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CS-23-392

Contract Tracking No. CM3680

CONTRACT FOR CONSTRUCTION OF CHESTER ROAD AND PAGES DAIRY ROAD INTERSECTION IMPROVEMENTS

THIS CONTRACT FOR CONSTRUCTION OF CHESTER ROAD AND PAGES DAIRY ROAD INTERSECTION IMPROVEMENTS (hereinafter "Contract") is made by and between the **Nassau County Board of County Commissioners** (hereinafter "Owner" or "County") and **REEVES CONSTRUCTION COMPANY** (hereinafter "Contractor")(hereinafter collectively "Parties") and in consideration of the mutual covenants hereinafter set forth, the Parties hereby agree as follows:

ARTICLE 1 - CONTRACT DOCUMENTS.

1.01 The Contract Documents which comprise the entire agreement between the Owner and the Contractor concerning the Project as described below shall consist of the following:

A. This Contract and any exhibits to this Contract;

B. The Invitation to Bid including, Addenda, the Contractor's Bid Response are attached hereto as Exhibit "A"; and

C. The following documents which may be delivered or issued on or after the Effective Date of the Contract and are not attached hereto:

1. Payment Bond
2. Performance Bond
3. Notice to Proceed
4. Work Change Directives
5. Change Orders
6. Certificate of Substantial Completion
7. Certificate of Final Inspection
8. Certificate of Engineer
9. Certificate of Final Completion
10. Contractor's release of Performance Bond
11. Construction Drawings and plans/As-Built Drawings
12. Contractor's Waiver of Lien (Partial)
13. Contractor's Waiver of Lien (Final and Complete)
14. Subcontractor/Contractor's Waiver of Lien (Final and Complete)
15. Consent of Surety to Final Payment
16. Contractor's Insurance Requirements, as set forth in the Bid Documents

1.02 The Contract Documents listed above are incorporated herein by this reference and made a part hereof.

1.03 There are no Contract Documents other than those listed in this Article 1.

1.04 The Contract Documents may only be amended, modified or supplemented in writing as provided in Article 3 of the Standard General Conditions as set forth in the Invitation to Bid.

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1.05 All the above-referenced Contract Documents are intended to be consistent with each other. Any ambiguity, conflict or inconsistency between the documents comprising the Contract Document shall be resolved according to the following order of precedence:

1. This Contract.
2. The Invitation to Bid.
3. Any additional Contract Documents not already referenced.

ARTICLE 2 - THE PROJECT.

2.01 The Project for which the Work under the Contract Documents is generally described as follows:

This project consists of milling and resurfacing, reconstruction and widening along Chester Road from David Hallman Parkway to approximately 700' north of Pages Dairy Road in Nassau County. The improvements on Chester Road from David Hallman Parkway to Courtney Isles Way will consist of milling and resurfacing and widening for bike keyholes. Chester Road from Courtney Isles Way to approximately 700' north of Pages Dairy will have reconstruction and widening from a two-lane rural road to a four-lane urban roadway with bike lanes and sidewalk. Improvements on Pages Dairy Road extend approximately 1400' west of Chester Road and include resurfacing and providing 5' paved shoulders. Signals will be added at the Chester Road and Pages Dairy Road intersection. The existing signals will be replaced at the Chester Road and David Hallman Parkway intersection. The work to be performed includes but is not limited to:

- Pavement Construction
- Earthwork
- Milling and resurfacing of existing asphalt pavement
- Constructing storm sewer pipes
- Pond construction
- Curb and gutter construction
- Clearing & Grubbing
- Placing performance turf and Sod
- Traffic maintenance and protection
- Installing Pavement Markings and signage
- Installing mast arms and signals

ARTICLE 3 - WORK.

3.01 Contractor shall complete all Work as specified in the Contract Documents for the Project in accordance with the construction drawings, specifications as contained in the Contract Documents.

ARTICLE 4 –ENGINEER OF RECORD.

4.01 The Project has been designed by Connelly & Wicker, Inc., who is to assume all duties and responsibilities and have the rights and authority assigned to Engineer of Record in the Contract Documents in connection with completion of the Work in accordance with the

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Contract Documents.

ARTICLE 5 - CONTRACT TIMES.

5.01 Time of the Essence.

A. All time limits for Milestones, if any, Substantial Completion, and completion and readiness for final payment as stated in the Contract Documents are of the essence of the Contract.

B. The Contractor hereby agrees to commence work under this Contract on a date to be specified in the written Notice to Proceed issued by the Owner and to fully complete the Project as specified in Section 5.02 of this Contract.

C. Under no condition shall a written Notice to Proceed be issued until Contractor has provided the Payment and Performance Bonds required in Article 1 of this Contract.

5.02 Days to Achieve Substantial Completion and Final Payment.

The Work will be substantially completed within **420 calendar days** from the Commencement Date. The Work shall be fully completed and deemed ready by the County for final completion within **45 calendar days** from the Substantial Completion Date. The Total Contract Time shall be the time period from the Commencement Date to the date of the Final Completion totaling **465 calendar days** (herein "Contract Time").

5.03 Liquidated Damages.

Contractor and the County recognize that time is of the essence of this Contract and that the County shall suffer financial loss if the Work is not completed within the times specified in Section 5.02 above, plus any extensions thereof allowed in accordance with Article 11 of the Standard General Conditions as set forth in the Invitation to Bid. The Parties also recognize the delays, expense, and difficulties involved in proving in legal or arbitration proceeding the actual loss suffered by the County if the Work is not completed on time. Accordingly, instead of requiring any such proof, the County and Contractor agree that as liquidated damages for delay (but not as a penalty) Contractor shall pay the County **$1,000.00** for each day that expires after the time specified in Section 5.02 above for Substantial Completion and until the Work is substantially complete. After Substantial Completion, if Contractor shall neglect, refuse, or fail to complete the remaining Work within the Contract Time or any proper extension thereof granted by the County, Contractor shall pay the County **$500.00** for each day that expires after the time specified in Section 5.02 above for completion and readiness for final payment until the Work is completed and ready for final payment.

ARTICLE 6 - CONTRACT PRICE.

6.01 The County shall pay Contractor for completion of the Work in accordance with the Contract Documents an amount in current funds equal to the sum of the amounts determined

pursuant to Article15 of the Standard General Conditions as set forth in the Invitation to Bid and the following:

A. For all Work, at the prices stated in the Contractor's Bid Response, attached hereto as an exhibit.

B. For all Unit Price Work, an amount equal to the sum of the established unit price for each separately identified item of Unit Price Work times the estimated quantity of that item as indicated in Contractor's Bid Response (attached hereto as an exhibit) for a Total of All Unit Prices of:

Seven Million, Five Hundred Forty-Nine Thousand, One Hundred Forty-Eight Dollars and Eighty-Eight Cents ($7,549,148.88).

C. Estimated quantities are not guaranteed, and determinations of actual quantities and classification are to be made by Engineer of Record as provided in Article 13.03 of the Standard General Conditions as set forth in the Invitation to Bid. The final payment for all Unit Price Work shall be an amount equal to the sum of the established unit price for each separately identified item of Unit Price Work times the actual completed and accepted quantity of each item. Unit prices have been computed as provided in the Standard General Conditions as set forth in the Invitation to Bid.

ARTICLE 7 - PAYMENT PROCEDURES.

7.01 Submittal and Processing of Payments.

A. Contractor shall submit Applications for Payment in accordance with Article 15 of the Standard General Conditions as set forth in the Invitation to Bid. Applications for Payment shall be processed by the County as provided in the Standard General Conditions as set forth in the Invitation to Bid and pursuant to provisions of Chapter 218, Florida Statutes, Florida Prompt Payment Act and Fla. Stat. Sect. 255.078.

7.02 Progress Payments; Retainage.

7.02.1 The County shall make progress payments on account of the Contract Price on the basis of Contractor's Applications for Payment once each month during performance of the Work as provided in Sections 7.02.2 and 7.02.3 below. All such payments shall be measured by the schedule of values established as provided in Article 15 of the Standard General Conditions as set forth in the Invitation to Bid (and in the case of Unit Price Work based on the number of units completed) or, in the event there is no schedule of values, as provided in the Standard General Conditions as set forth in the Invitation to Bid.

7.02.2 Prior to Substantial Completion progress payments shall be made in an amount equal to the percentage indicated below, but, in each case, less the aggregate of payments previously made and less such amounts as Engineer of Record may determine or the County may

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

withhold, including but not limited to liquidated damages, in accordance with Article 15 of the Standard General Conditions as set forth in the Invitation to Bid.

95% percent of the Work completed (with the balance being retainage)

95% percent of cost of materials and equipment not incorporated in the Work (with the balance being retainage).

7.02.3 Upon Substantial Completion the County shall pay an amount sufficient to increase total payments to Contractor to 95% percent of the Contract Price (with the balance being retainage), less such amounts as Engineer of Record shall determine or the County may withhold, for incomplete work and for other items in accordance with Article 15.01 of the Standard General Conditions as set forth in the Invitation to Bid.

7.03 Final Payment.

7.03.1 Upon final completion and acceptance of the Work in accordance with Article 15 of the Standard General Conditions as set forth in the Invitation to Bid, the County shall pay the remainder of the Contract Price as recommended by Engineer of Record as provided in said Article 15.06 of the Standard General Conditions as set forth in the Invitation to Bid.

7.03.2 Final Release of Retainage and acceptance of the project must be approved by the Board of County Commissioners.

ARTICLE 8 – INTEREST.

8.01 All moneys not paid when due as provided in Article 15 of the Standard General Conditions as set forth in the Invitation to Bid shall bear interest at the rate of 0 percent per annum.

ARTICLE 9 - CONTRACTOR'S REPRESENTATIONS.

9.01 In order to induce the County to enter into this Contract, Contractor makes the following representations:

A. Contractor has examined and carefully studied the Contract Documents and the other related data identified in the Contract Documents.

B. Contractor has visited the Site and has become familiar with and is satisfied as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.

C. Contractor is familiar with and is satisfied as to all federal, state, and local Laws and Regulations that may affect cost, progress, and performance of the Work.

D. Contractor has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or contiguous to the Site and all drawings of physical

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conditions in or relating to existing surface or subsurface structures at or contiguous to the Site (except Underground Facilities) which have been identified in the Supplementary Conditions as provided in Article 5.03 of the Standard General Conditions as set forth in the Invitation to Bid and (2) reports and drawings of a Hazardous Environmental Condition, if any, at the Site which has been identified in the Supplementary Conditions as provided in Article 5.06 of the Standard General Conditions as set forth in the Invitation to Bid.

E. Contractor has obtained and carefully studied (or assumes responsibility for having done so) all additional or supplementary examinations, investigations, explorations, tests, studies, and data concerning conditions (surface, subsurface, and Underground Facilities) at or contiguous to the Site which may affect cost, progress, or performance of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by Contractor, including applying the specific means, methods, techniques, sequences, and procedures of construction, if any, expressly required by the Bidding Documents, and safety precautions and programs incident thereto.

F. Contractor does not consider that any additional examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract Documents.

G. Contractor is aware of the general nature of work to be performed by the County and others at the Site that relates to the Work as indicated in the Contract Documents.

H. Contractor has correlated the information known to Contractor, information and observations obtained from visits to the Site, reports and drawings identified in the Contract Documents, and all additional examinations, investigations, explorations, tests, studies, and data with the Contract Documents.

I. Contractor has given Engineer and Engineer of Record written notice of all conflicts, errors, ambiguities, or discrepancies that Contractor has discovered in the Contract Documents, and the written resolution thereof by Engineer of Record is acceptable to Contractor.

J. The Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance of the Work for the Project.

K. Pursuant to Section 255.099, Florida Statutes, Contractor agrees to give preference to the employment of Florida State residents in the performance of the Work on this Project if the Florida State residents have substantially equal qualifications to those of nonresidents. As used in this section, the term "substantially equal qualifications" means the qualifications of two or more persons among whom the employer cannot make a reasonable determination that the qualifications held by one person are better suited for the position that the

qualifications held by the other person or persons. A Contractor required to employ Florida State residents must contact the Agency for Workforce Innovation to post the Contractor's employment needs in the Florida State job bank system.

ARTICLE 10 – MISCELLANEOUS.

10.01 Terms. The terms in this Contract shall have the meanings indicated in the Standard General Conditions and the Supplementary Conditions as set forth in the Invitation to Bid.

10.02 Assignment of Contract. No assignment by a party hereto of any rights under or interests in the Contract shall be binding on another party hereto without the written consent of the party sought to be bound; and, specifically but without limitation, moneys that may become due and moneys that are due may not be assigned without such consent (except to the extent that the effect of this restriction may be limited by law), and unless specifically stated to the contrary in any written consent to an assignment, no assignment shall release or discharge the assignor from any duty or responsibility under the Contract Documents.

10.03 Successors and Assigns. The County and Contractor each binds itself, its partners, successors, assigns, and legal representatives to the other party hereto, in respect to all covenants, agreements and obligations in the Contract Documents.

10.04 Severability. Any provision or part of the Contract Documents held to be void or unenforceable under any Law or regulation shall be deemed stricken, and all remaining provisions shall continue to be valid and binding upon the County and Contractor, who agree that the Contract Documents shall be reformed to replace such stricken provision or part thereof with a valid and enforceable provision that comes as close as possible to expressing the intention of the stricken provision.

10.05 Effective Date. This Contract shall be effective on the date on which the Contract is signed and delivered by the last of the two parties to sign and deliver (which is the Effective Date of the Contract).

10.06 Governing Law and Venue. This Contract shall be interpreted and construed in accordance with the laws of the Statue of Florida with Venue for any action brought in Nassau County, Florida.

10.07 Public Records. The Owner is a public agency subject to Chapter 119, Florida Statutes. **IF THE CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONTRACTOR'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT (904) 530-6090, RECORDS@NASSAUCOUNTYFL.COM, 96135 NASSAU PLACE, SUITE 6, YULEE, FLORIDA 32097.** Under this Contract, to the extent that the Contractor is providing services to the Owner, and pursuant to Section 119.0701, Florida Statutes, the Contractor shall:

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

A. Keep and maintain public records required by the Owner to perform the service.

B. Upon request from the Owner's custodian of public records, provide the Owner with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in this chapter or as otherwise provided by law.

C. Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the Contract term and following completion of the Contract if the Contractor does not transfer the records to the Owner.

D. Upon completion of the Contract, transfer, at no cost, to the Owner all public records in possession of the Contractor or keep and maintain public records required by the Owner to perform the service. If the Contractor transfers all public records to the Owner upon completion of the Contract, the Contractor shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the Contractor keeps and maintains public records upon completion of the Contract, the Contractor shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the Owner, upon request from the Owner's custodian of public records, in a format that is compatible with the information technology systems of the Owner.

E. A request to inspect or copy public records relating to the Owner's Contract shall be made directly to the Owner's Custodian of Public Records. If the Owner does not possess the requested records, the Owner shall immediately notify the Contractor of the request for records and the Contractor shall provide the records to the Owner or allow the records to be inspected or copied within a reasonable time. If the Contractor does not comply with the Owner's request for records, the Owner shall enforce the Contract provisions in accordance with the Contract. If the Contractor which fails to provide public records to the Owner County within a reasonable time may also be subject to penalties as provided under Section 119.10, Florida Statutes.

F. If a civil action is filed against the Contractor to compel production of public records relating to the Contract, the Court shall assess and award against the Contractor the reasonable costs of enforcement, including reasonable attorney fees if:

(1) The Court determines that the Contractor unlawfully refused to comply with the public records request within a reasonable time; and

(2) At least eight (8) business days before filing the action, the plaintiff provided written notice of the public records request, including a statement that the Contractor has not complied with the request, to the Owner and to the Contractor.

(3) A notice complies with this Section if it is sent to the Owner's custodian of public records and to the Contractor at the Contractor's address listed on its Contract with the Owner or to the Contractor's registered agent.

(4) If the Contractor complies with a public records request within eight (8) business days after the notice is sent, the Contractor is not liable for the reasonable costs of enforcement.

H. In reference to any public records requested under this Contract, the Contractor shall identify and mark specifically any information which the Contractor considers confidential and/or proprietary, inclusive of trade secrets as defined in Section 812.081, Florida Statutes, and which the Contractor believes to be exempt from disclosure, citing specifically the applicable exempting law and including a brief written explanation as to why the cited Statute is applicable to the information claimed as confidential and/or proprietary information. All materials shall be segregated and clearly identified as "EXEMPT FROM PUBLIC DISCLOSURE."

I. In conjunction with the confidential and/or proprietary information designation, the Contractor acknowledges and agrees that after notice from County, the Contractor shall respond to a notice from the County immediately, but no later than 10 calendar days from the date of notification or the Contractor shall be deemed to have waived and consented to the release of the confidential and/or proprietary designated materials.

J. The Contractor further agrees that by designation of the confidential/proprietary material, the Contractor shall defend the County (and its employees, agents and elected and appointed officials) against all claims and actions (whether or not a lawsuit is commenced) related to the Contractor's designation of the material as exempt from public disclosure and to hold harmless the County (and its employees, agents and elected and appointed officials) from any award to a plaintiff for damages, costs and attorneys' fees, incurred by the County by reason of any claim or action related to the Contractor's designation of material as exempt from public disclosure.

ARTICLE 11 – INDEMNIFICATION.

11.01 To the extent allowed by Section 725.06, Florida Statutes, the Contractor shall indemnify and hold harmless the County and its officers and employees from liabilities, damages, losses, and costs, including but not limited to, reasonable attorneys' fees, to the extent caused by the negligence, recklessness, or intentionally wrongful conduct of the Contractor and other persons employed or utilized by the Contractor, in the performance of the Contract. It is the specific intent of the Parties hereto that the foregoing indemnification complies with Section 725.06, Florida Statutes, as amended. Contractor expressly agrees that it will not claim, and waives any claim, that this indemnification violates Section 725.06, Florida Statutes, as amended. Nothing contained in the foregoing indemnification shall be construed as a waiver of any immunity or limitation of liability the County may have under the doctrine of sovereign immunity or Section 768.28, Florida Statutes. Nothing herein shall be construed as consent by County to be sued by third parties in any matter arising out of any contract. The obligations contained in this provision shall survive termination of this Contract and shall not be limited by the amount of any insurance required to be obtained or maintained under this Contract.

ARTICLE 12- EMPLOYMENT ELIGIBILITY.

12.01 Contractor must comply with Section 448.095, Florida Statutes, and use the United States Department of Homeland Security's E-Verify system ("E-Verify") to verify the employment eligibility of all persons hired by Contractor during the term of this Agreement to work in Florida. Additionally, if Contractor uses subcontractors to perform any portion of the Work (under this Agreement), Contractor must include a requirement in the subcontractor's contract that the subcontractor use E-Verify to verify the employment eligibility of all persons hired by subcontractor to perform any such portion of the Work. Contractor must include a requirement

in the subcontractor's contract that the subcontractor use E-Verify to verify the employment eligibility of all persons hired by subcontractor to perform any such portion of the work. Answers to questions regarding E-Verify as well as instructions on enrollment may be found at the E-Verify website: www.uscis.gov/e-verify.

[The remainder of this page left intentionally blank.]

IN WITNESS WHEREOF, the County and Contractor have signed this Contract in triplicate. One counterpart each has been delivered to the County, Contractor, and Engineer of Record. All portions of the Contract Documents have been signed or identified by the County and Contractor or identified by Engineer of Record on their behalf.

BOARD OF COUNTY COMMISSIONERS
NASSAU COUNTY, FLORIDA

By: John F. Martin
Its: Chairman
Date: 6-3-24

REEVES CONSTRUCTION COMPANY

By: Scott Newman
Its: Region Manager/Asst. Secretary
Date: 5/9/2024
Address: 249 Industry Place
St. Augustine, FL 32095

ATTEST TO CHAIR'S SIGNATURE

John A. Crawford, Ex-Officio Clerk

Date: 6-3-24

Approved as to form by County Attorney

Denise C. May
Denise C. May, County Attorney

Date: 5/13/2024

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

EXHIBIT "A"

CHESTER ROAD INTERSECTION IMPROVEMENTS

INVITATION TO BID (ITB)

Bid No. NC23-064

Nassau County
Board of County Commissioners
Nassau County, Florida

PROJECT MANUAL

CONTAINING

BIDDING REQUIREMENTS

CONTRACTOR'S PROPOSAL AGREEMENT

GENERAL CONDITIONS

SUPPLEMENTARY CONDITIONS AND SPECIFICATIONS

December 2023

Prepared By: Connelly & Wicker Inc.
10600 Skinner Lake Dr. | Suite 500 | Jacksonville, FL 32246
Certificate of Authorization No. 3650

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

CHESTER ROAD INTERSECTIO IMPROVEMENTS

TABLE OF CONTENTS

DIVISION 00 - **PROCUREMENT AND CONTRACTING REQUIREMENTS**
Section 00 11 10 - Advertisement for Bids
Section 00 21 15 - Instructions to Bidders
Section 00 41 15 - Bid Form
Section 00 43 15 - Bid Bond
Section 00 43 35 - Tabulation of Subcontractors & Suppliers
Section 00 44 55 - Florida Trench Safety Act Certification
Section 00 45 13 - Statement of Bidder's Qualifications
Section 00 45 19 – Non-collusion Affidavit
Section 00 45 20 - Drug-Free Workplace Certificate
Section 00 45 30 - Sworn Statement under Section 287.133(3)(a), Florida Statutes, on Public Entity Crimes
Section 00 45 35 - Bidder's Statement of Disputes, Litigation, Arbitration, and Surety Completion, Last Three (3) Years
Section 00 45 40 – E-Verify Affidavit of Compliance
Section 00 51 00 - Notice of Award
Section 00 52 15 - Agreement
Section 00 55 00 - Notice to Proceed
Section 00 61 15 - Performance Bond
Section 00 61 16 - Payment Bond
Section 00 62 76 - Application and Certificate for Progress Payment
Section 00 63 15 - Contractor's Request for Information
Section 00 63 36 - Field Order
Section 00 63 49 - Work Change Directive
Section 00 63 63 - Change Order Request Form
Section 00 65 16 - Certificate of Substantial Completion
Section 00 65 19 - Certificate of Final Completion
Section 00 65 20 - Waiver and Release of Lien upon Progress Payment
Section 00 65 21 - Waiver and Release of Lien upon Final Payment
Section 00 72 15 - General Conditions
Section 00 73 15 - Supplementary Conditions

DIVISION 01 - **GENERAL REQUIREMENTS**
Section 01 11 00 - Summary of Work
Section 01 22 50 - Measurement and Payment
Section 01 31 19 - Project Meetings
Section 01 33 00 - Submittal Procedures
Section 01 41 23 - Permits and Fees
Section 01 45 00 - Quality Control
Section 01 50 00 - Temporary Facilities and Controls

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

Section 01 55 26 - Traffic Control
Section 01 60 00 - Product Requirements
Section 01 71 23 - Field Engineering
Section 01 77 00 - Closeout Procedures

APPENDIX A
Geotechnical Report

APPENDIX B
Nassau County - Road Closure Policy

APPENDIX C
Nassau County As-Builts Requirement Check List

APPENDIX D
Plans and Drawings

APPENDIX E
Subsurface Utility Locates

APPENDIX F
Permits

APPENDIX G
JEA Contract Terms

APPENDIX H
JEA Payment and Performance Bonds

APPENDIX I
JEA Technical Specifications

APPENDIX J
General Information and Insurance Requirements

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

DIVISION 00

PROCUREMENT & CONTRACTING REQUIREMENTS

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

SECTION 00 11 10

ADVERTISEMENT FOR BIDS

PROJECT: **Chester Road Intersection Improvements**
Bid Number NC23-064
Nassau County, Florida

OWNER: **Board of County Commissioners**
Nassau County, Florida
96135 Nassau Place, Suite 1
Yulee, Florida 32097

ENGINEER: **Connelly & Wicker Inc.**
10060 Skinner Lake Drive, Suite 500
Jacksonville, FL 32246

NON-MANDATORY PRE-BID CONFERENCE: JANUARY 3 AT 10:00 AM EST
LOCATION OF NON-MANDATORY PRE-BID CONFERENCE:

Nassau County Board of County
Commissioners Chambers
96135 Nassau Place,
Yulee, FL 32097

BID DEADLINE: January 17, 2024 AT 10:00 AM EST

BID OPENING: January 17, 2024 AT 10:00 AM EST, OR SOON THEREAFTER
Judicial Annex
Office of Ex-Officio Clerk
76347 Veterans Way, Suite 456
Yulee, Florida 32097

1.0 WORK DESCRIPTION

This project consists of milling and resurfacing, reconstruction and widening along Chester Road from David Hallman Parkway to approximately 700’ north of Pages Dairy Road in Nassau County. The improvements on Chester Road from David Hallman Parkway to Courtney Isles Way will consist of milling and resurfacing and widening for bike keyholes. Chester Road from Courtney Isles Way to approximately 700’ north of Pages Dairy will have reconstruction and widening from a two-lane rural road to a four-lane urban roadway with bike lanes and sidewalk.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

Improvements on Pages Dairy Road extend approximately 1400' west of Chester Road and include resurfacing and providing 5' paved shoulders. Signals will be added at the Chester Road and Pages Dairy Road intersection. The existing signals will be replaced at the Chester Road and David Hallman Parkway intersection. The work to be performed includes but is not limited to:

- Pavement Construction
- Earthwork
- Milling and resurfacing of existing asphalt pavement
- Constructing storm sewer pipes
- Pond construction
- Curb and gutter construction
- Clearing & Grubbing
- Placing performance turf and Sod
- Traffic maintenance and protection
- Installing Pavement Markings and signage
- Installing mast arms and signals

All work shall be in accordance with the construction drawings, specifications, and contract documents. **BIDDERS MUST BE FDOT PRE-QUALIFIED FOR ALL CATEGORIES OF WORK REQUIRED FOR THIS PROJECT.**

2.0 RECEIPT OF BIDS

ALL BIDDERS must be qualified for the type of work for which the BID is submitted. Bidders should note that all bids must be submitted via PlanetBids (https://pbsystem.planetbids.com/portal/49083/portal-home).

The documents are available free-of-charge on PlanetBids (https://pbsystem.planetbids.com/portal/49083/portal-home).

3.0 CONTRACT DOCUMENTS

The CONTRACT DOCUMENTS, consisting of ADVERTISEMENT FOR BIDS, INFORMATION FOR BIDDERS, BID, BID BOND, AGREEMENT, GENERAL CONDITIONS, SUPPLEMENTAL GENERAL CONDITIONS (IF APPLICABLE), PAYMENT BOND, PERFORMANCE BOND, NOTICE OF AWARD, NOTICE TO PROCEED, CHANGE ORDER, DRAWINGS, SPECIFICATIONS, SPECIAL CONDITIONS and ADDENDA, may be examined by submitting a request via https:// pbsystem.planetbids.com/portal/49083/portal-home

The bid documents are available free-of-charge on PlanetBids at https://pbsystem.planetbids.com/portal/49083/portal-home.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

4.0 BONDS (BID, PERFORMANCE AND PAYMENT)

BIDS must be accompanied by a Certified Check or BID BOND of a reputable bonding company authorized to do business in the State of Florida in the amount of five percent (5%) of the total amount of the BID to guarantee that the Contractor will enter into a Contract in the form prescribed and will provide the required bonds. **A copy of the Bid bond must be included with the submission and the original must be sent to the Clerk's Office at the address below with attention to this Bid Number by the Bid Opening.**

Attn: NC23-064-ITB
Office of the Ex-Officio Clerk
76347 Veterans Way
Yulee, Florida, 32097

The successful BIDDER(s) must provide an acceptable contract PERFORMANCE BOND in the amount of one hundred percent (100%) of the Contract Price, and a PAYMENT BOND in the amount of one hundred percent (100%) of the Contract Price.

5.0 BID WITHDRAWAL

No BIDS may be withdrawn for a period of one-hundred and twenty (120) days after closing time scheduled for receipt of BIDS.

6.0 RIGHT TO REJECT

The OWNER reserves the right to reject any and all BIDS and waive all informalities in whole or in part, with or without cause, and/or to accept the bid that, in its best judgment, will be for the best interest of Nassau County, Florida.

7.0 PUBLIC ENTITY CRIME

A person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a proposal/bid on a contract to provide any goods or services to a public entity, may not submit a proposal/bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit a proposal/bid on leases or real property to a public entity, may not be awarded or perform work as a contractor, supplier, subcontractor or consultant under contract with any public entity, and may not transact business with any public entity in excess of the threshold amount provided in Section 287.017. Florida Statutes, for Category Two for a period of thirty-six months from the date of being placed on the convicted vendor list.

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8.0 INFORMATION CONTACT

For further information or clarification, contact Manager Name, Contract/Purchasing Manager at (904) 530-6040.

9.0 DISABILITIES REQUIRING ACCOMMODATION

Persons with disabilities requiring accommodation in order to participate in this program or activity should contact the Office of the Ex-Officio Clerk to the Board of County Commissioners at (904) 548-4600 or Florida Relay Service at 1-800-955-8770 (v) or 1-800-955-8771 (TDD) at least seventy-two hours in advance to request such accommodation.

10.0 PUBLIC MEETINGS AND PUBLIC RECORDS LAWS FOR GOVERNMENT CONTRACTING

Effective July 1, 2012

Pursuant to recent changes in Florida Statutes Chapter 119.071 (General Exemptions from inspection or copying of public records) the bid opening process is temporarily exempt from Public Records requirements, except bids received pursuant to a competitive solicitation for construction or repairs on a public building or public work. Information may be released to the public once the Board provides a notice of intended decision or 30 days after the bid opening, whichever is earlier.

Pursuant to recent changes in Florida Statutes Chapter 286.0113 (General exemptions from public meeting requirements) any portion of a meeting in which negotiations with a vendor is conducted as part of the “competitive negotiation” process at which a vendor makes an oral presentation or answers questions as part of the “competitive solicitation” process are exempt from public meeting requirements until the Board provides notice of an intended decision or until 30 days after bid opening, whichever is earlier. Any portion of a committee meeting at which negotiation strategies are discussed is exempt. A complete record shall be made of any portion of an exempt meeting; no portion may be held off the record. The recording of and any records presented at the exempt meeting are exempt from FS119.071 until such time as the board provides notice of an intended decision or 30 days after opening the bids, proposals or final replies.

Please refer to Florida Statutes Chapter 119.071, Chapter 255.0518 and Chapter 286.0113 for further details.

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NASSAU COUNTY BOARD OF COUNTY COMMISSIONERS
Kylnt Farmer, Chair

ATTEST:

John A. Crawford
Its: Ex-Officio Clerk

An Affirmative Action/Equal Opportunity Employer

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SECTION 00 21 15

INSTRUCTIONS TO BIDDERS

ARTICLE 1 DEFINED TERMS

1 .01 Terms used in these Instructions to Bidders will have the meanings indicated in the General Conditions and Supplementary Conditions. Additional terms used in these Instructions to Bidders have the meanings indicated below which are applicable to both the singular and plural thereof:

A. Bidder - The individual or entity who submits a Bid directly to the County.

B. Issuing Office - The office from which the Bidding Documents are to be issued and where the bidding procedures are to be administered.

C. Successful Bidder - The lowest responsible Bidder submitting a responsive Bid to whom County (on basis of County's evaluation as herein provided) makes an award.

ARTICLE 2 COPIES OF BIDDING DOCUMENTS

2.01 Complete sets of Bidding Documents in the number and for the payment sum, if any, stated in the Advertisement or Invitation to Bid may be obtained from the Issuing Office.

2.02 Complete sets of Bidding Documents must be used in preparing Bids; neither the County nor Engineer of Record assumes any responsibility for errors or misinterpretations resulting from the use of incomplete sets of Bidding Documents.

2.03 The County and Engineer of Record in making copies of Bidding Documents available on the above terms do so only for the purpose of obtaining Bids for the Work and do not confer a license or grant for any other use.

ARTICLE 3 QUALIFICATIONS OF BIDDERS

3.01 The County may make such investigations as necessary to determine the ability of the Bidder to perform the Work, and the Bidder shall furnish to the County all such information and data for this purpose as the County may request. The County reserves the right to reject any bid if the evidence submitted by, or investigation of, such Bidder fails to satisfy the County that such Bidder is properly qualified to carry out the obligations of the contract and to complete the work contemplated therein. Conditional bids will not be accepted.

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3.02 To demonstrate Bidder's qualifications to perform the Work, Bidder shall submit written evidence such as financial data, previous experience, present commitments, and such other data as may be called for in Bidder's Qualification Statement.

ARTICLE 4 EXAMINATION OF BIDDING DOCUMENTS, OTHER RELATED DATA, AND SITE

4.01 Subsurface and Physical Conditions

A. The Supplementary Conditions identify:

1. Those reports or explorations and tests of subsurface conditions at or contiguous to the Site that Engineer of Record has used in preparing the Bidding Documents.

2. Those drawings of physical conditions in or relating to existing surface and subsurface structures at or contiguous to the Site (except Underground Facilities) that Engineer of Record has used in preparing the Bidding Documents.

B. Copies of the reports and drawings referenced in paragraph 4.01.A will be made available by the County to any Bidder on request. Those reports and drawings are not part of the Contract Documents, but the "technical data" contained therein upon which Bidder is entitled to rely as provided in paragraph 4.02 of the General Conditions has been identified and established in paragraph 4.02 of the Supplementary Conditions. Bidder is responsible for any interpretation or conclusion Bidder draws from any "technical data" or any other data, interpretations, opinions, or information contained in such reports or shown or indicated in such drawings.

4.02 Underground Facilities

Information and data shown or indicated in the Bidding Documents with respect to existing Underground Facilities at or contiguous to the Site is based upon information and data furnished to the County and Engineer of Record by the Utility Owner of such Underground Facilities, including the County, or others.

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4.03 Hazardous Environmental Conditions

A. The Supplementary Conditions identify those reports and drawings relating to a Hazardous Environmental Condition identified at the Site, if any, that Engineer of Record has used in preparing the Bidding Documents.

B. Copies of reports and drawings referenced in paragraph 4.03.A will be made available by the County to any Bidder on request. Those reports and drawings are not part of the Contract Documents, but the "technical data" contained therein upon which Bidder is entitled to rely as provided in paragraph 4.06 of the General Conditions has been identified and established in paragraph 4.06 of the Supplementary Conditions. Bidder is responsible for any interpretation or conclusion Bidder draws from any "technical data" or any other data, interpretations, opinions, or information contained in such reports or shown or indicated in such drawings.

4.04 Provisions concerning responsibilities for the adequacy of data furnished to prospective Bidders with respect to subsurface conditions other physical conditions and Underground Facilities, and possible changes to Bidding Documents due to offering or unanticipated conditions appear in paragraphs 4.02, 4.03, and 4.04 of the General Conditions. Provisions concerning responsibilities for the adequacy of data furnished to prospective Bidders with respect to a Hazardous Environmental Condition at the Site, if any, and possible changes in the Contract Documents due to any Hazardous Environmental Condition uncovered or revealed at the Site which was not shown or indicated in the Drawings and Specifications or identified in the Contract Documents to be within the scope of Work appear in paragraph 4.06 of the General Conditions.

4.05 On request, the County will provide Bidder access to the Site to conduct such examinations, investigations, explorations, tests, and studies Bidder deems necessary for submission of a Bid. Bidder shall fill all holes and clean up and restore the Site to its former condition upon completion of such explorations, investigations, tests, and studies.

4.06 Reference is made to Article 7 of the General Conditions for the identification of the general nature of other work that is to be performed at the Site by the County or others (such as utilities and other prime contractors) that relates to the Work for which a Bid is to be submitted. On request, the County will provide to each Bidder for examination access to or copies of Contract Documents (other than portions thereof related to price) for such other work.

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4.07 It is the responsibility of each Bidder before submitting a Bid to:

A. Examine and carefully study the Bidding Documents, including any Addenda and other related data identified in the Bidding Documents;

B. Visit the site to become familiar with and satisfy Bidder as to the general, local and Site conditions that may affect cost, progress, and performance of the Work;

C. Become familiar with and satisfy Bidder as to all federal, state, and local Laws and Regulations that may affect cost, progress, or performance of the Work;

D. Carefully study all reports of explorations and tests or subsurface conditions at or contiguous to the Site and all drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the Site (except Underground Facilities) which have been identified in the Supplementary Conditions as provided in paragraph 4.02 of the General Conditions, and carefully study all reports and drawings or a Hazardous Environmental Condition, if any, at the Site which have been identified in the Supplementary Conditions as provided in paragraph 4.06 of the General Conditions;

E. Obtain and carefully study (or assume responsibility for doing so) all additional or supplementary examinations, investigations, explorations, tests, studies, and data concerning conditions (surface, subsurface, and Underground Facilities) at or contiguous to the Site which may affect cost, progress, or performance of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, including any specific means, methods, techniques, sequences, and procedures of construction expressly required by the Bidding Documents, and safety precautions and programs incident thereto;

F. Agree at the time of submitting its Bid that no further examinations, investigations. explorations, tests, studies, or data are necessary for the determination of its Bid for performance of the Work at the price bid and within the times and in accordance with the other terms and conditions of the Bidding Documents;

G. Become aware of the general nature of the work to be performed by the County and others at the Site that relates to the Work as indicated in the Bidding Documents;

H. Correlate the information known to Bidder, information and observations obtained from visit to Site, reports and drawings identified in the Bidding Documents, and all

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additional examinations, investigations, explorations, tests, studies, and data with the Bidding Documents;

I. Promptly give Engineer of Record written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder discovers in the Bidding Documents and confirm that the written resolution thereof by Engineer of Record is acceptable to Bidder and;

J. Determine that the Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance of Work.

4.08 Each bidder must inform himself fully of the conditions relating to the construction of the project and the employment of labor thereon. Failure to do so will not relieve a successful bidder of his obligation to furnish all material and labor necessary to carry out the provisions of this contract. Insofar as possible the contractor, in carrying out the work, must employ such methods or means as will not cause any interruption of or interference with the work of any other contractor.

4.09 The submission of a Bid will constitute an incontrovertible representation by Bidder that Bidder has complied with every requirement of this Article 4, that without exception the Bid is premised upon performing and furnishing the Work required by the Bidding Documents and applying any specific means, methods, techniques, sequences and procedures of construction that may be shown or indicated or expressly required by the Bidding Documents, that Bidder had given Engineer of Record written notice of all conflicts, errors, ambiguities and discrepancies that Bidder has discovered in the Bidding Documents and written resolutions thereof by Engineer of Record are acceptable to Bidder, and that the Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performing and furnishing the Work.

ARTICLE 5 PRE-BID CONFERENCE

5.01 A non-mandatory pre-bid conference will be held for this project. See the Advertisement for Bids for details of date, time and location. <u>All potential Bidders are encouraged to attend.</u>

ARTICLE 6 SITE AND OTHER AREAS

6.01 The Site is identified in the Bidding Documents. All additional lands and access thereto required for temporary construction facilities, construction equipment, or storage of materials and equipment to be incorporated in the Work are to be obtained and paid for by Contractor. Easements for permanent structures or permanent changes in existing facilities

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

are to be obtained and paid for by the County unless otherwise provided in the Bidding Documents.

ARTICLE 7 INTERPRETATIONS AND ADDENDA

7.01 No interpretation of the meaning of the plans, specification or other pre-bid documents will be made to any bidder orally. Bidders are required to refrain from contacting any County Departments or Divisions about this solicitation during the solicitation process. ANY QUESTIONS FROM BIDDERS MUST BE RECEIVED VIA THE COUNTY'S ELECTRONIC BIDDING PLATFORM - https://pbsystem.planetbids.com/portal/49083/portal-home. Failure to comply with this requirement may result in disqualification of your response and egregious and/or repeated violations may result in debarment from future solicitations, contracts, or other business with the County. All questions must be submitted on PlanetBids by **January 5, 2024 @ 4:00 PM.**

7.02 Any and all such interpretations and any supplemental instructions will be in the form of written addenda not later than 72 hours prior to the date fixed for the opening of bids.

7.03 Addenda may be issued to clarify, correct, or change the Bidding Documents as deemed advisable by the County or Engineer of Record.

7.04 It is the Bidder's responsibility to ensure that all addenda were received. The bidder should verify with the designated contact person prior to submitting a bid that all addenda have been received. Bidders are required to acknowledge the number of addenda received on the Bid Form, section 3.01.A. Failure of any bidder to receive any such addendum or interpretation shall not relieve such bidder from any obligation under the bid as submitted. All addenda so issued shall become part of the contract documents.

ARTICLE 8 BID SECURITY

8.01 A Bid must be accompanied by cash, certified check of the Bidder, or a bid bond prepared on the form of bid bond attached hereto, duly executed by the Bidder as principal and having as surety thereon a surety company approved by the County, in the amount of 5% of the Bid. Cash, checks and bid bonds will be returned to all except the three lowest bidders. After award by the Board, the remaining cash checks or bid bonds will be returned promptly after the County and the accepted bidder have executed the contract, or, if no award has been made within 30 days after the date of the opening of Bids, upon demand of the Bidder at any time thereafter, so long as notification of the acceptance of the Bid has not taken place.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

8.02 Bid security of other Bidders whom the County believes do not have a reasonable chance of receiving the award will be returned within seven days after the Bid opening.

ARTICLE 9 CONTRACT TIMES

9.01 The number of days within which, or the dates by which, the Work is to be (a) Substantially Completed and (b) also completed and ready for final payment are set forth in the Bid Form.

ARTICLE 10 LIQUIDATED DAMAGES

10.01 The successful bidder, upon failure or refusal to execute and deliver the contract and bonds required within 10 days after receipt of notice of the acceptance of the bid, shall forfeit to the County, as liquidated damages for such failure or refusal, the security deposited with the bid.

ARTICLE 11 SUBSTITUTE AND "OR-EQUAL" ITEMS

11.01 The Contract, if awarded, will be on the basis of materials and equipment specified or described in the Bidding Documents without consideration of possible substitute "or-equal" items. Whenever it is specified or described in the Bidding Documents that a substitute or "or-equal" item of material or equipment may be furnished or used by if acceptable to Engineer of Record, application for such acceptance will not be considered by Engineer of Record until after the Effective Date of the Agreement. The procedure for submission of any such application by and consideration by Engineer of Record is set forth in the General Conditions and may be supplemented in the General Requirements.

ARTICLE 12 SUBCONTRACTORS, SUPPLIERS AND OTHERS

12.01 If the Supplementary Conditions require the identity of certain Subcontractors, Suppliers, individuals, or entities to be submitted to the County in advance of a specified date prior to the Effective Date of the Agreement, the apparent Successful Bidder, and any other Bidder so requested, shall within five days after Bid opening, submit to the County a list of all such Subcontractors, Suppliers, individuals, or entities proposed for those portions of the Work for which such identification is required. Such list shall be accompanied by an experience statement with pertinent information regarding similar projects and other evidence of qualification for each Subcontractor, Suppliers, individuals, or entity if requested by the County. If the County or Engineer of Record, after due investigation, has reasonable objection to any proposed Subcontractor, Supplier, individual or entity, the County may, before the Notice of Award is given, request apparent Successful Bidder to submit a substitute, without an increase in the Bid.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

12.02 If apparent Successful Bidder declines to make any such substitution, the County may award the Contract to the next lowest Bidder that proposes to use acceptable Subcontractors, Suppliers, individuals, or entities. Declining to make requested substitutions will not constitute grounds for forfeiture of the Bid security of any Bidder. Any Subcontractor, Supplier, individual, or entity so listed and against which the County or Engineer of Record makes no written objection prior to giving of the Notice of Award will be deemed acceptable to the County and Engineer of Record subject to revocation of such acceptance after Effective Date of the Agreement as provided in paragraph 6.06 of the General Conditions.

12.03 Contractor shall not be required to employ any Subcontractor, Supplier, individual, or entity against whom Contractor has reasonable objection.

ARTICLE 13 PREPARATION OF BID

13.01 The Bid Form is included in the Bidding Documents.

13.02 Each bid must be submitted in a sealed envelope bearing on the outside the name of the bidder, his/her address, and the name of the project for which the bid is submitted. If forwarded by mail, the sealed envelope containing the bid must be enclosed in another envelope addressed as specified in the bid form.

13.03 A Bid by a corporation shall be executed in the corporate name by the president or a vice-president or other corporate officer accompanied by evidence of authority to sign. The corporate seal shall be affixed and attested by the secretary or an assistant secretary. The corporate address and state of incorporation shall be shown on the form.

13.04 A Bid by a partnership shall be executed in the partnership name and signed by a partner (whose title must appear under the signature), accompanied by evidence of authority to sign. The official address of the partnership shall be shown below the signature.

13.05 A Bid by a limited liability company shall be executed in the name of the firm by a member and accompanied by evidence of authority to sign. The state of formation of the firm and the official address of the firm must be shown below the signature.

13.06 A Bid by an individual shall show the Bidder's name and official address.

13.07 A Bid by a joint venture shall be executed by each joint venture in the manner indicated on the Bid Form. The official address of the joint venture must be shown below the signature.

13.08 All names shall be typed or printed in ink below the signatures.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

13.09 The Bid shall contain an acknowledgement of receipt of all Addenda, the numbers of which shall be filled in on the Bid Form.

13.10 The address and telephone number for communications regarding the Bid shall be shown

13.11 The Bid shall contain evidence of Bidder's authority and qualification to do business in the State of Florida. The Bidder shall also be a state-certified Contractor in good standing and hold current registration with the Florida Construction Industry Licensing Board of the State Department of Professional Regulation. The type of license must be in a class that is related to the general nature of the construction to be performed on this project. The Bidder's State Contractor's license number for the State of the project shall be shown on the Bid Form.

ARTICLE 14 BASIS OF BID; EVALUATION OF BIDS

14.01 Unit Price

A. Bidders shall submit a Bid on a unit price basis for each item of Work listed in the Base Bid schedule. Bidders shall also submit lump sum prices for each of the items comprising the mandatory Bid Additives (or Alternates), if any.

B. The total of all estimated prices will be determined as the sum of the products of the estimated quantity of each item and the unit price Bid for the item, including any combination of the Bid Additive as selected by the County. The final quantities and Contract Price will be determined in accordance with paragraph 11.03 of the General Terms and Conditions.

B. Discrepancies between the multiplication or units or Work and the unit prices will be resolved in favor of the unit prices. Discrepancies between the indicated sum of any column of figures and the correct sum thereof will be resolved in favor of the correct sum. Discrepancies between words and figures will be resolved in favor of the words.

D. The County reserves the right to evaluate the bids on any base bid- alternate/add on combination that is in the best interest of the County.

14.02 The Bid price shall include such amounts as the Bidder deems proper for overhead and profit on account of cash allowances, if any, named in the Contract Documents as provided in paragraph 11.02 of the General Conditions.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

ARTICLE 15 SUBMITTAL OF BID

15.01 Each prospective Bidder is furnished one copy of the Bidding Documents.

15.02 A bid shall be submitted **one original and two copies**, no later than the date and time prescribed and at the place indicated in the Advertisement or Invitation to Bid and shall be enclosed in an opaque sealed envelope plainly marked with the Project title (and, if applicable, the designated portion of the Project for which the Bid is submitted), the name and address of Bidder, and shall be accompanied by the Bid security and other required documents. If a Bid is sent by mail or other delivery system, the sealed envelope containing the Bid shall be enclosed in a separate envelope plainly marked on the outside with the notation "BID ENCLOSED".

ARTICLE 16 MODIFICATION AND WITHDRAWAL OF BID

16.01 A Bid may be modified or withdrawn by an appropriate document duly executed in the manner that a Bid must be executed and delivered to the place where Bids are to be submitted prior to the date and time from the opening of Bids.

16.02 Any Bid may be withdrawn prior to the scheduled time for the opening of bids or authorized postponement thereof. Any Bid received after the time and date specified shall not be considered. No Bidder may withdraw a bid within 90 days after the actual date of the opening thereof.

ARTICLE 17 OPENING OF BIDS

17.01 Bids will be opened at the time and place indicated in the Advertisement or Invitation to Bid. An abstract of the amounts of the base Bids and major alternatives, if any, will be made available to Bidders pursuant to s. 119.071 and s. 255.0518 (effective July 1, 2012), Florida Statutes.

17.02 The County may consider informal any Bid not prepared and submitted in accordance with the provisions thereof and may waive any informalities or reject any and all Bids.

ARTICLE 18 BIDS TO REMAIN SUBJECT TO ACCEPTANCE

18.01 All Bids will remain subject to acceptance for the period of time stated in the Bid Form, but the County may, in its sole discretion, release any Bid and return the Bid security prior to the end of this period.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

ARTICLE 19 AWARD OF CONTRACT

19.01 The County reserves the right to reject any and all Bids, including without limitation, nonconforming, nonresponsive, unbalanced or conditional Bids. The County further reserves the right to reject the Bid of any Bidder whom it finds, after reasonable inquiry and evaluation, to be non-responsible. The County may also reject the Bid of any Bidder if the County believes that it would not be in the best interest of the Project to make an award to that Bidder. The County also reserves the right to waive all informalities not involving price, time, or changes in the Work and to negotiate contract terms with the Successful Bidder.

19.02 More than one Bid for the same Work from an individual or entity under the same or different names will not be considered. Reasonable grounds for believing that any Bidder has an interest in more than one Bid for the Work may be cause for disqualification of that Bidder and the rejection of all Bids in which that Bidder has an interest.

19.03 In evaluating Bids, the County will consider whether or not the Bids comply with the prescribed requirements, and such alternates, unit prices and other data, as may be requested in the Bid Form or prior to the Notice of Award.

19.04 In evaluating Bidders, the County will consider the qualifications of Bidders and may consider the qualifications and experience of Subcontractors, Suppliers, and other individuals or entities proposed for those portions of the Work for which the identity of Subcontractors, Suppliers, and other individuals or entities must be submitted as provided in the Supplementary Conditions.

19.05 The County may conduct such investigations as it deems necessary to establish the responsibility, qualifications, and financial ability of Bidders, proposed Subcontractors, Suppliers, individuals, or entities to perform the Work in accordance with the Contract Documents.

19.06 If the contract is awarded, the County will award the Contract to Bidder whose Bid is in the best interest of the Project.

ARTICLE 20 CONTRACT SECURITY AND INSURANCE

20.01 Article 5 of the General Conditions, as may be modified by the Supplementary Conditions, sets forth the County's requirements as to performance and payment Bonds and insurance. When the Successful Bidder delivers the executed Agreement to the County, such Bonds must accompany it.

20.02 Provisions for indemnification by Contractor are set forth in the Agreement, at Paragraph 6.20 of the General Conditions, as amended by the Supplementary Conditions, and are incorporated here by reference.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

20.03 Simultaneously, with delivery of the executed contract, the Contractor shall furnish a surety bond or bonds as security for faithful performance of this contract and for the payment of all persons performing labor on the project under this contract and furnishing materials in connection with this contract, as specified in the General Conditions included herein. The surety on such bond and bonds shall be a duly authorized surety company satisfactory to the County.

20.04 Attorneys-in-fact who sign bid bonds or contract bonds must file with each bond a certified and effectively-dated copy of their power of attorney.

ARTICLE 21 SIGNING OF AGREEMENT

21.01 When the County gives Notice of Intent to Award to the Successful Bidder, it shall be accompanied by the Agreement. Successful Bidder shall sign and deliver the required number of counterparts of the Agreement and attached documents to the County prior to the date set for Board approval and execution. The County shall deliver one fully-signed counterpart to Successful Bidder.

21.02 The Board of County Commissioners has the right to approve or reject the recommendation of award. The Agreement is not valid unless fully executed by the Contractor and the Nassau County Board of County Commissioners.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

SECTION 00 41 15

BID FORM

PROJECT IDENTIFICATION: **Chester Road Intersection Improvements**
Bid Number NC23-064
Nassau County, Florida

BID DEADLINE: **January 17, 2024 AT 10:00 AM EST**

THIS BID IS SUBMITTED TO: **Board of County Commissioners, Nassau County**
Judicial Annex
Office of the Ex-Officio Clerk
76347 Veterans Way, Suite 456
Yulee, Florida 32097

1.01 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an agreement with the County in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

Company Name (typed or printed): _____
Business address: _____
Phone No.:_____Fax No.: _____
Contact Name: _____
Contact Title: _____
Contact email address: _____

2.01 Bidder accepts all of the terms and conditions of the Advertisement or Invitation to Bid and Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. The Bid will remain subject to acceptance for 90 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of the County.

3.01 In submitting this Bid, Bidder represents, as set forth in the Agreement, that:

A. Bidder has examined and carefully studied the Bidding Documents, the other related data identified in the Bidding Documents, and the following Addenda, receipt of all which is hereby acknowledged:

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

Addendum No.	Addendum Date
_____	_____
_____	_____
_____	_____

B. Bidder has visited the Site and become familiar with and is satisfied as to the general, local and Site conditions that may affect cost, progress, and performance of the Work.

C. Bidder is familiar with and is satisfied as to all federal, state and local Laws and Regulations that may affect cost, progress and performance of the Work.

D. Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or contiguous to the Site and all drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the Site (except Underground Facilities) which have been identified in the Supplementary Conditions as provided in paragraph 4.02 of the General Conditions, and (2) reports and drawings of a Hazardous Environmental Condition, if any, which has been identified in the Supplementary Conditions as provided in paragraph 4.06 of the General Conditions.

E. Bidder has obtained and carefully studied (or assumes responsibility for having done so) all additional or supplementary examinations, investigations, explorations, tests, studies. and data concerning conditions (surface, subsurface and Underground Facilities) at or contiguous to the Site which may affect costs, progress, or performance of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, including applying the specific means, methods, techniques, sequences, and procedures of construction expressly required by the Bidding Documents to be employed by Bidder, and safety precautions and programs incident thereto.

F. Bidder does not consider that any further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price(s) bid and within the times and in accordance with the other terms and conditions of the Bidding Documents.

G. Bidder is aware of the general nature of the work to be performed by the County and others at the Site that relates to the Work as indicated in the Bidding Documents.

H. Bidder has correlated the information known to Bidder, information and observations obtained from visits to the Site, reports and drawings identified in the Bidding Documents, and all additional examinations, investigations, explorations, tests, studies, and data with the Bidding Documents.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

I. Bidder has given Engineer of Record written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and the written resolution thereof by Engineer of Record is acceptable to Bidder.

J. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance of the Work for which this Bid is submitted.

4.01 Bidder further represents that this Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation; Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; Bidder has not solicited or induced any individual or entity to refrain from bidding; and Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over the County.

5.01 Bidder will complete the Work in accordance with the Contract Documents for the following price(s):

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

	A	ROADWAY IMPROVEMENTS				
Item No.	**Pay Item**	**Pay Item Description**	**Units**	**Quantity**	**Cost Per Unit**	**Total Cost**
1	104-10-3	SEDIMENT BARRIER	LF	9,100		
2	104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	LF	157		
3	104-18	INLET PROTECTION SYSTEM	EA	23		
4	107-1	LITTER REMOVAL AND DISPOSAL	AC	66		
5	107-2	MOWING	AC	66		
6	110-1-1	CLEARING AND GRUBBING	AC	13.2		
7	110-4-10	REMOVAL OF EXIST CONC	SY	1,744		
8	120-1	REGULAR EXCAVATION	CY	21,148		
9	120-6	EMBANKMENT	CY	3,888		
10	121-70	FLOWABLE FILL	CY	166		
11	160-4	TYPE B STABILIZATION	SY	18,922.7		
12	285-701	OPTIONAL BASE GROUP 1	SY	1007.3		
13	285-704	OPTIONAL BASE GROUP 4, (DRIVEWAY)	SY	115.3		
14	285-706	OPTIONAL BASE GROUP 6	SY	15,710.5		
15	327-70-6	MILLING EXIST ASPH PAVT, 1.5" AVG DEPTH	SY	8,405.3		
16	327-70-16	MILLING EXIST ASPH PAVT, 0.5" AVG DEPTH	SY	2,363.1		
17	334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C (1.5")	TN	1,465.5		
18	334 -1-13	SUPERPAVE ASPHALTIC CONC,	TN	55.0		

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

		TRAFFIC C (OVERBUILD)				
19	334-1-53	SUPERPAVE ASPHALTIC CONC, TRAFFIC C, PG 76-22 (PAGES DAIRY STA. 248+00 - 248+60 VARIABLE DEPTH)	TN	21.8		
20	334-1-53	SUPERPAVE ASPHALTIC CONC, TRAFFIC C, PG 76-22 (PAGES DAIRY STA. 238+70 - 240+00 VARIABLE DEPTH)	TN	32.1		
21	334-1-53	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC C, PG76-22 (1.5")	TN	2,226.2		
22	425-1-311	INLETS, CURB, TYPE P-1, <10'	EA	11		
23	425-1-321	INLETS, CURB, TYPE P-2, <10'	EA	6		
24	425-1-341	INLETS, CURB, TYPE P-4, <10'	EA	2		
25	425-1-421	INLETS, CURB, TYPE J-2, <10'	EA	1		
26	425-1-521	INLETS, DITCH BOTTOM, TYPE C, <10'	EA	7		
27	425-1-549	INLETS, DITCH BOTTOM, TYPE D, MODIFIED	EA	1		
28	425-2-61	MANHOLES, P-8, <10'	EA	6		
29	425-2-91	MANHOLES, J-8, <10’	EA	4		
30	430-175-118	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18"	LF	3,160		
31	430-175-124	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 24"	LF	687		
32	430-175-130	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 30"	LF	419		
33	430-175-136	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 36"	LF	549		

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

34	430-175-218	PIPE CULVERT, OPTIONAL MATERIAL, ELLIPTICAL, 14"x23"	LF	201		
35	430-518-100	STRAIGHT CONCRETE ENDWALL, 18", ROUND, 15 DEGREES	EA	2		
36	430-518-130	STRAIGHT CONCRETE ENDWALL, 24", ROUND, 45 DEGREES	EA	3		
37	430-830	PIPE FILLING AND PLUGGING-PLACE OUT OF SERVICE	CY	5		
38	430-982-138	MITERED END SECTION, OPTIONAL ROUND, 36" CD	EA	1		
39	430-982-138	MITERED END SECTION, OPTIONAL ELIPTICAL/ARCH, 14"X23 SD	EA	2		
40	515-1-2	PIPE HANDRAIL - GUARDRAIL, ALUMINIM	LF	32		
41	520-1-10	CONCRETE CURB & GUTTER, TYPE F	LF	4,806		
42		RIBBON CURB	LF	50		
43	520-5-11	TRAFFIC SEPERATOR CONCRETE-TYPE I, 4' WIDE	LF	406		
44	522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4"	SY	3,697		
45	522-2	CONCRETE SIDEWALK AND DRIVEWAYS, 6”	SY	144		
46	527-2	DETECTABLE WARNINGS	SF	304		
47	570-1-2	PERFORMANCE TURF, SOD	SY	18,985		
48	700-1-11	SINGLE POST SIGN, F&I GROUND MOUNT, <12 SF	AS	26		

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

49	700-1-50	SINGLE POST SIGN, RELOCATE	AS	1		
50	700-1-60	SINGLE POST SIGN, REMOVE	AS	16		
51	706-1-3	RAISED PAVEMENT MARKERS	EA	393		
52	710-11-290	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, ISLAND NOSE	SF	113		
53	711-11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK	LF	1,612		
54	711-11-124	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18" FOR DIAGONALS AND CHEVRONS	LF	281.0		
55	711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24"	LF	1,425.0		
56	711-11-141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDE LINE/ 6-10 GAP EXTENSION, 6"	GM	0.171		
57	711-11-160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE	EA	30		
58	711-11-170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA	52		
59	711-11-224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF	1,111.0		
60	711-16-131	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SKIP, 6",10-30 SKIP OR 3-9 LANE DROP	GM	0.509		
61	711-16-231	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SKIP, 6"	GM	0.031		
62	711-16-101	THERMOPLASTIC, STANDARD, WHITE, SOLID, 6"	GM	2.273		

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

63	711-16-201	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 6"	GM	2.256		
		SUBTOTAL: A – ROADWAY IMPROVEMENTS				
	B	**SIGNALIZATION**				
Item No.	**Pay Item**	**Pay Item Description**	**Units**	**Quantity**	**Cost Per Unit**	**Total Cost**
64	630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	1086		
65	630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	1695		
66	630-2-20	CONDUIT, FURNISH & INSTALL, JACK AND BORE UNDER RAILROAD	LF	247		
67	632-7-1	SIGNAL CABLE- NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	PI	2		
68	632-7-2	SIGNAL CABLE - REPAIR/REPLACE/OTHER, FURNISH & INSTALL	LF	0		
69	632-7-6	SIGNAL CABLE, REMOVE-INTERSECTION	PI	1		
70	633-1-121	FIBER OPTIC CABLE, FURNISH & INSTALL, UNDERGROUND, 2-12 FIBERS	LF	25		
71	633-1-122	FIBER OPTIC CABLE, FURNISH & INSTALL, UNDERGROUND, 13-48 FIBERS	LF	2309		

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

72	633-1-420	FIBER OPTIC CABLE, RELOCATE, UNDERGROUND	LF	30		
73	633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA	36		
74	633-2-32	FIBER OPTIC CONNECTION, INSTALL, TERMINATION	EA	36		
75	633-3-11	FIBER OPTIC CONNECTION HARDWARE, FURNISH & INSTALL, SPLICE ENCLOSURE	EA	2		
76	633-3-12	FIBER OPTIC CONNECTION HARDWARE, FURNISH & INSTALL, SPLICE TRAY	EA	3		
77	633-3-14	FIBER OPTIC CONNECTION HARDWARE, FURNISH & INSTALL, BUFFER TUBE FAN OUT KIT	EA	3		
78	633-3-16	FIBER OPTIC CONNECTION HARDWARE, FURNISH & INSTALL, PATCH PANEL-FIELD TERMINATED	EA	2		
79	635-2-11	PULL & SPLICE BOX, FURNISH & INSTALL, 13" x 24" COVER SIZE	EA	31		
80	635-2-12	PULL & SPLICE BOX, FURNISH & INSTALL, 24" x 36" COVER SIZE	EA	8		
81	635-2-30	PULL & SPLICE BOX, INSTALL	EA	2		
82	639-1-122	ELECTRICAL POWER SERVICE, FURNISH & INSTALL, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS	2		
83	639-1-620	ELECTRICAL POWER SERVICE, REMOVE UNDERGROUND	AS	1		
84	639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF	287		

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

85	639-2-6	ELECTRICAL SERVICE WIRE, REMOVE	LF	70		
86	641-2-12	PRESTRESSED CONCRETE POLE, FURNISH & INSTALL, TYPE P-II SERVICE POLE	EA	2		
87	641-2-60	PRESTRESSED CONCRETE POLE, COMPLETE POLE REMOVAL-PEDESTAL/SERVICE POLE	EA	1		
88	646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	EA	11		
89	646-1-60	ALUMINUM SIGNALS POLE, REMOVE	EA	2		
90	649-21-6	STEEL MAST ARM ASSEMBLY, FURNISH & INSTALL, SINGLE ARM 50'	EA	2		
91	649-21-10	STEEL MAST ARM ASSEMBLY, FURNISH & INSTALL, SINGLE ARM 60'	EA	1		
92	649-21-15	STEEL MAST ARM ASSEMBLY, FURNISH & INSTALL, SINGLE ARM 70'	EA	1		
93	649-21-18	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, DOUBLE ARM 70'-50'	EA	1		
94	649-21-25	STEEL MAST ARM ASSEMBLY, FURNISH & INSTALL, DOUBLE ARM 78'-60'	EA	1		
95	649-26-5	STEEL MAST ARM ASSEMBLY, REMOVE, DEEP FOUNDATION-BOLT ON ATTACHMENT	EA	4		
96	650-1-34	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL POLYCARBONATE, 3 SECTION, 1 WAY	AS	15		

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

97	650-1-36	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL POLYCARBONATE, 4 SECTION, 1 WAY	AS	5		
98	650-1-39	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL POLYCARBONATE, 5 SECTION CLUSTER, 1 WAY	AS	0		
99	650-1-60	VEHICULAR TRAFFIC SIGNAL, REMOVE-POLES TO REMAIN	AS	0		
100	653-1-11	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 1 WAY	AS	8		
101	653-1-12	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 2 WAYS	AS	3		
102	660-1-110	LOOP DETECTOR, INDUCTIVE, FURNISH & INSTALL, TYPE 10	EA	13		
103	660-2-106	LOOP ASSEMBLY, FURNISH & INSTALL, TYPE F	AS	18		
104	660-6-121	VEHICLE DETECTION SYSTEM-AVI, BLUETOOTH, FURNISH & INSTALL, CABINET EQUIPMENT	EA	1		
105	660-6-122	VEHICLE DETECTION SYSTEM-AVI, BLUETOOTH, FURNISH & INSTALL, ABOVE GROUND EQUIPMENT	EA	1		
106	665-1-11	PEDESTRIAN DETECTOR, FURNISH & INSTALL, STANDARD	EA	14		
107	670-5-111	TRAFFIC CONTROLLER ASSEMBLY, FURNISH & INSTALL, NEMA, 1 PREEMPTION	AS	2		

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

108	670-5-600	TRAFFIC CONTROLLER ASSEMBLY, REMOVE CONTROLLER WITH CABINET	AS	1		
109	682-1-133	ITS CCTV CAMERA, F&I, DOME ENCLOSURE - NON-PRESSURIZED, IP, HIGH DEFINITION	EA	2		
110	684-1-1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA	2		
111	685-1-13	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, LINE INTERACTIVE WITH CABINET	EA	1		
112	700-3-201	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, UP TO 12 SF	EA	9		
113	700-3-501	SIGN PANEL, RELOCATE, UP TO 12 SF	EA	0		
114	700-3-601	SIGN PANEL, REMOVE, UP TO 12 SF	EA	0		
115	700-5-21	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL OVERHEAD MOUNT, UP TO 12 SF	EA	4		
116	700-5-22	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, 12-18 SF	EA	4		
117	700-141-360	ENHANCED HIGHWAY SIGN ASSEMBLY, AC POWERED, F&I OVERHEAD MOUNT, BLANK OUT SIGN <12 SF	EA	1		
118	700-141-803	ENHANCED HIGHWAY SIGN ASSEMBLY, AC POWERED, RELOCATE - OVERHEAD MOUNT	EA	0		

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

		SUBTOTAL: B – SIGNALIZATION				
	C	**JEA POTABLE WATER MAIN**				
Item No.	**Pay Item**	**Pay Item Description**	**Units**	**Quantity**	**Cost Per Unit**	**Total Cost**
119	801.XII.1	16" PVC DR 25 Pipe	LF	562		
120	801.XII.1	2" PVC Pipe SCH 40	LF	17		
121	801.XII.1	6" DI Water Main Pipe	LF	83		
122	801.XII.2	16" MJ 45 Deg Bend	EA	18		
123	801.XII.2	16" X 6" Tapping Saddle with Corp Stop	EA	1		
124	801.XII.2	16" X 2" MJ Tee	EA	1		
125	801.XII.6	16" Pipe Bell Restraint	EA	16		
126	801.XIII.3	6" MJ Gate Valve	EA	1		
127	801.XIII.1	Fire Hydrant Assembly	EA	4		
128	801.XII.14	Temporary Sample Tap	EA	4		
129	801.XIII.7	Connect to Valve	EA	6		
130	801.XIII.2	Remove Fire Hydrant	EA	4		
131	801.XIII.7	Connect to Existing 16" WM	EA	6		
132	801.XIII.7	Connect to Existing 2" WM	EA	2		
133	801.III.2.4	Abandon by Removal 16" PVC Pipe	LF	299		
134	437	Thrust Block (Contingency)	EA	2		

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

		SUBTOTAL: C – JEA POTABLE WATER MAIN				
	D	**JEA RECLAIMED WATER MAIN**				
Item No.	**Pay Item**	**Pay Item Description**	**Units**	**Quantity**	**Cost Per Unit**	**Total Cost**
135	801.XXI.1	16" PVC DR 25 Pipe	LF	2401		
136	801.XXI.2	16" MJ 22.5° Deg Bend	EA	2		
137	801.XXI.2	16" MJ 45° Deg Bend	EA	18		
138	801.XXI.6	16" Pipe Bell Restraint	EA	53		
139	801.XXI.3	30" Steel Casing Pipe - by Jack and Bore	LF	330		
140	801.XXII.1	16" Gate Valve	EA	5		
141	801.XXII.5	Flushing Valve Below Grade	EA	2		
142	801.VIII.3	Removal of Pavement	SY	56		
143	801.VIII.4	Pavement Repair – Cross Cuts & Patches – Flowable Fill (Nassau County Detail No. 15)	SY	56		
		SUBTOTAL: D – JEA RECLAIMED WATER MAIN				
	E	**JEA FORCE MAIN**				
Item No.	**Pay Item**	**Pay Item Description**	**Units**	**Quantity**	**Cost Per Unit**	**Total Cost**
144	801.XVI.1	16" PVC DR 25 Pipe	LF	2403		
145	801.XVI.3	16" MJ 45 Deg Bend	EA	16		

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

146	801.XVI.7	16" Pipe Bell Restraint	EA	95		
147	801.XVI.3	16" Plug	EA	2		
148	801.XXI.3	30" Steel Casing Pipe - by Jack and Bore	LF	332		
149	801.XVII.4	Air Release Valve	EA	2		
150	801.XVII.1	16" MJ Gate Valve	EA	4		
151	801.VIII.3	Removal of Pavement	SY	139		
152	801.VIII.4	Pavement Repair – Cross Cuts & Patches – Flowable Fill (Nassau County Detail No. 15)	SY	139		
153	801.VI.1	12" PVC DR 18 Pipe	LF	379		
154	801.XVI.3	12" MJ 45 Deg Bend	EA	20		
155	801.XVI.7	12" Pipe Bell Restraint	EA	15		
156	801.XVI.3	12" X 4" MJ Tee	EA	1		
157	801.XVI.1	2" PVC Pipe	LF	17		
158	801.XVII.3	Connect to Existing Tee	EA	1		
159	801.XVII.3	Connect to Existing 12" FM	EA	9		
160	801.XVII.3	Connect to Existing 4” FM	EA	1		
161	801.XVI.2	Pump Truck	HR	20		
162	801.XVII.1	12" MJ Gate Valve (contingency)	EA	2		
		SUBTOTAL: E – JEA FORCE MAIN				

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

	F	JEA MISC				
Item No.	**Pay Item**	**Pay Item Description**	**Units**	**Quantity**	**Cost Per Unit**	**Total Cost**
163	408	A-3 Backfill (Contingency)	LF	1	$15,000	
164	408	Testing Allowance	LS	1	$10,000	
		SUBTOTAL: F – JEA MISC				

BID SUMMARY	
PARTS A, B **SUBTOTAL =**	
PARTS C, D, E, F **SUBTOTAL =**	
TOTAL BASE BID	

All specific cash allowances are included in the price(s) set forth above and have been computed in accordance with paragraph 11.02 of the General Conditions.

Unit prices have been computed in accordance with Paragraph 11.03.B of the General Conditions.

Bidder acknowledges that estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids. Final payment of all Unit Price Bid Items will be based on actual quantities as determined in the Contract Documents.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

6.01 Bidder agrees that the Work will be substantially complete within **420** calendar days after the date when the Contract Times commence to run as provided in paragraph 2.03 of the General Conditions, and completed and ready for final payment in accordance with paragraph 14.07.B of the General Conditions within **45** calendar days from the date of substantial completion. Total contract time shall be **465** calendar days; for everyday the work goes beyond substantial completion, a day will be removed from final completion so the total days equal 120 calendar days.

6.02 Bidder accepts the provisions of the Agreement as to liquidated damages in the event of failure to complete the Work within the times specified above, which shall be stated in the Agreement.

7.01 The following documents are attached to and made a condition of this Bid:

A. Bid Security in the form of a certified check of Bid Bond (Section 00 43 15)
B. Tabulation of Subcontractors & Suppliers (Section 00 43 35)
C. Florida Trench Safety Act Certification (Section 00 44 55)
D. Bidder's Qualification Statement (Section 00 45 13)
E. Non-Collusion Affidavit (Section 00 45 19)
F. Drug-Free Workplace Certificate (Section 00 45 20)
G. Public Entity Crimes Statement (Section 00 45 30)
H. Statement of Disputes, Litigation & Surety Completion (Section 00 45 35)
I. E-Verify Affidavit of Compliance (Section 00 45 40)

8.01 The terms used in this Bid with initial capital letters have the meanings indicated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

SUBMITTED on_____, 20_____.

State Contractor License No._____.

If Bidder is:

An Individual

Name (typed or printed):_____

By:_____

(*Individual's Signature*)

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

Doing business as: _____

Business address: _____

_____

Phone No.: _____ Fax No.: _____

A Partnership

Partnership Name: _____

By: _____

(*Signature of general partner - attach evidence of authority to sign*)

Name (typed or printed): _____

Business address: _____

_____

Phone No.: _____ Fax No.: _____

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

A Corporation

Corporation Name:_____ (SEAL)

State of Incorporation: _____

Type (General Business, Professional, Service, Limited Liability): _____

By: _____

(*Signature - attach evidence of authority to sign*)

Name (typed or printed): _____

Title:_____ (CORPORATE SEAL)

Attest_____

(*Signature of Corporate Secretary*)

Business address: _____

_____

Phone No.:_____ Fax No.: _____

Date of Qualification to do business is _____

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

A Joint Venture

Joint Venturer Name: _____

By: _____

(*Signature of joint venture partner - attach evidence of authority to sign*)

Name (typed or printed): _____

Title: _____

Business address: _____

_____

Phone No.: _____ Fax No.: _____

Joint Venturer Name: _____

By: _____

(*Signature - attach evidence of authority to sign*)

Name (typed or printed): _____

Title: _____

Business address: _____

_____

Phone No.: _____ Fax No.: _____

Phone and FAX Number, and Address for receipt of official communications:

_____

_____

(Each joint venturer must sign. The manner of signing for each individual, partnership, and corporation that is a party to the joint venture should be in a manner indicated above.)

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

SECTION 00 43 15

BID BOND

Any singular reference to Bidder, Surety, Owner, or other party shall be considered plural where applicable.

BIDDER (Name and Address):

SURETY (Name and Address of Principal Place of Business):

OWNER (Name and Address):

BID

Bid Due Date:
Project (Brief Description Including Location):

BOND

Bond Number:
Date (Not later than Bid due date):
Penal Sum: _____ _____
(Words) (Figures)

Surety and Bidder, intending to be legally bound hereby, subject to the terms printed on the reverse side hereof, do each cause this Bid Bond to be duly executed on its behalf by its authorized officer, agent, or representative.

BIDDER	**SURETY**
_____ (Seal)	_____ (Seal)
Bidder's Name and Corporate Seal	Surety's Name and Corporate Seal
By: _____	By: _____
Signature and Title	Signature and Title (Attach Power of Attorney)
Attest: _____	Attest: _____
Signature and Title	Signature and Title

Note: Above addresses are to be used for giving required notice.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

DAMAGES FORM

1. Bidder and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors, and assigns to pay to the County upon default of Bidder any difference between the total amount of Bidder's Bid and the total amount of the Bid of the next lowest, responsible Bidder who submitted a responsive Bid as determined by the County for the work required by the Contract Documents, provided that:

1.1. If there is no such next Bidder, and the County does not abandon the Project, then Bidder and Surety shall pay to the County the penal sum set forth on the face of this Bond, and

1.2. In no event shall Bidder's and Surety's obligation hereunder exceed the penal sum set forth on the race of this Bond.

2. Default of Bidder shall occur upon the failure of Bidder to deliver within the time required by the Bidding Documents (or any extension thereof agreed to in writing by the County) the executed Agreement required by the Bidding Documents and any performance and payment bonds required by the Bidding Documents.

3. This obligation shall be null and void if:

3.1. The County accepts Bidder's Bid and Bidder delivers within the time required by the Bidding Documents (or any extension thereof agreed to in writing by the County) the executed Agreement required by the Bidding Documents arid any performance and payment bonds required b) the Bidding Documents, or

3.2. All Bids are rejected by the County, or

3.3. The County fails to issue a Notice of Award to Bidder within the time specified in the Bidding Documents (or any extension thereof agreed to in writing by Bidder and, if applicable, consented to by Surety when required by Paragraph *5* hereof).

4. Payment under this Bond will be due and payable upon default by Bidder and within 30 calendar days after receipt by Bidder and Surety of written notice of default from the County, which notice will be given with reasonable promptness, identifying this Bond and the Project and including a statement of the amount clue.

5. Surety waives notice of any and all defenses based on or arising out of any time extension to issue Notice of Award agreed to in writing by the County and Bidder, provided that the total time for issuing Notice of Award including extensions shall not in the aggregate exceed 120 days from Bid due date without Surety's written consent.

6. No suit or action shall be commenced under this Bond prior to 30 calendar days after the notice of default required in Paragraph 4 above is received by Bidder and Surety and in no case later than one year after Bid due date.

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7. Any suit or action under this Bond shall be commenced only in a court of competent jurisdiction located in the slate in which the Project is located.

8. Notices required hereunder shall be in writing and sent to Bidder and Surety at their respective addresses shown on the face of this Bond. Such notices may be sent by personal delivery, commercial courier, or by United States Registered or Certified Mail, return receipt requested, postage pre-paid, and shall be deemed to be effective upon receipt by the party concerned.

9. Surety shall cause to be attached to this Bond a current and effective Power of Attorney evidencing the authority of the officer, agent, or representative who executed this Bond on behalf of Surety to execute, seal, and deliver such Bond and bind the Surety thereby.

10. This Bond is intended to conform to all applicable statutory requirements. Any applicable requirement of any applicable statute that has been omitted from this Bond shall be deemed to be included herein as if set forth at length. If any provision of this Bond conflicts with any applicable statute, then the provision of said statute shall govern and the remainder of this Bond that is not in conflict therewith shall continue in full force and effect.

11. The term "Bid" as used herein includes a Bid, offer, or proposal as applicable.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

SECTION 00 43 35

TABULATION OF SUBCONTRACTORS & SUPPLIERS

The undersigned states that the following is a full and complete list of the proposed subcontractors and suppliers on this Project and the class of work to be performed by each, and that such list will not be added to nor altered without written consent to the Owner through the Engineer.

	SUBCONTRACTOR OR SUPPLIER AND ADDRESS	**CLASS OF WORK OR MATERIAL**
1.	_____	_____
2.	_____	_____
3.	_____	_____
4.	_____	_____
5.	_____	_____
6.	_____	_____
7.	_____	_____

BIDDER: _____

By: _____

Name: _____

Title: _____

Date: _____

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

SECTION 00 44 55

FLORIDA TRENCH SAFETY ACT CERTIFICATION

Bidder acknowledges that included in the various items of the proposal and in the Total Bid Price are costs for complying with the Florida Trench Safety Act (90-96, Laws of Florida) as modified October 1, 2008. The Bidder further identifies the costs to be summarized below:

	Cost
1. Trench Safety Act Compliance	$_____
2. Special Shoring	$_____

Identify method of compliance for Item #1: _____

_____

Identify or attach a copy of Special Shoring requirements for Item #2: _____

_____

The undersigned certifies that he/she is the Contractor who will perform the trench excavation for this project, and hereby gives written assurance that Contractor will comply with the applicable trench safety standards specifically set forth in Florida's Trench Safety Act, Laws of Florida, 90-96.

BIDDER: _____

By: _____

Name: _____

Title: _____

Sworn to and subscribed before me this _____ day of _____, 20_____.

_____

Notary Public

My Commission Expires: _____

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

SECTION 00 45 13

STATEMENT OF BIDDER'S QUALIFICATIONS

To: _____ Project: _____

Date: _____ _____

The following experience record, as of date shown, shall be submitted to the County with the Bid Form. All questions shall be answered fully. Bidders who have qualified to bid on other projects for this County within the last 12 months need not resubmit this form unless specifically requested by the County. The contents of this form will be considered confidential to the extent allowed by applicable laws and regulations.

Name of Bidder: _____

Business Address: _____
Street

_____
City State Zip Code

1. Number of years in business as a Contractor under the present:

   Business Name _____

   As Principal Contractor _____ As a Sub-Contractor _____

2. Class of work you are equipped to perform: _____

3. Class of work you usually sublet: _____

4. Have any members of your concern ever operated under any other business name? _____.
   If so, give details: _____

   _____

5. Have you ever failed to qualify as a responsible bidder? _____. If so, give details.

   _____

   _____

6. Have you ever refused to enter into a contract after the award is made to you? _____.

   If so, give details. _____

   _____

7. Have you ever failed to complete any work? _____. If so, give details:

   _____

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

_____

8. Has any surety or financial institution ever experienced loss on your concern? _____.

If so, give details: _____

_____

9. Give name and address of the County, type of work, and the contract amount of at least three projects completed in the last three years:

	(1)	(2)	(3)
Project Owner:	_____	_____	_____
Project Manager:	_____	_____	_____
Email:	_____	_____	_____
Phone No:	_____	_____	_____
Address:	_____	_____	_____
City, State, Zip:	_____	_____	_____
Type of Work:	_____	_____	_____
Contract Amt:	$_____	$_____	$_____

10. Give name and address of the County, type of work, and contract amount of projects now in process of construction:

	Name	Address	Type of Work	Contract Amount
A.	_____	_____	_____	$_____
B.	_____	_____	_____	$_____
C.	_____	_____	_____	$_____
D.	_____	_____	_____	$_____
E.	_____	_____	_____	$_____

11. Indicate your experience in the construction of work similar to this project (if not demonstrated by Questions 9 and 10, above):

_____

_____

_____

12. Give construction experience of principal individuals of your organization:

	Name	Position	Years of Experience	Size and Type of Work
A.	_____	_____	_____	_____

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

B. _____ _____ _____ _____

C. _____ _____ _____ _____

D. _____ _____ _____ _____

E. _____ _____ _____ _____

13. Are there any judgments, suits, or claims pending against you? _____. If so, give details:

_____

14. Does your organization operate as a corporation, partnership, or individual? _____

_____

A. If a corporation, when incorporated: _____

In which state incorporated: _____

List name, title, and address of all officers:

	Name	Title	Address
(1)	_____	_____	_____
(2)	_____	_____	_____
(3)	_____	_____	_____
(4)	_____	_____	_____
(5)	_____	_____	_____

B. If a partnership, date of organization: _____

General, Limited, or Associated? _____

List name, address, and proportional interest of parties:

	Name	Address	Proportional Interest
(1)	_____	_____	_____
(2)	_____	_____	_____
(3)	_____	_____	_____
(4)	_____	_____	_____
(5)	_____	_____	_____

15. If requested prior to award of contract, provide to the County an accurate, up-to-date, condensed financial statement on a separate sheet attached to these qualifications of the individual, co-partnership, or corporation.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

The undersigned hereby declares and certifies that the foregoing is a true statement of the experience and condition of the organization, therein first given and that any agency or individual herein named authorized to supply any information as may be deemed necessary to verify this statement.

Signed _____

Title_____

Subscribed and sworn to before me this_____

day of _____, 20_____

_____Notary Public

_____County, _____

My Commission expires_____

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

SECTION 00 45 19

NONCOLLUSION AFFIDAVIT

TO: The _____, herein called the "County."

Pursuant to bidding requirements for the work titled "_____

_____,"

the enclosed contract documents shall be provided to the County.

State of _____

County of _____

_____, being first duly sworn, deposes, and says that:

A. He is _____(officer's title) of _____(company name), the Bidder that has submitted the attached bid;

B. He is fully informed respecting the preparation and contents of the attached bid and of all pertinent circumstances respecting such bid;

C. Such bid is genuine and is not a collusive or sham bid;

D. Neither the said Bidder nor any of its officers, partners, owners, agents, representatives, employees, or parties in interest, including this affiant, has in any way colluded, conspired, connived, or agreed, directly or indirectly with any other Bidder, firm, or person to submit a collusive or sham bid in connection with the contract for which the attached bid has been submitted or to refrain from bidding in connection with such contract, or has in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other Bidder, firm, or person to fix the price or prices in the attached bid or of any other Bidder, or to fix any overhead, profit, or cost element of the bid price or the bid price of any other Bidder, or to secure through any collusion, conspiracy, connivance, or unlawful agreement any advantage against the _____ or any person interested in the proposed contract; and

E. The price or prices quoted in the attached bid are fair and proper and are not tainted by any collusion, conspiracy, connivance, or unlawful agreement on the part of the Bidder or any of its agents, representatives, owners: employees, or parties in interest, including this affiant.

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(Signed) _____

_____

Subscribed and sworn to before me
this _____day of _____, 20____.

_____
Notary Public

_____
My commission expires

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

SECTION 00 45 20

DRUG FREE WORKPLACE CERTIFICATE

I, the undersigned, in accordance with Florida Statute 287.087, hereby certify that _____

_____ (print or type name of firm)

- Publishes a written statement notifying that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance in the workplace named above, and specifying actions that will be taken against violations of such prohibition.

- Informs employees about the dangers of drug abuse in the workplace, the firm's policy of maintaining a drug free working environment, and available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug use violations.

- Gives each employee engaged in providing commodities or contractual services that are under bid or proposal, a copy of the statement specified above.

- Notifies the employees that as a condition of working on the commodities or contractual services that are under bid or proposal, the employee will abide by the terms of the statement and will notify the employer of any conviction of, plea of guilty or nolo contendere to, any violation of Chapter 1893, or any controlled substance law of the State of Florida or the United States, for a violation occurring in the work place, no later than five (5) days after such conviction, and requires employees to sign copies of such written statement to acknowledge their receipt.

- Imposes a sanction on, or requires the satisfactory participation in, a drug abuse assistance or rehabilitation program, if such is available in the employee's community, by any employee who is so convicted.

- Makes a good faith effort to continue to maintain a drug free work place through the implementation of a drug free work place program.

“As a person authorized to sign a statement, I certify that the above-named business, firm, or corporation complies fully with the requirements set forth herein.”

_____

Authorized Signature

_____

Date Signed

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

State of: _____

County of: _____

Sworn to and subscribed before me this _____ day of _____, 20__.

Personally known _____ or Produced Identification _____

(Specify type of Identification)

_____

Notary Public

_____

My commission expires

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

SECTION 00 45 30

**SWORN STATEMENT UNDER SECTION 287.133(3)(a),
FLORIDA STATUTES, ON PUBLIC ENTITY CRIMES**

(To be signed in the presence of a notary public or other
officer authorized to administer oaths.)

STATE OF _____
COUNTY OF _____

Before me, the undersigned authority, personally appeared _____, who being by me first duly sworn, made the following statement:

1. The business address of _____
(firm name of Bidder/Contractor)
is _____

2. My relationship to _____
(firm name of Bidder/Contractor)
is _____
(relationship such as sole proprietor, partner, president, vice president)

3. I understand that a public entity crime as defined in Section 287.133 of the Florida Statutes includes a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity in Florida or with an agency or political subdivision of any other state or with the United States, including, but not limited to, any bid or contract for goods or services to be provided to any public entity or such an agency or political subdivision and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.

4. I understand that "convicted" or "conviction" is defined by the statute to mean a finding of guilt or a conviction of a public entity crime, with or without adjudication or guilt, in any federal or state trial of record relating to charges brought by indictment or information after July 1, 1989, as a result of a jury verdict, nonjury trial, or entry of a plea of guilty or nolo contendere.

5. I understand that "affiliate" is defined by the statute to mean (1) a predecessor or successor of a person or a corporation convicted of a public entity crime; or (2) an entity under control of any natural person with is active in management of the entity and who has been convicted of a public entity crime; (3) those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate; or (4) a person or corporation who knowingly entered into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months.

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6. Neither the Bidder/Contractor nor any officer, director, executive, partner, shareholder, employee, member or agent who is active in the management of the Bidder/Contractor, nor any affiliate of the Bidder/Contractor, has been convicted of a public entity crime subsequent to July 1, 1989.

(Draw a line through Paragraph 6 if Paragraph 7 below applies.)

7. There has been a conviction of a public entity crime by Bidder/Contractor, or an officer, director, executive, partner, shareholder, employee, member or agent of the Bidder/Contractor who is active in the management of the Bidder/Contractor or an affiliate of the Bidder/Contractor. A determination has been made pursuant to 287.133(3) by order of the Division of Administrative Hearings that it is not in the public interest of the name of the convicted person or affiliate to appear on the convicted vendor list.
The name of the convicted person or affiliate is _____.

A copy of the order of the Division of Administrative Hearings is attached to this statement.

(Draw a line through Paragraph 7 if Paragraph 6 above applies.)

_____
(Signature)

Sworn to and subscribed before me in the State and County first mentioned above on the _____ day of _____, 20__.

_____
Notary Public

(affix seal)

_____
My commission expires

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

SECTION 00 45 35

BIDDER'S STATEMENT OF DISPUTES, LITIGATION, ARBITRATION, AND SURETY COMPLETION, LAST THREE (3) YEARS

Project	Name and Address of Owner or Engineer	Name and Phone of Owner or Engineer Representative	Date of Contract	Amount	Status

(Signed) _____

Print Name _____

Subscribed and sworn to before me
this_____day of_____, 20_____

_____
Notary Public

_____
My commission expires

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SECTION 00 51 00

NOTICE OF AWARD

TO: _____

CONTRACTOR

_____

ADDRESS

_____

CITY STATE ZIP

PROJECT: _____

NAME

The Nassau County Board of County Commissioners has considered the recommendation to accept the Bid submitted by _____ for the above described work in response to its Invitation to Bid (ITB) No. NC23-064, opened on _____, 20___.

You are hereby notified that the Bid has been accepted and the Nassau County Board of County Commissioners has executed the enclosed agreement subject to: Receipt of the applicable bonds and Certificates of Insurance, within ten (10) calendar days from the date of this Notice of Award and receipt of the fully executed agreement. The bonds are required to be recorded at cost to the contractor. The bonds must be recorded within the same ten (10) day period referenced herein. The Clerk of Courts does not accept company or personal checks unless the signee is present and can provide identification.

If you fail to furnish the bonds and the Certificates of Insurance within ten (10) calendar days from the date of this Notice, the County will be entitled to consider any rights arising out of the County's acceptance of your Bid as abandoned and void.

You are required to return an acknowledged copy of this Notice of Award, Bonds, and Insurance Certificates to The Nassau County Board of County Commissioners, c/o John A. Crawford, Ex-Officio Clerk, 76347 Veterans Way, Suite 465, Yulee, Florida 32097. A copy must be sent to Nassau County, Procurement Manager, at 96135 Nassau Place, Suite 6, Yulee, Florida 32097.

Dated this _____ day _____, 20___.

Nassau County Board of County Commissioners

BY: _____

TITLE: _____

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

ACCEPTANCE OF NOTICE

Receipt of the above Notice of Award is hereby acknowledged by _____
this _____day of _____, 20___.

BY: _____
TITLE: _____

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

SECTION 00 52 15

AGREEMENT

THIS AGREEMENT is dated as of the _____day of _____ in the year _____ by and between _____ (Owner) and _____ (Contractor).

Owner and Contractor, in consideration of the mutual covenants hereinafter set forth, agree as follows:

ARTICLE 1 - **WORK**

1.01 Contractor shall complete all Work as specified or indicated in the Contract Documents. The Work is generally described as follows:

This project consists of milling and resurfacing, reconstruction and widening along Chester Road from David Hallman Parkway to approximately 700' north of Pages Dairy Road in Nassau County. The improvements on Chester Road from David Hallman Parkway to Courtney Isles Way will consist of milling and resurfacing and widening for bike keyholes. Chester Road from Courtney Isles Way to approximately 700' north of Pages Dairy will have reconstruction and widening from a two-lane rural road to a four-lane urban roadway with bike lanes and sidewalk. Improvements on Pages Dairy Road extend approximately 1400' west of Chester Road and include resurfacing and providing 5' paved shoulders. Signals will be added at the Chester Road and Pages Dairy Road intersection. The existing signals will be replaced at the Chester Road and David Hallman Parkway intersection. The work to be performed includes but is not limited to:

- Pavement Construction
- Earthwork
- Milling and resurfacing of existing asphalt pavement
- Constructing storm sewer pipes
- Pond construction
- Curb and gutter construction
- Clearing & Grubbing
- Placing performance turf and Sod
- Traffic maintenance and protection
- Installing Pavement Markings and signage
- Installing mast arms and signals

All work shall be in accordance with the construction drawings, specifications, and contract documents. **BIDDERS MUST BE FDOT PRE-QUALIFIED FOR ALL CATEGORIES OF WORK**

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

REQUIRED FOR THIS PROJECT.

ARTICLE 2 - THE PROJECT

2.01 The Project for which the Work under the Contract Documents may be the whole or only a part is generally described as follows:

Chester Road Intersection Improvements
Bid Number NC23-064
Nassau County, Florida

ARTICLE 3 - ENGINEER OF RECORD

3.01 The Project has been designed by Connelly & Wicker Inc., who is to act as the County's representative, assume all duties and responsibilities, and have the rights and authority assigned to Engineer of Record in the Contract Documents in connection with completion of the Work in accordance with the Contract Documents.

ARTICLE 4 - CONTRACT TIMES

4.01 Time of the Essence

A. All time limits for Milestones, if any, Substantial Completion, and completion and readiness for final payment as stated in the Contract Documents are of the essence of the Contract.

B. The Contractor hereby agrees to commence work under this contract on a date to be specified in written "Notice to Proceed" of the County and to fully complete the project as specified in Section 4.02 of this Agreement.

4.02 Days to Achieve Substantial Completion and Final Payment

The Work will be substantially completed within 420 days after the date when the Contract Times commence to run as provided in Paragraph 2.03 of the General Conditions, and completed and ready for final payment in accordance with Paragraph 14.07 of the General Conditions within 45 calendar days from the date of substantial completion. Total contract time shall be 465 calendar days; for everyday the work goes beyond substantial completion, a day will be removed from final completion so the total days equal 465 calendar days.

4.03 Liquidated Damages

A. Contractor and the County recognize that time is of the essence of this Agreement and that the County will suffer financial loss if the Work is not completed within the times

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specified in Paragraph 4.02 above, plus any extensions thereof allowed in accordance with Article 12 of the General Conditions. The parties also recognize the delays, expense, and difficulties involved in proving in legal or arbitration proceeding the actual loss suffered by the County if the Work is not completed on time. Accordingly, instead of requiring any such proof, the County and Contractor agree that as liquidated damages for delay (but not as a penalty) Contractor shall pay the County $1,000.00 for each day that expires after the time specified in Paragraph 4.02 for Substantial Completion and until the Work is substantially complete. After Substantial Completion, if Contractor shall neglect, refuse, or fail to complete the remaining Work within the Contract Time or any proper extension thereof granted by the County, Contractor shall pay the County $500.00 for each day that expires after the time specified in Paragraph 4.02 for completion and readiness for final payment until the Work is completed and ready for final payment.

ARTICLE 5 - **CONTRACT PRICE**

5.01 The County shall pay Contractor for completion of the Work in accordance with the Contract Documents an amount in current funds equal to the sum of the amounts determined pursuant to Paragraph 25 "Payments to Contractor" of the General Conditions and Paragraphs 5.01A and 5.01 B below:

A. For all Work, at the prices stated in the Contractor's Bid, attached hereto as an exhibit.

B. For all Unit Price Work, an amount equal to the sum of the established unit price for each separately identified item of Unit Price Work times the estimated quantity of that item as indicated in Contractor's Bid (attached hereto as an exhibit) for a Total of All Unit Prices of:

_____ _____

(use words) (figures)

As provided in Paragraph 11.03 of the General Conditions, estimated quantities are not guaranteed, and determinations of actual quantities and classification are to be made by Engineer of Record as provided in paragraph 9.07 of the General Conditions. The final payment for all Unit Price Work shall be an amount equal to the sum of the established unit price for each separately identified item of Unit Price Work times the actual completed and accepted quantity of each item. Unit prices have been computed as provided in Paragraph 11.03 of the General Conditions.

ARTICLE 6 - **PAYMENT PROCEDURES**

6.01 Submittal and Processing of Payments

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

A. Contractor shall submit Applications for Payment in accordance with Article 14 of the General Conditions. Applications for Payment will be processed by the County as provided in the General Conditions.

6.02 Progress Payments; Retainage

A. The County shall make progress payments on account of the Contract Price on the basis of Contractor's Applications for Payment once each month during performance of the Work as provided in Paragraphs 6.02.A.1 and 6.02.A.2 below. All such payments will be measured by the schedule of values established as provided in Paragraph 2.07.A of the General Conditions (and in the case of Unit Price Work based on the number of units completed) or, in the event there is no schedule of values, as provided in the General Requirements:

1. Prior to Substantial Completion, progress payments will be made in an amount equal to the percentage indicated below, but, in each case, less the aggregate of payments previously made and less such amounts as Engineer of Record may determine or the County may withhold, including but not limited to liquidated damages, in accordance with Paragraph 14.02 of the General Conditions:

   a. 90 percent of the Work completed (with the balance being retainage)
   b. 90 percent of cost of materials and equipment not incorporated in the Work (with the balance being retainage).

2. Upon Substantial Completion, the County shall pay an amount sufficient to increase total payments to Contractor to 95 percent of the Contract Price (with the balance being retainage), less such amounts as Engineer of Record shall determine or the County may withhold, for incomplete work and for other items in accordance with Paragraph 14.02 of the General Conditions.

6.03 Final Payment

A. Upon final completion and acceptance of the Work in accordance with Paragraph 14.07 of the General Conditions, the County shall pay the remainder of the Contract Price as recommended by Engineer of Record as provided in said Paragraph 14.07.

B. Final Release of Retainage and acceptance of the project must be approved by the Board of County Commissioners.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

ARTICLE 7 - **INTEREST**

7.01 All moneys not paid when due as provided in Article 14 of the General Conditions shall bear interest at the rate of 0 percent per annum.

ARTICLE 8 - **CONTRACTOR'S REPRESENTATIONS**

8.01 In order to induce the County to enter into this Agreement, Contractor makes the following representations:

A. Contractor has examined and carefully studied the Contract Documents and the other related data identified in the Bidding Documents.

B. Contractor has visited the Site and become familiar with and is satisfied as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.

C. Contractor is familiar with and is satisfied as to all federal, state, and local Laws and Regulations that may affect cost, progress, and performance of the Work.

D. Contractor has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or contiguous to the Site and all drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the Site (except Underground Facilities) which have been identified in the Supplementary Conditions as provided in Paragraph 4.02 of the General Conditions and (2) reports and drawings of a Hazardous Environmental Condition, if any, at the Site which has been identified in the Supplementary Conditions as provided in Paragraph 4.06 of the General Conditions.

E. Contractor has obtained and carefully studied (or assumes responsibility for having done so) all additional or supplementary examinations, investigations, explorations, tests, studies, and data concerning conditions (surface, subsurface, and Underground Facilities) at or contiguous to the Site which may affect cost, progress, or performance of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by Contractor, including applying the specific means, methods, techniques, sequences, and procedures of construction, if any, expressly required by the Bidding Documents, and safety precautions and programs incident thereto.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

F. Contractor does not consider that any additional examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract Documents.

G. Contractor is aware of the general nature of work to be performed by the County and others at the Site that relates to the Work as indicated in the Contract Documents.

H. Contractor has correlated the information known to Contractor, information and observations obtained from visits to the Site, reports and drawings identified in the Contract Documents, and all additional examinations, investigations, explorations, tests, studies, and data with the Contract Documents.

I. Contractor has given Engineer of Record written notice of all conflicts, errors, ambiguities, or discrepancies that Contractor has discovered in the Contract Documents, and the written resolution thereof by Engineer of Record is acceptable to Contractor.

J. The Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance of the Work.

ARTICLE 9 - CONTRACT DOCUMENTS

9.01 Contents

A. The Contract Documents consist of the following:

1. This Agreement
2. Project Manual (enumerated as follows):
    a. Project Manual Table of Contents
    b. General Conditions
    c. Supplementary Conditions
    d. Technical Specifications
    e. Appendixes
    f. Addenda, if any
3. Exhibits to this Agreement (enumerated as follows):
    a. General Information and Minimum Insurance Requirements
4. Documentation submitted by Contractor prior to Notice of Award
5. Drawing Index, if any
6. The following which may be delivered or issued on or after the Effective Date of the Agreement and are not attached hereto:
    a. Payment Bond

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

b. Performance Bond
c. Certificate of Liability Insurance
d. Notice to Proceed
e. Work Change Directives
f. Change Orders
g. Certificate of Substantial Completion
h. Certificate of Final Inspection
i. Certificate of Engineer
j. Certificate of Final Completion
k. CONTRACTOR'S release of Performance Bond
l. Construction Drawings and plans/As-Built Drawings
m. Supplemental Agreements
n. CONTRACTOR'S Waiver of Lien (Partial)
o. CONTRACTOR'S Waiver of Lien (Final and Complete)
p. Subcontractor/Vendor's Waiver of Lien (Final and Complete)
q. Consent of Surety to Final Payment
r. CONTRACTOR'S Insurance Requirements, as set forth in the Bid Documents

B. The documents listed in Paragraph 9.01.A are attached to this Agreement (except as expressly noted otherwise above).

C. There are no Contract Documents other than those listed above in this Article 9.

D. The Contract Documents may only be amended, modified, or supplemented as provided in paragraph 3.04 of the General Conditions.

ARTICLE 10 - MISCELLANEOUS

10.01 Terms

A. Terms used in this Agreement will have the meanings indicated in the General Conditions and the Supplementary Conditions.

10.02 Assignment of Contract

A. No assignment by a party hereto of any rights under or interests in the Contract will be binding on another party hereto without the written consent of the party sought to be bound; and, specifically but without limitation, moneys that may become due and moneys that are due may not be assigned without such consent (except to the extent that the effect of this restriction may be limited by law), and unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under the Contract Documents.

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10.03 Successors and Assigns

A. The County and Contractor each binds itself, its partners, successors, assigns, and legal representatives to the other party hereto, its partners, successors, assigns, and legal representatives in respect to all covenants, agreements, and obligations contained in the Contract Documents.

10.04 Severability

A. Any provision or part of the Contract Documents held to be void or unenforceable under any Law or Regulation shall be deemed stricken, and all remaining provisions shall continue to be valid and binding upon the County and Contractor, who agree that the Contract Documents shall be reformed to replace such stricken provision or part thereof with a valid and enforceable provision that comes as close as possible to expressing the intention of the stricken provision.

10.05 Other Provisions

None

IN WITNESS WHEREOF, the County and Contractor have signed this Agreement in triplicate. One counterpart each has been delivered to the County, Contractor, and Engineer of Record. All portions of the Contract Documents have been signed or identified by the County and Contractor or identified by Engineer of Record on their behalf.

This Agreement will be effective on the date on which the Agreement is signed and delivered by the last of the two parties to sign and deliver (which is the Effective Date of the Agreement).

OWNER	CONTRACTOR
Nassau County Board of County Commissioners	_____
Signed: _____	Signed: _____
Title: _____	Title: _____
Date: _____	Date: _____
[CORPORATE SEAL]	[CORPORATE SEAL]
Attest: _____	Attest: _____
Title: _____	Title: _____
Address for giving notices:	Address for giving notices:

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_____ _____

_____ _____

_____ _____

Phone: _____FAX: _____ Phone: _____FAX: _____

License _____

(Where applicable)

Approved as to form by County Attorney

Agent for service of process:

_____

Signature

(If Owner is a corporation, attach evidence of authority to sign. If Owner is a public body, attach evidence of authority to sign and resolution or other documents authorizing execution of Owner-Contractor Agreement.)

(If Contractor is a corporation or a partnership, attach evidence of authority to sign.)

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SECTION 00 55 00

NOTICE TO PROCEED

TO: _____
CONTRACTOR

_____
ADDRESS

_____
CITY STATE ZIP

PROJECT: Chester Road Intersection
Improvements Bid Number NC23-064
Nassau County, Florida

You are hereby notified to commence work in accordance with the Agreement dated _____, 20___.

The Contract time for Substantial Completion is _____ consecutive calendar days from the date of commencement.

The Contract time for Final Completion is _____ consecutive calendar days from the date of Substantial Completion.

The Contract time commences to run _____, 20___.

The date of Substantial Completion is _____, 20___.

The date of Final Completion is _____, 20___.

Nassau County Board of County Commissioners

BY: _____

TITLE: _____

DATE: _____

You are required to return an acknowledged copy of the Notice to Proceed to The Nassau County Board of County Commissioners, c/o John A. Crawford, Ex-Officio Clerk, 76347 Veterans Way, Suite 456, Yulee, Florida 32097.

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ACCEPTANCE OF NOTICE

Receipt of the above Notice to Proceed is hereby acknowledged

this _____ day of _____, 20___.

BY: _____

TITLE: _____

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SECTION 00 61 15

PERFORMANCE BOND

Any singular reference to Contractor, Surety, Owner, or other party shall be considered plural where applicable.

CONTRACTOR (*Name and Address*):

SURETY (*Name and Address of Principal Place of Business*):

OWNER (*Name and Address*):

CONTRACT

Effective Date of Agreement:
Amount:
Description (*Name and Location*):

BOND

Bond Number:
Date (*Not earlier than Effective Date of Agreement*):
Amount:
Modifications to this Bond Form:

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Surety and Contractor, intending to be legally bound hereby, subject to the terms set forth below, do each cause this Performance Bond to be duly executed by an authorized officer, agent, or representative.

CONTRACTOR AS PRINCIPAL	**SURETY**
_____ (Seal)	_____ (Seal)
Contractor's Name and Corporate Seal	Surety's Name and Corporate Seal
By: _____	By: _____
Signature	Signature (Attach Power of Attorney)
_____	_____
Print Name	Print Name
_____	_____
Title	Title
Attest: _____	Attest: _____
Signature	Signature
_____	_____
Title	Title

Note: Provide execution by additional parties, such as joint ventures, if necessary.

EJCDC No. C-610 (2007 Edition)
Originally prepared through the joint efforts of the Surety Association of America, Engineers Joint Contract Documents Committee, the Associated General Contractors of America, and the American Institute of Architects.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

1. Contractor and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors, and assigns to the County for the performance of the Contract, which is incorporated herein by reference.

2. If Contractor performs the Contract, Surety and Contractor have no obligation under this Bond, except to participate in conferences as provided in Paragraph 3.1.

3. If there is no the County Default, Surety's obligation under this Bond shall arise after:

   3.1 The County has notified Contractor and Surety, at the address described in Paragraph 10 below, that the County is considering declaring a Contractor Default and has requested and attempted to arrange a conference with Contractor and Surety to be held not later than 15 days after receipt of such notice to discuss methods of performing the Contract. If the County, Contractor and Surety agree, Contractor shall be allowed a reasonable time to perform the Contract, but such an agreement shall not waive the County's right, if any, subsequently to declare a Contractor Default; and

   3.2 The County has declared a Contractor Default and formally terminated Contractor's right to complete the Contract. Such Contractor Default shall not be declared earlier than 20 days after Contractor and Surety have received notice as provided in Paragraph 3.1; and

   3.3 The County has agreed to pay the Balance of the Contract Price to:

      1. Surety in accordance with the terms of the Contract; or

      2. Another contractor selected pursuant to Paragraph 4.3 to perform the Contract.

4. When the County has satisfied the conditions of Paragraph 3, Surety shall promptly, and at Surety's expense, take one of the following actions:

   4.1 Arrange for Contractor, with consent of the County, to perform and complete the Contract, or

   4.2 Undertake to perform and complete the Contract itself, through its agents or through independent contractors, or

   4.3 Obtain bids or negotiated proposals from qualified contractors acceptable to the County for a contract for performance and completion of the Contract, arrange for a contract to be prepared for execution by the County and contractor selected with the County's concurrence, to be secured with performance and payment bonds executed by a qualified surety equivalent to the bonds issued on the Contract, and pay to the County the amount of

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damages as described in Paragraph 6 in excess of the Balance of the Contract Price incurred by the County resulting from Contractor Default; or

4.4 Waive its right to perform and complete, arrange for completion, or obtain a new contractor and with reasonable promptness under the circumstances:

1. After investigation, determine the amount for which it may be liable to the County and, as soon as practicable after the amount is determined, tender payment therefore to the County; or

2. Deny liability in whole or in part and notify the County citing reasons therefore.

5. If Surety does not proceed as provided in Paragraph 4 with reasonable promptness, Surety shall be deemed to be in default on this Bond 15 days after receipt of an additional written notice from the County to Surety demanding that Surety perform its obligations under this Bond, and the County shall be entitled to enforce any remedy available to the County. If Surety proceeds as provided in Paragraph 4.4 and the County refuses the payment tendered or Surety has denied liability, in whole or in part, without further notice the County shall be entitled to enforce any remedy available to the County.

6. After the County has terminated Contractor's right to complete the Contract, and if Surety elects to act under Paragraph 4.1, 4.2, or 4.3 above, then the responsibilities of Surety to the County shall not be greater than those of Contractor under the Contract, and the responsibilities of the County to Surety shall not be greater than those of the County under the Contract. To a limit of the amount of this Bond, but subject to commitment by the County of the Balance of the Contract Price to mitigation of costs and damages on the Contract, Surety is obligated without duplication for:

6.1 The responsibilities of Contractor for correction of defective Work and completion of the Contract;

6.2 Additional legal, design professional, and delay costs resulting from Contractor's Default, and resulting from the actions or failure to act of Surety under Paragraph 4; and

6.3 Liquidated damages, or if no liquidated damages are specified in the Contract, actual damages caused by delayed performance or non-performance of Contractor.

7. Surety shall not be liable to the County or others for obligations of Contractor that are unrelated to the Contract, and the Balance of the Contract Price shall not be reduced or set off on account of any such unrelated obligations. No right of action shall accrue on this Bond to any person or entity other than the County or its heirs, executors, administrators, or successors.

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8. Surety hereby waives notice of any change, including changes of time, to Contract or to related subcontracts, purchase orders, and other obligations.

9. Any proceeding, legal or equitable, under this Bond may by instituted in any court of competent jurisdiction in the location in which the Work or part of the Work is located and shall be instituted within two years after Contractor Default or within two years after Contractor ceased working or within two years after Surety refuses or fails to perform its obligations under this Bond, whichever occurs first. If the provisions of this paragraph are void or prohibited by law, the minimum period of limitation available to sureties as a defense in the jurisdiction of the suit shall be applicable.

10. Notice to Surety, the County, or Contractor shall be mailed or delivered to the address shown on the signature page.

11. When this Bond has been furnished to comply with a statutory requirement in the location where the Contract was to be performed, any provision in this Bond conflicting with said statutory requirement shall be deemed deleted herefrom and provisions conforming to such statutory requirement shall be deemed incorporated herein. The intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

12. Definitions

    12.1 Balance of the Contract Price: The total amount payable by the County to Contractor under the Contract after all proper adjustments have been made, including allowance to Contractor of any amounts received or to be received by the County in settlement of insurance or other Claims for damages to which Contractor is entitled, reduced by all valid and proper payments made to or on behalf of Contractor under the Contract.

    12.2 Contract: The agreement between the County and Contractor identified on the signature page, including all Contract Documents and changes thereto.

    12.3 Contractor Default: Failure of Contractor, which has neither been remedied nor waived, to perform or otherwise to comply with the terms of the Contract.

    12.4 The County Default: Failure of the County, which has neither been remedied nor waived, to pay Contractor as required by the Contract or to perform and complete or otherwise comply with the other terms thereof.

FOR INFORMATION ONLY – (*Name, Address and Telephone*)

Surety Agency or Broker:

Owner's Representative (*Engineer or other party*):

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

SECTION 00 61 16

PAYMENT BOND

Any singular reference to Contractor, Surety, Owner, or other party shall be considered plural where applicable.

CONTRACTOR (*Name and Address*):

SURETY (*Name and Address of Principal Place of Business*):

OWNER (*Name and Address*):

CONTRACT

Effective Date of Agreement:
Amount:
Description (*Name and Location*):

BOND

Bond Number:
Date (*Not earlier than Effective Date of Agreement*):
Amount:
Modifications to this Bond Form:

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Surety and Contractor, intending to be legally bound hereby, subject to the terms set forth below, do each cause this Payment Bond to be duly executed by an authorized officer, agent, or representative.

CONTRACTOR AS PRINCIPAL	**SURETY**
_____ (Seal)	_____ (Seal)
Contractor's Name and Corporate Seal	Surety's Name and Corporate Seal
By: _____	By: _____
Signature	Signature (Attach Power of Attorney)
_____	_____
Print Name	Print Name
_____	_____
Title	Title
Attest: _____	Attest: _____
Signature	Signature
_____	_____
Title	Title

Note: Provide execution by additional parties, such as joint ventures, if necessary.

EJCDC No. C-615(A) (2007 Edition)
Originally prepared through the joint efforts of the Surety Association of America, Engineers Joint Contract Documents Committee, the Associated General Contractors of America, the American Institute of Architects, the American Subcontractors Association, and the Associated Specialty Contractors.

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1. Contractor and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors, and assigns to the County to pay for labor, materials, and equipment furnished by Claimants for use in the performance of the Contract, which is incorporated herein by reference.

2. With respect to the County, this obligation shall be null and void if Contractor:

   2.1 Promptly makes payment, directly or indirectly, for all sums due Claimants, and

   2.2 Defends, indemnifies, and holds harmless the County from all claims, demands, liens or suits alleging non-payment by Contractor by any person or entity who furnished labor, materials, or equipment for use in the performance of the Contract, provided the County has promptly notified Contractor and Surety (at the addresses described in Paragraph 12) of any claims, demands, liens, or suits and tendered defense of such claims, demands, liens, or suits to Contractor and Surety, and provided there is no the County Default.

3. With respect to Claimants, this obligation shall be null and void if Contractor promptly makes payment, directly or indirectly, for all sums due.

4. Surety shall have no obligation to Claimants under this Bond until:

   4.1 Claimants who are employed by or have a direct contract with Contractor have given notice to Surety (at the addresses described in Paragraph 12) and sent a copy, or notice thereof, to the County, stating that a claim is being made under this Bond and, with substantial accuracy, the amount of the claim.

   4.2 Claimants who do not have a direct contract with Contractor:

      1. Have furnished written notice to Contractor and sent a copy, or notice thereof, to the County, within 90 days after having last performed labor or last furnished materials or equipment included in the claim stating, with substantial accuracy, the amount of the claim and the name of the party to whom the materials or equipment were furnished or supplied, or for whom the labor was done or performed; and

      2. Have either received a rejection in whole or in part from Contractor, or not received within 30 days of furnishing the above notice any communication from Contractor by which Contractor had indicated the claim will be paid directly or indirectly; and

      3. Not having been paid within the above 30 days, have sent a written notice to Surety (at the address described in Paragraph 12) and sent a copy, or notice thereof,

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

to the County, stating that a claim is being made under this Bond and enclosing a copy of the previous written notice furnished to Contractor.

5. If a notice by a Claimant required by Paragraph 4 is provided by the County to Contractor or to Surety, that is sufficient compliance.

6. When a Claimant has satisfied the conditions of Paragraph 4, the Surety shall promptly and at Surety's expense take the following actions:

   6.1 Send an answer to that Claimant, with a copy to the County, within 45 days after receipt of the claim, stating the amounts that are undisputed and the basis for challenging any amounts that are disputed.

   6.2 Pay or arrange for payment of any undisputed amounts.

7. Surety's total obligation shall not exceed the amount of this Bond, and the amount of this Bond shall be credited for any payments made in good faith by Surety.

8. Amounts owed by the County to Contractor under the Contract shall be used for the performance of the Contract and to satisfy claims, if any, under any performance bond. By Contractor furnishing and the County accepting this Bond, they agree that all funds earned by Contractor in the performance of the Contract are dedicated to satisfy obligations of Contractor and Surety under this Bond, subject to the County's priority to use the funds for the completion of the Work.

9. Surety shall not be liable to the County, Claimants, or others for obligations of Contractor that are unrelated to the Contract. The County shall not be liable for payment of any costs or expenses of any Claimant under this Bond, and shall have under this Bond no obligations to make payments to, give notices on behalf of, or otherwise have obligations to Claimants under this Bond.

10. Surety hereby waives notice of any change, including changes of time, to the Contract or to related Subcontracts, purchase orders and other obligations.

11. No suit or action shall be commenced by a Claimant under this Bond other than in a court of competent jurisdiction in the location in which the Work or part of the Work is located or after the expiration of one year from the date (1) on which the Claimant gave the notice required by Paragraph 4.1 or Paragraph 4.2, or (2) on which the last labor or service was performed by anyone or the last materials or equipment were furnished by anyone under the Contract, whichever of (1) or (2) first occurs. If the provisions of this paragraph are void or prohibited by law, the minimum period of limitation available to sureties as a defense in the jurisdiction of the suit shall be applicable.

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12. Notice to Surety, the County, or Contractor shall be mailed or delivered to the addresses shown on the signature page. Actual receipt of notice by Surety, the County, or Contractor, however accomplished, shall be sufficient compliance as of the date received at the address shown on the signature page.

13. When this Bond has been furnished to comply with a statutory requirement in the location where the Contract was to be performed, any provision in this Bond conflicting with said statutory requirement shall be deemed deleted herefrom and provisions conforming to such statutory requirement shall be deemed incorporated herein. The intent is that this Bond shall be construed as a statutory Bond and not as a common law bond.

14. Upon request of any person or entity appearing to be a potential beneficiary of this Bond, Contractor shall promptly furnish a copy of this Bond or shall permit a copy to be made.

15. Definitions

15.1 Claimant: An individual or entity having a direct contract with Contractor, or with a first-tier subcontractor of Contractor, to furnish labor, materials, or equipment for use in the performance of the Contract. The intent of this Bond shall be to include without limitation in the terms "labor, materials or equipment" that part of water, gas, power, light, heat, oil, gasoline, telephone service, or rental equipment used in the Contract, architectural and engineering services required for performance of the Work of Contractor and Contractor's subcontractors, and all other items for which a mechanic's lien may be asserted in the jurisdiction where the labor, materials, or equipment were furnished.

15.2 Contract: The agreement between the County and Contractor identified on the signature page, including all Contract Documents and changes thereto.

15.3 The County Default: Failure of the County, which has neither been remedied nor waived, to pay Contractor as required by the Contract, or to perform and complete or otherwise comply with the other terms thereof.

FOR INFORMATION ONLY – (*Name, Address and Telephone*)

Surety Agency or Broker:

Owner's Representative (*Engineer or other party*):

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

SECTION 00 62 76

APPLICATION AND CERTIFICATE FOR PROGRESS PAYMENT

OWNER: _____

CONTRACTOR: _____

Purchase Order No.: _____ Project Title: _____

Engineer/Architect: _____

Engineer/Architect Project No.: _____Contract Number: _____

Progress Payment No.: _____ for Period _____ to _____

1. Original Contract Sum. . . . . $_____

2. Net Change by Change Orders . . . . . $_____

3. Contract Sum to Date (Line 1 + Line 2) . . . . . $_____

4. Work Completed to Date . . . . . $_____

5. Amount Retained (Percent) . . . . . $_____

6. Total Earned Less Retainage (Line 4 minus Line 5). . . . . $_____

7. Less Previous Payments. . . . . $_____

8. CURRENT PAYMENT DUE. . . . . $_____

CERTIFICATION OF CONTRACTOR

The undersigned CONTRACTOR certifies that (1) all previous progress payments received from OWNER on account of Work done under the Contract referred to above have been applied on account to discharge CONTRACTOR'S legitimate obligations incurred in connection with Work covered by prior Applications for Payment numbered 1 through _____ inclusive; (2) title of all Work, materials and equipment incorporated in said Work or otherwise listed in or covered by this Application for Payment will pass to OWNER at time of payment free and clear of all Liens, security interests and encumbrances (except such as are covered by a Bond acceptable to OWNER indemnifying OWNER against any such Lien, security interest or encumbrance); and (3) all Work covered by this Application for Payment is in accordance with the Contract Documents and is not defective.

_____ _____

Contractor Date

By: _____ _____

(Authorized Representative) Title

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

CERTIFICATION OF ENGINEER / ARCHITECT

In accordance with the Contract Documents, based upon on-site observations by the undersigned or duly authorized representatives or assistants, the Engineer / Architect certifies to the Owner that to the best of its knowledge, information and belief, the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED:……..$_____
(Attach explanation if amount certified differs from the amount applied for)

ENGINEER / ARCHITECT:

By: _____ _____ _____
(Date) (Firm)

AFFIDAVIT OF CONTRACTOR

STATE OF _____

COUNTY OF _____
Before me this day personally appeared _____ who, being first duly sworn, deposes and says:

That he is the _____ of _____, and the Contractor on the following described public works project:

JOB DESCRIPTION: _____

CONTRACTING AUTHORITY: ____Nassau County Board of County Commissioners_____

That all persons who furnish labor, supplies or materials or did work in connection with such improvements set out in the CONTRACT have been paid, to date, in full, including all subcontractors. AND FURTHER AFFIANT SAYETH NOT.

By:_____

WITNESS my hand and official seal, this _____ day of _____, 20_____.

_____
Notary Public
My Commission Expires:

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Project Title: _____ County Purchase Order No.: _____

Progress Payment No.: _____ Engineer / Architect Project No.: _____

Item No.	Pay Item	Description of Item	ORIGINAL ESTIMATE				PREVIOUSLY COMPLETED		COMPLETED THIS PERIOD		COMPLETED TO DATE		
			Unit	Qty. Bid	Unit Cost	Amount	Quan.	Amount	Quan.	Amount	Quan.	Amount	Percent Complete

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SECTION 00 63 15

CONTRACTOR'S REQUEST FOR INFORMATION

TO: _____

FROM: _____(CONTRACTOR) DATE: _____

CONTRACTOR REQUEST FOR INFORMATION NO.: _____

PROJECT NAME: _____

CONTRACT NUMBER: _____ PURCHASE ORDER NO.: _____

QUESTION:

_____
_____
_____
_____
_____
_____
_____

BY: _____ DATE: _____

REPLY:

_____
_____
_____
_____
_____
_____
_____

BY: _____ DATE: _____

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

SECTION 00 63 36

FIELD ORDER

PROJECT: _____ REQUEST NO: _____

CONTRACT NO.: _____ PURCHASE ORDER NO.: _____

CONTRACTOR: _____

You are hereby directed to execute promptly this Field Order which interprets the Contract Documents or orders minor changes in the Work without change in Contract Price or Contract Time.

If you consider that a change in Contract Price or Contract Time is required, please submit a Work Change Directive to the County immediately and before proceeding with this Work.

Field Order: _____

_____

_____

_____

Attachments: (Listing of attached documents that support description)

1. Work Change Directive No _____

2. _____

3. _____

4. _____

5. _____

BY: _____ DATE: _____

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

SECTION 00 63 49

WORK CHANGE DIRECTIVE

PROJECT: _____ REQUEST NO: _____

CONTRACT NO.: _____ PURCHASE ORDER NO.: _____

CONTRACTOR: _____

You are directed to proceed promptly with the following change(s):

Description: _____

_____

_____

Purpose of Work Directive Change: _____

_____

_____

Attachments: _____

_____

If a claim is made that the above change(s) have affected the Contract Price or Contract Time, any claim for a Change Order based thereon will involve one of the following methods of determining the effect of the change(s).

Method of determining a change in Contract Price:
[ ] Time and materials
[ ] Unit prices
[ ] Cost plus fixed fee
[ ] Other _____
Estimated increase (decrease) in Contract Price: $ _____
If the change involves an increase, the estimated amount is not to be exceeded without further authorization.

Method of determining change in Contract Time:
[ ] Contractor's records
[ ] Owner's records
[ ] Other _____
Estimated increase (decrease) in Contract Time: _____ days.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

If the change involves an increase, the estimated time is not to be exceeded without further authorization.

AUTHORIZED BY: DATE:

_____ _____

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

SECTION 00 63 63

CHANGE ORDER REQUEST FORM

(Instructions on 00 63 63-2) No.

PROJECT

DATE OF ISSUANCE EFFECTIVE DATE

NASSAU COUNTY BOARD OF COUNTY COMMISSIONERS

COUNTY Contract / Purchase Order No.:

CONTRACTOR- ENGINEER / ARCHITECT-

You are directed to make the following changes in the Contract Documents.

Attachments: (List documents supporting change)

CHANGE IN CONTRACT PRICE: Original Contract Price $_____	CHANGE IN CONTRACT TIMES: Original Contract Times Substantial Completion:_____ (days or dates) Ready for Final Payment:_____ (days or dates)
Net change from previous Change Orders No.___ to No.___ $_____	Net change from previous Change Orders No.___ to No.___ _____ (days)
Contract Price prior to this Change Order $_____	Contract Times Prior to this Change Order Substantial Completion:_____ (days or dates) Ready for Final Payment:_____ (days or dates)
Net Increase (decrease) of this Change Order $_____	Net Increase (decrease) of this Change Order _____ (days)
Contract Price with all approved Change Orders $_____	Contract Times with all approved Change Orders Substantial Completion:_____ (days or dates) Ready for Final Payment:_____ (days or dates)

RECOMMENDED:	APPROVED:	ACCEPTED:
By:_____ Engineer/Architect (Authorized Signature)	By:_____ COUNTY (Authorized Signature)	By:_____ Contractor (Authorized Signature)
Date: _____	Date: _____	Date:_____

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CHANGE ORDER

INSTRUCTIONS

A. GENERAL INFORMATION

This document was developed to provide a uniform format for handling contract changes that affect Contract Price or Contract Times. Changes that have been initiated by a Work Change Directive must be incorporated into a subsequent Change Order if they affect Contract Price or Times.

Changes that affect Contract Price or Contract Times should be promptly covered by a Change Order. The practice of accumulating change order items to reduce the administrative burden may lead to unnecessary disputes.

If Milestones have been listed, any effect of a Change Order, thereon, should be addressed.

For supplemental instructions and minor changes not involving a change in the Contract Price or Contract Times, a Field Order may be used.

B. COMPLETING THE CHANGE ORDER FORM

Engineer / Architect / Etc. initiates the form, including a description of the changes involved and attachments based upon documents and proposals submitted by Contractor, or requests from the County or both.

Once Engineer / Architect / Etc. has completed and signed the form, all copies should be sent to Contractor for approval. After approval by Contractor, all copies should be sent to the County for approval. Engineer should make distribution of executed copies after approval by the County.

If a change only applies to Contract Price or to Contract Times, cross out the part of the tabulation that does not apply.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

SECTION 00 65 16

CERTIFICATE OF SUBSTANTIAL COMPLETION

Project: _____

Purchase Order No.: _____ Contract No.: _____

This Certificate of Substantial Completion applies to:

[ ] All work under Contract [ ] Portion of work described as follows:

The Work to which this Certificate applies has been inspected by authorized representatives of the COUNTY and the CONTRACTOR and that Work is hereby declared to be substantially complete in accordance with the Contract Documents on: _____.

DATE

A tentative list of items to be completed or corrected is attached hereto. This list may not be all-inclusive, and the failure to include an item in it does not alter the responsibility of CONTRACTOR to complete all the Work in accordance with the Contract Documents. The items in the tentative list shall be completed or corrected by CONTRACTOR within _____ days of the above date of Substantial Completion.

The date of Substantial Completion is the date upon which all guarantees and warranties begin.

SIGNED:

NASSAU COUNTY CONSTRUCTION INSPECTOR (if applicable)

By: _____ DATE: _____

NASSAU COUNTY PROJECT MANAGER

By: _____ DATE: _____

NASSAU COUNTY DEPARTMENT REPRESENTATIVE

By: _____ DATE: _____

ENGINEER OF RECORD:

_____

By: _____ DATE: _____

CONTRACTOR:

_____

By: _____ DATE: _____

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SECTION 00 65 16

TENTATIVE LIST OF ITEMS TO BE COMPLETED OR CORRECTED
(PUNCH LIST)

Date: _____ Contract No.: _____ Purchase Order No.: _____

Project: _____

Contractor: _____

This list may not be all-inclusive, and the failure to include an item does not alter the responsibility of the CONTRACTOR to complete all the Work in accordance with the Contract Documents.

NO:	ITEM:
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
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_____	_____
_____	_____
_____	_____

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SECTION 00 65 19

CERTIFICATE OF FINAL COMPLETION

Project: _____

Purchase Order No.: _____ Contract No.: _____

This Certificate of Final Completion applies to:

The Work under this Contract has been inspected by authorized representatives of the COUNTY and the CONTRACTOR and all Work is hereby declared to be complete in accordance with the Contract Documents on: _____

DATE

SIGNED:

NASSAU COUNTY CONSTRUCTION INSPECTOR (if applicable)

By: _____ DATE: _____

NASSAU COUNTY PROJECT MANAGER

By: _____ DATE: _____

NASSAU COUNTY DEPARTMENT REPRESENTATIVE

By: _____ DATE: _____

ENGINEER OF RECORD:

_____

By: _____ DATE: _____

CONTRACTOR:

_____

By: _____ DATE: _____

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SECTION 00 65 20

WAIVER AND RELEASE OF LIEN UPON PROGRESS PAYMENT

The undersigned lienor, in consideration of the progress payment in the amount of $_____ , hereby waives and releases its lien and right to claim a lien for labor, services or materials furnished through (date) _____to (customer) _____on the job of (COUNTY property) _____, to the following described property:

This waiver and release does not cover any retention of labor, services, or materials furnished after the date specified.

Dated on_____ , 20____ .

Lienor's Name_____

Address_____

_____

By_____

Printed_____

NOTE: This is a statutory form prescribed by Section 713.20, Florida Statutes.

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SECTION 00 65 21

WAIVER AND RELEASE OF LIEN UPON FINAL PAYMENT

The undersigned lienor, in consideration of the final payment in the amount of $ _____, hereby waives and releases its lien and right to claim a lien for labor, services or materials furnished through (date) _____to (customer)_____ on the job of (COUNTY property)_____ to the following described property:

Dated on_____ , 20_____ .

Lienor's Name_____

Address_____

_____

By_____

Printed_____

NOTE: This is a statutory form prescribed by Section 713.20, Florida Statutes.

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STANDARD GENERAL CONDITIONS OF THE CONSTRUCTION CONTRACT

Prepared By

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STANDARD GENERAL CONDITIONS OF THE CONSTRUCTION CONTRACT

TABLE OF CONTENTS

Page

Article 1—Definitions and Terminology 1
1.01 Defined Terms 1
1.02 Terminology 6
Article 2—Preliminary Matters 7
2.01 Delivery of Performance and Payment Bonds; Evidence of Insurance 7
2.02 Copies of Documents 7
2.03 Before Starting Construction 7
2.04 Preconstruction Conference; Designation of Authorized Representatives 8
2.05 Acceptance of Schedules 8
2.06 Electronic Transmittals 9
Article 3—Contract Documents: Intent, Requirements, Reuse 9
3.01 Intent 9
3.02 Reference Standards 10
3.03 Reporting and Resolving Discrepancies 10
3.04 Requirements of the Contract Documents 11
3.05 Reuse of Documents 11
Article 4—Commencement and Progress of the Work 12
4.01 Commencement of Contract Times; Notice to Proceed 12
4.02 Starting the Work 12
4.03 Reference Points 12
4.04 Progress Schedule 12
4.05 Delays in Contractor's Progress 12
Article 5—Site; Subsurface and Physical Conditions; Hazardous Environmental Conditions 14
5.01 Availability of Lands 14
5.02 Use of Site and Other Areas 14
5.03 Subsurface and Physical Conditions 15
5.04 Differing Subsurface or Physical Conditions 16

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DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

5.05 Underground Facilities 18
5.06 Hazardous Environmental Conditions at Site 20
Article 6—Bonds and Insurance 22
6.01 Performance, Payment, and Other Bonds 22
6.02 Insurance—General Provisions 23
6.03 Contractor's Insurance 25
6.04 Builder's Risk and Other Property Insurance 26
6.05 Property Losses; Subrogation 26
6.06 Receipt and Application of Property Insurance Proceeds 27
Article 7—Contractor's Responsibilities 28
7.01 Contractor's Means and Methods of Construction 28
7.02 Supervision and Superintendence 28
7.03 Labor; Working Hours 29
7.04 Services, Materials, and Equipment 29
7.05 "Or Equals" 29
7.06 Substitutes 30
7.07 Concerning Subcontractors and Suppliers 32
7.08 Patent Fees and Royalties 33
7.09 Permits 34
7.10 Taxes 34
7.11 Laws and Regulations 34
7.12 Record Documents 35
7.13 Safety and Protection 35
7.14 Hazard Communication Programs 36
7.15 Emergencies 37
7.16 Submittals 37
7.17 Contractor's General Warranty and Guarantee 40
7.18 Indemnification 41
7.19 Delegation of Professional Design Services 41
Article 8—Other Work at the Site 42
8.01 Other Work 42
8.02 Coordination 43
8.03 Legal Relationships 43

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DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

Article 9—Owner's Responsibilities 44
9.01 Communications to Contractor 44
9.02 Replacement of Engineer 44
9.03 Furnish Data 45
9.04 Pay When Due 45
9.05 Lands and Easements; Reports, Tests, and Drawings 45
9.06 Insurance 45
9.07 Change Orders 45
9.08 Inspections, Tests, and Approvals 45
9.09 Limitations on Owner's Responsibilities 45
9.10 Undisclosed Hazardous Environmental Condition 45
9.11 Evidence of Financial Arrangements 45
9.12 Safety Programs 45
Article 10—Engineer's Status During Construction 46
10.01 Owner's Representative 46
10.02 Visits to Site 46
10.03 Resident Project Representative 46
10.04 Engineer's Authority 46
10.05 Determinations for Unit Price Work 47
10.06 Decisions on Requirements of Contract Documents and Acceptability of Work 47
10.07 Limitations on Engineer's Authority and Responsibilities 47
10.08 Compliance with Safety Program 47
Article 11—Changes to the Contract 48
11.01 Amending and Supplementing the Contract 48
11.02 Change Orders 48
11.03 Work Change Directives 48
11.04 Field Orders 49
11.05 Owner-Authorized Changes in the Work 49
11.06 Unauthorized Changes in the Work 49
11.07 Change of Contract Price 49
11.08 Change of Contract Times 51
11.09 Change Proposals 51
11.10 Notification to Surety 52

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DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

Article 12—Claims 52
12.01 Claims 52
Article 13—Cost of the Work; Allowances; Unit Price Work 53
13.01 Cost of the Work 53
13.02 Allowances 57
13.03 Unit Price Work 57
Article 14—Tests and Inspections; Correction, Removal, or Acceptance ofDefective Work 58
14.01 Access to Work 58
14.02 Tests, Inspections, and Approvals 58
14.03 Defective Work 60
14.04 Acceptance of Defective Work 60
14.05 Uncovering Work 60
14.06 Owner May Stop the Work 61
14.07 Owner May Correct Defective Work 61
Article 15—Payments to Contractor; Set-Offs; Completion; Correction Period 62
15.01 Progress Payments 62
15.02 Contractor's Warranty of Title 65
15.03 Substantial Completion 65
15.04 Partial Use or Occupancy 66
15.05 Final Inspection 67
15.06 Final Payment 67
15.07 Waiver of Claims 68
15.08 Correction Period 68
Article 16—Suspension of Work and Termination 69
16.01 Owner May Suspend Work 69
16.02 Owner May Terminate for Cause 70
16.03 Owner May Terminate for Convenience 71
16.04 Contractor May Stop Work or Terminate 71
Article 17—Final Resolution of Disputes 72
17.01 Methods and Procedures 72
Article 18—Miscellaneous 72
18.01 Giving Notice 72
18.02 Computation of Times 72

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DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

18.03 Cumulative Remedies 72
18.04 Limitation of Damages 73
18.05 No Waiver 73
18.06 Survival of Obligations 73
18.07 Controlling Law 73
18.08 Assignment of Contract 73
18.09 Successors and Assigns 73
18.10 Headings 73

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DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

STANDARD GENERAL CONDITIONS OF THE CONSTRUCTION CONTRACT

ARTICLE 1—DEFINITIONS AND TERMINOLOGY

1.01 Defined Terms

A. Wherever used in the Bidding Requirements or Contract Documents, a term printed with initial capital letters, including the term's singular and plural forms, will have the meaning indicated in the definitions below. In addition to terms specifically defined, terms with initial capital letters in the Contract Documents include references to identified articles and paragraphs, and the titles of other documents or forms.

1. *Addenda*—Written or graphic instruments issued prior to the opening of Bids which clarify, correct, or change the Bidding Requirements or the proposed Contract Documents.

2. *Agreement*—The written instrument, executed by Owner and Contractor, that sets forth the Contract Price and Contract Times, identifies the parties and the Engineer, and designates the specific items that are Contract Documents.

3. *Application for Payment*—The document prepared by Contractor, in a form acceptable to Engineer, to request progress or final payments, and which is to be accompanied by such supporting documentation as is required by the Contract Documents.

4. *Bid*—The offer of a Bidder submitted on the prescribed form setting forth the prices for the Work to be performed.

5. *Bidder*—An individual or entity that submits a Bid to Owner.

6. *Bidding Documents*—The Bidding Requirements, the proposed Contract Documents, and all Addenda.

7. *Bidding Requirements*—The Advertisement or invitation to bid, Instructions to Bidders, Bid Bond or other Bid security, if any, the Bid Form, and the Bid with any attachments.

8. *Change Order*—A document which is signed by Contractor and Owner and authorizes an addition, deletion, or revision in the Work or an adjustment in the Contract Price or the Contract Times, or other revision to the Contract, issued on or after the Effective Date of the Contract.

9. *Change Proposal*—A written request by Contractor, duly submitted in compliance with the procedural requirements set forth herein, seeking an adjustment in Contract Price or Contract Times; contesting an initial decision by Engineer concerning the requirements of the Contract Documents or the acceptability of Work under the Contract Documents; challenging a set-off against payments due; or seeking other relief with respect to the terms of the Contract.

10. Claim

a. A demand or assertion by Owner directly to Contractor, duly submitted in compliance with the procedural requirements set forth herein, seeking an adjustment of Contract Price or Contract Times; contesting an initial decision by Engineer concerning the

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requirements of the Contract Documents or the acceptability of Work under the Contract Documents; contesting Engineer's decision regarding a Change Proposal; seeking resolution of a contractual issue that Engineer has declined to address; or seeking other relief with respect to the terms of the Contract.

b. A demand or assertion by Contractor directly to Owner, duly submitted in compliance with the procedural requirements set forth herein, contesting Engineer's decision regarding a Change Proposal, or seeking resolution of a contractual issue that Engineer has declined to address.

c. A demand or assertion by Owner or Contractor, duly submitted in compliance with the procedural requirements set forth herein, made pursuant to Paragraph 12.01.A.4, concerning disputes arising after Engineer has issued a recommendation of final payment.

d. A demand for money or services by a third party is not a Claim.

11. *Constituent of Concern*—Asbestos, petroleum, radioactive materials, polychlorinated biphenyls (PCBs), lead-based paint (as defined by the HUD/EPA standard), hazardous waste, and any substance, product, waste, or other material of any nature whatsoever that is or becomes listed, regulated, or addressed pursuant to Laws and Regulations regulating, relating to, or imposing liability or standards of conduct concerning, any hazardous, toxic, or dangerous waste, substance, or material.

12. *Contract*—The entire and integrated written contract between Owner and Contractor concerning the Work.

13. *Contract Documents*—Those items so designated in the Agreement, and which together comprise the Contract.

14. *Contract Price*—The money that Owner has agreed to pay Contractor for completion of the Work in accordance with the Contract Documents.

15. *Contract Times*—The number of days or the dates by which Contractor shall: (a) achieve Milestones, if any; (b) achieve Substantial Completion; and (c) complete theWork.

16. *Contractor*—The individual or entity with which Owner has contracted for performance of the Work.

17. *Cost of the Work*—See Paragraph 13.01 for definition.

18. *Drawings*—The part of the Contract that graphically shows the scope, extent, and character of the Work to be performed by Contractor.

19. *Effective Date of the Contract*—The date, indicated in the Agreement, on which the Contract becomes effective.

20. *Electronic Document*—Any Project-related correspondence, attachments to correspondence, data, documents, drawings, information, or graphics, including but not limited to Shop Drawings and other Submittals, that are in an electronic or digital format.

21. *Electronic Means*—Electronic mail (email), upload/download from a secure Project website, or other communications methods that allow: (a) the transmission or communication of Electronic Documents; (b) the documentation of transmissions, including sending and receipt; (c) printing of the transmitted Electronic Document by the

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recipient; (d) the storage and archiving of the Electronic Document by sender and recipient; and (e) the use by recipient of the Electronic Document for purposes permitted by this Contract. Electronic Means does not include the use of text messaging, or of Facebook, Twitter, Instagram, or similar social media services for transmission of Electronic Documents.

22. *Engineer*—The individual or entity named as such in the Agreement.

23. *Field Order*—A written order issued by Engineer which requires minor changes in the Work but does not change the Contract Price or the Contract Times.

24. *Hazardous Environmental Condition*—The presence at the Site of Constituents of Concern in such quantities or circumstances that may present a danger to persons or property exposed thereto.

    a. The presence at the Site of materials that are necessary for the execution of the Work, or that are to be incorporated into the Work, and that are controlled and contained pursuant to industry practices, Laws and Regulations, and the requirements of the Contract, is not a Hazardous Environmental Condition.

    b. The presence of Constituents of Concern that are to be removed or remediated as part of the Work is not a Hazardous Environmental Condition.

    c. The presence of Constituents of Concern as part of the routine, anticipated, and obvious working conditions at the Site, is not a Hazardous Environmental Condition.

25. *Laws and Regulations; Laws or Regulations*—Any and all applicable laws, statutes, rules, regulations, ordinances, codes, and binding decrees, resolutions, and orders of any and all governmental bodies, agencies, authorities, and courts having jurisdiction.

26. *Liens*—Charges, security interests, or encumbrances upon Contract-related funds, real property, or personal property.

27. *Milestone*—A principal event in the performance of the Work that the Contract requires Contractor to achieve by an intermediate completion date, or by a time prior to Substantial Completion of all the Work.

28. *Notice of Award*—The written notice by Owner to a Bidder of Owner's acceptance of the Bid.

29. *Notice to Proceed*—A written notice by Owner to Contractor fixing the date on which the Contract Times will commence to run and on which Contractor shall start to perform the Work.

30. *Owner*—The individual or entity with which Contractor has contracted regarding the Work, and which has agreed to pay Contractor for the performance of the Work, pursuant to the terms of the Contract.

31. *Progress Schedule*—A schedule, prepared and maintained by Contractor, describing the sequence and duration of the activities comprising Contractor's plan to accomplish the Work within the Contract Times.

32. *Project*—The total undertaking to be accomplished for Owner by engineers, contractors, and others, including planning, study, design, construction, testing, commissioning, and start-up, and of which the Work to be performed under the Contract Documents is a part.

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33. *Resident Project Representative*—The authorized representative of Engineer assigned to assist Engineer at the Site. As used herein, the term Resident Project Representative (RPR) includes any assistants or field staff of Resident Project Representative.

34. *Samples*—Physical examples of materials, equipment, or workmanship that are representative of some portion of the Work and that establish the standards by which such portion of the Work will be judged.

35. *Schedule of Submittals*—A schedule, prepared and maintained by Contractor, of required submittals and the time requirements for Engineer's review of thesubmittals.

36. *Schedule of Values*—A schedule, prepared and maintained by Contractor, allocating portions of the Contract Price to various portions of the Work and used as the basis for reviewing Contractor's Applications for Payment.

37. *Shop Drawings*—All drawings, diagrams, illustrations, schedules, and other data or information that are specifically prepared or assembled by or for Contractor and submitted by Contractor to illustrate some portion of the Work. Shop Drawings, whether approved or not, are not Drawings and are not Contract Documents.

38. *Site*—Lands or areas indicated in the Contract Documents as being furnished by Owner upon which the Work is to be performed, including rights-of-way and easements, and such other lands or areas furnished by Owner which are designated for the use of Contractor.

39. *Specifications*—The part of the Contract that consists of written requirements for materials, equipment, systems, standards, and workmanship as applied to the Work, and certain administrative requirements and procedural matters applicable to the Work.

40. *Subcontractor*—An individual or entity having a direct contract with Contractor or with any other Subcontractor for the performance of a part of the Work.

41. *Submittal*—A written or graphic document, prepared by or for Contractor, which the Contract Documents require Contractor to submit to Engineer, or that is indicated as a Submittal in the Schedule of Submittals accepted by Engineer. Submittals may include Shop Drawings and Samples; schedules; product data; Owner-delegated designs; sustainable design information; information on special procedures; testing plans; results of tests and evaluations, source quality-control testing and inspections, and field or Site quality-control testing and inspections; warranties and certifications; Suppliers' instructions and reports; records of delivery of spare parts and tools; operations and maintenance data; Project photographic documentation; record documents; and other such documents required by the Contract Documents. Submittals, whether or not approved or accepted by Engineer, are not Contract Documents. Change Proposals, Change Orders, Claims, notices, Applications for Payment, and requests for interpretation or clarification are not Submittals.

42. *Substantial Completion*—The time at which the Work (or a specified part thereof) has progressed to the point where, in the opinion of Engineer, the Work (or a specified part thereof) is sufficiently complete, in accordance with the Contract Documents, so that the Work (or a specified part thereof) can be utilized for the purposes for which it is intended. The terms "substantially complete" and "substantially completed" as applied to all or part of the Work refer to Substantial Completion of such Work.

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43. *Successful Bidder*—The Bidder to which the Owner makes an award ofcontract.

44. *Supplementary Conditions*—The part of the Contract that amends or supplements these General Conditions.

45. *Supplier*—A manufacturer, fabricator, supplier, distributor, or vendor having a direct contract with Contractor or with any Subcontractor to furnish materials or equipment to be incorporated in the Work by Contractor or a Subcontractor.

46. Technical Data

    a. Those items expressly identified as Technical Data in the Supplementary Conditions, with respect to either (1) existing subsurface conditions at or adjacent to the Site, or existing physical conditions at or adjacent to the Site including existing surface or subsurface structures (except Underground Facilities) or (2) Hazardous Environmental Conditions at the Site.

    b. If no such express identifications of Technical Data have been made with respect to conditions at the Site, then Technical Data is defined, with respect to conditions at the Site under Paragraphs 5.03, 5.04, and 5.06, as the data contained in boring logs, recorded measurements of subsurface water levels, assessments of the condition of subsurface facilities, laboratory test results, and other factual, objective information regarding conditions at the Site that are set forth in any geotechnical, environmental, or other Site or facilities conditions report prepared for the Project and made available to Contractor.

    c. Information and data regarding the presence or location of Underground Facilities are not intended to be categorized, identified, or defined as Technical Data, and instead Underground Facilities are shown or indicated on the Drawings.

47. *Underground Facilities*—All active or not-in-service underground lines, pipelines, conduits, ducts, encasements, cables, wires, manholes, vaults, tanks, tunnels, or other such facilities or systems at the Site, including but not limited to those facilities or systems that produce, transmit, distribute, or convey telephone or other communications, cable television, fiber optic transmissions, power, electricity, light, heat, gases, oil, crude oil products, liquid petroleum products, water, steam, waste, wastewater, storm water, other liquids or chemicals, or traffic or other control systems. An abandoned facility or system is not an Underground Facility.

48. *Unit Price Work*—Work to be paid for on the basis of unit prices.

49. *Work*—The entire construction or the various separately identifiable parts thereof required to be provided under the Contract Documents. Work includes and is the result of performing or providing all labor, services, and documentation necessary to produce such construction; furnishing, installing, and incorporating all materials and equipment into such construction; and may include related services such as testing, start-up, and commissioning, all as required by the Contract Documents.

50. *Work Change Directive*—A written directive to Contractor issued on or after the Effective Date of the Contract, signed by Owner and recommended by Engineer, ordering an addition, deletion, or revision in the Work.

51. *Engineer of Record* – The individual or entity named as such, or the Design Engineer, in the Agreement and has the authority set forth in the Standard General Conditions.

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52. *Surety* – The person, firm, or corporation which is bound by the contract bonds with and for Contractor (Principal); and which is held and firmly bound unto Owner for the conditions of obligations set forth in said bonds.

1.02 Terminology

A. The words and terms discussed in Paragraphs 1.02.B, C, D, and E are not defined terms that require initial capital letters, but, when used in the Bidding Requirements or Contract Documents, have the indicated meaning.

B. *Intent of Certain Terms or Adjectives*: The Contract Documents include the terms "as allowed," "as approved," "as ordered," "as directed" or terms of like effect or import to authorize an exercise of professional judgment by Engineer. In addition, the adjectives "reasonable," "suitable," "acceptable," "proper," "satisfactory," or adjectives of like effect or import are used to describe an action or determination of Engineer as to the Work. It is intended that such exercise of professional judgment, action, or determination will be solely to evaluate, in general, the Work for compliance with the information in the Contract Documents and with the design concept of the Project as a functioning whole as shown or indicated in the Contract Documents (unless there is a specific statement indicating otherwise). The use of any such term or adjective is not intended to and shall not be effective to assign to Engineer any duty or authority to supervise or direct the performance of the Work, or any duty or authority to undertake responsibility contrary to the provisions of Article 10 or any other provision of the Contract Documents.

C. *Day*: The word "day" means a calendar day of 24 hours measured from midnight to the next midnight.

D. *Defective*: The word "defective," when modifying the word "Work," refers to Work that is unsatisfactory, faulty, or deficient in that it:

1. does not conform to the Contract Documents;

2. does not meet the requirements of any applicable inspection, reference standard, test, or approval referred to in the Contract Documents; or

3. has been damaged prior to Engineer's recommendation of final payment (unless responsibility for the protection thereof has been assumed by Owner at Substantial Completion in accordance with Paragraph 15.03 or Paragraph 15.04).

E. Furnish, Install, Perform, Provide

1. The word "furnish," when used in connection with services, materials, or equipment, means to supply and deliver said services, materials, or equipment to the Site (or some other specified location) ready for use or installation and in usable or operable condition.

2. The word "install," when used in connection with services, materials, or equipment, means to put into use or place in final position said services, materials, or equipment complete and ready for intended use.

3. The words "perform" or "provide," when used in connection with services, materials, or equipment, means to furnish and install said services, materials, or equipment complete and ready for intended use.

4. If the Contract Documents establish an obligation of Contractor with respect to specific services, materials, or equipment, but do not expressly use any of the four words

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"furnish," "install," "perform," or "provide," then Contractor shall furnish and install said services, materials, or equipment complete and ready for intended use.

F. *Contract Price or Contract Times*: References to a change in "Contract Price or Contract Times" or "Contract Times or Contract Price" or similar, indicate that such change applies to (1) Contract Price, (2) Contract Times, or (3) both Contract Price and Contract Times, as warranted, even if the term "or both" is not expressed.

G. Unless stated otherwise in the Contract Documents, words or phrases that have a well-known technical or construction industry or trade meaning are used in the Contract Documents in accordance with such recognized meaning.

ARTICLE 2—PRELIMINARY MATTERS

2.01 Delivery of Performance and Payment Bonds; Evidence of Insurance

A. *Performance and Payment Bonds*: When Contractor delivers the signed counterparts of the Agreement to Owner, Contractor shall also deliver to Owner the performance bond and payment bond (if the Contract requires Contractor to furnish such bonds).

B. *Evidence of Contractor's Insurance*: When Contractor delivers the signed counterparts of the Agreement to Owner, Contractor shall also deliver to Owner, with copies to each additional insured (as identified in the Contract), the certificates, endorsements, and other evidence of insurance required to be provided by Contractor in accordance with Article 6, except to the extent the Supplementary Conditions expressly establish other dates for delivery of specific insurance policies.

C. *Evidence of Owner's Insurance*: After receipt of the signed counterparts of the Agreement and all required bonds and insurance documentation, Owner shall promptly deliver to Contractor, with copies to each additional insured (as identified in the Contract), the certificates and other evidence of insurance required to be provided by Owner under Article 6.

2.02 Copies of Documents

A. Owner shall furnish to Contractor four printed copies of the Contract (including one fully signed counterpart of the Agreement), and one copy in electronic portable document format (PDF). Additional printed copies will be furnished upon request at the cost of reproduction.

B. Owner shall maintain and safeguard at least one original printed record version of the Contract, including Drawings and Specifications signed and sealed by Engineer and other design professionals. Owner shall make such original printed record version of the Contract available to Contractor for review. Owner may delegate the responsibilities under this provision to Engineer.

2.03 Before Starting Construction

A. *Preliminary Schedules*: Within 10 days after the Effective Date of the Contract (or as otherwise required by the Contract Documents), Contractor shall submit to Engineer for timely review:

1. a preliminary Progress Schedule indicating the times (numbers of days or dates) for starting and completing the various stages of the Work, including any Milestones specified in the Contract;

2. a preliminary Schedule of Submittals; and

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3. a preliminary Schedule of Values for all of the Work which includes quantities and prices of items which when added together equal the Contract Price and subdivides the Work into component parts in sufficient detail to serve as the basis for progress payments during performance of the Work. Such prices will include an appropriate amount of overhead and profit applicable to each item of Work.

B. Before any Work at the Site is started, Contractor shall deliver to the Owner, certificates of insurance that Contractor is required to purchase and maintain in accordance with Article5.

2.04 Preconstruction Conference; Designation of Authorized Representatives

A. Before any Work at the Site is started, a conference attended by Owner, Contractor, Engineer, and others as appropriate will be held to establish a working understanding among the parties as to the Work, and to discuss the schedules referred to in Paragraph 2.03.A, procedures for handling Shop Drawings, Samples, and other Submittals, processing Applications for Payment, electronic or digital transmittals, and maintaining required records.

B. At this conference Owner and Contractor each shall designate, in writing, a specific individual to act as its authorized representative with respect to the services and responsibilities under the Contract. Such individuals shall have the authority to transmit and receive information, render decisions relative to the Contract, and otherwise act on behalf of each respective party.

C. Owner may issue Notice to Proceed at the Preconstruction Conference. Contractor shall begin the Work within twenty-four (24) hours of the date given in the Notice to Proceed. If the Contractor does not start the Work within fourteen (14) calendar days after this date, Owner may, at his discretion, terminate Contractor in accordance with Article 16.

2.05 Acceptance of Schedules

A. At least 10 days before submission of the first Application for Payment a conference A Preconstruction Conference, attended by Contractor, Engineer, and others as appropriate, will be held to review the schedules submitted in accordance with Paragraph 2.03.A. No progress payment will be made to Contractor until acceptable schedules are submitted to Engineer.

1. The Progress Schedule will be acceptable to Engineer if it provides an orderly progression of the Work to completion within the Contract Times. Such acceptance will not impose on Engineer responsibility for the Progress Schedule, for sequencing, scheduling, or progress of the Work, nor interfere with or relieve Contractor from Contractor's full responsibility therefor.

2. Contractor's Schedule of Submittals will be acceptable to Engineer if it provides a workable arrangement for reviewing and processing the required submittals.

3. Contractor's Schedule of Values will be acceptable to Engineer as to form and substance if it provides a reasonable allocation of the Contract Price to the component parts of the Work.

4. If a schedule is not acceptable, Contractor will have an additional 10 days to revise and resubmit the schedule.

5. A schedule in accordance with the Contract shall be submitted and accepted by the Owner and engineer within thirty (30) days of NTP. Should a schedule not be accepted

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within thirty (30) days of the NTP, it will be considered a breach of contract and reason for termination of the contract for cause in accordance with the Standard General Conditions.

2.06 Electronic Transmittals

A. Except as otherwise stated elsewhere in the Contract, the Owner, Engineer, and Contractor may send, and shall accept, Electronic Documents transmitted by ElectronicMeans.

B. If the Contract does not establish protocols for Electronic Means, then Owner, Engineer, and Contractor shall jointly develop such protocols.

C. Subject to any governing protocols for Electronic Means, when transmitting Electronic Documents by Electronic Means, the transmitting party makes no representations as to long-term compatibility, usability, or readability of the Electronic Documents resulting from the recipient's use of software application packages, operating systems, or computer hardware differing from those used in the drafting or transmittal of the ElectronicDocuments.

ARTICLE 3—CONTRACT DOCUMENTS: INTENT, REQUIREMENTS, REUSE

3.01 Intent

A. The Contract Documents are complementary; what is required by one Contract Document is as binding as if required by all.

B. It is the intent of the Contract Documents to describe a functionally complete Project (or part thereof) to be constructed in accordance with the Contract Documents.

C. Unless otherwise stated in the Contract Documents, if there is a discrepancy between the electronic versions of the Contract Documents (including any printed copies derived from such electronic versions) and the printed record version, the printed record version will govern.

D. The Contract supersedes prior negotiations, representations, and agreements, whether written or oral.

E. Engineer will issue clarifications and interpretations of the Contract Documents as provided herein.

F. Any provision or part of the Contract Documents held to be void or unenforceable under any Law or Regulation will be deemed stricken, and all remaining provisions will continue to be valid and binding upon Owner and Contractor, which agree that the Contract Documents will be reformed to replace such stricken provision or part thereof with a valid and enforceable provision that comes as close as possible to expressing the intention of the stricken provision.

G. Nothing in the Contract Documents creates:

1. any contractual relationship between Owner or Engineer and any Subcontractor, Supplier, or other individual or entity performing or furnishing any of the Work, for the benefit of such Subcontractor, Supplier, or other individual or entity; or

2. any obligation on the part of Owner or Engineer to pay or to see to the payment of any money due any such Subcontractor, Supplier, or other individual or entity, except as may otherwise be required by Laws and Regulations.

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3.02 Reference Standards

A. Standards Specifications, Codes, Laws and Regulations

1. Reference in the Contract Documents to standard specifications, manuals, reference standards, or codes of any technical society, organization, or association, or to Laws or Regulations, whether such reference be specific or by implication, means the standard specification, manual, reference standard, code, or Laws or Regulations in effect at the time of opening of Bids (or on the Effective Date of the Contract if there were no Bids), except as may be otherwise specifically stated in the Contract Documents.

2. No provision of any such standard specification, manual, reference standard, or code, and no instruction of a Supplier, will be effective to change the duties or responsibilities of Owner, Contractor, or Engineer from those set forth in the part of the Contract Documents prepared by or for Engineer. No such provision or instruction shall be effective to assign to Owner or Engineer any duty or authority to supervise or direct the performance of the Work, or any duty or authority to undertake responsibility inconsistent with the provisions of the part of the Contract Documents prepared by or for Engineer.

3.03 Reporting and Resolving Discrepancies

A. Reporting Discrepancies

1. *Contractor's Verification of Figures and Field Measurements*: Before undertaking each part of the Work, Contractor shall carefully study the Contract Documents, and check and verify pertinent figures and dimensions therein, particularly with respect to applicable field measurements. Contractor shall promptly report in writing to Engineer any conflict, error, ambiguity, or discrepancy that Contractor discovers, or has actual knowledge of, and shall not proceed with any Work affected thereby until the conflict, error, ambiguity, or discrepancy is resolved by a clarification or interpretation by Engineer, or by an amendment or supplement to the Contract issued pursuant to Paragraph 11.01.

2. *Contractor's Review of Contract Documents*: If, before or during the performance of the Work, Contractor discovers any conflict, error, ambiguity, or discrepancy within the Contract Documents, or between the Contract Documents and (a) any applicable Law or Regulation, (b) actual field conditions, (c) any standard specification, manual, reference standard, or code, or (d) any instruction of any Supplier, then Contractor shall promptly report it to Engineer in writing. Contractor shall not proceed with the Work affected thereby (except in an emergency as required by Paragraph 7.15) until the conflict, error, ambiguity, or discrepancy is resolved, by a clarification or interpretation by Engineer, or by an amendment or supplement to the Contract issued pursuant to Paragraph 11.01.

3. Contractor shall not be liable to Owner or Engineer for failure to report any conflict, error, ambiguity, or discrepancy in the Contract Documents unless Contractor had actual knowledge thereof.

B. Resolving Discrepancies

1. Except as may be otherwise specifically stated in the Contract Documents, the provisions of the part of the Contract Documents prepared by or for Engineer take precedence in

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resolving any conflict, error, ambiguity, or discrepancy between such provisions of the Contract Documents and:

a. the provisions of any standard specification, manual, reference standard, or code, or the instruction of any Supplier (whether or not specifically incorporated by reference as a Contract Document); or

b. the provisions of any Laws or Regulations applicable to the performance of the Work (unless such an interpretation of the provisions of the Contract Documents would result in violation of such Law or Regulation).

3.04 Requirements of the Contract Documents

A. During the performance of the Work and until final payment, Contractor and Owner shall submit to the Engineer in writing all matters in question concerning the requirements of the Contract Documents (sometimes referred to as requests for information or interpretation—RFIs), or relating to the acceptability of the Work under the Contract Documents, as soon as possible after such matters arise. Engineer will be the initial interpreter of the requirements of the Contract Documents, and judge of the acceptability of the Work.

B. Engineer will, with reasonable promptness, render a written clarification, interpretation, or decision on the issue submitted, or initiate an amendment or supplement to the Contract Documents. Engineer's written clarification, interpretation, or decision will be final and binding on Contractor, unless it appeals by submitting a Change Proposal, and on Owner, unless it appeals by filing a Claim.

C. If a submitted matter in question concerns terms and conditions of the Contract Documents that do not involve (1) the performance or acceptability of the Work under the Contract Documents, (2) the design (as set forth in the Drawings, Specifications, or otherwise), or (3) other engineering or technical matters, then Engineer will promptly notify Owner and Contractor in writing that Engineer is unable to provide a decision or interpretation. If Owner and Contractor are unable to agree on resolution of such a matter in question, either party may pursue resolution as provided in Article 12.

3.05 Reuse of Documents

A. Contractor and its Subcontractors and Suppliers shall not:

1. have or acquire any title to or ownership rights in any of the Drawings, Specifications, or other documents (or copies of any thereof) prepared by or bearing the seal of Engineer or its consultants, including electronic media versions, or reuse any such Drawings, Specifications, other documents, or copies thereof on extensions of the Project or any other project without written consent of Owner and Engineer and specific written verification or adaptation by Engineer; or

2. have or acquire any title or ownership rights in any other Contract Documents, reuse any such Contract Documents for any purpose without Owner's express written consent, or violate any copyrights pertaining to such Contract Documents.

B. The prohibitions of this Paragraph 3.05 will survive final payment, or termination of the Contract. Nothing herein precludes Contractor from retaining copies of the Contract Documents for record purposes.

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ARTICLE 4—COMMENCEMENT AND PROGRESS OF THE WORK

4.01 Commencement of Contract Times; Notice to Proceed

A. The Contract Times will commence to run on the 30th day after the Effective Date of the Contract or, if a Notice to Proceed is given, on the day indicated in the Notice to Proceed. A Notice to Proceed may be given at any time within 30 days after the Effective Date of the Contract. In no event will the Contract Times commence to run later than the 60th day after the day of Bid opening or the 30th day after the Effective Date of the Contract, whichever date is earlier.

4.02 Starting the Work

A. Contractor shall start to perform the Work on the date when the Contract Times commence to run. No Work may be done at the Site prior to such date.

4.03 Reference Points

A. Owner shall provide engineering surveys to establish reference points for construction which in Engineer's judgment are necessary to enable Contractor to proceed with the Work. Contractor shall be responsible for laying out the Work, shall protect and preserve the established reference points and property monuments, and shall make no changes or relocations without the prior written approval of Owner. Contractor shall report to Engineer whenever any reference point or property monument is lost or destroyed or requires relocation because of necessary changes in grades or locations, and shall be responsible for the accurate replacement or relocation of such reference points or property monuments by professionally qualified personnel.

4.04 Progress Schedule

A. Contractor shall adhere to the Progress Schedule established in accordance with Paragraph 2.05 as it may be adjusted from time to time as provided below.

1. Contractor shall submit to Engineer for acceptance (to the extent indicated in Paragraph 2.05) proposed adjustments in the Progress Schedule that will not result in changing the Contract Times.

2. Proposed adjustments in the Progress Schedule that will change the Contract Times must be submitted in accordance with the requirements of Article 11.

B. Contractor shall carry on the Work and adhere to the Progress Schedule during all disputes or disagreements with Owner. No Work will be delayed or postponed pending resolution of any disputes or disagreements, or during any appeal process, except as permitted by Paragraph 16.04, or as Owner and Contractor may otherwise agree inwriting.

4.05 Delays in Contractor's Progress

A. If Owner, Engineer, or anyone for whom Owner is responsible, delays, disrupts, or interferes with the performance or progress of the Work, then Contractor shall be entitled to an equitable adjustment in Contract Price or Contract Times.

B. Contractor shall not be entitled to an adjustment in Contract Price or Contract Times for delay, disruption, or interference caused by or within the control of Contractor. Delay, disruption, and interference attributable to and within the control of a Subcontractor or Supplier shall be deemed to be within the control of Contractor.

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C. If Contractor's performance or progress is delayed, disrupted, or interfered with by unanticipated causes not the fault of and beyond the control of Owner, Contractor, and those for which they are responsible, then Contractor shall be entitled to an equitable adjustment in Contract Times. Such an adjustment will be Contractor's sole and exclusive remedy for the delays, disruption, and interference described in this paragraph. Causes of delay, disruption, or interference that may give rise to an adjustment in Contract Times under this paragraph include but are not limited to the following:

1. Severe and unavoidable natural catastrophes such as fires, floods, epidemics, and earthquakes;

2. Abnormal or adverse weather conditions. On the 21st of each month, or the next following business day, the Contractor shall submit to the Owner and Engineer a request for weather days. Failure to submit the request forfeits the right to claim weather days for that period and any previous period. The Owner will grant time extensions, on a day for day basis, for delays caused by the effects of rains or other inclement weather conditions or related adverse soil conditions that prevent the Contractor from productively performing controlling items of work resulting in:

   a. The Contractor being unable to work at lease 50% of the normal work day on pre-determined controlling work items due to adverse weather conditions.

   No additional compensation will be made for delays caused by the effects of inclement weather.

3. Acts or failures to act of third-party utility owners or other third-party entities (other than those third-party utility owners or other third-party entities performing other work at or adjacent to the Site as arranged by or under contract with Owner, as contemplated in Article 8); and

4. Acts of war or terrorism.

D. Contractor's entitlement to an adjustment of Contract Times or Contract Price is limited as follows:

1. Contractor's entitlement to an adjustment of the Contract Times is conditioned on the delay, disruption, or interference adversely affecting an activity on the critical path to completion of the Work, as of the time of the delay, disruption, or interference.

2. Contractor shall not be entitled to an adjustment in Contract Price for any delay, disruption, or interference if such delay is concurrent with a delay, disruption, or interference caused by or within the control of Contractor. Such a concurrent delay by Contractor shall not preclude an adjustment of Contract Times to which Contractor is otherwise entitled.

3. Adjustments of Contract Times or Contract Price are subject to the provisions of Article 11.

E. Each Contractor request or Change Proposal seeking an increase in Contract Times or Contract Price must be supplemented by supporting data that sets forth in detail thefollowing:

1. The circumstances that form the basis for the requested adjustment;

2. The date upon which each cause of delay, disruption, or interference began to affect the progress of the Work;

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3. The date upon which each cause of delay, disruption, or interference ceased to affect the progress of the Work;

4. The number of days' increase in Contract Times claimed as a consequence of each such cause of delay, disruption, or interference; and

5. The impact on Contract Price, in accordance with the provisions of Paragraph11.07.

Contractor shall also furnish such additional supporting documentation as Owner or Engineer may require including, where appropriate, a revised progress schedule indicating all the activities affected by the delay, disruption, or interference, and an explanation of the effect of the delay, disruption, or interference on the critical path to completion of the Work.

F. Delays, disruption, and interference to the performance or progress of the Work resulting from the existence of a differing subsurface or physical condition, an Underground Facility that was not shown or indicated by the Contract Documents, or not shown or indicated with reasonable accuracy, and those resulting from Hazardous Environmental Conditions, are governed by Article 5, together with the provisions of Paragraphs 4.05.D and4.05.E.

G. Paragraph 8.03 addresses delays, disruption, and interference to the performance or progress of the Work resulting from the performance of certain other work at or adjacent to the Site.

ARTICLE 5—SITE; SUBSURFACE AND PHYSICAL CONDITIONS; HAZARDOUS ENVIRONMENTAL CONDITIONS

5.01 Availability of Lands

A. Owner shall furnish the Site. Owner shall notify Contractor in writing of any encumbrances or restrictions not of general application but specifically related to use of the Site with which Contractor must comply in performing the Work.

B. Upon reasonable written request, Owner shall furnish Contractor with a current statement of record legal title and legal description of the lands upon which permanent improvements are to be made and Owner's interest therein as necessary for giving notice of or filing a mechanic's or construction lien against such lands in accordance with applicable Laws andRegulations.

C. Contractor shall provide for all additional lands and access thereto that may be required for temporary construction facilities or storage of materials and equipment.

D. Contractor shall provide for all additional lands and access thereto that may be required for temporary construction facilities or storage of materials and equipment. Contractor shall obtain said land rights at his own expense and without liability to the Owner. Contractor shall not enter upon private property without first obtaining written permission from the rightful property owner.

5.02 Use of Site and Other Areas

A. Limitation on Use of Site and Other Areas

1. Contractor shall confine construction equipment, temporary construction facilities, the storage of materials and equipment, and the operations of workers to the Site, adjacent areas that Contractor has arranged to use through construction easements or otherwise, and other adjacent areas permitted by Laws and Regulations, and shall not unreasonably encumber the Site and such other adjacent areas with construction equipment or other

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materials or equipment. Contractor shall assume full responsibility for (a) damage to the Site; (b) damage to any such other adjacent areas used for Contractor's operations; (c) damage to any other adjacent land or areas, or to improvements, structures, utilities, or similar facilities located at such adjacent lands or areas; and (d) for injuries and losses sustained by the owners or occupants of any such land or areas; provided that such damage or injuries result from the performance of the Work or from other actions or conduct of the Contractor or those for which Contractor is responsible.

2. If a damage or injury claim is made by the owner or occupant of any such land or area because of the performance of the Work, or because of other actions or conduct of the Contractor or those for which Contractor is responsible, Contractor shall (a) take immediate corrective or remedial action as required by Paragraph 7.13, or otherwise; (b) promptly attempt to settle the claim as to all parties through negotiations with such owner or occupant, or otherwise resolve the claim by arbitration or other dispute resolution proceeding, or in a court of competent jurisdiction; and (c) to the fullest extent permitted by Laws and Regulations, indemnify and hold harmless Owner and Engineer, and the officers, directors, members, partners, employees, agents, consultants and subcontractors of each and any of them, from and against any such claim, and against all costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to any claim or action, legal or equitable, brought by any such owner or occupant against Owner, Engineer, or any other party indemnified hereunder to the extent caused directly or indirectly, in whole or in part by, or based upon, Contractor's performance of the Work, or because of other actions or conduct of the Contractor or those for which Contractor is responsible.

B. *Removal of Debris During Performance of the Work*: During the progress of the Work the Contractor shall keep the Site and other adjacent areas free from accumulations of waste materials, rubbish, and other debris. Removal and disposal of such waste materials, rubbish, and other debris will conform to applicable Laws and Regulations.

C. *Cleaning*: Prior to Substantial Completion of the Work Contractor shall clean the Site and the Work and make it ready for utilization by Owner. At the completion of the Work Contractor shall remove from the Site and adjacent areas all tools, appliances, construction equipment and machinery, and surplus materials and shall restore to original condition all property not designated for alteration by the Contract Documents.

D. *Loading of Structures*: Contractor shall not load nor permit any part of any structure to be loaded in any manner that will endanger the structure, nor shall Contractor subject any part of the Work or adjacent structures or land to stresses or pressures that will endanger them.

5.03 Subsurface and Physical Conditions

A. *Reports and Drawings*: The Supplementary Conditions identify:

1. Those reports of explorations and tests of subsurface conditions at or adjacent to the Site that contain Technical Data;

2. Those drawings of existing physical conditions at or adjacent to the Site, including those drawings depicting existing surface or subsurface structures at or adjacent to the Site (except Underground Facilities), that contain Technical Data; and

3. Technical Data contained in such reports and drawings.

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B. *Underground Facilities*: Underground Facilities are shown or indicated on the Drawings, pursuant to Paragraph 5.05, and not in the drawings referred to in Paragraph 5.03.A. Information and data regarding the presence or location of Underground Facilities are not intended to be categorized, identified, or defined as Technical Data.

C. *Reliance by Contractor on Technical Data*: Contractor may rely upon the accuracy of the Technical Data expressly identified in the Supplementary Conditions with respect to such reports and drawings, but such reports and drawings are not Contract Documents. If no such express identification has been made, then Contractor may rely upon the accuracy of the Technical Data as defined in Paragraph 1.01.A.46.b.

D. *Limitations of Other Data and Documents*: Except for such reliance on Technical Data, Contractor may not rely upon or make any claim against Owner or Engineer, or any of their officers, directors, members, partners, employees, agents, consultants, or subcontractors, with respect to:

1. the completeness of such reports and drawings for Contractor's purposes, including, but not limited to, any aspects of the means, methods, techniques, sequences, and procedures of construction to be employed by Contractor, and safety precautions and programs incident thereto;

2. other data, interpretations, opinions, and information contained in such reports or shown or indicated in such drawings;

3. the contents of other Site-related documents made available to Contractor, such as record drawings from other projects at or adjacent to the Site, or Owner's archival documents concerning the Site; or

4. any Contractor interpretation of or conclusion drawn from any Technical Data or any such other data, interpretations, opinions, or information.

5.04 Differing Subsurface or Physical Conditions

A. *Notice by Contractor*: If Contractor believes that any subsurface or physical condition that is uncovered or revealed at the Site:

1. is of such a nature as to establish that any Technical Data on which Contractor is entitled to rely as provided in Paragraph 5.03 is materially inaccurate;

2. is of such a nature as to require a change in the Drawings or Specifications;

3. differs materially from that shown or indicated in the Contract Documents; or

4. is of an unusual nature, and differs materially from conditions ordinarily encountered and generally recognized as inherent in work of the character provided for in the Contract Documents;

then Contractor shall, promptly after becoming aware thereof and before further disturbing the subsurface or physical conditions or performing any Work in connection therewith (except in an emergency as required by Paragraph 7.15), notify Owner and Engineer in writing about such condition. Contractor shall not further disturb such condition or perform any Work in connection therewith (except with respect to an emergency) until receipt of a written statement permitting Contractor to do so.

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B. *Engineer's Review*: After receipt of written notice as required by the preceding paragraph, Engineer will promptly review the subsurface or physical condition in question; determine whether it is necessary for Owner to obtain additional exploration or tests with respect to the condition; conclude whether the condition falls within any one or more of the differing site condition categories in Paragraph 5.04.A; obtain any pertinent cost or schedule information from Contractor; prepare recommendations to Owner regarding the Contractor's resumption of Work in connection with the subsurface or physical condition in question and the need for any change in the Drawings or Specifications; and advise Owner in writing of Engineer's findings, conclusions, and recommendations.

C. *Owner's Statement to Contractor Regarding Site Condition*: After receipt of Engineer's written findings, conclusions, and recommendations, Owner shall issue a written statement to Contractor (with a copy to Engineer) regarding the subsurface or physical condition in question, addressing the resumption of Work in connection with such condition, indicating whether any change in the Drawings or Specifications will be made, and adopting or rejecting Engineer's written findings, conclusions, and recommendations, in whole or inpart.

D. *Early Resumption of Work*: If at any time Engineer determines that Work in connection with the subsurface or physical condition in question may resume prior to completion of Engineer's review or Owner's issuance of its statement to Contractor, because the condition in question has been adequately documented, and analyzed on a preliminary basis, then the Engineer may at its discretion instruct Contractor to resume such Work.

E. Possible Price and Times Adjustments

1. Contractor shall be entitled to an equitable adjustment in Contract Price or Contract Times, to the extent that the existence of a differing subsurface or physical condition, or any related delay, disruption, or interference, causes an increase or decrease in Contractor's cost of, or time required for, performance of the Work; subject, however, to the following:

    a. Such condition must fall within any one or more of the categories described in Paragraph 5.04.A;

    b. With respect to Work that is paid for on a unit price basis, any adjustment in Contract Price will be subject to the provisions of Paragraph 13.03; and,

    c. Contractor's entitlement to an adjustment of the Contract Times is subject to the provisions of Paragraphs 4.05.D and 4.05.E.

2. Contractor shall not be entitled to any adjustment in the Contract Price or Contract Times with respect to a subsurface or physical condition if:

    a. Contractor knew of the existence of such condition at the time Contractor made a commitment to Owner with respect to Contract Price and Contract Times by the submission of a Bid or becoming bound under a negotiated contract, or otherwise;

    b. The existence of such condition reasonably could have been discovered or revealed as a result of any examination, investigation, exploration, test, or study of the Site and contiguous areas expressly required by the Bidding Requirements or Contract Documents to be conducted by or for Contractor prior to Contractor's making such commitment; or

    c. Contractor failed to give the written notice required by Paragraph 5.04.A.

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3. If Owner and Contractor agree regarding Contractor's entitlement to and the amount or extent of any adjustment in the Contract Price or Contract Times, then any such adjustment will be set forth in a Change Order.

4. Contractor may submit a Change Proposal regarding its entitlement to or the amount or extent of any adjustment in the Contract Price or Contract Times, no later than 30 days after Owner's issuance of the Owner's written statement to Contractor regarding the subsurface or physical condition in question.

F. *Underground Facilities; Hazardous Environmental Conditions*: Paragraph 5.05 governs rights and responsibilities regarding the presence or location of Underground Facilities. Paragraph 5.06 governs rights and responsibilities regarding Hazardous Environmental Conditions. The provisions of Paragraphs 5.03 and 5.04 are not applicable to the presence or location of Underground Facilities, or to Hazardous Environmental Conditions.

5.05 Underground Facilities

A. *Contractor's Responsibilities*: Unless it is otherwise expressly provided in the Supplementary Conditions, the cost of all of the following are included in the Contract Price, and Contractor shall have full responsibility for:

1. reviewing and checking all information and data regarding existing Underground Facilities at the Site;

2. complying with applicable state and local utility damage prevention Laws and Regulations;

3. verifying the actual location of those Underground Facilities shown or indicated in the Contract Documents as being within the area affected by the Work, by exposing such Underground Facilities during the course of construction;

4. coordination of the Work with the owners (including Owner) of such Underground Facilities, during construction; and

5. the safety and protection of all existing Underground Facilities at the Site, and repairing any damage thereto resulting from the Work.

B. *Notice by Contractor*: If Contractor believes that an Underground Facility that is uncovered or revealed at the Site was not shown or indicated on the Drawings, or was not shown or indicated on the Drawings with reasonable accuracy, then Contractor shall, promptly after becoming aware thereof and before further disturbing conditions affected thereby or performing any Work in connection therewith (except in an emergency as required by Paragraph 7.15), notify Owner and Engineer in writing regarding such UndergroundFacility.

C. *Engineer's Review*: Engineer will:

1. promptly review the Underground Facility and conclude whether such Underground Facility was not shown or indicated on the Drawings, or was not shown or indicated with reasonable accuracy;

2. identify and communicate with the owner of the Underground Facility; prepare recommendations to Owner (and if necessary issue any preliminary instructions to Contractor) regarding the Contractor's resumption of Work in connection with the Underground Facility in question;

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3. obtain any pertinent cost or schedule information from Contractor; determine the extent, if any, to which a change is required in the Drawings or Specifications to reflect and document the consequences of the existence or location of the Underground Facility; and

4. advise Owner in writing of Engineer's findings, conclusions, andrecommendations.

During such time, Contractor shall be responsible for the safety and protection of such Underground Facility.

D. *Owner's Statement to Contractor Regarding Underground Facility*: After receipt of Engineer's written findings, conclusions, and recommendations, Owner shall issue a written statement to Contractor (with a copy to Engineer) regarding the Underground Facility in question addressing the resumption of Work in connection with such Underground Facility, indicating whether any change in the Drawings or Specifications will be made, and adopting or rejecting Engineer's written findings, conclusions, and recommendations in whole or inpart.

E. *Early Resumption of Work*: If at any time Engineer determines that Work in connection with the Underground Facility may resume prior to completion of Engineer's review or Owner's issuance of its statement to Contractor, because the Underground Facility in question and conditions affected by its presence have been adequately documented, and analyzed on a preliminary basis, then the Engineer may at its discretion instruct Contractor to resume such Work.

F. Possible Price and Times Adjustments

1. Contractor shall be entitled to an equitable adjustment in the Contract Price or Contract Times, to the extent that any existing Underground Facility at the Site that was not shown or indicated on the Drawings, or was not shown or indicated with reasonable accuracy, or any related delay, disruption, or interference, causes an increase or decrease in Contractor's cost of, or time required for, performance of the Work; subject, however, to the following:

   a. With respect to Work that is paid for on a unit price basis, any adjustment in Contract Price will be subject to the provisions of Paragraph 13.03;

   b. Contractor's entitlement to an adjustment of the Contract Times is subject to the provisions of Paragraphs 4.05.D and 4.05.E; and

   c. Contractor gave the notice required in Paragraph 5.05.B.

2. If Owner and Contractor agree regarding Contractor's entitlement to and the amount or extent of any adjustment in the Contract Price or Contract Times, then any such adjustment will be set forth in a Change Order.

3. Contractor may submit a Change Proposal regarding its entitlement to or the amount or extent of any adjustment in the Contract Price or Contract Times, no later than 30 days after Owner's issuance of the Owner's written statement to Contractor regarding the Underground Facility in question.

4. The information and data shown or indicated on the Drawings with respect to existing Underground Facilities at the Site is based on information and data (a) furnished by the owners of such Underground Facilities, or by others, (b) obtained from available records, or (c) gathered in an investigation conducted in accordance with the current edition of ASCE 38, Standard Guideline for the Collection and Depiction of Existing Subsurface Utility

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Data, by the American Society of Civil Engineers. If such information or data is incorrect or incomplete, Contractor's remedies are limited to those set forth in this Paragraph 5.05.F.

5.06 Hazardous Environmental Conditions at Site

A. *Reports and Drawings*: The Supplementary Conditions identify:

1. those reports known to Owner relating to Hazardous Environmental Conditions that have been identified at or adjacent to the Site;

2. drawings known to Owner relating to Hazardous Environmental Conditions that have been identified at or adjacent to the Site; and

3. Technical Data contained in such reports and drawings.

B. *Reliance by Contractor on Technical Data Authorized*: Contractor may rely upon the accuracy of the Technical Data expressly identified in the Supplementary Conditions with respect to such reports and drawings, but such reports and drawings are not Contract Documents. If no such express identification has been made, then Contractor may rely on the accuracy of the Technical Data as defined in Paragraph 1.01.A.46.b. Except for such reliance on Technical Data, Contractor may not rely upon or make any claim against Owner or Engineer, or any of their officers, directors, members, partners, employees, agents, consultants, or subcontractors, with respect to:

1. the completeness of such reports and drawings for Contractor's purposes, including, but not limited to, any aspects of the means, methods, techniques, sequences and procedures of construction to be employed by Contractor, and safety precautions and programs incident thereto;

2. other data, interpretations, opinions, and information contained in such reports or shown or indicated in such drawings; or

3. any Contractor interpretation of or conclusion drawn from any Technical Data or any such other data, interpretations, opinions or information.

C. Contractor shall not be responsible for removing or remediating any Hazardous Environmental Condition encountered, uncovered, or revealed at the Site unless such removal or remediation is expressly identified in the Contract Documents to be within the scope of the Work.

D. Contractor shall be responsible for controlling, containing, and duly removing all Constituents of Concern brought to the Site by Contractor, Subcontractors, Suppliers, or anyone else for whom Contractor is responsible, and for any associated costs; and for the costs of removing and remediating any Hazardous Environmental Condition created by the presence of any such Constituents of Concern.

E. If Contractor encounters, uncovers, or reveals a Hazardous Environmental Condition whose removal or remediation is not expressly identified in the Contract Documents as being within the scope of the Work, or if Contractor or anyone for whom Contractor is responsible creates a Hazardous Environmental Condition, then Contractor shall immediately: (1) secure or otherwise isolate such condition; (2) stop all Work in connection with such condition and in any area affected thereby (except in an emergency as required by Paragraph 7.15); and (3) notify Owner and Engineer (and promptly thereafter confirm such notice in writing). Owner

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shall promptly consult with Engineer concerning the necessity for Owner to retain a qualified expert to evaluate such condition or take corrective action, if any. Promptly after consulting with Engineer, Owner shall take such actions as are necessary to permit Owner to timely obtain required permits and provide Contractor the written notice required by Paragraph 5.06.F. If Contractor or anyone for whom Contractor is responsible created the Hazardous Environmental Condition in question, then Owner may remove and remediate the Hazardous Environmental Condition, and impose a set-off against payments to account for the associated costs.

F. Contractor shall not resume Work in connection with such Hazardous Environmental Condition or in any affected area until after Owner has obtained any required permits related thereto, and delivered written notice to Contractor either (1) specifying that such condition and any affected area is or has been rendered safe for the resumption of Work, or (2) specifying any special conditions under which such Work may be resumedsafely.

G. If Owner and Contractor cannot agree as to entitlement to or on the amount or extent, if any, of any adjustment in Contract Price or Contract Times, as a result of such Work stoppage, such special conditions under which Work is agreed to be resumed by Contractor, or any costs or expenses incurred in response to the Hazardous Environmental Condition, then within 30 days of Owner's written notice regarding the resumption of Work, Contractor may submit a Change Proposal, or Owner may impose a set-off. Entitlement to any such adjustment is subject to the provisions of Paragraphs 4.05.D, 4.05.E, 11.07, and 11.08.

H. If, after receipt of such written notice, Contractor does not agree to resume such Work based on a reasonable belief it is unsafe, or does not agree to resume such Work under such special conditions, then Owner may order the portion of the Work that is in the area affected by such condition to be deleted from the Work, following the contractual change procedures in Article 11. Owner may have such deleted portion of the Work performed by Owner's own forces or others in accordance with Article 8.

I. To the fullest extent permitted by Laws and Regulations, Owner shall indemnify and hold harmless Contractor, Subcontractors, and Engineer, and the officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of them, from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals, and all court, arbitration, or other dispute resolution costs) arising out of or relating to a Hazardous Environmental Condition, provided that such Hazardous Environmental Condition (1) was not shown or indicated in the Drawings, Specifications, or other Contract Documents, identified as Technical Data entitled to limited reliance pursuant to Paragraph 5.06.B, or identified in the Contract Documents to be included within the scope of the Work, and (2) was not created by Contractor or by anyone for whom Contractor is responsible. Nothing in this Paragraph 5.06.I obligates Owner to indemnify any individual or entity from and against the consequences of that individual's or entity's own negligence.

J. To the fullest extent permitted by Laws and Regulations, Contractor shall indemnify and hold harmless Owner and Engineer, and the officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of them, from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to the failure to control, contain, or remove a

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Constituent of Concern brought to the Site by Contractor or by anyone for whom Contractor is responsible, or to a Hazardous Environmental Condition created by Contractor or by anyone for whom Contractor is responsible. Nothing in this Paragraph 5.06.J obligates Contractor to indemnify any individual or entity from and against the consequences of that individual's or entity's own negligence.

K. The provisions of Paragraphs 5.03, 5.04, and 5.05 do not apply to the presence of Constituents of Concern or to a Hazardous Environmental Condition uncovered or revealed at the Site.

ARTICLE 6—BONDS AND INSURANCE

6.01 Performance, Payment, and Other Bonds

A. Contractor shall furnish a performance bond and a payment bond, each in an amount at least equal to the Contract Price, as security for the faithful performance and payment of Contractor's obligations under the Contract. These bonds must remain in effect until one year after the date when final payment becomes due or until completion of the correction period specified in Paragraph 15.08, whichever is later, except as provided otherwise by Laws or Regulations, the terms of a prescribed bond form, the Supplementary Conditions, or other provisions of the Contract.

B. Contractor shall also furnish such other bonds (if any) as are required by the Supplementary Conditions or other provisions of the Contract.

C. ~~All bonds must be in the form included in the Bidding Documents or otherwise specified by Owner prior to execution of the Contract, except as provided otherwise by Laws or Regulations, and must be issued and signed by a surety named in "Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies" as published in Department Circular 570 (as amended and supplemented) by the Bureau of the Fiscal Service, U.S. Department of the Treasury. A bond signed by an agent or attorney-in-fact must be accompanied by a certified copy of that individual's authority to bind the surety. The evidence of authority must show that it is effective on the date the agent or attorney-in-fact signed the accompanying bond~~ All Bonds shall be in the form prescribed by the Contract Documents or other form approved by Owner. All else notwithstanding, the terms of all Bonds shall be substantially in the form prescribed by Chapter 225, Florida Statutes. All Bonds shall be executed by Contractor and a corporate bonding company licensed to transact such business in the State of Florida and named on the current list of "Surety Companies Acceptable on Federal Bonds" as published in the Treasury Department Circular Number 570. Contactor will cause the Bonds to be recorded with the Clerk of the Circuit Court in the county in which the Work is to be performed. Failure to execute bonds in the form prescribed may constitute non-responsiveness on the part of the Contractor. The expense for all Bonds shall be the Contractor'sresponsibility.

D. Contractor shall obtain the required bonds from surety companies that are duly licensed or authorized, in the state or jurisdiction in which the Project is located, to issue bonds in the required amounts.

E. If the surety on a bond furnished by Contractor is declared bankrupt or becomes insolvent, or the surety ceases to meet the requirements above, then Contractor shall promptly notify Owner and Engineer in writing and shall, within 20 days after the event giving rise to such

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notification, provide another bond and surety, both of which must comply with the bond and surety requirements above.

F. If Contractor has failed to obtain a required bond, Owner may exclude the Contractor from the Site and exercise Owner's termination rights under Article 16.

G. Upon request to Owner from any Subcontractor, Supplier, or other person or entity claiming to have furnished labor, services, materials, or equipment used in the performance of the Work, Owner shall provide a copy of the payment bond to such person orentity.

H. Upon request to Contractor from any Subcontractor, Supplier, or other person or entity claiming to have furnished labor, services, materials, or equipment used in the performance of the Work, Contractor shall provide a copy of the payment bond to such person or entity.

6.02 Insurance—General Provisions

A. Owner and Contractor shall obtain and maintain insurance as required in this article and in the Supplementary Conditions.

B. All insurance required by the Contract to be purchased and maintained by Owner or Contractor shall be obtained from insurance companies that are duly licensed or authorized in the state or jurisdiction in which the Project is located to issue insurance policies for the required limits and coverages. Unless a different standard is indicated in the Supplementary Conditions, or unless approved in writing by the Owner, all companies that provide insurance policies required under this Contract shall have ~~an A.M. Best rating of A-VII or better~~ a current Rating Classification/Financial Category as published in the latest edition of "Best's Key Rating Guide" of at least an A- or above.

C. Alternative forms of insurance coverage, including but not limited to self-insurance and "Occupational Accident and Excess Employer's Indemnity Policies," are not sufficient to meet the insurance requirements of this Contract, unless expressly allowed in the Supplementary Conditions.

D. Contractor shall deliver to Owner, with copies to each additional insured identified in the Contract, certificates of insurance and endorsements establishing that Contractor has obtained and is maintaining the policies and coverages required by the Contract. Upon request by Owner or any other insured, Contractor shall also furnish other evidence of such required insurance, including but not limited to copies of policies, documentation of applicable self-insured retentions (if allowed) and deductibles, full disclosure of all relevant exclusions, and evidence of insurance required to be purchased and maintained by Subcontractors or Suppliers. In any documentation furnished under this provision, Contractor, Subcontractors, and Suppliers may block out (redact) (1) any confidential premium or pricing information and (2) any wording specific to a project or jurisdiction other than those applicable to this Contract.

E. Owner shall deliver to Contractor, with copies to each additional insured identified in the Contract, certificates of insurance and endorsements establishing that Owner has obtained and is maintaining the policies and coverages required of Owner by the Contract (if any). All certificates of insurance shall be dated and shall show the name of the insured Contractor, the specific job by name and job number, the name of the insurer, the policy number assigned, its effective date and its termination date and a list of any exclusionary endorsements. Upon request by Contractor or any other insured, Owner shall also provide other evidence of such required insurance (if any), including but not limited to copies of

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policies, documentation of applicable self-insured retentions (if allowed) and deductibles, and full disclosure of all relevant exclusions. In any documentation furnished under this provision, Owner may block out (redact) (1) any confidential premium or pricing information and (2) any wording specific to a project or jurisdiction other than those relevant to this Contract.

F. Failure of Owner or Contractor to demand such certificates or other evidence of the other party's full compliance with these insurance requirements, or failure of Owner or Contractor to identify a deficiency in compliance from the evidence provided, will not be construed as a waiver of the other party's obligation to obtain and maintain suchinsurance.

G. In addition to the liability insurance required to be provided by Contractor, the Owner, at Owner's option, may purchase and maintain Owner's own liability insurance. Owner's liability policies, if any, operate separately and independently from policies required to be provided by Contractor, and Contractor cannot rely upon Owner's liability policies for any of Contractor's obligations to the Owner, Engineer, or third parties.

H. Contractor shall require:

1. Subcontractors to purchase and maintain worker's compensation, commercial general liability, and other insurance that is appropriate for their participation in the Project, and to name as additional insureds Owner and Engineer (and any other individuals or entities identified in the Supplementary Conditions as additional insureds on Contractor's liability policies) on each Subcontractor's commercial general liability insurance policy;and

2. Suppliers to purchase and maintain insurance that is appropriate for their participation in the Project.

I. If either party does not purchase or maintain the insurance required of such party by the Contract, such party shall notify the other party in writing of such failure to purchase prior to the start of the Work, or of such failure to maintain prior to any change in the required coverage.

J. If Contractor has failed to obtain and maintain required insurance, Contractor's entitlement to enter or remain at the Site will end immediately, and Owner may impose an appropriate set-off against payment for any associated costs (including but not limited to the cost of purchasing necessary insurance coverage), and exercise Owner's termination rights under Article 16.

K. Without prejudice to any other right or remedy, if a party has failed to obtain required insurance, the other party may elect (but is in no way obligated) to obtain equivalent insurance to protect such other party's interests at the expense of the party who was required to provide such coverage, and the Contract Price will be adjusted accordingly.

L. Owner does not represent that insurance coverage and limits established in this Contract necessarily will be adequate to protect Contractor or Contractor's interests. Contractor is responsible for determining whether such coverage and limits are adequate to protect its interests, and for obtaining and maintaining any additional insurance that Contractor deems necessary.

M. The insurance and insurance limits required herein will not be deemed as a limitation on Contractor's liability, or that of its Subcontractors or Suppliers, under the indemnities granted to Owner and other individuals and entities in the Contract orotherwise.

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N. All the policies of insurance required to be purchased and maintained under this Contract will contain a provision or endorsement that the coverage afforded will not be canceled, or renewal refused, until at least 10 thirty (30) days prior written notice has been given to the purchasing policyholder , Owner and other individuals and entities in the Contract or otherwise listed in the Contract Documents ~~Within three days of receipt of any such writ ten notice, the purchasing policyholder shall provide a copy of the notice to each other insured and Engineer~~.

6.03 Contractor's Insurance

A. *Required Insurance*: Contractor shall purchase and maintain Worker's Compensation, Commercial General Liability, and other insurance pursuant to the specific requirements of the Supplementary Conditions.

B. *General Provisions*: The policies of insurance required by this Paragraph 6.03 as supplemented must:

1. include at least the specific coverages required;

2. be written for not less than the limits provided, or those required by Laws or Regulations, whichever is greater;

3. remain in effect at least until the Work is complete (as set forth in Paragraph 15.06.D), and longer if expressly required elsewhere in this Contract, and at all times thereafter when Contractor may be correcting, removing, or replacing defective Work as a warranty or correction obligation, or otherwise, or returning to the Site to conduct other tasks arising from the Contract;

4. apply with respect to the performance of the Work, whether such performance is by Contractor, any Subcontractor or Supplier, or by anyone directly or indirectly employed by any of them to perform any of the Work, or by anyone for whose acts any of them may be liable; and

5. include all necessary endorsements to support the stated requirements.

C. *Additional Insureds*: The Contractor's commercial general liability, automobile liability, employer's liability, umbrella or excess, pollution liability, and unmanned aerial vehicle liability policies, if required by this Contract, must:

1. include and list as additional insureds Owner and Engineer, and any individuals or entities identified as additional insureds in the Supplementary Conditions;

2. include coverage for the respective officers, directors, members, partners, employees, and consultants of all such additional insureds;

3. afford primary coverage to these additional insureds for all claims covered thereby (including as applicable those arising from both ongoing and completedoperations);

4. not seek contribution from insurance maintained by the additional insured; and

5. as to commercial general liability insurance, apply to additional insureds with respect to liability caused in whole or in part by Contractor's acts or omissions, or the acts and omissions of those working on Contractor's behalf, in the performance of Contractor's operations.

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6.04 Builder's Risk and Other Property Insurance

A. *Builder's Risk*: Unless otherwise provided in the Supplementary Conditions, Contractor shall purchase and maintain builder's risk insurance upon the Work on a completed value basis, in the amount of the Work's full insurable replacement cost (subject to such deductible amounts as may be provided in the Supplementary Conditions or required by Laws and Regulations). The specific requirements applicable to the builder's risk insurance are set forth in the Supplementary Conditions.

B. *Property Insurance for Facilities of Owner Where Work Will Occur*: Owner is responsible for obtaining and maintaining property insurance covering each existing structure, building, or facility in which any part of the Work will occur, or to which any part of the Work will attach or be adjoined. Such property insurance will be written on a special perils (all-risk) form, on a replacement cost basis, providing coverage consistent with that required for the builder's risk insurance, and will be maintained until the Work is complete, as set forth in Paragraph 15.06.D.

C. *Property Insurance for Substantially Complete Facilities*: Promptly after Substantial Completion, and before actual occupancy or use of the substantially completed Work, Owner will obtain property insurance for such substantially completed Work, and maintain such property insurance at least until the Work is complete, as set forth in Paragraph 15.06.D. Such property insurance will be written on a special perils (all-risk) form, on a replacement cost basis, and provide coverage consistent with that required for the builder's risk insurance. The builder's risk insurance may terminate upon written confirmation of Owner's procurement of such property insurance.

D. *Partial Occupancy or Use by Owner*: If Owner will occupy or use a portion or portions of the Work prior to Substantial Completion of all the Work, as provided in Paragraph 15.04, then Owner (directly, if it is the purchaser of the builder's risk policy, or through Contractor) will provide advance notice of such occupancy or use to the builder's risk insurer, and obtain an endorsement consenting to the continuation of coverage prior to commencing such partial occupancy or use.

E. *Insurance of Other Property; Additional Insurance*: If the express insurance provisions of the Contract do not require or address the insurance of a property item or interest, then the entity or individual owning such property item will be responsible for insuring it. If Contractor elects to obtain other special insurance to be included in or supplement the builder's risk or property insurance policies provided under this Paragraph 6.04, it may do so at Contractor's expense.

6.05 Property Losses; Subrogation

A. The builder's risk insurance policy purchased and maintained in accordance with Paragraph 6.04 (or an installation floater policy if authorized by the Supplementary Conditions), will contain provisions to the effect that in the event of payment of any loss or damage the insurer will have no rights of recovery against any insureds thereunder, or against Engineer or its consultants, or their officers, directors, members, partners, employees, agents, consultants, or subcontractors.

1. Owner and Contractor waive all rights against each other and the respective officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of them, for all losses and damages caused by, arising out of, or resulting from any of the perils, risks, or causes of loss covered by such policies and any other

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property insurance applicable to the Work; and, in addition, waive all such rights against Engineer, its consultants, all individuals or entities identified in the Supplementary Conditions as builder's risk or installation floater insureds, and the officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of them, under such policies for losses and damages so caused.

2. None of the above waivers extends to the rights that any party making such waiver may have to the proceeds of insurance held by Owner or Contractor as trustee or fiduciary, or otherwise payable under any policy so issued.

B. Any property insurance policy maintained by Owner covering any loss, damage, or consequential loss to Owner's existing structures, buildings, or facilities in which any part of the Work will occur, or to which any part of the Work will attach or adjoin; to adjacent structures, buildings, or facilities of Owner; or to part or all of the completed or substantially completed Work, during partial occupancy or use pursuant to Paragraph 15.04, after Substantial Completion pursuant to Paragraph 15.03, or after final payment pursuant to Paragraph 15.06, will contain provisions to the effect that in the event of payment of any loss or damage the insurer will have no rights of recovery against any insureds thereunder, or against Contractor, Subcontractors, or Engineer, or the officers, directors, members, partners, employees, agents, consultants, or subcontractors of each and any of them, and that the insured is allowed to waive the insurer's rights of subrogation in a written contract executed prior to the loss, damage, or consequential loss.

1. Owner waives all rights against Contractor, Subcontractors, and Engineer, and the officers, directors, members, partners, employees, agents, consultants and subcontractors of each and any of them, for all losses and damages caused by, arising out of, or resulting from fire or any of the perils, risks, or causes of loss covered by such policies.

C. The waivers in this Paragraph 6.05 include the waiver of rights due to business interruption, loss of use, or other consequential loss extending beyond direct physical loss or damage to Owner's property or the Work caused by, arising out of, or resulting from fire or other insured peril, risk, or cause of loss.

D. Contractor shall be responsible for assuring that each Subcontract contains provisions whereby the Subcontractor waives all rights against Owner, Contractor, all individuals or entities identified in the Supplementary Conditions as insureds, the Engineer and its consultants, and the officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of them, for all losses and damages caused by, arising out of, relating to, or resulting from fire or other peril, risk, or cause of loss covered by builder's risk insurance, installation floater, and any other property insurance applicable to the Work.

6.06 Receipt and Application of Property Insurance Proceeds

A. Any insured loss under the builder's risk and other policies of property insurance required by Paragraph 6.04 will be adjusted and settled with the named insured that purchased the policy. Such named insured shall act as fiduciary for the other insureds, and give notice to such other insureds that adjustment and settlement of a claim is in progress. Any other insured may state its position regarding a claim for insured loss in writing within 15 days after notice of such claim.

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B. Proceeds for such insured losses may be made payable by the insurer either jointly to multiple insureds, or to the named insured that purchased the policy in its own right and as fiduciary for other insureds, subject to the requirements of any applicable mortgage clause. A named insured receiving insurance proceeds under the builder's risk and other policies of insurance required by Paragraph 6.04 shall maintain such proceeds in a segregated account, and distribute such proceeds in accordance with such agreement as the parties in interest may reach, or as otherwise required under the dispute resolution provisions of this Contract or applicable Laws and Regulations.

C. If no other special agreement is reached, Contractor shall repair or replace the damaged Work, using allocated insurance proceeds.

ARTICLE 7—CONTRACTOR'S RESPONSIBILITIES

7.01 Contractor's Means and Methods of Construction

A. Contractor shall be solely responsible for the means, methods, techniques, sequences, and procedures of construction. Owner reserves the right to reject any means, methods, techniques, sequences or procedures proposed by Contractor which:

1. will constitute or create a hazard to the Work or to the persons or damage to property or existing utilities; or

2. will not produce finished Work in accordance with the terms of the Contract Documents.

Owner's failure to exercise his right to reject such means, methods, techniques, sequences or procedures shall not relieve the Contractor of his obligation to accomplish the result intended in the Contract Documents nor shall the exercise of such right create a cause of action for damages.

B. If the Contract Documents note, or Contractor determines, that professional engineering or other design services are needed to carry out Contractor's responsibilities for construction means, methods, techniques, sequences, and procedures, or for Site safety, then Contractor shall cause such services to be provided by a properly licensed design professional, at Contractor's expense. Such services are not Owner-delegated professional design services under this Contract, and neither Owner nor Engineer has any responsibility with respect to (1) Contractor's determination of the need for such services, (2) the qualifications or licensing of the design professionals retained or employed by Contractor, (3) the performance of such services, or (4) any errors, omissions, or defects in suchservices.

7.02 Supervision and Superintendence

A. Contractor shall supervise, inspect, and direct the Work competently and efficiently, devoting such attention thereto and applying such skills and expertise as may be necessary to perform the Work in accordance with the Contract Documents.

B. At all times during the progress of the Work, Contractor shall assign a competent resident superintendent who will not be replaced without written notice to Owner and Engineer except under extraordinary circumstances.

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7.03 Labor; Working Hours

A. Contractor shall provide competent, suitably qualified personnel to survey and lay out the Work and perform construction as required by the Contract Documents. Contractor shall maintain good discipline and order at the Site.

B. Contractor shall be fully responsible to Owner and Engineer for all acts and omissions of Contractor's employees; of Suppliers and Subcontractors, and their employees; and of any other individuals or entities performing or furnishing any of the Work, just as Contractor is responsible for Contractor's own acts and omissions.

C. Except as otherwise required for the safety or protection of persons or the Work or property at the Site or adjacent thereto, and except as otherwise stated in the Contract Documents, all Work at the Site will be performed during regular working hours, Monday through Friday. Contractor will not perform Work on a Saturday, Sunday, or any legal holiday. Contractor may perform Work outside regular working hours or on Saturdays, Sundays, or legal holidays only with Owner's written consent, which will not be unreasonably withheld.

D. Engineer shall record time and costs required by Engineer and Engineer's Consultants to provide inspection services due to Contractor's working beyond regular working hours as defined in the General Requirements. Owner's reimbursement for the charges shall be a deduction from Contractor's Partial Payment(s) in accordance with Section 01 11 00 Part 2.02.

7.04 Services, Materials, and Equipment

A. Unless otherwise specified in the Contract Documents, Contractor shall provide and assume full responsibility for all services, materials, equipment, labor, transportation, construction equipment and machinery, tools, appliances, fuel, power, light, heat, telephone, water, sanitary facilities, temporary facilities, and all other facilities and incidentals necessary for the performance, testing, start up, and completion of the Work, whether or not such items are specifically called for in the Contract Documents.

B. All materials and equipment incorporated into the Work must be new and of good quality, except as otherwise provided in the Contract Documents. All special warranties and guarantees required by the Specifications will expressly run to the benefit of Owner. If required by Engineer, Contractor shall furnish satisfactory evidence (including reports of required tests) as to the source, kind, and quality of materials andequipment.

C. All materials and equipment must be stored, applied, installed, connected, erected, protected, used, cleaned, and conditioned in accordance with instructions of the applicable Supplier, except as otherwise may be provided in the Contract Documents.

7.05 "Or Equals"

A. *Contractor's Request; Governing Criteria*: Whenever an item of equipment or material is specified or described in the Contract Documents by using the names of one or more proprietary items or specific Suppliers, the Contract Price has been based upon Contractor furnishing such item as specified. The specification or description of such an item is intended to establish the type, function, appearance, and quality required. Unless the specification or description contains or is followed by words reading that no like, equivalent, or "or equal" item is permitted, Contractor may request that Engineer authorize the use of other items of equipment or material, or items from other proposed Suppliers, under the circumstances described below.

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1. If Engineer in its sole discretion determines that an item of equipment or material proposed by Contractor is functionally equal to that named and sufficiently similar so that no change in related Work will be required, Engineer will deem it an "or equal" item. For the purposes of this paragraph, a proposed item of equipment or material will be considered functionally equal to an item so named if:

    a. in the exercise of reasonable judgment Engineer determines that the proposed item:

        1) is at least equal in materials of construction, quality, durability, appearance, strength, and design characteristics;

        2) will reliably perform at least equally well the function and achieve the results imposed by the design concept of the completed Project as a functioning whole;

        3) has a proven record of performance and availability of responsive service; and

        4) is not objectionable to Owner.

    b. Contractor certifies that, if the proposed item is approved and incorporated into the Work:

        1) there will be no increase in cost to the Owner or increase in Contract Times; and

        2) the item will conform substantially to the detailed requirements of the item named in the Contract Documents.

B. *Contractor's Expense*: Contractor shall provide all data in support of any proposed "or equal" item at Contractor's expense.

C. *Engineer's Evaluation and Determination*: Engineer will be allowed a reasonable time to evaluate each "or-equal" request. Engineer may require Contractor to furnish additional data about the proposed "or-equal" item. Engineer will be the sole judge of acceptability. No "or-equal" item will be ordered, furnished, installed, or utilized until Engineer's review is complete and Engineer determines that the proposed item is an "or-equal," which will be evidenced by an approved Shop Drawing or other written communication. Engineer will advise Contractor in writing of any negative determination.

D. *Effect of Engineer's Determination*: Neither approval nor denial of an "or-equal" request will result in any change in Contract Price. The Engineer's denial of an "or-equal" request will be final and binding, and may not be reversed through an appeal under any provision of the Contract.

E. *Treatment as a Substitution Request*: If Engineer determines that an item of equipment or material proposed by Contractor does not qualify as an "or-equal" item, Contractor may request that Engineer consider the item a proposed substitute pursuant to Paragraph7.06.

7.06 Substitutes

A. *Contractor's Request; Governing Criteria*: Unless the specification or description of an item of equipment or material required to be furnished under the Contract Documents contains or is followed by words reading that no substitution is permitted, Contractor may request that Engineer authorize the use of other items of equipment or material under the circumstances described below. To the extent possible such requests must be made before commencement of related construction at the Site.

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1. Contractor shall submit sufficient information as provided below to allow Engineer to determine if the item of material or equipment proposed is functionally equivalent to that named and an acceptable substitute therefor. Engineer will not accept requests for review of proposed substitute items of equipment or material from anyone other than Contractor.

2. The requirements for review by Engineer will be as set forth in Paragraph 7.06.B, as supplemented by the Specifications, and as Engineer may decide is appropriate under the circumstances.

3. Contractor shall make written application to Engineer for review of a proposed substitute item of equipment or material that Contractor seeks to furnish or use. The application:

    a. will certify that the proposed substitute item will:

        1) perform adequately the functions and achieve the results called for by the general design;

        2) be similar in substance to the item specified; and

        3) be suited to the same use as the item specified.

    b. will state:

        1) the extent, if any, to which the use of the proposed substitute item will necessitate a change in Contract Times;

        2) whether use of the proposed substitute item in the Work will require a change in any of the Contract Documents (or in the provisions of any other direct contract with Owner for other work on the Project) to adapt the design to the proposed substitute item; and

        3) whether incorporation or use of the proposed substitute item in connection with the Work is subject to payment of any license fee or royalty.

    c. will identify:

        1) all variations of the proposed substitute item from the item specified; and

        2) available engineering, sales, maintenance, repair, and replacement services.

    d. will contain an itemized estimate of all costs or credits that will result directly or indirectly from use of such substitute item, including but not limited to changes in Contract Price, shared savings, costs of redesign, and claims of other contractors affected by any resulting change.

B. *Engineer's Evaluation and Determination*: Engineer will be allowed a reasonable time to evaluate each substitute request, and to obtain comments and direction from Owner. Engineer may require Contractor to furnish additional data about the proposed substitute item. Engineer will be the sole judge of acceptability. No substitute will be ordered, furnished, installed, or utilized until Engineer's review is complete and Engineer determines that the proposed item is an acceptable substitute. Engineer's determination will be evidenced by a Field Order or a proposed Change Order accounting for the substitution itself and all related impacts, including changes in Contract Price or Contract Times. Engineer will advise Contractor in writing of any negative determination.

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C. *Special Guarantee*: Owner may require Contractor to furnish at Contractor's expense a special performance guarantee or other surety with respect to any substitute.

D. *Reimbursement of Engineer's Cost*: Engineer will record Engineer's costs in evaluating a substitute proposed or submitted by Contractor. Whether or not Engineer approves a substitute so proposed or submitted by Contractor, Contractor shall reimburse Owner for the reasonable charges of Engineer for evaluating each such proposed substitute. Contractor shall also reimburse Owner for the reasonable charges of Engineer for making changes in the Contract Documents (or in the provisions of any other direct contract with Owner) resulting from the acceptance of each proposed substitute.

E. *Contractor's Expense*: Contractor shall provide all data in support of any proposed substitute at Contractor's expense.

F. *Effect of Engineer's Determination*: If Engineer approves the substitution request, Contractor shall execute the proposed Change Order and proceed with the substitution. The Engineer's denial of a substitution request will be final and binding, and may not be reversed through an appeal under any provision of the Contract. Contractor may challenge the scope of reimbursement costs imposed under Paragraph 7.06.D, by timely submittal of a Change Proposal.

7.07 Concerning Subcontractors and Suppliers

A. Contractor may retain Subcontractors and Suppliers for the performance of parts of the Work. Such Subcontractors and Suppliers must be acceptable to Owner. The Contractor's retention of a Subcontractor or Supplier for the performance of parts of the Work will not relieve Contractor's obligation to Owner to perform and complete the Work in accordance with the Contract Documents.

B. Contractor shall retain specific Subcontractors and Suppliers for the performance of designated parts of the Work if required by the Contract to do so.

C. Subsequent to the submittal of Contractor's Bid or final negotiation of the terms of the Contract, Owner may not require Contractor to retain any Subcontractor or Supplier to furnish or perform any of the Work against which Contractor has reasonableobjection.

D. Prior to entry into any binding subcontract or purchase order, Contractor shall submit to Owner the identity of the proposed Subcontractor or Supplier (unless Owner has already deemed such proposed Subcontractor or Supplier acceptable during the bidding process or otherwise). Such proposed Subcontractor or Supplier shall be deemed acceptable to Owner unless Owner raises a substantive, reasonable objection within 5 days.

E. Owner may require the replacement of any Subcontractor or Supplier. Owner also may require Contractor to retain specific replacements; provided, however, that Owner may not require a replacement to which Contractor has a reasonable objection. If Contractor has submitted the identity of certain Subcontractors or Suppliers for acceptance by Owner, and Owner has accepted it (either in writing or by failing to make written objection thereto), then Owner may subsequently revoke the acceptance of any such Subcontractor or Supplier so identified solely on the basis of substantive, reasonable objection after due investigation. Contractor shall submit an acceptable replacement for the rejected Subcontractor or Supplier.

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F. If Owner requires the replacement of any Subcontractor or Supplier retained by Contractor to perform any part of the Work, then Contractor shall be entitled to an adjustment in Contract Price or Contract Times, with respect to the replacement; and Contractor shall initiate a Change Proposal for such adjustment within 30 days of Owner's requirement of replacement.

G. No acceptance by Owner of any such Subcontractor or Supplier, whether initially or as a replacement, will constitute a waiver of the right of Owner to the completion of the Work in accordance with the Contract Documents.

H. On a monthly basis, Contractor shall submit to Engineer a complete list of all Subcontractors and Suppliers having a direct contract with Contractor, and of all other Subcontractors and Suppliers known to Contractor at the time of submittal.

I. Contractor shall be solely responsible for scheduling and coordinating the work of Subcontractors and Suppliers.

J. The divisions and sections of the Specifications and the identifications of any Drawings do not control Contractor in dividing the Work among Subcontractors or Suppliers, or in delineating the Work to be performed by any specific trade.

K. All Work performed for Contractor by a Subcontractor or Supplier must be pursuant to an appropriate contractual agreement that specifically binds the Subcontractor or Supplier to the applicable terms and conditions of the Contract for the benefit of Owner and Engineer.

L. Owner may furnish to any Subcontractor or Supplier, to the extent practicable, information about amounts paid to Contractor for Work performed for Contractor by the Subcontractor or Supplier.

M. Contractor shall restrict all Subcontractors and Suppliers from communicating with Engineer or Owner, except through Contractor or in case of an emergency, or as otherwise expressly allowed in this Contract.

N. Contractor shall not subcontract part(s) of the Work, the aggregate cost of which is greater than fifty (50) percent of the contract price, without prior written approval by Owner. Contractor shall cause appropriate provisions to be inserted in all subcontracts relative to the Work that bind Subcontractors to Contractor by the terms of the Contract Documents insofar as applicable to the work of Subcontractors and to give Contractor the same power as regards terminating any subcontract that Owner may exercise over Contractor under any provision of the Contract Documents. Nothing contained in the subcontract shall create any contractual relationship between Subcontractor and Owner. Each Subcontractor shall discharge all duties and responsibilities of Contractor to Owner covered by his subcontract.

7.08 Patent Fees and Royalties

A. Contractor shall pay all license fees and royalties and assume all costs incident to the use in the performance of the Work or the incorporation in the Work of any invention, design, process, product, or device which is the subject of patent rights or copyrights held by others. If an invention, design, process, product, or device is specified in the Contract Documents for use in the performance of the Work and if, to the actual knowledge of Owner or Engineer, its use is subject to patent rights or copyrights calling for the payment of any license fee or royalty to others, the existence of such rights will be disclosed in the Contract Documents.

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B. To the fullest extent permitted by Laws and Regulations, Owner shall indemnify and hold harmless Contractor, and its officers, directors, members, partners, employees, agents, consultants, and subcontractors, from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals, and all court or arbitration or other dispute resolution costs) arising out of or relating to any infringement of patent rights or copyrights incident to the use in the performance of the Work or resulting from the incorporation in the Work of any invention, design, process, product, or device specified in the Contract Documents, but not identified as being subject to payment of any license fee or royalty to others required by patent rights or copyrights.

C. To the fullest extent permitted by Laws and Regulations, Contractor shall indemnify and hold harmless Owner and Engineer, and the officers, directors, members, partners, employees, agents, consultants and subcontractors of each and any of them, from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to any infringement of patent rights or copyrights incident to the use in the performance of the Work or resulting from the incorporation in the Work of any invention, design, process, product, or device not specified in the Contract Documents.

7.09 Permits

A. Unless otherwise provided in the Contract Documents, Contractor shall obtain and pay for all construction permits, licenses, and certificates of occupancy. Owner shall assist Contractor, when necessary, in obtaining such permits and licenses. Contractor shall pay all governmental charges and inspection fees necessary for the prosecution of the Work which are applicable at the time of the submission of Contractor's Bid (or when Contractor became bound under a negotiated contract). Owner shall pay all charges of utility owners for connections for providing permanent service to the Work. Easements for permanent structures or permanent changes in existing facilities shall be secured and paid for by Owner, unless otherwise specified.

7.10 Taxes

A. Contractor shall pay all sales, consumer, use, and other similar taxes required to be paid by Contractor in accordance with the Laws and Regulations of the place of the Project which are applicable during the performance of the Work.

7.11 Laws and Regulations

A. Contractor shall give all notices required by and shall comply with all Laws and Regulations applicable to the performance of the Work. Neither Owner nor Engineer shall be responsible for monitoring Contractor's compliance with any Laws or Regulations. Contractor shall also cause all Subcontractors to comply with all federal, state, county, and municipal laws, ordinances, rules, and regulations bearing on the conduct of Work.

B. If Contractor performs any Work or takes any other action knowing or having reason to know that it is contrary to Laws or Regulations, Contractor shall bear all resulting costs and losses, and shall indemnify and hold harmless Owner and Engineer, and the officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of them, from and against all claims, costs, losses, and damages (including but not limited to all

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fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such Work or other action. It is not Contractor's responsibility to make certain that the Work described in the Contract Documents is in accordance with Laws and Regulations, but this does not relieve Contractor of its obligations under Paragraph 3.03. If Contractor observes that the Contract Documents are at variance with said laws, ordinances, rates, or regulations, Contractor shall promptly notify Engineer of Record and the County in writing, and any necessary changes shall be adjusted as provided in the Contract Documents. Contractor shall not proceed with the Work until so instructed by Owner.

C. Owner or Contractor may give written notice to the other party of any changes after the submission of Contractor's Bid (or after the date when Contractor became bound under a negotiated contract) in Laws or Regulations having an effect on the cost or time of performance of the Work, including but not limited to changes in Laws or Regulations having an effect on procuring permits and on sales, use, value-added, consumption, and other similar taxes. If Owner and Contractor are unable to agree on entitlement to or on the amount or extent, if any, of any adjustment in Contract Price or Contract Times resulting from such changes, then within 30 days of such written notice Contractor may submit a Change Proposal, or Owner may initiate a Claim.

7.12 Record Documents

A. Contractor shall maintain in a safe place at the Site one printed record copy of all Drawings, Specifications, Addenda, Change Orders, Work Change Directives, Field Orders, written interpretations and clarifications, and approved Shop Drawings. Contractor shall keep such record documents in good order and annotate them to show changes made during construction. These record documents, together with all approved Samples, will be available to Engineer for reference. Upon completion of the Work, Contractor shall deliver these record documents to Engineer. Annotations of record documents shall be legible, precise, and complete as determined by Engineer of Record and the County.

7.13 Safety and Protection

A. Contractor shall be solely responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the Work. Such responsibility does not relieve Subcontractors of their responsibility for the safety of persons or property in the performance of their work, nor for compliance with applicable safety Laws and Regulations.

B. Contractor shall designate a qualified and experienced safety representative whose duties and responsibilities are the prevention of Work-related accidents and the maintenance and supervision of safety precautions and programs.

C. Contractor shall take all necessary precautions for the safety of, and shall provide the necessary protection to prevent damage, injury, or loss to:

1. all persons on the Site or who may be affected by the Work;
2. all the Work and materials and equipment to be incorporated therein, whether in storage on or off the Site; and
3. other property at the Site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures, other work in progress, utilities, and Underground

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Facilities not designated for removal, relocation, or replacement in the course of construction.

D. All damage, injury, or loss to any property referred to in Paragraph 7.13.C.2 or 7.13.C.3 caused, directly or indirectly, in whole or in part, by Contractor, any Subcontractor, Supplier, or any other individual or entity directly or indirectly employed by any of them to perform any of the Work, or anyone for whose acts any of them may be liable, shall be remedied by Contractor at its expense (except damage or loss attributable to the fault of Drawings or Specifications or to the acts or omissions of Owner or Engineer or anyone employed by any of them, or anyone for whose acts any of them may be liable, and not attributable, directly or indirectly, in whole or in part, to the fault or negligence of Contractor or any Subcontractor, Supplier, or other individual or entity directly or indirectly employed by any of them).

E. Contractor shall comply with all applicable Laws and Regulations relating to the safety of persons or property, or to the protection of persons or property from damage, injury, or loss; and shall erect and maintain all necessary safeguards for such safety andprotection.

F. Contractor shall notify Owner; the owners of adjacent property; the owners of Underground Facilities and other utilities (if the identity of such owners is known to Contractor); and other contractors and utility owners performing work at or adjacent to the Site, in writing, when Contractor knows that prosecution of the Work may affect them, and shall cooperate with them in the protection, removal, relocation, and replacement of their property or work in progress.

G. Contractor shall comply with the applicable requirements of Owner's safety programs, if any. Any Owner's safety programs that are applicable to the Work are identified or included in the Supplementary Conditions or Specifications.

H. Contractor shall inform Owner and Engineer of the specific requirements of Contractor's safety program with which Owner's and Engineer's employees and representatives must comply while at the Site.

I. Contractor's duties and responsibilities for safety and protection will continue until all the Work is completed, Engineer has issued a written notice to Owner and Contractor in accordance with Paragraph 15.06.C that the Work is acceptable, and Contractor has left the Site (except as otherwise expressly provided in connection with Substantial Completion).

J. Contractor's duties and responsibilities for safety and protection will resume whenever Contractor or any Subcontractor or Supplier returns to the Site to fulfill warranty or correction obligations, or to conduct other tasks arising from the Contract Documents.

K. Contractor shall be responsible at all times for precautions to achieve the protection of all persons, including employees and property. Contractor shall make special effort to detect hazardous conditions and shall take prompt action where necessary to avoid accident, injury, or property damage. OSHA and all other applicable safety laws and ordinances shall be followed as well as American National Standards Institute Safety Standards. All accidents, injuries, claims, or potential claims shall be reported promptly to Owner.

7.14 Hazard Communication Programs

A. Contractor shall be responsible for coordinating any exchange of safety data sheets (formerly known as material safety data sheets) or other hazard communication information required

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to be made available to or exchanged between or among employers at the Site in accordance with Laws or Regulations.

7.15 Emergencies

A. In emergencies affecting the safety or protection of persons or the Work or property at the Site or adjacent thereto, Contractor is obligated to act to prevent damage, injury, or loss. Contractor shall give Engineer prompt written notice if Contractor believes that any significant changes in the Work or variations from the Contract Documents have been caused by an emergency, or are required as a result of Contractor's response to an emergency. If Engineer determines that a change in the Contract Documents is required because of an emergency or Contractor's response, a Work Change Directive or Change Order will beissued.

7.16 Submittals

A. Shop Drawing and Sample Requirements

1. Before submitting a Shop Drawing or Sample, Contractor shall:

    a. review and coordinate the Shop Drawing or Sample with other Shop Drawings and Samples and with the requirements of the Work and the ContractDocuments;

    b. determine and verify:

        1) all field measurements, quantities, dimensions, specified performance and design criteria, installation requirements, materials, catalog numbers, and similar information with respect to the Submittal;

        2) the suitability of all materials and equipment offered with respect to the indicated application, fabrication, shipping, handling, storage, assembly, and installation pertaining to the performance of the Work; and

        3) all information relative to Contractor's responsibilities for means, methods, techniques, sequences, and procedures of construction, and safety precautions and programs incident thereto;

    c. confirm that the Submittal is complete with respect to all related data included in the Submittal.

2. Each Shop Drawing or Sample must bear a stamp or specific written certification that Contractor has satisfied Contractor's obligations under the Contract Documents with respect to Contractor's review of that Submittal, and that Contractor approves the Submittal.

3. With each Shop Drawing or Sample, Contractor shall give Engineer specific written notice of any variations that the Submittal may have from the requirements of the Contract Documents. This notice must be set forth in a written communication separate from the Submittal; and, in addition, in the case of a Shop Drawing by a specific notation made on the Shop Drawing itself.

B. *Submittal Procedures for Shop Drawings and Samples*: Contractor shall label and submit Shop Drawings and Samples to Engineer for review and approval in accordance with the accepted Schedule of Submittals.

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1. *Shop Drawings*

    a. Contractor shall submit the number of copies required in the Specifications.

    b. Data shown on the Shop Drawings must be complete with respect to quantities, dimensions, specified performance and design criteria, materials, and similar data to show Engineer the services, materials, and equipment Contractor proposes to provide, and to enable Engineer to review the information for the limited purposes required by Paragraph 7.16.C.

2. *Samples*

    a. Contractor shall submit the number of Samples required in the Specifications.

    b. Contractor shall clearly identify each Sample as to material, Supplier, pertinent data such as catalog numbers, the use for which intended and other data as Engineer may require to enable Engineer to review the Submittal for the limited purposes required by Paragraph 7.16.C.

3. Where a Shop Drawing or Sample is required by the Contract Documents or the Schedule of Submittals, any related Work performed prior to Engineer's review and approval of the pertinent submittal will be at the sole expense and responsibility ofContractor.

C. *Engineer's Review of Shop Drawings and Samples*

1. Engineer will provide timely review of Shop Drawings and Samples in accordance with the accepted Schedule of Submittals. Engineer's review and approval will be only to determine if the items covered by the Submittals will, after installation or incorporation in the Work, comply with the requirements of the Contract Documents, and be compatible with the design concept of the completed Project as a functioning whole as indicated by the Contract Documents.

2. Engineer's review and approval will not extend to means, methods, techniques, sequences, or procedures of construction, or to safety precautions or programs incident thereto.

3. Engineer's review and approval of a separate item as such will not indicate approval of the assembly in which the item functions.

4. Engineer's review and approval of a Shop Drawing or Sample will not relieve Contractor from responsibility for any variation from the requirements of the Contract Documents unless Contractor has complied with the requirements of Paragraph 7.16.A.3 and Engineer has given written approval of each such variation by specific written notation thereof incorporated in or accompanying the Shop Drawing or Sample. Engineer will document any such approved variation from the requirements of the Contract Documents in a Field Order or other appropriate Contract modification.

5. Engineer's review and approval of a Shop Drawing or Sample will not relieve Contractor from responsibility for complying with the requirements of Paragraphs 7.16.A and B.

6. Engineer's review and approval of a Shop Drawing or Sample, or of a variation from the requirements of the Contract Documents, will not, under any circumstances, change the Contract Times or Contract Price, unless such changes are included in a Change Order.

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7. Neither Engineer's receipt, review, acceptance, or approval of a Shop Drawing or Sample will result in such item becoming a Contract Document.

8. Contractor shall perform the Work in compliance with the requirements and commitments set forth in approved Shop Drawings and Samples, subject to the provisions of Paragraph 7.16.C.4.

D. Resubmittal Procedures for Shop Drawings and Samples

1. Contractor shall make corrections required by Engineer and shall return the required number of corrected copies of Shop Drawings and submit, as required, new Samples for review and approval. Contractor shall direct specific attention in writing to revisions other than the corrections called for by Engineer on previous Submittals.

2. Contractor shall furnish required Shop Drawing and Sample submittals with sufficient information and accuracy to obtain required approval of an item with no more than two resubmittals. Engineer will record Engineer's time for reviewing a third or subsequent resubmittal of a Shop Drawing or Sample, and Contractor shall be responsible for Engineer's charges to Owner for such time. Owner may impose a set-off against payments due Contractor to secure reimbursement for such charges.

3. If Contractor requests a change of a previously approved Shop Drawing or Sample, Contractor shall be responsible for Engineer's charges to Owner for its review time, and Owner may impose a set-off against payments due Contractor to secure reimbursement for such charges, unless the need for such change is beyond the control of Contractor.

E. Submittals Other than Shop Drawings, Samples, and Owner-Delegated Designs

1. The following provisions apply to all Submittals other than Shop Drawings, Samples, and Owner-delegated designs:

   a. Contractor shall submit all such Submittals to the Engineer in accordance with the Schedule of Submittals and pursuant to the applicable terms of the Contract Documents.

   b. Engineer will provide timely review of all such Submittals in accordance with the Schedule of Submittals and return such Submittals with a notation of either Accepted or Not Accepted. Any such Submittal that is not returned within the time established in the Schedule of Submittals will be deemed accepted.

   c. Engineer's review will be only to determine if the Submittal is acceptable under the requirements of the Contract Documents as to general form and content of the Submittal.

   d. If any such Submittal is not accepted, Contractor shall confer with Engineer regarding the reason for the non-acceptance, and resubmit an acceptabledocument.

2. Procedures for the submittal and acceptance of the Progress Schedule, the Schedule of Submittals, and the Schedule of Values are set forth in Paragraphs 2.03. 2.04, and2.05.

F. Owner-delegated Designs: Submittals pursuant to Owner-delegated designs are governed by the provisions of Paragraph 7.19.

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7.17 Contractor's General Warranty and Guarantee

A. Contractor warrants and guarantees to Owner that all Work will be in accordance with the Contract Documents and will not be defective. Engineer is entitled to rely on Contractor's warranty and guarantee.

B. Owner's rights under this warranty and guarantee are in addition to, and are not limited by, Owner's rights under the correction period provisions of Paragraph 15.08. The time in which Owner may enforce its warranty and guarantee rights under this Paragraph 7.17 is limited only by applicable Laws and Regulations restricting actions to enforce such rights; provided, however, that after the end of the correction period under Paragraph15.08:

1. Owner shall give Contractor written notice of any defective Work within 60 days of the discovery that such Work is defective; and

2. Such notice will be deemed the start of an event giving rise to a Claim under Paragraph 12.01.B, such that any related Claim must be brought within 30 days of the notice.

C. Contractor's warranty and guarantee hereunder excludes defects or damage caused by:

1. abuse, or improper modification, maintenance, or operation, by persons other than Contractor, Subcontractors, Suppliers, or any other individual or entity for whom Contractor is responsible; or

2. normal wear and tear under normal usage.

D. Contractor's obligation to perform and complete the Work in accordance with the Contract Documents is absolute. None of the following will constitute an acceptance of Work that is not in accordance with the Contract Documents, a release of Contractor's obligation to perform the Work in accordance with the Contract Documents, or a release of Owner's warranty and guarantee rights under this Paragraph 7.17:

1. Observations by Engineer;

2. Recommendation by Engineer or payment by Owner of any progress or final payment;

3. The issuance of a certificate of Substantial Completion by Engineer or any payment related thereto by Owner;

4. Use or occupancy of the Work or any part thereof by Owner;

5. Any review and approval of a Shop Drawing or Sample submittal;

6. The issuance of a notice of acceptability by Engineer;

7. The end of the correction period established in Paragraph 15.08;

8. Any inspection, test, or approval by others; or

9. Any correction of defective Work by Owner.

E. If the Contract requires the Contractor to accept the assignment of a contract entered into by Owner, then the specific warranties, guarantees, and correction obligations contained in the assigned contract will govern with respect to Contractor's performance obligations to Owner for the Work described in the assigned contract.

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7.18 Indemnification

A. To the fullest extent permitted by Laws and Regulations, and in addition to any other obligations of Contractor under the Contract or otherwise, Contractor shall indemnify and hold harmless Owner and Engineer, and the officers, directors, members, partners, employees, agents, consultants and subcontractors of each and any of them, from losses, damages, costs, and judgments (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals, and all court or arbitration or other dispute resolution costs) arising from third-party claims or actions relating to or resulting from the performance or furnishing of the Work, provided that any such claim, action, loss, cost, judgment or damage is attributable to bodily injury, sickness, disease, or death, or to damage to or destruction of tangible property (other than the Work itself), including the loss of use resulting therefrom, but only to the extent caused by any negligent act or omission of Contractor, any Subcontractor, any Supplier, or any individual or entity directly or indirectly employed by any of them to perform any of the Work, or anyone for whose acts any of them may be liable.

B. In any and all claims against Owner or Engineer, or any of their officers, directors, members, partners, employees, agents, consultants, or subcontractors, by any employee (or the survivor or personal representative of such employee) of Contractor, any Subcontractor, any Supplier, or any individual or entity directly or indirectly employed by any of them to perform any of the Work, or anyone for whose acts any of them may be liable, the indemnification obligation under Paragraph 7.18.A will not be limited in any way by any limitation on the amount or type of damages, compensation, or benefits payable by or for Contractor or any such Subcontractor, Supplier, or other individual or entity under workers' compensation acts, disability benefit acts, or other employee benefit acts.

C. The indemnification obligations of Contractor under Paragraph 7.18 shall not extend to the liability of Engineer and Engineer's officers, directors, members, partners, employees, agents, consultants and subcontractors arising out of:

1. the preparation or approval of, or the failure to prepare or approve maps, Drawings, opinions, reports, surveys, Change Orders, designs, or Specifications; or

2. giving directions or instructions, or failing to give them, if that is the primary cause of the injury or damage.

D. Neither Contractor nor Owner shall sell, transfer, assign, or otherwise dispose of the contract or any portion thereof, or any right, title, or interest therein, or any obligations thereunder, without written consent of the other party.

7.19 Delegation of Professional Design Services

A. Owner may require Contractor to provide professional design services for a portion of the Work by express delegation in the Contract Documents. Such delegation will specify the performance and design criteria that such services must satisfy, and the Submittals that Contractor must furnish to Engineer with respect to the Owner-delegateddesign.

B. Contractor shall cause such Owner-delegated professional design services to be provided pursuant to the professional standard of care by a properly licensed design professional, whose signature and seal must appear on all drawings, calculations, specifications,

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certifications, and Submittals prepared by such design professional. Such design professional must issue all certifications of design required by Laws and Regulations.

C. If a Shop Drawing or other Submittal related to the Owner-delegated design is prepared by Contractor, a Subcontractor, or others for submittal to Engineer, then such Shop Drawing or other Submittal must bear the written approval of Contractor's design professional when submitted by Contractor to Engineer.

D. Owner and Engineer shall be entitled to rely upon the adequacy, accuracy, and completeness of the services, certifications, and approvals performed or provided by the design professionals retained or employed by Contractor under an Owner-delegated design, subject to the professional standard of care and the performance and design criteria stated in the Contract Documents.

E. Pursuant to this Paragraph 7.19, Engineer's review, approval, and other determinations regarding design drawings, calculations, specifications, certifications, and other Submittals furnished by Contractor pursuant to an Owner-delegated design will be only for the following limited purposes:

1. Checking for conformance with the requirements of this Paragraph 7.19;

2. Confirming that Contractor (through its design professionals) has used the performance and design criteria specified in the Contract Documents; and

3. Establishing that the design furnished by Contractor is consistent with the design concept expressed in the Contract Documents.

F. Contractor shall not be responsible for the adequacy of performance or design criteria specified by Owner or Engineer.

G. Contractor is not required to provide professional services in violation of applicable Laws and Regulations.

ARTICLE 8—OTHER WORK AT THE SITE

8.01 Other Work

A. In addition to and apart from the Work under the Contract Documents, the Owner may perform other work at or adjacent to the Site. Such other work may be performed by Owner's employees, or through contracts between the Owner and third parties. Owner may also arrange to have third-party utility owners perform work on their utilities and facilities at or adjacent to the Site.

B. If Owner performs other work at or adjacent to the Site with Owner's employees, or through contracts for such other work, then Owner shall give Contractor written notice thereof prior to starting any such other work. If Owner has advance information regarding the start of any third-party utility work that Owner has arranged to take place at or adjacent to the Site, Owner shall provide such information to Contractor.

C. Contractor shall afford proper and safe access to the Site to each contractor that performs such other work, each utility owner performing other work, and Owner, if Owner is performing other work with Owner's employees, and provide a reasonable opportunity for the introduction and storage of materials and equipment and the execution of such other work.

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D. Contractor shall do all cutting, fitting, and patching of the Work that may be required to properly connect or otherwise make its several parts come together and properly integrate with such other work. Contractor shall not endanger any work of others by cutting, excavating, or otherwise altering such work; provided, however, that Contractor may cut or alter others' work with the written consent of Engineer and the others whose work will be affected.

E. If the proper execution or results of any part of Contractor's Work depends upon work performed by others, Contractor shall inspect such other work and promptly report to Engineer in writing any delays, defects, or deficiencies in such other work that render it unavailable or unsuitable for the proper execution and results of Contractor's Work. Contractor's failure to so report will constitute an acceptance of such other work as fit and proper for integration with Contractor's Work except for latent defects and deficiencies in such other work.

F. The provisions of this article are not applicable to work that is performed by third-party utilities or other third-party entities without a contract with Owner, or that is performed without having been arranged by Owner. If such work occurs, then any related delay, disruption, or interference incurred by Contractor is governed by the provisions of Paragraph 4.05.C.3.

8.02 Coordination

A. If Owner intends to contract with others for the performance of other work at or adjacent to the Site, to perform other work at or adjacent to the Site with Owner's employees, or to arrange to have utility owners perform work at or adjacent to the Site, the following will be set forth in the Supplementary Conditions or provided to Contractor prior to the start of any such other work:

1. The identity of the individual or entity that will have authority and responsibility for coordination of the activities among the various contractors;

2. An itemization of the specific matters to be covered by such authority and responsibility; and

3. The extent of such authority and responsibilities.

B. Unless otherwise provided in the Supplementary Conditions, Owner shall have sole authority and responsibility for such coordination.

8.03 Legal Relationships

A. If, in the course of performing other work for Owner at or adjacent to the Site, the Owner's employees, any other contractor working for Owner, or any utility owner that Owner has arranged to perform work, causes damage to the Work or to the property of Contractor or its Subcontractors, or delays, disrupts, interferes with, or increases the scope or cost of the performance of the Work, through actions or inaction, then Contractor shall be entitled to an equitable adjustment in the Contract Price or the Contract Times. Contractor must submit any Change Proposal seeking an equitable adjustment in the Contract Price or the Contract Times under this paragraph within 30 days of the damaging, delaying, disrupting, or interfering event. The entitlement to, and extent of, any such equitable adjustment will take into account information (if any) regarding such other work that was provided to Contractor in the Contract Documents prior to the submittal of the Bid or the final negotiation of the terms of the

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Contract, and any remedies available to Contractor under Laws or Regulations concerning utility action or inaction. When applicable, any such equitable adjustment in Contract Price will be conditioned on Contractor assigning to Owner all Contractor's rights against such other contractor or utility owner with respect to the damage, delay, disruption, or interference that is the subject of the adjustment. Contractor's entitlement to an adjustment of the Contract Times or Contract Price is subject to the provisions of Paragraphs 4.05.D and4.05.E.

B. Contractor shall take reasonable and customary measures to avoid damaging, delaying, disrupting, or interfering with the work of Owner, any other contractor, or any utility owner performing other work at or adjacent to the Site.

1. If Contractor fails to take such measures and as a result damages, delays, disrupts, or interferes with the work of any such other contractor or utility owner, then Owner may impose a set-off against payments due Contractor, and assign to such other contractor or utility owner the Owner's contractual rights against Contractor with respect to the breach of the obligations set forth in this Paragraph 8.03.B.

2. When Owner is performing other work at or adjacent to the Site with Owner's employees, Contractor shall be liable to Owner for damage to such other work, and for the reasonable direct delay, disruption, and interference costs incurred by Owner as a result of Contractor's failure to take reasonable and customary measures with respect to Owner's other work. In response to such damage, delay, disruption, or interference, Owner may impose a set-off against payments due Contractor.

C. If Contractor damages, delays, disrupts, or interferes with the work of any other contractor, or any utility owner performing other work at or adjacent to the Site, through Contractor's failure to take reasonable and customary measures to avoid such impacts, or if any claim arising out of Contractor's actions, inactions, or negligence in performance of the Work at or adjacent to the Site is made by any such other contractor or utility owner against Contractor, Owner, or Engineer, then Contractor shall (1) promptly attempt to settle the claim as to all parties through negotiations with such other contractor or utility owner, or otherwise resolve the claim by arbitration or other dispute resolution proceeding or at law, and (2) indemnify and hold harmless Owner and Engineer, and the officers, directors, members, partners, employees, agents, consultants and subcontractors of each and any of them from and against any such claims, and against all costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such damage, delay, disruption, or interference.

ARTICLE 9—OWNER'S RESPONSIBILITIES

9.01 Communications to Contractor

A. Except as otherwise provided in these General Conditions, Owner shall issue all communications to Contractor through Engineer.

9.02 Replacement of Engineer

A. Owner may at its discretion appoint an engineer to replace Engineer~~, provided Contractor makes no reasonable objection to the replacement engineer~~. The replacement engineer's status under the Contract Documents will be that of the former Engineer.

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9.03 Furnish Data

A. Owner shall promptly furnish the data required of Owner under the ContractDocuments.

9.04 Pay When Due

A. Owner shall make payments to Contractor when they are due as provided in theAgreement.

9.05 Lands and Easements; Reports, Tests, and Drawings

A. Owner's duties with respect to providing lands and easements are set forth in Paragraph 5.01.

B. Owner's duties with respect to providing engineering surveys to establish reference points are set forth in Paragraph 4.03.

C. Article 5 refers to Owner's identifying and making available to Contractor copies of reports of explorations and tests of conditions at the Site, and drawings of physical conditions relating to existing surface or subsurface structures at the Site.

9.06 Insurance

A. Owner's responsibilities, if any, with respect to purchasing and maintaining liability and property insurance are set forth in Article 6.

9.07 Change Orders

A. Owner's responsibilities with respect to Change Orders are set forth in Article 11.

9.08 Inspections, Tests, and Approvals

A. Owner's responsibility with respect to certain inspections, tests, and approvals is set forth in Paragraph 14.02.B.

9.09 Limitations on Owner's Responsibilities

A. The Owner shall not supervise, direct, or have control or authority over, nor be responsible for, Contractor's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of Contractor to comply with Laws and Regulations applicable to the performance of the Work. Owner will not be responsible for Contractor's failure to perform the Work in accordance with the Contract Documents.

9.10 Undisclosed Hazardous Environmental Condition

A. Owner's responsibility in respect to an undisclosed Hazardous Environmental Condition is set forth in Paragraph 5.06.

9.11 Evidence of Financial Arrangements

A. Upon request of Contractor, Owner shall furnish Contractor reasonable evidence that financial arrangements have been made to satisfy Owner's obligations under the Contract (including obligations under proposed changes in the Work).

9.12 Safety Programs

A. While at the Site, Owner's employees and representatives shall comply with the specific applicable requirements of Contractor's safety programs of which Owner has been informed.

B. Owner shall furnish copies of any applicable Owner safety programs to Contractor.

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ARTICLE 10—ENGINEER'S STATUS DURING CONSTRUCTION

10.01 Owner's Representative

A. Engineer will be Owner's representative during the construction period. The duties and responsibilities and the limitations of authority of Engineer as Owner's representative during construction are set forth in the Contract.

10.02 Visits to Site

A. Engineer will make visits to the Site at intervals appropriate to the various stages of construction as Engineer deems necessary in order to observe, as an experienced and qualified design professional, the progress that has been made and the quality of the various aspects of Contractor's executed Work. Based on information obtained during such visits and observations, Engineer, for the benefit of Owner, will determine, in general, if the Work is proceeding in accordance with the Contract Documents. Engineer will not be required to make exhaustive or continuous inspections on the Site to check the quality or quantity of the Work. Engineer's efforts will be directed toward providing for Owner a greater degree of confidence that the completed Work will conform generally to the Contract Documents. On the basis of such visits and observations, Engineer will keep Owner informed of the progress of the Work and will endeavor to guard Owner against defectiveWork.

B. Engineer's visits and observations are subject to all the limitations on Engineer's authority and responsibility set forth in Paragraph 10.07. Particularly, but without limitation, during or as a result of Engineer's visits or observations of Contractor's Work, Engineer will not supervise, direct, control, or have authority over or be responsible for Contractor's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of Contractor to comply with Laws and Regulations applicable to the performance of the Work.

10.03 Resident Project Representative

A. If Owner and Engineer have agreed that Engineer will furnish a Resident Project Representative to represent Engineer at the Site and assist Engineer in observing the progress and quality of the Work, then the authority and responsibilities of any such Resident Project Representative will be as provided in the Supplementary Conditions, and limitations on the responsibilities thereof will be as provided in the Supplementary Conditions and in Paragraph 10.07.

B. If Owner designates an individual or entity who is not Engineer's consultant, agent, or employee to represent Owner at the Site, then the responsibilities and authority of such individual or entity will be as provided in the Supplementary Conditions.

10.04 Engineer's Authority

A. Engineer has the authority to reject Work in accordance with Article 14.

B. Engineer's authority as to Submittals is set forth in Paragraph 7.16.

C. Engineer's authority as to design drawings, calculations, specifications, certifications and other Submittals from Contractor in response to Owner's delegation (if any) to Contractor of professional design services, is set forth in Paragraph 7.19.

D. Engineer's authority as to changes in the Work is set forth in Article 11.

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E. Engineer's authority as to Applications for Payment is set forth in Article 15.

10.05 Determinations for Unit Price Work

A. Engineer will determine the actual quantities and classifications of Unit Price Work performed by Contractor as set forth in Paragraph 13.03.

10.06 Decisions on Requirements of Contract Documents and Acceptability of Work

A. Engineer will render decisions regarding the requirements of the Contract Documents, and judge the acceptability of the Work, pursuant to the specific procedures set forth herein for initial interpretations, Change Proposals, and acceptance of the Work. In rendering such decisions and judgments, Engineer will not show partiality to Owner or Contractor, and will not be liable to Owner, Contractor, or others in connection with any proceedings, interpretations, decisions, or judgments conducted or rendered in good faith.

10.07 Limitations on Engineer's Authority and Responsibilities

A. Neither Engineer's authority or responsibility under this Article 10 or under any other provision of the Contract, nor any decision made by Engineer in good faith either to exercise or not exercise such authority or responsibility or the undertaking, exercise, or performance of any authority or responsibility by Engineer, will create, impose, or give rise to any duty in contract, tort, or otherwise owed by Engineer to Contractor, any Subcontractor, any Supplier, any other individual or entity, or to any surety for or employee or agent of any of them.

B. Engineer will not supervise, direct, control, or have authority over or be responsible for Contractor's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of Contractor to comply with Laws and Regulations applicable to the performance of the Work. Engineer will not be responsible for Contractor's failure to perform the Work in accordance with the Contract Documents.

C. Engineer will not be responsible for the acts or omissions of Contractor or of any Subcontractor, any Supplier, or of any other individual or entity performing any of the Work.

D. Engineer's review of the final Application for Payment and accompanying documentation, and all maintenance and operating instructions, schedules, guarantees, bonds, certificates of inspection, tests and approvals, and other documentation required to be delivered by Contractor under Paragraph 15.06.A, will only be to determine generally that their content complies with the requirements of, and in the case of certificates of inspections, tests, and approvals, that the results certified indicate compliance with the ContractDocuments.

E. The limitations upon authority and responsibility set forth in this Paragraph 10.07 also apply to the Resident Project Representative, if any.

10.08 Compliance with Safety Program

A. While at the Site, Engineer's employees and representatives will comply with the specific applicable requirements of Owner's and Contractor's safety programs of which Engineer has been informed.

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ARTICLE 11—CHANGES TO THE CONTRACT

11.01 Amending and Supplementing the Contract

A. The Contract may be amended or supplemented by a Change Order, a Work Change Directive, or a Field Order.

B. If an amendment or supplement to the Contract includes a change in the Contract Price or the Contract Times, such amendment or supplement must be set forth in a Change Order.

C. All changes to the Contract that involve (1) the performance or acceptability of the Work, (1) the design (as set forth in the Drawings, Specifications, or otherwise), or (3) other engineering or technical matters, must be supported by Engineer's recommendation. Owner and Contractor may amend other terms and conditions of the Contract without the recommendation of the Engineer.

11.02 Change Orders

A. Owner and Contractor shall execute appropriate Change Orders covering:

1. Changes in Contract Price or Contract Times which are agreed to by the parties, including any undisputed sum or amount of time for Work actually performed in accordance with a Work Change Directive;

2. Changes in Contract Price resulting from an Owner set-off, unless Contractor has duly contested such set-off;

3. Changes in the Work which are: (a) ordered by Owner pursuant to Paragraph 11.05, (b) required because of Owner's acceptance of defective Work under Paragraph 14.04 or Owner's correction of defective Work under Paragraph 14.07, or (c) agreed to by the parties, subject to the need for Engineer's recommendation if the change in the Work involves the design (as set forth in the Drawings, Specifications, or otherwise) or other engineering or technical matters; and

4. Changes that embody the substance of any final and binding results under: Paragraph 11.03.B, resolving the impact of a Work Change Directive; Paragraph 11.09, concerning Change Proposals; Article 12, Claims; Paragraph 13.02.D, final adjustments resulting from allowances; Paragraph 13.03.D, final adjustments relating to determination of quantities for Unit Price Work; and similar provisions.

B. If Owner or Contractor refuses to execute a Change Order that is required to be executed under the terms of Paragraph 11.02.A, it will be deemed to be of full force and effect, as if fully executed.

11.03 Work Change Directives

A. A Work Change Directive will not change the Contract Price or the Contract Times but is evidence that the parties expect that the modification ordered or documented by a Work Change Directive will be incorporated in a subsequently issued Change Order, following negotiations by the parties as to the Work Change Directive's effect, if any, on the Contract Price and Contract Times; or, if negotiations are unsuccessful, by a determination under the terms of the Contract Documents governing adjustments, expressly including Paragraph 11.07 regarding change of Contract Price.

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B. If Owner has issued a Work Change Directive and:

1. Contractor believes that an adjustment in Contract Times or Contract Price is necessary, then Contractor shall submit any Change Proposal seeking such an adjustment no later than 30 days after the completion of the Work set out in the Work Change Directive.

2. Owner believes that an adjustment in Contract Times or Contract Price is necessary, then Owner shall submit any Claim seeking such an adjustment no later than 60 days after issuance of the Work Change Directive.

11.04 Field Orders

A. Engineer may authorize minor changes in the Work if the changes do not involve an adjustment in the Contract Price or the Contract Times and are compatible with the design concept of the completed Project as a functioning whole as indicated by the Contract Documents. Such changes will be accomplished by a Field Order and will be binding on Owner and also on Contractor, which shall perform the Work involved promptly.

B. If Contractor believes that a Field Order justifies an adjustment in the Contract Price or Contract Times, then before proceeding with the Work at issue, Contractor shall submit a Change Proposal as provided herein.

11.05 Owner-Authorized Changes in the Work

A. Without invalidating the Contract and without notice to any surety, Owner may, at any time or from time to time, order additions, deletions, or revisions in the Work. Changes involving the design (as set forth in the Drawings, Specifications, or otherwise) or other engineering or technical matters will be supported by Engineer's recommendation.

B. Such changes in the Work may be accomplished by a Change Order, if Owner and Contractor have agreed as to the effect, if any, of the changes on Contract Times or Contract Price; or by a Work Change Directive. Upon receipt of any such document, Contractor shall promptly proceed with the Work involved; or, in the case of a deletion in the Work, promptly cease construction activities with respect to such deleted Work. Added or revised Work must be performed under the applicable conditions of the Contract Documents.

C. Nothing in this Paragraph 11.05 obligates Contractor to undertake work that Contractor reasonably concludes cannot be performed in a manner consistent with Contractor's safety obligations under the Contract Documents or Laws and Regulations.

11.06 Unauthorized Changes in the Work

A. Contractor shall not be entitled to an increase in the Contract Price or an extension of the Contract Times with respect to any work performed that is not required by the Contract Documents, as amended, modified, or supplemented, except in the case of an emergency as provided in Paragraph 7.15 or in the case of uncovering Work as provided in Paragraph 14.05.C.2.

11.07 Change of Contract Price

A. The Contract Price may only be changed by a Change Order. Any Change Proposal for an adjustment in the Contract Price must comply with the provisions of Paragraph 11.09. Any Claim for an adjustment of Contract Price must comply with the provisions of Article 12.

B. An adjustment in the Contract Price will be determined as follows:

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1. Where the Work involved is covered by unit prices contained in the Contract Documents, then by application of such unit prices to the quantities of the items involved (subject to the provisions of Paragraph 13.03);
2. Where the Work involved is not covered by unit prices contained in the Contract Documents, then by a mutually agreed lump sum (which may include an allowance for overhead and profit not necessarily in accordance with Paragraph 11.07.C.2);or
3. Where the Work involved is not covered by unit prices contained in the Contract Documents and the parties do not reach mutual agreement to a lump sum, then on the basis of the Cost of the Work (determined as provided in Paragraph 13.01) plus a Contractor's fee for overhead and profit (determined as provided in Paragraph11.07.C).

C. *Contractor's Fee*: When applicable, the Contractor's fee for overhead and profit will be determined as follows:

1. A mutually acceptable fixed fee; or
2. If a fixed fee is not agreed upon, then a fee based on the following percentages of the various portions of the Cost of the Work:
    a. For costs incurred under Paragraphs 13.01.B.1 and 13.01.B.2, the Contractor's fee will be 15 percent;
    b. For costs incurred under Paragraph 13.01.B.3, the Contractor's fee will be 5percent;
    c. Where one or more tiers of subcontracts are on the basis of Cost of the Work plus a fee and no fixed fee is agreed upon, the intent of Paragraphs 11.07.C.2.a and 11.07.C.2.b is that the Contractor's fee will be based on: (1) a fee of 15 percent of the costs incurred under Paragraphs 13.01.B.1 and 13.01.B.2 by the Subcontractor that actually performs the Work, at whatever tier, and (2) with respect to Contractor itself and to any Subcontractors of a tier higher than that of the Subcontractor that actually performs the Work, a fee of 5 percent of the amount (fee plus underlying costs incurred) attributable to the next lower tier Subcontractor; provided, however, that for any such subcontracted Work the maximum total fee to be paid by Owner will be no greater than 27 percent of the costs incurred by the Subcontractor that actually performs the Work;
    d. No fee will be payable on the basis of costs itemized under Paragraphs 13.01.B.4, 13.01.B.5, and 13.01.C;
    e. The amount of credit to be allowed by Contractor to Owner for any change which results in a net decrease in Cost of the Work will be the amount of the actual net decrease in Cost of the Work and a deduction of an additional amount equal to 5 percent of such actual net decrease in Cost of the Work; and
    f. When both additions and credits are involved in any one change or Change Proposal, the adjustment in Contractor's fee will be computed by determining the sum of the costs in each of the cost categories in Paragraph 13.01.B (specifically, payroll costs, Paragraph 13.01.B.1; incorporated materials and equipment costs, Paragraph 13.01.B.2; Subcontract costs, Paragraph 13.01.B.3; special consultants costs, Paragraph 13.01.B.4; and other costs, Paragraph 13.01.B.5) and applying to each such cost category sum the appropriate fee from Paragraphs 11.07.C.2.a through 11.07.C.2.e, inclusive.

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11.08 Change of Contract Times

A. The Contract Times may only be changed by a Change Order. Any Change Proposal for an adjustment in the Contract Times must comply with the provisions of Paragraph 11.09. Any Claim for an adjustment in the Contract Times must comply with the provisions of Article 12.

B. Delay, disruption, and interference in the Work, and any related changes in Contract Times, are addressed in and governed by Paragraph 4.05.

11.09 Change Proposals

A. *Purpose and Content*: Contractor shall submit a Change Proposal to Engineer to request an adjustment in the Contract Times or Contract Price; contest an initial decision by Engineer concerning the requirements of the Contract Documents or relating to the acceptability of the Work under the Contract Documents; challenge a set-off against payment due; or seek other relief under the Contract. The Change Proposal will specify any proposed change in Contract Times or Contract Price, or other proposed relief, and explain the reason for the proposed change, with citations to any governing or applicable provisions of the Contract Documents. Each Change Proposal will address only one issue, or a set of closely related issues.

B. Change Proposal Procedures

1. *Submittal*: Contractor shall submit each Change Proposal to Engineer within 30 days after the start of the event giving rise thereto, or after such initial decision.

2. *Supporting Data*: The Contractor shall submit supporting data, including the proposed change in Contract Price or Contract Time (if any), to the Engineer and Owner within 15 days after the submittal of the Change Proposal.

    a. Change Proposals based on or related to delay, interruption, or interference must comply with the provisions of Paragraphs 4.05.D and 4.05.E.

    b. Change proposals related to a change of Contract Price must include full and detailed accounts of materials incorporated into the Work and labor and equipment used for the subject Work.

    The supporting data must be accompanied by a written statement that the supporting data are accurate and complete, and that any requested time or price adjustment is the entire adjustment to which Contractor believes it is entitled as a result of said event.

3. *Engineer's Initial Review*: Engineer will advise Owner regarding the Change Proposal, and consider any comments or response from Owner regarding the Change Proposal. If in its discretion Engineer concludes that additional supporting data is needed before conducting a full review and making a decision regarding the Change Proposal, then Engineer may request that Contractor submit such additional supporting data by a date specified by Engineer, prior to Engineer beginning its full review of the Change Proposal.

4. *Engineer's Full Review and Action on the Change Proposal*: Upon receipt of Contractor's supporting data (including any additional data requested by Engineer), Engineer will conduct a full review of each Change Proposal and, within 30 days after such receipt of the Contractor's supporting data, either approve the Change Proposal in whole, deny it in whole, or approve it in part and deny it in part. Such actions must be in writing, with a copy provided to Owner and Contractor. If Engineer does not take action on the Change

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Proposal within 30 days, then either Owner or Contractor may at any time thereafter submit a letter to the other party indicating that as a result of Engineer's inaction the Change Proposal is deemed denied, thereby commencing the time for appeal of the denial under Article 12.

5. *Binding Decision*: Engineer's decision is final and binding upon Owner and Contractor, unless Owner or Contractor appeals the decision by filing a Claim under Article12.

C. *Resolution of Certain Change Proposals*: If the Change Proposal does not involve the design (as set forth in the Drawings, Specifications, or otherwise), the acceptability of the Work, or other engineering or technical matters, then Engineer will notify the parties in writing that the Engineer is unable to resolve the Change Proposal. For purposes of further resolution of such a Change Proposal, such notice will be deemed a denial, and Contractor may choose to seek resolution under the terms of Article 12.

D. *Post-Completion*: Contractor shall not submit any Change Proposals after Engineer issues a written recommendation of final payment pursuant to Paragraph 15.06.B.

11.10 Notification to Surety

A. If the provisions of any bond require notice to be given to a surety of any change affecting the general scope of the Work or the provisions of the Contract Documents (including, but not limited to, Contract Price or Contract Times), the giving of any such notice will be Contractor's responsibility. The amount of each applicable bond will be adjusted to reflect the effect of any such change.

ARTICLE 12—CLAIMS

12.01 Claims

A. *Claims Process*: The following disputes between Owner and Contractor are subject to the Claims process set forth in this article:

1. Appeals by Owner or Contractor of Engineer's decisions regarding Change Proposals;

2. Owner demands for adjustments in the Contract Price or Contract Times, or other relief under the Contract Documents;

3. Disputes that Engineer has been unable to address because they do not involve the design (as set forth in the Drawings, Specifications, or otherwise), the acceptability of the Work, or other engineering or technical matters; and

4. Subject to the waiver provisions of Paragraph 15.07, any dispute arising after Engineer has issued a written recommendation of final payment pursuant to Paragraph15.06.B.

B. *Submittal of Claim*: The party submitting a Claim shall deliver it directly to the other party to the Contract promptly (but in no event later than 30 days) after the start of the event giving rise thereto; in the case of appeals regarding Change Proposals within 30 days of the decision under appeal. The party submitting the Claim shall also furnish a copy to the Engineer, for its information only. The responsibility to substantiate a Claim rests with the party making the Claim. In the case of a Claim by Contractor seeking an increase in the Contract Times or Contract Price, Contractor shall certify that the Claim is made in good faith, that the supporting data are accurate and complete, and that to the best of Contractor's knowledge

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and belief the amount of time or money requested accurately reflects the full amount to which Contractor is entitled.

C. *Review and Resolution*: The party receiving a Claim shall review it thoroughly, giving full consideration to its merits. The two parties shall seek to resolve the Claim through the exchange of information and direct negotiations. The parties may extend the time for resolving the Claim by mutual agreement. All actions taken on a Claim will be stated in writing and submitted to the other party, with a copy to Engineer.

D. Mediation

1. At any time after initiation of a Claim, Owner and Contractor may mutually agree to mediation of the underlying dispute. The agreement to mediate will stay the Claim submittal and response process.

2. If Owner and Contractor agree to mediation, then after 60 days from such agreement, either Owner or Contractor may unilaterally terminate the mediation process, and the Claim submittal and decision process will resume as of the date of the termination. If the mediation proceeds but is unsuccessful in resolving the dispute, the Claim submittal and decision process will resume as of the date of the conclusion of the mediation, as determined by the mediator.

3. Owner and Contractor shall each pay one-half of the mediator's fees and costs.

E. *Partial Approval*: If the party receiving a Claim approves the Claim in part and denies it in part, such action will be final and binding unless within 30 days of such action the other party invokes the procedure set forth in Article 17 for final resolution ofdisputes.

F. *Denial of Claim*: If efforts to resolve a Claim are not successful, the party receiving the Claim may deny it by giving written notice of denial to the other party. If the receiving party does not take action on the Claim within 90 days, then either Owner or Contractor may at any time thereafter submit a letter to the other party indicating that as a result of the inaction, the Claim is deemed denied, thereby commencing the time for appeal of the denial. A denial of the Claim will be final and binding unless within 30 days of the denial the other party invokes the procedure set forth in Article 17 for the final resolution ofdisputes.

G. *Final and Binding Results*: If the parties reach a mutual agreement regarding a Claim, whether through approval of the Claim, direct negotiations, mediation, or otherwise; or if a Claim is approved in part and denied in part, or denied in full, and such actions become final and binding; then the results of the agreement or action on the Claim will be incorporated in a Change Order or other written document to the extent they affect the Contract, including the Work, the Contract Times, or the Contract Price.

ARTICLE 13—COST OF THE WORK; ALLOWANCES; UNIT PRICE WORK

13.01 Cost of the Work

A. *Purposes for Determination of Cost of the Work*: The term Cost of the Work means the sum of all costs necessary for the proper performance of the Work at issue, as further defined below. The provisions of this Paragraph 13.01 are used for two distinctpurposes:

1. To determine Cost of the Work when Cost of the Work is a component of the Contract Price, under cost-plus-fee, time-and-materials, or other cost-based terms; or

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2. When needed to determine the value of a Change Order, Change Proposal, Claim, set-off, or other adjustment in Contract Price. When the value of any such adjustment is determined on the basis of Cost of the Work, Contractor is entitled only to those additional or incremental costs required because of the change in the Work or because of the event giving rise to the adjustment.

B. *Costs Included*: Except as otherwise may be agreed to in writing by Owner, costs included in the Cost of the Work will be in amounts no higher than those commonly incurred in the locality of the Project, will not include any of the costs itemized in Paragraph 13.01.C, and will include only the following items:

1. Payroll costs for employees in the direct employ of Contractor in the performance of the Work under schedules of job classifications agreed upon by Owner and Contractor in advance of the subject Work. Such employees include, without limitation, superintendents, foremen, safety managers, safety representatives, and other personnel employed full time on the Work. Payroll costs for employees not employed full time on the Work will be apportioned on the basis of their time spent on the Work. Payroll costs include, but are not limited to, salaries and wages plus the cost of fringe benefits, which include social security contributions, unemployment, excise, and payroll taxes, workers' compensation, health and retirement benefits, sick leave, and vacation and holiday pay applicable thereto. The expenses of performing Work outside of regular working hours, on Saturday, Sunday, or legal holidays, will be included in the above to the extent authorized by Owner.

2. Cost of all materials and equipment furnished and incorporated in the Work, including costs of transportation and storage thereof, and Suppliers' field services required in connection therewith. All cash discounts accrue to Contractor unless Owner deposits funds with Contractor with which to make payments, in which case the cash discounts will accrue to Owner. All trade discounts, rebates, and refunds and returns from sale of surplus materials and equipment will accrue to Owner, and Contractor shall make provisions so that they may be obtained.

3. Payments made by Contractor to Subcontractors for Work performed by Subcontractors. If required by Owner, Contractor shall obtain competitive bids from subcontractors acceptable to Owner and Contractor and shall deliver such bids to Owner, which will then determine, with the advice of Engineer, which bids, if any, will be acceptable. If any subcontract provides that the Subcontractor is to be paid on the basis of Cost of the Work plus a fee, the Subcontractor's Cost of the Work and fee will be determined in the same manner as Contractor's Cost of the Work and fee as provided in this Paragraph13.01.

4. Costs of special consultants (including but not limited to engineers, architects, testing laboratories, surveyors, attorneys, and accountants) employed or retained for services specifically related to the Work.

5. Other costs consisting of the following:

~~a.~~ The proportion of necessary transportation, travel, and subsistence expenses of Contractor's employees incurred in discharge of duties connected with the Work.

~~b.~~ Cost, including transportation and maintenance, of all materials, supplies, equipment, machinery, appliances, office, and temporary facilities at the Site, which are

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consumed in the performance of the Work, and cost, less market value, of such items used but not consumed which remain the property of Contractor.

1) In establishing included costs for materials such as scaffolding, plating, or sheeting, consideration will be given to the actual or the estimated life of the material for use on other projects; or rental rates may be established on the basis of purchase or salvage value of such items, whichever is less. Contractor will not be eligible for compensation for such items in an amount that exceeds the purchase cost of such item.

~~c.~~ *Construction Equipment Rental*

1) Rentals of all construction equipment and machinery, and the parts thereof, in accordance with rental agreements approved by Owner as to price (including any surcharge or special rates applicable to overtime use of the construction equipment or machinery), and the costs of transportation, loading, unloading, assembly, dismantling, and removal thereof. All such costs will be in accordance with the terms of said rental agreements. The rental of any such equipment, machinery, or parts must cease when the use thereof is no longer necessary for the Work.

2) Costs for equipment and machinery owned by Contractor or a Contractor-related entity will be paid at a rate shown for such equipment in the equipment rental rate book specified in the Supplementary Conditions. An hourly rate will be computed by dividing the monthly rates by 176. These computed rates will include all operating costs.

3) With respect to Work that is the result of a Change Order, Change Proposal, Claim, set-off, or other adjustment in Contract Price ("changed Work"), included costs will be based on the time the equipment or machinery is in use on the changed Work and the costs of transportation, loading, unloading, assembly, dismantling, and removal when directly attributable to the changed Work. The cost of any such equipment or machinery, or parts thereof, must cease to accrue when the use thereof is no longer necessary for the changed Work.

~~d.~~ Sales, consumer, use, and other similar taxes related to the Work, and for which Contractor is liable, as imposed by Laws and Regulations.

~~e.~~ Deposits lost for causes other than negligence of Contractor, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, and royalty payments and fees for permits and licenses.

~~f.~~ Losses and damages (and related expenses) caused by damage to the Work, not compensated by insurance or otherwise, sustained by Contractor in connection with the performance of the Work (except losses and damages within the deductible amounts of builder's risk or other property insurance established in accordance with Paragraph 6.04), provided such losses and damages have resulted from causes other than the negligence of Contractor, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable. Such losses include settlements made with the written consent and approval of Owner. No such losses, damages, and expenses will be included in the Cost of the Work for the purpose of determining Contractor's fee.

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~~g.~~ The cost of utilities, fuel, and sanitary facilities at the Site.

~~h.~~ Minor expenses such as communication service at the Site, express and courier services, and similar petty cash items in connection with the Work.

~~i.~~ The costs of premiums for all bonds and insurance that Contractor is required by the Contract Documents to purchase and maintain.

~~j.~~ The cost of specific consideration for the indemnifications set forth in paragraph 7.18.

~~k.~~ The cost of compliance with current local, state, and federal safety regulations.

C. *Costs Excluded*: The term Cost of the Work does not include any of the followingitems:

1. Payroll costs and other compensation of Contractor's officers, executives, principals, general managers, engineers, architects, estimators, attorneys, auditors, accountants, purchasing and contracting agents, expediters, timekeepers, clerks, and other personnel employed by Contractor, whether at the Site or in Contractor's principal or branch office for general administration of the Work and not specifically included in the agreed upon schedule of job classifications referred to in Paragraph 13.01.B.1 or specifically covered by Paragraph 13.01.B.4. The payroll costs and other compensation excluded here are to be considered administrative costs covered by the Contractor's fee.
2. The cost of purchasing, renting, or furnishing small tools and hand tools.
3. Expenses of Contractor's principal and branch offices other than Contractor's office at the Site.
4. Any part of Contractor's capital expenses, including interest on Contractor's capital employed for the Work and charges against Contractor for delinquentpayments.
5. Costs due to the negligence of Contractor, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, including but not limited to, the correction of defective Work, disposal of materials or equipment wrongly supplied, and making good any damage to property.
6. Expenses incurred in preparing and advancing Claims.
7. Other overhead or general expense costs of any kind and the costs of any item not specifically and expressly included in Paragraph 13.01.B.

D. Contractor's Fee

1. When the Work as a whole is performed on the basis of cost-plus-a-fee,then:

~~a.~~ Contractor's fee for the Work set forth in the Contract Documents as of the Effective Date of the Contract will be determined as set forth in the Agreement.

~~b.~~ for any Work covered by a Change Order, Change Proposal, Claim, set-off, or other adjustment in Contract Price on the basis of Cost of the Work, Contractor's fee will be determined as follows:

1) When the fee for the Work as a whole is a percentage of the Cost of the Work, the fee will automatically adjust as the Cost of the Work changes.

2) When the fee for the Work as a whole is a fixed fee, the fee for any additions or deletions will be determined in accordance with Paragraph 11.07.C.2.

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2. When the Work as a whole is performed on the basis of a stipulated sum, or any other basis other than cost-plus-a-fee, then Contractor's fee for any Work covered by a Change Order, Change Proposal, Claim, set-off, or other adjustment in Contract Price on the basis of Cost of the Work will be determined in accordance with Paragraph 11.07.C.2.

E. *Documentation and Audit*: Whenever the Cost of the Work for any purpose is to be determined pursuant to this Article 13, Contractor and pertinent Subcontractors will establish and maintain records of the costs in accordance with generally accepted accounting practices. Subject to prior written notice, Owner will be afforded reasonable access, during normal business hours, to all Contractor's accounts, records, books, correspondence, instructions, drawings, receipts, vouchers, memoranda, and similar data relating to the Cost of the Work and Contractor's fee. Contractor shall preserve all such documents for a period of three years after the final payment by Owner. Pertinent Subcontractors will afford such access to Owner, and preserve such documents, to the same extent required of Contractor.

13.02 Allowances

A. It is understood that Contractor has included in the Contract Price all allowances so named in the Contract Documents and shall cause the Work so covered to be performed for such sums and by such persons or entities as may be acceptable to Owner andEngineer.

B. *Cash Allowances*: Contractor agrees that:

1. the cash allowances include the cost to Contractor (less any applicable trade discounts) of materials and equipment required by the allowances to be delivered at the Site, and all applicable taxes; and

2. Contractor's costs for unloading and handling on the Site, labor, installation, overhead, profit, and other expenses contemplated for the cash allowances have been included in the Contract Price and not in the allowances, and no demand for additional payment for any of the foregoing will be valid.

C. *Owner's Contingency Allowance*: Contractor agrees that an Owner's contingency allowance, if any, is for the sole use of Owner to cover unanticipatedcosts.

D. Prior to final payment, an appropriate Change Order will be issued as recommended by Engineer to reflect actual amounts due Contractor for Work covered by allowances, and the Contract Price will be correspondingly adjusted.

13.03 Unit Price Work

A. Where the Contract Documents provide that all or part of the Work is to be Unit Price Work, initially the Contract Price will be deemed to include for all Unit Price Work an amount equal to the sum of the unit price for each separately identified item of Unit Price Work times the estimated quantity of each item as indicated in the Agreement.

B. The estimated quantities of items of Unit Price Work are not guaranteed and are solely for the purpose of comparison of Bids and determining an initial Contract Price. Payments to Contractor for Unit Price Work will be based on actualquantities.

C. Each unit price will be deemed to include an amount considered by Contractor to be adequate to cover Contractor's overhead and profit for each separately identifieditem.

D. Engineer will determine the actual quantities and classifications of Unit Price Work performed by Contractor. Engineer will review with Contractor the Engineer's preliminary

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determinations on such matters before rendering a written decision thereon (by recommendation of an Application for Payment or otherwise). Engineer's written decision thereon will be final and binding (except as modified by Engineer to reflect changed factual conditions or more accurate data) upon Owner and Contractor, and the final adjustment of Contract Price will be set forth in a Change Order, subject to the provisions of the following paragraph.

E. ~~Adjustments in Unit P~~rice

1. ~~Contractor or Owner shall be entitled to an adjustment in the unit price with respec~~t to ~~an item of Unit Price Wor~~k if:

   ~~a. the quantity of the item of Unit Price Work performed by Contractor differs mater~~ially ~~and significantly from the estimated quantity of such item indicated in~~ the ~~Agreement;~~ and

   ~~b. Contractor's unit costs to perform the item of Unit Price Work have chan~~ged ~~materially and significantly as a result of the quantity chan~~ge.

2. ~~The adjustment in unit price will account for and be coordinated with any related chan~~ges ~~in quantities of other items of Work, and in Contractor's costs to perform such o~~ther ~~Work, such that the resulting overall change in Contract Price is equitable to Owner~~ and ~~Contrac~~tor.

3. ~~Adjusted unit prices will apply to all units of that it~~em.

4. If Owner objects to Contractor's quoted adjustment in Unit Price Work, Owner may assign such Work to its own forces or another contractor.

5. Owner reserves the right to delete any Unit Price Work without financial penalty incurred from Contractor.

ARTICLE 14—TESTS AND INSPECTIONS; CORRECTION, REMOVAL, OR ACCEPTANCE OF DEFECTIVE WORK

14.01 Access to Work

A. Owner, Engineer, their consultants and other representatives and personnel of Owner, independent testing laboratories, and authorities having jurisdiction have access to the Site and the Work at reasonable times for their observation, inspection, and testing. Contractor shall provide them proper and safe conditions for such access and advise them of Contractor's safety procedures and programs so that they may comply with such procedures and programs as applicable.

14.02 Tests, Inspections, and Approvals

A. Contractor shall give Engineer timely notice of readiness of the Work (or specific parts thereof) for all required inspections and tests, and shall cooperate with inspection and testing personnel to facilitate required inspections and tests. Contractor shall reimburse Owner for the charges of Engineer and Engineer's Consultants for all costs due to work not being ready for tests and/or inspections when the Contractor has notified Engineer that work is ready for tests and/or inspections. Contractor shall reimburse Owner for all failed tests and subsequent retests. Reimbursement for the charges shall be a deduction from the Contractor's Partial Payment(s).

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B. ~~Owner shall retain and pay for the services of an independent inspector, testing laboratory, or other qualified individual or entity to perform all inspections and tests expressly required by the Contract Documents to be furnished and paid for by Owner, except that costs incurred in connection with tests or inspections of covered Work will be governed by the provisions of Paragraph 14.05~~ The Contractor shall obtain and employ an independent testing laboratory to provide the services specified herein and shall include all costs for these services in the contract price. The Contractor shall submit for approval by the Owner and Engineer, the independent testing laboratory, including qualifications.

Copies of all testing agency invoices submitted to the Contractor for payment shall be forwarded with the Contractor's request for partial payment. Invoices shall be submitted routinely throughout the project and shall be pertinent to the partial payment period under consideration. Testing agency invoices in excess of sixty (60) days old shall not be considered for payment, Invoices shall clearly indicate if the invoiced testing cost is a result of retests required due to the Contractor's failure to achieve specified requirements. The cost of retesting due to the test failure will be borne by the Contractor. Payment to the Contractor for testing shall not be made without the required itemized invoicing.

C. If Laws or Regulations of any public body having jurisdiction require any Work (or part thereof) specifically to be inspected, tested, or approved by an employee or other representative of such public body, Contractor shall assume full responsibility for arranging and obtaining such inspections, tests, or approvals, pay all costs in connection therewith, and furnish Engineer the required certificates of inspection or approval.

D. Contractor shall be responsible for arranging, obtaining, and paying for all inspections and tests required:

1. by the Contract Documents, unless the Contract Documents expressly allocate responsibility for a specific inspection or test to Owner;
2. to attain Owner's and Engineer's acceptance of materials or equipment to be incorporated in the Work;
3. by manufacturers of equipment furnished under the Contract Documents;
4. for testing, adjusting, and balancing of mechanical, electrical, and other equipment to be incorporated into the Work; and
5. for acceptance of materials, mix designs, or equipment submitted for approval prior to Contractor's purchase thereof for incorporation in the Work.

Such inspections and tests will be performed by independent inspectors, testing laboratories, or other qualified individuals or entities acceptable to Owner and Engineer.

E. If the Contract Documents require the Work (or part thereof) to be approved by Owner, Engineer, or another designated individual or entity, then Contractor shall assume full responsibility for arranging and obtaining such approvals.

F. If any Work (or the work of others) that is to be inspected, tested, or approved is covered by Contractor without written concurrence of Engineer, Contractor shall, if requested by Engineer, uncover such Work for observation. Such uncovering will be at Contractor's expense unless Contractor had given Engineer timely notice of Contractor's intention to cover the same and Engineer had not acted with reasonable promptness in response to such notice.

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14.03 Defective Work

A. *Contractor's Obligation*: It is Contractor's obligation to assure that the Work is notdefective.

B. *Engineer's Authority*: Engineer has the authority to determine whether Work is defective, and to reject defective Work.

C. *Notice of Defects*: Prompt written notice of all defective Work of which Owner or Engineer has actual knowledge will be given to Contractor.

D. *Correction, or Removal and Replacement*: Promptly after receipt of written notice of defective Work, Contractor shall correct all such defective Work, whether or not fabricated, installed, or completed, or, if Engineer has rejected the defective Work, remove it from the Project and replace it with Work that is not defective.

E. *Preservation of Warranties*: When correcting defective Work, Contractor shall take no action that would void or otherwise impair Owner's special warranty and guarantee, if any, on said Work.

F. *Costs and Damages*: In addition to its correction, removal, and replacement obligations with respect to defective Work, Contractor shall pay all claims, costs, losses, and damages arising out of or relating to defective Work, including but not limited to the cost of the inspection, testing, correction, removal, replacement, or reconstruction of such defective Work, fines levied against Owner by governmental authorities because the Work is defective, and the costs of repair or replacement of work of others resulting from defective Work. Prior to final payment, if Owner and Contractor are unable to agree as to the measure of such claims, costs, losses, and damages resulting from defective Work, then Owner may impose a reasonable set-off against payments due under Article 15.

14.04 Acceptance of Defective Work

A. If, instead of requiring correction or removal and replacement of defective Work, Owner prefers to accept it, Owner may do so (subject, if such acceptance occurs prior to final payment, to Engineer's confirmation that such acceptance is in general accord with the design intent and applicable engineering principles, and will not endanger public safety). Contractor shall pay all claims, costs, losses, and damages attributable to Owner's evaluation of and determination to accept such defective Work (such costs to be approved by Engineer as to reasonableness), and for the diminished value of the Work to the extent not otherwise paid by Contractor. If any such acceptance occurs prior to final payment, the necessary revisions in the Contract Documents with respect to the Work will be incorporated in a Change Order. If the parties are unable to agree as to the decrease in the Contract Price, reflecting the diminished value of Work so accepted, then Owner may impose a reasonable set-off against payments due under Article 15. If the acceptance of defective Work occurs after final payment, Contractor shall pay an appropriate amount to Owner.

14.05 Uncovering Work

A. Engineer has the authority to require additional inspection or testing of the Work, whether or not the Work is fabricated, installed, or completed.

B. If any Work is covered contrary to the written request of Engineer, then Contractor shall, if requested by Engineer, uncover such Work for Engineer's observation, and then replace the covering, all at Contractor's expense.

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C. If Engineer considers it necessary or advisable that covered Work be observed by Engineer or inspected or tested by others, then Contractor, at Engineer's request, shall uncover, expose, or otherwise make available for observation, inspection, or testing as Engineer may require, that portion of the Work in question, and provide all necessary labor, material, and equipment.

1. If it is found that the uncovered Work is defective, Contractor shall be responsible for all claims, costs, losses, and damages arising out of or relating to such uncovering, exposure, observation, inspection, and testing, and of satisfactory replacement or reconstruction (including but not limited to all costs of repair or replacement of work of others); and pending Contractor's full discharge of this responsibility the Owner shall be entitled to impose a reasonable set-off against payments due under Article 15.

2. If the uncovered Work is not found to be defective, Contractor shall be allowed an increase in the Contract Price or an extension of the Contract Times, directly attributable to such uncovering, exposure, observation, inspection, testing, replacement, and reconstruction. If the parties are unable to agree as to the amount or extent thereof, then Contractor may submit a Change Proposal within 30 days of the determination that the Work is not defective.

14.06 Owner May Stop the Work

A. If the Work is defective, or Contractor fails to supply sufficient skilled workers or suitable materials or equipment, or fails to perform the Work in such a way that the completed Work will conform to the Contract Documents, then Owner may order Contractor to stop the Work, or any portion thereof, until the cause for such order has been eliminated; however, this right of Owner to stop the Work will not give rise to any duty on the part of Owner to exercise this right for the benefit of Contractor, any Subcontractor, any Supplier, any other individual or entity, or any surety for, or employee or agent of any of them.

14.07 Owner May Correct Defective Work

A. If Contractor fails within a reasonable time after written notice from Engineer to correct defective Work, or to remove and replace defective Work as required by Engineer, then Owner may, after 7 days' written notice to Contractor, correct or remedy any such deficiency.

B. In exercising the rights and remedies under this Paragraph 14.07, Owner shall proceed expeditiously. In connection with such corrective or remedial action, Owner may exclude Contractor from all or part of the Site, take possession of all or part of the Work and suspend Contractor's services related thereto, and incorporate in the Work all materials and equipment stored at the Site or for which Owner has paid Contractor but which are stored elsewhere. Contractor shall allow Owner, Owner's representatives, agents and employees, Owner's other contractors, and Engineer and Engineer's consultants access to the Site to enable Owner to exercise the rights and remedies under this paragraph.

C. All claims, costs, losses, and damages incurred or sustained by Owner in exercising the rights and remedies under this Paragraph 14.07 will be charged against Contractor as set-offs against payments due under Article 15. Such claims, costs, losses and damages will include but not be limited to all costs of repair, or replacement of work of others destroyed or damaged by correction, removal, or replacement of Contractor's defective Work.

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D. Contractor shall not be allowed an extension of the Contract Times because of any delay in the performance of the Work attributable to the exercise by Owner of Owner's rights and remedies under this Paragraph 14.07.

ARTICLE 15—PAYMENTS TO CONTRACTOR; SET-OFFS; COMPLETION; CORRECTION PERIOD

15.01 Progress Payments

A. *Basis for Progress Payments*: The Schedule of Values established as provided in Article 2 will serve as the basis for progress payments and will be incorporated into a form of Application for Payment acceptable to Engineer. Progress payments for Unit Price Work will be based on the number of units completed during the pay period, as determined under the provisions of Paragraph 13.03. Progress payments for cost-based Work will be based on Cost of the Work completed by Contractor during the pay period.

B. Applications for Payments

1. At least 20 days before the date established in the Agreement for each progress payment (but not more often than once a month), Contractor shall submit to Engineer for review an Application for Payment filled out and signed by Contractor covering the Work completed as of the date of the Application and accompanied by such supporting documentation as is required by the Contract Documents.

2. If payment is requested on the basis of materials and equipment not incorporated in the Work but delivered and suitably stored at the Site or at another location agreed to in writing, the Application for Payment must also be accompanied by: (a) a bill of sale, invoice, copies of subcontract or purchase order payments, or other documentation establishing full payment by Contractor for the materials and equipment; (b) at Owner's request, documentation warranting that Owner has received the materials and equipment free and clear of all Liens; and (c) evidence that the materials and equipment are covered by appropriate property insurance, a warehouse bond, or other arrangements to protect Owner's interest therein, all of which must be satisfactory to Owner.

3. Beginning with the second Application for Payment, each Application. shall include an affidavit of Contractor certifying that Contractor has disbursed to all subcontractors and suppliers having an interest in the contract their pro rata shares of the payment out of previous progress payments received by Contractor for all work completed and materials furnished in the previous work period, less a retainage withheld by Contractor pursuant to an agreement with a subcontractor. Within thirty (30) days of receipt for the final progress payment or any other payments received thereafter except the final payment, Contractor shall pay all subcontractors and suppliers having an interest in the contract their pro rata shares of the payment for all work completed and materials furnished. must include an affidavit of Contractor stating that all previous progress payments received by Contractor have been applied to discharge Contractor's legitimate obligations associated with prior Applications for Payment

4. The amount of retainage with respect to progress payments will be as stipulated in the Agreement.

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C. Review of Applications

1. Engineer will, within 10 days after receipt of each Application for Payment, including each resubmittal, either indicate in writing a recommendation of payment and present the Application to Owner, or return the Application to Contractor indicating in writing Engineer's reasons for refusing to recommend payment. In the latter case, Contractor may make the necessary corrections and resubmit the Application or direct Engineer to present the Application to Owner with Engineer's recommendation of partialpayment.

2. Engineer's recommendation of any payment requested in an Application for Payment will constitute a representation by Engineer to Owner, based on Engineer's observations of the executed Work as an experienced and qualified design professional, and on Engineer's review of the Application for Payment and the accompanying data and schedules and the Contract Documents, that to the best of Engineer's knowledge, information and belief:

   a. the Work has progressed to the point indicated;

   b. the quality of the Work is generally in accordance with the Contract Documents (subject to an evaluation of the Work as a functioning whole prior to or upon Substantial Completion, the results of any subsequent tests called for in the Contract Documents, a final determination of quantities and classifications for Unit Price Work under Paragraph 13.03, and any other qualifications stated in the recommendation); and

   c. the conditions precedent to Contractor's being entitled to such payment appear to have been fulfilled in so far as it is Engineer's responsibility to observe the Work.

   d. Contractor's other obligations under the Contract Documents have been fulfilled.

3. By recommending any such payment Engineer will not thereby be deemed to have represented that:

   a. inspections made to check the quality or the quantity of the Work as it has been performed have been exhaustive, extended to every aspect of the Work in progress, or involved detailed inspections of the Work beyond the responsibilities specifically assigned to Engineer in the Contract; or

   b. there may not be other matters or issues between the parties that might entitle Contractor to be paid additionally by Owner or entitle Owner to withhold payment to Contractor.

4. Neither Engineer's review of Contractor's Work for the purposes of recommending payments nor Engineer's recommendation of any payment, including final payment, will impose responsibility on Engineer:

   a. to supervise, direct, or control the Work;

   b. for the means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto;

   c. for Contractor's failure to comply with Laws and Regulations applicable to Contractor's performance of the Work;

   d. to make any examination to ascertain how or for what purposes Contractor has used the money paid by Owner; or

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e. to determine that title to any of the Work, materials, or equipment has passed to Owner free and clear of any Liens.

5. Engineer may refuse to recommend the whole or any part of any payment if, in Engineer's opinion, it would be incorrect to make the representations to Owner stated in Paragraph 15.01.C.2.

6. Engineer will recommend reductions in payment (set-offs) necessary in Engineer's opinion to protect Owner from loss because:

   a. the Work is defective, requiring correction or replacement;

   b. the Contract Price has been reduced by Change Orders;

   c. Owner has been required to correct defective Work in accordance with Paragraph 14.07, or has accepted defective Work pursuant to Paragraph14.04;

   d. Owner has been required to remove or remediate a Hazardous Environmental Condition for which Contractor is responsible; or

   e. Engineer has actual knowledge of the occurrence of any of the events that would constitute a default by Contractor and therefore justify termination for cause under the Contract Documents.

D. Payment Becomes Due

1. Ten days after presentation of the Application for Payment to Owner with Engineer's recommendation, the amount recommended (subject to any Owner set-offs) will become due, and when due will be paid by Owner to Contractor.

E. Reductions in Payment by Owner

1. In addition to any reductions in payment (set-offs) recommended by Engineer, Owner is entitled to impose a set-off against payment based on any of thefollowing:

   a. Claims have been made against Owner based on Contractor's conduct in the performance or furnishing of the Work, or Owner has incurred costs, losses, or damages resulting from Contractor's conduct in the performance or furnishing of the Work, including but not limited to claims, costs, losses, or damages from workplace injuries, adjacent property damage, non-compliance with Laws and Regulations, and patent infringement;

   b. Contractor has failed to take reasonable and customary measures to avoid damage, delay, disruption, and interference with other work at or adjacent to theSite;

   c. Contractor has failed to provide and maintain required bonds orinsurance;

   d. Owner has been required to remove or remediate a Hazardous Environmental Condition for which Contractor is responsible;

   e. Owner has incurred extra charges or engineering costs related to submittal reviews, evaluations of proposed substitutes, tests and inspections, or return visits to manufacturing or assembly facilities;

   f. The Work is defective, requiring correction or replacement;

   g. Owner has been required to correct defective Work in accordance with Paragraph 14.07, or has accepted defective Work pursuant to Paragraph14.04;

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h. The Contract Price has been reduced by Change Orders;

i. An event has occurred that would constitute a default by Contractor and therefore justify a termination for cause;

j. Liquidated or other damages have accrued as a result of Contractor's failure to achieve Milestones, Substantial Completion, or final completion of theWork;

k. Liens have been filed in connection with the Work, except where Contractor has delivered a specific bond satisfactory to Owner to secure the satisfaction and discharge of such Liens; or

l. Other items entitle Owner to a set-off against the amountrecommended.

2. If Owner imposes any set-off against payment, whether based on its own knowledge or on the written recommendations of Engineer, Owner will give Contractor immediate written notice (with a copy to Engineer) stating the reasons for such action and the specific amount of the reduction, and promptly pay Contractor any amount remaining after deduction of the amount so withheld. Owner shall promptly pay Contractor the amount so withheld, or any adjustment thereto agreed to by Owner and Contractor, if Contractor remedies the reasons for such action. The reduction imposed will be binding on Contractor unless it duly submits a Change Proposal contesting thereduction.

3. Upon a subsequent determination that Owner's refusal of payment was not justified, the amount wrongfully withheld will be treated as an amount due as determined by Paragraph 15.01.D.1 and subject to interest as provided in the Agreement.

15.02 Contractor's Warranty of Title

A. Contractor warrants and guarantees that title to all Work, materials, and equipment furnished under the Contract will pass to Owner free and clear of (1) all Liens and other title defects, and (2) all patent, licensing, copyright, or royalty obligations, no later than 7 days after the time of payment by Owner.

15.03 Substantial Completion

A. When Contractor considers the entire Work ready for its intended use Contractor shall notify Owner and Engineer in writing that the entire Work is substantially complete and request that Engineer issue a certificate of Substantial Completion. Contractor shall at the same time submit to Owner and Engineer an initial draft of punch list items to be completed or corrected before final payment.

B. Promptly after Contractor's notification, Owner, Contractor, and Engineer shall make an inspection of the Work to determine the status of completion. If Engineer does not consider the Work substantially complete, Engineer will notify Contractor in writing giving the reasons therefor.

C. If Engineer considers the Work substantially complete, Engineer will deliver to Owner a preliminary certificate of Substantial Completion which will fix the date of Substantial Completion. Engineer shall attach to the certificate a punch list of items to be completed or corrected before final payment. Owner shall have 7 days after receipt of the preliminary certificate during which to make written objection to Engineer as to any provisions of the certificate or attached punch list. If, after considering the objections to the provisions of the preliminary certificate, Engineer concludes that the Work is not substantially complete,

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Engineer will, within 14 days after submission of the preliminary certificate to Owner, notify Contractor in writing that the Work is not substantially complete, stating the reasons therefor. If Owner does not object to the provisions of the certificate, or if despite consideration of Owner's objections Engineer concludes that the Work is substantially complete, then Engineer will, within said 14 days, execute and deliver to Owner and Contractor a final certificate of Substantial Completion (with a revised punch list of items to be completed or corrected) reflecting such changes from the preliminary certificate as Engineer believes justified after consideration of any objections from Owner.

D. At the time of receipt of the preliminary certificate of Substantial Completion, Owner and Contractor will confer regarding Owner's use or occupancy of the Work following Substantial Completion, review the builder's risk insurance policy with respect to the end of the builder's risk coverage, and confirm the transition to coverage of the Work under a permanent property insurance policy held by Owner. Unless Owner and Contractor agree otherwise in writing, Owner shall bear responsibility for security, operation, protection of the Work, property insurance, maintenance, heat, and utilities upon Owner's use or occupancy of the Work.

E. After Substantial Completion the Contractor shall promptly begin work on the punch list of items to be completed or corrected prior to final payment. In appropriate cases Contractor may submit monthly Applications for Payment for completed punch list items, following the progress payment procedures set forth above.

F. Owner shall have the right to exclude Contractor from the Site after the date of Substantial Completion subject to allowing Contractor reasonable access to remove its property and complete or correct items on the punch list.

15.04 Partial Use or Occupancy

A. Prior to Substantial Completion of all the Work, Owner may use or occupy any substantially completed part of the Work which has specifically been identified in the Contract Documents, or which Owner, Engineer, and Contractor agree constitutes a separately functioning and usable part of the Work that can be used by Owner for its intended purpose without significant interference with Contractor's performance of the remainder of the Work, subject to the following conditions:

1. At any time, Owner may request in writing that Contractor permit Owner to use or occupy any such part of the Work that Owner believes to be substantially complete. If and when Contractor agrees that such part of the Work is substantially complete, Contractor, Owner, and Engineer will follow the procedures of Paragraph 15.03.A through 15.03.E for that part of the Work.

2. At any time, Contractor may notify Owner and Engineer in writing that Contractor considers any such part of the Work substantially complete and request Engineer to issue a certificate of Substantial Completion for that part of the Work.

3. Within a reasonable time after either such request, Owner, Contractor, and Engineer shall make an inspection of that part of the Work to determine its status of completion. If Engineer does not consider that part of the Work to be substantially complete, Engineer will notify Owner and Contractor in writing giving the reasons therefor. If Engineer considers that part of the Work to be substantially complete, the provisions of

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Paragraph 15.03 will apply with respect to certification of Substantial Completion of that part of the Work and the division of responsibility in respect thereof and access thereto.

4. No use or occupancy or separate operation of part of the Work may occur prior to compliance with the requirements of Paragraph 6.04 regarding builder's risk or other property insurance.

15.05 Final Inspection

A. Upon written notice from Contractor that the entire Work or an agreed portion thereof is complete, Engineer will promptly make a final inspection with Owner and Contractor and will notify Contractor in writing of all particulars in which this inspection reveals that the Work, or agreed portion thereof, is incomplete or defective. Contractor shall immediately take such measures as are necessary to complete such Work or remedy suchdeficiencies.

15.06 Final Payment

A. Application for Payment

1. After Contractor has, in the opinion of Engineer, satisfactorily completed all corrections identified during the final inspection and has delivered, in accordance with the Contract Documents, all maintenance and operating instructions, schedules, guarantees, bonds, certificates or other evidence of insurance, certificates of inspection, annotated record documents (as provided in Paragraph 7.12), and other documents, Contractor may make application for final payment.

2. The final Application for Payment must be accompanied (except as previously delivered) by:

   a. all documentation called for in the Contract Documents;

   b. consent of the surety, if any, to final payment;

   c. satisfactory evidence that all title issues have been resolved such that title to all Work, materials, and equipment has passed to Owner free and clear of any Liens or other title defects, or will so pass upon final payment.

   d. a list of all duly pending Change Proposals and Claims; and

   e. complete and legally effective releases or waivers (satisfactory to Owner) of all Lien rights arising out of the Work, and of Liens filed in connection with the Work.

3. In lieu of the releases or waivers of Liens specified in Paragraph 15.06.A.2 and as approved by Owner, Contractor may furnish receipts or releases in full and an affidavit of Contractor that: (a) the releases and receipts include all labor, services, material, and equipment for which a Lien could be filed; and (b) all payrolls, material and equipment bills, and other indebtedness connected with the Work for which Owner might in any way be responsible, or which might in any way result in liens or other burdens on Owner's property, have been paid or otherwise satisfied. If any Subcontractor or Supplier fails to furnish such a release or receipt in full, Contractor may furnish a bond or other collateral satisfactory to Owner to indemnify Owner against any Lien, or Owner at its option may issue joint checks payable to Contractor and specified Subcontractors and Suppliers.

B. *Engineer's Review of Final Application and Recommendation of Payment*: ~~If, on the basis of Engineer's observation of the Work during construction and final inspection, and Engineer's~~

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~~review of the final Application for Payment and accompanying documentation as required by the Contract Documents, Engineer is satisfied that the Work has been completed and Contractor's other obligations under the Contract have been fulfilled, Engineer will, within 10 days after receipt of the final Application for Payment, indicate in writing Engineer's recommendation of final payment and present the final Application for Payment to Owner for payment. Such recommendation will account for any set-offs against payment that are necessary in Engineer's opinion to protect Owner from loss for the reasons stated above with respect to progress payments. Otherwise, Engineer will return the Application for Payment to Contractor, indicating in writing the reasons for refusing to recommend final payment, in which case Contractor shall make the necessary corrections and resubmit the Application for Payment~~ The acceptance of Final Payment by Contractor designated and identified by Engineer as Final Payment shall be and shall operate as a release to Owner of all claims and ~~all liability to Contractor other than claims in stated amounts as may be specifically excepted~~ by Contractor for all things done or finished in connection it the Work and for every act of Owner and others relating to or arising out of the Work. Any payment, however, final or otherwise, shall not release Contractor or Contractor's Surety(ies) from any obligations under the Contract Documents or Bonds.

C. *Notice of Acceptability*: In support of its recommendation of payment of the final Application for Payment, Engineer will also give written notice to Owner and Contractor that the Work is acceptable, subject to stated limitations in the notice and to the provisions of Paragraph 15.07.

D. *Completion of Work*: The Work is complete (subject to surviving obligations) when it is ready for final payment as established by the Engineer's written recommendation of final payment and issuance of notice of the acceptability of the Work.

E. *Final Payment Becomes Due*: Upon receipt from Engineer of the final Application for Payment and accompanying documentation, Owner shall set off against the amount recommended by Engineer for final payment any further sum to which Owner is entitled, including but not limited to set-offs for liquidated damages and set-offs allowed under the provisions of this Contract with respect to progress payments. Owner shall pay the resulting balance due to Contractor within 30 days of Owner's receipt of the final Application for Payment from Engineer.

15.07 Waiver of Claims

A. By making final payment, Owner waives its claim or right to liquidated damages or other damages for late completion by Contractor, except as set forth in an outstanding Claim, appeal under the provisions of Article 17, set-off, or express reservation of rights by Owner. Owner reserves all other claims or rights after final payment.

B. The acceptance of final payment by Contractor will constitute a waiver by Contractor of all claims and rights against Owner other than those pending matters that have been duly submitted as a Claim, or appealed under the provisions of Article 17.

15.08 Correction Period

A. If within one year after the date of Substantial Completion (or such longer period of time as may be prescribed by the Supplementary Conditions or the terms of any applicable special guarantee required by the Contract Documents), Owner gives Contractor written notice that any Work has been found to be defective, or that Contractor's repair of any damages to the

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Site or adjacent areas has been found to be defective, then after receipt of such notice of defect Contractor shall promptly, without cost to Owner and in accordance with Owner's written instructions:

1. correct the defective repairs to the Site or such adjacent areas;
2. correct such defective Work;
3. remove the defective Work from the Project and replace it with Work that is not defective, if the defective Work has been rejected by Owner, and
4. satisfactorily correct or repair or remove and replace any damage to other Work, to the work of others, or to other land or areas resulting from the corrective measures.

B. Owner shall give any such notice of defect within 60 days of the discovery that such Work or repairs is defective. If such notice is given within such 60 days but after the end of the correction period, the notice will be deemed a notice of defective Work under Paragraph 7.17.B.

C. If, after receipt of a notice of defect within 60 days and within the correction period, Contractor does not promptly comply with the terms of Owner's written instructions, or in an emergency where delay would cause serious risk of loss or damage, Owner may have the defective Work corrected or repaired or may have the rejected Work removed and replaced. Contractor shall pay all costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such correction or repair or such removal and replacement (including but not limited to all costs of repair or replacement of work of others). Contractor's failure to pay such costs, losses, and damages within 10 days of invoice from Owner will be deemed the start of an event giving rise to a Claim under Paragraph 12.01.B, such that any related Claim must be brought within 30 days of the failure to pay.

D. In special circumstances where a particular item of equipment is placed in continuous service before Substantial Completion of all the Work, the correction period for that item may start to run from an earlier date if so provided in the Specifications.

E. Where defective Work (and damage to other Work resulting therefrom) has been corrected or removed and replaced under this paragraph, the correction period hereunder with respect to such Work will be extended for an additional period of one year after such correction or removal and replacement has been satisfactorily completed.

F. Contractor's obligations under this paragraph are in addition to all other obligations and warranties. The provisions of this paragraph are not to be construed as a substitute for, or a waiver of, the provisions of any applicable statute of limitation orrepose.

ARTICLE 16—SUSPENSION OF WORK AND TERMINATION

16.01 Owner May Suspend Work

A. At any time and without cause, Owner may suspend the Work or any portion thereof for a period of not more than 90 consecutive days by written notice to Contractor and Engineer. Such notice will fix the date on which Work will be resumed. Contractor shall resume the Work on the date so fixed. Contractor shall be entitled to an adjustment in the Contract Price or an

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extension of the Contract Times directly attributable to any such suspension. Any Change Proposal seeking such adjustments must be submitted no later than 30 days after the date fixed for resumption of Work.

16.02 Owner May Terminate for Cause

A. The occurrence of any one or more of the following events will constitute a default by Contractor and justify termination for cause:

1. Contractor's failure to start the Work in accordance with the Notice to Proceed or Contractor's persistent failure to perform the Work in accordance with the Contract Documents (including, but not limited to, failure to supply sufficient skilled workers or suitable materials or equipment, or failure to adhere to the Progress Schedule);

2. Failure of Contractor to perform or otherwise to comply with a material term of the Contract Documents;

3. Contractor's disregard of Laws or Regulations of any public body having jurisdiction;or

4. Contractor's repeated disregard of the authority of Owner or Engineer.

B. If one or more of the events identified in Paragraph 16.02.A occurs, then after giving Contractor (and any surety) 10 days' written notice that Owner is considering a declaration that Contractor is in default and termination of the Contract, Owner may proceedto:

1. declare Contractor to be in default, and give Contractor (and any surety) written notice that the Contract is terminated; and

2. enforce the rights available to Owner under any applicable performance bond.

C. Subject to the terms and operation of any applicable performance bond, if Owner has terminated the Contract for cause, Owner may exclude Contractor from the Site, take possession of the Work, incorporate in the Work all materials and equipment stored at the Site or for which Owner has paid Contractor but which are stored elsewhere, and complete the Work as Owner may deem expedient.

D. Owner may not proceed with termination of the Contract under Paragraph 16.02.B if Contractor within 7 days of receipt of notice of intent to terminate begins to correct its failure to perform and proceeds diligently to cure such failure.

E. If Owner proceeds as provided in Paragraph 16.02.B, Contractor shall not be entitled to receive any further payment until the Work is completed. If the unpaid balance of the Contract Price exceeds the cost to complete the Work, including all related claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals) sustained by Owner, such excess will be paid to Contractor. If the cost to complete the Work including such related claims, costs, losses, and damages exceeds such unpaid balance, Contractor shall pay the difference to Owner. Such claims, costs, losses, and damages incurred by Owner will be reviewed by Engineer as to their reasonableness and, when so approved by Engineer, incorporated in a Change Order. When exercising any rights or remedies under this paragraph, Owner shall not be required to obtain the lowest price for the Work performed.

F. Where Contractor's services have been so terminated by Owner, the termination will not affect any rights or remedies of Owner against Contractor then existing or which may thereafter accrue, or any rights or remedies of Owner against Contractor or any surety under

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any payment bond or performance bond. Any retention or payment of money due Contractor by Owner will not release Contractor from liability.

G. If and to the extent that Contractor has provided a performance bond under the provisions of Paragraph 6.01.A, the provisions of that bond will govern over any inconsistent provisions of Paragraphs 16.02.B and 16.02.D.

16.03 Owner May Terminate for Convenience

A. Upon 7 days' written notice to Contractor and Engineer, Owner may, without cause and without prejudice to any other right or remedy of Owner, terminate the Contract. In such case, Contractor shall be paid for (without duplication of any items):

1. completed and acceptable Work executed in accordance with the Contract Documents prior to the effective date of termination, including fair and reasonable sums for overhead and profit on such Work;

2. expenses sustained prior to the effective date of termination in performing services and furnishing labor, materials, or equipment as required by the Contract Documents in connection with uncompleted Work, plus fair and reasonable sums for overhead and profit on such expenses; and

3. other reasonable expenses directly attributable to termination, including costs incurred to prepare a termination for convenience cost proposal.

B. Contractor shall not be paid for any loss of anticipated profits or revenue, post-termination overhead costs, or other economic loss arising out of or resulting from such termination.

16.04 Contractor May Stop Work or Terminate

A. If, through no act or fault of Contractor, (1) the Work is suspended for more than 90 consecutive days by Owner or under an order of court or other public authority, or (2) Engineer fails to act on any Application for Payment within 30 days after it is submitted, or (3) Owner fails for 30 days to pay Contractor any sum finally determined to be due, then Contractor may, upon 7 days' written notice to Owner and Engineer, and provided Owner or Engineer do not remedy such suspension or failure within that time, terminate the contract and recover from Owner payment on the same terms as provided in Paragraph 16.03.

B. In lieu of terminating the Contract and without prejudice to any other right or remedy, if Engineer has failed to act on an Application for Payment within 30 days after it is submitted, or Owner has failed for 30 days to pay Contractor any sum finally determined to be due, Contractor may, 7 days after written notice to Owner and Engineer, stop the Work until payment is made of all such amounts due Contractor, including interest thereon. The provisions of this paragraph are not intended to preclude Contractor from submitting a Change Proposal for an adjustment in Contract Price or Contract Times or otherwise for expenses or damage directly attributable to Contractor's stopping the Work as permitted by this paragraph.

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ARTICLE 17—FINAL RESOLUTION OF DISPUTES

17.01 Methods and Procedures

A. *Disputes Subject to Final Resolution*: The following disputed matters are subject to final resolution under the provisions of this article:

1. A timely appeal of an approval in part and denial in part of a Claim, or of a denial in full, pursuant to Article 12; and

2. Disputes between Owner and Contractor concerning the Work, or obligations under the Contract Documents, that arise after final payment has been made.

B. *Final Resolution of Disputes*: For any dispute subject to resolution under this article, Owner or Contractor may:

1. elect in writing to invoke the dispute resolution process provided for in the Supplementary Conditions;

2. agree with the other party to submit the dispute to another dispute resolution process; or

3. if no dispute resolution process is provided for in the Supplementary Conditions or mutually agreed to, give written notice to the other party of the intent to submit the dispute to a court of competent jurisdiction. Any litigation action shall be filed in a state Court in Nassau County, Florida, with the exception of any federal litigation action which shall be filed with a Court for the Middle District of Florida. Any mediation shall be held in Nassau County, Florida.

ARTICLE 18—MISCELLANEOUS

18.01 Giving Notice

A. Whenever any provision of the Contract requires the giving of written notice to Owner, Engineer, or Contractor, it will be deemed to have been validly given only if delivered:

1. in person, by a commercial courier service or otherwise, to the recipient's place of business;

2. by registered or certified mail, postage prepaid, to the recipient's place of business;or

3. by e-mail to the recipient, with the words "Formal Notice" or similar in the e-mail's subject line.

18.02 Computation of Times

A. When any period of time is referred to in the Contract by days, it will be computed to exclude the first and include the last day of such period. If the last day of any such period falls on a Saturday or Sunday or on a day made a legal holiday by the law of the applicable jurisdiction, such day will be omitted from the computation.

18.03 Cumulative Remedies

A. The duties and obligations imposed by these General Conditions and the rights and remedies available hereunder to the parties hereto are in addition to, and are not to be construed in any way as a limitation of, any rights and remedies available to any or all of them which are

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otherwise imposed or available by Laws or Regulations, by special warranty or guarantee, or by other provisions of the Contract. The provisions of this paragraph will be as effective as if repeated specifically in the Contract Documents in connection with each particular duty, obligation, right, and remedy to which they apply.

18.04 Limitation of Damages

A. With respect to any and all Change Proposals, Claims, disputes subject to final resolution, and other matters at issue, neither Owner nor Engineer, nor any of their officers, directors, members, partners, employees, agents, consultants, or subcontractors, shall be liable to Contractor for any claims, costs, losses, or damages sustained by Contractor on or in connection with any other project or anticipated project.

18.05 No Waiver

A. A party's non-enforcement of any provision will not constitute a waiver of that provision, nor will it affect the enforceability of that provision or of the remainder of this Contract.

18.06 Survival of Obligations

A. All representations, indemnifications, warranties, and guarantees made in, required by, or given in accordance with the Contract, as well as all continuing obligations indicated in the Contract, will survive final payment, completion, and acceptance of the Work or termination of the Contract or of the services of Contractor.

18.07 Controlling Law

A. This Contract is to be governed by the law of the state in which the Project islocated.

18.08 Assignment of Contract

A. Unless expressly agreed to elsewhere in the Contract, no assignment by a party to this Contract of any rights under or interests in the Contract will be binding on the other party without the written consent of the party sought to be bound; and, specifically but without limitation, money that may become due and money that is due may not be assigned without such consent (except to the extent that the effect of this restriction may be limited by law), and unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under the Contract.

18.09 Successors and Assigns

A. Owner and Contractor each binds itself, its successors, assigns, and legal representatives to the other party hereto, its successors, assigns, and legal representatives in respect to all covenants, agreements, and obligations contained in the Contract Documents.

18.10 Headings

A. Article and paragraph headings are inserted for convenience only and do not constitute parts of these General Conditions.

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SECTION 00 73 15

SUPPLEMENTARY CONDITIONS

These Supplementary Conditions amend or supplement the Standard General Conditions of the Construction Contract (EJCDC C-700, 2007 Edition). All provisions which are not so amended or supplemented remain in full force and effect.

The terms used in these Supplementary Conditions which are defined in the Standard General Conditions of the Construction Contract have the meanings assigned to them in the General Conditions.

Local Agency Program Agreement 433248-1-58-01
Section 14.f
Neither the Recipient nor any of Its contractors or their subcontractors shall enter into any contract, subcontract or arrangement in connection. with the Project or any property Included or planned to be included in the Project in which any member, officer or employee of the Recipient or the locality during tenure or for 2 years thereafter has any interest, direct or indirect. If any such present or former member, officer or employee Involuntarily acquires or had acquired prior to the beginning of tenure any such Interest, and if such interest Is immediately disclosed to the Recipient, the Recipient, with prior approval of the Department, may waive the prohibition contained In this paragraph provided that any such present member, officer or employee shall not participate in any action by the Recipient or the locality relating to such contract, subcontract or arrangement. The Recipient shall insert in all contracts entered into in connection with the Project or any property included or planned to be included in any Project, and shall require its contractors to insert In each of their subcontracts, the following provision:

"No member, officer or employee of the Recipient or of the locality during his tenure or for 2 years thereafter shall have any interest, direct or indirect, in this contract or the proceeds thereof."

The provisions of this paragraph shall not be applicable to any agreement between the Recipient and its fiscal depositories or to any agreement for utility services the rates for which are fixed or controlled by a governmental agency.

Local Agency Program Agreement 433248-1-58-01
Section 15.c
Recipient agrees to include the following indemnification in all contracts with contractors, subcontractors, consultants, or subconsultants (each referred to as "Entity'' for the purposes of the below indemnification) who perform work in connection with this Agreement:

‘‘To the extent provided by law, [ENTITY] shall indemnify, defend, and hold harmless the

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[RECIPIENT] and the State of Florida, Department of Transportation, Including the Department's officers, agents, and employees, against any actions, claims, or damages arising out of, relating to, or resulting from negligent or wrongful act(s) of [ENTITY], or any of its officers, agents, or employees, acting within the scope of their office or employment, in connection with the rights granted to or exercised by [ENTITY] hereunder, to the extent and within the limitations of Section 768.28, Florida Statutes.

The foregoing indemnification shall not constitute a waiver of sovereign Immunity beyond the limits set forth in Florida Statutes, Section 768.28. Nor shall the same be construed to constitute agreement by [ENTITY] to indemnify [RECIPIENT] for the negligent acts or omissions of [RECIPIENT], its officers, agents, or employees, or third parties. Nor shall the same be construed to constitute agreement by [ENTITY] to indemnify the Department for the negligent acts or omissions of the Department, its officers, agents, or employees, or third parties. This Indemnification shall survive the termination of this Agreement."

Local Agency Program Agreement 433248-1-58-01
Section 17.o
The Parties agree to comply with s.20.055(5), Florida Statutes, and to Incorporate in all subcontracts the obligation to comply with s.20.055(5), Florida Statutes.

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SECTION 00 73 15

SUPPLEMENTARY CONDITIONS

These Supplementary Conditions amend or supplement the Standard General Conditions of the Construction Contract (EJCDC C-700, 2007 Edition). All provisions which are not so amended or supplemented remain in full force and effect.

The terms used in these Supplementary Conditions which are defined in the Standard General Conditions of the Construction Contract have the meanings assigned to them in the General Conditions.

ARTICLE 1 DEFINITIONS AND TERMINOLOGY

SC-1.01.21 Amend the Defined Terms for *General Requirements* to The General Requirements pertain to all Sections of the specifications.

Add the following new paragraph immediately after paragraph 1.01.51:

SC-1 .01.52 SURETY – The person, firm, or corporation which is bound by the contract bonds with and for Contractor (Principal); and which is held and firmly bound unto Owner for the conditions of obligations set forth in said bonds.

ARTICLE 2 PRELIMINARY MATTERS

SC-2.02.A Amend the first sentence of paragraph 2.02.A of the General Conditions by changing “up to ten” to “five”.

SC-2.05.A Amend the first sentence of paragraph 2.05.A of the General Conditions by changing “Within 10 days after the Effective Date of the Agreement” to “At the Preconstruction Conference”.

Add the following new paragraph immediately after paragraph 2.05.A.3:

SC-2.05.B Before any Work at the Site is started, Bidder shall deliver to the Owner, certificates of insurance that Bidder is required to purchase and maintain in accordance with Article 5.

Add the following new paragraph immediately after paragraph 2.06.B:

SC-2.06.C Owner may issue Notice to Proceed at the Preconstruction Conference. Bidder shall begin the Work within twenty-four (24) hours of the date given

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in the Notice to Proceed. If the Bidder does not start the Work within fourteen (14) calendar days after this date, Owner may, at his discretion, terminate Bidder in accordance with paragraph 15.02.

Delete paragraph 2.07.A in its entirety and insert the following in its place:

SC-2.07.A All schedules as set forth in Article 2 shall be submitted and accepted by the Owner and Engineer within 30 days of NTP. Should any schedule not be accepted within 30 days of the NTP, it will be considered a breach of contract and reason for termination of the contract for cause in accordance with the General Conditions, Section 15.02.

ARTICLE 4 AVAILABILITY OF LANDS; SUBSURFACE AND PHYSICAL CONDITIONS; HAZARDOUS ENVIRIONMENTAL CONDITIONS; REFERENCE POINTS

Add the following to the end of paragraph 4.01.C:

SC-4.01.C Bidder shall obtain said land rights at his own expense and without liability to the Owner. Bidder shall not enter upon private property without first obtaining written permission from the rightful property owner.

Add the following new paragraph immediately after paragraph 4.02.B:

SC-4.02.C In the preparation of Drawings and Specifications, Engineer or Engineer's Consultants relied upon the following report(s) of explorations and tests of subsurface conditions at the Site: See Appendix A

Amend the last sentence in paragraph 4.03.C.3 to read:

SC-4.03.C.3 However, Owner, Engineer and Engineer's Consultants shall not be liable to Bidder for any claims, costs, losses, or damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or other dispute resolution costs) sustained by Bidder on or in connection with any other project or anticipated project.

ARTICLE 5 BONDS AND INSURANCE

Delete paragraph 5.01.B in its entirety and insert the following in its place:

SC-5.01.B All Bonds shall be in the form prescribed by the Contract Documents or other form approved by Owner. All else notwithstanding, the terms of all Bonds shall be substantially in the form prescribed by Chapter 255, Florida Statutes. All

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Bonds shall be executed by Bidder and a corporate bonding company licensed to transact such business in the State of Florida and named on the current list of "Surety Companies Acceptable on Federal Bonds" as published in the Treasury Department Circular Number 570. Bidder will cause the Bonds to be recorded with the Clerk of the Circuit Court in the county in which the Work is to be performed. Failure to execute bonds in the form prescribed may constitute non-responsiveness on the part of the Bidder. The expense for all Bonds shall be the Bidder's responsibility.

Add the following to the end of paragraph 5.02.A:

SC-5.02.A Certificates of insurance shall be issued by a company with a Best's rating of at least B+ authorized to do business in the State of Florida. Owner must approve non-rated insurers. If used, Owner shall be shown as Certificate Holder, Engineer as Additional Insured and provide a 30-day cancellation notice.

Delete paragraph 5.03.B in its entirety and insert the following in its place:

SC-5.03.B Insurance policies written on a "Claims Made" form is not acceptable without Owner's approval.

Add the following new paragraphs immediately after paragraph 5.03.E:

SC-5.03.F Umbrella Liability insurance is preferred, but an Excess Liability equivalent is acceptable. Whichever type of coverage is provided, it shall not be more restrictive than the underlying insurance policy coverages, including, but not limited to the coverage Trigger, defense, notice of occurrence/accident/circumstances, notice of claim and extended reporting period.

SC-5.03.G No work shall commence under this contract until the required Certificate(s) have been provided. Work shall not continue after expiration (or cancellation) until new Certificate(s) have been provided. Non-continuance of work after expiration (or cancellation) of Certificate(s) will not constitute a delay beyond Bidder's control as defined in paragraph 12.03.

SC-5.03.H Bidder shall arrange for its insurers' policies to include, or be endorsed to include, a severability or interest/cross liability provision, so that Owner will be treated as if a separate policy were in existence, but without increasing the policy limits.

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SC-5.03.I Bidder's deductibles/self-insured retentions shall be disclosed to Owner and may be disapproved by the latter. They shall be reduced or eliminated at the option of Owner. Bidder is responsible for the amount of any deductible or self-insured retention.

SC-5.03.J These insurance requirements shall not relieve or limit the liability of Bidder. Owner does not in any way represent that these types or amounts of insurance are sufficient or adequate to protect Bidder's interests or liabilities, but are merely minimums.

SC-5.03.K Insurance required of Bidder or any other insurance of Bidder shall be considered primary, and insurance or self-insurance of Owner shall be considered excess, as may be applicable to claims that arise out of this contract.

SC-5.03.L Receipt of Certificates or other documentation of insurance or policies or copies of policies by Owner, or by any of its representatives, which indicate less coverage than required does not constitute a waiver of the Bidder's obligation to fulfill the insurance requirements herein.

SC-5.03. M The Bidder shall either (a) require each subcontractor to produce and maintain the same coverage as required of the Bidder, or (b) insure the activities of subcontractors in his own policy.

SC-5.03.N These insurance requirements are minimums and may not be adequate to cover Bidder exposures.

Add the following new paragraphs immediately after paragraph 5.04.B:

SC-5.04.C The limits of liability for the insurance required by paragraph 5.04 of the General Conditions shall provide coverage for not less than the following amounts or greater where required by Laws and Regulations:

1. Workers compensation and related coverages under paragraphs 5.04.A.1 and A.2 of the General Conditions:

    a. State Statutory

    b. Applicable Federal (e.g. Longshoreman's) Statutory

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c. Employer's Liability
Each Employee
$1,000,000
Each Accident
$1,000,000
Disease Policy Limit
$1,000,000
Disease Each Employee
$1,000,000

2. Bidder's General Liability under paragraphs 5.04.A.3 through A.6 of the General Conditions, which shall also include completed operations and product liability coverages and eliminate the exclusion with respect to property under the care, custody and control of the Bidder:

a. General Aggregate
(Except Products - Completed Operations)
$1,000,000

b. Products - Completed Operations Aggregate
$1,000.000

c. Each Occurrence
(Bodily Injury and Property Damage)
$1,000,000

d. Property Damage liability insurance may be required to include Explosion, Collapse and Underground coverages where applicable

e. Excess or Umbrella Liability
General Aggregate
$2,000,000
Each Occurrence
$1,000,000

3. Automobile Liability under paragraph 5.04.A.6 of the General Conditions:
Combined Single Limit
$1,000,000

Delete paragraphs 5.06 through 5.10 in their entirety except for paragraph 5.06.D and insert the following in place of 5.09.A:

SC-5.09.A If Owner has any objection to the coverage afforded by or other provisions of Bonds or insurance required to be purchased and maintained by Bidder in accordance with Article 5 on the basis of non-conformance with the Contract Documents, Owner shall so notify Bidder in writing within ten days after receipt of the certificates (or other evidence requested) required by paragraph

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2.05.C. Bidder shall provide to Owner such additional information in respect of insurance provided as Owner may reasonably request.

ARTICLE 6 BIDDER'S RESPONSIBILITIES

Add the following to the end of paragraph 6.01.A:

SC-6.01.A Owner reserves the right to reject any means, methods, techniques, sequences or procedures proposed by Bidder which:

1. will constitute or create a hazard to the Work or to the persons or damage to property or existing utilities; or

2. will not produce finished work in accordance with the terms of the contract Documents.

Owner's failure to exercise his right to reject such means, methods, techniques, sequences or procedures shall not relieve the Bidder of his obligation to accomplish the result intended in the Contract Documents nor shall the exercise of such right create a cause of action for damages.

Add the following new paragraph immediately after paragraph 6.02.B:

SC-6.02.C Engineer shall record time and costs required by Engineer and Engineer's Consultants to provide inspection services due to Bidder's working beyond regular working hours as defined in the General Requirements. Owner's reimbursement for the charges shall be a deduction from Bidder's Partial Payment(s) in accordance with Section 01 11 00 Part 2.02.

Add the following new paragraphs immediately after paragraph 6.05.A.2.d:

SC-6.05.A.2.e Each action mentioned above required for review of proposed substitute items of material or equipment shall be followed in the order given. Failure to do so shall be cause for rejection of the proposed substitution.

SC-6.05.A.2.f Bidder shall reimburse Owner for the charges of Engineer or Engineer's Consultants for evaluation of substitutions. Owner's reimbursement for the charges shall be a deduction from the Bidder's Partial Payment(s).

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

Add the following to the end of paragraph 6.06.A:

SC -6.06.A Bidder shall not subcontract part(s) or the work, the aggregate cost of which is greater than 50 percent of the contract price, without prior written approval by Owner. Bidder shall cause appropriate provisions to be inserted in all subcontracts relative to the Work that bind Subcontractors to Bidder by the terms of the Contract Documents insofar as applicable to the work of Subcontractors and to give Bidder the same power as regards terminating any subcontract that Owner may exercise over Bidder under any provision of the Contract Documents. Nothing contained in the subcontract shall create any contractual relationship between Subcontractor and Owner. Each Subcontractor shall discharge all duties and responsibilities of Bidder to Owner covered by his subcontract.

Add the following to the end of paragraph 6.06.B:

SC-6.06.B Subcontractors and Suppliers shall be identified on the form provided in the Bidding Requirements.

Add the following to the end of paragraph 6.08.A:

SC-6.08.A Permits, licenses, and easements for permanent structures or permanent changes in existing facilities shall be secured and paid for by Owner, unless otherwise specified.

Add the following to the end of paragraph 6.09.A:

SC-6.09.A Bidder shall also cause all Subcontractors to comply with all federal, state, county, and municipal laws, ordinances, rules, and regulations bearing on the conduct of the Work.

Add the following to the end of paragraph 6.09.B:

SC-6.09.B If Bidder observes that the Contract Documents are at variance with said laws, ordinances, rates, or regulations, Bidder shall promptly notify Engineer of Record and the County in writing, and any necessary changes shall be adjusted as provided in the Contract Documents. Bidder shall not proceed with the Work until so instructed by Owner.

Add the following to the end of paragraph 6.12.A:

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

SC-6.12.A Annotations of record documents shall be legible, precise, and complete as determined by Engineer of Record and the County.

Add the following new paragraph after paragraph 6.13.D:

SC-6.13.G Bidder shall be responsible at all times for precautions to achieve the protection of all persons, including employees and property. Bidder shall make special effort to detect hazardous conditions and shall take prompt action where necessary to avoid accident, injury, or property damage. OSHA and all other applicable safety laws and ordinances shall be followed as well as American National Standards Institute Safety Standards. All accidents, injuries, claims, or potential claims shall be reported promptly to Owner.

Add the following new paragraph immediately after paragraph 6.17.E.1:

SC-6.17.E.2 Bidder shall reimburse Owner for the charges of the County and the County's Consultants for costs generated as a result of more than two submittals of any one Shop Drawing or Sample being required for evaluation due to rejection for noncompliance of the original submittal or lack of information required by the Contract Documents. Owner's reimbursement for the charges shall be a deduction from Bidder's Partial Payment(s).

SC-6.20.A Amend the first paragraph of 6.20.A of the General Conditions by changing "(including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court: or arbitration or other dispute resolution costs)" to "(including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or other dispute resolution costs)".

Add the following new paragraph immediately after paragraph 6.20.C:

SC-6.20.D Neither Bidder nor Owner shall sell, transfer, assign, or otherwise dispose of the contract or any portion thereof, or any right, title, or interest therein, or any obligations thereunder, without written consent of the other party.

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ARTICLE 8 OWNER'S RESPONSIBILITIES

SC-8.02 Amend paragraph 8.02 of the General Conditions by striking out the following words: “to whom Bidder makes no reasonable objection.”

ARTICLE 9 ENGINEER'S STATUS DURING CONSTRUCTION

Add the following new paragraph immediately after paragraph 9.05.A:

SC-9.05.B Bidder shall reimburse the Owner for the charges of Engineer and Engineer's Consultants for any additional field observations, engineering analysis, correspondence, meetings, or other work due to non-complying or defective construction, materials, or equipment performed or furnished by the Bidder, Subcontractors, or Suppliers. Owner's reimbursement for the charges shall be a deduction from the Bidder's Partial Payment(s).

ARTICLE 10 CHANGES IN THE WORK; CLAIMS

SC-10.05.B Amend the first sentence of paragraph 10.05.B of the General Conditions by changing “(but in no event later than 30 days)” to “(but in no event later than 15 days)”.

ARTICLE 11 COST OF THE WORK; CASH ALLOWANCES; UNIT PRICE WORK

Add the following to the end of paragraph 11.01.A.5.c:

SC-11.01.A.5.c In no case shall rates exceed those published by the current edition of Data Quest Incorporated titled, Rental Rate Blue Book for Construction Equipment, and other procedures established by Florida Department of Transportation.

SC-11.01.A.5.f Amend the first sentence of paragraph 11.01.A.5.f by striking out the following words: “(except losses and damages within the deductible amounts of property insurance established in accordance with paragraph 5.06.D)”.

Add the following new paragraphs immediately after paragraph 11.01.A.5.i:

SC-11.01.A.5.j The cost of specific consideration for the indemnifications set forth in paragraph 6.20.

SC-11.01.A.5.k The cost of compliance with current local, state and federal safety regulations.

Add the following new paragraphs immediately after paragraph 11.03.D:

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

SC-11.03.E If Owner objects to Bidder's quoted adjustment in Unit Price Work set forth in paragraph 11.03.D, Owner may assign such work to its own forces or another contractor.

SC-11.03.F Owner reserves the right to delete any Unit Price Work without financial penalty incurred from Bidder.

ARTICLE 12 CHANGE OF CONTRACT PRICE; CHANGE OF CONTRACT TIMES

Add the following new paragraph immediately after paragraph 12.02.B:

SC-12.02.C On the 21st of each month, or the next following business day, the Bidder shall submit to the Owner and Engineer a request for weather days. Failure to submit the request forfeits the right to claim weather days for that period and any previous period. The Owner will grant time extensions, on a day for day basis, for delays caused by the effects of rains or other inclement weather conditions or related adverse soil conditions that prevent the Bidder from productively performing controlling items of work resulting in:

(1) The Bidder being unable to work at least 50% of the normal work day on pre-determined controlling work items due to adverse weather conditions.

No additional compensation will be made for delays caused by the effects of inclement weather.

ARTICLE 13 TESTS AND INSPECTIONS; CORRECTION, REMOVAL OR ACCEPTANCE OF DEFECTIVE WORK

Add the following to the end of paragraph 13.03.A:

SC-13.03.A Bidder shall reimburse Owner for the charges of Engineer and Engineer's Consultants for all costs due to work not being ready for tests and/or inspections when the Bidder has notified Engineer that work is ready for tests and/or inspections. Bidder shall reimburse Owner for all failed tests and subsequent retests. Reimbursement for the charges shall be a deduction from the Bidder's Partial Payment(s).

Delete paragraph 13.03.B of the General Conditions and add the following in its place:

SC-13.03.B The Bidder shall obtain and employ an independent testing laboratory to provide the services specified herein and shall include all costs for these services

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

in the contract price. The Bidder shall submit for approval by the Owner and Engineer, the independent testing laboratory, including qualifications.

Copies of all testing agency invoices submitted to the Bidder for payment shall be forwarded with the Bidder's request for partial payment. Invoices shall be submitted routinely throughout the project and shall be pertinent to the partial payment period under consideration. Testing agency invoices in excess of sixty (60) days old shall not be considered for payment, Invoices shall clearly indicate type and amount of test performed, unit and total cost, and shall indicate if the invoiced testing cost is a result of retests required due to the Bidder's failure to achieve specified requirements. The cost of retesting due to test failure will be borne by the Bidder. Payment to the Bidder for testing shall not be made without the required itemized invoicing.

SC-13.08.A Amend the first sentence of 13.08.A by changing "(including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs)" to "(including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or other dispute resolution costs)".

SC-13.09.C Amend the first sentence of 13.09.C by changing "(including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs)" to "(including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or other dispute resolution costs)".

ARTICLE 14 PAYMENTS TO BIDDER AND COMPLETION

Delete paragraph 14.02.A.2 in its entirety and insert the following in its place:

SC-14.02.A.2 Beginning with the second Application for Payment, each Application shall include an affidavit of Bidder certifying that Bidder has disbursed to all subcontractors and suppliers having an interest in the contract their pro rata shares of the payment out of previous progress payments received by Bidder for all work completed and materials furnished in the previous work period, less a retainage withheld by Bidder pursuant to an agreement with a subcontractor. Within 30 days of receipt for the final progress payment or any other payments received thereafter except the final payment, Bidder shall pay all subcontractors and suppliers having an interest in the contract their pro rata shares of the payment for all work completed and materials furnished.

Add the following words to the end of paragraph 14.02.B.1:

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

"or direct Engineer to present the Application to Owner with Engineer's recommendation of partial payment."

SC-14.02.B.2 After the word "schedules", add the words "and the Contract Documents".

Add the following new paragraph immediately after paragraph 14.02.B.2.c:

SC-14.02.B.2.d Bidder's other obligations under the Contract Documents have been fulfilled.

Delete paragraph 14.05.A.4 in its entirety

Amend paragraph 14.09.A.1 to read:

SC-14.09.A.1 A waiver of all Claims by Owner against Bidder, except Claims arising from unsettled Liens, from defective Work appearing after final inspection pursuant to paragraph 14.06, from failure to comply with the Contract Documents or the terms of any special guarantees specified therein whenever said failure occurs or from Bidder's continuing obligations under the Bidder Documents; and

Add the following new paragraph immediately after paragraph 14.09.A.2:

SC-14.09.A.3 The acceptance of final payment by Bidder designated and identified by Engineer as final payment shall be and shall operate as a release to Owner of all claims and all liability to Bidder other than claims in stated amounts as may be specifically excepted by Bidder for all things done or finished in connection with the Work and for every act of Owner and others relating to or arising out of the Work. Any payment, however, final or otherwise, shall not release Bidder or Bidder's Surety(ies) from any obligations under the Contract Documents or Bonds.

ARTICLE 15 SUSPENSION OF WORK AND TERMINATION

SC-15.02.A. 1 After the word "Bidder's", add the words "start the work in accordance with the Notice to Proceed or Bidder's".

ARTICLE 16 DISPUTE RESOLUTION

Add the following new paragraph immediately after paragraph 16.01.C.3

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

SC-16.01.D Venue for any mediation shall be in Nassau County, Florida. Venue for any litigation shall be in state court in Nassau County, Florida

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

DIVISION 01

GENERAL REQUIREMENTS

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SECTION 01 11 00

SUMMARY OF WORK

PART 1 THE WORK AND ITS PERFORMANCE

1.01 CHARACTER OF THE WORK

Unless otherwise expressly provided in the Contract Documents, the Work must be performed in accordance with best modern practice, with materials and workmanship of the highest quality to the satisfaction of the County.

1.02 DESCRIPTION OF THE PROJECT

A. The project title is: **Chester Road Intersection Improvements**
Bid Number NC23-064
Nassau County, Florida

B. This project consists of milling and resurfacing, reconstruction and widening along Chester Road from David Hallman Parkway to approximately 700' north of Pages Dairy Road in Nassau County. The improvements on Chester Road from David Hallman Parkway to Courtney Isles Way will consist of milling and resurfacing and widening for bike keyholes. Chester Road from Courtney Isles Way to approximately 700' north of Pages Dairy will have reconstruction and widening from a two-lane rural road to a four-lane urban roadway with bike lanes and sidewalk. Improvements on Pages Dairy Road extend approximately 1400' west of Chester Road and include resurfacing and providing 5' paved shoulders. Signals will be added at the Chester Road and Pages Dairy Road intersection. The existing signals will be replaced at the Chester Road and David Hallman Parkway intersection. The work to be performed includes but is not limited to:

- Pavement Construction
- Earthwork
- Milling and resurfacing of existing asphalt pavement
- Constructing storm sewer pipes
- Pond construction
- Curb and gutter construction
- Clearing & Grubbing
- Placing performance turf and Sod
- Traffic maintenance and protection
- Installing Pavement Markings and signage
- Installing mast arms and signals

All work shall be in accordance with the construction drawings, specifications, and contract

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documents. **BIDDERS MUST BE FDOT PRE-QUALIFIED FOR ALL CATEGORIES OF WORK REQUIRED FOR THIS PROJECT.**

C. The specification divisions and drawings are an integrated part of the contract documents and, as such, will not stand alone if used independently as individual sections, divisions, or drawings sheets. The drawings and specifications establish minimum standards of quality for this project. They do not purport to cover all details entering into the design and construction of materials and equipment.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

PART 2 WORKING HOURS

2.01 GENERAL

Work under this contract shall not be performed on County, State and/or national holidays or during such events as the Fernandina Beach Shrimp Festival, Concours D'Elegance, Nassau County School System FSA (as identified at the pre-bid conference), TPC Tournament, Florida-Georgia football game, Jaguars home football games, Gator Bowl, Greater Jacksonville Agricultural Fair, Greater Jacksonville Kingfish Tournament, and Isle of Eight Flags Shrimp Festival, except in time of emergency, and then only under written permission from the County who shall be the sole judge as to the urgency of that situation. Available workdays to perform work will not include night time work, weekend work, or work before 9:00 am or after 3:30 pm (27.5 hours per work week) without prior approval from the County Engineer.

Should the Contractor deem it necessary to work on Sundays, holidays, or beyond daylight hours in order to comply with his construction schedule or because of an emergency, the Contractor shall request permission of the County. If, in the opinion of the County, the need is bona fide, the contractor will authorize the Contractor to work such hours as may be necessary. If the County grants the contractor the right to work beyond the normal working hours, the charges shall be those as described in Section 2.03 or as invoiced to Nassau County by CEI and Testing or other professionals required to monitor construction activities as determined by the Owner. A subsequent reduction in payment to the Contractor will be applied by a corresponding Change Order.

2.02 LANE CLOSURES

Lane closures will be allowed subject to Nassau County's Road Closure Policy (Appendix B).

2.03 REIMBURSEMENT FEES

Should the County approve work time beyond regular hours, the following hourly rates shall be applied as the County's reimbursement of Engineer of Record's fee or Construction Engineering Inspections (CEI) fees to be paid by Contractor for expenses defined in Supplemental Conditions SC-6.02.C, SC-6.05.A.2.f, SC-6.17.E., SC-9.05.B and SC-13.03.A.

A. Engineer	$217.83
B. Project Manager	$185.91
C. Construction Administrator	$100.00
D. Inspector	$80.00
E. Administrative Assistant	$65.00
F. Consultant Construction Engineering Inspection (CEI)	$125.00

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

PART 3 ABBREVIATIONS

3.01 ORDINANCES, REGULATIONS, STANDARDS, AND CODES

Reference in the specifications to known standards, codes, specifications, etc., promulgated by professional or technical associations, institutions, and societies, is intended to mean the latest edition of each such standard adopted and published as of the date of the Invitation to Bid on this project except where otherwise specifically indicated. Each such standard referred to shall be considered a part of the specifications to the same extent as if reproduced herein in full. The following is a list of applicable documents that apply to this contract.

American Association of State Highway and Transportation Officials (AASHTO) formerly (AASHO)

American Concrete lnstitute (ACI)

American lnstitute of Steel Construction (AISC)

American Iron and Steel lnstitute (AISI)

American National Standards lnstitute (ANSI)

American Standards Association (ASA)

American Society of Mechanical Engineers (ASME)

American Society of Testing and Materials (ASTM)

American Water Works Association (AWWA)

American Welding Society (AWS)

Anti-Friction Bearing Manufacturer's Association (AFBMA)

Building Officials and Code Administrators International, Inc. (BOCA)

Code of Laws and Ordinances of Nassau County, Florida

Construction Specifications lnstitute (CSI)

Federal Specifications (FS)

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

Florida Department of Transportation (FDOT) Standard Specifications for Road and Bridge Construction, latest Edition (Standard Specifications)

Florida Department of Traffic Standard Plans FY 2019-20 Edition (FDOT Index)

Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD)

National Bureau of Standards (NBS)

National Electrical Manufacturer's Association (NEMA)

National Fire Protection Association (NFPA)

Portland Cement Association (PCA)

Occupational Safety and Health Act (Public Law 91-596), U.S. Department of Labor (OSHA)

Steel Structures Painting Council (SSPC)

Southern Standards Building Code (SSBC)

Underwriters' Laboratories, Inc. (UL)

United States of America Standards Institute (USASI)

Regulations of Florida Industrial Commission Regarding Safety

All local, state, county, or municipal building codes requirements of the Owner's Insurance

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

SECTION 01 22 50

MEASUREMENT AND PAYMENT

PART 1 GENERAL

Work under this Contract shall be paid as designated below under the appropriate items associated with the Bid Schedule. Payment shall be in accordance with Lump Sum or Unit Price bid by the Contractor in his proposal.

When Lump Sum prices are contained in the Bid Schedule, the Contractor shall provide a detailed schedule of values for Lump Sum cost acceptable to the Engineer of Record and the County, which will be used for estimating partial payment requests.

Contractual costs for work not specifically mentioned under a payment item and which are incidental to the overall conduct of the work shall be included in the individual items at the Contractor's option. No additional charges shall be made to the County for items not specifically mentioned under individual payment items. Examples of these types of costs include, but are not limited to, the following: bonds, insurance, permits, licenses, traffic control, dust control, clean-up, temporary access, temporary facilities, soil erosion control, temporary drainage, temporary offices, restoration of disturbed areas, temporary utilities, test pits locating existing utilities, temporary water and sewer, surveying, layout, and other items similar to above.

Measurement and payment for items in Bid Parts A and B shall be in accordance with the Florida Department of Transportation Standard Specifications for Road and Bridge Construction, January 2023 Edition with the exception that reduction in the FDOT acceptance criteria based on payment factors will not be allowed.

Measurement and payment for items in Bid Parts C, D, E, and F shall be in accordance with JEA Water & Wastewater Standards Manual 2023 Edition Section 801 – Measurement and Payment.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

SECTION 01 31 19

PROJECT MEETINGS

1.01 PRECONSTRUCTION CONFERENCE

A. A preconstruction conference will be scheduled after award of contract and prior to beginning work. This meeting shall be attended by Engineer of Record, the County, and an authorized representative of Contractor.

B. Meeting will consider matters of contract administration and initial construction operations.

C. Contractor shall submit proposed construction schedule prior to or at preconstruction conference; see Section 01 33 00.

1.02 PROGRESS MEETINGS

A. Periodic progress meetings will be held at a time and place mutually agreed upon at preconstruction conference. A responsible representative of Contractor who can bind Contractor/subcontractor to decisions shall attend. A responsible representative of other subcontractors working on site shall also attend.

B. Meetings will be held to coordinate and expedite progress of work and shall be conducted by Contractor. Contractor and each subcontractor on site shall submit a written report at each meeting indicating:

1. Work progress since last meeting.
2. Upcoming work sequences and schedules.
3. Requests for information.

C. Contractor shall record meeting minutes and shall distribute a written summary of items discussed to all parties involved in the project within 48 hours of each meeting. The written summary shall document all issues discussed and decisions reached at progress meeting.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

SECTION 01 33 00

SUBMITTAL PROCEDURES

1.01 SUMMARY

A. Submit items to Engineer of Record for review as listed below and as required by the other Contract Documents. Refer to individual specification sections, General Conditions, Supplementary Conditions, and sections of Division 01 - General Requirements for submittal requirements.

1.02 CONSTRUCTION SCHEDULE

A. Prior to or at preconstruction conference, submit two copies of a proposed schedule of operations. Coordinate activities of the various trades for orderly completion of the work. Coordinate activities with those of the County to schedule a minimum of temporary disruptions to continuing operations. Allow ample time for the County to alter operations as required.

B. After acceptance of construction schedule, distribute copies to subcontractors and other parties required to comply with scheduled dates.

C. When revisions to schedule are made, notify all parties of changes in writing.

1.03 SCHEDULE OF SUBMITTALS

A. Within 10 days of acceptance of construction schedule, submit two copies of a schedule of submittals. Schedule shall list anticipated date for each required submittal and shall allow A/E reasonable time for reviews. Submit all submittals requiring Engineer of Record review within 30 days of acceptance of construction schedule.

B. After acceptance of schedule of submittals, distribute copies to subcontractors and other parties required to comply with submittal dates.

1.04 SHOP DRAWINGS

A. Required shop drawings are designated under the various specification sections. Submit shop drawings for review prior to fabrication, delivery, or installation. Submit a minimum of five copies; two copies will be retained and the remainder returned to Contractor who shall keep one copy at project site.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

B. Fabrication and erection drawings may consist of a reproducible and two sets of prints; the reproducible copy will be returned to Contractor.

C. Each brochure of shop drawings shall contain an index of contents and shall consist of layout details, schedules, setting instructions, manufacturer's literature, and other data specifically prepared for the work. Shop drawings shall be identified with project name, numbered consecutively, and bear the stamp of approval of Contractor as evidence of accuracy, compatibility, and conformance with contract requirements. Drawings not so stamped will be returned without being examined.

D. Specific written notice shall be given of each variation that shop drawings may have from requirements of the Contract Documents.

E. Partial submittals will not be considered; each portion of work shall be complete in one submittal.

F. Shop drawings shall not be used in the work unless they have been reviewed and bear the stamp and signature of Engineer of Record. Shop drawings will only be reviewed for general conformance with the design concept of the project and general compliance with the information given in the Contract Documents. Contractor shall be responsible for confirming and correlating all quantities and dimensions, selecting fabrication processes and techniques of construction, coordinating his or her work with that of all other trades, and performing all work in a safe and satisfactory manner. Corrections or comments made on shop drawings shall not relieve Contractor from compliance with requirements of Drawings and Specifications and shall not be considered an order for extra work.

G. If information on previously reviewed shop drawings is altered, submit changes for review.

1.05 PRODUCT DATA

A. Required product data submittals are designated under the various specification sections. Submit product data for review in accordance with procedures for shop drawings.

B. Product data shall consist of manufacturer's literature, illustrations, and brochures of catalog cuts; instructions for handling, storage, and installation; and specifications and design data. Where multiple options are indicated, identify specific options as required for this project.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

C. Products subject to product data review shall not be used in the work until they have been reviewed and bear the stamp and signature of Engineer of Record.

1.06 SAMPLES

A. Prior to fabrication, delivery, or installation, submit samples as designated in the various specification sections; allow reasonable time for review and testing.

B. Submit samples in sufficient quantity and of adequate size to show quality, type, and extremes of color range, finish, and texture. Submit a minimum of two sets of appearance and color samples. Label each sample stating material, description, project name, and Contractor's name. Expedite submittal of appearance and color samples following Notice to Proceed.

C. Submit samples with transmittal letter requesting review; prepay transportation charges Samples shall become the County's property, unless otherwise designated.

D. Samples will be reviewed for acceptability or selection of color, pattern, and texture only Compliance with specifications is the responsibility of Contractor.

E. Order no materials subject to sample review until receipt of written notice of completion of review. Installed materials shall match reviewed samples. No review of samples shall be taken in itself to change contract requirements.

1.07 CERTIFICATES OF COMPLIANCE

A. Submit two copies of certificates of compliance as designated in the various specification sections.

B. Certificates shall be furnished by manufacturer, producer, or supplier of material or product and shall indicate that material or product conforms to or exceeds specified requirements. Include supporting reference data as appropriate. Certificates may be recent or previous test results on material or product, but must be acceptable to Engineer of Record.

1.08 PERMITS AND APPROVALS

A. Submit one copy of permits, code inspections, and agency approval documents, as designated in the various specification sections.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

1.09 TEST REPORTS

A. Submit two copies of test reports as designated in the various technical specifications.

1.10 PROJECT RECORD DOCUMENTS

A. Keep a current set of documents at job site that are marked to show all changes made during construction. Dimension underground and concealed work and utilities from permanent reference points; record vertical distances. Submit project record documents upon completion of Work.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

SECTION 01 41 23

PERMITS AND FEES

PART 1 - **GENERAL**

1.01 DESCRIPTION

A. County Responsibilities: The County has obtained the following permits, included in appendix:

- St. Johns River Water Management District (SJRWMD)
- CSX
- Florida Department of Environmental Protection

B. Contractor responsibilities: Obtain and pay for all other permits and licenses required by authorities having jurisdiction, including but not limited to: land clearing permit, NPDES Notice of Intent and dewatering permit.

C. Contractor shall be responsible to adhere to all provisions, requirements, and cost contained in all permits applicable to this project.

PART 2 - **PRODUCTS (NOT USED)**

PART 3 - **EXECUTION (NOT USED)**

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

SECTION 01 45 00

QUALITY CONTROL

PART 1 GENERAL

1.01 CONTRACTOR QUALITY CONTROL PLAN

The Contractor is responsible for his own quality control and must comply with FDOT Specifications Section 105 Contractor Quality Control General Requirements. Nassau County will act as the Department in all issues relating to Quality Control.

1.02 SECTION INCLUDES

Certification and testing, examination by the County, quality assurance testing, and final approval or work.

1.03 CERTIFICATION AND TESTING

The materials and equipment used in the construction of the project shall be subject to adequate certification and testing in accordance with generally accepted standards, as required and defined in the Contract Documents.

1.04 CONTRACTOR TO PROVIDE

The Contractor shall provide all tools, testing apparatus, materials to be tested, and labor as necessary to provide certification required by the Contract Documents.

1.05 OUTSIDE AGENCY

If the Contract Documents, laws, ordinances, rules, regulation or orders of any pubic authority having jurisdiction require any work to be certified, tested, or approved by someone other than the County, the Contractor will give the Engineer of Record timely notice of readiness. The Contractor will then furnish the County the required certification and/or testing certificates for approval.

1.06 LIMIT OF APPROVALS

Certifications, tests, or approvals by the County, Engineer of Record, or others shall not relieve the Contractor from his obligations to perform the work in accordance with the requirements of the Contract Documents.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

1.07 ACCESS TO WORK SITE

The County and his representative will at all times have access to the work. In addition, authorized representatives and agents of any participating federal or state agency shall be permitted access to all work, materials, payrolls, records of personnel, invoices of materials, and other relevant data and records. The Contractor will provide proper facilities for such access and observation of the work.

PART 2 EXAMINATION BY THE COUNTY

2.01 ACCESS

The County contemplates and the Contractor agrees to thorough examination of the work at all times by the County and the Engineer of Record, including all labor performed and materials furnished, delivered, or intended to be used in the work, including manufacture, preparation, and testing. The Contractor shall not use any material which has not been tested and accepted. The Contractor shall keep the Engineer of Record advised of the progress of the work away from the site requiring certification of witnessing of tests to ensure that scheduling conflicts or delays do not develop.

2.02 ACCEPTANCE TESTS

Tests, or acceptance of any materials prior to shipment, shall not be deemed as a final acceptance of the materials. The County may require tests or analysis of any portion of the materials at any time. Any material which is found to be defective or which does not otherwise conform to the requirements of the specifications shall be rejected and removed forthwith from the site, as provided in the contract.

2.03 RIGHT TO EXAMINE WORK

The County and the Engineer of Record shall have the right to examine all materials and work done during any phase of construction, fabrication, or manufacture. The Contractor shall furnish all reasonable facilities and aid to the Engineer of Record and safe and convenient means for the examination of any part of the work. No work shall be closed or covered until it has been duly examined and approved.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

PART 3 QUALITY ASSURANCE TESTING

3.01 DESCRIPTION

The Contractor is required to provide all testing as described in these specifications. Testing shall be completed by an independent testing laboratory retained by the Contractor and approved by the Engineer of Record. The Contractor is required to submit independent testing laboratory qualifications. Certifications, tests, or approvals by the County, Engineer of Record, or others shall not relieve the Contractor from his obligations to perform the Work in accordance with the requirements of the Contract Documents.

3.02 CODES AND REGULATIONS TESTING

Testing will be in accordance with all pertinent codes and regulations and with selected standards of the American Society of Testing and Materials. The Engineer of Record shall process and distribute all required copies of test reports and related instruction to ensure all necessary retesting and/or replacement of materials with the least possible delay in progress of work.

3.03 RETESTING

When initial quality assurance tests indicate noncompliance with the Contract Documents, all subsequent retesting occasioned by the noncompliance shall be performed by the same testing laboratory and the costs thereof shall be borne by the Contractor.

3.04 COOPERATION WITH THE COUNTY'S TESTING LABORATORY

The County may perform any additional tests that he may deem necessary at his own expense. Representatives of the County's testing laboratory shall have access to the work at all times. The Contractor shall provide facilities for such access in order that the laboratory may properly perform its functions.

3.05 ADDITIONAL TESTING

If the County orders sampling, analysis, or tests of materials which are specified to be accepted on certification by the manufacturer, but which appear defective or not conforming to the requirements of the specifications, the Contractor shall bear all the costs of sampling, transportation, tests, and analyses if the material is in fact found defective or does not conform to the specifications. If the material is found to be sound and conforming to the specifications, the County will pay for the testing.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

PART 4 FINAL APPROVAL

4.01 FINAL APPROVAL

Final approval of the Work shall be made by the County and the Engineer of Record shall be contingent upon the findings of a thorough examination of the Work. Such examination shall be made within ten (10) working days after receipt of the Contractor's written request. The Work will be accepted and deemed completed as of the date of such examination if, upon such examination, the Engineer of Record and the County find that no further Work remains to be done at the site. If the examination reveals items of Work still to be performed, the Contractor shall promptly perform them and request a re-examination. If upon any reinspection the Engineer of Record and the County determine that the Work is complete, the date of completion shall be deemed to be the actual date of such re-examination.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

SECTION 01 50 00

TEMPORARY FACILITIES AND CONTROLS

1.01 TEMPORARY ELECTRICITY

A. Contractor shall provide temporary electric service and distribution facilities as required for its own construction purposes. Provide portable power supply or make arrangements with local utility company for temporary service including service poles, driven ground, main service switch, transformer, and metering facilities. Pay for electrical energy consumed.

1.02 TEMPORARY LIGHTING

A. Contractor shall provide temporary lighting sufficient to enable its workers to complete work and to enable inspectors to check work, as required.

1.03 TEMPORARY WATER

A. Contractor shall be responsible for obtaining water for its needs. Pay cost of water used and meter rental, if applicable.

1.04 TEMPORARY SANITARY FACILITIES

A. Contractor shall provide temporary outside toilets sufficient for its own workers.

1.05 TEMPORARY FIRE PROTECTION

A. Contractor shall provide fire extinguishers and other fire protection equipment for all possible classes and types of fire.

1.06 PROTECTION OF WORK AND PROPERTY

A. Observe safety provisions of applicable laws and regulations.

B. Erect and maintain all required planking, barricades, guardrails, fences, safety lanterns, and temporary walkways of sufficient size, strength, and type necessary for protection of material storage, adjacent property, and new construction, as well as to prevent accidents to public and workers at job site.

C. Notify the County if existing property interferes with work so that arrangements for proper protection can be made.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

D. Protect all work, materials, apparatus, and fixtures incorporated in work or stored on site against damage. At end of day, cover all new work likely to be damaged.

E. Protect all finished construction until acceptance by the County. Repair damage to finished work to satisfaction of the County.

1.07 ENVIRONMENTAL CONTROLS

A. Maintain erosion control measures to protect the project site and prevent sediment pollution of adjacent water courses and properties.

1. Install erosion control measures prior to start of construction and maintain them until final completion of work. Unless otherwise instructed, remove temporary erosion control measures prior to final application for payment.
2. Strive to limit stripping of sod and vegetation to a period that will expose bare soil to the least possibility of erosion that construction requirements allow.
3. Construct and maintain silt fence barriers, erosion bale barriers, or temporary diversions to receive runoff leaving site.
4. Protect storm drain inlets by using silt fence barriers, erosion bale barriers, or equivalent.
5. Remove at the end of each work day soils and sediment reaching public or private streets not part of the construction site.
6. Unless otherwise shown or specified, erosion control measures shall comply with the planning, design, and maintenance provisions of Section 104 of the Florida Department of Transportation Standard Specifications for Road and Bridge Construction, 2019 Edition.

B. Provide controls to confine dust and dirt within project area. Thoroughly soak masonry and debris during demolition and loading operations. Water exposed soils or aggregates as required to prevent windblown dust.

C. Provide noise control measures to limit the amount of noise and prevent nuisance. Properly equip all equipment with mufflers. Limit construction activities generating significant noise to normal working hours.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

1.08 TRAFFIC CONTROL

A. Conduct operations to ensure minimum interference with streets, driveways, walks, and adjacent facilities not part of construction project.

B. Do not close or obstruct streets, walks, or other occupied or used facilities without permission from authorities having jurisdiction. Provide alternate routes around closed or obstructed traffic ways if required by governing regulations.

1.09 CONSTRUCTION CLEANING

A. Remove rubbish and debris from work area promptly upon its accumulation. Perform a broom cleaning of all appropriate surfaces weekly.

B. Immediately clean up spillages of oil, grease, or other liquids which could cause a slippery or otherwise hazardous situation or stain a finished surface.

C. Form or scrap lumber shall have all nails withdrawn or bent over and shall be stacked, placed in trash bins, or removed from site.

D. At completion of project, thoroughly clean, sweep, and wash work to remove foreign matter, spots, and soil from work and equipment under this contract. Remove temporary guards and protective coatings.

1.10 DISPOSAL

A. Provide industrial type waste containers in number and size required or provide other acceptable methods of disposing of debris. Place containers at adequate locations to handle debris and have them emptied as required.

B. No burning of rubbish or debris will be allowed at site.

C. Store combustible waste in fire-resistive containers. Store hazardous wastes, such as caustics, acids, and harmful dusts, in appropriate covered containers. Dispose of wastes regularly.

D. If a contractor does not remove rubbish or clean work as specified above, the County reserves right to have work done by others at Contractor's expense.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

SECTION 01 55 26

TRAFFIC CONTROL

PART 1 - GENERAL

1.01 DESCRIPTION

A. This Section covers procedures for developing and implementing traffic control and regulation measures and maintenance of traffic in and around the construction area to provide for safe and efficient protection and movement of vehicular and pedestrian traffic/through and adjacent to the construction site areas.

1.02 REFERENCE STANDARDS

A. General

1. Codes, specifications, and standards referred to by number or title shall form a part of this Specification to the extent required by the reference thereto. Latest revisions shall apply, unless otherwise shown or specified.

B. Florida Department of Transportation (FDOT) Standards:

1. USDOT Manual on Uniform Traffic Control Devices.

2. FDOT Manual of Traffic Control and Safe Practices for Street and Highway Construction, Maintenance and Utility Operations.

3. FDOT Standard Specifications for Road and Bridge Construction, 2020 Edition.

1.03 SUBMITTALS

A. Before closing or restricting traffic flow through any thoroughfare, the Contractor shall give written notice to and, if necessary, obtain a permit or permits from the duly constituted public authority having jurisdiction over the thoroughfare. Contractor shall also notify the applicable law enforcement, fire, and emergency services having jurisdiction in the area. Notice shall be given no less than seventy-two (72) hours in advance of the time when it may be

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necessary in the process of construction to close or restrict traffic to such thoroughfare, or as may be otherwise required by the governing authority.

B. For any road or lane closures on this project, Contractor shall refer to the Nassau County Road Closure Policy and contact Nassau County Engineering Services Department at (904) 491-7330.

1.04 SITE CONDITIONS

A. The Contractor shall plan construction operations such that existing local traffic access can be maintained and shall be maintained during the construction using such barricades, lights, flagmen, and other protective devices as appropriate, whether specified for the project or required by the local governing authority. Traffic control devices and implementation used for maintenance of traffic shall comply with the FDOT Manuals.

B. The Contractor shall conduct his work in such manner as not to unduly or unnecessarily restrict or impede normal traffic through the streets of the community. Insofar as it is practicable, excavated material and spoil banks shall not be located in such manner as to obstruct traffic. The traveled way of all roads shall be kept clear and unobstructed insofar as is possible and shall not be used for the storage of construction materials, equipment, supplies, or excavated earth, except when and where necessary. If required by duly constituted public authority, the Contractor shall, at his own expense, construct bridges or other temporary crossing structures over trenches so as not to unduly restrict traffic. Such structures shall be of adequate strength and proper construction and shall be maintained by the Contractor in such manner as not to constitute an undue traffic hazard. Private driveways shall not be closed except when and where necessary, and then only upon due advance notice to the County, property owner and applicable jurisdictional authority, and shall be for the shortest practicable period of time consistent with efficient and expeditious construction. The Contractor shall be liable for any damages to persons or property resulting from his work.

C. The Contractor shall make provisions at cross streets for the free passage of vehicles and foot passengers, either by bridging or otherwise, and shall not obstruct the swales nor prevent in any manner the flow of water in the swales, but shall use all proper and necessary means to permit the free passage of surface water in the swales. The Contractor shall immediately cart away all offensive matter, exercising such precaution as may be directed by the County or applicable jurisdictional authority. All material excavated shall be so disposed of as to inconvenience the public and adjacent tenants as little as possible and

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

to prevent injury to trees, sidewalks, fences, and adjacent property of all kinds. The Contractor may be required to erect suitable barriers to prevent such inconvenience or injury.

D. Unless otherwise required by the governing authority, maintenance of traffic in and around the construction zone shall conform to Section 102 of the FDOT Specification, and 600 Series Roadway Design Standards drawings of the FDOT Standards, as applicable.

PART 2 - **PRODUCTS** (NOT USED)

PART 3 - **EXECUTION** (NOT USED)

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

SECTION 01 60 00

PRODUCT REQUIREMENTS

1.01 PRODUCTS

A. Provide new, high quality products manufactured and conditioned for the particular application as recommended by manufacturer, unless otherwise noted. Transport, handle, store, and protect products as specified and in accordance with manufacturer's recommendations.

1.02 MANUFACTURER'S DIRECTIONS

A. Wherever work is to be performed or products are to be installed in accordance with manufacturer's instructions, furnish copies of printed instructions before installation.

1.03 SOURCE OF PRODUCTS

A. In order that ready availability of materials, parts, or components for repair, replacement, or expansion can be assured, original equipment and components shall be obtained where feasible from domestic sources which maintain a regular stock.

1.04 ACCEPTABLE MANUFACTURERS

A. Products, materials, and equipment identified by reference to a manufacturer's name, catalog number, or model are identified for the purpose of establishing a standard of quality, type, and function. Products first named in specifications are depicted for general descriptive purposes only. Any other product, material, or equipment which will perform adequately the duties imposed by the general design will be considered for substitution in accordance with the provisions below.

1.05 OPTIONS AND CHANGES

A. Wherever options consisting of two or more choices are permitted for any product, procedure, or method, Contractor may select any of the named alternatives.

B. Changes and revisions to Contract Documents may be made by Change Order, Field Order, or other procedure authorized under the Contract Documents.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

C. All other revisions not defined as options or changes shall be treated as Substitutions. (Options and changes will not be treated as Substitutions.)

1.06 BID PHASE SUBSTITUTIONS

A. Substitutions and alternatives proposed prior to the Bid Deadline shall be submitted in accordance with the Instructions to Bidders.

1.07 CONSTRUCTION PHASE SUBSTITUTIONS

A. Substitutions proposed after Contract has been awarded shall be submitted for approval prior to their use. Consideration will be given only to proposed substitutions for those products named in the Contract Documents which are no longer available or cannot be provided within the Contract Time, or where standard products are no longer in conformance, or where the County's interests may be adversely affected.

B. If substitutions are approved, Contractor assumes responsibility for any other changes in systems or for modifications required in other work to accommodate the substitution, regardless of approval of the substitution.

C. Requests for substitution of alternate products shall be submitted with complete references to manufacturer's product identification and product data indicating composition, guarantee, availability, applicable standards or agency approvals met or exceeded, restrictions imposed on product, and manufacturer's recommended method of application or installation. Substitutions will be considered acceptable if the product will perform adequately the duties imposed by the general design and, in opinion of Engineer of Record, is of equal substance, quality, appearance, and function, unless the named item is necessary for interchangeability or if the named product has been demonstrated to be most cost-effective.

1.08 DEFECTIVE PRODUCTS

A. All products which do not conform to specified requirements shall be considered defective and shall be removed from the Work. If in place, faulty materials shall be corrected or replaced to meet specified requirements.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

1.09 TRANSPORTATION AND HANDLING

A. Products shall be transported and handled in accordance with the Contract Documents and as defined below. Deliver in original packaging with manufacturer's brand, seals, and labels intact. Refer to individual sections of specifications for specific requirements.

B. Arrange for product transportation as required for construction. Select means of transportation which will reasonably assure timely and safe arrival. Products shall be suitable for intended use upon arrival at project and shall be undamaged and free from defects.

C. Select appropriate methods for handling products to preserve their integrity, quality, and function.

1.10 MATERIAL PROTECTION

A. Protect materials in accordance with Section 01 50 00, specific requirements of individual sections of specifications, and according to manufacturer's recommendations.

B. Provide and maintain watertight storage sheds with raised floors for storage of products that might be damaged by weather. Cement, lime, and other materials affected by moisture shall be stored on platforms.

1.11 STORAGE

A. Confine storage of products to limits designated by the County. Do not bring products to site until needed for progress of work. Storage of products within buildings shall not exceed design capacity of structural system.

B. The County assumes no responsibility for products stored on site. Contractor shall assume full responsibility for damage to stored products, except as covered by property insurance for the work under construction (see General and Supplementary Conditions).

C. Contractor shall allot space to subcontractors for storage of products and erection of offices and tool sheds. Locate storage buildings, temporary sheds, and stockpiles to avoid interference with new and existing facilities; move sheds, storage platforms, and materials as necessary.

D. Upon completion, restore areas disturbed by construction.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

SECTION 01 71 23

FIELD ENGINEERING

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. Provide field engineering service for project as indicated on Drawings and specified in this Section.

1.02 QUALIFICATIONS OF SURVEYOR OR ENGINEER

A. Florida Registered Engineer or Land Surveyor.

1.03 SURVEY REFERENCE POINTS

A. Existing basic horizontal and vertical control points are designated on Drawings. All elevations are based on the benchmarks shown on the plans. Establish all vertical and horizontal controls required for construction.

B. Locate and protect control points prior to starting site work, and preserve permanent reference points during construction.

1. Make no changes or relocations of such points without prior written notice to Engineer of Record and the County.

2. Report to Engineer of Record and the County when any reference point is lost or destroyed, or requires relocation because of necessary changes in grades or locations.

3. Require surveyor to replace control points which may be lost or destroyed. Establish replacements based on original survey control.

4. Engineer of Record will identify existing control points and properly line corner stakes indicated on Drawings, as required.

5. Elevations are based on the National Geodetic Vertical Datum of 1988.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

1.04 PROJECT SURVEY REQUIREMENTS

A. Establish a minimum of two (2) permanent benchmarks on the project site, all referenced to data established by survey control points. Record locations, with horizontal and vertical data, on Project Record Documents.

B. Establish lines and levels, locate and lay out, by instrument and similar appropriate means.

1. Site improvements.

2. Controlling lines and levels required for mechanical and electrical trades.

C. Verify layouts by same methods from time to time.

1.05 RECORDS

A. Maintain a complete, accurate log of control and survey work as it progresses.

B. On completion of foundations and major site improvements, prepare a certified as-built survey showing finished dimensions, locations, angles and elevations of construction.

C. Refer to Nassau County‘s As-Built Checklist.

1.06 SUBMITTALS

A. Submit name and address of surveyor or professional engineer to Engineer of Record and the County.

B. On request of Engineer of Record and the County, submit documentation to verify accuracy of field survey work.

C. Submit certificate signed and sealed by a State of Florida Registered Engineer or Land Surveyor certifying that elevations and locations of improvements are in conformance with Contract Documents.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

SECTION 01 77 00

CLOSEOUT PROCEDURES

1.01 SUMMARY

A. Complete closeout procedures and final submissions as listed below and as required by the other Contract Documents. Refer to General Conditions regarding Substantial Completion, Final Completion, and Final Payment.

1.02 FACILITY START-UP

A. Submit test reports before requesting certification of Substantial Completion.

1.03 SUBSTANTIAL COMPLETION

A. Contractor shall notify Engineer of Record when it considers the Work (or a portion of the Work which the County agrees to accept separately) to be substantially complete. Contractor's notice shall include a comprehensive list of items to be completed or corrected prior to final payment.

B. Upon receipt of Contractor's list, Engineer of Record, the County, and Contractor shall make an inspection to verify that the Work is substantially complete.

1. If the County considers the Work to be substantially complete, the County will issue a Certificate of Substantial Completion along with a “Construction Acceptance Checklist” of items to be completed or corrected prior to Final Payment. Items on punch list shall be completed within 60 days. Required submittals (see below) shall be completed prior to or when requesting Final Payment.

2. If the County does not consider the work to be substantially complete, the County will inform Contractor of items that need to be completed or corrected before Substantial Completion. Contractor shall promptly complete these items and request a reinspection by the County.

1.04 FURNISHED PRODUCTS AND LOANED TOOLS

A. Prior to Final Payment, return all extra materials, unused parts, and equipment furnished by the County; return loaned tools and equipment.

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1.05 FINAL COMPLETION

A. Contractor shall notify Engineer of Record and the County when it considers all Work to be complete. Engineer of Record, the County, and Contractor shall make an inspection to verify that the Work is complete.

1. If the County considers the Work to be complete, Contractor shall submit final Application for Payment.

2. If the County does not consider the Work to be complete, the County will inform Contractor of items that need to be completed or corrected before completion. Contractor shall promptly complete these items and request a reinspection by the County.

B. Prime Contractor is responsible for reviewing all Construction Acceptance Checklist items and verifying that each item is complete before requesting final inspection.

1.06 CHARGES FOR REINSPECTIONS

A. The County will inspect the Work (or a portion of the Work which the County agrees to accept separately) at Substantial Completion and at Final Completion. If the Work is not complete to the required level at either Substantial Completion or Final Completion, and a reinspection is required, Contractor shall reimburse the County for charges of the County and the County's consultants for performing the reinspection.

1.07 SUBMITTALS

A. Submittals required before Contract Closeout are listed below:

1. Contractor Lien Waiver
2. Subcontractor Lien Waiver
3. Consent of Surety to Final Payment
4. Compliance with all permits and other governmental agencies
5. Certification of Inspections "Certification Package"
6. Warranties and Bonds
7. As-Built Drawings
8. Operation and Maintenance Manuals
9. All other documents as required in the Contract Documents

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APPENDIX A

GEOTECHNICAL REPORT

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REPORT OF A
GEOTECHNICAL EXPLORATION

Pages Dairy Road and Chester Road Intersection Improvements
Nassau County, Florida

UES Project No. 0930.2000217.0000
UES Report No. 1510770v2
November 24, 2020

Prepared for:

CONNELLY & WICKER, INC.
10060 Skinner Lake Drive – Suite 500
Jacksonville, Florida 32246

Prepared by:

UNIVERSAL ENGINEERING SCIENCES, INC.
5561 Florida Mining Boulevard South
Jacksonville, Florida 32257-3648
(904) 296-0757

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UNIVERSAL
ENGINEERING SCIENCES
Consultants in: Geotechnical Engineering • Threshold
Environmental Sciences • Construction Materials Testing

November 24, 2020

Connelly & Wicker, Inc.
10060 Skinner Lake Drive – Suite 500
Jacksonville, Florida 32246

Attention: Mr. Danny Waltermyer, P.E.

Subject: **Report of a Geotechnical Exploration**
Pages Dairy Road and Chester Road Intersection Improvements
Nassau County, Florida
UES Project No. 0930.2000217.0000 and UES Report No. 1510770v2

Dear Mr. Waltermyer:

Universal Engineering Sciences, Inc. (Universal) has completed a soil survey for the Pages Dairy Road and Chester Road Intersection Improvements project. The scope of our investigation for this project was planned in conjunction with and authorized by you. This report briefly presents our understanding of the proposed construction, describes the field exploration and laboratory testing performed, presents the data obtained, and provides our geotechnical engineering evaluation of the subsurface conditions within the area of the proposed roadway improvements.

We appreciate the opportunity to work with Connelly & Wicker, Inc. on this project and look forward to a continued association. Please do not hesitate to contact us if you should have any questions, or if we may further assist you as your plans proceed.

Sincerely,

UNIVERSAL ENGINEERING SCIENCES, INC.

STEPHEN R. WEAVER LICENSE No. 87389 STATE OF FLORIDA PROFESSIONAL ENGINEER

Stephen R. Weaver, P.E.
Geotechnical Services Manager
FL P.E. Number 87389
Date: 11/24/20
SRW/pm

Payton W. Mann, E.I.
Project Engineer
Date: 11/24/20

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TABLE OF CONTENTS

1.0 INTRODUCTION 1
1.1 Site Location and Description 1
1.2 Project Considerations 1
1.3 Purpose and Scope of Study 1
1.4 USDA SCS Soil Survey Data 2
1.5 Area Geology 2

2.0 FIELD EXPLORATION 2

3.0 LABORATORY TESTING PROGRAM 3
3.1 Visual Classification 3
3.2 Index Tests 3

4.0 PAVEMENT COMPONENT THICKNESSES 4

5.0 GENERAL SUBSURFACE CONDITIONS 5
5.1 General 5
5.2 General Soil Profile 5
5.3 Groundwater Conditions 5

6.0 CONCLUSIONS AND RECOMMENDATIONS FOR MILLING AND RESURFACING . 6

7.0 CONCLUSIONS AND RECOMMENDATIONS FOR ROADWAY WIDENING 7
7.1 Soil Suitability for Roadway 7
7.2 Pavement Design Recommendations 8

8.0 RETENTION POND FILL SUITABILITY 8

9.0 LIMITATIONS 8

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

TABLES

Table 1 Summary of USDA SCS Soil Survey
Table 2 Pavement Component Thickness Summary
Table 3 Generalized Roadway Soil Profiles

APPENDIX A

USGS Site Location Map
USDA-SCS Soil Survey Map

APPENDIX B

Soil Survey Sheet
Soil Profile Sheet
Pond Profile Sheet
Field Exploration Procedures

APPENDIX C

Summary of Classification and Index Testing
Laboratory Testing Procedures

APPENDIX D

GBC Document
Constraints and Restrictions

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1.0 INTRODUCTION

1.1 Site Location and Description

The subject project is located along Chester Road and Pages Dairy. From the intersection of Pages Dairy Road and Chester Road, this project extends approximately 1300 feet to the south, 1000 feet east, and 1000 feet north. An excerpt from the U.S.G.S. quadrangle map of the project area appears as Figure A-1 in Appendix A.

1.2 Project Considerations

We understand that the project consists of improvements to the Pages Dairy Road and Chester Road Intersection in Nassau County, Florida. It also includes the construction of a retention pond. From Station 238+80 to Station 185+20 on Chester Road, the proposed roadway will consist of two 11-foot northbound lanes, two 11-foot southbound lanes, an 11-foot turn lane, two 5-foot bike lanes, and two 6-foot sidewalks. From Station 185+20 to Station 195+00 on Chester Road, the proposed roadway will consist of two 11-foot northbound lane, one 11-foot southbound lane, two 11-foot turn lanes, and two 5-foot bike lanes. From Station 240+00 to the intersection on Pages Dairy Road, the proposed roadway will consist of one 11-foot northbound lane, one 11-foot southbound lane, two 11-foot turn lanes, and a 5-foot paved shoulder on the north side of the road. The project will also include milling and resurfacing of the existing pavement on Pages Dairy Road and the construction of a retention pond near the northwest corner of the intersection of Pages Dairy Road and Chester Road. In addition, an additional exploration was performed along Chester Road from Station 242+00 to 243+00 for an additional turn lane construction.

Our recommendations are based upon the above considerations. If any of this information is incorrect, or if you anticipate any changes, please inform Universal Engineering Sciences, Inc. (Universal) so that we may review our recommendations.

1.3 Purpose and Scope of Study

The purposes of this study were to explore the subsurface conditions along the proposed roadway improvement areas and to provide recommendations to guide roadway design and construction. We accomplished these purposes by:

1. Reviewing published data such as USGS Topographic Quadrangle maps, USDA Soil Survey maps, and geological literature;

2. Conducting site reconnaissance to observe existing site conditions;

3. Examining recovered soil samples in our laboratory and performing tests on selected samples to aid in classification;

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4. Interpreting and reviewing the subsurface conditions as obtained by our field personnel with respect to the proposed construction; and

5. Providing geotechnical engineering recommendations for site preparation and construction.

1.4 USDA SCS Soil Survey Data

The predominant surficial soil types were identified using the online Web Soil Survey for Nassau County as prepared by USDA Natural Resources Conservation Service. The majority of the surficial soils may be classified as follows.

Table 1. Summary of USDA SCS Soil Survey

Soil Type	Constituents		Natural Drainage	Seasonal High Water Table (ft)
Leon (9)	0-18” 18-80”	Fine sand Fine sand, loamy fine sand	Poorly Drained	0.5 – 1.5
Kingsferry (24)	0-34” 34-67” 67-80”	Fine sand Sand, fine sand, loamy fine sand Sand, fine sand	Very Poorly Drained	0.0
Ridgewood (27)	0-7” 7-80”	Fine sand Sand, fine sand	Somewhat Poorly Drained	1.5 – 3.5
Evergreen (39)	0-11” 11-26” 26-80”	Muck Sand, fine sand Sand, fine sand, loamy fine sand	Very Poorly Drained	0.0

An excerpt of the Soil Survey Map is included as Figure A-2 in Appendix A.

1.5 Area Geology

Nassau County is considered to be part of the Paleozoic to Recent Age. The sediments of the Paleozoic Age consist of carbonate sediments that have stratified layers approximately 1,000 feet thick. The material of Recent and Pliestocene Age are composed of quartz, sand, clay and shell, which are considered alluvial material. The upper part of the formation consists of unconsolidated sediments, such as shelly sand and clay. This material is underlain by the Hawthorn formation and extends to the upper part of the limestone in the Floridian Aquifer.

2.0 FIELD EXPLORATION

Our field exploration program was performed on February 14, 2017 and November 8-10, 2017. Our exploration consisted of performing auger borings to the north and south of the existing roadway on Pages Dairy and to the east and west of Chester Road. In addition, a recent exploration was conducted along Chester Road for the turn lane addition construction on November 5, 2020. The boring locations (stations and offsets) were estimated based on plans provided by Connelly & Wicker, Inc.

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To determine the existing subsurface soil conditions adjacent to the existing pavement areas, we located and performed three pavement cores on Pages Dairy Road and ten pavement cores on Chester Road. We performed four auger borings adjacent to Pages Dairy Road and eight auger borings adjacent to Chester Road to depths of approximately 5 feet below the existing ground surface in the proposed pavement widening areas. We also performed two auger borings in the vicinity of the proposed pond to depths of 15 feet. In addition, we recently performed two auger borings to depths of 6 feet along Chester Road for the turn lane additions. The borings were drilled in general accordance with the methodology outlined in ASTM D 1452. A summary of these field procedures is included in Appendix A. Representative soil samples recovered from the borings were returned to our laboratory for further evaluation.

Our field personnel visually inspected the recovered soil samples, and recorded their observations on field logs. Representative portions of each soil sample were placed in sealed containers for transportation to our laboratory. Stabilized groundwater levels were measured and recorded on the field logs.

The Soil Profile Sheets present the descriptions of the soil conditions encountered at the boring locations and are included in Appendix B. The Soil Profile Sheets also present the locations (stations and offsets) of the borings. The stratification lines on the profile sheets represent the approximate boundary between soil types, as determined in the field by our drillers. The transition between soil types at each boring location may be gradual. A description of the drilling and sampling techniques used is provided on the Field Exploration Procedures included in Appendix B.

3.0 LABORATORY TESTING PROGRAM

3.1 Visual Classification

Representative soil samples obtained during our field exploration were placed in sealed containers and transported to our laboratory for further visual examination and classification. The soil samples were visually classified in general accordance with the AASHTO Soil Classification System (ASTM D - 2488). A summary of the resulting soil descriptions are shown on the Soil Survey Sheet presented in Appendix B.

3.2 Index Tests

Quantitative laboratory testing was performed on selected samples of the soils encountered during the field exploration. The laboratory testing was performed to better define the composition of the soils encountered and to provide data for correlation to their anticipated strength and compressibility characteristics.

The results of the laboratory testing performed by Universal are presented in Appendix C. The results of all laboratory tests performed by Universal are summarized on the Soil Survey Sheet in Appendix B.

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4.0 PAVEMENT COMPONENT THICKNESSES

Table 2: Pavement Component Thickness Summary, summarizes the asphalt and base type/thicknesses encountered at the boring locations. Structural numbers were determined by using reduced layer coefficients for the asphalt layer based on visual observations of the pavement condition in accordance with FDOT Guidelines.

TABLE 2. Pavement Component Thickness Summary

Pavement Core Location	Station and Direction	Asphalt Thickness	Base Thickness/Type	Structural Number	Comments
C-1	SB 241+50 15' from CL	4-3/4"	8-3/4" Limerock	2.76	Partial Surface Crack
C-2	NB 241+50 14' from CL	4"	6-1/8" Limerock	2.10	Full depth crack
C-3	SB 247+50 7' 8" from EOP	2-1/2"	5-1/2" Asphalt Base Course	2.97	-
C-4	247+50 2' 8" East from CL	2-1/2"	2-5/8" Asphalt Base Course	1.99	-
C-5	NB 247+50 8' from EOP	2-1/2"	3-1/8" Asphalt Base Course	2.16	-
C-6	SB 248+75 11' 5" from EOP	2"	5-1/4" Asphalt Base Course	2.67	-
C-7	248+75 1' East from CL	1-1/2"	2-1/2" Asphalt Base Course	1.51	-
C-8	NB 248+75 13' from EOP	1-1/2"	3-1/4" Asphalt Base Course	1.32	Full depth crack
C-9	EB 248+45 7' from EOP	2-1/2"	3-3/4" Asphalt Base Course	2.38	-
C-10	WB 248+45 14' from north edge of EOP	1-1/2"	2-1/2" Asphalt Base Course	1.51	-
C-11	WB 248+45 3' 7" from EOP	1-1/2"	3-3/8" Asphalt Base Course	1.35	Full depth crack
C-12	SB 187+80 9' from EOP	1-3/4"	2-1/2" Asphalt Base Course	1.62	-
C-13	NB 187+80 7' 8" from EOP	2-1/2""	6" Asphalt Base Course	3.14	-

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5.0 GENERAL SUBSURFACE CONDITIONS

5.1 General

Stratification of the explored soils is based upon visual examination of the recovered soil samples, laboratory classification and index testing, and interpretation of the field boring logs by a geotechnical engineer. Stratification lines represent approximate boundaries between soil types, however, the actual transition between layers may be gradual. The soil conditions are presented on the Soil Profile Sheet in Appendix B. It should be understood that soil and groundwater conditions can vary between borings.

5.2 General Soil Profile

The borings for this study indicated relatively uniform subsurface conditions throughout the length of the proposed roadway improvements. In general, sands (A-3, Stratum 1), and find sand with silt (A-2-4, Stratum 2) were encountered beneath the surficial layers of topsoil materials. All of the soil types identified by this study are presented in Table 3 below.

Table 3. Generalized Roadway Soil Profiles.

Stratum Number	Description	AASHTO Classification
1	Fine sand, fine sand with silt, fine sand with clay	A-3
2	Fine sand with silt	A-2-4

5.3 Groundwater Conditions

The groundwater levels were typically encountered at 2.9 feet to 3.6 feet below the existing ground surface at the roadway auger borings and was encountered at a depth range of 2 to 2.6 feet at the retention pond auger borings. The estimated seasonal high groundwater level at each boring location is presented on the Roadway Soil Profiles and Pond Soil Profiles in Appendix B.

It should be anticipated that the groundwater level will fluctuate due to seasonal climatic variations, surface water runoff patterns, construction operations, and other interrelated factors. The typical normal seasonal high water table each year occurs during the August-September period at the end of the rainy season. The water table elevations associated with a 100-year flood level would be much higher than the normal seasonal high water table elevations.

The normal seasonal high water table is affected by a number of factors. The drainage characteristic of the soils, the land surface elevation, relief points such as lakes, rivers, swamp areas, etc., and distance to relief points are some of the more important factors influencing the normal seasonal high water table elevation.

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6.0 CONCLUSIONS AND RECOMMENDATIONS FOR MILLING AND RESURFACING

Pavement Section - As indicated in Table 2, the borings performed at the site encountered asphalt thicknesses ranging from 4 to 8-1/2 inches. Two cores encountered limerock base thicknesses ranging from 6-1/8 to 8-3/4 inches. The structural numbers at the core locations ranged from 1.32 to 3.14. We have not been provided with design traffic loadings to evaluate the adequacy of the pavement section.

Subgrade - The soils encountered in Strata 1 and 2 soils (classified as A-3 and A-2-4 materials) are select soils and are satisfactory to use in the subgrade and embankment when utilized in accordance with Index 505. However, it should be noted that Stratum 2 soils are likely to retain excess moisture and be difficult to dry and compact.

Groundwater Levels - The groundwater levels were typically encountered at 2.9 feet to 3.6 feet below the existing ground surface at the roadway auger borings and was encountered at a depth range of 2 to 2.6 feet at the retention pond auger borings. The estimated seasonal high groundwater level at each boring location is presented on the Roadway Soil Profiles and Pond Soil Profiles in Appendix B.

Subsurface Drainage – There are shallow swales and deep ditches located along both sides of Pages Dairy Road and Chester Road. Based on the groundwater levels encountered, it is our opinion that there is adequate subsurface drainage and that this is not a cause for the cracking observed.

Pavement Condition - Based on our observations the pavement condition generally varied from fair to good with few areas of cracking.

Pavement Age – It is not known the age of the pavement. However, based on our observations, it appears that this pavement exhibits cracking and wear typical of an older pavement. Pavements are typically designed for a 15 to 20 year service life. Therefore, it is our opinion that the age of the pavement may be a contributing factor to the pavement distress noted at the site.

Based on our site observations, the distress noted to the existing flexible pavement generally consisted of fatigue cracking with the possibility that some of the patched areas were previously potholes. Based on the evaluation above and the subsurface conditions encountered, it is our opinion that the pavement distress noted at the site could be due to a combination of the following:

1. Possibility of an inadequate pavement section for current traffic,
2. Age of the pavement

It should be noted that often significant cracking and potholes are the result of high groundwater conditions or inadequate drainage. However, there is no indication that either of these conditions have existed at the site.

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Based on the above evaluation, it is our opinion that there are three options for maintenance/repair for the pavement distress noted:

1) Total reconstruction of the pavement section,
2) Mill and resurface/overlay the existing pavement, and
3) Overlay the existing pavement without milling.

If total reconstruction of the pavement section is performed, it may be possible to blend the existing base and asphalt and possibly add cement to form a serviceable base for the project. We recommend that the new pavement section conform to the original pavement design for the project. Alternatively, we can develop a new pavement design if design traffic conditions are available. We can provide more details for pavement design parameters and construction procedures if total pavement reconstruction is considered a viable option.

Milling of the existing pavement can be performed with the anticipation that cracks will be present in areas in which full depth racks were observed unless the entire asphalt section is removed. If cracks are present after the milling, an FDOT ARMI layer or a product such as Petromat can be applied on the milled surface prior to application of the overlay to help extend pavement life. However, reflective cracking will occur at some point if the pavement is not milled to at least the depth of all cracks (i.e., full depth of asphalt in many of the cores). In this option, the finished pavement section should meet the original pavement design or an updated design based on future traffic forecasts. Prior to performing this option, it may be prudent to test the LBR of the existing limerock and subgrade for conformance to the original or updated design as appropriate. If it is determined that the subgrade and base are inadequate in this regard total reconstruction of the pavement, including the subgrade and base, may be required.

7.0 CONCLUSIONS AND RECOMMENDATIONS FOR ROADWAY WIDENING

7.1 Soil Suitability for Roadway

Our geotechnical engineering evaluation of the subsurface conditions within the proposed roadway construction and improvement areas and our recommendations are based upon (1) our site observations, (2) the field and laboratory test data obtained, (3) FDOT guidelines, and (4) our understanding of the project information as presented in this report. If the project information is incorrect or should the alignment of the roadway should change, please contact us so that we can review our recommendations. The discovery of any site or subsurface conditions during construction which deviate from the data obtained during this geotechnical exploration should also be reported to us for our evaluation.

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The results of our exploration indicate the soil conditions encountered by the borings are generally suitable for construction and support of the proposed roadway improvements provided that construction is performed in general accordance with the appropriate section of the current edition of the FDOT Standard Specifications for Road and Bridge Construction.

The soils encountered in Strata 1 and 2 soils (classified as A-3 and A-2-4 materials) are select soils and are satisfactory to use in the subgrade and embankment when utilized in accordance with Index 505. However, it should be noted that Stratum 2 soils are likely to retain excess moisture and be difficult to dry and compact.

7.2 Pavement Design Recommendations

One of the most critical influences on the pavement performance in Florida is the relationship between the pavement subgrade and the seasonal high groundwater level. Many roadways have been damaged as a result of deterioration of the base and base/surface course bond. The FDOT required separation between the bottom of base material and the seasonal high groundwater level is influenced by the type of base material. When using limerock base, a separation of 2 feet is required.

If required, Standard Index 286 provides the approved underdrain type when an adequate separation does not exist. Underdrain construction, if necessary, should be performed in accordance with Sections 440 of the FDOT Standard Specifications for Road and Bridge Construction.

8.0 RETENTION POND FILL SUITABILITY

The soils encountered in Strata 1 and 2 soils (classified as A-3 and A-2-4 materials), as encountered throughout the 15-foot boring depths, are select soils and are satisfactory to use in the subgrade and embankment when utilized in accordance with Index 505. However, it should be noted that Stratum 2 soils are likely to retain excess moisture and be difficult to dry and compact.

9.0 LIMITATIONS

Our geotechnical exploration has been performed, our findings obtained, and our recommendations prepared in accordance with generally accepted geotechnical engineering principles and practices. This company is not responsible for any independent conclusions, interpretation, opinions or recommendations made by others based on the data contained in this report.

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This report does not reflect any variations which may occur adjacent to or between the borings. The discovery of any site or subsurface condition during construction which deviate from the data obtained during this geotechnical exploration should be reported to us for our evaluation. Also, in the event of any change to the supplied fill/cut conditions, roadway alignment, please contact us so that we can review our recommendations.

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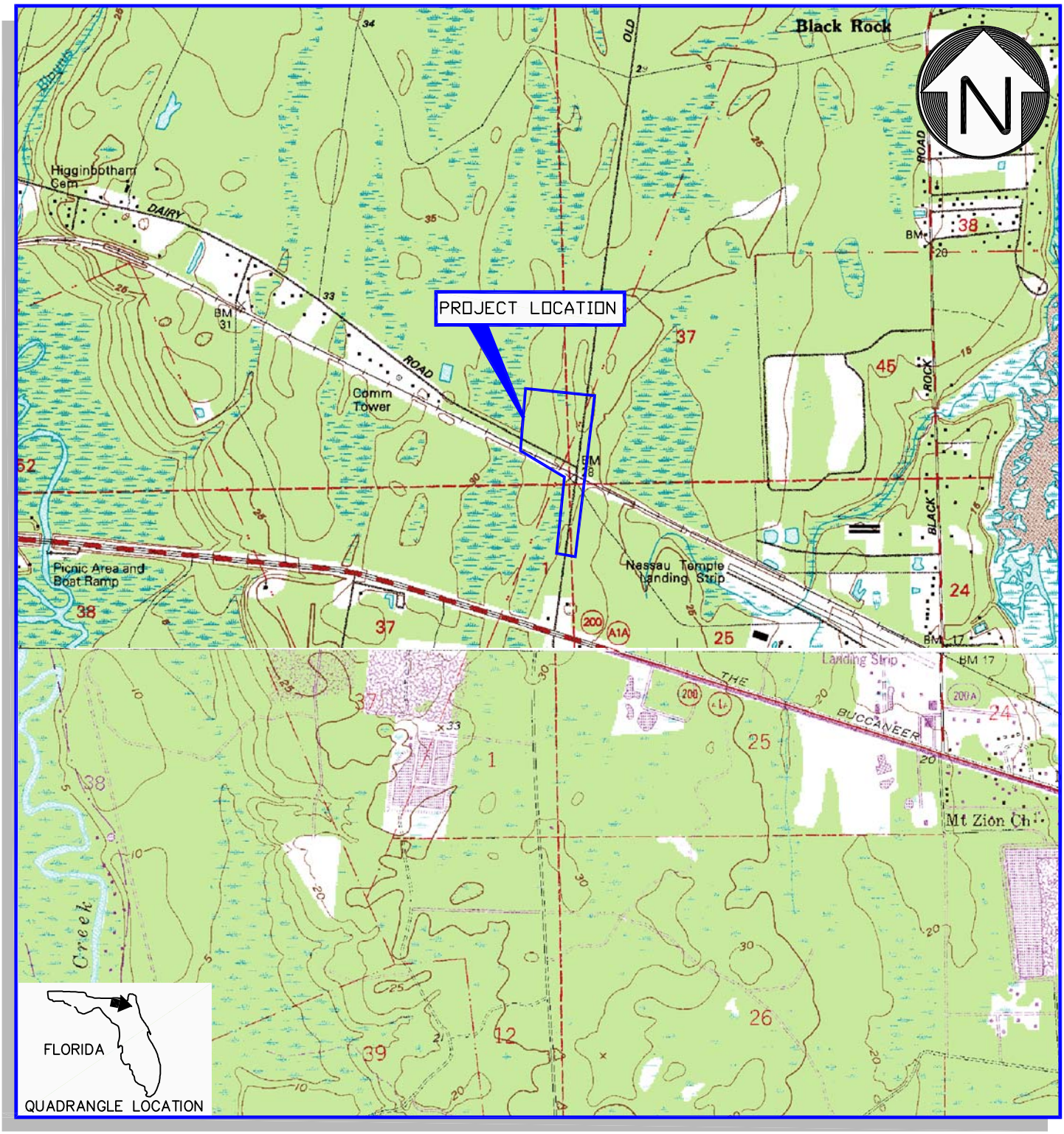
APPENDIX A

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USGS SITE LOCATION MAP

USDA SCS SOIL SURVEY MAP

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REFERENCE: TOPOGRAPHIC MAP
ST. MARY'S QUADRANGLE; FLORIDA
DATED: 1993
HEDGES QUADRANGLE; FLORIDA
DATED: 1992
U.S. GEOLOGICAL SURVEY

0 1,000' 2,000'
GRAPHIC SCALE

UNIVERSAL ENGINEERING SCIENCES, INC.
5561 FLORIDA MINING BOULEVARD SOUTH
JACKSONVILLE, FL 32257
(904) 296-0757

SITE LOCATION MAP

PAGES DAIRY/CHESTER ROAD INTERSECTION
NASSAU COUNTY, FLORIDA

DRAWN: TW	DATE:11/20/20	SCALE: 1" = 2,000'
CHECKED:PM	PROJ. NO.0930.2000217.0000	Figure A-1

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Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
9	Leon fine sand, 0 to 2 percent slopes	2.6	8.4%
24	Kingsferry fine sand	6.1	19.6%
27	Ridgewood fine sand, 0 to 5 percent slopes	21.1	67.4%
39	Evergreen-Leon mucks, depressional	1.4	4.6%
Totals for Area of Interest		**31.3**	**100.0%**

REFERENCE: WEB SOIL SURVEY
http://websoilsurvey.nrcs.usda.gov/
NASSAU COUNTY, FLORIDA

0 250' 500'
GRAPHIC SCALE

UNIVERSAL ENGINEERING SCIENCES, INC.
5561 FLORIDA MINING BOULEVARD SOUTH
JACKSONVILLE, FL 32257
(904) 296-0757

USDA SCS SOIL SURVEY MAP
PAGES DAIRY/CHESTER ROAD INTERSECTION
NASSAU COUNTY, FLORIDA

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APPENDIX B

UNIVERSAL
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INDEX TESTING SOIL SURVEY

ROADWAY SOIL PROFILE SHEET

POND SOIL PROFILES

FIELD EXPLORATION PROCEDURES

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DATE OF RECENT SURVEY: OCTOBER, 2020

RECENT SURVEY MADE BY: UNIVERSAL ENGINEERING SCIENCES, INC.
SUBMITTED BY: STEPHEN R. WEAVER, P.E.

DATE OF PREVIOUS SURVEY: NOVEMBER, 2017

RECENT SURVEY MADE BY: UNIVERSAL ENGINEERING SCIENCES, INC.
SUBMITTED BY: STEPHEN R. WEAVER, P.E.

NASSAU COUNTY

FINANCIAL PROJECT ID : N/A

PROJECT NAME: PAGES DAIRY AND CHESTER ROAD INTERSECTION

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADS

PAIGES DAIRY ROAD SURVEY BEGINS STA.: 236+90 SURVEY ENDS STA.: 195+00
CHESTER ROAD SURVEY BEGINS STA.: 220+00 SURVEY ENDS STA.: 239+33.87
REFERENCE : BL SURVEY

DISTRICT: 2
ROAD NO.: PAGES DAIRY/CHESTER ROAD
COUNTY: NASSAU

	ORGANIC CONTENT		MOISTURE CONTENT		SIEVE ANALYSIS RESULTS PERCENTAGE PASSING						ATTERBERG LIMITS (%)			SOIL CLASSIFICATION	
STRATUM NO.	NO. OF TESTS	% ORGANIC	NO. OF TESTS	% MOISTURE	NO. OF TESTS	10 MESH	40 MESH	60 MESH	100 MESH	200 MESH	NO. OF TESTS	LIQUID LIMIT	PLASTICITY INDEX	AASHTO GROUP	DESCRIPTION
1	0	-	12	16-32	9	100	99-100	97-99	44-53	1-8	0	-	-	A-3	Fine SAND, fine SAND with Silt; fine SAND with Clay.
2	0	-	2	11-26	1	98	97	95	61	10-11	0	-	-	A-2-4	Fine SAND with Silt

NOTES:

1. SOIL BOUNDARIES ARE APPROXIMATE AND REPRESENT SOIL STRATA AT EACH BORING LOCATION ONLY. SOIL SURVEY SHEET CONTAINS INFORMATION PERFORMED BY UNIVERSAL ENGINEERING SCIENCES.

2. THE MATERIAL FROM STRATA 1 AND 2 IS SELECT MATERIAL AND APPEARS SATISFACTORY FOR USE IN THE SUBGRADE AND EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH INDEX NO. 505. HOWEVER, THE MATERIAL IN STRATUM 2 MAY RETAIN EXCESS MOISTURE AND BE DIFFICULT TO DRY AND COMPACT. IT SHOULD BE USED IN EMBANKMENT ABOVE WATER LEVEL EXISTING AT THE TIME OF CONSTRUCTION.

3. THE DATA PRESENTED ON THIS ROADWAY SOIL SURVEY SHEET IS SPECIFIC ONLY AT THE LOCATIONS TESTED AND MAY NOT REPRESENT THE RANGE OF VALUES THAT MAY BE ENCOUNTERED. SHOULD QUESTIONS ARISE REGARDING THE SUBSURFACE CONDITIONS. IT IS INCUMBENT UPON THE INDIVIDUAL RAISING THE QUESTION TO PERFORM ADDITIONAL SUBSURFACE EXPLORATION AND TESTING AS NECESSARY TO ADDRESS SUCH QUESTIONS.

4. TEMPORARY LOWERING OF GROUNDWATER (DEWATERING) MAY BE NECESSARY AT SOME LOCATIONS THAT REQUIRE DEEP CUTS.

5. THE SYMBOL "-" REPRESENTS AN UNTESTED PARAMETER.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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5561 FLORIDA MINING BLVD. S.
JACKSONVILLE, FLORIDA 32257
CERTIFICATE OF AUTHORIZATION 00000549

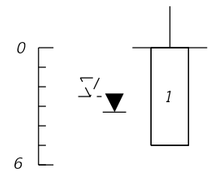
NASSAU COUNTY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
PAGES DAIRY CHESTER ROAD	NASSAU	N/A

SOIL SURVEY SHEET

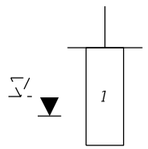
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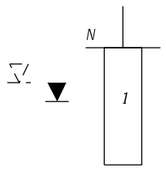
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DATE 11/8/2017
DRILLER S. TORRES



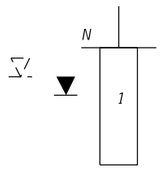
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DATE 11/8/2017
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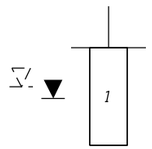
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DATE 11/5/20
DRILLER B. TRUITT



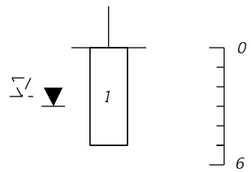
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DATE 11/5/20
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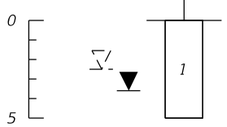
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DATE 11/8/2017
DRILLER S. TORRES



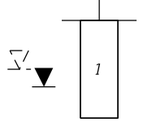
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DATE 11/8/2017
DRILLER S. TORRES



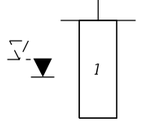
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DATE 11/8/2017
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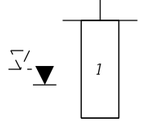
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DATE 11/8/2017
DRILLER S. TORRES



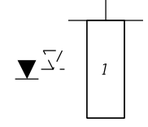
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DATE 11/8/2017
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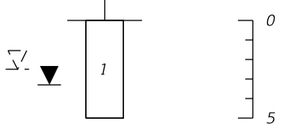
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DATE 11/8/2017
DRILLER S. TORRES



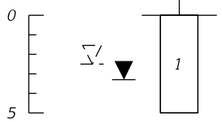
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DATE 11/17/2017
DRILLER S. TORRES



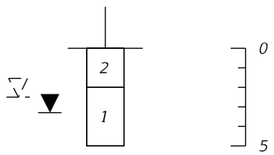
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DATE 11/17/2017
DRILLER S. TORRES



STA. 247+45 PAGES DAIRY BL SURVEY
OFF. 13' LT
DATE 11/17/2017
DRILLER S. TORRES



STA. 247+45 PAGES DAIRY BL SURVEY
OFF. 13' RT
DATE 11/17/2017
DRILLER S. TORRES



LEGEND

1	Fine SAND, fine SAND with Silt, fine SAND with Clay (A-3)
2	Fine SAND with Silt (A-2-4)
▼	Water Table Elevation
	Estimated Seasonal High Groundwater Level
GNE	Groundwater Level Not Encountered

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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NASSAU COUNTY

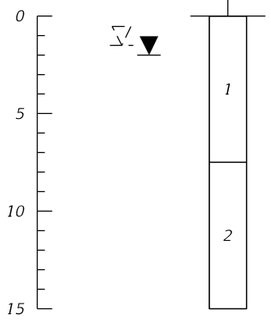
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
PAGES DAIRY CHESTER ROAD	NASSAU	N/A

ROADWAY SOIL PROFILES

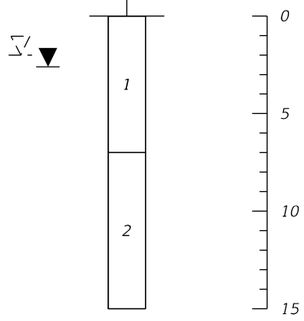
SHEET NO.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

STA. 189+00 CHESTER RD BL SURVEY
OFF. 220' LT
DATE 11/17/2017
DRILLER B. TRUITT



STA. 190+00 CHESTER RD BL SURVEY
OFF. 220' LT
DATE 11/10/2017
DRILLER B. TRUITT



LEGEND

1	Fine SAND, fine SAND with Silt, fine SAND with Clay (A-3)
2	Fine SAND with Silt (A-2-4)
▼	Water Table Elevation
▽	Estimated Seasonal High Groundwater Level
GNE	Groundwater Level Not Encountered

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEPHEN R. WEAVER, P.E.
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UNIVERSAL ENGINEERING SCIENCES, INC.
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JACKSONVILLE, FLORIDA 32257
CERTIFICATE OF AUTHORIZATION 00000549

NASSAU COUNTY

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
PAGES DAIRY CHESTER ROAD	NASSAU	N/A

ROADWAY SOIL PROFILES

SHEET NO.

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FIELD EXPLORATION PROCEDURES

Auger Borings

The auger borings were performed mechanically by the use of a continuous-flight auger attached to the drill rig and in general accordance with the latest revision of ASTM D 1452, "Soil Investigation and Sampling by Auger Borings". Representative samples of the soils brought to the ground surface by the augering process were placed in glass jars, sealed and transported to our laboratory where they were examined by our engineer to verify the driller's field classification.

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APPENDIX C

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SUMMARY OF CLASSIFICATION AND INDEX TESTING LABORATORY TEST PROCEDURES

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UNIVERSAL ENGINEERING SCIENCES
Consultants In: Geotechnical Engineering • Environmental Sciences
Geophysical Services • Materials Testing • Threshold Inspection
Building Code Administration, Compliance Inspection & Plan Review

Project: Pages Dairy Road & Chester Road Interesection Improvements
UES Report #: 1510770v2
Nassau County, Florida

SUMMARY OF LABORATORY CLASSIFICATION RESULTS

Station	Offset (ft)	Sample Depth (ft)	AASHTO Group	Stratum Number	% Passing Sieve						Natural Moisture Content (Percent)
					4	10	40	60	100	200	
237+90 (Chester Rd)	45 RT	3.25-3.75	A-3	1	100	100	99.9	98.8	52.5	2.4	29.3
246+00 (Chester Rd)	25 LT	4.25-4.75	A-3	1	100	100	99.6	97.1	48.8	7.4	25.8
186+30 (Chester Rd)	25 LT	3.75-4.25	A-3	1	100	100	100	98.2	44.1	2.5	22.2
189+00 (Chester Rd)	220 LT	3.25-3.75	A-3	1	-	-	-	-	-	5.1	30.1
		6.5-7.0	A-3	1	-	-	-	-	-	6.1	31.4
190+00 (Chester Rd)	220 LT	4.25-4.75	A-3	1	-	-	-	-	-	2.8	23.3
		13.25-13.75	A-2-4	2	-	-	-	-	-	10.9	25.2
192+85 (Chester Rd)	20 LT	3.0-3.5	A-3	1	100	100	99.9	97.0	47.5	4.2	21.4
244+70 (Pages Dairy)	13 RT	2.0-2.5	A-3	1	100	100	99.9	98.3	51.6	2.7	16.2
247+45 (Pages Dairy)	13 RT	0.5-1.0	A-2-4	2	98.9	98.2	97.3	95.3	61.0	10.9	11.8
242+42 (Chester Rd)	42 LT	0.5-1.0	A-3	1	100	100	99.9	97.7	50.4	6.0	19.3
		2.0-2.5	A-3	1	100	100	99.9	97.8	49.5	4.3	19.2
		3.0-4.0	A-3	1	100	100	99.9	97.9	49.0	2.4	24.9
242+67 (Chester Rd)	33 RT	3.5-4.5	A-3	1	100	100	100	98.3	50.3	3.3	22.8

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LABORATORY TESTING PROCEDURES

Natural Moisture Content

The water content of the sample tested was determined in general accordance with the latest revision of ASTM D 2216. The water content is defined as the ratio of "pore" or "free" water in a given mass of material to the mass of solid material particles.

Percent Fines Content

The percent fines or material passing the No. 200 mesh sieve of the sample tested was determined in general accordance with the latest revision of ASTM D 1140. The percent fines are the soil particles in the silt and clay size range.

Grain Size Distribution

The grain size tests were performed to determine the particle size and distribution of the sample tested. The sample was dried, weighed and washed over a No. 200 mesh sieve. The dried sample was then passed through a standard set of nested sieves to determine the grain size distribution of the soils particles coarser than the No. 200 sieve. This test is similar to that described by ASTM D-422.

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APPENDIX D

UNIVERSAL
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GBC DOCUMENT

CONSTRAINTS AND RESTRICTIONS

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Important Information about Your

Geotechnical Engineering Report

Subsurface problems are a principal cause of construction delays, cost overruns, claims, and disputes.

While you cannot eliminate all such risks, you can manage them. The following information is provided to help.

Geotechnical Services Are Performed for Specific Purposes, Persons, and Projects

Geotechnical engineers structure their services to meet the specific needs of their clients. A geotechnical engineering study conducted for a civil engineer may not fulfill the needs of a construction contractor or even another civil engineer. Because each geotechnical engineering study is unique, each geotechnical engineering report is unique, prepared *solely* for the client. No one except you should rely on your geotechnical engineering report without first conferring with the geotechnical engineer who prepared it. *And no one — not even you* — should apply the report for any purpose or project except the one originally contemplated.

Read the Full Report

Serious problems have occurred because those relying on a geotechnical engineering report did not read it all. Do not rely on an executive summary. Do not read selected elements only.

A Geotechnical Engineering Report Is Based on A Unique Set of Project-Specific Factors

Geotechnical engineers consider a number of unique, project-specific factors when establishing the scope of a study. Typical factors include: the client's goals, objectives, and risk management preferences; the general nature of the structure involved, its size, and configuration; the location of the structure on the site; and other planned or existing site improvements, such as access roads, parking lots, and underground utilities. Unless the geotechnical engineer who conducted the study specifically indicates otherwise, do not rely on a geotechnical engineering report that was:

- not prepared for you,
- not prepared for your project,
- not prepared for the specific site explored, or
- completed before important project changes were made.

Typical changes that can erode the reliability of an existing geotechnical engineering report include those that affect:

- the function of the proposed structure, as when it's changed from a parking garage to an office building, or from a light industrial plant to a refrigerated warehouse,
- elevation, configuration, location, orientation, or weight of the proposed structure,
- composition of the design team, or
- project ownership.

As a general rule, *always* inform your geotechnical engineer of project changes—even minor ones—and request an assessment of their impact. *Geotechnical engineers cannot accept responsibility or liability for problems that occur because their reports do not consider developments of which they were not informed.*

Subsurface Conditions Can Change

A geotechnical engineering report is based on conditions that existed at the time the study was performed. *Do not rely on a geotechnical engineering report* whose adequacy may have been affected by: the passage of time; by man-made events, such as construction on or adjacent to the site; or by natural events, such as floods, earthquakes, or groundwater fluctuations. *Always* contact the geotechnical engineer before applying the report to determine if it is still reliable. A minor amount of additional testing or analysis could prevent major problems.

Most Geotechnical Findings Are Professional Opinions

Site exploration identifies subsurface conditions only at those points where subsurface tests are conducted or samples are taken. Geotechnical engineers review field and laboratory data and then apply their professional judgment to render an opinion about subsurface conditions throughout the site. Actual subsurface conditions may differ—sometimes significantly—from those indicated in your report. Retaining the geotechnical engineer who developed your report to provide construction observation is the most effective method of managing the risks associated with unanticipated conditions.

A Report's Recommendations Are *Not* Final

Do not overrely on the construction recommendations included in your report. *Those recommendations are not final,* because geotechnical engineers develop them principally from judgment and opinion. Geotechnical engineers can finalize their recommendations only by observing actual

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subsurface conditions revealed during construction. *The geotechnical engineer who developed your report cannot assume responsibility or liability for the report's recommendations if that engineer does not perform construction observation.*

A Geotechnical Engineering Report Is Subject to Misinterpretation

Other design team members' misinterpretation of geotechnical engineering reports has resulted in costly problems. Lower that risk by having your geotechnical engineer confer with appropriate members of the design team after submitting the report. Also retain your geotechnical engineer to review pertinent elements of the design team's plans and specifications. Contractors can also misinterpret a geotechnical engineering report. Reduce that risk by having your geotechnical engineer participate in prebid and preconstruction conferences, and by providing construction observation.

Do Not Redraw the Engineer's Logs

Geotechnical engineers prepare final boring and testing logs based upon their interpretation of field logs and laboratory data. To prevent errors or omissions, the logs included in a geotechnical engineering report should *never* be redrawn for inclusion in architectural or other design drawings. Only photographic or electronic reproduction is acceptable, *but recognize that separating logs from the report can elevate risk.*

Give Contractors a Complete Report and Guidance

Some owners and design professionals mistakenly believe they can make contractors liable for unanticipated subsurface conditions by limiting what they provide for bid preparation. To help prevent costly problems, give contractors the complete geotechnical engineering report, *but* preface it with a clearly written letter of transmittal. In that letter, advise contractors that the report was not prepared for purposes of bid development and that the report's accuracy is limited; encourage them to confer with the geotechnical engineer who prepared the report (a modest fee may be required) and/or to conduct additional study to obtain the specific types of information they need or prefer. A prebid conference can also be valuable. *Be sure contractors have sufficient time* to perform additional study. Only then might you be in a position to give contractors the best information available to you, while requiring them to at least share some of the financial responsibilities stemming from unanticipated conditions.

Read Responsibility Provisions Closely

Some clients, design professionals, and contractors do not recognize that geotechnical engineering is far less exact than other engineering disciplines. This lack of understanding has created unrealistic expectations that have led to disappointments, claims, and disputes. To help reduce the risk of such outcomes, geotechnical engineers commonly include a variety of explanatory provisions in their reports. Sometimes labeled "limitations" many of these provisions indicate where geotechnical engineers' responsibilities begin and end, to help others recognize their own responsibilities and risks. *Read these provisions closely.* Ask questions. Your geotechnical engineer should respond fully and frankly.

Geoenvironmental Concerns Are Not Covered

The equipment, techniques, and personnel used to perform a *geoenvironmental* study differ significantly from those used to perform a *geotechnical* study. For that reason, a geotechnical engineering report does not usually relate any geoenvironmental findings, conclusions, or recommendations; e.g., about the likelihood of encountering underground storage tanks or regulated contaminants. *Unanticipated environmental problems have led to numerous project failures.* If you have not yet obtained your own geoenvironmental information, ask your geotechnical consultant for risk management guidance. *Do not rely on an environmental report prepared for someone else.*

Obtain Professional Assistance To Deal with Mold

Diverse strategies can be applied during building design, construction, operation, and maintenance to prevent significant amounts of mold from growing on indoor surfaces. To be effective, all such strategies should be devised for the *express purpose* of mold prevention, integrated into a comprehensive plan, and executed with diligent oversight by a professional mold prevention consultant. Because just a small amount of water or moisture can lead to the development of severe mold infestations, a number of mold prevention strategies focus on keeping building surfaces dry. While groundwater, water infiltration, and similar issues may have been addressed as part of the geotechnical engineering study whose findings are conveyed in this report, the geotechnical engineer in charge of this project is not a mold prevention consultant; ***none of the services performed in connection with the geotechnical engineer's study were designed or conducted for the purpose of mold prevention. Proper implementation of the recommendations conveyed in this report will not of itself be sufficient to prevent mold from growing in or on the structure involved.***

Rely, on Your ASFE-Member Geotechncial Engineer for Additional Assistance

Membership in ASFE/The Best People on Earth exposes geotechnical engineers to a wide array of risk management techniques that can be of genuine benefit for everyone involved with a construction project. Confer with your ASFE-member geotechnical engineer for more information.

ASFE THE GEOPROFESSIONAL BUSINESS ASSOCIATION

8811 Colesville Road/Suite G106, Silver Spring, MD 20910
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e-mail: info@asfe.org www.asfe.org

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CONSTRAINTS & RESTRICTIONS

The intent of this document is to bring to your attention the potential concerns and the basic limitations of a typical geotechnical report.

WARRANTY

Universal Engineering Sciences has prepared this report for our client for his exclusive use, in accordance with generally accepted soil and foundation engineering practices, and makes no other warranty either expressed or implied as to the professional advice provided in the report.

UNANTICIPATED SOIL CONDITIONS

The analysis and recommendations submitted in this report are based upon the data obtained from soil borings performed at the locations indicated on the Boring Location Plan. This report does not reflect any variations which may occur between these borings.

The nature and extent of variations between borings may not become known until excavation begins. If variations appear, we may have to re-evaluate our recommendations after performing on-site observations and noting the characteristics of any variations.

CHANGED CONDITIONS

We recommend that the specifications for the project require that the contractor immediately notify Universal Engineering Sciences, as well as the owner, when subsurface conditions are encountered that are different from those present in this report.

No claim by the contractor for any conditions differing from those anticipated in the plans, specifications, and those found in this report, should be allowed unless the contractor notifies the owner and Universal Engineering Sciences of such changed conditions. Further, we recommend that all foundation work and site improvements be observed by a representative of Universal Engineering Sciences to monitor field conditions and changes, to verify design assumptions and to evaluate and recommend any appropriate modifications to this report.

MISINTERPRETATION OF SOIL ENGINEERING REPORT

Universal Engineering Sciences is responsible for the conclusions and opinions contained within this report based upon the data relating only to the specific project and location discussed herein. If the conclusions or recommendations based upon the data presented are made by others, those conclusions or recommendations are not the responsibility of Universal Engineering Sciences.

CHANGED STRUCTURE OR LOCATION

This report was prepared in order to aid in the evaluation of this project and to assist the architect or engineer in the design of this project. If any changes in the design or location of the structure as outlined in this report are planned, or if any structures are included or added that are not discussed in the report, the conclusions and recommendations contained in this report shall not be considered valid unless the changes are reviewed and the conclusions modified or approved by Universal Engineering Sciences.

USE OF REPORT BY BIDDERS

Bidders who are examining the report prior to submission of a bid are cautioned that this report was prepared as an aid to the designers of the project and it may affect actual construction operations.

Bidders are urged to make their own soil borings, test pits, test caissons or other investigations to determine those conditions that may affect construction operations. Universal Engineering Sciences cannot be responsible for any interpretations made from this report or the attached boring logs with regard to their adequacy in reflecting subsurface conditions which will affect construction operations.

STRATA CHANGES

Strata changes are indicated by a definite line on the boring logs which accompany this report. However, the actual change in the ground may be more gradual. Where changes occur between soil samples, the location of the change must necessarily be estimated using all available information and may not be shown at the exact depth.

OBSERVATIONS DURING DRILLING

Attempts are made to detect and/or identify occurrences during drilling and sampling, such as: water level, boulders, zones of lost circulation, relative ease or resistance to drilling progress, unusual sample recovery, variation of driving resistance, obstructions, etc.; however, lack of mention does not preclude their presence.

WATER LEVELS

Water level readings have been made in the drill holes during drilling and they indicate normally occurring conditions. Water levels may not have been stabilized at the last reading. This data has been reviewed and interpretations made in this report. However, it must be noted that fluctuations in the level of the groundwater may occur due to variations in rainfall, temperature, tides, and other factors not evident at the time measurements were made and reported. Since the probability of such variations is anticipated, design drawings and specifications should accommodate such possibilities and construction planning should be based upon such assumptions of variations.

LOCATION OF BURIED OBJECTS

All users of this report are cautioned that there was no requirement for Universal Engineering Sciences to attempt to locate any man-made buried objects during the course of this exploration and that no attempt was made by Universal Engineering Sciences to locate any such buried objects. Universal Engineering Sciences cannot be responsible for any buried man-made objects which are subsequently encountered during construction that are not discussed within the text of this report.

TIME

This report reflects the soil conditions at the time of exploration. If the report is not used in a reasonable amount of time, significant changes to the site may occur and additional reviews may be required.

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REPORT OF A
GEOTECHNICAL EXPLORATION

Pages & Chester Road Mast Arms
Nassau County, Florida

UES Project No. 0930.2000217.0000
UES Report No. 1820442
November 24, 2020

Prepared for:

CONNELLY & WICKER, INC.
10060 Skinner Lake Drive – Suite 500
Jacksonville, Florida 32246

Prepared by:

UNIVERSAL ENGINEERING SCIENCES, INC.
5561 Florida Mining Boulevard South
Jacksonville, Florida 32257-3648
(904) 296-0757

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• Miami
• Ocala
• Palm Coast
• Panama City
• Pensacola
• Sarasota

November 24, 2020

Connelly & Wicker, Inc.
10060 Skinner Lake Drive – Suite 500
Jacksonville, Florida 32246

Attention: Mr. Danny Waltermyer, P.E.

Subject: **Report of a Geotechnical Exploration**
Pages Dairy and Chester Road Mast Arms
Nassau County, Florida
UES Project No. 0930.2000217.0000 and UES Report No. 1820442

Dear Mr. Waltermyer:

Universal Engineering Sciences, LLC (Universal) has completed a Geotechnical Report for proposed mast arm structures along Chester Road in Nassau County, Florida. Our scope was planned in conjunction with and authorized by you.

This report presents our understanding of the proposed construction, describes the field exploration and laboratory testing performed, presents the previous and recent data obtained and provides our geotechnical engineering evaluation of the subsurface conditions at the proposed mast arm locations.

We appreciate the opportunity to work with Connelly & Wicker Inc. on this project and look forward to a continued association. Please do not hesitate to contact us if you should have any questions, or if we may further assist you as your plans proceed.

Sincerely,

UNIVERSAL ENGINEERING SCIENCES, LLC.

STEPHEN R. WEAVER LICENSE No. 37389 STATE OF FLORIDA PROFESSIONAL ENGINEER

Stephen R. Weaver, P.E.
Geotechnical Services Manager
Florida P.E. No. 37389
Date: 11/24/20

Rayton W. Mann, E.I.
Project Engineer
Date: 11/24/20

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TABLE OF CONTENTS

1.0 INTRODUCTION 1

2.0 SCOPE OF SERVICES 2
2.1 PURPOSE 2
2.2 REVIEW OF AVAILABLE DATA 2
2.2.1 USGS Quadrangle Map 2
2.2.2 USDA SCS Soil Survey 2
2.2.3 Potentiometric Data 3
2.2.4 Florida Geology 3
2.3 FIELD INVESTIGATION 4

3.0 LABORATORY INVESTIGATION 4
3.1 VISUAL CLASSIFICATION 4
3.2 INDEX TESTS 4

4.0 FINDINGS 5
4.1 SURFACE CONDITIONS 5
4.2 SUBSURFACE CONDITIONS 5
4.3 GROUNDWATER CONDITIONS 5

5.0 DESIGN RECOMMENDATIONS 6
5.1 GENERAL 6
5.2 SOIL PARAMETERS 6
5.3 DRILLED SHAFT CONSTRUCTION RECOMMENDATIONS 6

6.0 LIMITATIONS 7

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TABLES

TABLE 1 Summary of Proposed Mast Arm Locations
TABLE 2 USDA SCS Soil Survey Information

APPENDICES

APPENDIX A
Site Location Map
USDA SCS Soil Survey Map
APPENDIX B
Report of Core Borings Sheets
Field Exploration Procedures
Laboratory Testing Procedures
APPENDIX C
Important Information about This Geotechnical Engineering Report
Constraints and Restrictions

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1.0 INTRODUCTION

In this report we present our recommendations regarding the geotechnical exploration performed for the three proposed mast arm structures at the intersection of David Hallman Parkway and Chester Road and three mast arm structures at the intersection of Pages Dairy Road and Chester Road in Nassau County, Florida. A summary of the proposed mast arm structures included in this exploration are summarized in Table 1 below.

Table 1. Summary of Proposed Mast Arm Locations.

Mast Arm No.	Station	Offset	Baseline
1	233+41.74	-54.8	Chester Road
2	234+53.16	59.7	Chester Road
3	233+44.62	61.8	Chester Road
4	249+03.64	-47.8	Chester Road
5	185+40.27	44.6	Chester Road
6	248+70.99	51.1	Chester Road

Project information was provided to us in discussions and emails from Mr. Danny Waltermyer, P.E. of Connelly & Wicker, Inc. (CW). We were provided with a copy of a site plan prepared by CW and a Signalization Plan provided by Peters and Yaffee, Inc. This plan shows the adjacent roadways and the proposed mast arm foundations with a summary of pole locations, station, and offsets.

An excerpt from the USGS quadrangle map of the project area appears on Figure A-1 in Appendix A.

Our recommendations are based upon the above considerations. Please inform Universal Engineering Sciences (Universal) if any of this information is incorrect or if you anticipate any changes so that we may review our recommendations.

This exploration was performed in accordance with accepted engineering practices and minimum standards established by the Florida Department of Transportation (FDOT), the Federal Highway Administration (FHWA), and American Association of State Highway and Transportation Officials (AASHTO). We have divided this report into the following sections:

- SCOPE OF SERVICES - Defines what we did;
- FINDINGS - Describes the field conditions encountered
- RECOMMENDATIONS - Describes what we encourage you do;
- LIMITATIONS - Describes the restrictions inherent in this report; and
- APPENDICES - Presents support materials referenced in this report.

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This report presents our understanding of the proposed mast arm foundation construction, describes the field exploration and laboratory testing performed, and provides our geotechnical engineering evaluation of the subsurface conditions in the areas of the proposed structures.

2.0 SCOPE OF SERVICES

2.1 PURPOSE

The purposes of this exploration were:

- to review published data such as previous geotechnical studies and borings performed for the project, USGS Topographic Quadrangle maps, USDA Soil Survey maps and geological literature;
- to perform borings to verify the general subsurface conditions at the proposed mast arm foundation locations;
- to interpret and review the subsurface conditions as obtained by our field personnel with respect to the proposed mast arm structures; and
- to provide geotechnical engineering recommendations for the proposed mast arm foundation construction.

This report presents an evaluation of site conditions on the basis of traditional geotechnical procedures for site characterization. The recovered samples were not examined, either visually or analytically, for chemical or environmental hazards.

2.2 REVIEW OF AVAILABLE DATA

2.2.1 USGS Quadrangle Map

The site is located on the USGS quadrangle map of St. Mary's Quadrangle and Hedges Quadrangle. This map indicates the natural ground surface elevation in the vicinity of the proposed structures are approximately EL. +30 feet, NGVD. An excerpt from the USGS map for the project location is shown on Figure A-1 in Appendix A.

2.2.2 USDA SCS Soil Survey

The predominant surficial soil types were identified using the online Web Soil Survey for Nassau County as prepared by USDA Natural Resources Conservation Service. The majority of the surficial soils may be classified as shown on Table 2 below.

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Table 2. Summary of USDA SCS Soil Survey

Soil Type	Constituents		Natural Drainage	Seasonal High Water Table (inches)
Leon (9)	0-18” 18-80”	Fine sand Fine sand, loamy fine sand	Poorly Drained	0.5-1.5
Kingsferry (24)	0-34” 34-67” 67-80”	Fine sand Sand, fine sand, loamy fine sand Sand, fine sand	Very Poorly Drained	0.0
Ridgewood (27)	0-7” 7-80”	Fine sand Sand, fine sand	Somewhat Poorly Drained	1.5 – 3.5

An excerpt of the Soil Survey Map is included as Figure A-2 in Appendix A. It should be noted that deeper groundwater levels were recorded at the boring locations than indicated by the soil survey, due to the existing embankments and drainage features.

2.2.3 Potentiometric Data

The limestone underlying the Hawthorne soils comprises the Floridian Aquifer, which is the main source of potable and irrigation water in northern Florida. After reviewing the U.S. Geological Survey map entitled “Potentiometric Surface of the Upper Floridan Aquifer in the St. Johns River Water Management District and Vicinity, Florida, May 2009", the potentiometric level at the subject site is estimated to be at an elevation of approximately +26 feet, NGVD.

2.2.4 Florida Geology

Nassau County is considered to be part of the Paleozoic to Recent Age. The sediments of the Paleozoic Age consist of carbonate sediments that have stratified layers approximately 1,000 feet thick. The material of Recent and Pliestocene Age are composed of quartz, sand, clay and shell, which are considered alluvial material. The upper part of the formation consists of unconsolidated sediments, such as shelly sand and clay. This material is underlain by the Hawthorn formation and extends to the upper part of the limestone in the Floridian Aquifer.

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2.3 FIELD INVESTIGATION

Universal performed six (6) Standard Penetration Test (SPT) borings at the locations of the proposed mast arm foundations. The borings were performed to depths of approximately 25 to 30 feet below the existing ground surface. Due to the potential presence of underground utilities in the majority of the site, the upper 4.5 feet of boring B-1 was explored using manual auger equipment and a static cone penetrometer. The locations of the borings are indicated on the Report of Core Boring sheets in Appendix B.

Our field personnel visually inspected the recovered soil samples, and recorded their observations on field logs. Representative portions of each soil sample were placed in sealed containers for transportation to our Jacksonville office. Stabilized groundwater levels were measured and recorded on the field logs. Upon completion, the bore holes were backfilled with soil cuttings to the existing ground surface.

The Report of Core Borings sheets are included in Appendix B. The stratification lines on the boring records represent the approximate boundary between soil types, as determined in the field by our drillers. The transition between soil types at each boring location may be gradual. A more detailed description of the drilling and sampling techniques used is provided on the Field Exploration Procedures Sheet in Appendix B.

3.0 LABORATORY INVESTIGATION

3.1 VISUAL CLASSIFICATION

Representative soil samples obtained during our recent field exploration were placed in sealed containers and transported to our laboratory for further visual examination and classification. The soil samples were visually classified in general accordance with the Unified Soil Classification System (USCS). A summary of the resulting soil descriptions is shown on the Report of Core Borings sheets in Appendix B.

3.2 INDEX TESTS

Quantitative laboratory testing was performed on selected samples of the soils encountered in the field exploration. The laboratory testing was performed to better define the composition of the soils encountered and to provide data for correlation to their anticipated strength and compressibility characteristics. The results of the laboratory testing are presented in Appendix B on the Report of Core Borings sheets at the appropriate depths. A brief description of the test methods used is presented in the Laboratory Test Procedures Section of Appendix B.

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4.0 FINDINGS

4.1 SURFACE CONDITIONS

At the time of our site visit, the proposed construction area was developed with maintained grass and sidewalks with the existing Chester Road, Pages Dairy Road, and David Hallman Parkway and associated embankments. Surface water was not encountered at the boring locations.

4.2 SUBSURFACE CONDITIONS

The boring logs and related information included in this report are indicators of subsurface conditions only at the specific boring locations at the time of our field exploration. Subsurface conditions, including groundwater levels, at other locations of the subject site may differ from conditions we encountered at the boring locations. Moreover, conditions at the boring locations can change over time. Groundwater levels fluctuate seasonally and soil conditions can be altered by earth moving operations. It should also be noted that the soil classifications and descriptions are generally based upon visual characteristics of the recovered soil samples and a limited number of laboratory tests.

The borings at the intersection of Pages Dairy and Chester Road generally encountered loose to medium dense fine sand and fine sand with silt (SP, SP-SM) in the upper 12 to 13 feet. Dense to very dense fine sand (SP) and fine sand with silt and hardpan (SP-SM) was then encountered to depths of 18 feet. Loose to medium dense fine sand, fine sand with silt, and fine sand with clay (SP, SP-SM, SP-SC) with few very loose zones then extended to the deepest boring termination depth of 30 feet below existing grade.

The borings at the intersection of David Hallman Parkway and Chester Road generally encountered loose to very loose fine sand and fine sand with silt (SP, SP-SM) in the upper 10 to 18 feet. Medium dense fine sand (SP) then extended to the deepest boring termination depth of 25 feet below existing grade.

For a more detailed description of the soils encountered, please see the Report of Core Borings sheets included in Appendix B.

4.3 GROUNDWATER CONDITIONS

The measured groundwater levels for each boring are shown on the Report of Core Borings sheets in Appendix B. It should be anticipated that the groundwater level will fluctuate due to seasonal climatic variations, surface water runoff patterns, construction operations, ditches, and other interrelated factors.

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5.0 DESIGN RECOMMENDATIONS

5.1 GENERAL

Our geotechnical engineering evaluation of the subsurface conditions with respect to the foundation construction of the planned mast arm structures is based on (1) our site observations, (2) the field data obtained, and (3) our understanding of the project information as presented in this report. Should the location of the proposed structures be changed, please contact us so that we can review our recommendations. The discovery of any site or subsurface conditions during construction which deviate from the data obtained during this geotechnical exploration should also be reported to us for our evaluation.

Based on the project information provided, it is anticipated the proposed mast arm structures will be supported on drilled shaft foundations. The design of the foundations should include a lateral load, an axial load, and a torsional capacity analysis.

5.2 SOIL PARAMETERS

For design purposes, the mast arm foundations should be designed utilizing soil parameters for a sandy soil with a friction angle of 30 degrees. A total unit weight of 105 pounds per cubic foot should be used for soils encountered at the site, and an effective unit weight of 50 pounds per cubic foot should be used for soils below the natural ground surface. Average N-values ranged from 8 to 16 were encountered at all boring locations. The average N-values were obtained using weighted averages of N-values obtained from the automatic hammer and correlated N-values from the static cone penetrometer readings. We recommend the groundwater level be assumed at approximately one foot above the measured groundwater level for design purposes.

The results of our borings indicate that the soils encountered appear suitable for constructing a drilled shaft foundation for the proposed mast arm structures. The soil conditions encountered at the boring locations met the requirements for standard mast arm design in accordance with FDOT criteria of friction angle of 30 degrees and effective unit weight of 50 pounds per cubic foot. Therefore, the standard design for mast arm foundations may be utilized.

5.3 DRILLED SHAFT CONSTRUCTION RECOMMENDATIONS

The installation of the drilled shaft foundations should be in accordance with FDOT Standard Specifications for Road and Bridge Construction (current edition), 455 (Structures Foundations. It should be noted that, due to the presence of cemented sandy soils (hardpan), difficult excavation operations may occur during the installation of the drilled shafts.

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6.0 LIMITATIONS

During the early stages of most construction projects, geotechnical issues not addressed in this report may arise. Because of the natural limitations inherent in working with the subsurface, it is not possible for a geotechnical engineer to predict and address all possible problems. Geotechnical Business Council publication, “Important Information about This Geotechnical Engineering Report” appears in Appendix C and will help explain the nature of geotechnical issues.

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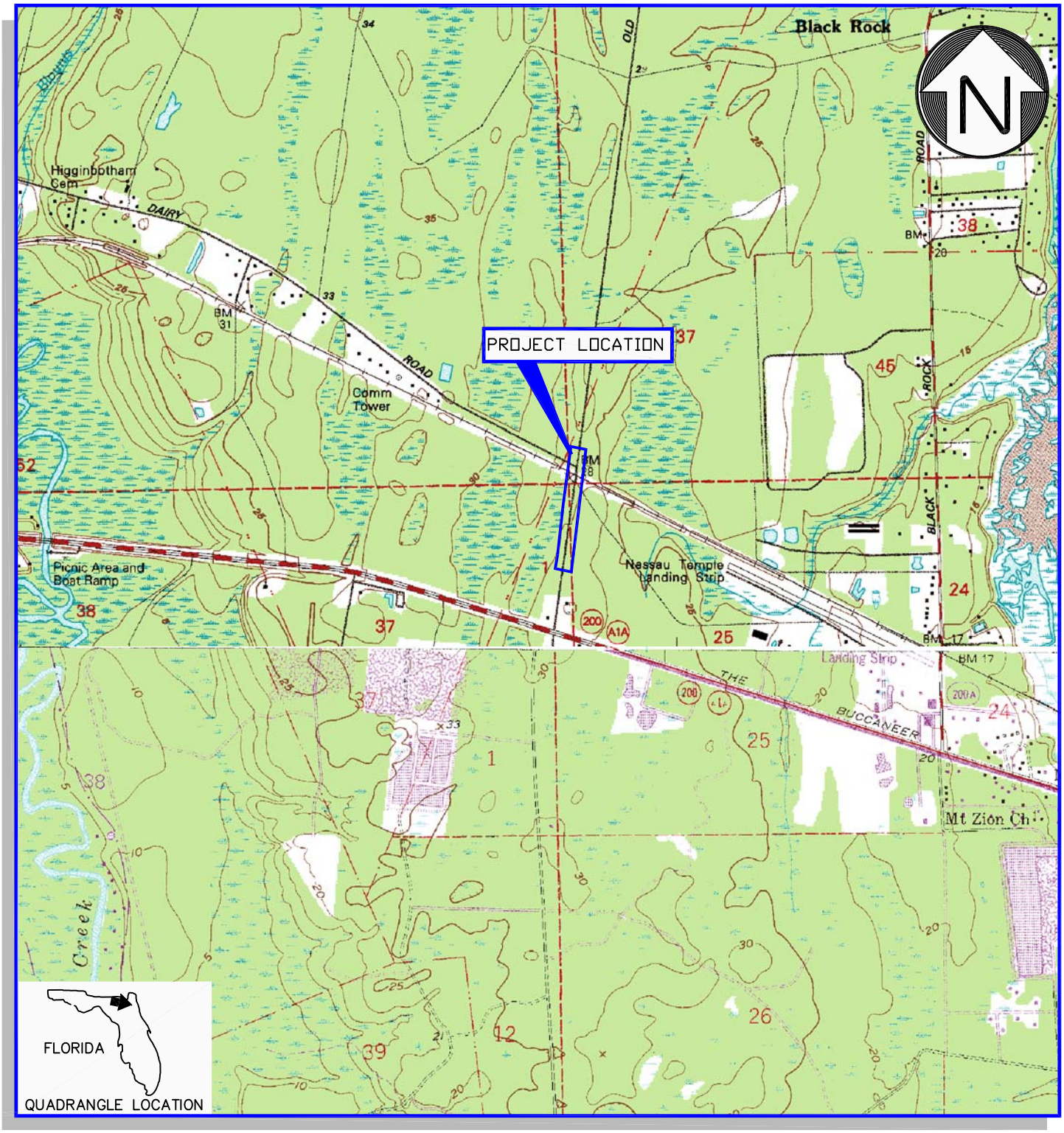
APPENDIX A

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USGS SITE LOCATION MAP

USDA SCS SOIL SURVEY MAP

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REFERENCE: TOPOGRAPHIC MAP
ST. MARY'S QUADRANGLE; FLORIDA
DATED: 1993
HEDGES QUADRANGLE; FLORIDA
DATED: 1992
U.S. GEOLOGICAL SURVEY

0 1,000' 2,000'
GRAPHIC SCALE

UNIVERSAL ENGINEERING SCIENCES, INC.
5561 FLORIDA MINING BOULEVARD SOUTH
JACKSONVILLE, FL 32257
(904) 296-0757

SITE LOCATION MAP
PAGES DAIRY/CHESTER ROAD INTERSECTION
NASSAU COUNTY, FLORIDA

DRAWN: TW	DATE:11/20/20	SCALE: 1" = 2,000'
CHECKED:PM	PROJ. NO.0930.2000288.0000	Figure A-1

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Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
9	Leon fine sand, 0 to 2 percent slopes	1.4	19.9%
24	Kingsferry fine sand	1.0	13.5%
27	Ridgewood fine sand, 0 to 5 percent slopes	4.8	66.6%
Totals for Area of Interest		7.2	100.0%

REFERENCE: WEB SOIL SURVEY
http://websoilsurvey.nrcs.usda.gov/
NASSAU COUNTY, FLORIDA

0 200' 400'
GRAPHIC SCALE

UNIVERSAL ENGINEERING SCIENCES, INC.
5561 FLORIDA MINING BOULEVARD SOUTH
JACKSONVILLE, FL 32257
(904) 296-0757

USDA SCS SOIL SURVEY MAP
PAGES DAIRY/CHESTER ROAD INTERSECTION
NASSAU COUNTY, FLORIDA

DRAWN: TW	DATE:11/20/20	SCALE: 1" = 400'
CHECKED: PM	PROJ. NO.0930.2000288.0000	Figure A-2

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APPENDIX B

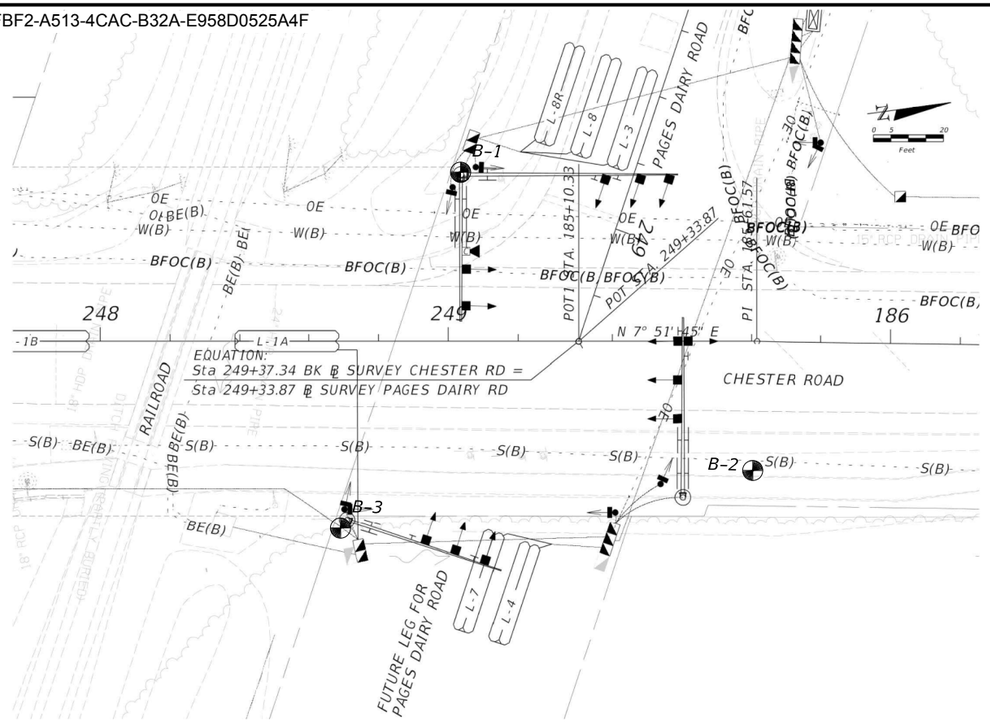
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REPORT OF CORE BORINGS SHEET

FIELD EXPLORATION PROCEDURES

LABORATORY TESTING PROCEDURES

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WITH RELATIVE DENSITY AND CONSISTENCY OF SOIL USING AUTOMATIC HAMMER

GRANULAR MATERIALS (SANDS & GRAVELS)		COHESIVE MATERIALS	
RELATIVE DENSITY	SPT N (BLOWS/FT.)	CONSISTENCY DESIGNATION	SPT N (BLOWS/FT.)
Very Loose	Less than 3	Very Soft	Less than 1
Loose	3-8	Soft	1-3
Medium Dense	8-24	Firm	3-6
Dense	24-40	Stiff	6-12
Very Dense	Greater than 40	Very Stiff	12-24
		Hard	Greater than 24

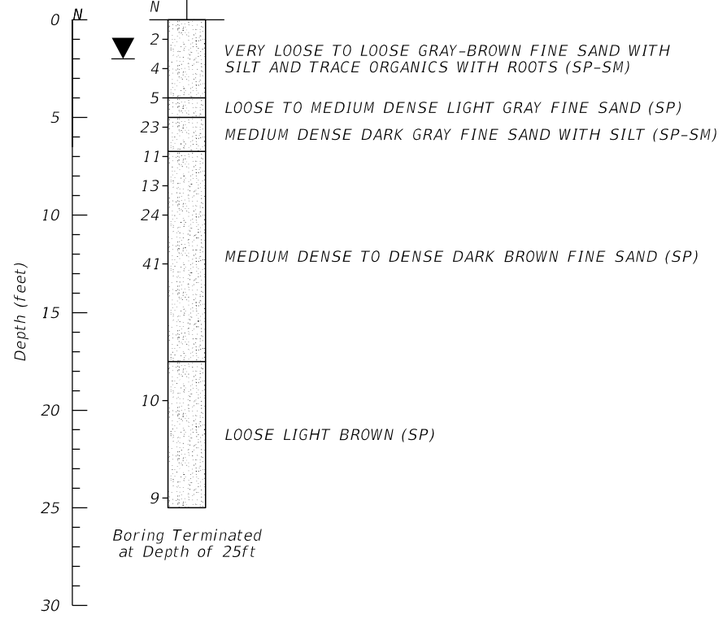
NOTES

1. Subsurface variations between borings should be anticipated as indicated in Section 2-4 of the Standard Specifications.
2. Boring locations and elevations were estimated based on project plans.
3. Boreholes were grouted with a Portland cement grout upon completion of the boring.

LEGEND

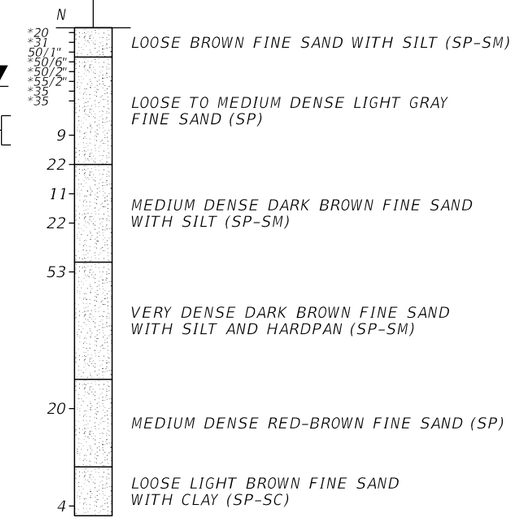
- Sand
- SPT Boring Location
- N N-Value
- Water Level at Time of Drilling
- -200 Percent Passing No. 200 US Standard Sieve
- MC Natural Moisture Content
- LL Liquid Limit
- * Static Cone Penetrometer Readings
- WOH Weight of Hammer

BOR # B-1
STA. 249+03.64 PAIGES DAIRY & CHESTER RD
OFF. 47.8' LT
DATE 10/23/2020
DRILLER B. TRUITT
HAMMER AUTO



Boring Terminated at Depth of 25ft

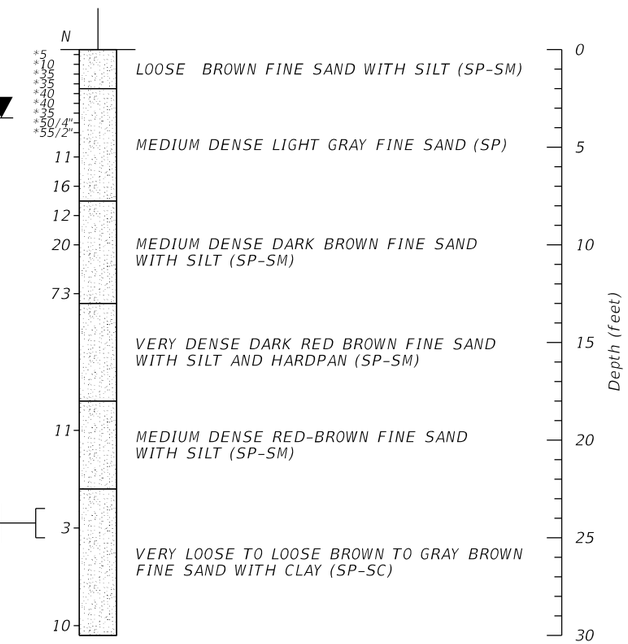
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OFF. 44.6' RT
DATE 10/23/2020
DRILLER B. TRUITT
HAMMER AUTO



GNE

Boring Terminated at Depth of 25ft

BOR # B-3
STA. 248+70.99 PAIGES DAIRY & CHESTER RD
OFF. 51.1 RT
DATE 10/23/2020
DRILLER B. TRUITT
HAMMER AUTO



GNE

Boring Terminated at Depth of 30ft

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

STEPHEN R. WEAVER, P.E.
P.E. LICENSE NUMBER 37389
UNIVERSAL ENGINEERING SCIENCES, INC.
5561 FLORIDA MINING BLVD. S.
JACKSONVILLE, FLORIDA 32257
CERTIFICATE OF AUTHORIZATION 00000549

DRAWN BY: TW	11/12/20
CHECKED BY: PM	11/12/20
DESIGNED BY: TW	11/12/20
CHECKED BY: PM	11/12/20

GFL CONSTRUCTION CORP.

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
N/A	NASSAU	N/A

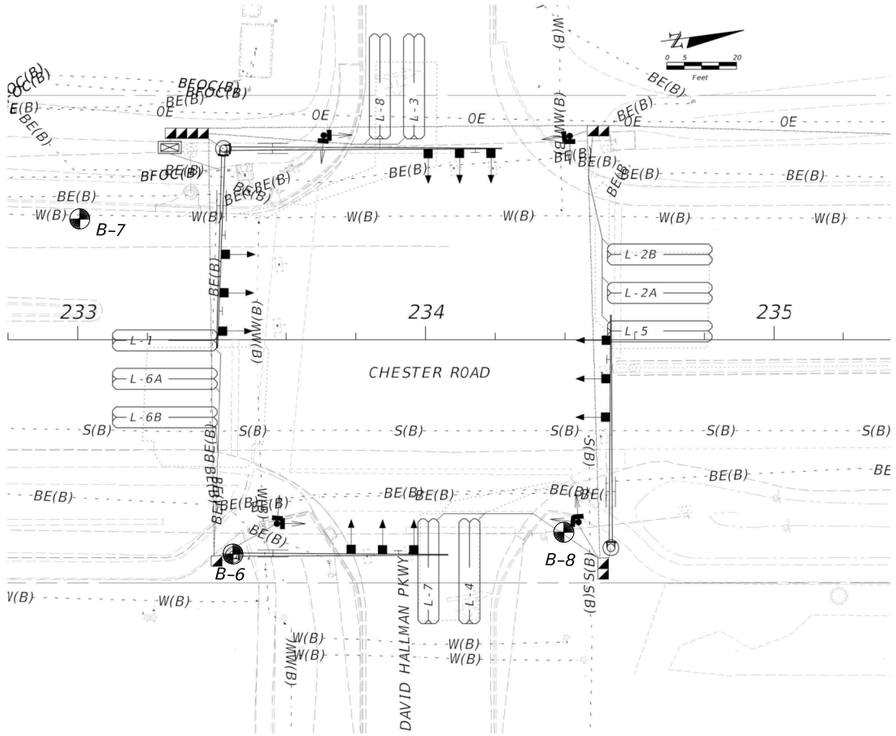
SHEET TITLE: REPORT OF CORE BORINGS (1 OF 2)

REF. DWG. NO.

PROJECT NAME: PAIGES DAIRY ROAD AND CHESTER ROAD INTERSECTION IMPROVEMENTS

SHEET NO.

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WITH RELATIVE DENSITY AND CONSISTENCY OF SOIL
USING AUTOMATIC HAMMER

GRANULAR MATERIALS (SANDS & GRAVELS)		COHESIVE MATERIALS	
RELATIVE DENSITY	SPT N (BLOWS/FT.)	CONSISTENCY DESIGNATION	SPT N (BLOWS/FT.)
Very Loose	Less than 3	Very Soft	Less than 1
Loose	3-8	Soft	1-3
Medium Dense	8-24	Firm	3-6
Dense	24-40	Stiff	6-12
Very Dense	Greater than 40	Very Stiff	12-24
		Hard	Greater than 24

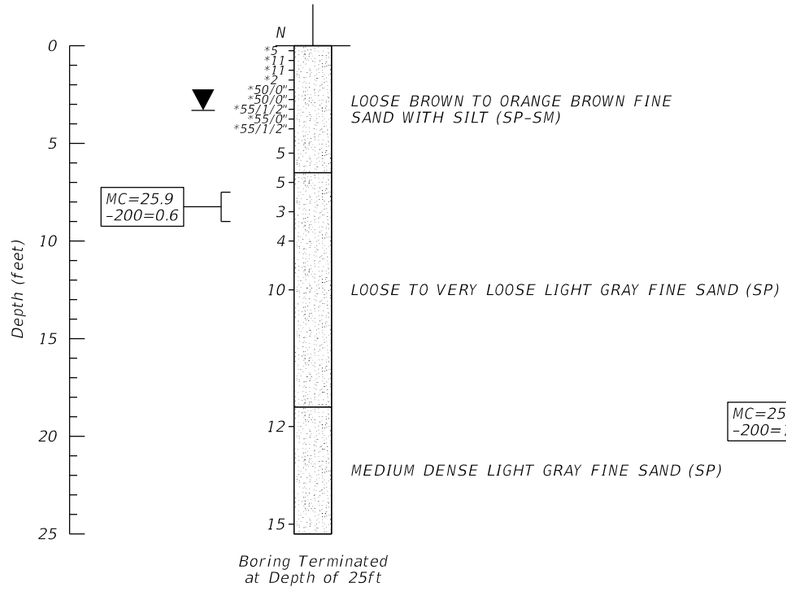
NOTES

1. Subsurface variations between borings should be anticipated as indicated in Section 2-4 of the Standard Specifications.
2. Boring locations and elevations were estimated based on project plans.
3. Boreholes were grouted with a Portland cement grout upon completion of the boring.

LEGEND

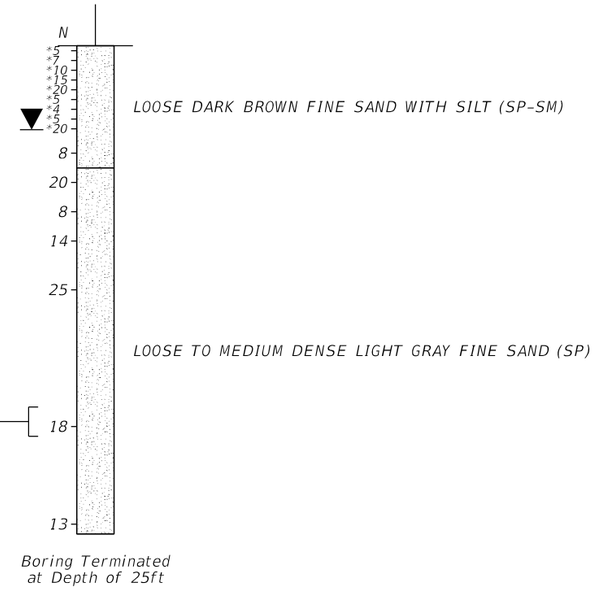
- Sand
- SPT Boring Location
- N N-Value
- Water Level at Time of Drilling
- -200 Percent Passing No. 200 US Standard Sieve
- MC Natural Moisture Content
- LL Liquid Limit
- * Static Cone Penetrometer Readings
- WOH Weight of Hammer

BOR # B-6
STA. 233+44.62 PAIGES DAIRY RD & DAVID HALLMAN PKWY
OFF. 61.8' RT
DATE 10/23/2020
DRILLER B. TRUITT
HAMMER AUTO



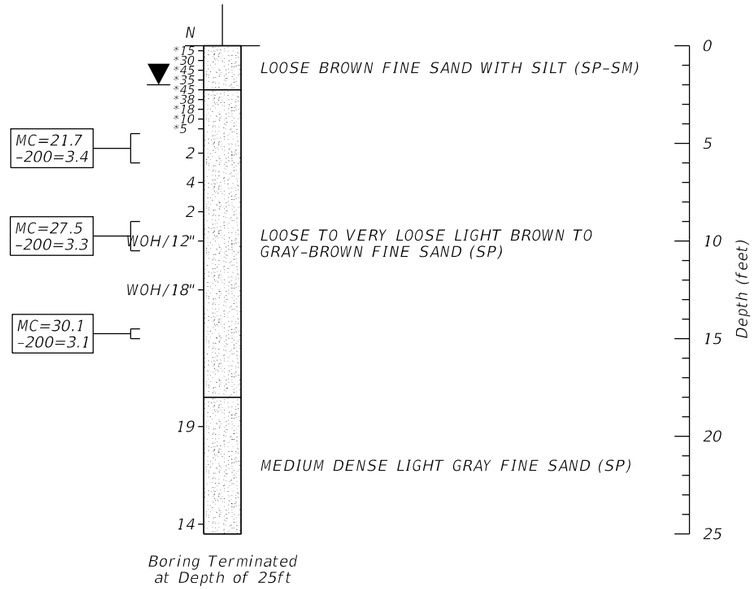
Boring Terminated at Depth of 25ft

BOR # B-7
STA. 233+41.74 PAIGES DAIRY RD & DAVID HALLMAN PKWY
OFF. 54.8' LT
DATE 10/23/2020
DRILLER B. TRUITT
HAMMER AUTO



Boring Terminated at Depth of 25ft

BOR # B-8
STA. 234+53.16 PAIGES DAIRY RD & DAVID HALLMAN PKWY
OFF. 59.7' RT
DATE 10/23/2020
DRILLER B. TRUITT
HAMMER AUTO



Boring Terminated at Depth of 25ft

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

STEPHEN R. WEAVER, P.E.
P.E. LICENSE NUMBER 37389
UNIVERSAL ENGINEERING SCIENCES, INC.
5561 FLORIDA MINING BLVD. S.
JACKSONVILLE, FLORIDA 32257
CERTIFICATE OF AUTHORIZATION 00000549

DRAWN BY: TW	11/12/20
CHECKED BY: PM	11/12/20
DESIGNED BY: TW	11/12/20
CHECKED BY: PM	11/12/20

GFL CONSTRUCTION CORP.

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
N/A	NASSAU	N/A

SHEET TITLE: REPORT OF CORE BORINGS (2 OF 2)

REF. DWG. NO.

PROJECT NAME: PAIGES DAIRY ROAD AND CHESTER ROAD INTERSECTION IMPROVEMENTS

SHEET NO.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

FIELD EXPLORATION PROCEDURES

Standard Penetration Test Borings

The penetration borings were made in general accordance with the latest revision of ASTM D 1586, "Penetration Test and Split-Barrel Sampling of Soils". The borings were advanced by rotary drilling techniques using a circulating bentonite fluid for borehole flushing and stability. At 2 ½ to 5 foot intervals, the drilling tools were removed from the borehole and a split-barrel sampler inserted to the borehole bottom and driven 18 inches into the soil using a 140-pound hammer falling on the average 30 inches per hammer blow. The number of blows for the final 12 inches of penetration is termed the "penetration resistance, blow count, or N-value". This value is an index to several in-place geotechnical properties of the material tested, such as relative density and Young's Modulus.

After driving the sampler 18 inches (or less if in hard rock-like material), the sampler was retrieved from the borehole and representative samples of the material within the split-barrel were placed in glass jars and sealed. After completing the drilling operations, the samples for each boring were transported to our laboratory where they were examined by our engineer in order to verify the driller's field classification.

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LABORATORY TESTING PROCEDURES

Natural Moisture Content

The water content of the sample tested was determined in general accordance with the latest revision of ASTM D 2216. The water content is defined as the ratio of "pore" or "free" water in a given mass of material to the mass of solid material particles.

Percent Fines Content

The percent fines or material passing the No. 200 mesh sieve of the sample tested was determined in general accordance with the latest revision of ASTM D 1140. The percent fines are the soil particles in the silt and clay size range.

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APPENDIX C

UNIVERSAL
ENGINEERING SCIENCES

GBC DOCUMENT

CONSTRAINTS AND RESTRICTIONS

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Important Information about Your

Geotechnical Engineering Report

Subsurface problems are a principal cause of construction delays, cost overruns, claims, and disputes.

While you cannot eliminate all such risks, you can manage them. The following information is provided to help.

Geotechnical Services Are Performed for Specific Purposes, Persons, and Projects

Geotechnical engineers structure their services to meet the specific needs of their clients. A geotechnical engineering study conducted for a civil engineer may not fulfill the needs of a construction contractor or even another civil engineer. Because each geotechnical engineering study is unique, each geotechnical engineering report is unique, prepared *solely* for the client. No one except you should rely on your geotechnical engineering report without first conferring with the geotechnical engineer who prepared it. *And no one — not even you* — should apply the report for any purpose or project except the one originally contemplated.

Read the Full Report

Serious problems have occurred because those relying on a geotechnical engineering report did not read it all. Do not rely on an executive summary. Do not read selected elements only.

A Geotechnical Engineering Report Is Based on A Unique Set of Project-Specific Factors

Geotechnical engineers consider a number of unique, project-specific factors when establishing the scope of a study. Typical factors include: the client's goals, objectives, and risk management preferences; the general nature of the structure involved, its size, and configuration; the location of the structure on the site; and other planned or existing site improvements, such as access roads, parking lots, and underground utilities. Unless the geotechnical engineer who conducted the study specifically indicates otherwise, do not rely on a geotechnical engineering report that was:

- not prepared for you,
- not prepared for your project,
- not prepared for the specific site explored, or
- completed before important project changes were made.

Typical changes that can erode the reliability of an existing geotechnical engineering report include those that affect:

- the function of the proposed structure, as when it's changed from a parking garage to an office building, or from a light industrial plant to a refrigerated warehouse,
- elevation, configuration, location, orientation, or weight of the proposed structure,
- composition of the design team, or
- project ownership.

As a general rule, *always* inform your geotechnical engineer of project changes—even minor ones—and request an assessment of their impact. *Geotechnical engineers cannot accept responsibility or liability for problems that occur because their reports do not consider developments of which they were not informed.*

Subsurface Conditions Can Change

A geotechnical engineering report is based on conditions that existed at the time the study was performed. *Do not rely on a geotechnical engineering report* whose adequacy may have been affected by: the passage of time; by man-made events, such as construction on or adjacent to the site; or by natural events, such as floods, earthquakes, or groundwater fluctuations. *Always* contact the geotechnical engineer before applying the report to determine if it is still reliable. A minor amount of additional testing or analysis could prevent major problems.

Most Geotechnical Findings Are Professional Opinions

Site exploration identifies subsurface conditions only at those points where subsurface tests are conducted or samples are taken. Geotechnical engineers review field and laboratory data and then apply their professional judgment to render an opinion about subsurface conditions throughout the site. Actual subsurface conditions may differ—sometimes significantly—from those indicated in your report. Retaining the geotechnical engineer who developed your report to provide construction observation is the most effective method of managing the risks associated with unanticipated conditions.

A Report's Recommendations Are *Not* Final

Do not overrely on the construction recommendations included in your report. *Those recommendations are not final,* because geotechnical engineers develop them principally from judgment and opinion. Geotechnical engineers can finalize their recommendations only by observing actual

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subsurface conditions revealed during construction. *The geotechnical engineer who developed your report cannot assume responsibility or liability for the report's recommendations if that engineer does not perform construction observation.*

A Geotechnical Engineering Report Is Subject to Misinterpretation

Other design team members' misinterpretation of geotechnical engineering reports has resulted in costly problems. Lower that risk by having your geotechnical engineer confer with appropriate members of the design team after submitting the report. Also retain your geotechnical engineer to review pertinent elements of the design team's plans and specifications. Contractors can also misinterpret a geotechnical engineering report. Reduce that risk by having your geotechnical engineer participate in prebid and preconstruction conferences, and by providing construction observation.

Do Not Redraw the Engineer's Logs

Geotechnical engineers prepare final boring and testing logs based upon their interpretation of field logs and laboratory data. To prevent errors or omissions, the logs included in a geotechnical engineering report should *never* be redrawn for inclusion in architectural or other design drawings. Only photographic or electronic reproduction is acceptable, *but recognize that separating logs from the report can elevate risk.*

Give Contractors a Complete Report and Guidance

Some owners and design professionals mistakenly believe they can make contractors liable for unanticipated subsurface conditions by limiting what they provide for bid preparation. To help prevent costly problems, give contractors the complete geotechnical engineering report, *but* preface it with a clearly written letter of transmittal. In that letter, advise contractors that the report was not prepared for purposes of bid development and that the report's accuracy is limited; encourage them to confer with the geotechnical engineer who prepared the report (a modest fee may be required) and/or to conduct additional study to obtain the specific types of information they need or prefer. A prebid conference can also be valuable. *Be sure contractors have sufficient time* to perform additional study. Only then might you be in a position to give contractors the best information available to you, while requiring them to at least share some of the financial responsibilities stemming from unanticipated conditions.

Read Responsibility Provisions Closely

Some clients, design professionals, and contractors do not recognize that geotechnical engineering is far less exact than other engineering disciplines. This lack of understanding has created unrealistic expectations that have led to disappointments, claims, and disputes. To help reduce the risk of such outcomes, geotechnical engineers commonly include a variety of explanatory provisions in their reports. Sometimes labeled "limitations" many of these provisions indicate where geotechnical engineers' responsibilities begin and end, to help others recognize their own responsibilities and risks. *Read these provisions closely.* Ask questions. Your geotechnical engineer should respond fully and frankly.

Geoenvironmental Concerns Are Not Covered

The equipment, techniques, and personnel used to perform a *geoenvironmental* study differ significantly from those used to perform a *geotechnical* study. For that reason, a geotechnical engineering report does not usually relate any geoenvironmental findings, conclusions, or recommendations; e.g., about the likelihood of encountering underground storage tanks or regulated contaminants. *Unanticipated environmental problems have led to numerous project failures.* If you have not yet obtained your own geoenvironmental information, ask your geotechnical consultant for risk management guidance. *Do not rely on an environmental report prepared for someone else.*

Obtain Professional Assistance To Deal with Mold

Diverse strategies can be applied during building design, construction, operation, and maintenance to prevent significant amounts of mold from growing on indoor surfaces. To be effective, all such strategies should be devised for the *express purpose* of mold prevention, integrated into a comprehensive plan, and executed with diligent oversight by a professional mold prevention consultant. Because just a small amount of water or moisture can lead to the development of severe mold infestations, a number of mold prevention strategies focus on keeping building surfaces dry. While groundwater, water infiltration, and similar issues may have been addressed as part of the geotechnical engineering study whose findings are conveyed in this report, the geotechnical engineer in charge of this project is not a mold prevention consultant; ***none of the services performed in connection with the geotechnical engineer's study were designed or conducted for the purpose of mold prevention. Proper implementation of the recommendations conveyed in this report will not of itself be sufficient to prevent mold from growing in or on the structure involved.***

Rely, on Your ASFE-Member Geotechncial Engineer for Additional Assistance

Membership in ASFE/The Best People on Earth exposes geotechnical engineers to a wide array of risk management techniques that can be of genuine benefit for everyone involved with a construction project. Confer with your ASFE-member geotechnical engineer for more information.

ASFE THE GEOPROFESSIONAL BUSINESS ASSOCIATION

8811 Colesville Road/Suite G106, Silver Spring, MD 20910
Telephone: 301/565-2733 Facsimile: 301/589-2017
e-mail: info@asfe.org www.asfe.org

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CONSTRAINTS & RESTRICTIONS

The intent of this document is to bring to your attention the potential concerns and the basic limitations of a typical geotechnical report.

WARRANTY

Universal Engineering Sciences has prepared this report for our client for his exclusive use, in accordance with generally accepted soil and foundation engineering practices, and makes no other warranty either expressed or implied as to the professional advice provided in the report.

UNANTICIPATED SOIL CONDITIONS

The analysis and recommendations submitted in this report are based upon the data obtained from soil borings performed at the locations indicated on the Boring Location Plan. This report does not reflect any variations which may occur between these borings.

The nature and extent of variations between borings may not become known until excavation begins. If variations appear, we may have to re-evaluate our recommendations after performing on-site observations and noting the characteristics of any variations.

CHANGED CONDITIONS

We recommend that the specifications for the project require that the contractor immediately notify Universal Engineering Sciences, as well as the owner, when subsurface conditions are encountered that are different from those present in this report.

No claim by the contractor for any conditions differing from those anticipated in the plans, specifications, and those found in this report, should be allowed unless the contractor notifies the owner and Universal Engineering Sciences of such changed conditions. Further, we recommend that all foundation work and site improvements be observed by a representative of Universal Engineering Sciences to monitor field conditions and changes, to verify design assumptions and to evaluate and recommend any appropriate modifications to this report.

MISINTERPRETATION OF SOIL ENGINEERING REPORT

Universal Engineering Sciences is responsible for the conclusions and opinions contained within this report based upon the data relating only to the specific project and location discussed herein. If the conclusions or recommendations based upon the data presented are made by others, those conclusions or recommendations are not the responsibility of Universal Engineering Sciences.

CHANGED STRUCTURE OR LOCATION

This report was prepared in order to aid in the evaluation of this project and to assist the architect or engineer in the design of this project. If any changes in the design or location of the structure as outlined in this report are planned, or if any structures are included or added that are not discussed in the report, the conclusions and recommendations contained in this report shall not be considered valid unless the changes are reviewed and the conclusions modified or approved by Universal Engineering Sciences.

USE OF REPORT BY BIDDERS

Bidders who are examining the report prior to submission of a bid are cautioned that this report was prepared as an aid to the designers of the project and it may affect actual construction operations.

Bidders are urged to make their own soil borings, test pits, test caissons or other investigations to determine those conditions that may affect construction operations. Universal Engineering Sciences cannot be responsible for any interpretations made from this report or the attached boring logs with regard to their adequacy in reflecting subsurface conditions which will affect construction operations.

STRATA CHANGES

Strata changes are indicated by a definite line on the boring logs which accompany this report. However, the actual change in the ground may be more gradual. Where changes occur between soil samples, the location of the change must necessarily be estimated using all available information and may not be shown at the exact depth.

OBSERVATIONS DURING DRILLING

Attempts are made to detect and/or identify occurrences during drilling and sampling, such as: water level, boulders, zones of lost circulation, relative ease or resistance to drilling progress, unusual sample recovery, variation of driving resistance, obstructions, etc.; however, lack of mention does not preclude their presence.

WATER LEVELS

Water level readings have been made in the drill holes during drilling and they indicate normally occurring conditions. Water levels may not have been stabilized at the last reading. This data has been reviewed and interpretations made in this report. However, it must be noted that fluctuations in the level of the groundwater may occur due to variations in rainfall, temperature, tides, and other factors not evident at the time measurements were made and reported. Since the probability of such variations is anticipated, design drawings and specifications should accommodate such possibilities and construction planning should be based upon such assumptions of variations.

LOCATION OF BURIED OBJECTS

All users of this report are cautioned that there was no requirement for Universal Engineering Sciences to attempt to locate any man-made buried objects during the course of this exploration and that no attempt was made by Universal Engineering Sciences to locate any such buried objects. Universal Engineering Sciences cannot be responsible for any buried man-made objects which are subsequently encountered during construction that are not discussed within the text of this report.

TIME

This report reflects the soil conditions at the time of exploration. If the report is not used in a reasonable amount of time, significant changes to the site may occur and additional reviews may be required.

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APPENDIX B

NASSAU COUNTY
ROAD CLOSURE POLICY

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

Nassau County Engineering Services Department
96161 Nassau Place
Yulee, Florida 32097

Road Closure Policy

1. Submit a written request to the Public Works Director for the road closure. In the request you must explain the following:

    a) Why the road needs to be closed and the duration of the closure?
    b) What are the benefits to public for closing the road?
    c) Include a draft detour plan.

    After the road closure request and draft detour plan have been approved, the following information shall be submitted to the Nassau County Engineering Services Department for review and approval.

2. Submit to Nassau County Engineering Services Department: A Maintenance of Traffic (MOT) Plan that was prepared by or approved by Florida Advanced Maintenance of Traffic (AMOT) certified personnel referencing the latest editions of the Florida Department of Transportation (FDOT) Design Standards Section 600 and the Manual on Uniform Traffic Control Devices (MUTCD). These plans shall include the Worksite Traffic Supervisor as per the latest edition of the FDOT Standard Specifications for Road & Bridge Construction Section 105-8.3. Valiable Message Boards (VMB) will be required and shall be installed 7 days prior to the detour taking place and remain throughout. Any signed detour that will be within FDOT Right-of-Way (or on portions thereof) shall have prior FDOT approval.

    A Maintenance of Traffic Plan proposing a change to any approved documents, including contract documents and approved construction plans must be signed and sealed.

3. Provide a public notification advertisement to an approved local newspaper. To appear no less than fourteen (14) days prior to the scheduled closure. Submit the draft notification to Nassau County Engineering Services for review and approval prior to advertising. This notification will clearly describe the name of the project and contractor, scope of the detour, scope of construction, the name of all roads that will be affected, official detour routes, duration of closure and the Worksite Traffic Supervisor's telephone number. Attach a diagram showing the surrounding area and detour routes. Diagram must be clear and depict road names and route direction. The size of advertisement in newspaper shall be a minimum of 2 columns wide by 12 inches long (tall) or one fifth (1/5) of a page with a minimum of 24 point font for the heading and 10 point font for the body and detour plan. Flyers with the same information may be required. With the Engineering Services Department's written approval, local roads may not require publishing of the advertisement in the paper; however, all other criteria must be adhered to.

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4. Submit notification to the following departments and agencies prior to the road closure. A confirmation of notification to the Engineering Services Department must be provided prior to road closure.

- Nassau County Sheriff's Office:
  - Ricky A Rowell, TAC
    Phone - (904) 548-4000
    Fax - (904) 225-5737
    Email - rickyr@nassauso .com
  - L. Rene Graham, Lt.
    Phone - (904) 548-4000
    Fax – (904) 548-4128
    Email - lrgraham @nassauso.com

- Nassau County Emergency Management:
  - Martha Oberdorfer
    Phone - (904) 548-4094
    Fax – (904) 548-4194
    Email- mlwagaman@nassauso .com

- Nassau County Fire Department:
  - Scott Hemmingway
    Phone - (904) 530-6600
    Fax - (904) 321-5748
    Email - shemmingway @nassaucountyfl .com

- Nassau County School Bus Transportation:
  - AmyBell
    Phone - (904) 225-0127
    Fax - (904) 255-9404
    Email - amy.bell @nassau.k12 .fl.us

- Nassau County Road & Bridge Department:
  - Jennifer Kirkland
    Phone - (904) 530-6175
    Fax - (904) 530-6901
    Email - jbeayer @nassaucountyfl.com

- Nassau County Manager's Office
  - Sabrina Robertson
    Phone- (904) 530-6010
    Fax - (904) 321-5784
    Email - SRobertson@nassaucountyfl.com

- United Postal Service (Yulee)
  - Beverly Dye
    Phone - (904) 225-5331
    Fax - (904) 225-9733
    Email- beverly .a.dye@usps .goy

- United Postal Service (Fernandina)
  - EdwinLang
    Phone - (904) 491-8102
    Fax - (904) 277-7947
    Email - edwin.p.lang@usps .gov

- United Postal Service (Callahan)
  - Kim Vojtech
    Phone- (904) 879-2131
    Fax - (904) 879-6737
    Email - kim.k.vojtech@usps.gov

- United Postal Service (Hilliard)
  - Heather Ackerman
    Phone - (904) 845-2151
    Fax - (904) 845-7738
    Email - heather.r .ackeonan @usps.gov

Depending on the location of the project/detour, notification to other agencies may be required.

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5. Signage will be in place prior to road closure. They will be bagged/covered until needed. VMBs, will be installed and operating a minimum of seven (7) calendar days prior to any closure/detour.

6. Visual inspection of the VMB by the Engineering Services Department is required at installation or relocation. Visual inspection of all road/detour signage shall be accomplished prior to road closure. Contact Engineering Services 48 hours prior to installation for inspection.

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APPENDIX C

NASSAU COUNTY
AS-BUILTS REQUIREMENT CHECKLIST

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Nassau County Engineering Services Department
96161 Nassau Place
Yulee, Florida 32097

AS-BUILT REQUIREMENT CHECKLIST:

The following list is intended to highlight the majority of the as-built requirements for Construction projects in Nassau County. This list should not be considered to be all-inclusive as each project is unique in nature and may require additional information that can only be determined during the course of the project's completion. Generally, however, the AS-BUILT information shall contain the following:

1. AS-BUILTS should be based on the design plans as approved through the DRC process. The submitted as-builts should be at the same scale and have the same orientation as the design files.

2. AS-BUILTS should have the same page numbering as the design plans, and the cover of the AS-BUILT plans should have all sheets from the design plans listed with sheets not "AS-BUILTED" stricken through.

3. AS-BUILTS should display the original design information as displayed on the plan sheets with the design information stricken through and the as-built information displayed in bold adjacent to the design information.

4. AS-BUILTS shall be accompanied by an "Engineer's Certification" form from the Engineer of Record. (Exhibits 3 & 4)

5. Three {3) sets of fully signed and sealed AS-BUILTS should be submitted along with CD containing the PDF file(s) and CADD file(s) of the AS-BUILT information. CADD files should be in State Plane coordinates (NAD 83) with a vertical datum of NAVD88 or NGVD 1929 (with the datum shift noted). Furthermore, CADD files should only be submitted in ACAD version 2013 or later.

6. Northing and Easting of all drainage structures should be included.

7. The plans should be clearly legible, and all structure notes, distances, angles and elevations should be clearly readable.

8. If the plan represents a phase of a development, then that phase should be clearly identified for clarity and avoid confusion with future phases.

9. There should be a north arrow and scale on each sheet.

10. A legend should be included explaining the symbols used in the plans.

11. ALL sheets must be signed and sealed by a surveyor licensed in the State of Florida.

Phone (904) 530-6225 Fax (904) 491-3611

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12. There should be sufficient "plan" and "as-built" elevations shown to verify that the streets were constructed substantially in accordance with the approved construction plans. Generally, the County will review all low points and high points in the street and verify that the minimum grade exists for each street. On straight sections between high and low points elevations should be taken every 200 feet.

13. All street curve radii should be shown on the plans or in a table.

14. Street widths and curb type should be identified for each street on each sheet.

15. Whenever there are islands within the streets the as-builts should include dimensions for these islands.

16. The paved radii of all Cui-de-Sacs should be listed and Cul-De-Sac center and edge of pavement or gutter elevations at quarter points shall be shown.

17. All underdrains should be shown with size, lengths, inverts and cleanouts all shown.

18. Where swales are utilized there should be sufficient flow line elevations and ditch cross sections to verify capacity of the channel.

19. There should be a comparison table of design and as-built pipe sizes, lengths, invert elevations, and pipe slopes.

20. The as-built surface area of the pond(s) at Normal Water Level (design) and Top of Bank (as-built) should be included.

21. The bottom elevation and area should be shown (2 locations min. per pond).

22. The surveyor shall certify by note (for each pond) that no slope is greater than 1:4 above the design NWL, unless the pond is fenced.

23. All structures in the pond (overflow weirs, etc.) should be included.

24. All water main and sewer main locations, size, lengths, inverts, etc.

25. All easements required (or on a plat) should be shown on the "As- Builts" and improvement located so as to verify improvements are within the easement. Easement not recorded as part of the recorded plat including drainage and right-of-way easements shall also be identified as "as-built". For these easements the book and page of their record, property to whom easement is dedicated and date of filing should be shown on as the "as-built". All improvements intended to be within these easements shall be shown as the "as-builts" to verify the improvements are within the easement. Wetlands are not reviewed by Nassau County and need not be shown.

26. Depict all storm drain and utility repair locations and methods.

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APPENDIX D

PLANS AND DRAWINGS

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COMPONENTS OF CONTRACT PLANS SET

ROADWAY PLANS
JEA UTILITY PLANS
SIGNALIZATION PLANS

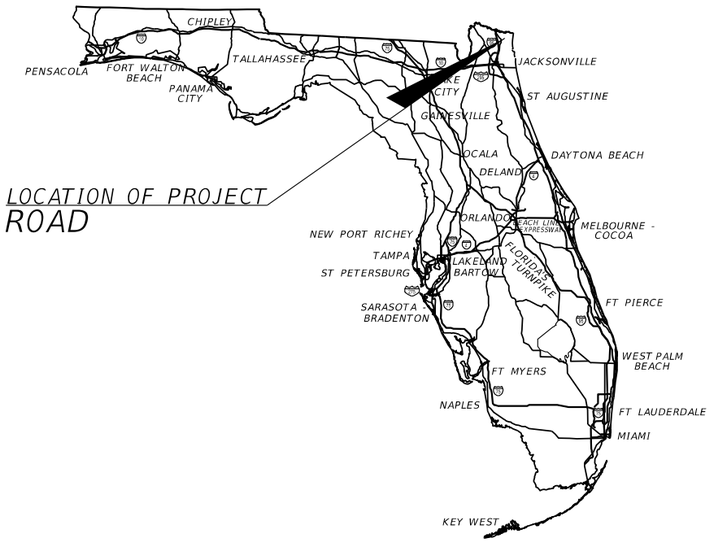
A DETAILED INDEX APPEARS ON THE KEY SHEET OF EACH COMPONENT

NASSAU COUNTY ENGINEERING

CONTRACT PLANS

CHESTER ROAD
FROM DAVID HALLMAN PARKWAY TO NORTH OF PAGES DAIRY ROAD

ROADWAY PLANS

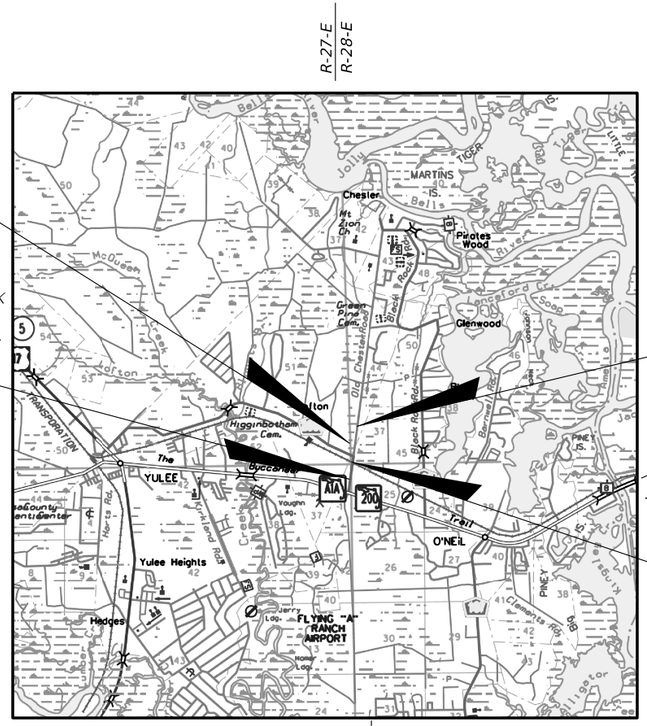


LOCATION OF PROJECT

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SUMMARY OF PAY ITEMS
3	DRAINAGE MAP
4-14	TYPICAL SECTION
15	TYPICAL DETAILS
16-17	SUMMARY OF DRAINAGE STRUCTURES
18	PROJECT LAYOUT
19-20	PROJECT CONTROL
21-24	GENERAL NOTES
25-33	PLAN SHEET
34-42	PROFILE SHEET
43-45	SPECIAL DETAILS
46-54	DEMOLITION SHEET
55-70	DRAINAGE STRUCTURES
71	POND PLAN
72	POND DETAILS
73-74	POND CROSS SECTIONS
75	SOIL SURVEY SHEET
76-77	ROADWAY SOIL PROFILES
78-107	CROSS SECTIONS
108-109	STORMWATER POLLUTION PERVENTION PLAN
110	EROSION CONTROL DETAILS
111-119	EROSION CONTROL PLAN SHEETS
120-124	TRAFFIC CONTROL PLAN TYPICAL SECTIONS
125-179	TEMPORARY TRAFFIC CONTROL PLANS
180-182	DETOUR PLANS
183	SUMMARY OF VERIFIED UTILITIES
184-192	UTILITY ADJUSTMENTS
193	TABULATION OF QUANTITIES
194-202	SIGNING AND PAVEMENT MARKING PLAN
203	NASSAU COUNTY STANDARD DETAIL #15
204	NASSAU COUNTY STANDARD DETAIL #21
205	NASSAU COUNTY STANDARD DETAIL #26
206	GENESEE & WYOMING STANDARD DETAIL ES-1010.0

STA. EQUATION:
STA. 1249+37.34 BK=
STA. 185+10.33 AHD.



GOVERNING STANDARDS AND ORDINANCES:

Nassau County Roadway and Drainage Standards Ordinance 99-17

Florida Department of Transportation, FY2023-24 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs). Standard Plans for Road Construction and associated IRs are available at the following website: http://www.fdot.gov/design/standardplans

DANIEL R. WALTERMYER LICENSE No 73903 STATE OF FLORIDA PROFESSIONAL ENGINEER

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

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CONNELLY & WICKER INC.
10060 SKINNER LAKE DR., SUITE 500
JACKSONVILLE, FL 32246
PHONE 904.265.3030 FAX 904.265.3031
CA NO. 3650
DANIEL R. WALTERMYER, PE No 73903

KEY SHEET REVISIONS	
DATE	DESCRIPTION

ROADWAY PLANS
ENGINEER OF RECORD:
DANIEL R. WALTERMYER, P.E.
FL P.E. NO. 73903
CONNELLY AND WICKER INC.
10060 SKINNER LAKE DR., SUITE 500
JACKSONVILLE, FL. 32246

NASSAU COUNTY PROJECT MANAGER:
ROBERT COMPANION, P.E.

NASSAU COUNTY COMMISSIONERS:
DISTRICT 1 – JOHN F. MARTIN, VICE-CHAIRMAN
DISTRICT 2 – A.M. HUPPMANN
DISTRICT 3 – JEFF GRAY, CHAIRMAN
DISTRICT 4 – ALYSON R. MCCULLOUGH
DISTRICT 5 – KYLNT A. FARMER, CHAIRMAN

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
	23	1

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SUMMARY OF PAY ITEMS

ROADWAY ITEMS

FDOT ITEM NO.	ITEM DESCRIPTION	UNIT
101-1	MOBILIZATION	LS
102-1	MAINTENANCE OF TRAFFIC	LS
104-10-3	SEDIMENT BARRIER	LF
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	LF
104-18	INLET PROTECTION SYSTEM	EA
107-1	LITTER REMOVAL AND DISPOSAL	AC
107-2	MOWING	AC
110-1-1	CLEARING AND GRUBBING	AC
110-4-10	REMOVAL OF EXIST CONC	SY
120-1	REGULAR EXCAVATION	CY
120-6	EMBANKMENT	CY
160-4	TYPE B STABILIZATION	SY
285-701	OPTIONAL BASE GROUP 1	SY
285-704	OPTIONAL BASE GROUP 4, (DRIVEWAY)	SY
285-706	OPTIONAL BASE GROUP 6	SY
327-70-6	MILLING EXIST ASPH PAVT, 1.5" AVG DEPTH	SY
327-70-16	MILLING EXIST ASPH PAVT, 0.5" AVG DEPTH	SY
334 1 13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	TN
334 1 53	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC C, PG76-22	TN
425-1-311	INLETS, CURB, TYPE P-1, <10'	EA
425-1-321	INLETS, CURB, TYPE P-2, <10'	EA
425-1-341	INLETS, CURB, TYPE P-4, <10'	EA
425-1-521	INLETS, DITCH BOTTOM, TYPE C, <10'	EA
425-1-549	INLETS, DITCH BOTTOM, TYPE D, MODIFIED	EA
425-2-61	MANHOLES, P-8, <10'	EA
430-175-118	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18"	LF
430-175-124	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 24"	LF
430-175-130	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 30"	LF
430-175-136	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 36"	LF
430-175-218	PIPE CULVERT, OPTIONAL MATERIAL, ELLIPTICAL, 14"x23"	LF
430-518-110	STRAIGHT CONCRETE ENDWALL, 18", ROUND, 15 DEGREES	EA

SUMMARY OF PAY ITEMS

ROADWAY ITEMS

FDOT ITEM NO.	ITEM DESCRIPTION	UNIT
430-518-130	STRAIGHT CONCRETE ENDWALL, 24", ROUND, 45 DEGREES	EA
430-830	PIPE FILLING AND PLUGGING- PLACE OUT OF SERVICE	CY
430-982-138	MITERED END SECTION, OPTIONAL ROUND, 36" CD	EA
515-1-2	PIPE HANDRAIL - GUARDRAIL, ALUMINIM	LF
520-1-10	CONCRETE CURB & GUTTER, TYPE F	LF
	RIBBON CURB	LF
520-5-11	TRAFFIC SEPARATOR CONCRETE-TYPE I, 4' WIDE	LF
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4"	SY
527-2	DETECTABLE WARNINGS	SF
570-1-2	PERFORMANCE TURF, SOD	SY
700-1-11	SINGLE POST SIGN, F&I GROUND MOUNT, <12 SF	AS
700-1-50	SINGLE POST SIGN, RELOCATE	AS
700-1-60	SINGLE POST SIGN, REMOVE	AS
706-1-3	RAISED PAVEMENT MARKERS	EA
710-11-290	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, ISLAND NOSE	SF
711-11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK	LF
711-11-124	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18" FOR DIAGONALS AND CHEVRONS	LF
711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24"	LF
711-11-141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDE LINE/ 6-10 GAP EXTENSION, 6"	GM
711-11-160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE	EA
711-11-170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA
711-11-224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF
711-16-131	THERMOPLASTIC, STANDARD-OTHER SURFACES WHITE, SKIP, 6",10-30 SKIP OR 3-9 LANE DROP	GM
711-16-231	THERMOPLASTIC, STANDARD-OTHER SURFACES YELLOW, SKIP, 6"	GM
711-16-101	THERMOPLASTIC, STANDARD, WHITE, SOLID, 6"	GM
711-16-201	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 6"	GM

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Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

SUMMARY OF PAY ITEMS

SHEET NO. 2

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

CHESTER RD.

EX-1 CURB INLET, 18" RCP
INLET ELEVATION = 29.43
N INV = 21.26
S INV = 21.19

EX-2 MANHOLE, 24" RCP & 19"X30" RCP
TOP ELEVATION = 30.75
N INV = 25.80
S INV = 25.30

EX-3 CURB INLET, 18" RCP
INLET ELEVATION = 29.51
N INV = 21.04
S INV = 21.14

EX-4 DBI, 18" RCP
GRATE ELEVATION = 27.57
N INV = 21.07
S INV = 21.04

EX-5 MANHOLE, 19" X 30" RCP
TOP ELEVATION = 32.49
N INV = 26.30
E INV = 26.30
S INV = 26.30

EX-6 CURB INLET, XX" RCP
INLET ELEVATION = 30.30
INV = 26.35

EX-7 CURB INLET, 18" RCP
INLET ELEVATION = 29.20
N INV = 20.90
E INV = NA
S INV = 20.83

EX-8 CURB INLET, 18" RCP
TOP ELEVATION = 29.12
N INV = 24.04
S INV = 20.82
W INV = 20.72

HOME DEPOT

COURTNEY ISLES WAY

EXIST. R/W

1230 1235 1240 1245 1250 1255 1260

N 7° 51' 45" E

CHESTER RD

N 8° 41' 14" E

EXIST. R/W

GATOR'S DOCKSIDE

℄ SURVEY CHESTER RD

DAVID HALLMAN PKWY

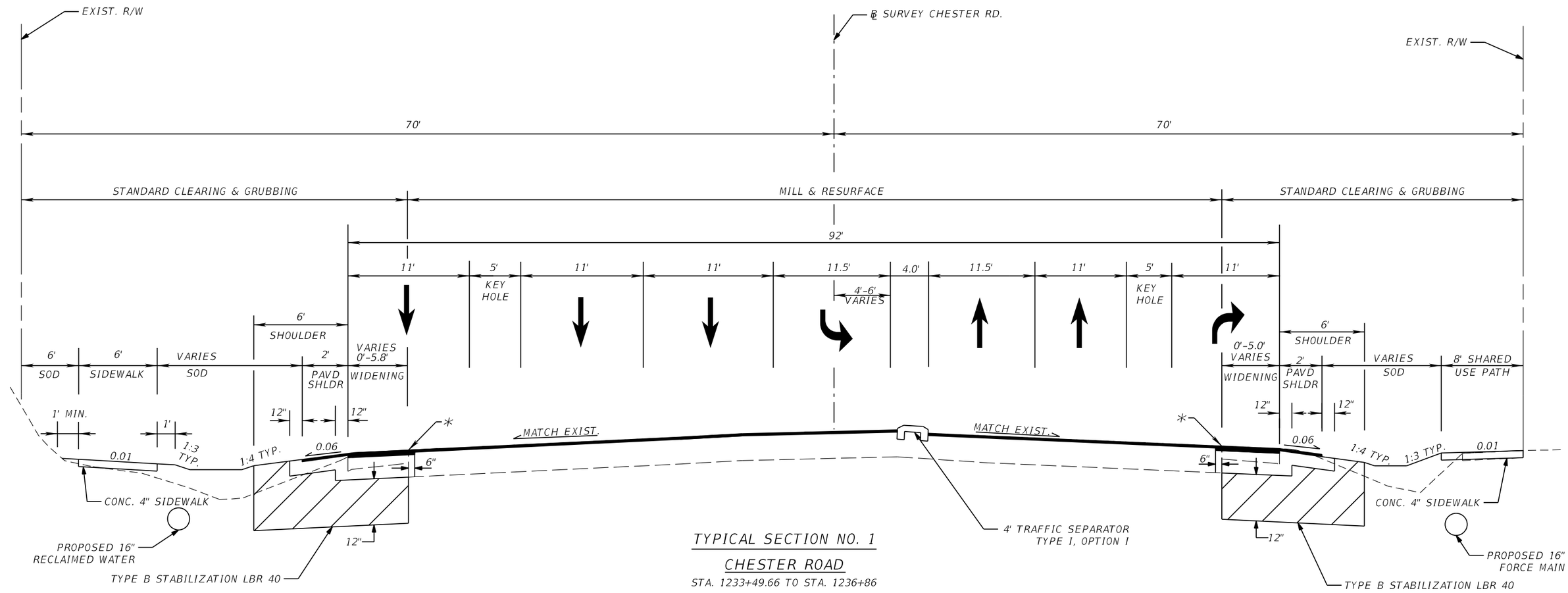
PUBLIX

EXIST. R/W

EXIST. R/W

EXIST. R/W

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TYPICAL SECTION NO. 1

CHESTER ROAD

STA. 1233+49.66 TO STA. 1236+86

WIDENING

OPTIONAL BASE GROUP 6 WITH

TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1 1/2")

AND TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1 1/2") (PG 76-22)

SHOULDER (NEW CONSTRUCTION)

OPTIONAL BASE GROUP 1 WITH

TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1 1/2") (PG 76-22)

MILLING

MILL EXIST. ASPHALT PAVEMENT (1 1/2" DEPTH)

RESURFACING

TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1 1/2") (PG 76-22)

POSTED SPEED = 35 MPH
DESIGN SPEED = 45 MPH

* NO VERTICAL JOINT IS PERMITTED AT THIS LOCATION. FOLLOW NASSAU COUNTY STANDARD DETAIL #26.

NOTE: FINAL ASPHALT LIFT SHALL BE CONSTRUCTED ACROSS THE WIDENING JOINT.

NOTE: ALL DISTURBED AREAS SHALL BE SODDED

REVISIONS			
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Jacksonville, FL 32246
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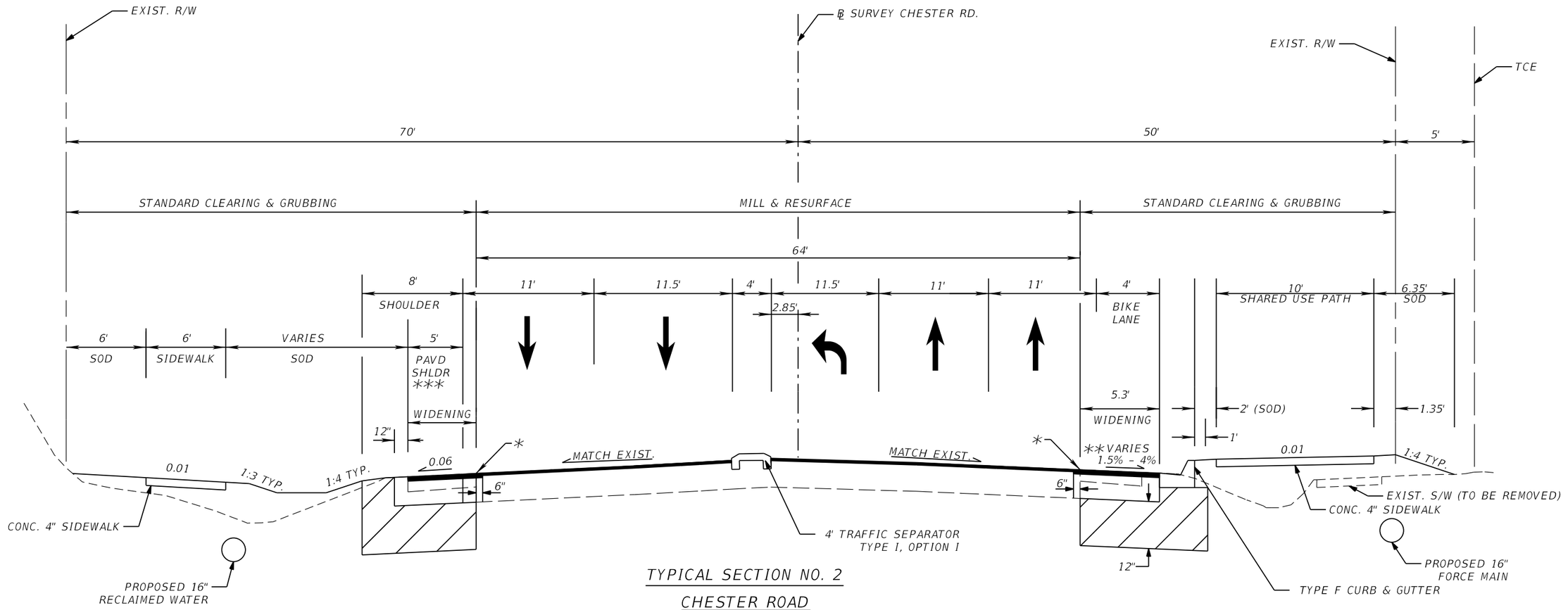
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TYPICAL SECTION

SHEET NO. 4

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TYPICAL SECTION NO. 2

CHESTER ROAD

STA. 1236+86.00 TO STA. 1238+40

WIDENING

OPTIONAL BASE GROUP 6 WITH

TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1 1/2")

AND TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1 1/2") (PG 76-22)

MILLING

MILL EXIST. ASPHALT PAVEMENT (1 1/2" DEPTH)

RESURFACING

TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1 1/2") (PG 76-22)

*** CONSTRUCT SHOULDER AT FULL ROADWAY DEPTH

* NO ASPHALT JOINT IS PERMITTED AT THIS LOCATION

** SEE PLANS FOR CROSSLOPES

NOTE: FINAL ASPHALT LIFT SHALL BE CONSTRUCTED ACROSS THE WIDENING JOINT.

NOTE: ALL DISTURBED AREAS SHALL BE SODDED

POSTED SPEED = 35 MPH
DESIGN SPEED = 45 MPH

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FL P.E. No. 73903

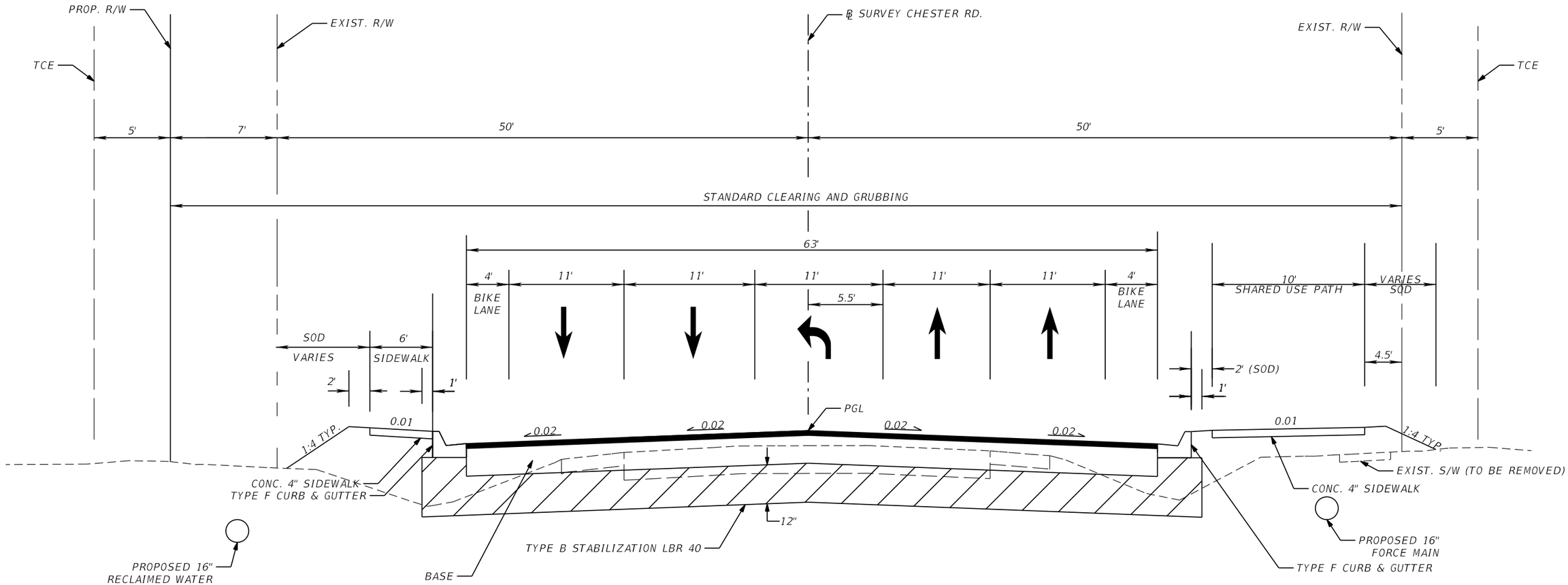
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TYPICAL SECTION

SHEET NO. 5

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TYPICAL SECTION NO. 3

CHESTER ROAD

STA. 1238+40.00 TO STA. 1241+80.00

NEW CONSTRUCTION

OPTIONAL BASE GROUP 6 WITH

TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1.5")

TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1.5") (PG 76-22)

POSTED SPEED = 35 MPH
DESIGN SPEED = 45 MPH

NOTE: ALL DISTURBED AREAS SHALL BE SODDED

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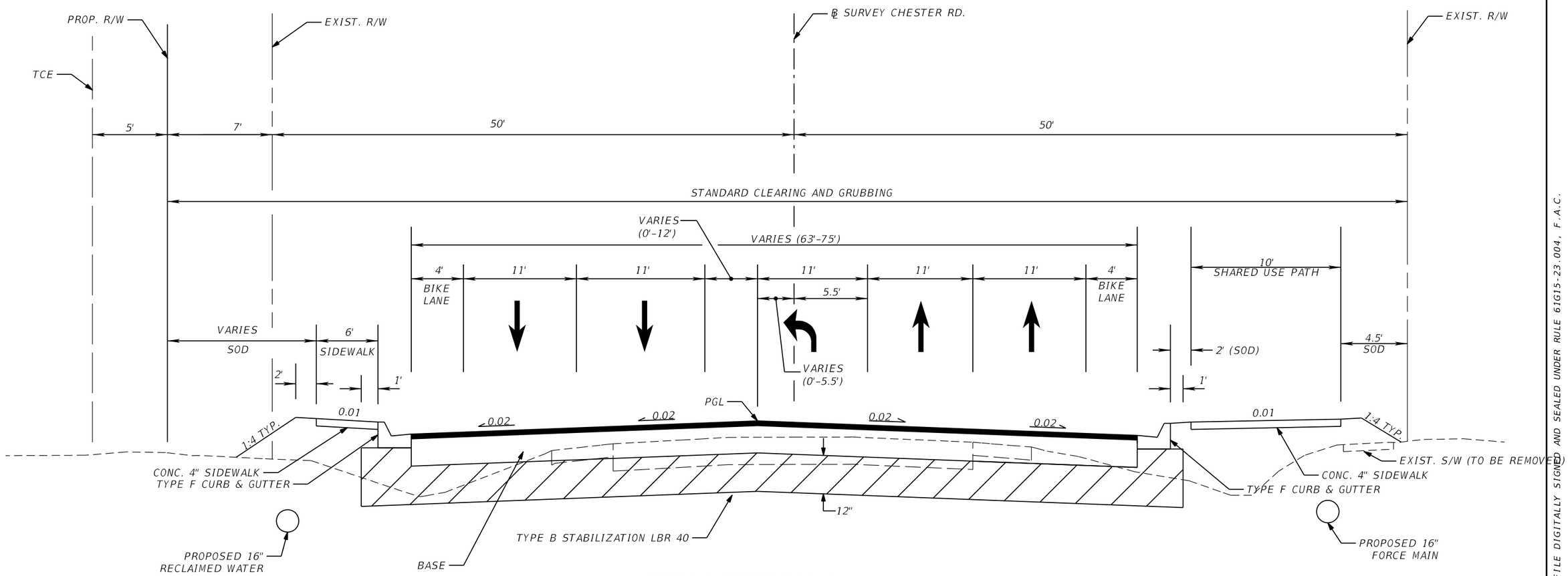
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TYPICAL SECTION

SHEET NO. 6

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TYPICAL SECTION NO. 4

CHESTER ROAD

STA. 1241+80.00 TO STA. 1247+20.00

NEW CONSTRUCTION

OPTIONAL BASE GROUP 6 WITH

TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1.5")

TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1.5") (PG 76-22)

POSTED SPEED = 35 MPH
DESIGN SPEED = 45 MPH

NOTE: ALL DISTURBED AREAS SHALL BE SODDED

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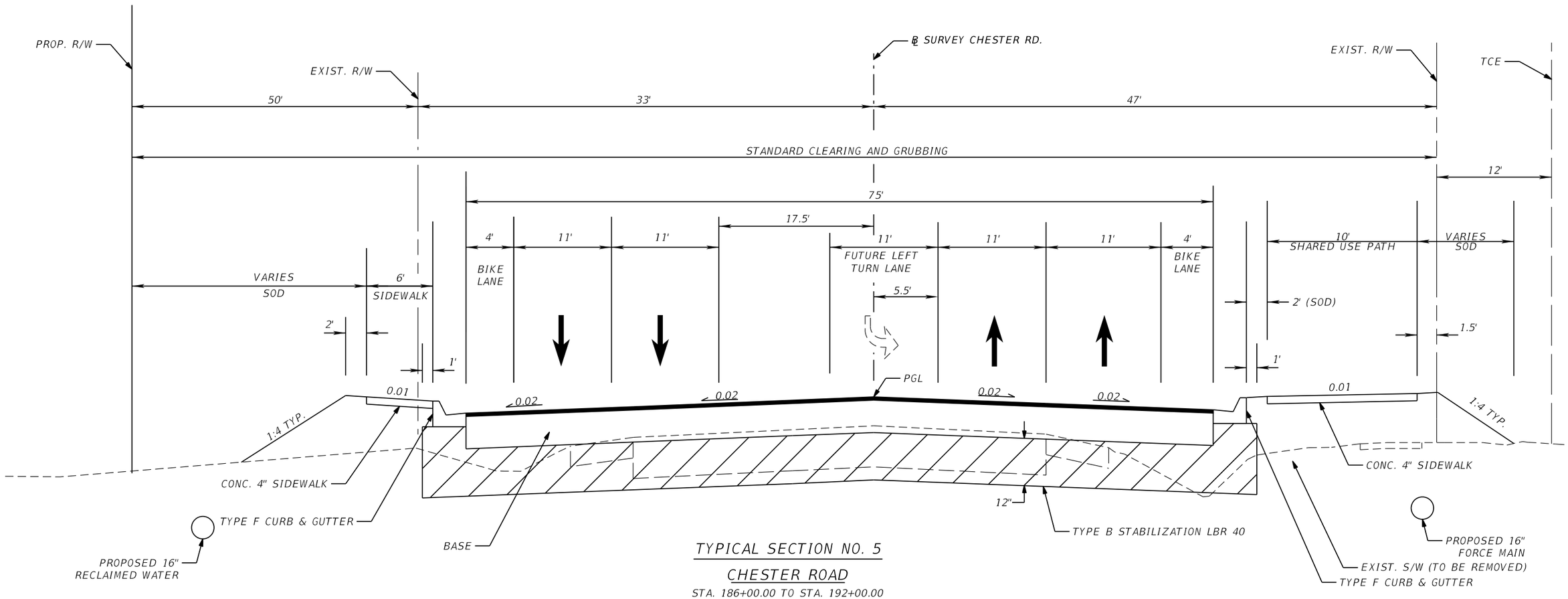
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TYPICAL SECTION

SHEET NO. 7

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TYPICAL SECTION NO. 5

CHESTER ROAD

STA. 186+00.00 TO STA. 192+00.00

NEW CONSTRUCTION

OPTIONAL BASE GROUP 6 WITH

TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1.5")

TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1.5") (PG 76-22)

NOTE: ALL DISTURBED AREAS SHALL BE SODDED

POSTED SPEED = 35 MPH
DESIGN SPEED = 45 MPH

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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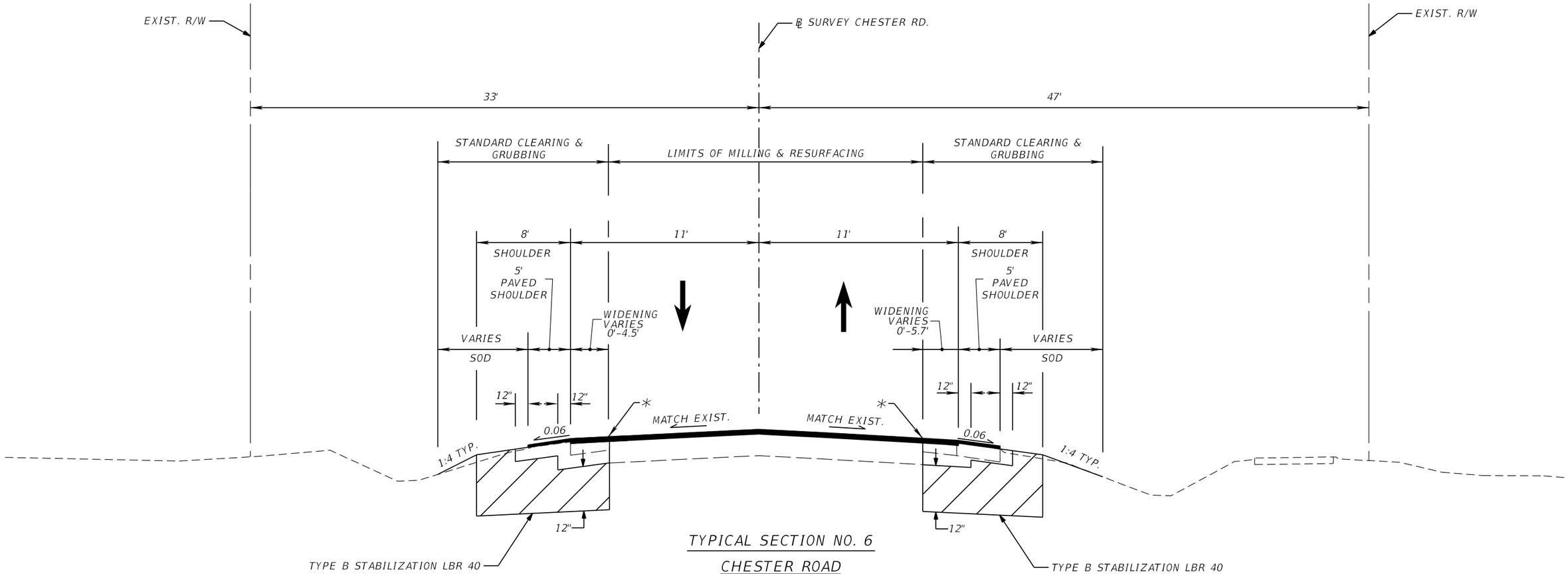
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TYPICAL SECTION

SHEET NO. 8

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TYPICAL SECTION NO. 6

CHESTER ROAD

STA. 192+00.00 TO STA. 195+00.00

WIDENING

OPTIONAL BASE GROUP 6 WITH

TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1 1/2")

AND TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1 1/2") (PG 76-22)

SHOULDER (NEW CONSTRUCTION)

OPTIONAL BASE GROUP 1 WITH

TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1 1/2") (PG 76-22)

MILLING

MILL EXIST. ASPHALT PAVEMENT (1 1/2" DEPTH)

RESURFACING

TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1 1/2") (PG 76-22)

POSTED SPEED = 35 MPH
DESIGN SPEED = 45 MPH

* NO ASPHALT JOINT IS PERMITTED AT THIS LOCATION

NOTE: FINAL ASPHALT LIFT SHALL BE CONSTRUCTED ACROSS THE WIDENING JOINT.

NOTE: ALL DISTURBED AREAS SHALL BE SODDED

REVISIONS			
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NASSAU COUNTY ENGINEERING

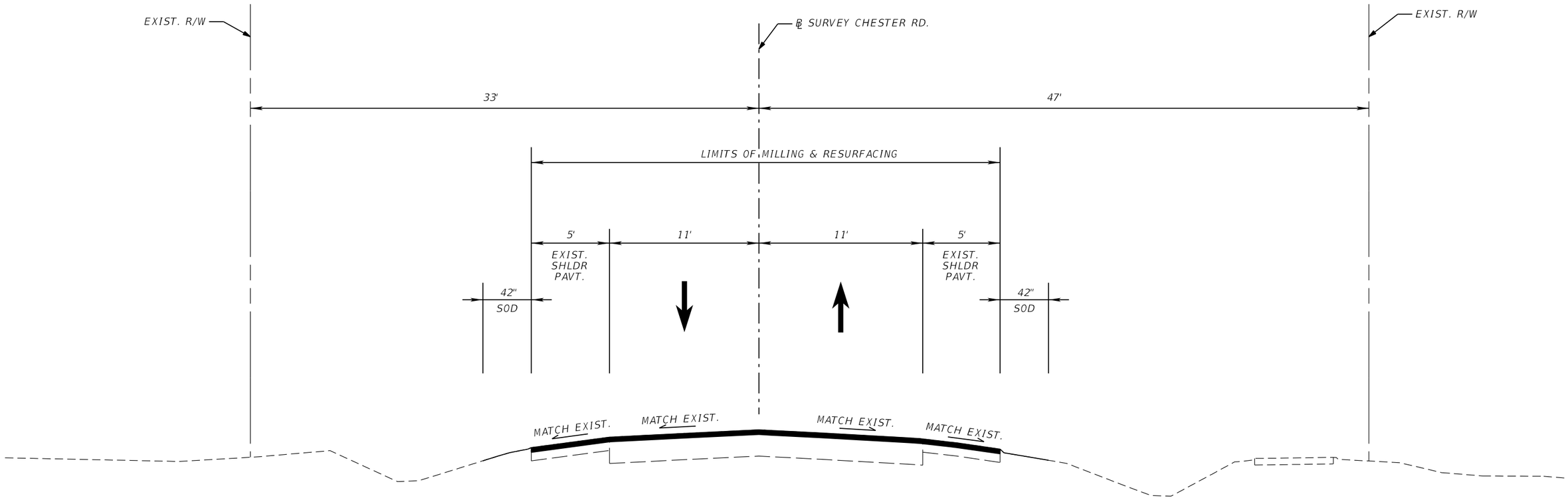
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TYPICAL SECTION

SHEET NO. 9

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TYPICAL SECTION NO. 7

CHESTER ROAD

STA. 195+00.00 TO STA. 197+05.00

POSTED SPEED = 35 MPH
DESIGN SPEED = 45 MPH

RESURFACING

TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1 1/2") (PG 76-22)

NOTE: ALL DISTURBED AREAS SHALL BE SODDED

MILLING

MILL EXIST. ASPHALT PAVEMENT (1 1/2" DEPTH)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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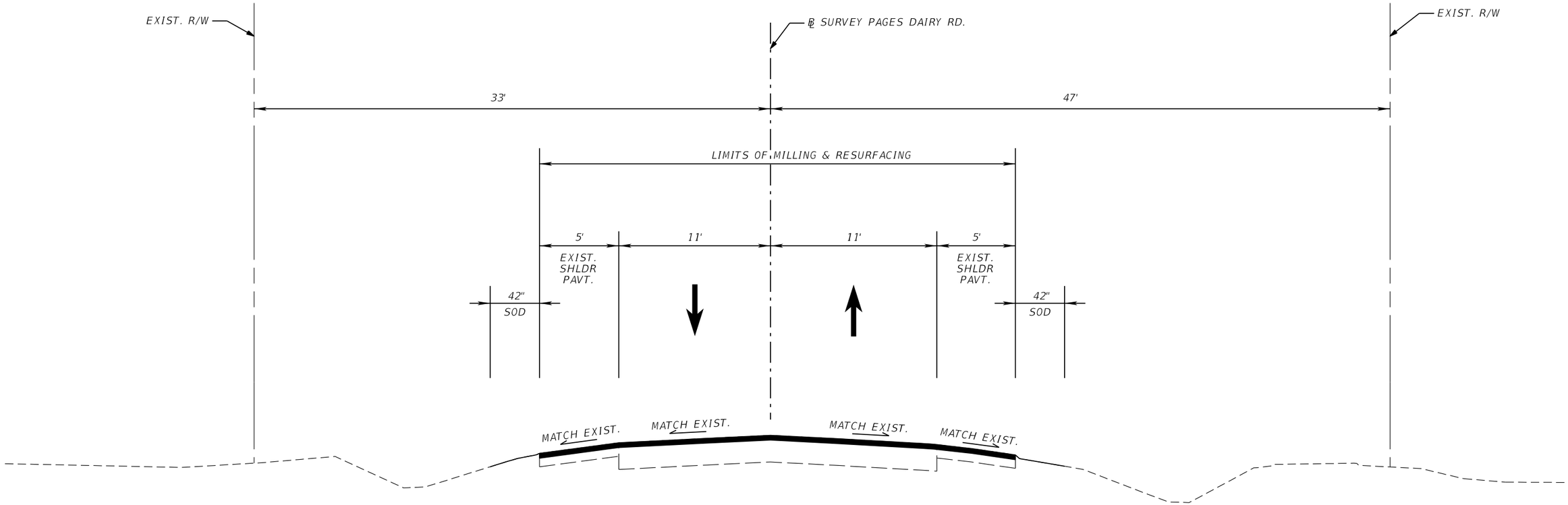
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	NASSAU	

TYPICAL SECTION

SHEET NO. 10

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TYPICAL SECTION NO. 8

PAGES DAIRY ROAD

STA. 235+00 TO STA. 238+70

RESURFACING

TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1 1/2") (PG 76-22)

MILLING

MILL EXIST. ASPHALT PAVEMENT (1 1/2" DEPTH)

NOTE: ALL DISTURBED AREAS SHALL BE SODDED

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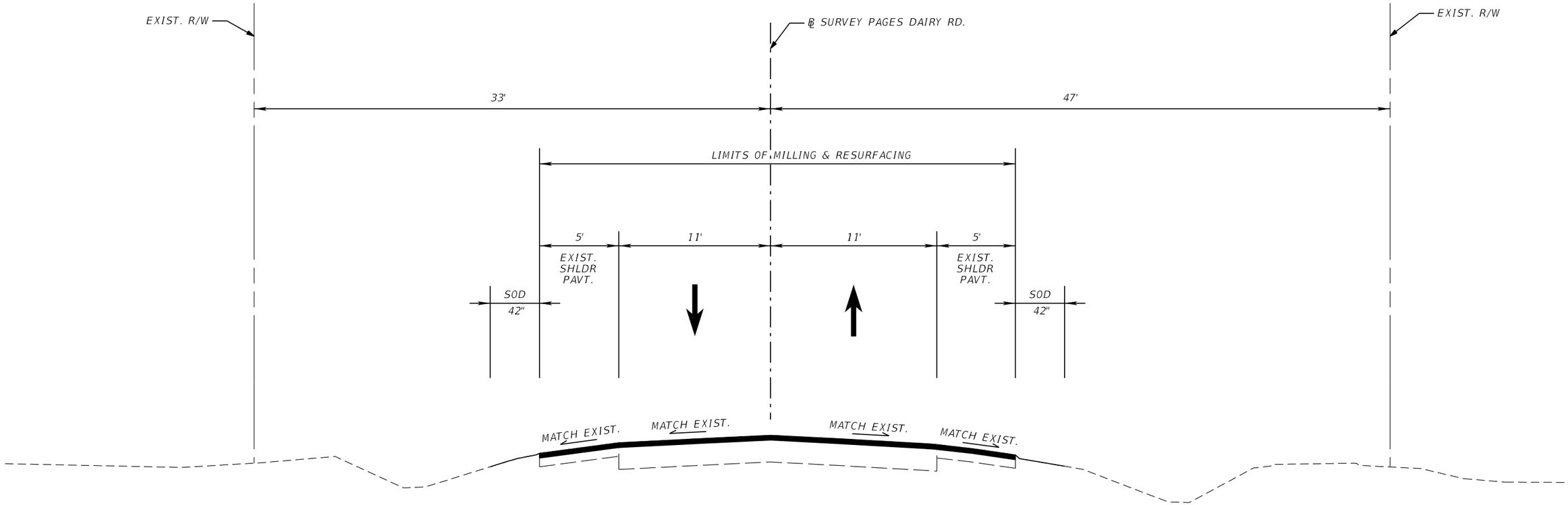
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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TYPICAL SECTION

SHEET NO. 11

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TYPICAL SECTION NO. 9

PAGES DAIRY ROAD

STA. 238+70 TO STA. 240+00

RESURFACING

TYPE SP STRUCTURAL COURSE (TRAFFIC C) (VARIABLE DEPTH 0" TO 2 1/2") (PG 76-22)

NOTE: ALL DISTURBED AREAS SHALL BE SODDED

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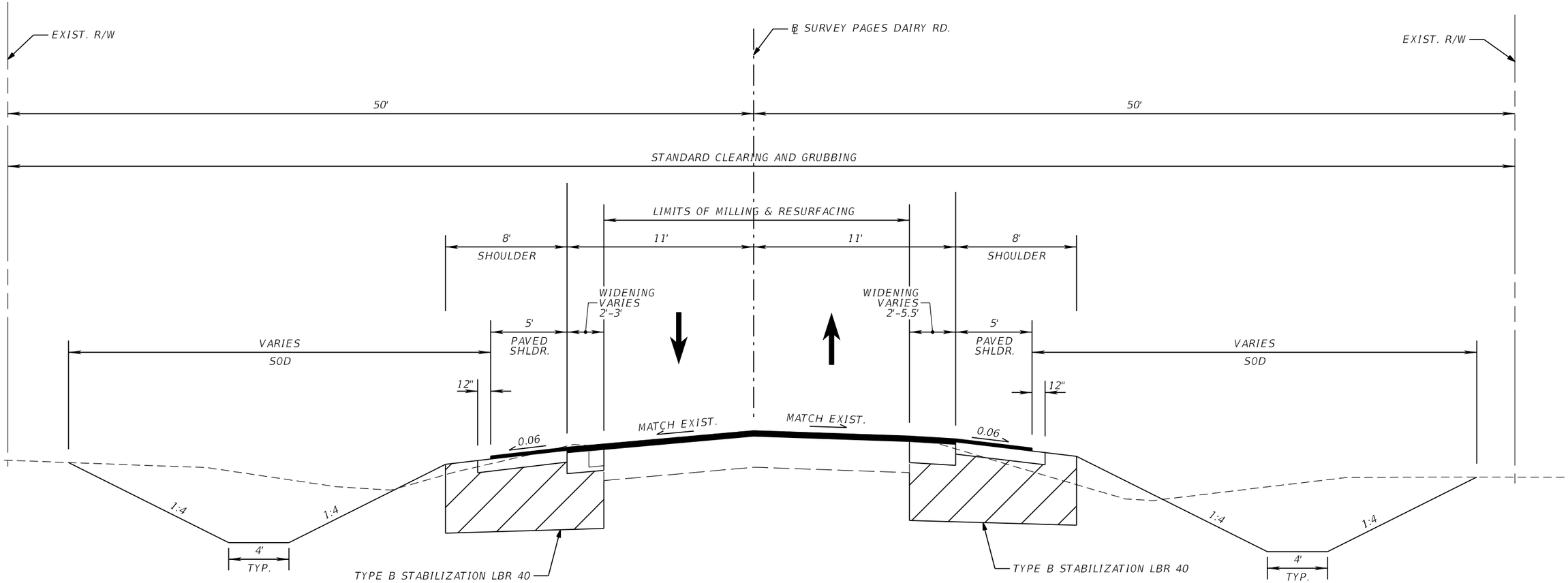
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TYPICAL SECTION

SHEET NO. 12

Danny 12/14/2023 8:15:35 AM J:\Transportation\Projects\17-01-0202_ChesterInt\roadway\TYPSRD01.DGN

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TYPICAL SECTION NO. 10

PAGES DAIRY ROAD

STA. 240+00 TO STA. 241+87

ROADWAY WIDENING

OPTIONAL BASE GROUP 6 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1 1/2")
AND TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1 1/2") (PG 76-22)

SHOULDER (NEW CONSTRUCTION)

OPTIONAL BASE GROUP 1 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1 1/2") (PG 76-22)

ROADWAY RESURFACING

TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1 1/2")
AND TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1 1/2") (PG 76-22)

MILLING

MILL EXIST. ASPHALT PAVEMENT (1/2" AVG. DEPTH)

NOTE: ALL DISTURBED AREAS SHALL BE SODDED

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

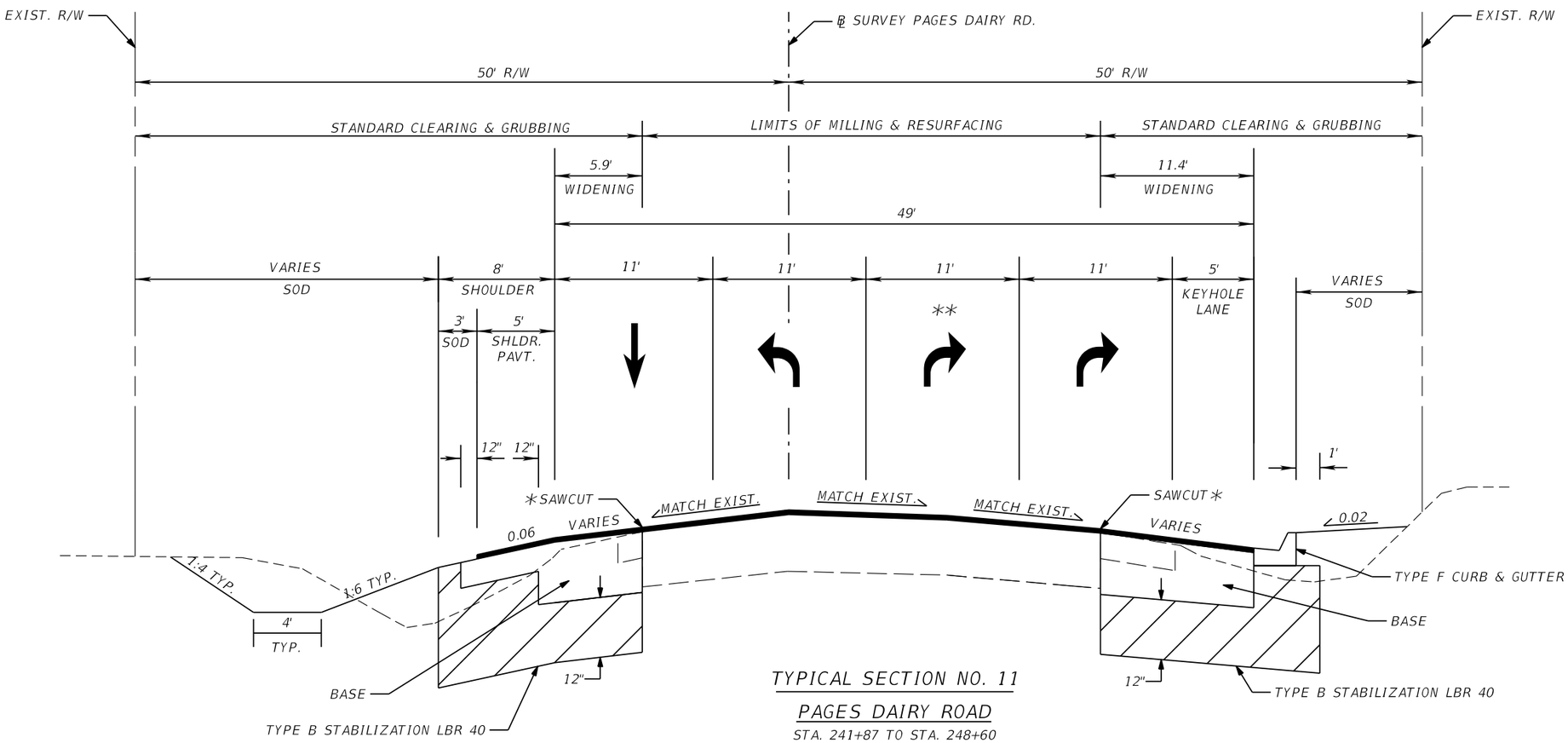
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TYPICAL SECTION

SHEET NO. 13

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TYPICAL SECTION NO. 11

PAGES DAIRY ROAD

STA. 241+87 TO STA. 248+60

POSTED SPEED = 45 MPH
DESIGN SPEED = 45 MPH

ROADWAY WIDENING

OPTIONAL BASE GROUP 6 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1 1/2")
AND TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1 1/2") (PG 76-22)

SHOULDER (NEW CONSTRUCTION)

OPTIONAL BASE GROUP 1 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1 1/2") (PG 76-22)

ROADWAY RESURFACING

STA. 241+87 TO STA. 248+00
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1 1/2")
AND TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1 1/2") (PG 76-22)

MILLING

MILL EXIST. ASPHALT PAVEMENT (1/2" AVG DEPTH)

ROADWAY RESURFACING

STA. 248+00 TO STA. 248+60
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (VARIABLE DEPTH 0" TO 3") (PG 76-22)

* NO ASPHALT JOINT IS PERMITTED AT THIS LOCATION

** FUTURE THRU LANE

NOTE: FINAL ASPHALT LIFT SHALL BE CONSTRUCTED ACROSS THE WIDENING JOINT.

NOTE: ALL DISTURBED AREAS SHALL BE SODDED

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

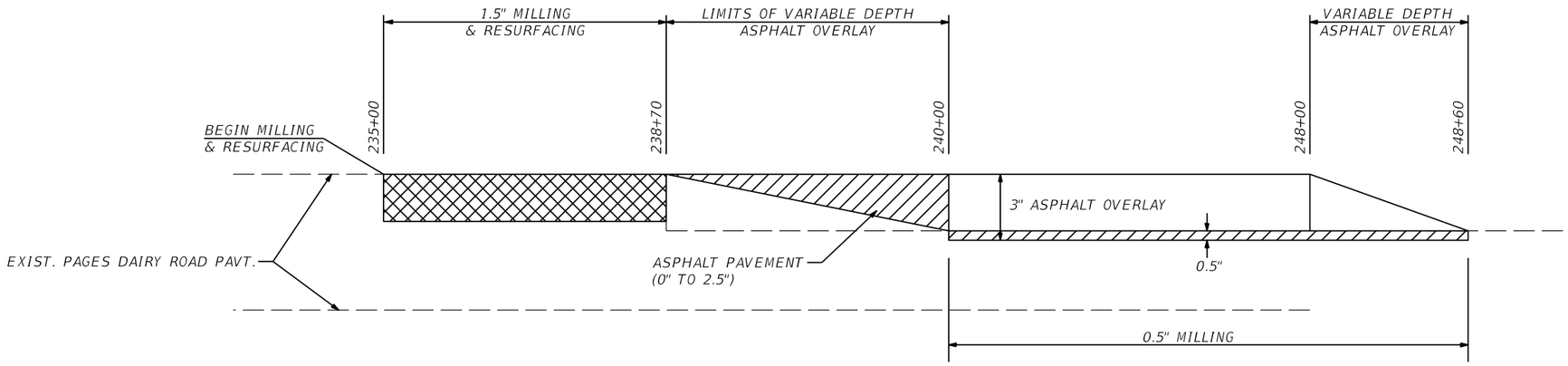
TYPICAL SECTION

SHEET NO. 14

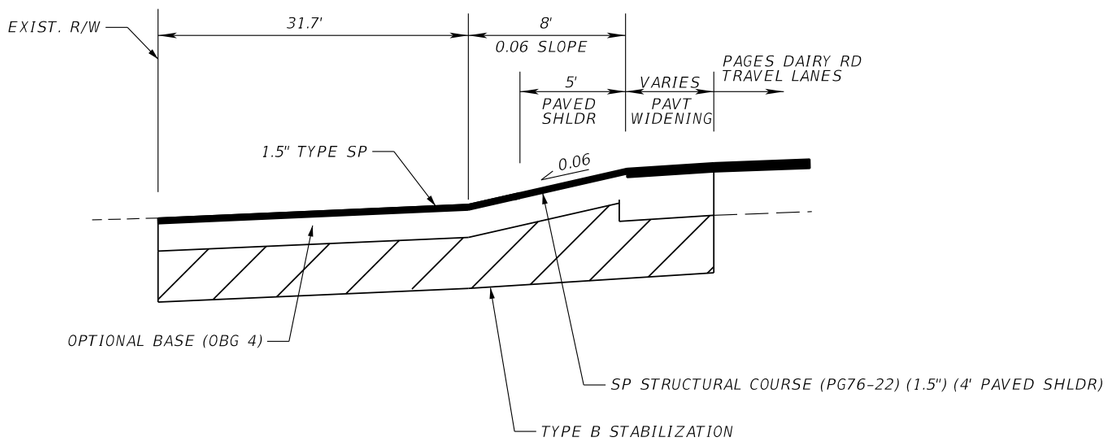
Danny 12/14/2023 8:15:35 AM J:\Transportation\Projects\17-01-0202_ChesterInt\roadway\TYPSRD01.DGN

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PAGES DAIRY ROAD
LONGITUDINAL PAVEMENT TRANSITION DETAIL



ASPHALT DRIVEWAY DETAIL
PAGES DAIRY ROAD STA. 241+60.00

N.T.S.

REVISIONS			
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10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
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FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TYPICAL DETAILS

SHEET NO. 15

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QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL MATERIAL					CURB INLETS						MANHOLES		DITCH BOTTOM INLETS		MITERED END SECTION		PERF. TURF	STRAIGHT CONCRETE ENDWALLS		REMARKS
						ROUND				Eliptical	J-2	P-1	P-2	P-4	J-8	P-8	C	D-MOD	Eliptical	ROUND		18"	24"	
						18"	24"	30"	36"	14" X 23"	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	14" x 23"	36"				
P	S-101	1237+00.00	LT.	Inlet, Pipe	1	140											1								
F																									
P	S-102	1238+42.77	LT.	Inlet, Pipe	1	77						1													
F																									
P	S-103	1238+52.29	LT.	Inlet, Pipe	1	259								1											
F																									
P	S-105	1238+40.00	RT.	Inlet, Pipe	1	263							1												
F																									
P	S-107	1241+06.25	RT.	Inlet, Pipe	1	106						1													
F																									
P	S-109	1242+15.00	LT.	Inlet, Pipe	1	72						1													
F																									
P	S-110	1242+15.00	RT.	Inlet, Pipe	1		297					1													
F																									
P	S-112	1245+15.00	LT.	Inlet, Pipe	1	78						1													
F																									
P	S-113	1245+15.00	RT.	Inlet, Pipe	1		182					1													
F																									
P	S-115	1247+00.00	LT.	Inlet, Pipe	1	82							1												
F																									
P	S-116	1247+00.00	RT.	Inlet, Pipe	1		71						1												
F																									
P	S-118	1247+73.76	RT.	Manhole, Pipe	1		22										1								
F																									
P	S-119	1247+73.76	RT.	Endwall	1																			1	
F																									
P	S-128	1247+84.76	RT.	Endwall, Pipe	1	128																	1		
F																									
P	S-129	1248+21.25	LT.	Endwall	1																		1		
F																									
P	S-130	1248+57.73	LT.	Manhole	1												1								
F																									
P	S-131	1248+87.44	LT.	Endwall, Pipe	1		48																	1	
F																									
P	S-132	1248+94.40	LT.	Inlet, Pipe	1					36				1											
F																									
P	S-133	1248+29.16	RT.	Endwall	1																			1	
F																									
P	S-201	186+00.00	RT.	Inlet, Pipe	1					85			1												
F																									
P	S-202	186+10.33	LT.	Inlet, Pipe	1			187					1												ALT A; 4.0' DIA
F																									
P	S-203	188+00.00	LT.	Manhole, Pipe	1			162									1								
F																									
P	S-204	189+65.00	LT.	Inlet, Pipe	1				80		1														4'x4' BOTTOM
F																									
Sheet Summary				P Total		1205	620	349	80	121	1	6	5	2	0	3	1	0	0	0	0	2	3		
				F Total																					

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 16

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL MATERIAL					CURB INLETS				MANHOLES		DITCH BOTTOM INLETS		MITERED END SECTION		PERF. TURF	STRAIGHT CONCRETE ENDWALLS		REMARKS
						ROUND				Eliptical	J-2	P-1	P-2	P-4	J-8	P-8	C	D-MOD	Eliptical	ROUND		18"	24"	
						18"	24"	30"	36"	14" X 23"	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	14" x 23"	36"				
P	S-205	189+65.00	RT.	Inlet, Pipe	1	83							1											
F																								
P	S-206	190+45.00	LT.	Manhole, Pipe	1				150						1									5'x5' BOTTOM
F																								
P	S-207	191+50.00	RT.	Inlet, Pipe	1	182						1												
F																								
P	S-208	193+00.00	LT.	Inlet, Pipe	1	253											1							
F																								
P	S-209	193+50.00	LT.	Inlet, Pipe	1	198											1							
F																								
P	S-210	190+45.00	LT.	Manhole, Pipe	1				176						1									5.0' DIA BOTTOM
F																								
P	S-211	189+73.93	LT.	Manhole, Pipe	1				107						1									5.0' DIA BOTTOM
F																								
P	S-212	189+73.54	LT.	Manhole, Pipe	1				36						1									5'x5' BOTTOM
F																								
P	S-213	189+33.57	LT.	MES, Pipe	1				0											1				
F																								
P	S-300	241+00.00	RT.	Inlet, Pipe	1	249											1							
F																								
P	S-301	243+50.00	RT.	Inlet, Pipe	1	197						1												
F																								
P	S-302	245+50.00	RT.	Inlet, Pipe	1	247						1												
F																								
P	S-303	247+50.00	LT.	Inlet, Pipe	1	47											1							
F																								
P	S-304	248+00.00	RT.	Inlet, Pipe	1		67					1												
F																								
P	S-305	248+00.00	LT.	Manhole, Pipe	1			70								1								ALT A; 4.0' DIA
F																								
P	S-306	248+70.74	RT.	Inlet, Pipe	1	67						1												
F																								
P	S-307	241+12.26	RT.	MES, Pipe	1					80									1					
F																								
P	S-308	242+00.11	RT.	MES	1														1					
F																								
P	S-401	187+76.23	LT.	Inlet	1	73												1						
F																								
P	S-402	187+05.50	LT.	Manhole, Pipe	1	144										1								
F																								
P	S-403	186+62.11	LT.	Manhole, Pipe	1	78										1								
F																								
P	S-404	186+52.47	LT.	Inlet	1	137											1							
F																								
P	S-1	1234+77.24	RT.	Inlet	1												1							
F																								
Sheet Summary				P Total		1955	67	70	469	80	0	5	1	0	4	3	6	1	2	1	0	0	0	
				F Total																				
Final Summary				P Total		3160	687	419	549	201	1	11	6	2	4	6	7	1	2	1	0	2	3	
				F Total																				

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10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 17

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

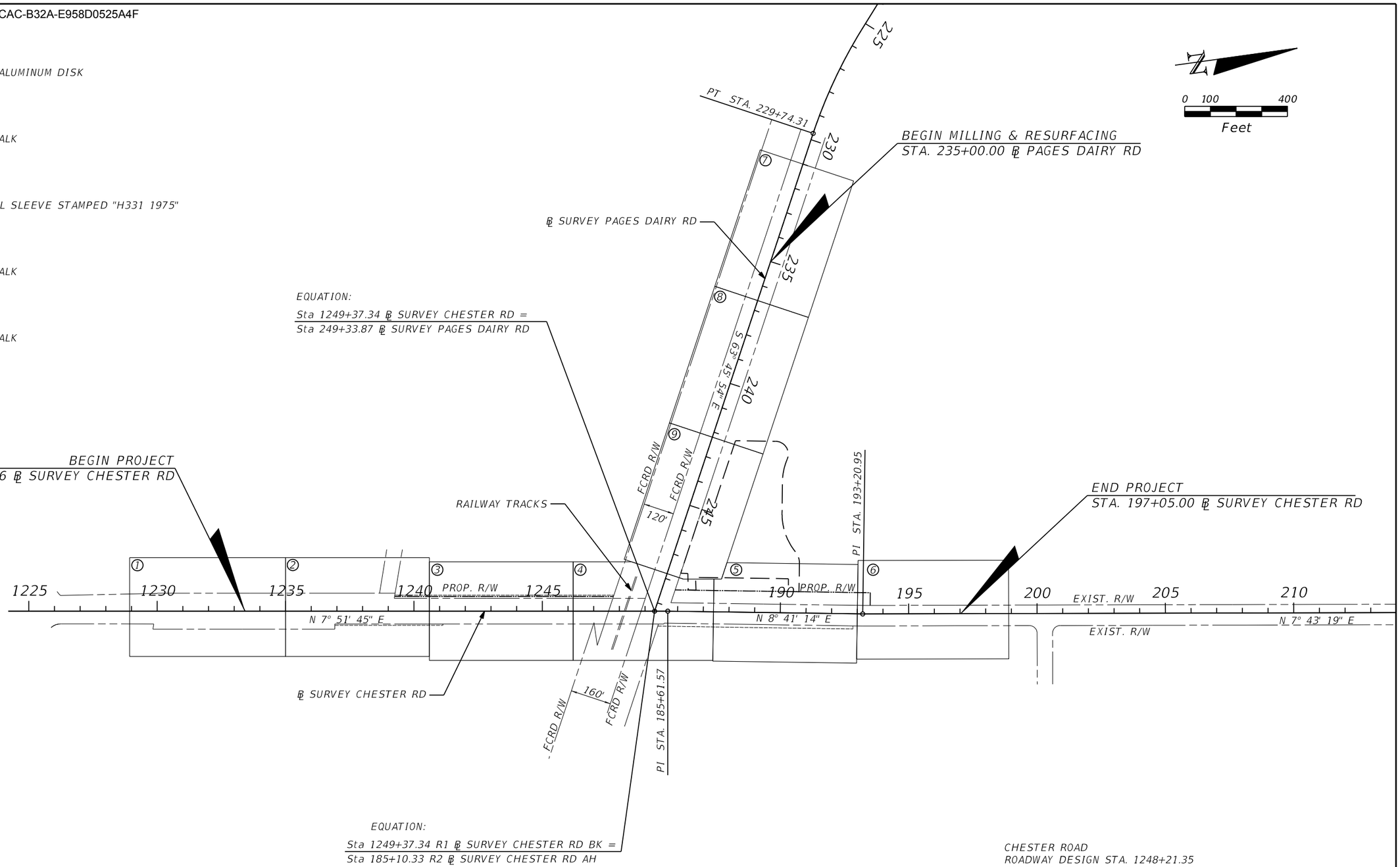
BM1
STA. 1233+25.03
ELEV. 29.476
CONCRETE MONUMENT W/ ALUMINUM DISK

TBM1
STA. 1242+94.23
ELEV. 29.306
X-CUT IN BACK OF SIDEWALK

BM2
STA. 1247+75.20
ELEV. 26.580
BRASS DISK 4" DIA. STEEL SLEEVE STAMPED "H331 1975"

TBM2
STA. 195+10.47
ELEV. 28.178
X-CUT IN BACK OF SIDEWALK

TBM3
STA. 205+93.20
ELEV. 28.761
X-CUT IN BACK OF SIDEWALK



CHESTER ROAD
ROADWAY DESIGN STA. 1248+21.35
FIRST COAST RAILROAD INC. (FCRD)
AKMD VAL-MAP STA. TBD
AAR\DOT #620804A
RR MP: 39.06

REVISIONS			
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NASSAU COUNTY ENGINEERING

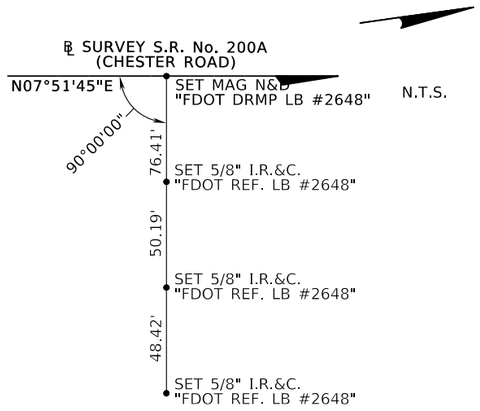
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

PROJECT LAYOUT

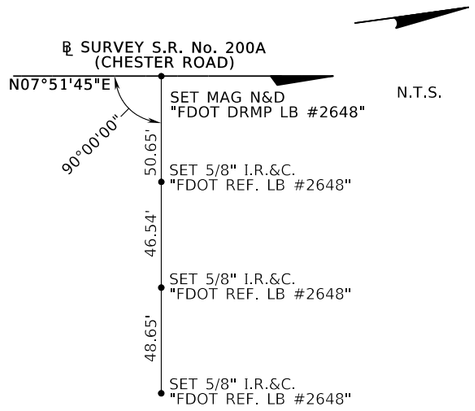
SHEET NO. 18

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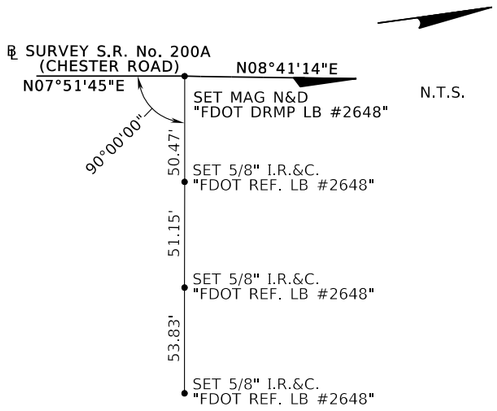
DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



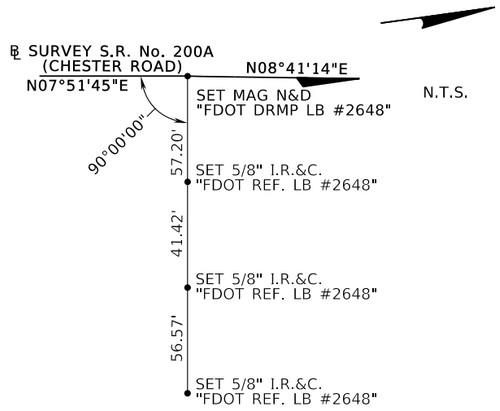
STA. 1230+00.00
℄ SURVEY S.R. No. 200A
(CHESTER ROAD)



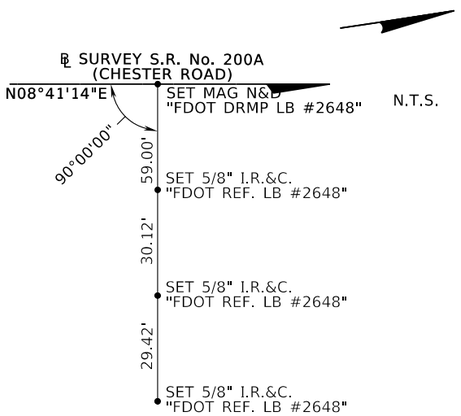
STA. 1240+00.00
℄ SURVEY S.R. No. 200A
(CHESTER ROAD)



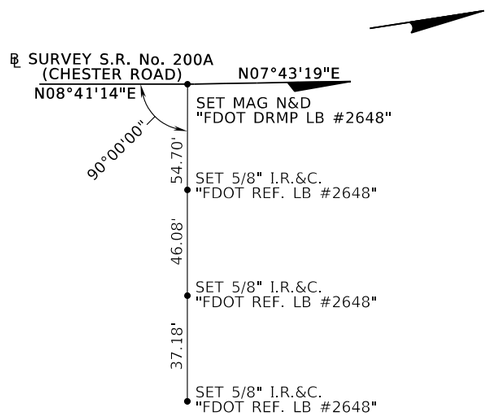
P.I. STA. 1249+37.34/
P.O.T. STA. 185+10.33
℄ SURVEY S.R. No. 200A
(CHESTER ROAD)



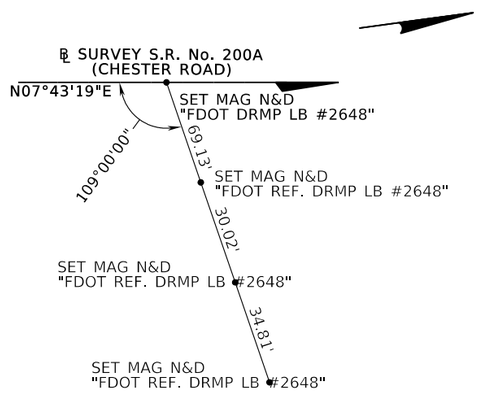
P.I. STA. 185+61.56
℄ SURVEY S.R. No. 200A
(CHESTER ROAD)



STA. 190+00.00
℄ SURVEY S.R. No. 200A
(CHESTER ROAD)



P.I. STA. 193+20.95
℄ SURVEY S.R. No. 200A
(CHESTER ROAD)

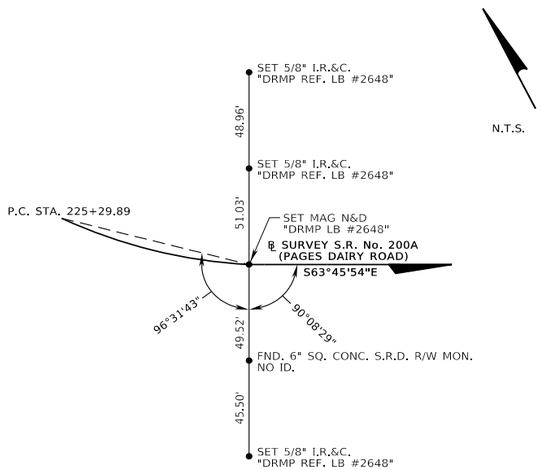


STA. 200+00.00
℄ SURVEY S.R. No. 200A
(CHESTER ROAD)

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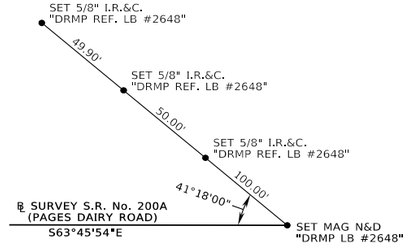
REVISIONS				Connelly & Wicker Inc. 10060 Skinner Lake Dr., Suite 500 Jacksonville, FL 32246 Certification of Authorization No. 3650	NASSAU COUNTY ENGINEERING			PROJECT CONTROL (01)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	Engineer of Record: Daniel R. Waltermyer, P.E. FL P.E. No. 73903	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		19
						NASSAU			

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N.T.S.

P.T. STA. 229+74.31
℄ SURVEY S.R. No. 200A
(PAGES DAIRY ROAD)



N.T.S.

P.I. STA. 249+33.87
℄ SURVEY S.R. No. 200A
(PAGES DAIRY ROAD)

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FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

PROJECT CONTROL (02)

SHEET NO. 20

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

GENERAL NOTES:

1. THE BENCHMARK DATUM USED FOR THIS PROJECT IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)
2. EXISTING DRAINAGE STRUCTURES WITHIN CONSTRUCTION LIMITS SHALL BE REMOVED UNLESS OTHERWISE NOTED.
3. IF ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, IMMEDIATELY NOTIFY THE ENGINEER IN CONJUNCTION WITH THE DISTRICT LOCATION SURVEYOR.
4. THE CONTRACTOR SHALL TAKE RESPONSIBILITY FOR OBTAINING ALL REQUIRED PERMITS INCLUDING ANY DEWATERING PERMITS FOR DEWATERING OPEARTIONS ON THE PROJECT.
5. EROSION CONTROL DEVICES SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT.
6. ALL LANES ON CHESTER ROAD & PAGES DAIRY ROAD MUST BE OPEN FOR TRAFFIC DURING AN EVACUATION NOTICE OF A HURRICANE, OR OTHER CATASTROPHIC EVENTS, AND SHALL REMAIN OPEN FOR THE DURATION OF THE EVACUATION OR EVENT, AS DIRECTED BY THE PROJECT ENGINEER. A HURRICANE PLAN IS REQUIRED AT THE PRE-CONSTRUCTION MEETING
7. SUSPENSION OF CONTRACTOR'S OPERATIONS – HOLIDAYS AND SPECIALS EVENTS, SPECIAL EVENT DAYS FOR THE PROJECT INCLUDE:

   -THURSDAY BEFORE THROUGH THE CLOSE OF THE TPC GOLF TOURNAMENT
   -FRIDAY BEFORE THROUGH THE SUNDAY AFTER THE FLORIDA-GEORGIA FOOTBALL GAME
   -THE DAY OF THE JAGUAR HOME FOOTBALL GAMES (PRESEASON, REGULAR INCLUDING MONDAY AND THURSDAY NIGHT AND POSTSEASON)
   -THE DAY BEFORE THROUGH THE DAY AFTER THE GATOR BOWL
   -THE DAY OF THE FCAT
   -THE DAY OF KATIE'S RIDE FOR LIFE
   -THE SATURDAY AND SUNDAY OF THE ISLE OF EIGHT FLAGS SHRIMP FESTIVAL
   -THE FRIDAY THROUGH SUNDAY OF THE AMELIA ISLAND CONCOURS D'ELEGANCE CAR SHOW
8. SIGNING AND PAVEMENT MARKINGS TO BE DONE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
9. MAINTAIN EXISTING STREET NAME SIGNS FOR 911 PURPOSES.
10. ALIGNMENT OF PROPOSED PAVEMENT MARKINGS SHALL MATCH EXISTING PAVEMENT MARKING AT PAVEMENT MARKINGS LIMITS OF CONSTRUCTION. ALL PAVEMENT MARKINGS SHALL BE EXTENDED A MINIMUM OF 50 FEET WHERE POSSIBLE BEYOND THE RESURFACING LIMITS FOR A SMOOTH TRANSITION.
11. TYPE II OBJECT MARKERS SHALL BE PLACED FOR STRUCTURE NUMBERS S-101, S-208, S-209, S-300, & S-303. INSTALL IN ACCORDANCE WITH THE MUTCD AND FDOT STANDARD PLANS.
12. SOD SHALL BE FULLY ESTABLISHED AND HAVE A COVERAGE OF AT LEAST70% PRIOR TO FINAL ACCEPTANCE. CONTRACTOR SHALL CERTIFY THAT ALL SOD WITHIN THE COUNTY RIGHT-OF-WAY SHALL BE BERMUDA AND SHALL BE FREE OF NOXIOUS WEEDS & GRASSES, INCLUDING TROPICAL SODA APPLE. CERTIFICATION WILL BE PROVIDED TO NASSAU COUNTY PRIOR TO INSTALLATION.
13. ALL WORK PERFORMED WITHIN THE COUNTY RIGHT-OF-WAY, MATERIALS, AND TESTING SHALL BE IN COMPLETE ACCORDANCE WITH THE CURRENT REVISION OF NASSAU COUNTY'S ORDINANCE 99-17 AND ALL CURRENT NASSAU COUNTY STANDARD DETAILS. THE CONTRACTOR SHALL COMPLY WITH CURRENT FLORIDA ACCESSIBILITY STANDARDS FOR ALL WORK ON THIS PROJECT. THE MOST CURRENT EDITIONS OF THE FOLLOWING PUBLICATIONS WILL BE USED IF NOT ADDRESSED BY NASSAU COUNTY STANDARDS:

    FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (MOST RECENT VERSION)

    FDOT STANDARD PLANS (MOST RECENT VERSION)

    FDOT DESIGN MANUAL (FDM) (MOST RECENT VERSION)

    FDOT FLEXIBLE PAVEMENT DESIGN MANUAL FOR NEW CONSTRUCTION AND PAVEMENT REHABILITATION

1.4 ALL WORK SHALL BE PERFORMED IN A SAFE MANNER. ALL SAFETY RULES AND GUIDELINES OF O.S.H.A. SHALL BE FOLLOWED. THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ANY INJURIES TO HIS EMPLOYEES AND ANY DAMAGE TO PRIVATE PROPERTY OR PERSONS DURING THE COURSE OF THIS PROJECT. ALL COSTS ASSOCIATED WITH COMPLYING WITH O.S.H.A. REGULATIONS AND THE FLORIDA TRENCH SAFETY ACT MUST BE INCLUDED IN THE CONTRACTOR'S BID.

15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE JOB SITE PRIOR TO PREPARING THE BID FOR THE PURPOSE OF FAMILIARIZING HIMSELF WITH THE NATURE AND THE EXTENT OF THE WORK AND LOCAL CONDITIONS WHICH MAY AFFECT THE WORK TO BE PERFORMED AND THE EQUIPMENT, LABOR, AND MATERIALS REQUIRED. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF COMPLETE PERFORMANCE UNDER THE CONTRACT. THE CONTRACTOR IS ALSO REQUIRED TO TAKE COLOR PHOTOGRAPHS AND COLOR VIDEO OF THE PROJECT AREA TO RECORD EXISTING CONDITIONS PRIOR TO CONSTRUCTION, AND TO AID IN FUTURE COMPLAINTS THAT MAY OCCUR DURING THE CONSTRUCTION OF THE PROJECT.
16. THE CONTRACTOR WILL CONTACT WITH AN INDEPENDENT TESTING LABORATORY TO PERFORM MATERIAL TESTING AND SOIL TESTING IN ACCORDANCE WITH NASSAU COUNTY AND/OR FDOT REQUIREMENTS WITH PRIOR ADVANCE NOTICE TO NASSAU COUNTY AND/OR OWNER C.E.I.'S. THIS SHALL INCLUDE DENSITY TESTS FOR ASPHALT, CONCRETE TESTING, AND ALL OTHER MATERIAL TESTING.
17. ENGINEER OF RECORD RECOMMENDATIONS FOR MAINTENANCE OF TRAFFIC ARE LOCATED ON SHEETS 119-178. CONTRACTOR SHALL PROVIDE MAINTENANCE OF TRAFFIC PLANS TO NASSAU COUNTY ENGINEERING FOR APPROVAL PRIOIR TO IMPLEMENTATION DURING CONSTRUCTION.
18. ALL DEBRIS RESULTING FROM ALL ACTIVITIES SHALL BE LEGALLY DISPOSED OF BY THE CONTRACTOR.
19. THE CONTRACTOR SHALL COORDINATE WITH NASSAU COUNTY ROAD AND BRIDGE AT 904-530-6175, AND DELIVER MILLINGS AND CONCRETE TO THE FOLLOWING ADDRESS:

    86200 GENE LASSERRE BOULEVARD
    YULEE, FL 32097

    THE CONTRACTOR SHALL NOTIFY ROAD AND BRIDGE AT LEAST 10 DAYS IN ADVANCE OF MILLING OPERATIONS. MILLINGS AND ANY CLEAN CONCRETE SHALL BE TAKEN TO NASSAU COUNTY'S GENE LASSERRE YARD.
20. ANY DRIVEWAYS BROKEN OR CRACKED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AT THE DIRECTION OF THE COUNTY PROJECT ENGINEER AT THE CONTRACTOR'S EXPENSE.
21. A PRE-CONSTRUCTION MEETING IS REQUIRED TO BE ATTENDED BY NASSAU COUNTY REPRESENTATIVES, THE CONTRACTOR, THE COUNTY'S C.E.I., ENGINEER OF RECORD, CONTRACTOR'S TESTING FIRM, FPL, FPU (GAS), AT&T, COMCAST, JEA, RAILROAD AND ANY SUBCONTRACTORS INVOLVED IN THE PROJECT.
22. THE CONTRACTOR IS REQUIRED TO SUBMIT A DISASTER PREPAREDNESS PLAN AT THE PRE-CONSTRUCTION MEETING.
23. ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION BY GRADING AND/OR SODDING THE DISTURBED AREA.
24. ACCESS TO DRIVEWAYS OR SIDE STREETS SHALL BE MAINTAINED AT ALL TIMES.
25. (2) TWO 60" X 48" PROJECT SIGNS WITH THE FOLLOWING CRITERIA SHALL BE PROVIDED AND POSTED BY THE CONTRACTOR DURING CONSTRUCTION:

    PROJECT NAME (2.5" FHWA SERIES C FONT) , TWO 10" DIAMETER NASSAU COUNTY SEALS, COMMISSIONERS' NAMES AND DISTRICTS (2.5" FHWA SERIES C FONT), CONTRACTOR'S NAME (1.5" FHWA SERIES C FONT), ENGINEER'S NAME (1.5" FHWA SERIES C FONT), AND A NOTICE STATING "FOR MORE INFO CONTACT ENGINEERING AT (904) 530-6225 (1.5" FHWA SERIES C FONT).
26. THE CONTRACTOR SHALL PROVIDE AND INSTALL SILT BARRIERS AND/OR EROSION CONTROLS TO PREVENT EROSION AND POLLUTION OF WATER IN ACCORDANCE WITH FDOT SPECIFICATIONS AND AS NEEDED AND DIRECTED BY THE COUNTY PROJECT ENGINEER.
27. ALL THERMOPLASTIC MATERIALS SHALL BE FREE FROM LEAD-BASED MATERIALS.

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

GENERAL NOTES (1)

SHEET NO. 21

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GENERAL NOTES (CONTINUED):

28. LANE CLOSURES ARE PERMITTED BETWEEN 9:00 AM - 3:30 PM TO AVOID PEAK HOURS AND SCHOOL BUS TRAFFIC. NIGHT WORK, WEEKEND AND HOLIDAY WORK SHALL BE REQUESTED BY THE CONTRACTOR AND APPROVED BY NASSAU COUNTY PRIOR TO IMPLEMENTATION. ANY ROAD CLOSURES MUST BE COORDINATED WITH NASSAU COUNTY FOR ADEQUATE ADVERTISING AND EMERGENCY SERVICE NOTIFICATIONS.

29. A SCHEDULE WITH CRITICAL PATHS SHALL BE PROVIDED TO NASSAU COUNTY AT THE PRE-CONSTRUCTION MEETING AND ANY UPDATES MUST BE SUBMITTED TO NASSAU COUNTY AND/OR THEIR REPS.

30. THE LIMITS OF RESURFACING MAY NEED TO BE EXTENDED DUE TO INCIDENTAL DAMAGE CAUSED DURING CONSTRUCTION.

31. A PRE-CONSTRUCTION VIDEO OF THE ENTIRE LIMITS OF THE JOB SHALL BE GIVEN TO NASSAU COUNTY AT THE PRE-CONSTRUCTION MEETING.

32. AS-BUILTS ARE REQUIRED PER NASSAU COUNTY AS-BUILT CHECK LIST.

33. STORM DRAINS ARE TO BE VIDEOED AND LASER PROFILED PRIOR TO FINAL INSPECTION.

34. SHOP DRAWINGS ARE TO BE APPROVED BY THE ENGINEER OF RECORD PRIOR TO PRE-CONSTRUCTION MEETING WITH NASSAU COUNTY ENGINEERING SERVICES.

35. ALL WORK SHALL BE PREFORMED IN ACCORDANCE WITH APPLICABLE OSHA STANDARDS.

36. ALL STORMWATER DRAINAGE PIPING SHALL BE RCP

37. ADA MATS SHALL BE YELLOW WET SET IN CONCRETE.

37. RPMS SHALL BE ADDED TO THE ROADWAY ADJACENT TO EACH FIRE HYDRANT.

UTILITY GENERAL NOTES:

1. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. EXISTING UTILITIES SHALL REMAIN UNLESS OTHERWISE NOTED.

2. THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS THROUGH SUNSHINE STATE ONE CALL OF FLORIDA AT (800) 432-4770 OR CALL 811, AS WELL AS ALL UTILITY OWNERS LISTED BELOW. TWO BUSINESS DAYS IN ADVANCE OF BEGINNING CONSTRUCTION ON THE JOB SITE.

COMPANY	CONTACT	TELEPHONE NUMBERS
COMCAST CABLE COMMUNICATIONS	LARRY K. WINBURN	(904) 380-7574
JACKSONVILLE ELECTRIC AUTHORITY	BRENDA FORBES	(904) 665-4465
ATT / DISTRIBUTION	DINO FARRUGGIO	(561) 997-0240
FLORIDA POWER AND LIGHT	ERNESTO DOMINGUEZ	(954) 581-3088
FPU- PENINSULA PIPELINE	VICKI BRAND	(904) 362-0704

FIRST COAST RAILROAD GENERAL NOTES

1. THE RAILWAY RESERVES THE RIGHT TO COMMENT/ APPROVE THE ROADWAY AUTHORITY CONSTRUCTION PLANS AFFECTING THE RAILWAY PROPERTY OR FACILITIES ANY TIME PRIOR TO THE START OF CONSTRUCTION REGARDLESS IF PREVIOUS CONSTRUCTION PLAN APPROVAL HAS BEEN GRANTED. THIS RESERVATION WILL BE INVOKED ONLY IF THE RAILWAY HAS EITHER BY INTERNAL POLICY OR MANDATE OF LAW REVISED ITS STANDARDS AS APPLICABLE TO THIS PROJECT. THE RAILWAY SHALL NOTIFY THE ROADWAY AUTHORITY OF CHANGES AS FAR AS POSSIBLE IN ADVANCE OF CONSTRUCTION. THE ROADWAY AUTHORITY SHALL, PRIOR TO THE START OF CONSTRUCTION, VERIFY WITH THE RAILWAY IF ANY REVISIONS TO STANDARDS ARE APPLICABLE TO THIS PROJECT.

2. THE FOLLOWING ITEMS WILL APPLY TO ALL WORK PERFORMED WITHIN RAILWAY PROPERTY:
   - ALL MOVEMENTS OF EQUIPMENT WITHIN RAILWAY PROPERTY MUST BE COORDINATED WITH THE RAILWAY WATCHMAN.
   - DURING TRAIN MOVEMENTS THROUGH THE PROJECT LOCATION, VEHICLES, EQUIPMENT, AND PERSONNEL WILL NOT BE ALLOWED TO OPERATE.
   - ANY DAMAGE CAUSED BY THE ROADWAY WORK TO THE TRACK OR RAILWAY PROPERTY WILL REQUIRE REPAIR IMMEDIATELY UPON NOTIFICATION FROM THE RAILWAY OR THEIR DESIGNATED PERSONNEL OR CONTRACTOR. IF THE DAMAGE AFFECTS THE TRACK, TRACK STRUCTURE, RAILWAY FACILITIES, OR TRAIN OPERATIONS AS DETERMINED BY THE RAILWAY, THE REPAIRS WILL BE PERFORMED BY THE RAILWAY AT THE ROADWAY AUTHORITIES EXPENSE INCLUDING ALL ASSOCIATED COSTS OF DELAYS OF THE RAILWAY.

3. THE ROADWAY AUTHORITY, OR DESIGNATED CONTRACTOR, SHALL NOT BE ALLOWED TO PERFORM TEMPORARY LANE CLOSURES, LANE SHIFTS, OR DETOUR ROUTES WITHIN THE RAILWAY RIGHT-OF-WAY WITHOUT PRIOR AUTHORIZATION FROM THE RAILWAY'S SIGNAL DEPARTMENT PERSONNEL. THE ROADWAY AUTHORITY WILL BE REQUIRED TO CONTACT THE FOLLOWING RAILWAY PERSONNEL TO COORDINATE THIS PHASE OF THE PROJECT:

   FIRST COAST RAILROAD INC. (FCRD)
   DANIEL ABNEY
   FCRD - ROADMASTER
   CELL - 912-215-0250
   DANIEL.ABNEY@GWRR.COM

4. ROADWAY AUTHORITY WILL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH TRIMMING/CLEARING OF ALL VEGETATION WITHIN RAILWAY RIGHT-OF-WAY LIMITS TO A MAXIMUM 2' HEIGHT FOR A MINIMUM DISTANCE OF 325 FEET FROM THE EDGE OF ROADWAY ALONG TRACK IN EACH DIRECTION FROM THE CROSSING. TRIMMING/CLEARING WILL BE PERFORMED BY RAILWAY FORCES OR RAILWAY AUTHORIZED CONTRACTOR.

5. ROADWAY AUTHORITY MUST BE AWARE AND ENSURE THAT ANY EXISTING OR PROPOSED PLANTING OR PLACEMENT OF LANDSCAPING, LIGHTING FIXTURES, SIGNAGE, OR ANY DEVICE OR SIGN THAT WILL OR HAS THE POTENTIAL TO OBSTRUCT THE SIGHT PREVIEW OF THE CROSSING WARNING DEVICES WITHIN 500 FEET IN APPROACH TO THE CROSSING IS TO BE REMOVED OR RELOCATED TO PREVENT THE OBSTRUCTION IT CREATES.

MAINTENANCE OF TRAFFIC (MOT) GENERAL NOTES

1. A MAINTENANCE OF TRAFFIC (MOT) PLAN PROPOSING A CHANGE TO THE MOT IN THIS PLAN SET WILL NEED REVIEW AND SIGN-OFF BY A FLORIDA ADVANCED MAINTENANCE OF TRAFFIC (AMOT) CERTIFIED PERSONNEL. IF NEEDED, THE COST FOR A REVIEW AND SIGN-OFF BY AN AMOT CERTIFIED PERSONNEL SHALL BE INCLUDED IN THE LUMP SUM MOT COST.

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REVISIONS				Connelly & Wicker Inc. 10060 Skinner Lake Dr., Suite 500 Jacksonville, FL 32246 Certification of Authorization No. 3650 Engineer of Record: Daniel R. Waltermyer, P.E. FL P.E. No. 73903	NASSAU COUNTY ENGINEERING			GENERAL NOTES (2)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						NASSAU			22

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Development Review General Notes:

1. Engineering Plans approval does not constitute permission to violate any adopted Federal, State, or Local law, code, or ordinance.
2. All work within the public streets and right-of-ways shall conform to Nassau County Land Development Codes (LDC), FDOT Standard Indices, Florida Greenbook, Nassau County Roadway and Drainage Standards, and Nassau County Standard Details as necessary. For any discrepancy between standards, the most stringent shall prevail.
3. Per Nassau County Roadway and Drainage Standards, Ordinance 99-17 Section 6.2.4, site shall be constructed per approved construction drawings. Any substantial deviation shall be concurrently reviewed by Engineer of Record and Nassau County Development Review Committee prior to field changes.
4. A pre-construction meeting with Nassau County Engineering Services Construction Inspector is required. Attendees shall be Nassau County, Engineer of Record, Contractor, Testing firm, Paving firm, and utility companies per Nassau County Ordinance 99-17 Section 7.2.3. Nassau County may cancel pre-construction meeting if attendee list is inadequate. Nassau County Engineering Services can be reached at 904-530-6225.
5. The contractor shall schedule and coordinate all work with the appropriate Nassau County Construction Inspector assigned to the project per Nassau County Ordinance 99-17 Section 7.2.
6. All work shall be performed in a safe manner. All safety rules and guidelines of O.S.H.A. shall be followed. The contractor shall be wholly responsible for any injuries to his employees and any damage to private property or persons during the course of this project.
7. Per Nassau County Roadway and Drainage Standards, Ordinance 99-17 Section 11.8.1, any disturbed areas within Nassau County Right-of-Way shall be sodded.
8. Per Nassau County Roadway and Drainage Standards, Ordinance 99-17 Section 7.4.1, at the time of final inspection, grassing shall be a minimum of seventy percent coverage and fully established and/or sodding to be one hundred percent coverage and stabilized.
9. Engineer of Record approved shop drawings shall be provided to Nassau County Construction Inspector a minimum of one week before beginning structure installation.
10. Parking at mail kiosks is required per Nassau County Roadway and Drainage Standards, Ordinance 99-17 Section 8.4. Mail kiosk locations are subject to USPS Postmaster approval.
11. The developer's contractor is the single responsible party for the proper implementation of an Erosion Protection Sediment Control (EPSC) within each lot or construction site. This includes the responsibility for the actions/inactions of employees, subcontractors, and/or suppliers.
12. Sidewalks to be provided and built in accordance Florida Building Code. All proposed sidewalks shall meet ADA requirements.
13. The Contractor shall comply with current Florida accessibility standards for all work on this project.
14. Per Ordinance 99-17 Section 8.5.1, minimum cover for water lines and force mains under pavement shall 42" and 36” in green areas.
15. All water, sewer, and storm water construction within Nassau County ROW shall be accomplished by an underground utility contractor licensed under the provisions of Chapter 409 of the Florida Statutes.
16. No work shall be permitted between the hours of 7:00 PM - 7:00AM without prior approval from Nassau County Engineering Services.
17. All trees required to be protected shall be flagged for protection prior to clearing.
18. All grading and placement of compacted fill shall be in accordance with the latest Nassau County Specifications.
19. Any damages (sidewalk, curb, asphalt, ditch grading, et cetera) within Public Right-of-Way shall be repaired or replaced in accordance with Nassau County Specifications. Proposed repair method shall be approved by Nassau County Engineering Services.
20. Any asphalt millings from Nassau County ROW shall be delivered to the Road Department Laydown yard located on Gene Lasserre Boulevard or Pea Farm Road. Please contact the Road Department at (904) 530-6175.
21. Per Nassau County Ordinance 99-17 Section 7.4.2 and 7.4.4, as-built drawings shall be submitted to Nassau County before a final inspection can be scheduled. As-builts submittals will be in accordance with Nassau County as-built requirement checklist. As-built drawings shall be certified by required licensed surveyor and approved by Engineer of Record.

ROADWAY AND DRAINAGE STANDARDS NASSAU COUNTY ENGINEERING SERVICES DEPARTMENT	REVISION DATES		DEVELOPMENT REVIEW GENERAL NOTES	NOTE SHEET: 1 DWG: ISSUED: 12/09/2020

REVISIONS				Connelly & Wicker Inc. 10060 Skinner Lake Dr., Suite 500 Jacksonville, FL 32246 Certification of Authorization No. 3650 Engineer of Record: Daniel R. Waltermyer, P.E. FL P.E. No. 73903	NASSAU COUNTY ENGINEERING			GENERAL NOTES (3)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						NASSAU			23

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Stormwater Drainage Notes:

1. All stormwater drainage facilities within Public Right-of-Way and paved areas, including Nassau County Right-of-Way, turn lanes, residential roadways, drive aisles for multi-family developments, and major drive aisles for commercial developments shall be laser profiled per FDOT Section 430.
2. A builder cannot modify the County's storm water management system including the pipes, inlets, area drains, ditches and related elements typically within the street or within a drainage easement without the prior written approval of the County Engineer or designee.
3. Drainage easements and ditches should remain free of stockpiled soil, sediment, mud, construction materials/waste, et cetera at all times. Positive stormwater flow must be maintained throughout construction.
4. The contractor shall temporarily or permanently stabilize bare soil areas and soil stockpiles when the area is inactive for fourteen days or more or has reached finished grade.
5. Per Ordinance 99-17 Section 11.11.5.4, all gravity flow pipe installations shall have a soil tight joint performance unless specific site factors warrant watertight joint performance.
6. Per Ordinance 99-17 Section 10.6.5.1, immediately install additional Erosion Protection Sediment Control measures if sediment is leaving your site. Failure to contain sediment to your site may result in delayed inspections, notices of violation, citations, fines, penalties, and/or stop work orders.
7. Per 99-17 Section 10.1.2.a-e, stormwater management for a project shall not have adverse effects on adjacent properties, downstream structures, or rights of other landowners.

Paving Notes:

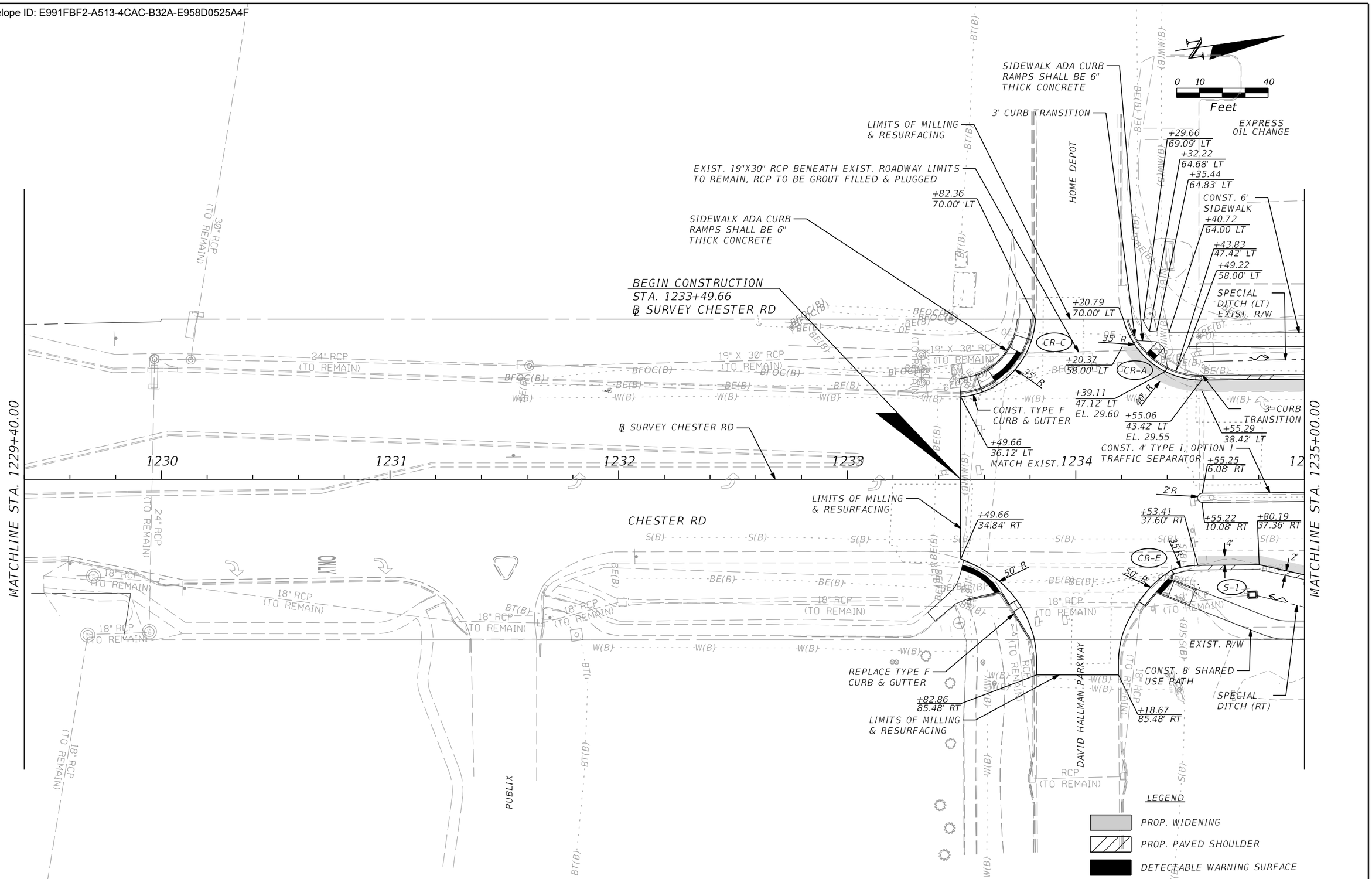
1. Per Nassau County Roadway and Drainage Standards, Ordinance 99-17 Section 12.2 and 12.4, a construction bond and 26-month maintenance bond will be required for all work within Nassau County Right-of-Way.
2. A pre-pave meeting is required prior to any paving operations within Nassau County ROW, residential subdivisions, or multi-family developments.
3. Approved mix designs shall be provided to Nassau County Construction Inspector 48 hours prior to pre-pave meeting or placement of concrete.
4. Contractor is required to have a Certified QC Asphalt Level II Technician during any asphalt operations within Nassau County ROW, residential subdivision, or multi-family developments.
5. All bases shall be primed in accordance with Ordinance 99-17 Section 11.5.2.3, Nassau County Standard Details, and FDOT Standard Specifications.
6. Signage and pavement markings shall be in compliance with Nassau County Standards, Manual on Uniform Traffic Control Devices (MUTCD), and FDOT Standard Plans.
7. Maintenance of Traffic (MOT) shall be in compliance with FDOT Standard Index 600 Series.
8. All work, materials, and testing performed within Nassau County right-of-way and single-family/multi-family developments shall be in accordance with the current revision of Nassau County's Ordinance 99-17 and all current Nassau County Standard Details.
9. Per Ordinance 99-17 Section 11.9.2, all pavement markings within Nassau County ROW shall be lead free thermoplastic meeting Nassau County and FDOT Standard Specification Latest Edition.
10. Removing pavement markings within Nassau County ROW shall be:
    a. Grinding or hydro-blasting on weathered asphalt surfaces.
    b. Hydro-blasting only on new asphalt surfaces.
    c. Paint Blackout is prohibited.
11. Per Ordinance 99-17 Section 8.5.5, any damage to pavement resulting from construction or pavement marking removal withinPublic ROW not planned as part of the project shall be milled and overlaid for entire width of roadway and length of damage plus 50' in each direction.
12. All underground utilities, or appropriate conduit sleeves, that are to be installed under pavement must be installed prior to preparation of the subgrade for pavement.
13. Single Vertical Joints in roadway construction shall be avoided in Nassau County Right-of-Way using Nassau County Standard Detail #26.
14. All drainage structures shall have traffic bearing grates that meet or exceed the rating for the facilities expected traffic.
15. All concrete shall be a minimum of 3000 psi within Public Right-of-Way.

ROADWAY AND DRAINAGE STANDARDS NASSAU COUNTY ENGINEERING SERVICES DEPARTMENT	REVISION DATES		STORMWATER DRAINAGE & PAVING NOTES	NOTE SHEET: 2 DWG: ISSUED: 12/09/2020

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REVISIONS				Connelly & Wicker Inc. 10060 Skinner Lake Dr., Suite 500 Jacksonville, FL 32246 Certification of Authorization No. 3650 Engineer of Record: Daniel R. Waltermyer, P.E. FL P.E. No. 73903	NASSAU COUNTY ENGINEERING			GENERAL NOTES (4)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						NASSAU			24

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REVISIONS			
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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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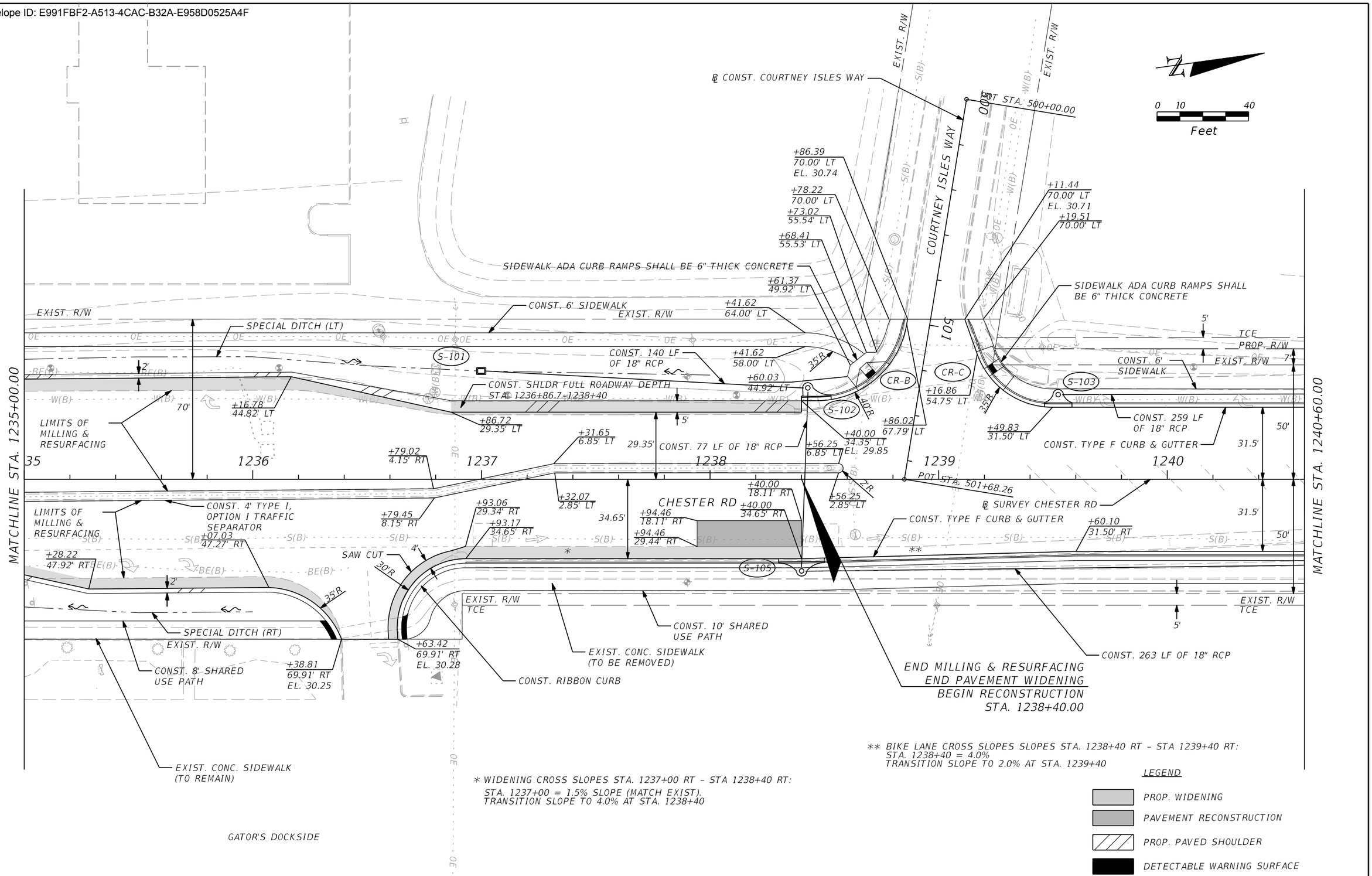
PLAN SHEET (1)

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NASSAU COUNTY ENGINEERING

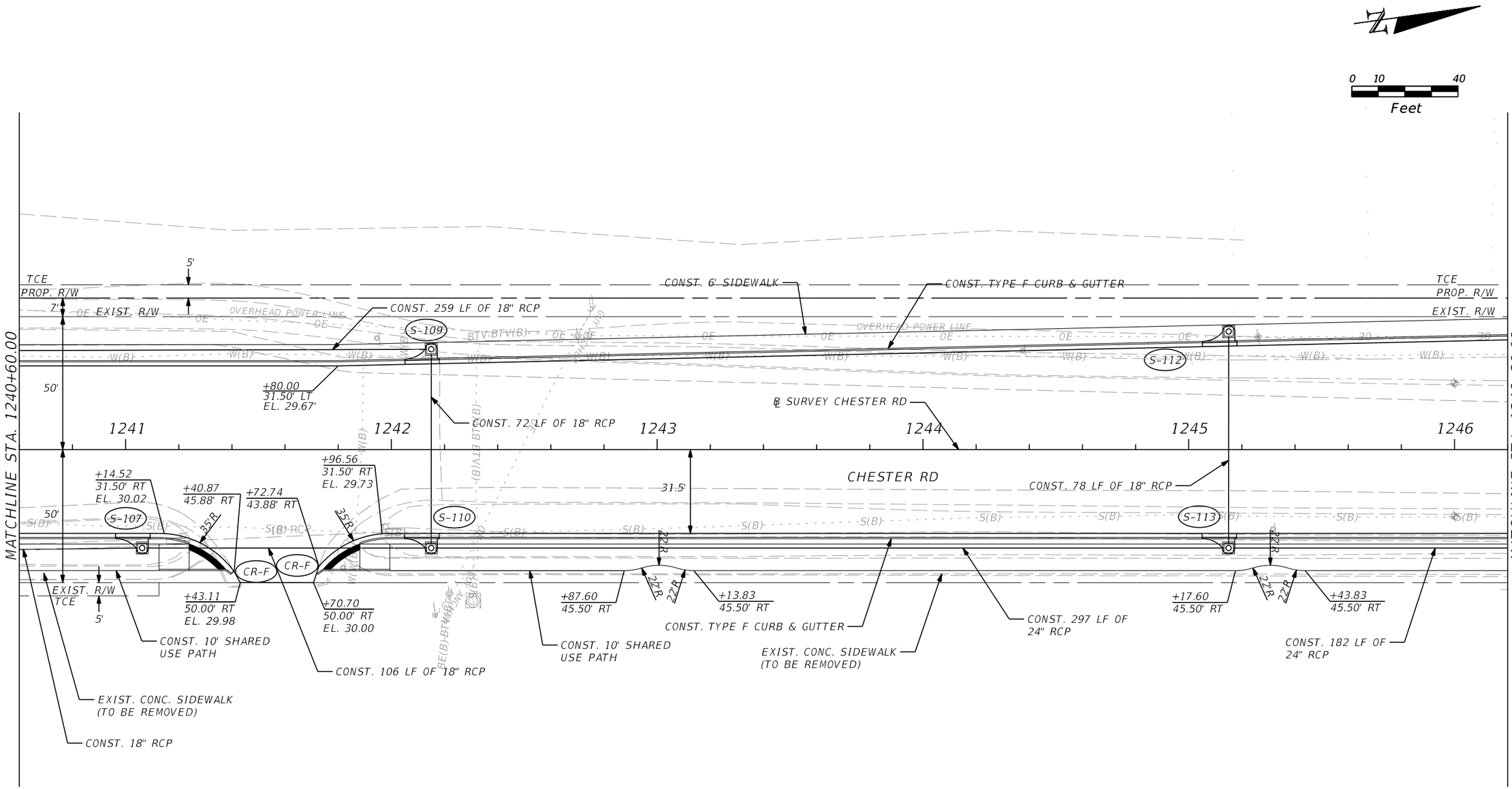
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	NASSAU	

PLAN SHEET (2)

SHEET NO. 26

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Jacksonville, FL 32246
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FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

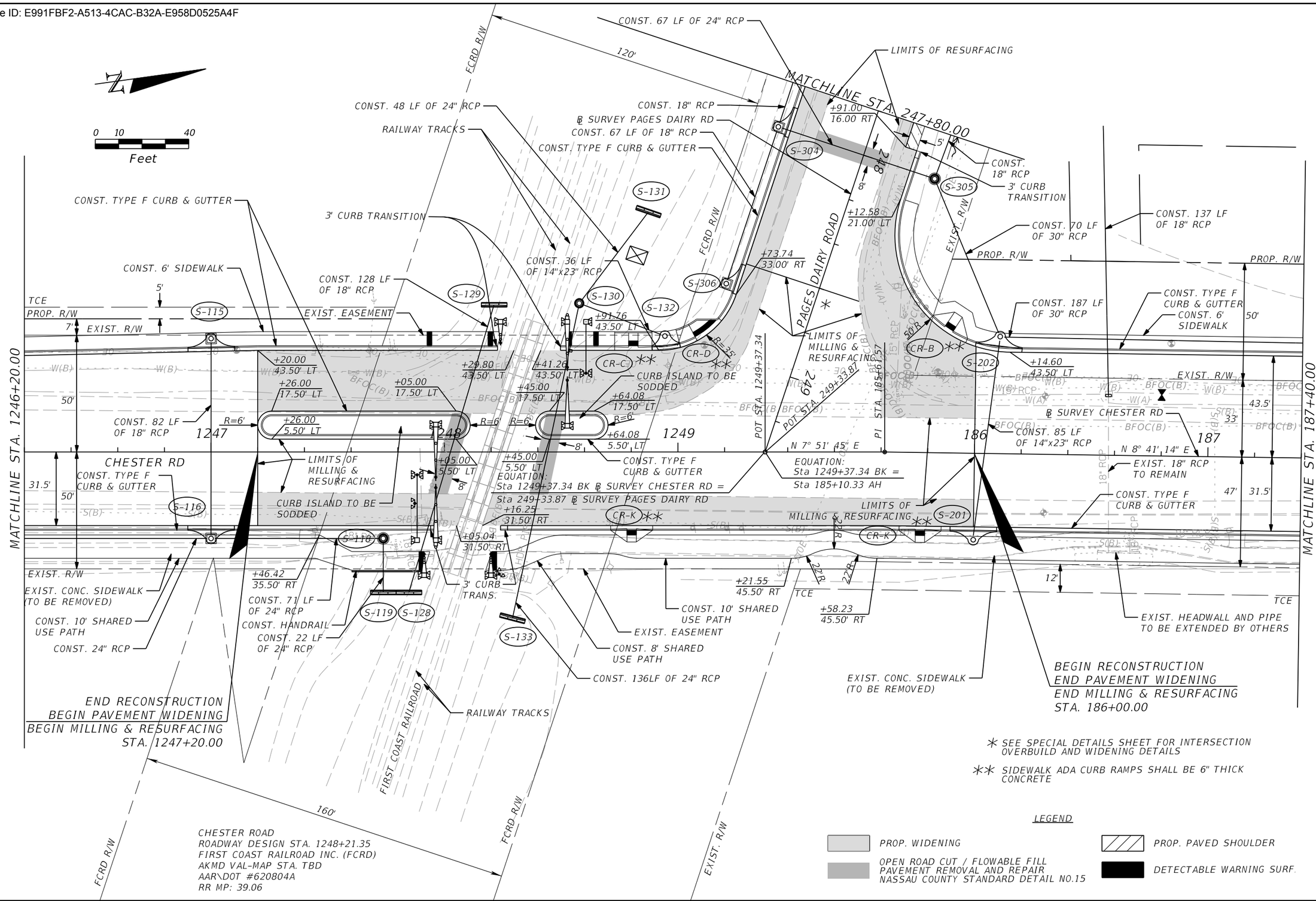
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	NASSAU	

PLAN SHEET (3)

SHEET NO. 27

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Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

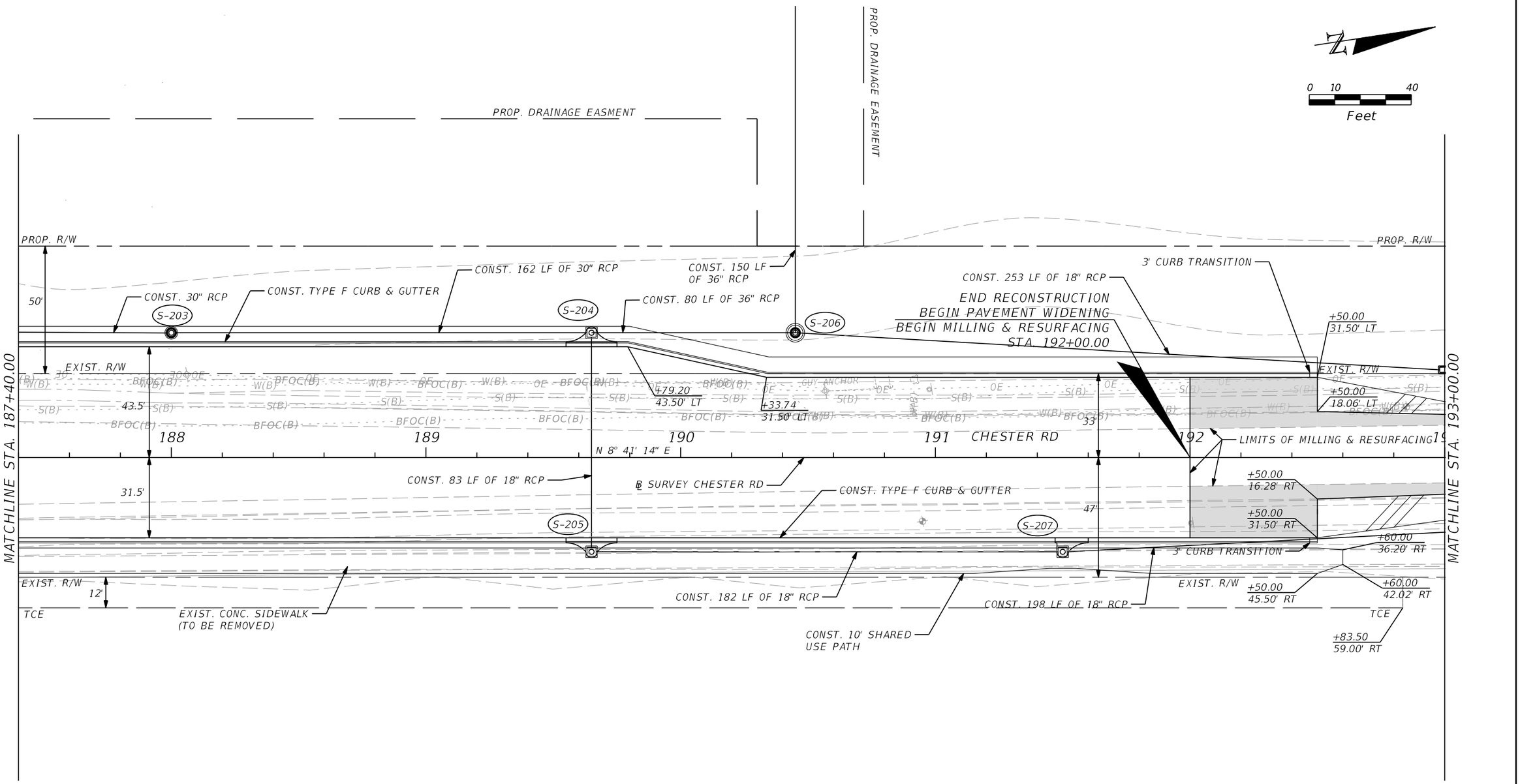
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PLAN SHEET (4)

SHEET NO. 28

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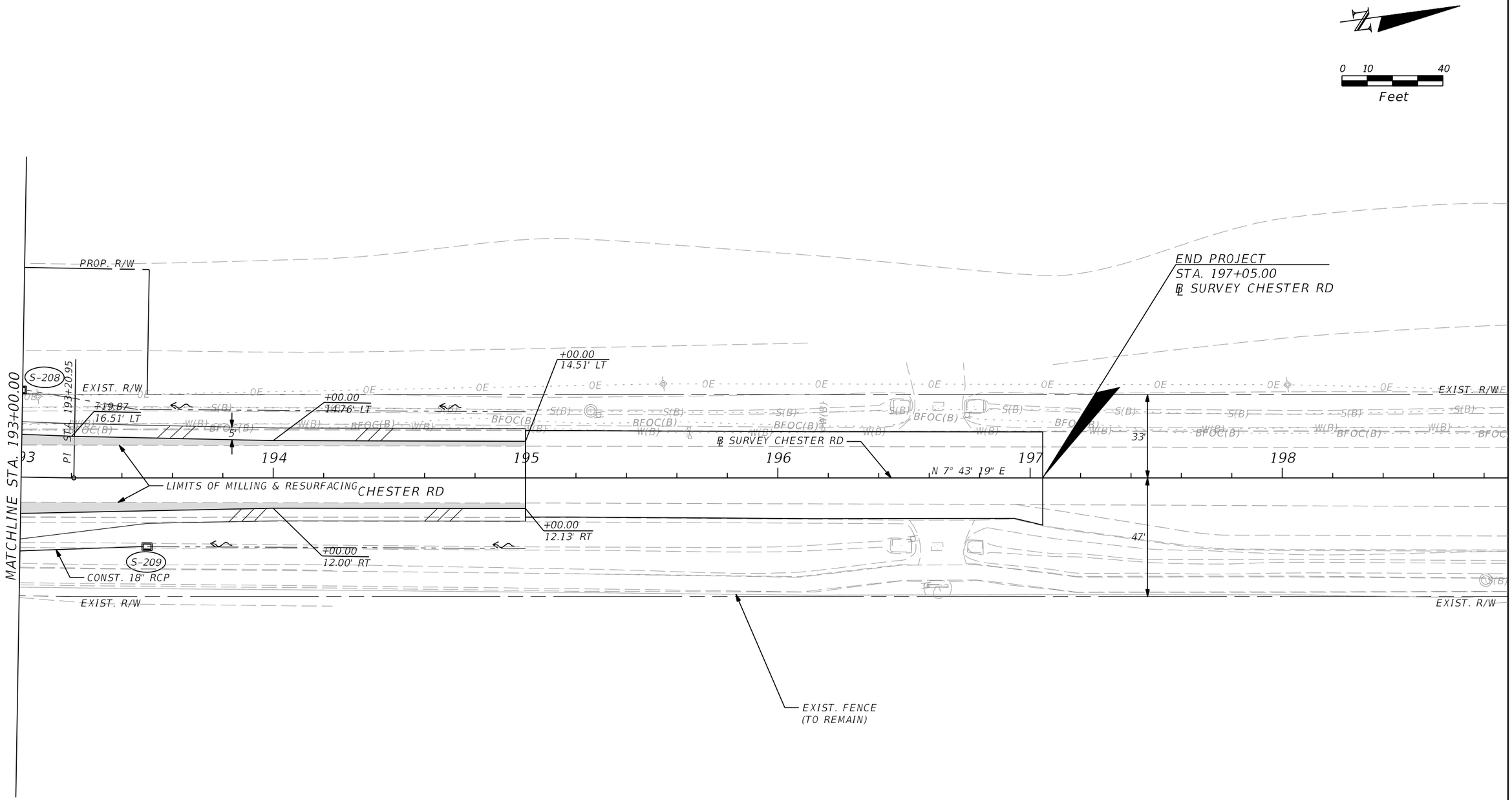
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

PLAN SHEET (5)

SHEET NO. 29

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10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

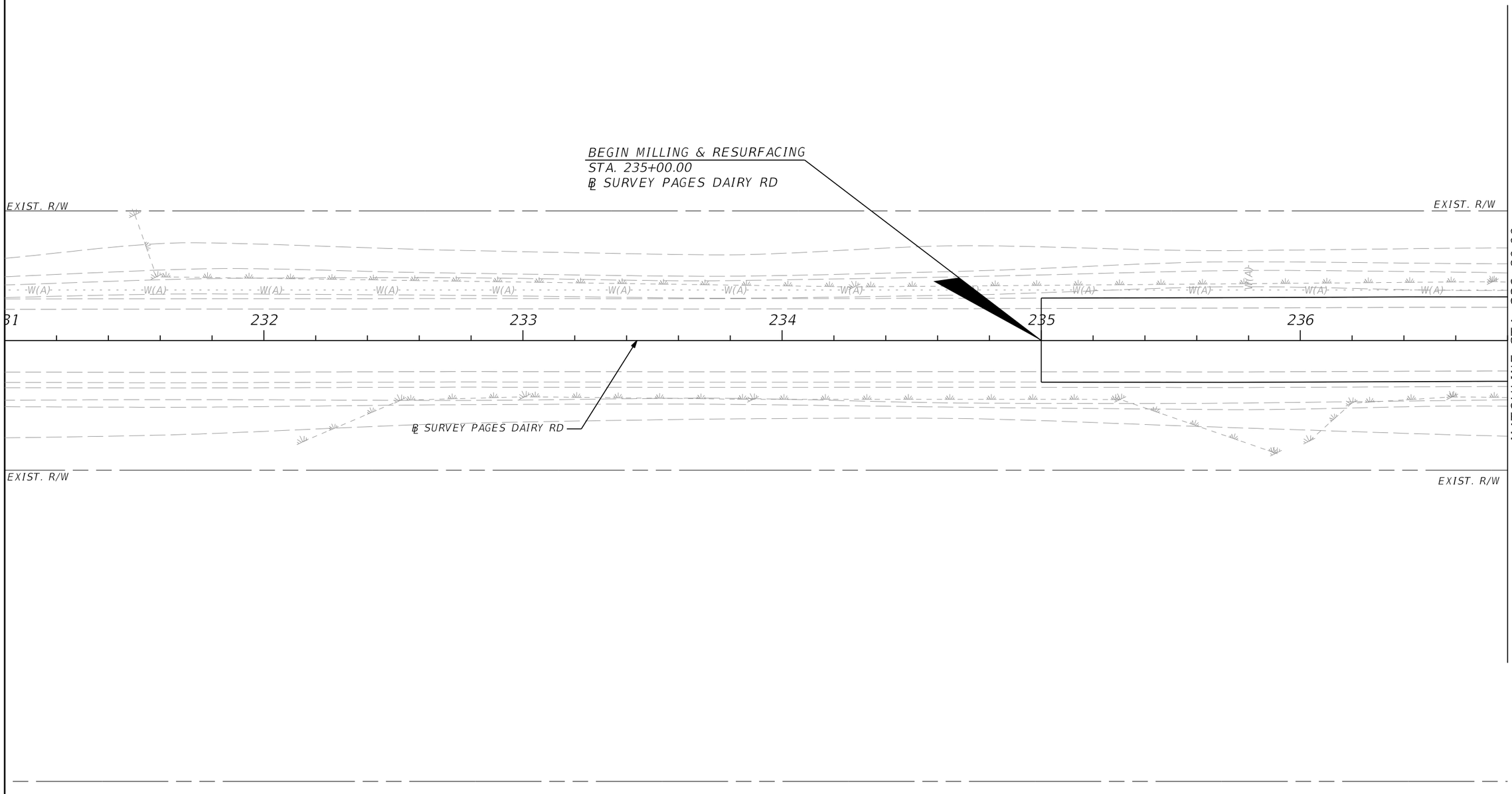
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

PLAN SHEET (6)

SHEET NO. 30

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Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

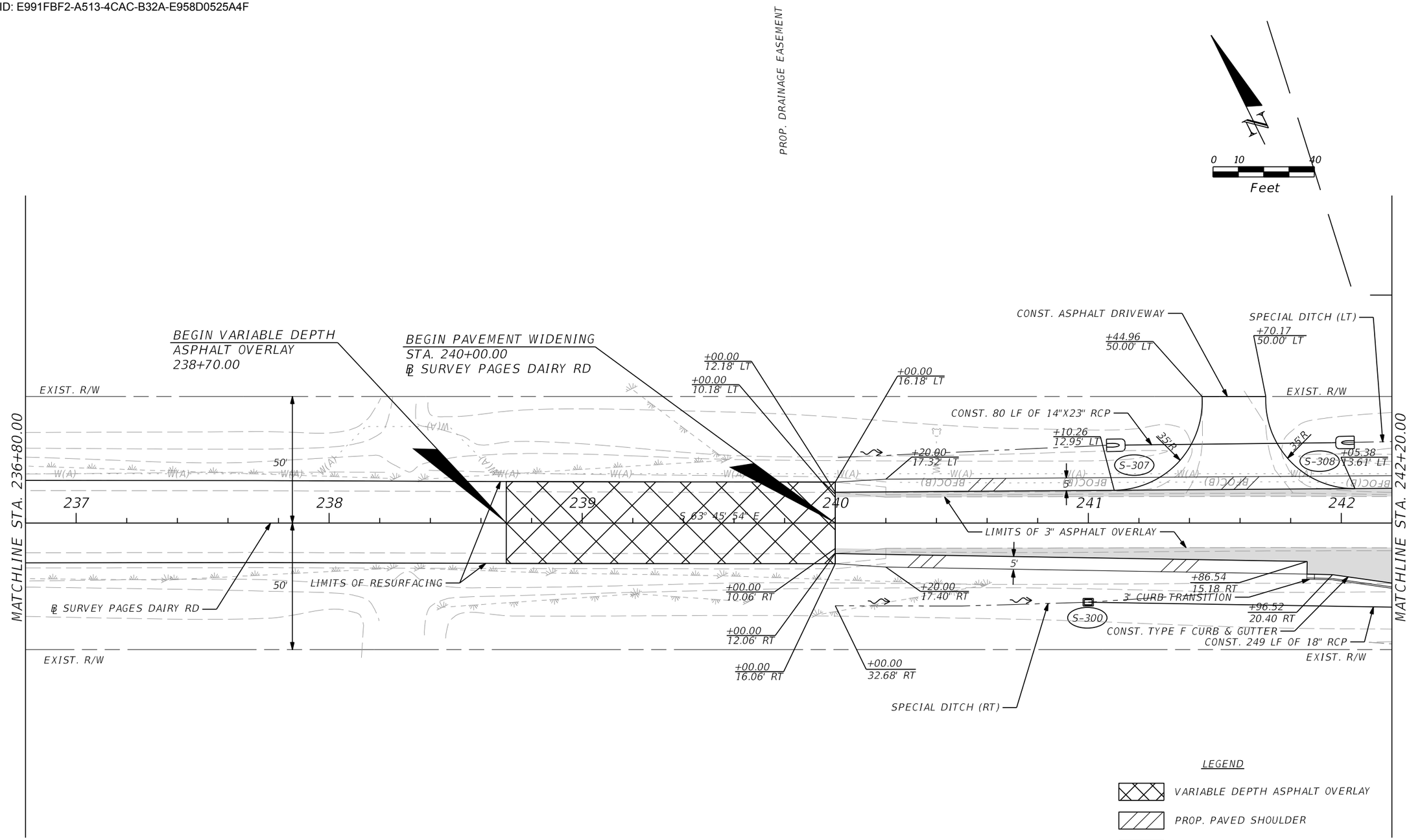
PLAN SHEET (7)

SHEET NO. 31

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NASSAU COUNTY ENGINEERING

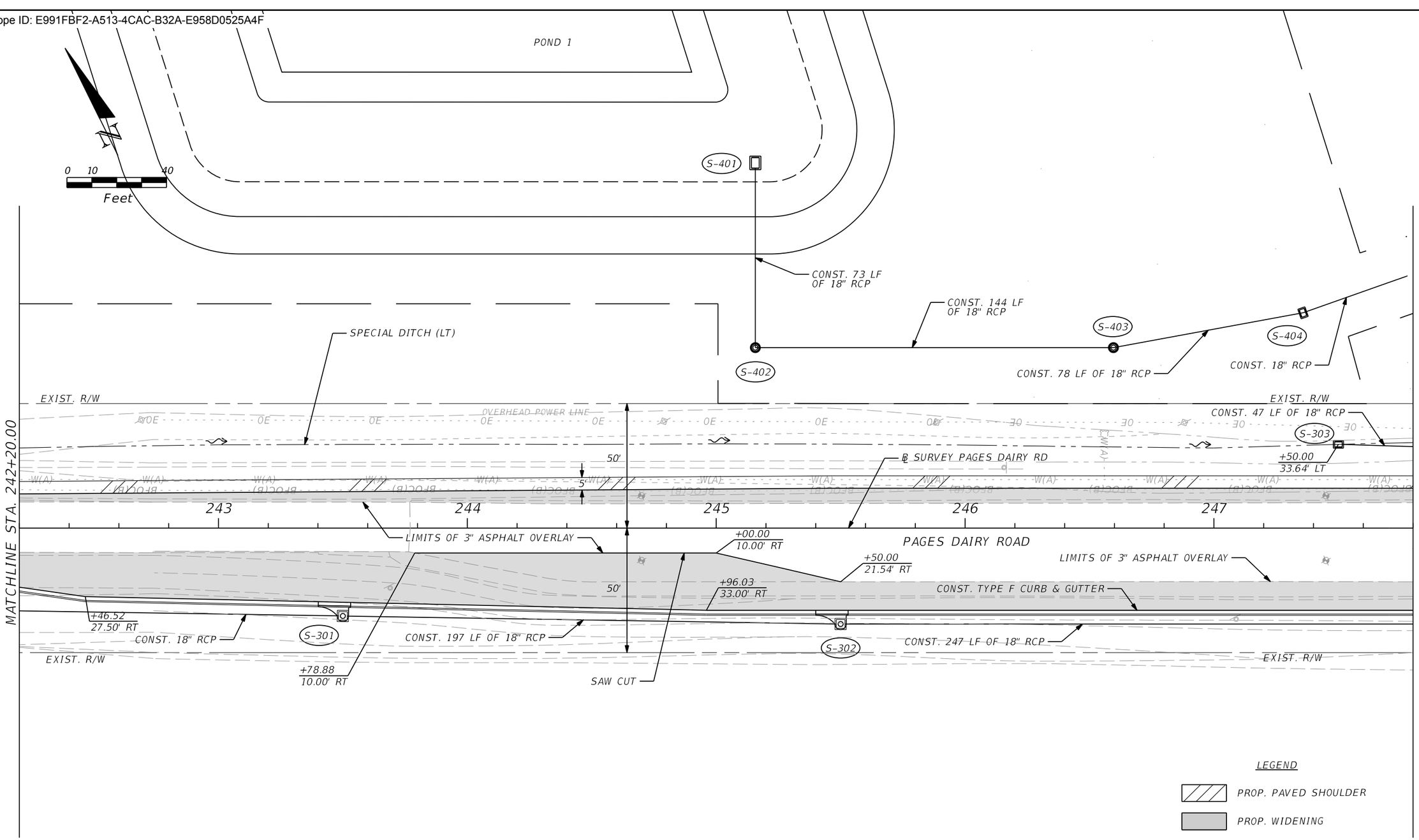
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

PLAN SHEET (8)

SHEET NO. 32

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Jacksonville, FL 32246
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FL P.E. No. 73903

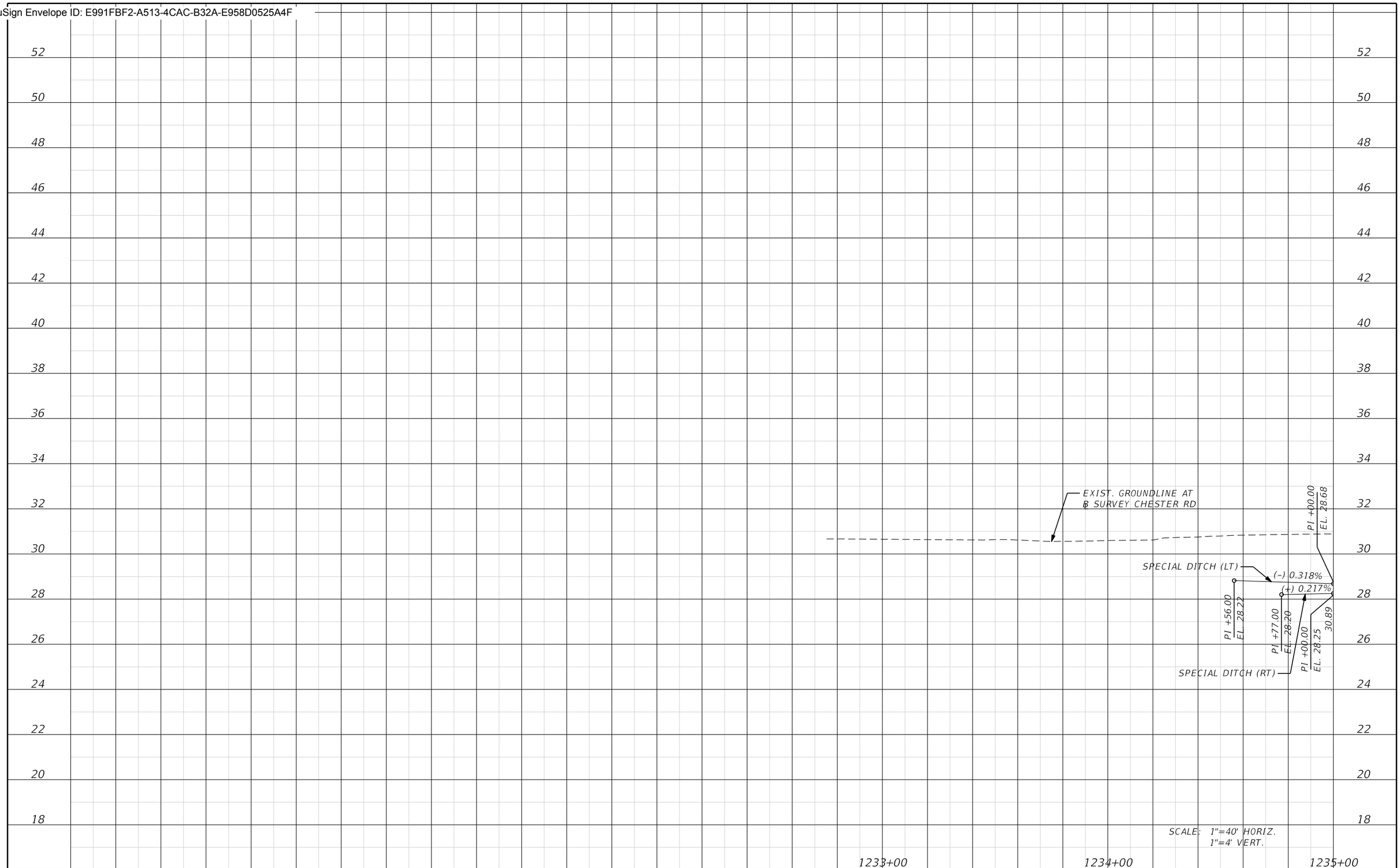
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

PLAN SHEET (9)

SHEET NO. 33

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REVISIONS			
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Jacksonville, FL 32246
Certification of Authorization No. 3650

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FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

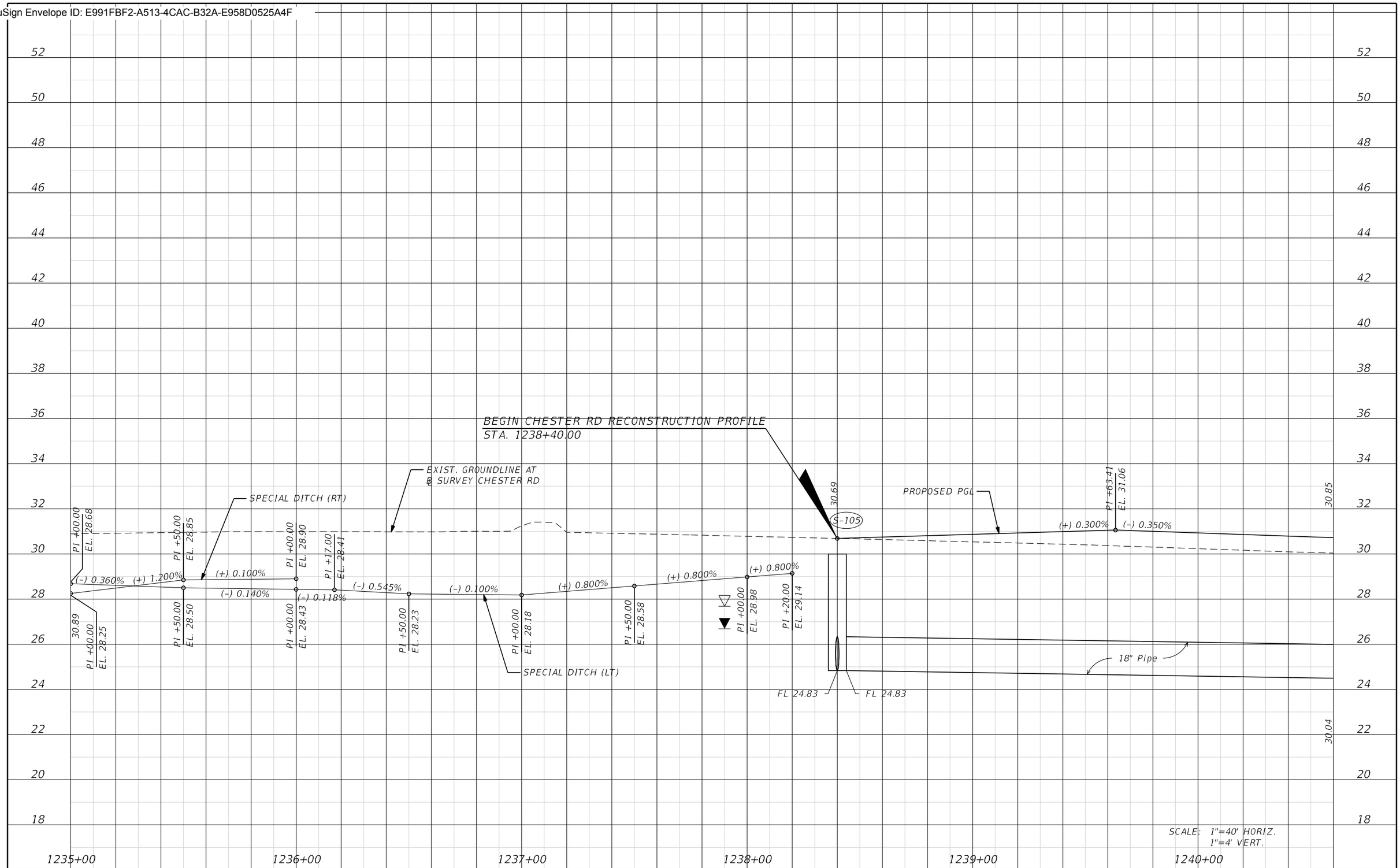
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

PROFILE SHEET (1)
CHESTER RD

SHEET NO. 34

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SCALE: 1"=40' HORIZ.
1"=4' VERT.

REVISIONS			
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FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

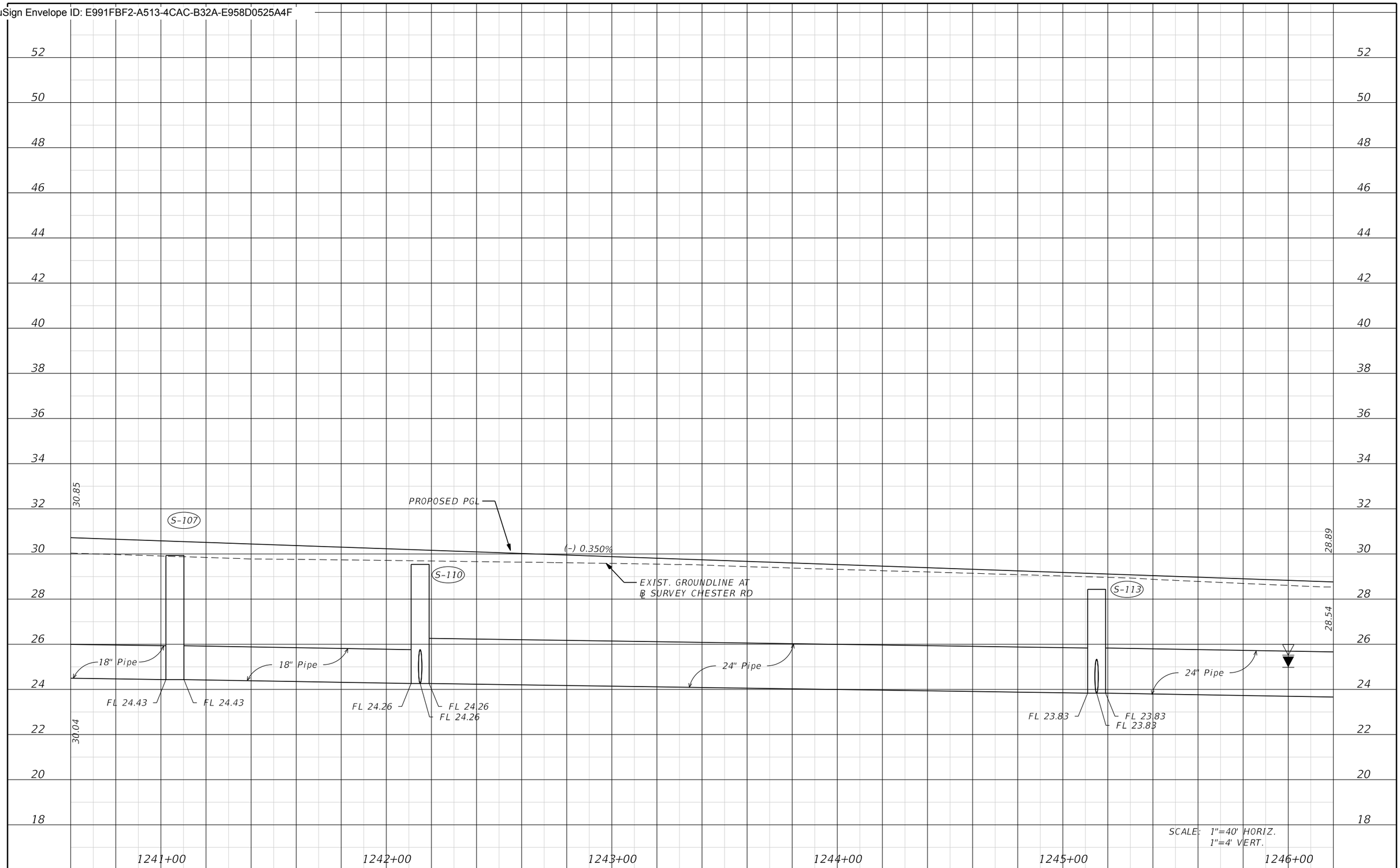
PROFILE SHEET (2)
CHESTER RD

SHEET NO. 35

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NASSAU COUNTY ENGINEERING

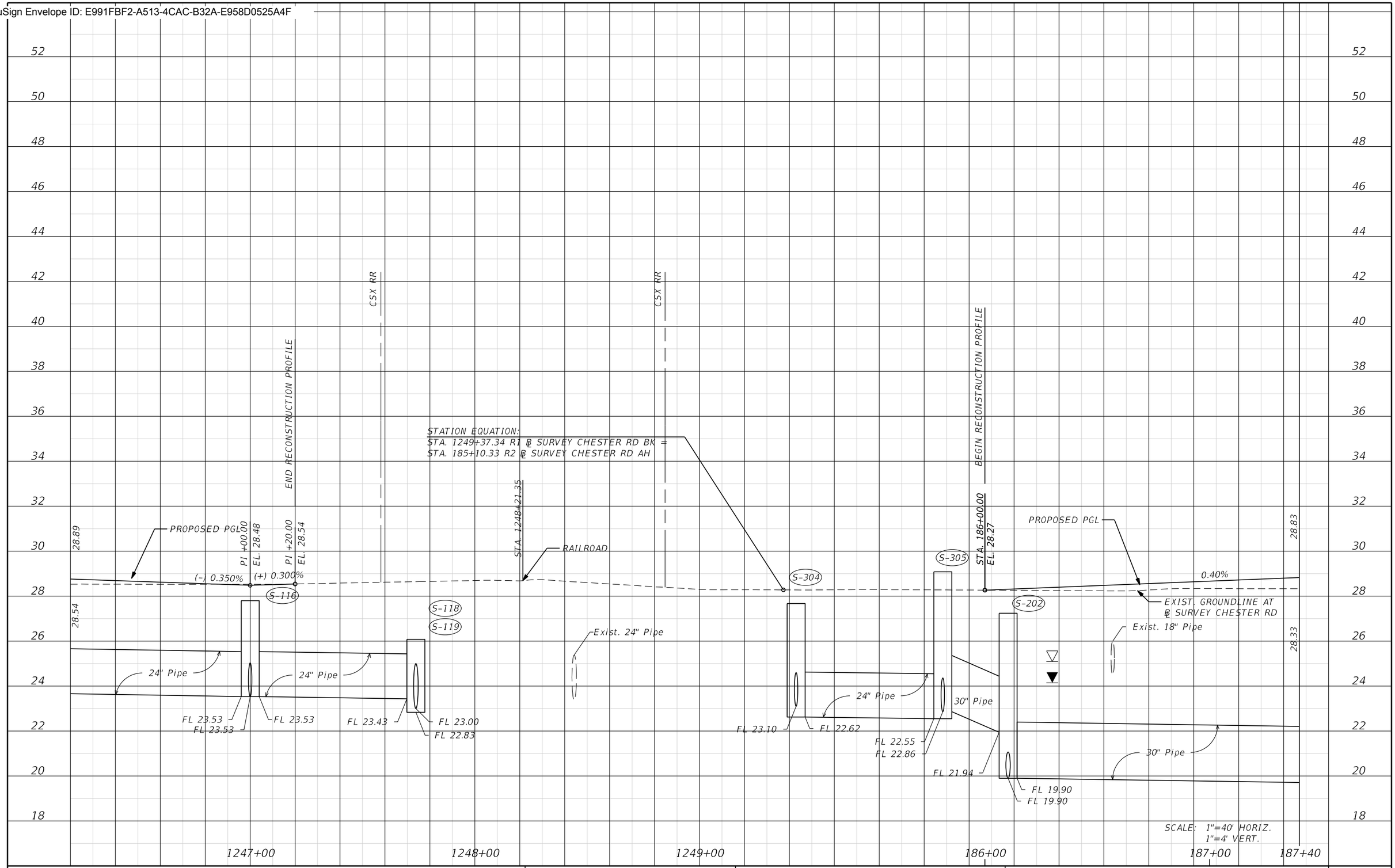
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

PROFILE SHEET (3)
CHESTER RD

SHEET NO. 36

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REVISIONS			
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Connelly & Wicker Inc.
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FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

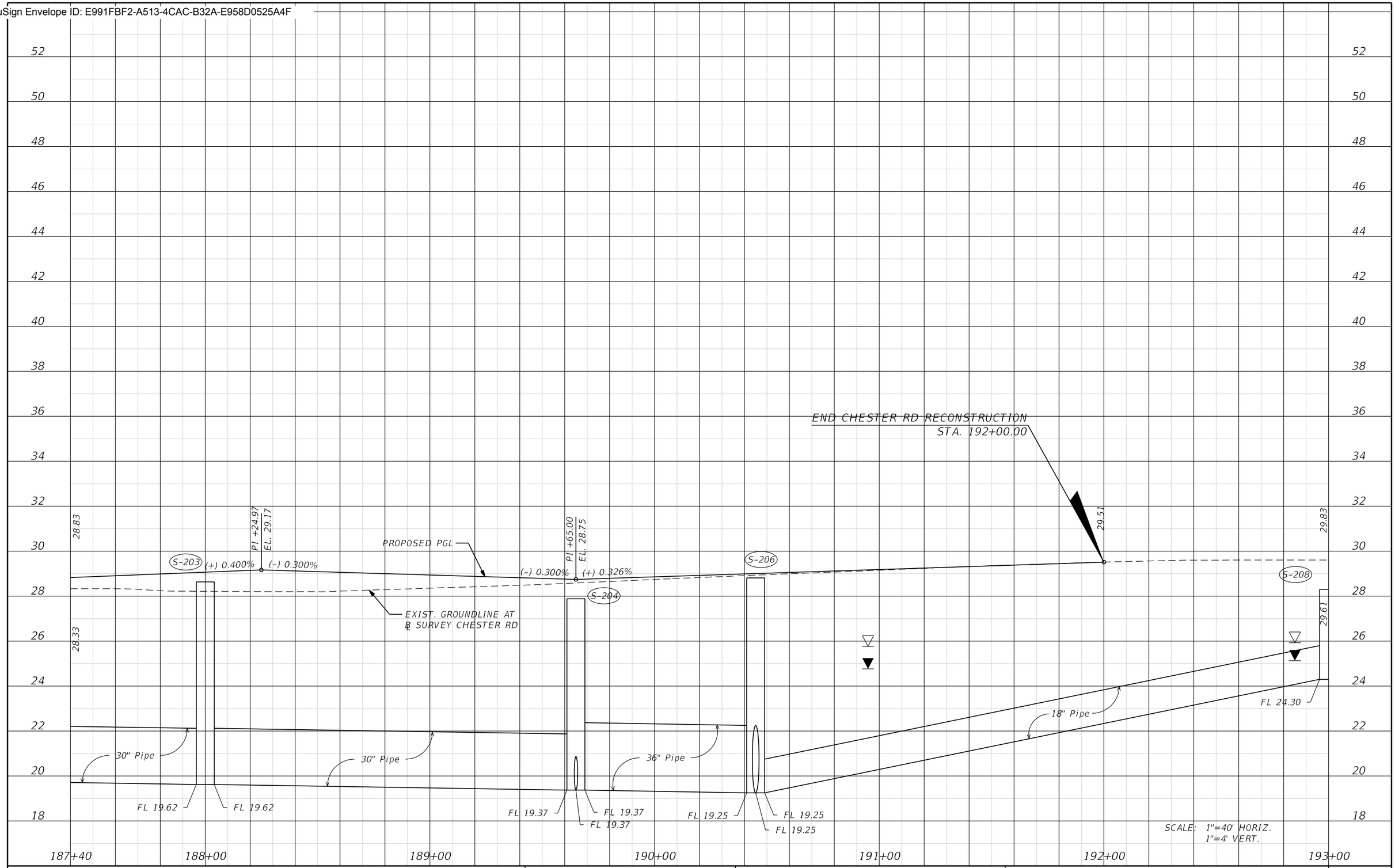
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

PROFILE SHEET (4)
CHESTER RD

SHEET NO. 37

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REVISIONS			
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Connelly & Wicker Inc.
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Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
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FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

PROFILE SHEET (5)
CHESTER RD

SHEET NO. 38

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52
50
48
46
44
42
40
38
36
34
32
30
28
26
24
22
20
18

29.83

EXIST. GROUNDLINE AT
℄ SURVEY CHESTER RD

S-208

29.61

FL 24.30

END PROJECT
STA. 197+05.00

SCALE: 1"=40' HORIZ.
1"=4' VERT.

193+00 194+00 195+00 196+00 197+00 198+00

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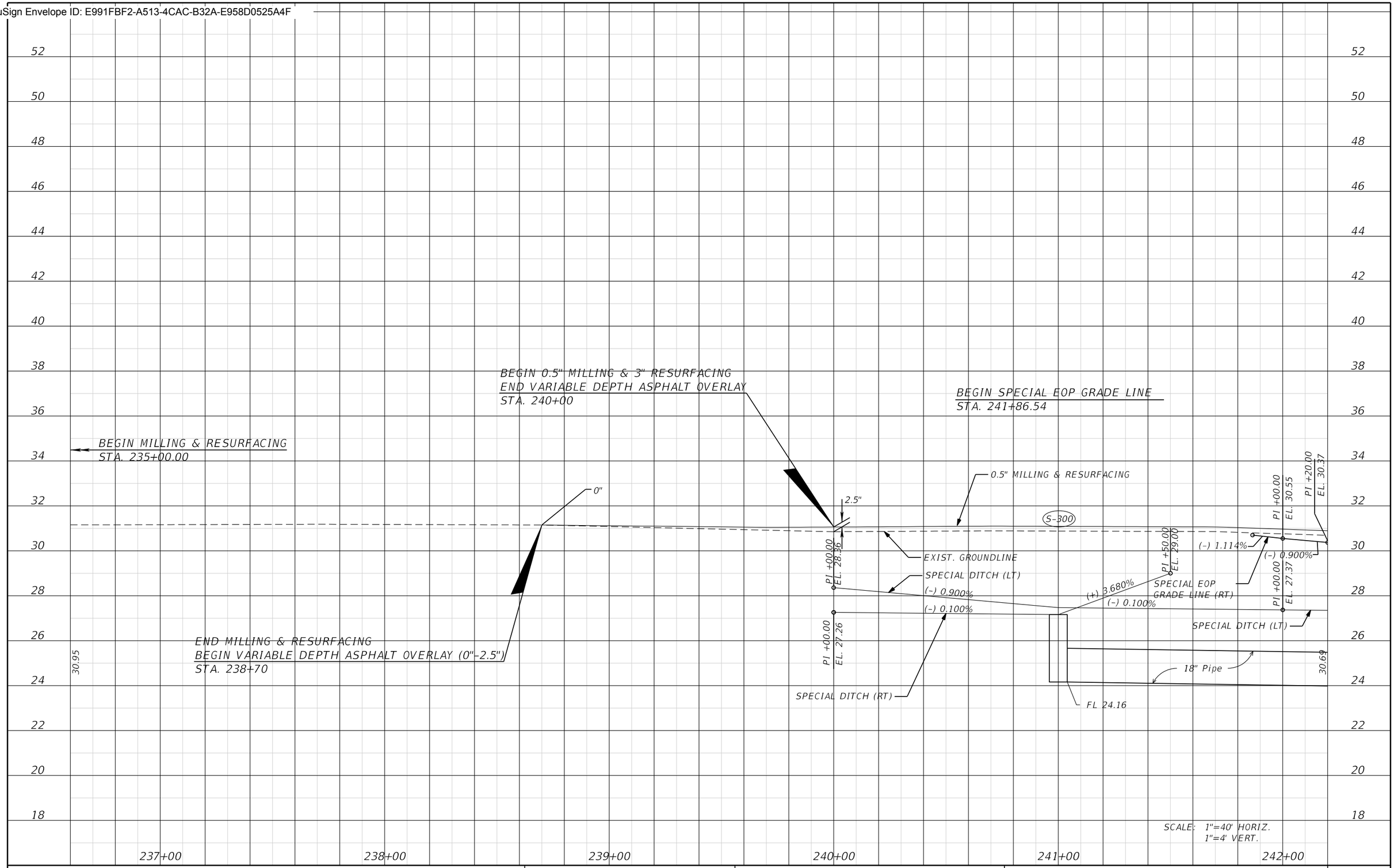
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

PROFILE SHEET (6)
CHESTER RD

SHEET NO. 39

Danny 12/14/2023 8:16:24 AM J:\Transportation\Projects\17-01-0202_ChesterInt\roadway\PROFRD06.dgn

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



SCALE: 1"=40' HORIZ.
1"=4' VERT.

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NASSAU COUNTY ENGINEERING

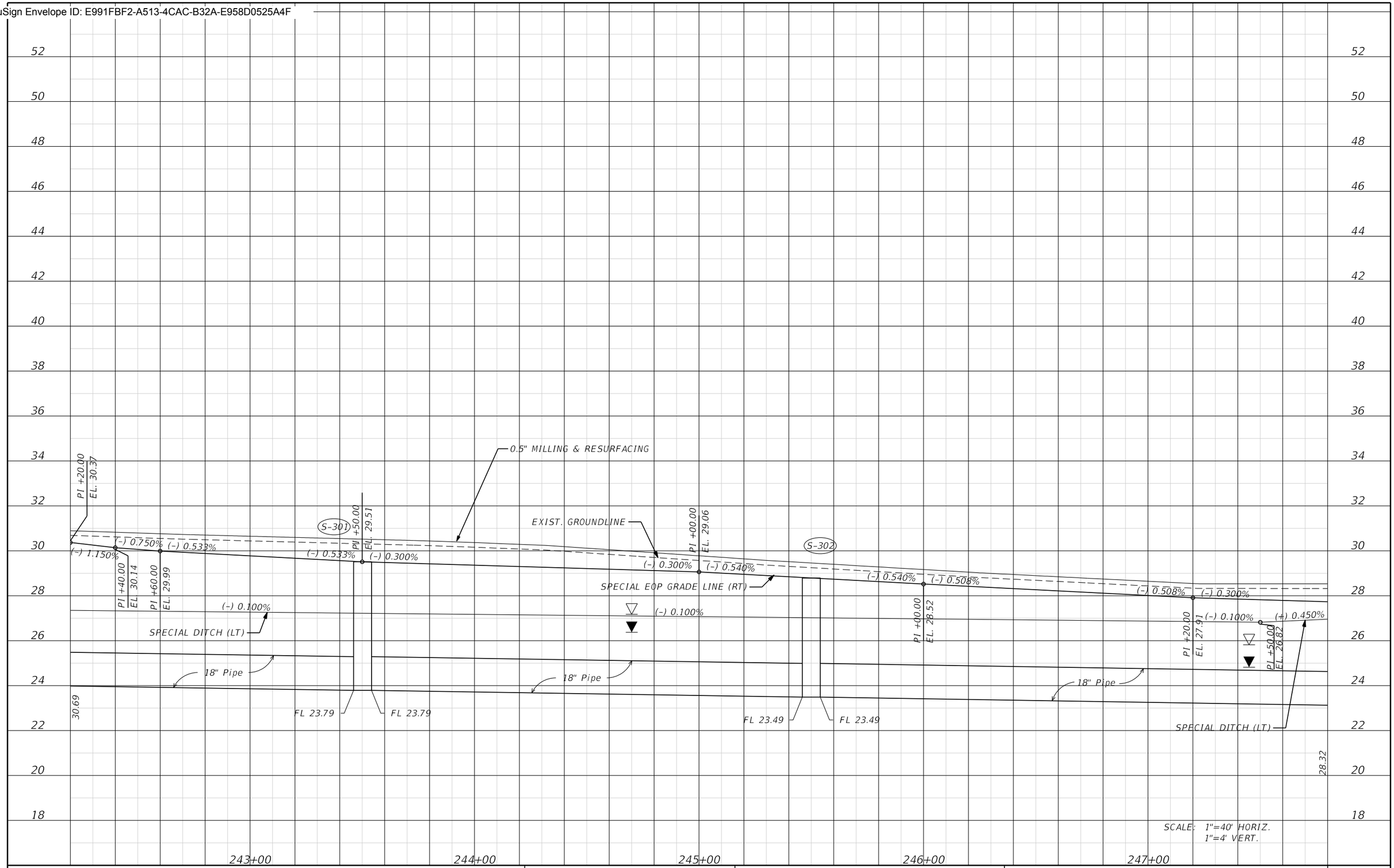
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

PROFILE SHEET (7)
PAGES DAIRY RD

SHEET NO. 40

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NASSAU COUNTY ENGINEERING

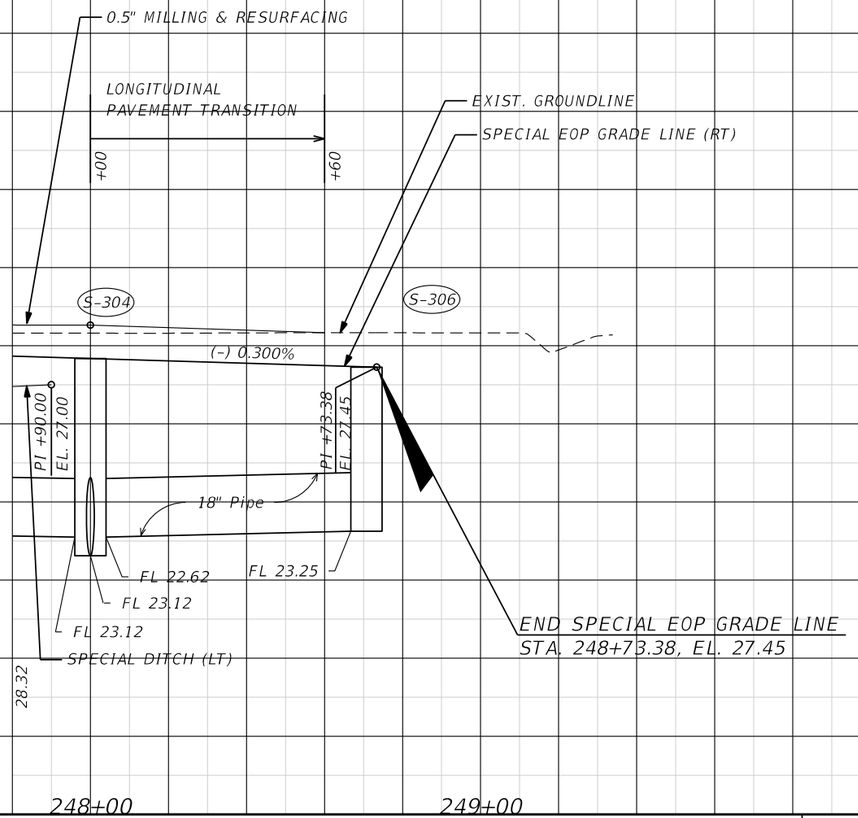
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

PROFILE SHEET (8)
PAGES DAIRY RD

SHEET NO. 41

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SCALE: 1"=40' HORIZ.
1"=4' VERT.

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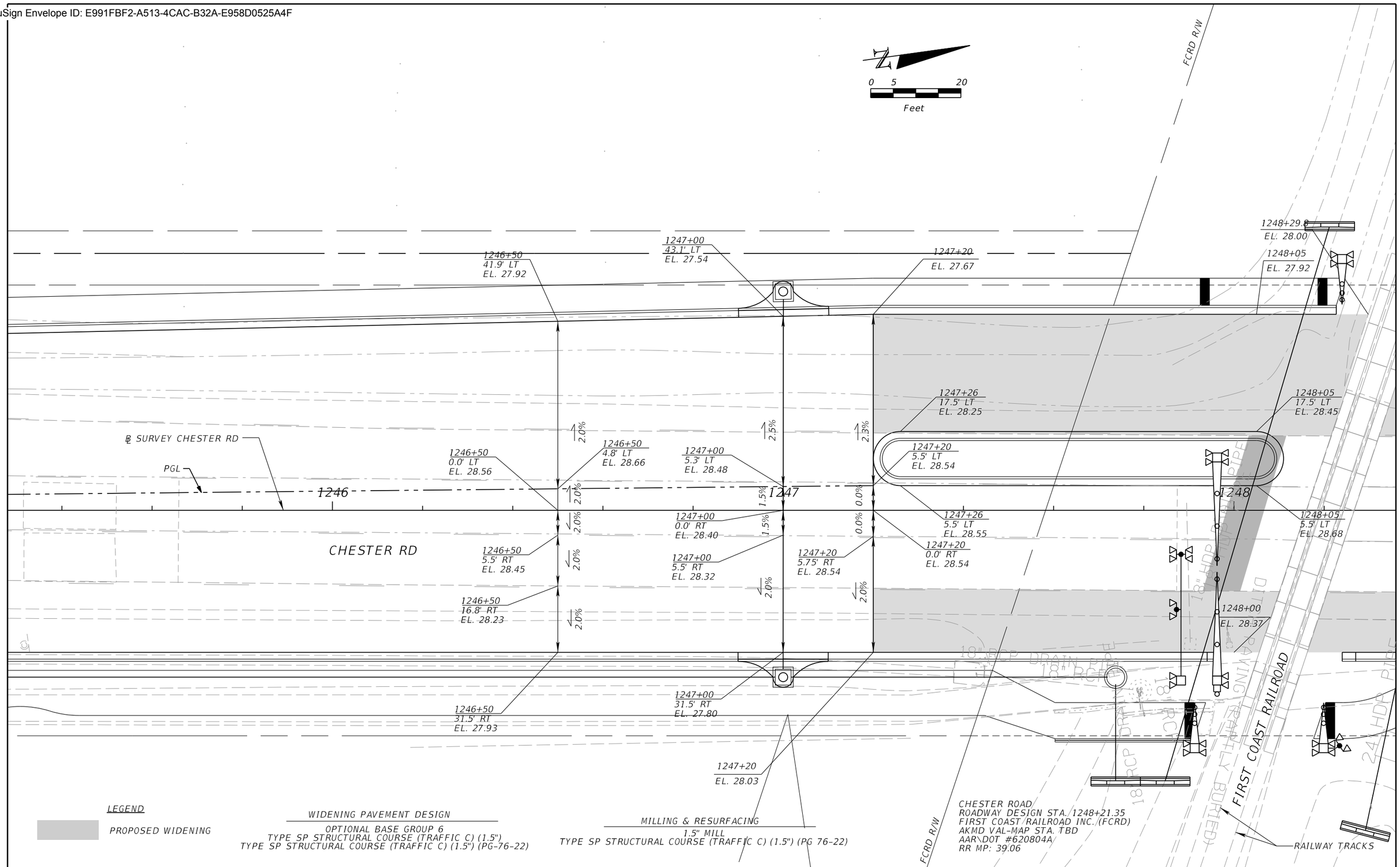
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

PROFILE SHEET (9)
PAGES DAIRY RD

SHEET NO. 42

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LEGEND

PROPOSED WIDENING

WIDENING PAVEMENT DESIGN

OPTIONAL BASE GROUP 6
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1.5")
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1.5") (PG 76-22)

MILLING & RESURFACING

1.5" MILL
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1.5") (PG 76-22)

CHESTER ROAD
ROADWAY DESIGN STA. 1248+21.35
FIRST COAST/RAILROAD INC. (FCRD)
AKMD VAL-MAP STA. TBD
AAR\DOT #620804A
RR MP: 39.06

REVISIONS			
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Jacksonville, FL 32246
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FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

SPECIAL DETAILS

SHEET NO. 43

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℄ SURVEY PAGES DAIRY RD

120'

FCRD R/W

N

0 6 30
Feet

RAILWAY TRACKS

FCRD R/W

FIRST COAST RAILROAD

PAGES DAIRY ROAD

247+50
0.0' LT
EL. 28.54

4.0%

6% paved shldr

247+91
0.0' LT
EL. 28.54

247+91
21.00' LT
EL. 28.16

248+00
21.00' LT
EL. 28.12

1.8%

2.0%

248

248+20
21.55' LT
EL. 28.03

2.2%

248+40
29.19' LT
EL. 27.82

248+51.3
39.41' LT
EL. 27.51

2.0%

185+86.79
51.95' LT
EL. 27.31

2.0%

2.0%

186+00
45.68' LT
EL. 27.27

186+10
43.71' LT
EL. 27.24

186+40
43.5' LT
EL. 27.56

1249+25.09
EL. 27.45

1248+49.7
EL. 28.00

MATCH EXIST.
1249+03.56
21.28' LT
EL. 27.90

248+60
17.95' LT
EL. 27.97

185+70.50
27.61' LT
EL. 27.60

7.0%

1.5%

MATCH EXIST.
185+17.82
21.09' LT
EL. 28.33

1248+94
43.57' LT
EL. 27.34

249

1249+00
15.76' LT
EL. 27.94

185+70.5
20.32' LT
EL. 27.78

185+15.41
15.30' LT
EL. 28.02

185+70.5
14.83' LT
EL. 27.92

2.5%

3.0%

2.0%

2.5%

1.8%

2.2%

2.45%

2.0%

1248

1249

186

187

CHESTER RD

188

N 7° 51' 45" E

EXIST. THRU LANE EDGE

EXIST. CROWNLINE

186+40
0.0' RT
EL. 28.43

℄ SURVEY CHESTER RD

186+00
0.0' RT
EL..28.27

186+40
8.52' RT
EL. 28.26

186+00
8.52' RT
EL. 28.44

186+40
31.5' RT
EL. 27.80

2.0%

4.0%

2.0%

2.0%

1248+70
7.4' RT
EL. 28.48

1249+00
7.7' RT
EL. 28.33

24" HDPE PIPE

15" RCP DRAIN PIPE

18" RCP DRAIN PIPE

RCP DRAIN PIPE

DITCH PAVING

FLY BURIED

STA. 185+61.57

P1

186+00
EL. 27.51

1248+24
EL. 28.58

1248+40
EL. 28.34

1248+50
EL. 28.24

1248+70
EL. 28.00

1249+00
EL. 27.85

EQUATION:
Sta 1249+37.34 BK =
Sta 185+10.33 AH

RAILWAY TRACKS

FCRD R/W

CHESTER ROAD
ROADWAY DESIGN STA. 1248+21.35
FIRST COAST RAILROAD INC. (FCRD)
AKMD VAL-MAP STA. TBD
AAR\DOT #620804A
RR MP: 39.06

* LONGITUDINAL PAVEMENT TRANSITION:
STA. 248+00 – 2.5" OVERLAY
STA. 248+60 – MATCH EXISTING ELEVATION

CROWN ELEVATION:
STA. 248+00: 28.54'
STA. 248+20: 28.47'
STA. 248+40: 28.40'
STA. 248+60: MATCH EXIST. EL. 28.33

MILLING & RESURFACING

1.5" MILL
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1.5") (PG 76-22)

WIDENING PAVEMENT DESIGN

OPTIONAL BASE GROUP 6
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1.5")
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1.5") (PG-76-22)

OVERBUILD

TYPE SP STRUCTURAL COURSE (TRAFFIC C)

PROPOSED WIDENING

OVERBUILD

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REVISIONS			
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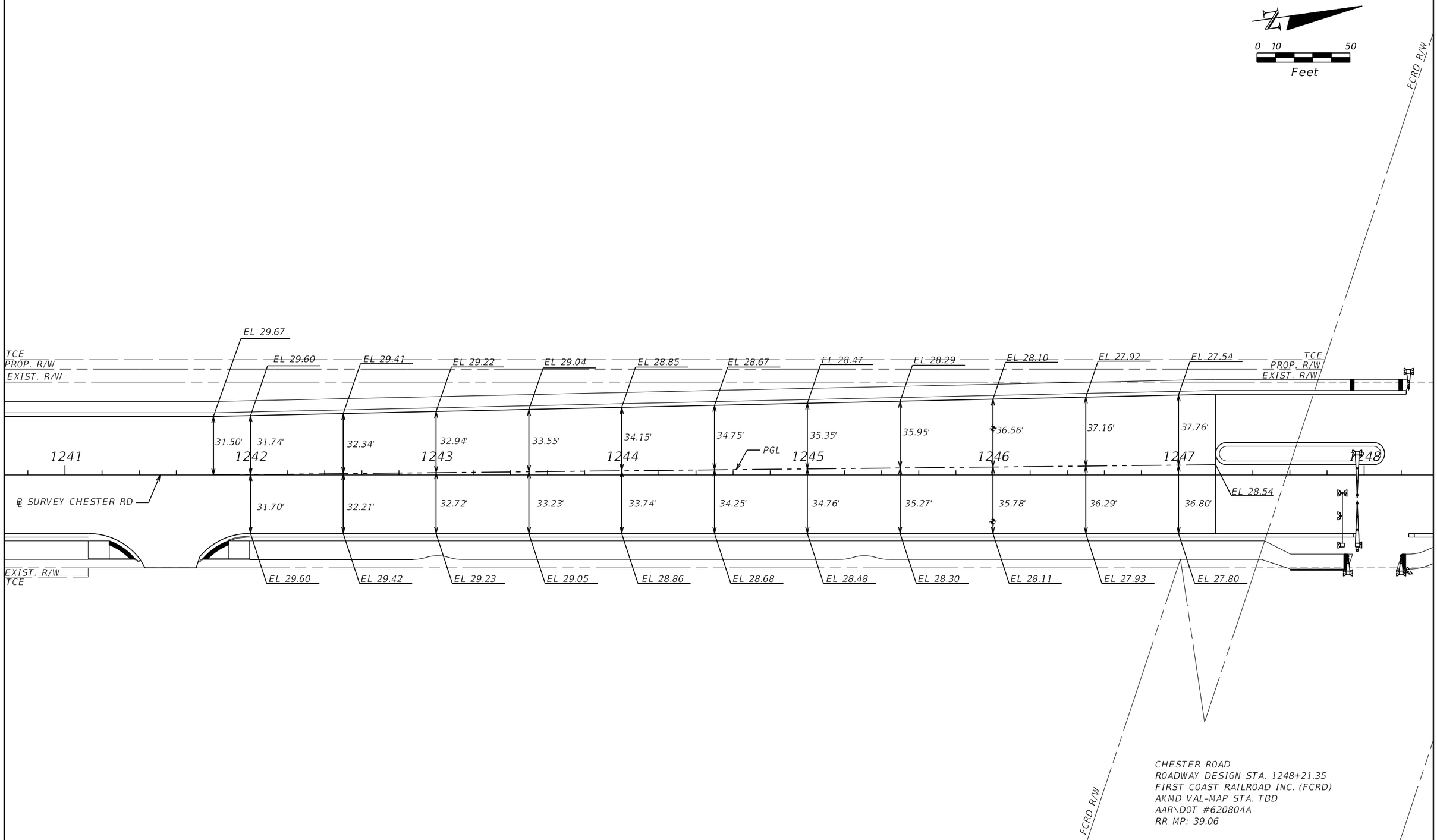
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

SPECIAL DETAILS

SHEET NO. 44

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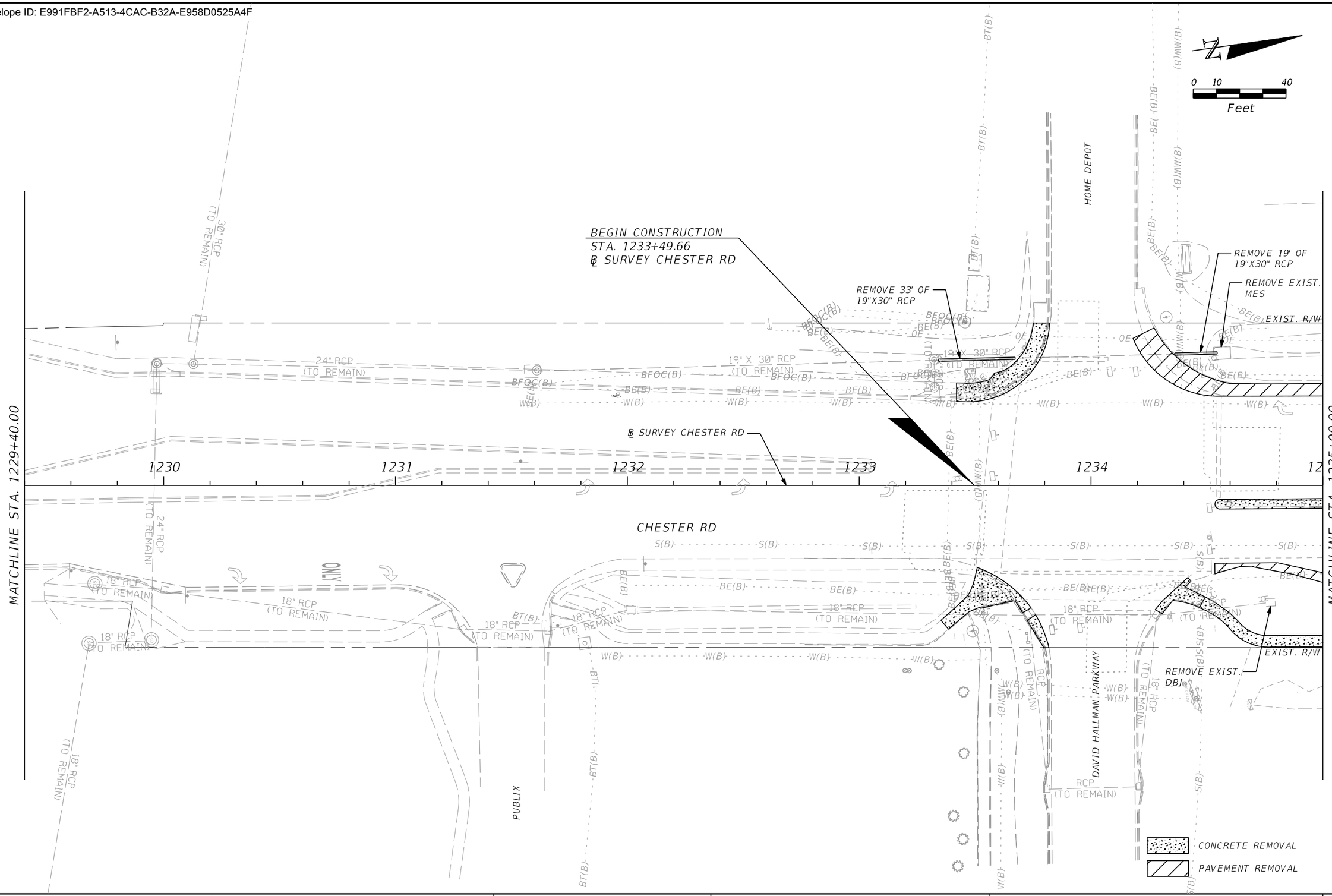
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

SPECIAL DETAILS

SHEET NO. 45

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NASSAU COUNTY ENGINEERING

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	NASSAU	

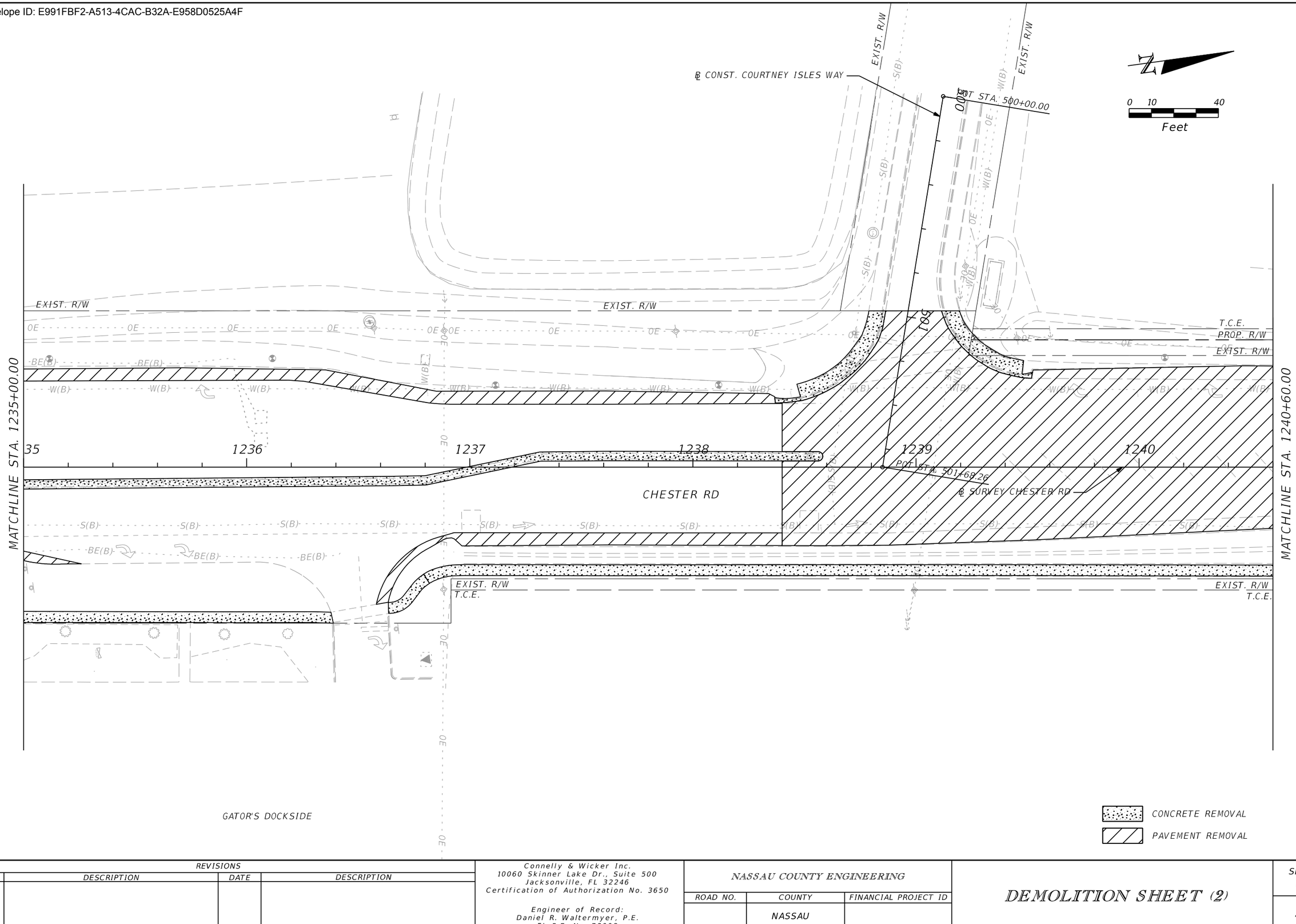
DEMOLITION SHEET (1)

SHEET NO. 46

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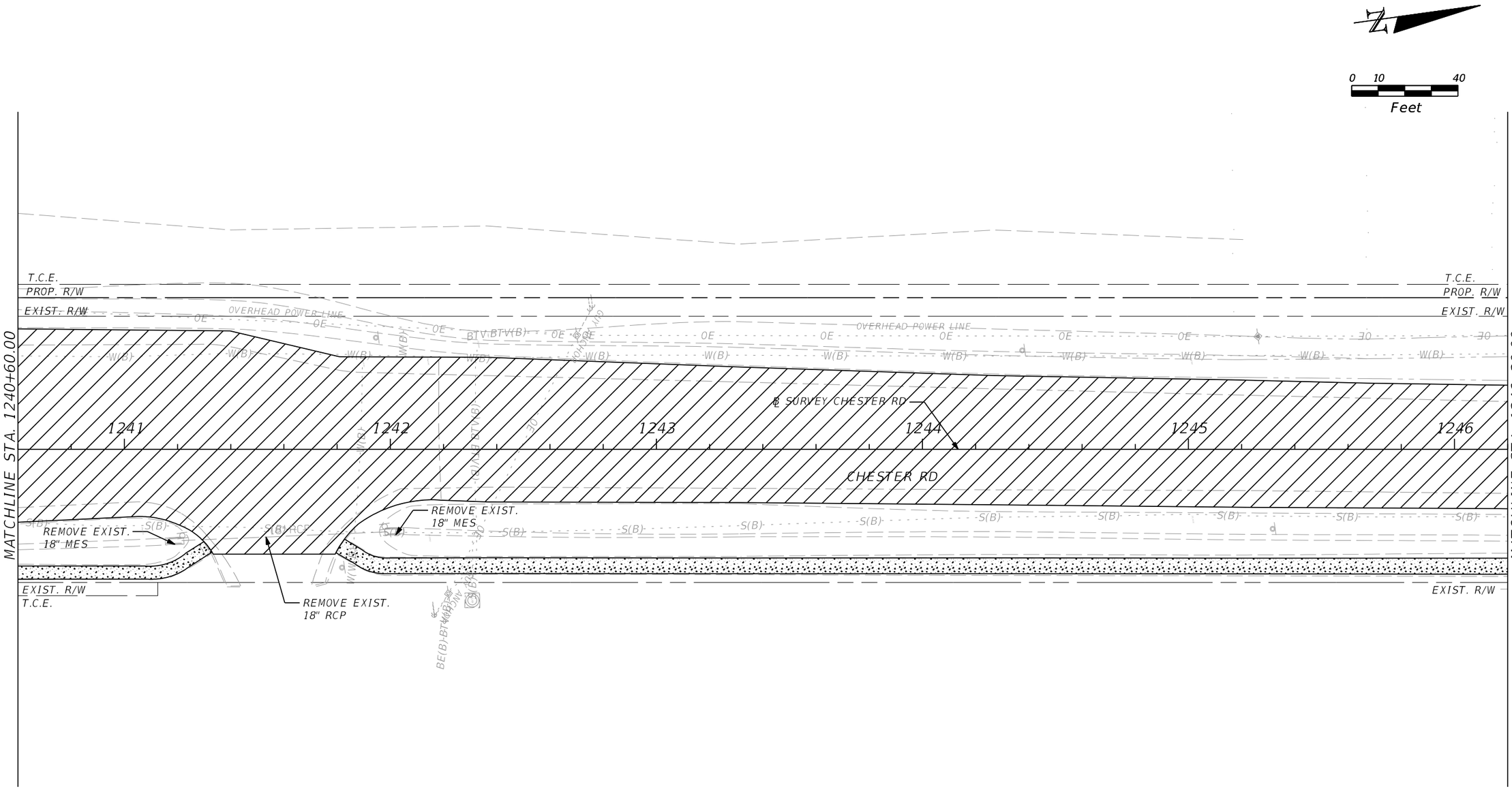
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

DEMOLITION SHEET (2)

SHEET NO. 47

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

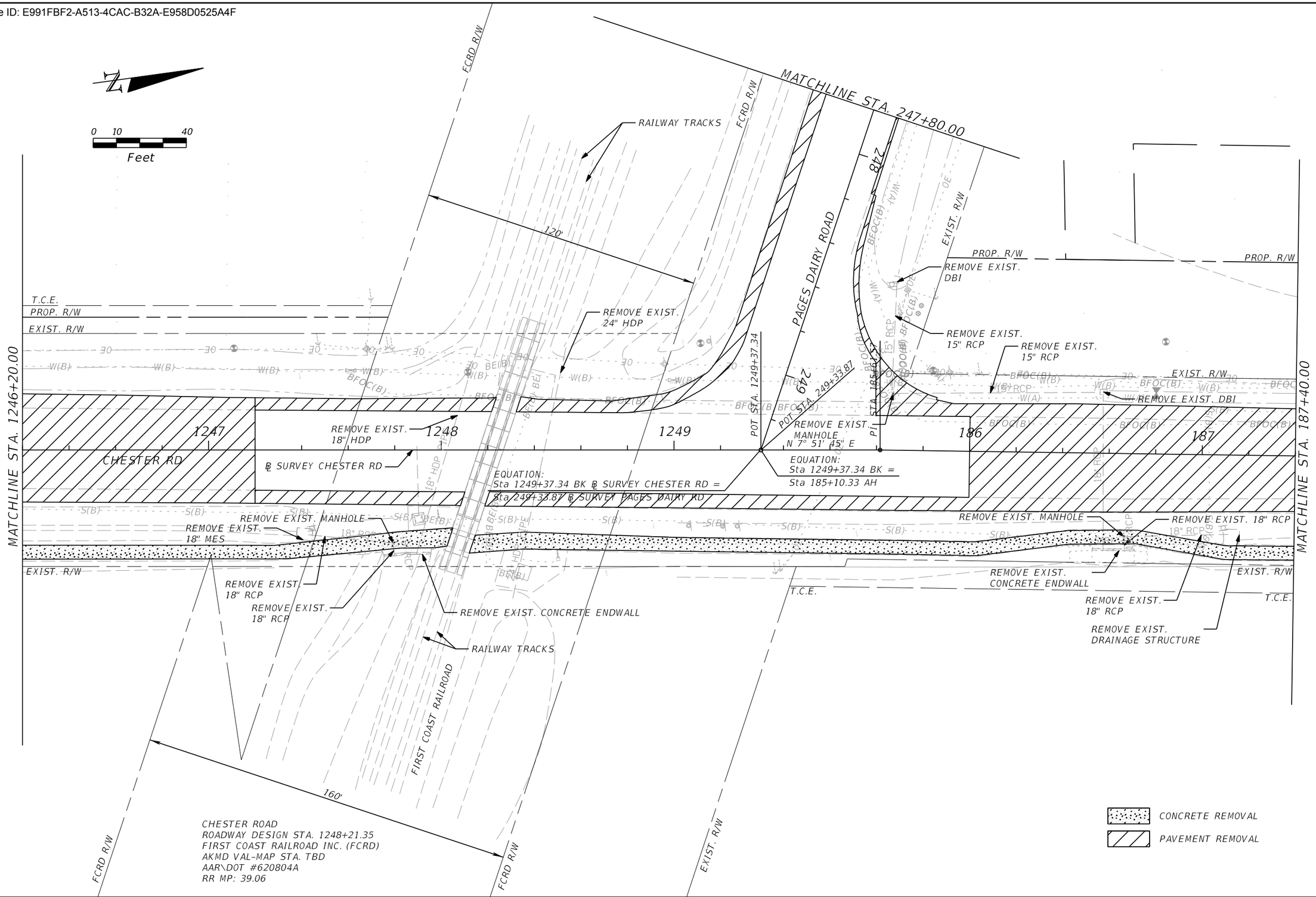
DEMOLITION SHEET (3)

SHEET NO. 48

Danny 12/14/2023 8:16:34 AM J:\Transportation\Projects\17-01-0202_ChesterInt\roadway\PLANDEM04.DGN

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

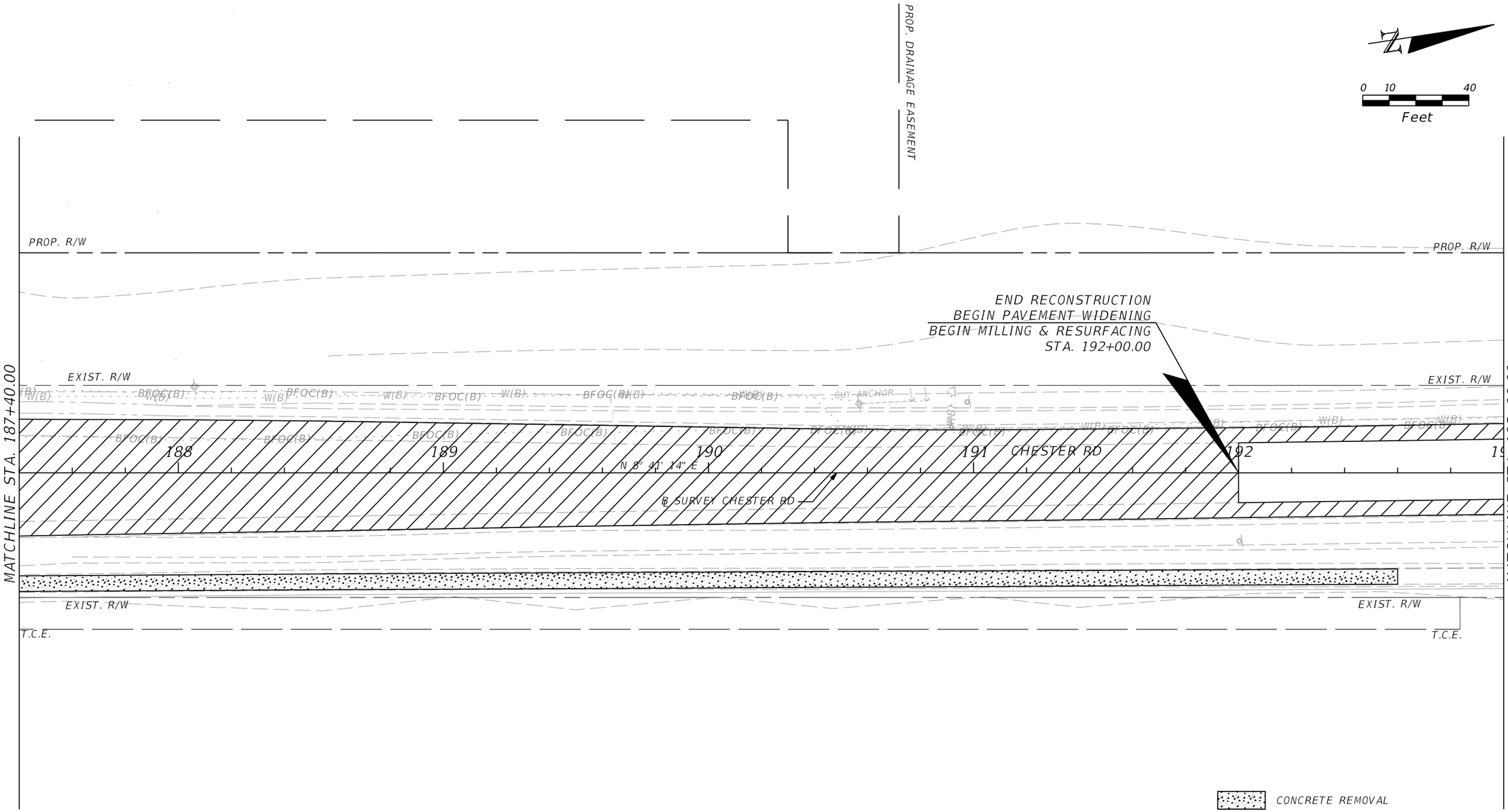
DEMOLITION SHEET (4)

SHEET NO. 49

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

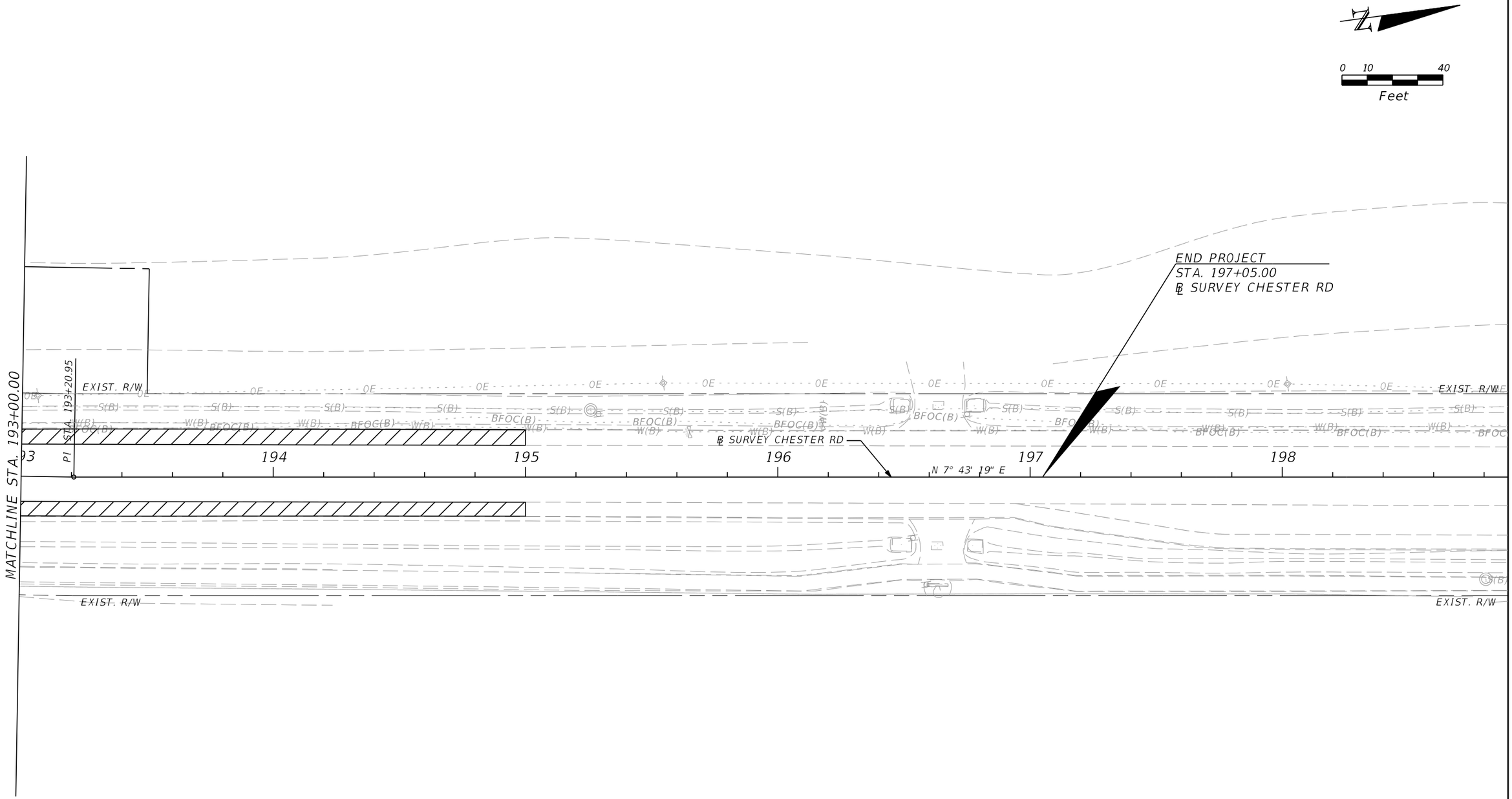
DEMOLITION SHEET (5)

SHEET NO. 50

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

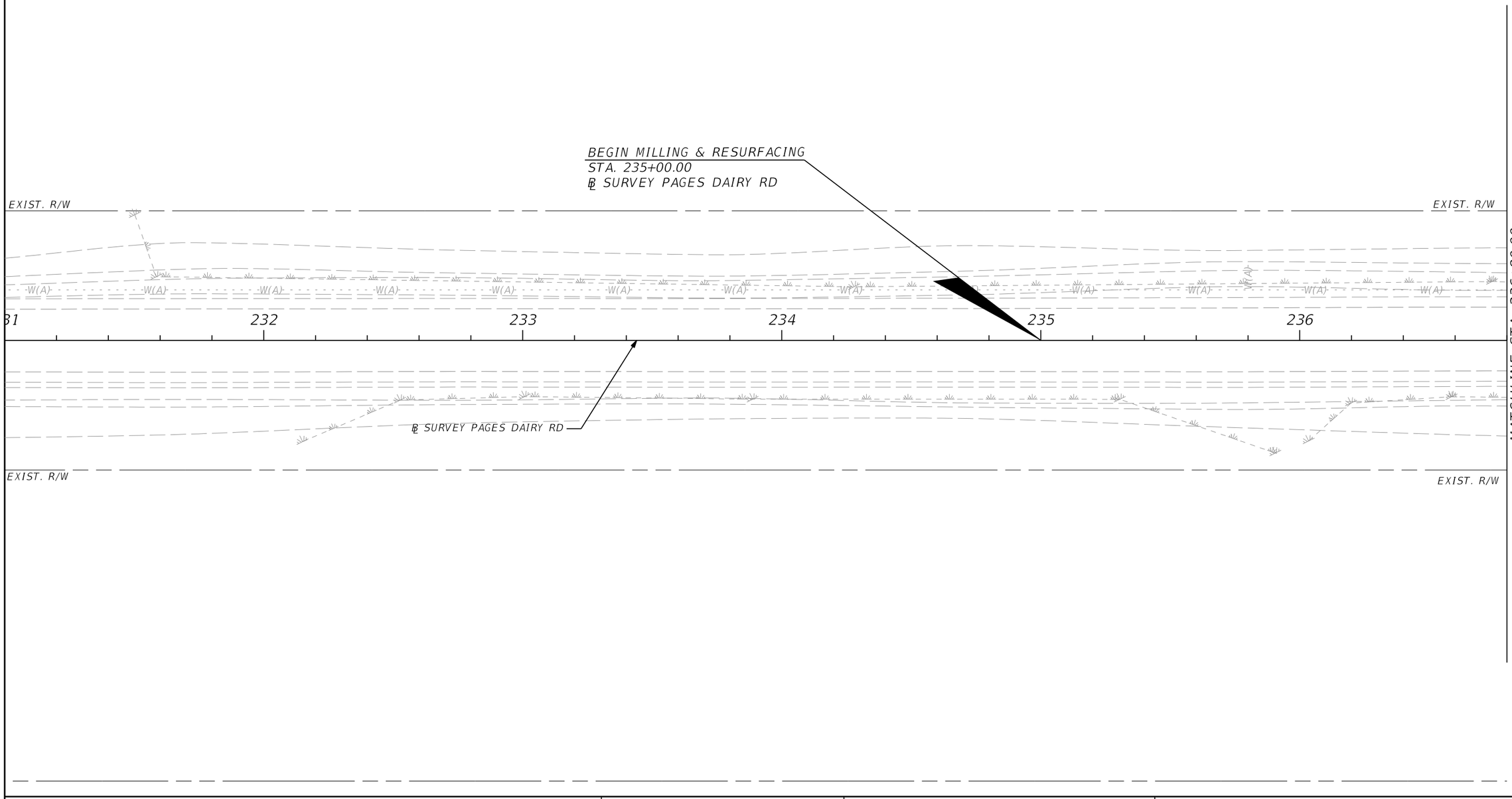
DEMOLITION SHEET (6)

SHEET NO. 51

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

DEMOLITION SHEET (7)

SHEET NO. 52

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PROP. DRAINAGE EASEMENT

N

0 10 40
Feet

BEGIN VARIABLE DEPTH
ASPHALT OVERLAY
238+70.00

BEGIN PAVEMENT WIDENING
STA. 240+00.00
℄ SURVEY PAGES DAIRY RD

EXIST. R/W

EXIST. R/W

MATCHLINE STA. 236+80.00

237 238 239 240 241 242

S 63° 45' 54" E

MATCHLINE STA. 242+20.00

EXIST. R/W

EXIST. R/W

CONCRETE REMOVAL

PAVEMENT REMOVAL

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NASSAU COUNTY ENGINEERING

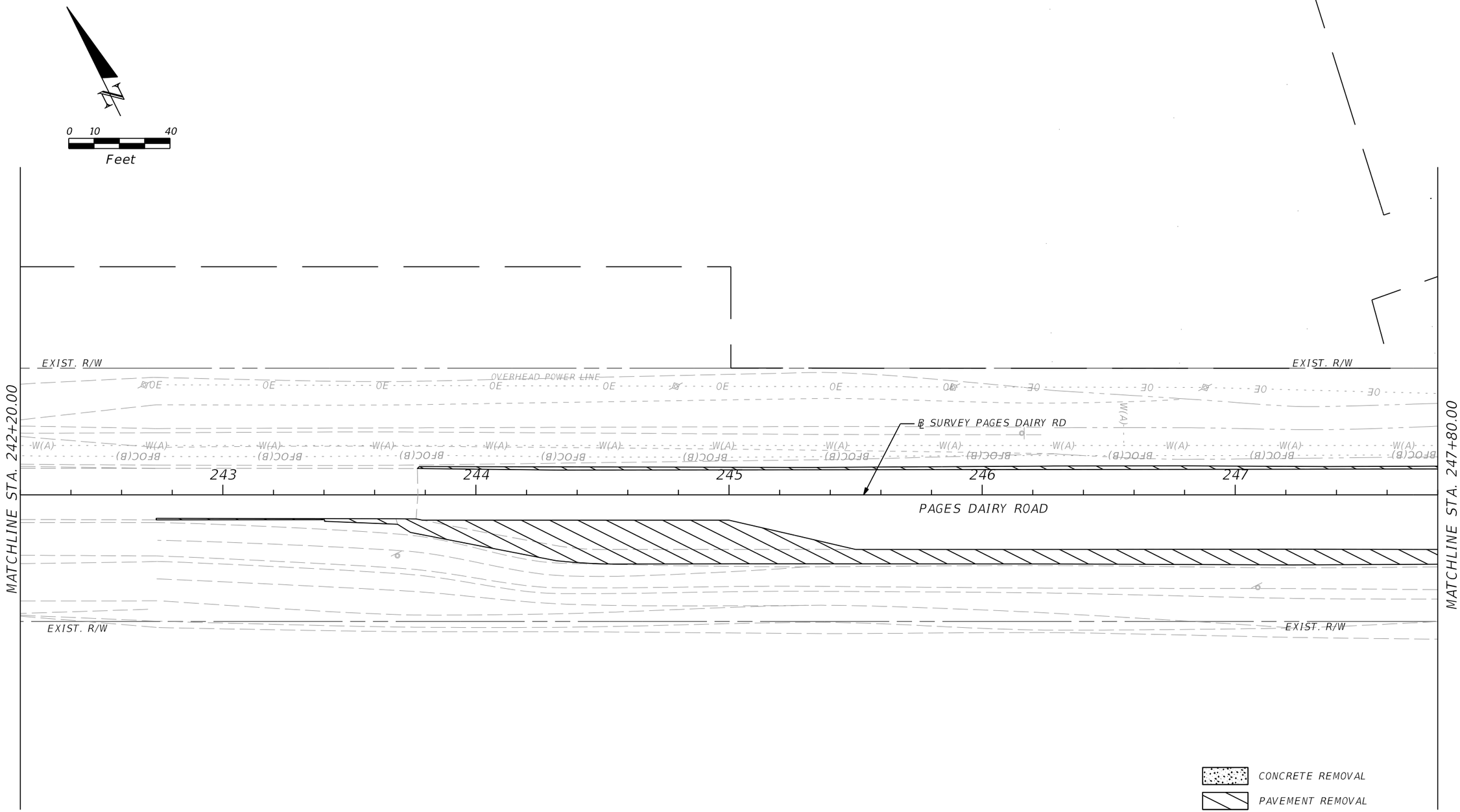
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

DEMOLITION SHEET (8)

SHEET NO. 53

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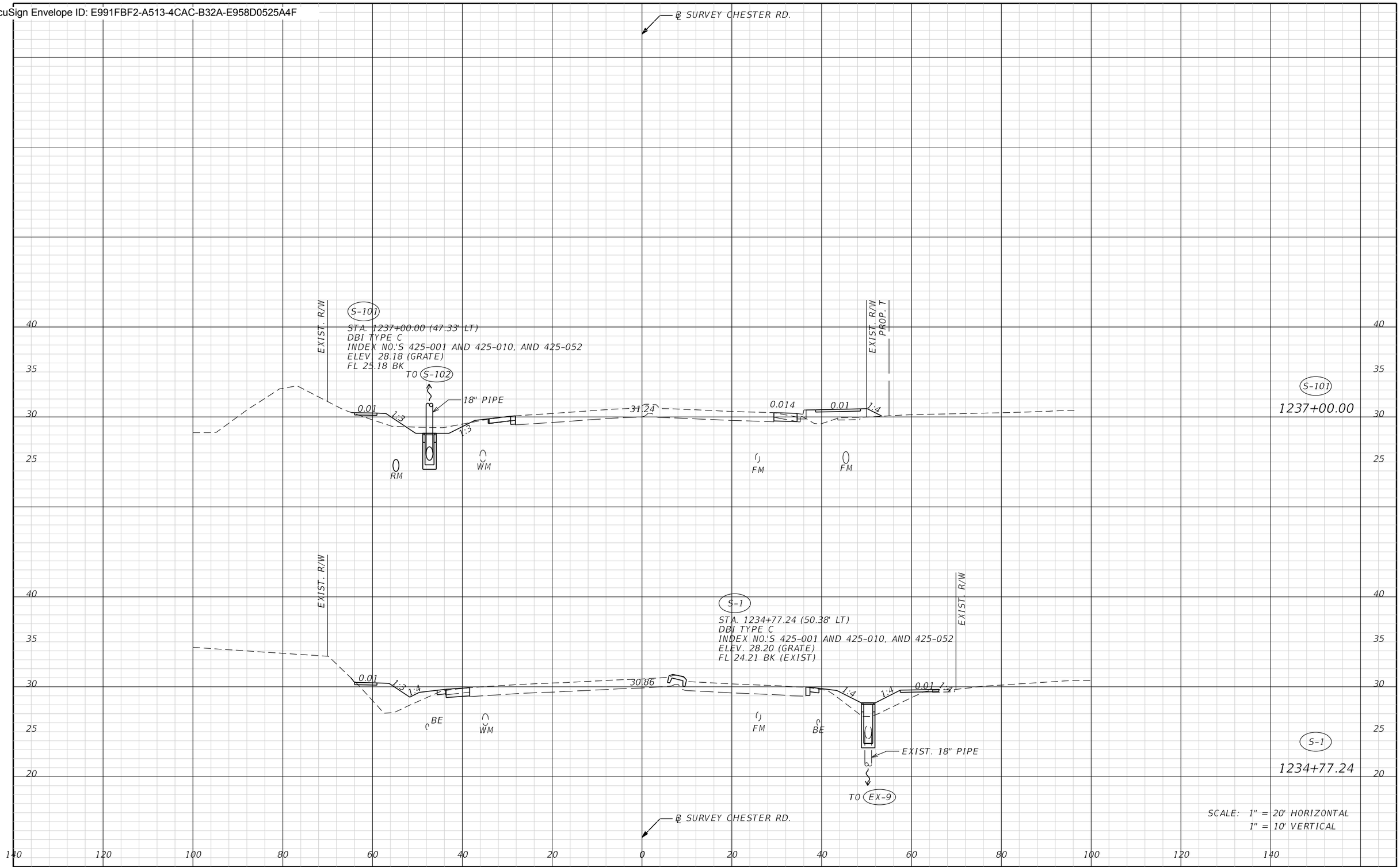
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

DEMOLITION SHEET (9)

SHEET NO. 54

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1" = 10' VERTICAL

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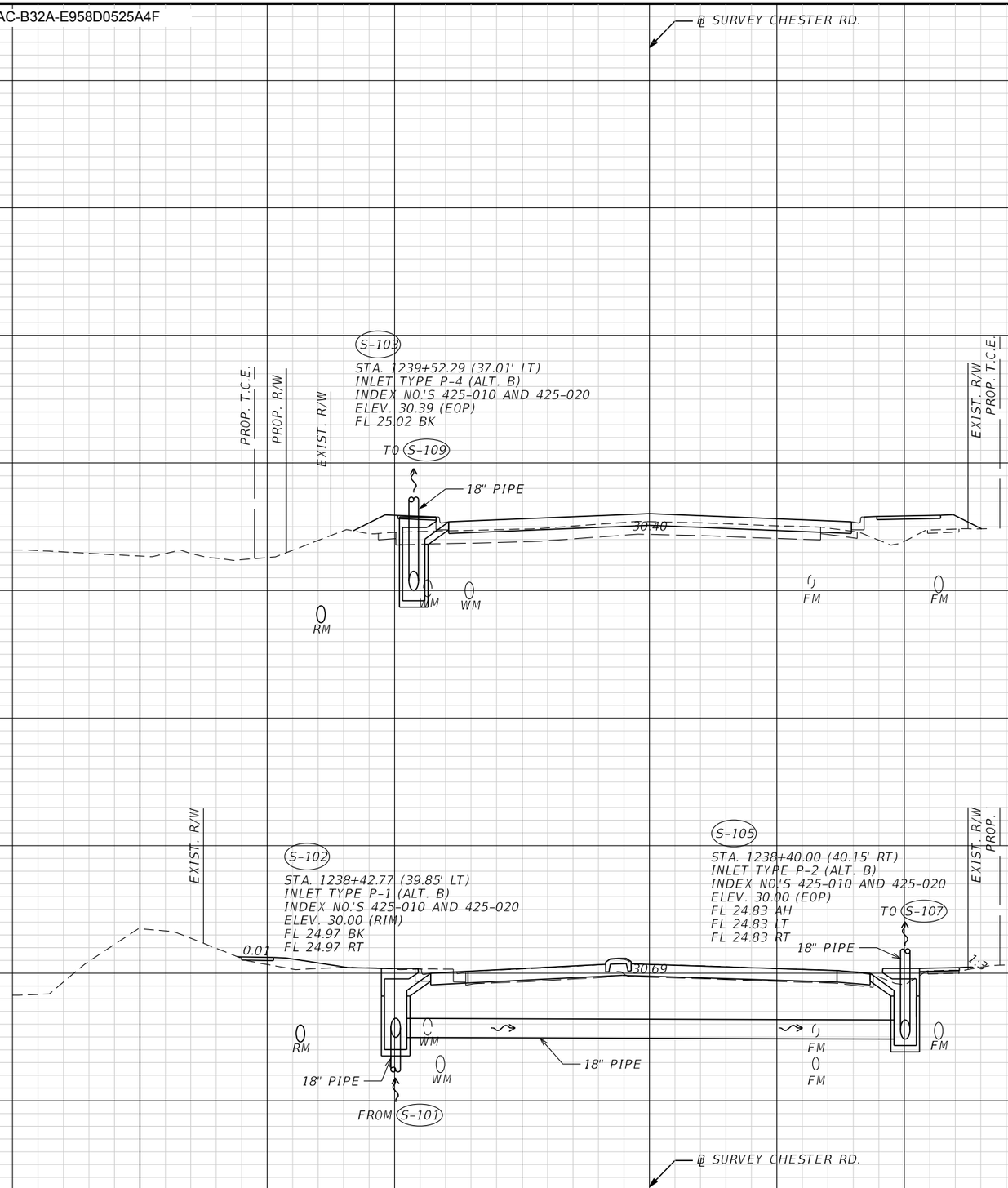
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

DRAINAGE STRUCTURES
CHESTER RD

SHEET NO. 55

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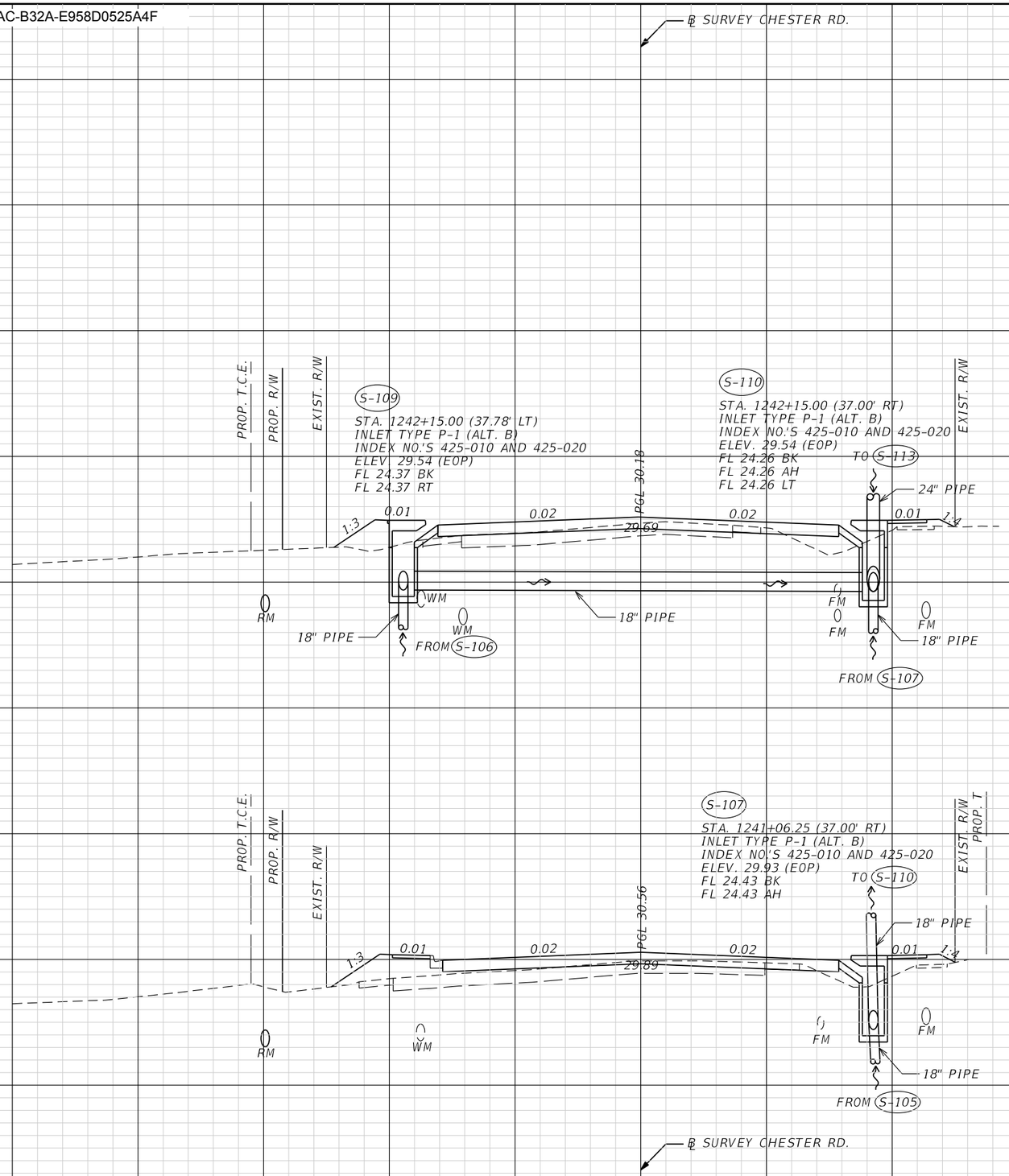
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

DRAINAGE STRUCTURES
CHESTER RD

SHEET NO. 56

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



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FL P.E. No. 73903

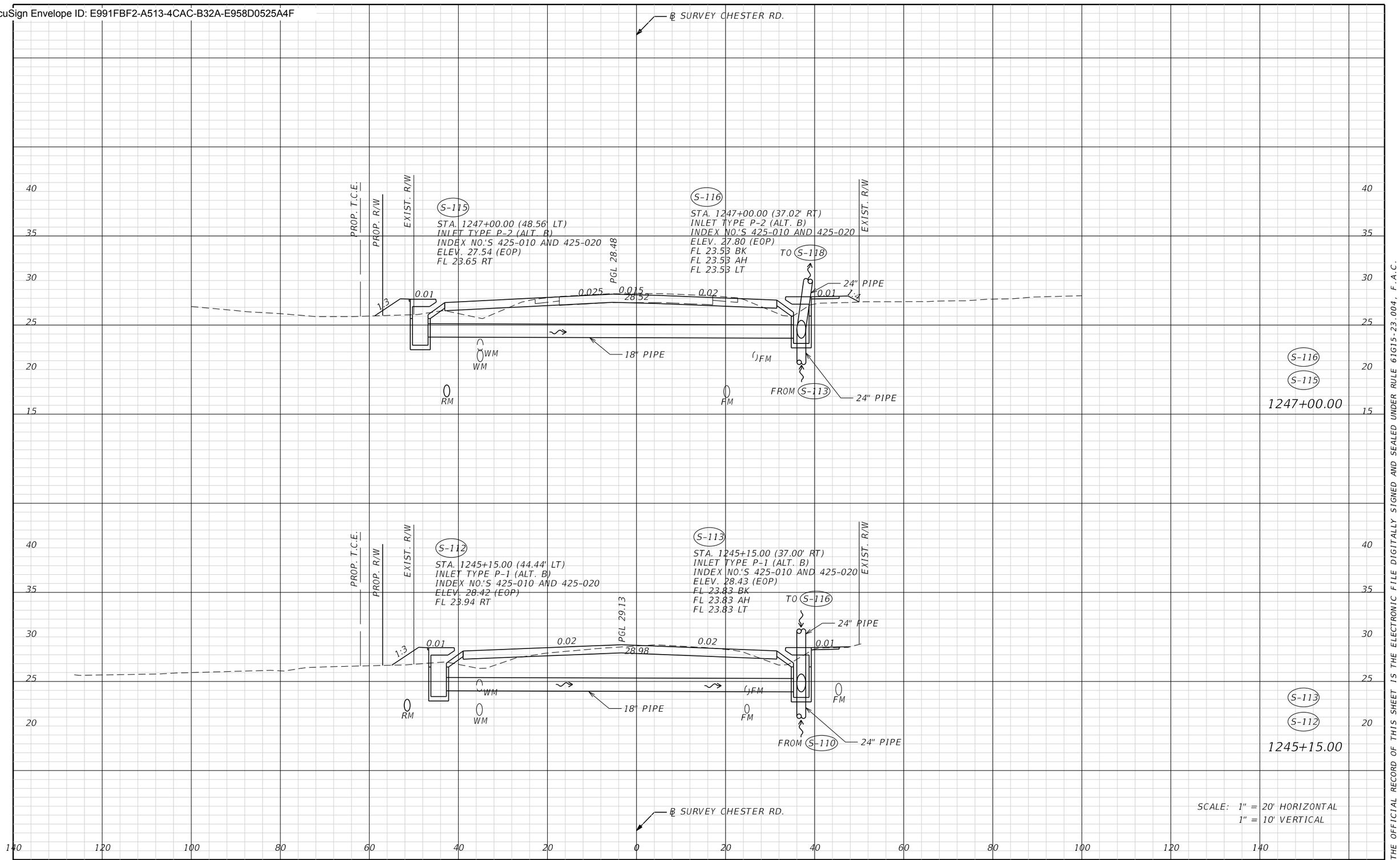
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

DRAINAGE STRUCTURES
CHESTER RD

SHEET NO. 57

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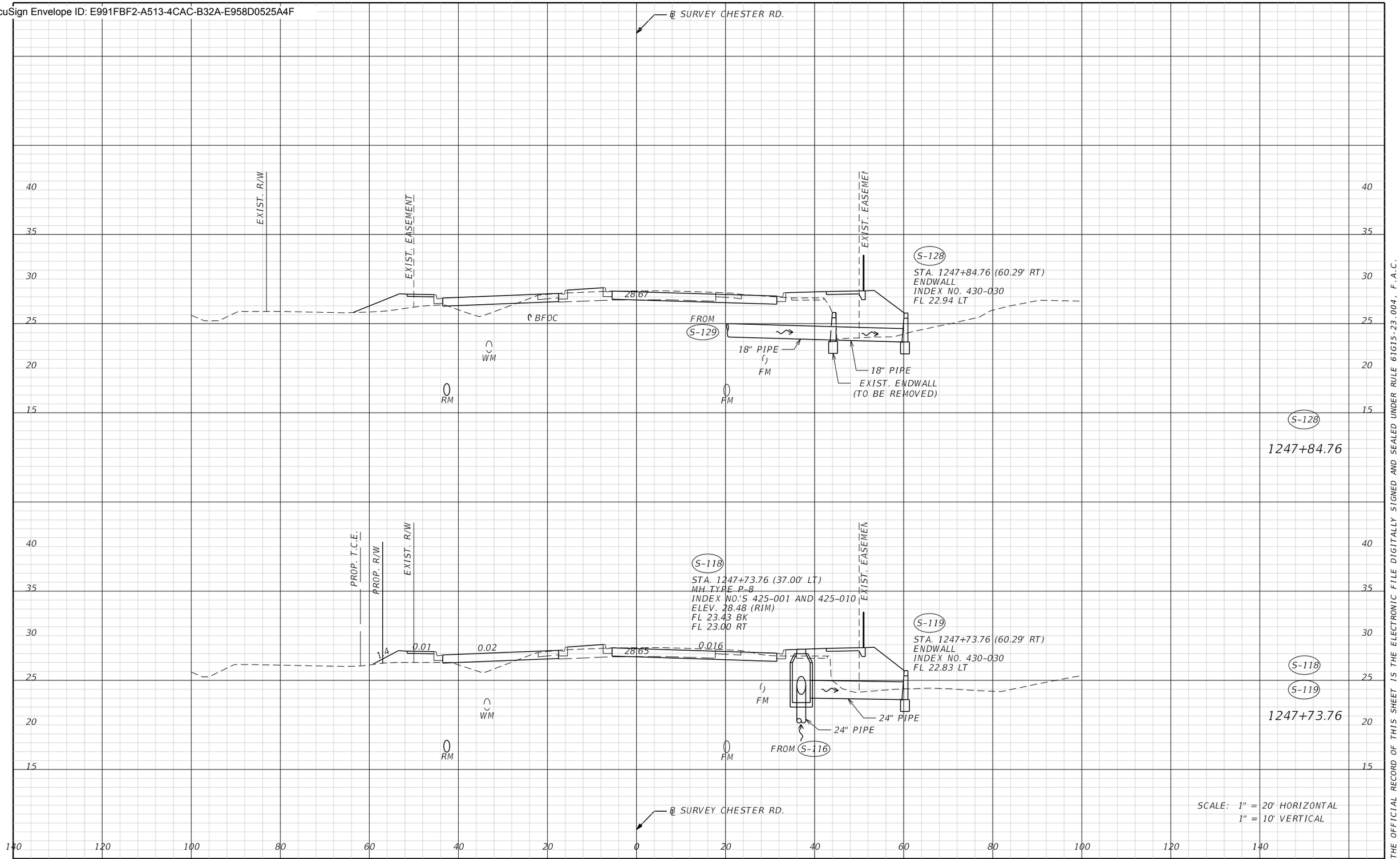
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

DRAINAGE STRUCTURES
CHESTER RD

SHEET NO. 58

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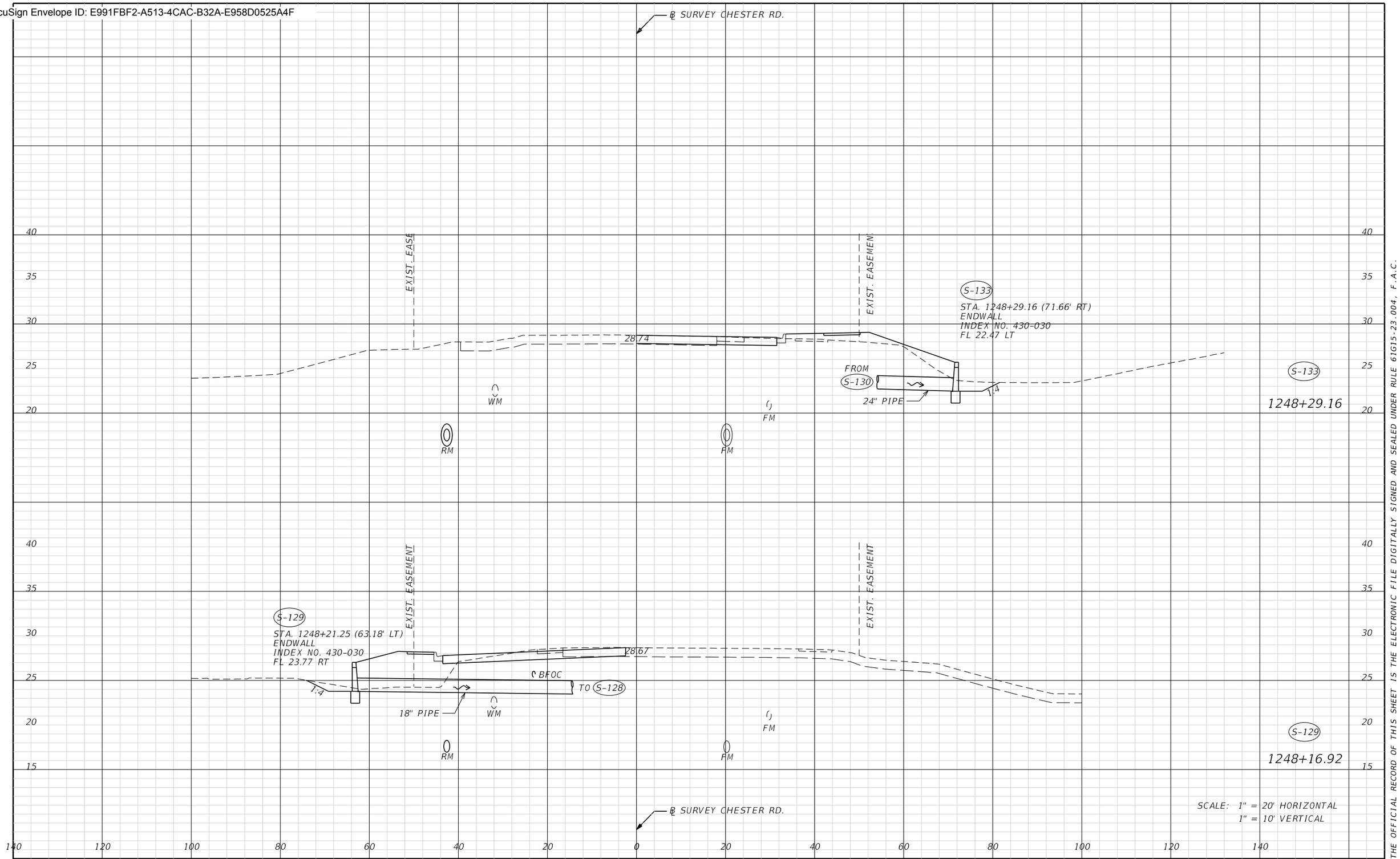
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

DRAINAGE STRUCTURES
CHESTER RD

SHEET NO. 59

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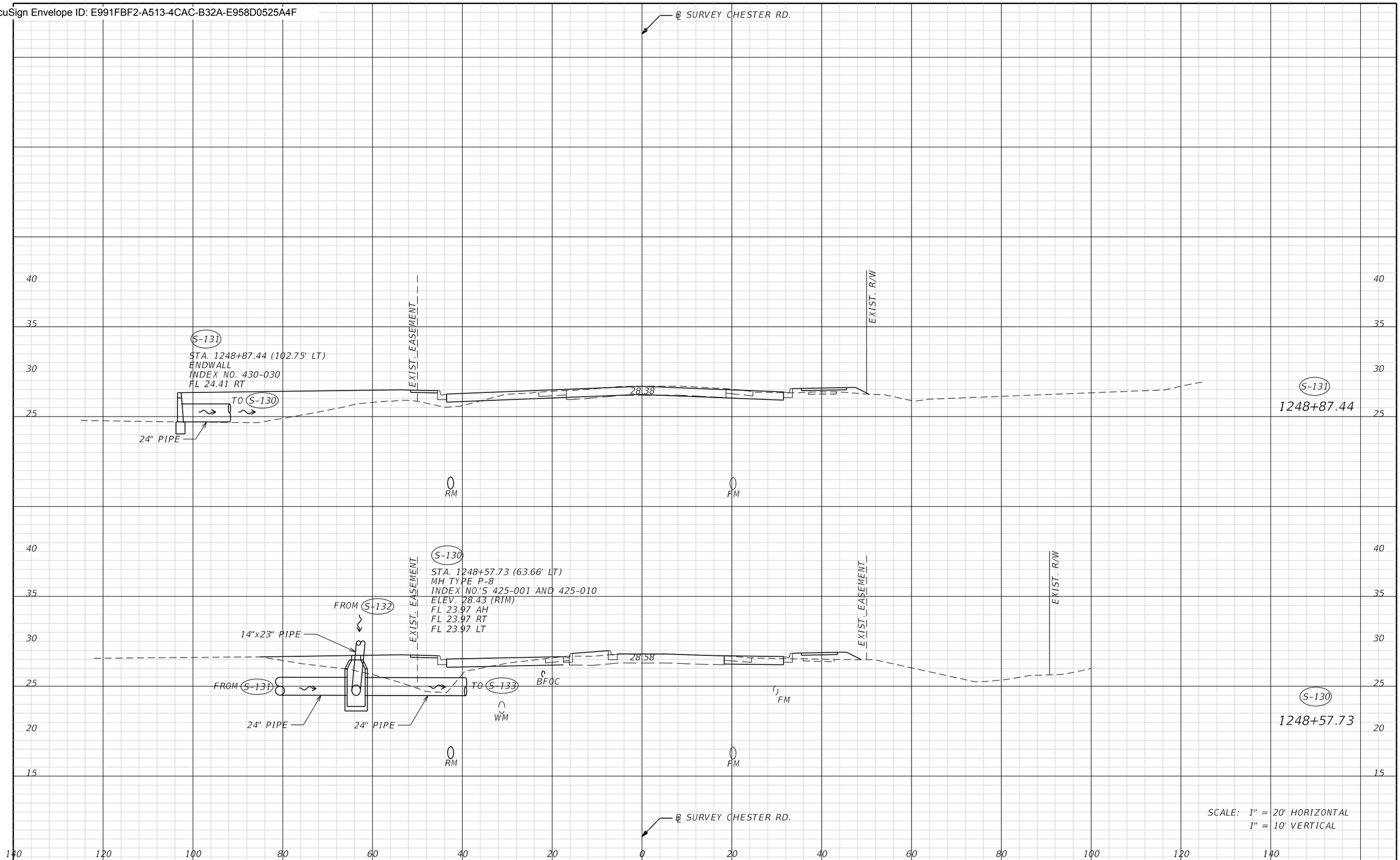
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

DRAINAGE STRUCTURES
CHESTER RD

SHEET NO. 60

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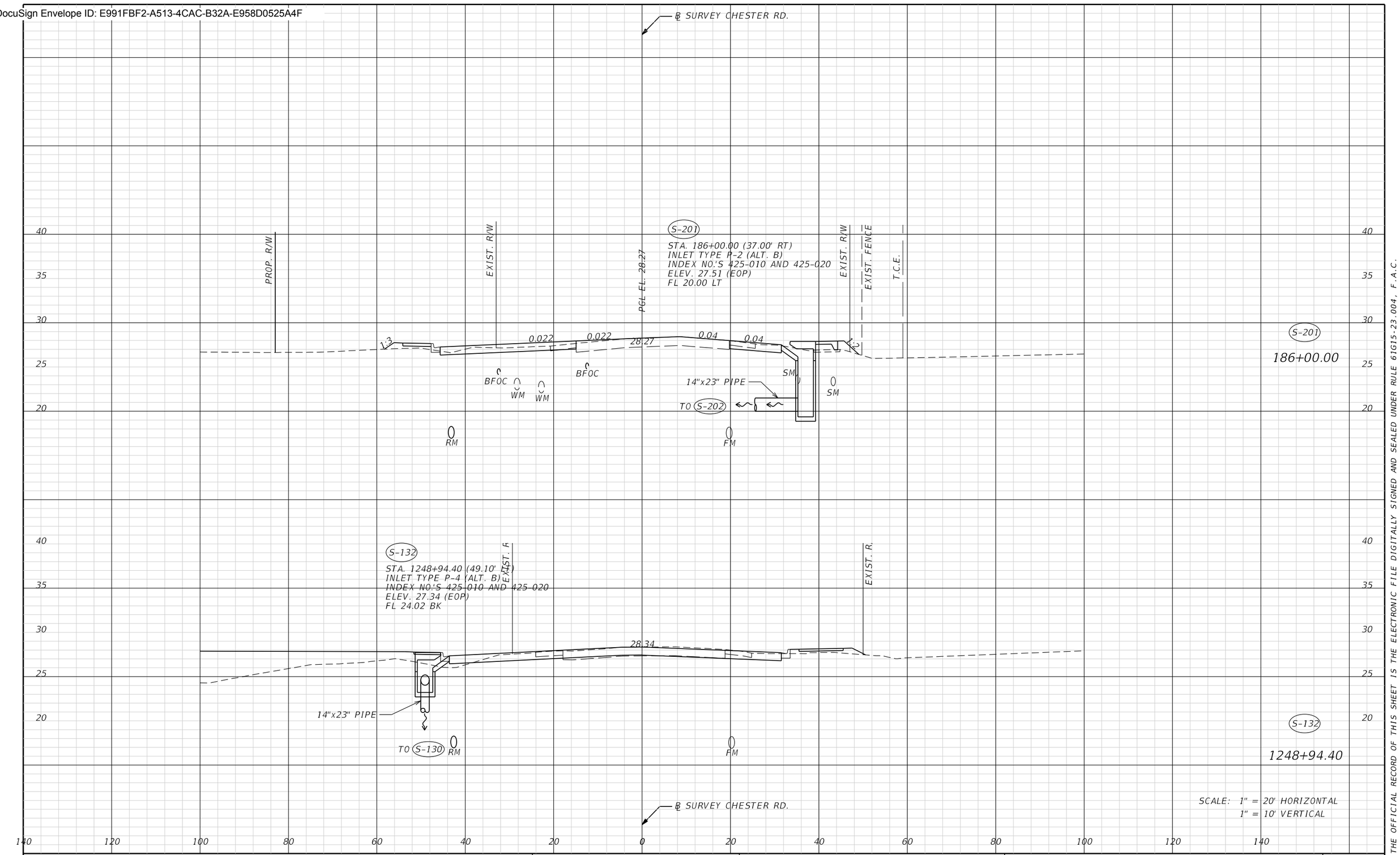
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

DRAINAGE STRUCTURES
CHESTER RD

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1" = 10' VERTICAL

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

DRAINAGE STRUCTURES
CHESTER RD

SHEET NO. 62

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

℄ SURVEY CHESTER RD.

PROP. R/W

EXIST.

EXIST

EXIST. F

T.C.E.

35
30
25
20

1:3

0.02

28.23

0.02

0.01

1:4

FUTURE GROUND BY OTHERS

186+57.07

FROM (S-404)

18" PIPE

30" PIPE

RM

CONST. PIPE COLLAR

BFOC

WM

WM

BFOC

FM

PIPE HEADWALL TO BE EXTENDED BY OTHERS

FM

(S-202)

STA. 186+10.33 (49.18' LT)
INLET TYPE P-2 (ALT. A, 4.0' DIA)
INDEX NO.'S 425-010 AND 425-020
ELEV. 27.24 (EOP)
FL 19.90 AH
FL 21.94 BK
FL 19.90 RT

PROP. R/W

EXIST. R/W

EXIST. R/W

T.C.E.

40
35
30
25
20
15

TO (S-203)

30" PIPE

1:3

0.0245

28.26

0.02

BFOC

BFOC

WM

WM

FM

FM

FROM (S-201)

30" PIPE

RM

14"x23" PIPE

FM

FROM (S-305)

(S-202)

186+10.33

℄ SURVEY CHESTER RD.

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

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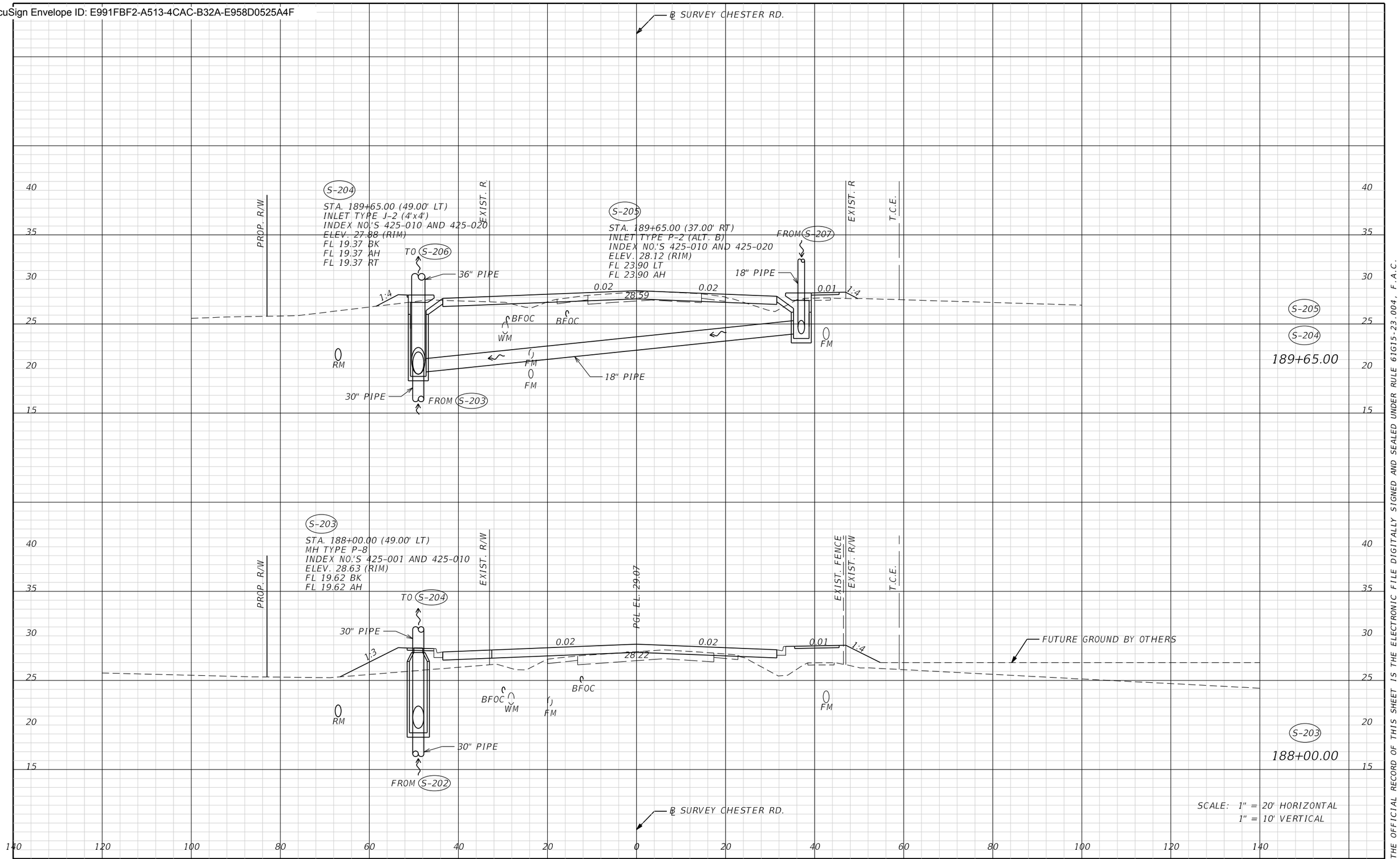
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

DRAINAGE STRUCTURES
CHESTER RD

SHEET NO. 63

Danny 12/14/2023 8:16:40 AM J:\Transportation\Projects\17-01-0202_ChesterInt\drainage\DRXSRD01_Chester Rd.DGN

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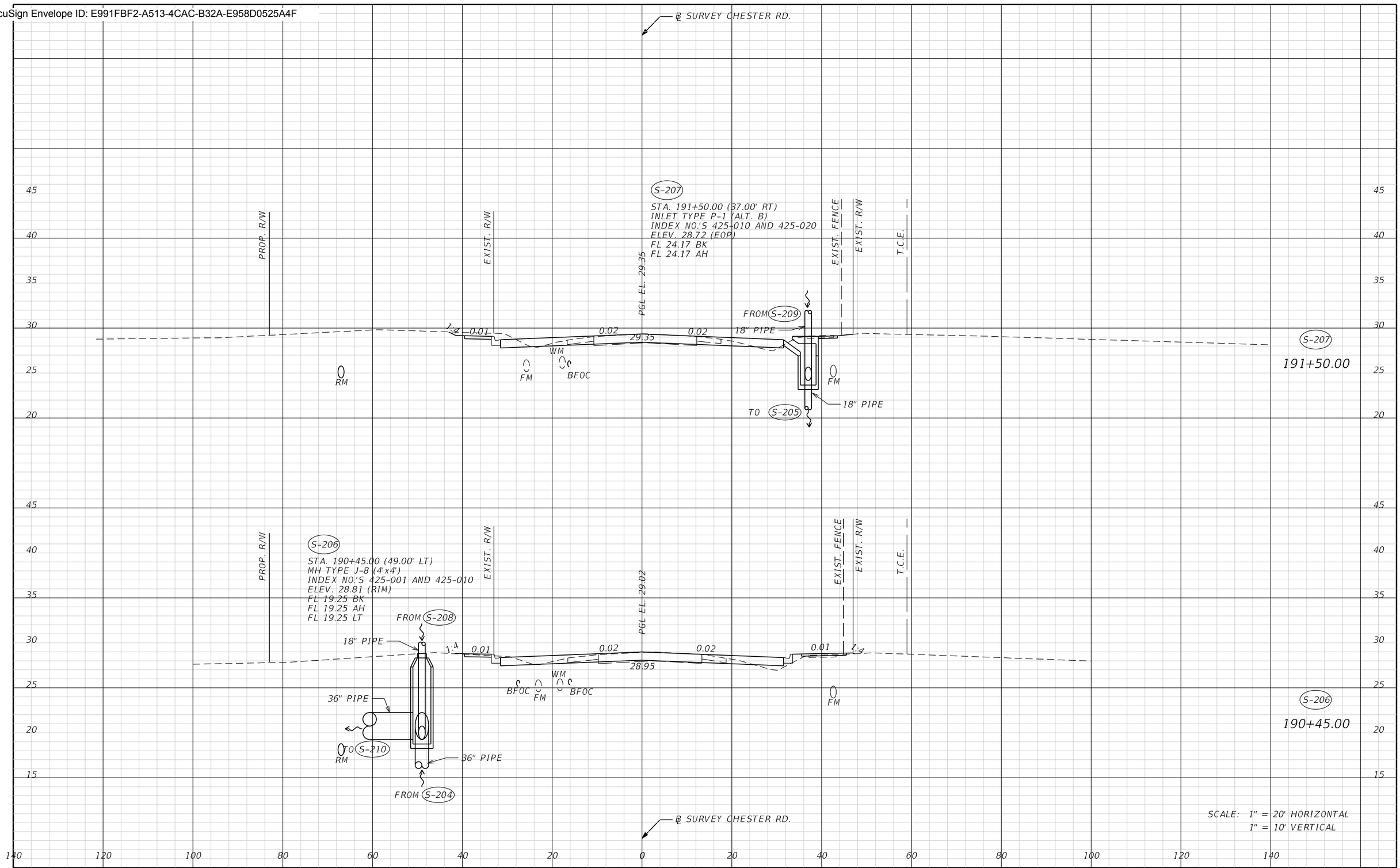
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

DRAINAGE STRUCTURES
CHESTER RD

SHEET NO. 64

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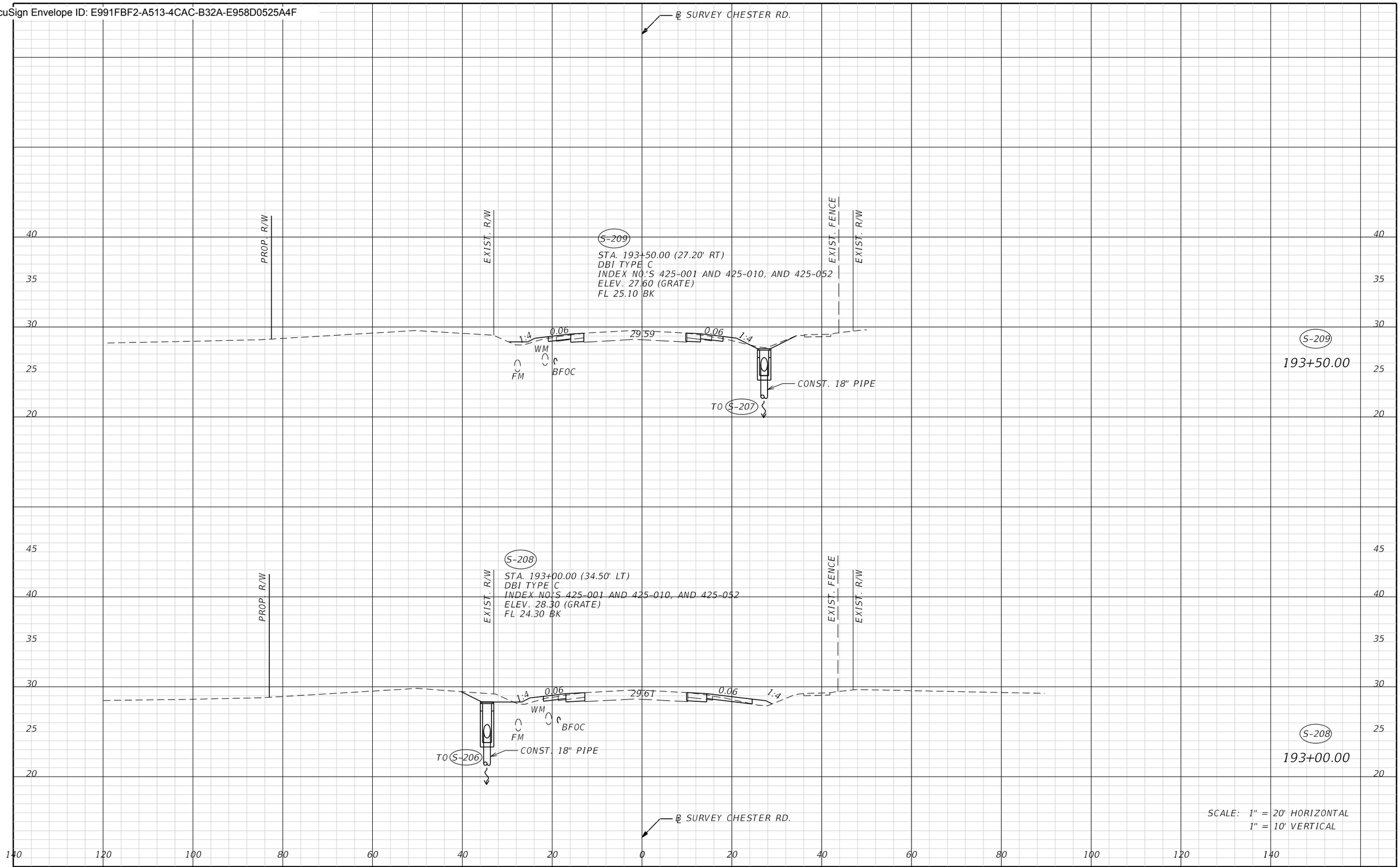
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

DRAINAGE STRUCTURES
CHESTER RD

SHEET NO. 65

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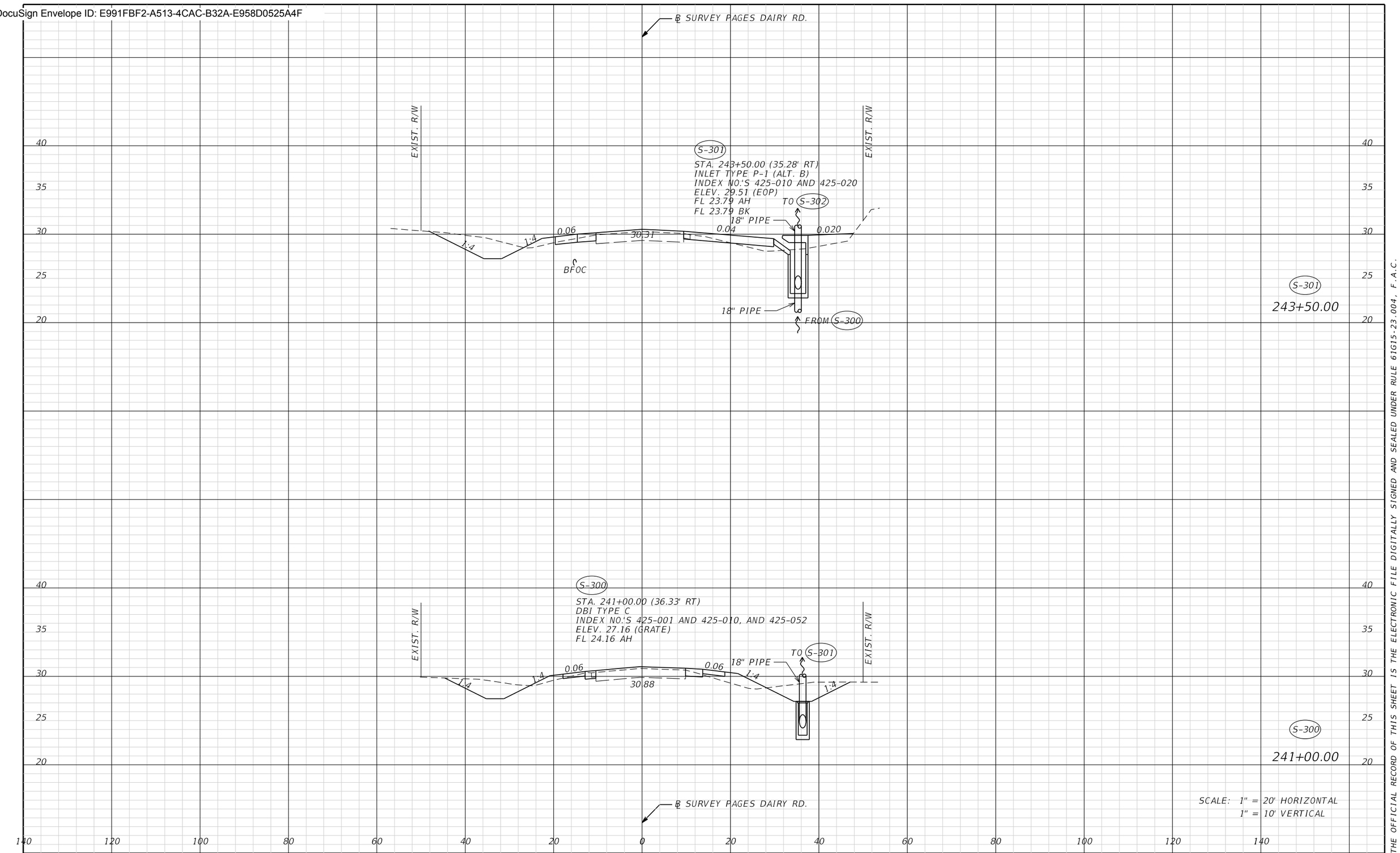
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

DRAINAGE STRUCTURES
CHESTER RD

SHEET NO. 66

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



S-301
243+50.00

S-300
241+00.00

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

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FL P.E. No. 73903

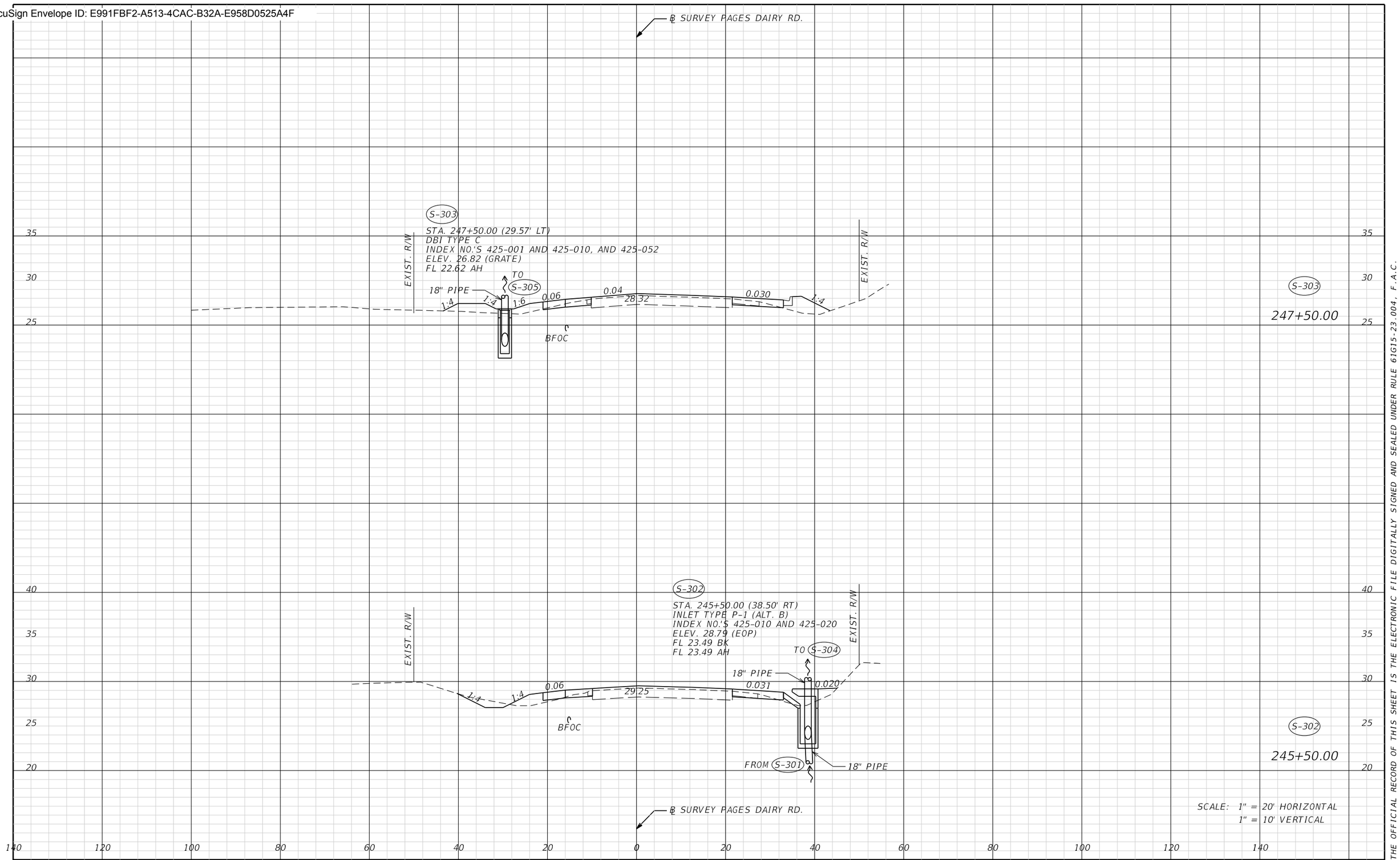
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

DRAINAGE STRUCTURES
PAGES DAIRY RD

SHEET NO. 67

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

DRAINAGE STRUCTURES
PAGES DAIRY RD

SHEET NO. 68

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

℄ SURVEY PAGES DAIRY RD.

S-306
STA. 248+70.74 (38.60' RT)
INLET TYPE P-1 (ALT. B)
INDEX NO.'S 425-010 AND 425-020
ELEV. 27.45 (EOP)
FL 23.25 BK

EXIST. R/W

28.33

1:3

BF0C

BF0C

18" PIPE

TO S-304

S-306
248+70.74

S-305
STA. 248+00.00 (32.08' LT)
MH TYPE P-8 (ALT. A, 4' DIA)
INDEX NO.'S 425-001 AND 425-010
ELEV. 29.08 (RIM)
FL 22.86 AH
FL 22.86 BK
FL 22.55 RT
TO S-202

EXIST. R/W

30" PIPE

1:4

28.32

BF0C

18" PIPE
FROM S-303

24" PIPE

S-304
STA. 248+00.00 (38.50' RT)
INLET TYPE P-1 (ALT. B)
INDEX NO.'S 425-010 AND 425-020
ELEV. 27.67 (EOP)
FL 23.10 BK
FL 23.10 AH
FL 22.62 LT

FROM S-306
18" PIPE
0.029

EXIST. R/W

1:4

18" PIPE
FROM S-302

S-305
S-304
248+00.00

℄ SURVEY PAGES DAIRY RD.

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

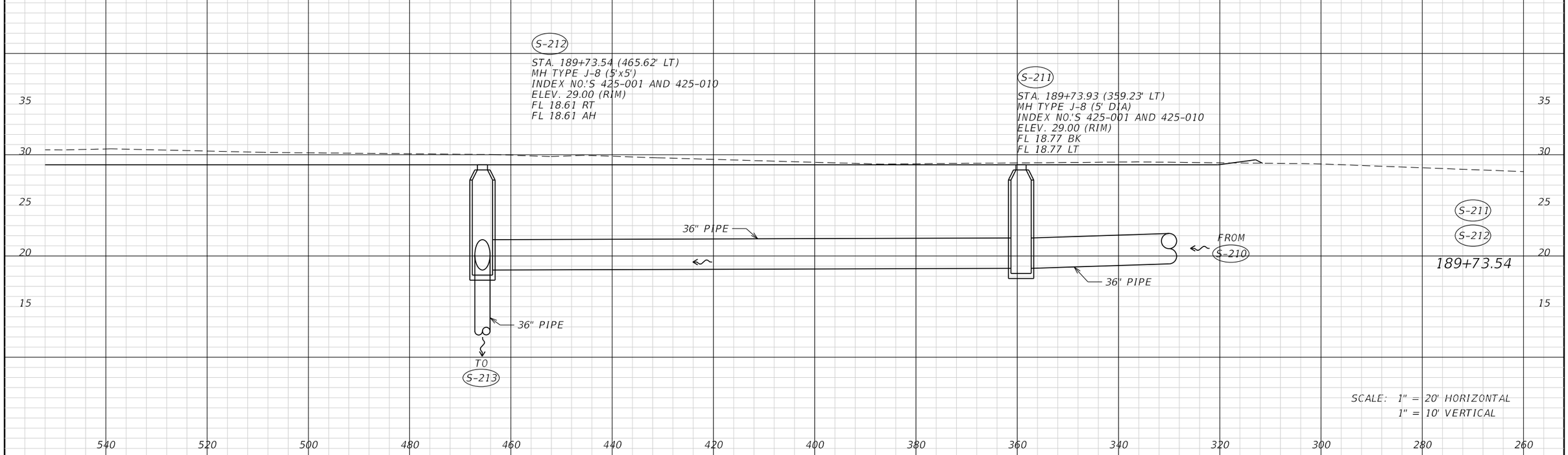
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

DRAINAGE STRUCTURES
PAGES DAIRY RD

SHEET NO. 69

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

DRAINAGE STRUCTURES
CHESTER RD

SHEET NO. 70

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

S-402
STA. 187+05.50 (376.10' LT)
CONST. MH TYPE P-8
INDEX NO. 425-001 AND 425-010
ELEV. 29.90 (RIM)
FL. 24.57 BK
FL. 24.57 AH

S-403
STA. 186+62.11 (238.91' LT)
CONST. MH TYPE P-8
INDEX NO. 425-001 AND 425-010
ELEV. 27.80 (RIM)
FL. 24.50 BK
FL. 24.50 AH

S-404
STA. 186+52.47 (162.06' LT)
DBI TYPE C
INDEX NO. 425-001 AND 425-010
AND 425-052
ELEV. 27.00 (GRATE)
FL. 24.46 BK
FL. 24.46 AH

℄ SURVEY PAGES DAIRY RD

243
244
245
246
247
248

EXIST. R/W

PAGES DAIRY ROAD

185+61.57
15° RCP

CONST. 73 LF OF 18" PIPE

CONST. 144 LF OF 18" PIPE

CONST. 78 LF OF 18" PIPE

CONST. 137 LF OF 18" PIPE

POND 1

SUMP EL = 14.0

BOTTOM EL = 17.0

NWL EL = 25.0

T.O.B EL=28.5

TOP OF MAINT. BERM EL.=29.5

1:15

1:4

A

A

NWL DISTANCE TO WETLAND = 58'

58'

WETLAND LINE

PROP. R/W

CHESTER RD

CONST. 36 LF OF 36" PIPE

CONST. 107 LF OF 36" PIPE

CONST. 176 LF OF 36" PIPE

CONST. 150 LF OF 36" PIPE

PROP. DRAINAGE EASEMENT

S-213
STA. 189+33.57 (465.47' LT)
CONST. 36" MES (1:4)
INDEX NO.S 430-021
FL. 18.00

S-210
STA. 190+45.00 (198.76' LT)
CONST. MH TYPE J-8
INDEX NO. 425-001 AND 425-010
ELEV. 29.00 (RIM)
FL. 19.03 BK
FL. 19.03 AH

193+20.95

N

0 15 60
Feet

STANDARD CLEARING AND GRUBBING

SOD VARIES

15' MAINT. BERM 1:15

1:4

MATCH EXIST.

DHW EL. 25YR 24HR = 26.72

NWL EL = 25.0

POND BOTTOM
SUMP BOTTOM

SECTION A-A
N.T.S

LEGEND

WETLAND AREA TO REMAIN UNDISTURBED

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REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

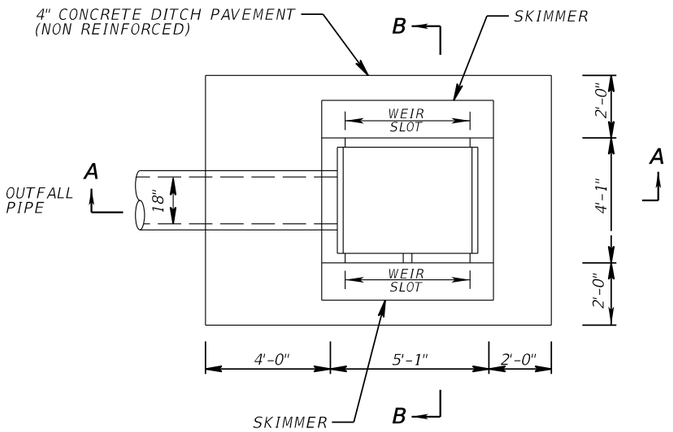
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

POND PLAN

SHEET NO. 71

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

NOTE: SEE SPECIAL DETAIL FOR SKIMMER DESIGN



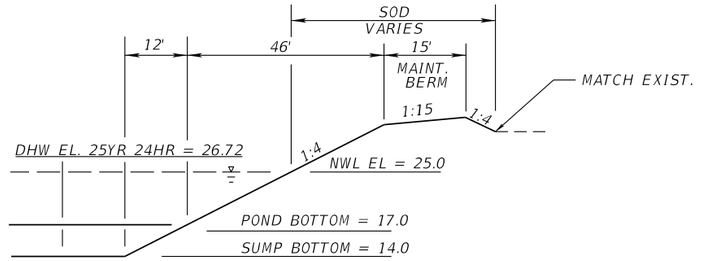
PLAN VIEW
1" = 5'

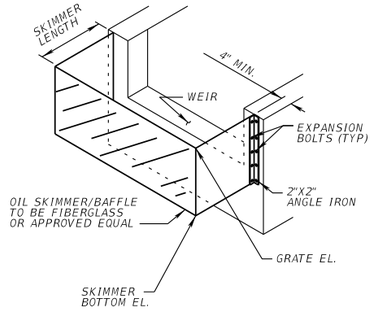
INLET GRATE NOT SHOWN FOR CLARITY

POND CONTROL DETAIL TABLE

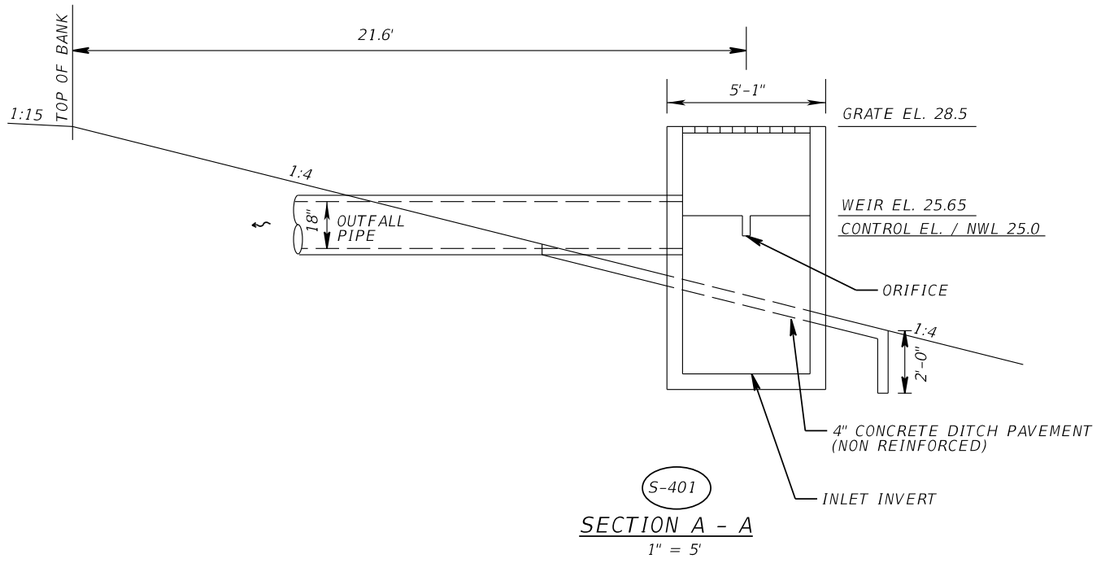
STRUC. NO.	STATION	OFFSET	INLET TYPE	GRATE ELEV. (FT NGVD)	WEIR ELEV. (FT NGVD)	CONTROL ELEV. (FT NGVD)	OUTFALL PIPE F.L. (FT NGVD)	INLET INVERT (FT NGVD)	WEIR SLOT WIDTH (INCH)	OUTFALL PIPE DIA. (INCH)	ORIFICE DIMENSIONS (INCHES)	ORIFICE AREA (SQ. IN)	SKIMMER HEIGHT (INCH)
P S-401	187+76.2	353.7' LT	DBI, TYPE D MODIFY	28.5	25.65	25.0	24.6	20.0	2-40	18	3.0"x7.8"	23.4	45
F													

NOTE: COST OF 4" CONC. DITCH PAVEMENT (NON REINFORCED, AND SKIMMER TO BE INCLUDED IN THE COST OF THE STRUCTURE

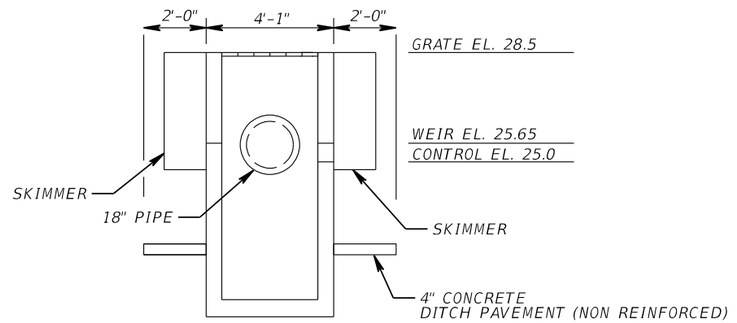




OIL SKIMMER/ BAFFLE DETAIL



SECTION A - A
1" = 5'



SECTION B - B
1" = 5'

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

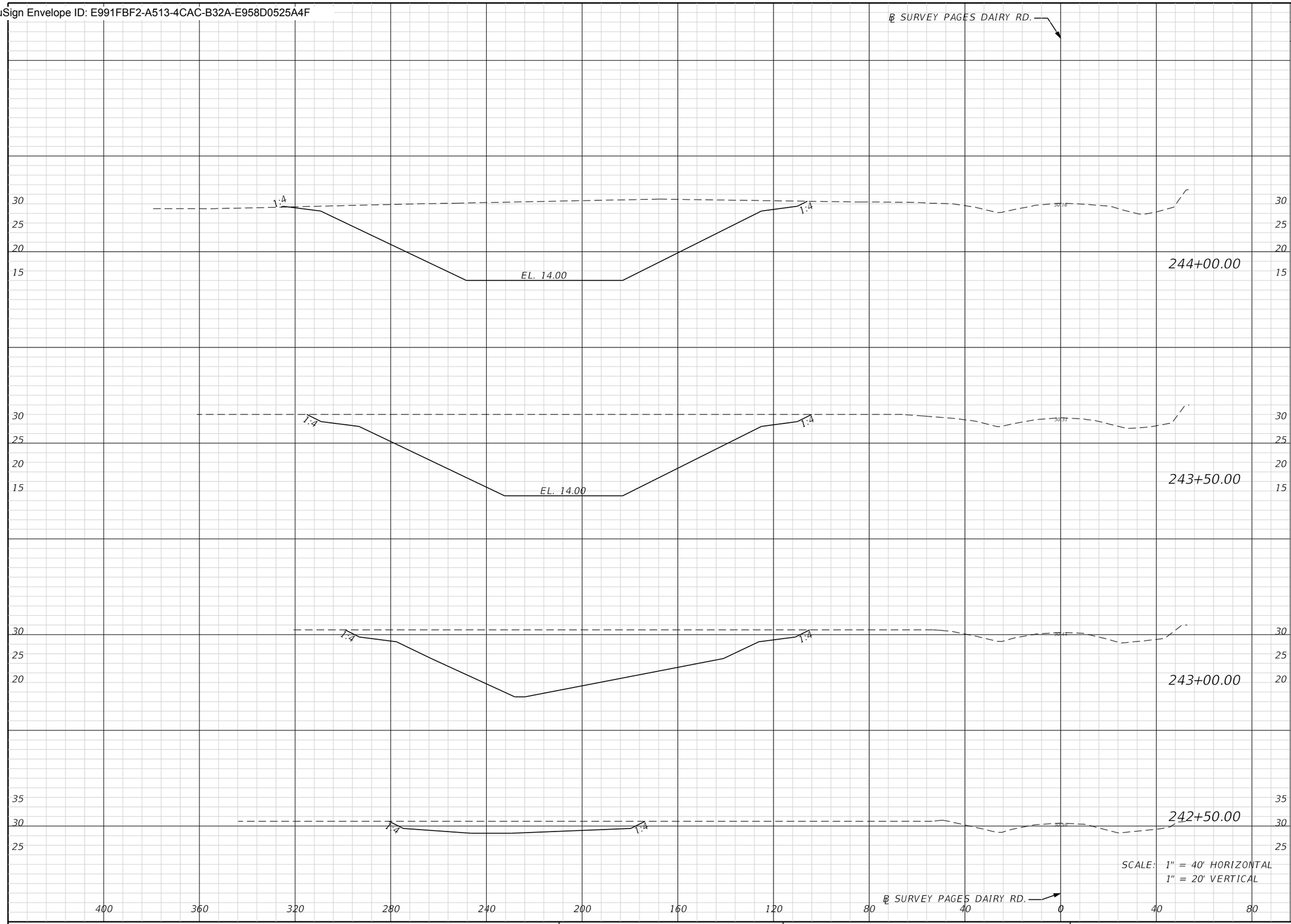
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

POND DETAILS

SHEET NO. 72

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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Regular Exc.		Embankment	
A	V	A	V
2197	3949	0	0
2069	3243	0	0
1434	1520	0	0
208	0	0	0

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

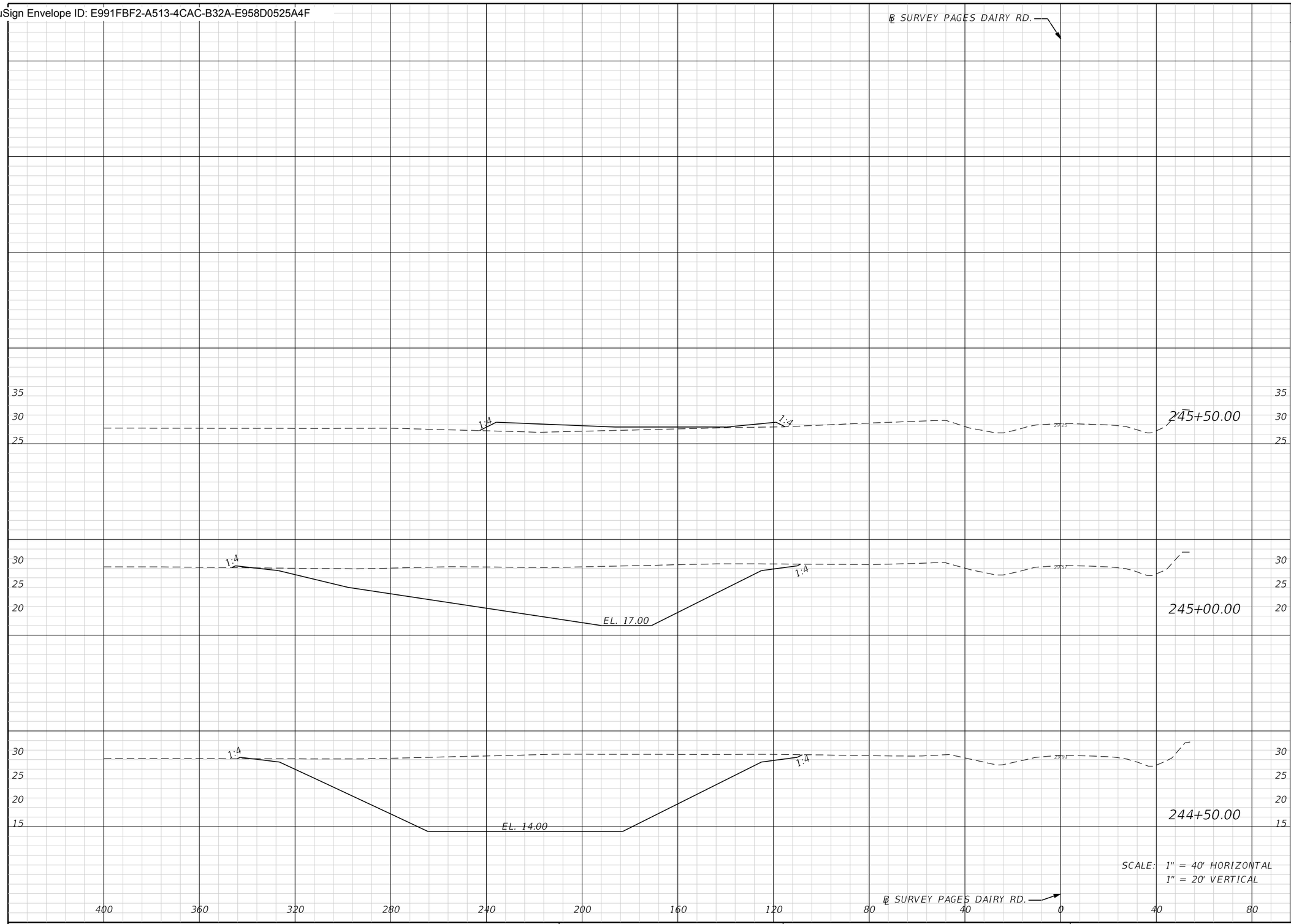
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

POND CROSS SECTIONS

SHEET NO. 73

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



Regular Exc.		Embankment	
A	V	A	V
TOTAL :	17880	TOTAL :	107
0	1417	110	104
1530	3567	2	2
2322	4184	1	1

SCALE: 1" = 40' HORIZONTAL
1" = 20' VERTICAL

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

POND CROSS SECTIONS

SHEET NO. 74

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

DATE OF RECENT SURVEY: OCTOBER, 2020

RECENT SURVEY MADE BY: UNIVERSAL ENGINEERING SCIENCES, INC.
SUBMITTED BY: STEPHEN R. WEAVER, P.E.

DATE OF PREVIOUS SURVEY: NOVEMBER, 2017

RECENT SURVEY MADE BY: UNIVERSAL ENGINEERING SCIENCES, INC.
SUBMITTED BY: STEPHEN R. WEAVER, P.E.

NASSAU COUNTY

FINANCIAL PROJECT ID : N/A

PROJECT NAME: PAGES DAIRY AND CHESTER ROAD INTERSECTION

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADS

PAIGES DAIRY ROAD SURVEY BEGINS STA.: 236+90 SURVEY ENDS STA.: 195+00
CHESTER ROAD SURVEY BEGINS STA.: 220+00 SURVEY ENDS STA.: 239+33.87
REFERENCE : BL SURVEY

DISTRICT: 2
ROAD NO.: PAGES DAIRY/CHESTER ROAD
COUNTY: NASSAU

	ORGANIC CONTENT		MOISTURE CONTENT		SIEVE ANALYSIS RESULTS PERCENTAGE PASSING						ATTERBERG LIMITS (%)			SOIL CLASSIFICATION	
STRATUM NO.	NO. OF TESTS	% ORGANIC	NO. OF TESTS	% MOISTURE	NO. OF TESTS	10 MESH	40 MESH	60 MESH	100 MESH	200 MESH	NO. OF TESTS	LIQUID LIMIT	PLASTICITY INDEX	AASHTO GROUP	DESCRIPTION
1	0	-	12	16-32	9	100	99-100	97-99	44-53	1-8	0	-	-	A-3	Fine SAND, fine SAND with Silt; fine SAND with Clay.
2	0	-	2	11-26	1	98	97	95	61	10-11	0	-	-	A-2-4	Fine SAND with Silt

NOTES:

1. SOIL BOUNDARIES ARE APPROXIMATE AND REPRESENT SOIL STRATA AT EACH BORING LOCATION ONLY. SOIL SURVEY SHEET CONTAINS INFORMATION PERFORMED BY UNIVERSAL ENGINEERING SCIENCES.

2. THE MATERIAL FROM STRATA 1 AND 2 IS SELECT MATERIAL AND APPEARS SATISFACTORY FOR USE IN THE SUBGRADE AND EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH INDEX NO. 505. HOWEVER, THE MATERIAL IN STRATUM 2 MAY RETAIN EXCESS MOISTURE AND BE DIFFICULT TO DRY AND COMPACT. IT SHOULD BE USED IN EMBANKMENT ABOVE WATER LEVEL EXISTING AT THE TIME OF CONSTRUCTION.

3. THE DATA PRESENTED ON THIS ROADWAY SOIL SURVEY SHEET IS SPECIFIC ONLY AT THE LOCATIONS TESTED AND MAY NOT REPRESENT THE RANGE OF VALUES THAT MAY BE ENCOUNTERED. SHOULD QUESTIONS ARISE REGARDING THE SUBSURFACE CONDITIONS. IT IS INCUMBENT UPON THE INDIVIDUAL RAISING THE QUESTION TO PERFORM ADDITIONAL SUBSURFACE EXPLORATION AND TESTING AS NECESSARY TO ADDRESS SUCH QUESTIONS.

4. TEMPORARY LOWERING OF GROUNDWATER (DEWATERING) MAY BE NECESSARY AT SOME LOCATIONS THAT REQUIRE DEEP CUTS.

5. THE SYMBOL "-" REPRESENTS AN UNTESTED PARAMETER.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEPHEN R. WEAVER, P.E.
P.E. LICENSE NUMBER 37389
UNIVERSAL ENGINEERING SCIENCES, INC.
5561 FLORIDA MINING BLVD. S.
JACKSONVILLE, FLORIDA 32257
CERTIFICATE OF AUTHORIZATION 00000549

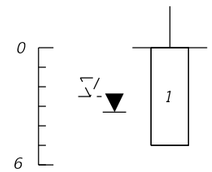
NASSAU COUNTY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
PAGES DAIRY CHESTER ROAD	NASSAU	N/A

SOIL SURVEY SHEET

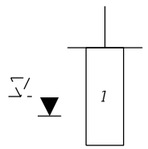
SHEET NO. 75

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

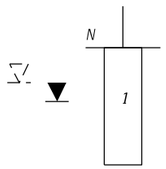
STA. 237+90 CHESTER RD BL SURVEY
OFF. 45' LT
DATE 11/8/2017
DRILLER S. TORRES



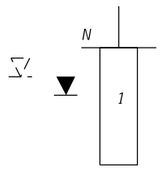
STA. 237+90 CHESTER RD BL SURVEY
OFF. 45' RT
DATE 11/8/2017
DRILLER S. TORRES



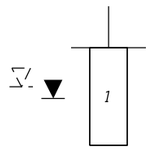
STA. 242+42 CHESTER BL SURVEY
OFF. 33' LT
DATE 11/5/20
DRILLER B. TRUITT



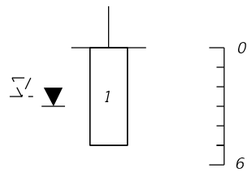
STA. 242+67 CHESTER RD BL SURVEY
OFF. 33' RT
DATE 11/5/20
DRILLER B. TRUITT



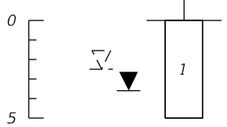
STA. 246+00 CHESTER RD BL SURVEY
OFF. 25' LT
DATE 11/8/2017
DRILLER S. TORRES



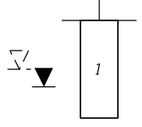
STA. 246+00 CHESTER RD BL SURVEY
OFF. 25' RT
DATE 11/8/2017
DRILLER S. TORRES



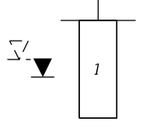
STA. 186+30 CHESTER RD BL SURVEY
OFF. 25' LT
DATE 11/8/2017
DRILLER S. TORRES



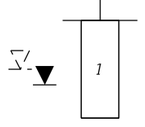
STA. 186+30 CHESTER RD BL SURVEY
OFF. 25' RT
DATE 11/8/2017
DRILLER S. TORRES



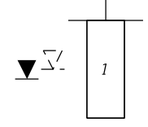
STA. 190+95 CHESTER RD BL SURVEY
OFF. 25' RT
DATE 11/8/2017
DRILLER S. TORRES



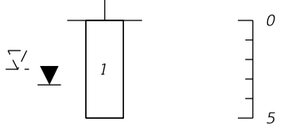
STA. 192+85 CHESTER RD BL SURVEY
OFF. 20' LT
DATE 11/8/2017
DRILLER S. TORRES



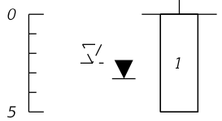
STA. 244+70 PAGES DAIRY BL SURVEY
OFF. 13' LT
DATE 11/17/2017
DRILLER S. TORRES



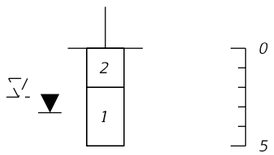
STA. 244+70 PAGES DAIRY BL SURVEY
OFF. 13' RT
DATE 11/17/2017
DRILLER S. TORRES



STA. 247+45 PAGES DAIRY BL SURVEY
OFF. 13' LT
DATE 11/17/2017
DRILLER S. TORRES



STA. 247+45 PAGES DAIRY BL SURVEY
OFF. 13' RT
DATE 11/17/2017
DRILLER S. TORRES



LEGEND

1	Fine SAND, fine SAND with Silt, fine SAND with Clay (A-3)
2	Fine SAND with Silt (A-2-4)
▼	Water Table Elevation
	Estimated Seasonal High Groundwater Level
GNE	Groundwater Level Not Encountered

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEPHEN R. WEAVER, P.E.
P.E. LICENSE NUMBER 37389
UNIVERSAL ENGINEERING SCIENCES, INC.
5561 FLORIDA MINING BLVD. S.
JACKSONVILLE, FLORIDA 32257
CERTIFICATE OF AUTHORIZATION 00000549

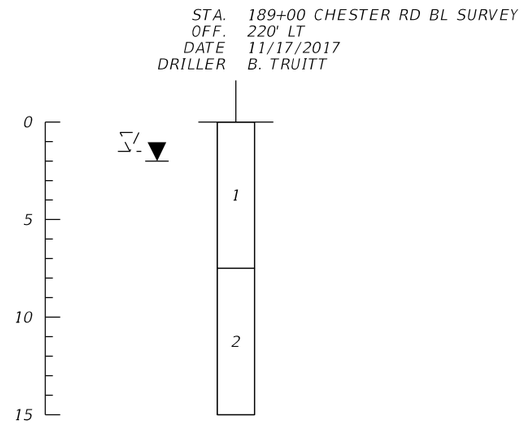
NASSAU COUNTY

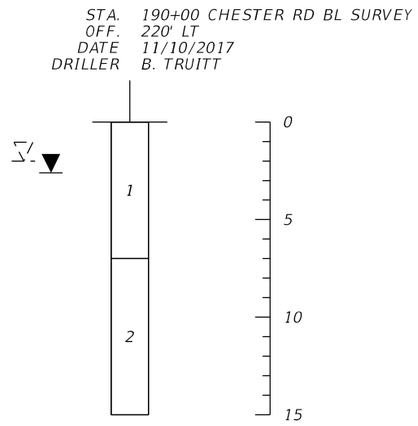
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
PAGES DAIRY CHESTER ROAD	NASSAU	N/A

ROADWAY SOIL PROFILES

SHEET NO. 76

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F





LEGEND

1	Fine SAND, fine SAND with Silt, fine SAND with Clay (A-3)
2	Fine SAND with Silt (A-2-4)
▼	Water Table Elevation
▽	Estimated Seasonal High Groundwater Level
GNE	Groundwater Level Not Encountered

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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P.E. LICENSE NUMBER 37389
UNIVERSAL ENGINEERING SCIENCES, INC.
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JACKSONVILLE, FLORIDA 32257
CERTIFICATE OF AUTHORIZATION 00000549

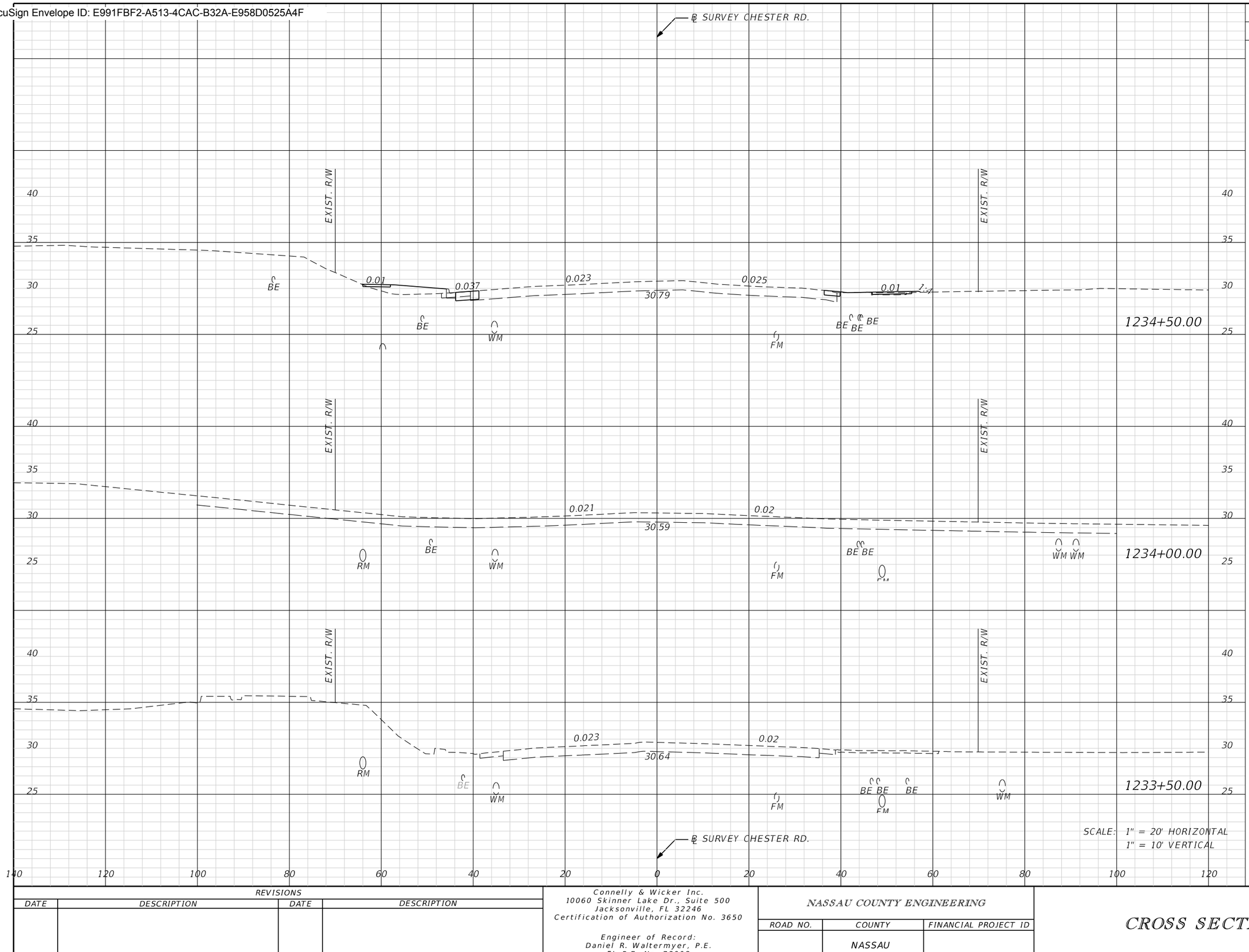
NASSAU COUNTY

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
PAGES DAIRY CHESTER ROAD	NASSAU	N/A

ROADWAY SOIL PROFILES

SHEET NO. 77

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

Regular Exc.		Embankment	
A	V	A	V
9	0	12	0
0	0	0	0
0	0	0	0

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

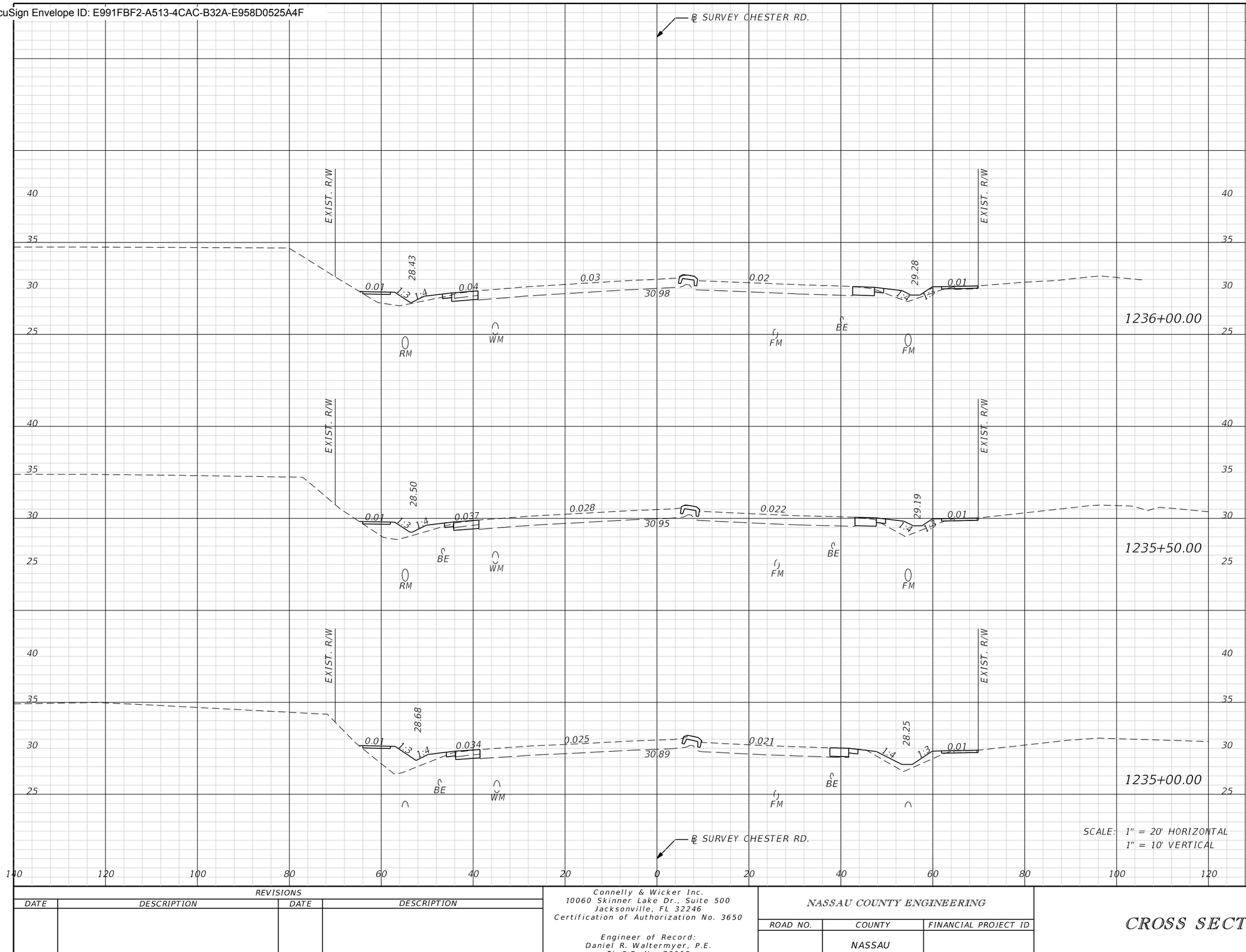
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

CROSS SECTIONS

SHEET NO. 78

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



Regular Exc.		Embankment	
A	V	A	V
11	20	19	41
11	20	26	55
11	19	35	42

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

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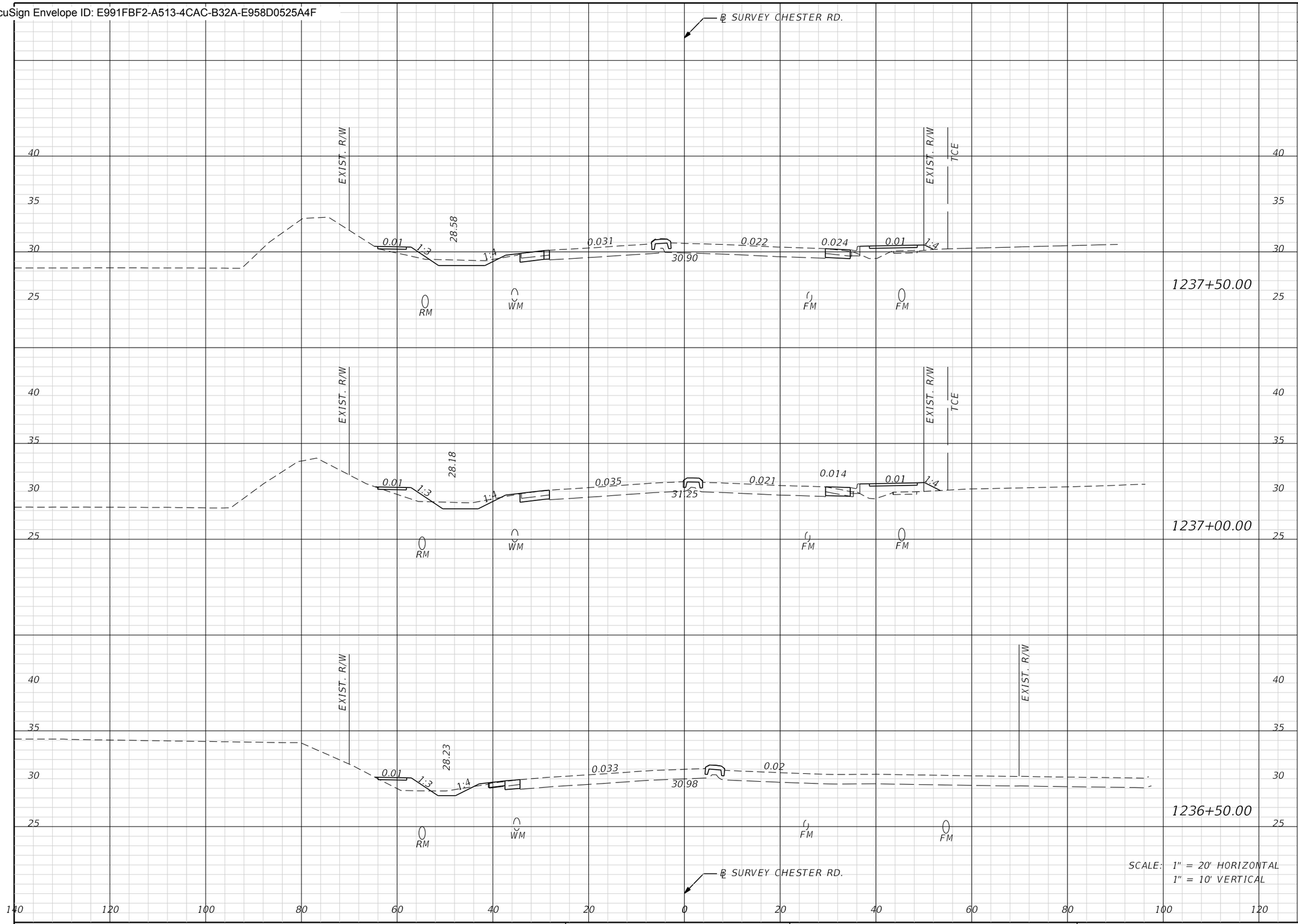
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

CROSS SECTIONS

SHEET NO. 79

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



Regular Exc.		Embankment	
A	V	A	V
17	32	14	33
17	23	21	27
8	17	8	25

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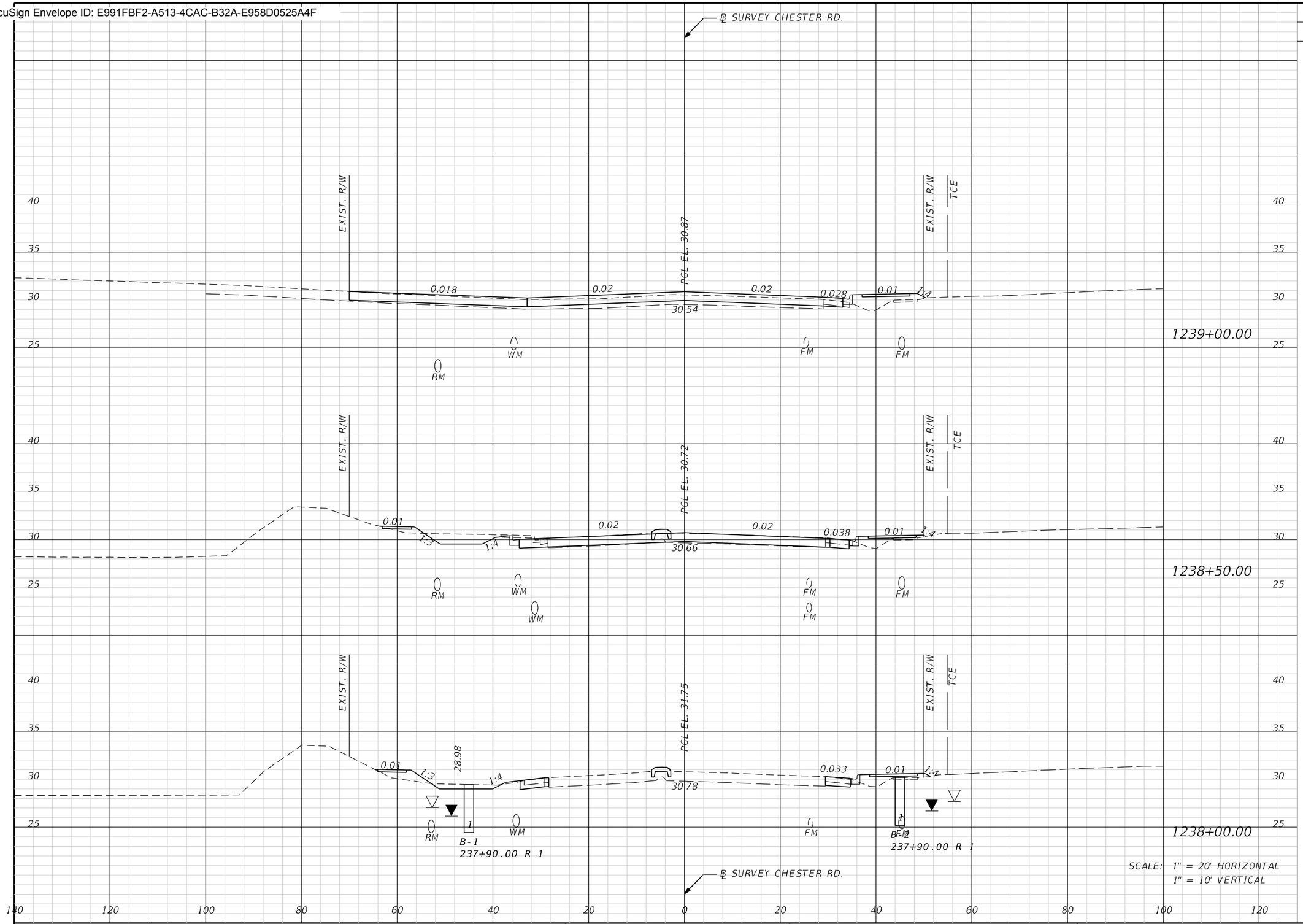
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

CROSS SECTIONS

SHEET NO. 80

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



Regular Exc.		Embankment	
A	V	A	V
73	144	12	19
83	92	8	20
17	31	14	26

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

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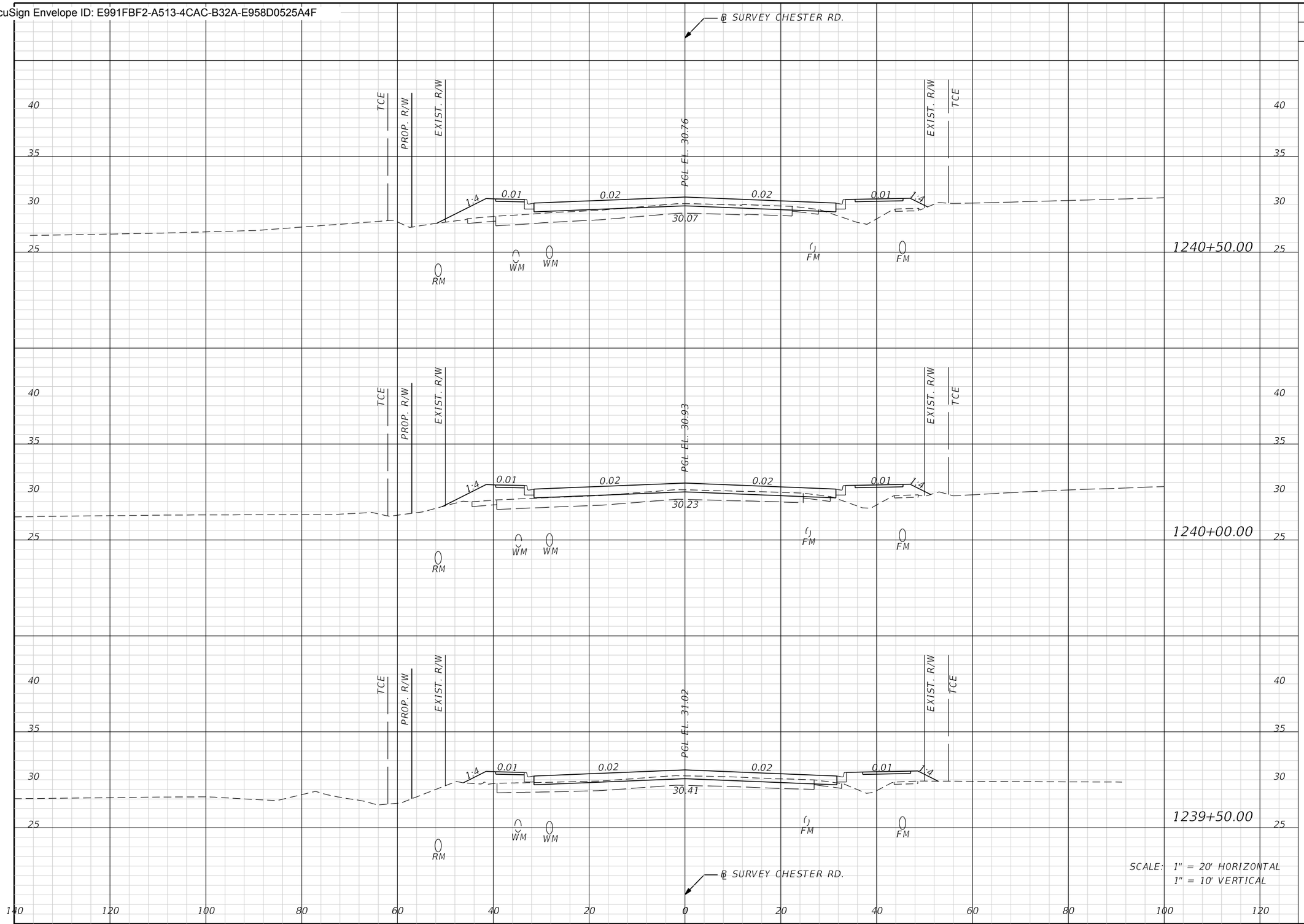
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

CROSS SECTIONS

SHEET NO. 81

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



Regular Exc.		Embankment	
A	V	A	V
11	20	52	88
11	27	43	72
18	84	34	43

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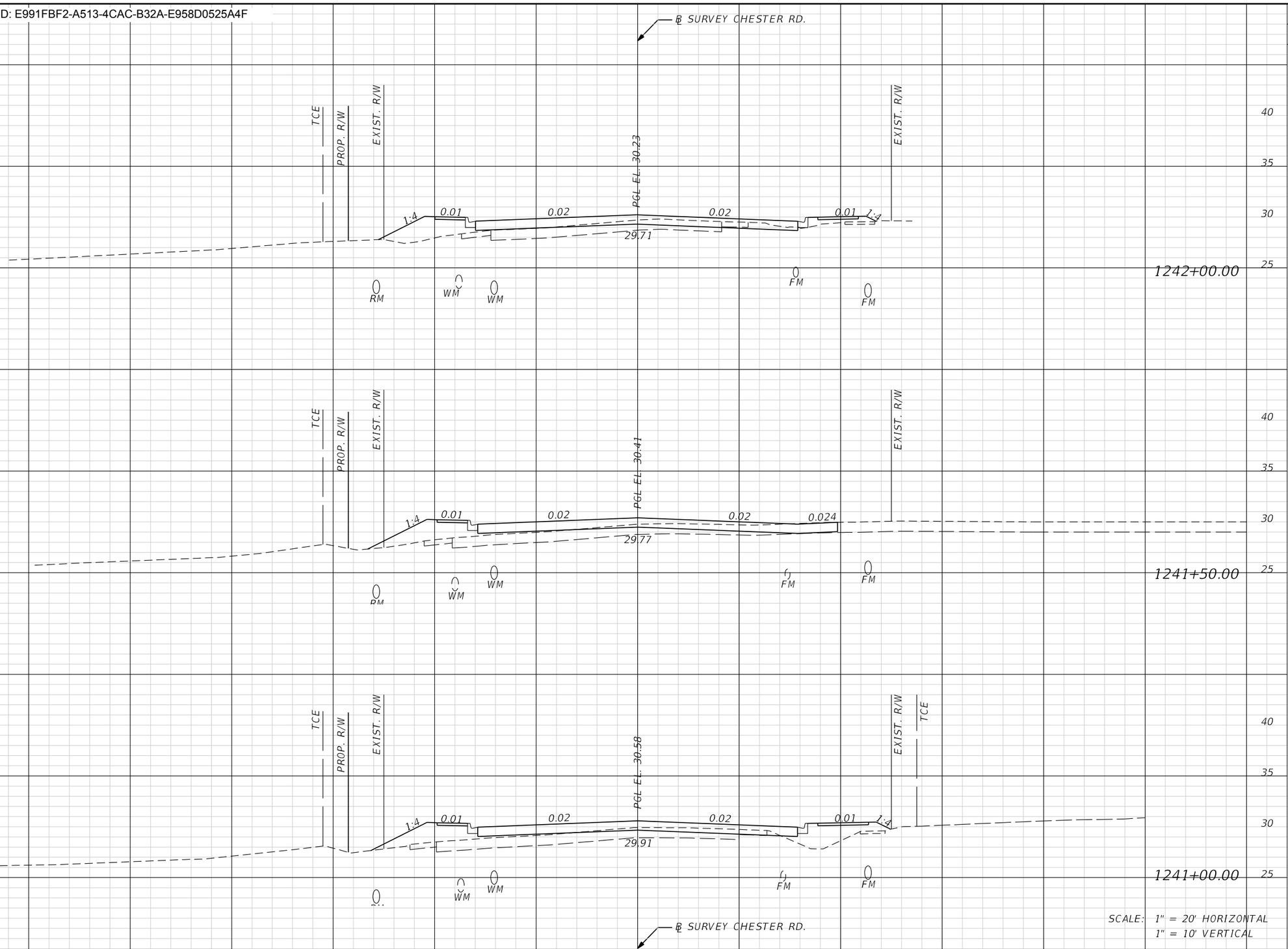
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

CROSS SECTIONS

SHEET NO. 82

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



Regular Exc.		Embankment	
A	V	A	V
20	45	33	58
28	38	30	76
13	22	53	97

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

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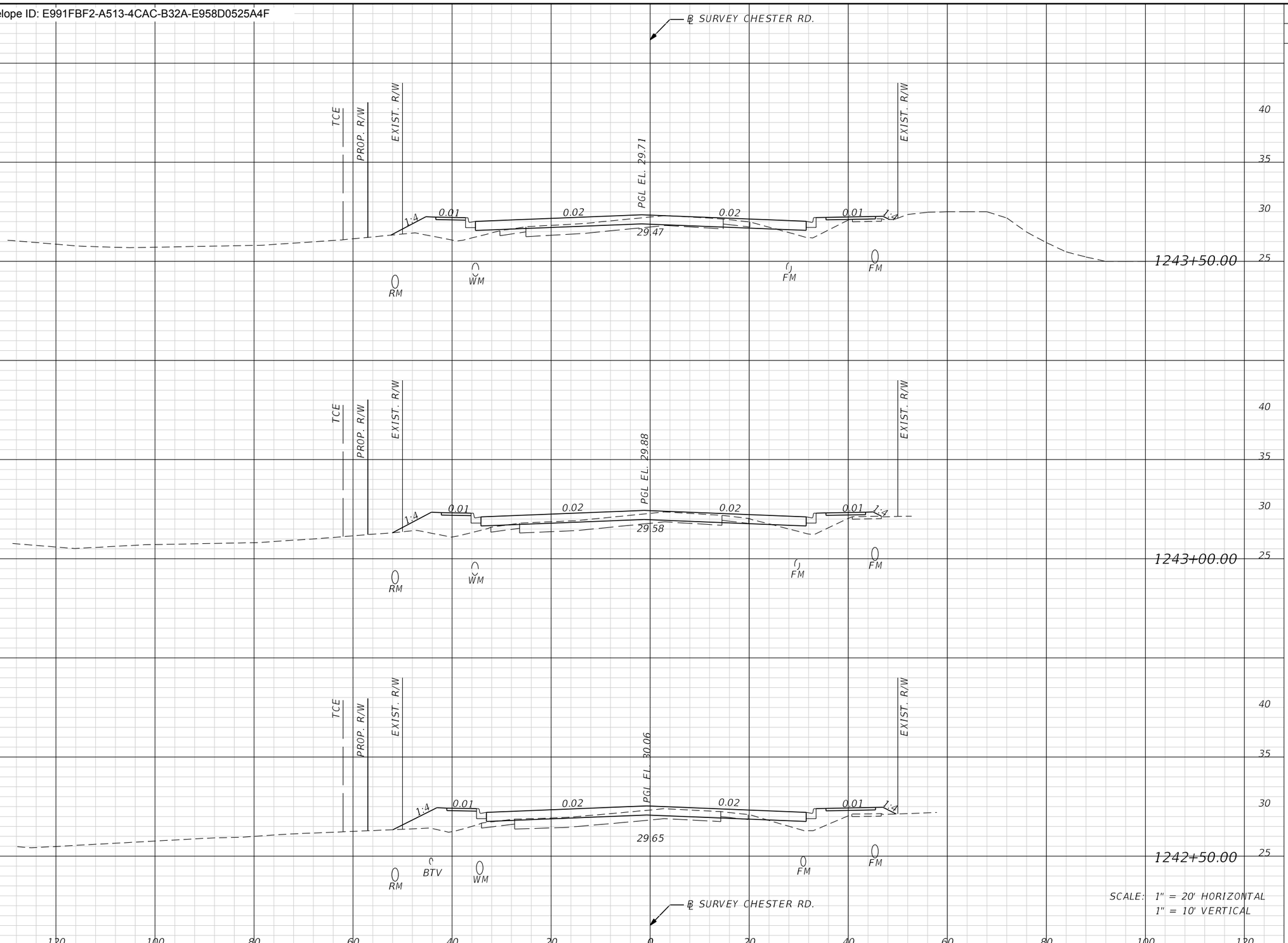
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

CROSS SECTIONS

SHEET NO. 83

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



	Regular Exc.		Embankment	
	A	V	A	V
1243+50.00	27	47	36	71
1243+00.00	23	39	41	79
1242+50.00	19	37	45	72

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FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

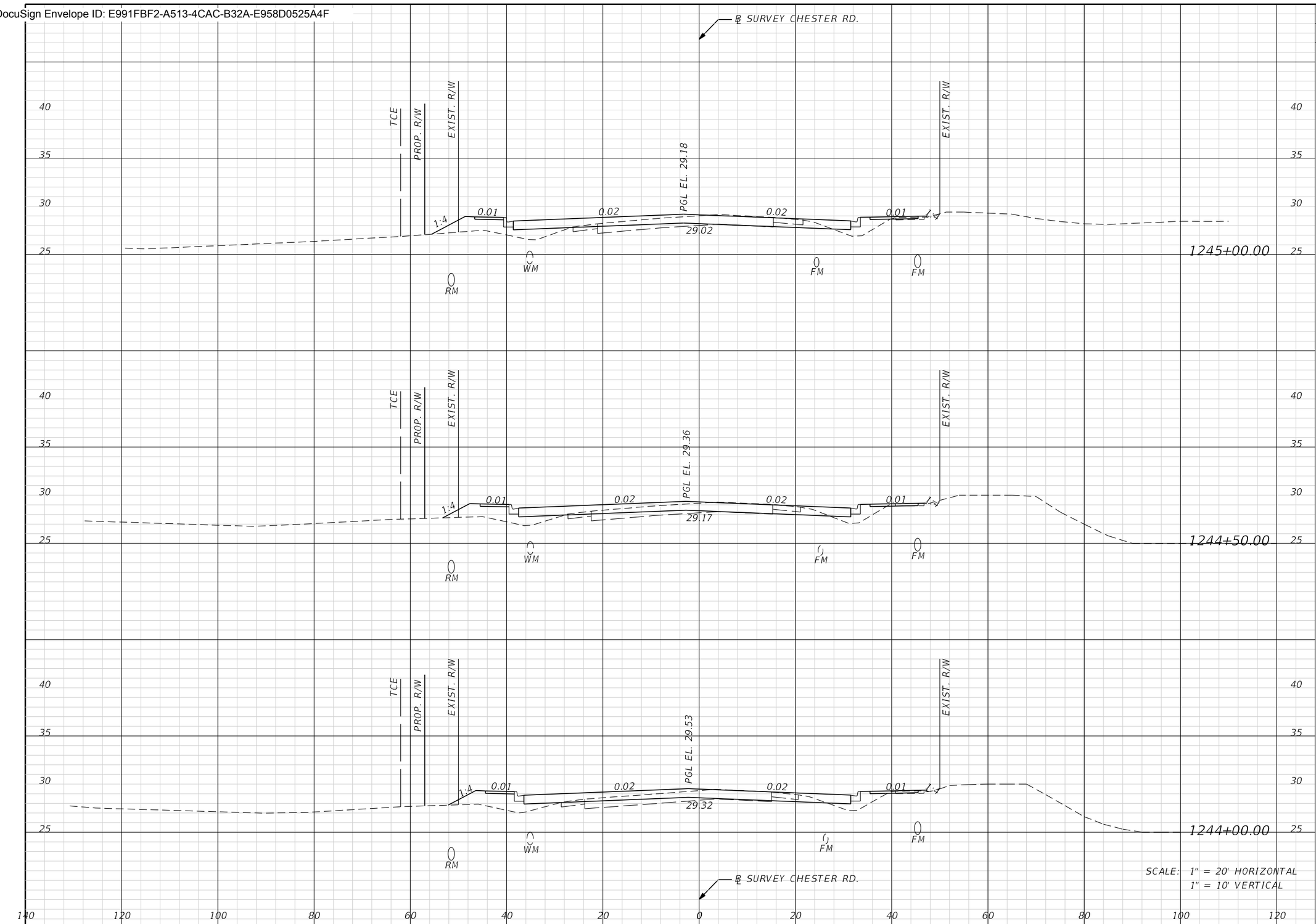
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

CROSS SECTIONS

SHEET NO. 84

Danny 12/14/2023 8:16:46 AM J:\Transportation\Projects\17-01-0202_ChesterInt\roadway\RDXSRD01.DGN

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



Regular Exc.		Embankment	
A	V	A	V
36	68	36	61
37	65	31	57
34	56	31	62

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

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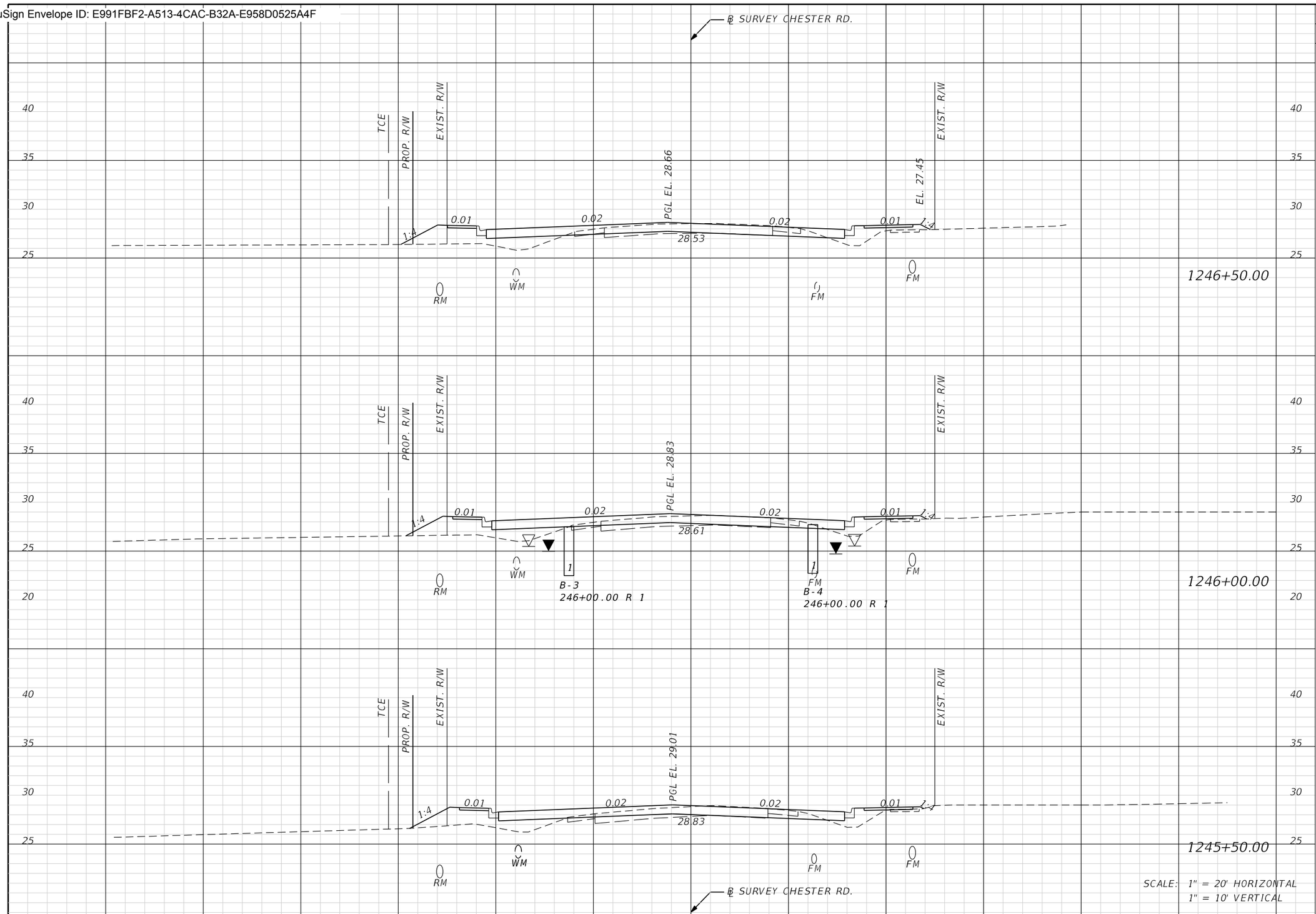
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

CROSS SECTIONS

SHEET NO. 85

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



Regular Exc.		Embankment	
A	V	A	V
41	69	50	90
34	64	48	84
35	66	44	73

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

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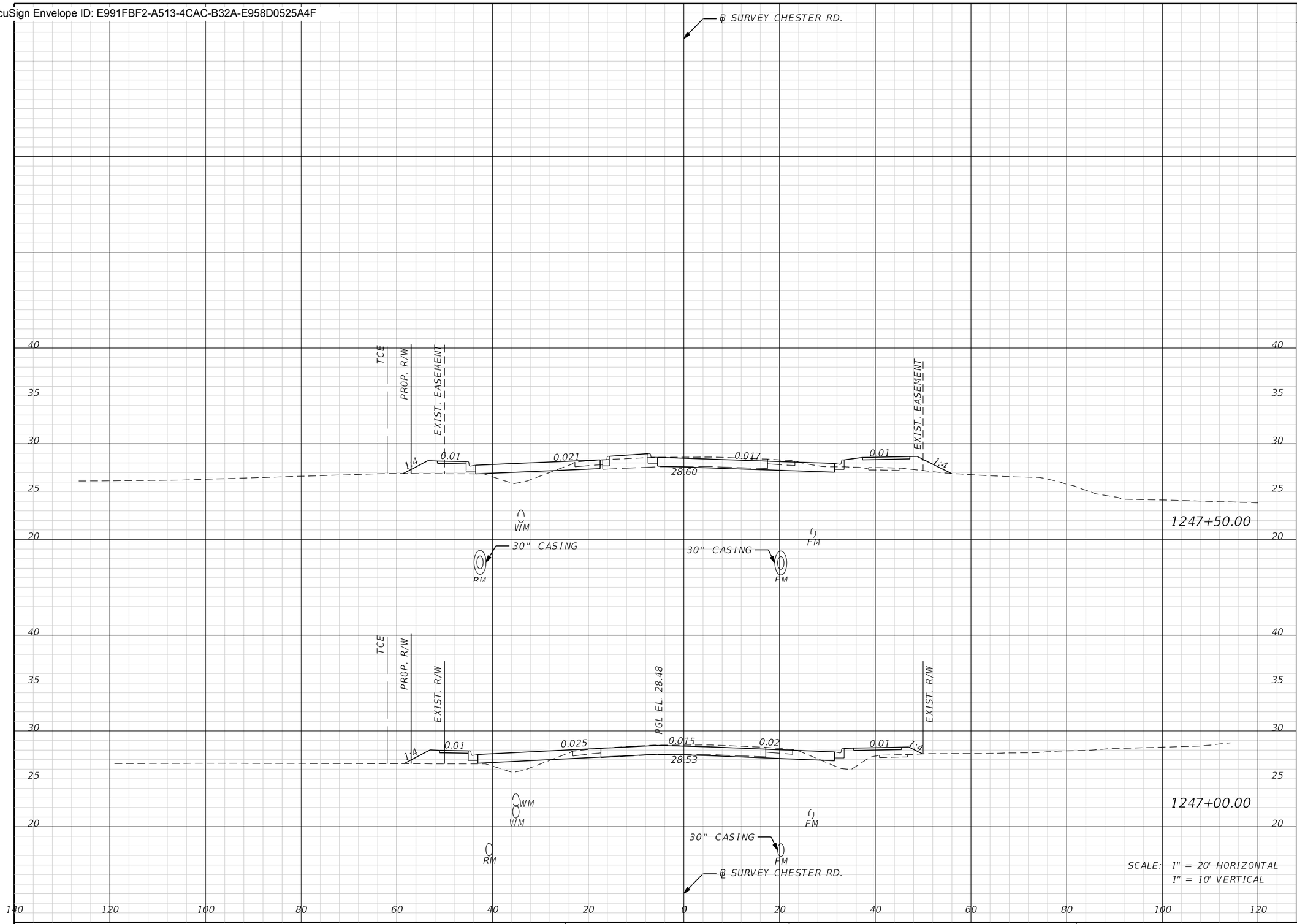
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

CROSS SECTIONS

SHEET NO. 86

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



Regular Exc.		Embankment	
A	V	A	V
46	90	45	80
52	85	41	84

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

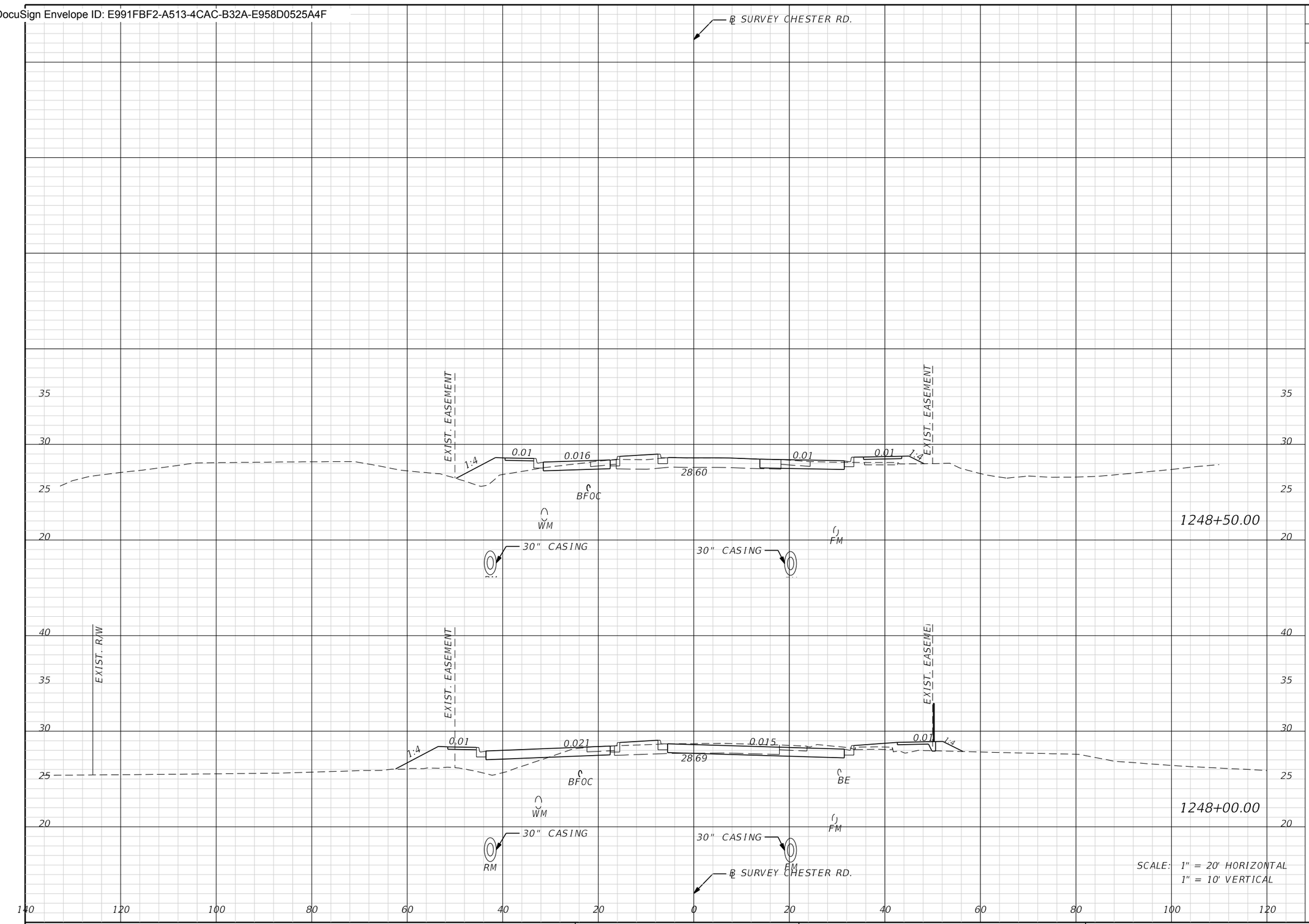
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

CROSS SECTIONS

SHEET NO. 87

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



Regular Exc.		Embankment	
A	V	A	V
27	75	34	84
54	93	57	95

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REVISIONS			
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Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

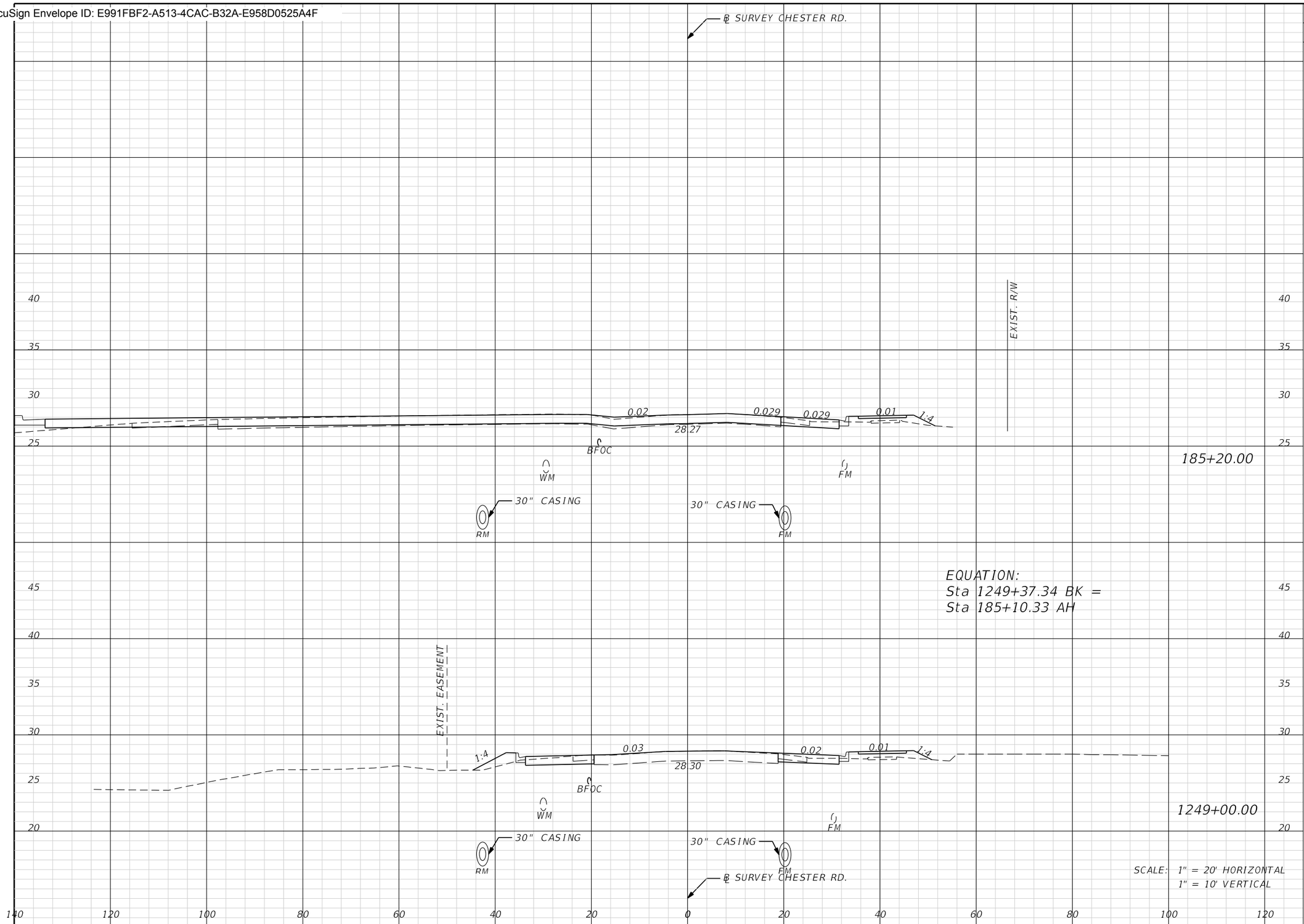
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

CROSS SECTIONS

SHEET NO. 88

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



Regular Exc.		Embankment	
A	V	A	V
124	125	102	103
20	43	16	46

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

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Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

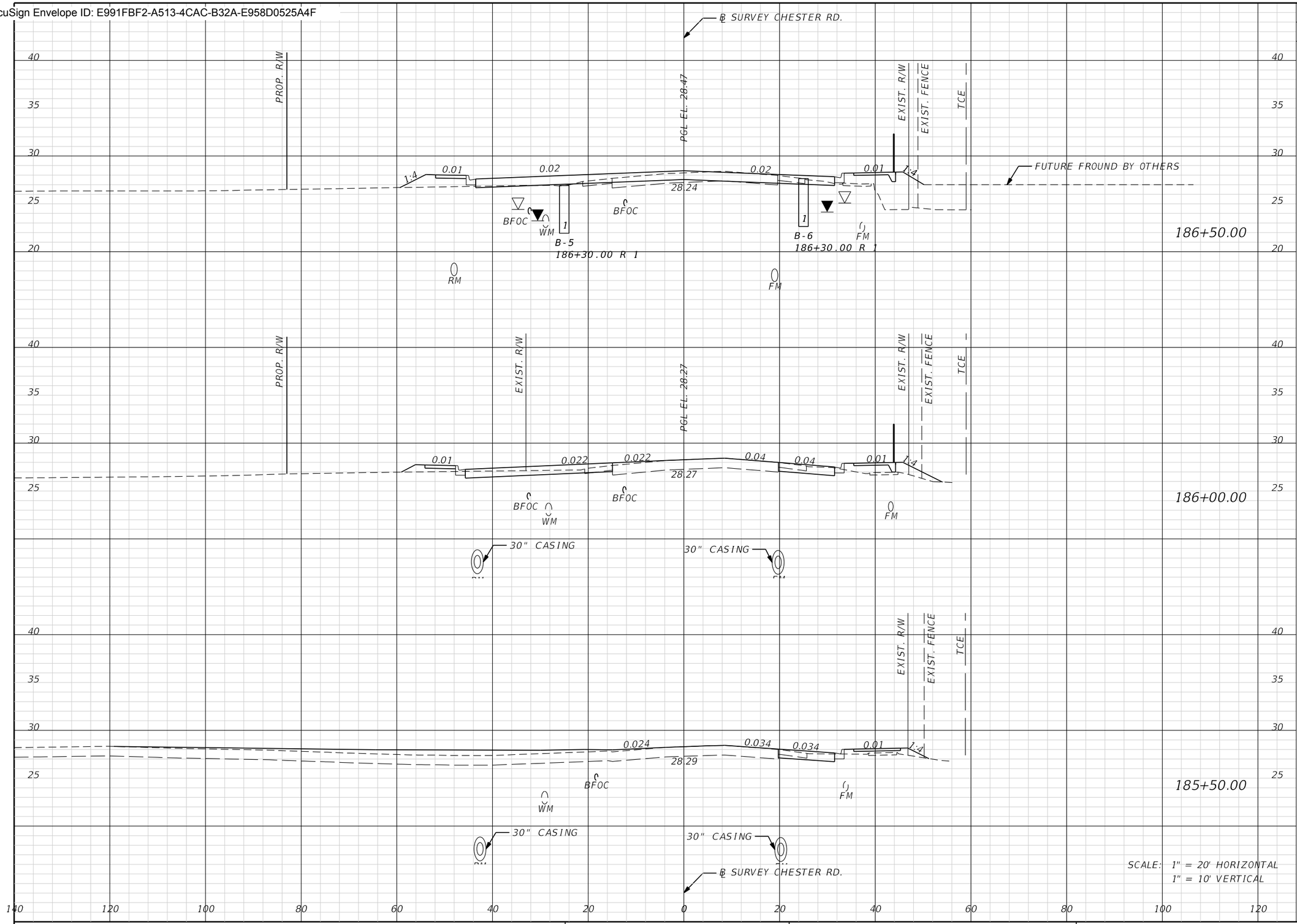
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

CROSS SECTIONS

SHEET NO. 89

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



Regular Exc.		Embankment	
A	V	A	V
36	58	13	31
27	34	21	56
10	74	39	79

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REVISIONS			
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Engineer of Record:
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FL P.E. No. 73903

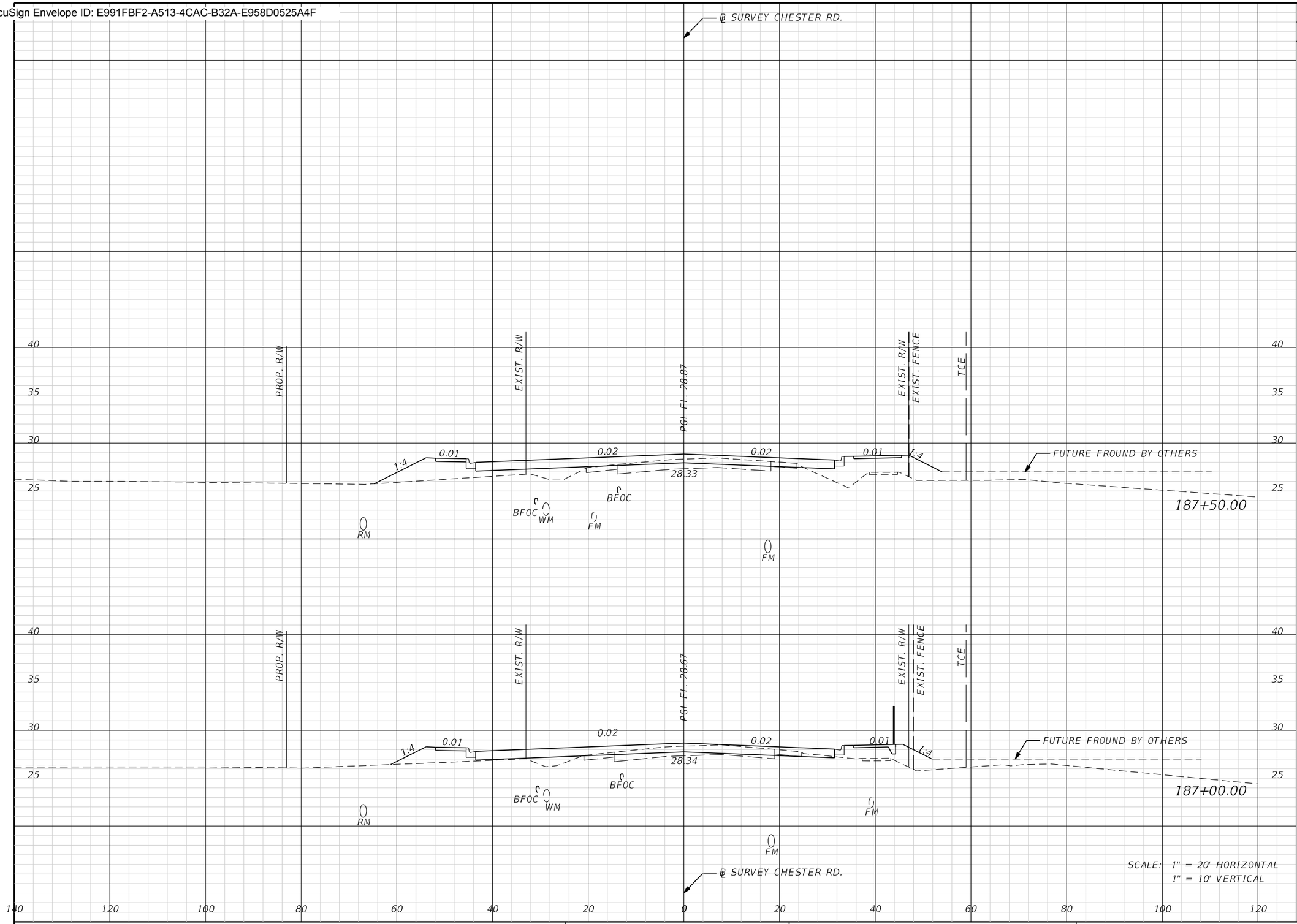
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

CROSS SECTIONS

SHEET NO. 90

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



Regular Exc.		Embankment	
A	V	A	V
17	40	48	69
27	58	26	36

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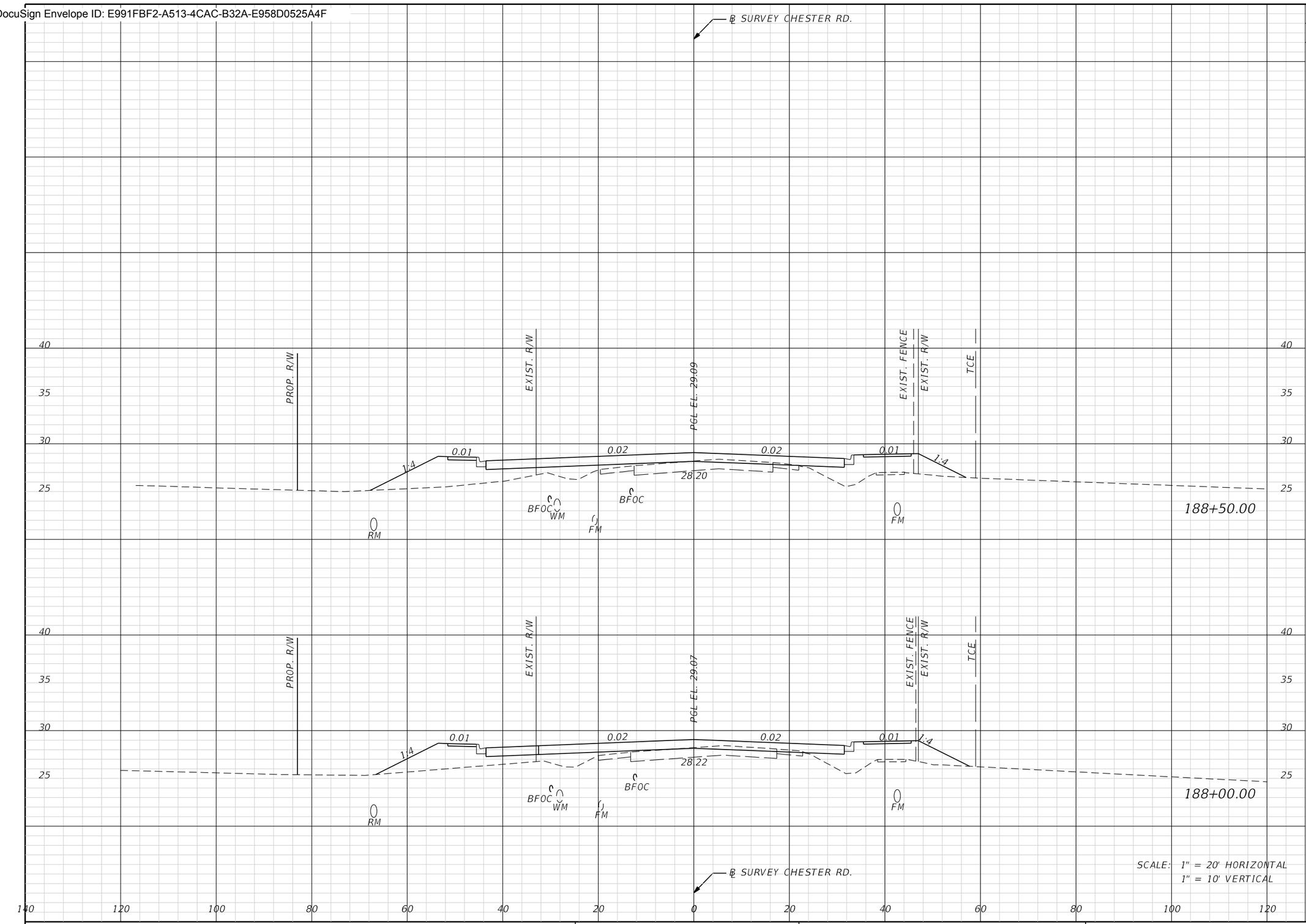
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

CROSS SECTIONS

SHEET NO. 91

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



Regular Exc.		Embankment	
A	V	A	V
4	10	127	225
7	22	116	152

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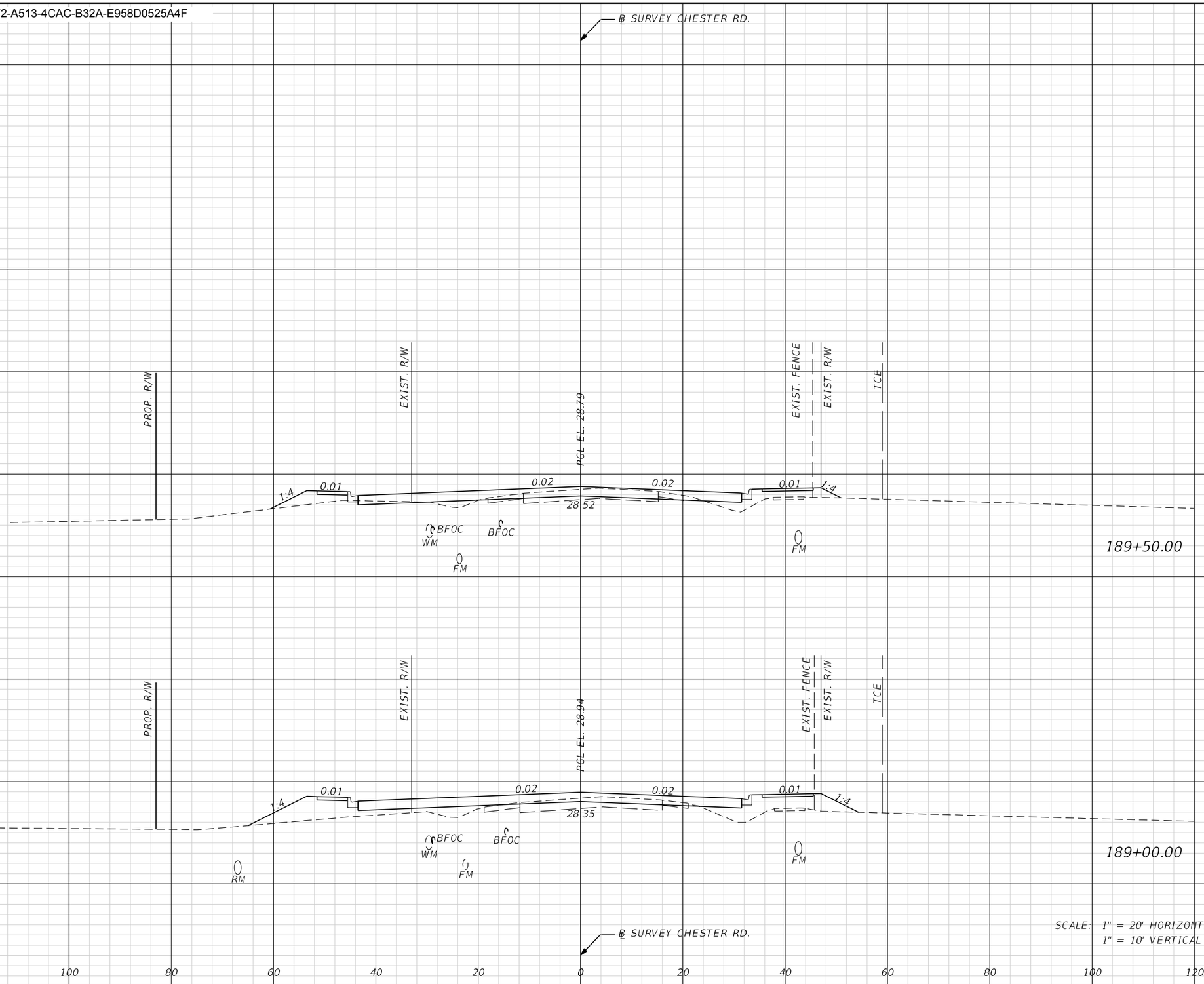
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

CROSS SECTIONS

SHEET NO. 92

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



Regular Exc.		Embankment	
A	V	A	V
28	38	33	105
13	16	80	192

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

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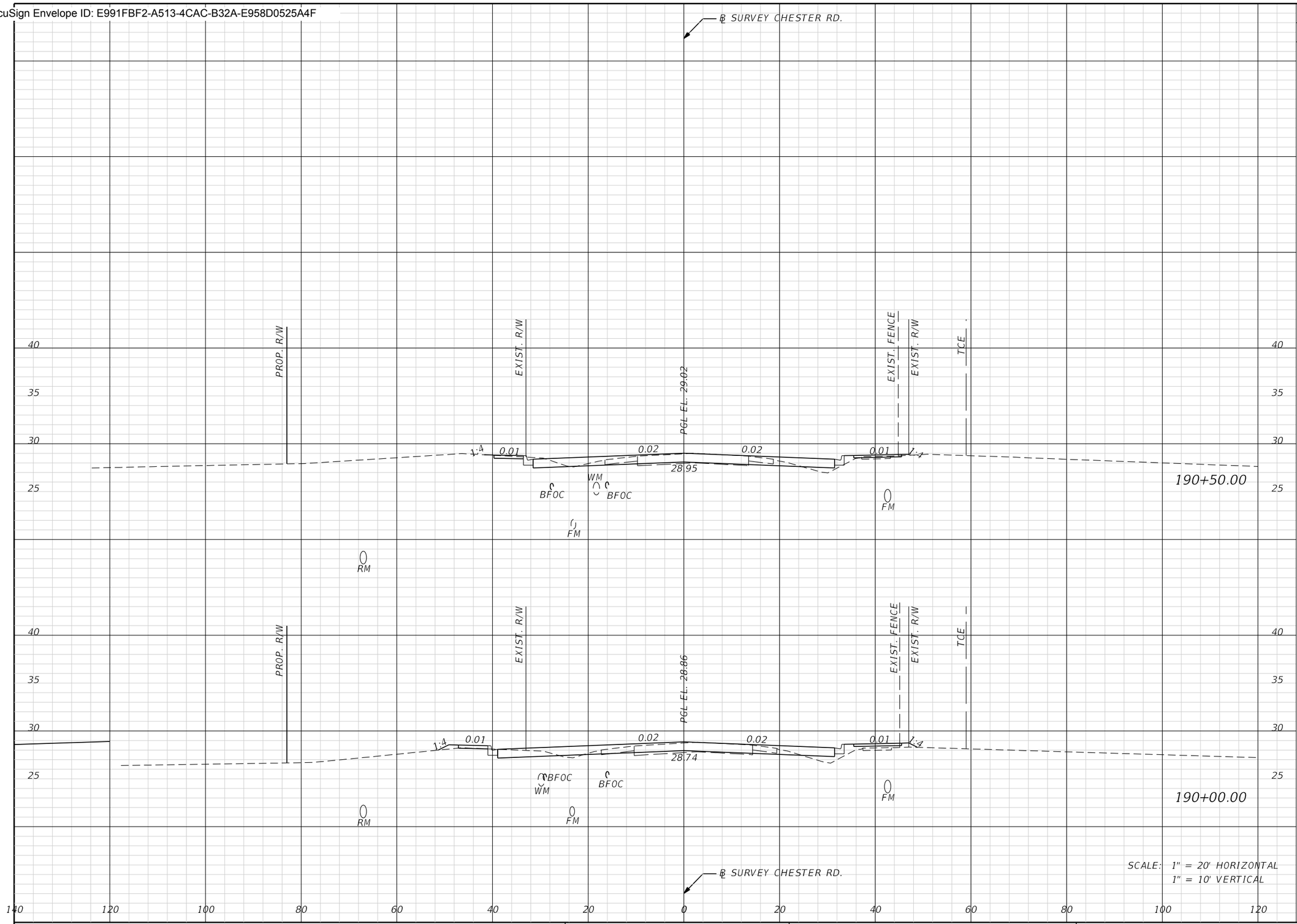
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

CROSS SECTIONS

SHEET NO. 93

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



Regular Exc.		Embankment	
A	V	A	V
41	75	4	14
40	62	11	41

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

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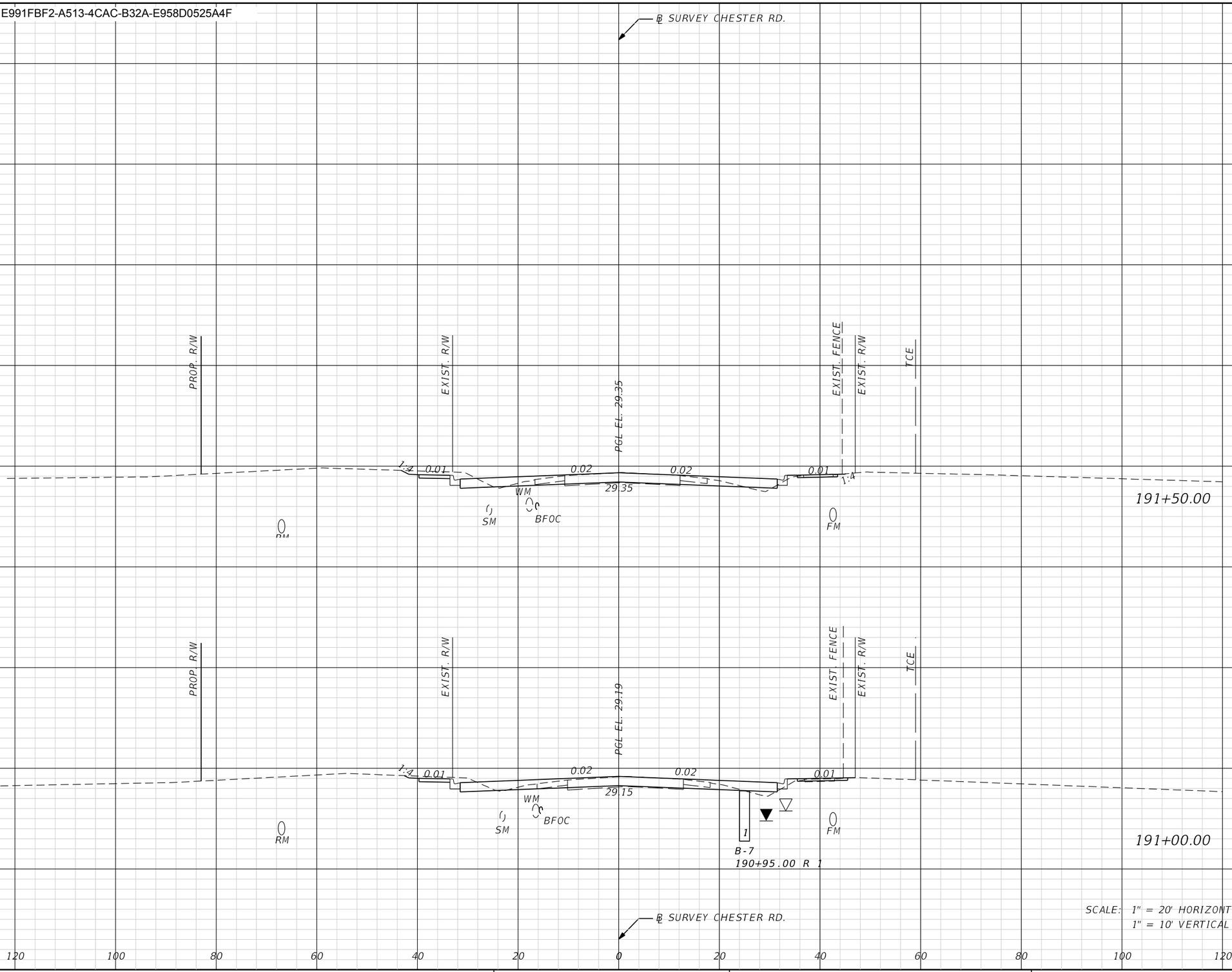
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

CROSS SECTIONS

SHEET NO. 94

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



Regular Exc.		Embankment	
A	V	A	V
50	89	2	4
46	81	3	6

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REVISIONS			
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10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

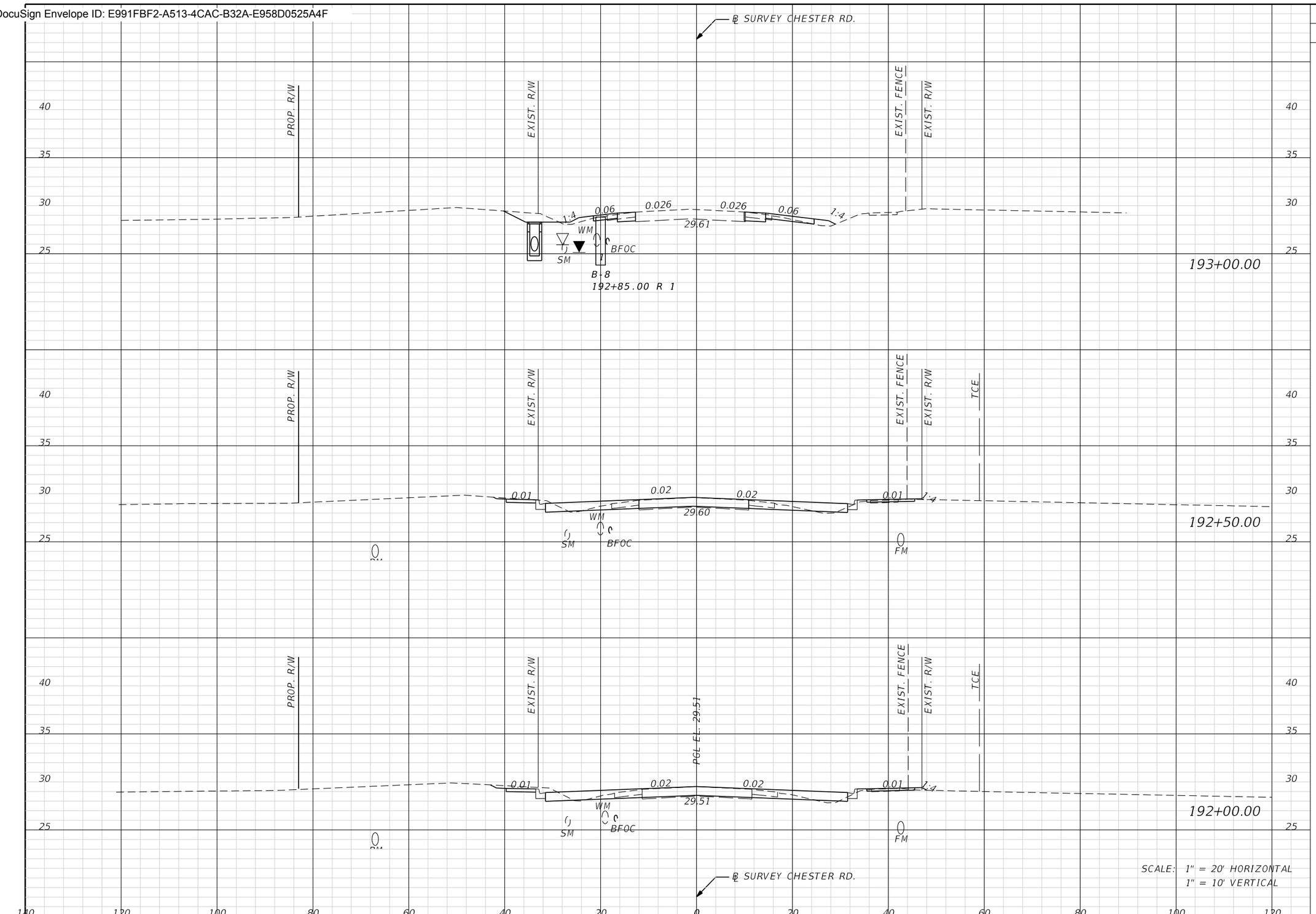
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

CROSS SECTIONS

SHEET NO. 95

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



Regular Exc.		Embankment	
A	V	A	V
18	57	4	5
44	84	1	3
47	90	2	3

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REVISIONS			
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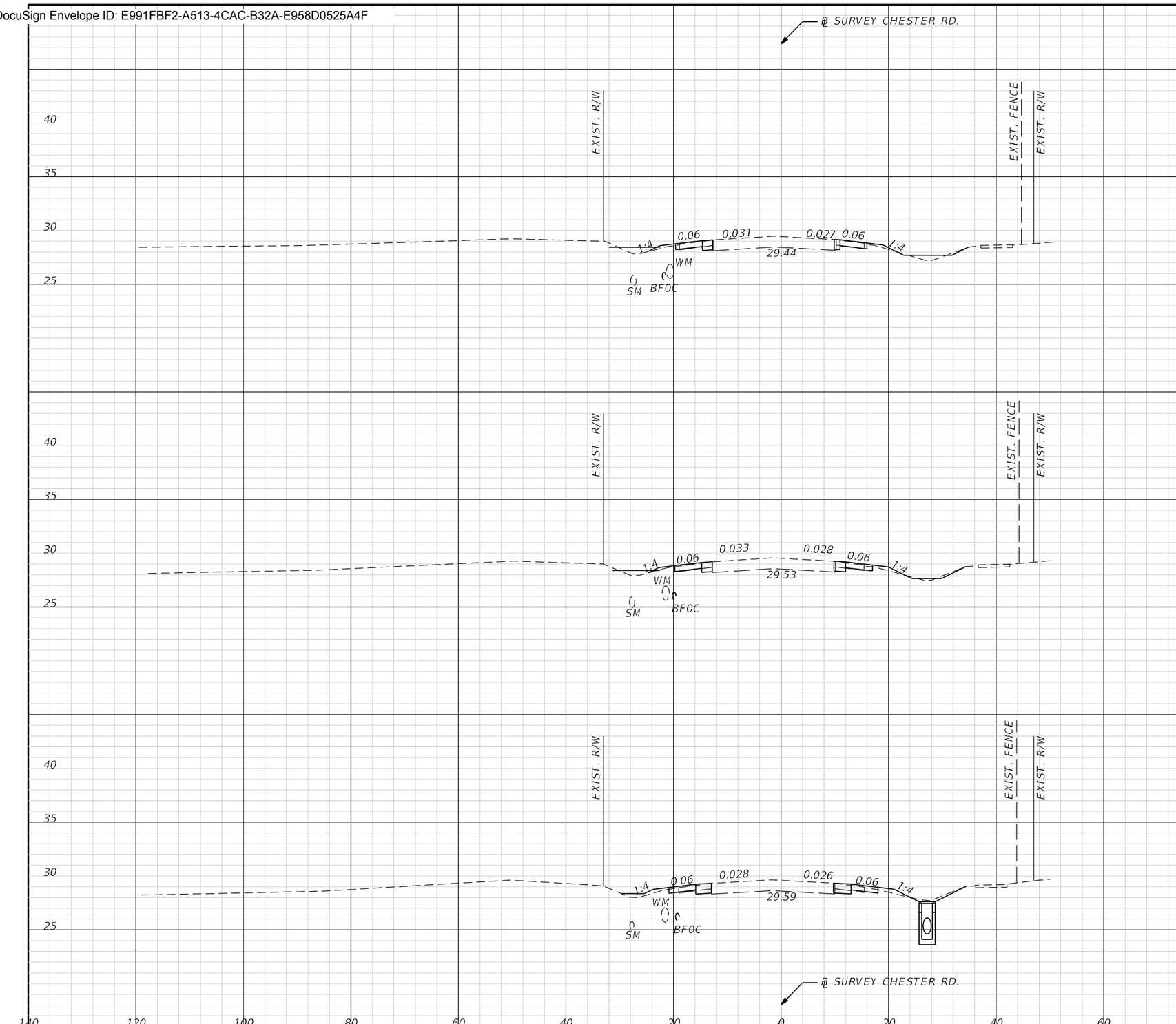
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

CROSS SECTIONS

SHEET NO. 96

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



Regular Exc.		Embankment	
A	V	A	V
8	15	4	7
9	18	4	7
11	26	4	8

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

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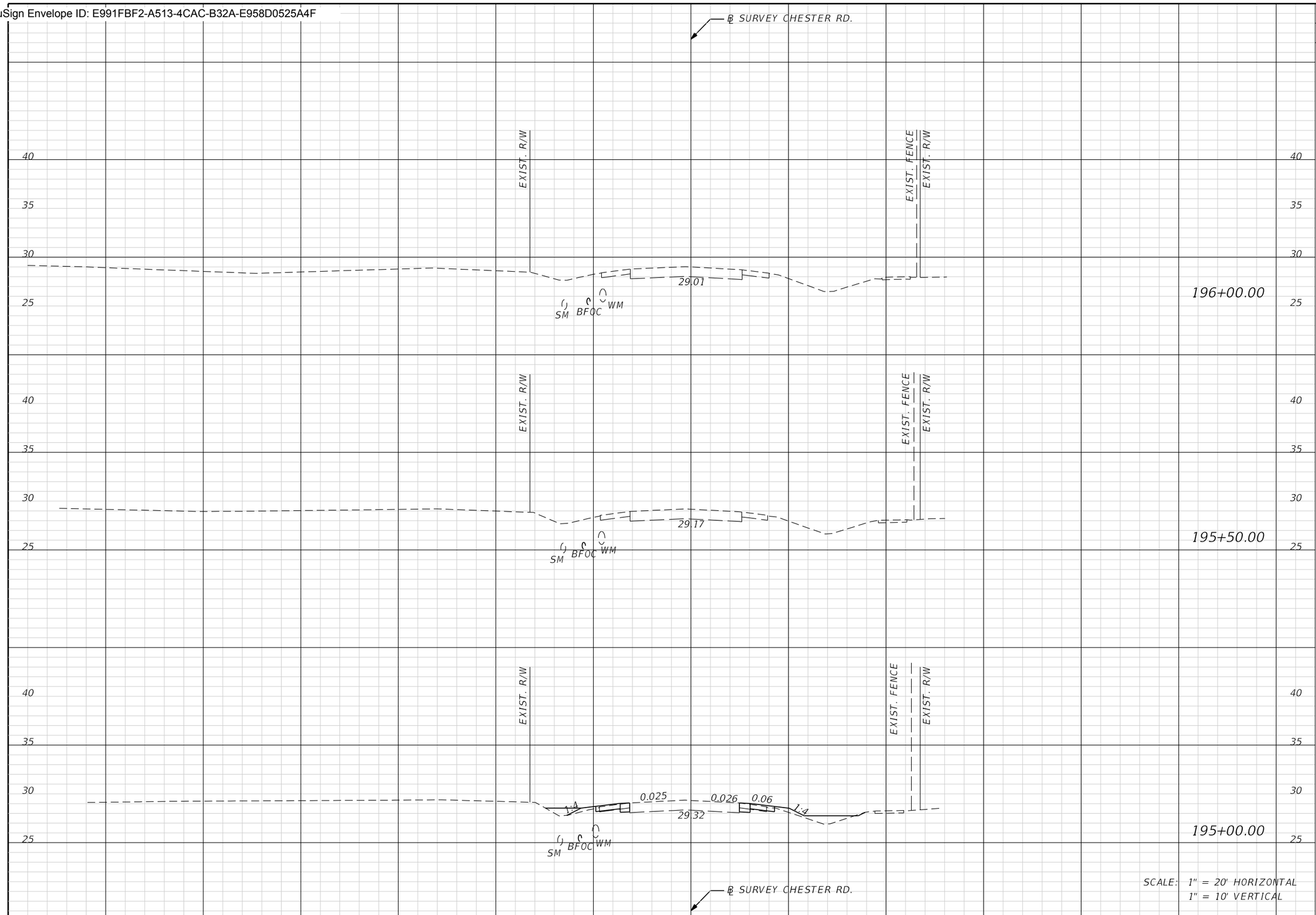
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

CROSS SECTIONS

SHEET NO. 97

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



Regular Exc.		Embankment	
A	V	A	V
0	0	0	0
0	0	0	0
8	15	9	11

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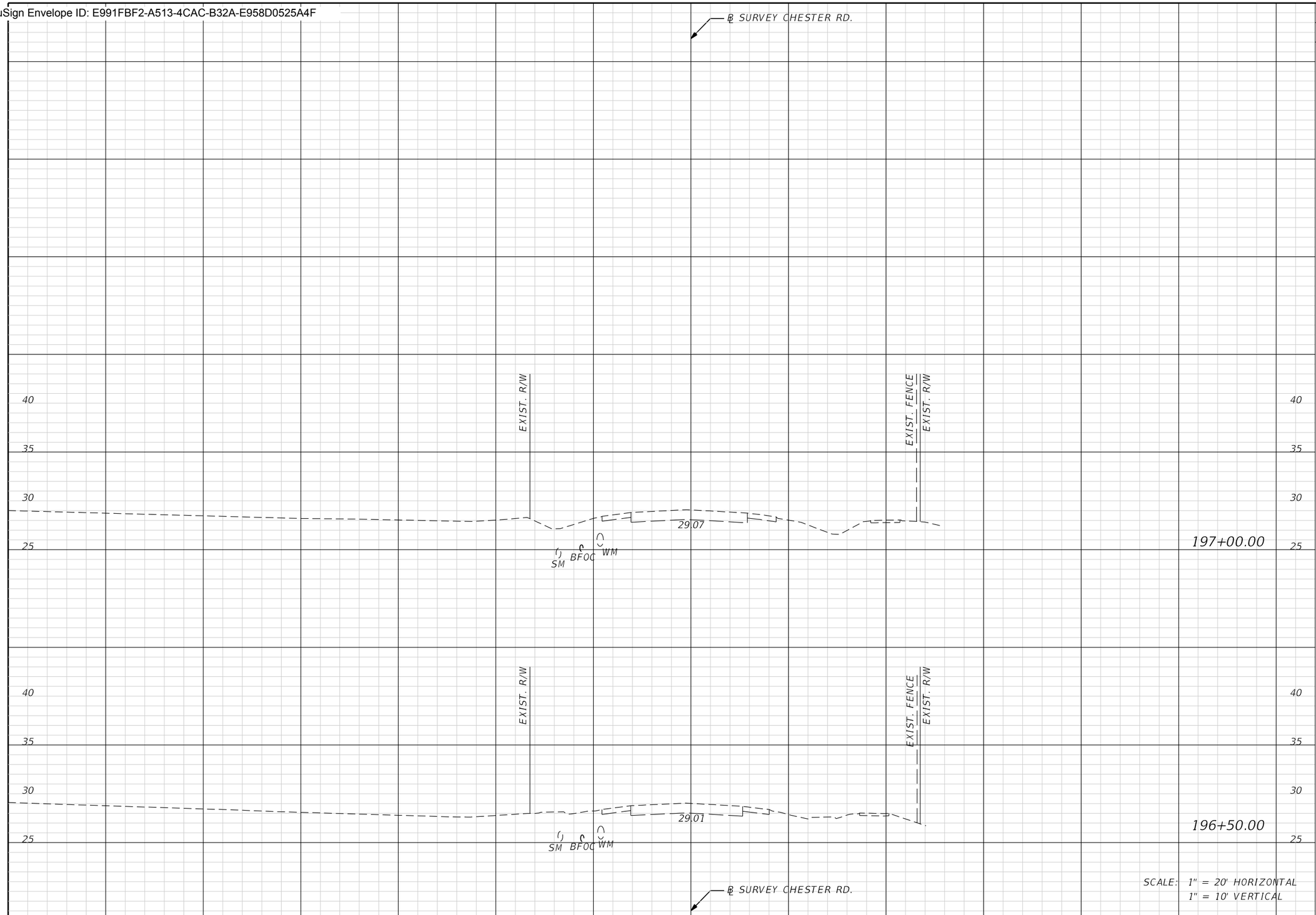
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

CROSS SECTIONS

SHEET NO. 98

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



Regular Exc.		Embankment	
A	V	A	V
TOTAL :	2577	TOTAL :	2917
0	0	0	0
0	0	0	0

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

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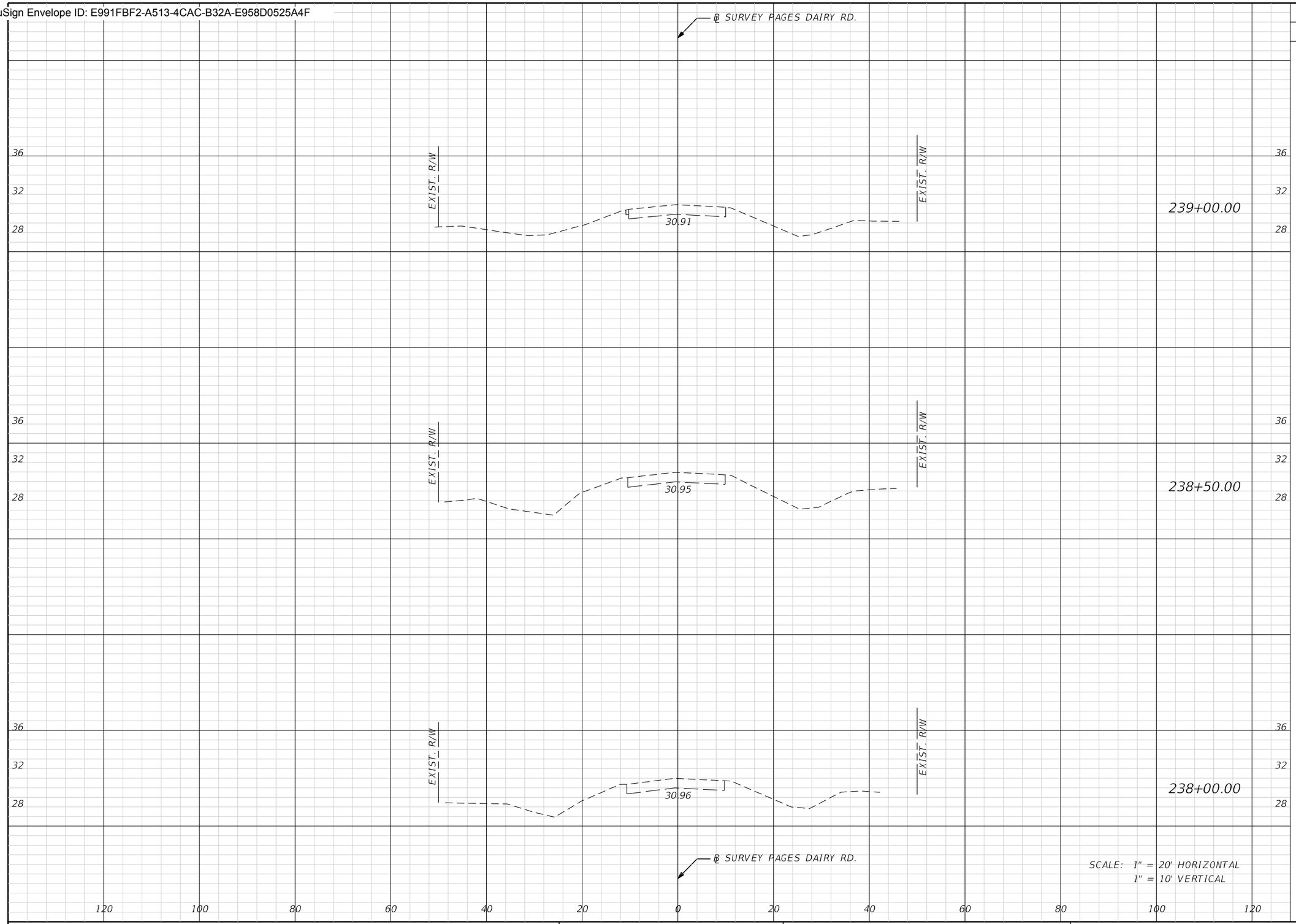
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

CROSS SECTIONS

SHEET NO. 99

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

Regular Exc.		Embankment	
A	V	A	V
0	0	0	0
0	0	0	0
0	0	0	0

REVISIONS			
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NASSAU COUNTY ENGINEERING

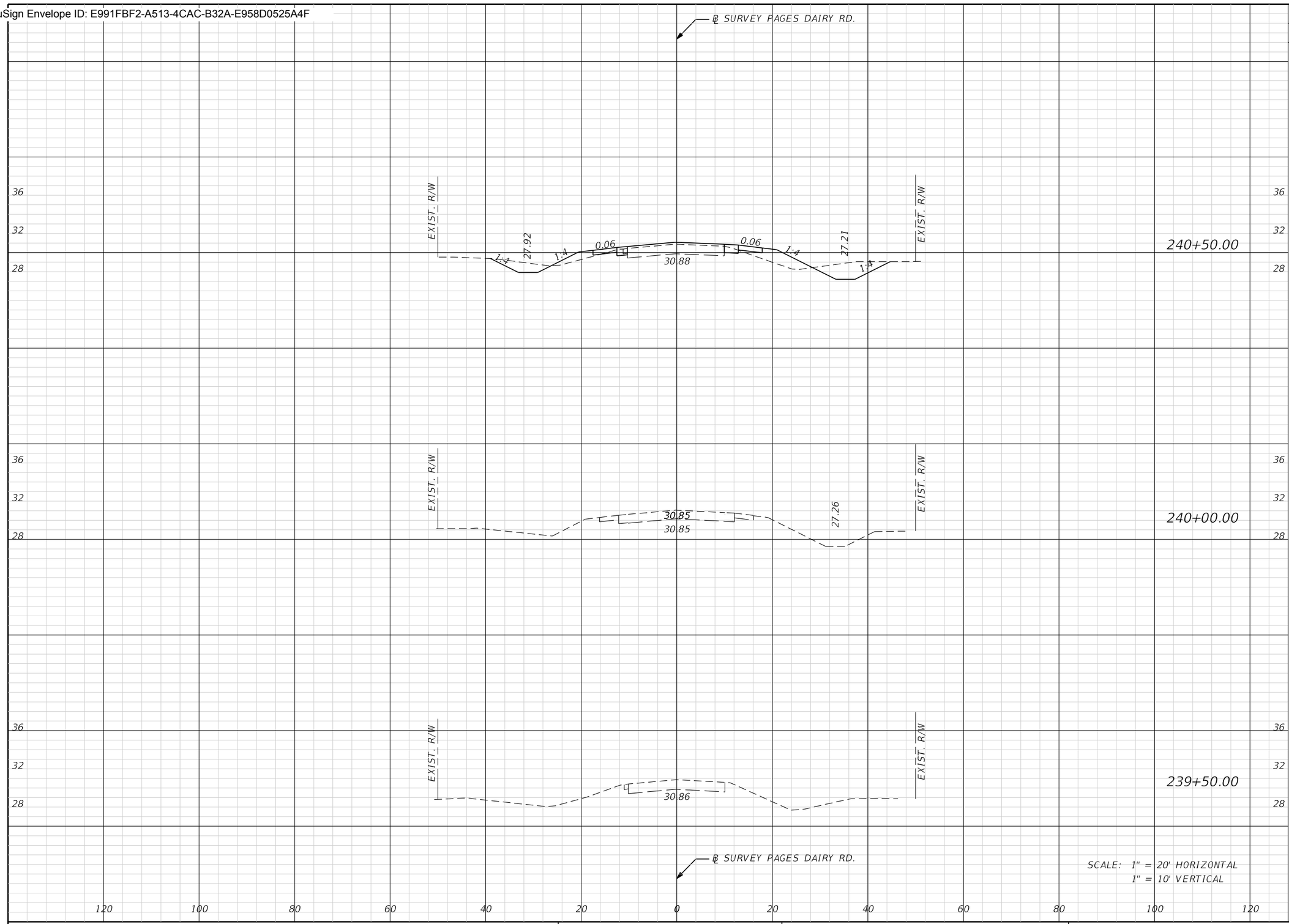
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

CROSS SECTIONS

SHEET NO. 100

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Regular Exc.		Embankment	
A	V	A	V
29	0	18	0
0	0	0	0
0	0	0	0
0	0	0	0

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

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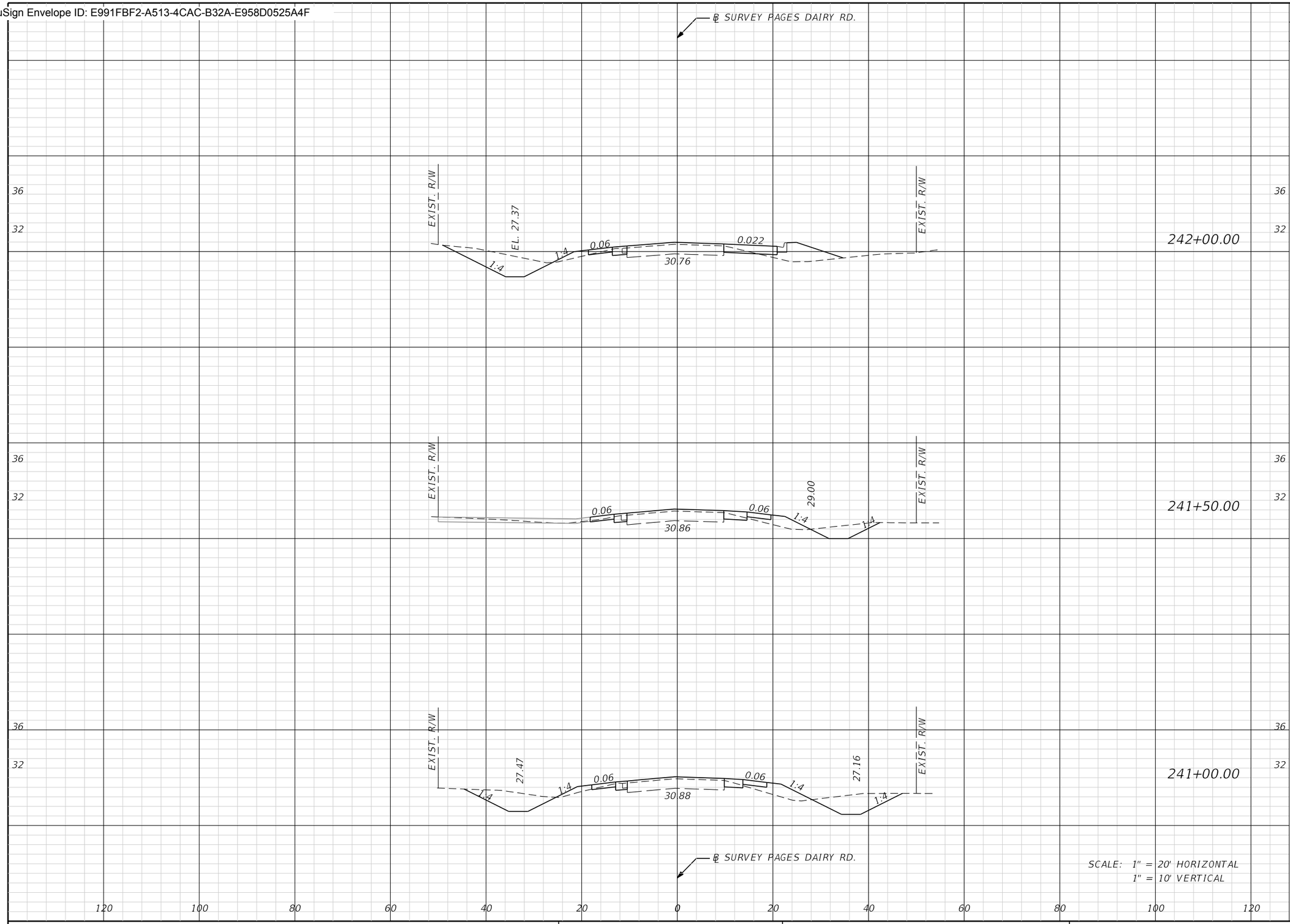
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

CROSS SECTIONS

SHEET NO. 101

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



Regular Exc.		Embankment	
A	V	A	V
35	48	20	26
17	63	8	21
51	74	14	29

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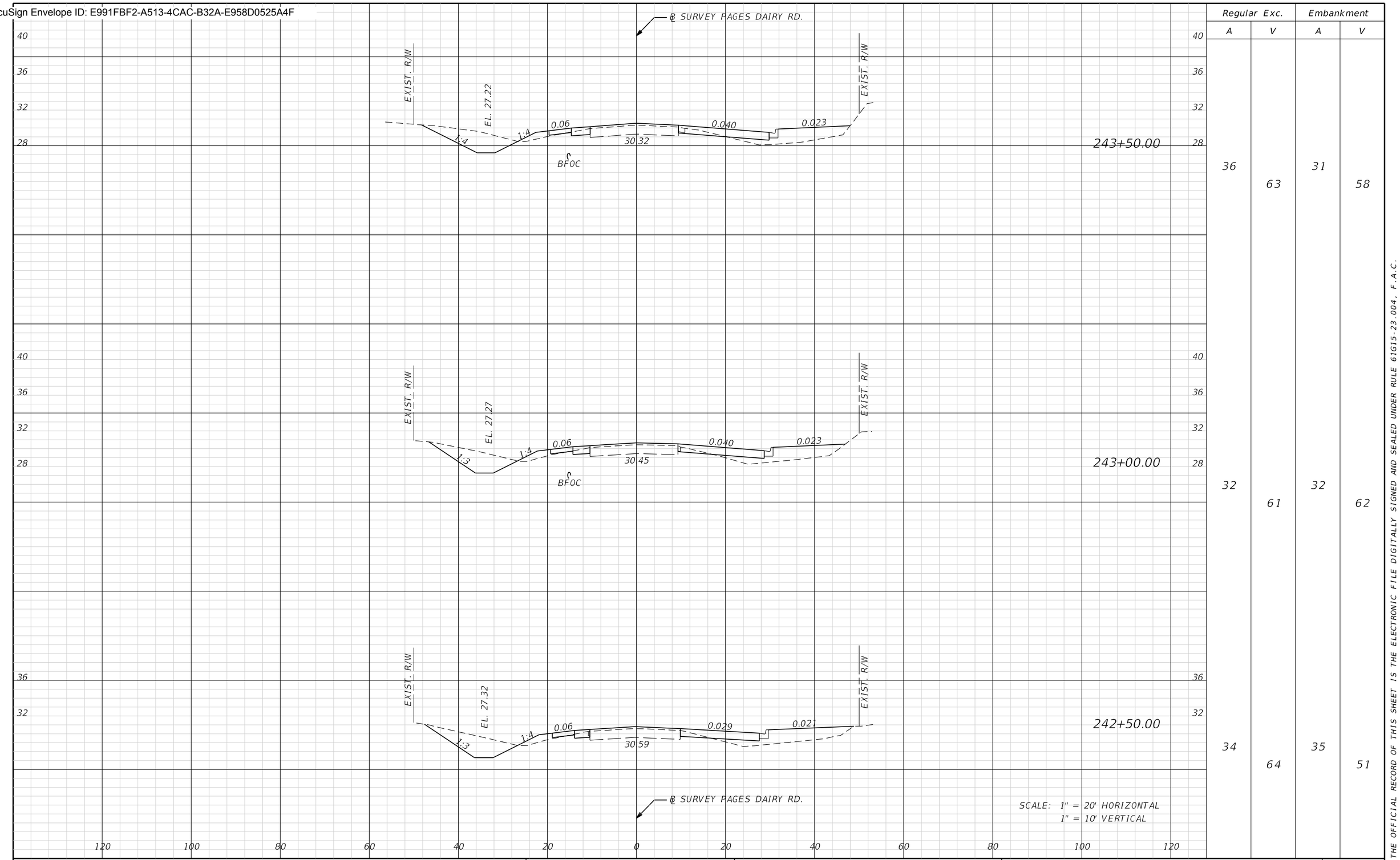
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

CROSS SECTIONS

SHEET NO. 102

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



	Regular Exc.		Embankment	
	A	V	A	V
243+50.00	36	63	31	58
243+00.00	32	61	32	62
242+50.00	34	64	35	51

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

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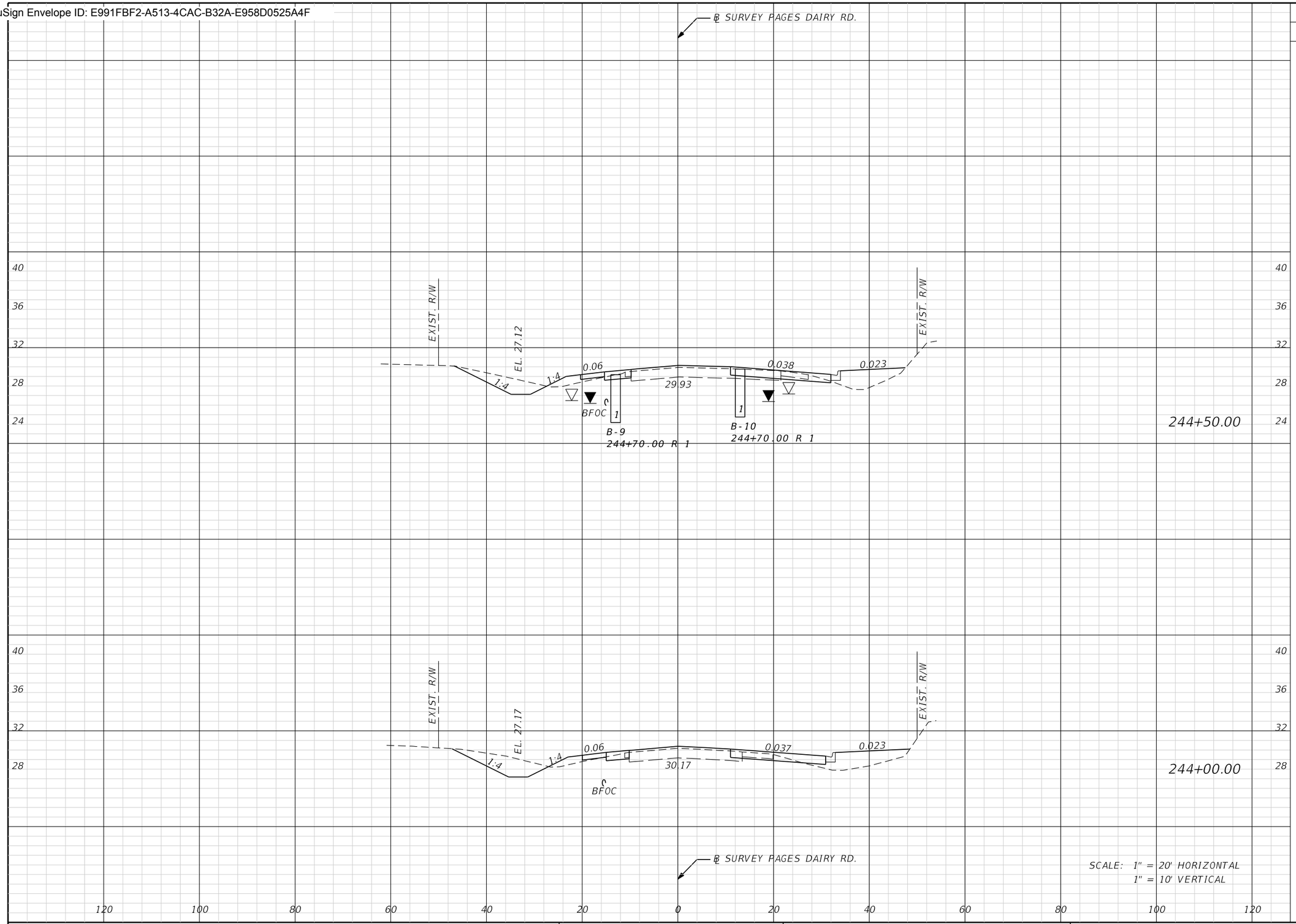
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

CROSS SECTIONS

SHEET NO. 103

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



Regular Exc.		Embankment	
A	V	A	V
35	65	26	51
35	65	29	55

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

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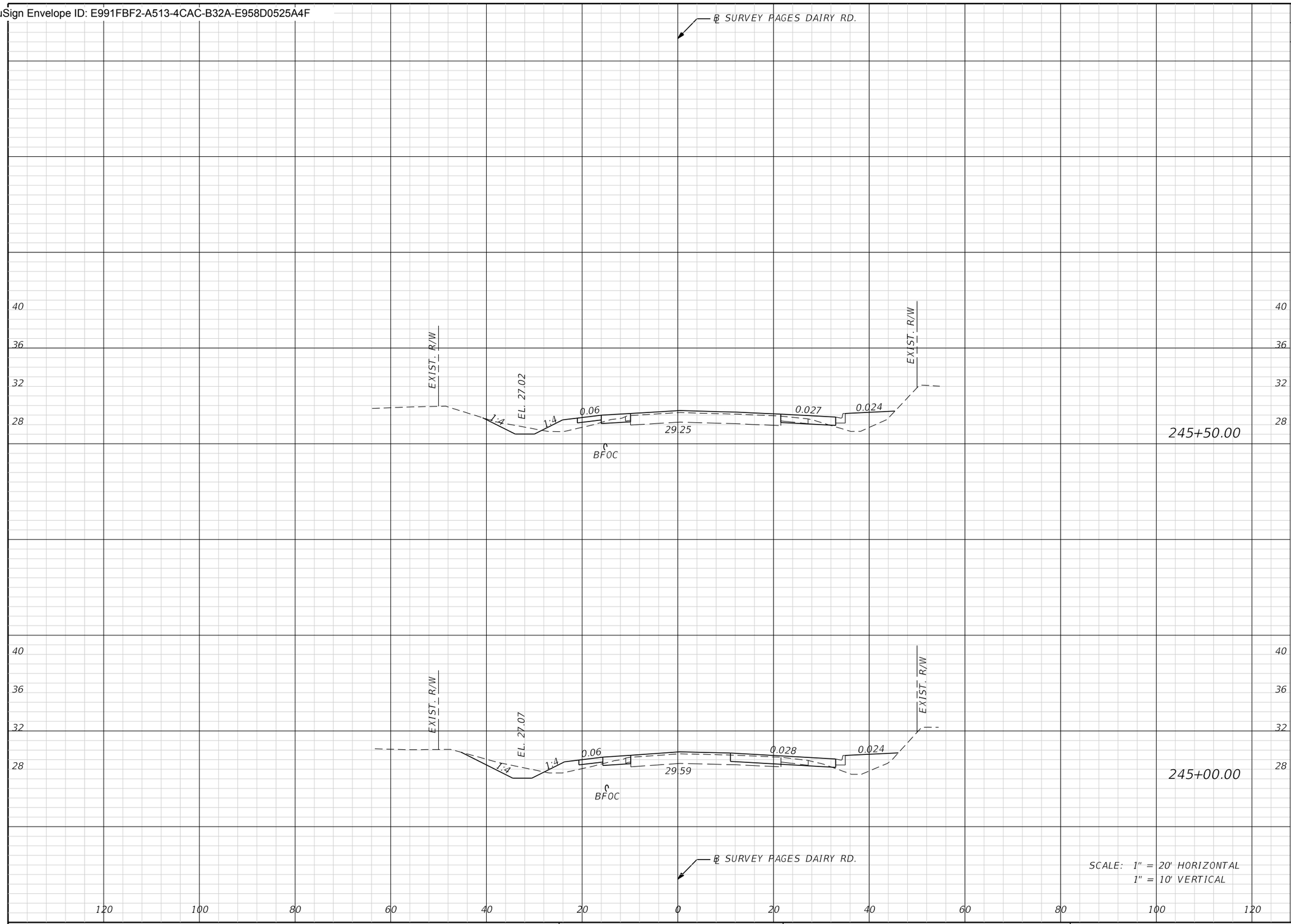
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

CROSS SECTIONS

SHEET NO. 104

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



Regular Exc.		Embankment	
A	V	A	V
13	38	24	45
28	58	25	47

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

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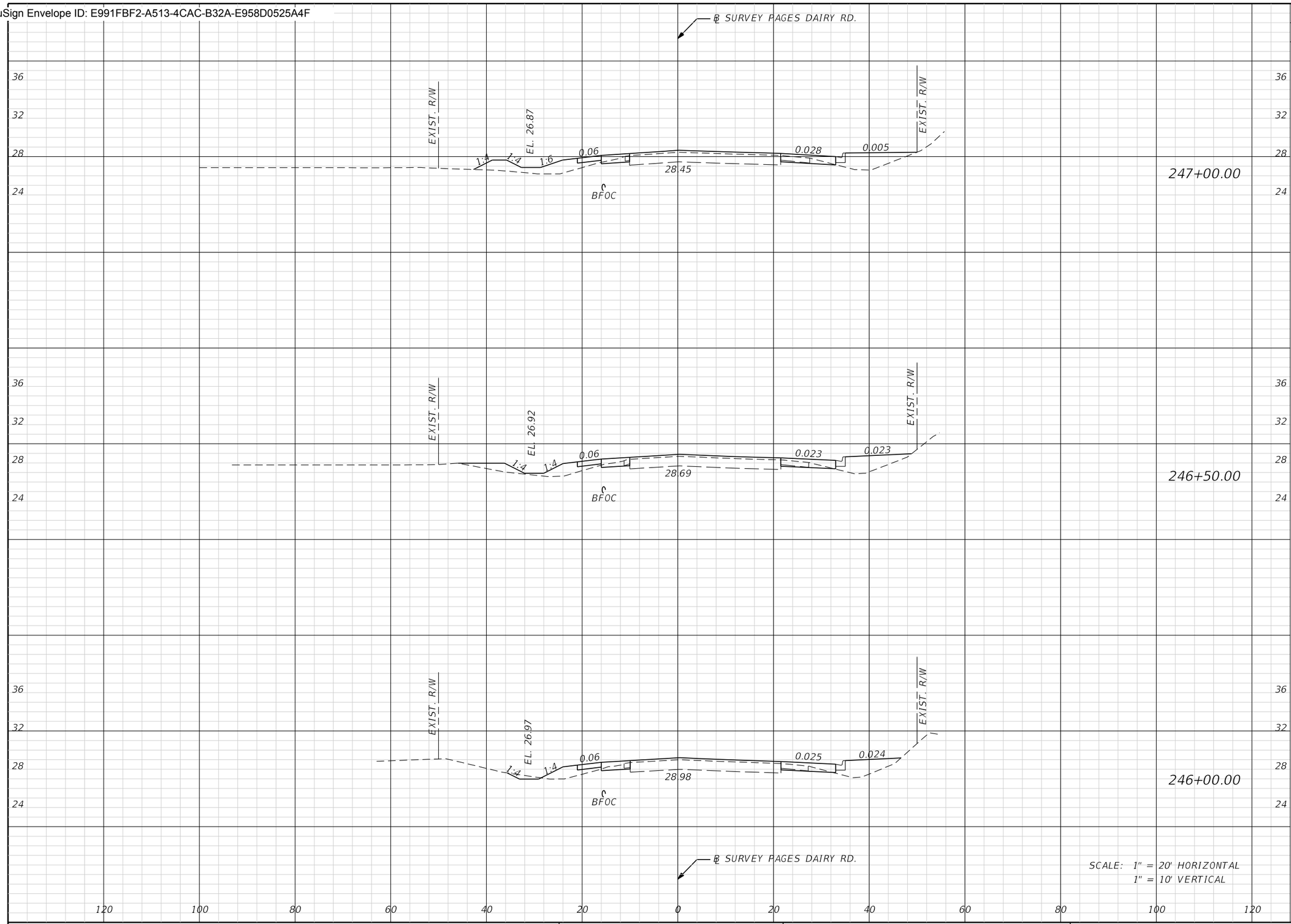
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

CROSS SECTIONS

SHEET NO. 105

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



Regular Exc.		Embankment	
A	V	A	V
8	14	40	68
7	15	34	54
9	21	24	45

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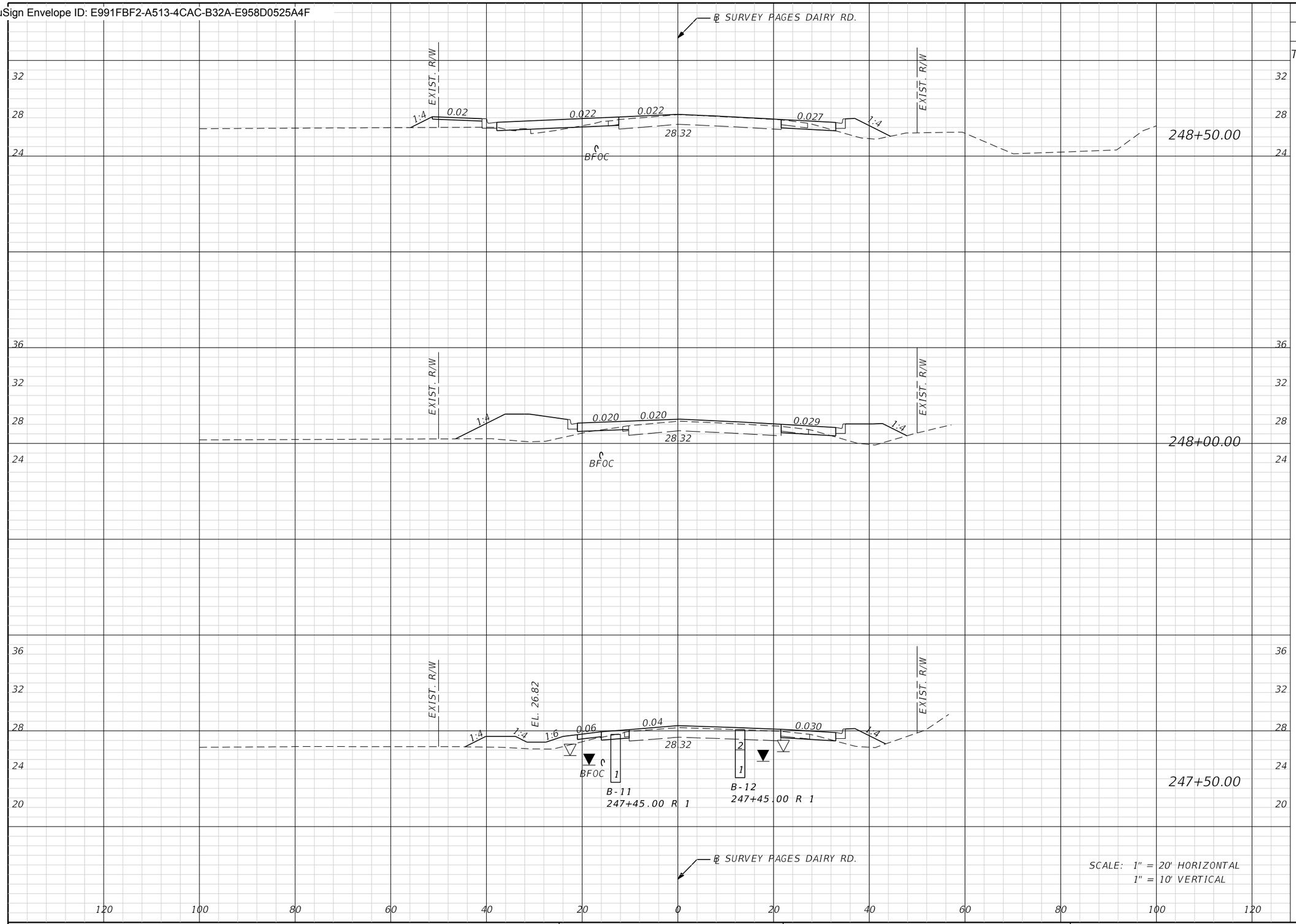
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

CROSS SECTIONS

SHEET NO. 106

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



Regular Exc.		Embankment	
A	V	A	V
TOTAL :	691	TOTAL :	864
10	15	25	89
6	13	71	96
8	14	33	67

REVISIONS			
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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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CROSS SECTIONS

SHEET NO. 107

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THE FOLLOWING NARRATIVE OF THE STORMWATER POLLUTION PREVENTION PLAN CONTAINS REFERENCES TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE DESIGN STANDARDS, AND OTHER SHEETS OF THESE CONSTRUCTION PLANS. THE FIRST SHEET OF THE CONSTRUCTION PLANS (CALLED THE KEY SHEET) CONTAINS AN INDEX TO THE OTHER SHEETS. THE COMPLETE STORMWATER POLLUTION PREVENTION PLAN INCLUDES SEVERAL ITEMS: THIS NARRATIVE DESCRIPTION, THE DOCUMENTS REFERENCED IN THIS NARRATIVE, THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN REQUIRED BY SPECIFICATION SECTION 104, AND REPORTS OF INSPECTIONS MADE DURING CONSTRUCTION.

1.0 SITE DESCRIPTION:

1.A. NATURE OF CONSTRUCTION ACTIVITY:

THE PROJECT IS THE RECONSTRUCTION OF CHESTER ROAD AT PAGES DAIRY ROAD INTERSECTION TO AN URBAN ROADWAY. THIS INVOLVES CONSTRUCTING ROADWAY SURFACE, CURB AND GUTTER, SIDEWALK, UNDERGROUND STORM DRAIN SYSTEMS, AND STORMWATER MANAGEMENT FACILITIES. THE PROJECT EXTENDS FROM DAVID HALLMAN PARKWAY TO SOUTH OF STARFISH DRIVE ON CHESTER ROAD, A DISTANCE OF APPROXIMATELY 0.45 MILES, AND ALSO ON PAGES DAIRY ROAD APPROXIMATELY 900' WEST OF CHESTER ROAD.

1.B. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A DETAILED SEQUENCE OF CONSTRUCTION FOR ALL CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF MAJOR ACTIVITIES DESCRIBED BELOW, UNLESS THE CONTRACTOR PROPOSES A DIFFERENT SEQUENCE THAT IS EQUAL OR BETTER AT CONTROLLING EROSION AND TRAPPING SEDIMENT AND IS APPROVED BY THE ENGINEER.

FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED.

1. CLEARING AND GRUBBING, EARTHWORK, AND STORM DRAIN CONSTRUCTION FOR THE OUTFALL FROM THE POND.

2. CLEARING AND GRUBBING, EARTHWORK FOR POND CONSTRUCTION.

3. STORM DRAIN AND ROADWAY CONSTRUCTION. CONSTRUCT THE STORM DRAIN PIPE IN THE UPSTREAM DIRECTION.

4. EARTHWORK ASSOCIATED WITH THE CONSTRUCTION OF ROADWAY, CURB, SUBGRADE, BASE, PAVEMENT, AND SIDEWALK.

1.C. AREA ESTIMATES:

TOTAL SITE AREA: 10.9 ACRES
TOTAL AREA TO BE DISTURBED: 10.9 ACRES

1.D. RUNOFF DATA:

RUNOFF COEFFIECIENTS:

BEFORE: 0.53
DURING: VARIES FROM 0.53 TO 0.71
AFTER: 0.71

SOILS DATA: THE RESULTS OF THE SOIL BORINGS ALONG THE ROADWAY ARE SHOWN IN THE ROADWAY SOIL SURVEY SHEET(S). THE RESULTS OF SOIL BORINGS DONE IN THE PONDS ARE SHOWN ON THE POND DETAIL SHEETS. THE NUMBERS FOR THESE ARE IDENTIFIED ON THE KEY SHEET OF THESE CONSTRUCTION PLANS. IN GENERAL, THE SOILS ARE SILTY FINE SANDS.

OUTFALL INFORMATION:

THERE ARE 3 OUTFALLS.

#1 DESCRIPTION: POND 1. DISCHARGES TO A 18" CROSS DRAIN CROSSING CHESTER ROAD AND FLOWS EAST TOWARDS LANCEFORD CREEK.

LOCATION: LATITIUDE 30° 38' 00" N, LONGITUDE, 81° 32' 45" W.
EST. DRAINAGE AREA SIZE: 4.3 ACRES

#2 DESCRIPTION: CROSS DRAIN STA. 248+02 THIS DISCHARGES TO THE SOUTH DITCH ADJACENT TO THE RAILROAD AND FLOWS EAST TOWARDS LANCEFORD CREEK.

LOCATION: LATITIUDE 30° 38' 00" N, LONGITUDE, 81° 32' 45" W.
EST. DRAINAGE AREA SIZE: 10.7 ACRES

#3 DESCRIPTION: CROSS DRAIN STA. 248+44 THIS DISCHARGES TO THE NORTH DITCH ADJACENT TO THE RAILROAD AND FLOWS EAST TOWARDS LANCEFORD CREEK.

LOCATION: LATITIUDE 30° 38' 00" N, LONGITUDE, 81° 32' 45" W.
EST. DRAINAGE AREA SIZE: 1.1 ACRES

1.E. SITE MAP:

THE CONSTRUCTION PLANS ARE BEING USED AS THE SITE MAPS. THE LOCATION OF THE REQUIRED INFORMATION IS DESCRIBED BELOW. THE SHEET NUMBERS FOR THE PLAN SHEETS REFERENCED ARE IDENTIFIED ON THE KEY SHEET OF THESE CONSTRUCTION PLANS.

* DRAINAGE PATTERNS: THE DRAINAGE BASIN DIVIDES AND FLOW DIRECTIONS ARE SHOWN ON THE DRAINAGE MAPS.

*APPROXIMATE SLOPES: THE SLOPES OF THE SITE CAN BE SEEN IN THE CROSS SECTION SHEETS AND THE PPROFILE SHEETS.

*AREAS OF SOIL DISTURBANCE: THE AREAS TO BE DISTURBED ARE INDICATED ON THE PLAN SHEETS AND CROSS SECTION SHEETS. ANY AREAS WHERE PERMANENT FEATURES ARE SHOWN TO BE CONSTRUCTED ABOVE OR BELOW GROUND WILL BE DISTURBED.

*AREAS NOT TO BE DISTURBED: ESSENTIALLY THE WHOLE PROJECT WILL BE DISTURBED DURING CONSTRUCTION.

*LOCATIONS OF TEMPORARY CONTROLS: THESE ARE SHOWN ON THE EROSION CONTROL SHEETS.

* LOCATIONS OF PERMANENT CONTROLS: THE STORMWATER POND IS THE PRIMARY PERMANENT STORMWATER MANAGEMENT CONTROLS. THESE ARE SHOWN ON THE POND DETAIL SHEETS.

* AREAS TO BE STABILIZED: TEMPORARY STABILIZATION PRACTICES ARE SHOWN IN THE SAME LOCATION AS THE TEMPORARY CONTROLS MENTIONED ABOVE. PERMANENT STABILIZATION IS SHOWN ON THE TYPICAL SECTION SHEETS AND THE PLAN SHEETS.

* SURFACE WATERS: THERE IS SURFACE WATER AT THE SITE OF THE POND.

* DISCHARGE POINTS TO SURFACE WATERS: THERE ARE NO DISCHARGE POINTS TO SURFACE WATERS.

1.F. RECEIVING WATERS:

LANCEFORD CREEK. A TRIUTARY OF THE ST. MARY'S RIVER.

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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STORMWATER POLLUTION PREVENTION PLAN

SHEET NO. 108

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

2.0 CONTROLS:

2.A. EROSION AND SEDIMENT CONTROLS:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STABILIZATION AND STRUCTURAL PRACTICES BASED ON THE CONTRACTOR'S PROPOSED TEMPORARY TRAFFIC CONTROL (TTC) PLAN. THE FOLLOWING RECOMMENDED GUIDELINES ARE BASED ON THE TEMPORARY TRAFFIC CONTROL PLAN OUTLINED IN THE CONSTRUCTION PLANS. WHERE FOLLOWING THE TEMPORARY TRAFFIC CONTROL PLAN OUTLINED IN THESE CONSTRUCTION PLANS, THE CONTRACTOR MAY CHOSE TO ACCEPT THE FOLLOWING GUIDELINES OR MODIFY THEM IN THE SEDIMENT AND EROSION CONTROL PLAN, SUBJECT TO APPROVAL BY THE ENGINEER. AS WORK PROGRESSES, THE CONTRACTOR SHALL MODIFY THE PLAN TO ADAPT TO SEASONAL VARIATION, CHANGES IN CONSTRUCTION ACTIVITIES, AND THE NEED FOR BETTER PRACTICES.

FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED.

FOLLOW THE SEQUENCE OF ACTIVITIES SHOWN IN PARAGRAPH 1.B.

2.A.1 STABILIZATION PRACTICES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE STABILIZATION PRACTICES PROPOSED TO CONTROL EROSION. THE CONTRACTOR SHALL INITIATE ALL STABILIZATION MEASURES AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS, IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. THE STABILIZATION PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

TEMPORARY:

* ARTIFICIAL COVERINGS IN ACCORDANCE WITH SPECIFICATION SECTION 104.

* TURF AND SOD IN ACCORDANCE WITH SPECIFICATION SECTION 104.

PERMANENT:

* ASPHALT OR CONCRETE SURFACE.

* SOD IN ACCORDANCE WITH SPECIFICATION SECTION 570.

2.A.2 STRUCTURAL PRACTICES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STRUCTURAL PRACTICES TO CONTROL OR TRAP SEDIMENT AND OTHERWISE PREVENT THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. SEDIMENT CONTROLS SHALL BE IN PLACE BEFORE DISTURBING SOIL UPSTREAM OF THE CONTROL. THE STRUCTURAL PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER:

TEMPORARY:

* SEDIMENT BARRIERS IN ACCORDANCE WITH FDOT SPECIFICATION 104 AND EROSION CONTROL DETAILS SHEET.

* CONTRACTORS SHALL REMOVE SILT FENCE AFTER PROJECT COMPLETION

* INLET PROTECTION IN ACCORDANCE WITH FDOT SPECIFICATION 104 AND EROSION CONTROL DETAILS SHEET.

PERMANENT:

* STORMWATER PONDS.

* SOD.

2.B STORMWATER MANAGEMENT:

STORM DRAIN SYSTEM WILL BE CONSTRUCTED TO CONVEY RUNOFF TO THE STORMWATER DETENTION POND.

2.C OTHER CONTROLS:

2.C.1 WASTE DISPOSAL:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS TO PREVENT THE DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIALS, TO WATERS OF THE UNITED STATES. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER:

* PROVIDING LITTER CONTROL AND COLLECTION WITHIN THE PROJECT DURING CONSTRUCTION ACTIVITIES.

* DISPOSING OF ALL FERTILIZER OR OTHER CHEMICAL CONTAINERS ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.

* DISPOSING OF SOLID MATERIALS INCLUDING BUILDING AND CONSTRUCTION MATERIALS OFF THE PROJECT SITE BUT NOT IN SURFACE WATERS, OR WETLANDS.

2.C.2 OFF-SITE VEHICLE TRACKING & DUST CONTROL:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS FOR MINIMIZING OFFSITE VEHICLE TRACKING OF SEDIMENTS AND GENERATING DUST. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

* COVERING LOADED HAUL TRUCKS WITH TARPAULINS.

* REMOVING EXCESS DIRT FROM ROADS DAILY.

* STABILIZING CONSTRUCTION ENTRANCES ACCORDING TO DESIGN STANDARD 106.

* USING ROADWAY SWEEPERS DURING DUST GENERATING ACTIVITIES SUCH AS EXCAVATION AND MILLING OPERATIONS.

2.C.3 STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC TANK REGULATIONS:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED PROCEDURES TO COMPLY WITH APPLICABLE STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, AND SANITARY SEWER OR SEPTIC SYSTEMS.

2.C.4 FERTILIZERS AND PESTICIDES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROCEDURES FOR APPLYING FERTILIZERS AND PESTICIDES. THE PROPOSED PROCEDURES SHALL COMPLY WITH APPLICABLE SUBSECTIONS OF SECTION 570 OF THE SPECIFICATIONS.

2.C.5 TOXIC SUBSTANCES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A LIST OF TOXIC SUBSTANCES THAT ARE LIKELY TO BE USED ON THE JOB AND PROVIDE A PLAN ADDRESSING THE GENERATION, APPLICATION, MIGRATION, STORAGE, AND DISPOSAL OF THESE SUBSTANCES.

3.0 MAINTENANCE:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A PLAN FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROLS THROUGHOUT CONSTRUCTION. THE MAINTENANCE PLAN SHALL AT A MINIMUM, COMPLY WITH THE FOLLOWING:

* SILT FENCE: MAINTAIN PER SECTION 104. THE CONTRACTOR SHOULD ANTICIPATE REPLACING SILT FENCE ON 12 MONTH INTERVALS.

* SEDIMENT BARRIERS: REMOVE SEDIMENT AS PER MANUFACTURER'S RECOMMENDATIONS OR WHEN WATER PONDS IN UNACCEPTABLE AMOUNTS OR AREAS.

* POND: THE POND IS A TEMPORARY SEDIMENT BASIN UNTIL THE AREA THAT DRAIN TO THEM ARE STABILIZED, SO UNTIL THEN, REMOVE SEDIMENT FROM THE POND WHEN IT BECOMES 1.5' DEEP AT ANY POINT.

4.0 INSPECTIONS:

QUALIFIED PERSONNEL SHALL INSPECT THE FOLLOWING ITEMS AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.50 INCHES OR GREATER. TO COMPLY, THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAUGES AND RECORD THE DAILY RAINFALL. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. THE CONTRACTOR SHALL ALSO INSPECT THAT CONTROLS INSTALLED IN THE FIELD AGREE WITH THE LATEST STORMWATER POLLUTION PREVENTION PLAN.

* POINTS OF DISCHARGE TO WATERS OF THE UNITED STATES.

* POINTS OF DISCHARGE TO MUNICIPAL SEPARATE STORM DRAIN SYSTEMS.

* DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED.

* AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.

* STRUCTURAL CONTROLS.

* STORMWATER MANAGEMENT SYSTEMS.

* LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.

THE CONTRACTOR SHALL INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTIONS THAT INDICATE ITEMS ARE NOT IN GOOD WORKING ORDER.

IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT, AND PREVENT DISCHARGING POLLUTANTS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES, AS APPROVED BY THE ENGINEER.

5.0 NON-STORMWATER DISCHARGES:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL IDENTIFY ALL ANTICIPATED NON-STORMWATER DISCHARGES (EXCEPT FLOWS FROM FIRE FIGHTING ACTIVITIES). THE CONTRACTOR SHALL DESCRIBE THE PROPOSED MEASURES TO PREVENT POLLUTION OF THESE NON-STORMWATER DISCHARGES.

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Connelly & Wicker Inc.
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Jacksonville, FL 32246
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Engineer of Record:
Daniel R. Waltermyer, P.E.
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NASSAU COUNTY ENGINEERING

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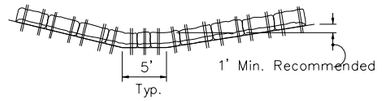
STORMWATER POLLUTION PREVENTION PLAN

SHEET NO. 109

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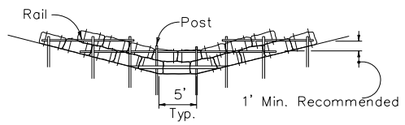
EROSION AND SEDIMENT CONTROL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SILT FROM SITE IF NOT REUSABLE ON-SITE AND ASSURING PLAN ALIGNMENT AND GRADE IN ALL DITCHES AND SWALES AT COMPLETION OF CONSTRUCTION.
2. THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.
3. ADDITIONAL PROTECTION – ON-SITE PROTECTION IN ADDITION TO THE ABOVE MUST BE PROVIDED THAT WILL NOT PERMIT SILT TO LEAVE THE PROJECT CONFINES DUE TO UNSEEN CONDITIONS OR ACCIDENTS.
4. CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC. ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.
5. WIRE MESH SHALL BE LAID OVER THE DROP INLET SO THAT THE WIRE EXTENDS A MINIMUM OF 1 FOOT BEYOND EACH SIDE OF THE INLET STRUCTURE. HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2-INCH OPENINGS SHALL BE USED. IF MORE THAN ONE STRIP OF MESH IS NECESSARY, THE STRIPS SHALL BE OVERLAPPED.
6. FDOT NO. 1 COARSE AGGREGATE SHALL BE PLACED OVER THE WIRE MESH AS INDICATED IN D-903. THE DEPTH OF STONE SHALL BE AT LEAST 12 INCHES OVER THE ENTIRE INLET OPENING. THE STONE SHALL EXTEND BEYOND THE INLET OPENING AT LEAST 18 INCHES ON ALL SIDES.
7. IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE STONES MUST BE PULLED AWAY FROM THE INLET, CLEANED AND REPLACED.
8. THE FILTER BARRIER SHALL BE ENTRENCHED AND BACKFILLED. A TRENCH SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 8 INCHES. AFTER THE BALES ARE STAKED, THE EXCAVATED SOIL SHALL BE BACKFILLED AND COMPACTED AGAINST THE FILTER BARRIER.
9. NECESSARY REPAIRS TO BARRIERS SHALL BE ACCOMPLISHED PROMPTLY.
10. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.
11. SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
12. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
13. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-THIRD THE HEIGHT OF THE BARRIER.
14. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.
15. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
16. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/3 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
17. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL PRACTICES AS OUTLINED IN THE PLANS, SPECIFICATIONS AND ST. JOHNS RIVER WATER MANAGEMENT DISTRICT SPECIFICATIONS AND CRITERIA.
18. FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO "THE FLORIDA DEVELOPMENT MANUAL – A GUIDE TO SOUND LAND AND WATER MANAGEMENT" FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION (F.D.E.R.) CHAPTER 6.
19. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION. SEE DETAIL SHEET FOR TYPICAL CONSTRUCTION.
20. ALL DISTURBED AREAS SHALL BE GRASSED, FERTILIZED, MULCHED AND MAINTAINED UNTIL A PERMANENT VEGETATIVE COVER IS ESTABLISHED.
21. SOD SHALL BE PLACED IN AREAS WHICH MAY REQUIRE IMMEDIATE EROSION PROTECTION TO ENSURE WATER QUALITY STANDARDS ARE MAINTAINED.
22. ANY DISCHARGE FROM DEWATERING ACTIVITY SHALL BE FILTERED AND CONVEYED TO THE OUTFALL IN A MANNER WHICH PREVENTS EROSION AND TRANSPORTATION OF SUSPENDED SOLIDS TO THE RECEIVING OUTFALL.
23. DEWATERING PUMPS SHALL NOT EXCEED THE CAPACITY OF THAT WHICH REQUIRES A CONSUMPTIVE USE PERMIT FROM THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT.
24. ALL DISTURBED AREAS TO BE STABILIZED THROUGH COMPACTION, SILT SCREENS, AND GRASSING. ALL FILL SLOPES 3:1 OR STEEPER TO RECEIVE STAKED SOLID SOD.
25. ALL DEWATERING, EROSION, AND SEDIMENT CONTROL TO REMAIN IN PLACE AFTER COMPLETION OF CONSTRUCTION AND REMOVED ONLY WHEN AREAS HAVE STABILIZED.
26. THIS PLAN INDICATES THE MINIMUM EROSION AND SEDIMENT MEASURES REQUIRED FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL APPLICABLE RULES, REGULATIONS AND WATER QUALITY GUIDELINES AND MAY NEED TO INSTALL ADDITIONAL CONTROLS.
27. THE CONTRACTOR SHALL BE REQUIRED TO RESPOND TO ALL WATER MANAGEMENT DISTRICT INQUIRIES, RELATIVE TO COMPLIANCE OF SJRWMD FOR EROSION AND SEDIMENTATION CONTROL. THE COST OF THIS COMPLIANCE SHALL BE PART OF THE CONTRACT.



Anchor Bales With 2 – 2" x 2" x 4' Stakes Per Bale

ELEVATION
TYPE I



Anchor Lower Bales With 2 – 2" x 2" x 4' Stakes Per Bale.
Anchor Top Bales To Lower Bales With 2 – 2" x 2" x 4' Stakes Per Bale.

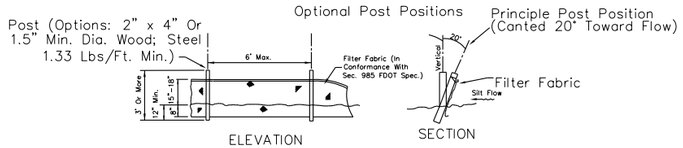
ELEVATION
TYPE II

Application and Spacing: The use of Types I & II bale barriers should be limited to the conditions outlined in Chart I, Sheet 1 of 3, Index No. 102

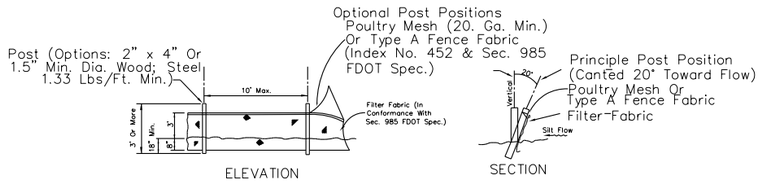
BARRIER FOR UNPAVED DITCHES

HAY BALE BARRIERS TYPE I & TYPE II

N.T.S.



TYPE III SILT FENCE



TYPE IV SILT FENCE



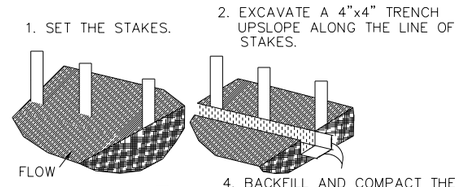
Type III Or Type IV Silt Fence
Protection Around Ditch Bottom Inlets.

Do not deploy in a manner that silt fences will act as a dam across permanent flowing watercourses. Silt fences are to be used at upland locations and turbidity barriers used at permanent bodies of water.

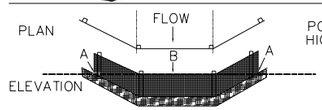
SILT FENCE APPLICATIONS

SILT FENCE TYPE III & IV

N.T.S.



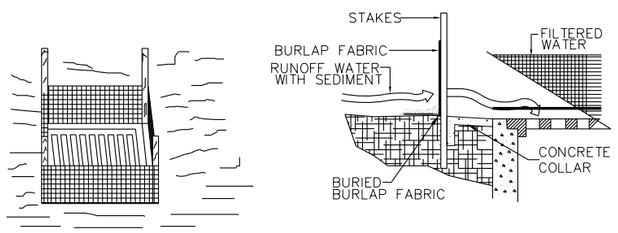
CONSTRUCTION OF A FILTER BARRIER



PROPER PLACEMENT OF A FILTER BARRIER IN A DRAINAGE WAY

FILTER BARRIER

N.T.S.



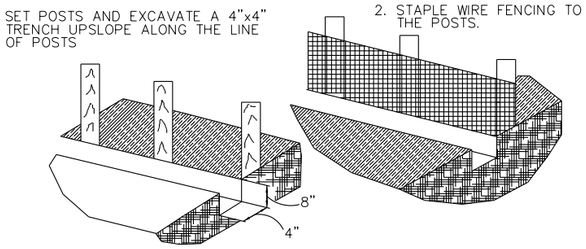
FABRIC SEDIMENT FILTER

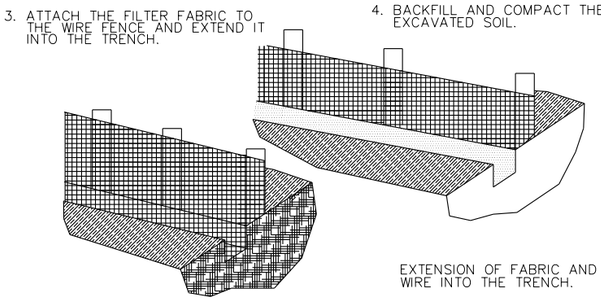
SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPES NO GREATER THAN 5 PERCENT) WHERE SHEET OR OVERLAND FLOWS (NOT EXCEEDING 0.5 cfs) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS. SUCH AS IN STREET OR HIGHWAY MEDIANS.

DROP INLET SEDIMENT TRAP

N.T.S.





CONSTRUCTION DETAILS FOR SILT FENCES

N.T.S.

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Engineer of Record:
Daniel R. Waltermyer, P.E.
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NASSAU COUNTY ENGINEERING

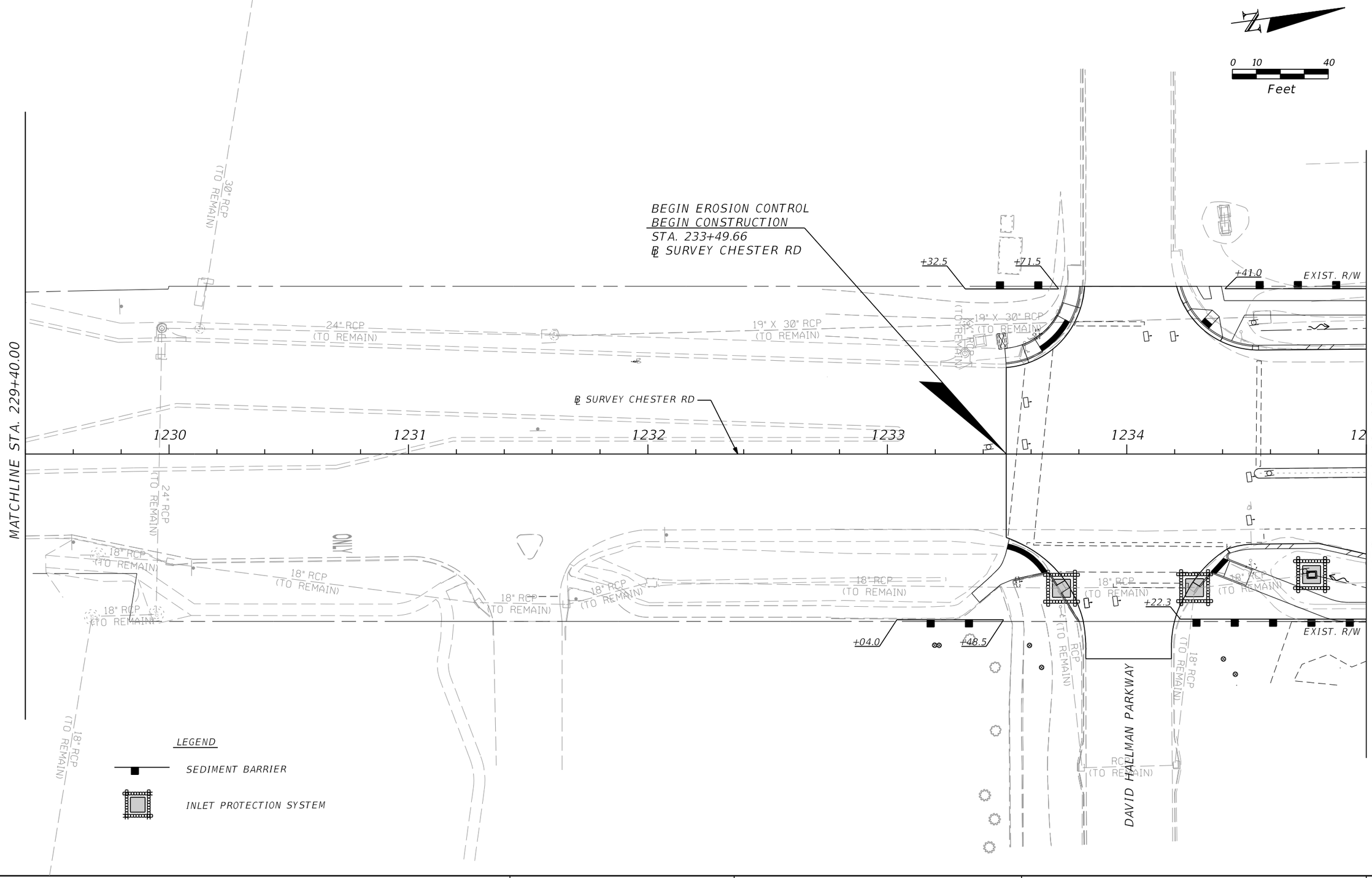
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EROSION CONTROL DETAILS

SHEET NO. 110

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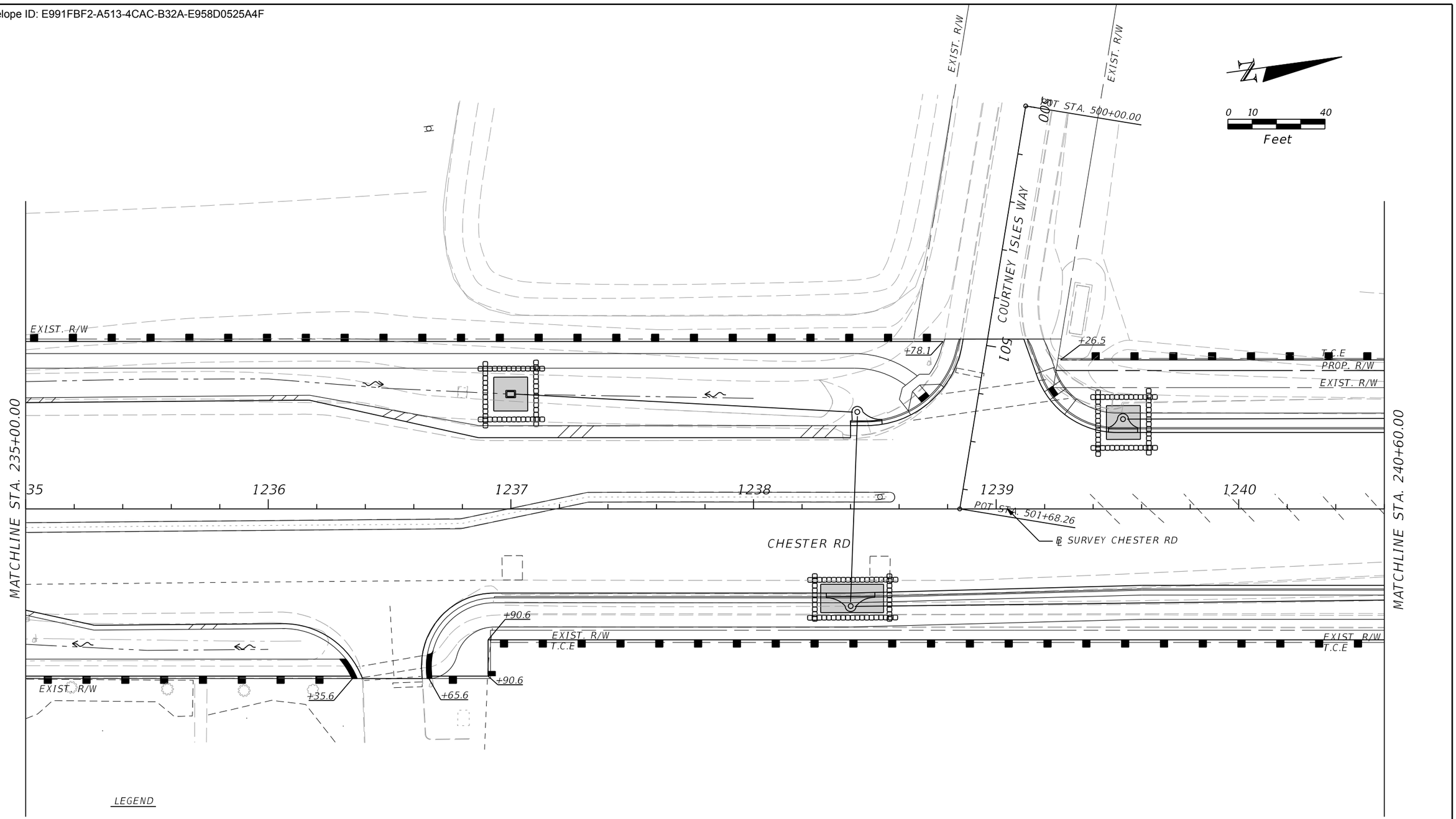
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SHEET NO. 111

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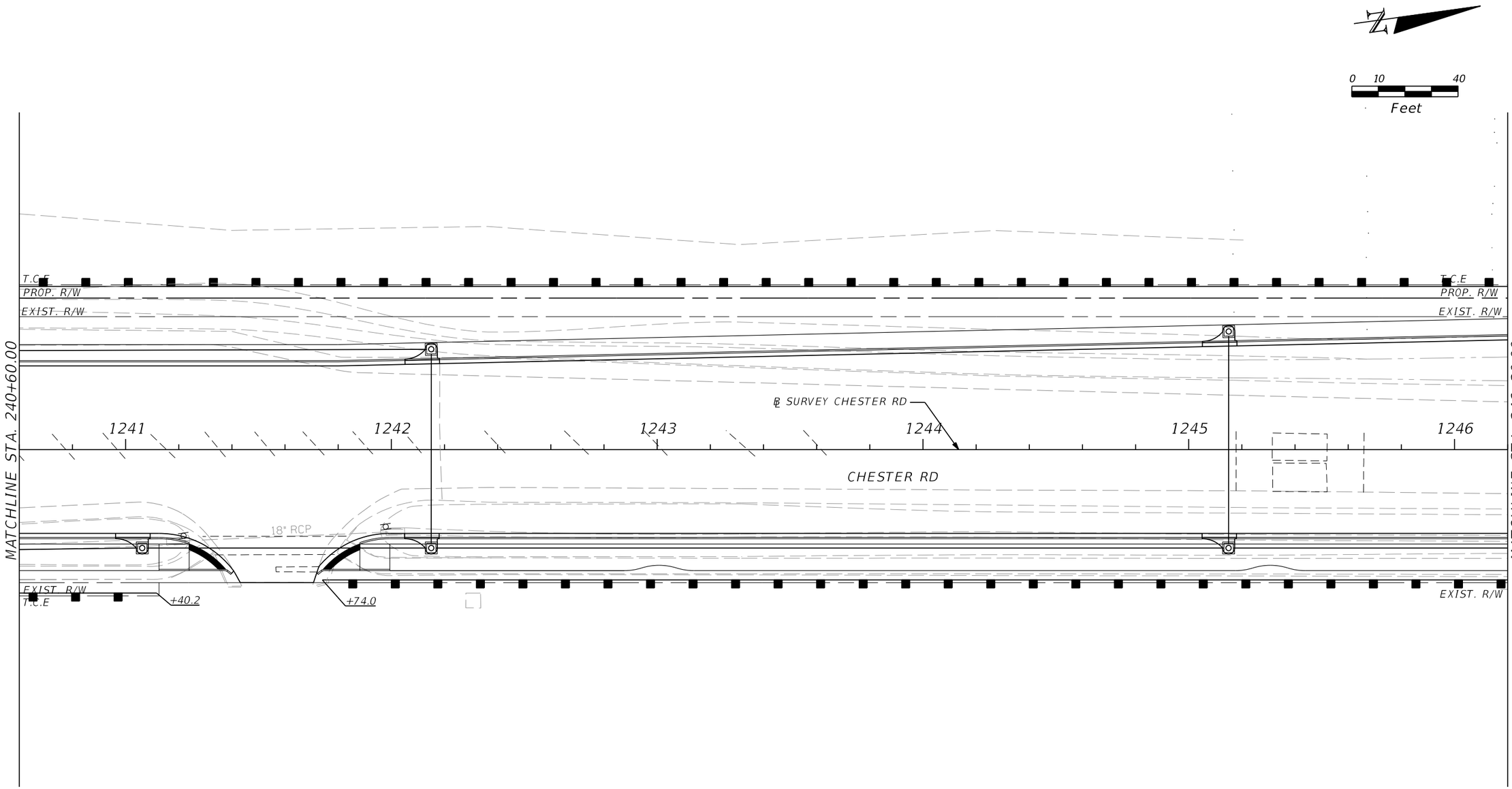
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LEGEND

SEDIMENT BARRIER

INLET PROTECTION SYSTEM

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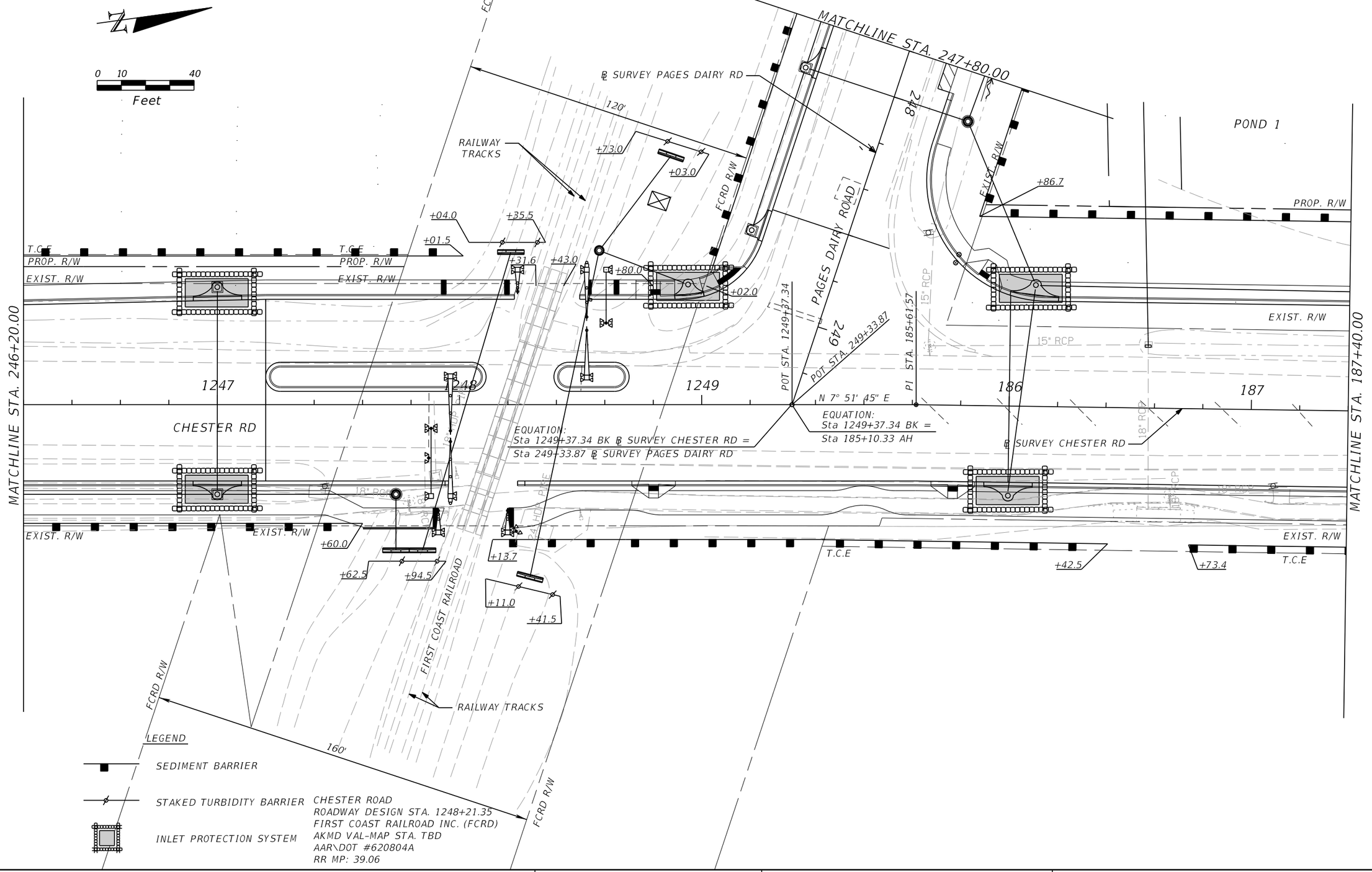
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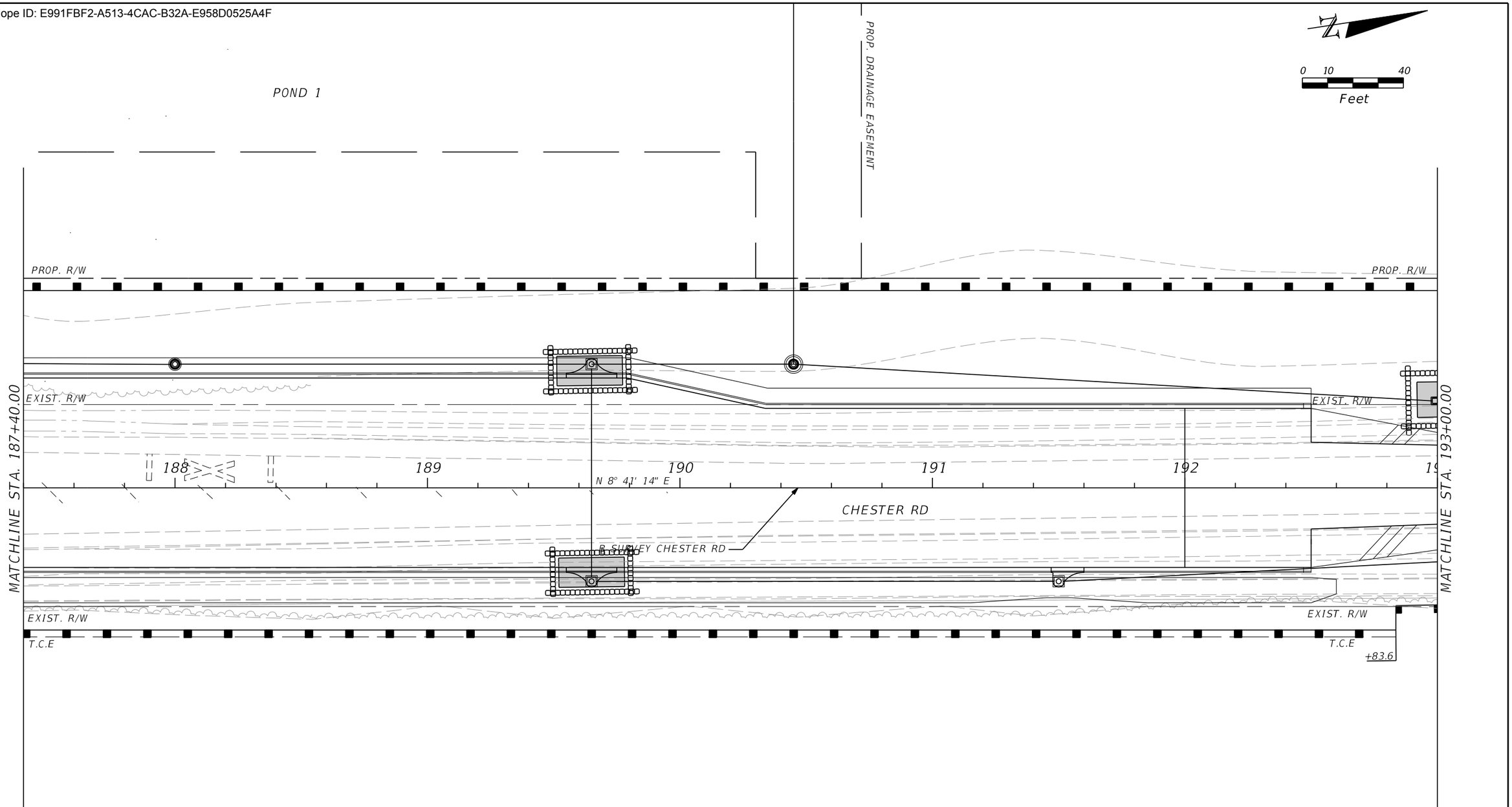
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LEGEND

SEDIMENT BARRIER

INLET PROTECTION SYSTEM

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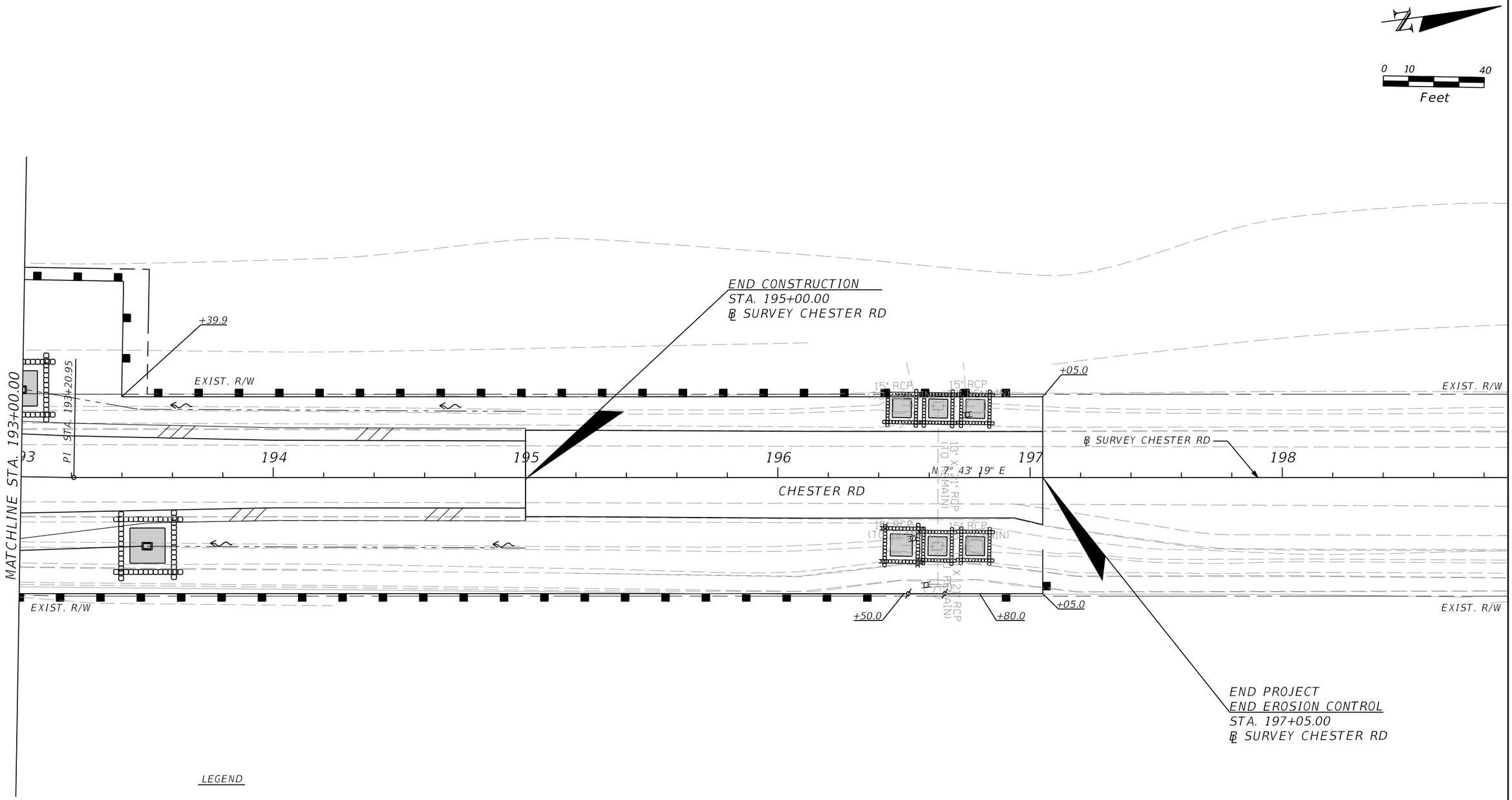
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LEGEND

SEDIMENT BARRIER

STAKED TURBIDITY BARRIER

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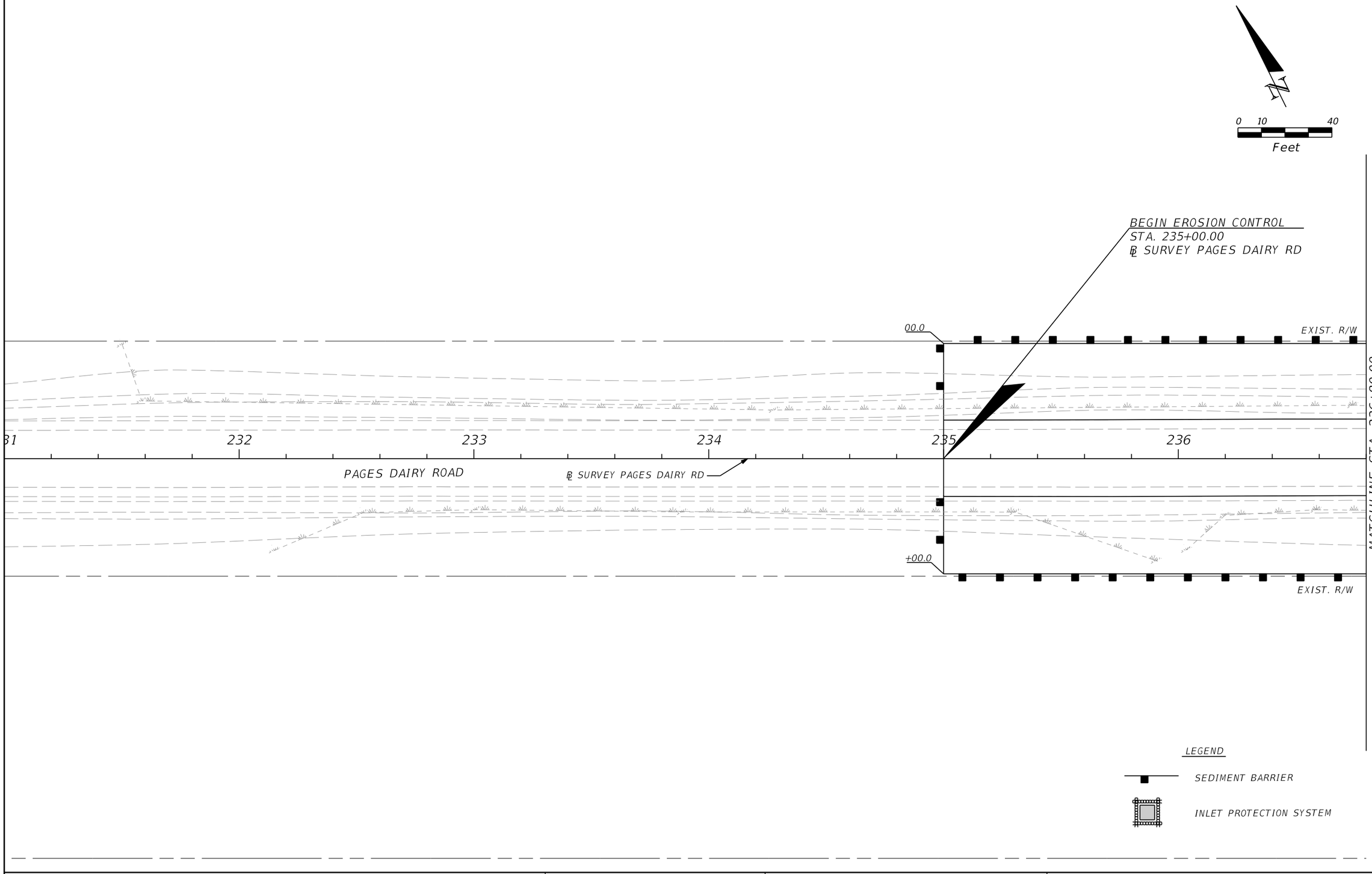
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EROSION CONTROL PLAN SHEET

SHEET NO. 117

Danny 12/14/2023 8:17:03 AM J:\Transportation\Projects\17-01-0202_ChesterInt\emo\PLANEM08.DGN

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PROP. DRAIANGE EASEMENT

N

0 10 40
Feet

EXIST. R/W

+43.0

+73.0

EXIST. R/W

℄ SURVEY PAGES DAIRY RD

MATCHLINE STA. 236+80.00

237 238 239 240 241 242

S 63° 45' 54" E

PAGES DAIRY ROAD

MATCHLINE STA. 242+20.00

EXIST. R/W

EXIST. R/W

LEGEND

SEDIMENT BARRIER

INLET PROTECTION SYSTEM

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

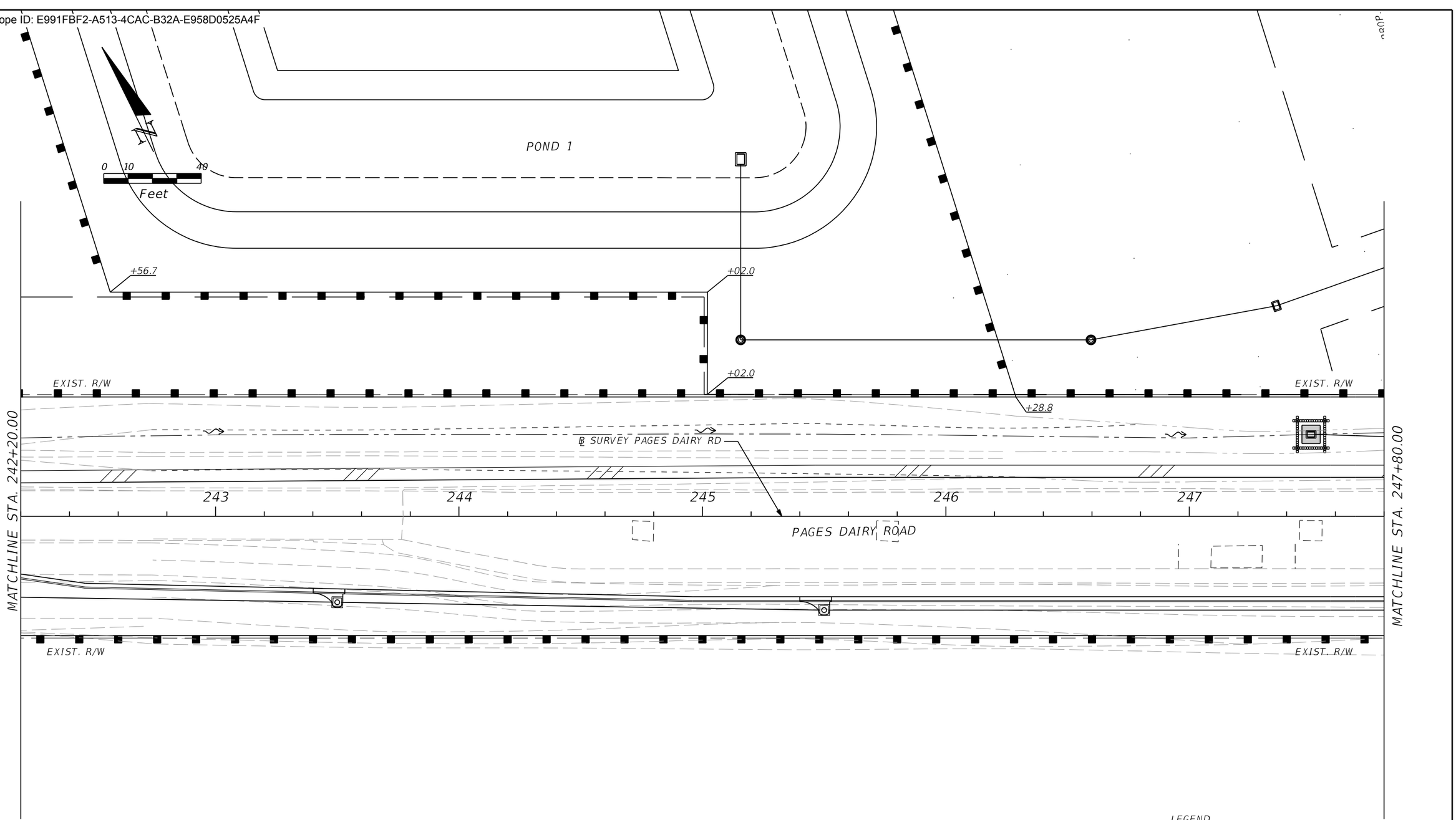
EROSION CONTROL PLAN SHEET

SHEET NO. 118

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Jacksonville, FL 32246
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Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

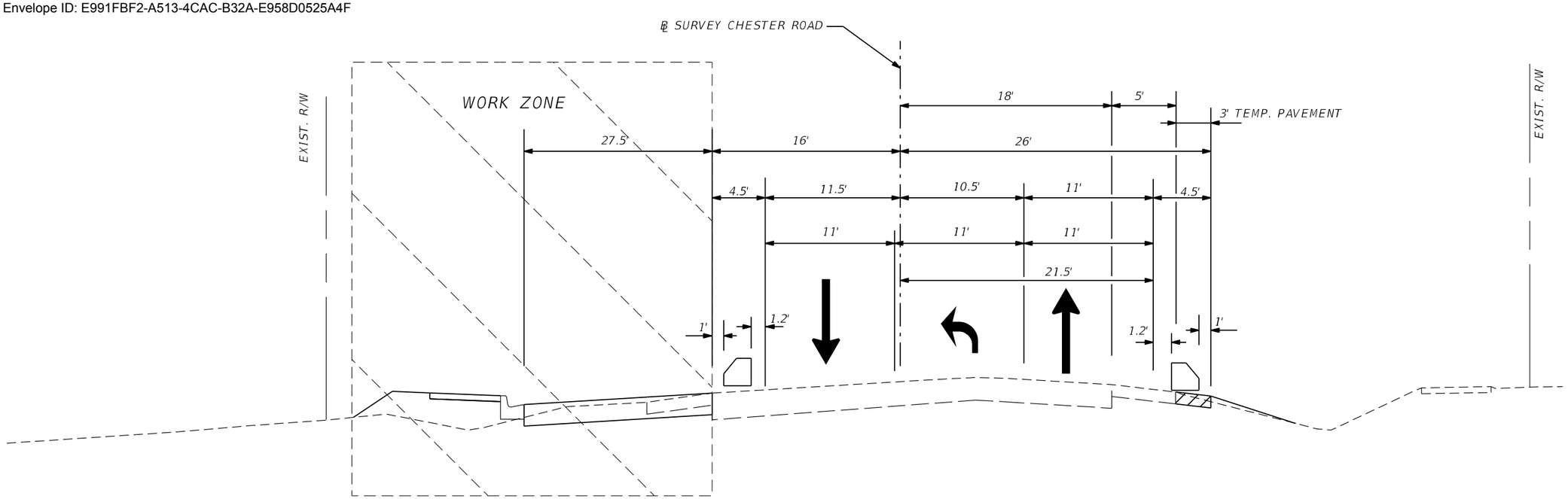
EROSION CONTROL PLAN SHEET

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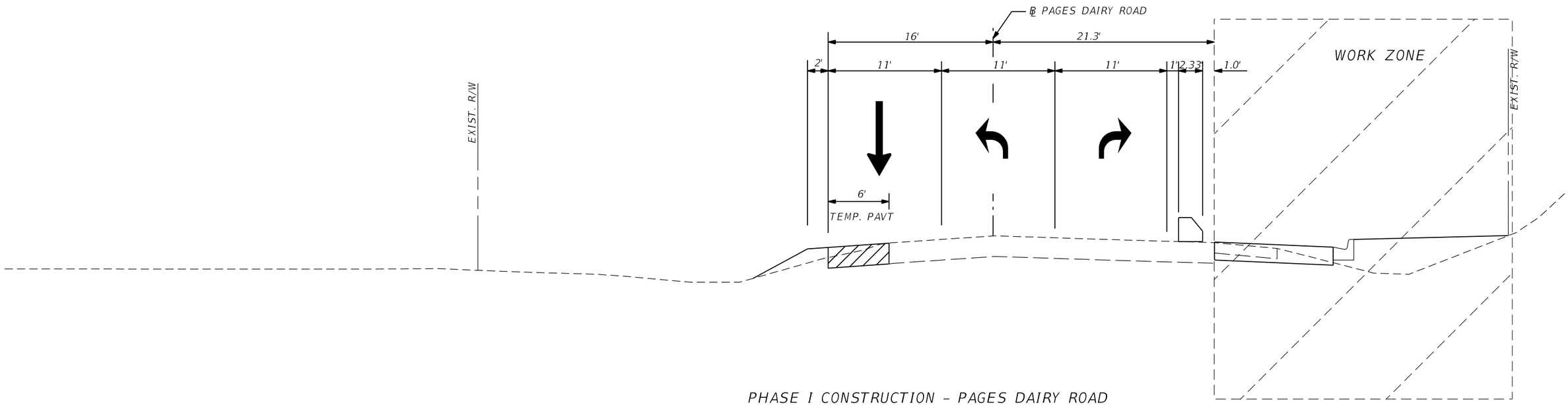
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PHASE I CONSTRUCTION – CHESTER ROAD SOUTH OF RAILROAD

FIRST COAST RAILROAD EFFORT FOR PHASE 1:
1. INSTALL SHORTENED NB GATE
2. INSTALL LENGTHENED SB GATE



PHASE I CONSTRUCTION – PAGES DAIRY ROAD

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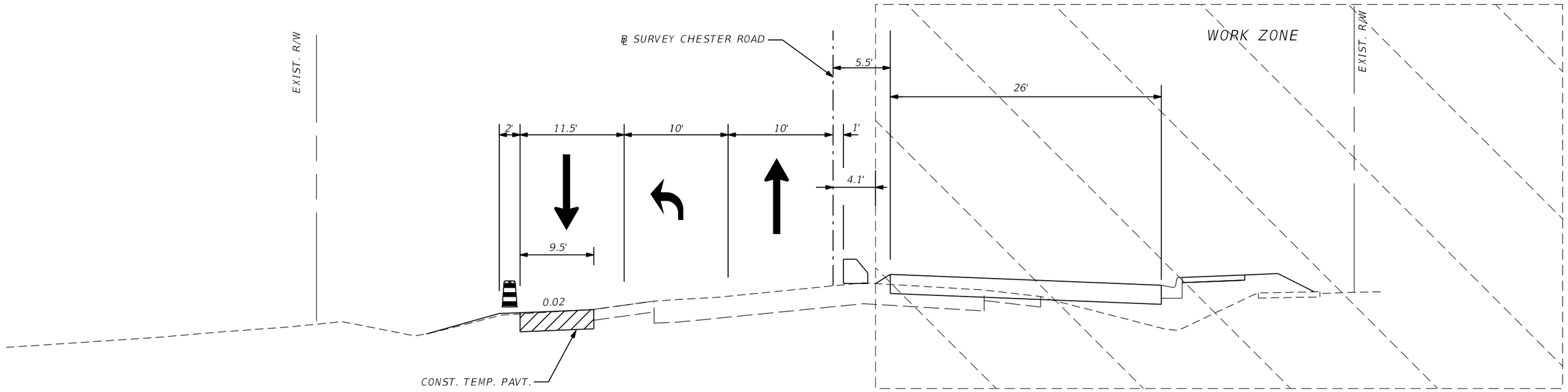
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TRAFFIC CONTROL PLANS TYPICAL SECTIONS

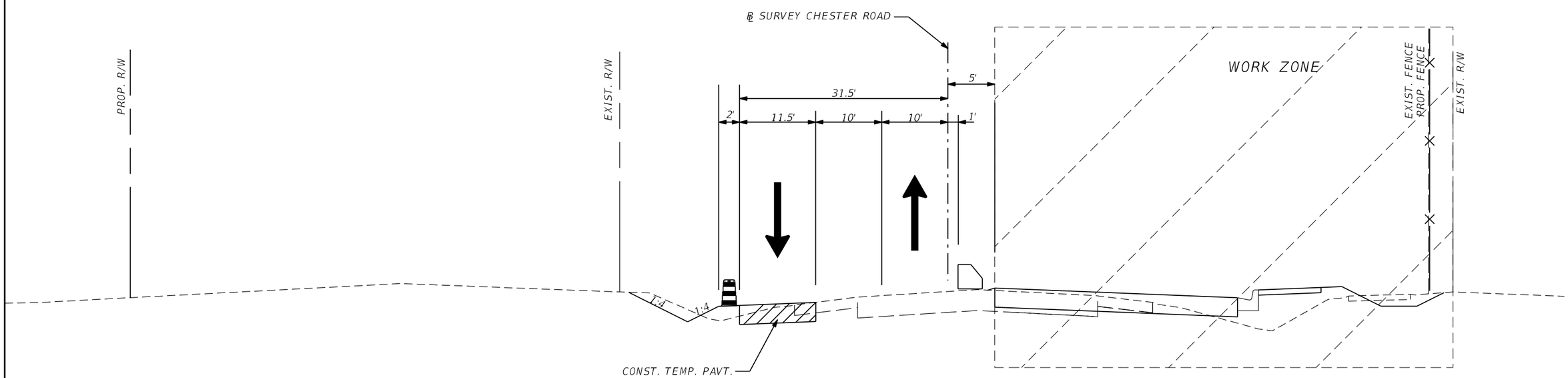
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FIRST COAST RAILROAD EFFORT FOR PHASE 2:
1. INSTALL SB GATE, CANTILEVER SIGNAL, AND SIDEWALK GATE
2. INSTALL NB TEMPORARY GATE

PHASE II CONSTRUCTION – CHESTER ROAD SOUTH OF RAILROAD



PHASE II CONSTRUCTION – CHESTER ROAD NORTH OF PAGES DAIRY ROAD

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

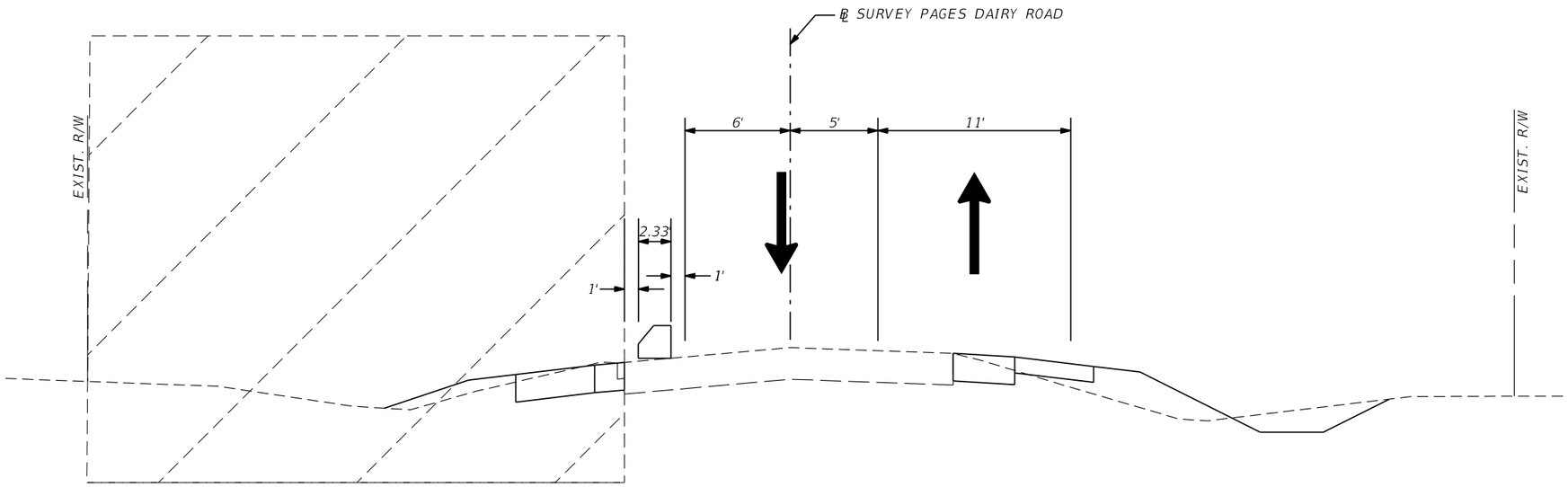
TRAFFIC CONTROL PLANS TYPICAL SECTIONS

SHEET NO. 121

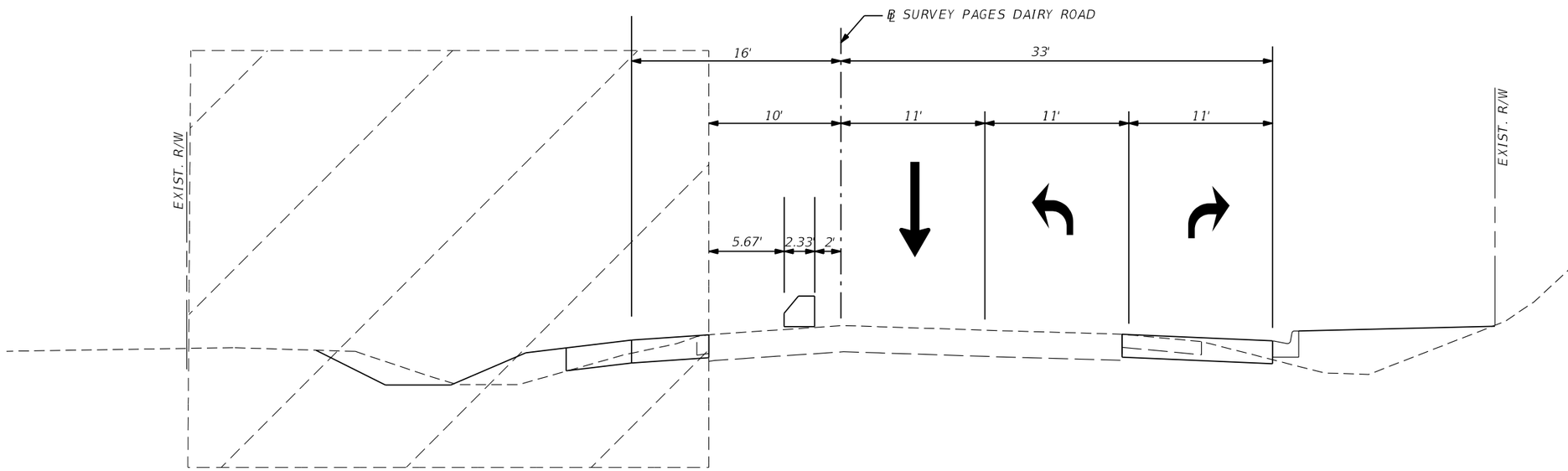
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PHASE II CONSTRUCTION - PAGES DAIRY ROAD
STA. 240+00 TO STA. 242+00



PHASE II CONSTRUCTION - PAGES DAIRY ROAD
STA. 242+00 TO STA. 248+90

REVISIONS			
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Jacksonville, FL 32246
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Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

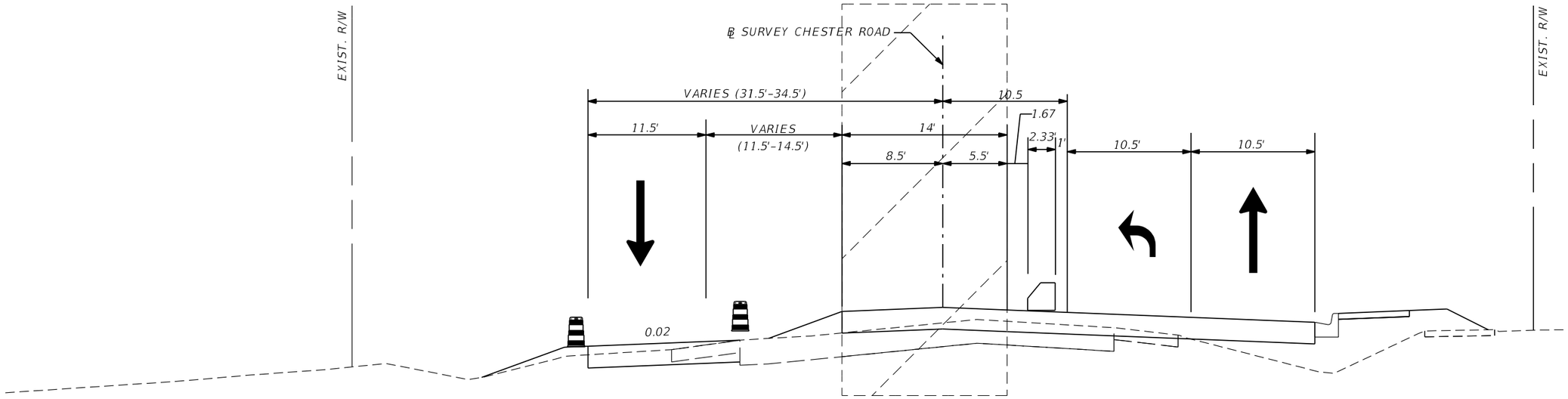
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TRAFFIC CONTROL PLANS
TYPICAL SECTIONS

SHEET NO. 122

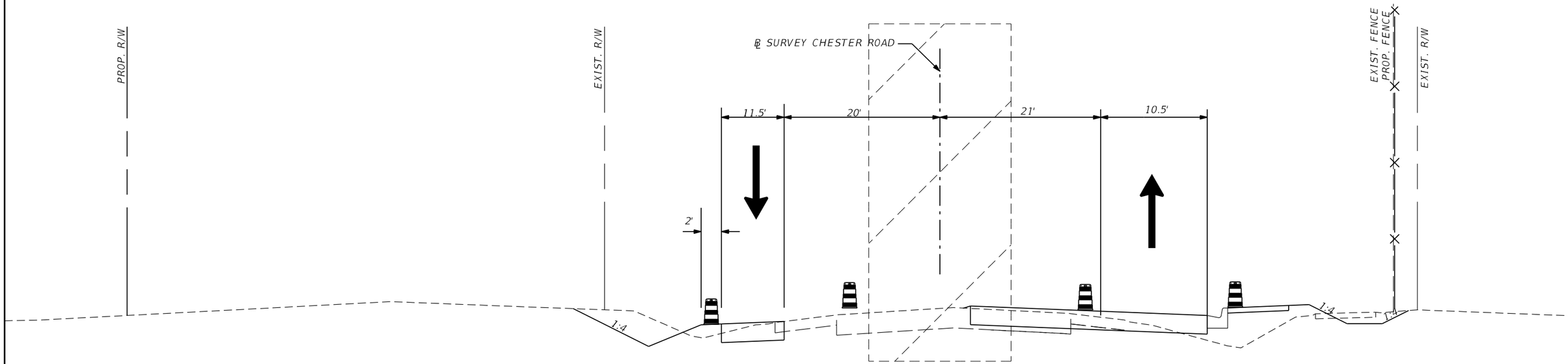
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PHASE III CONSTRUCTION - CHESTER ROAD SOUTH OF RAILROAD

FIRST COAST RAILROAD EFFORT FOR PHASE 3:
1. INSTALL NB GATE, CANTILEVER, AND TWO SIDEWALK GATES



PHASE III CONSTRUCTION - CHESTER ROAD NORTH OF PAGES DAIRY ROAD
NO PROPOSED WORK

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

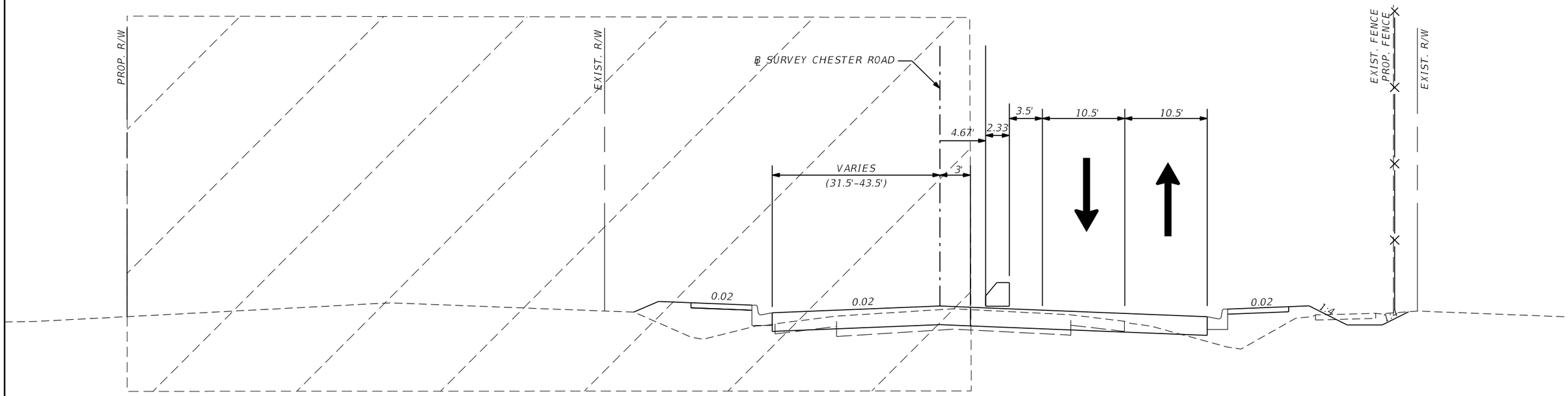
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TRAFFIC CONTROL PLANS
TYPICAL SECTIONS

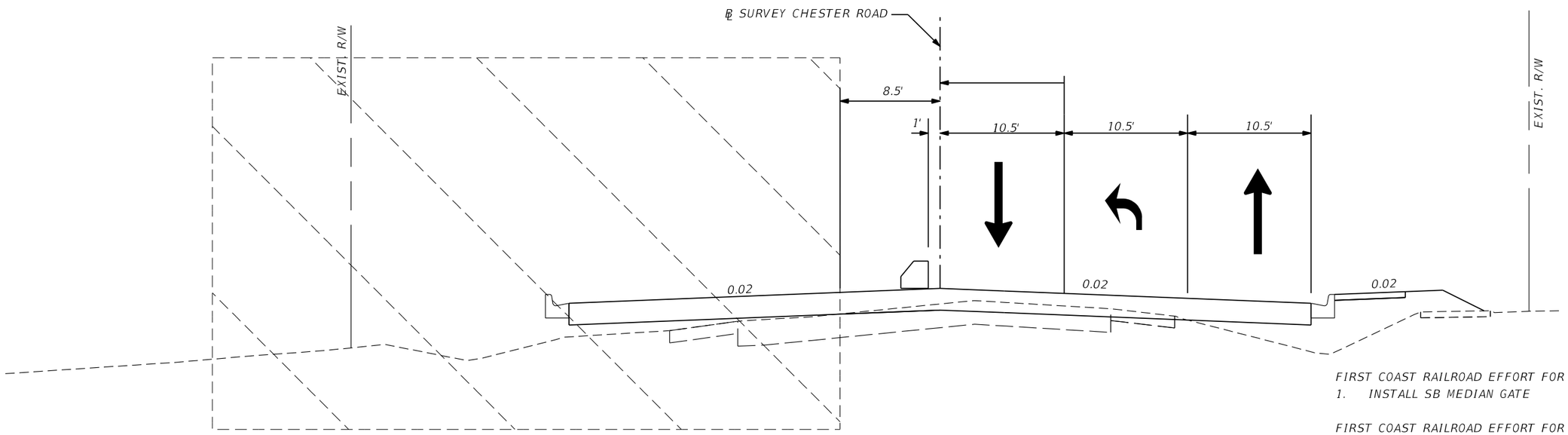
SHEET NO. 123

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PHASE IV CONSTRUCTION - CHESTER ROAD NORTH OF PAGES DAIRY ROAD



PHASE IV CONSTRUCTION - CHESTER ROAD SOUTH OF RAILROAD

FIRST COAST RAILROAD EFFORT FOR PHASE 4:
1. INSTALL SB MEDIAN GATE

FIRST COAST RAILROAD EFFORT FOR PHASE 5:
1. INSTALL NB MEDIAN GATE
2. INSTALL SB MEDIAN GATE
3. INSTALL SB SHORTENED GATE
4. INSTALL NB SHORTENED GATE

REVISIONS			
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Connelly & Wicker Inc.
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Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

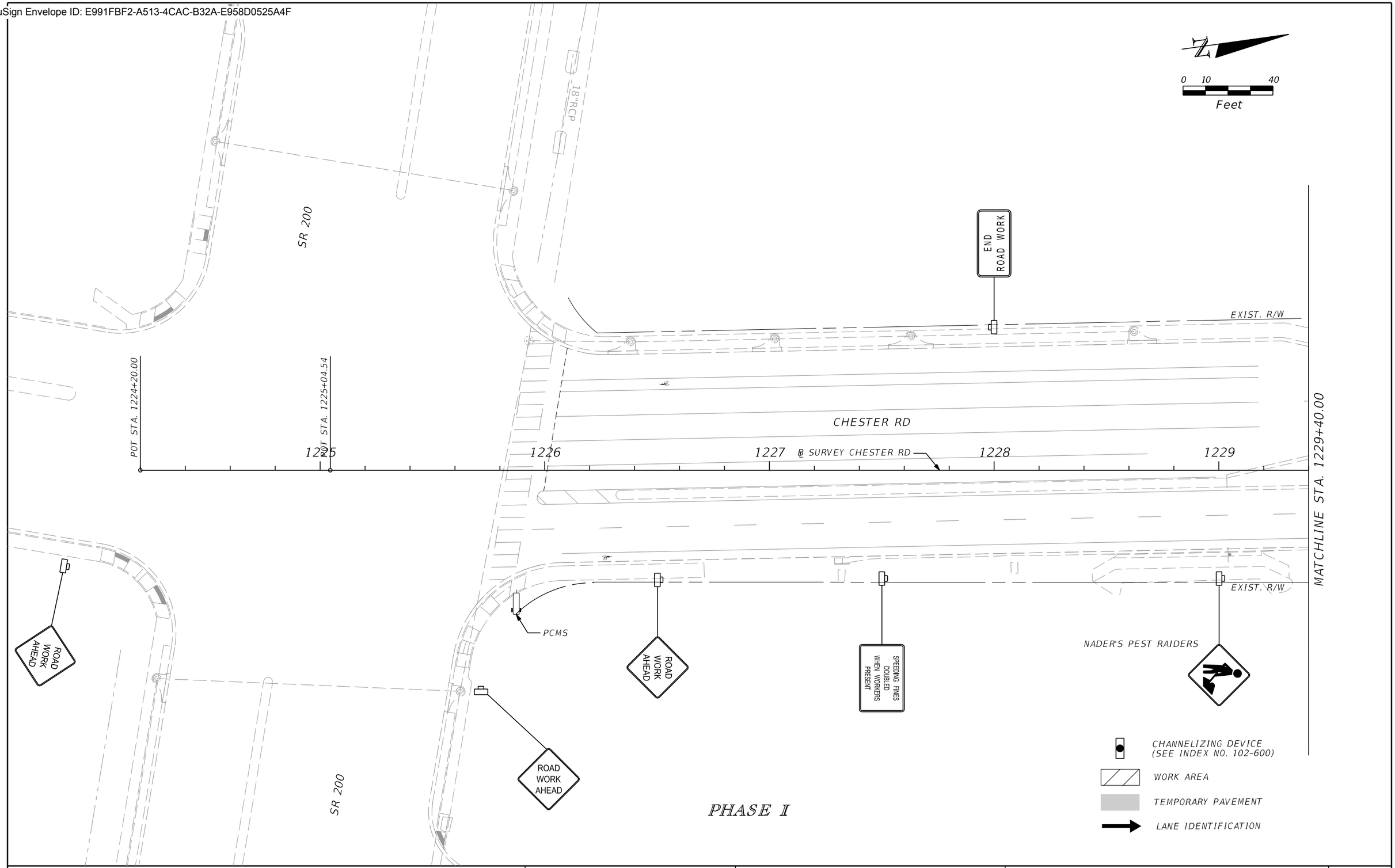
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TRAFFIC CONTROL PLANS
TYPICAL SECTIONS

SHEET NO. 124

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PHASE I

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Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

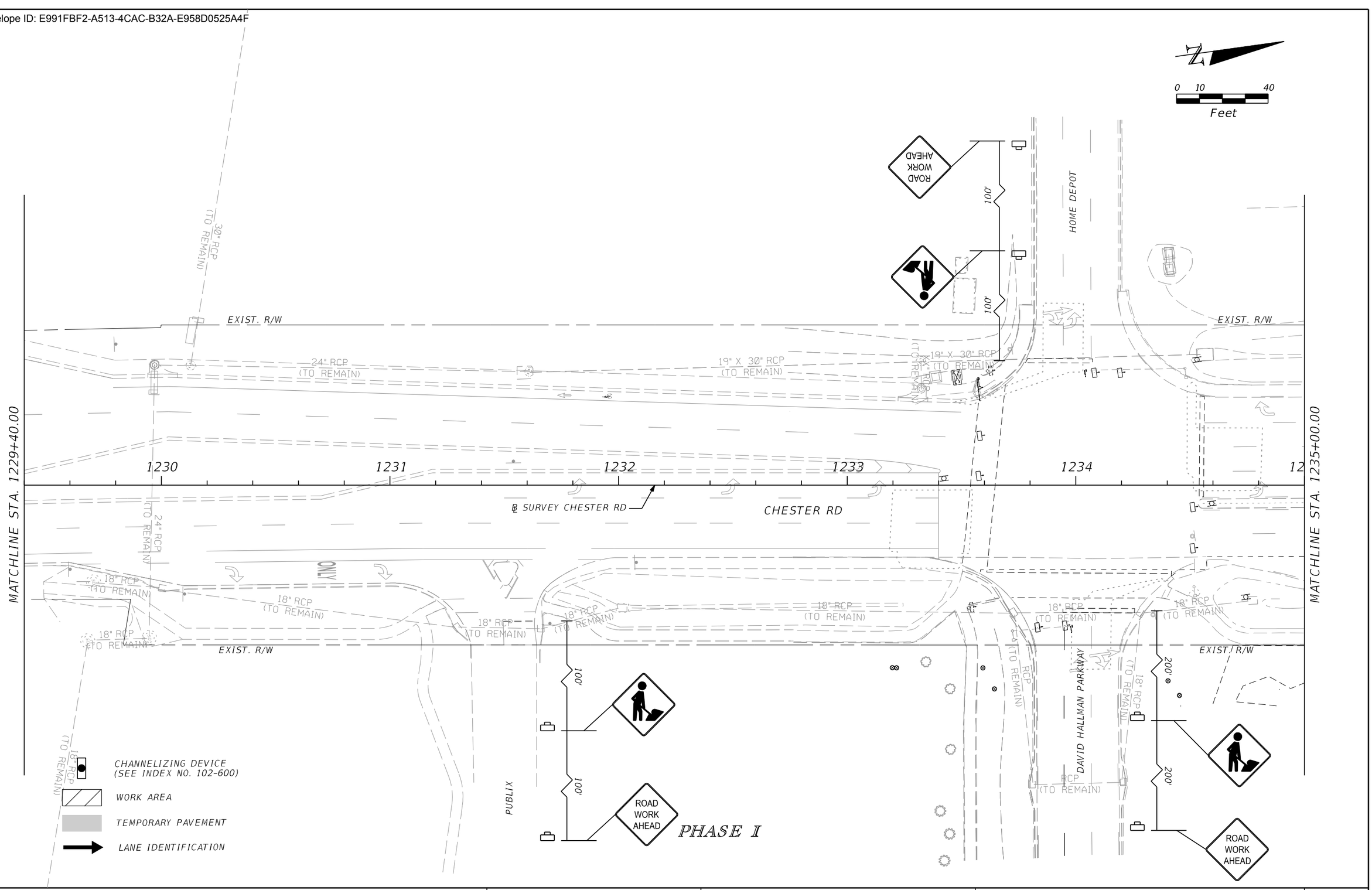
TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 125

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10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
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Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

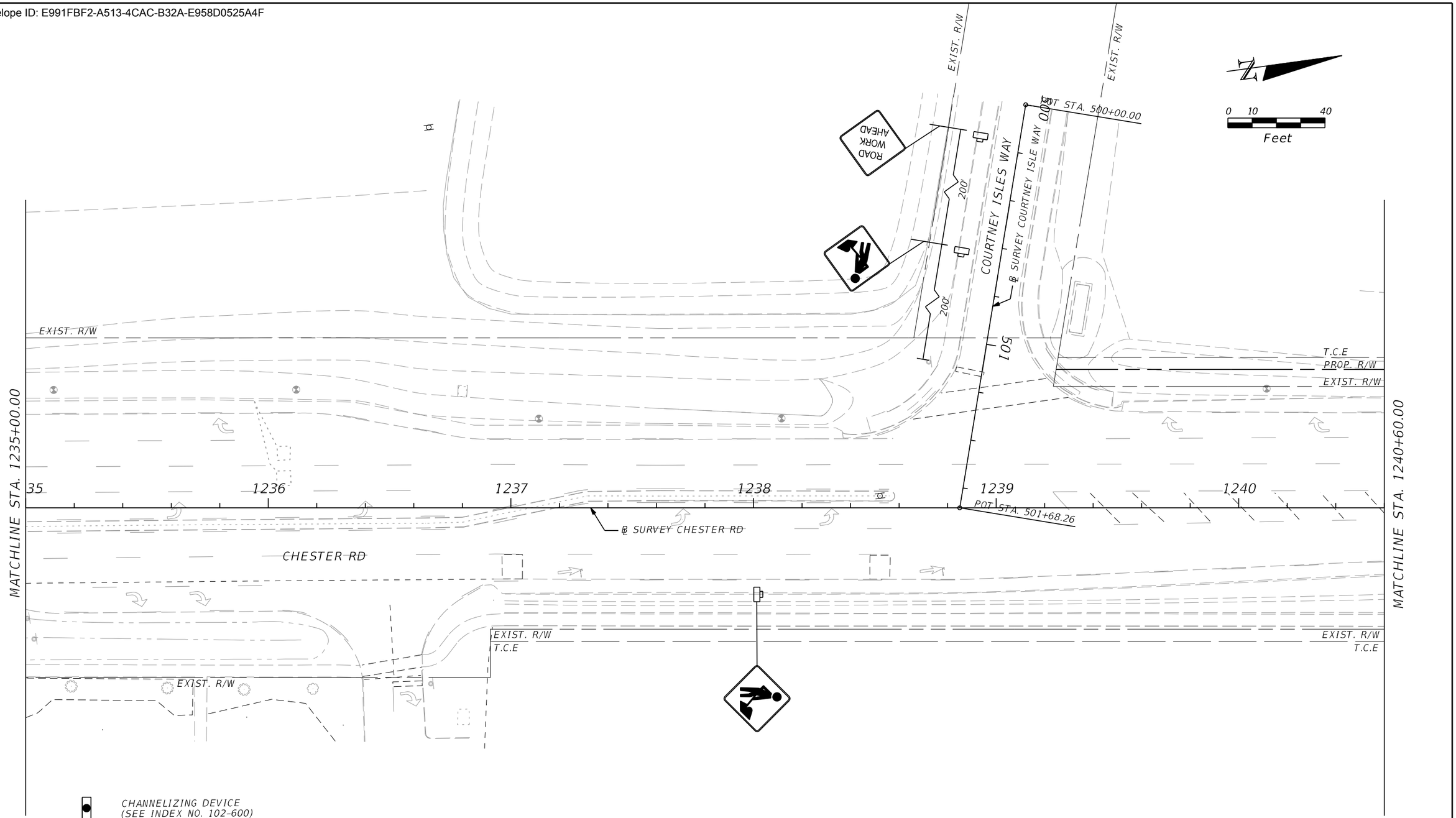
TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 126

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PHASE I

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Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

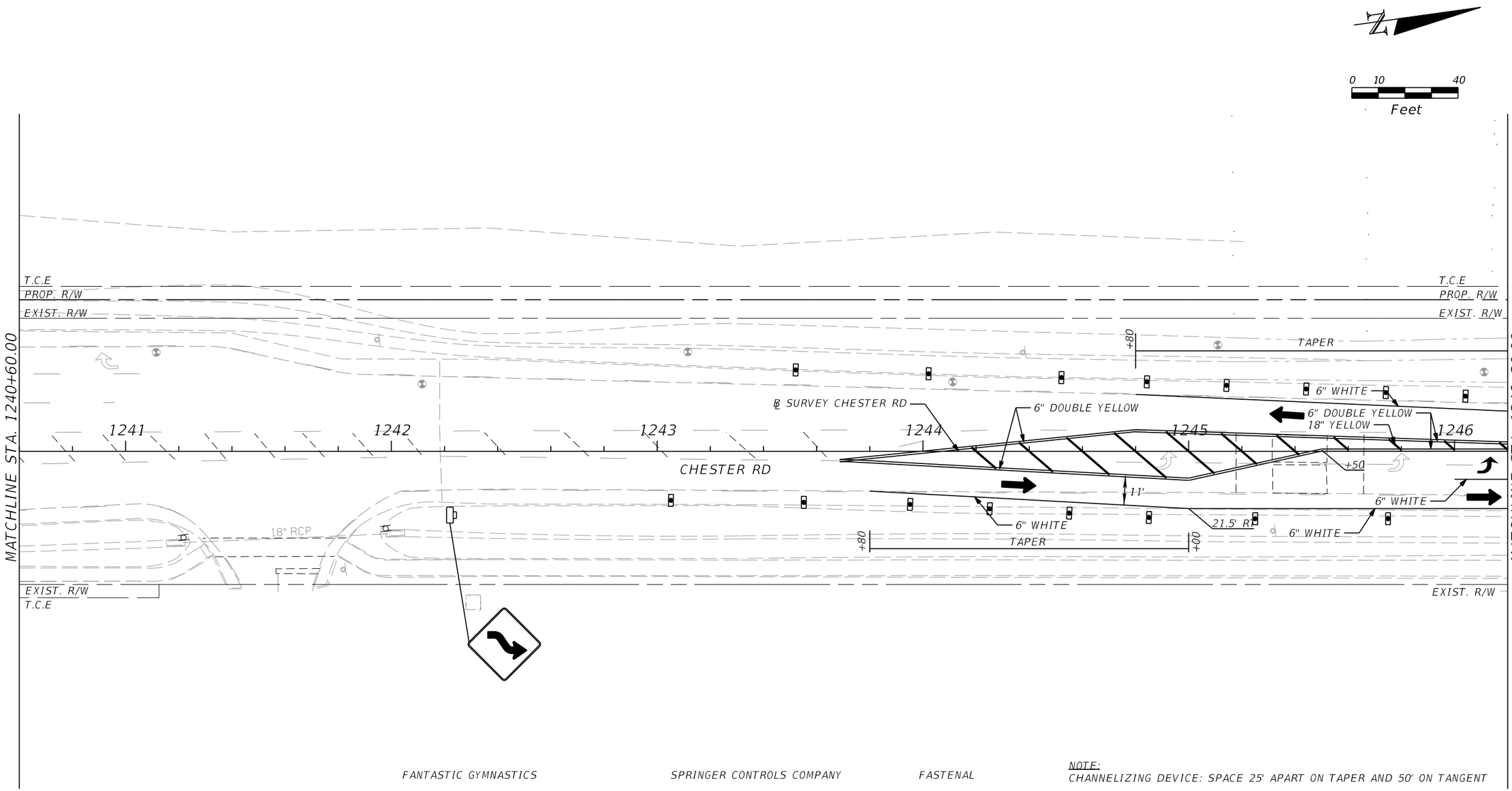
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 127

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NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

CHANNELIZING DEVICE
(SEE INDEX NO. 102-600)

WORK AREA

TEMPORARY PAVEMENT

LANE IDENTIFICATION

PHASE I

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

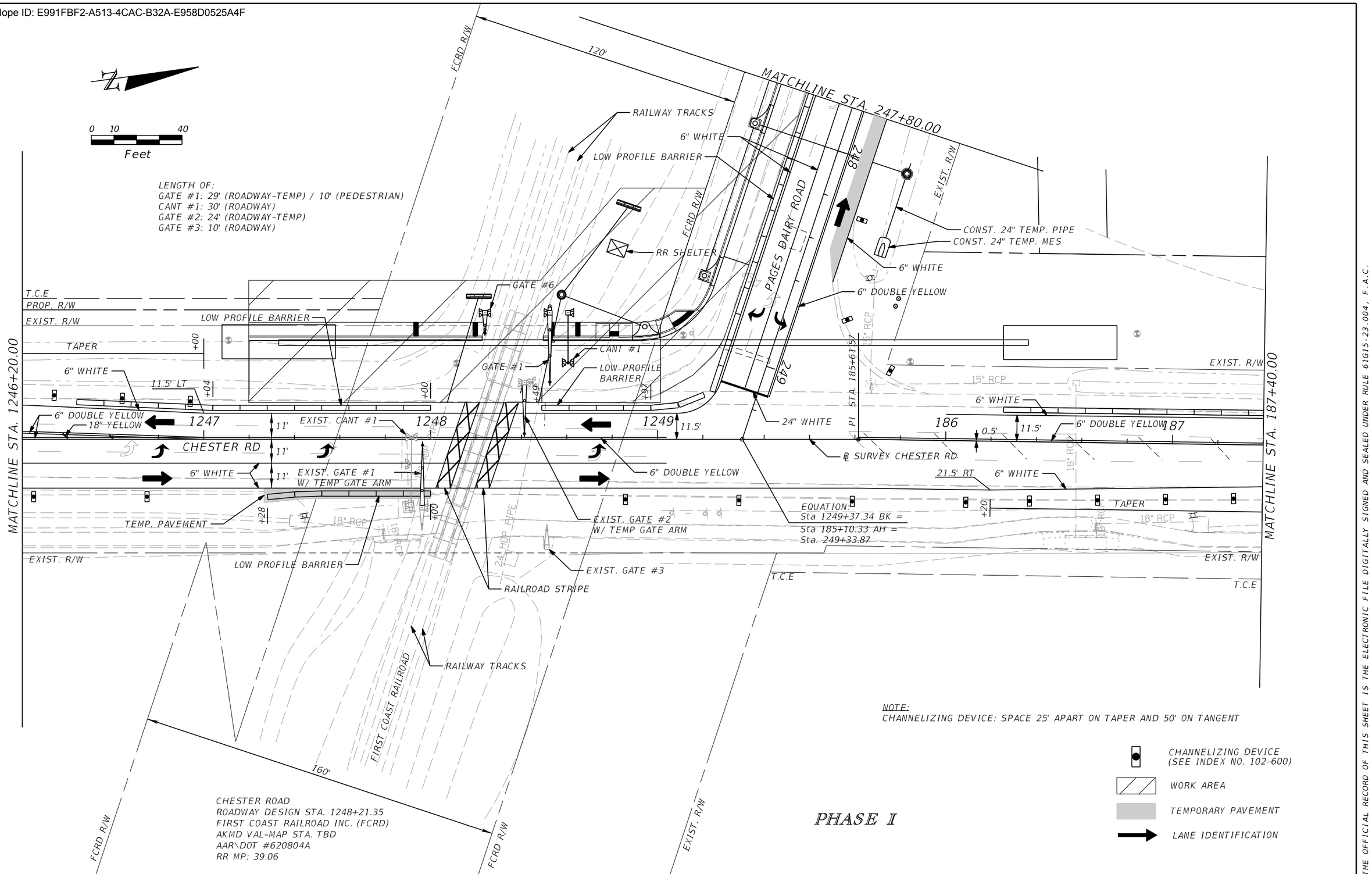
TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 128

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NASSAU COUNTY ENGINEERING

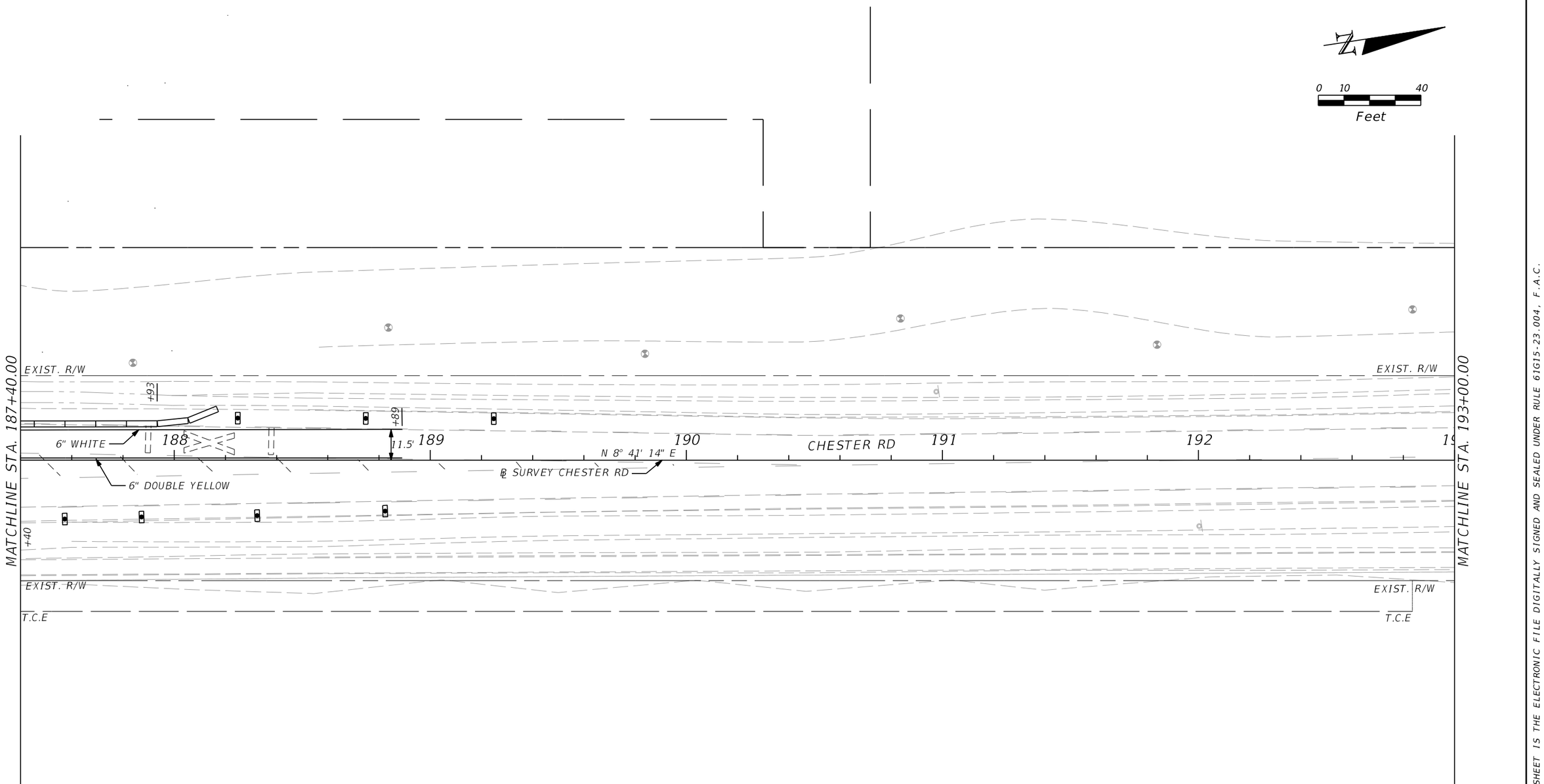
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 129

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CHANNELIZING DEVICE
(SEE INDEX NO. 102-600)

WORK AREA

TEMPORARY PAVEMENT

LANE IDENTIFICATION

NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

PHASE I

REVISIONS			
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Jacksonville, FL 32246
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NASSAU COUNTY ENGINEERING

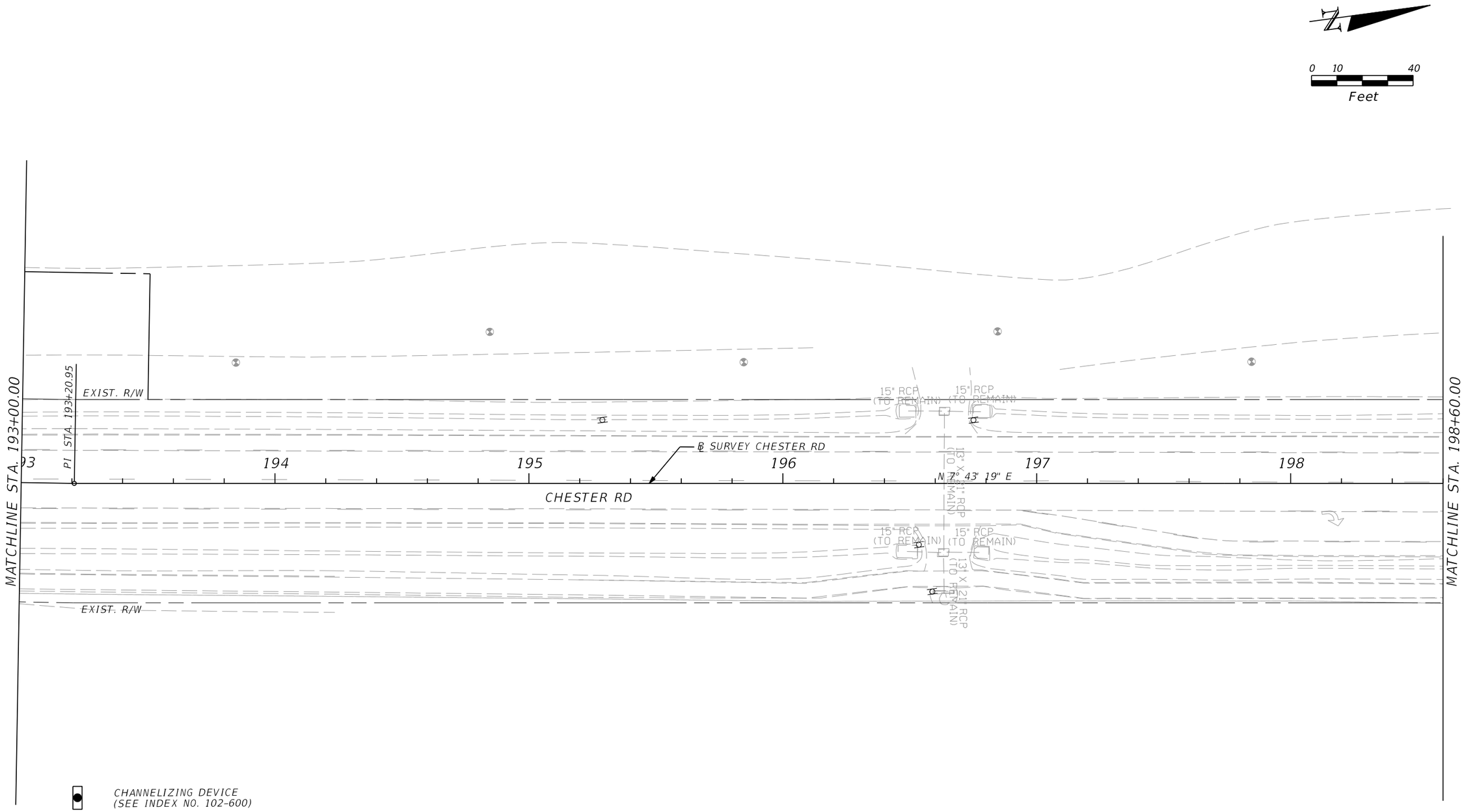
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 130

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CHANNELIZING DEVICE
(SEE INDEX NO. 102-600)

WORK AREA

TEMPORARY PAVEMENT

LANE IDENTIFICATION

PHASE I

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

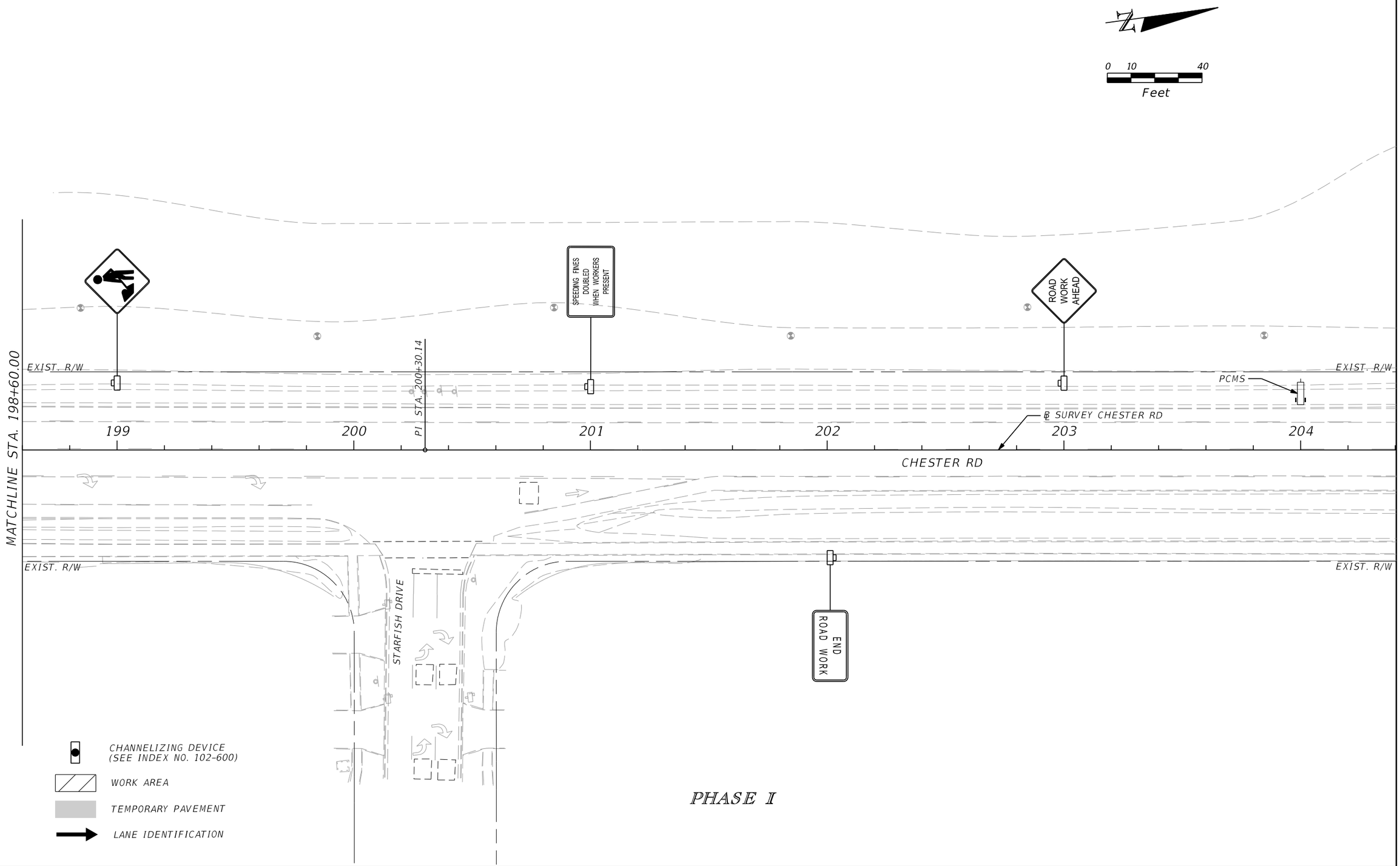
TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 131

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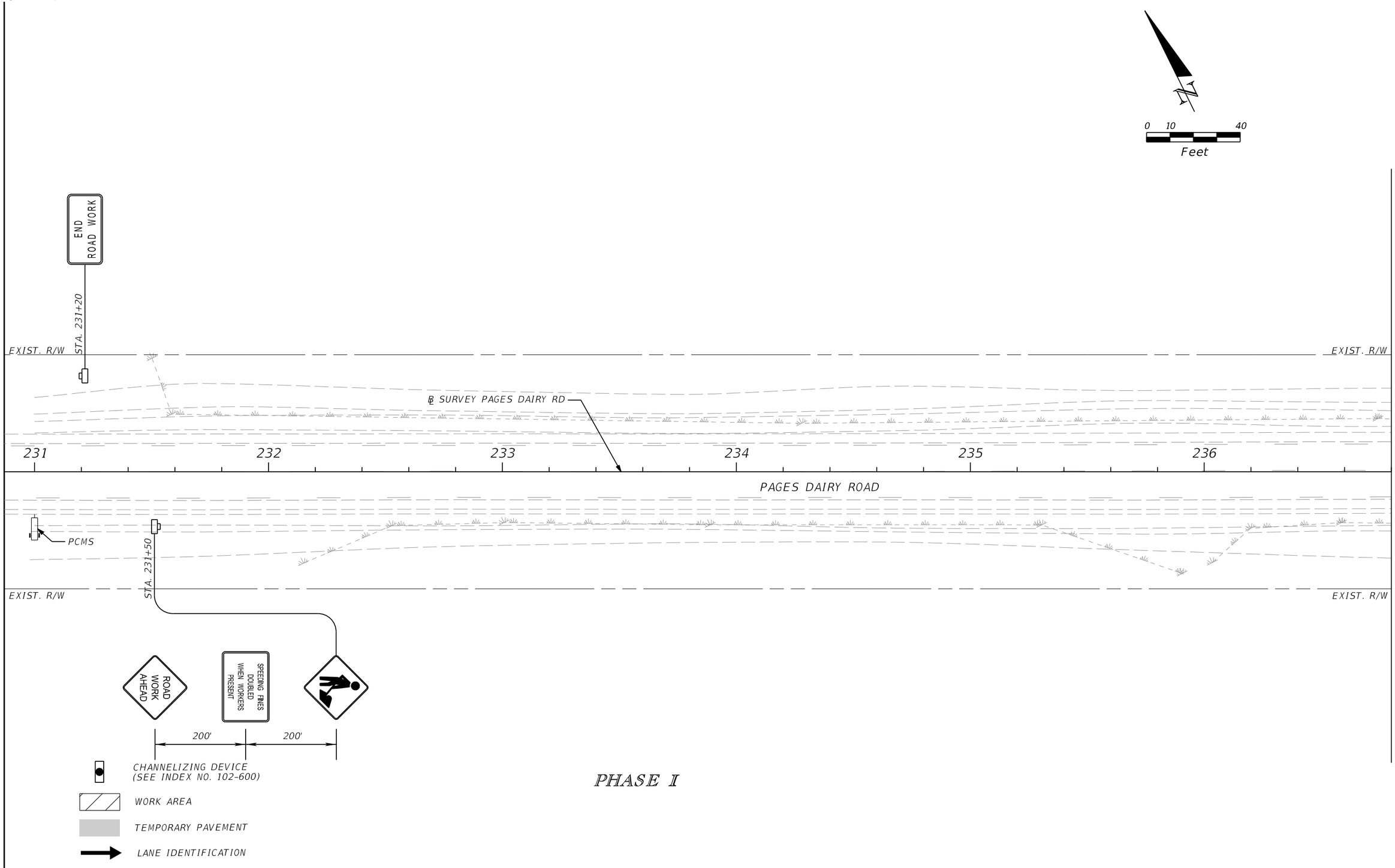
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 132

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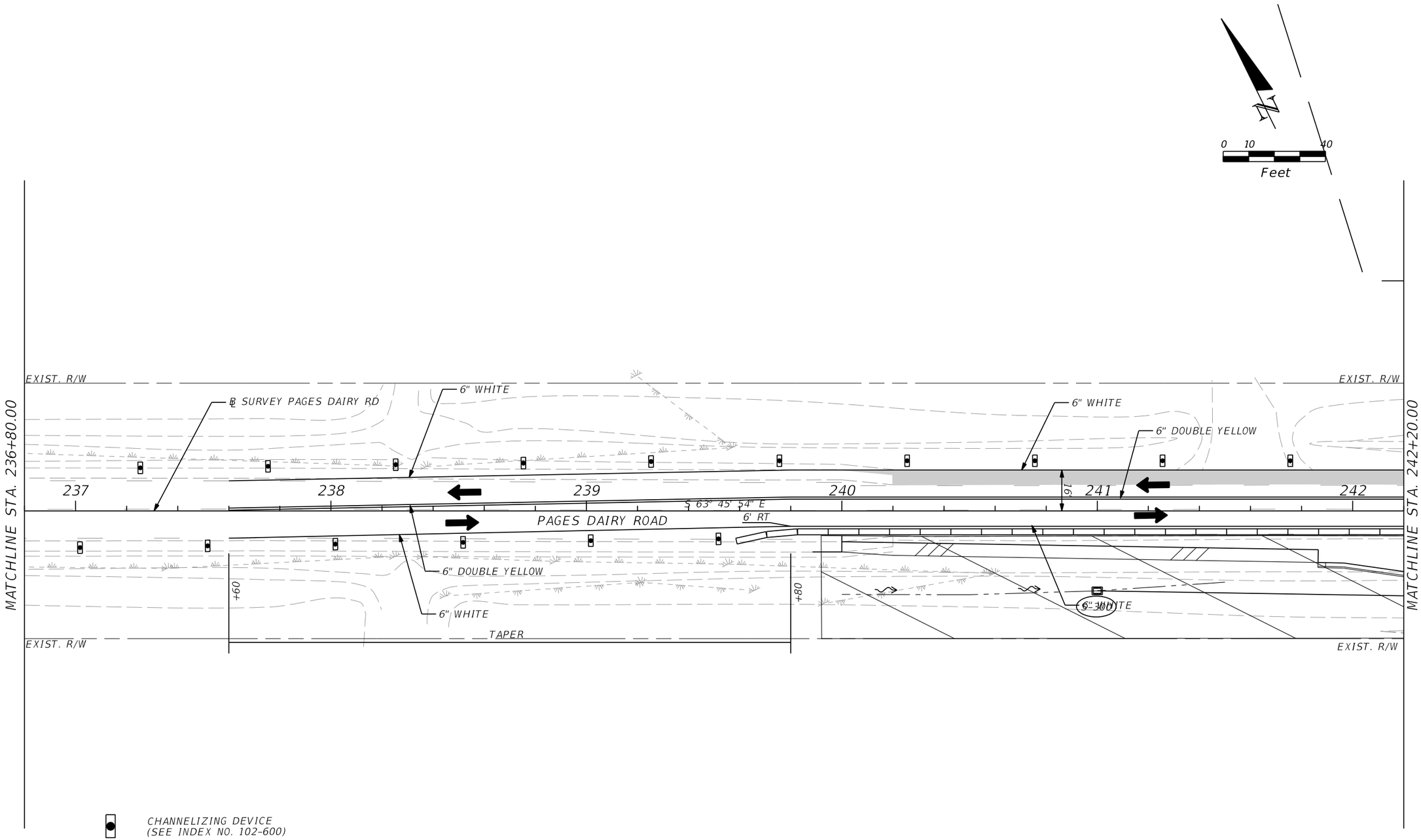
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 133

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CHANNELIZING DEVICE (SEE INDEX NO. 102-600)

WORK AREA

TEMPORARY PAVEMENT

LANE IDENTIFICATION

NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

PHASE I

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Jacksonville, FL 32246
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NASSAU COUNTY ENGINEERING

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	NASSAU	

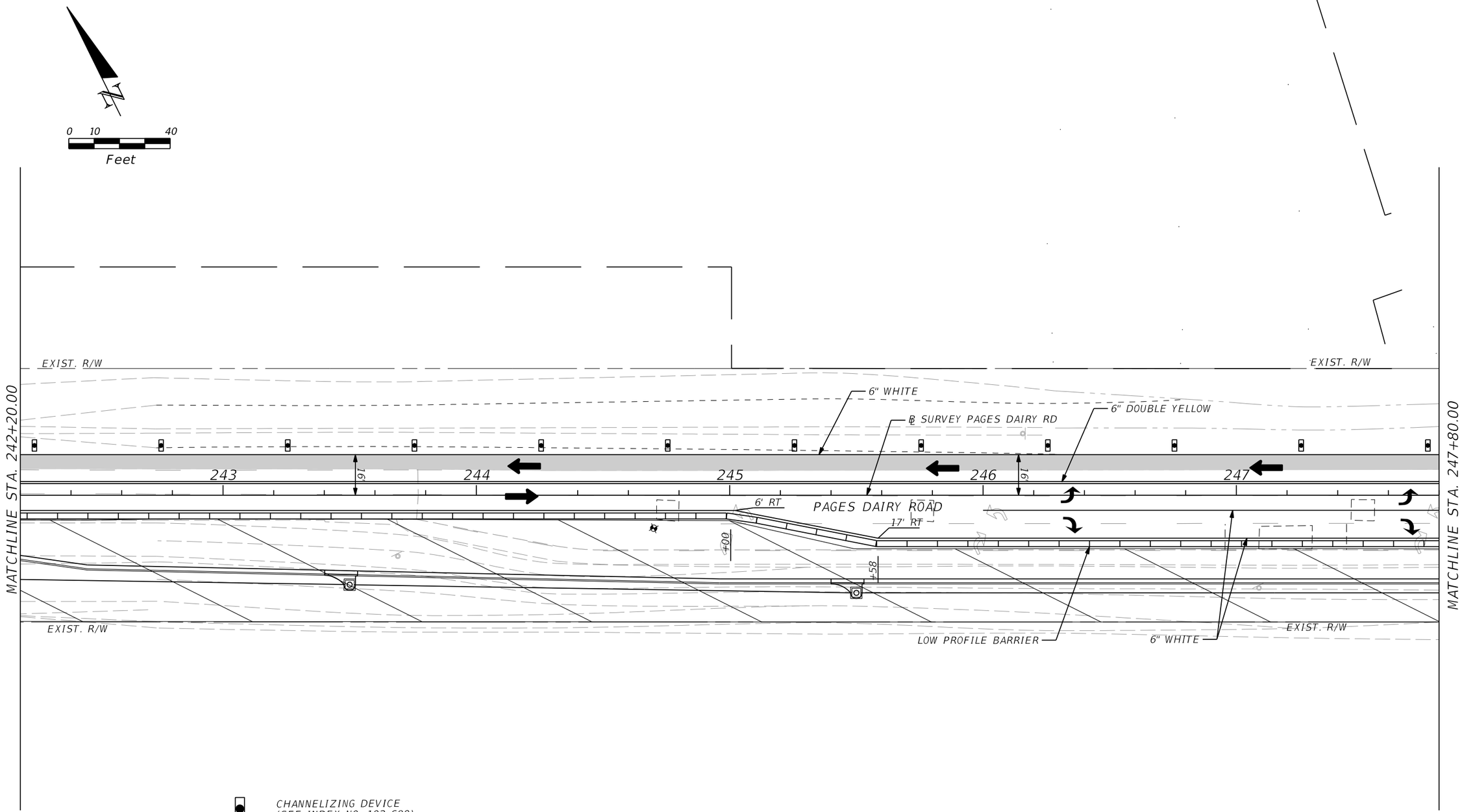
TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 134

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CHANNELIZING DEVICE
(SEE INDEX NO. 102-600)

WORK AREA

TEMPORARY PAVEMENT

LANE IDENTIFICATION

NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

PHASE I

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

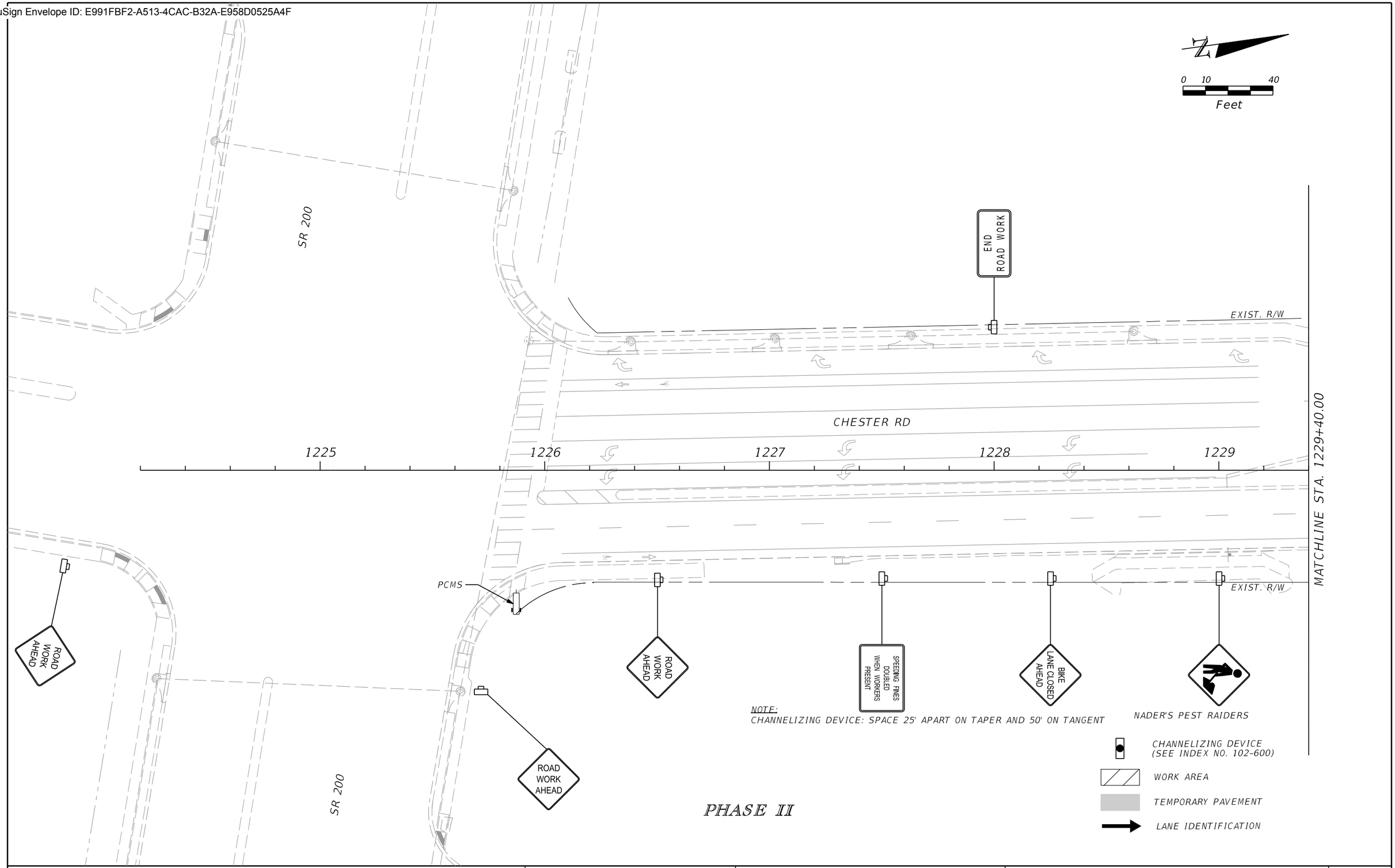
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 135

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PHASE II

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

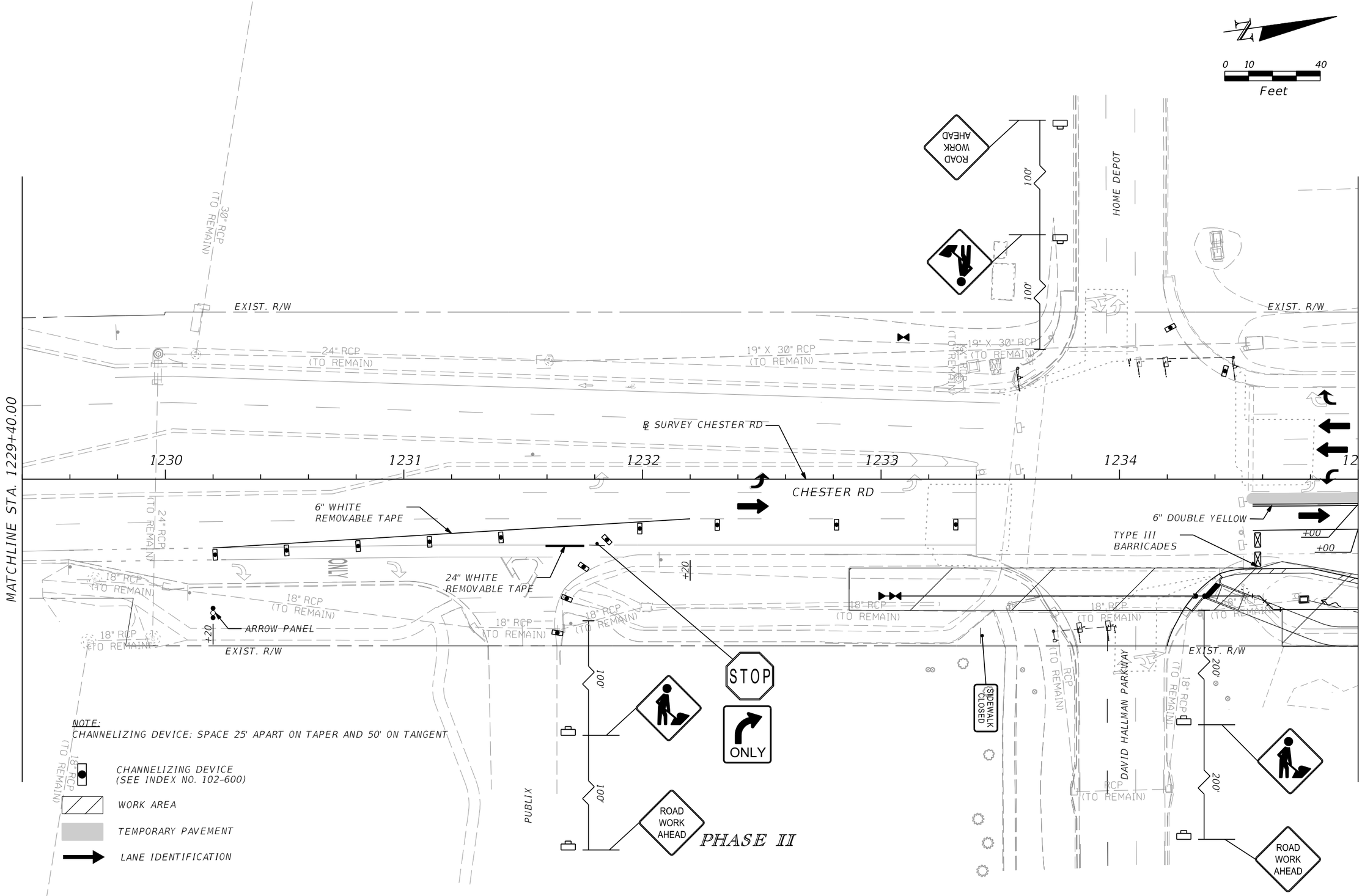
TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 136

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
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FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

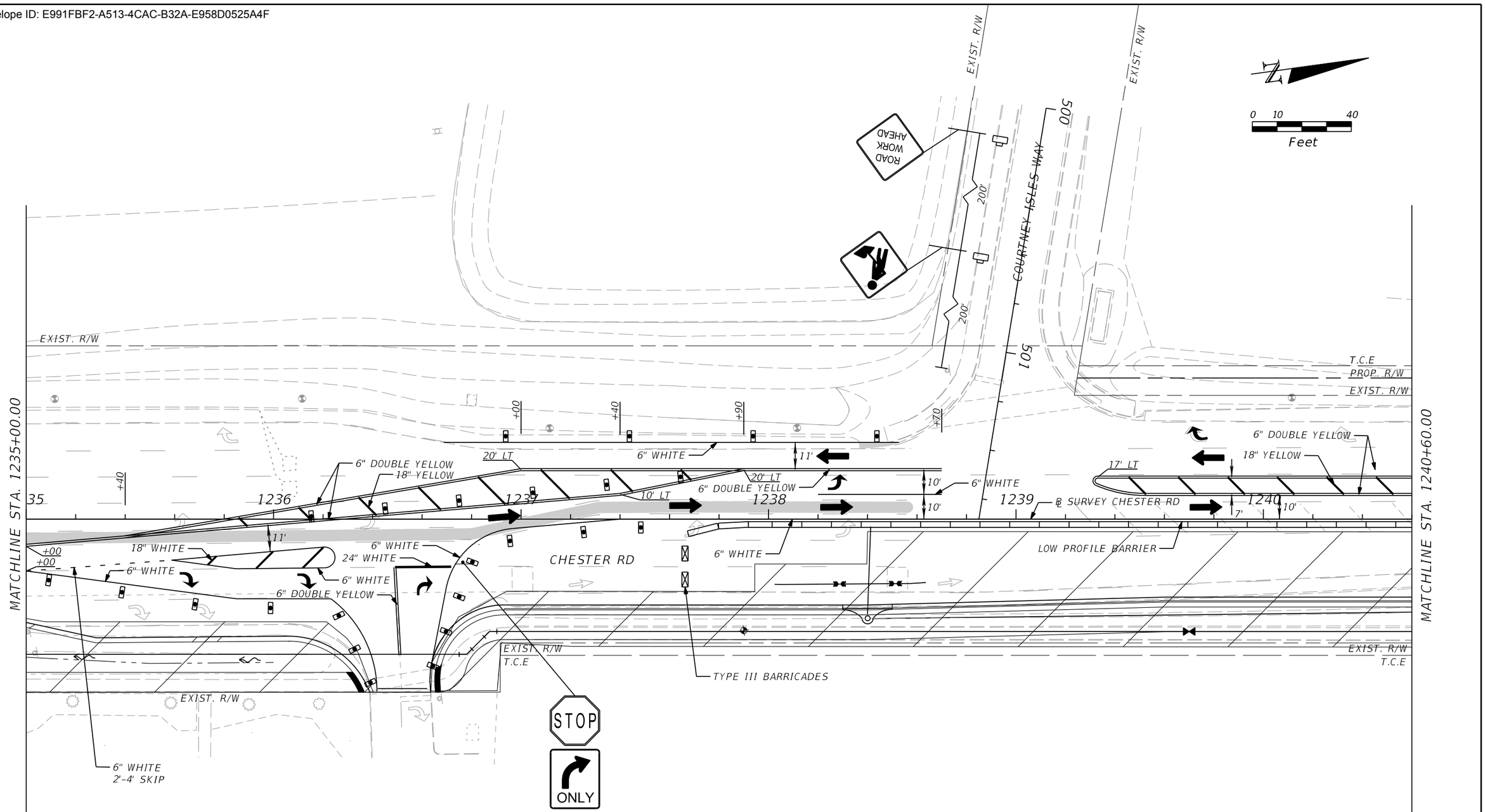
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 137

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

PHASE II

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

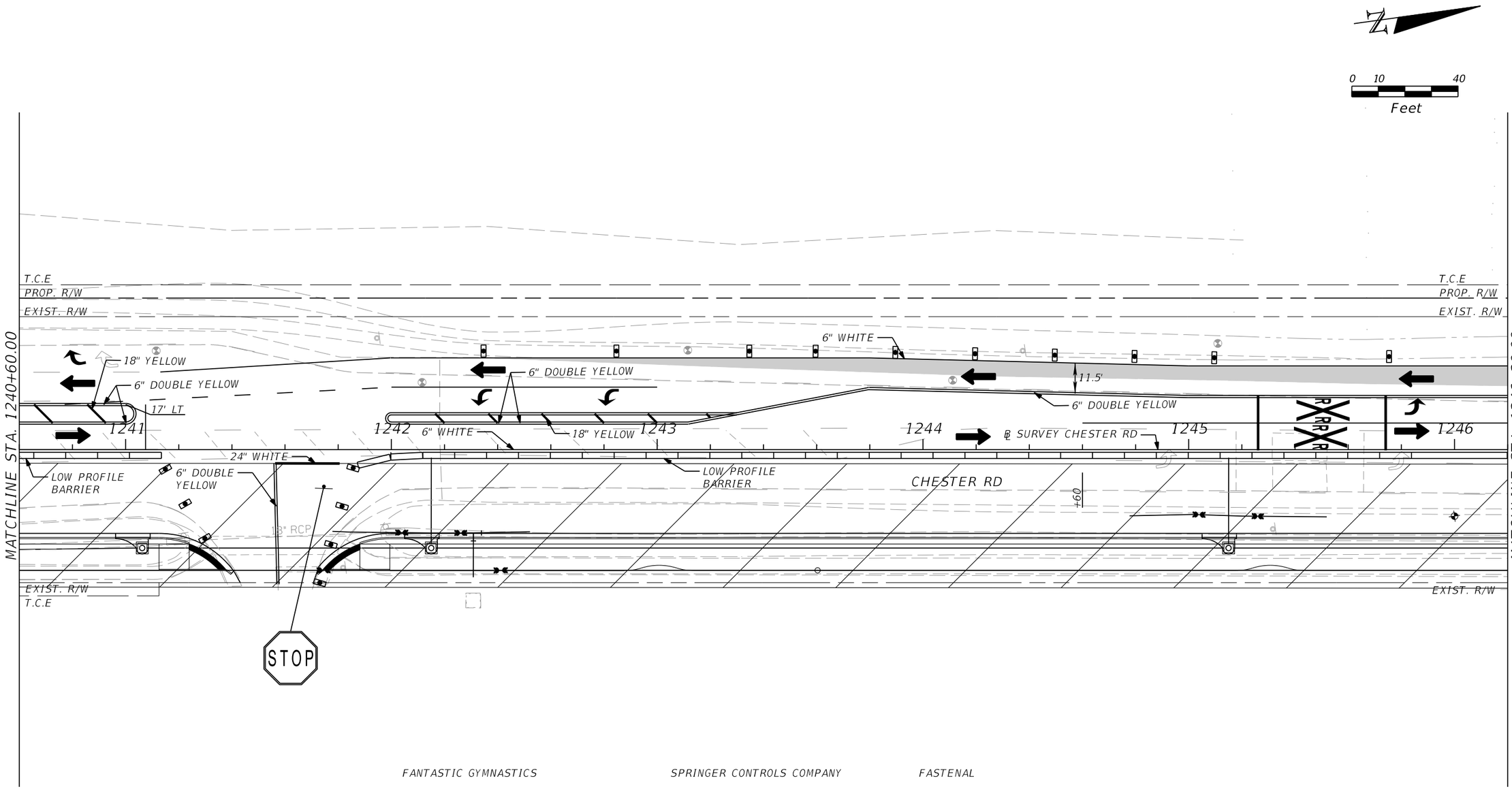
TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 138

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CHANNELIZING DEVICE (SEE INDEX NO. 102-600)

WORK AREA

TEMPORARY PAVEMENT

LANE IDENTIFICATION

NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

PHASE II

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

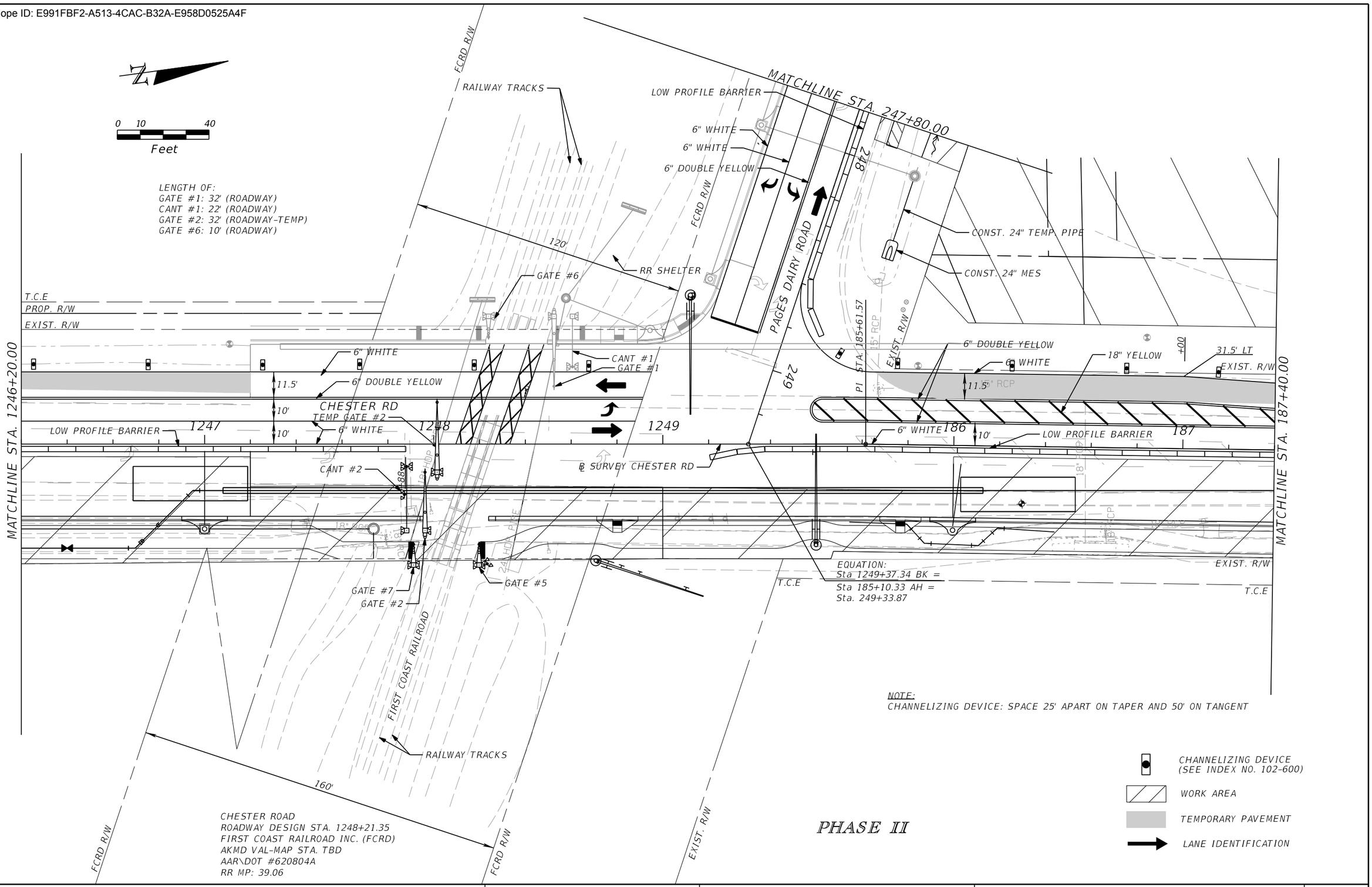
TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 139

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DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

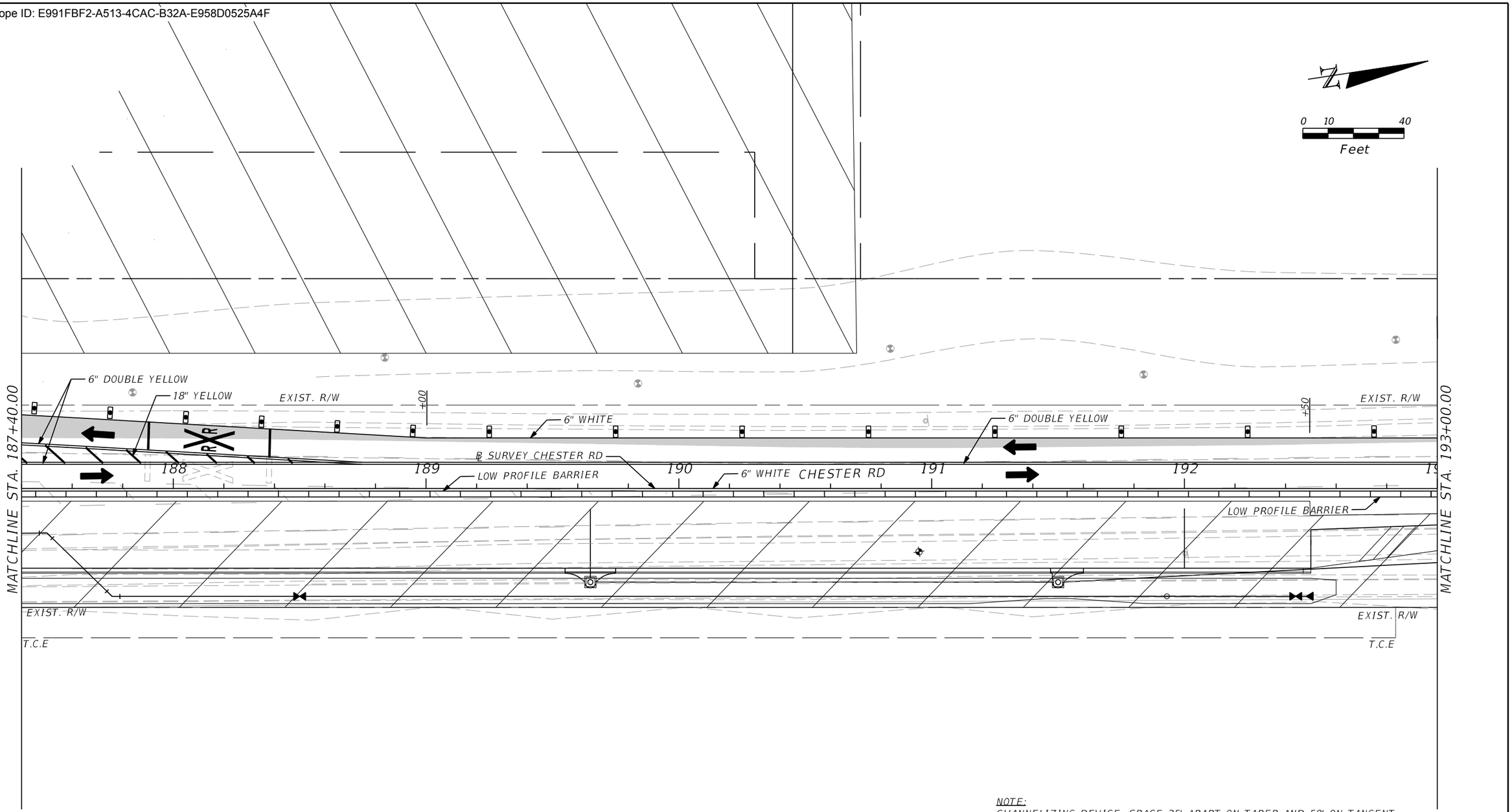
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 140

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

CHANNELIZING DEVICE
(SEE INDEX NO. 102-600)

WORK AREA

TEMPORARY PAVEMENT

LANE IDENTIFICATION

PHASE II

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

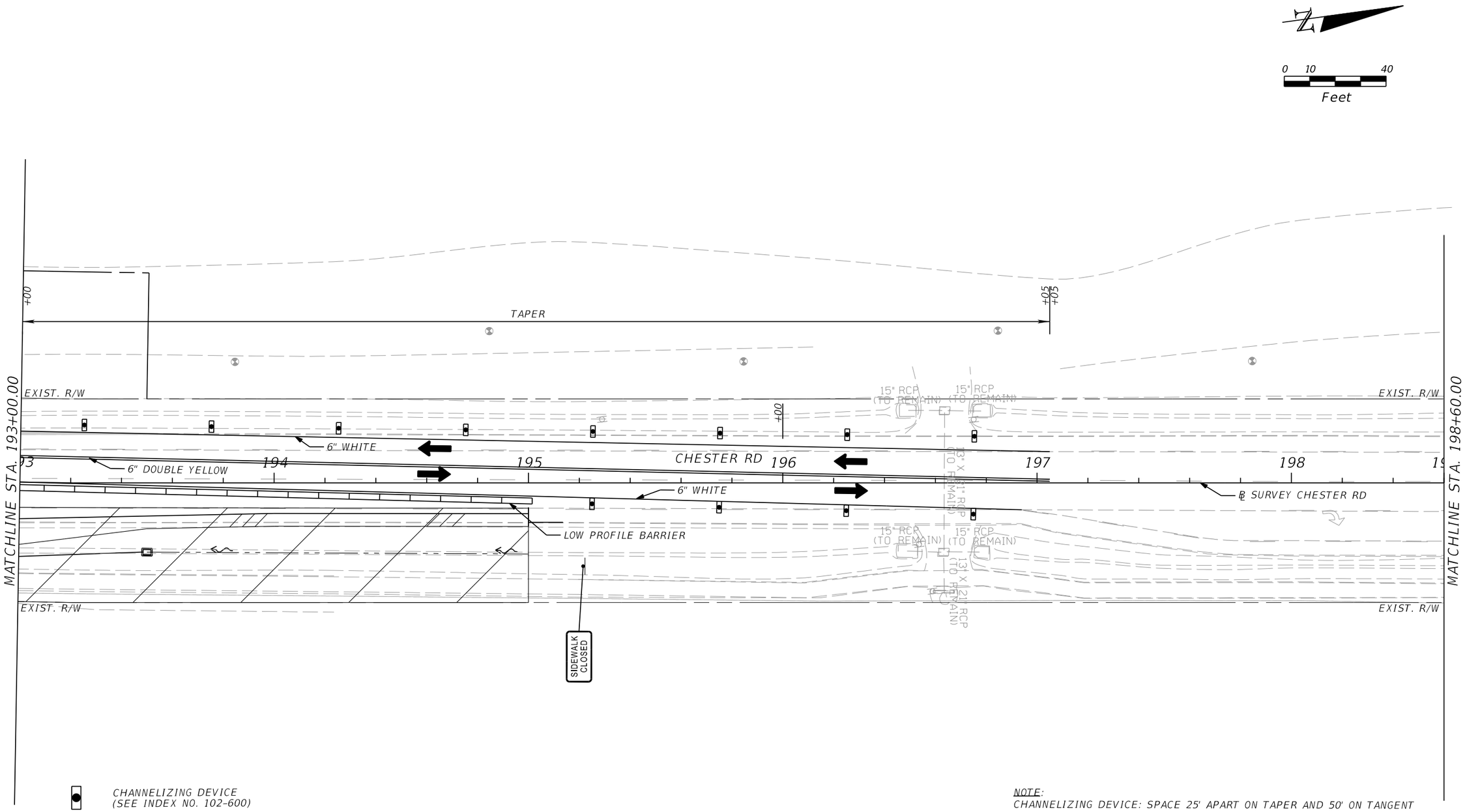
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 141

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



CHANNELIZING DEVICE (SEE INDEX NO. 102-600)

WORK AREA

TEMPORARY PAVEMENT

LANE IDENTIFICATION

NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

PHASE II

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
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FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

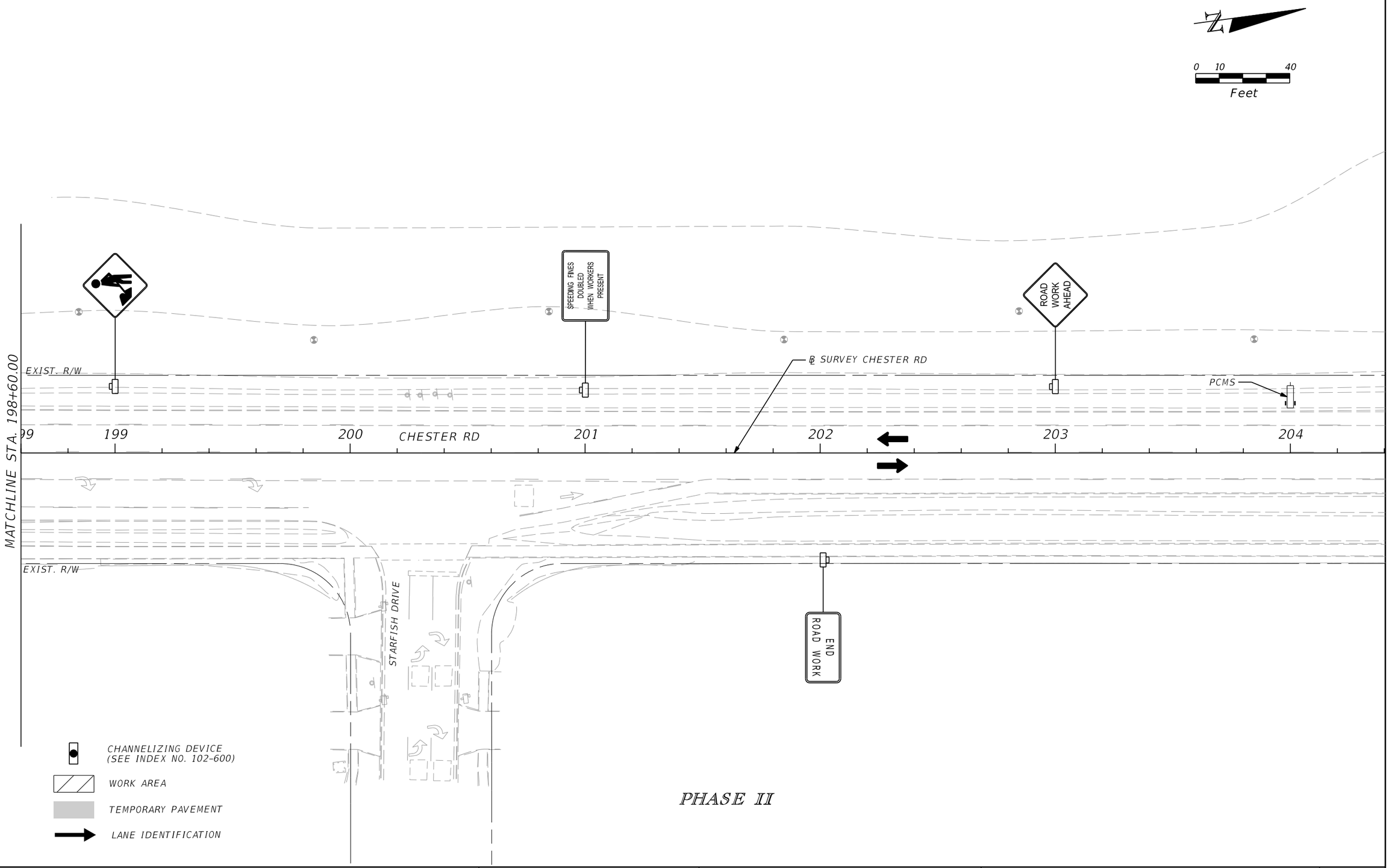
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 142

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PHASE II

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FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

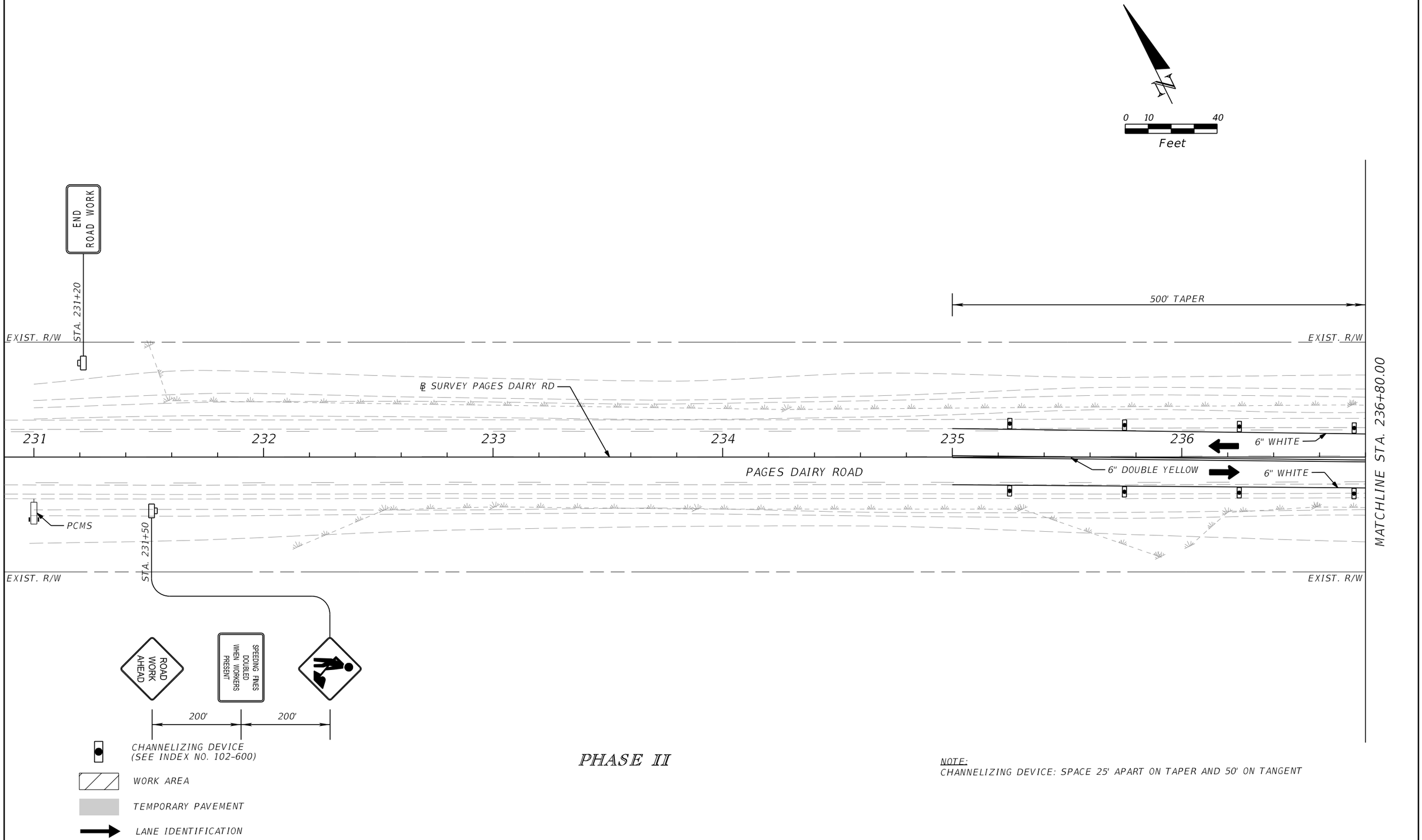
TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 143

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PHASE II

NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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NASSAU COUNTY ENGINEERING

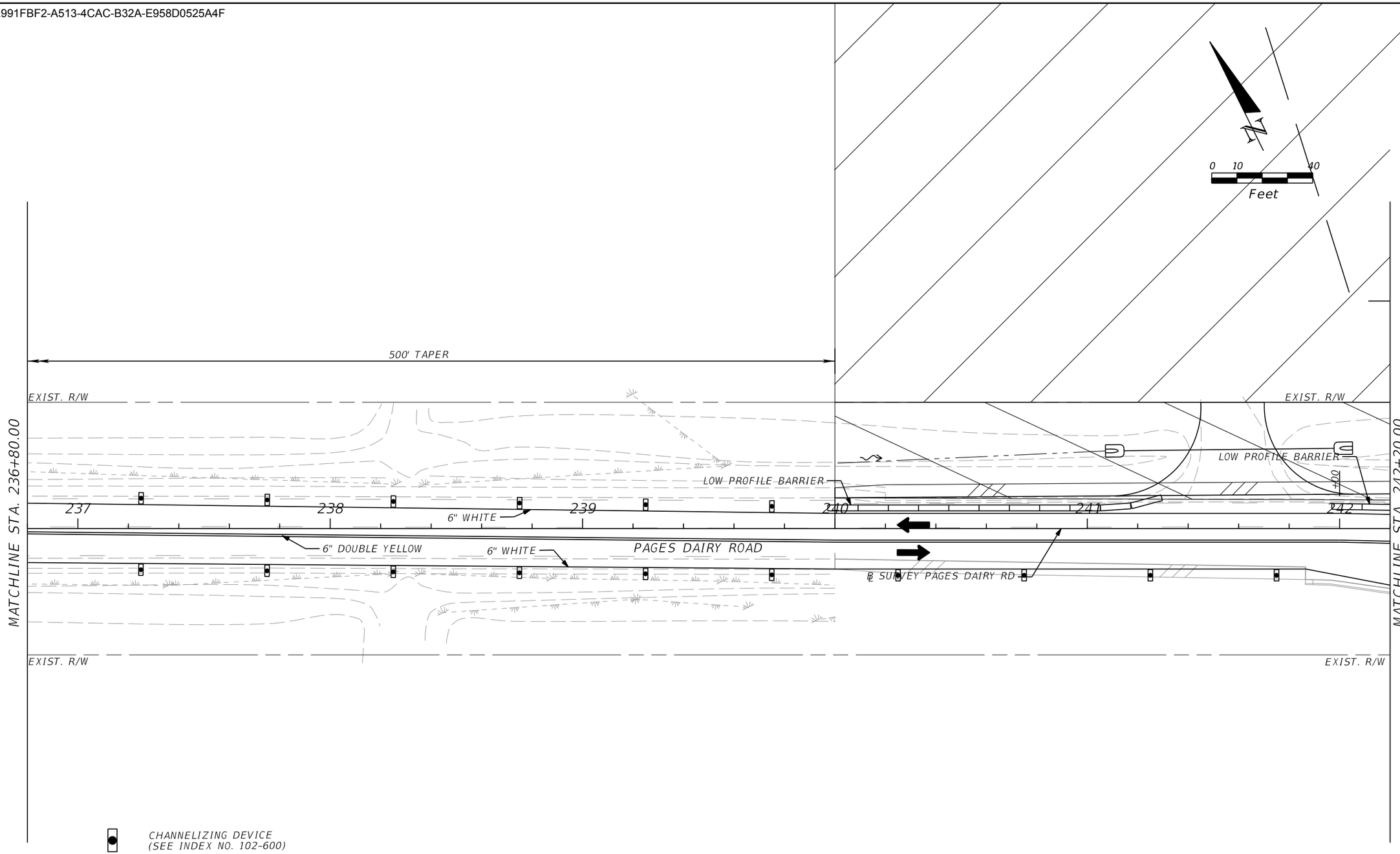
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 144

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CHANNELIZING DEVICE
(SEE INDEX NO. 102-600)

WORK AREA

TEMPORARY PAVEMENT

LANE IDENTIFICATION

NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

PHASE II

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

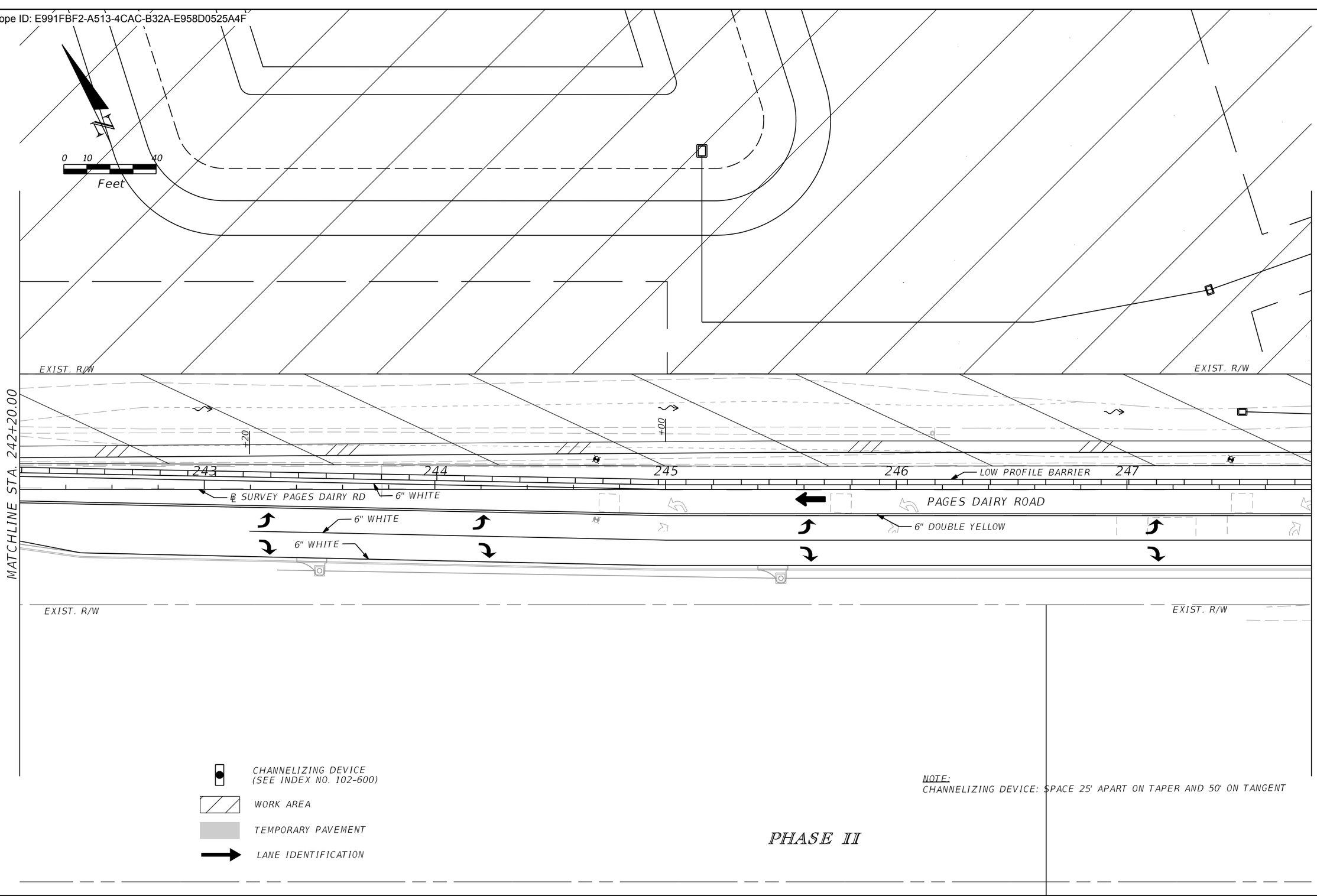
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 145

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



CHANNELIZING DEVICE
(SEE INDEX NO. 102-600)

WORK AREA

TEMPORARY PAVEMENT

LANE IDENTIFICATION

NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

PHASE II

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

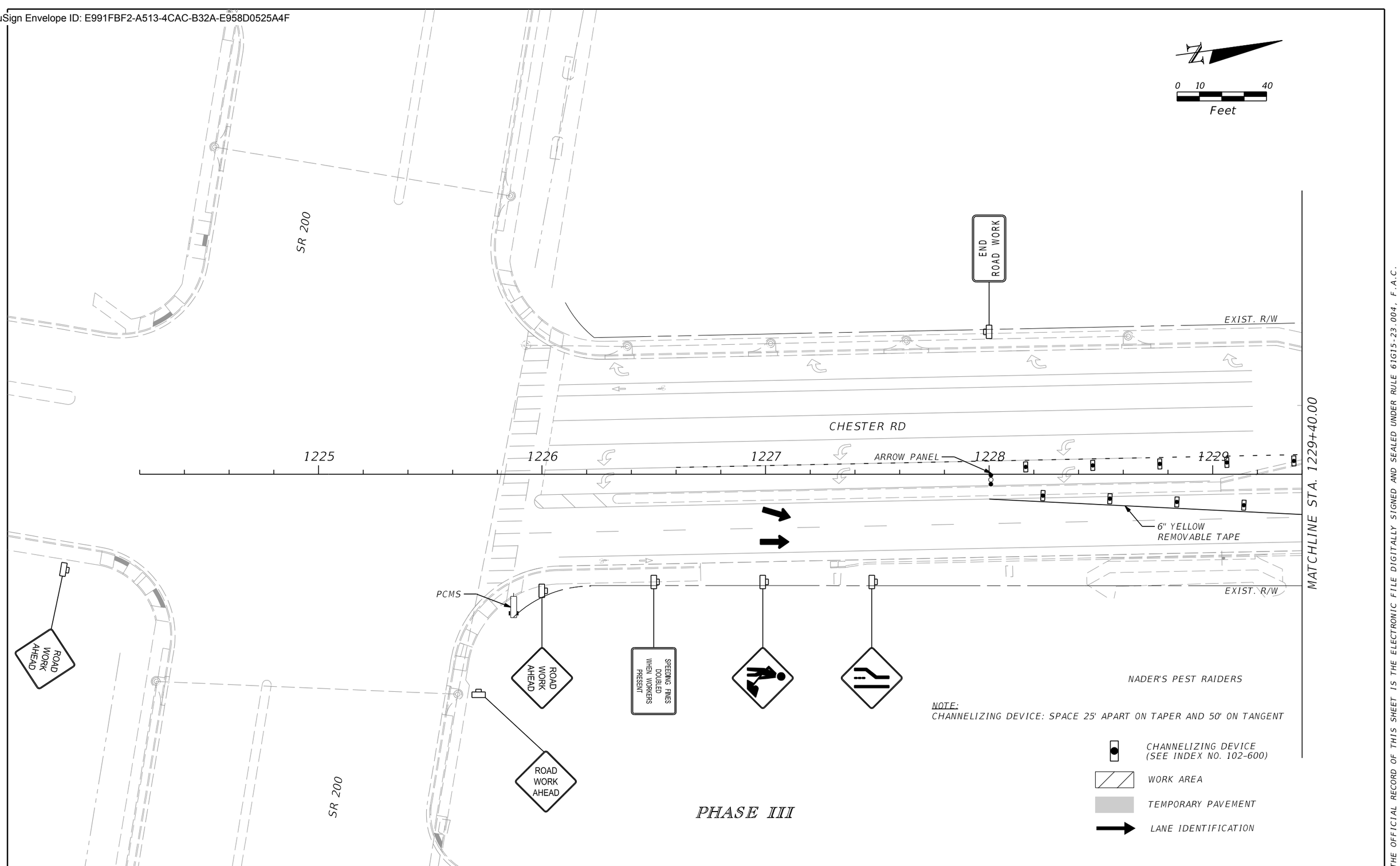
TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 146

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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Certification of Authorization No. 3650

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FL P.E. No. 73903

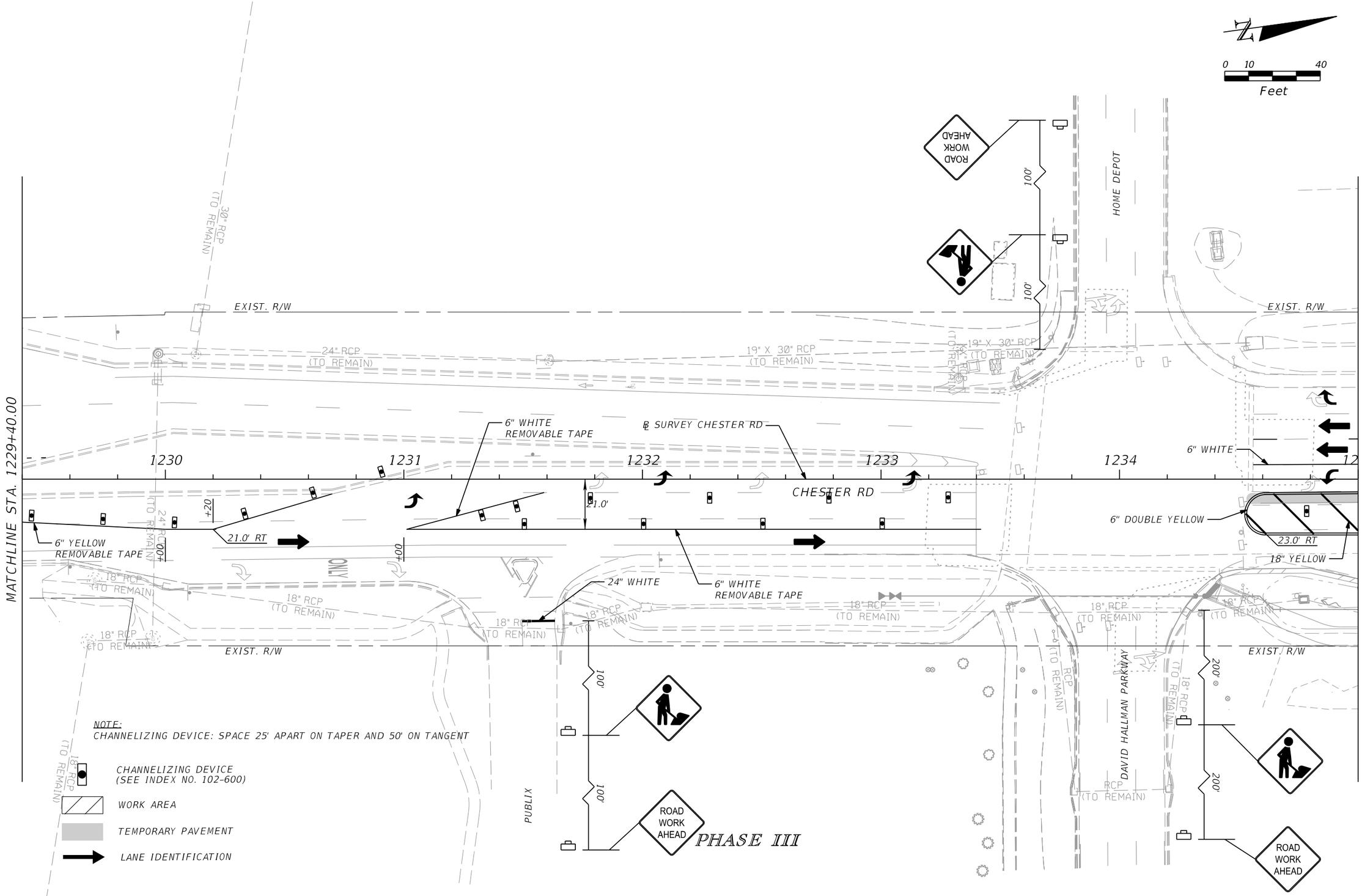
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 147

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



REVISIONS			
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NASSAU COUNTY ENGINEERING

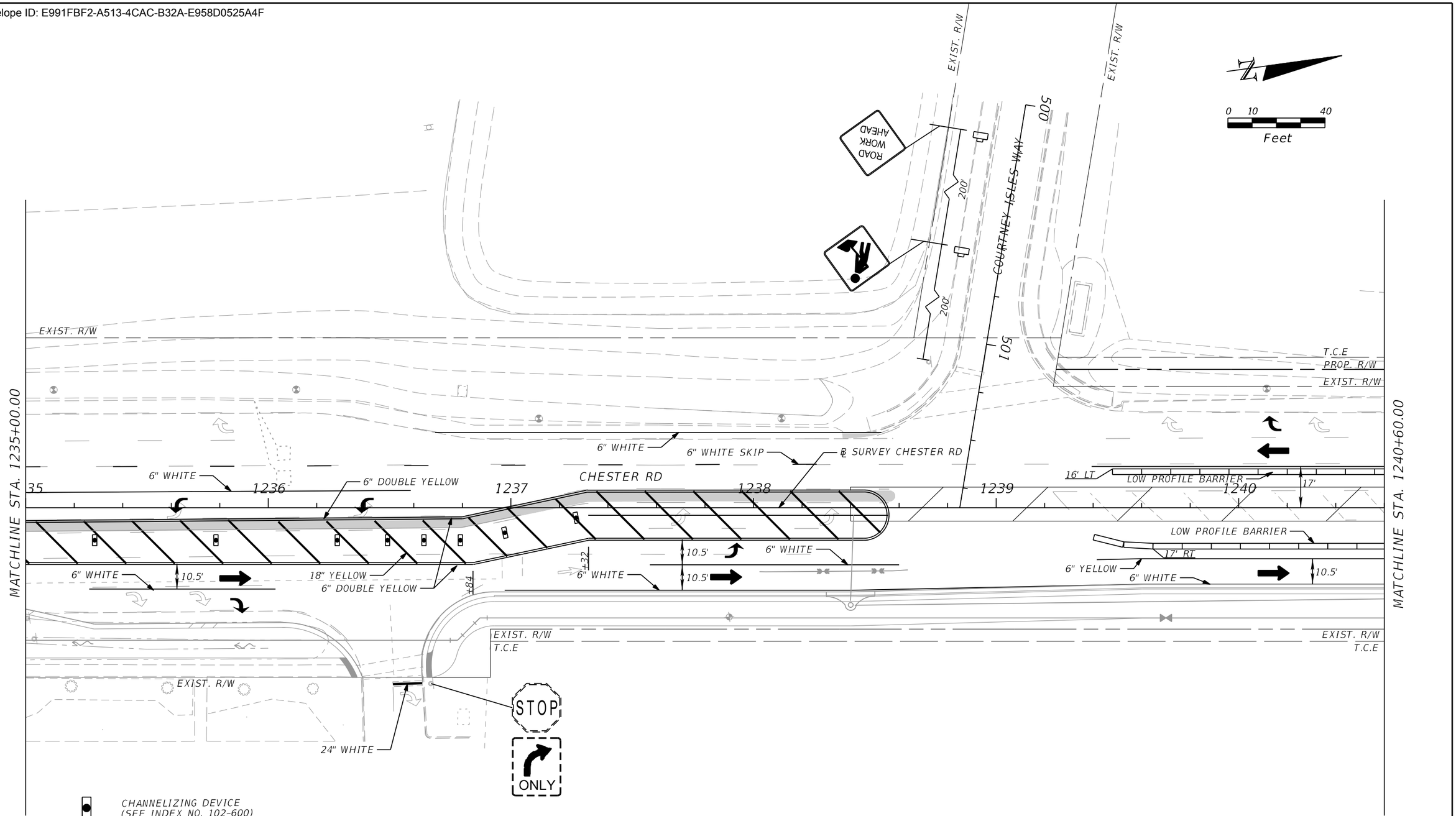
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 148

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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GATOR'S DOCKSIDE

PHASE III

NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
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FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

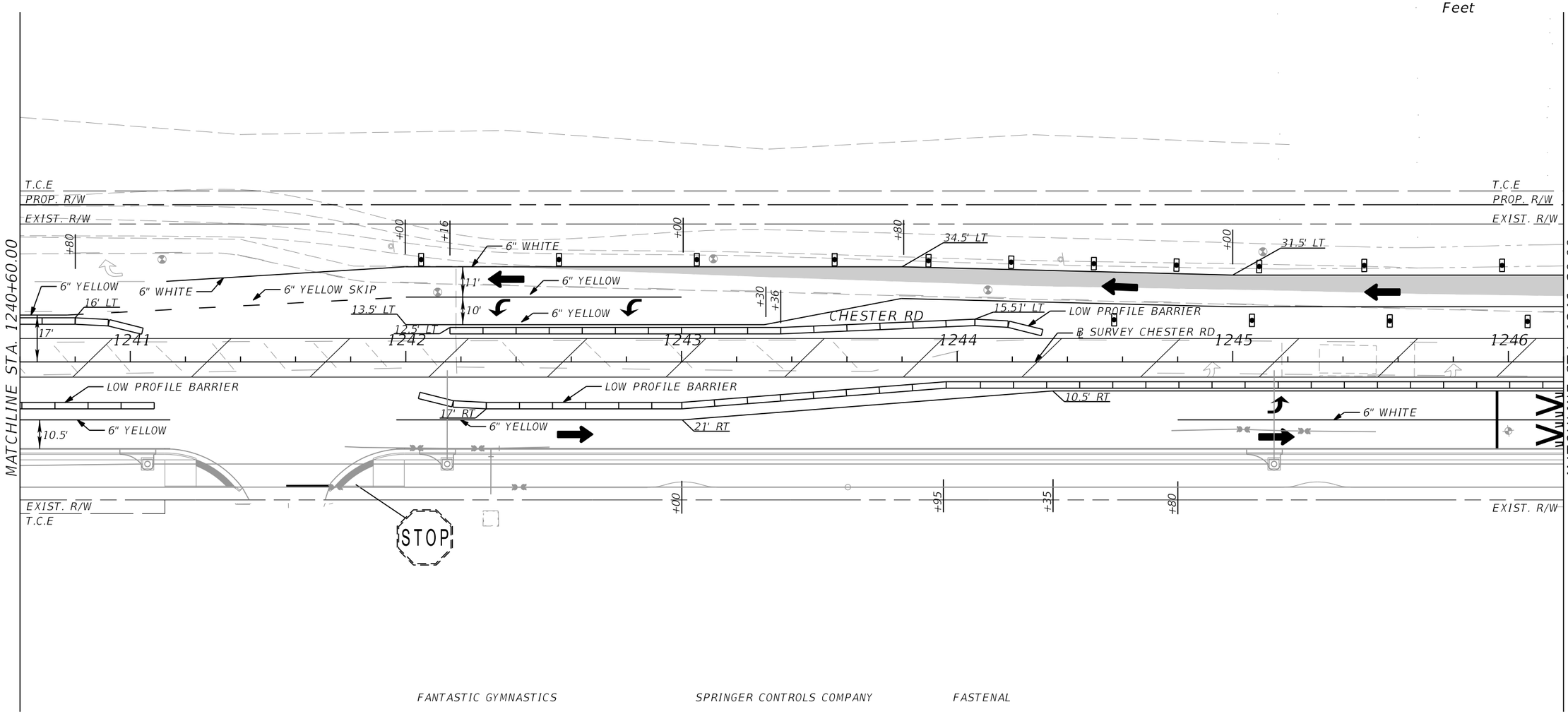
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 149

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DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



CHANNELIZING DEVICE
(SEE INDEX NO. 102-600)

WORK AREA

TEMPORARY PAVEMENT

LANE IDENTIFICATION

NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

PHASE III

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 150

Danny 12/14/2023 8:17:28 AM J:\Transportation\Projects\17-01-0202_ChesterInt\trafops\TCP_PH3_04.DGN

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

0 10 40
Feet

LENGTH OF:
GATE #1: 32' (ROADWAY)
CANT #1: 22' (ROADWAY)
GATE #2: 27' (ROADWAY)
CANT #2: 28' (ROADWAY)
GATE #5: 10' (PEDESTRIAN)
GATE #6: 10' (PEDESTRIAN)
GATE #7: 10' (PEDESTRIAN)

MATCHLINE STA. 1246+20.00

MATCHLINE STA. 187+40.00

FCRD R/W

RAILWAY TRACKS

MATCHLINE STA. 247+80.00

6" WHITE

6" WHITE

6" WHITE

6" DOUBLE YELLOW

LOW PROFILE BARRIER

EXIST. R/W

CONST. 24" TEMP. PIPE

CONST. 24" MES

120'

FCRD R/W

RR SHELTER

PAGES DAIRY ROAD

248

249

GATE #6

T.C.E

PROP. R/W

EXIST. R/W

TYPE III BARRICADES

CANT #1

GATE #1

6" WHITE

6" YELLOW

11.5'

CHESTER RD

1247

1248

1249

6" YELLOW

6" DOUBLE YELLOW

6" DOUBLE YELLOW

LOW PROFILE BARRIER

6" YELLOW

CANT #2

6" WHITE

PI STA. 185+61.57

15" RCP

6" WHITE

EXIST. R/W

15" RCP

11.5'

6" YELLOW

LOW PROFILE BARRIER

186

187

+00

℄ SURVEY CHESTER RD

6" YELLOW

18" RCP

18" RCP

18" RCP

+45

EXIST. R/W

EXIST. R/W

24" HDP PIPE

GATE #7

GATE #2

GATE #5

FIRST COAST RAILROAD

T.C.E

T.C.E

EQUATION:
Sta 1249+37.34 BK =
Sta 185+10.33 AH =
Sta. 249+33.87

RAILWAY TRACKS

160'

FCRD R/W

FCRD R/W

EXIST. R/W

CHESTER ROAD
ROADWAY DESIGN STA. 1248+21.35
FIRST COAST RAILROAD INC. (FCRD)
AKMD VAL-MAP STA. TBD
AAR\DOT #620804A
RR MP: 39.06

NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

CHANNELIZING DEVICE
(SEE INDEX NO. 102-600)

WORK AREA

TEMPORARY PAVEMENT

LANE IDENTIFICATION

PHASE III

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
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Jacksonville, FL 32246
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NASSAU COUNTY ENGINEERING

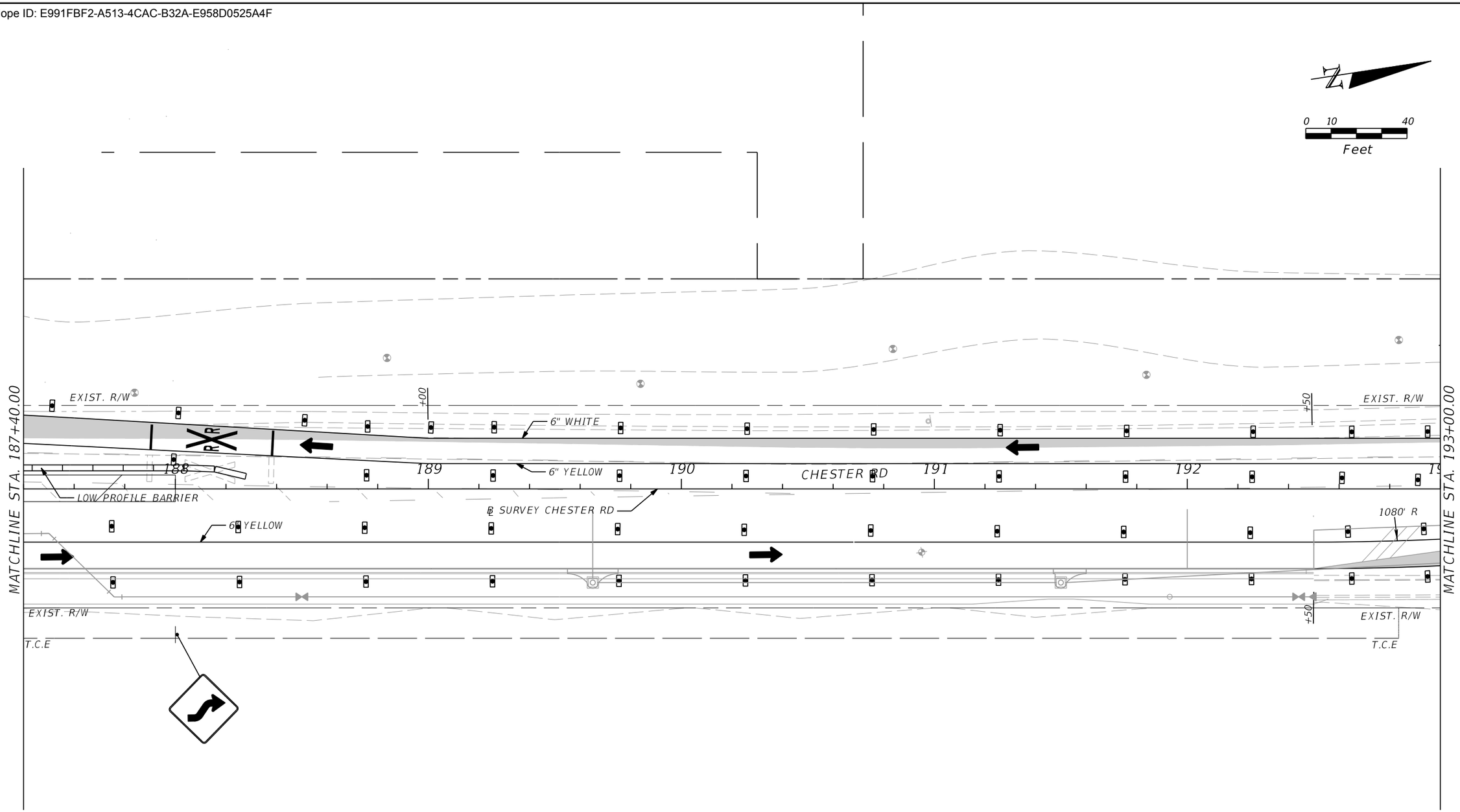
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 151

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CHANNELIZING DEVICE
(SEE INDEX NO. 102-600)

WORK AREA

TEMPORARY PAVEMENT

LANE IDENTIFICATION

NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

PHASE III

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

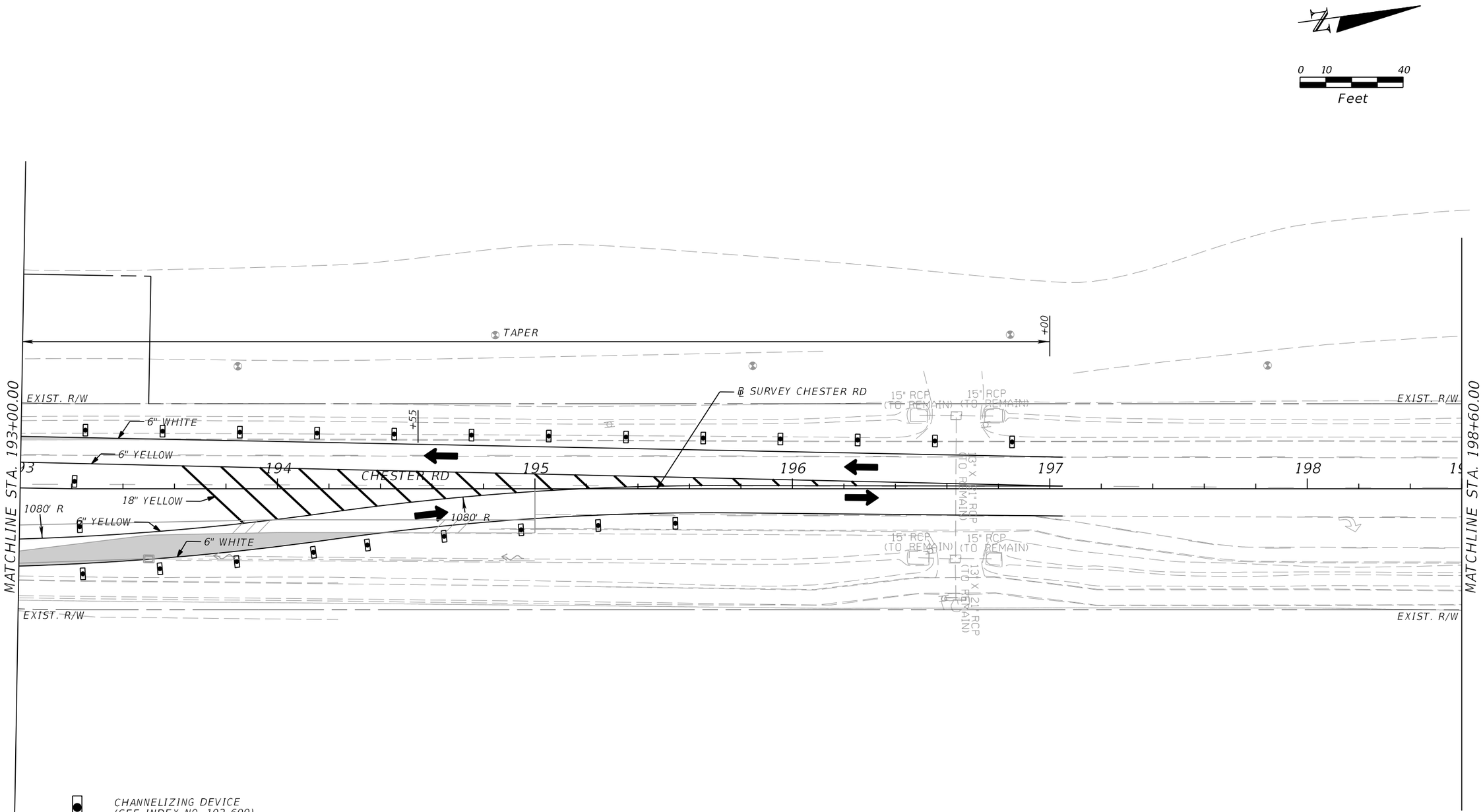
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 152

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CHANNELIZING DEVICE
(SEE INDEX NO. 102-600)

WORK AREA

TEMPORARY PAVEMENT

LANE IDENTIFICATION

NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

PHASE III

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

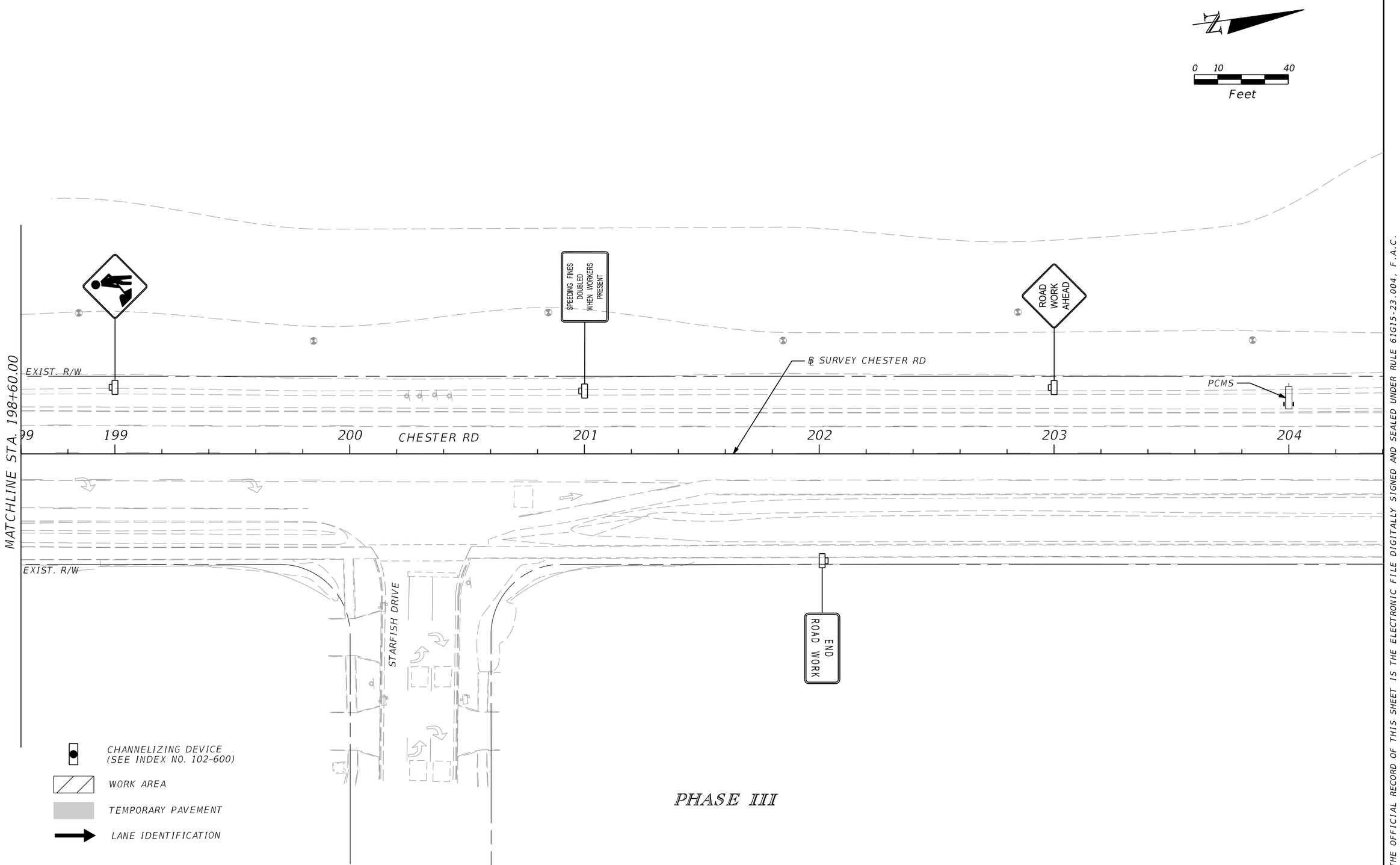
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 153

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10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

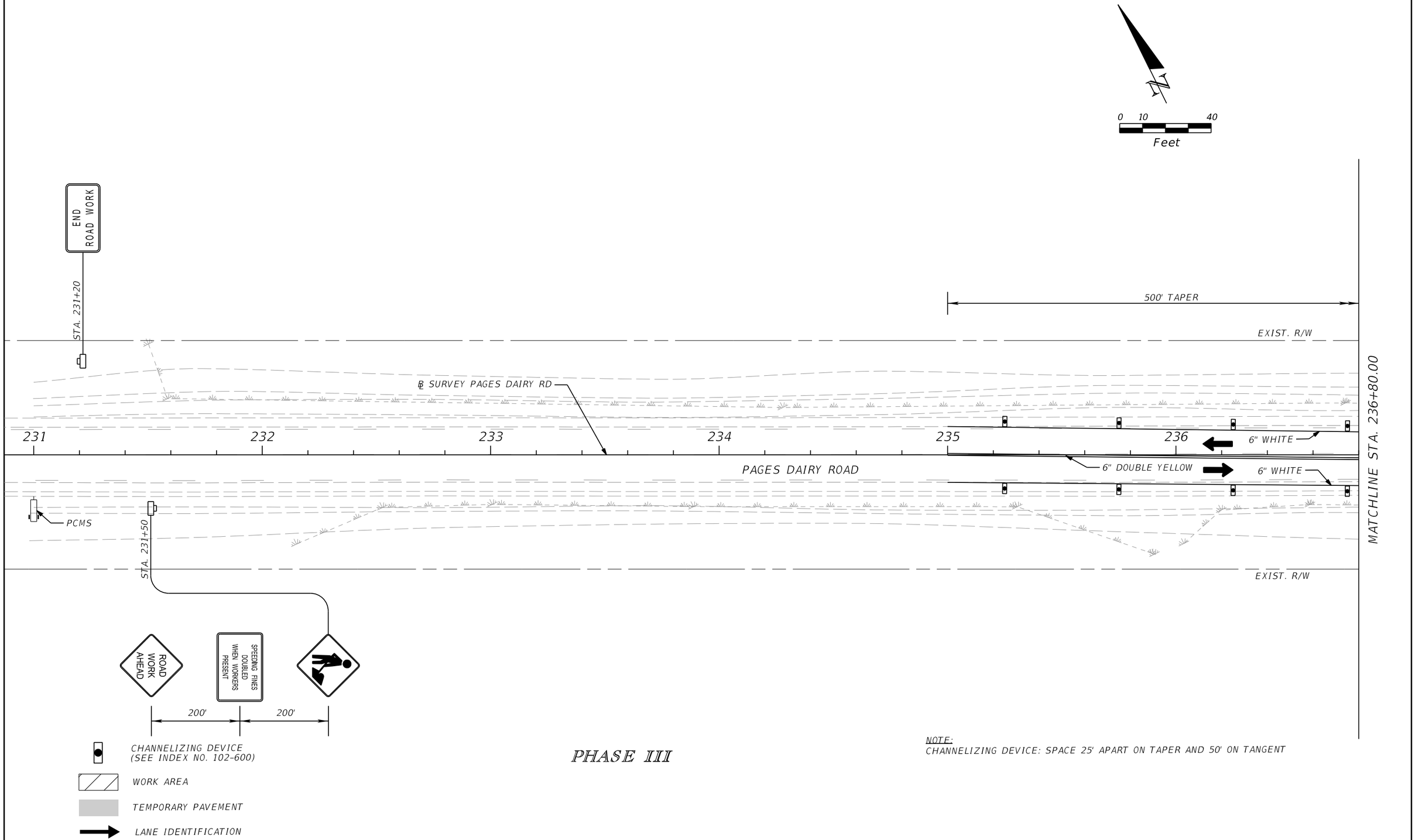
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 154

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DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



PHASE III

NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

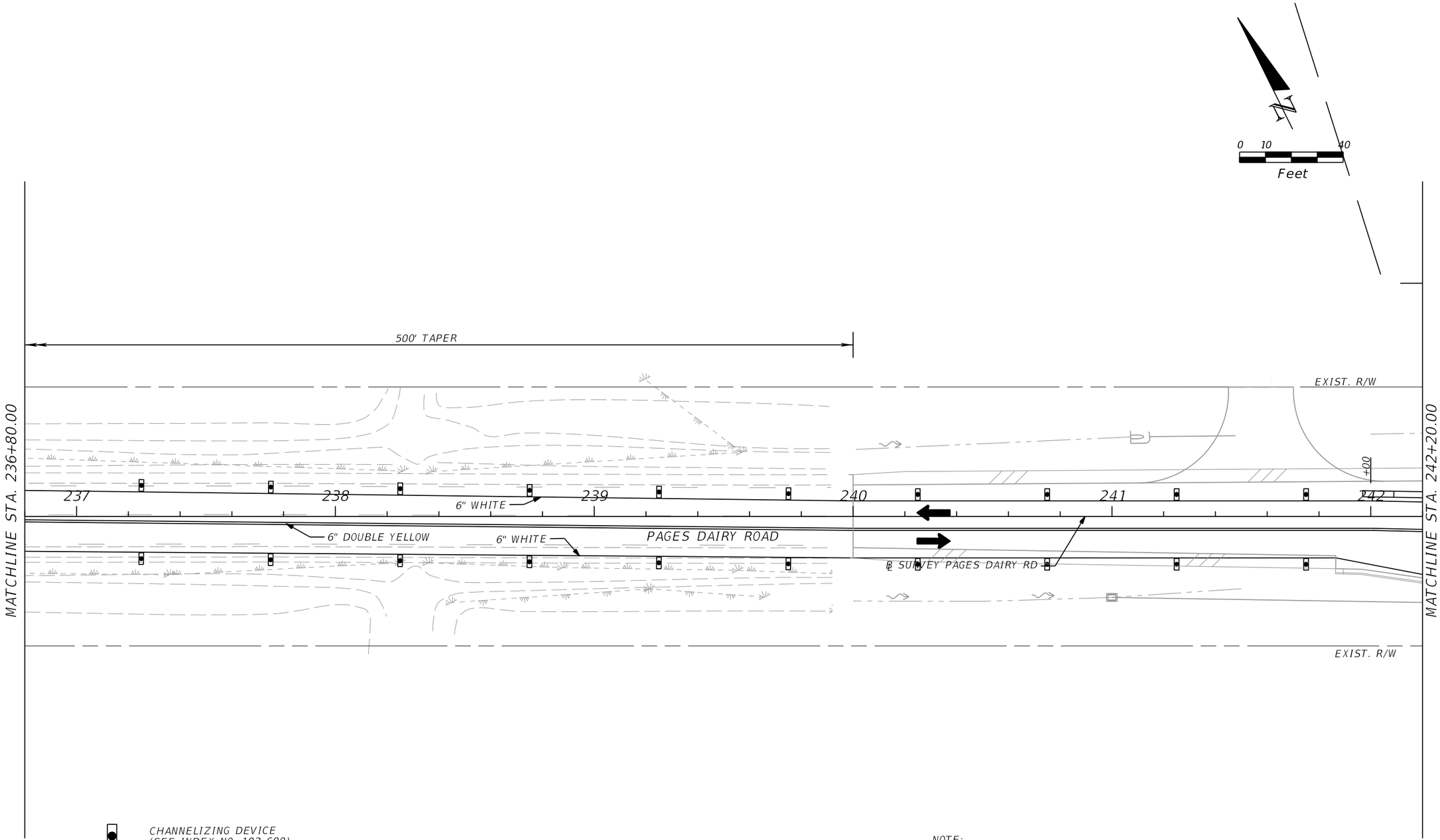
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 155

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CHANNELIZING DEVICE
(SEE INDEX NO. 102-600)

WORK AREA

TEMPORARY PAVEMENT

LANE IDENTIFICATION

NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

PHASE III

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

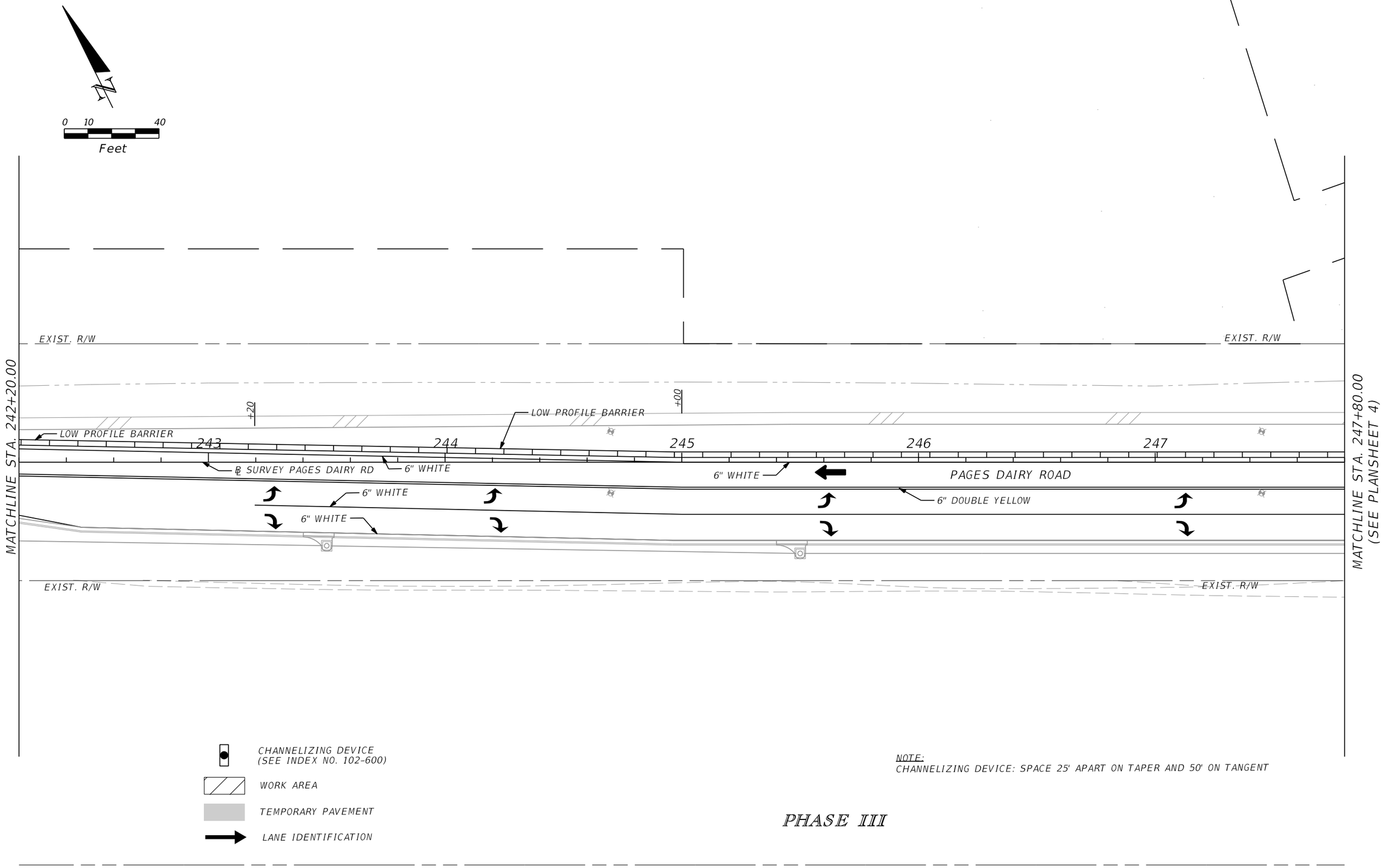
TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 156

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CHANNELIZING DEVICE
(SEE INDEX NO. 102-600)

WORK AREA

TEMPORARY PAVEMENT

LANE IDENTIFICATION

NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

PHASE III

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
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Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

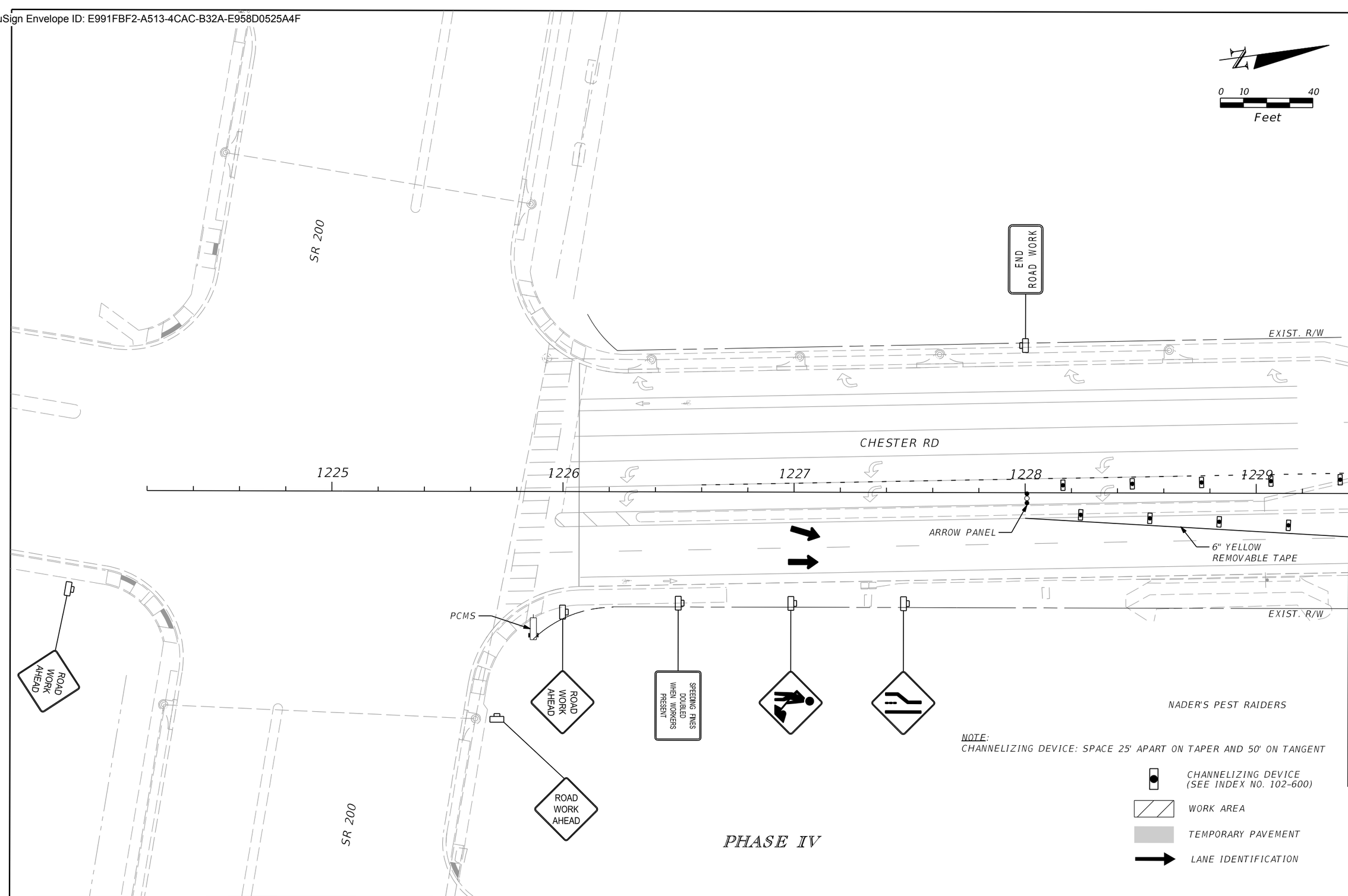
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 157

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

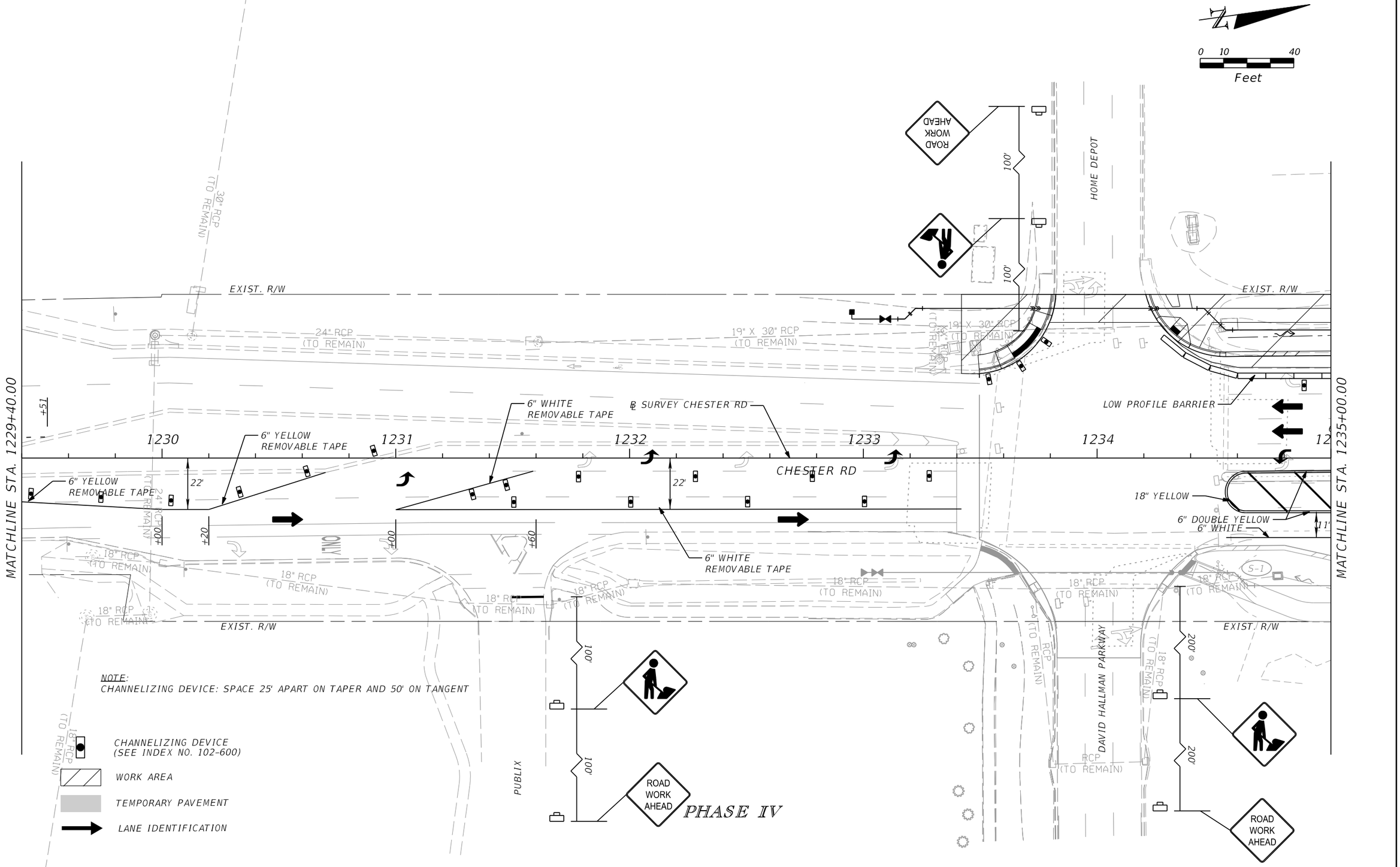
TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 158

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REVISIONS			
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Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

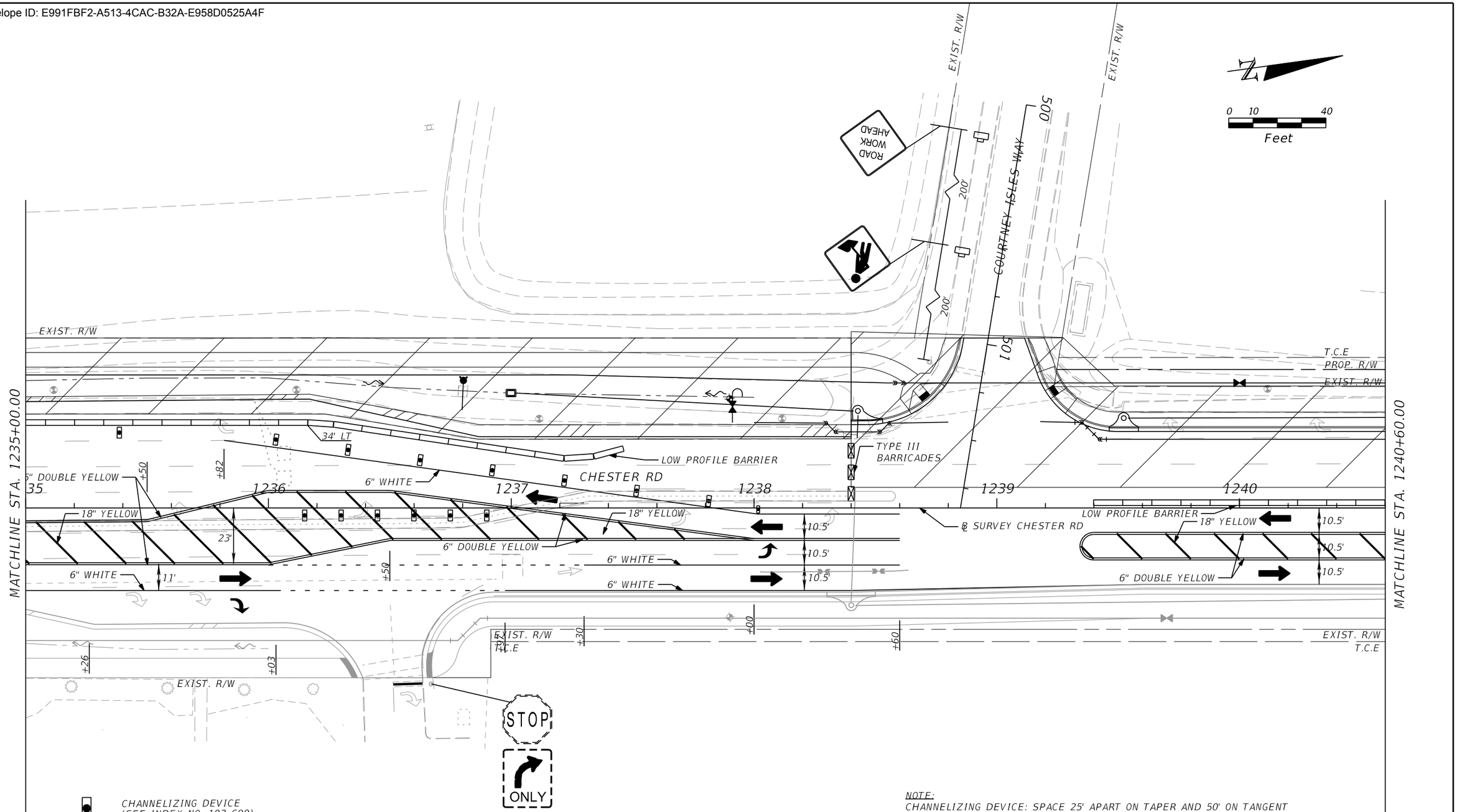
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 159

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DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

PHASE IV

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

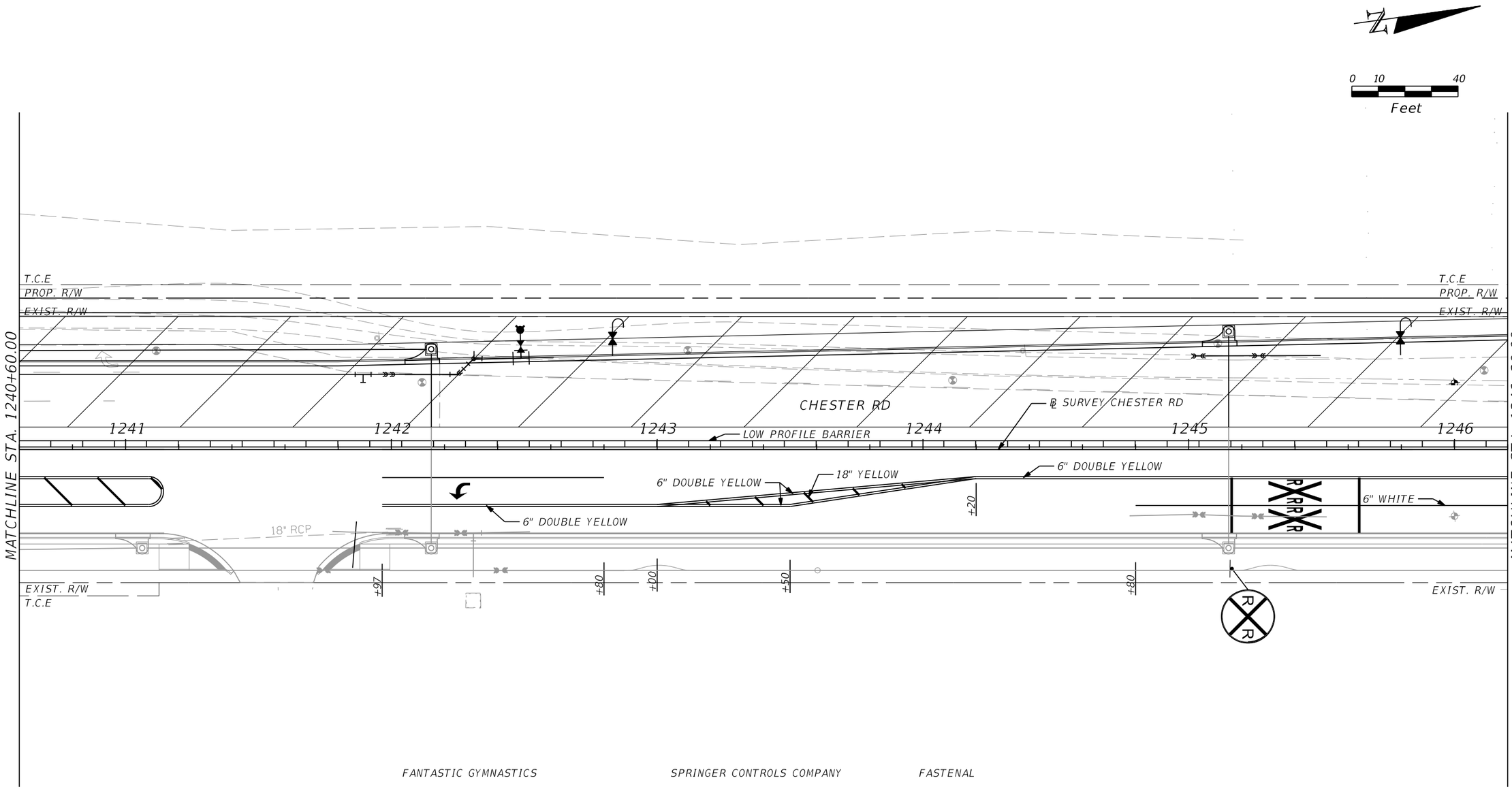
TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 160

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CHANNELIZING DEVICE
(SEE INDEX NO. 102-600)

WORK AREA

TEMPORARY PAVEMENT

LANE IDENTIFICATION

NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

PHASE IV

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

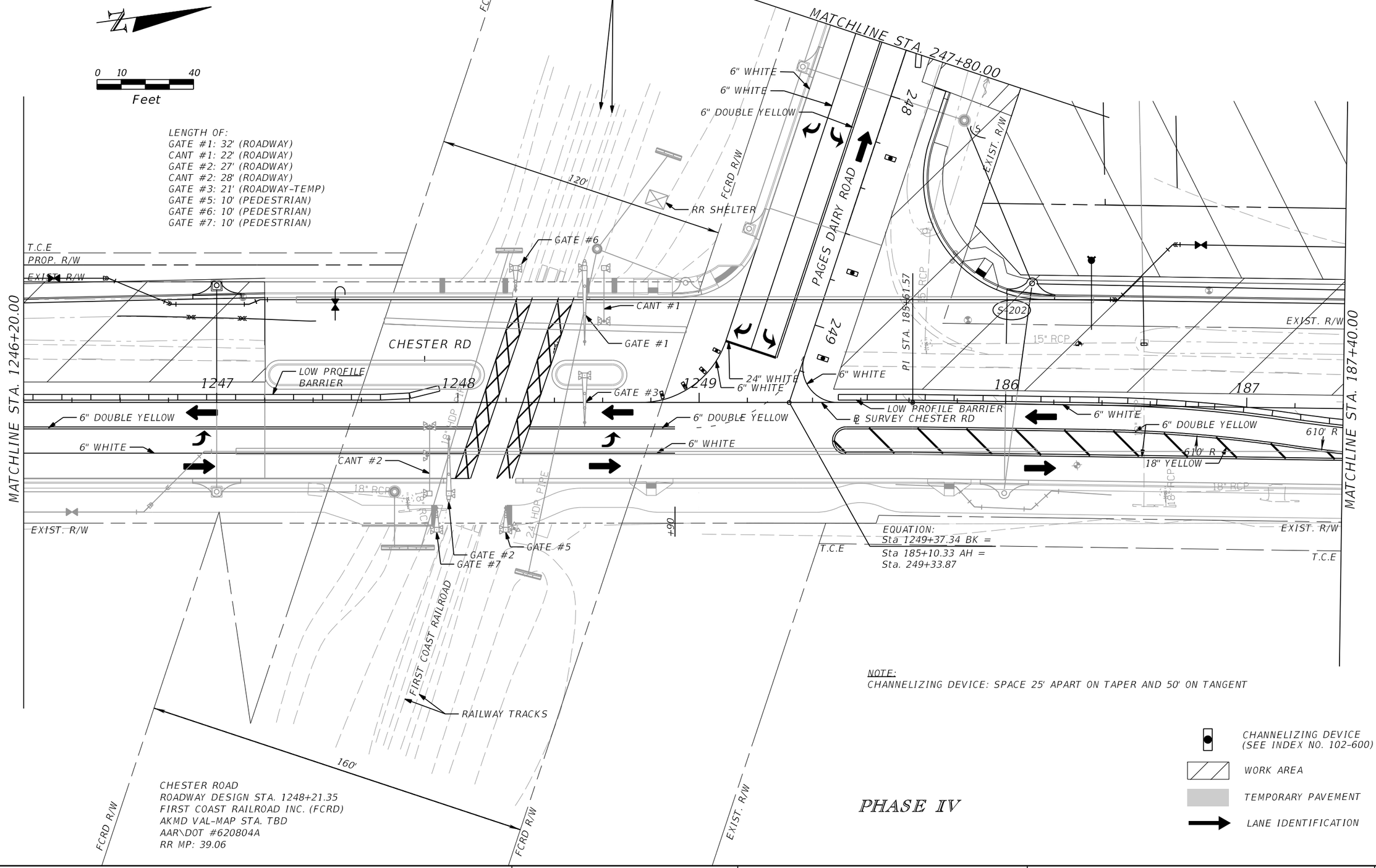
TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 161

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REVISIONS			
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10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

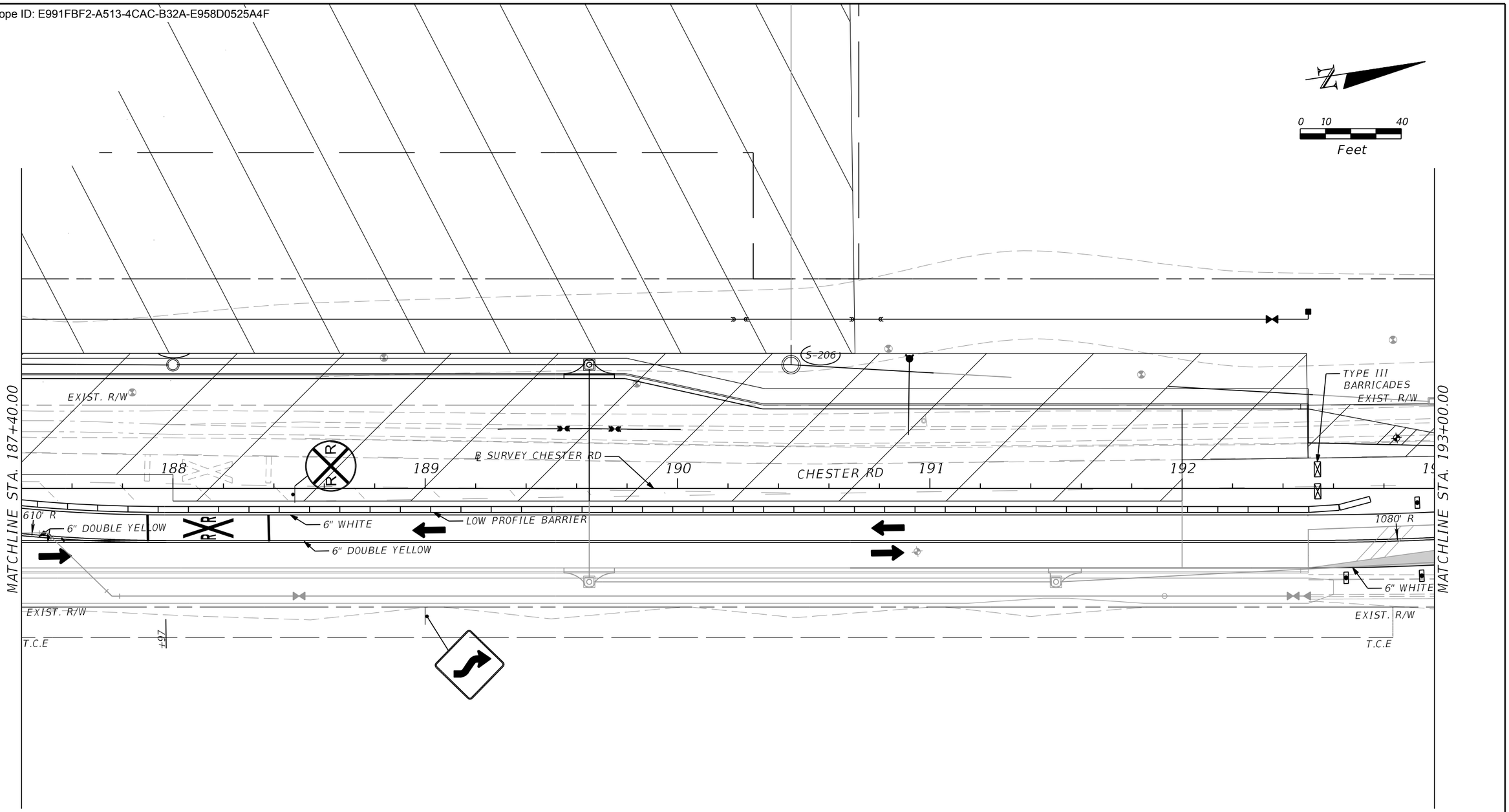
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 162

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CHANNELIZING DEVICE
(SEE INDEX NO. 102-600)

WORK AREA

TEMPORARY PAVEMENT

LANE IDENTIFICATION

NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

PHASE IV

REVISIONS			
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Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
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FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

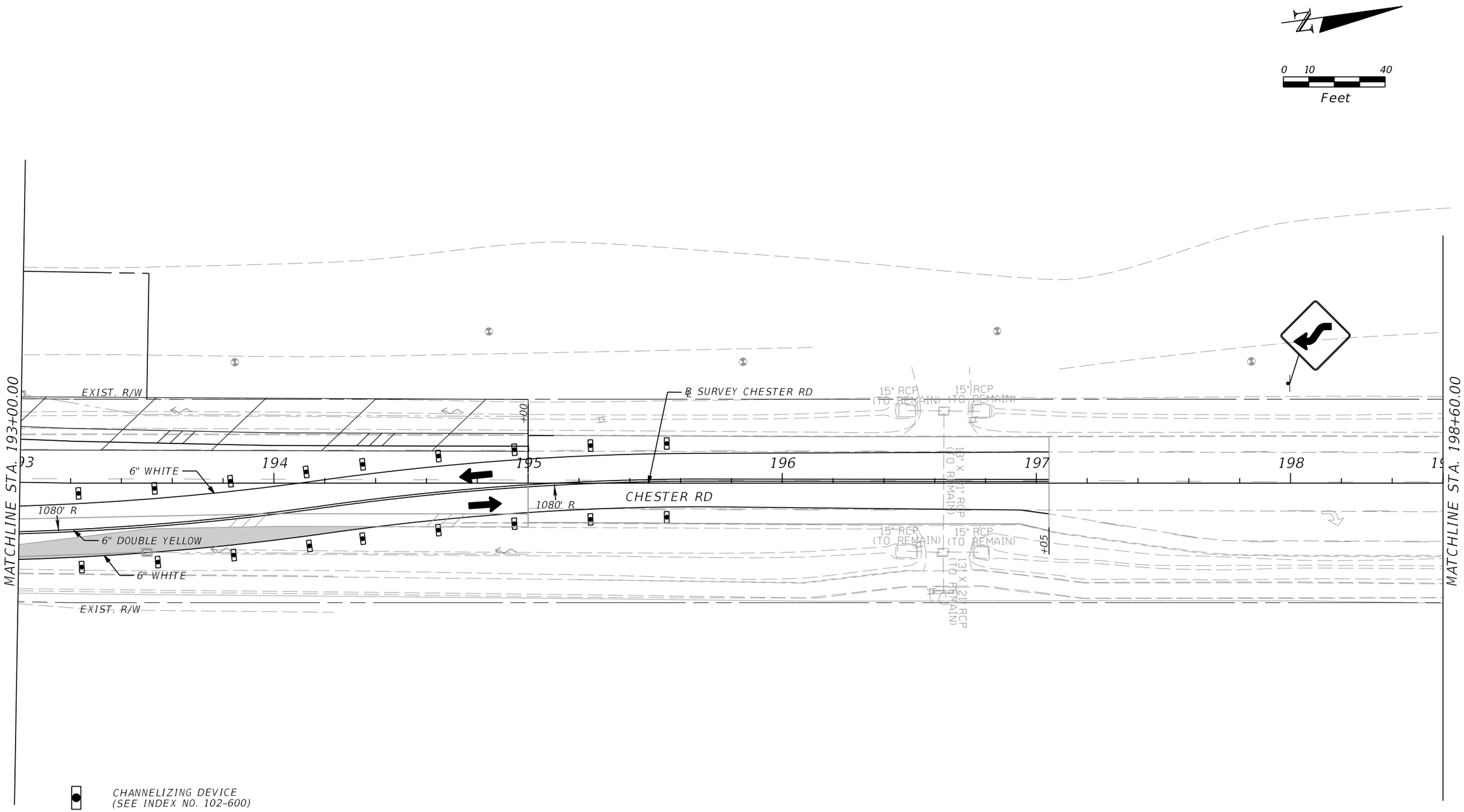
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 163

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CHANNELIZING DEVICE
(SEE INDEX NO. 102-600)

WORK AREA

TEMPORARY PAVEMENT

LANE IDENTIFICATION

NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

PHASE IV

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

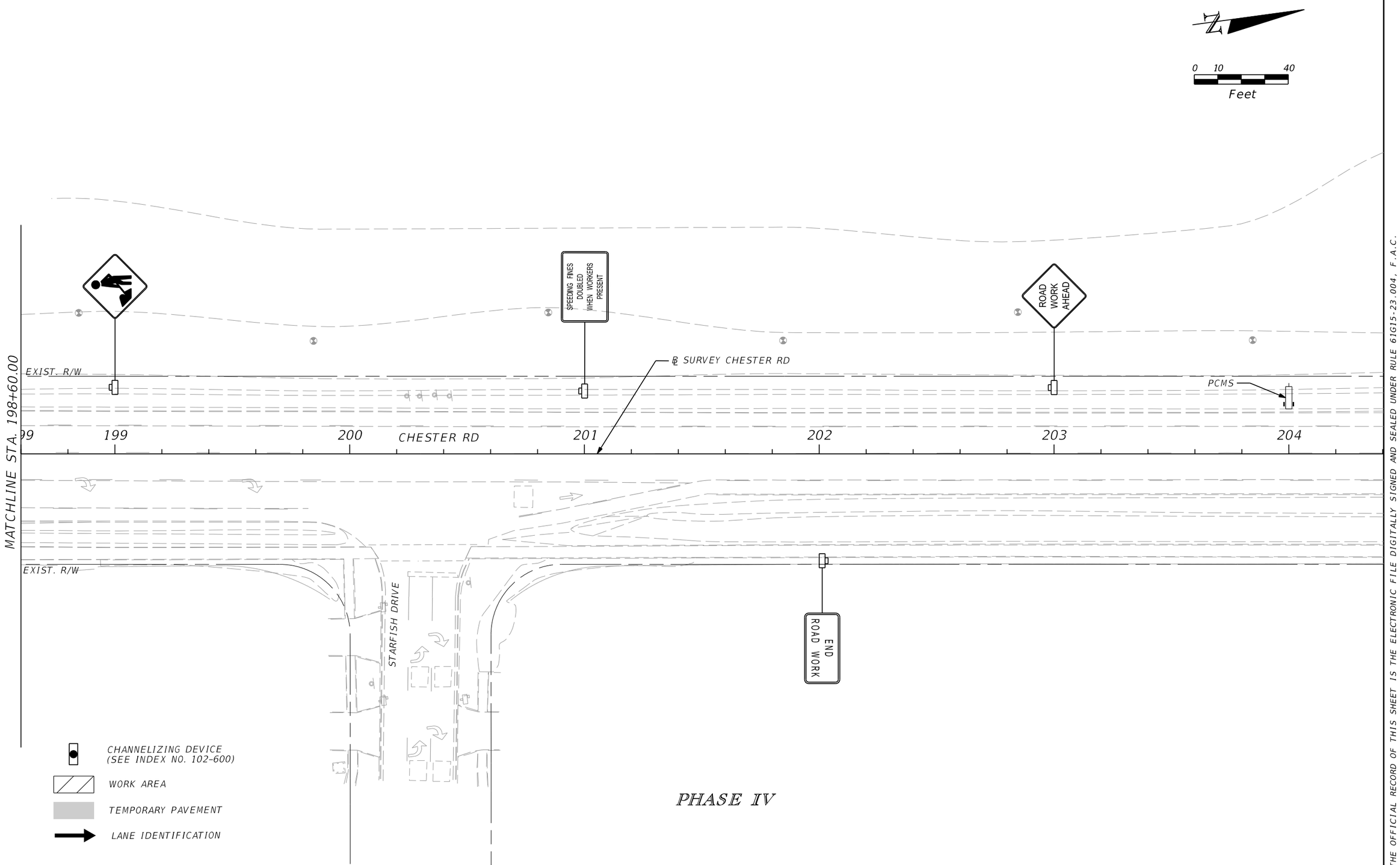
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 164

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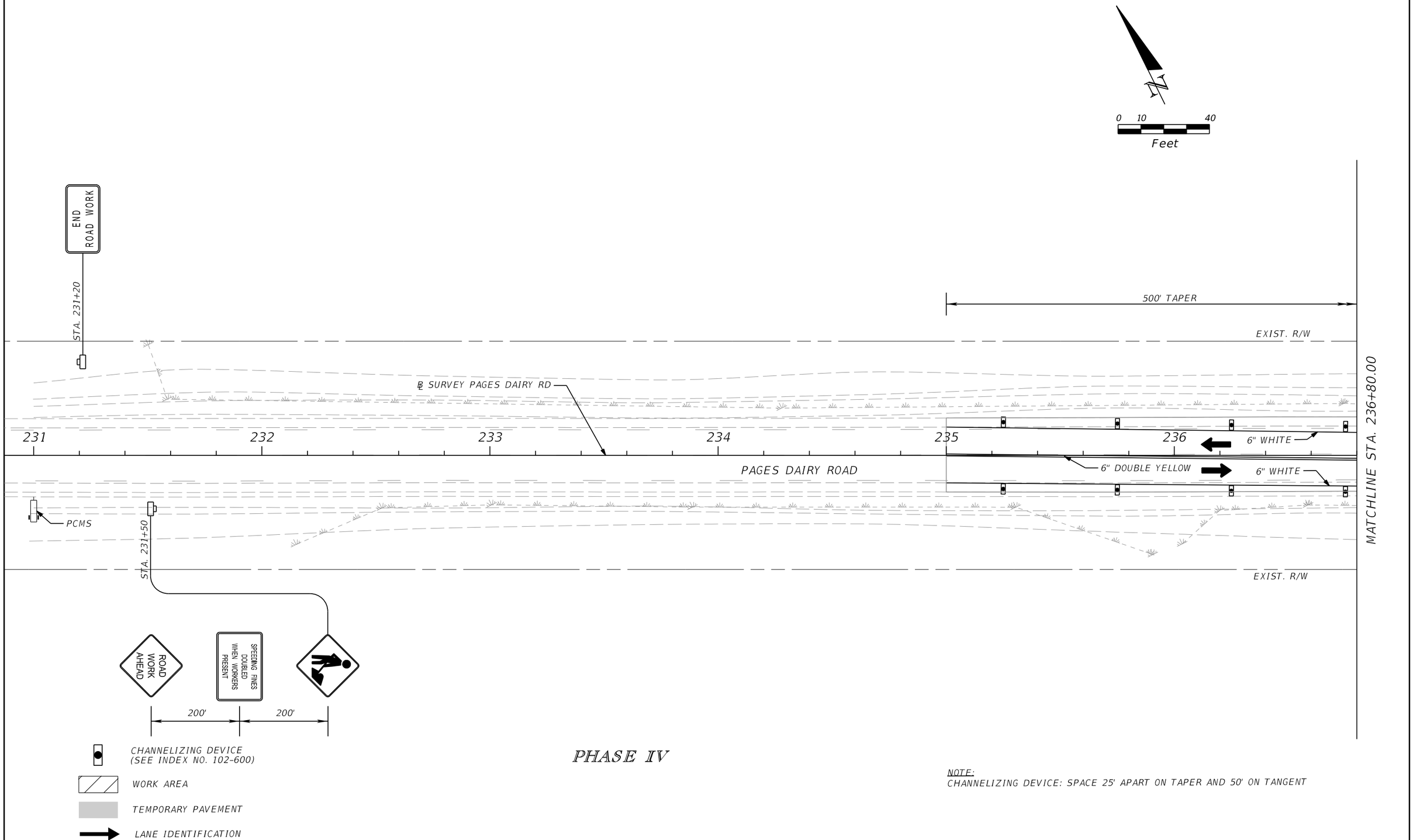
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 165

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PHASE IV

NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
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FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

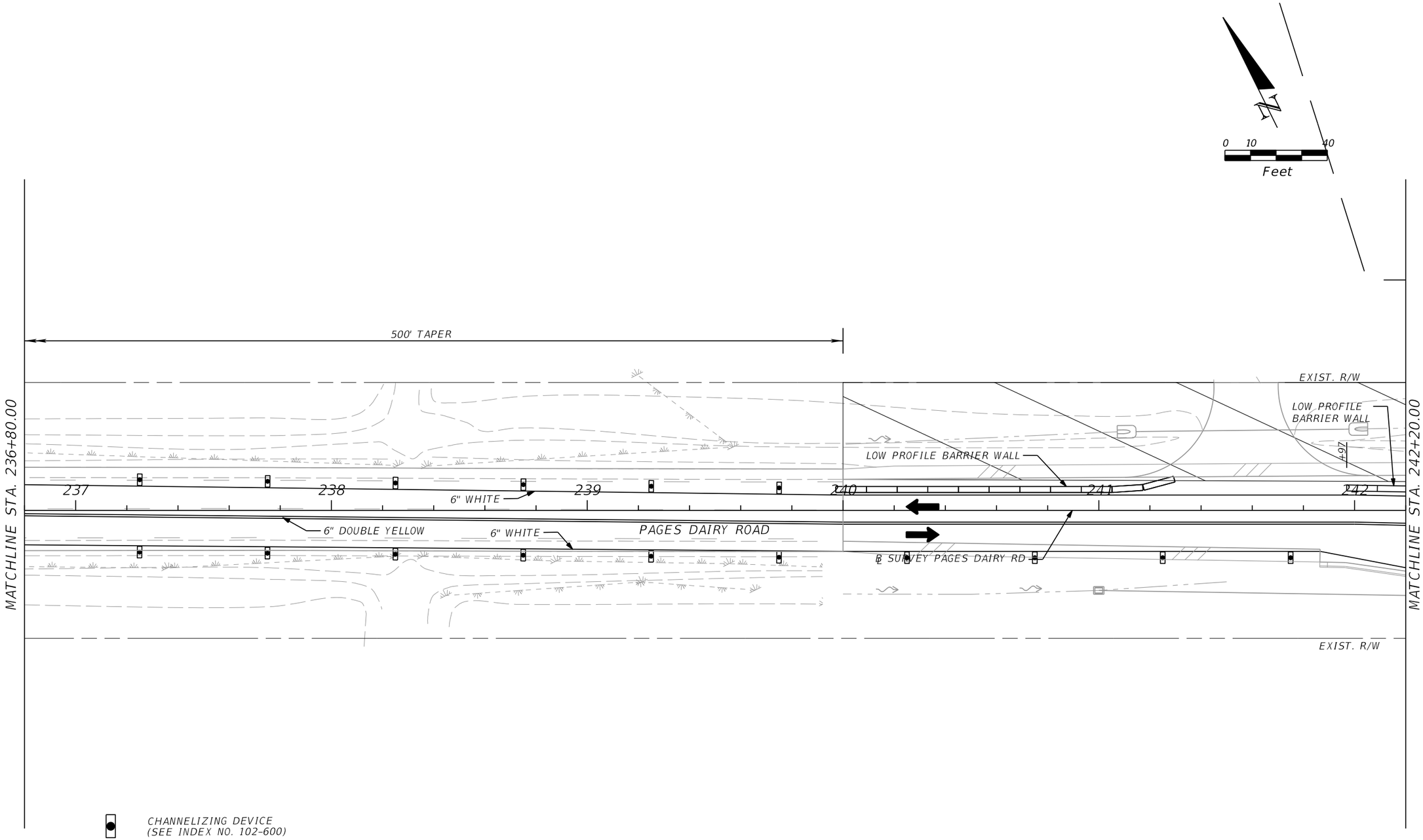
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 166

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



PHASE IV

NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

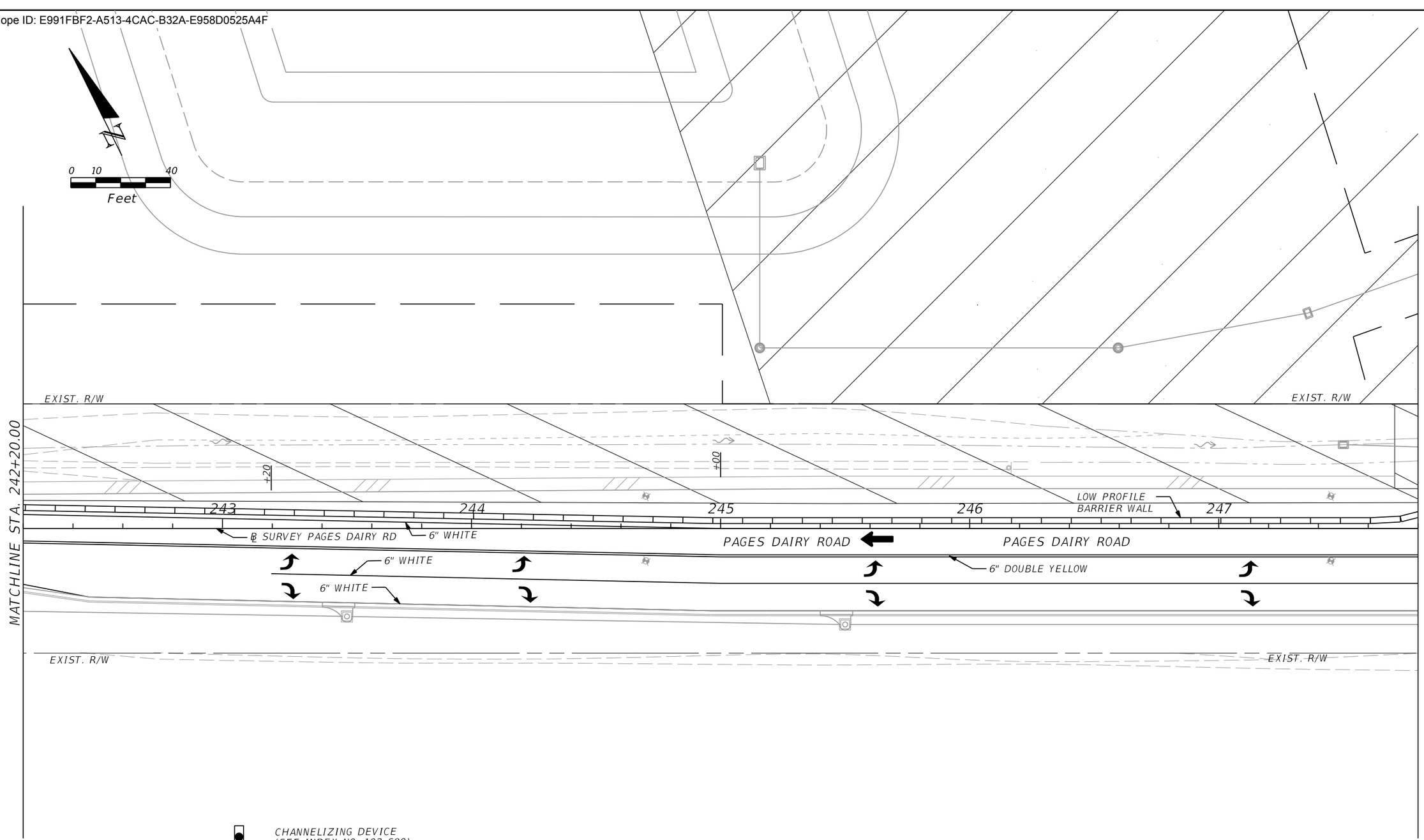
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 167

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



CHANNELIZING DEVICE (SEE INDEX NO. 102-600)

WORK AREA

TEMPORARY PAVEMENT

LANE IDENTIFICATION

NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

PHASE IV

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
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FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

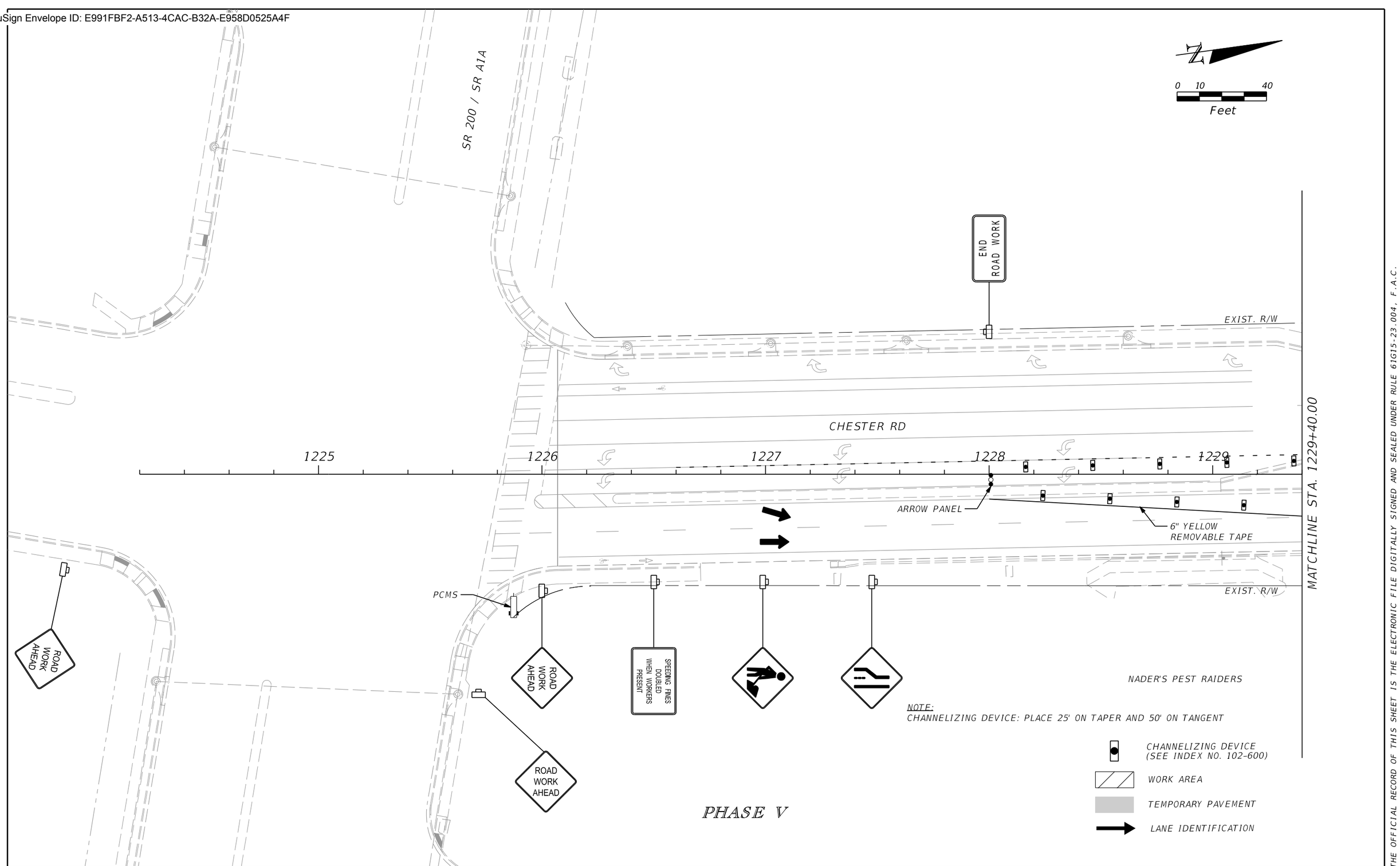
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 168

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PHASE V

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
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FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

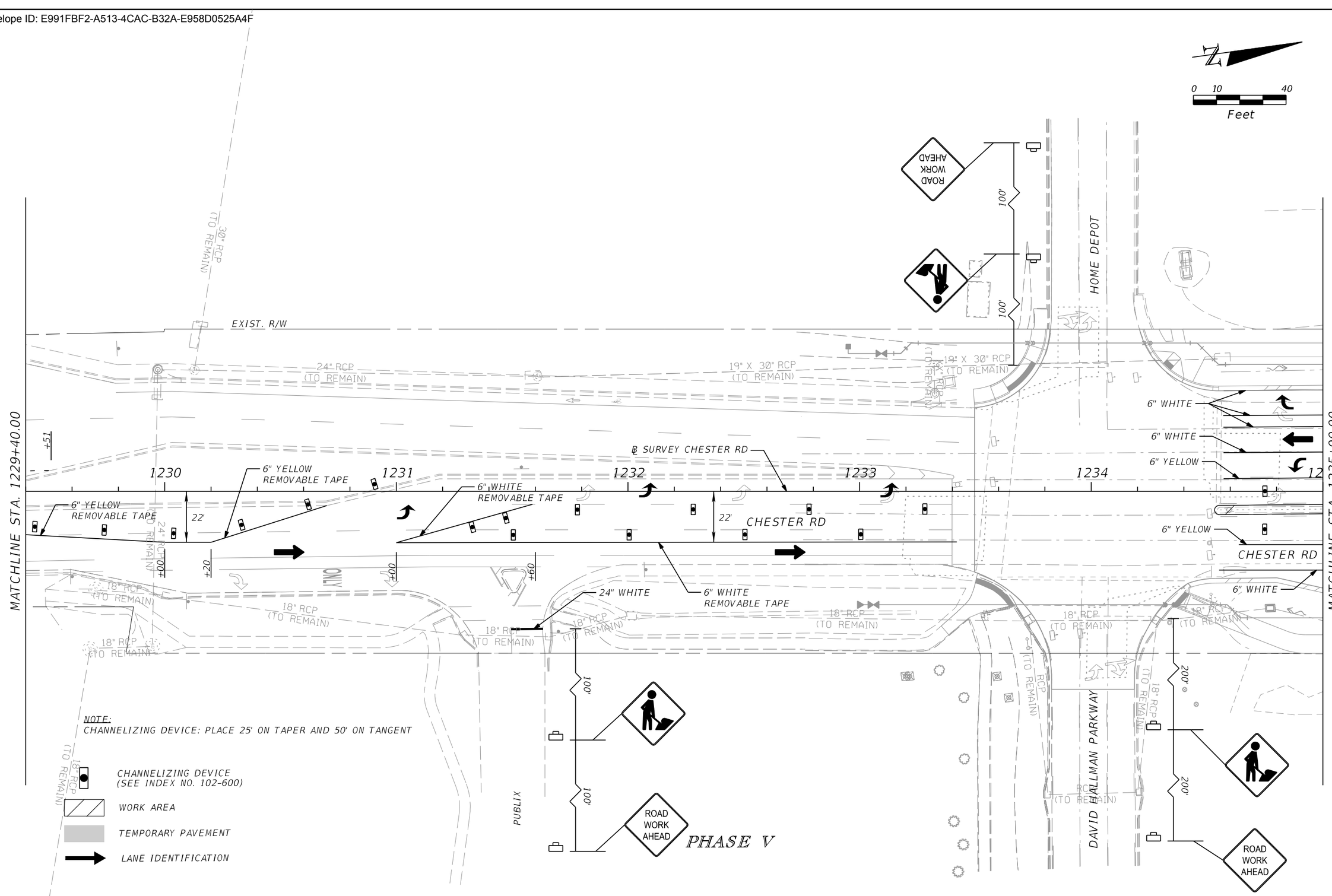
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 169

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

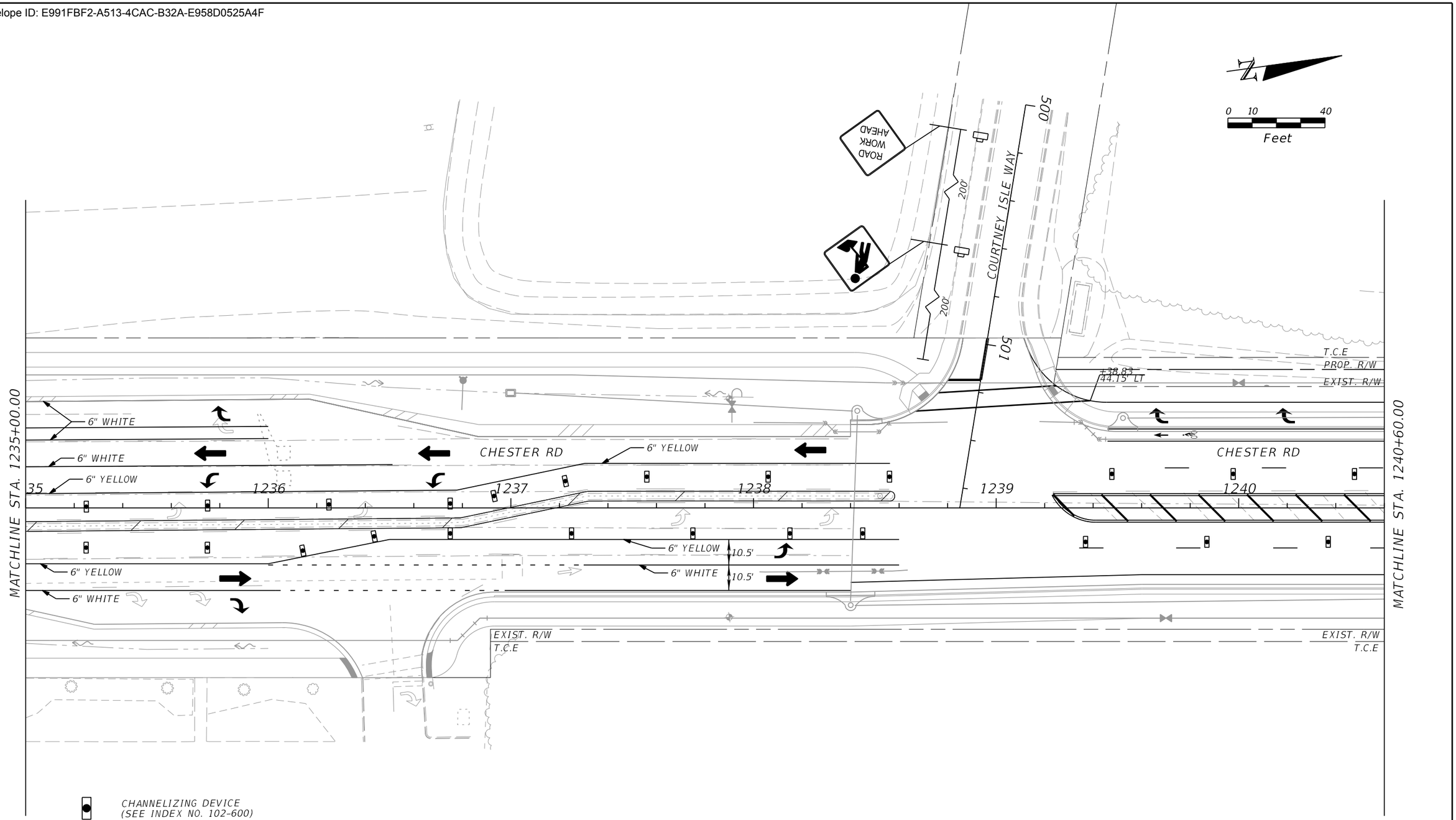
TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 170

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



CHANNELIZING DEVICE
(SEE INDEX NO. 102-600)

WORK AREA

TEMPORARY PAVEMENT

LANE IDENTIFICATION

NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

PHASE V

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
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FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

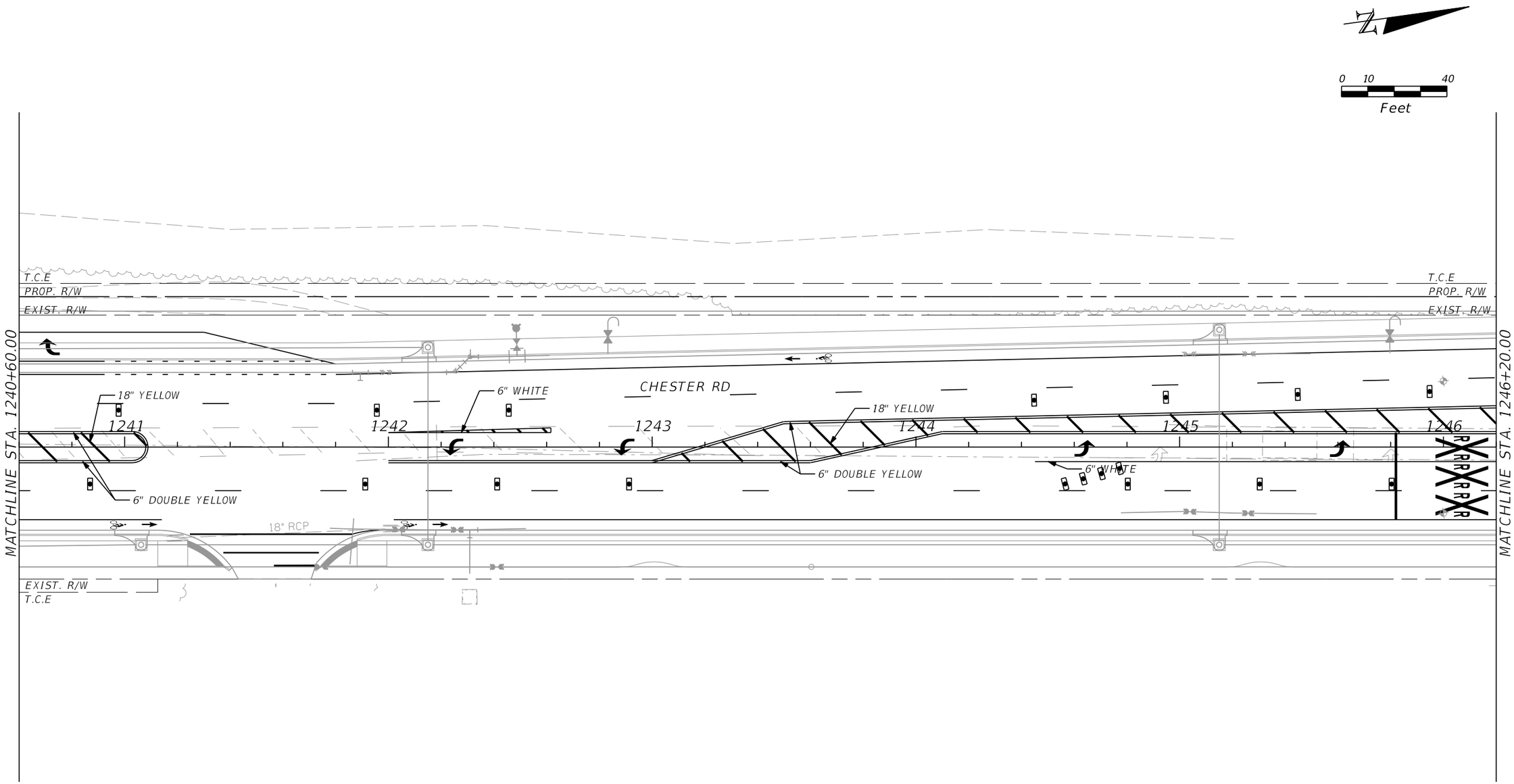
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 171

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CHANNELIZING DEVICE
(SEE INDEX NO. 102-600)

WORK AREA

TEMPORARY PAVEMENT

LANE IDENTIFICATION

NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

PHASE V

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

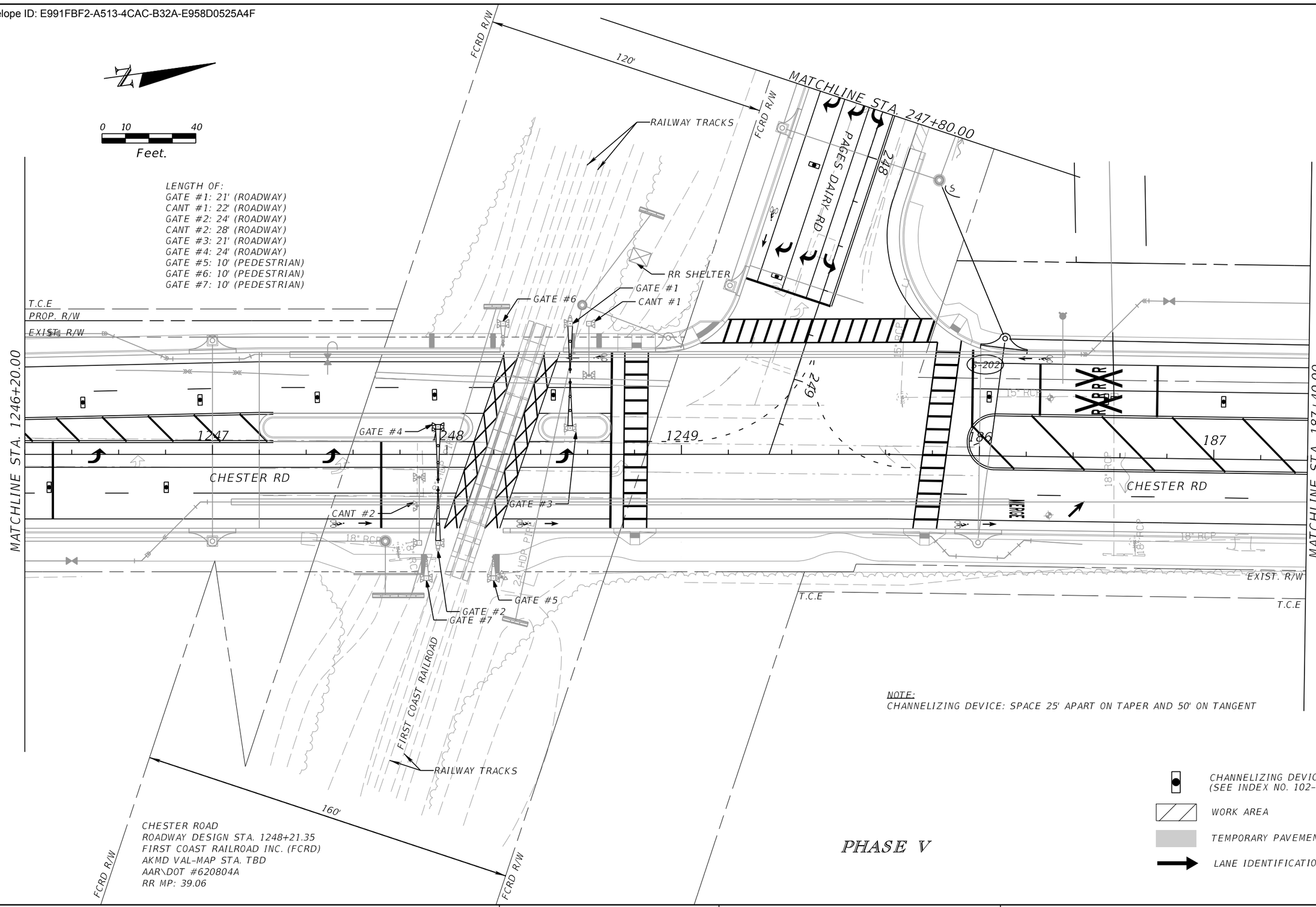
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 172

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NASSAU COUNTY ENGINEERING

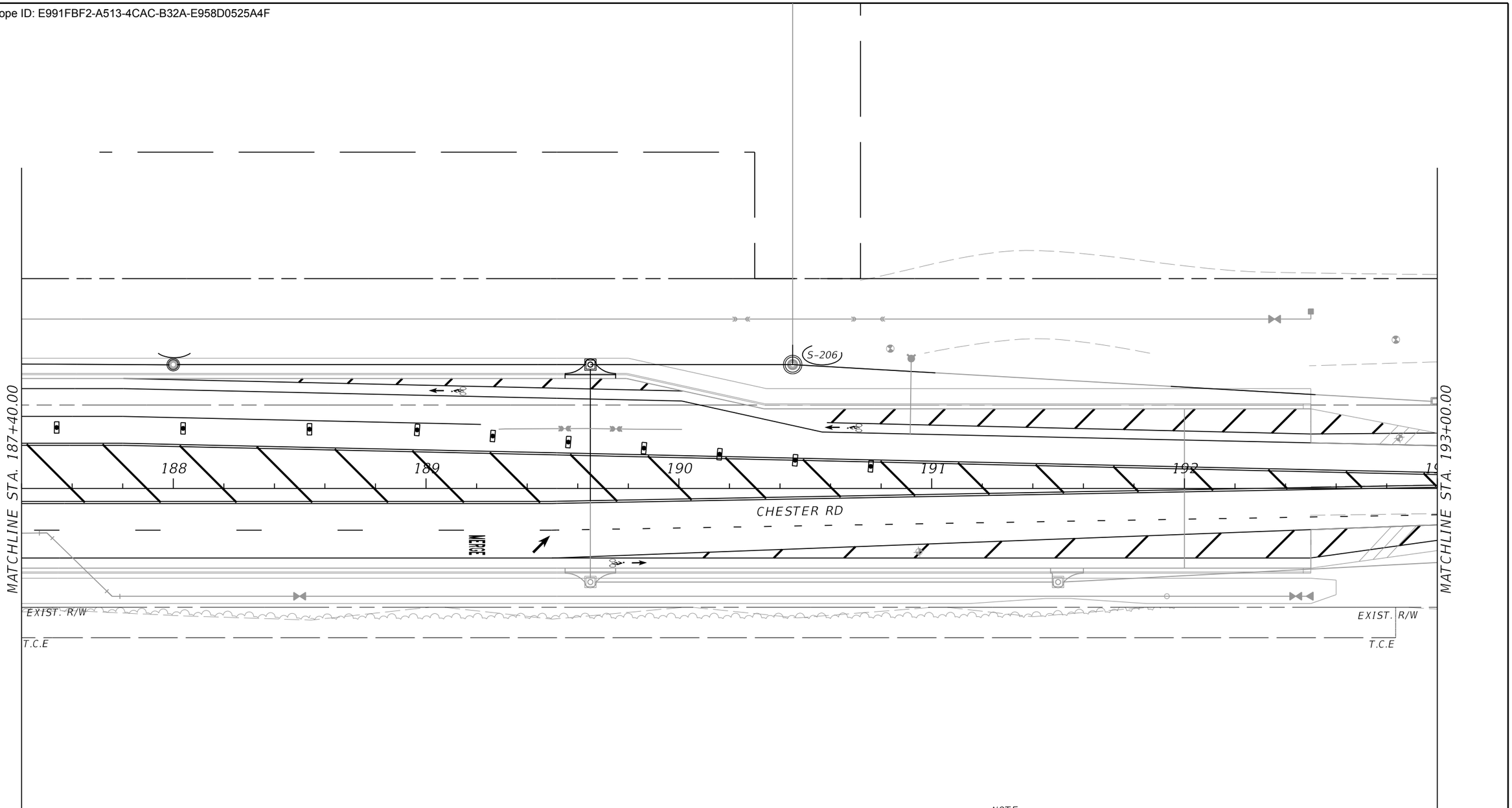
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 173

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NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

CHANNELIZING DEVICE
(SEE INDEX NO. 102-600)

WORK AREA

TEMPORARY PAVEMENT

LANE IDENTIFICATION

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

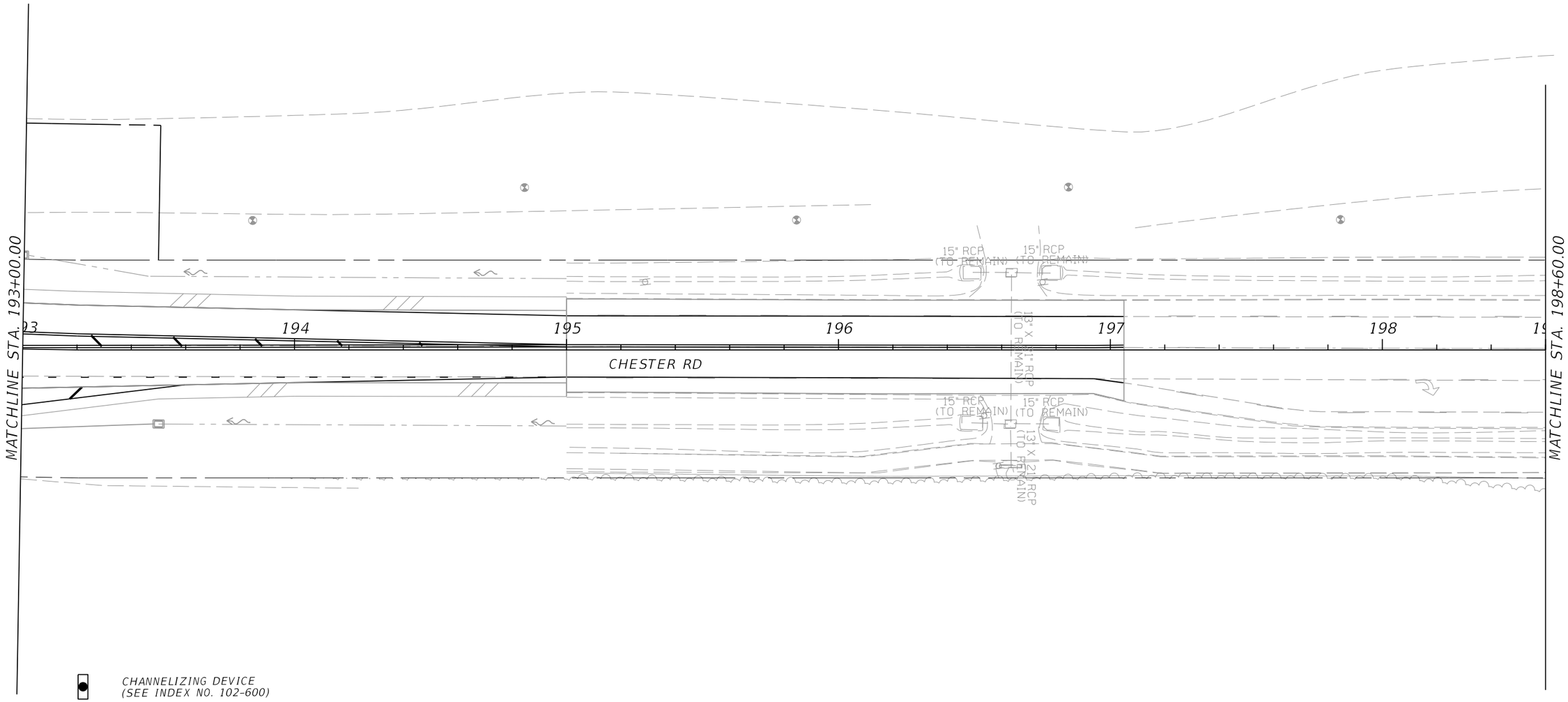
TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 174

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CHANNELIZING DEVICE
(SEE INDEX NO. 102-600)

WORK AREA

TEMPORARY PAVEMENT

LANE IDENTIFICATION

PHASE V

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Jacksonville, FL 32246
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FL P.E. No. 73903

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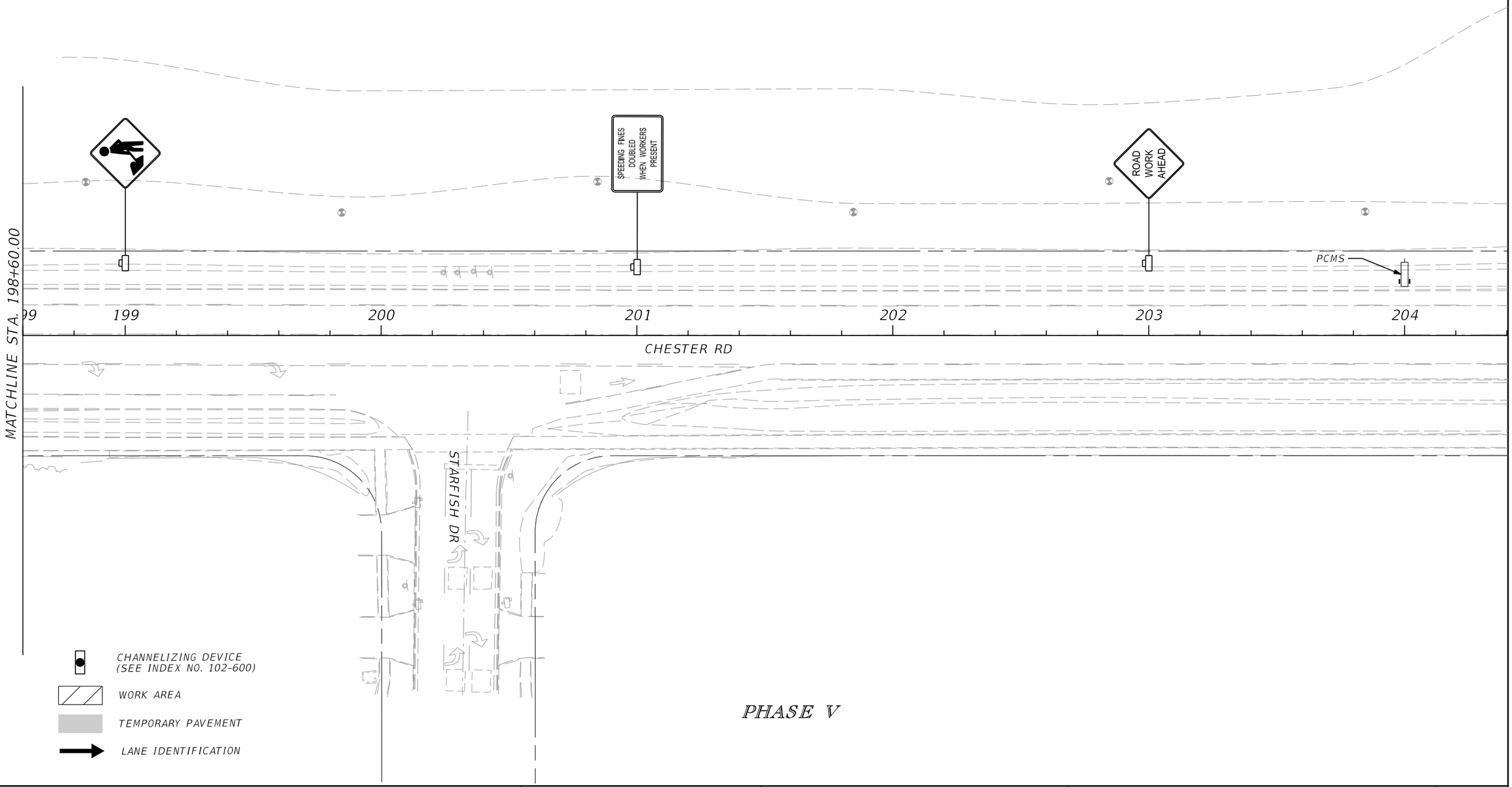
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 175

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

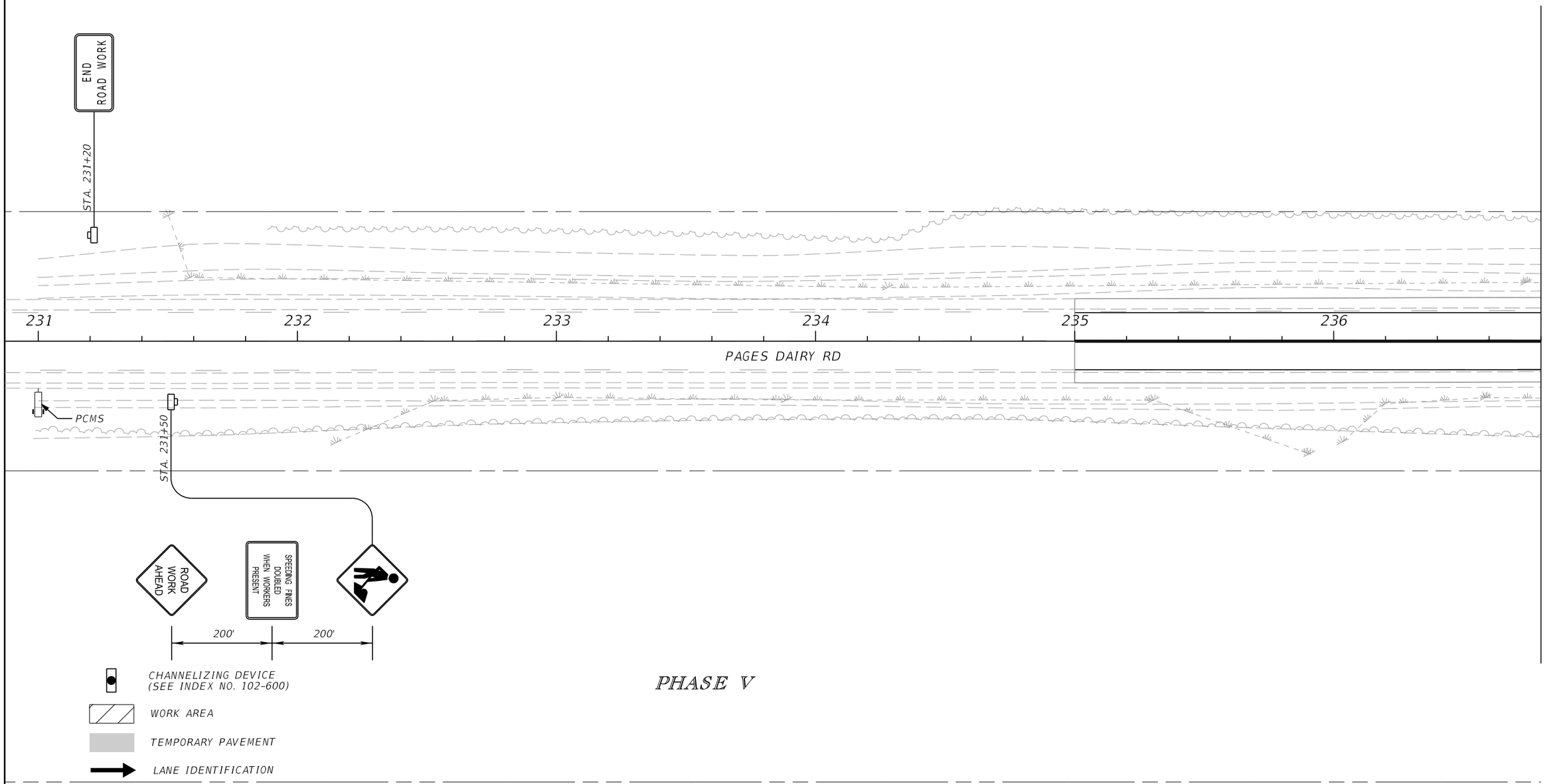
TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 176

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PHASE V

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Certification of Authorization No. 3650

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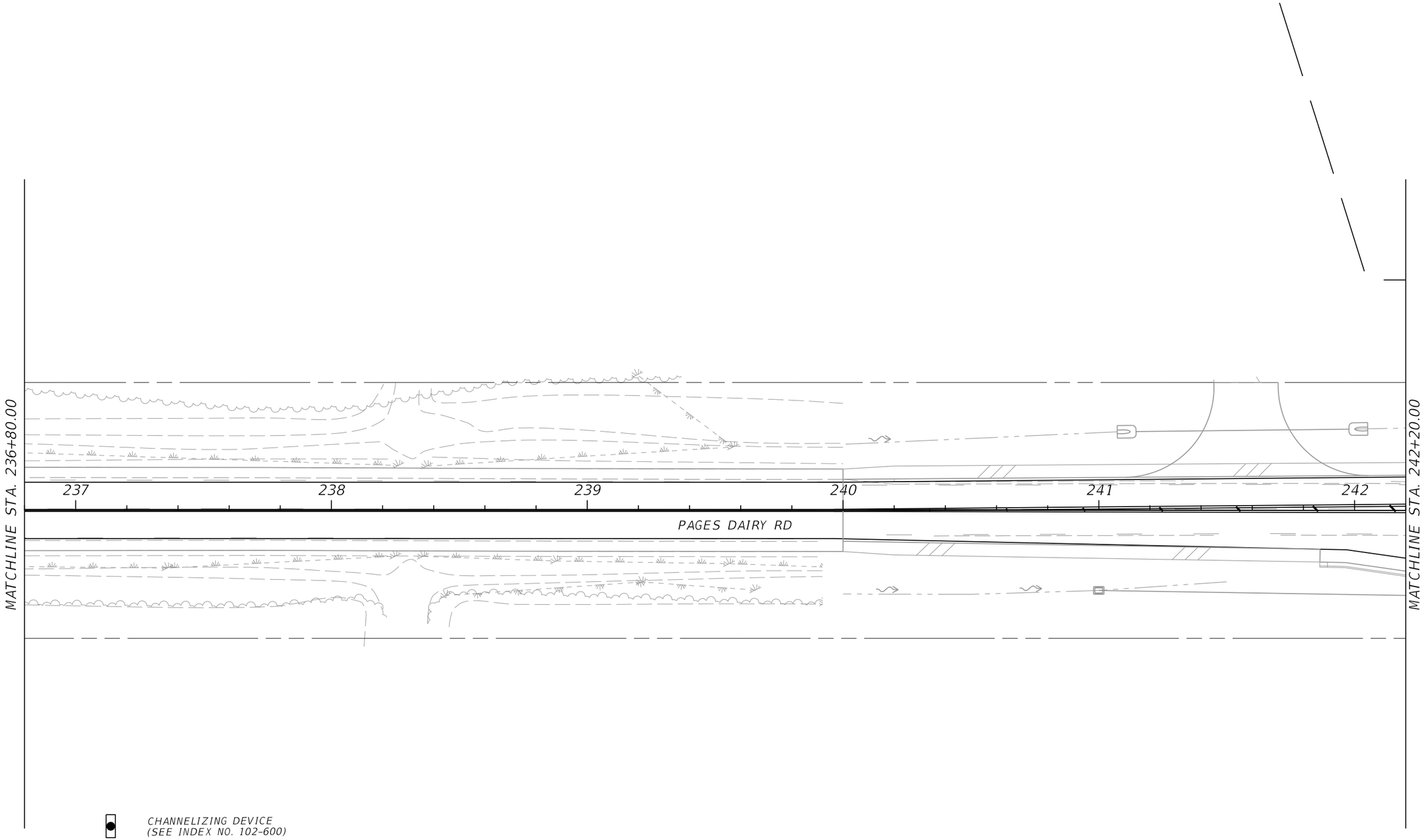
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 177

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

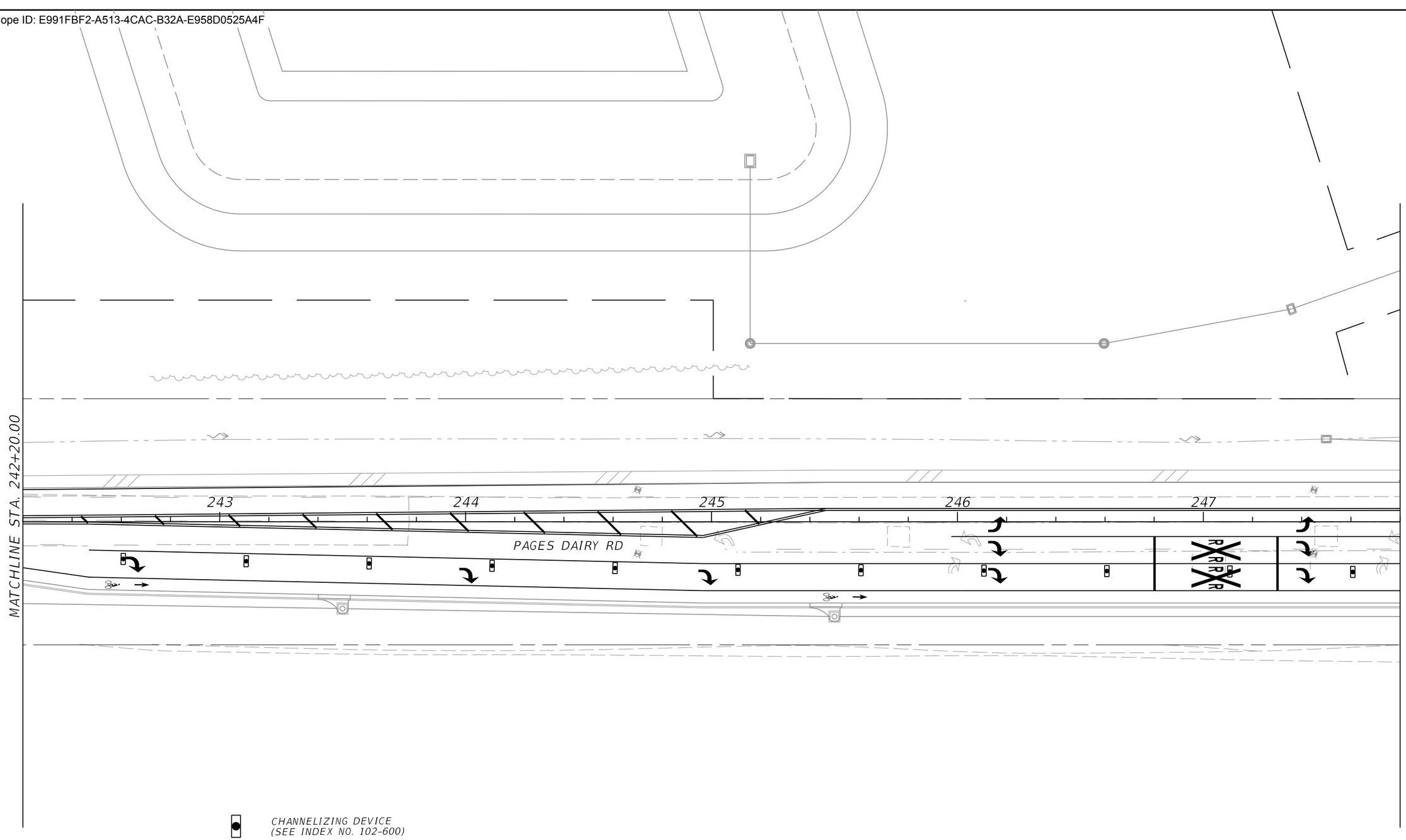
TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 178

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CHANNELIZING DEVICE
(SEE INDEX NO. 102-600)

WORK AREA

TEMPORARY PAVEMENT

LANE IDENTIFICATION

NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

PHASE V

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FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 179

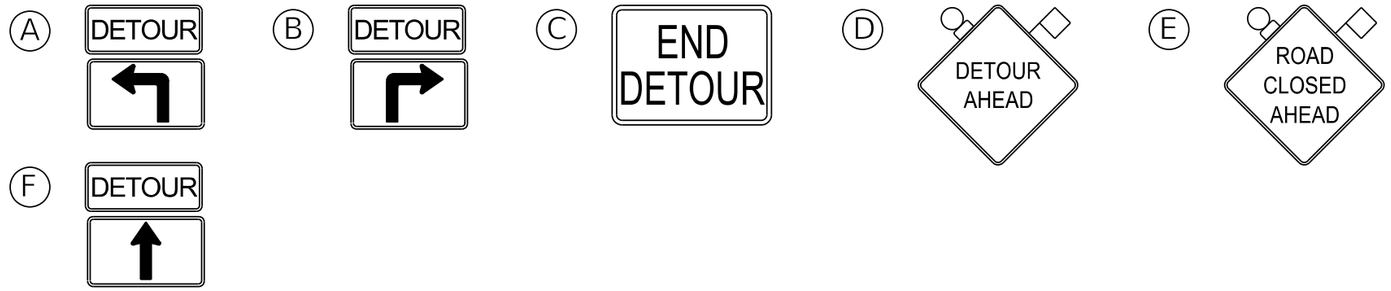
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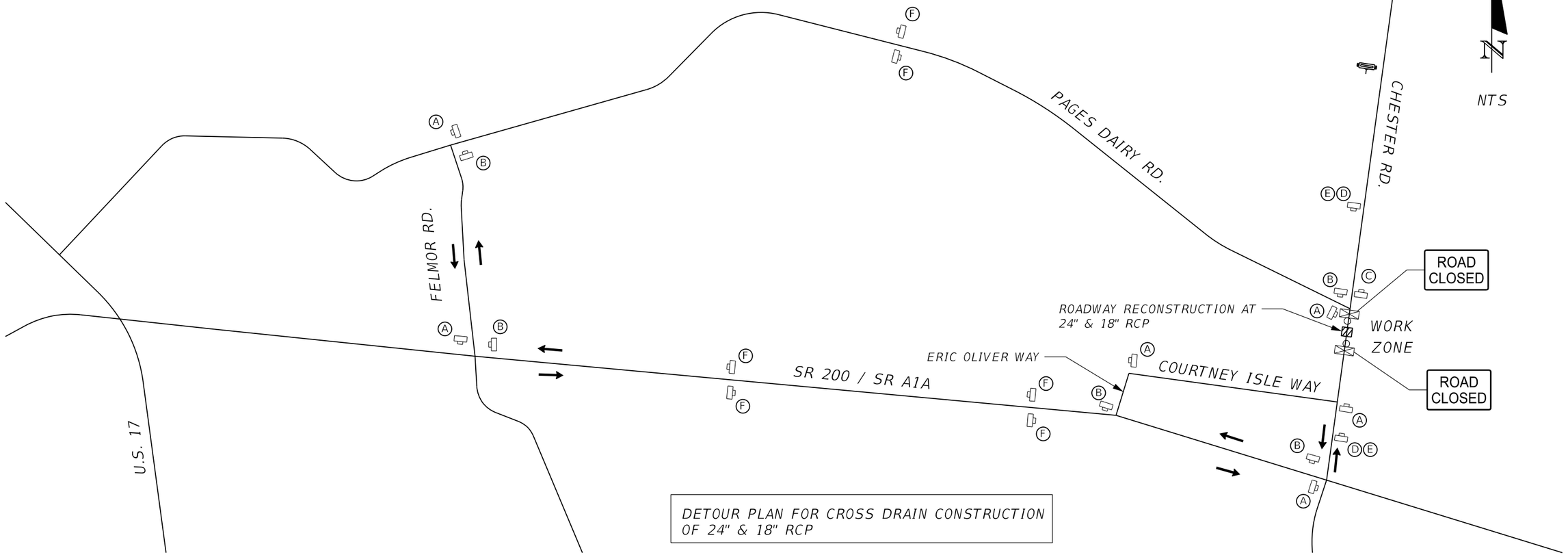
LEGEND

- Orange Flag For TCZ Signs
- Type III Barricade (With Type A Light)
- Work Zone Sign
- Type B Flashing Light
- Variable Message Sign (3 Required)



NOTE: 1) THIS DETOUR FOR THE 18" AND 24" CROSS DRAINS AT THE RAILROAD SHALL BE RESTRICTED TO A SINGLE WEEKDAY EVENT BETWEEN 6PM AND 6AM.

2) NASSAU COUNTY ROAD CLOSURE POLICY SHALL BE FOLLOWED.



DETOUR PLAN FOR CROSS DRAIN CONSTRUCTION OF 24" & 18" RCP

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REVISIONS			
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FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

CHESTER ROAD
DETOUR PLAN - RAILROAD

SHEET NO. 180

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

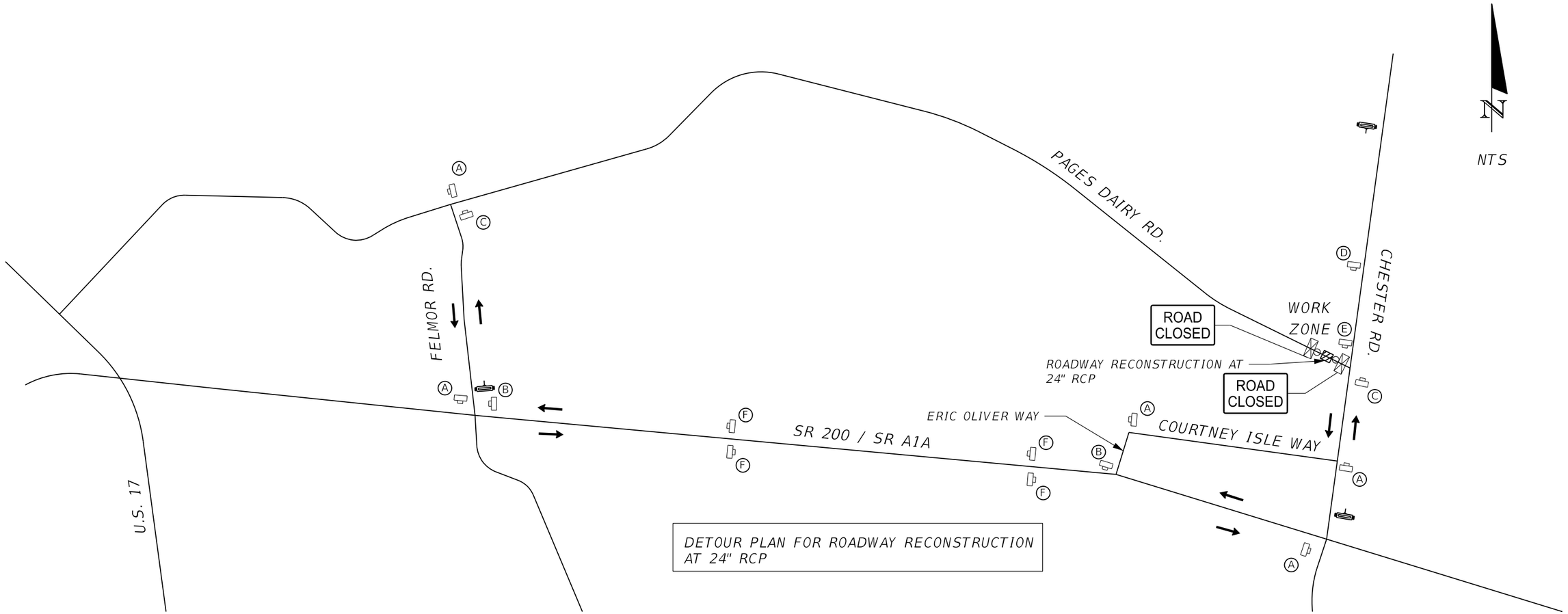
LEGEND

- Orange Flag For TCZ Signs
- Type III Barricade (With Type A Light)
- Work Zone Sign
- Type B Flashing Light
- Variable Message Sign (3 Required)

NOTE: 1) THIS DETOUR FOR THE 24" CROSS DRAIN AT PAGES DAIRY ROAD SHALL BE RESTRICTED TO A SINGLE WEEKDAY EVENT BETWEEN 6PM AND 6AM.

2) NASSAU COUNTY ROAD CLOSURE POLICY SHALL BE FOLLOWED.





DETOUR PLAN FOR ROADWAY RECONSTRUCTION AT 24" RCP

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

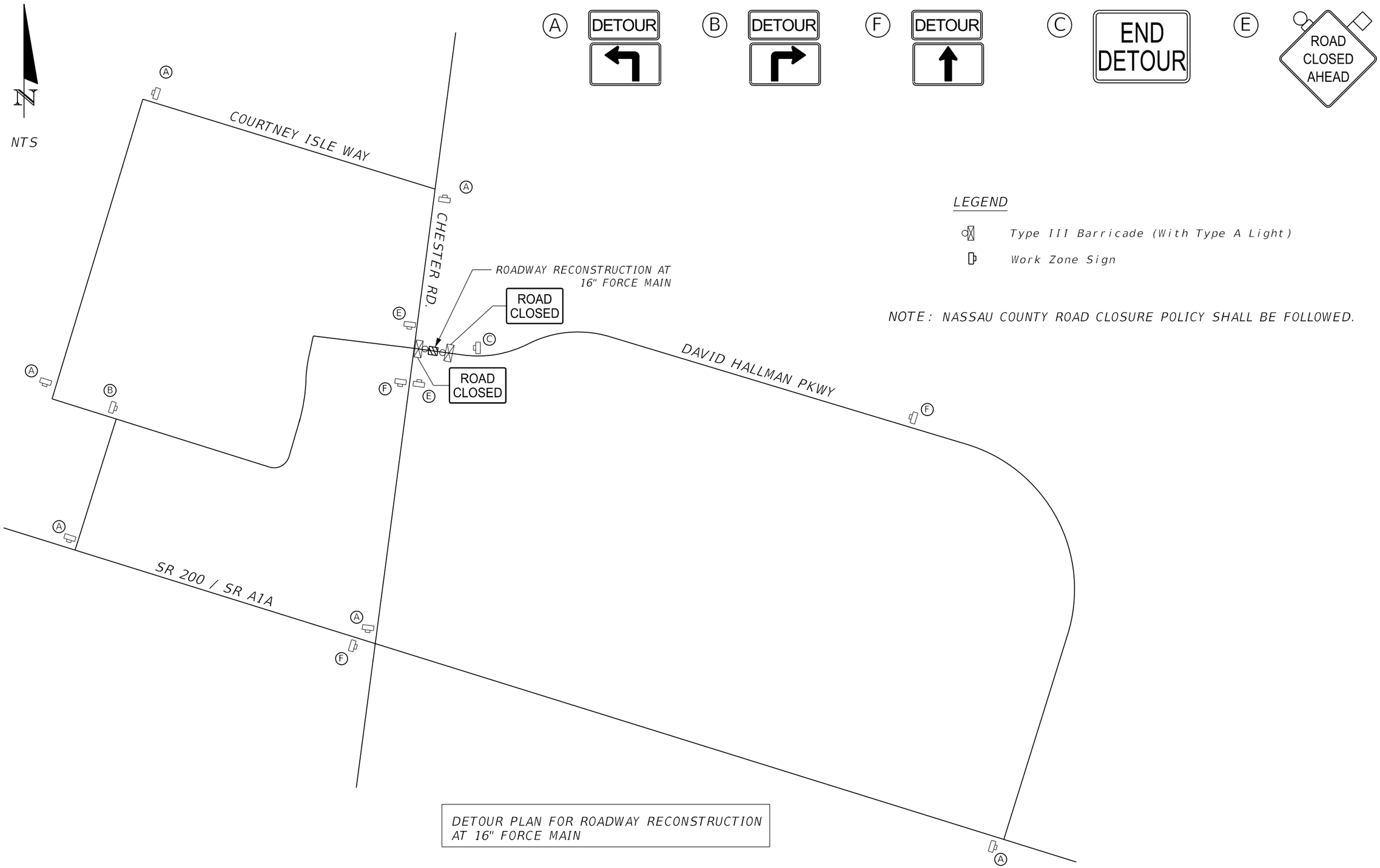
PAGES DAIRY ROAD DETOUR PLAN

SHEET NO. 181

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DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



DETOUR PLAN FOR ROADWAY RECONSTRUCTION
AT 16" FORCE MAIN

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

DAVID HALLMAN PKWY
DETOUR PLAN

SHEET NO. 182

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DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

SUMMARY OF VERIFIED UTILITIES

Vvh #	UTILITY DESCRIPTION (Owner, Type)	SIZE (In.)	MATERIALS	℄ and/or ℄			EXISTING GROUND ELEVATION	TOP ELEVATION	COMMENTS
				STATION	OFFSET	LT/RT			
501	AT&T	0.5	DBC	1233+52.24	44.80	LT	29.9	27.9	
502	FDOT	2	PVC	1233+52.10	45.42	LT	29.9	27.8	
503	NASSAU COUNTY	30x19	CONCRETE PIPE	1233+52.11	54.24	LT	30.9	28.2	
504	NASSAU COUNTY	30x19	CONCRETE PIPE	1233+38.56	54.04	LT	30.8	28.2	
505	AT&T	1.75	PEP	1233+44.94	63.44	RT	29.6	27.1	
506	AT&T	0.5	DBC	189+62.80	29.74	LT	27.5	25.2	RUNNING WITH VVH#507
507	JEA	18	PVC WM	189+62.91	29.16	LT	27.5	25.2	
508	JEA	12	PVC FM	189+63.66	23.74	LT	26.7	22.2	UNABLE TO VISUALLY VERIFY DUE TO MUD
509	AT&T	0.5	DBC	187+91.05	30.01	LT	27.0	24.1	
510	JEA	18	PVC WM	187+71.42	28.77	LT	26.5	23.7	
511	JEA	12	PVC FM	1242+14.55	31.32	RT	27.5	25.0	
512	COMCAST	2	(2) 2" PEP	1242+30.71	21.87	RT	29.0	17.6	
513	JEA	18	PVC WM	1245+00.93	35.21	LT	26.8	25.4	
514	JEA	18	PVC WM	1247+38.88	33.75	LT	26.3	23.1	
515	JEA	14	PVC FM	1241+06.65	28.62	RT	29.1	25.6	
516	JEA	8	HDPE FM	1238+73.38	62.72	LT	31.0	27.1	
517	JEA	16	PVC WM	1238+43.64	34.79	LT	30.3	26.4	
518	JEA	16	PVC WM	1236+80.74	35.19	LT	29.7	26.0	
519	JEA	16	PVC WM	1241+89.67	34.31	LT	28.2	24.3	
520	JEA	16	PVC WM	1242+13.94	34.99	LT	28.4	24.4	
521	N/A	2	(2) 2" PEP	1242+23.90	41.48	LT	27.7	26.5	
522	JEA	12	PVC FM	185+51.25	33.88	RT	27.8	24.7	
523	JEA	12	PVC FM	1248+90.88	30.33	RT	27.8	21.5	
524	JEA	12	PVC FM	1247+41.93	26.60	RT	27.7	21.2	
525	JEA	12	PVC FM	1245+01.42	24.37	RT	28.2	24.7	
526	JEA	18	PVC WM	186+57.28	29.15	LT	27.1	23.9	
527	JEA	12	PVC FM	186+46.57	37.23	RT	27.1	23.1	
528	HOTWIRE COMMUNICATIONS	1.5	PEP	189+64.37	15.24	LT	27.7	24.3	
529	JEA	12	PVC FM	1240+00.71	25.74	RT	29.9	25.6	
530	JEA	18	PVC WM	1239+99.10	34.75	LT	29.2	25.6	
531	JEA	12	PVC FM	1233+05.05	26.18	RT	30.2	25.1	
532	JEA	12	PVC FM	1238+57.32	25.99	RT	30.3	26.0	
EH 501	-	-	-	1249+03.60	48.06'	LT	-	-	EXPLORATORY; CLEAR
EH 502	-	-	-	185+39.88	44.04'	RT	-	-	EXPLORATORY; CLEAR
EH 503	-	-	-	1248+70.76	50.79'	RT	-	-	EXPLORATORY; CLEAR
EH 504	-	-	-	1234+53.18	59.61'	RT	-	-	EXPLORATORY; CLEAR
EH 505	-	-	-	1233+42.11	54.60'	LT	-	-	EXPLORATORY; CLEAR
EH 506	-	-	-	1233+53.48	49.07'	LT	-	-	EXPLORATORY; CONFLICTS AT VVH 501 & 502
EH 507	-	-	-	1233+40.87	62.98'	RT	-	-	EXPLORATORY; CLEAR

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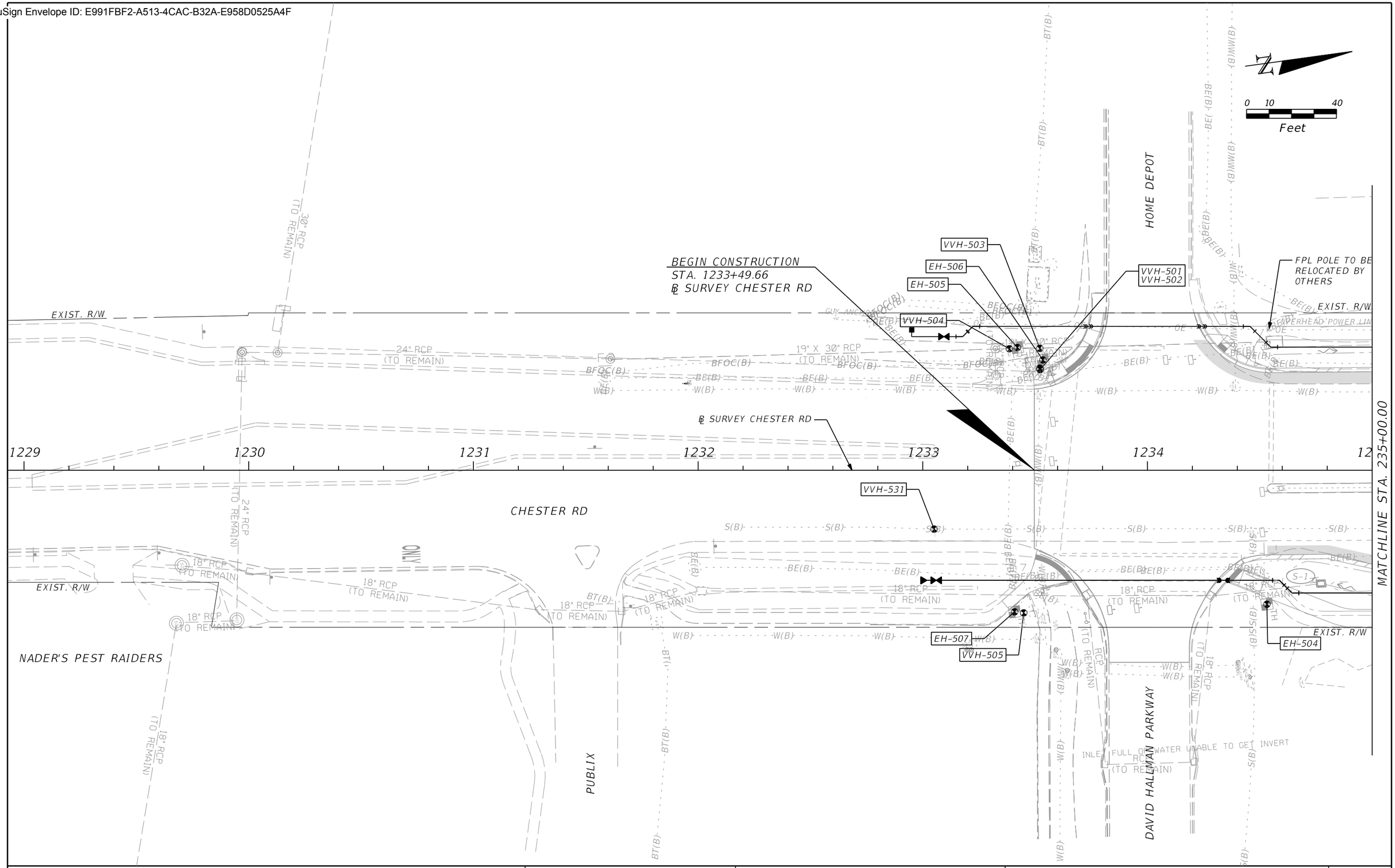
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

SUMMARY OF VERIFIED UTILITIES

SHEET NO. 183

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



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	NASSAU	

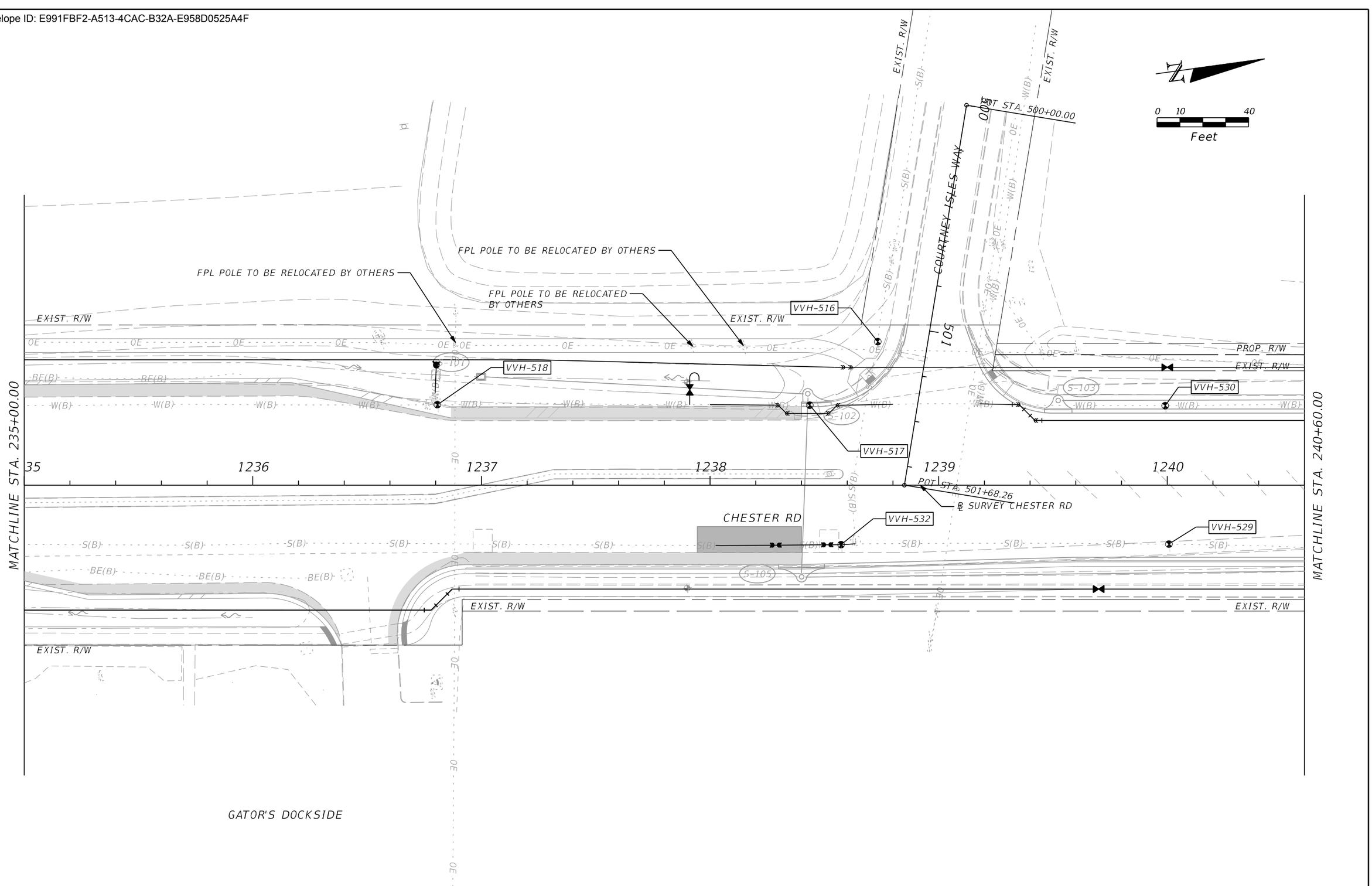
UTILITY ADJUSTMENTS

SHEET NO. 184

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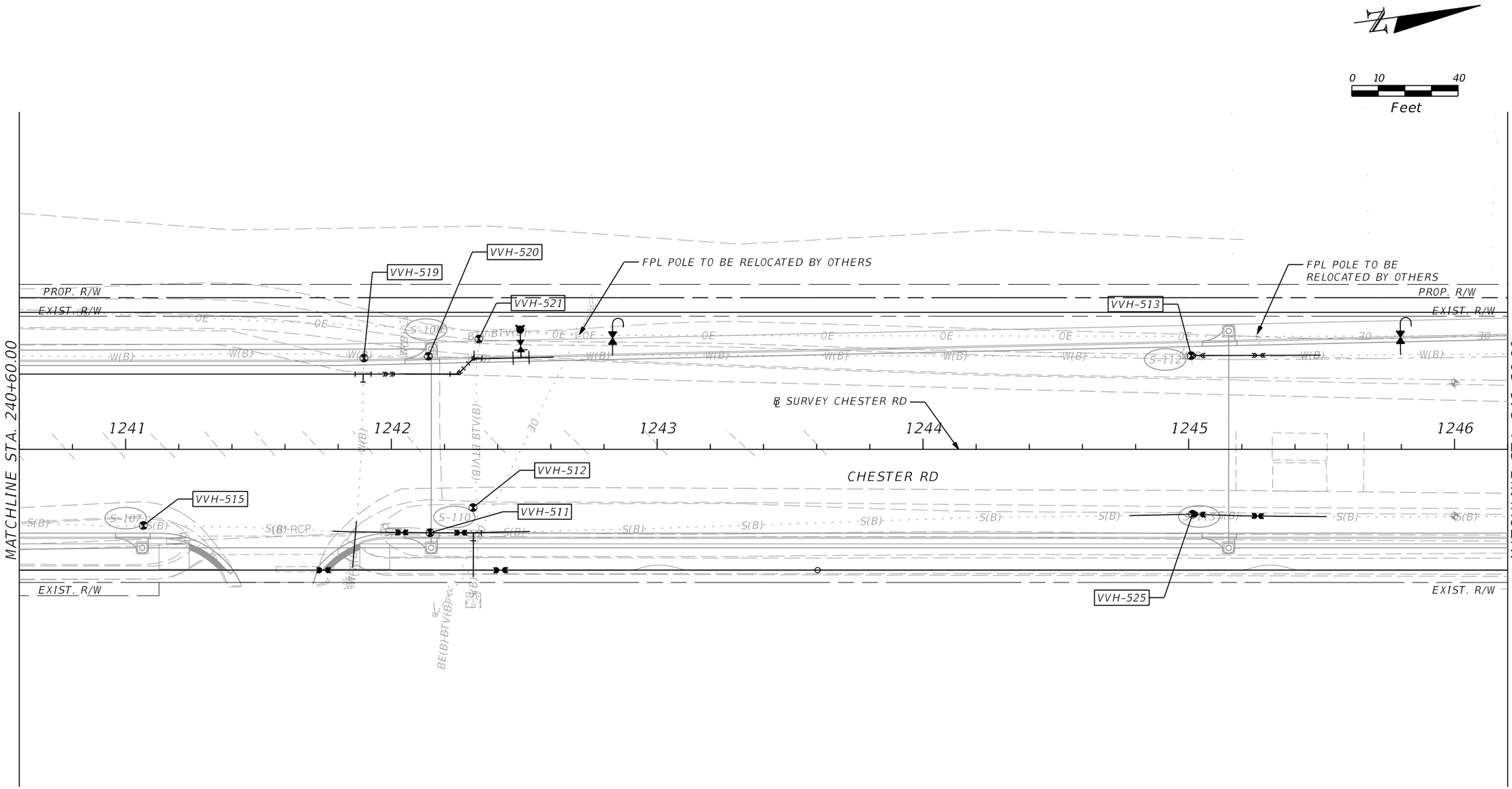
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

UTILITY ADJUSTMENTS

SHEET NO. 185

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



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NASSAU COUNTY ENGINEERING

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UTILITY ADJUSTMENTS

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0 10 40
Feet

FCRD R/W
120'
RAILWAY TRACKS
℄ SURVEY PAGES DAIRY RD
FCRD R/W
PAGES DAIRY ROAD
EXIST. R/W
PROP. R/W
EXIST. R/W
MATCHLINE STA. 246+20.00
MATCHLINE STA. 187+40.00
FPL POLE TO BE RELOCATED BY OTHERS
FPL POLE TO BE RELOCATED BY OTHERS
FPL POLE TO BE RELOCATED BY OTHERS
FPL POLE TO BE RELOCATED BY OTHERS
FPL POLE TO BE RELOCATED BY OTHERS POND 1
VVH-514
EH-501
VVH-526
S-115
S-129
S-130
S-131
S-132
S-304
S-305
S-306
S-202
S-201
1247
1248
1249
186
187
POT STA. 1249+37.34
POT STA. 249+33.87
PI STA. 185+61.57
248
249
N 7° 51' 45" E
CHESTER RD
EQUATION:
Sta 1249+37.34 BK ℄ SURVEY CHESTER RD =
Sta 249+33.87 ℄ SURVEY PAGES DAIRY RD
EQUATION:
Sta 1249+37.34 BK =
Sta 185+10.33 AH
℄ SURVEY CHESTER RD
VVH-524
EH-523
EH-502
EH-503
VVH-522
VVH-527
EXIST. EASEMENT
FIRST COAST RAILROAD
FPL POLE TO BE RELOCATED BY OTHERS
RAILWAY TRACKS
160'
FCRD R/W
FCRD R/W
EXIST. R/W
S-119
S-128
S-133
CHESTER ROAD
ROADWAY DESIGN STA. 1248+21.35
FIRST COAST RAILROAD INC. (FCRD)
AKMD VAL-MAP STA. TBD
AAR\DOT #620804A
RR MP: 39.06

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

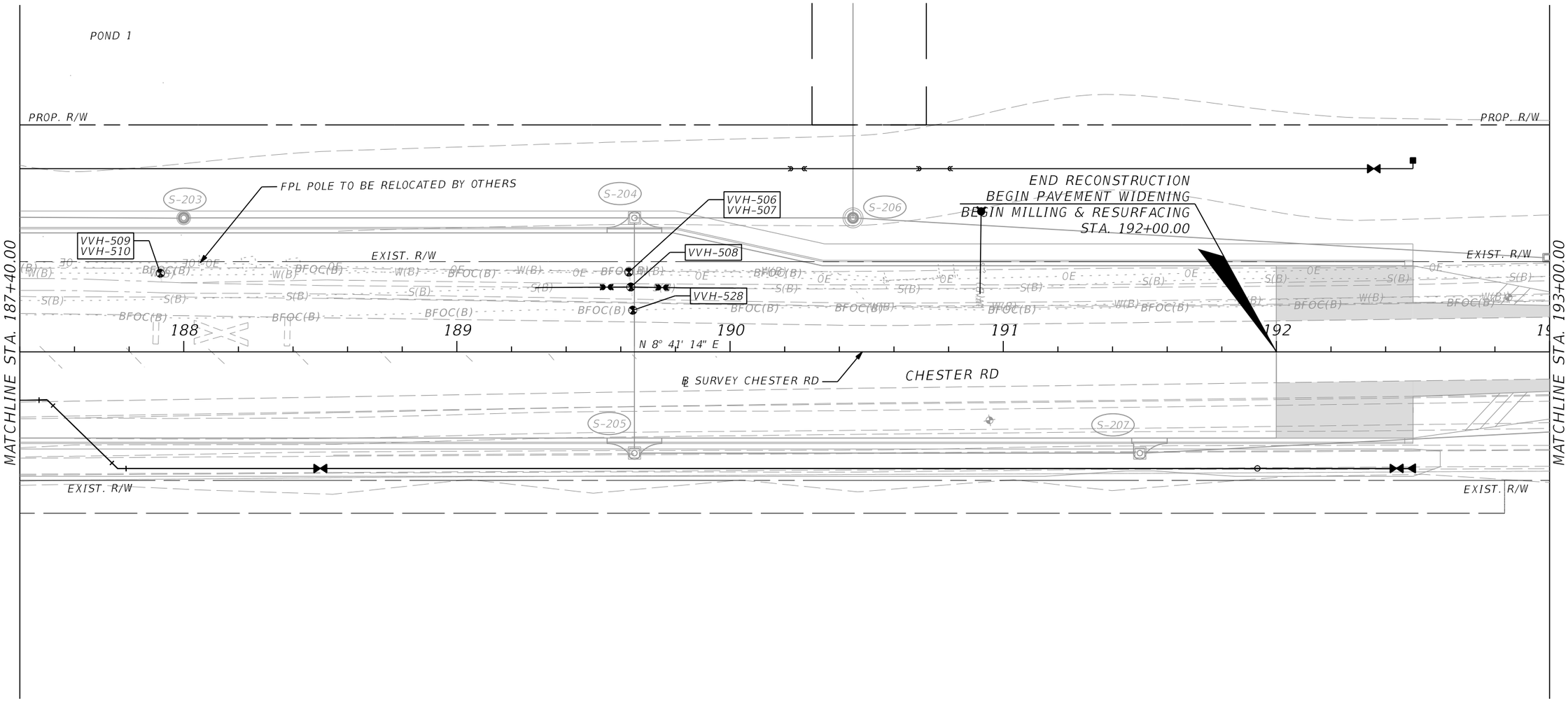
UTILITY ADJUSTMENTS

SHEET NO. 187

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Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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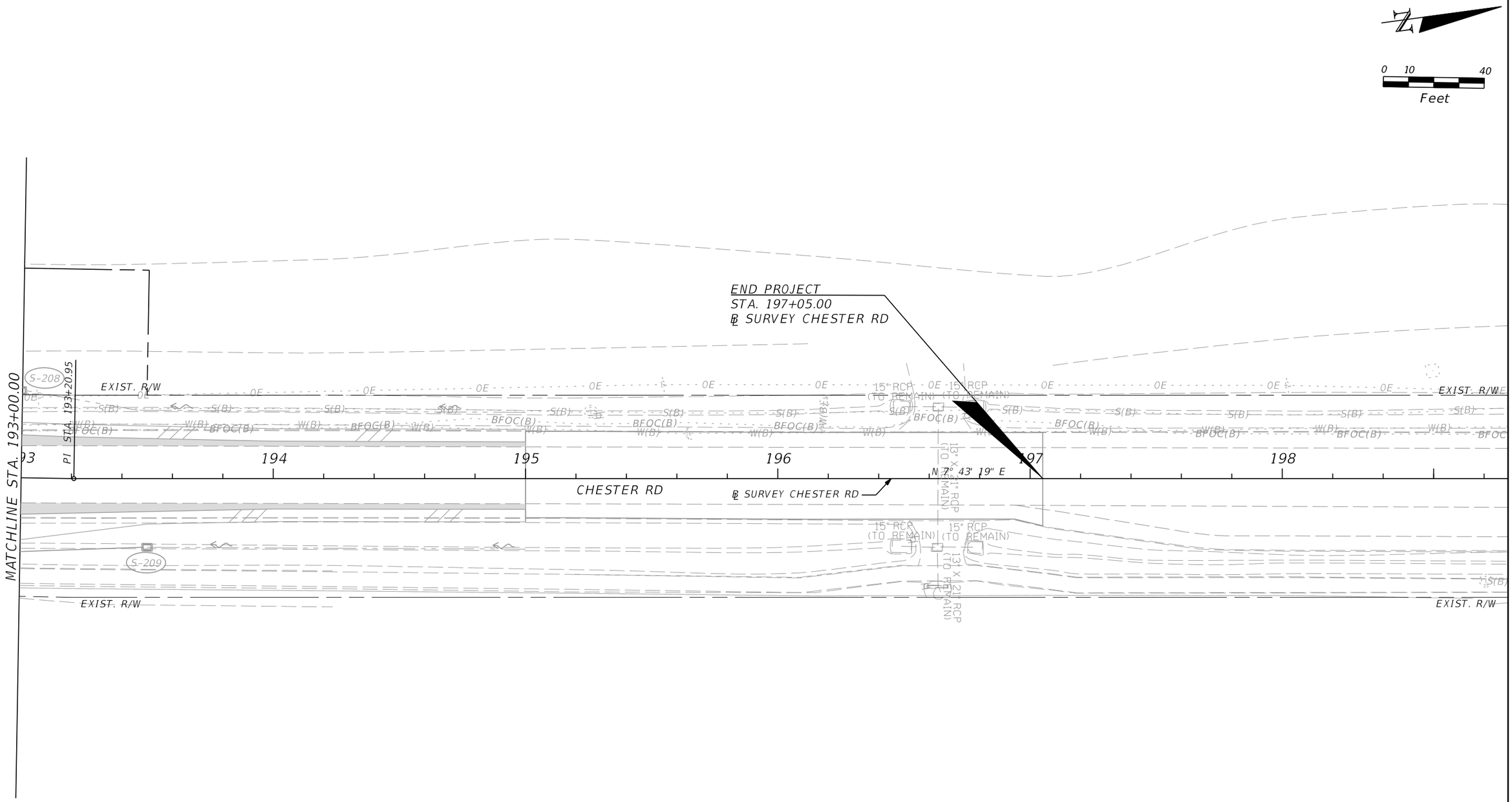
UTILITY ADJUSTMENTS

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Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

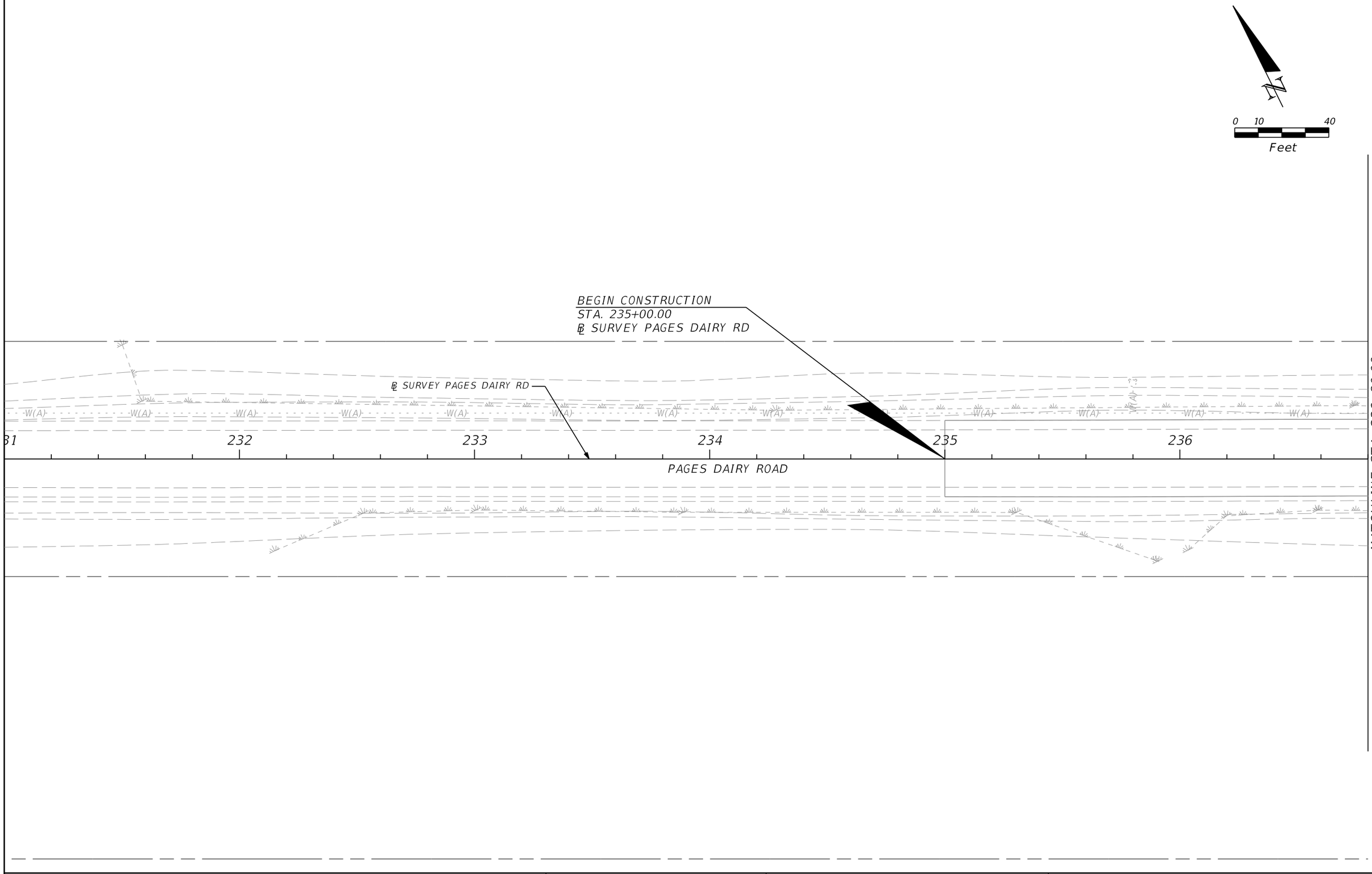
UTILITY ADJUSTMENTS

SHEET NO. 189

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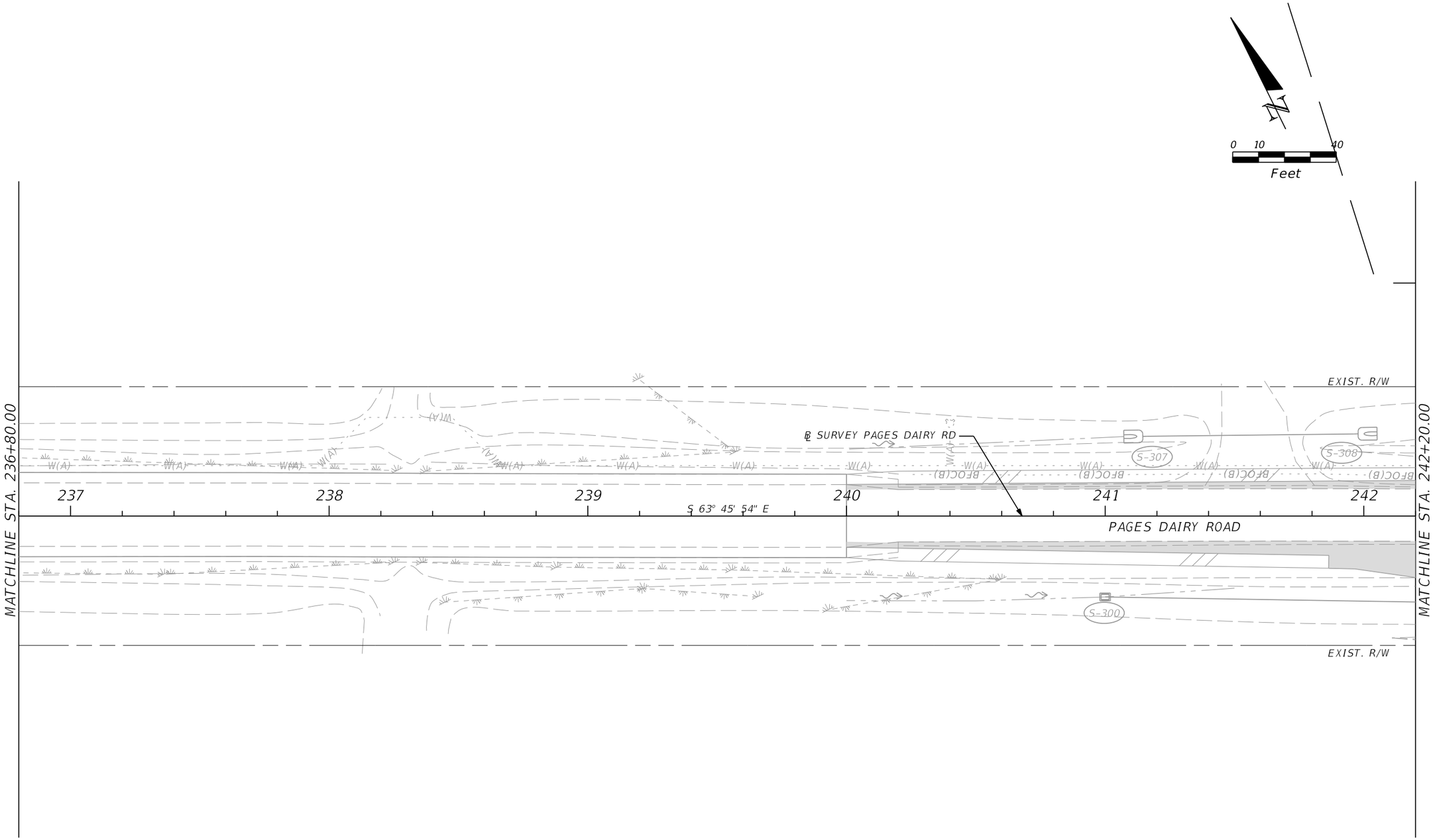
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

UTILITY ADJUSTMENTS

SHEET NO. 190

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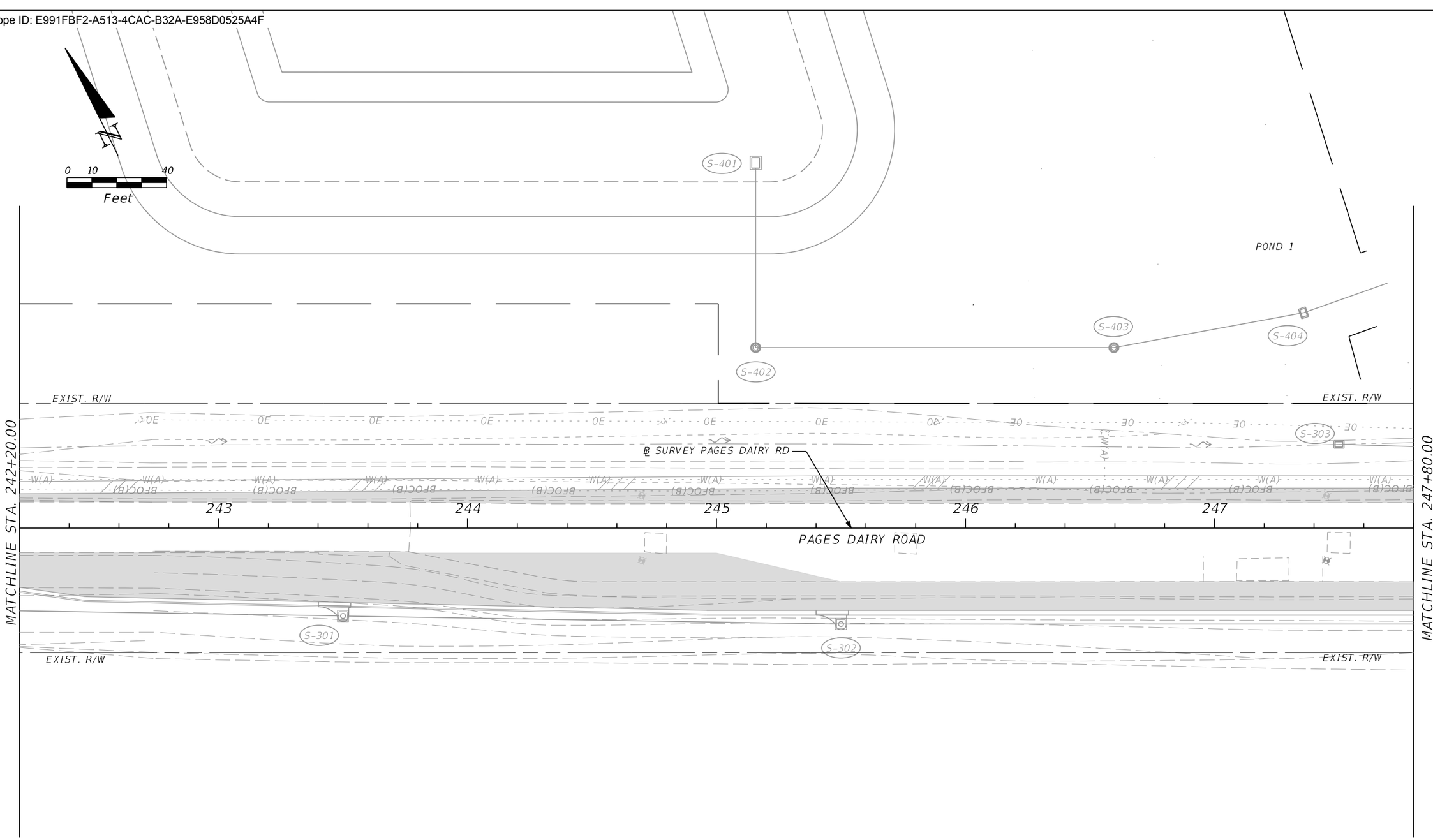
UTILITY ADJUSTMENTS

SHEET NO. 191

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10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

UTILITY ADJUSTMENTS

SHEET NO. 192

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TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																TOTAL THIS SHEET		REF SHEET
			S-1		S-2		S-3		S-4		S-5		S-6		S-7		S-8		S-9				
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	
700-1-11	Single Post Sign, F&I Ground Mount, Up to 12 SF	AS	2		5		4		7		5		1						2		26		
700-1-50	Single Post Sign, Relocate	AS			1																1		
700-1-60	Single Post Sign, Remove	AS	1		1		4		5		3								2		16		
710-11-290	Painted Pavement Markings, Standard, Yellow, Island Nose	SF	7		7				99												113		
*	Retro-Reflective Pavement Markers, Y/Y	EA			13		17		17		38		10		6		23		28		152		
*	Retro-Reflective Pavement Markers, W/R	EA	10		59		37		46		43		10						32		237		
*	Retro-Reflective Pavement Markers, B/B	EA			1		1				1		1								4		
711-11-123	Thermoplastic, Standard, White, Solid, 12" for Crosswalk	LF	569		98		105		840												1612		
	and Roundabout																						
711-11-124	Thermoplastic, Standard, White, Solid, 18" for Diagonals	LF					8				267		6								281		
	and Chevrons																						
711-11-125	Thermoplastic, Standard, White, Solid, 24" for Stop Line	LF	618		13		49		701										44		1425		
	and Crosswalk																						
711-11-141	Thermoplastic, Standard, White, 2-4 Dotted Guideline	GM	0.008		0.059						0.066		0.038								0.171		
711-11-160	Thermoplastic, Standard, White, Message or Symbol	EA	2		5		6		9		4								4		30		
711-11-170	Thermoplastic, Standard, White, Arrow	EA	4		10		7		16		4								11		52		
711-11-224	Thermoplastic, Standard, Yellow, Solid, 18" for Diagonal	LF			106		222		238		416		19				17		93		1111		
	or Chevron																						
711-16-131	Thermoplastic, Standard-Other Surfaces	GM	0.008		0.168		0.212		0.081		0.040										0.509		
	White, Skip, 6", 10-30 Skip Or 3-9 Lane Drop																						
711-16-231	Thermoplastic, Standard, Yellow,	GM							0.031												0.031		
	2-4 Dotted Guide Line/6-10 Dotted Ext. Line, 6"																						
711-16-101	Thermoplastic, Standard, White, Solid, 6"	GM	0.079		0.321		0.254		0.394		0.401		0.184		0.087		0.205		0.348		2.273		
711-16-201	Thermoplastic, Standard, Yellow, Solid, 6"	GM	0.041		0.247		0.321		0.273		0.424		0.248		0.087		0.289		0.326		2.256		

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

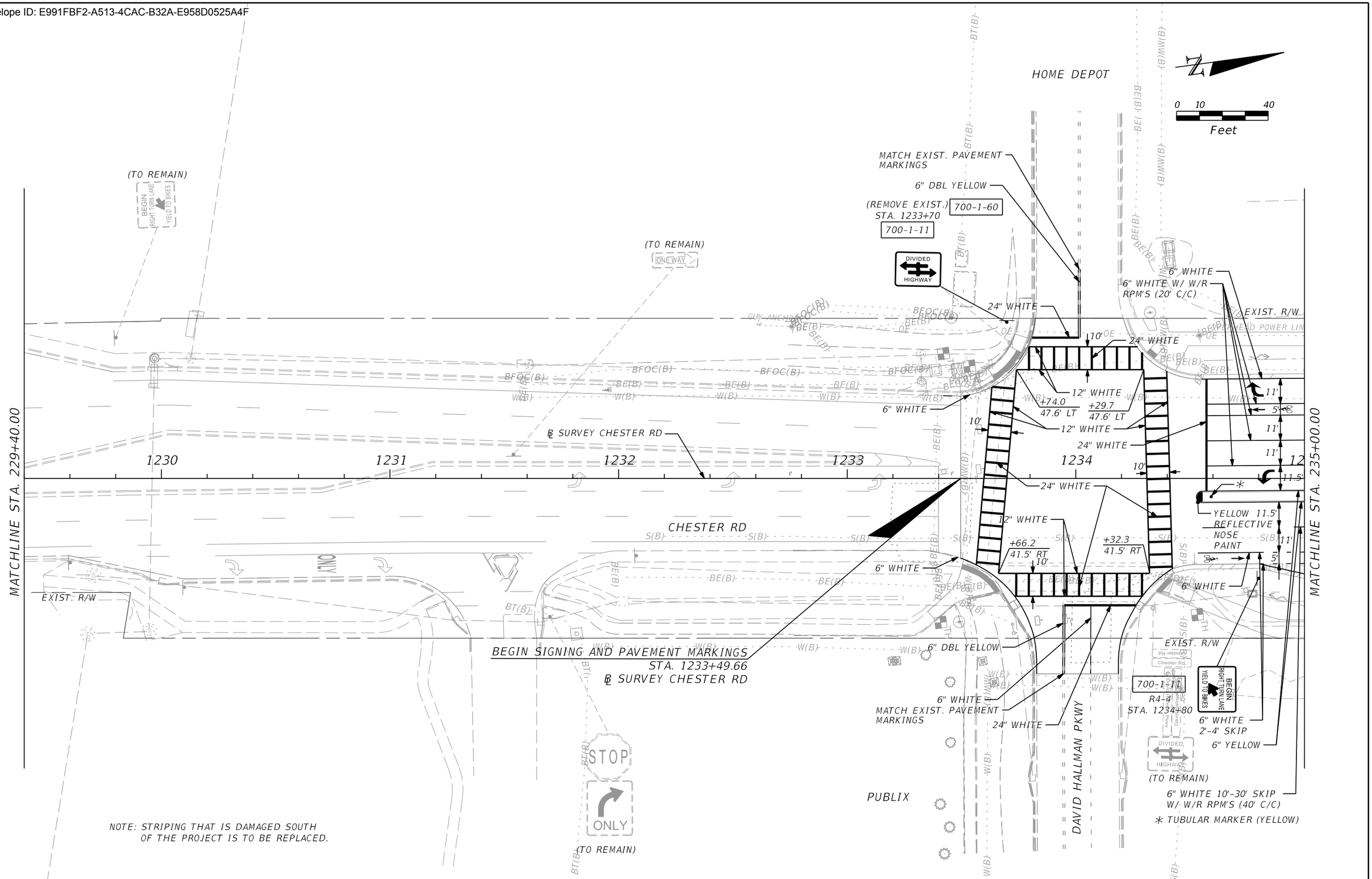
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TABULATION OF QUANTITIES

SHEET NO. 193

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



REVISIONS			
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Connelly & Wicker Inc.
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NASSAU COUNTY ENGINEERING

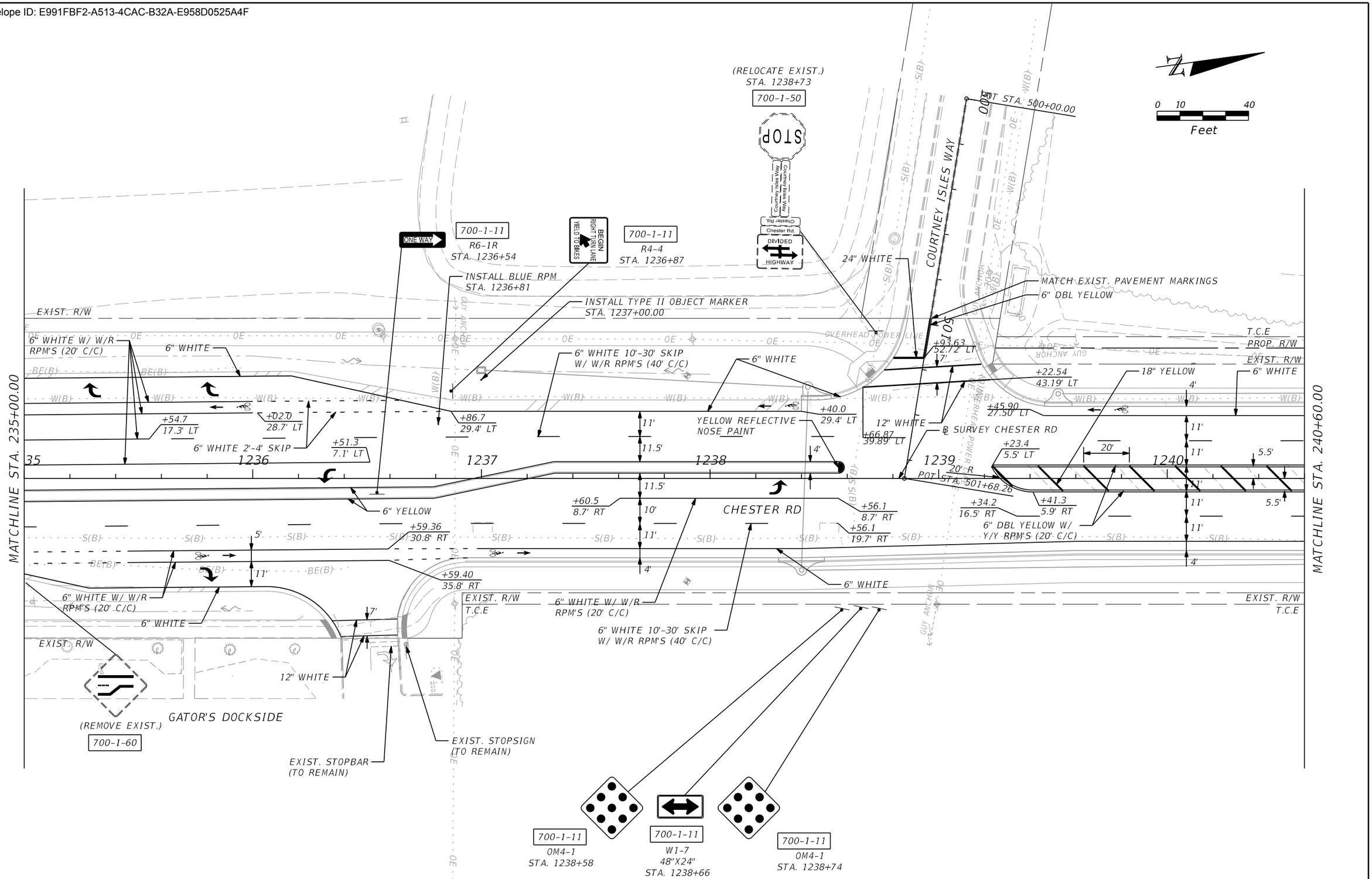
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

SIGNING & PAVEMENT MARKING PLAN (1)

SHEET NO. 194

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

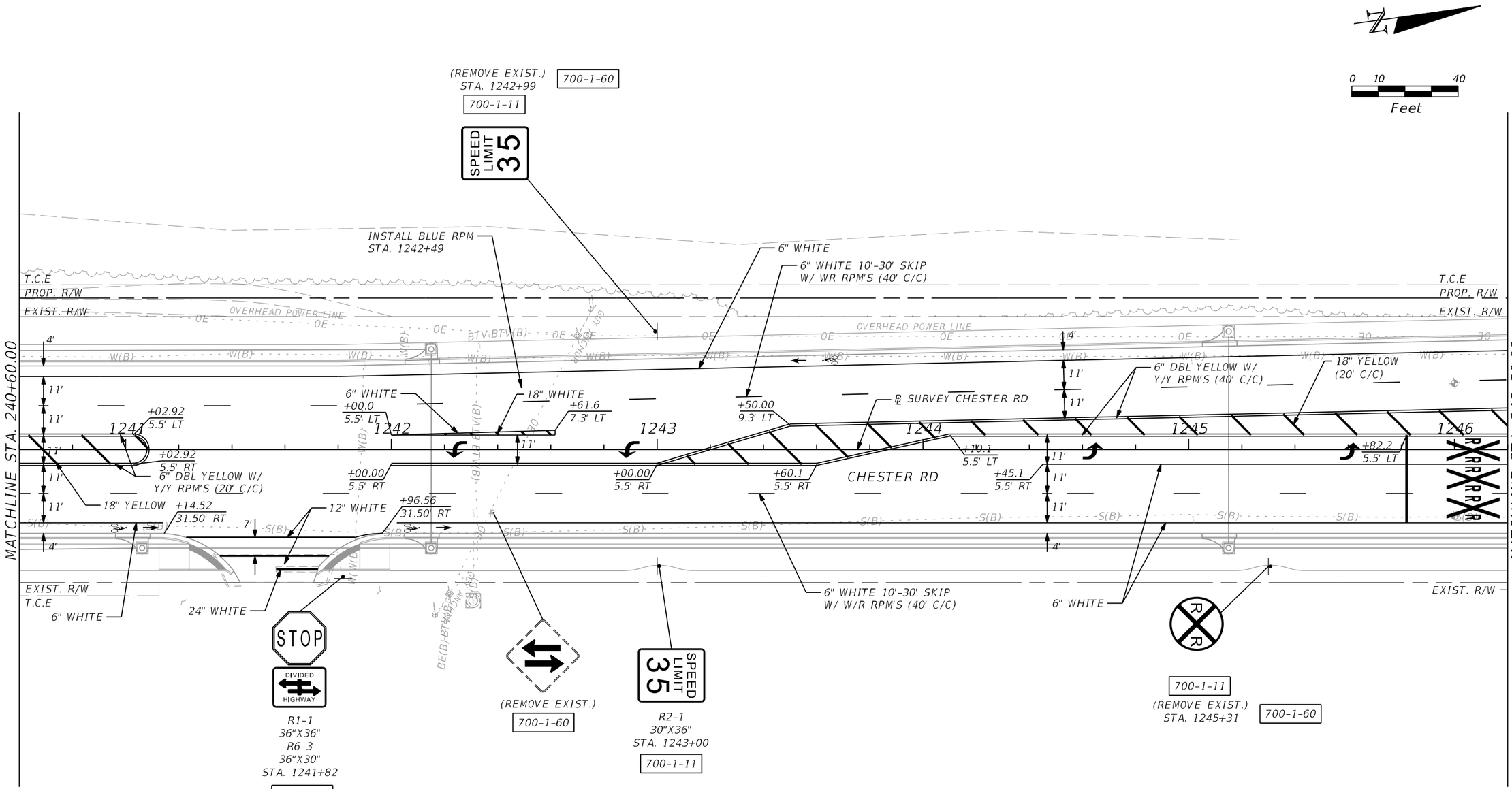
SIGNING & PAVEMENT MARKING PLAN (2)

SHEET NO. 195

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

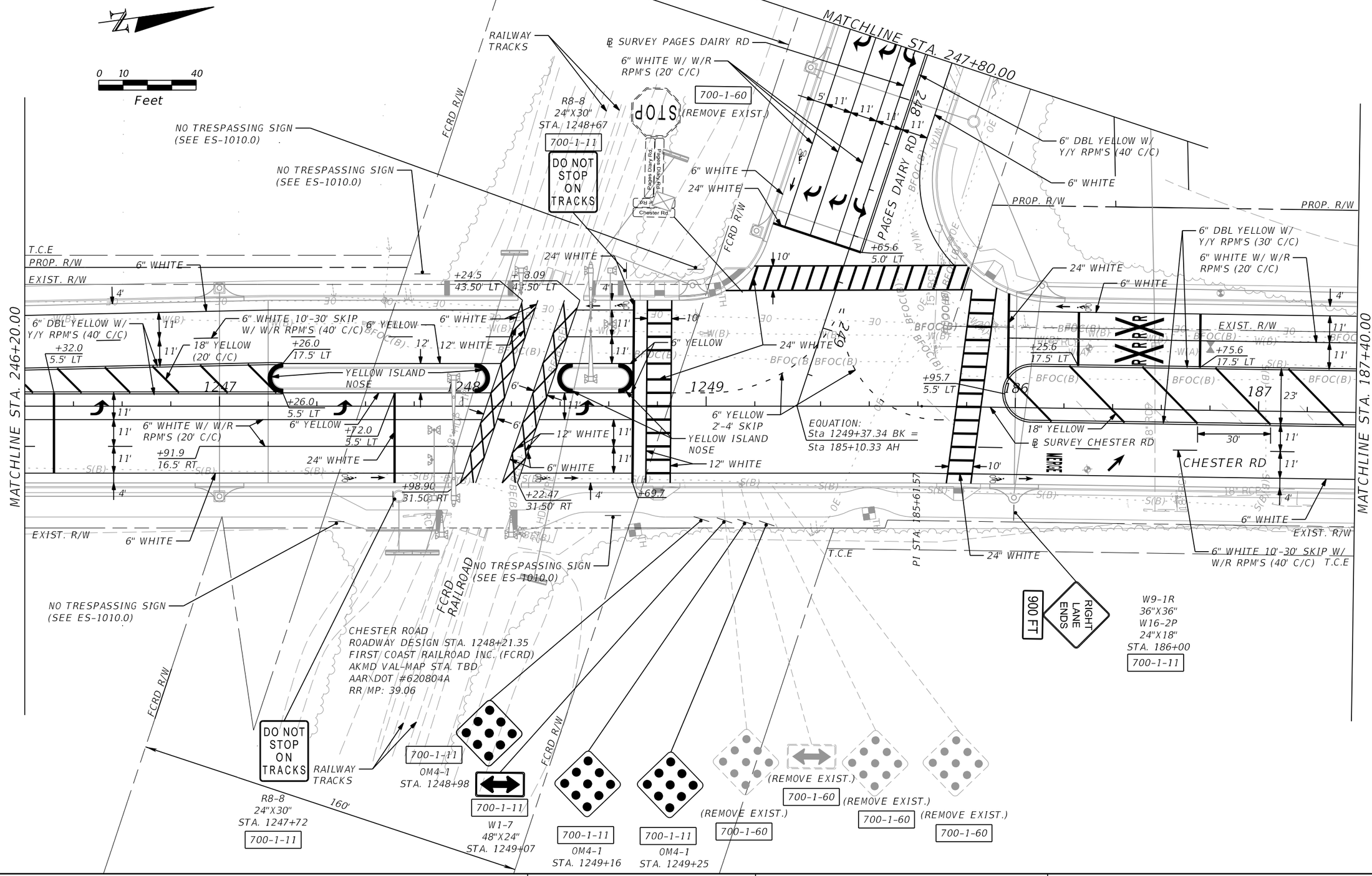
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

SIGNING & PAVEMENT MARKING PLAN (3)

SHEET NO. 196

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



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REVISIONS			
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Jacksonville, FL 32246
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FL P.E. No. 73903

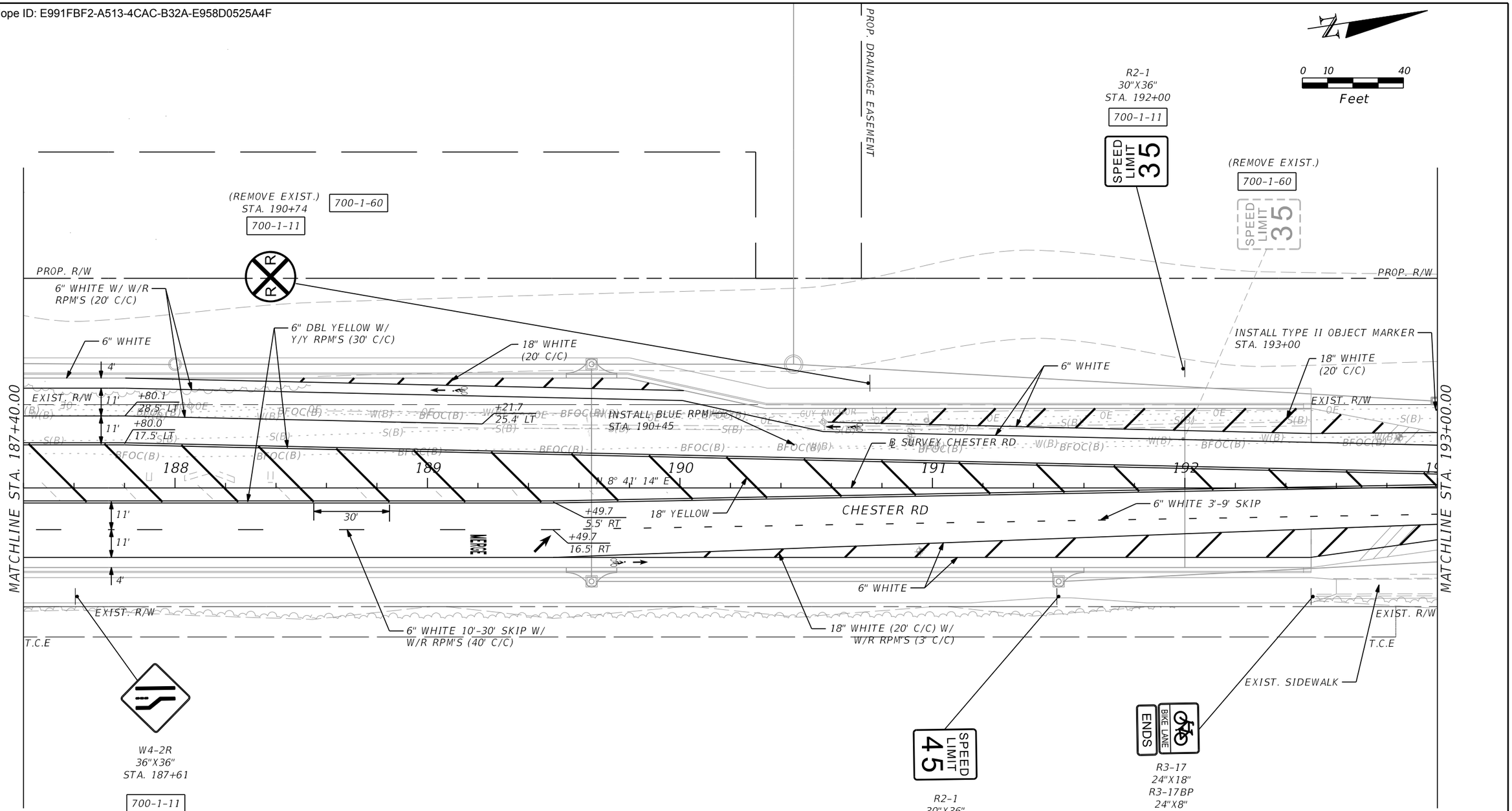
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

SIGNING & PAVEMENT MARKING PLAN (4)

SHEET NO. 197

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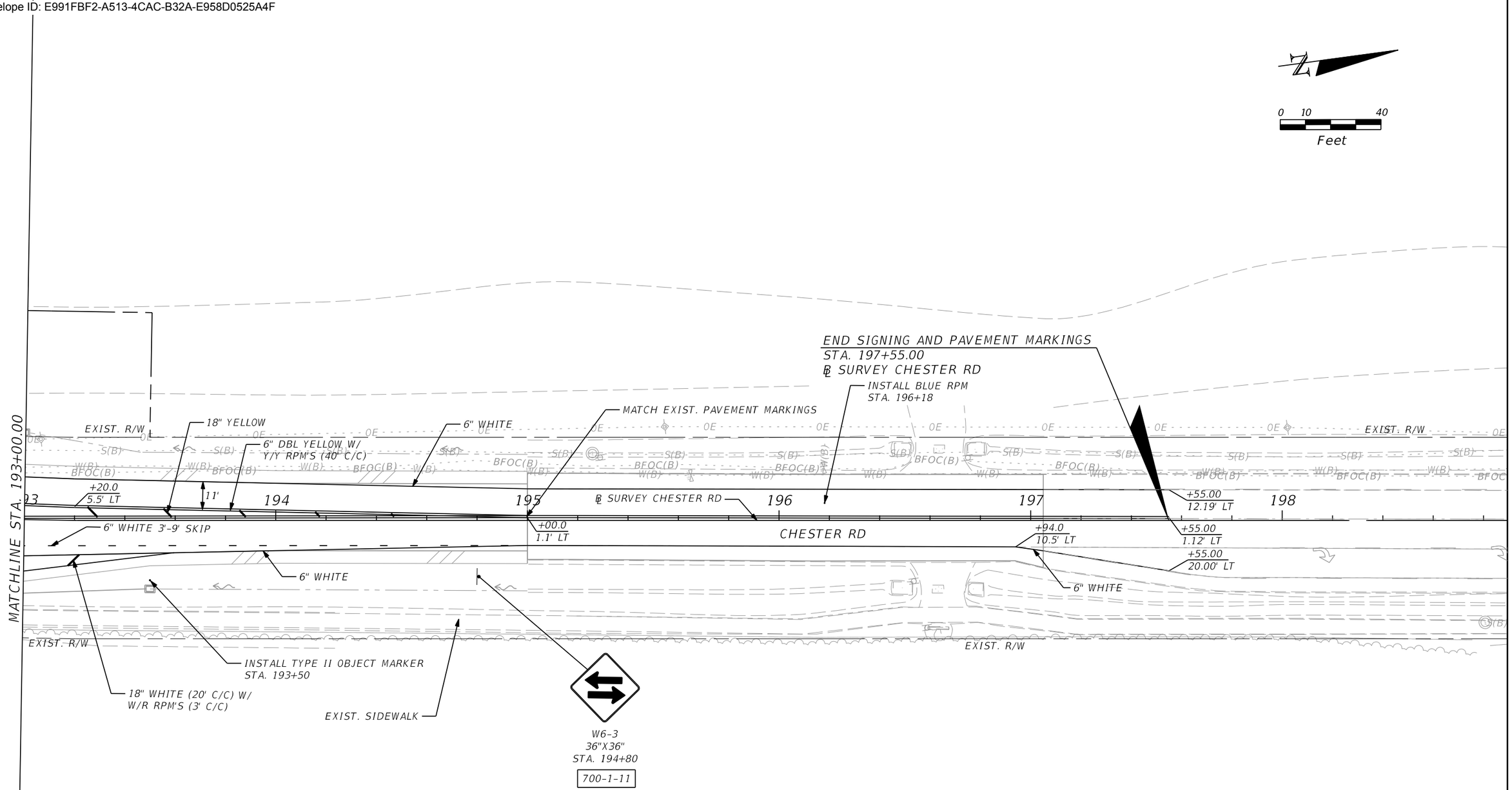
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

SIGNING & PAVEMENT MARKING PLAN (5)

SHEET NO. 198

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NASSAU COUNTY ENGINEERING

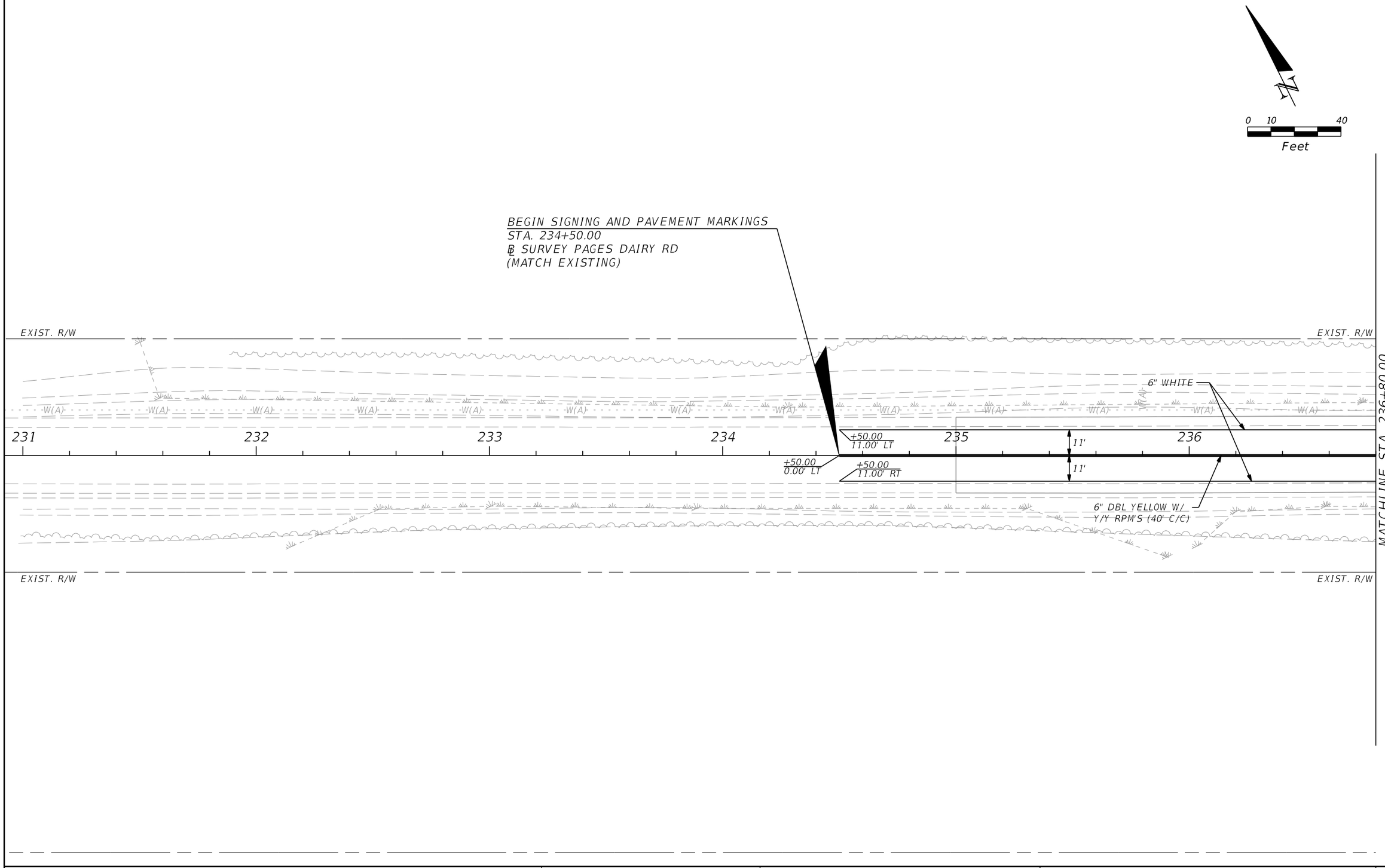
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

SIGNING & PAVEMENT MARKING PLAN (6)

SHEET NO. 199

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FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

SIGNING & PAVEMENT MARKING PLAN (7)

SHEET NO. 200

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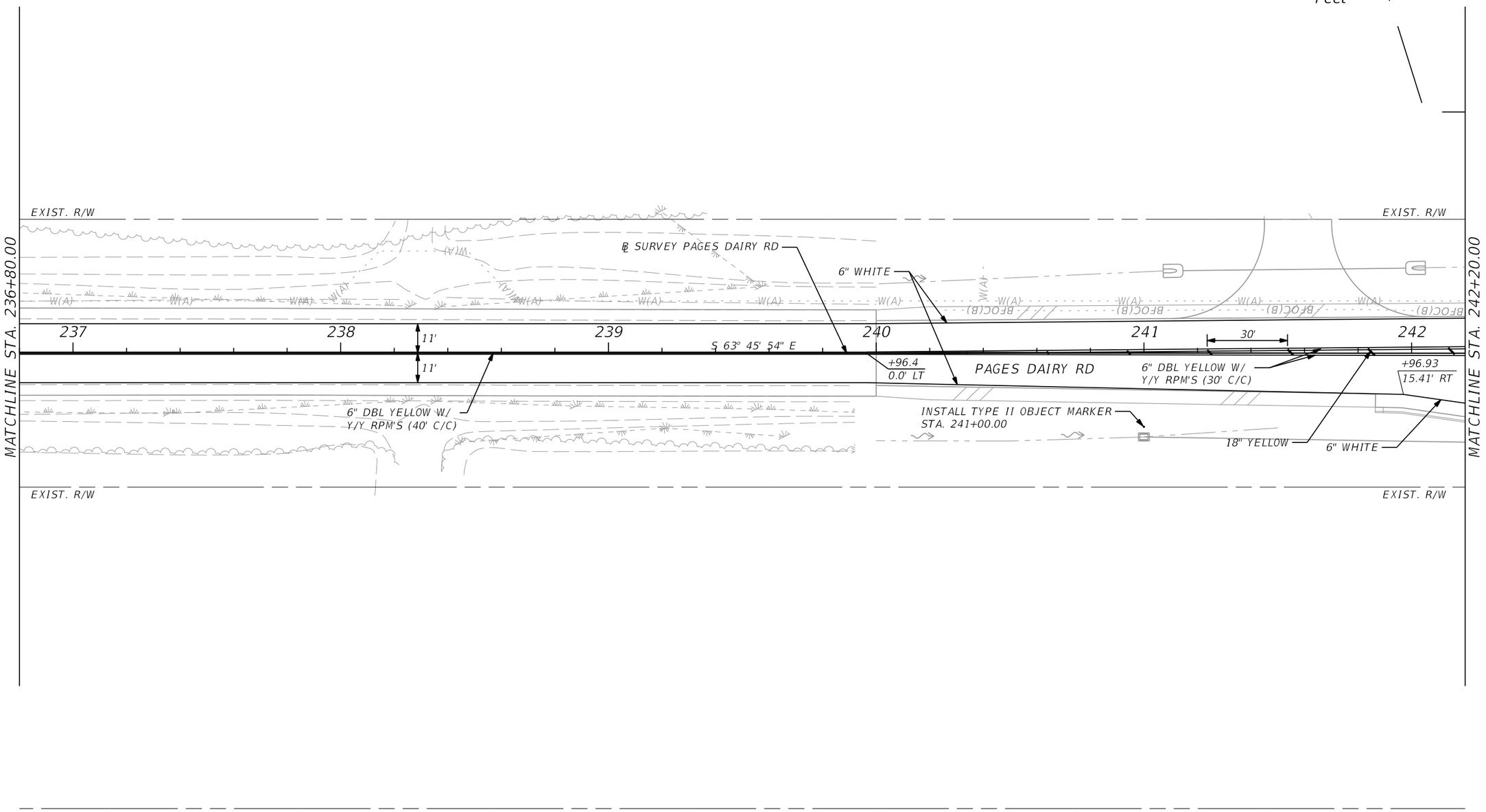
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PROP. DRAINAGE EASEMENT

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0 10 40
Feet



REVISIONS			
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NASSAU COUNTY ENGINEERING

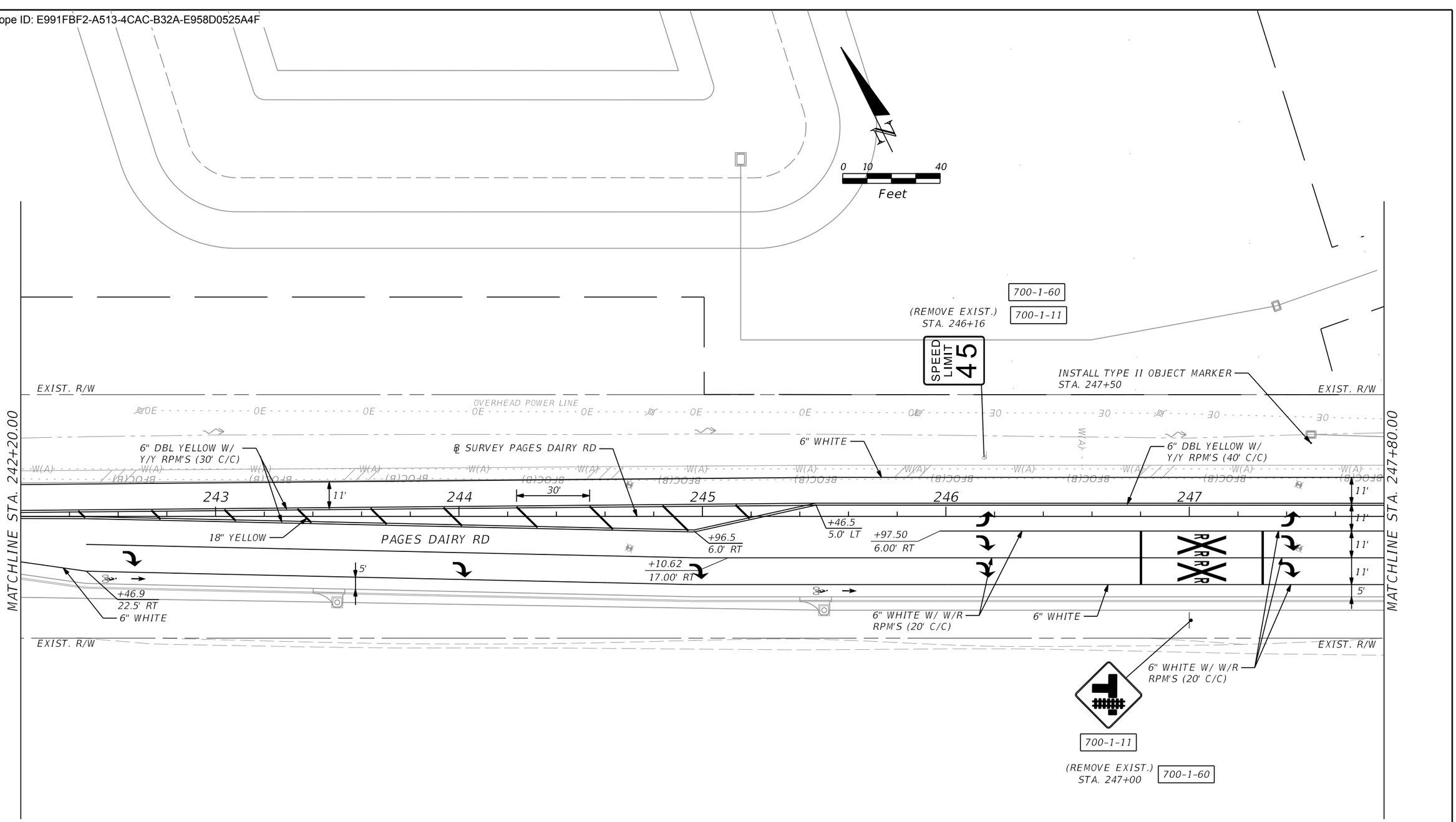
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

SIGNING & PAVEMENT MARKING PLAN (8)

SHEET NO. 201

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

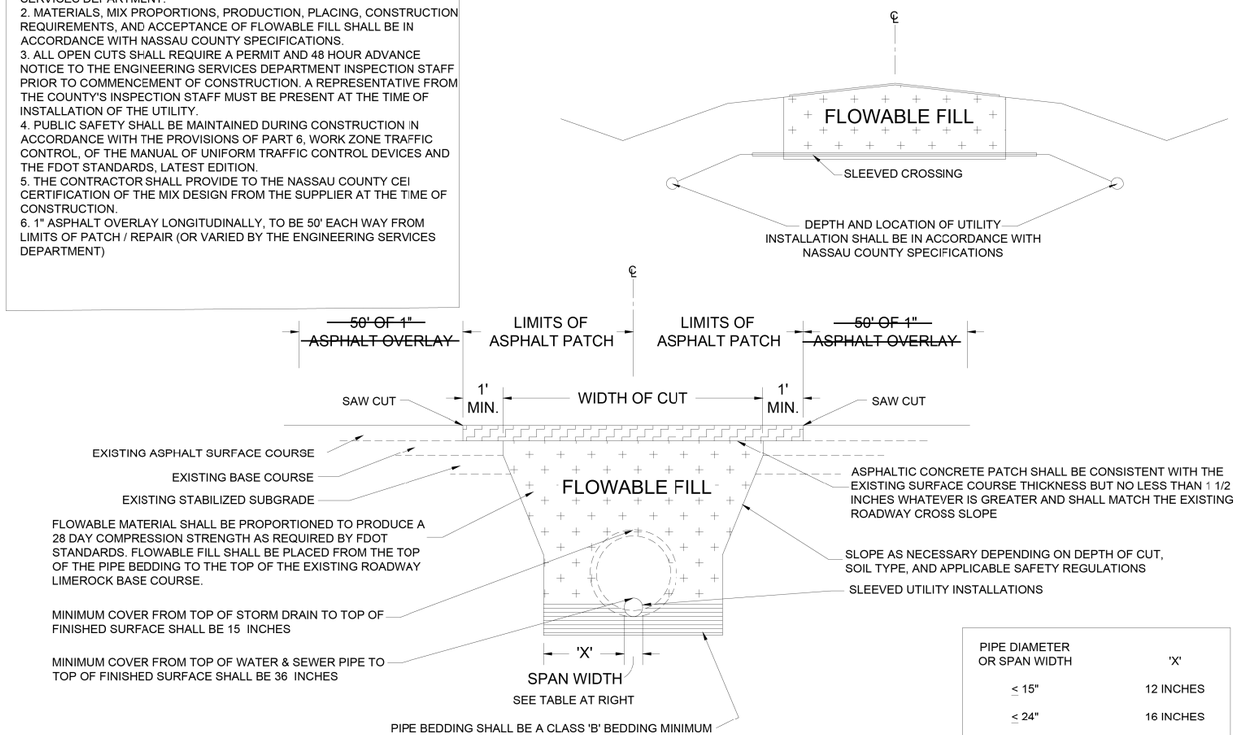
SIGNING & PAVEMENT MARKING PLAN (9)

SHEET NO. 202

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NOTES:
1. OPEN ROAD CUTS ARE GENERALLY NOT AN ACCEPTABLE MEANS OF CONSTRUCTION UNLESS APPROVED IN ADVANCE BY THE ENGINEERING SERVICES DEPARTMENT.
2. MATERIALS, MIX PROPORTIONS, PRODUCTION, PLACING, CONSTRUCTION REQUIREMENTS, AND ACCEPTANCE OF FLOWABLE FILL SHALL BE IN ACCORDANCE WITH NASSAU COUNTY SPECIFICATIONS.
3. ALL OPEN CUTS SHALL REQUIRE A PERMIT AND 48 HOUR ADVANCE NOTICE TO THE ENGINEERING SERVICES DEPARTMENT INSPECTION STAFF PRIOR TO COMMENCEMENT OF CONSTRUCTION. A REPRESENTATIVE FROM THE COUNTY'S INSPECTION STAFF MUST BE PRESENT AT THE TIME OF INSTALLATION OF THE UTILITY.
4. PUBLIC SAFETY SHALL BE MAINTAINED DURING CONSTRUCTION IN ACCORDANCE WITH THE PROVISIONS OF PART 6, WORK ZONE TRAFFIC CONTROL, OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND THE FDOT STANDARDS, LATEST EDITION.
5. THE CONTRACTOR SHALL PROVIDE TO THE NASSAU COUNTY CEI CERTIFICATION OF THE MIX DESIGN FROM THE SUPPLIER AT THE TIME OF CONSTRUCTION.
6. 1" ASPHALT OVERLAY LONGITUDINALLY, TO BE 50' EACH WAY FROM LIMITS OF PATCH / REPAIR (OR VARIED BY THE ENGINEERING SERVICES DEPARTMENT)



PIPE DIAMETER OR SPAN WIDTH	'X'
≤ 15"	12 INCHES
≤ 24"	16 INCHES
≤ 30"	24 INCHES
> 30"	36 INCHES

ROADWAY AND DRAINAGE STANDARDS NASSAU COUNTY PUBLIC WORKS ENGINEERING SERVICES DEPARTMENT	REVISION DATES		OPEN ROAD CUTS / FLOWABLE FILL	DETAIL NO. 15 DWG: ADOPTED:

NOTE: PAVEMENT – TYPE SP ASPHALT CONCRETE, 1.5"

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
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FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

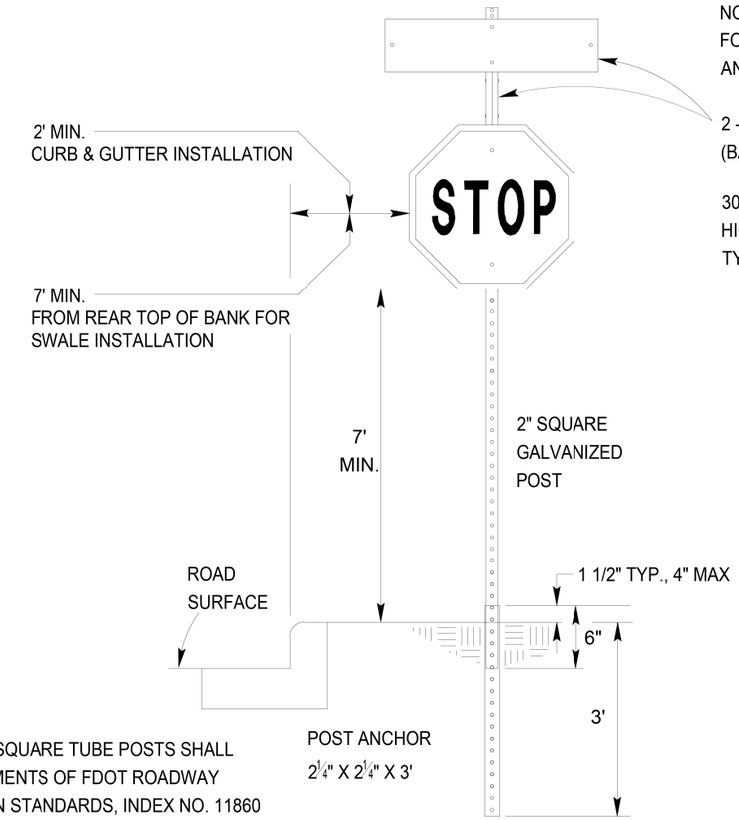
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

NASSAU COUNTY STANDARD DETAIL NO. 15

SHEET NO. 203

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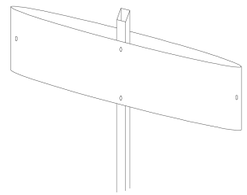
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NOTE: LEAVE 2 HOLES FROM TOP OF POST FOR THE INSTALLATION OF CAPS, DEAD END AND NO OUTLET SIGN IF NEEDED.

2 - 9" STREET MARKER BLADES (BACK TO BACK)

30" X 30" STOP SIGN (MIN.)
HIGH INTENSITY PRISMATIC SHEETING
TYP.



SIGN BLANKS ARE RIVETED TOGETHER AND RIVETED TO THE POST.

NOTES:

GALVANIZED STEEL SQUARE TUBE POSTS SHALL MEET THE REQUIREMENTS OF FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS, INDEX NO. 11860

SIGN PLACEMENT SHALL MEET THE REQUIREMENTS OF FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS, INDEX NO. 17302.



6" UPPER AND
4½" LOWER CASE

3" U.C. LETTERING AND NUMBERS

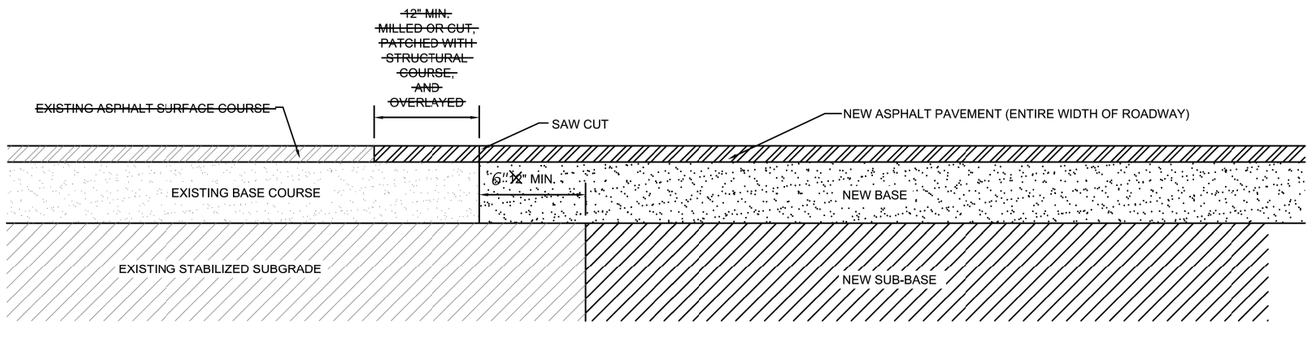
SHEETING - GREEN E C FILM OVER HIGH INTENSITY PRISMATIC, SILVER (PRIVATE- BLUE SHEETING)
SIGN BLANKS - 0.080 ALUMINUM
9"X42" TYP.

ROADWAY AND DRAINAGE STANDARDS NASSAU COUNTY PUBLIC WORKS ENGINEERING SERVICES DEPARTMENT	REVISION DATES	STOP AND STREET MARKER COMBINATION TYPICAL INSTALLATION	DETAIL NO. 21
			DWG:
			ADOPTED:

REVISIONS				Connelly & Wicker Inc. 10060 Skinner Lake Dr., Suite 500 Jacksonville, FL 32246 Certification of Authorization No. 3650 Engineer of Record: Daniel R. Waltermyer, P.E. FL P.E. No. 73903	NASSAU COUNTY ENGINEERING			NASSAU COUNTY STANDARD DETAIL NO. 21	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						NASSAU			204

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NOTES:

1. ENTIRE WIDTH OF THE ROADWAY SHALL BE OVERLAYED.
2. MILLING AND OVERLAY OF THE ENTRIE ROADWAY WIDTH MAY BE REQUIRED AS DETERMINED BY THE ENGINEERING SERVICES DEPARTMENT

ROADWAY AND DRAINAGE STANDARDS NASSAU COUNTY ENGINEERING SERVICES DEPARTMENT	REVISION DATES	SAWCUT DETAIL	DETAIL NO. 26 DWG: ADOPTED:

NOTE: APPLIES TO TYPICAL SECTION NO. 1 AND NO. 2

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

NASSAU COUNTY STANDARD DETAIL NO. 26

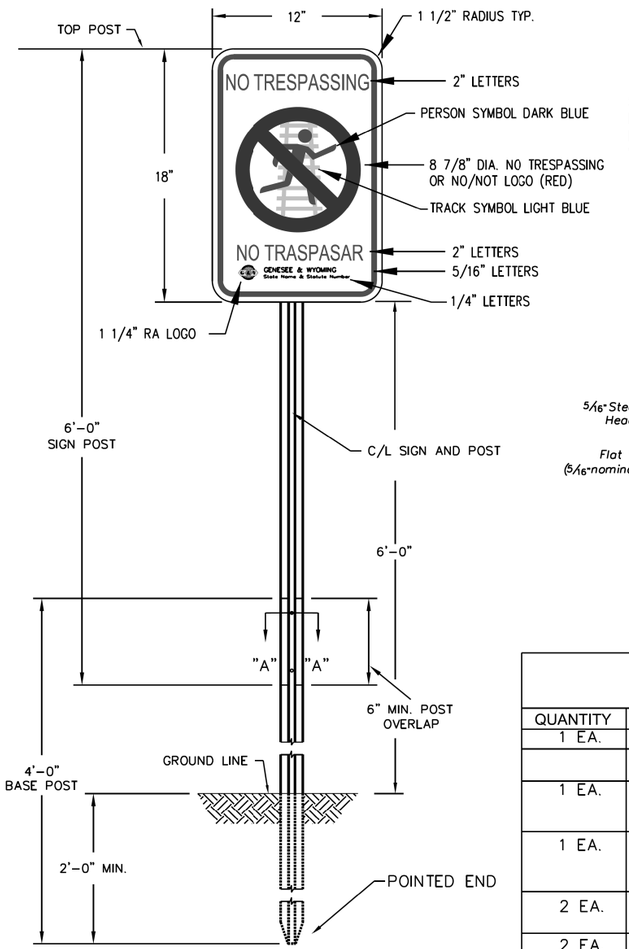
SHEET NO. 205

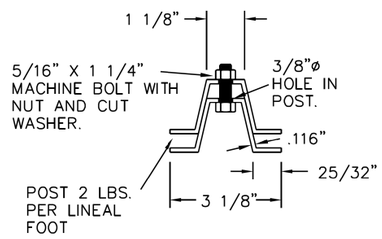
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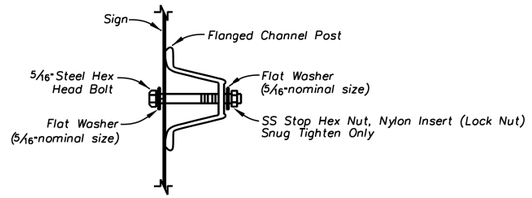
FILE
ES1010.0
REVISIONS
09-26-2011 XRL/TJF
07-03-2013 XRL/GRC

EXAMPLE 1





DETAIL "A"



SIGN ATTACHMENT DETAIL

SIGNS:

NO. 1010

"NO TRESPASSING"
"GENESEE & WYOMING"

NO TRESPASSING SIGN IS USED TO WARN THE PUBLIC AGAINST TRESPASSING ON COMPANY PROPERTY. LETTERED & MOUNTED SIGN AS SHOWN IN EXAMPLE 1. PLACE SIGN ON R/W PROPERTY LINE, FACING OUTSIDE, EVERY 500 FT. OR AS DIRECTED BY GENERAL MANAGER.

NOTES:

1. THE SIGN LISTED IN THIS PLAN IS 12"X18" SIZED, WITH WHITE BACKGROUND, WITH BLUE/RED LETTERS/NUMBERS, ONE SIDE ONLY, AS SHOWN IN EXAMPLE 1. ALL WITH 3/8" BLACK BORDER & 3/8" MARGIN.
2. WHEN SIGN POSTS ARE USED, SIGNS ARE TO BE PLACED NO CLOSER THAN 14'-0" FROM CENTER LINE OF TRACK, WHERE PRACTICAL.
3. SIGN TO BE CONSTRUCTED FROM 0.08" ALUMINUM, WITH MULTI-COLORED SCREENED FACE, ONE SIDE ONLY.
4. DETAIL OF 1/4" LETTERS "GENESEE & WYOMING" "STATE STATUTE XXXXXX)" ALL LETTERING & PERSON SYMBOL ARE TO BE SHOWN IN DARDK BLUE, TRACK SYMBOL TO BE SHOWN IN LIGHT BLUE.

BILL OF MATERIALS

QUANTITY	SIGN PANEL	ITEM NUMBER
1 EA.	SIGN NO. 10 – NC TRESPASSING...RA	ITEM No. 01C421
	POST AND HARDWARE	
1 EA.	2 LB. PER LIN. FT. GALVANIZED FLANGED CHANNEL STEEL BASE POST, 4'–0" LONG WITH 3/8" DIA. MOUNTING HOLES, 1" CENTERS, WITH POINTED END.	
1 EA.	2 LB. PER LIN. FT. GALVANIZED FLANGED CHANNEL STEEL SIGN POST, 6'–0" LONG WITH 3/8" DIA. MOUNTING HOLES, 1" CENTERS, WITH POINTED END.	
2 EA.	5/16" DIA. x 2" GALVANIZED ROUND HEAD SQUARE NECK MACHINE BOLT, ALL THREAD, WITH LOCK NUT AND NYLON WASHER.	
2 EA.	MOUNTING BOLTS 5/16" DIA. x 1 1/4" GALVANIZED HEX HEAD MACHINE BOLT WITH LOCK NUT AND GALVANIZED WASHER FOR SECURING THE BASE POST & SIGN POST.	

GENESEE & WYOMING
ENGINEERING DESIGN
STANDARDS REFERENCE MANUAL

Issue Date: 03-01-2009 | Revised Date: 07-03-2013

Authorized: Jeannette L. Romaine
AVP-Engineering Design

The material and equipment shown herein must meet or exceed all quality requirements. Any deviation from these standards must be submitted in writing and approved by the Regional V.P. of Engineering and A.V.P. Engineering Design prior to use.

Right of Way Signs
SERIES 1000

NO TRESPASSING SIGN

ES1010.0
SH. 1 OF 2

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

GENESEE & WYOMING
STANDARD DETAIL ES-1010.0

SHEET NO. 206

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NASSAU COUNTY ENGINEERING

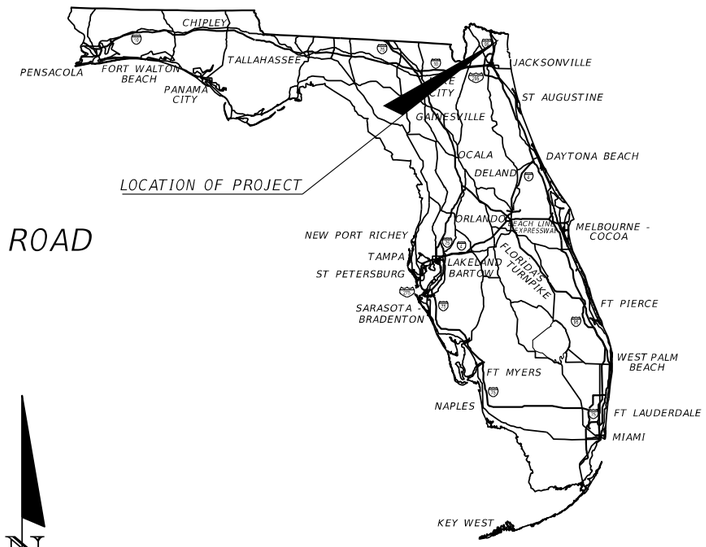
CONTRACT PLANS

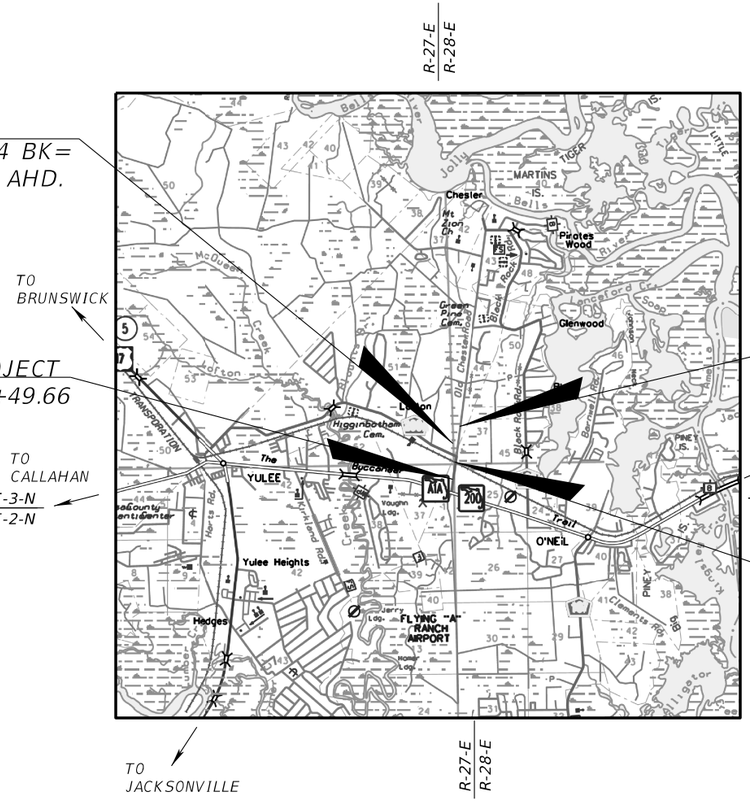
INDEX OF UTILITY PLANS

SHEET NO.	SHEET DESCRIPTION
U-1	KEY SHEET
U-2	GENERAL NOTES
W-1 - W-6	JEA WATER PLAN/PROFILE
S-1 - S-6	JEA FORCE MAIN PLAN/PROFILE
R-1 - R-6	JEA RECLAIMED WATER PLAN/PROFILE
U-3 - U-9	JEA CONSTRUCTION DETAIL SHEETS
U-10	NASSAU COUNTY STANDARD DETAIL NO. 15

CHESTER ROAD
FROM DAVID HALLMAN PARKWAY TO NORTH OF PAGES DAIRY ROAD

JEA UTILITY PLANS





STA. EQUATION:
STA. 1249+37.34 BK=
STA. 185+10.33 AHD.

TO BRUNSWICK

BEGIN PROJECT
STA. 1233+49.66

TO CALLAHAN
T-3-N
T-2-N

END PROJECT
STA. 197+05.00

TO FERNANDINA BEACH
T-3-N
T-2-N

STA. 1248+21.35
RR XS
CSX NO. 620804A

UTILITY PLANS
ENGINEER OF RECORD:
DANIEL R. WALTERMYER, P.E.
P.E. NO.: 73903
CONNELLY AND WICKER INC.
10060 SKINNER LAKE DR., SUITE 500
JACKSONVILLE, FL 32246

VENDOR NO. 592343737001
CERTIFICATE OF AUTHORIZATION NO. 3650

DANIEL R. WALTERMYER LICENSE No 73903 STATE OF FLORIDA PROFESSIONAL ENGINEER

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED. THE SIGNATURE MUST BE VERIFIED ON THE ELECTRONIC DOCUMENTS.

CONNELLY & WICKER INC.
10060 SKINNER LAKE DR., SUITE 500
JACKSONVILLE, FL 32246
PHONE 904.265.3030 FAX 904.265.3031
CA NO. 3650
DANIEL R. WALTERMYER, PE No 73903

JEA AVAILABILITY NUMBER: 2023-2374

KEY SHEET REVISIONS	
DATE	DESCRIPTION

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
		U-1

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Danny 12/13/2023 8:10:25 PM J:\Transportation\Projects\17-01-0202_ChesterInt\utils\KEYSRD01_JEA.dgn

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SURVEY AND LOCATE DATA:

NOT APPLICABLE	APPLICABLE	
☒	☐	1. ALL ELEVATIONS ARE BASED ON U.S.C.&G.S. DATUM AND SHOWN IN FEET.
☐	☒	2. ELEVATIONS ARE BASED ON N.A.V.D. 1988.
☐	☒	3. LOCATION OF EXISTING UTILITIES OBTAINED BY SOFT DIG LOCATES WHERE SHOWN ON PLANS, OR INCLUDED WITH BID SPECS.
☐	☒	4. EXISTING WATER AND SEWER LINES ARE SHOWN AS PER FIELD LOCATES AND SUBDIVISION AS-BUILT PLANS.
☐	☒	5. UNDERGROUND UTILITIES WERE LOCATED UTILIZING A DIGITAL LOCATOR AND SOFT DIG LOCATES WHERE SHOWN.
☐	☒	6. ALL PIPE LENGTHS SHOWN ON PLAN AND PROFILES ARE FROM CENTER TO CENTER OF MANHOLES, CATCH BASINS, INLETS ETC. OR ALONG THE CENTER LINE OF FORCE MAINS AND WATER MAINS.
☒	☐	7. INVERT ELEVATIONS SHOWN ON DRAWINGS REFER TO THE CENTERLINE OF MANHOLES, UNLESS OTHERWISE INDICATED.
☐	☒	8. THE LOCATION OF ALL EXISTING SEWER AND WATER SERVICE LINES MAY NOT BE INDICATED ON THESE PLANS. THE LOCATION OF NEW SERVICES SHALL BE VERIFIED IN THE FIELD.

PERMIT REQUIREMENTS (NOT ALL INCLUSIVE):

☐	☒	1. CONTRACTOR TO OBTAIN ALL REQUIRED RIGHT-OF-WAY PERMITS.
☐	☒	2. CONTRACTOR SHALL NOT OPEN CUT STREETS IN THE PROJECT AREA UNLESS SPECIFICALLY SHOWN ON PLANS
☐	☒	3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A CONSUMPTIVE USE PERMIT (C.U.P.) THROUGH THE ST. JOHNS WATER MANAGEMENT DISTRICT SHOULD DEWATERING ACTIVITIES BE REQUIRED.
☒	☐	4. THE DEPARTMENT OF TRANSPORTATION, IS TO BE NOTIFIED IN ADVANCE OF CONSTRUCTION PER THEIR PERMIT CONDITIONS.
☐	☒	5. ALL WORK SHALL BE IN ACCORDANCE WITH BID DOCUMENTS, JEA WATER AND SEWER STANDARDS, DETAILS AND MATERIALS MANUAL, REV. 4/01. AND NASSAU COUNTY STANDARD SPECIFICATIONS AND DETAILS AND ALL APPLICABLE STATE AND LOCAL REGULATIONS.
☐	☒	6. IF SOLVENT CONTAMINATION IS FOUND IN THE PIPE TRENCH, WORK SHALL BE STOPPED AND THE PROPER AUTHORITIES NOTIFIED. WITH APPROVAL OF THE PERMITTING AGENCY, DUCTILE IRON PIPE, FITTINGS AND SOLVENT RESISTANT GASKET MATERIAL SHALL BE USED IN THE CONTAMINATED AREA. THE DUCTILE IRON PIPE SHALL EXTEND AT LEAST 100 FEET BEYOND ANY SOLVENT NOTED.
☐	☒	7. THE CONTRACTOR SHALL NOTIFY APPLICABLE UTILITY CONTACT PERSONNEL NOT LESS THAN ONE WEEK PRIOR TO CONSTRUCTION OF FACILITIES IN THEIR RESPECTIVE AREAS.
☐	☒	8. TREE PROTECTION SHALL BE AS DETAILED ON SPECIFIC PLAN SHEETS. NO TRIMMING OF OVERHANGING TREE LIMBS WILL BE ALLOWED. USE SMALLER EQUIPMENT IF NECESSARY.
☐	☒	9. THE CONTRACTOR SHALL LOCATE THE DRAINAGE INLET STRUCTURES IN THE PROJECT AREA AND ERECT SEDIMENTATION CONTROL DEVICES AS NECESSARY PER THE STORMWATER POLLUTION PREVENTION DETAILS.
☐	☒	10. CONTRACTOR TO COORDINATE WORK WITH OTHER UTILITIES DURING CONSTRUCTION.
☐	☒	11. CONTRACTOR SHALL COMPLY WITH THE 2023 JEA WATER AND SEWER STANDARDS MANUAL.

EXISTING UTILITY PROTECTION:

1. IN ORDER TO REDUCE THE DISRUPTION AND COST OF UTILITY DAMAGES OCCURRING IN THE NASSAU COUNTY RIGHT-OF-WAY AND EASEMENTS, THE CONTRACTOR SHALL PREVENT DAMAGES TO EXISTING UTILITIES CAUSED BY HIS WORK THROUGH FIELD VERIFICATION OF THE LOCATION OF THE EXISTING UTILITIES. IN THE CASE OF OPEN EXCAVATION, VERIFICATION MAY BE PERFORMED DURING THE CONTRACTORS WORK. IN THE CASE OF DIRECTIONAL DRILLING, VERIFICATION SHALL TAKE PLACE PRIOR TO MOBILIZATION OF THE DRILLING EQUIPMENT.
2. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES AS NEEDED TO AVOID CONTACT. EXISTING UTILITIES SHALL BE EXPOSED USING DETECTION EQUIPMENT OR OTHER ACCEPTABLE MEANS. SUCH METHODS MAY INCLUDE BUT SHALL NOT BE LIMITED TO "SOFT DIG" EQUIPMENT AND GROUND PENETRATING RADAR (GPR). THE EXCAVATOR SHALL BE HELD LIABLE FOR DAMAGES CAUSED TO THE COUNTY'S/JEA'S INFRASTRUCTURE AND THE EXISTING FACILITIES OF OTHER UTILITY COMPANIES.
3. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND AVOID ALL UTILITIES, OTHER STRUCTURES AND OBSTRUCTIONS BOTH ABOVE AND BELOW GROUND SURFACE. ALL DAMAGE RESULTING FROM THE CONTRACTOR'S FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

ABBREVIATIONS:

℄	BASE LINE
BE (B)	BURIED ELECTRIC
BFOC(B)	BURIED FIBER OPTIC CABLE
BT(B)	BURIED TELEPHONE LINE
CONC.	CONCRETE
CONST.	CONSTRUCT
DI	DUCTILE IRON
EL.	ELEVATION
EXIST.	EXISTING
HORIZ.	HORIZONTAL
LF	LINEAR FEET
LT	LEFT
MECH.	MECHANICAL
MES	MITIGATED END SECTION
MIN.	MINIMUM
MJ	MECHANICAL JOINT
OE	OVERHEAD ELECTRIC
PROP.	PROPOSED
RT	RIGHT
R/W	RIGHT OF WAY
SD	SIDE DRAIN
STA	STATION
TYP.	TYPICAL
VERT.	VERTICAL
W(B)	BURIED WATER LINE
WM	WATER MAIN

RESTORATION NOTES:

1. THE CONTRACTOR SHALL EMPLOY A LAND SURVEYOR, REGISTERED IN THE STATE OF FLORIDA, TO REFERENCE AND RESTORE PROPERTY CORNERS AND LANDMARKS WHICH MAY BE DISTURBED BY CONSTRUCTION.
2. THE CONTRACTOR SHALL RESTORE/REPLACE ALL CULVERTS, HEADWALLS AND STORM DRAIN INLETS REMOVED OR DISTURBED BY THE CONSTRUCTION OPERATION.
3. TRAFFIC SIGNS AND PAVEMENT MARKINGS SHALL BE RESTORED TO THEIR PRE-CONSTRUCTION CONDITION IN ACCORDANCE WITH NASSAU COUNTY/FDOT STANDARD SPECIFICATIONS.
4. SIDEWALKS, DRIVEWAYS AND CURBING DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED IN ACCORDANCE WITH NASSAU COUNTY STANDARD SPECIFICATIONS. SIDEWALKS REMOVED AND REPLACED IN CURB AND GUTTER AREAS AT INTERSECTIONS SHALL HAVE HANDICAP RAMPS INSTALLED. DRIVEWAYS AND SIDEWALKS SHALL BE SAWCUT ALONG THE RIGHT-OF-WAY LINE OR NEAREST JOINT AND REMOVED AND REPLACED TO THE EDGE OF STREET.
5. SOD AREAS DISTURBED OR DAMAGED BY THE CONSTRUCTION OPERATION.
6. ALL PAVEMENT REPAIR SHALL BE IN ACCORDANCE WITH THE NASSAU COUNTY/FDOT STANDARD DETAILS AND SPECIFICATIONS LATEST EDITION.
7. CONTRACTOR MUST MAINTAIN AND PRESERVE NEWLY GRADED AREAS AND REPAIR AREAS WHERE SETTLING AND EROSION HAVE OCCURRED.
8. ALL ROADS AND DRIVEWAYS MUST BE PASSABLE AT THE END OF EACH WORK DAY.
9. ANY MAIL BOX DAMAGE DURING CONSTRUCTION SHALL BE IMMEDIATELY RESTORED TO EXISTING OR BETTER CONDITION.

UTILITY CONTACTS:

A. COMCAST CABEL COMMUNICATIONS ~ JAMES GRAHM ——— 904-380-6341
B. ATT / DISTRIBUTION ~ P.K. PATEL ——— 904-699-4976
C. FLORIDA POWER AND LIGHT ~ ROBERT HADDOCK ——— 904-225-3003
D. JEA WATER COLLECTION & DISTRIBUTION ~ NATE GROVER ——— 904-665-7526
E. JEA SANITARY SEWER ~ NATE ROUSE ——— 904-665-7526

GENERAL LEGEND

RIGHT OF WAY LINE
LIMITS OF CONSTRUCTION
FENCE (HEIGHT & MAT'L. INDICATED)
FIRE HYDRANT
VALVE (TYPE INDICATED)
END CAP
REDUCER
STORM DRAIN
MAIL BOX

UTILITY SYMBOLS

ELECTRIC POLE OR S.B.T. POLE (WOOD)
WOOD POWER POLE
CONCRETE POWER POLE
GUY WIRE
OVERHEAD ELECTRIC — OE
UNDERGROUND CABLE TELEVISION — BT(B)
FIBER OPTIC LINE — BFOC(B)

NOT APPLICABLE	APPLICABLE	
☒	☐	1. CONTRACTOR TO REHABILITATE ALL MANHOLES ON PIPE BURST SEWERS VIA COATING/LINING PER JEA SPECIFICATION 446-2, UNLESS OTHERWISE NOTED ON THE PLANS.
☒	☐	2. CONTRACTOR TO RENEW, REHABILITATE, REPLACE OR REINSTALL AS APPLICABLE ALL SERVICE LATERALS TO R.O.W. LINE.
☒	☐	3. CONTRACTOR TO INSTALL SEWER SERVICE PIPING A MINIMUM OF 60 INCHES BELOW GRADE, WHERE NEW SANITARY SEWER MAIN IS LESS THAN 5 FEET DEEP, THE SEWER SERVICE PIPE SHALL BE INSTALLED AS DEEP AS POSSIBLE.
☒	☐	4. WHEN THE DISTANCE BETWEEN A POWER POLE AND THE TRENCH IS LESS THAN THE TRENCH DEPTH, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH JEA ELECTRICAL PERSONNEL TO SECURE POWER POLES. THE CONTACTS FOR JEA ARE AS FOLLOWS: NORTHSIDE~EAST of US-1 MIKE CORBITT @ 665-7991 (mobile 662-0635) NORTHSIDE~WEST of US-1 ANDY YEAGER @ 665-7998 (mobile 662-0622) NORTHSIDE~BACKUP ALAN AINSLEY @ 665-7303 (mobile 662-6557) SOUTHSIDE~SOUTH of BEACH BLVD, TOM KERNS @ 665-6847 (mobile 860-1687) SOUTHSIDE~NORTH of BEACH BLVD, DERYL BASFORD @ 665-6855 (mobile 662-0616) SOUTHSIDE~BACKUP EDDIE GALES @ 665-6855 (mobile 662-0616) A MINIMUM OF TWO (2) WORKING DAYS NOTICE IS REQUIRED FOR AN OUTSIDE MEETING WITH JEA ELECTRICAL TO DISCUSS THE REQUIRED WORK. ADDITIONAL TIME WILL BE REQUIRED BY JEA ELECTRICAL FOR ANY REQUIRED WORK TO BE ACCOMPLISHED.
☒	☐	5. ALL NEW STORM DRAIN PIPE JOINTS SHALL BE WRAPPED WITH FILTER FABRIC.
☐	☒	6. THE DESIGN FOR THE PROJECT IS BASED UPON THE "OPEN-CUT" METHOD OF CONSTRUCTION. IF USING ALTERNATIVE MEANS OR METHODS, THE CONTRACTOR SHALL FOLLOW ALL APPLICABLE STANDARDS FOR THAT MEANS OR METHOD AND OBTAIN PRIOR APPROVAL FOR ITS USE FROM JEA.
☐	☒	7. THE CONTRACTOR SHALL MINIMIZE SERVICE INTERRUPTIONS AT SERVICE CONNECTIONS. THE MEANS AND METHODS SHALL BE LEFT TO THE DISCRETION OF THE CONTRACTOR, SUBJECT TO THE REQUIREMENTS OF THE CONTRACT SPECIFICATIONS. NO EXISTING ACTIVE SERVICE SHALL BE LEFT INTERRUPTED AT THE END OF THE WORK DAY.
☐	☒	8. CONTRACTOR SHALL PROVIDE ADDITIONAL CORPORATION STOPS FOR FILLING AND DRAINING PURPOSES DURING CONSTRUCTION AS NEEDED. CORPORATION STOPS ARE TO BE PLUGGED AND LEFT IN PLACE. INDICATE CORPORATION STOP LOCATIONS ON RECORD DRAWINGS (AS-BUILTS).
☒	☐	9. WATER AND SEWER SERVICES SHALL BE TRANSFERRED TO THE NEW MAIN UPON COMPLETION AND F,D,E,P,J,E,A, CERTIFICATION, AND PRIOR TO THE EXISTING MAINS BEING ABANDONED.
☒	☐	10. IF EXISTING VALVES ARE IN UNPAVED AREAS AND ARE TO BE TAKEN OUT OF SERVICE, THEY SHALL BE CLOSED AND THE VALVE BOX AND COVER SHALL BE REMOVED. IF THE VALVES ARE UNDER PAVED AREAS, THEY SHALL BE CLOSED, THE VALVE BOX GROUT FILLED AND THE COVER REMOVED.
☒	☐	11. CONTRACTOR SHALL REPLACE EXISTING WATER METER BOXES WHEN DEEMED NECESSARY BY THE JEA INSPECTOR.
☐	☒	12. CONTRACTOR TO PROVIDE ADDITIONAL DEPTH OF BURY VIA PIPE JOINT DEFLECTION TO ACCOMMODATE VALVE AND ARV SELECTION PER JEA STANDARDS.
☒	☐	13. WATER METERS MAY REQUIRE RELOCATION FOR CONSTRUCTION. CONTRACTOR SHALL CONTACT JEA METER DEPARTMENT AND RELOCATE WATER METERS AS NECESSARY.
☐	☒	14. PRIOR TO COMMENCING ANY EXCAVATION OR GRADING, THE CONTRACTOR SHALL OBTAIN ALL GEOTECHNICAL AND TOPOGRAPHIC SURVEY DATA AND LOCATIONS OF ABOVE GROUND AND UNDERGROUND UTILITIES, SHOULD THE CONTRACTOR DISCOVER ANY INACCURACIES, ERRORS OR OMISSIONS IN THE SURVEY DATA, HE SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER IN ORDER THAT PROPER ADJUSTMENTS CAN BE ANTICIPATED AND ORDERED.
☒	☐	15. SHEET PILING WILL BE REQUIRED ON ALL EXCAVATIONS DEEPER THAN 16 FEET.
☐	☒	16. THE MAXIMUM JOINT DEFLECTION SHALL BE LIMITED TO 80% OF THE PIPE MANUFACTURER'S RECOMMENDATION ON ALL 20" AND LARGER DUCTILE IRON PRESSURE PIPE. THE CONTRACTOR SHALL PROPERLY INSPECT THE INSTALLATION OF ALL PIPE JOINTS TO ENSURE THESE JOINT DEFLECTION LIMITS ARE NOT EXCEEDED.
☐	☒	17. DRAWINGS DEPICT CASE B (JEA PLATE W-40) PIPE DEFLECTION TO AVOID UTILITY CONFLICTS IN SOME LOCATIONS.CONTRACTOR IS RESPONSIBLE FOR PROVIDING PROPER DEFLECTION IN ACCORDANCE WITH JEA STANDARDS. JEA WILL NOT PROVIDE ADDITIONAL COMPENSATION FOR FITTINGS IN THESE LOCATIONS.
☐	☒	18. CONTRACTOR SHALL REFER TO FDEP AND USACE ENVIRONMENTAL RESOURCE PERMIT(S) FOR REQUIREMENTS FOR CONSTRUCTION WITHIN JURISDICTIONAL WETLAND AREAS.
☐	☒	19. A FULL UNCIT LENGTH OF WATER MAIN PIPE (USUALLY 20 FEET) SHALL BE CENTERED AT THE POINT OF CROSSING OF ALL WATER AND SEWER (INCLUDING STORM) LINES AT THE POINT OF CROSSINGS REGARDLESS OF VERTICAL SEPERATIONS.
☐	☒	20. ALL WATER MAINS SHALL BE BACTERIOLOGICAL AND PRESSURE TESTED AT 150 PSI FOR 2 HOURS IN ACCORDANCE WITH ASSA C-600 STANDARDS, NO CONNECTION TO EXISTING POTABLE WATER SYSTEM SHALL BE ALLOWED UNTIL ALL PROPOSED WATER LINES HAVE BEEN PRESSURE TESTED, DISINFECTED, AND CLEARED FOR SERVICE. THE ENGINEER MUST BE NOTIFIED 48 HOURS PRIOR TO PREFORMING THE PRESSURE TEST AND MUST BE PRESENT.
☐	☒	21. THE CONTRACTOR SHALL AVOID SERVICE INTERRUPTIONS AND MAINTAIN ANY EXISTING WATER AND SEWER TO MEET THE SYSTEM DEMANDS AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF AFFECTED CUSTOMERS OF THE UTILITY A MINIMIM OF 48 HOURS IN ADVANCE OF ANY INTERUPTION OF SERVICE.
☐	☒	22. ALL PIPES CONFORM TO THE APPROPRIATE AWWA STANDARDS AND SPECIFICATIONS.
☐	☒	23. ALL PIPING AND ASSOCIATED APPURTENANCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST JEA STANDARDS, DETAILS & MATERIALS MANUAL, CURRENT REVISION.
☐	☒	24. THE TAPS ARE TO BE SCHEDULED 48 HOURS ON ADVANCE BY CONTACTING YOUR JEA INSPECTOR.
☐	☒	25. MECHANICAL RESTRAINING JOINTS ARE REQUIRED IN ACCORDANCE WITH JEA STANDARDS WHERE WATER MAINS ARE TERMINATED AND AT ALL BENDS, REDUCERS, VALVES AND TEES. REFFER TO JEA DETAIL PLATE W-31B

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

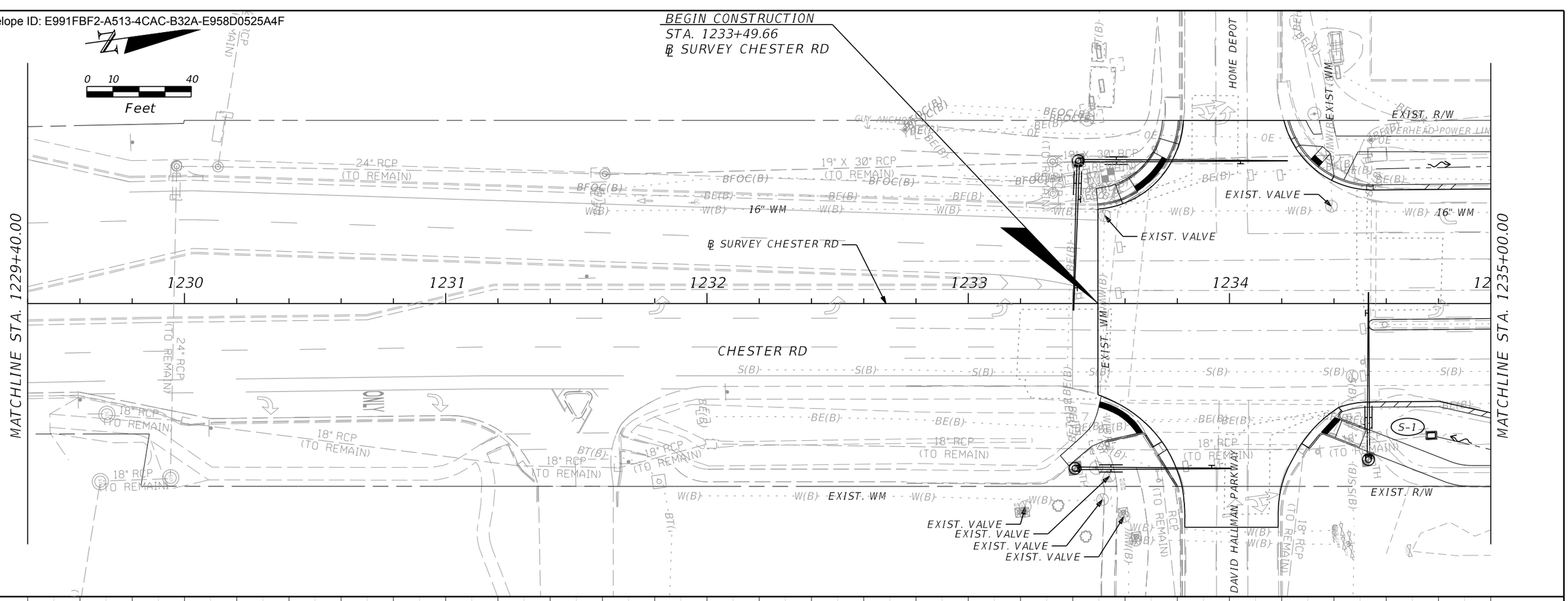
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

GENERAL NOTES

SHEET NO. U-2

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



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Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Phone 904.265.3030 Fax 904.265.3031
CA No. 3650 LA No. LC26000311
Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

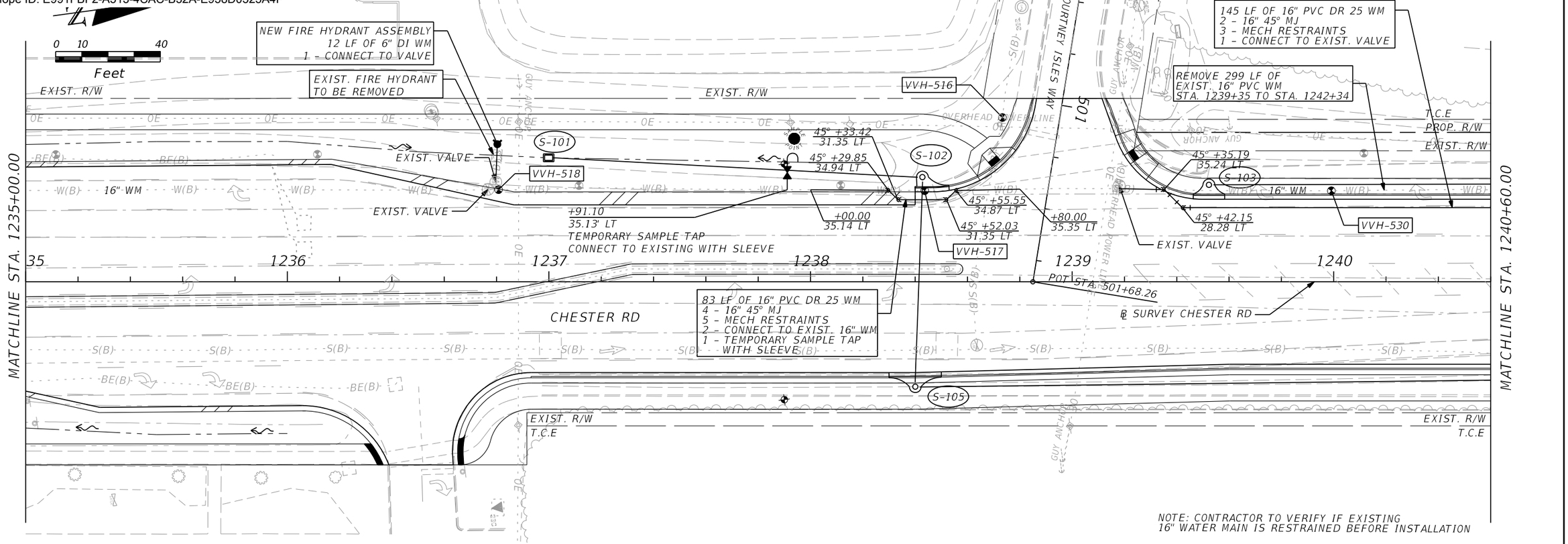
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

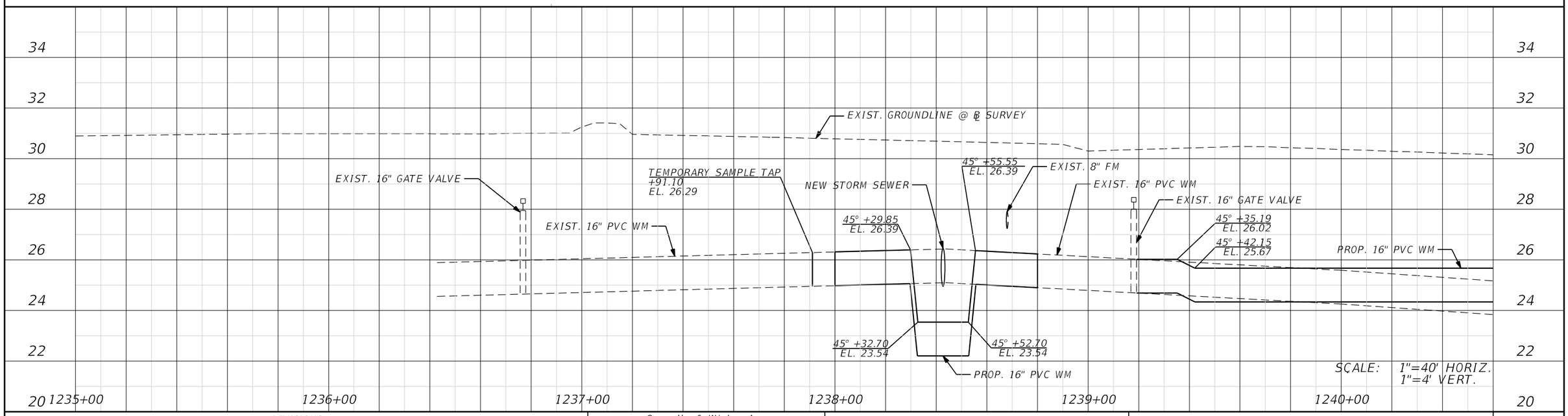
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

WATER MAIN PLAN & PROFILE

SHEET NO. W-1

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F





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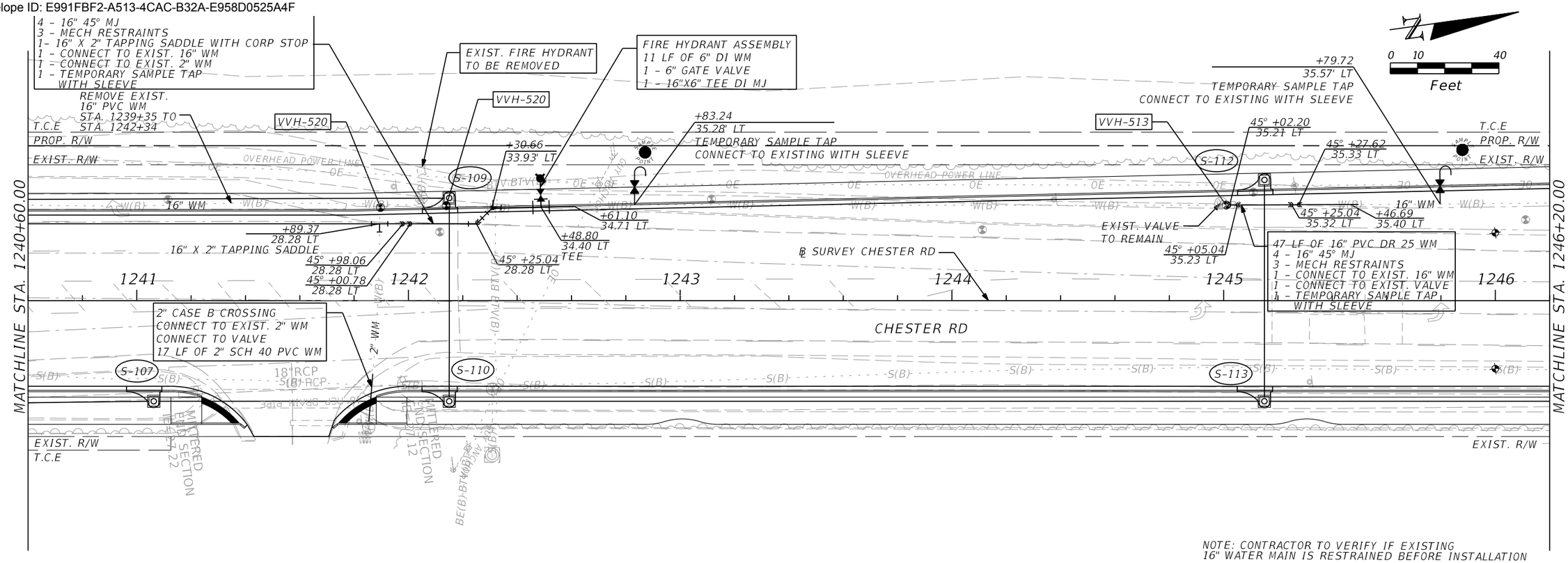
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

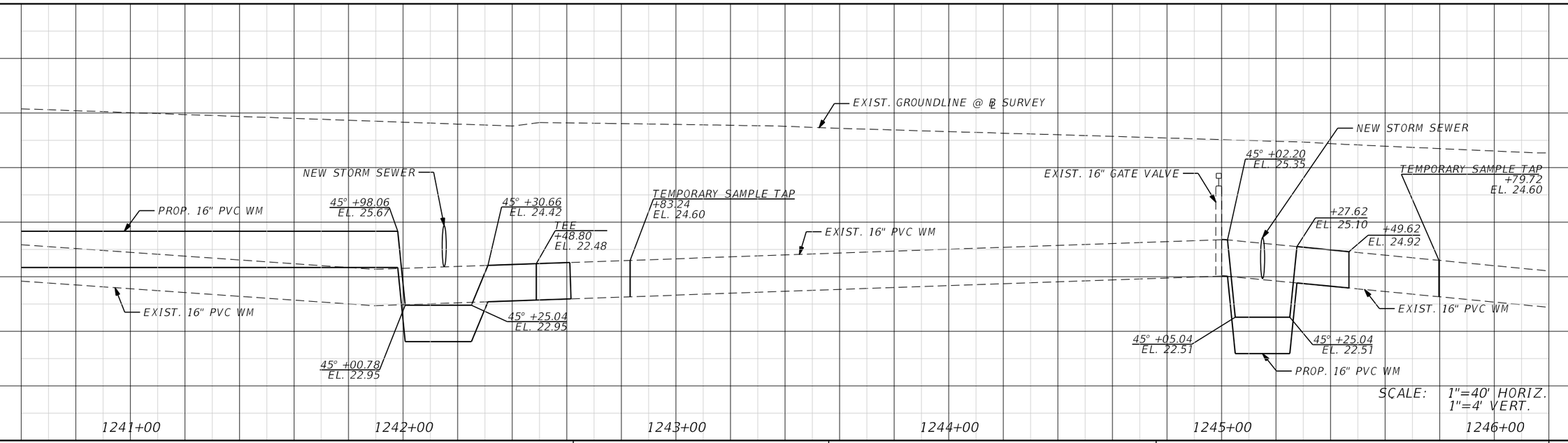
WATER MAIN PLAN & PROFILE

SHEET NO. W-2

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



NOTE: CONTRACTOR TO VERIFY IF EXISTING 16" WATER MAIN IS RESTRAINED BEFORE INSTALLATION



SCALE: 1"=40' HORIZ.
1"=4' VERT.

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10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Phone 904.265.3030 Fax 904.265.3031
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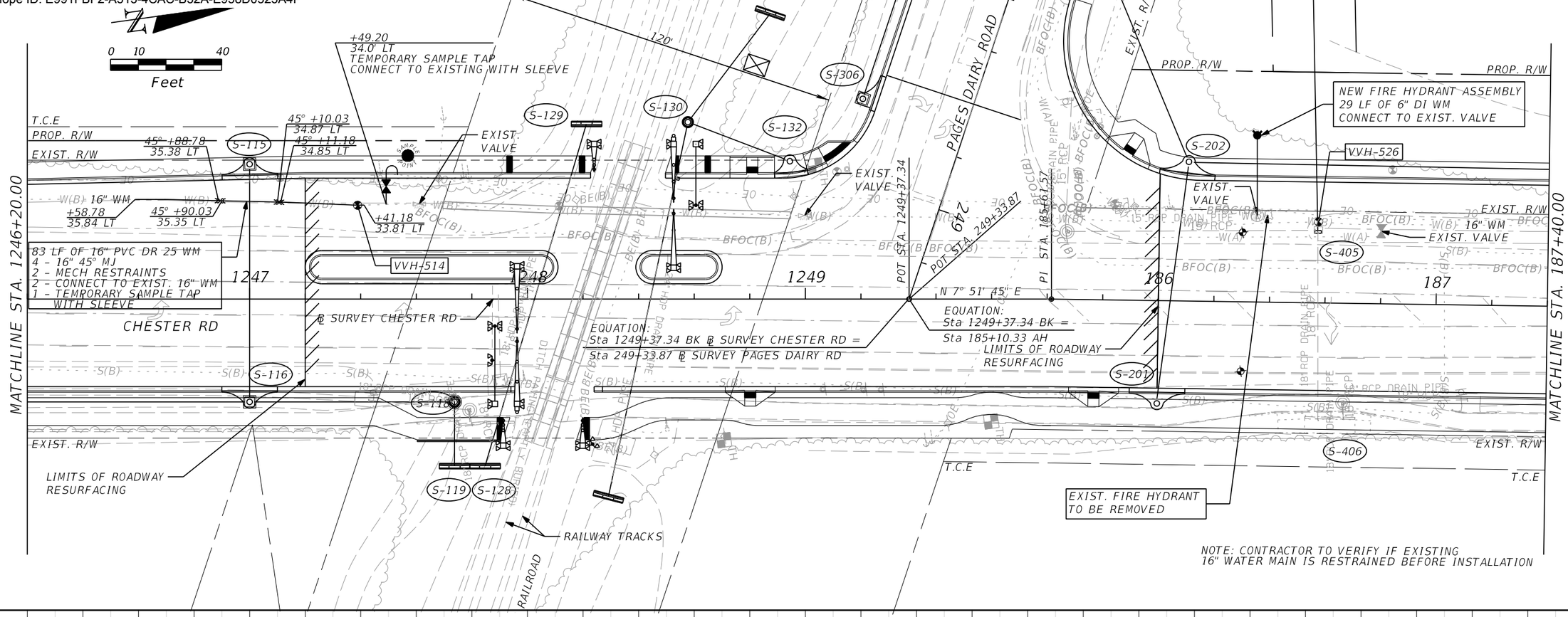
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

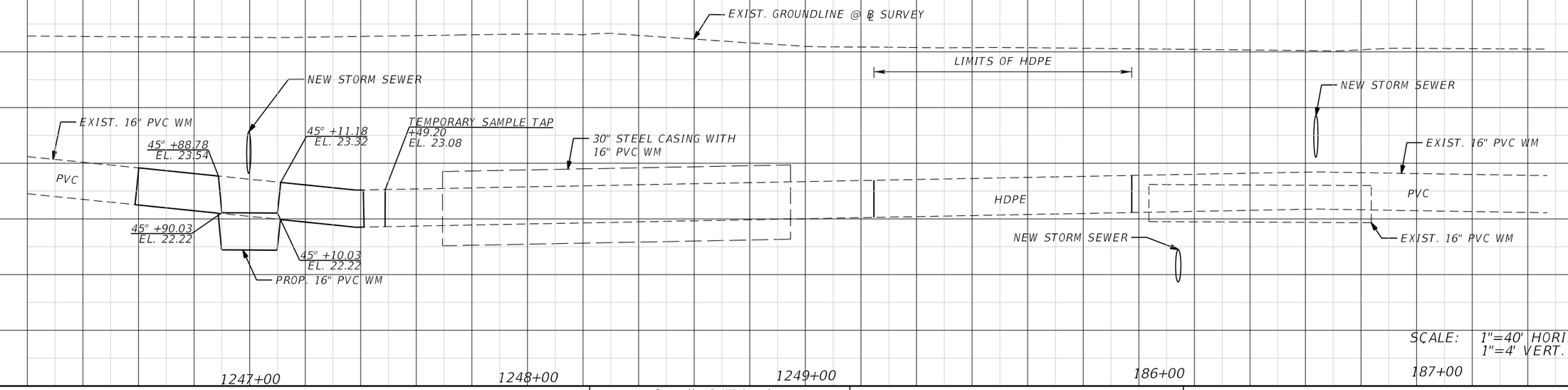
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

WATER MAIN PLAN & PROFILE

SHEET NO. W-3

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F





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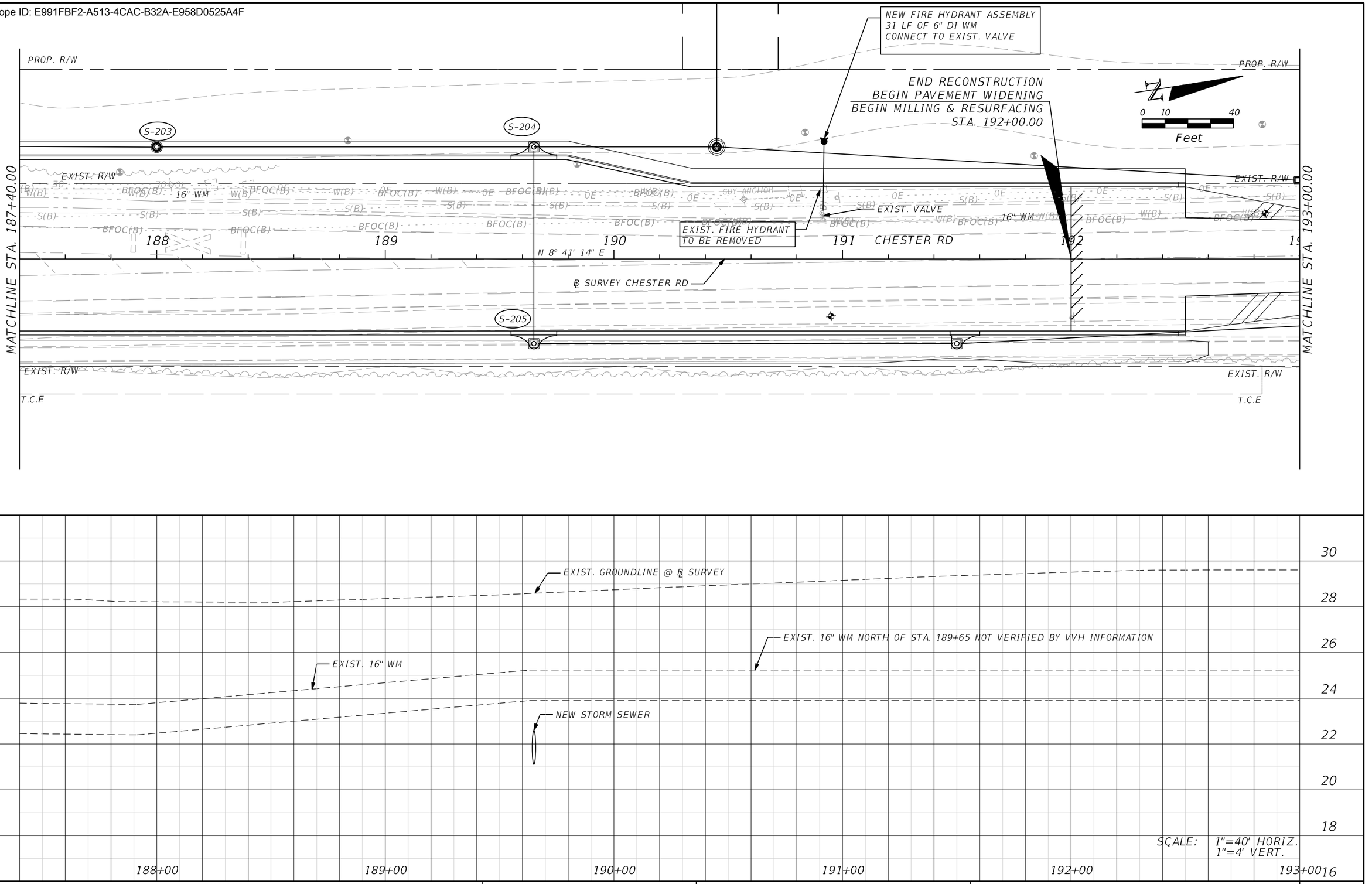
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

WATER MAIN PLAN & PROFILE

SHEET NO. W-4

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



SCALE: 1"=40' HORIZ.
1"=4' VERT.

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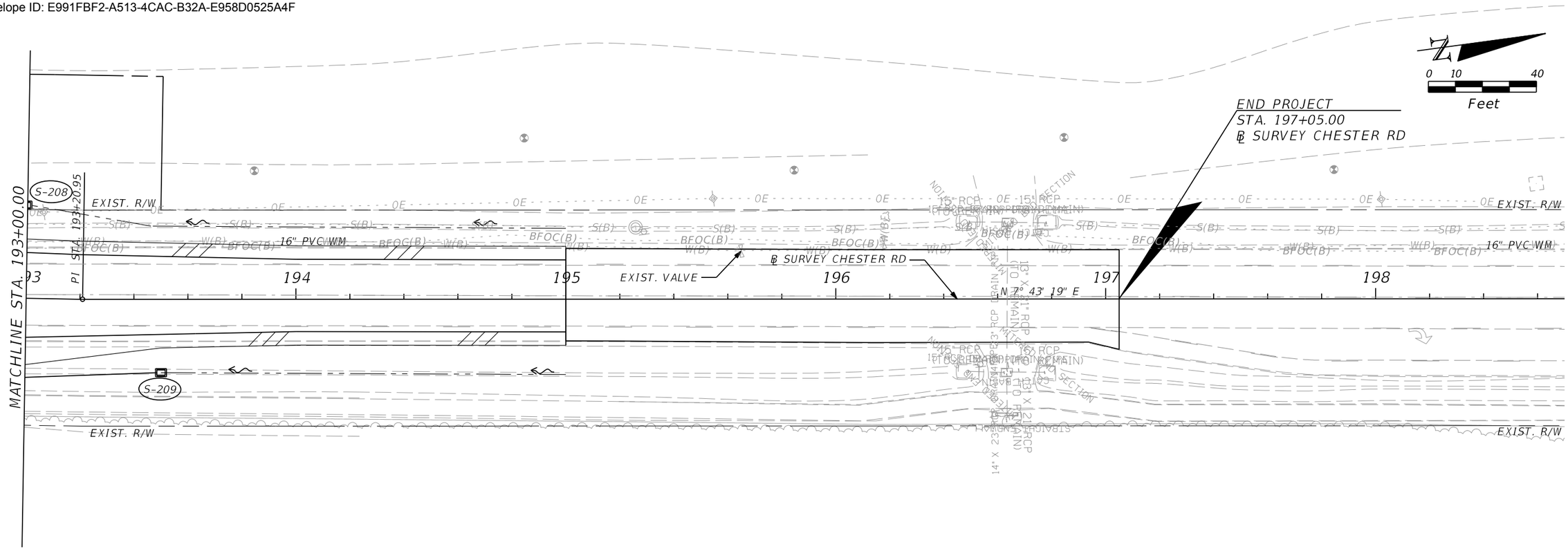
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

WATER MAIN PLAN & PROFILE

SHEET NO. W-5

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



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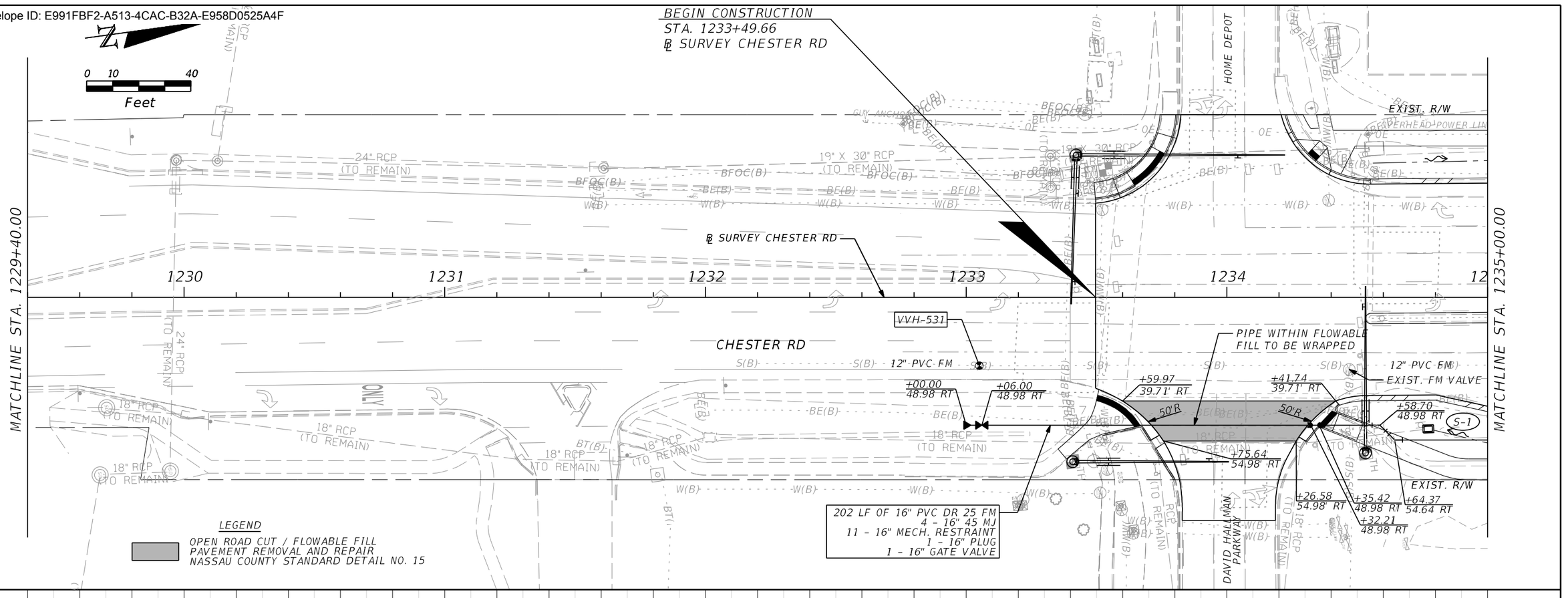
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

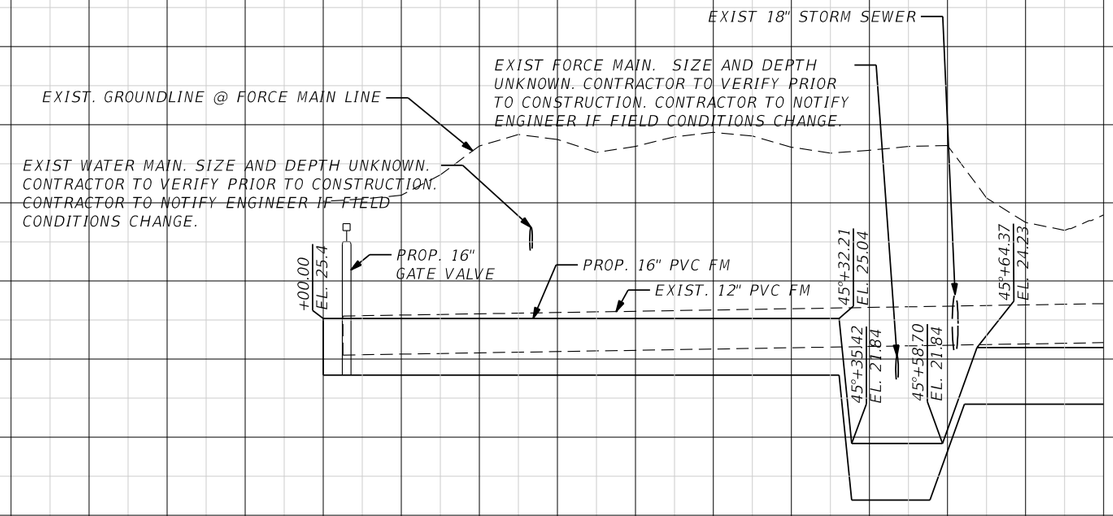
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

WATER MAIN PLAN & PROFILE

SHEET NO. W-6

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F





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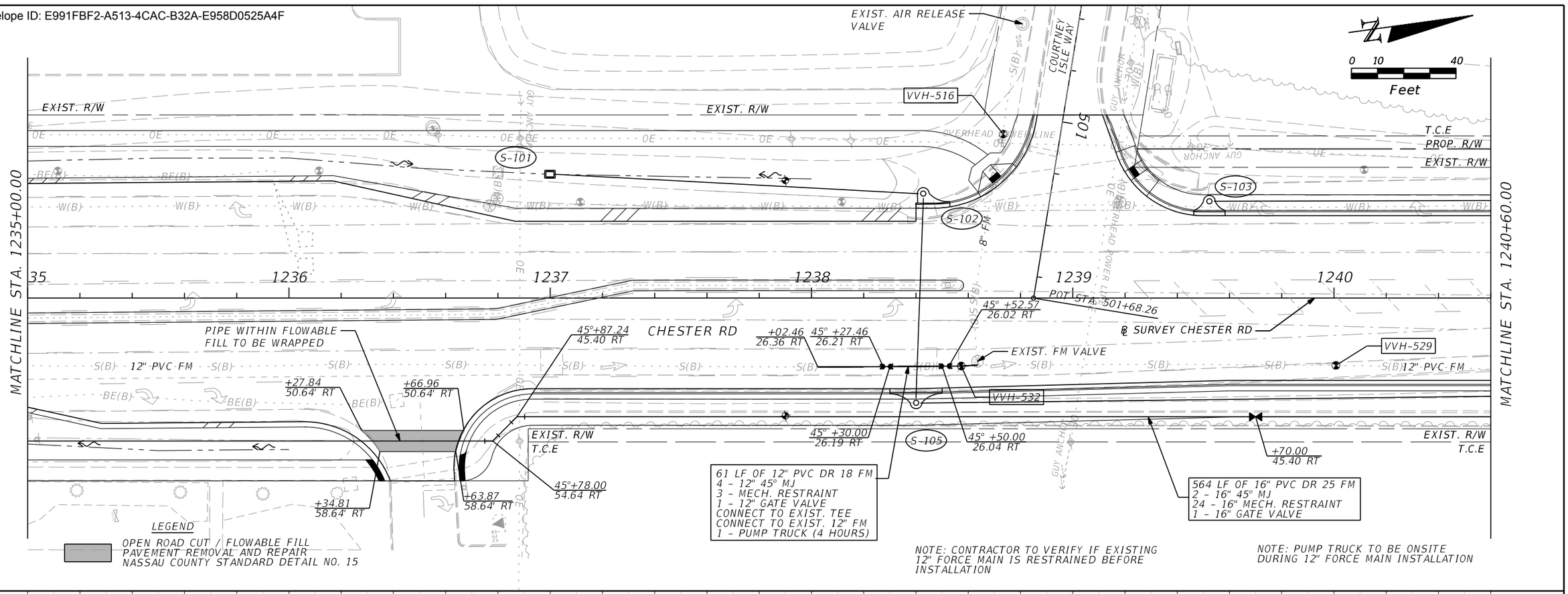
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

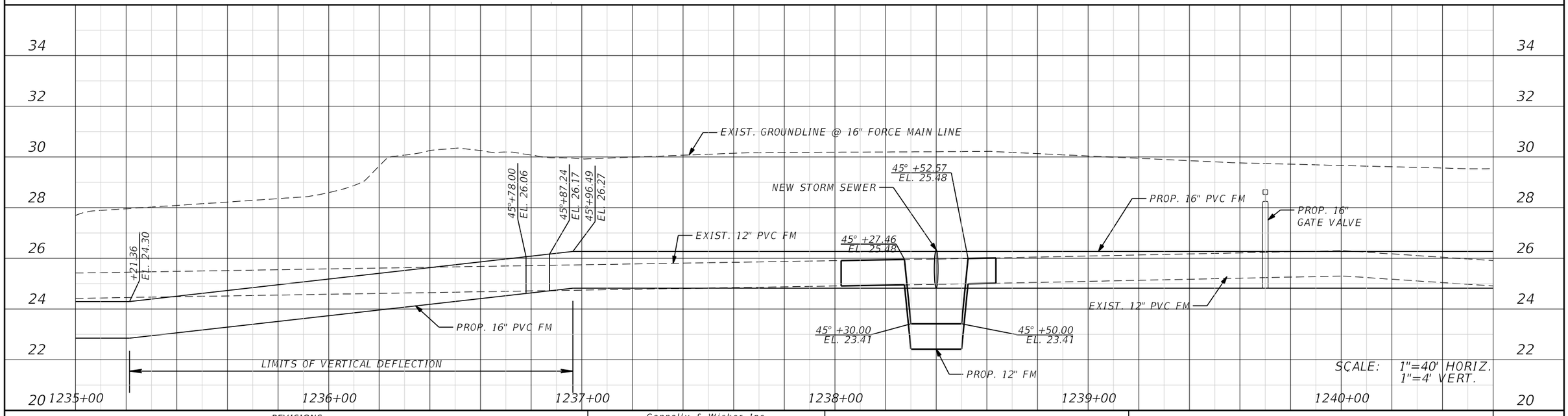
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

FORCE MAIN PLAN & PROFILE

SHEET NO. S-1

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F





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Phone 904.265.3030 Fax 904.265.3031
CA No. 3650 LA No. LC26000311
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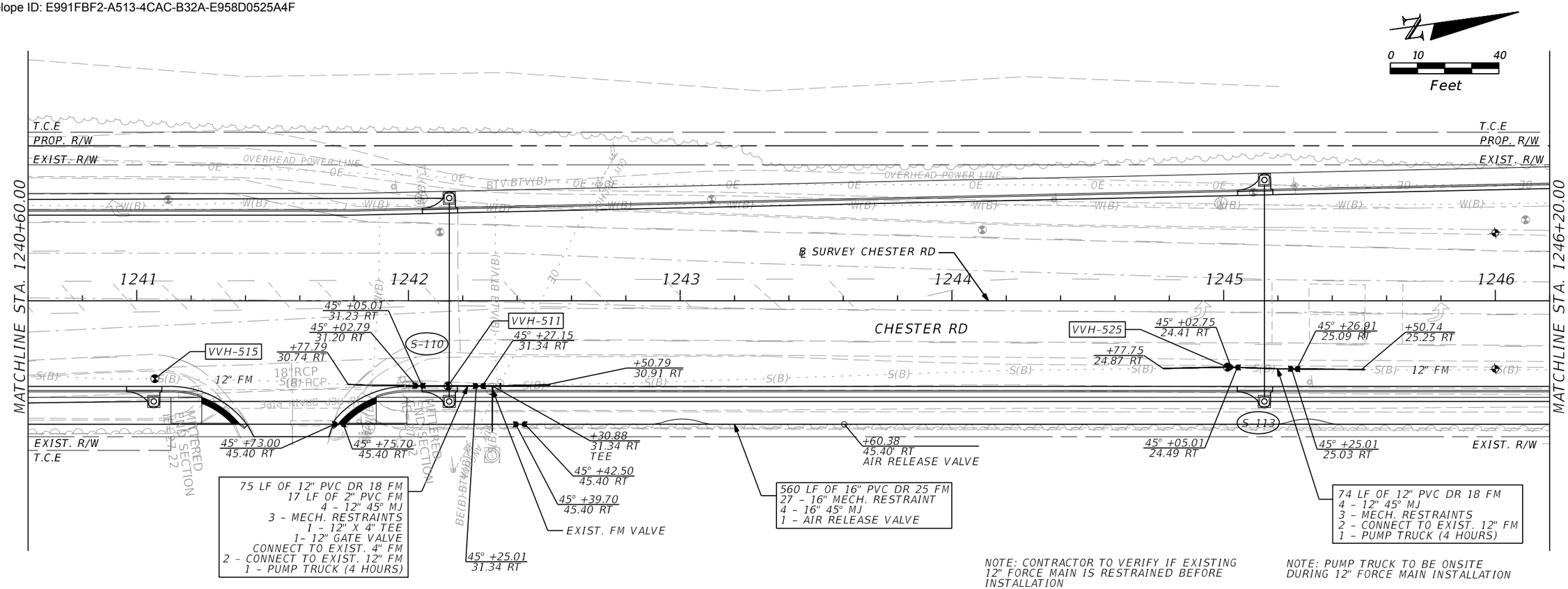
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

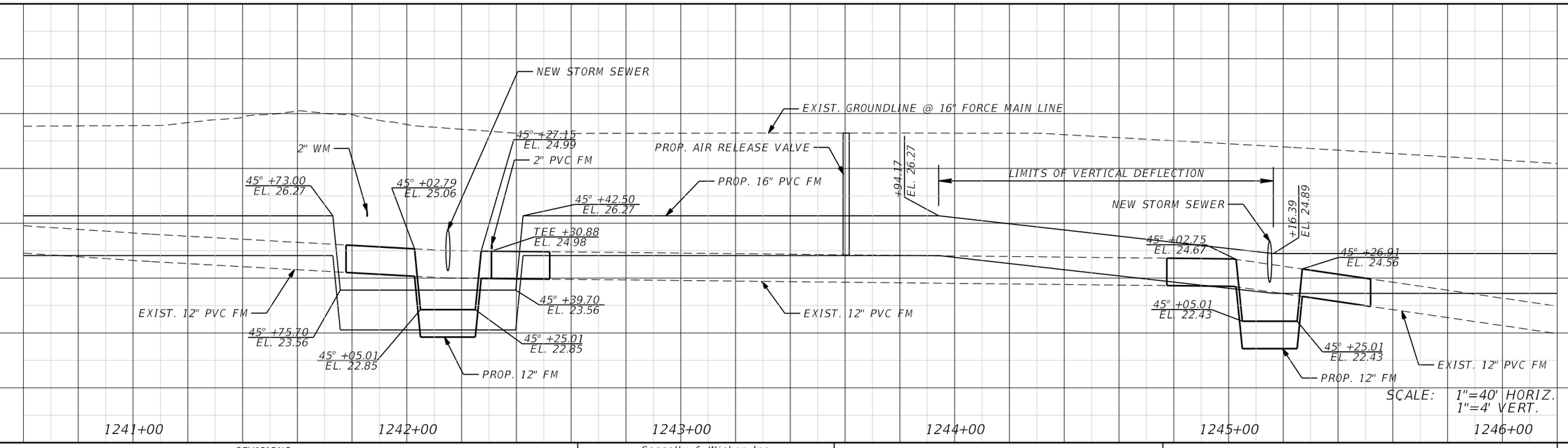
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

FORCE MAIN PLAN & PROFILE

SHEET NO. S-2

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F





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Jacksonville, FL 32246
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CA No. 3650 LA No. LC26000311
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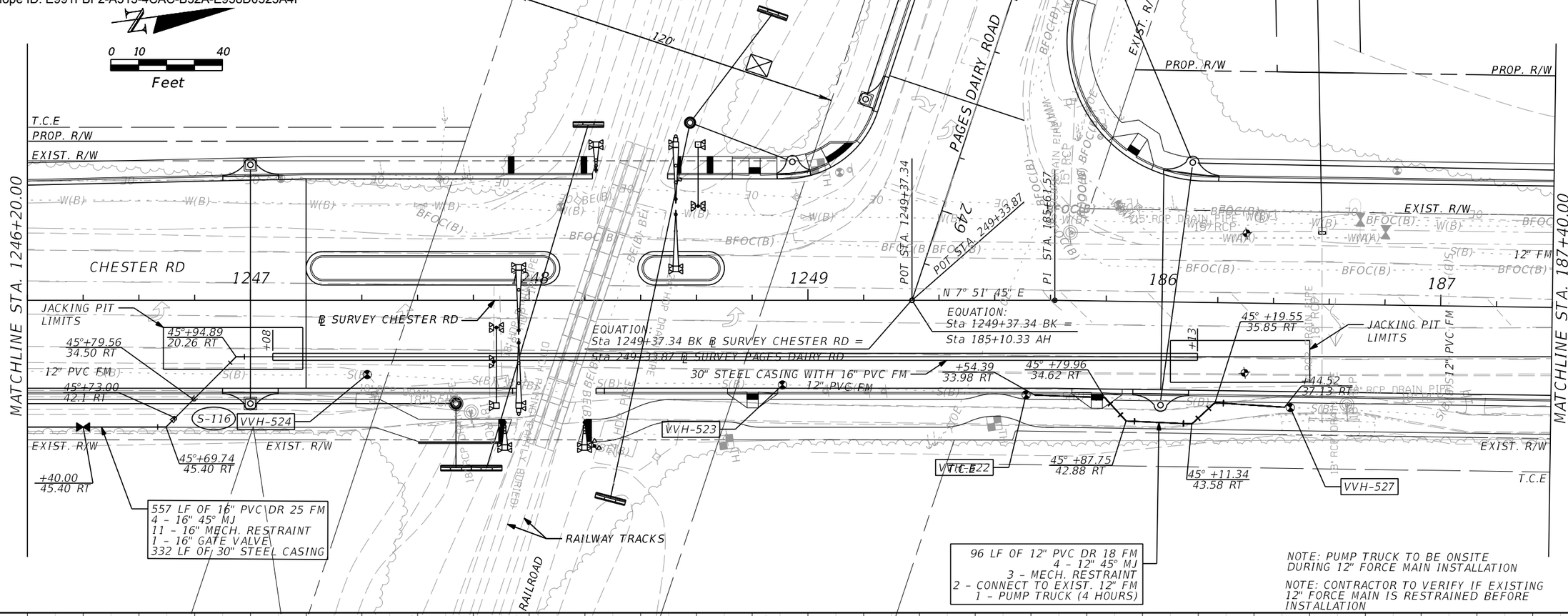
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

FORCE MAIN PLAN & PROFILE

SHEET NO. S-3

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



REVISIONS			
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Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
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CA No. 3650 LA No. LC26000311
Engineer of Record:
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FL P.E. No. 73903

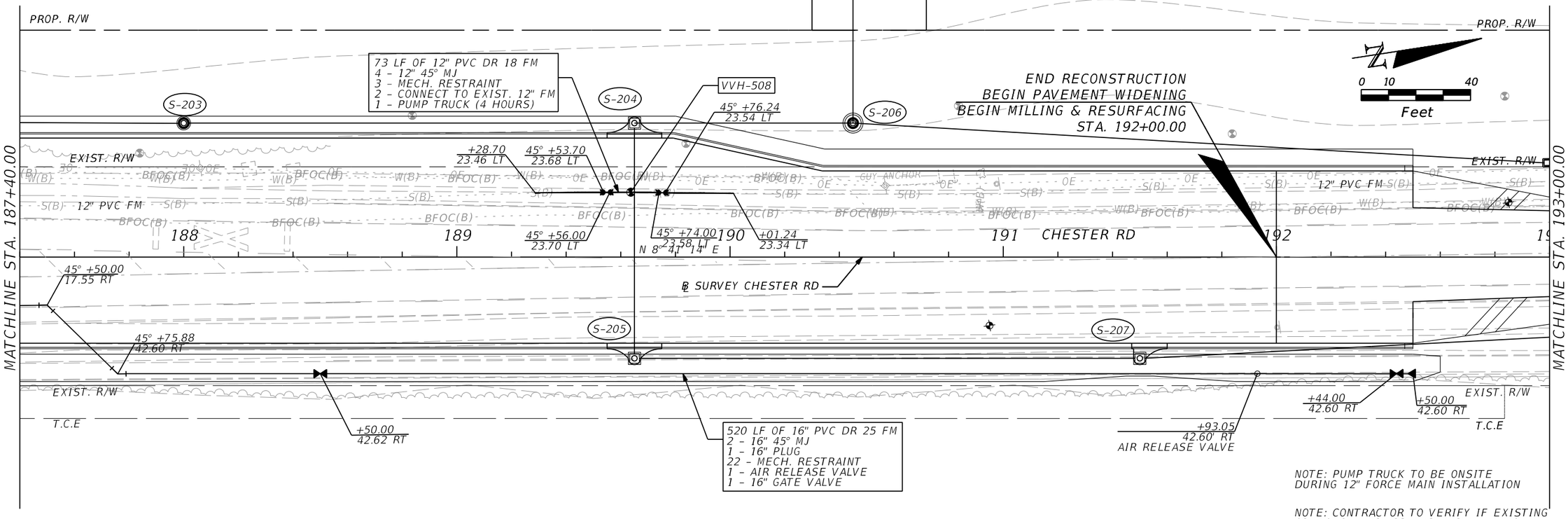
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

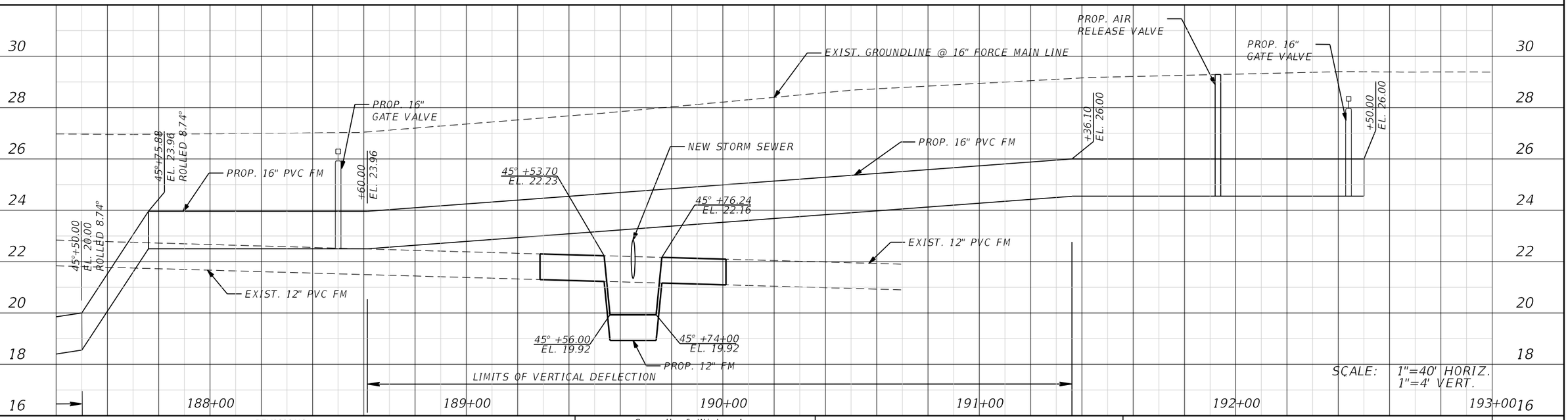
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

FORCE MAIN PLAN & PROFILE

SHEET NO. S-4

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F





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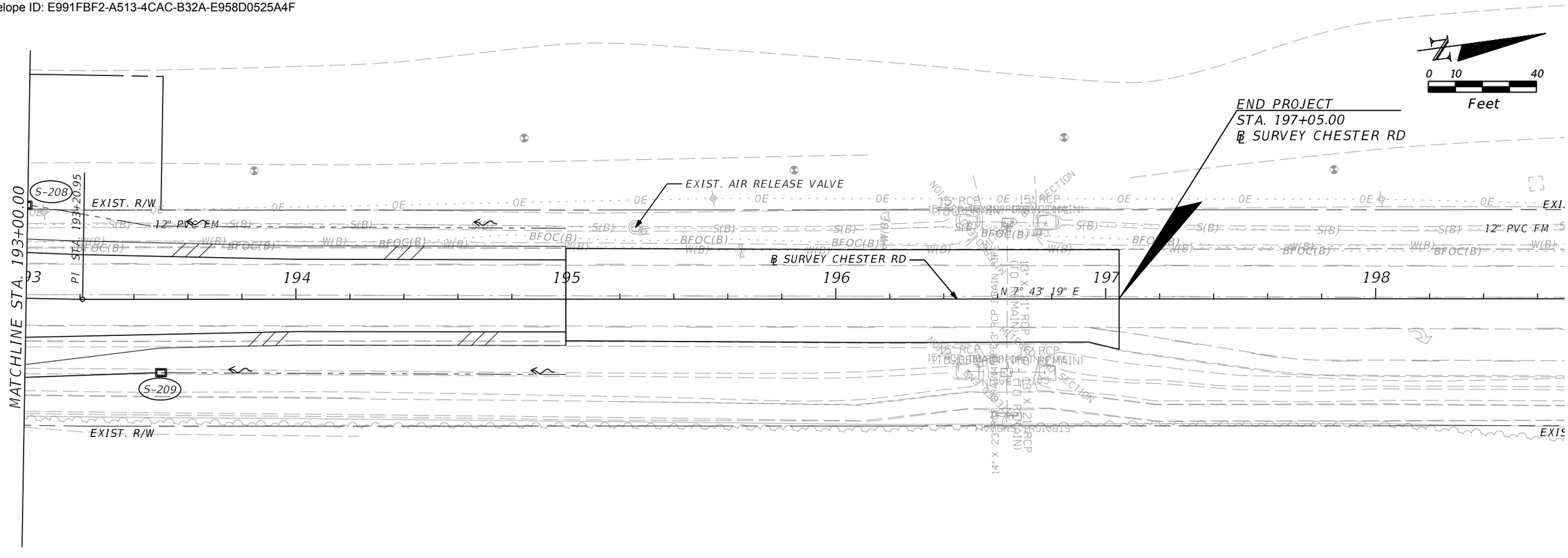
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

FORCE MAIN PLAN & PROFILE

SHEET NO. S-5

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



NO PROPOSED FM LINES
ON THIS SHEET

SCALE: 1"=40' HORIZ.
1"=4' VERT.

194+00 195+00 196+00 197+00 198+00

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

FORCE MAIN PLAN & PROFILE

SHEET NO. S-6

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

0 10 40
Feet

211 LF OF 16" PVC DR 25 RECLAIMED WM
8 - 16" 45 MJ
6 - 16" MECH. RESTRAINT
1 - 16" GATE VALVE
1 - FLUSHING VALVE BELOW GRADE
1 - 2" TAPPED PLUG

MATCHLINE STA. 1229+40.00

MATCHLINE STA. 1235+00.00

1230 1231 1232 1233 1234

℄ SURVEY CHESTER RD

CHESTER RD

ONLY

24" RCP (TO REMAIN)

19" X 30" RCP (TO REMAIN)

18" RCP (TO REMAIN)

FLUSHING VALVE & 2" TAPPED PLUG

45° +17.74 59.44 LT

+09.40 59.44 LT

1232+95.05 59.44 LT

45° +22.30 64.00 LT

45° +72.73 64.00 LT

+79.58 58.00' LT

45° +75.26 64.00 LT

+82.36 70.00' LT

+20.79 70.00' LT

+26.34 58.00' LT

45° +23.25 64.00 LT

45° +25.88 64.00 LT

45° +45.69 64.00 LT

45° +54.90 54.78 LT

35'R

PIPE WITHIN FLOWABLE FILL TO BE WRAPPED

EXIST. R/W

OVERHEAD POWER LINE

HOME DEPOT

DAVID HALLMAN PARKWAY

5-1

LEGEND

OPEN ROAD CUT / FLOWABLE FILL
PAVEMENT REMOVAL AND REPAIR
NASSAU COUNTY STANDARD DETAIL NO. 15

BEGIN CONSTRUCTION
STA. 1233+49.66
℄ SURVEY CHESTER RD

PROP. 16" GATE VALVE

PROP. 16" PVC RECLAIMED WM

45° +17.74 EL. 29.08

45° +22.30 EL. 29.08

45° +72.73 EL. 29.08

EXIST WATER MAIN (SIZE AND DEPTH UNKNOWN)

45° +75.26 EL. 26.64

45° +23.25 EL. 26.64

45° +58.49 EL. 23.98

45° +58.49 EL. 24.03

45° +25.88 EL. 23.98

LIMITS OF VERTICAL DEFLECTION

SCALE: 1"=40' HORIZ.
1"=4' VERT.

34 32 30 28 26 24 22 20

1230+00 1231+00 1232+00 1233+00 1234+00 1235+00

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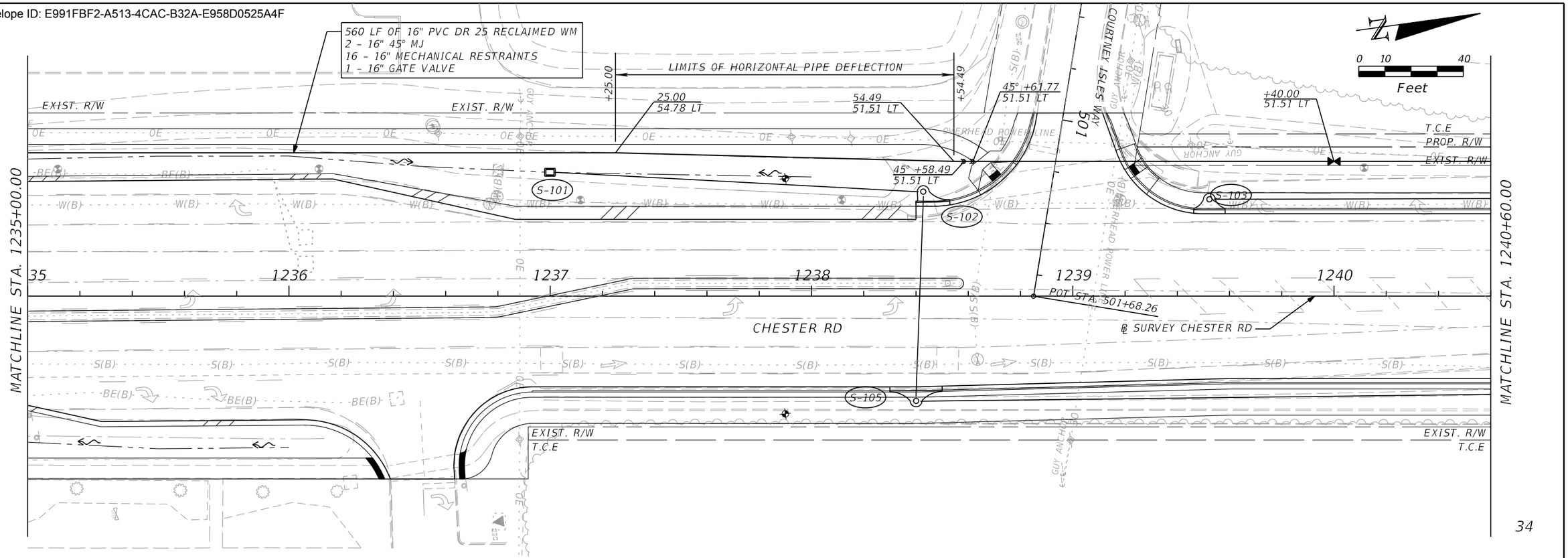
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

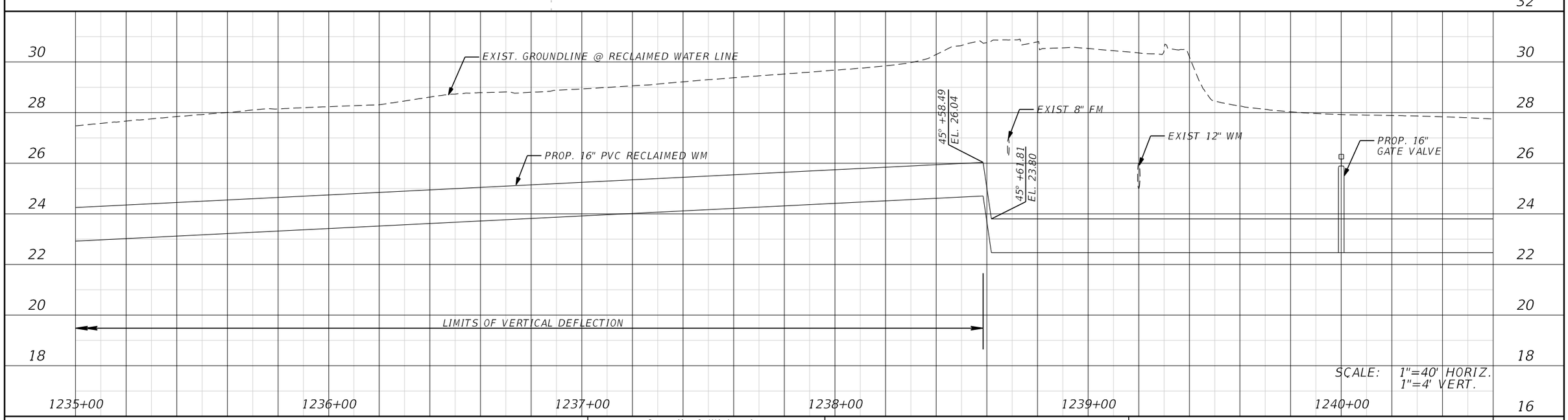
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

RECLAIMED WATER PLAN & PROFILE

SHEET NO. R-1

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F





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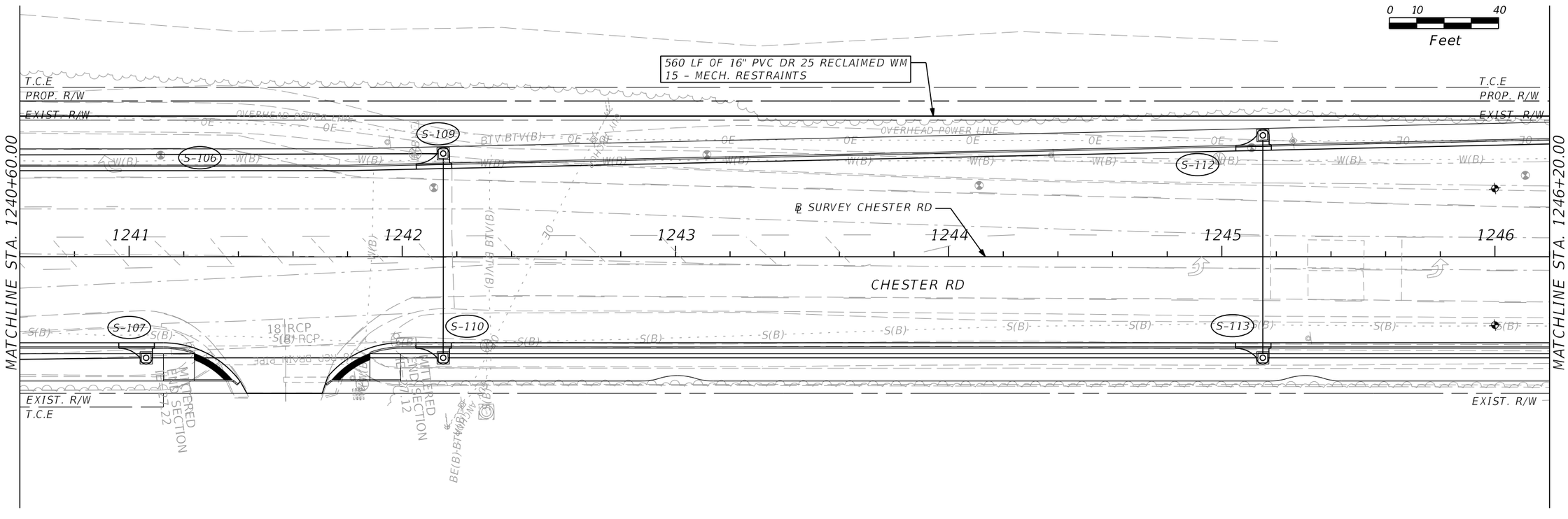
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

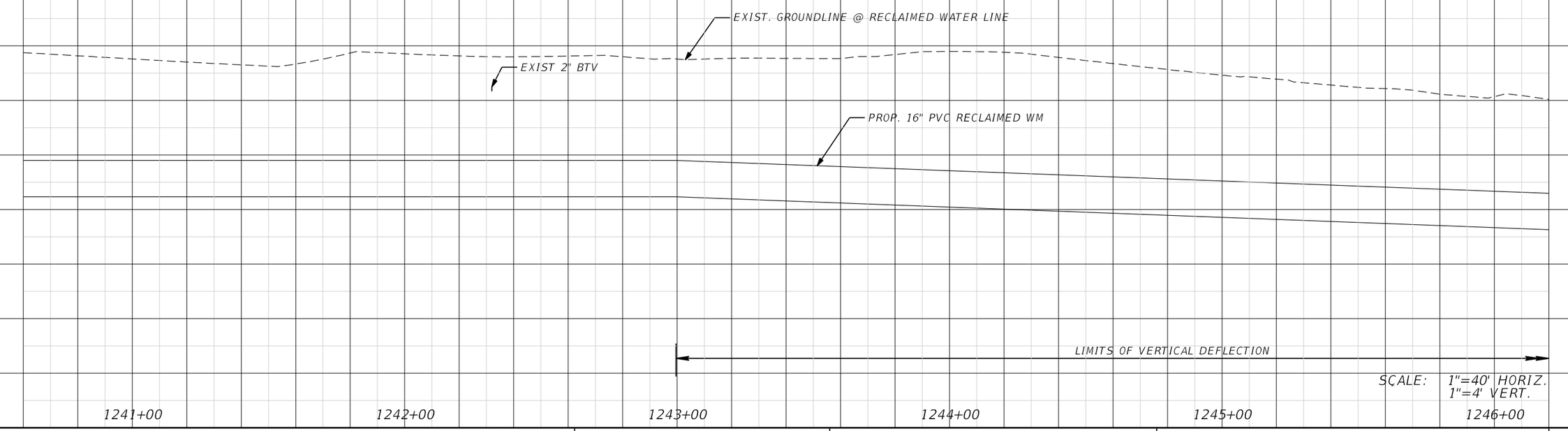
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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RECLAIMED WATER PLAN & PROFILE

SHEET NO. R-2

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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RECLAIMED WATER PLAN & PROFILE

SHEET NO. R-3

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

0 10 40
Feet

560 LF OF 16" PVC DR 25 RECLAIMED WM
330 LF OF 30" STEEL CASING
17 - 16" MECHANICAL RESTRAINTS
4 - 16" 45° MJ
2 - 16" 22.5° MJ
2 - 16" GATE VALVES

MATCHLINE STA. 1246+20.00

MATCHLINE STA. 187+40.00

T.C.E
PROP. R/W
EXIST. R/W

+32.60 51.51 LT
45° +55.08 51.51 LT
22.5° +18.05 42.61 LT
45° +81.13 40.71 LT
22.5° +13.48 40.61 LT

S-115 S-116 S-118 S-130 S-132 S-306 S-202 S-201 S-405

JACKING PIT LIMITS

1247 1248 1249 186 187

CHESTER RD

℄ SURVEY CHESTER RD

PAGES DAIRY ROAD

30" STEEL CASING
WITH 16" DI RECLAIMED WM

POT STA. 1249+37.34

POT STA. 249+33.87

PI STA. 185+61.57

N 7° 51' 45" E

EQUATION:
Sta 1249+37.34 BK ℄ SURVEY CHESTER RD =
Sta 249+33.87 ℄ SURVEY PAGES DAIRY RD

EQUATION:
Sta 1249+37.34 BK =
Sta 185+10.33 AH

45° +45.91
43.8 LT

45° +68.43
67.0 LT

+80.05
67.00 LT

RAILWAY TRACKS

SEABOARD COAST LINE RAILROAD

EXIST. GROUNDLINE @ RECLAIMED WATER LINE

PROP. 16" GATE VALVE

PROP. 18" PIPE

PROP. 24" PIPE

PROP. 14"x23" PIPE

PROP. 16" GATE VALV

45° +55.08
EL. 22.46

45° +81.13
EL. 18.29

22.5° +13.48
EL. 18.29

22.5° +18.05
EL. 18.29

+32.19
BEGIN CASING

9.1'

30" CASING (JACK & BORE)
WALL THICKNESS 0.47"

16" PVC RECLAIMED WM

+35.21
END CASING

45° +45.91
EL. 18.28

45° +68.43
EL. 22.24

LIMITS OF VERTICAL DEFLECTION

NOTE: JACK & BORE CASING PIPE ENDS MUST BE SEALED. INCLUDE VENT PIPES.

28 26 24 22 20 18 16 14

1247+00 1248+00 1249+00 186+00 187+00

SCALE: 1"=40' HORIZ.
1"=4' VERT.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Phone 904.265.3030 Fax 904.265.3031
CA No. 3650 LA No. LC26000311
Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

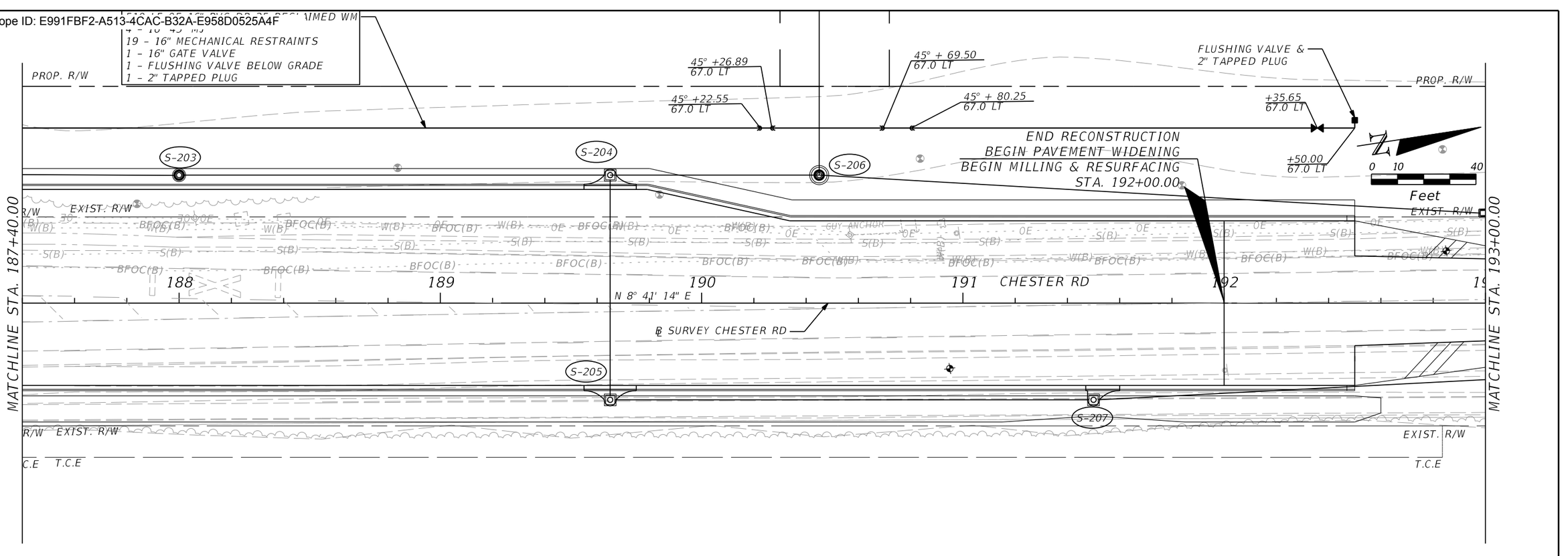
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

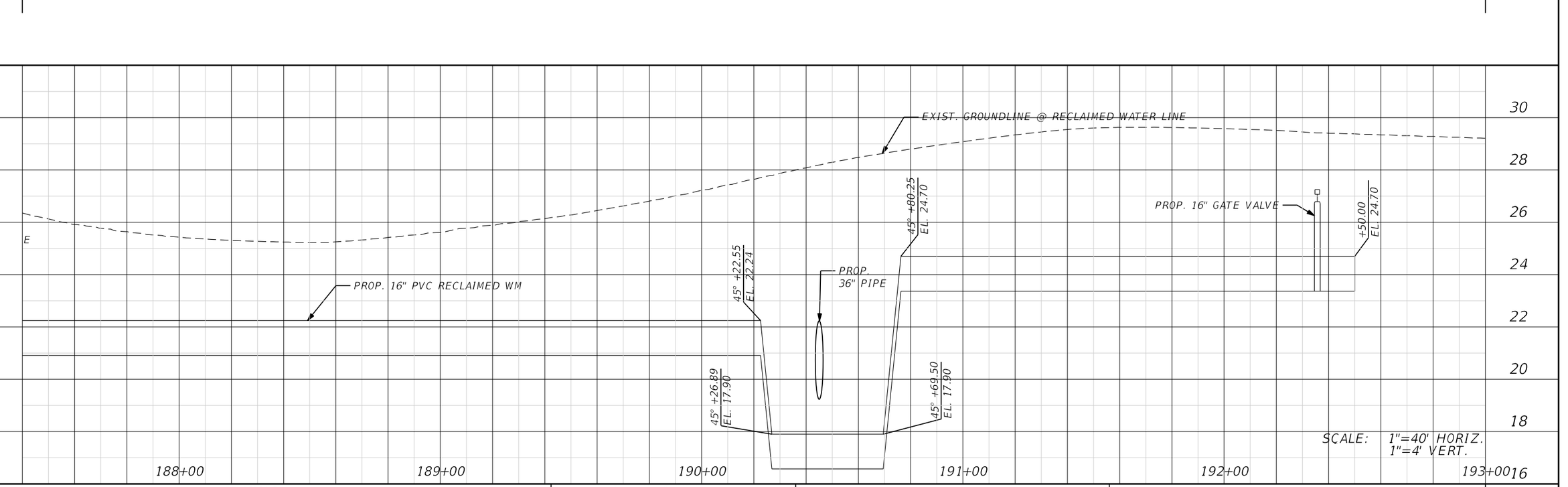
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

RECLAIMED WATER PLAN & PROFILE

SHEET NO. R-4

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Phone 904.265.3030 Fax 904.265.3031
CA No. 3650 LA No. LC26000311
Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

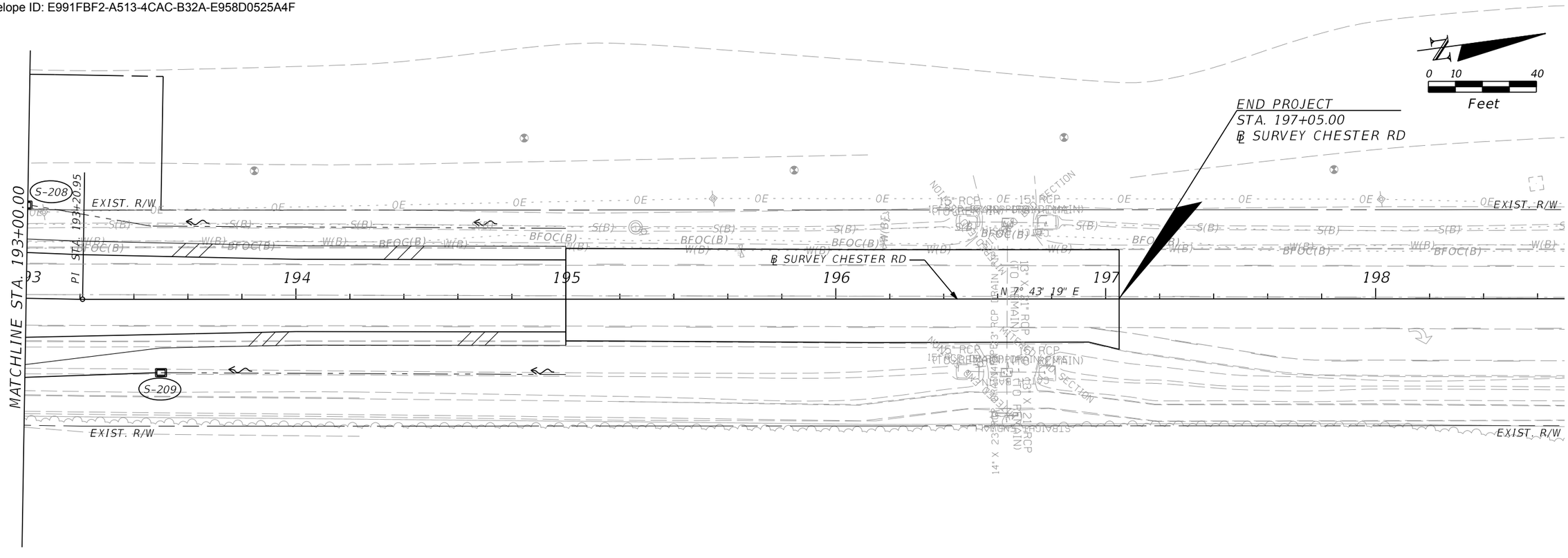
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

RECLAIMED WATER PLAN & PROFILE

SHEET NO. R-5

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



NO RECLAIMED WATER
LINES ON THIS SHEET

34 32 30 28 26 24 22 20

194+00 195+00 196+00 197+00 198+00

SCALE: 1"=40' HORIZ.
1"=4' VERT.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Phone 904.265.3030 Fax 904.265.3031
CA No. 3650 LA No. LC26000311
Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

RECLAIMED WATER PLAN & PROFILE

SHEET NO. R-6

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

HORIZONTAL & VERTICAL SEPARATION REQUIREMENTS

PROPOSED UTILITY

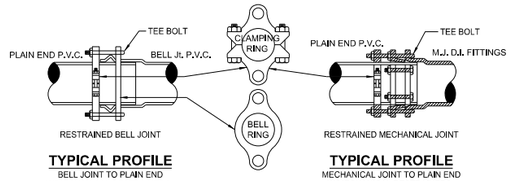
CONFLICTING UTILITY	POTABLE WATER			WASTEWATER GRAVITY AND FORCE MAIN			RECLAIMED WATER			VACUUM SEWERS		
	HORIZ.	VERT.	JOINT SPACING*	HORIZ.	VERT.	JOINT SPACING*	HORIZ.	VERT.	JOINT SPACING*	HORIZ.	VERT.	JOINT SPACING*
POTABLE WATER	3' NOTE 1	12"	3' NOTE 2	6' to 10'	12" NOTE 5	6' NOTE 2	3'	12"	6' NOTE 2	3' to 10'	12"	3' NOTE 2
RECLAIMED WATER	3'	12"	6' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3'	12"	6' NOTE 2	3' NOTE 1	12"	3' NOTE 2
WASTEWATER (GRAVITY AND FORCE MAIN)	6' to 10'	12"	6' NOTE 2	3' NOTE 1	12"	6"	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2
VACUUM SEWERS	3' to 10'	12"	3' NOTE 2	3' NOTE 1	12"	6"	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2
RIGHT OF WAYS	3' NOTE 1	N/A	N/A	3' NOTE 1	N/A	N/A	3' NOTE 1	N/A	N/A	3' NOTE 1	N/A	N/A
PERMANENT STRUCTURES (BUILDINGS, SIGNS, POLES, ETC.)	SEE NOTE 7	N/A	N/A	SEE NOTE 7	N/A	N/A	SEE NOTE 7	N/A	N/A	SEE NOTE 7	N/A	N/A
STORM SEWERS	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2
GAS	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2
TREES	3'-6" NOTE 6	N/A	N/A	3'-6" NOTE 6	N/A	N/A	3'-6" NOTE 6	N/A	N/A	3'-6" NOTE 6	N/A	N/A
ALL OTHER UTILITIES	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2

NOTES:

1. THIS SEPARATION REQUIREMENT IS TO PROVIDE ACCESSIBILITY FOR CONSTRUCTION AND MAINTENANCE. THREE FEET OF HORIZONTAL SEPARATION IS THE MINIMUM FOR PIPES WITH THREE FEET OF COVER. FOR PIPES INSTALLED AT GREATER DEPTH, PROVIDE AN ADDITIONAL FOOT OF SEPARATION FOR EACH ADDITIONAL FOOT OF DEPTH.
2. THE MINIMUM JOINT SPACING REQUIRED FROM CROSSING FROM OTHER UTILITIES WHILE STILL MAINTAINING MINIMUM VERTICAL SEPARATION.
3. DISTANCES GIVEN ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
4. NO WATER PIPE SHALL PASS THROUGH OR COME INTO CONTACT WITH ANY PART OF SANITARY OR STORM WATER MANHOLE OR STRUCTURES.
5. WATER MAIN SHOULD CROSS ABOVE OTHER PIPES WHENEVER POSSIBLE. WHEN WATER MAIN MUST BE BELOW OTHER UTILITY PIPING, THE MINIMUM SEPARATION SHALL BE 12 INCHES.
6. REFER TO SECTION 429, II.4.2.
7. REFER TO SECTION 429, II.4.1 FOR MINIMUM SEPARATION REQUIREMENTS FROM PIPE TO STRUCTURES.

SEPARATION REQUIREMENTS FOR WATER, WASTEWATER AND RECLAIMED WATER MAINS

JANUARY 2023 PLATE S-26

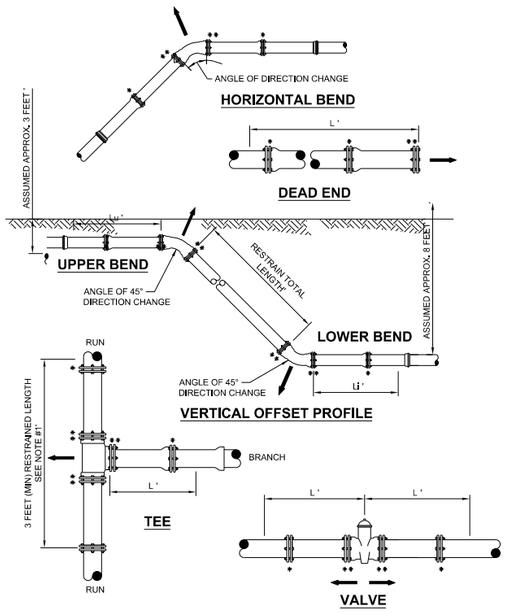


GENERAL NOTE:

1. PAY ITEM " * " DENOTES A RESTRAINT WHICH IS PAID FOR ON A PER EACH BASIS.
2. PAY ITEM " ** " DENOTES A RESTRAINT WHICH IS INCLUDED IN THE UNIT PRICE BID FOR FITTING OR VALVE.
3. ➡ INDICATES DIRECTION OF THRUST FORCE.

MECHANICAL RESTRAINT DETAILS - I

JANUARY 2023 PLATE S-38C



NOTES:

1. TOTAL LENGTH BETWEEN FIRST JOINTS OR RESTRAINED LENGTH ON EITHER SIDE OF TEE (RUN) SHALL BE A TOTAL DISTANCE OF 6 FEET (MIN.). THE PROJECT ENGINEER CAN INCREASE THIS LENGTH TO REDUCE THE NUMBER OF RESTRAINS REQUIRED. ANY CHANGES TO THIS TABLE MUST BE SUMMITTED TO JEA FOR APPROVAL.
2. PAY ITEM "*" DENOTES A RESTRAINT WHICH IS PAID FOR ON A PER EACH BASIC.
3. PAY ITEM "**" DENOTES A RESTRAINT WHICH IS INCLUDED IN THE UNIT PRICE BID FOR FITTING OR VALVE.

MECHANICAL RESTRAINT DETAILS - II

JANUARY 2023 PLATE S-38D

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

JEA CONSTRUCTION DETAILS

SHEET NO. U-3

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

HORIZONTAL & VERTICAL SEPARATION REQUIREMENTS

PROPOSED UTILITY

CONFLICTING UTILITY	POTABLE WATER			WASTEWATER GRAVITY AND FORCE MAIN			RECLAIMED WATER			VACUUM SEWERS		
	HORIZ.	VERT.	JOINT SPACING*	HORIZ.	VERT.	JOINT SPACING*	HORIZ.	VERT.	JOINT SPACING*	HORIZ.	VERT.	JOINT SPACING*
POTABLE WATER	3' NOTE 1	12"	3' NOTE 2	6' to 10'	12" NOTE 5	6' NOTE 2	3'	12"	6' NOTE 2	3' to 10'	12"	3' NOTE 2
RECLAIMED WATER	3'	12"	6' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3'	12"	6' NOTE 2	3' NOTE 1	12"	3' NOTE 2
WASTEWATER (GRAVITY AND FORCE MAIN)	6' to 10'	12"	6' NOTE 2	3' NOTE 1	12"	6"	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2
VACUUM SEWERS	3' to 10'	12"	3' NOTE 2	3' NOTE 1	12"	6"	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2
RIGHT OF WAYS	3' NOTE 1	N/A	N/A	3' NOTE 1	N/A	N/A	3' NOTE 1	N/A	N/A	3' NOTE 1	N/A	N/A
PERMANENT STRUCTURES (BUILDINGS, SIGNS, POLES, ETC.)	SEE NOTE 7	N/A	N/A	SEE NOTE 7	N/A	N/A	SEE NOTE 7	N/A	N/A	SEE NOTE 7	N/A	N/A
STORM SEWERS	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2
GAS	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2
TREES	3'-6' NOTE 6	N/A	N/A	3'-6' NOTE 6	N/A	N/A	3'-6' NOTE 6	N/A	N/A	3'-6' NOTE 6	N/A	N/A
ALL OTHER UTILITIES	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2

NOTES:

1. THIS SEPARATION REQUIREMENT IS TO PROVIDE ACCESSIBILITY FOR CONSTRUCTION AND MAINTENANCE. THREE FEET OF HORIZONTAL SEPARATION IS THE MINIMUM FOR PIPES WITH THREE FEET OF COVER. FOR PIPES INSTALLED AT GREATER DEPTH, PROVIDE AN ADDITIONAL FOOT OF SEPARATION FOR EACH ADDITIONAL FOOT OF DEPTH.
2. THE MINIMUM JOINT SPACING REQUIRED FROM CROSSING FROM OTHER UTILITIES WHILE STILL MAINTAINING MINIMUM VERTICAL SEPARATION.
3. DISTANCES GIVEN ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
4. NO WATER PIPE SHALL PASS THROUGH OR COME INTO CONTACT WITH ANY PART OF SANITARY OR STORM WATER MANHOLE OR STRUCTURES.
5. WATER MAIN SHOULD CROSS ABOVE OTHER PIPES WHENEVER POSSIBLE. WHEN WATER MAIN MUST BE BELOW OTHER UTILITY PIPING, THE MINIMUM SEPARATION SHALL BE 12 INCHES.
6. REFER TO POTABLE WATER PIPING- SECTION 350, III.4.11.
7. SEE SECTION 350, III.4.10 FOR MINIMUM SEPARATION REQUIREMENTS FROM PIPE TO STRUCTURES.

SEPARATION REQUIREMENTS FOR
WATER, WASTEWATER AND RECLAIMED WATER MAINS

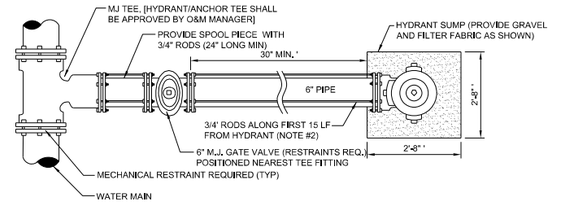
JANUARY 2023 PLATE W-10

WATER MAIN AND NON-WATER MAIN SEPARATION REQUIREMENTS - NOTES

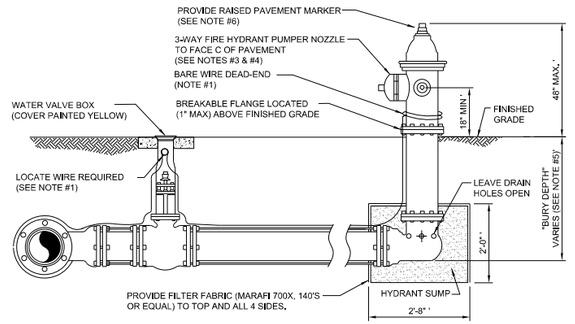
1. IT IS REQUIRED THAT "WATER MAINS" BE INSTALLED, CLEANED, DISINFECTED AND HAVE A SATISFACTORY BACTERIOLOGICAL SURVEY PERFORMED IN ACCORDANCE WITH THE LATEST APPLICABLE AWWA STANDARDS, CHAPTER 62-555, F.A.C, AND LATEST JEA WATER AND SEWER STANDARDS. FOR THE PURPOSE OF THIS SECTION, THE PHRASE "WATER MAINS" SHALL MEAN MAINS, INCLUDING TREATMENT PLANT PROCESS PIPING, CONVEYING EITHER RAW, PARTIALLY TREATED, OR FINISHED DRINKING WATER; FIRE HYDRANT LEADS; AND SERVICE LINES THAT HAVE AN INSIDE DIAMETER OF THREE (3) INCHES OR GREATER. IN ADDITION, THE PHRASE "RECLAIMED WATER" REFERS TO THE WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
2. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE (3) FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER.
3. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX (6) FEET, AND PREFERABLY TEN (10) FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY-TYPE SANITARY SEWERS MAY BE REDUCED TO THREE (3) FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX (6) INCHES ABOVE THE TOP OF THE SEWER (SPECIAL CASE).
4. NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX (6) INCHES, AND PREFERABLE TWELVE (12) INCHES, ABOVE OR AT LEAST TWELVE (12) INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
5. NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS A LEAST TWELVE (12) INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
6. AT THE UTILITY CROSSINGS DESCRIBED IN NOTES 4 AND 5 ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE (3) FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER, AND AT LEAST SIX (6) FEET FROM ALL JOINTS IN GRAVITY OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINE CONVEYING RECLAIMED WATER.
7. NEW OR RELOCATED FIRE HYDRANTS SHALL BE LOCATED SO THAT THE HYDRANTS ARE AT LEAST THREE (3) FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER AT LEAST THREE (3) FEET, AND PREFERABLY TEN (10) FEET, FROM ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER; AT LEAST SIX (6) FEET, AND PREFERABLY TEN (10) FEET, FROM ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE-TYPE SANITARY SEWER OR WASTEWATER FORCE MAIN.
8. WHERE AN UNDERGROUND WATER MAIN IS BEING LAID LESS THAN THE REQUIRED MINIMUM HORIZONTAL DISTANCE FROM ANOTHER PIPELINE AND WHERE AN UNDERGROUND WATER MAIN IS CROSSING ANOTHER PIPELINE AND JOINTS IN THE WATER MAIN ARE BEING LOCATED LESS THAN THE REQUIRED MINIMUM DISTANCE FROM JOINTS IN THE OTHER PIPELINE, THE CONTRACTOR SHALL CONSULT THE DESIGN ENGINEER TO OBTAIN APPROVAL OF ANY ALTERNATIVE CONSTRUCTION METHODS, PRIOR TO CONSTRUCTION.

NOTES ON UTILITY SEPARATION REQUIREMENTS

JANUARY 2023 PLATE W-11



PLAN



SECTION

NOTES:

1. LOCATE WIRE SHALL BE ROUTED FROM THE VALVE TO THE HYDRANT AS SHOWN ABOVE LEAVING ENOUGH SLACK TO REACH 4' ABOVE FINAL GRADE. THE END OF THE WIRE SHALL BE SECURED TO THE PIPE MAIN. SEE SECTION 350, LOCATE WIRE INSTALLATION PARAGRAPH.
2. FIRE HYDRANTS SHALL BE INSTALLED BETWEEN BACK OF CURB AND FACE OF SIDEWALK AND NOT WITHIN SWALE/DITCH AREAS. THE DISTANCE RANGE FROM EDGE OF ADJACENT PAVEMENT, BACK OF CURB AND FACE OF SIDEWALK SHALL BE IN COMPLIANCE WITH LOCAL COUNTY FIRE DEPARTMENT RULES AND AS APPROVED BY JEA AND APPLICABLE PERMITTING AGENCIES. DISTANCE SHALL BE MEASURED TO THE CLOSEST PART OF THE FIRE HYDRANT (I.E, THE PUMPER NOZZLE). THE MAXIMUM DISTANCE (BACK OF CURB) SHALL BE IN COMPLIANCE WITH LOCAL COUNTY FIRE DEPARTMENT RULES AND AS APPROVED BY JEA. FOR OTHER LOCATION LIMITATIONS SEE PLATES W-10 AND W-11, IF PIPING BETWEEN TEE AND HYDRANT IS LONGER THAN 80 LF, AN ADDITIONAL 6" GATE VALVE IS REQUIRED AT THE HYDRANT LOCATION (PROVIDE 30" SEPARATION). ALL PIPING, VALVES AND FITTINGS ALONG THE HYDRANT BRANCH MAIN WHICH IS WITHIN 15 LF OF THE HYDRANT SHALL BE RESTRAINED UTILIZING ONLY TWO 3/4" DIA (THREADED ENDS) STEEL RODS AND EYE BOLTS (NO JOINT RESTRAINT DEVICES REQUIRED). A SPLIT SERRATED RING WITH RESTRAINT EARS (EBAA 15 PF06 or EQUAL) MAYBE USED IN THIS ASSEMBLY. ALL OTHER JOINTS ALONG THE HYDRANT BRANCH MAIN OUTSIDE OF THE FIRST 15 LF SHALL INCLUDE JOINT RESTRAINTS.
3. OPERATION OF THE FIRE HYDRANT SHALL BE EITHER FULL OPEN POSITION OR TOTALLY CLOSED POSITION. THE HYDRANT SHALL NOT BE UTILIZED TO THROTTLE OUTLET FLOW.
4. PRIOR TO PROJECT FINAL INSPECTION, THE HYDRANT AND ALL ABOVE GROUND PIPING SHALL BE RE-OILED, GREASED AND REPAINTED (RUS- KIL ENAMEL-INTERNATIONAL YELLOW OR EQUAL). PRIVATELY OWNED AND MAINTAINED FIRE HYDRANTS SHALL BE PAINTED RED.
5. FIRE HYDRANTS SHALL BE ORDERED WITH PROPER "BURY DEPTH" TO MEET ACTUAL FIELD CONDITIONS, THIS IS ESPECIALLY IMPORTANT FOR BRANCH LINES WHICH TEE-OFF A 12" OR LARGER WATER MAIN, UNLESS APPROVED OTHERWISE BY JEA. THE INSTALLATION OF (45°) BENDS IS NOT ACCEPTABLE WHEN UTILIZED TO CORRECT AN IMPROPERLY FURNISHED HYDRANT. THE USE OF HYDRANT EXTENSIONS SHOULD BE MINIMIZED.
6. BLUE REFLECTIVE MARKERS SHALL BE INSTALLED IN SUCH A MANNER THAT THE REFLECTIVE FACE OF THE MARKER IS PERPENDICULAR TO A LINE PARALLEL TO THE ROADWAY CENTERLINE. THE BLUE REFLECTIVE MARKERS SHALL BE PLACED IN THE CENTER OF THE TRAVEL LANE, DIRECTLY ACROSS FROM AND ADJACENT TO EACH FIRE HYDRANT.

FIRE HYDRANT INSTALLATION
USING MECHANICAL JOINT TEE

JANUARY 2023 PLATE W-13

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

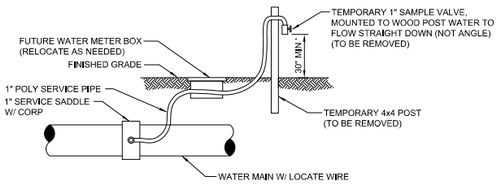
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

JEA CONSTRUCTION DETAILS

SHEET NO. U-4

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



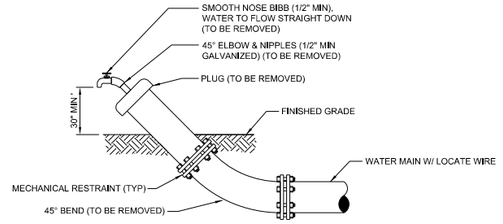
TEMPORARY SAMPLE TAP UTILIZING A NEW 1" WATER SERVICE

NOTES:

1. LOCATION OF SAMPLE POINT BIBB SHALL NOT BE WITHIN THE ROADWAY BUT ROUTED TO THE ROAD SHOULDERS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY PIPING & FITTINGS (AS NOTED) AFTER BACTERIOLOGICAL CLEARANCE IS RECEIVED.
3. THE CONTRACTOR SHALL UTILIZE THE ABOVE ALTERNATIVE METHODS FOR CONSTRUCTION OF TEMPORARY SAMPLE POINTS IN ALL AREAS, WHERE POSSIBLE.
4. THE CONTRACTOR SHALL COMPLY WITH ALL JEA RULES AND POLICIES AS OUTLINED BY THE JEA'S ENVIRONMENTAL RESPONSE COORDINATOR (ERC) AND OTHER ASSOCIATED JEA STANDARDS.

TEMPORARY SAMPLE TAP ALTERNATIVE METHOD A

JANUARY 2023 PLATE W-24



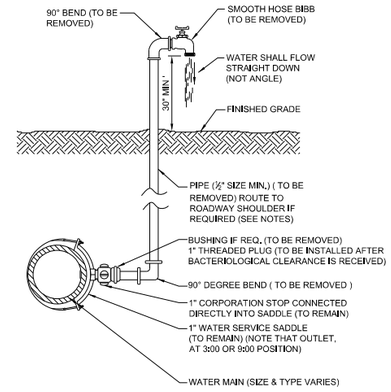
TEMPORARY SAMPLE TAP UTILIZING PLUG AT FLUSHING LOCATION

NOTES:

1. LOCATION OF SAMPLE POINT BIBB SHALL NOT BE WITHIN THE ROADWAY BUT ROUTED TO THE ROAD SHOULDERS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY PIPING & FITTINGS (AS NOTED) AFTER BACTERIOLOGICAL CLEARANCE IS RECEIVED.
3. THE CONTRACTOR SHALL UTILIZE THE ABOVE ALTERNATIVE METHODS FOR CONSTRUCTION OF TEMPORARY SAMPLE POINTS IN ALL AREAS, WHERE POSSIBLE.
4. THE CONTRACTOR SHALL COMPLY WITH ALL JEA RULES AND POLICIES AS OUTLINED BY THE JEA'S ENVIRONMENTAL RESPONSE COORDINATOR (ERC) AND OTHER ASSOCIATED JEA STANDARDS.

TEMPORARY SAMPLE TAP ALTERNATIVE METHOD B

JANUARY 2023 PLATE W-24A



NOTES:

1. LOCATION OF SAMPLE POINT BIBB SHALL NOT BE WITHIN THE ROADWAY BUT ROUTED TO THE ROADWAY SHOULDERS (NON-TRAFFIC AREAS).
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY PIPING & FITTINGS (AS NOTED), AFTER BACTERIOLOGICAL CLEARANCE IS RECEIVED.
3. PIPE AND FITTINGS SHALL BE PVC (SCH. 40) OR GALV. MATERIAL.
4. THE USE OF THE ABOVE CONSTRUCTION FOR A TEMPORARY SAMPLE POINT SHALL BE LIMITED TO AREAS WHERE A SAMPLE TAP BY ALTERNATIVE METHODS (SEE W-24) IS NOT FEASIBLE OR IF DIRECTED OTHERWISE BY JEA.
5. THE CONTRACTOR SHALL COMPLY WITH ALL JEA RULES AND POLICIES AS AS OUTLINED BY JEA'S ENVIRONMENTAL RESPONSE COORDINATOR (ERC) AND OTHER ASSOCIATED JEA STANDARDS.

TEMPORARY SAMPLE TAP

JANUARY 2023 PLATE W-25

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

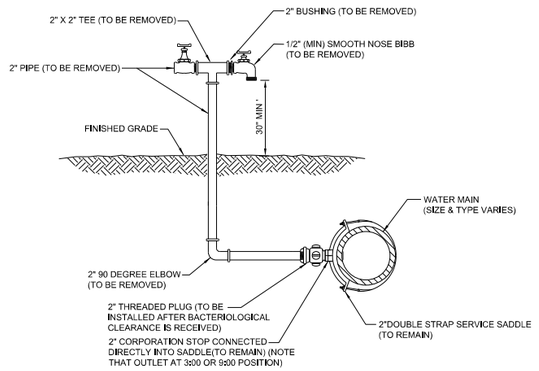
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

JEA CONSTRUCTION DETAILS

SHEET NO. U-5

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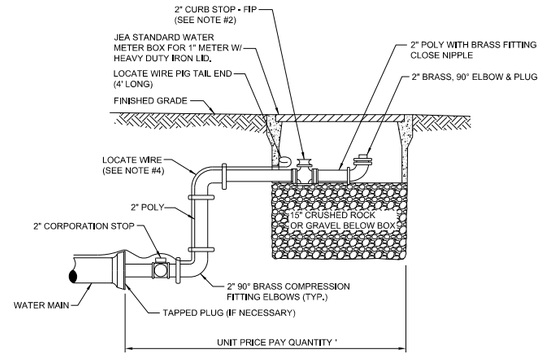


NOTES:

1. LOCATION OF SAMPLE POINT BIBB SHALL NOT BE WITHIN THE ROADWAY BUT ROUTED TO THE ROADWAY SHOULDERS (NON-TRAFFIC AREAS).
2. ALL PIPE & FITTING SHALL BE GALVANIZED MATERIAL OR PVC (S-40).
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY PIPING & FITTING (AS NOTED) AFTER BACTERIOLOGICAL CLEARANCE IS RECEIVED
4. THE CONTRACTOR SHALL COMPLY WITH ALL JEA RULES AND POLICES AS OUTLINED BY THE JEA'S ENVIRONMENTAL RESPONSE COORDINATOR (ERC) AND OTHER ASSOCIATED JEA STANDARDS.

2" TEMPORARY SAMPLE TAP FOR STUB OUT

JANUARY 2023 PLATE W-26

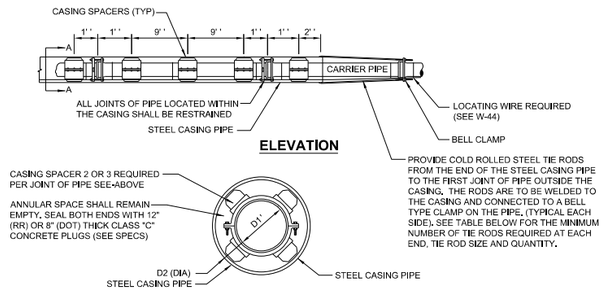


NOTES:

1. PIPE SHALL BE POLYETHYLENE. FITTINGS SHALL BE BRASS.
2. THE 2" CURB STOP SHALL BE ALL BRONZE. FITTINGS SHALL BE BRASS.
3. ANY RECLAIMED WATER VALVE SHALL HAVE RECLAIMED EMBLEM.
4. LOCATE WIRE FOR 10' OR GREATER IN LENGTH.
5. CANNOT BE PLACED UNDER CONCRETE OR PAVEMENT.
6. PLACE 2 FEET PAST LAST WATER MAIN SERVICE CONNECTION.

FLUSHING VALVE BELOW GRADE

JANUARY 2023 PLATE W-28



ELEVATION

SECTION "A-A"

CARRIER TYPE AND CASING PIPE SIZES (MIN) IN INCHES														
CARRIER PIPE NO. DIA. (D_1)	4	6	8	10	12	14	16	18	20	24	30	36	42	48
CASING PIPE NOM. DIA. (D_2)	14	16	20	20	24	30	30	30	36	42	48	54	60	66
WALL THICKNESS RAILROAD-(FEC)	0.25	1.25	0.375	0.375	0.375	0.50	0.50	0.50	0.562	0.625	0.625	0.688	0.781	0.781
WALL THICKNESS RAILROAD-(CSX)	0.25	0.281	0.375	0.375	0.375	0.469	0.469	0.469	0.562	0.625	0.688	0.781	0.844	0.938
WALL THICKNESS DOT	0.25	0.25	0.25	0.25	0.25	0.312	0.312	0.312	0.375	0.50	0.50	0.50	0.50	0.50
NUMBER OF TIE RODS (EACH END)	2	2	2	4	4	6	6	8	8	12	14	14	16	16
TIE ROD SIZE (DIA.)	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	1"	1"	1 1/4"	1 1/4"

PIPE MAIN CROSSINGS FOR RAILROADS OR HIGHWAYS

NOTES:

1. MIN. COVER TO TOP OF CASING: a) FDOT-3.0' b)RAILROAD-5.5' TO BASE OF RAIL, 4.5' FOR SECONDARY OR INDUSTRIAL TRACKS. EXCEPT FOR F.E.C. (SEE NOTE 3)
2. THE INSIDE DIAMETER OF THE CASING PIPE SHALL BE A MINIMUM OF 4 INCHES GREATER THAN THE OUTSIDE DIAMETER OF THE CARRIER PIPE BELL OR COUPLING, HOWEVER, A MINIMUM OF 6 INCHES IS REQUIRED FOR FLORIDA EAST COAST R.R. CROSSINGS.
3. THE MINIMUM COVER FOR CASING UNDER FLORIDA EAST COAST RAILROAD SHALL BE 5.0 FEET BELOW THE BOTTOM OF TIES FOR ALL TRACKS.
4. ALL JOINTS WITHIN CARRIES PIPE SHALL BE MECHANICAL RESTRAINED JOINTS.
5. FOR STREET USES WHICH ARE NOT DOT OR RAILROAD, USE DOT CASING THICKNESS UNLESS OTHERWISE INDICATED BY ENGINEER.
6. CASING PIPE SHALL BE FURNISHED IN NOMINAL 8 FOOT LENGTHS (MIN.) UNLESS OTHERWISE INDICATED ON THE DRAWING OR APPROVED BY JEA.
7. PIPE TO BE USED AS A CASING SHALL CONFORM TO EITHER ASTM STANDARD A139 FOR "ELECTRIC FUSION (ARC) WELDED STEEL PIPE", WITH A MINIMUM YIELD STRENGTH OF 35,000 PSI OR "API SPECIFICATION API-5LX, GRADE X-42 WELDED STEEL PIPE".

TYPICAL CASING DETAIL - WATER

JANUARY 2023 PLATE W-30

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

JEA CONSTRUCTION DETAILS

SHEET NO. U-6

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PVC PIPE RESTRAINT NOTES:

1. THIS SCHEDULE SHALL BE UTILIZED ON ALL WATER, SEWER FORCE MAIN OR RECLAIMED WATER SYSTEMS. ALL FITTINGS SHALL BE RESTRAINED TO LENGTHS INDICATED ON THE ABOVE SCHEDULE, AT A MINIMUM.
2. ASSUMPTIONS: PVC PIPE, SAFETY FACTOR=1.5, TEST PRESSURE=150PSI, SOIL=SM OR SM, TRENCH TYPE 3, DEPTH OF COVER=30 INCHES FOR 20" AND SMALLER PIPE SIZE OR 36 INCHES FOR 24" AND LARGER PIPE SIZE.
3. BENDS AND VALVES: SHALL BE RESTRAINED ON EACH SIDE OF FITTING.
4. VERTICAL OFFSETS: ARE APPROX. 3 FEET COVER ON TOP AND APPROX. 8 FEET COVER ON BOTTOM, PER THE DETAILS. L_U IS THE RESTRAINED LENGTH FOR THE UPPER (TOP) LEVEL, L_L IS THE RESTRAINED LENGTH FOR THE LOWER (DEEPER) LEVEL, ASSUME 45 DEGREE BENDS.
5. TEES: TOTAL LENGTH BETWEEN FIRST JOINTS OR RESTRAINED LENGTH ON EITHER SIDE OF TEE (RUN) SHALL BE A TOTAL DISTANCE OF 30 FEET (MIN), SEE SCHEDULE ABOVE FOR RESTRAINT LENGTH ON TEE "BRANCH" LINE.
6. HDPE TO PVC TRANSITIONS: THE PVC PIPE SIDE SHALL BE RESTRAINED 35 FT (MIN).
7. THE INSTALLATION OF BELL HARNESS RESTRAINTS AT PVC JOINTS (DR-18 & 25 PIPE) SHALL BE COMPLETED PER THE MANUFACTURERS RECOMMENDATION, WHICH INCLUDES 360° OVER TIGHTENING THE PARALLEL RODS/NUTS, THESE NUTS SHOULD ONLY BE SNUG TIGHT, THE HOME MARKS ON THE PIPE SHOULD ALWAYS BE VISIBLE AFTER THE RESTRAINT IS INSTALLED, OVERHOMING THE JOINT MAY CAUSE A FAILURE AT THE BELL RESULTING IN A SERVICE OUTAGE.

LENGTH (L) TO BE RESTRAINED (SEE PLATE Nos. 38C & 38D FOR ADDITIONAL DETAILS)

NOMINAL PIPE SIZE (IN.)	HORIZONTAL BENDS 90° BENDS L (FT.)	45° BENDS L (FT.)	22.5° BENDS L (FT.)	11.25° BENDS L (FT.)	VERTICAL OFFSETS 45° BENDS (SEE NOTE 4) UPPER L (FT.)	LOWER L (FT.)	VALVES OR DEAD ENDS L (FT.)
4	21	9	5	3	17	3	47
6	30	13	6	3	23	4	66
8	38	16	8	4	30	6	86
10	45	19	9	5	36	7	103
12	53	22	11	6	43	8	121
14	61	26	13	6	50	9	140
16	66	28	14	7	55	10	154
18	73	30	15	8	60	11	170
20	79	33	16	8	66	12	186
24	79	33	16	8	77	15	185
30	93	39	19	10	97	17	222
36	106	39	21	11	107	20	257
42	117	49	24	12	120	24	289
48	144	53	26	13	133	26	321

REDUCERS SIZE (IN.)	L (FT.)
6x4	34
8x6	36
8x4	62
10x8	35
10x6	63
12x10	36
12x8	64
16x12	66
16x10	92
20x18	35
20x16	66
20x12	117
24x20	56
24x18	80
24x16	101
30x24	78
30x20	121
36x30	78
36x24	141
42x36	75
42x30	140
48x42	75
48x36	139

TEES SEE NOTE 5 RUN SIZE (IN.)	BRANCH SIZE (IN.)	L (FT.)
4	4	F.O.
4	6	10
	4 < LESS	F.O.
8	8	29
	6 < LESS	F.O.
10	10	45
	8	13
	6 < LESS	F.O.
12	12	62
	10	32
	8 < LESS	F.O.
16	16	94
	12	39
	10	5
	10 < LESS	F.O.
20	20	125
	16	76
	12	14
	10 < LESS	F.O.
24	24	124
	20	84
	16	36
	12 < LESS	F.O.
30	30	159
	24	104
	20	60
	16	5
	16 < LESS	F.O.
36	36	192
	30	142
	24	83
	20	33
	16 < LESS	F.O.
42	42	223
	36	178
	30	124
	24	59
	20	5
	16 < LESS	F.O.
48	48	253
	42	209
	36	162
	30	104
	24	34
	20 < LESS	F.O.

F.O. = FITTING ONLY

PVC PIPE RESTRAINT JOINT SCHEDULE

JANUARY 2023 PLATE W-31A

DUCTILE IRON PIPE RESTRAINT NOTES:

1. THIS SCHEDULE SHALL BE UTILIZED ON ALL WATER, SEWER FORCE MAIN OR RECLAIMED WATER SYSTEMS, ALL FITTINGS SHALL BE RESTRAINED TO LENGTHS INDICATED ON THE ABOVE SCHEDULE, AT A MINIMUM.
2. ASSUMPTIONS: DUCTILE IRON PIPE (WITHOUT POLY WRAP), SAFETY FACTOR=1.5, TEST PRESSURE=150PSI, SOIL=GM OR SM, TRENCH TYPE 3, DEPTH OF COVER=30 INCHES FOR 20" AND SMALLER PIPE SIZE OR 36 INCHES FOR 24" AND LARGER PIPE SIZE. FOR D.I.P. W/POLY WRAP, USE RESTRAINT JOINT SCHEDULE FOR PVC PIPE.
3. BENDS AND VALVES: SHALL BE RESTRAINED ON EACH SIDE OF FITTING.
4. VERTICAL OFFSETS: ARE APPROX. 3 FEET COVER ON TOP AND APPROX. 8 FEET COVER ON BOTTOM. PER THE DETAILS, L_U IS THE RESTRAINED LENGTH FOR THE UPPER (TOP) LEVEL, L_L IS THE RESTRAINED LENGTH FOR THE LOWER (DEEPER) LEVEL, ASSUME 45 DEGREE BENDS.
5. TEES: TOTAL LENGTH BETWEEN FIRST JOINTS OR RESTRAINED LENGTH ON EITHER SIDE OF TEE (RUN) SHALL BE A TOTAL DISTANCE OF 30 FEET (MIN), SEE SCHEDULE ABOVE FOR RESTRAINT LENGTH ON TEE "BRANCH" LINE.
6. HDPE TO D.I.P. TRANSITIONS: THE D.I.P. PIPE SIDE SHALL BE RESTRAINED 35 FT (MIN).

LENGTH (L) TO BE RESTRAINED (SEE PLATE Nos, 38C & 38D FOR ADDITIONAL DETAILS)

NOMINAL PIPE SIZE (IN.)	HORIZONTAL BENDS 90° BENDS L (FT.)	45° BENDS L (FT.)	22.5° BENDS L (FT.)	11.25° BENDS L (FT.)	VERTICAL OFFSETS 45° BENDS (SEE NOTE 4) UPPER L (FT.)	LOWER L (FT.)	VALVES OR DEAD ENDS L (FT.)
4	17	7	4	2	11	3	30
6	24	15	5	3	15	4	42
8	31	13	6	3	20	5	55
10	36	15	8	4	23	6	65
12	42	18	9	5	27	7	77
14	48	20	10	5	31	7	87
16	53	22	11	6	35	8	97
18	58	24	12	6	39	9	107
20	63	27	13	6	42	10	118
24	63	27	13	7	49	12	118
30	75	31	15	8	59	14	141
36	86	36	17	9	68	17	163
42	95	40	19	10	76	19	183
48	117	43	21	11	84	21	203

REDUCERS SIZE (IN.)	L (FT.)
6x4	22
8x6	23
8x4	39
10x8	22
10x6	40
12x10	23
12x8	41
16x12	42
16x10	58
20x18	22
20x16	42
20x12	74
24x20	36
24x18	51
24x16	64
30x24	50
30x20	77
36x30	50
36x24	89
42x36	48
42x30	89
48x42	48
48x36	88

TEE SEE NOTE 5 RUN SIZE (IN.)	BRANCH SIZE (IN.)	L (FT.)
4	4	F.O.
4	6	6
	4 < LESS	F.O.
8	8	19
	6 < LESS	F.O.
10	10	29
	8	9
	6 < LESS	F.O.
12	12	40
	10	21
	8 < LESS	F.O.
16	16	60
	12	25
	10	3
	8 < LESS	F.O.
20	20	79
	16	48
	12	9
	10 < LESS	F.O.
24	24	79
	20	54
	16	23
	12 < LESS	F.O.
30	30	101
	24	66
	20	38
	16	4
	12 < LESS	F.O.
36	36	122
	30	90
	24	53
	20	21
	16	1
	12 < LESS	F.O.
42	42	141
	36	113
	30	79
	24	38
	20	3
	16	1
	12 < LESS	F.O.
48	48	160
	42	133
	36	103
	30	66
	24	22
	20 < LESS	F.O.

F.O. = FITTING ONLY

DUCTILE IRON PIPE RESTRAINT JOINT SCHEDULE

JANUARY 2023 PLATE W -31B

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REVISIONS DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

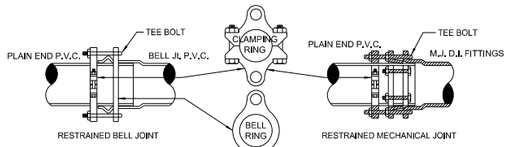
NASSAU COUNTY ENGINEERING

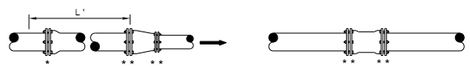
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

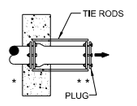
JEA CONSTRUCTION DETAILS

SHEET NO. U-7

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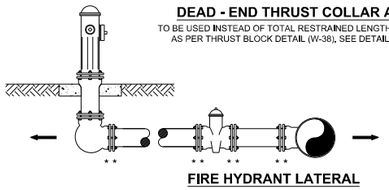


NO. OF TIE RODS REQUIRED

3" - 8"	DIAMETER MAIN - 2 TIE RODS REQUIRED PER JOINT (3/4" ROD)
10" - 12"	DIAMETER MAIN - 4 TIE RODS REQUIRED PER JOINT (3/4" ROD)
14" - 16"	DIAMETER MAIN - 6 TIE RODS REQUIRED PER JOINT (3/4" ROD)
18" - 20"	DIAMETER MAIN - 8 TIE RODS REQUIRED PER JOINT (3/4" ROD)
24"	DIAMETER MAIN - 12 TIE RODS REQUIRED PER JOINT (3/4" ROD)
30" - 36"	DIAMETER MAIN - 14 TIE RODS REQUIRED PER JOINT (1" ROD)
42" - 48"	DIAMETER MAIN - 16 TIE RODS REQUIRED PER JOINT (1 1/4" ROD)
54"	DIAMETER MAIN - 18 TIE RODS REQUIRED PER JOINT (1 1/4" ROD)

DEAD - END THRUST COLLAR ANCHOR

TO BE USED INSTEAD OF TOTAL RESTRAINED LENGTH (OPTIONAL) SIZE AS PER THRUST BLOCK DETAIL (W-38), SEE DETAILS W-36 & W-37.



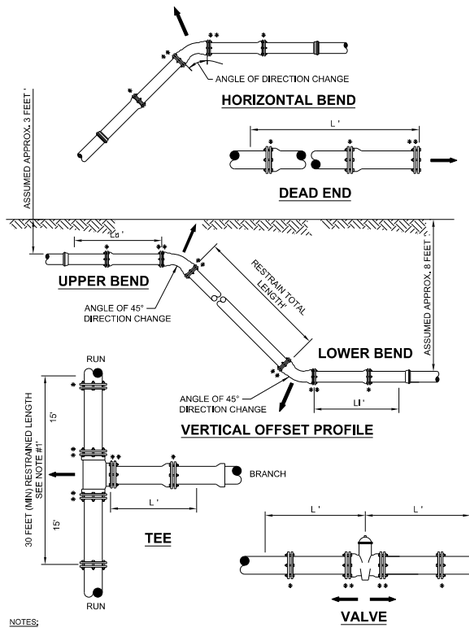
FIRE HYDRANT LATERAL

GENERAL NOTE:

1. PAY ITEM " * " DENOTES A RESTRAINT WHICH IS PAID FOR ON A PER EACH BASIS.
2. PAY ITEM " ** " DENOTES A RESTRAINT WHICH IS INCLUDED IN THE UNIT PRICE BID FOR FITTING OR VALVE.
3. ⟶ INDICATES DIRECTION OF THRUST FORCE.

MECHANICAL RESTRAINT DETAILS - I

JANUARY 2023 — PLATE W-31C

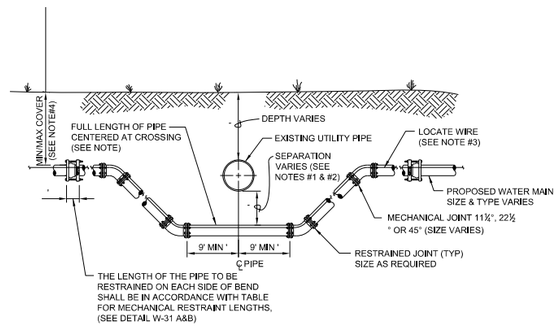


NOTES:

1. TOTAL LENGTH BETWEEN FIRST JOINTS OR RESTRAINED LENGTH ON EITHER SIDE OF TEE (RUN) SHALL BE A TOTAL DISTANCE OF 30 FEET (MIN.).
2. PAY ITEM "*" DENOTES A RESTRAINT WHICH IS PAID FOR ON A PER EACH BASIC.
3. PAY ITEM "**" DENOTES A RESTRAINT WHICH IS INCLUDED IN THE UNIT PRICE BID FOR FITTING OR VALVE.

MECHANICAL RESTRAINT DETAILS - II

JANUARY 2023 — PLATE W-31D



CASE "B" CROSSING

NOTES:

1. THE SOILS BETWEEN THE NEW MAIN AND THE CONFLICT PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST, ASTM D 1557
2. FOR MINIMUM VERTICAL SEPARATION REQUIREMENTS SEE DETAILS (W-10 AND W-11)
3. LOCATING WIRE REQUIRED: SEE DETAIL W-44.
4. THE COVER FOR PIPING LESS THAN 24" SIZE SHALL BE 30" (MIN) IN UNPAVED AREA, 36" (MIN) IN PAVED AREAS AND A MAXIMUM COVER OF 60", UNLESS APPROVED BY JEA. THE COVER FOR PIPING 24" SIZE AND LARGER SHALL BE 36" (MIN) IN PAVED AND UNPAVED AREAS AND A MAXIMUM COVER OF 84", UNLESS APPROVED BY JEA.
5. IN LOCATIONS WHERE WATER/RECLAIM MAINS CROSS UNDER A BOX-CULVERT, OR 36-INCH DIAMETER AND LARGER STORM WATER MAIN, JEA WILL REQUIRE DIP TO BE UTILIZED FOR THE MAIN.

ADJUSTMENT UNDER EXISTING UTILITIES MECHANICAL RESTRAINTS

JANUARY 2023 — PLATE W-34

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

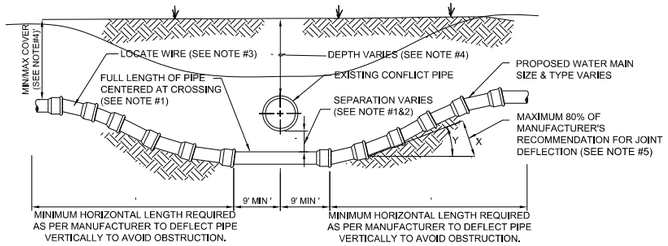
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

JEA CONSTRUCTION DETAILS

SHEET NO. U-8

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



CASE "B" CROSSING

MAXIMUM ALLOWED OFFSET FOR PIPE BY JOINT DEFLECTION

PVC PIPE

PIPE SIZE (IN.)	(X) MAX. OFFSET (IN.)	(Y) ANGLE AT ONE BELL	RESULTING RADIUS OF CURVE WITH 20FT. LENGTHS
2	30	7°	158 FT
4	10	2.4°	480 FT
6	10	2.4°	480 FT
8	10	2.4°	480 FT
10	10	2.4°	480 FT
12	8.5	2°	564 FT
14 - 24	5	1.2°	960 FT
30 - 48	3.25	0.8°	1477 FT

DUCTILE IRON PIPE (Mechanical Joint)

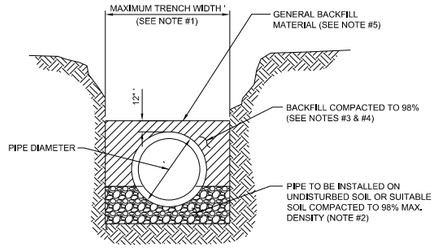
PIPE SIZE (IN.)	(X) MAX. OFFSET (IN.)	(Y) ANGLE AT ONE BELL	RESULTING RADIUS OF CURVE WITH 20FT. LENGTHS
-	-	-	-
4	27	6.5°	177 FT
6	24	5.7°	200 FT
8 - 12	17.5	4.2°	273 FT
14 - 16	12	2.9°	400 FT
18 - 20	10	2.4°	477 FT
24 - 30	8	1.9°	600 FT
36	7	1.7°	687 FT
42 - 48	6.7	1.6°	716 FT

NOTES:

1. IF EXISTING CONFLICT PIPE IS A WATER MAIN, 12-INCHES OF SEPARATION IS REQUIRED. A FULL LENGTH OF PIPE SHALL BE CENTERED OVER EXISTING UTILITY MAIN TO PROVIDE MAXIMUM JOINT SPACING FOR ALL CROSSING.
2. FOR OTHER LOCATION LIMITATIONS SEE DETAIL (W-10 & W-11).
3. LOCATING WIRE REQUIRED: SEE DETAIL W-44.
4. THE COVER OVER ALL PIPING LESS THAN 24" SIZE SHALL BE A MINIMUM OF 30" IN UNPAVED AREAS AND 36" IN PAVED AREAS WITH A MAXIMUM COVER OF 60" UNLESS APPROVED OTHERWISE BY JEA. COVER FOR PIPING 24" SIZE AND LARGER SHALL BE MINIMUM OF 36" (PAVED AND UNPAVED) AND MAXIMUM OF 84" UNLESS APPROVED OTHERWISE BY JEA. THE SOILS BETWEEN THE NEW MAIN AND THE CONFLICT PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST ASTM D 1557.
5. JEA ONLY ALLOWS 80% OF THE PIPE MANUFACTURER'S RECOMMENDATION FOR JOINT DEFLECTION. BENDING THE PIPE BARREL IS NOT ALLOWED. UNLESS OTHERWISE APPROVED BY JEA, THE MAXIMUM ARE LISTED IN TABLE BELOW. ONLY MANUAL FORCE CAN BE UTILIZED TO OBTAIN THESE JOINT DEFLECTION. ALL OFFSETS ARE BASED ON MINIMUM 20LF PIPE LENGTH.

ADJUSTMENT UNDER EXISTING UTILITIES PIPE JOINT DEFLECTION

JANUARY 2023 — PLATE W-40



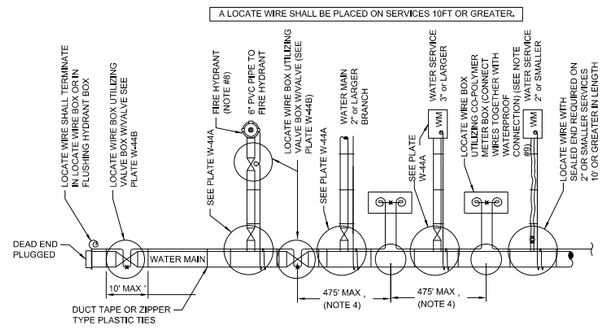
TYPICAL TRENCH

NOTES:

1. TRENCH SIDES SHALL BE APPROXIMATELY VERTICAL BETWEEN AN ELEVATION OF 1 FOOT ABOVE THE TOP OF THE PIPE AND THE CENTER LINE OF THE PIPE; OTHERWISE, TRENCH SIDES SHALL BE AS VERTICAL AS POSSIBLE OR AS REQUIRED BY OSHA STANDARDS. REFER TO THE MEASUREMENT AND PAYMENT SECTION (SECTION #801, PARAGRAPH #4)) TO DETERMINE MAXIMUM PAYLINE WIDTHS.
2. BELL HOLE SHALL BE DUG TO PERMIT THE ENTIRE STRAIGHT BARREL OF THE PIPE TO REST ON THE UNDISTURBED TRENCH BOTTOM. BOULDERS OR LOOSE ROCKS LARGER THAN 3/4 INCH IN SIZE WILL NOT BE PERMITTED IN BACKFILL UP TO 1 FOOT ABOVE THE TOP OF THE PIPE.
3. BACK FILL MATERIAL UP TO A LEVEL OF 1 FOOT OVER THE PIPE SHALL CONSIST OF AASHTO CLASS A-3 SOIL (SUITABLE SOIL) AND SHALL EXCLUDE CLAY MATERIALS AND LOOSE ROCKS LARGER THAN 3/4 INCH SIZE.
4. BACKFILL MATERIAL UP TO A LEVEL 1 FOOT OVER THE TOP OF PIPE OR BOTTOM OF STRUCTURES SHALL BE PLACED IN 6 INCH COMPACTED THICKNESS LAYERS AND SHALL BE COMPACTED TO 98% OF IT'S MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST, ASTM D1557.
5. SEE " EXCAVATION AND EARTHWORK", SECTION 408 FOR ADDITIONAL REQUIREMENTS INCLUDING REMOVAL AND REPLACEMENT OF UNSUITABLE SOILS, DEWATERING, COMPACTION REQUIREMENTS AND DENSITY TESTING OF COMPACTED SOILS.

OPEN CUT TRENCH FOR PRESSURE PIPE

JANUARY 2023 — IN CITY RIGHT -OF-WAY — PLATE W-42



LOCATE WIRE SYSTEM

NOTES:

1. LOCATING WIRE TO BE INSTALLED IN EITHER THE ONE OR ELEVEN O'CLOCK POSITION ON ALL DUCTILE IRON OR PVC (PRESSURE MAINS). LOCATE WIRE SHALL ALSO BE INSTALLED ON ALL (HDPE) POLY MAIN PIPING (1:00 OR 11:00 POSITION, IF POSSIBLE).
2. SECURE LOCATING WIRE TO PVC & D.I.P. WATER MAIN BY USE OF DUCT TAPE OR ZIPPER TYPE PLASTIC TIE STRAPS SPACED AT A MAXIMUM DISTANCE OF TEN (10') AND AT EACH SIDE OF BELL JOINT OR FITTING.
3. THE ENTIRE LOCATING SYSTEM SHALL BE SUBJECTED TO TESTING TO DETERMINE ITS RELIABILITY. WHERE INSTALLED UNDER PAVEMENT AREAS, TESTING SHALL BE DONE PRIOR TO THE PLACEMENT OF PAVEMENT, UNLESS APPROVED OTHERWISE BY JEA.
4. LOCATING WIRE SHALL TERMINATE WITHIN AN ACTIVE VALVE BOX (WITH A VALVE) OR A METER BOX (IF NO VALVE) AT 475' INTERVALS, SEE DETAIL PLATE W-44B, WIRE CONNECTIONS BELOW GROUND (OUTSIDE OF A BOX) SHALL BE AVOIDED.
5. REFER TO SECTION 350 FOR LOCATE WIRE SPECIFICATIONS.
6. " " INDICATES THAT THE WIRES ARE CONNECTED TOGETHER WITH A WATERPROOF CONNECTION. (SEE DETAIL W-44B)
7. " " INDICATES A WIRE PIG-TAIL (4' LONG)
8. FOR FIRE HYDRANT LOCATE WIRE REQUIREMENTS AND EXCLUSIONS, SEE PLATES W-12,13 AND 14.
9. AN "LW" CUT SHALL BE CARVED IN THE CONCRETE CURB AND PAINTED AT ALL LOCATE WIRE BOXES.
10. FOUR LANES OF TRAFFIC (HAVING TWO LANES OF TRAFFIC IN EACH DIRECTION) OR GREATER THE LOCATE WIRE AND VALVE BOX SHALL BE OFF-SET TO THE RIGHT-OF-WAY.

LOCATE WIRE CONSTRUCTION FOR WATER MAINS

JANUARY 2023 — PLATE W-44

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

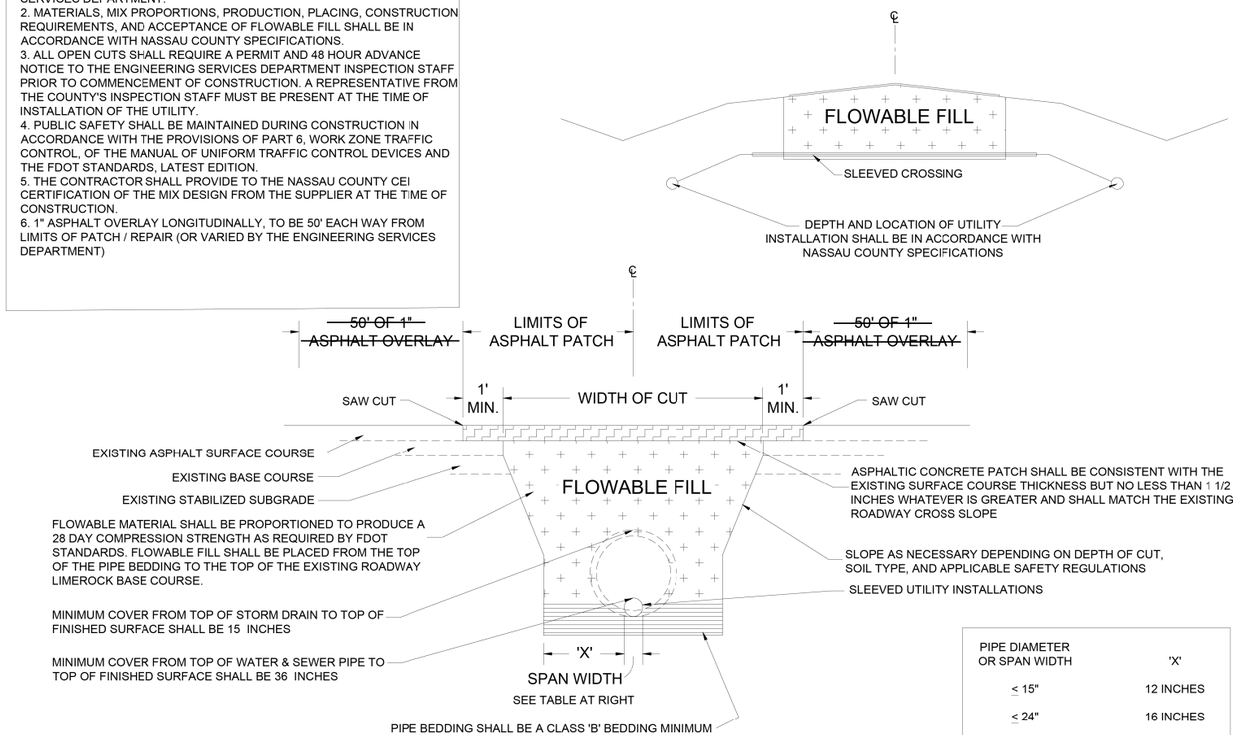
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

JEA CONSTRUCTION DETAILS

SHEET NO. U-9

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

NOTES:
1. OPEN ROAD CUTS ARE GENERALLY NOT AN ACCEPTABLE MEANS OF CONSTRUCTION UNLESS APPROVED IN ADVANCE BY THE ENGINEERING SERVICES DEPARTMENT.
2. MATERIALS, MIX PROPORTIONS, PRODUCTION, PLACING, CONSTRUCTION REQUIREMENTS, AND ACCEPTANCE OF FLOWABLE FILL SHALL BE IN ACCORDANCE WITH NASSAU COUNTY SPECIFICATIONS.
3. ALL OPEN CUTS SHALL REQUIRE A PERMIT AND 48 HOUR ADVANCE NOTICE TO THE ENGINEERING SERVICES DEPARTMENT INSPECTION STAFF PRIOR TO COMMENCEMENT OF CONSTRUCTION. A REPRESENTATIVE FROM THE COUNTY'S INSPECTION STAFF MUST BE PRESENT AT THE TIME OF INSTALLATION OF THE UTILITY.
4. PUBLIC SAFETY SHALL BE MAINTAINED DURING CONSTRUCTION IN ACCORDANCE WITH THE PROVISIONS OF PART 6, WORK ZONE TRAFFIC CONTROL, OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND THE FDOT STANDARDS, LATEST EDITION.
5. THE CONTRACTOR SHALL PROVIDE TO THE NASSAU COUNTY CEI CERTIFICATION OF THE MIX DESIGN FROM THE SUPPLIER AT THE TIME OF CONSTRUCTION.
6. 1" ASPHALT OVERLAY LONGITUDINALLY, TO BE 50' EACH WAY FROM LIMITS OF PATCH / REPAIR (OR VARIED BY THE ENGINEERING SERVICES DEPARTMENT)



PIPE DIAMETER OR SPAN WIDTH	'X'
≤ 15"	12 INCHES
≤ 24"	16 INCHES
≤ 30"	24 INCHES
> 30"	36 INCHES

ROADWAY AND DRAINAGE STANDARDS NASSAU COUNTY PUBLIC WORKS ENGINEERING SERVICES DEPARTMENT	REVISION DATES		OPEN ROAD CUTS / FLOWABLE FILL	DETAIL NO. 15 DWG: ADOPTED:

NOTE: PAVEMENT – TYPE SP ASPHALT CONCRETE, 1.5"

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

NASSAU COUNTY STANDARD DETAIL NO. 15

SHEET NO. U-10

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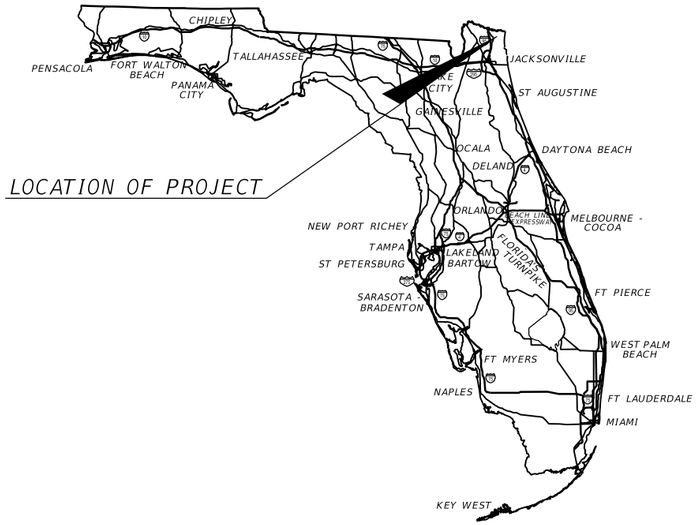
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NASSAU COUNTY ENGINEERING

CONTRACT PLANS

CHESTER ROAD
INTERSECTION IMPROVEMENTS

SIGNALIZATION PLANS



INDEX OF SIGNALIZATION PLANS

SHEET NO.	SHEET DESCRIPTION
T-1	KEY SHEET
T-2	SIGNATURE SHEET
T-3	TABULATION OF QUANTITIES
T-4	GENERAL NOTES
T-5 - T-8	SIGNALIZATION PLAN
T-9	INTERCONNECT PLAN
T-10 - T-12	PEDESTRIAN SIGNAL DETAIL
T-13	SPECIAL DETAILS
T-14	MAST ARM TABULATION SHEET
T-15 - T-16	GUIDE SIGN WORKSHEET
T-17 - T-18	ITS SPLICING DETAILS
T-19 - T-20	UTILITY PLAN
T-21 - T-22	REPORT OF CORE BORINGS
T-23	MAST ARM ASSEMBLIES DATA TABLE
T-24	RAILROAD JACK AND BORE PLAN VIEW
T-25	RAILROAD JACK AND BORE PROFILE VIEW

SIGNALIZATION PLANS
ENGINEER OF RECORD:

WAYNE T. PETRONE, P.E. NO.: 42860
PETERS AND YAFFEE, INC.
9822 TAPESTRY PARK CIRCLE, SUITE 205
JACKSONVILLE, FL 32246
(904) 265-0751
VENDOR NO.: F263166179-001

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
		T-1

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WAYNE T. PETRONE
LICENSE
No 42860
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

PETERS AND YAFFEE, INC.
9822 TAPESTRY PARK CIRCLE, SUITE 205
JACKSONVILLE, FL 32246
WAYNE T. PETRONE, P.E. 42860

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

SHEET NO.	SHEET DESCRIPTION
T-1	KEY SHEET
T-2	SIGNATURE SHEET
T-3	TABULATION OF QUANTITIES
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T-25	RAILROAD JACK AND BORE PROFILE VIEW

STEPHEN R. WEAVER
LICENSE
No 37389
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

UNIVERSAL ENGINEERING SCIENCES, INC.
5561 FLORIDA MINING BLVD. S.
JACKSONVILLE, FL 32257
STEPHEN R. WEAVER, P.E. 37389

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

SHEET NO.	SHEET DESCRIPTION
T-2	SIGNATURE SHEET
T-21 - T-22	REPORT OF CORE BORINGS

DUANE MERRELL
LICENSE
No 36843
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

POND & COMPANY
1200 RIVERPLACE BLVD. STE 600
JACKSONVILLE, FL 32207
DUANE MERRELL, P.E. NO. 36843

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

SHEET NO.	SHEET DESCRIPTION
T-2	SIGNATURE SHEET
T-23	MAST ARM ASSEMBLIES DATA TABLE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

PETERS AND YAFFEE, INC.
9822 TAPESTRY PARK CIRCLE, SUITE 205
JACKSONVILLE, FL 32246
WAYNE T. PETRONE, P.E. 42860

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CHESTER ROAD	NASSAU	

SIGNATURE SHEET

SHEET NO. T-2

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TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL	
			T-5		T-6		T-7		T-8		T-9									
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	68		314		10				704						1096		1096	
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	533		345		46				817						1741		1741	
630-2-20	CONDUIT, FURNISH & INSTALL, JACK AND BORE UNDER RAILROAD	LF			247												247		247	
632-7-1	SIGNAL CABLE- NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	PI	1		1												2		2	
632-7-2	SIGNAL CABLE - REPAIR/REPLACE/OTHER, FURNISH & INSTALL	LF					720										720		720	
632-7-6	SIGNAL CABLE, REMOVE- INTERSECTION	PI	1														1		1	
633-1-121	FIBER OPTIC CABLE, FURNISH & INSTALL, UNDERGROUND, 2-12 FIBERS	LF									25						25		25	
633-1-122	FIBER OPTIC CABLE, FURNISH & INSTALL, UNDERGROUND, 13-48 FIBERS	LF									2309						2309		2309	
633-1-420	FIBER OPTIC CABLE, RELOCATE, UNDERGROUND	LF									30						30		30	
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA									36						36		36	
633-2-32	FIBER OPTIC CONNECTION, INSTALL, TERMINATION	EA	24		12												36		36	
633-3-11	FIBER OPTIC CONNECTION HARDWARE, FURNISH & INSTALL, SPLICE ENCLOSURE	EA									2						2		2	
633-3-12	FIBER OPTIC CONNECTION HARDWARE, FURNISH & INSTALL, SPLICE TRAY	EA									3						3		3	
633-3-14	FIBER OPTIC CONNECTION HARDWARE, FURNISH & INSTALL, BUFFER TUBE FAN OUT KIT	EA	2		1												3		3	
633-3-16	FIBER OPTIC CONNECTION HARDWARE, FURNISH & INSTALL, PATCH PANEL-FIELD TERMINATED	EA	1		1												2		2	
635-2-11	PULL & SPLICE BOX, FURNISH & INSTALL, 13" x 24" COVER SIZE	EA	11		20												31		31	
635-2-12	PULL & SPLICE BOX, FURNISH & INSTALL, 24" x 36" COVER SIZE	EA									8						8		8	
635-2-30	PULL & SPLICE BOX, INSTALL	EA	1		1												2		2	
639-1-122	ELECTRICAL POWER SERVICE, FURNISH & INSTALL, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS	1		1												2		2	
639-1-620	ELECTRICAL POWER SERVICE, REMOVE UNDERGROUND	AS	1														1		1	
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF	60		227												287		287	
639-2-6	ELECTRICAL SERVICE WIRE, REMOVE	LF	70														70		70	
641-2-12	PRESTRESSED CONCRETE POLE, FURNISH & INSTALL, TYPE P-II SERVICE POLE	EA	1		1												2		2	
641-2-60	PRESTRESSED CONCRETE POLE, COMPLETE POLE REMOVAL- PEDESTAL/SERVICE POLE	EA	1														1		1	
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	EA	6		5		1										12		12	
646-1-60	ALUMINUM SIGNALS POLE, REMOVE	EA	2				1										3		3	
649-21-6	STEEL MAST ARM ASSEMBLY, FURNISH & INSTALL, SINGLE ARM 50'	EA			2												2		2	
649-21-10	STEEL MAST ARM ASSEMBLY, FURNISH & INSTALL, SINGLE ARM 60'	EA	1														1		1	
649-21-15	STEEL MAST ARM ASSEMBLY, FURNISH & INSTALL, SINGLE ARM 70'	EA	1														1		1	
649-21-18	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, DOUBLE ARM 70'-50'	EA			1												1		1	
649-21-25	STEEL MAST ARM ASSEMBLY, FURNISH & INSTALL, DOUBLE ARM 78'-60'	EA	1														1		1	
649-26-5	STEEL MAST ARM ASSEMBLY, REMOVE, DEEP FOUNDATION- BOLT ON ATTACHMENT	EA	4														4		4	
650-1-34	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL POLYCARBONATE, 3 SECTION, 1 WAY	AS	8		7				2								17		17	
650-1-36	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL POLYCARBONATE, 4 SECTION, 1 WAY	AS	4		1				3								8		8	
650-1-39	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL POLYCARBONATE, 5 SECTION CLUSTER, 1 WAY	AS							1								1		1	
650-1-60	VEHICULAR TRAFFIC SIGNAL, REMOVE-POLES TO REMAIN	AS							2								2		2	
653-1-11	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 1 WAY	AS	4		4				3								11		11	
653-1-12	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 2 WAYS	AS	2		1												3		3	
660-1-110	LOOP DETECTOR, INDUCTIVE, FURNISH & INSTALL, TYPE 10	EA	8		5		3										16		16	
660-2-106	LOOP ASSEMBLY, FURNISH & INSTALL, TYPE F	AS	7		11		4										22		22	
660-6-121	VEHICLE DETECTION SYSTEM-AVI, BLUETOOTH, FURNISH & INSTALL, CABINET EQUIPMENT	EA			1												1		1	
660-6-122	VEHICLE DETECTION SYSTEM-AVI, BLUETOOTH, FURNISH & INSTALL, ABOVE GROUND EQUIPMENT	EA			1												1		1	
665-1-11	PEDESTRIAN DETECTOR, FURNISH & INSTALL, STANDARD	EA	8		6		3										17		17	
670-5-111	TRAFFIC CONTROLLER ASSEMBLY, FURNISH & INSTALL, NEMA, 1 PREEMPTION	AS	1		1												2		2	
670-5-600	TRAFFIC CONTROLLER ASSEMBLY, REMOVE CONTROLLER WITH CABINET	AS	1														1		1	
682-1-133	ITS CCTV CAMERA, F&I, DOME ENCLOSURE - NON-PRESSURIZED, IP, HIGH DEFINITION	EA	1		1												2		2	
684-1-1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA	1		1												2		2	
685-1-13	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, LINE INTERACTIVE WITH CABINET	EA			1												1		1	
700-3-201	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, UP TO 12 SF	EA	5		4				3								12		12	
700-3-501	SIGN PANEL, RELOCATE, UP TO 12 SF	EA							1								1		1	
700-3-601	SIGN PANEL, REMOVE, UP TO 12 SF	EA							1								1		1	
700-5-21	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL OVERHEAD MOUNT, UP TO 12 SF	EA	2		2												4		4	
700-5-22	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, 12-18 SF	EA	2		2				2								6		6	
700-141-360	ENHANCED HIGHWAY SIGN ASSEMBLY, AC POWERED, F&I OVERHEAD MOUNT, BLANK OUT SIGN <12 SF	EA			1				1								2		2	
700-141-803	ENHANCED HIGHWAY SIGN ASSEMBLY, AC POWERED, RELOCATE - OVERHEAD MOUNT	EA							1								1		1	

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

PETERS AND YAFFEE, INC.
9822 TAPESTRY PARK CIRCLE, SUITE 205
JACKSONVILLE, FL 32246
WAYNE T. PETRONE, P.E. 42860

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CHESTER ROAD	NASSAU	

TABULATION OF QUANTITIES

SHEET NO. T-3

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GENERAL NOTES:

1. VERIFY COLOR CODES FOR BOTH SIGNAL AND COMMUNICATION CABLE WITH THE NASSAU COUNTY ENGINEERING DEPARTMENT BEFORE ORDERING.
2. NOTIFY THE TRAFFIC SIGNAL SUPERVISOR WITH NASSAU COUNTY ENGINEERING DEPARTMENT, AT (904) 530-6225, 48 HOURS IN ADVANCE OF BEGINNING SIGNAL WORK TO OBSERVE INSTALLATION IF DESIRED.
3. EXISTING SIGNAL EQUIPMENT TO BE REMOVED SHALL BE PLACED IN AREAS APPROVED BY THE CEI FOR PICK UP BY THE NASSAU COUNTY ENGINEERING DIVISION. CONTACT THE NASSAU COUNTY ENGINEERING DIVISION 48 HOURS IN ADVANCE FOR PICK UP. ANY SIGNAL EQUIPMENT NOT TAKEN BY THE NASSAU COUNTY ENGINEERING DIVISION SHALL BE DISPOSED OF BY THE CONTRACTOR.
4. SPARE CONDUIT RUNS FROM THE CONTROLLER BASE SHALL BE TERMINATED ONE EACH IN THE NEAREST LOOP LEAD-IN PULL BOX AND SIGNAL CABLE PULL BOX.
5. ALL TYPE F LOOPS SHALL BE MODIFIED TO 30 FEET IN LENGTH UNLESS INDICATED OTHERWISE IN THE PLANS AND SHALL EXTEND 4 FEET IN FRONT OF STOP BAR.
6. WHERE FOOTERS OR FOUNDATIONS ARE TO BE INSTALLED BY AUGERING OR DRILLING, SURVEY AND STAKE OR PAINT TO AN ACCURACY OF 0.1' PRIOR TO REQUESTING UTILITY LOCATES. STAKE OR PAINT THE CENTER OF EACH LOCATION AND CLEARLY LABEL WITH STATION, OFFSET, IDENTIFYING STRUCTURE NUMBER, AND DIAMETER OF EXCAVATION IN INCHES.
7. WHERE AUGERING OR DRILLING, EXCAVATE THE FIRST 4 FEET BY NON-MECHANICAL AND NON-DESTRUCTIVE MEANS.
8. WHEN BORING UNDER ROADWAY PAVEMENT, MAINTAIN A BORE DEPTH EQUAL TO TEN TIMES THE BORED DIAMETER OR GREATER AS MEASURED FROM THE TOP OF PAVEMENT TO THE TOP OF THE BORE, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
9. ALL LOOPS AND LEAD-INS SHALL BE INSTALLED PRIOR TO THE PLACEMENT OF THE FINAL ASPHALT COURSE UNLESS OTHERWISE APPROVED BY THE ENGINEER.
10. UNLESS SPECIFIED OTHERWISE IN THE PLANS. ALL PULL BOX COVERS TO BE FURNISHED AND INSTALLED SHALL BE NON-METALLIC.
11. ALL CABLES SHALL BE IN THEIR OWN INDIVIDUAL CONDUIT AND PULL BOXES, WITH THE EXCEPTION OF THE FOLLOWING:
    A. CCTV AND BLUETOOTH
    B. SIGNAL AND INTERNALLY ILLUMINATED SIGNS.
12. REFER TO ROADWAY PLANS FOR UTILITY CONTACT INFORMATION.

FIBER OPTIC CABLE NOTES:

1. AT THE EXISTING TRAFFIC CONTROLLER CABINET IN THE SOUTHWEST CORNER OF CHESTER ROAD AND DAVID HALLMAN PARKWAY, DISCONNECT EXISTING FIBER OPTIC CABLE (12 SM FIBER), PULL IT BACK TO THE EXISTING ADJACENT FIBER OPTIC PULL BOX. INSTALL EXISTING FIBER OPTIC CABLE IN NEW CONDUIT SERVING NEW CONTROLLER CABINET.
2. RUN 24 SM FIBER OPTIC CABLE BETWEEN FIBER OPTIC PULL BOXES AT THE CHESTER ROAD/DAVID HALLMAN PARKWAY AND CHESTER ROAD/PAGES DAIRY ROAD INTERSECTIONS.
3. AT PAGES DAIRY ROAD, RUN 12 SINGLE MODE FIBER OPTIC CABLE BETWEEN THE PROPOSED FIBER OPTIC PULL BOX AND THE PROPOSED TRAFFIC CONTROLLER CABINET.

PAY ITEM NOTES:

632-7-1:	AT THE CHESTER ROAD/PAGES DAIRY INTERSECTION, INCLUDES FURNISHING AND INSTALLING SIGNAL CABLE FROM THE CONTROLLER CABINET TO EACH MAST ARM POLE TO SERVICE BOTH PHASE 1 CONSTRUCTION AND THE FUTURE ULTIMATE DESIGN SIGNAL HEADS, PEDESTRIAN SIGNALS AND STREET NAME SIGNS. ONLY CONNECT SIGNAL CABLE TO CONTROLLER ASSOCIATED WITH PHASE 1 CONSTRUCTION.
633-1-122:	INCLUDES THE COST OF THE LOCATE WIRE, WHICH IS HOUSED IN THE SECOND CONDUIT RUN.
635-2-30:	PULL BOX TO BE FURNISHED BY FPL. CONTACT FPL AT (904) 225-3003 FOR PICKUP OF BOX.
649-21-18:	DURING PHASE 1 CONSTRUCTION. POLE 4: FURNISH AND INSTALL BOTH MAST ARMS #1 AND #2. DURING PHASE 1 CONSTRUCTION, FURNISH AND INSTALL ATTACHMENTS ON MAST ARM #2. FURNISH AND INSTALL DAMPING DEVICE AND STREET NAME SIGN ON MAST ARM #1 DURING PHASE 1 CONSTRUCTION. REMOVE DAMPING DEVICE DURING ULTIMATE CONSTRUCTION PHASE. THE COST OF THE DAMPING DEVICE SHALL BE INCLUDED IN PAY ITEM 649-21-18.
650-1-34: 650-1-36 650-1-39	RETROREFLECTIVE BACK PLATES SHALL BE INSTALLED ON ALL TRAFFIC SIGNAL HEADS.
660-6-121:	THE BLUETOOTH VEHICLE DETECTION USED SHALL BE POWERED OVER ETHERNET (PO6) CONFIGURED.
685-1-13:	CABINET MANUFACTURER SHALL HAVE THE BACKBOARD RAISED TO ACCOMMODATE BATTERY INSTALLATION.

NASSAU COUNTY PROPRIETARY PRODUCTS:

TRAFFICWARE GROUP, COMMANDER CONTROLLER, TS2 TYPE 2 SCOUT, LOC, V85 WITH ETHERNET
ECONOLITE TS2 T1 PLUG-N-GO SIZE 6/P5/65" TALL WIRED CABINET
ECONLITE VISION HD VIDEO CAMERA - TO BE CONFIRMED BY NASSAU COUNTY
EBERLE DESIGN, MALFUNCTION MANAGEMENT UNIT MMU2-16LEip
ITS EXPRESS, MANAGED FIELD ETHERNET SWITCH MODEL 8012-24
BOSCH SECURITY SYSTEMS, DOME CAMERA MODEL VG5-ITS1080P-30X6 SERIES OR LATER
ALPHA NOVUS FXM-1100 UNINTERRUPTIBLE POWER SERVICE
POLARA BULLDOG ENGINEERING MODEL BDL3 SERIES PIEZO PUSH BUTTON

FUTURE ROAD NOTES:

1. DO NOT MANUFACTURE OR INSTALL "FUTURE ROAD" STREET NAME SIGNS "E AND F". PROVIDED ONLY FOR STRUCTURAL DESIGN OF THE MAST ARM POLES.

RAILROAD NOTES:

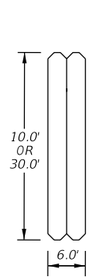
1. ALL MOVEMENTS OF EQUIPMENT WITHIN RAILWAY PROPERTY MUST BE COORDINATED WITH THE RAILWAY WATCHMAN.
2. DURING TRAIN MOVEMENTS THROUGH THE PROJECT LOCATION, VEHICLES, EQUIPMENT, AND PERSONNEL WILL NOT BE ALLOWED TO OPERATE.
3. ANY DAMAGE CAUSED BY THE ROADWAY WORK TO THE TRACK OR RAILWAY PROPERTY WILL REQUIRE REPAIR IMMEDIATELY UPON NOTIFICATION FROM THE RAILWAY OR THEIR DESIGNATED PERSONNEL OR CONTRACTOR. IF THE DAMAGE AFFECTS THE TRACK, TRACK STRUCTURE, RAILWAY FACILITIES, OR TRAIN OPERATIONS AS DETERMINED BY THE RAILWAY, THE REPAIRS WILL BE PERFORMED BY THE RAILWAY AT THE ROADWAY AUTHORITIES EXPENSE INCLUDING ALL ASSOCIATED COSTS OF DELAYS OF THE RAILWAY.
4. RAILWAY CONTACT INFORMATION:

FIRST COAST RAILROAD INC. (FCRD)
DANIEL ABNEY
FCRD - ROADMASTER
CELL - 912-215-0250
daniel.abney@gwrr.com

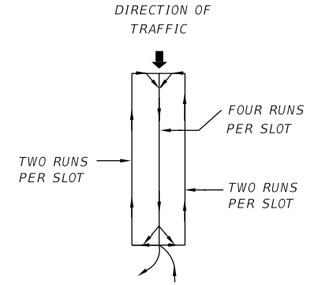
FPL ELECTRICAL POWER SERVICE NOTES:

1. CONTRACTOR TO CONTACT FLORIDA POWER AND LIGHT (FPL) FOR POWER SERVICE LOCATION.
2. CONTRACTOR TO CONTACT FLORIDA POWER AND LIGHT FOR POWER SERVICE CONNECTION DETAIL.

LOOP DETAILS



TYPE F



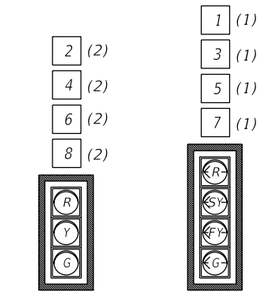
DETAIL OF LOOP WINDING
(QUADRAPOLE PRESENCE LOOP)

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REVISIONS				PETERS AND YAFFEE, INC. 9822 TAPESTRY PARK CIRCLE, SUITE 205 JACKSONVILLE, FL 32246 WAYNE T. PETRONE, P.E. 42860	NASSAU COUNTY ENGINEERING			GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					CHESTER ROAD	NASSAU			T-4

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

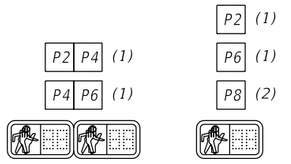
SIGNAL HEAD DETAILS



3-SECT., 1-WAY
8 AS
650-1-34

4-SECT., 1-WAY
4 AS
650-1-36

PEDESTRIAN HEAD DETAILS



PED. SIGNAL
COUNT-DOWN
1-SECT., 2-WAY
2 AS
653-1-12

PED. SIGNAL
COUNT-DOWN
1-SECT., 1-WAY
4 AS
653-1-11

STREET NAME AND SIGN DETAILS



(A)
FTP-85-13
30" x 36"
700-3-201 4 EA

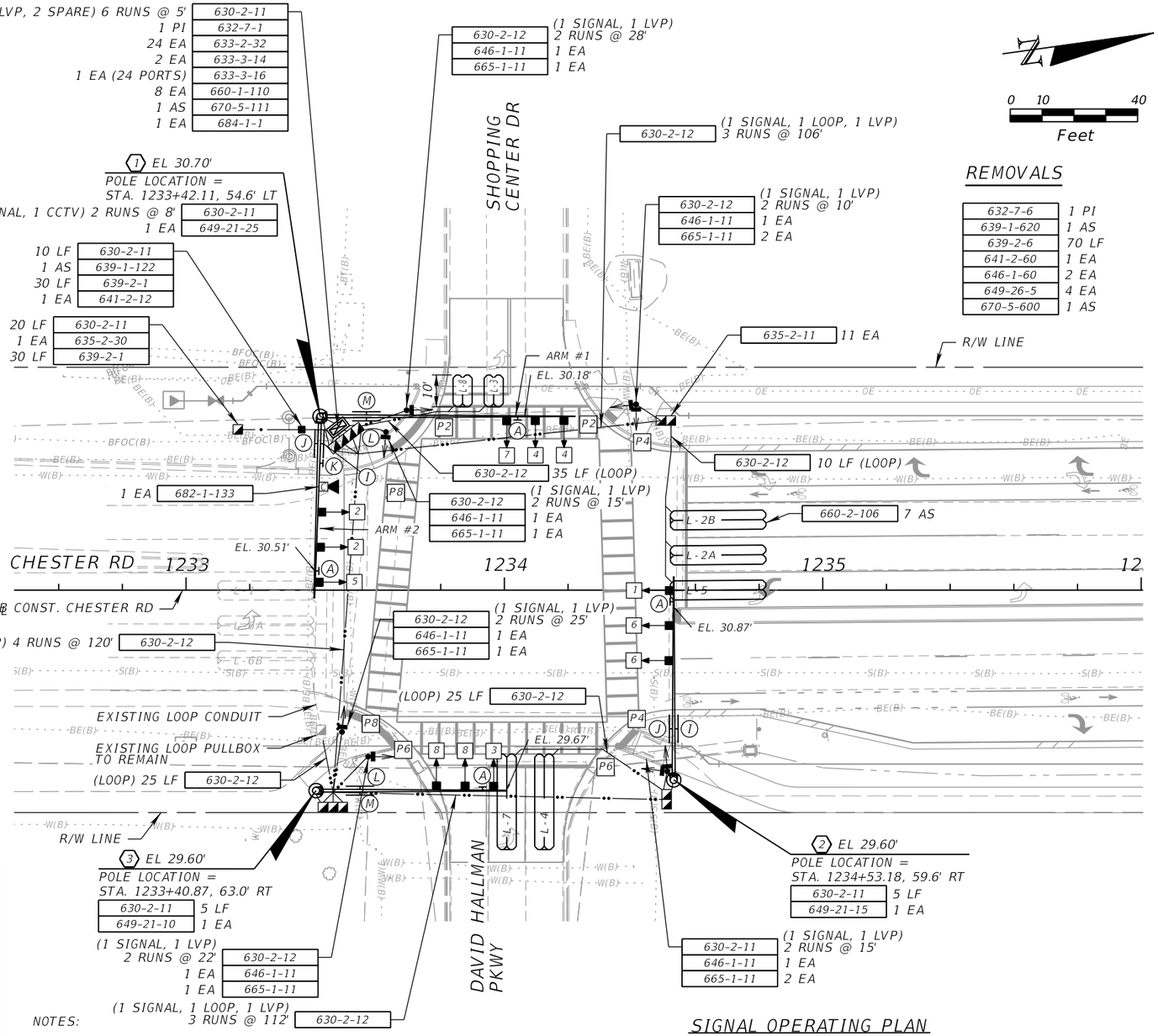


(K)
R3-5R
30" x 36"
700-3-201 1 EA

(L) Chester Road
(M) Chester Road
60" X 24"
DOUBLE-SIDED
700-5-21 2 EA

(J) David Hallman Parkway ← (BACK)
(I) David Hallman ← Parkway (FRONT)
108" X 24"
DOUBLE-SIDED
700-5-22 1 EA

(I) David Hallman Parkway → (BACK)
(J) David Hallman Parkway → (FRONT)
108" X 24"
DOUBLE-SIDED
700-5-22 1 EA



REMOVALS

632-7-6	1 PI
639-1-620	1 AS
639-2-6	70 LF
641-2-60	1 EA
646-1-60	2 EA
649-26-5	4 EA
670-5-600	1 AS

CONTROLLER TIMINGS

TIMING FUNCTION									
MOVEMENT NUMBER		1	2	3	4	5	6	7	8
TIMING FUNCTION	MINIMUM GREEN	4	18	4	6	4	18	4	6
	EXTENSION	3	3	3.5	3	3	3	3	3.5
	MAXIMUM GREEN 1	25	65	35	25	25	65	25	35
	MAXIMUM GREEN 2	25	80	25	30	25	80	25	30
	YELLOW CLEARANCE	4.0	4.0	3.4	3.4	4.0	4.0	3.4	3.4
	ALL RED	2.0	2.0	2.3	2.4	2.0	2.0	2.1	2.2
	PEDESTRIAN WALK		7		7		7		7
	PED. CLEARANCE		18		28		21		26
	RECALL		MIN				MIN		

TIMINGS ARE INITIAL AND MAY REQUIRE FIELD ADJUSTING AS DIRECTED BY THE PROJECT ENGINEER. INSTALL CONCURRENT TIMING OF INITIAL AND EXTENSION INTERVALS.

DETECTORS FOR LOOPS

LOOP	NO. OF LOOPS	DET. I.D.	CHANNEL NO.	DELAY TIME (SEC)
L-1	1	L1	1	5
L-2A	1	L2	1	0
L-2B	1		2	0
L-3	1	L3	1	5
L-4	1	L4	1	0
L-5	1	L5	1	5
L-6A	1	L6	1	0
L-6B	1		2	0
L-7	1	L7	1	5
L-8	1	L8	1	0

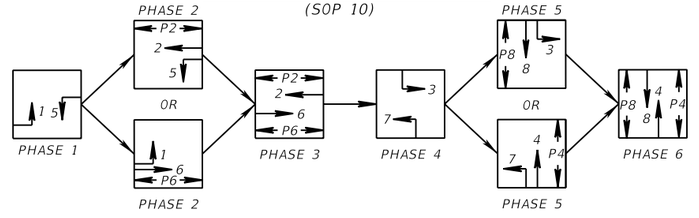
DELAY TIME IS INITIAL AND MAY REQUIRE FIELD ADJUSTING AS DIRECTED BY THE ENGINEER.

NOTES:

1. MAJOR STREET IS CHESTER ROAD, MOVEMENTS 1, 2, 5 & 6. MINOR STREETS ARE DAVID HALLMAN PARKWAY MOVEMENTS 4 & 7 AND SHOPPING CENTER DRIVE MOVEMENTS 3 & 8.
2. STREET NAME SIGNS TO BE FREE SWINGING INTERNALLY ILLUMINATED SIGNS AND NOT TO EXCEED 144 LBS OR 18 SQUARE FEET.
3. CONTROLLER TO BE FDOT SOP 10 CAPABLE, INITIALLY OPERATED AS SOP 10.
4. REFER TO PEDESTRIAN SIGNAL DETAIL SHEET FOR ADDITIONAL INFORMATION.
5. LVP = LOW VOLTAGE PED.

SIGNAL OPERATING PLAN

(SOP 10)



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

PETERS AND YAFFEE, INC.
9822 TAPESTRY PARK CIRCLE, SUITE 205
JACKSONVILLE, FL 32246
WAYNE T. PETRONE, P.E. 42860

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CHESTER ROAD	NASSAU	

SIGNALIZATION PLAN

SHEET NO. T-5

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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SIGNAL HEAD DETAILS

2 (2) / 6 (2) — 3-SECT., 1-WAY, 4 AS — 650-1-34

1 (1) — 4-SECT., 1-WAY, 1 AS — 650-1-36

3 (1) — 3-SECT., 1-WAY, 1 AS — 650-1-34

8 (2) — 3-SECT., 1-WAY, 2 AS — 650-1-34

PEDESTRIAN HEAD DETAILS

P2 (1) / P8 (3) — PED. SIGNAL COUNT-DOWN 1-SECT., 1-WAY, 4 AS — 653-1-11

P2 P8 (1) — PED. SIGNAL COUNT-DOWN 1-SECT., 2-WAY, 1 AS — 653-1-12

STREET NAME AND SIGN DETAILS

(2 SIGNAL, 1 LVP, 1 LOOP, 1 CCTV/BLUETOOTH, 1 RR, 1 SPARE)

Ⓒ Pages Dairy Road ← (BACK) / Ⓓ Pages Dairy Road (FRONT) — 90" X 24"

Ⓓ Pages Dairy Road → (BACK) / Ⓒ Pages Dairy Road → (FRONT) — 90" X 24"

Ⓛ Chester Road (BACK) / Ⓜ Chester Road (FRONT) — 60" X 24" DOUBLE-SIDED — 700-5-21 2 EA

Ⓗ R3-1 36" x 36" — 700-141-360 1 EA

SIGN Ⓗ SHALL BE DISPLAYED DURING RAILROAD PREEMPTION AND DURING TIMES PED MOVEMENT P8 IS ACTIVE

Ⓐ LEFT TURN YIELD ON FLASHING YELLOW ARROW — FTP-85-13 30" x 36" — 700-3-201 1 EA

Ⓘ ONLY — R3-5L 30" x 36" — 700-3-201 1 EA

Ⓙ ONLY — R3-5R 30" x 36" — 700-3-201 2 EA

DOUBLE-SIDED 700-5-22 2 EA

7 RUNS @ 102' 630-2-12 / 102 LF 639-2-1

RR R/W LINE

PAGES DAIRY RD

248

630-2-11 8 LF; 635-2-30 1 EA; 639-2-1 25 LF

630-2-11 7 LF; 639-1-122 1 AS; 639-2-1 25 LF; 641-2-12 1 EA

R/W LINE
(3 SIGNAL, 1 LVP, 2 LOOP, 1 FIBER, 1 RR, 1 CCTV/BLUETOOTH, 1 SPARE)

630-2-11 10 RUNS @ 8'; 632-7-1 1 PI; 633-2-32 12 EA; 633-3-14 1 EA; 633-3-16 1 EA (12 PORTS); 639-2-1 25 LF (RR); 660-1-110 5 EA; 660-6-121 1 EA; 670-5-111 1 AS; 684-1-1 1 EA; 685-1-13 1 EA

PROPOSED R/W LINE

630-2-11 18 LF (LOOP)

(1 SIGNAL, 1 LVP)
630-2-12 2 RUNS @ 20'; 646-1-11 1 EA; 665-1-11 2 EA

EXIST. R/W LINE

EL 27.25' (4) POLE LOCATION = STA. 1249+12.06, 65.0' LT
(1 SIGNAL, 1 BLUETOOTH/2 RUNS @ 30' CCTV) 630-2-11; 1 EA 649-21-18; 1 EA 660-6-122

PROPOSED RAILROAD CONTROLLER

35 LF 630-2-11; 50 LF 639-2-1

(1 SIGNAL, 1 LOOP) 2 RUNS @ 40' 630-2-11

EL. 26.32'

EL. 28.33'

ARM #1

EL. 28.18'

RR R/W LINE

R/W LINE

630-2-11 14 LF (LOOP)

682-1-133 1 EA

ARM #2

EL. 28.23'

CHESTER RD

1247 1248 1249 186 187

11 AS 660-2-106

L-1B L-60B L-61B L-1A L-60A L-61A L-20 L-21

℄ CONST. CHESTER RD

(LOOP) 10 LF 630-2-11

20 EA 635-2-11

(1 SIGNAL, 1 LVP)
630-2-11 2 RUNS @ 27'; 646-1-11 1 EA; 665-1-11 1 EA

EL. 28.40'

630-2-12 8 RUNS @ 133'

(2 SIGNAL, 1 LVP, 1 FIBER, 1 LOCATE, 1 LOOP, 2 SPARES)

EL. 28.57'

EL. 27.42'

(1 LOOP, 1 FIBER, 1 LOCATE, 1 SPARE)
4 RUNS @ 247' 630-2-20

EXISTING RAILROAD CONTROLLER TO BE REMOVED BY RAILROAD

EL. 27.75'

(LOOP) 40 LF 630-2-11

EL 27.90' (6) POLE LOCATION = STA. 1248+70.76, 50.8' RT
15 LF 630-2-11; 1 EA 649-21-6

RR R/W LINE

(5) EL 28.00' POLE LOCATION = STA. 185+39.88, 44.0' RT
630-2-11 12 LF; 649-21-6 1 EA

(1 SIGNAL, 1 LVP)
630-2-11 2 RUNS @ 4'; 646-1-11 1 EA; 665-1-11 1 EA

630-2-12 (1 SIGNAL, 1 LVP, 1 LOOP, 1 SPARE) 4 RUNS @ 90'

(1 SIGNAL, 1 LVP)
1P: 630-2-11 2 RUNS @ 6'; 646-1-11 1 EA; 665-1-11 1 EA

(1 SIGNAL, 1 LVP)
2P: 630-2-11 2 RUNS @ 30'; 646-1-11 1 EA; 665-1-11 1 EA

0 10 40 Feet

NOTES:

1. MAJOR STREET IS CHESTER ROAD, MOVEMENTS 1, 2 & 6. MINOR STREET IS PAGES DAIRY ROAD, MOVEMENTS 3 & 8.
2. STREET NAME SIGNS TO BE FREE SWINGING INTERNALLY ILLUMINATED SIGNS AND NOT TO EXCEED 144 LBS OR 18 SQUARE FEET.
3. CONTROLLER TO BE FDOT SOP 10 CAPABLE, INITIALLY OPERATED AS SOP 16 MODIFIED.
4. REFER TO PEDESTRIAN SIGNAL DETAIL SHEET FOR ADDITIONAL INFORMATION.
5. LVP = LOW VOLTAGE PED.

CONTROLLER TIMINGS

TIMING FUNCTION	MOVEMENT NUMBER	1	2	3/8	4	5	6	7	
TIMING FUNCTION	MINIMUM GREEN	4	18	6			18		
	EXTENSION	3	3	3			3		
	MAXIMUM GREEN 1	25	65	35			65		
	MAXIMUM GREEN 2	25	80	30			80		
	YELLOW CLEARANCE	4.1	4.1	4.8			4.1		
	ALL RED	2.0	2.0	2.0			2.0		
	PEDESTRIAN WALK		7		7				
	PED. CLEARANCE		31		26				
	RECALL		MIN				MIN		

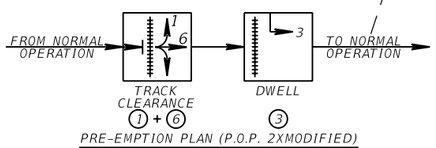
TIMINGS ARE INITIAL AND MAY REQUIRE FIELD ADJUSTING AS DIRECTED BY THE ENGINEER. INSTALL CONCURRENT TIMING OF INITIAL AND EXTENSION INTERVALS.

DETECTORS FOR LOOPS

LOOP	NO. OF LOOPS	DET. I.D.	CHANNEL NO.	DELAY TIME (SEC)
L-1A,1B	2	L1	1	5
L-21	1	L2	1	0
L-20	1		2	0
L-3	1	L3	1	0
L-60A,L-60B	2	L6	1	0
L-61A,L-61B	2		2	0
L-8RI	1	L8	1	10
L-8RO	1		2	10

DELAY TIME IS INITIAL AND MAY REQUIRE FIELD ADJUSTING AS DIRECTED BY THE ENGINEER.

RAIL ROAD PREEMPTION



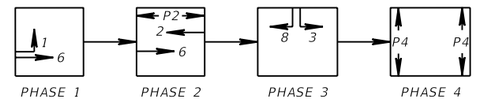
PRE-EMPTION PLAN (P.O.P. 2XMODIFIED)

PREEMPTION

Trk Clr	Grn	Amb	Red	Cycle	Exit
1,6	3	4.8	2.0	3	2,6

SIGNAL OPERATING PLAN

(SOP 16 MODIFIED)



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

PETERS AND YAFFEE, INC.
9822 TAPESTRY PARK CIRCLE, SUITE 205
JACKSONVILLE, FL 32246
WAYNE T. PETRONE, P.E. 42860

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CHESTER ROAD	NASSAU	

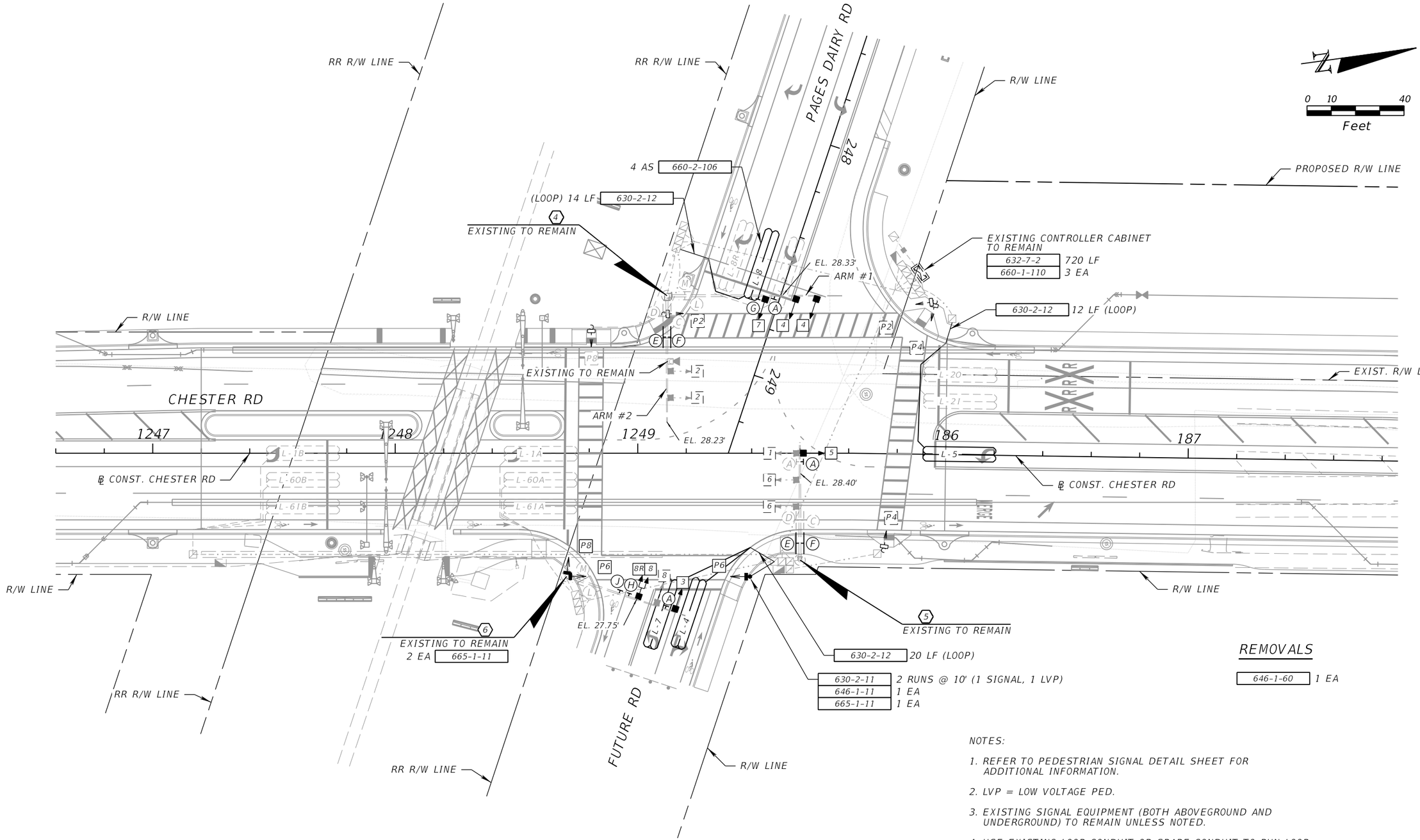
SIGNALIZATION PLAN
PHASE I CONSTRUCTION

SHEET NO. T-6

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jcatagan 12/13/2023 1:28:50 PM F:\2016\16-026 Nassau County Pages Dairy Chester Road Intersection Improvements - CWI\FPID# or PY-Job#\signals\plansg02.dgn

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REMOVALS

646-1-60 1 EA

NOTES:

1. REFER TO PEDESTRIAN SIGNAL DETAIL SHEET FOR ADDITIONAL INFORMATION.
2. LVP = LOW VOLTAGE PED.
3. EXISTING SIGNAL EQUIPMENT (BOTH ABOVEGROUND AND UNDERGROUND) TO REMAIN UNLESS NOTED.
4. USE EXISTING LOOP CONDUIT OR SPARE CONDUIT TO RUN LOOP LEAD-IN CABLE TO THE CONTROLLER CABINET.
5. USE EXISTING SIGNAL CONDUIT OR SPARE CONDUIT TO RUN PEDESTRIAN SIGNAL CABLE FROM CONTROLLER CABINET TO PED POLE P6.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

PETERS AND YAFFEE, INC.
9822 TAPESTRY PARK CIRCLE, SUITE 205
JACKSONVILLE, FL 32246
WAYNE T. PETRONE, P.E. 42860

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CHESTER ROAD	NASSAU	

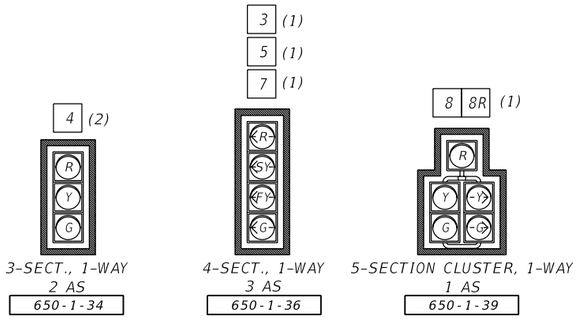
SIGNALIZATION PLAN ULTIMATE DESIGN

SHEET NO. T-7

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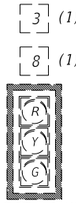
SIGNAL HEAD DETAILS



3-SECT., 1-WAY
2 AS
650-1-34

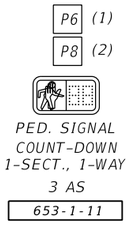
4-SECT., 1-WAY
3 AS
650-1-36

5-SECTION CLUSTER, 1-WAY
1 AS
650-1-39

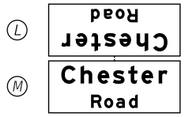


3-SECT., 1-WAY
650-1-60 2 AS
EXISTING
TO BE REMOVED
ON POLE 6

PEDESTRIAN HEAD DETAILS

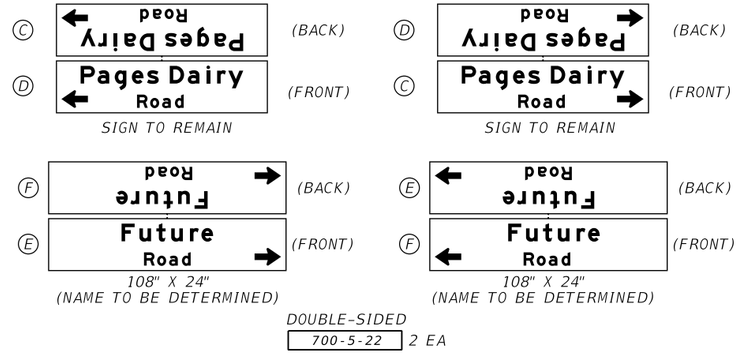


PED. SIGNAL
COUNT-DOWN
1-SECT., 1-WAY
3 AS
653-1-11



SIGN TO REMAIN

STREET NAME AND SIGN DETAILS



DOUBLE-SIDED
700-5-22 2 EA



A
FTP-85-13
30" x 36"
700-3-201 3 EA



G
R3-2
24" x 24"
700-141-360 1 EA



H
R3-1
24" x 24"
700-141-803 1 EA



I
R3-5L
30" x 36"
700-3-601 1 EA



J
R3-5R
30" x 36"
700-3-501 1 EA

SIGNS G AND H SHALL BE DISPLAYED
DURING RAILROAD PREEMPTION

NOTES:

1. MAJOR STREET IS CHESTER ROAD, MOVEMENTS 1, 2, 5 & 6. MINOR STREETS ARE PAGES DAIRY ROAD, MOVEMENTS 3 & 8 AND FUTURE ROAD, MOVEMENTS 4 & 7.
2. STREET NAME SIGNS TO BE FREE SWINGING INTERNALLY ILLUMINATED SIGNS AND NOT TO EXCEED 144 LBS OR 18 SQUARE FEET.
3. CONTROLLER TO BE FDOT SOP 10 CAPABLE, INITIALLY OPERATED AS SOP 10.
4. INHIBIT MOVEMENT 8R WHEN P8 ACTIVATED.
5. EXISTING SIGNAL HEADS TO REMAIN UNLESS NOTED.

CONTROLLER TIMINGS

TIMING FUNCTION									
MOVEMENT NUMBER		1	2	3	4	5	6	7	8
TIMING FUNCTION	MINIMUM GREEN	4	18	4	6	4	18	4	6
	EXTENSION	3	3	3	3	3	3	3	3
	MAXIMUM GREEN 1	25	65	25	35	25	65	25	35
	MAXIMUM GREEN 2	25	80	25	30	25	80	25	30
	YELLOW CLEARANCE	4.1	4.1	4.8	4.8	4.1	4.1	4.8	4.8
	ALL RED	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	PEDESTRIAN WALK		7		7		7		7
	PED. CLEARANCE		26		29		19		24
	RECALL		MIN				MIN		

TIMINGS ARE INITIAL AND MAY REQUIRE FIELD ADJUSTING AS DIRECTED BY THE ENGINEER. INSTALL CONCURRENT TIMING OF INITIAL AND EXTENSION INTERVALS.

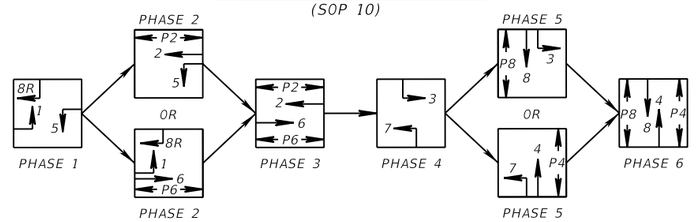
DETECTORS FOR LOOPS

LOOP	NO. OF EXISTING LOOPS	NO. OF NEW LOOPS	EXISTING DET. I.D.	NEW DET. I.D.	CHANNEL NO.	DELAY TIME (SEC)
L-1A,1B	2		L1		1	5
L-21	1		L2		1	0
L-2O	1				2	0
L-3	1		L3		1	5
L-4		1		L4	1	0
L-5		1		L5	1	5
L-60A,L-60B	2		L6		1	0
L-61A,L-61B	2				2	0
L-7		1		L7	1	5
L-8R	1		L8		1	10
L-8		1			2	0

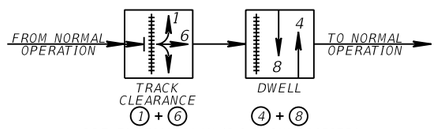
DELAY TIME IS INITIAL AND MAY REQUIRE FIELD ADJUSTING AS DIRECTED BY THE ENGINEER.

SIGNAL OPERATING PLAN

(SOP 10)



RAIL ROAD PREEMPTION



PRE-EMPTION PLAN (P.O.P. 2XMODIFIED)

PREEMPTION

Trk CLr	Grn	Amb	Red	Cycle	Exit
1,6	4,8	4.8	2.0	4,8	2,6

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

PETERS AND YAFFEE, INC.
9822 TAPESTRY PARK CIRCLE, SUITE 205
JACKSONVILLE, FL 32246
WAYNE T. PETRONE, P.E. 42860

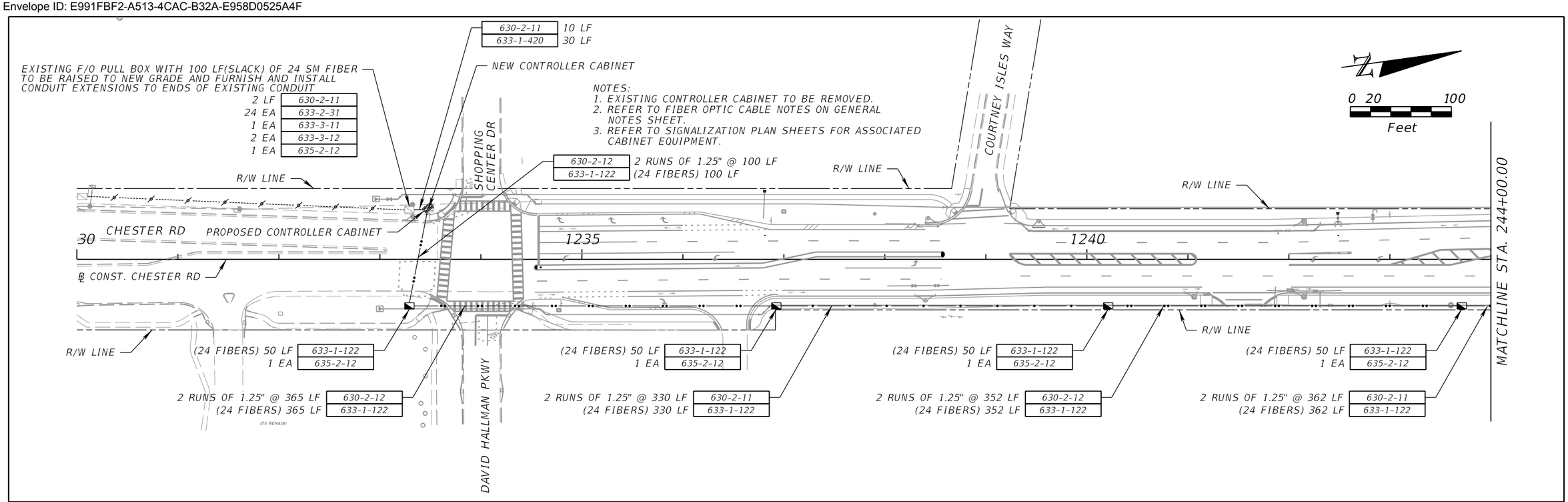
NASSAU COUNTY ENGINEERING

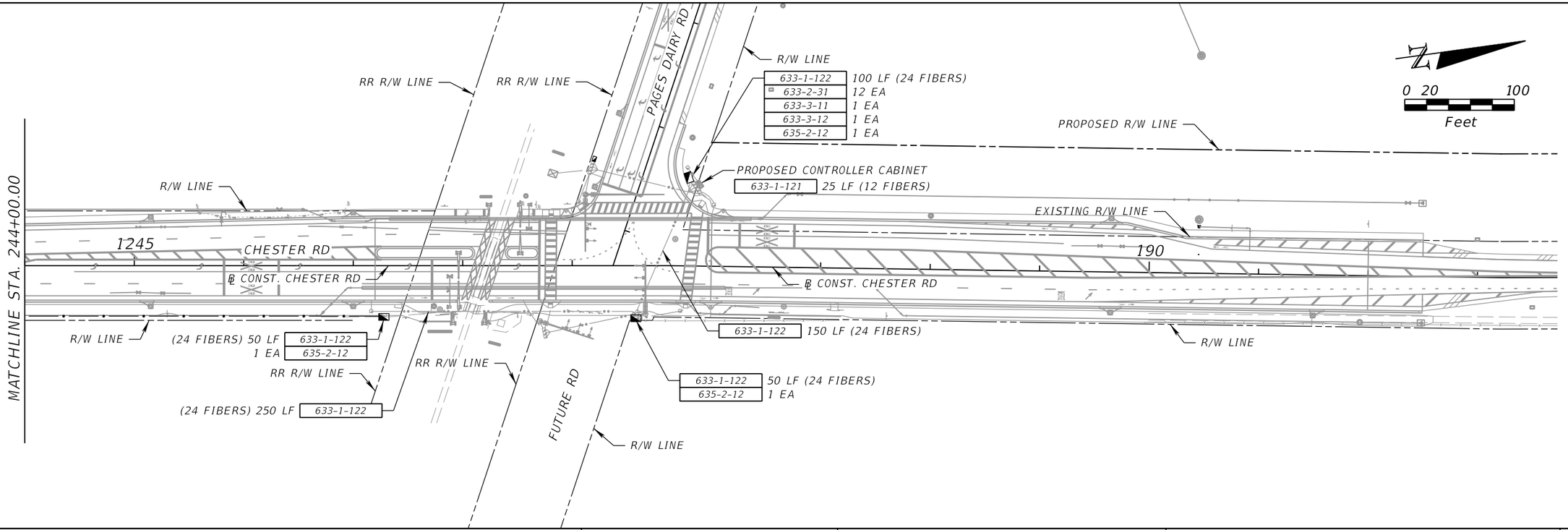
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CHESTER ROAD	NASSAU	

SIGNALIZATION PLAN
ULTIMATE DESIGN

SHEET NO. T-8

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F





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JACKSONVILLE, FL 32246
WAYNE T. PETRONE, P.E. 42860

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CHESTER ROAD	NASSAU	

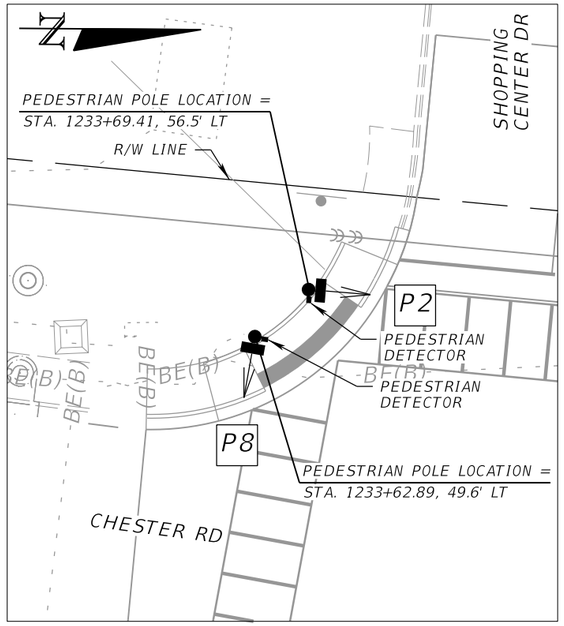
INTERCONNECT PLAN

SHEET NO. T-9

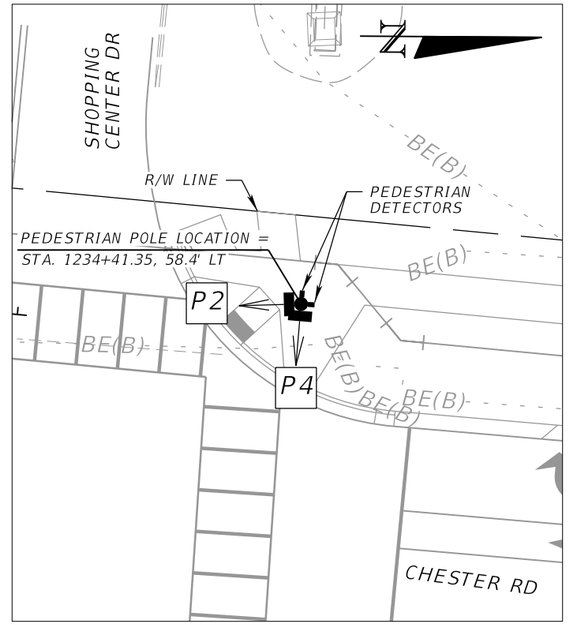
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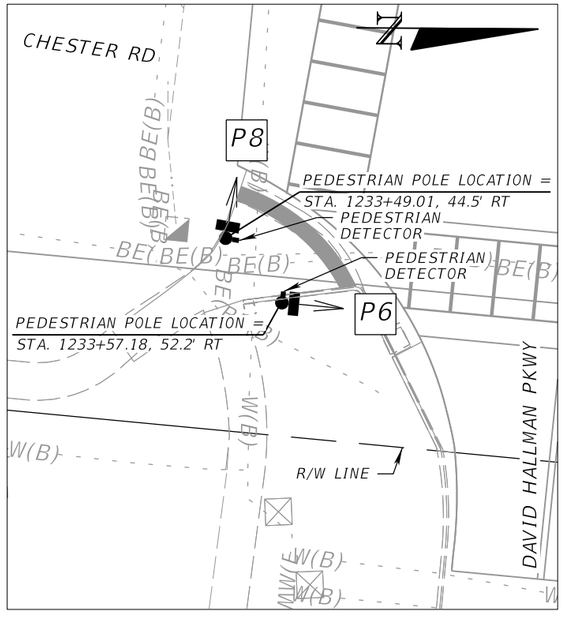
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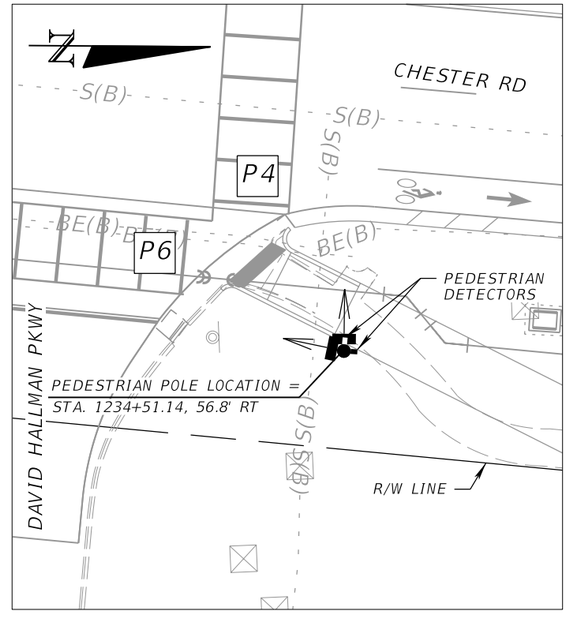
SOUTHWEST QUADRANT AT
CHESTER RD AND SHOPPING CENTER DR



NORTHWEST QUADRANT AT
CHESTER RD AND SHOPPING CENTER DR



SOUTHEAST QUADRANT AT
CHESTER RD AND DAVID HALLMAN PKWY



NORTHEAST QUADRANT AT
CHESTER RD AND DAVID HALLMAN PKWY

0 5 20
Feet

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

PETERS AND YAFFEE, INC.
9822 TAPESTRY PARK CIRCLE, SUITE 205
JACKSONVILLE, FL 32246
WAYNE T. PETRONE, P.E. 42860

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CHESTER ROAD	NASSAU	

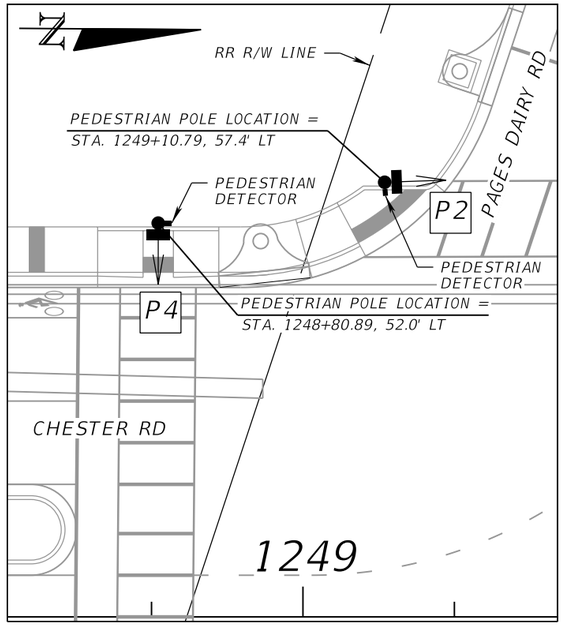
PEDESTRIAN SIGNAL DETAIL

SHEET NO.
T-10

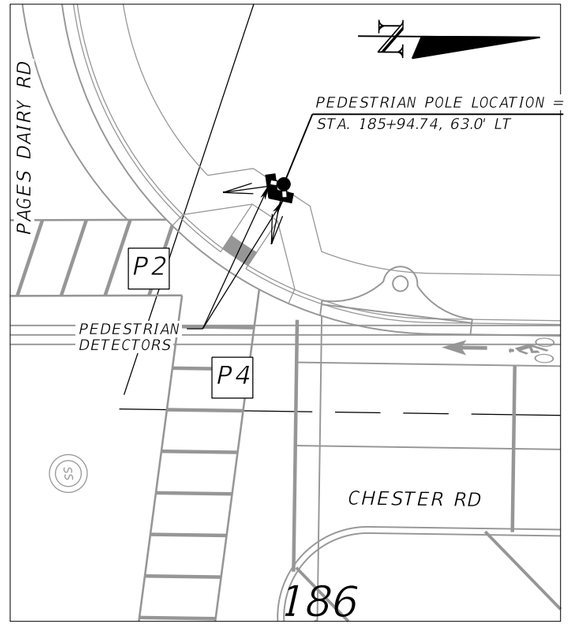
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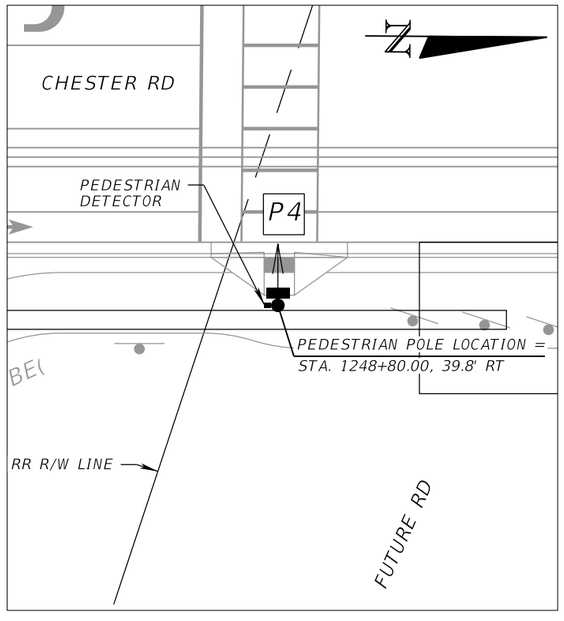
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SOUTHWEST QUADRANT AT
CHESTER RD AND PAGES DAIRY RD

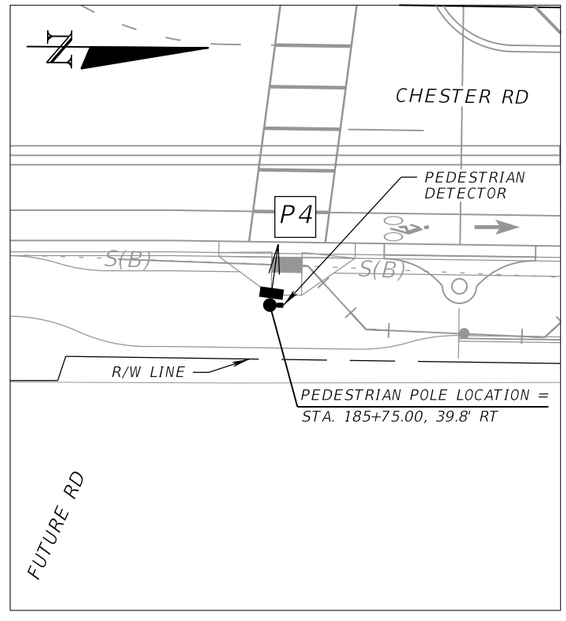


NORTHWEST QUADRANT AT
CHESTER RD AND PAGES DAIRY RD



SOUTHEAST QUADRANT AT
CHESTER RD AND FUTURE RD

0 5 20
Feet



NORTHEAST QUADRANT AT
CHESTER RD AND FUTURE RD

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JACKSONVILLE, FL 32246
WAYNE T. PETRONE, P.E. 42860

NASSAU COUNTY ENGINEERING

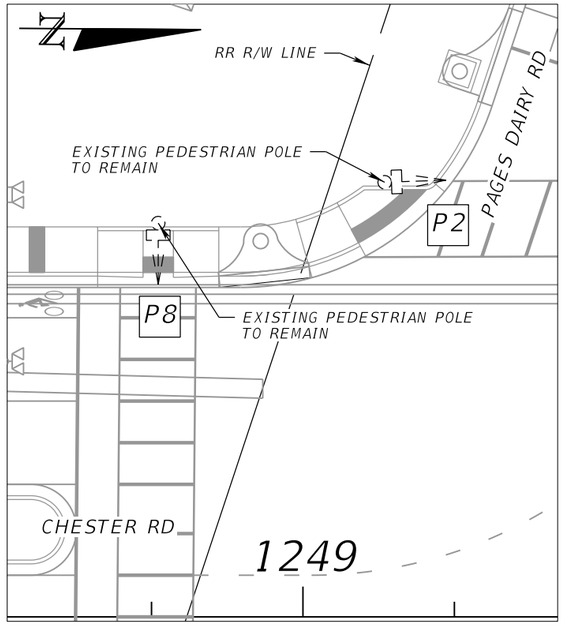
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CHESTER ROAD	NASSAU	

PEDESTRIAN SIGNAL DETAIL
PHASE I CONSTRUCTION

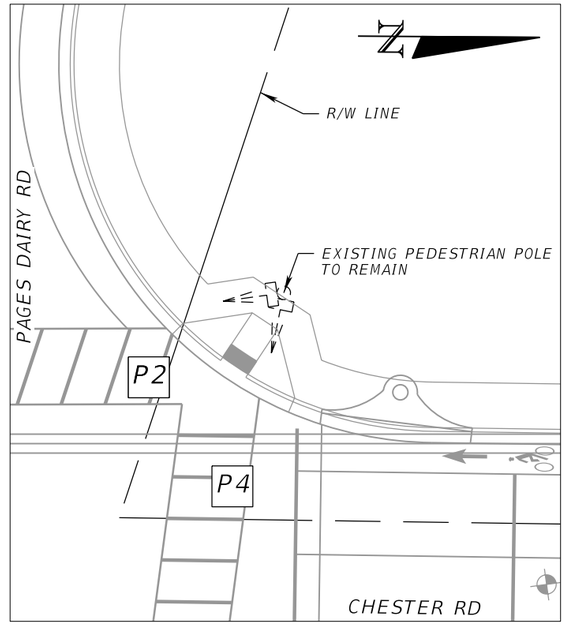
SHEET NO. T-11

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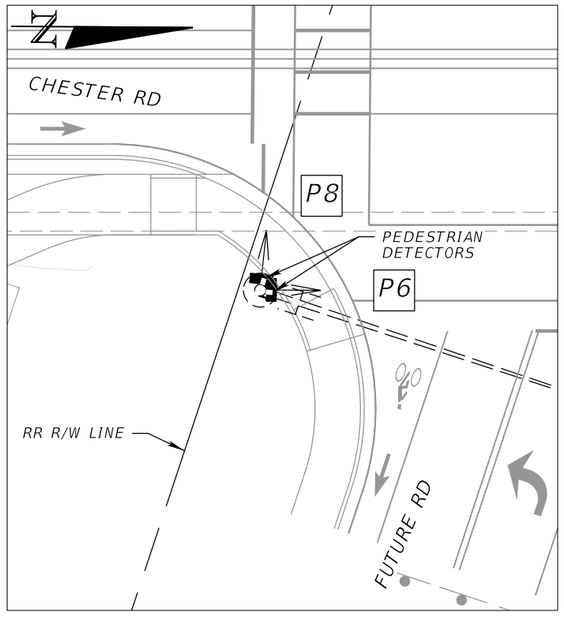
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SOUTHWEST QUADRANT AT
CHESTER RD AND PAGES DAIRY RD

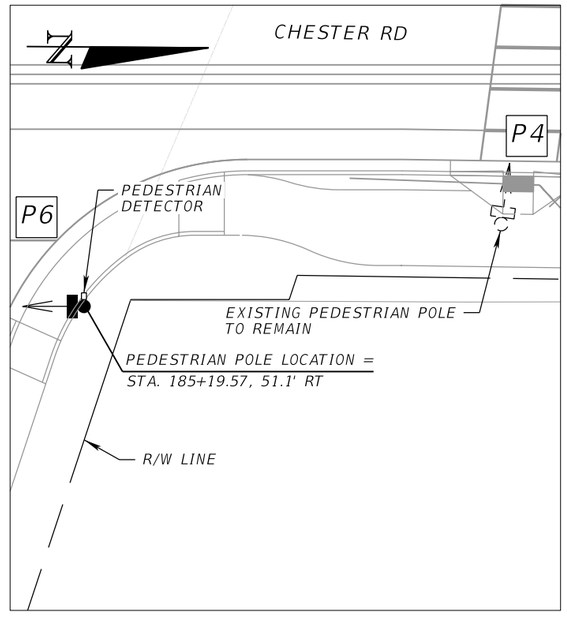


NORTHWEST QUADRANT AT
CHESTER RD AND PAGES DAIRY RD



SOUTHEAST QUADRANT AT
CHESTER RD AND FUTURE RD

0 5 20
Feet



NORTHEAST QUADRANT AT
CHESTER RD AND FUTURE RD

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JACKSONVILLE, FL 32246
WAYNE T. PETRONE, P.E. 42860

NASSAU COUNTY ENGINEERING

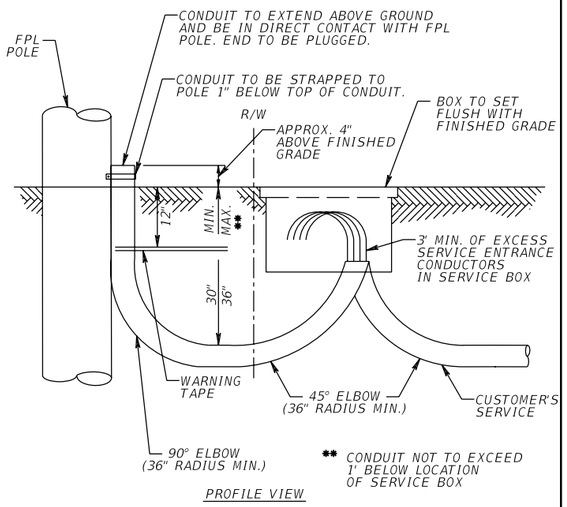
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CHESTER ROAD	NASSAU	

PEDSTRIAN SIGNAL DETAIL ULTIMATE DESIGN

SHEET NO. T-12

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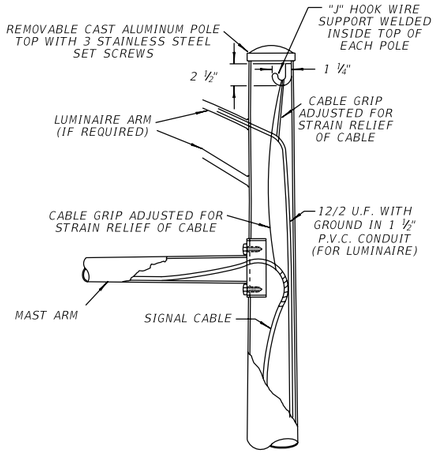
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PROFILE VIEW

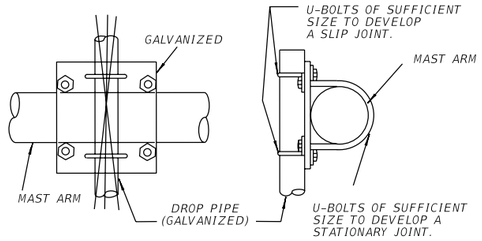
POWER SERVICE DETAIL

N.T.S.



TYPICAL CABLE STRAIN RELIEF DETAIL

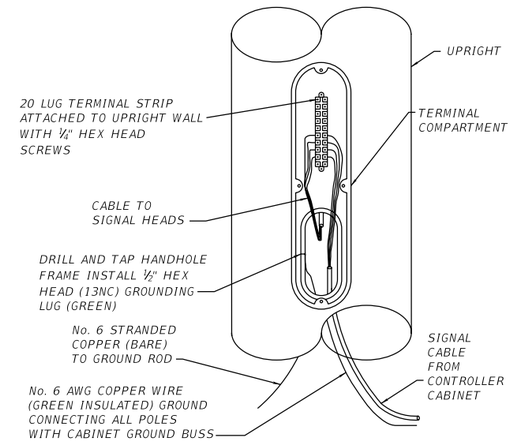
N.T.S.



FRONT VIEW SIDE VIEW

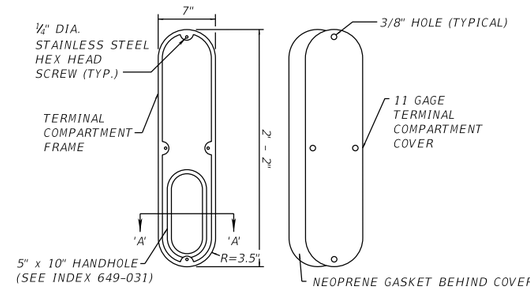
SIGN ARM BRACKET

N.T.S.



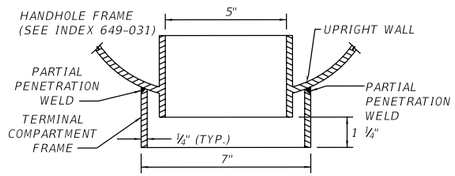
TERMINAL COMPARTMENT WIRING DETAILS

N.T.S.



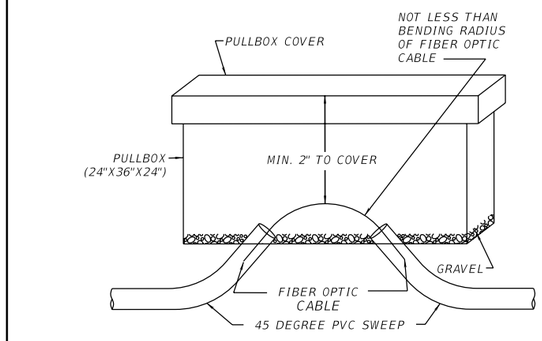
TERMINAL COMPARTMENT FRAME AND COVER DETAIL

N.T.S.



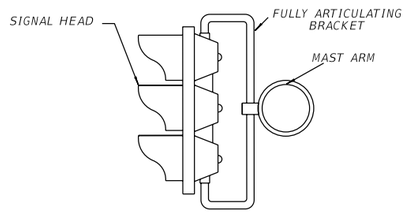
SECTION "A-A"

N.T.S.



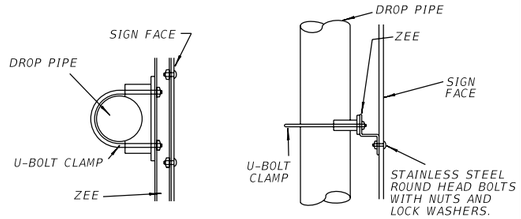
STANDARD INTERCONNECT CONDUIT ALIGNMENT DETAIL

N.T.S.



SIGNAL HEAD BRACKET ATTACHMENT DETAIL

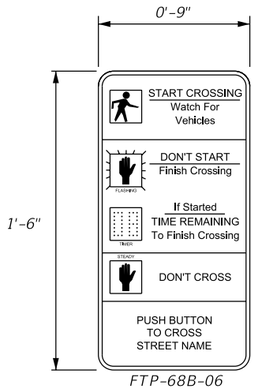
N.T.S.



TOP VIEW SIDE VIEW

DROP PIPE SIGN DETAIL

N.T.S.



FTP-68B-06

PEDESTRIAN SIGN DETAIL

NTS

STREET NAMES
CHESTER RD (8)
DAVID HALLMAN PKWY (2)
SHOPPING CENTER DR (2)
PAGES DAIRY RD (2)

ULTIMATE DESIGN
FUTURE RD (TBD) (2)

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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9822 TAPESTRY PARK CIRCLE, SUITE 205
JACKSONVILLE, FL 32246
WAYNE T. PETRONE, P.E. 42860

NASSAU COUNTY ENGINEERING

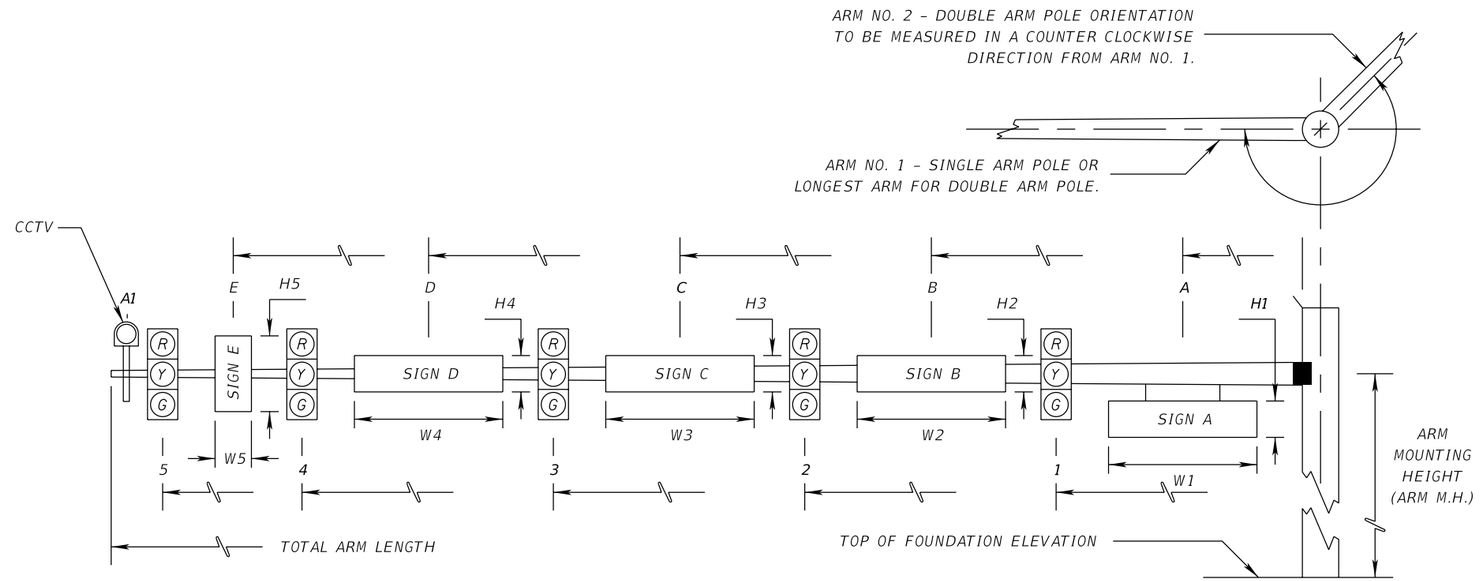
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CHESTER ROAD	NASSAU	

SPECIAL DETAILS

SHEET NO. T-13

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SPECIAL INSTRUCTIONS					
ID NO.	PED. BUTTON		PED. SIGNALS		HANDHOLE LOCATION



* DENOTES NUMBER OF SECTIONS IN SIGNAL HEAD ASSEMBLY

ID NO.	SHEET NO.	LOCATION BY STA.	TOP OF FOUNDATION ELEVATION	RDWY ARM NO.	CROWN ELEV.	SIGNAL DATA: SIGNAL V/H	BACK PLATES Y/N	PED. SIGNAL Y/N	DISTANCE FROM POLE: 1	*	2	*	3	*	4	*	5	*	TOTAL ARM LENGTH	ARM M.H.	∠ BETWEEN DUAL ARMS 90/270	SIGN DATA: DISTANCE FROM POLE / HEIGHT AND WIDTH OF SIGN: A	H1	W1	B	H2	W2	C	H3	W3	D	H4	W4	E	H5	W5	DISTANCE FROM POLE: CCTV A1	BLUE-TOOTH
1	T-5	1233+42.11, 54.6' LT	31.20'	1	30.18'	V	Y	N	56.5'	4	65.5'	3	74.5'	3					78'	20.0	270	12.5'	2.0'	5.0'	60.0'	3.0'	2.5'														
				2	30.51'	V	Y	N			28.0'	3	39.0'	3	50.0'	4			55'	20.0		6.5'	2.0'	9.0'	12.6'	3.0'	2.5'				46.5'	3.0'	2.5'				20.0'	
2	T-5	1234+53.18, 59.6' RT	30.10'	1	30.87'	V	Y	N	35.7'	3	46.7'	3	57.7'	4					62'	21.0		14.2'	2.0'	9.0'				54.2'	3.0'	2.5'								
3	T-5	1233+40.87, 63.0' RT	30.10'	1	29.67'	V	Y	N	36.0'	3	45.0'	3	54.0'	4					58'	20.0		12.0'	2.0'	5.0'				50.0'	3.0'	2.5'								
4	T-7	1249+12.06, 65.0' LT	28.68'	1	28.33'														70'	20.5	270	5.5'	2.0'	5.0'														
				2	28.23'	V	Y	N			29.0'	3	40.0'	3					50'	20.5		5.0'	2.0'	7.5'												25.0'	0'
5	T-7	185+39.88, 44.0' RT	29.07'	1	28.40'	V	Y	N			20.6'	3	31.6'	3	42.6'	4			47'	20.5		5.5'	2.0'	7.5'				39.1'	3.0'	2.5'								
6	T-7	1248+70.76, 50.8' RT	28.40'	1	27.75'	V	Y	N			23.3'	3	34.3'	3	45.3'	3			50'	20.5		4.0'	2.0'	5.0'	20.0'	3.0'	2.5'	26.9'	3.0'	3.0'	30.7'	3.0'	2.5'	39.8'	3.0'	2.5'		
ULTIMATE DESIGN																																							
4	T-7	1249+12.06, 65.0' LT	28.68'	1	28.33'	V	Y	N			39.1'	4	51.8'	3	60.2'	3			70'	20.5	270	5.5'	2.0'	5.0'	36.1'	2.0'	2.0'	42.6'	3.0'	2.5'								
				2	28.23'	V	Y	N	22.5'	5**	29.0'	3	40.0'	3					50'	20.5		5.0'	2.0'	7.5'	15.0'	2.0'	9.0'									25.0'	0'
5	T-7	185+39.88, 44.0' RT	29.07'	1	28.40'	V	Y	N			20.6'	3	31.6'	3	42.6'	4	42.6'	4	47'	20.5		5.5'	2.0'	9.0'	15.0'	2.0'	7.5'				39.1'	3.0'	2.5'	39.1'	3.0'	2.5'		
6	T-7	1248+70.76, 50.8' RT	28.40'	1	27.75'	V	Y	N			29.3'	5	37.3'	3	45.3'	4			50'	20.5		4.0'	2.0'	5.0'	21.3'	3.0'	2.5'	25.3'	3.0'	3.0'				41.3'	3.0'	2.5'		

NOTE: TOP OF FOUNDATION ELEVATION IS ONE-HALF FOOT ABOVE GROUND ELEVATION.
** FUTURE SIGNAL HEAD INCLUDED FOR DESIGN PURPOSES ONLY.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

PETERS AND YAFFEE, INC.
9822 TAPESTRY PARK CIRCLE, SUITE 205
JACKSONVILLE, FL 32246
WAYNE T. PETRONE, P.E. 42860

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CHESTER ROAD	NASSAU	

MAST ARM TABULATION SHEET

SHEET NO. T-14

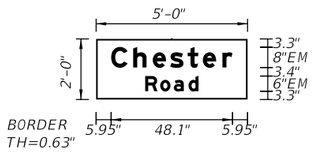
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

SIGN NAME	L, M	QTY	8	SIGN NUMBER	STATION(S)
PANEL		BORDER			none
WIDTH	5'-0"	WIDTH	0.63"		
HEIGHT	2'-0"	RADII	0"		
LEGEND	White	COLOR	White		
COLOR	Green				

SYMBOL(S)	ANGLE	X	Y	WID	HT

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



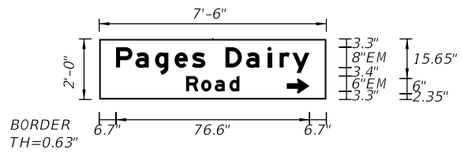
NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

COPY	C	h	e	s	t	e	r		L															
SPACE	6	14.7	22.4	29.3	36.3	42.3	50		48.1															
COPY	R	o	a	d		L																		
SPACE	19.4	25.4	30.8	36.6		21.1																		
COPY																								
SPACE																								
COPY																								
SPACE																								
COPY																								
SPACE																								
COPY																								
SPACE																								

SIGN NAME	C	QTY	2	SIGN NUMBER	STATION(S)
PANEL		BORDER			none
WIDTH	7'-6"	WIDTH	0.63"		
HEIGHT	2'-0"	RADII	0"		
LEGEND	White	COLOR	White		
COLOR	Green				

SYMBOL(S)	ANGLE	X	Y	WID	HT
AR_Type D	270	74.3	2.4	6	9

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



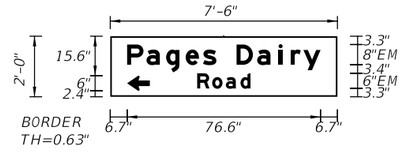
NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

COPY		P	a	g	e	s		D	a	i	r	y		L										
SPACE	6.7	7.7	7.8	7.8	6.9	5.3	8	8.2	8.5	4.8	5	6.8	6.7	76.6										
COPY		R	o	a	d		L																	
SPACE	34.4	5.9	5.4	5.8	4	34.4	21.1																	
COPY																								
SPACE																								
COPY																								
SPACE																								
COPY																								
SPACE																								
COPY																								
SPACE																								

SIGN NAME	D	QTY	2	SIGN NUMBER	STATION(S)
PANEL		BORDER			none
WIDTH	7'-6"	WIDTH	0.63"		
HEIGHT	2'-0"	RADII	0"		
LEGEND	White	COLOR	White		
COLOR	Green				

SYMBOL(S)	ANGLE	X	Y	WID	HT
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SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



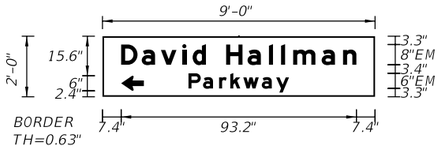
NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

COPY		P	a	g	e	s		D	a	i	r	y		L										
SPACE	6.7	7.7	7.8	7.8	6.9	5.3	8	8.2	8.5	4.8	5	6.8	6.7	76.6										
COPY		R	o	a	d		L																	
SPACE	34.4	5.9	5.4	5.8	4	34.4	21.1																	
COPY																								
SPACE																								
COPY																								
SPACE																								
COPY																								
SPACE																								
COPY																								
SPACE																								

SIGN NAME	I	QTY	2	SIGN NUMBER	STATION(S)
PANEL		BORDER			none
WIDTH	9'-0"	WIDTH	0.63"		
HEIGHT	2'-0"	RADII	0"		
LEGEND	White	COLOR	White		
COLOR	Green				

SYMBOL(S)	ANGLE	X	Y	WID	HT
AR_Type D	90	7.4	2.4	6	9

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

COPY		D	a	v	i	d		H	a	l	l	m	a	n		L								
SPACE	7.4	8.2	7.6	8.5	4.1	5.3	8	8.5	8.5	4.8	4.8	11.3	8.5	5.3	7.4	93.2								
COPY		P	a	r	k	w	a	y		L														
SPACE	34.1	5.8	6.4	4.4	5.2	7.3	5.7	5.1	34.1	39.8														
COPY																								
SPACE																								
COPY																								
SPACE																								
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SPACE																								
COPY																								
SPACE																								

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

PETERS AND YAFFEE, INC.
9822 TAPESTRY PARK CIRCLE, SUITE 205
JACKSONVILLE, FL 32246
WAYNE T. PETRONE, P.E. 42860

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CHESTER ROAD	NASSAU	

GUIDE SIGN WORKSHEET

SHEET NO. T-15

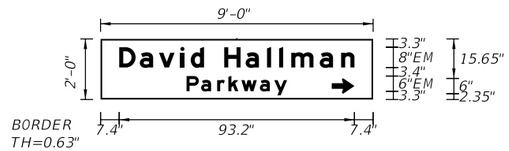
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DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

SIGN NAME	J		QTY	2	SIGN NUMBER	STATION(S)
PANEL		BORDER				none
WIDTH	9'-0"	WIDTH	0.63"			
HEIGHT	2'-0"	RADII	0"			
LEGEND	White	COLOR	White			
COLOR	Green					

SYMBOL(S)	ANGLE	X	Y	WID	HT
AR_Type D	270	91.6	2.4	6	9

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

COPY		D	a	v	i	d		H	a	l	l	m	a	n		L						
SPACE	7.4	8.2	7.6	8.5	4.1	5.3	8	8.5	8.5	4.8	4.8	11.3	8.5	5.3	7.4	93.2						
COPY		P	a	r	k	w	a	y		L												
SPACE	34.1	5.8	6.4	4.4	5.2	7.3	5.7	5.1	34.1	39.8												
COPY																						
SPACE																						
COPY																						
SPACE																						
COPY																						
SPACE																						
COPY																						
SPACE																						

SIGN NAME		QTY		SIGN NUMBER	STATION(S)
PANEL		BORDER			
WIDTH		WIDTH			
HEIGHT		RADII			
LEGEND		COLOR			
COLOR					

SYMBOL(S)	ANGLE	X	Y	WID	HT

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH

NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

COPY																						
SPACE																						
COPY																						
SPACE																						
COPY																						
SPACE																						
COPY																						
SPACE																						
COPY																						
SPACE																						

SIGN NAME		QTY		SIGN NUMBER	STATION(S)
PANEL		BORDER			
WIDTH		WIDTH			
HEIGHT		RADII			
LEGEND		COLOR			
COLOR					

SYMBOL(S)	ANGLE	X	Y	WID	HT

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH

NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

COPY																						
SPACE																						
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COPY																						
SPACE																						

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

PETERS AND YAFFEE, INC.
9822 TAPESTRY PARK CIRCLE, SUITE 205
JACKSONVILLE, FL 32246
WAYNE T. PETRONE, P.E. 42860

NASSAU COUNTY ENGINEERING

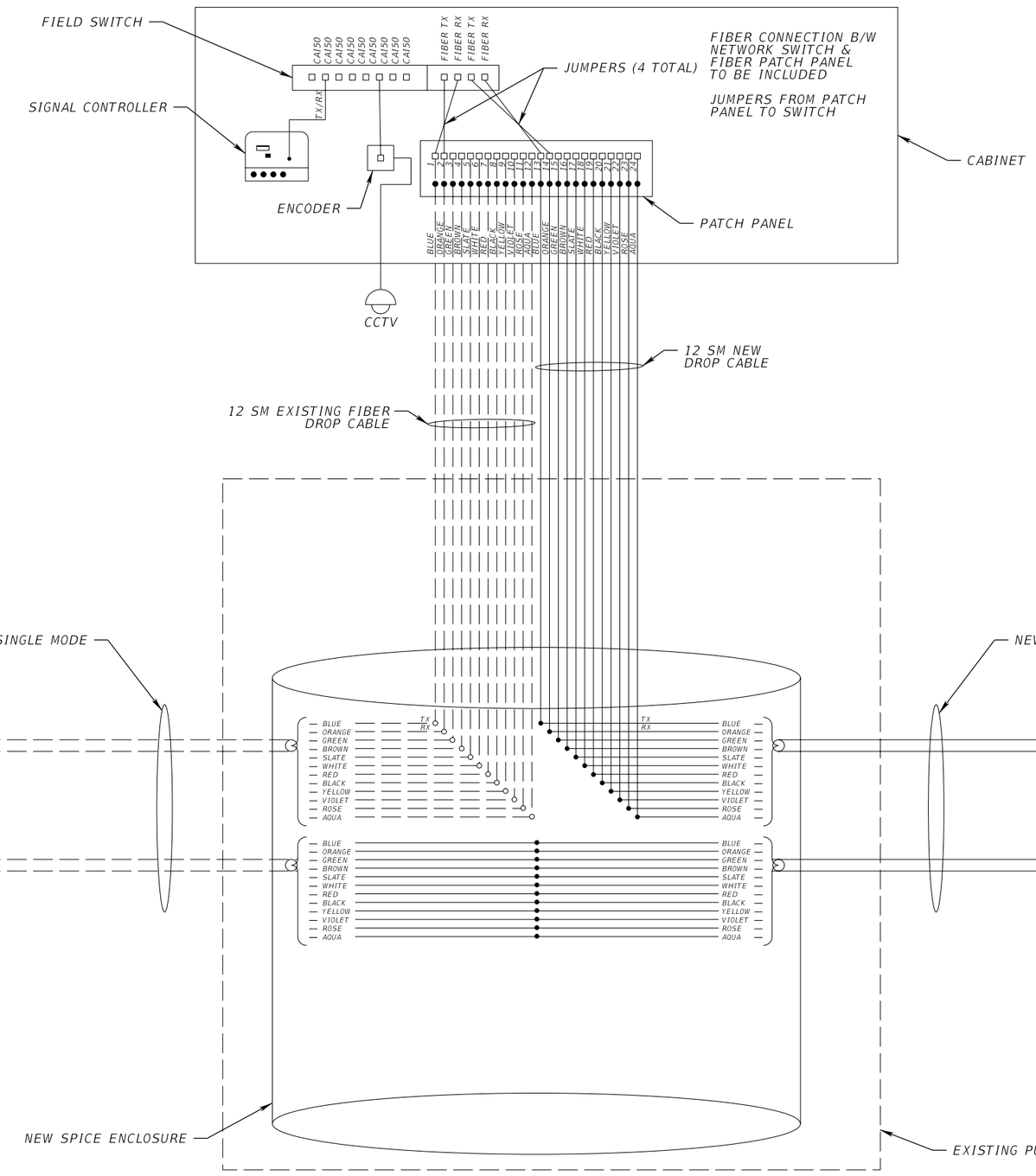
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CHESTER ROAD	NASSAU	

GUIDE SIGN WORKSHEET

SHEET NO. T-16

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

CHESTER ROAD AT DAVID HALLMAN PARKWAY



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

PETERS AND YAFFEE, INC.
9822 TAPESTRY PARK CIRCLE, SUITE 205
JACKSONVILLE, FL 32246
WAYNE T. PETRONE, P.E. 42860

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CHESTER ROAD	NASSAU	

ITS SPLICING DETAILS

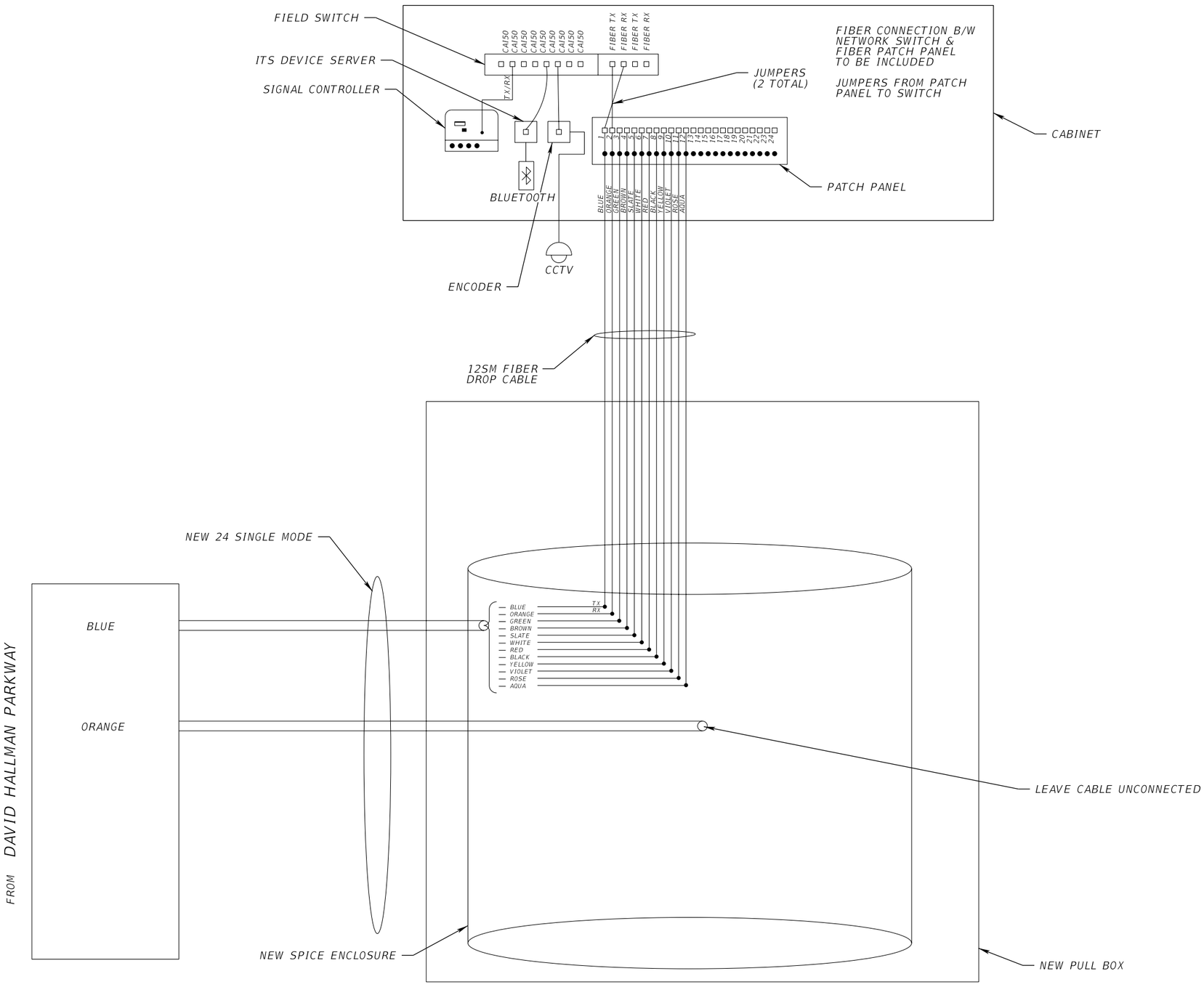
SHEET NO. T-17

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DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

CHESTER ROAD AT PAGES DAIRY ROAD



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

PETERS AND YAFFEE, INC.
9822 TAPESTRY PARK CIRCLE, SUITE 205
JACKSONVILLE, FL 32246
WAYNE T. PETRONE, P.E. 42860

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CHESTER ROAD	NASSAU	

ITS SPLICING DETAILS

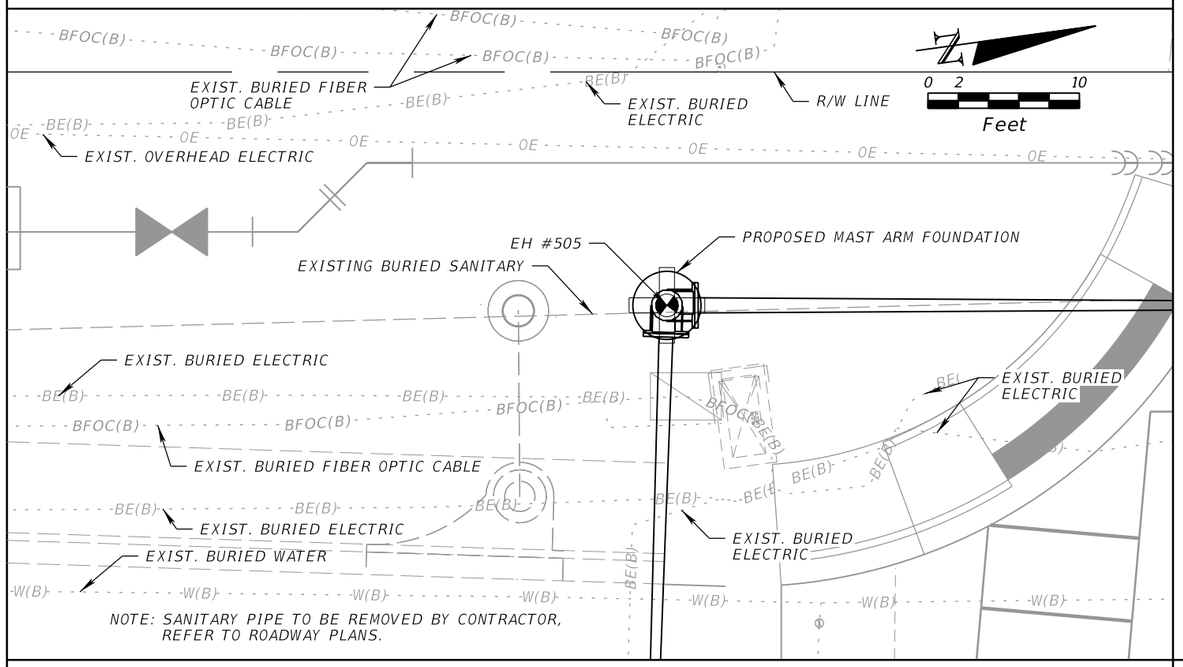
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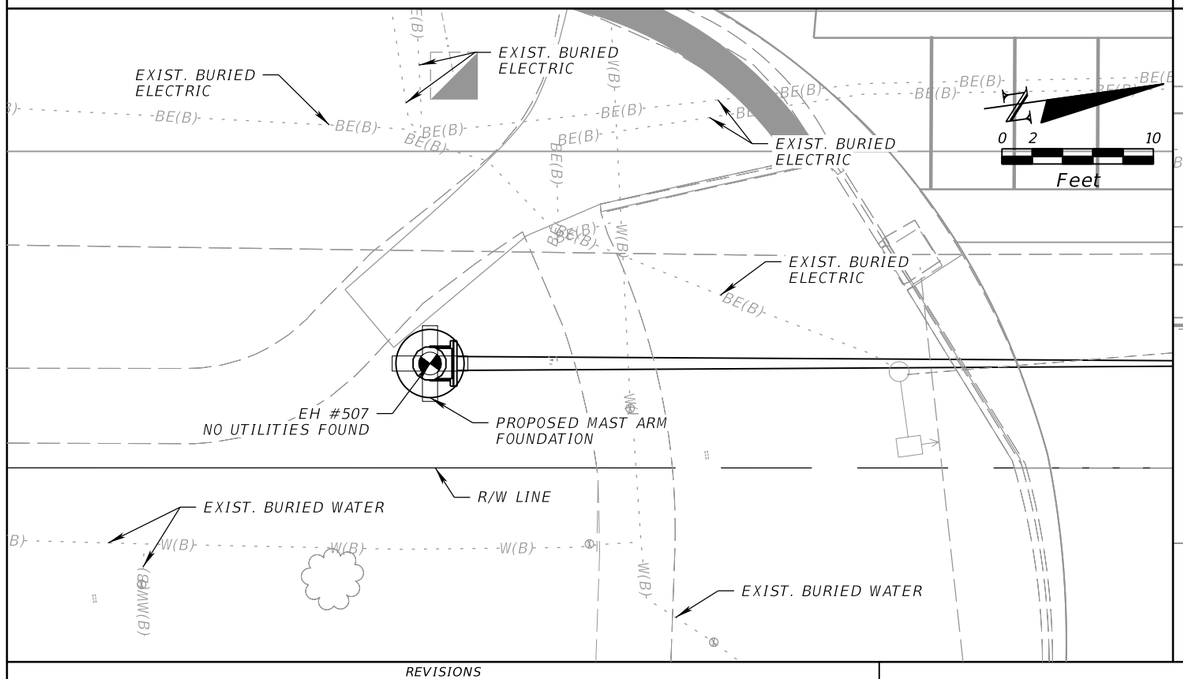
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

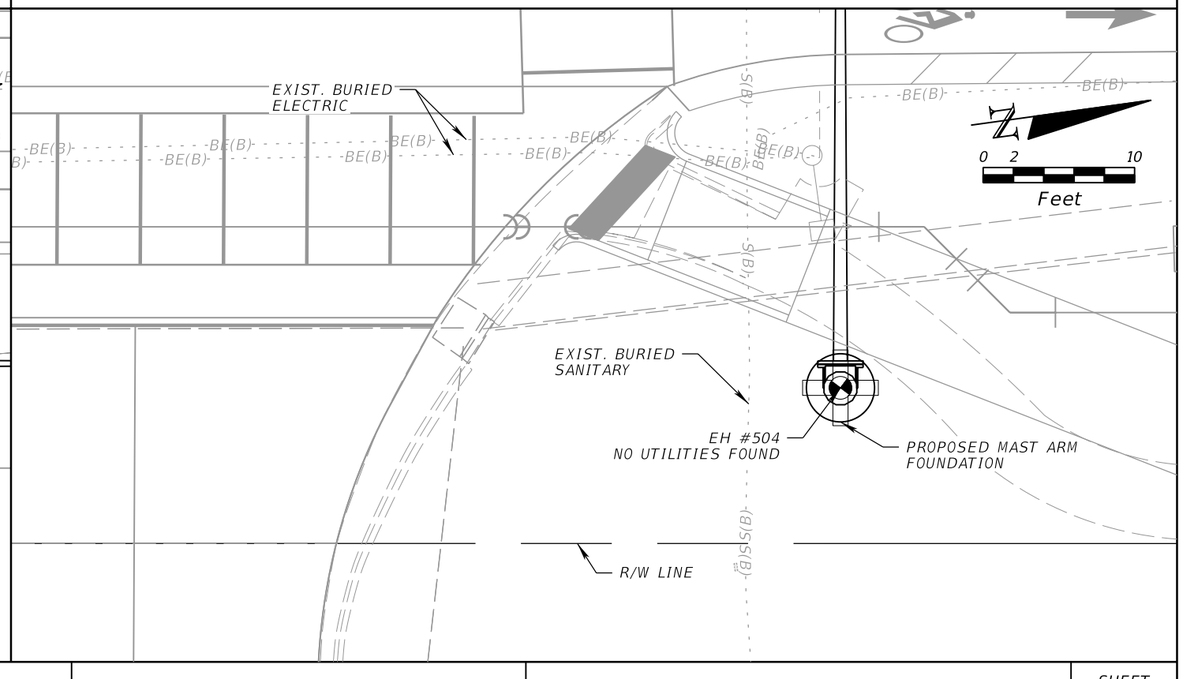
CHESTER RD AT SHOPPING CENTER DR – POLE 1: STA. 1233+42.11, 54.6' LT



CHESTER RD AT SHOPPING CENTER DR – POLE 3: STA. 1233+40.87, 63.0' RT



CHESTER RD AT SHOPPING CENTER DR – POLE 2: STA. 1234+53.18, 59.6' RT



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

PETERS AND YAFFEE, INC.
9822 TAPESTRY PARK CIRCLE, SUITE 205
JACKSONVILLE, FL 32246
WAYNE T. PETRONE, P.E. 42860

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CHESTER ROAD	NASSAU	

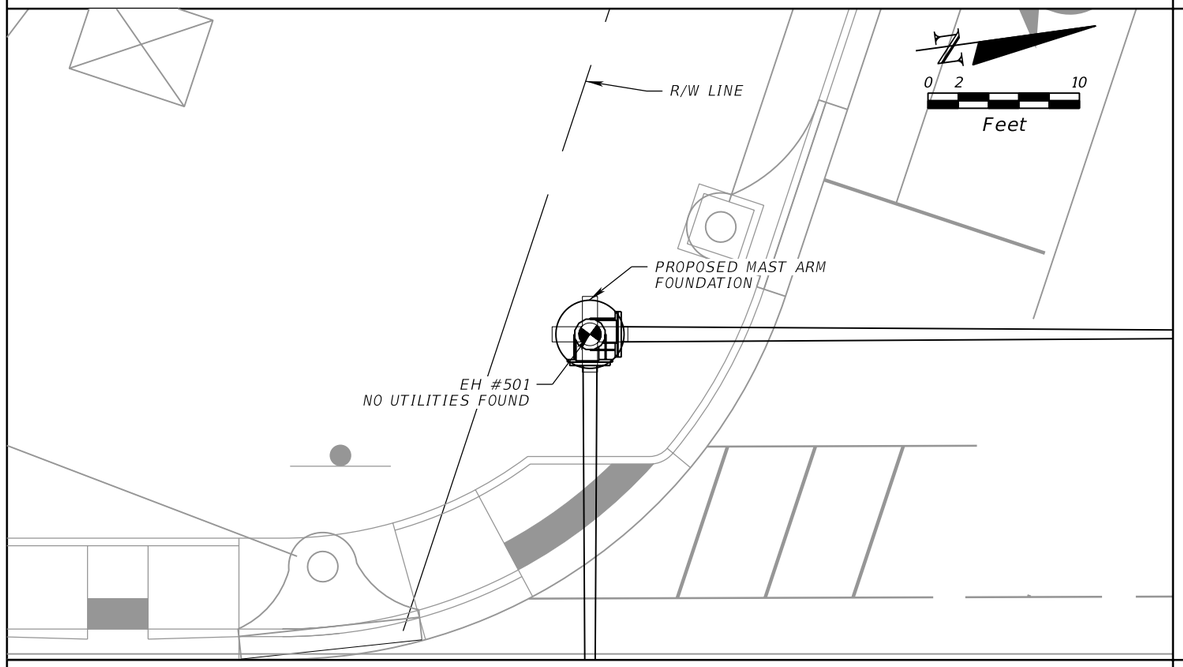
UTILITY PLAN

SHEET NO. T-19

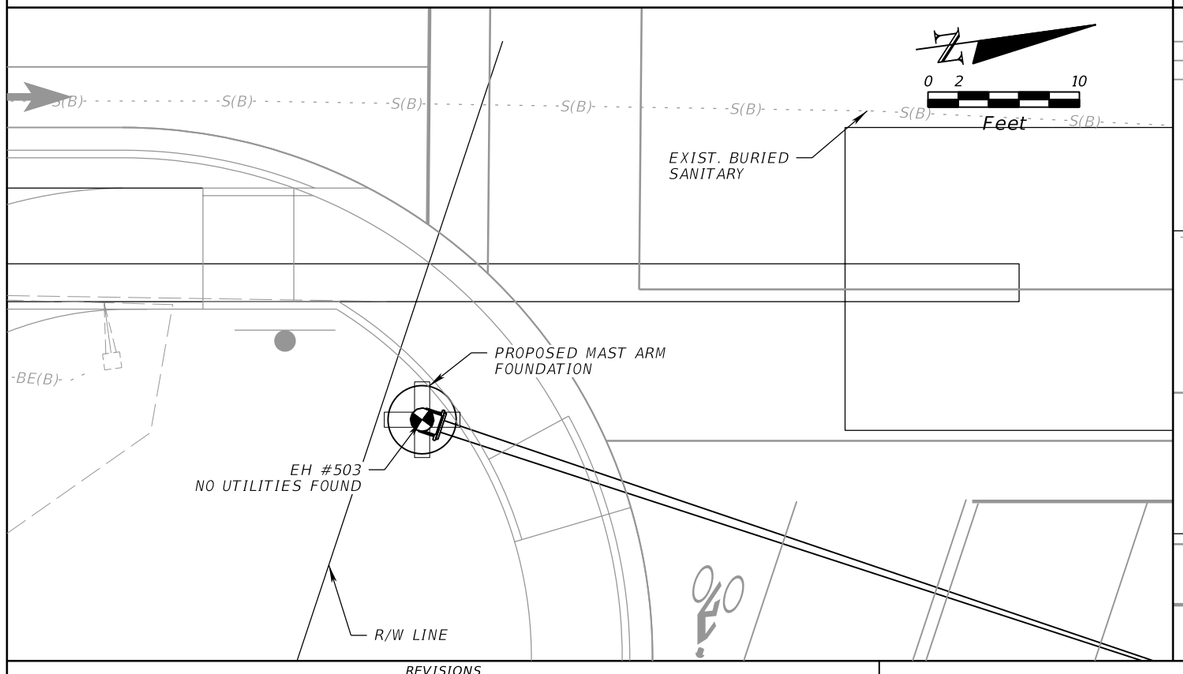
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

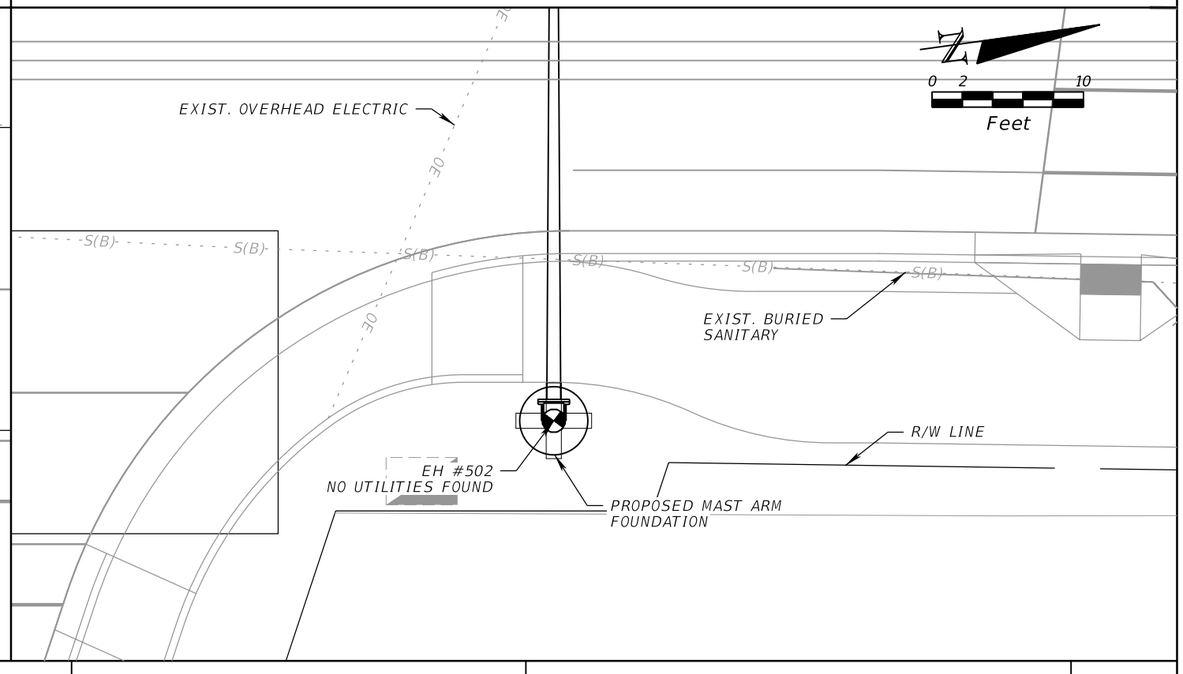
CHESTER RD AT PAGES DAIRY RD – POLE 4: STA. 1249+12.06, 65.0' LT



CHESTER RD AT PAGES DAIRY RD – POLE 6: STA. 1248+70.76, 50.8' RT



CHESTER RD AT PAGES DAIRY RD – POLE 5: STA. 185+39.88, 44.0' RT



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

PETERS AND YAFFEE, INC.
9822 TAPESTRY PARK CIRCLE, SUITE 205
JACKSONVILLE, FL 32246
WAYNE T. PETRONE, P.E. 42860

NASSAU COUNTY ENGINEERING

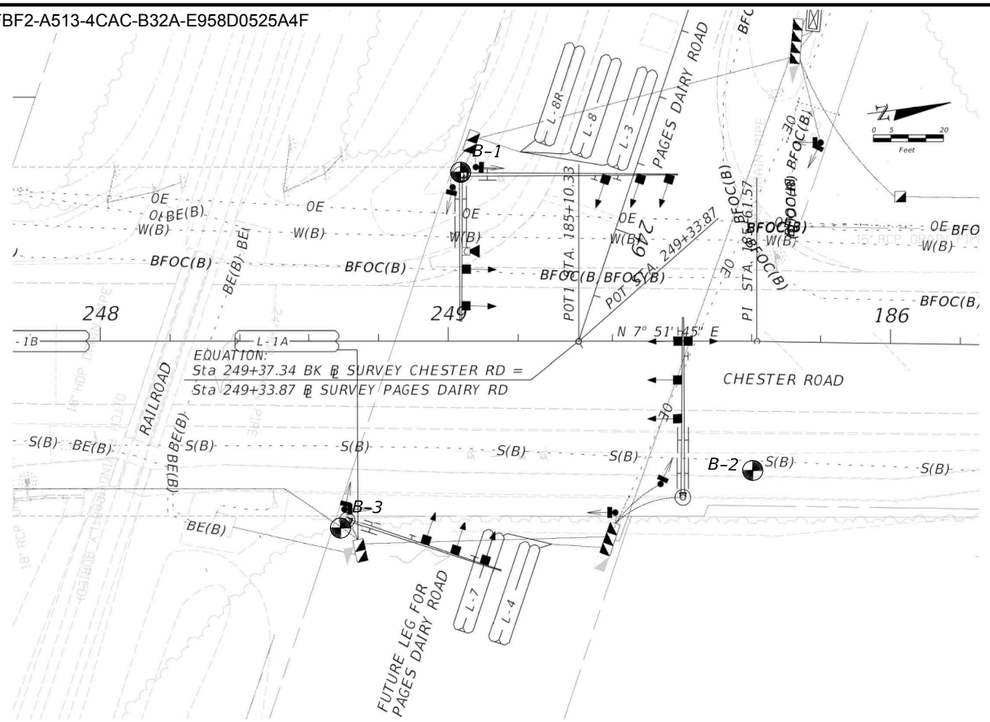
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CHESTER ROAD	NASSAU	

UTILITY PLAN

SHEET NO. T-20

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



WITH RELATIVE DENSITY AND CONSISTENCY OF SOIL USING AUTOMATIC HAMMER

GRANULAR MATERIALS (SANDS & GRAVELS)		COHESIVE MATERIALS	
RELATIVE DENSITY	SPT N (BLOWS/FT.)	CONSISTENCY DESIGNATION	SPT N (BLOWS/FT.)
Very Loose	Less than 3	Very Soft	Less than 1
Loose	3-8	Soft	1-3
Medium Dense	8-24	Firm	3-6
Dense	24-40	Stiff	6-12
Very Dense	Greater than 40	Very Stiff	12-24
		Hard	Greater than 24

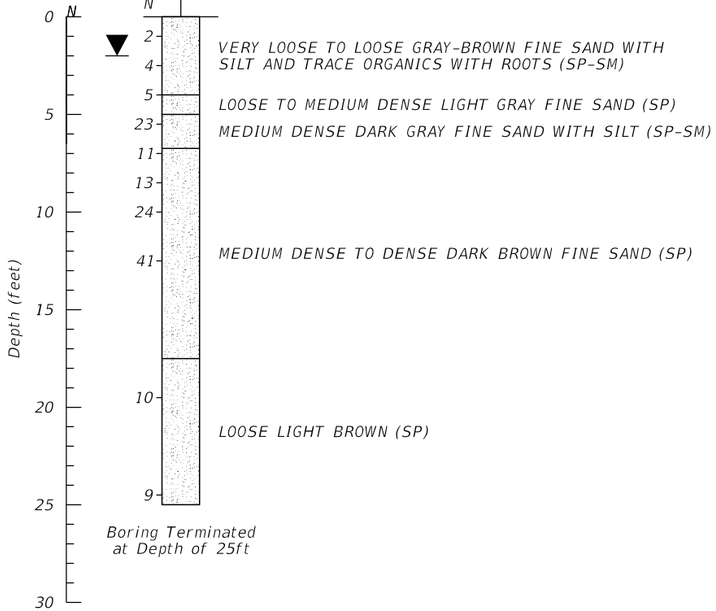
NOTES

1. Subsurface variations between borings should be anticipated as indicated in Section 2-4 of the Standard Specifications.
2. Boring locations and elevations were estimated based on project plans.
3. Boreholes were grouted with a Portland cement grout upon completion of the boring.

LEGEND

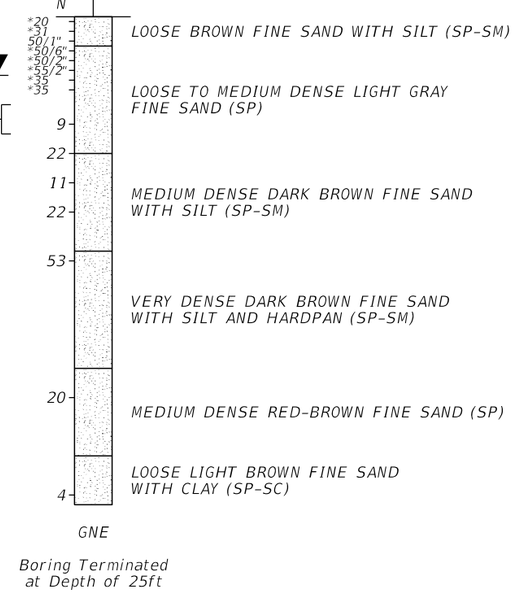
- Sand
- SPT Boring Location
- N N-Value
- Water Level at Time of Drilling
- -200 Percent Passing No. 200 US Standard Sieve
- MC Natural Moisture Content
- LL Liquid Limit
- * Static Cone Penetrometer Readings
- WOH Weight of Hammer

BOR # B-1
STA. 249+03.64 PAIGES DAIRY & CHESTER RD
OFF. 47.8' LT
DATE 10/23/2020
DRILLER B. TRUITT
HAMMER AUTO



Boring Terminated at Depth of 25ft

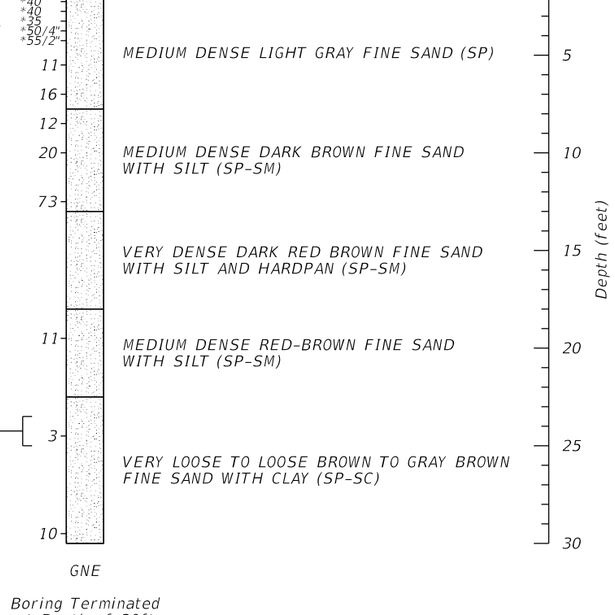
BOR # B-2
STA. 185+40.27 PAIGES DAIRY & CHESTER RD
OFF. 44.6' RT
DATE 10/23/2020
DRILLER B. TRUITT
HAMMER AUTO



GNE

Boring Terminated at Depth of 25ft

BOR # B-3
STA. 248+70.99 PAIGES DAIRY & CHESTER RD
OFF. 51.1 RT
DATE 10/23/2020
DRILLER B. TRUITT
HAMMER AUTO



GNE

Boring Terminated at Depth of 30ft

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

STEPHEN R. WEAVER, P.E.
P.E. LICENSE NUMBER 37389
UNIVERSAL ENGINEERING SCIENCES, INC.
5561 FLORIDA MINING BLVD. S.
JACKSONVILLE, FLORIDA 32257
CERTIFICATE OF AUTHORIZATION 00000549

DRAWN BY: TW	11/12/20
CHECKED BY: PM	11/12/20
DESIGNED BY: TW	11/12/20
CHECKED BY: PM	11/12/20

CONNELLY & WICKER

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
N/A	NASSAU	N/A

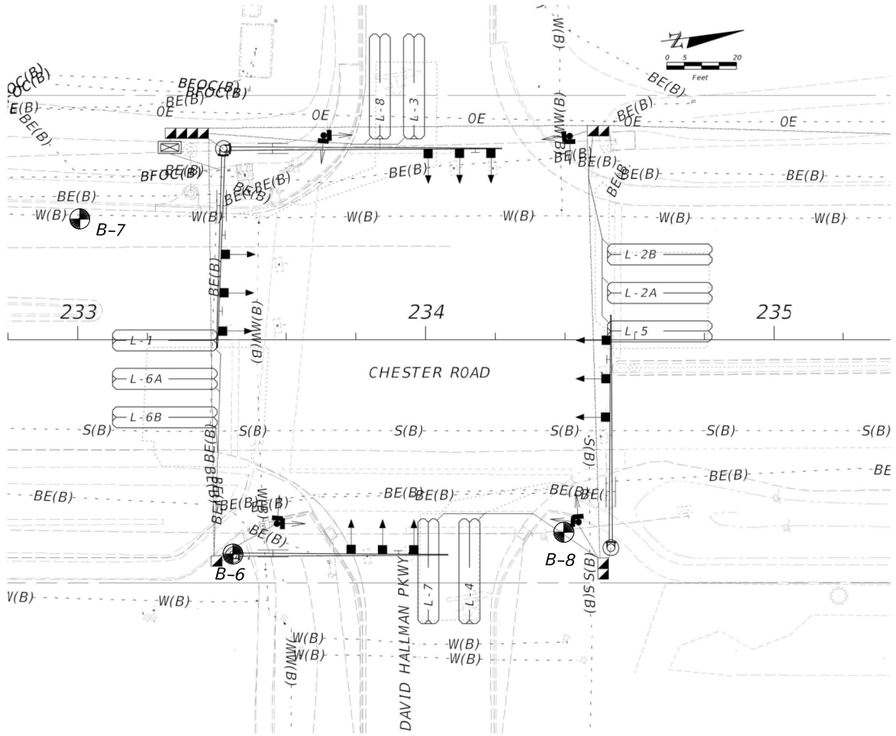
SHEET TITLE: REPORT OF CORE BORINGS (1 OF 2)

REF. DWG. NO.

PROJECT NAME: PAIGES DAIRY ROAD AND CHESTER ROAD INTERSECTION IMPROVEMENTS

SHEET NO. T-21

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



WITH RELATIVE DENSITY AND CONSISTENCY OF SOIL
USING AUTOMATIC HAMMER

GRANULAR MATERIALS (SANDS & GRAVELS)		COHESIVE MATERIALS	
RELATIVE DENSITY	SPT N (BLOWS/FT.)	CONSISTENCY DESIGNATION	SPT N (BLOWS/FT.)
Very Loose	Less than 3	Very Soft	Less than 1
Loose	3-8	Soft	1-3
Medium Dense	8-24	Firm	3-6
Dense	24-40	Stiff	6-12
Very Dense	Greater than 40	Very Stiff	12-24
		Hard	Greater than 24

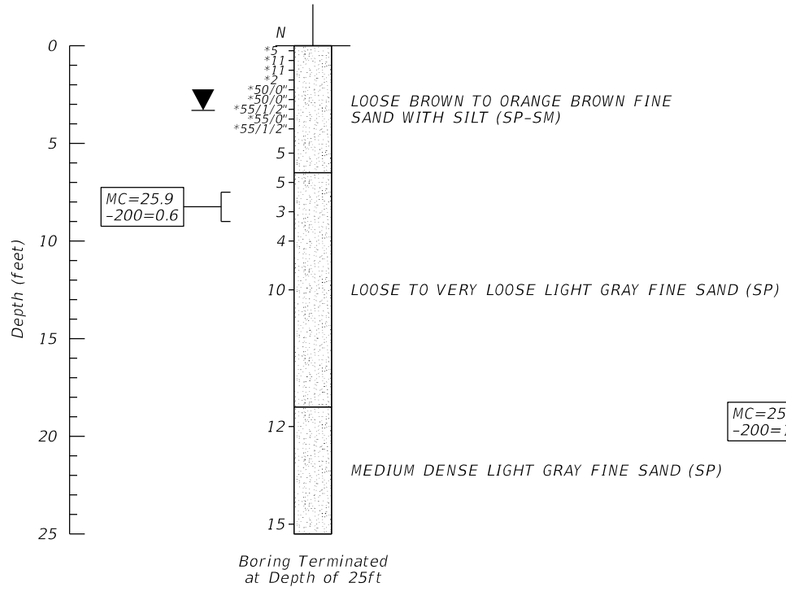
NOTES

1. Subsurface variations between borings should be anticipated as indicated in Section 2-4 of the Standard Specifications.
2. Boring locations and elevations were estimated based on project plans.
3. Boreholes were grouted with a Portland cement grout upon completion of the boring.

LEGEND

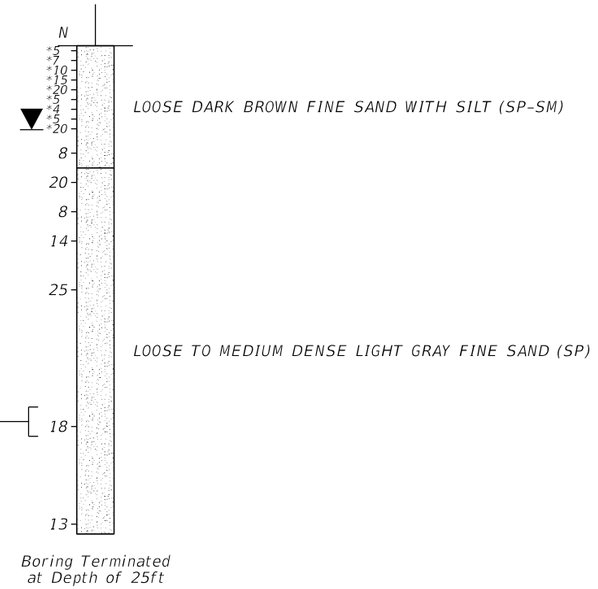
- Sand
- SPT Boring Location
- N N-Value
- Water Level at Time of Drilling
- -200 Percent Passing No. 200 US Standard Sieve
- MC Natural Moisture Content
- LL Liquid Limit
- * Static Cone Penetrometer Readings
- WOH Weight of Hammer

BOR # B-6
STA. 233+44.62 PAIGES DAIRY RD & DAVID HALLMAN PKWY
OFF. 61.8' RT
DATE 10/23/2020
DRILLER B. TRUITT
HAMMER AUTO



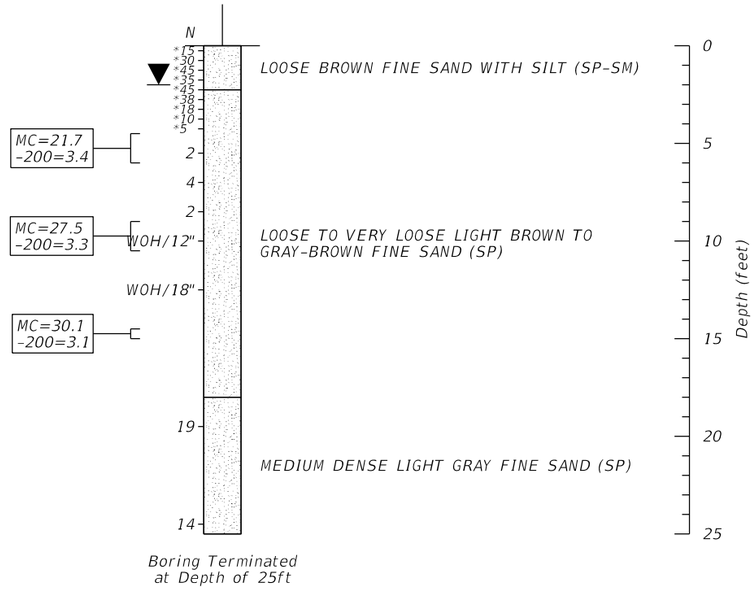
Boring Terminated at Depth of 25ft

BOR # B-7
STA. 233+41.74 PAIGES DAIRY RD & DAVID HALLMAN PKWY
OFF. 54.8' LT
DATE 10/23/2020
DRILLER B. TRUITT
HAMMER AUTO



Boring Terminated at Depth of 25ft

BOR # B-8
STA. 234+53.16 PAIGES DAIRY RD & DAVID HALLMAN PKWY
OFF. 59.7' RT
DATE 10/23/2020
DRILLER B. TRUITT
HAMMER AUTO



Boring Terminated at Depth of 25ft

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

STEPHEN R. WEAVER, P.E.
P.E. LICENSE NUMBER 37389
UNIVERSAL ENGINEERING SCIENCES, INC.
5561 FLORIDA MINING BLVD. S.
JACKSONVILLE, FLORIDA 32257
CERTIFICATE OF AUTHORIZATION 00000549

DRAWN BY: TW	11/12/20
CHECKED BY: PM	11/12/20
DESIGNED BY: TW	11/12/20
CHECKED BY: PM	11/12/20

CONNELLY & WICKER

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
N/A	NASSAU	N/A

SHEET TITLE: REPORT OF CORE BORINGS (2 OF 2)

REF. DWG. NO.:

PROJECT NAME: PAIGES DAIRY ROAD AND CHESTER ROAD INTERSECTION IMPROVEMENTS

SHEET NO.: T-22

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

STANDARD MAST ARM ASSEMBLIES DATA TABLE

Table Date 11-01-16

STRUCTURE ID NUMBERS	DESIGNATION	FIRST ARM		SECOND ARM		UF (deg)	LL (deg)	POLE			DRILLED SHAFT ID
		ARM ID	FAA (ft.)	ARM ID	SAA (ft.)			POLE ID	UAA (ft.)	UB (ft.)	
1	A78/DH-A60/DH-P6/D	A78/DH	39	A60/DH	30.5	270	--	P6/D	23	20	DS/20/5.0
2	A70/S-P5/S	A70/S	30	--	--	--	--	P5/S	24	21	DS/25/5.0
3	A60/S-P4/S	A60/S	33.5	--	--	--	--	P4/S	23	20	DS/18/5.0
4	A70/D-A50/D-P5/D	A70/D	38	A50/D	32.5	270	--	P5/D	23.5	20.5	DS/16/5.0
5	A60/S-P4/S	A60/S	22.5	--	--	--	--	P4/S	23.5	20.5	DS/14/4.5
6	A50/SH-P3/S	A50/SH	32.5	--	--	--	--	P3/S	23.5	20.5	DS/14/4.5

NOTES [Notes Date 11-01-16]:

1. If an entry appears in column FAA, a shorter arm is required. This is obtained by removing length from the arm tip and the arm length shortened from FA to FAA. SAA Similar.
2. If an entry appears in column UAA, a shorter pole is required. This is obtained by removing length from the pole tip and the pole height shortened from UA to UAA.
3. Arm mounting height UB must be between 18-22 feet.
4. Pole types P2 and larger require a minimum 4.5 foot diameter drilled shaft. Pole types P5 and larger require a minimum 5.0 foot diameter drilled shaft.
5. Work this sheet with the Signal Designer's "Mast Arm Tabulation". See "Mast Arm Tabulation" for special instructions that include non-standard Handhole location, paint color, terminal compartment requirement, and pedestrian features.
6. Work with Index 649-030 and 649-031.

NOTES:
1. Design Wind Speed = 130 mph (Nassau)

FOUNDATION NOTES:
1. Design based on Borings taken and soil parameters provided by Geotechnical and Environmental Consultants, Inc. sealed by Christopher P. Meyer, P.E.

SOIL PARAMETERS USED FOR FOUNDATION DESIGN						
Pole	1	2	3	4	5	6
Soil Type	Cohesionless					
Internal Angle of Friction (deg.)	30	28	29	34	32	31
Effective Unit Weight (pcf)	45.5	40	43.5	50.5	46.5	47
N-count (blows per foot)	11.5	5	9	24.5	19	17
Ground Water Elevation	At Ground Level					

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.
Designed By : BKN 10-23
Checked By : DM 10-23
Drawn By : BKN 10-23
Checked By : DM 10-23

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DUANE MERRELL, P.E.
P.E. LICENSE NUMBER 36843
POND & COMPANY
1200 RIVERPLACE BLVD. STE 600
JACKSONVILLE, FL 32207

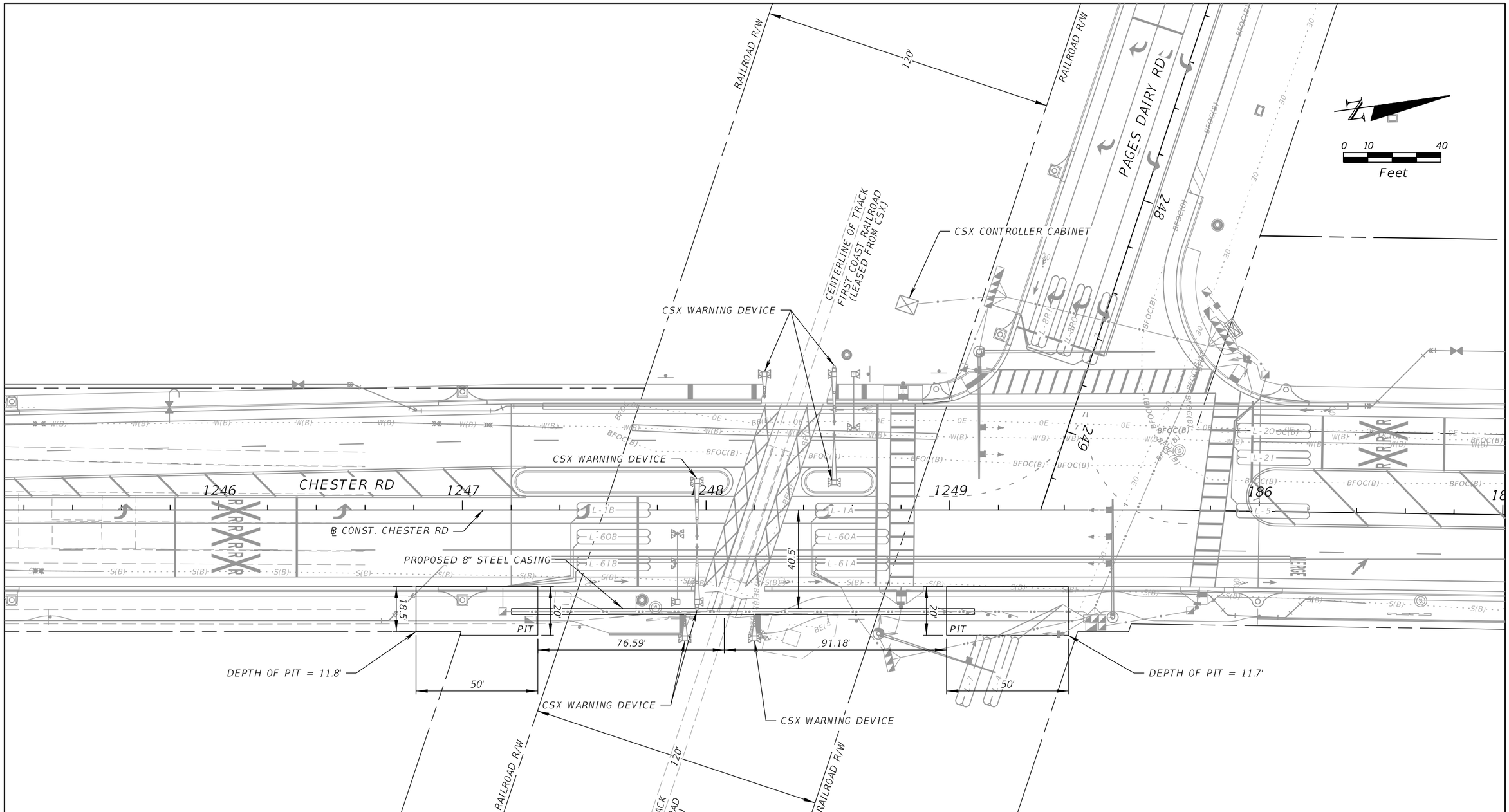
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CHESTER ROAD	NASSAU	

MAST ARM ASSEMBLIES DATA TABLE

SHEET NO. T-23

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



GENERAL NOTES:

THE FRONT OF THE CASING PIPE SHALL BE PROVIDED WITH MECHANICAL ARRANGEMENTS OR DEVICES THAT WILL POSITIVELY PREVENT THE AUGER FROM LEADING THE PIPE SO THAT NO UNSUPPORTED EXCAVATION IS AHEAD OF THE PIPE.

CASING PIPE ENDS MUST BE SEALED ACCORDING TO CSXT SPECS.

LOCATION:	CHESTER RD. 115' SOUTH OF INTERSECTION OF CHESTER RD. AND PAGES DAIRY RD.
LATITUDE:	30° 37' 56.64" N
LONGITURDE:	81° 32' 46.77" W
DRAWING SCALE:	1"=40'

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

PETERS AND YAFFEE, INC.
9822 TAPESTRY PARK CIRCLE, SUITE 205
JACKSONVILLE, FL 32246
WAYNE T. PETRONE, P.E. 42860

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CHESTER ROAD	NASSAU	

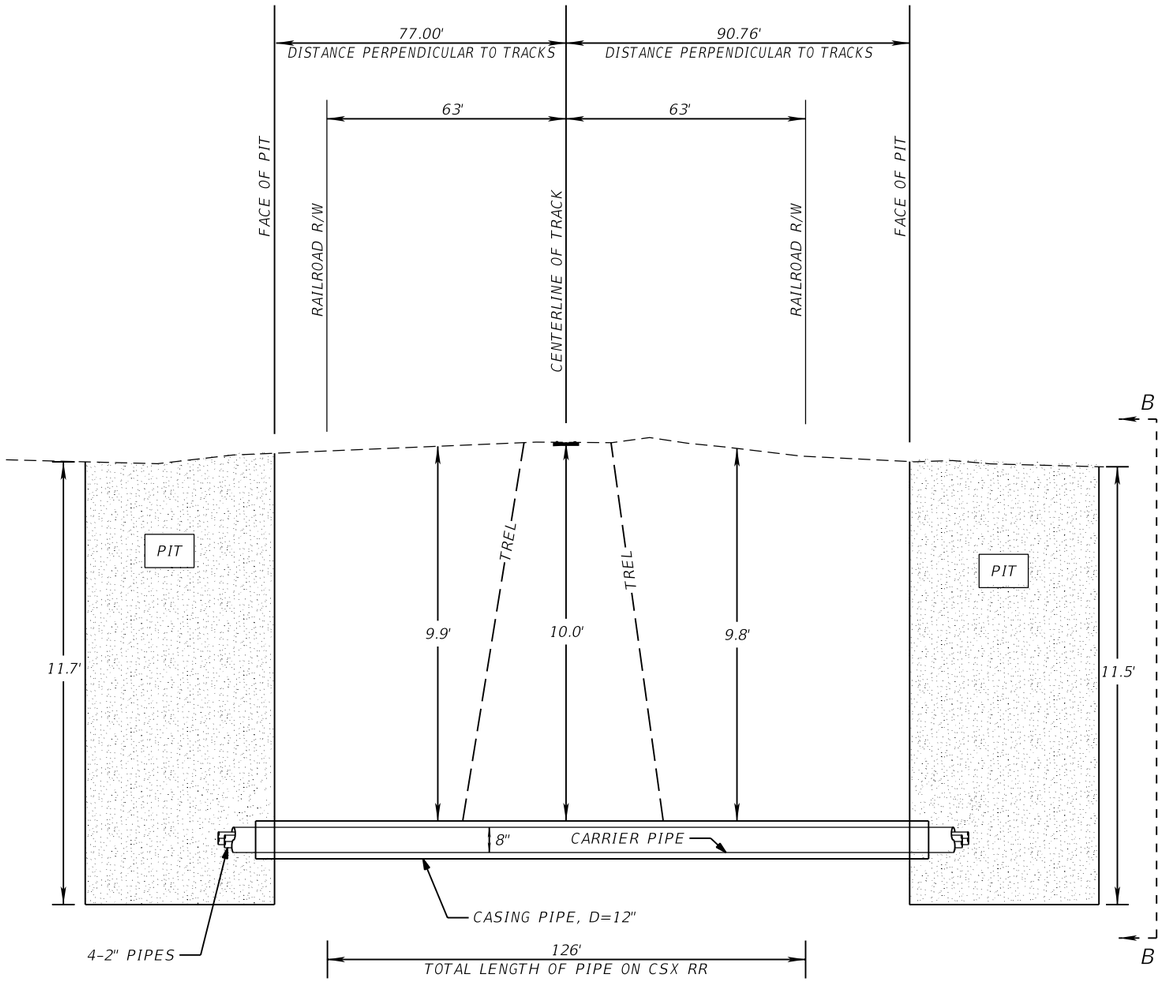
RAILROAD JACK AND BORE PLAN VIEW

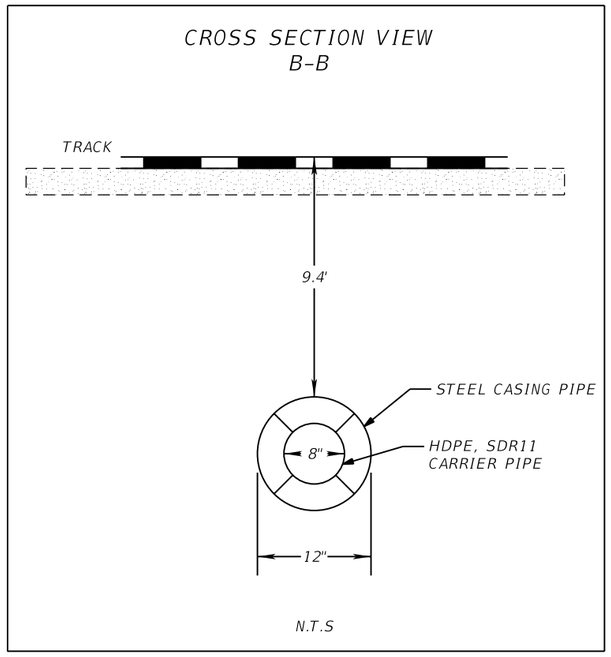
SHEET NO. T-24

jcatagan 12/13/2023 12:37:29 PM F:\2016\16-026 Nassau County Pages Dairy Chester Road Intersection Improvements - CWI\FPID# or PY-Job#\signals\ssdtsg09.dgn

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DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F





GENERAL NOTES:

THE FRONT OF THE CASING PIPE SHALL BE PROVIDED WITH MECHANICAL ARRANGEMENTS OR DEVICES THAT WILL POSITIVELY PREVENT THE AUGER FROM LEADING THE PIPE SO THAT NO UNSUPPORTED EXCAVATION IS AHEAD OF THE PIPE.

CASING PIPE ENDS MUST BE SEALED ACCORDING TO CSXT SPECS.

LOCATION:	CHESTER RD.. 114' SOUTH OF INTERSECTION OF CHESTER RD. AND PAGES DAIRY RD. (CR200A)
LATITUDE:	N 30.632353
LONGITUDE:	W -81.546255
DRAWING SCALE: V	1" = 4'
DRAWING SCALE: H	1" = 40'

PIPELINE CONTENT DETAILS		
COMMODITY DESCRIPTION:	PRESSURIZED/NON-FLAMMABLE (SIGNAL CABLE)	
MAXIMUM OPERATING PRESSURE:	350 psi	
IS COMMODITY FLAMMABLE:	NO	
CARRIER/CASING PIPE DETAILS		
	CARRIER PIPE	CASING PIPE
PIPE MATERIAL:	HDPE, SDR11	STEEL
MATERIAL SPECIFICATIONS & GRADE:	ASTM F2160	ASTM STANDARD A139
SPECIFIED MINIMUM YIELD STRENGTH:	3000-3500 psi	35,000 psi
NOMINAL SIZE OUTSIDE DIAMETER (INCHES):	2.375"	12
WALL THICKNESS (INCHES):	0.216"	.469
TYPE OF SEAM:	PUSH ON	WELDED
TYPE OF JOINTS:	GLUED	WELDED
TUNNEL LINER PLATES REQUIRED:	NO	
CATHODIC PROTECTION:	NO	
PROTECTIVE COATING:	NO	
TEMP. TRACK SUPPORT OR RIP-RAP REQ.:	NO	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

PETERS AND YAFFEE, INC.
9822 TAPESTRY PARK CIRCLE, SUITE 205
JACKSONVILLE, FL 32246
WAYNE T. PETRONE, P.E. 42860

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CHESTER ROAD	NASSAU	

RAILROAD JACK AND BORE PROFILE VIEW

SHEET NO. T-25

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APPENDIX E

Subsurface Utility Locates

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

DRMP
ENGINEERS• SURVEYORS• PLANNERS• SCIENTISTS

CAMERA #: 4

VACUUM EXCAVATION RECORD

PROJECT: CHESTER RD. / S.M.A.

DATE: 10.19.2020

CREW: I. DUNHAM, I. JASMIN

CITY/COUNTY: NASSAU

ONE-CALL #: 284004998

FPN/DRMP #:

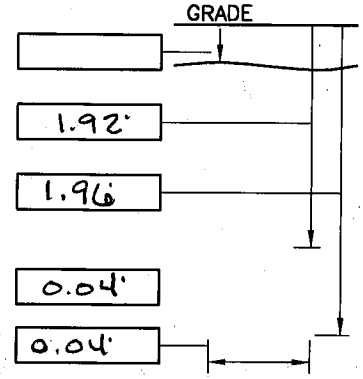
HOLE #: WH-501

UTILITY FOUND: FOC 1/2" DBC.

GROUND: ASPHALT CONCRETE (DIRT) OTHER

SOIL CONDITION: HARD (SOFT) WET (DRY) (SAND) DIRT CLAY ROCKY

VERTICAL INFORMATION:



PAVING THICKNESS:	
DEPTH TO TOP OF UTILITY:	1.92'
DEPTH TO BOTTOM OF UTILITY:	1.96
EXPECTED WIDTH OF UTILITY:	0.04'
MEASURED WIDTH OF UTILITY:	0.04'

ELEV. AT GRADE:	ELEV. AT TOP:	ELEV. AT BOTTOM:
[redacted]	27.93'	27

APPROX. STATION:	OFFSET DISTANCE:	OFFSET DIRECTION:	UTILITY DIRECTION:
			E+W

NORTHING:	EASTING:	STATE PLANE ZONE:
[redacted]	484088.30	FL-E

AT&T

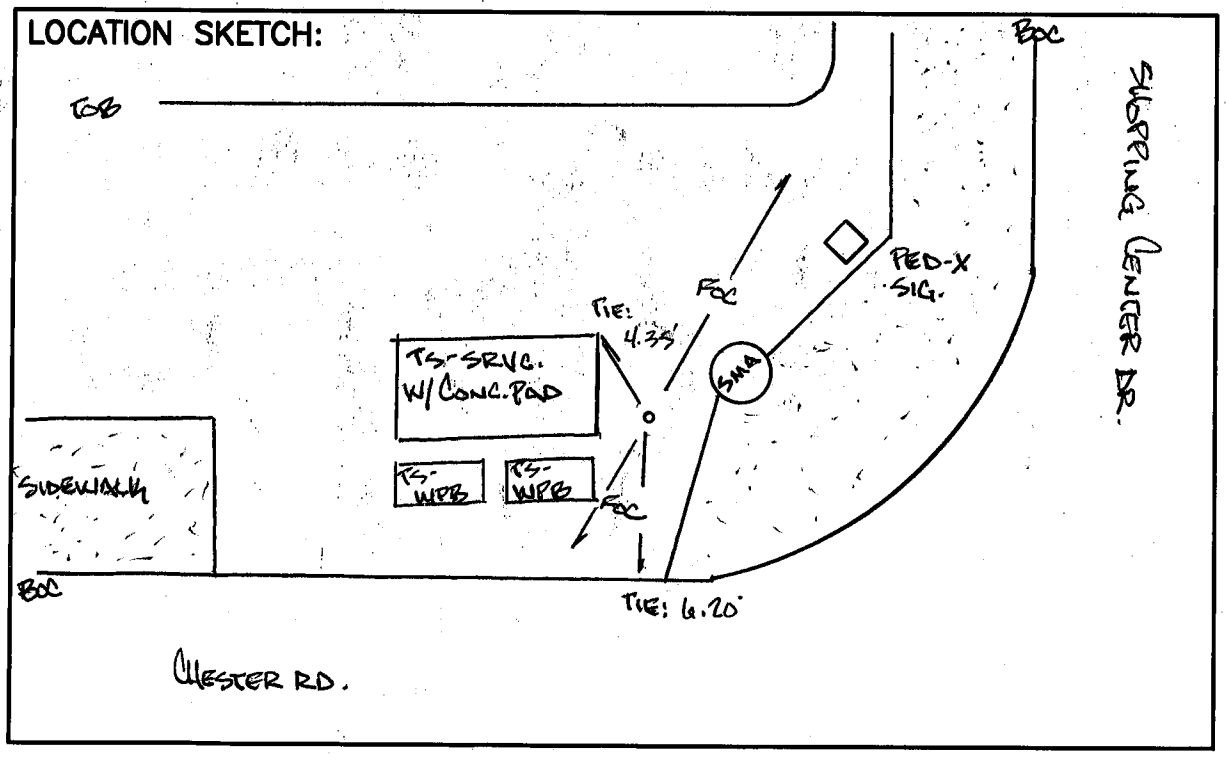
POLE #: 1

EH #: 506

TYPE OF UTILITY	MATERIAL
E - ELECTRICAL	1 - STEEL
G - GAS	2 - PVC (POLYVINYL CHLORIDE)
BT - BURIED TELEPHONE	3 - DIP (DUCTILE IRON PIPE)
(FOC) - FIBER OPTIC CABLE	4 - VCP (VITRIFIED CLAY PIPE)
W - WATER	5 - PEP (POLYETHYLENE PIPE)
SAN - SANITARY SEWER	6 - AC(ASBESTOS C./TRANSITE)
STM - STORM SEWER	7 - CI (CAST IRON)
CATV - CABLE TELEVISION	(8) - DBC(DIRECT BURIED CABLE)
FM - FORCE MAIN	9 - CONCRETE PIPE
RW - RECLAIMED WATER	10 - CORRUGATED METAL PIPE
OTHER_____	11 - DUCT
	OTHER_____

IDENTIFIED BY	DISTANCE PULLED FROM
20 - SLEEVE	30 - EDGE OF PAVEMENT
21 - HUB/LATH	31 - BASELINE
22 - NAIL/DISK*	32 - RIGHT-OF-WAY
23 - "X" IN CONCRETE	33 - CENTERLINE
24 - SWING TIES	34 - BACK OF CURB
(25) - SIRC 5/8"**	35 - SURVEY HUB
OTHER_____	36 - "X" IN CONCRETE
*NOTE: 22-SET NAIL AND DISK STAMPED "DRMP REF. PT."	OTHER_____
**NOTE: 25-SET IRON R&CAP STAMPED "DRMP REF. PT."	JOB UNITS: (ENGLISH) or METRIC

LOCATION SKETCH:



Offices

941 Lake Baldwin Drive
Orlando, Florida 32814
Phone: 407.896.0594
Fax: 407.896.4836

Boca Raton, FL
Charlotte, NC
Chipley, FL
Columbia, SC
Lakeland, FL
Gainesville, FL
Jacksonville, FL
Panama City Beach, FL
Pensacola, FL
Tallahassee, FL
Tampa, FL

www.drmp.com

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CHESTER RD.

DRMP # 16-0210.001



VVH 501

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



VVH 501

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



VVH 501

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

DRMP
ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS

CAMERA #: 4

VACUUM EXCAVATION RECORD

PROJECT: CHESTER RD. / S.M.A.

DATE: 10.19.2020

CREW: I. DUNHAM, I. JASMIN, B. ORDURKE

CITY/COUNTY: NASSAU

ONE-CALL #: 286004998

FPN/DRMP #:

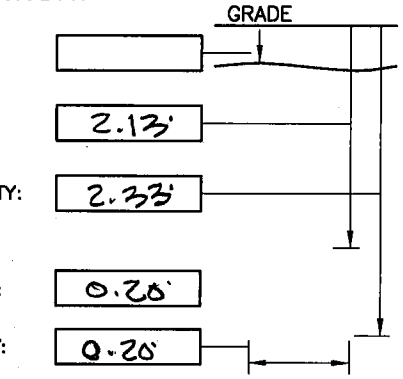
HOLE #: VAC*S02

UTILITY FOUND: BC 2" PVC - (TRAFFIC CONTROL)

GROUND: ASPHALT CONCRETE (DIRT) OTHER

SOIL CONDITION: HARD (SOFT) WET (DRY) (SAND) DIRT CLAY ROCKY

VERTICAL INFORMATION:



PAVING THICKNESS:	
DEPTH TO TOP OF UTILITY:	2.13'
DEPTH TO BOTTOM OF UTILITY:	2.33'
EXPECTED WIDTH OF UTILITY:	0.20'
MEASURED WIDTH OF UTILITY:	0.20'

ELEV. AT GRADE:	ELEV. AT TOP:	ELEV. AT BOTTOM:
[redacted]	27.76'	[redacted]

APPROX. STATION:	OFFSET DISTANCE:	OFFSET DIRECTION:	UTILITY DIRECTION:
			E+W

NORTHING:	EASTING:	STATE PLANE ZONE:
[redacted] 485.74	484087.66	[redacted] F

UTILITY/CONTRACTOR LOCATOR CONTACT: F. DOT

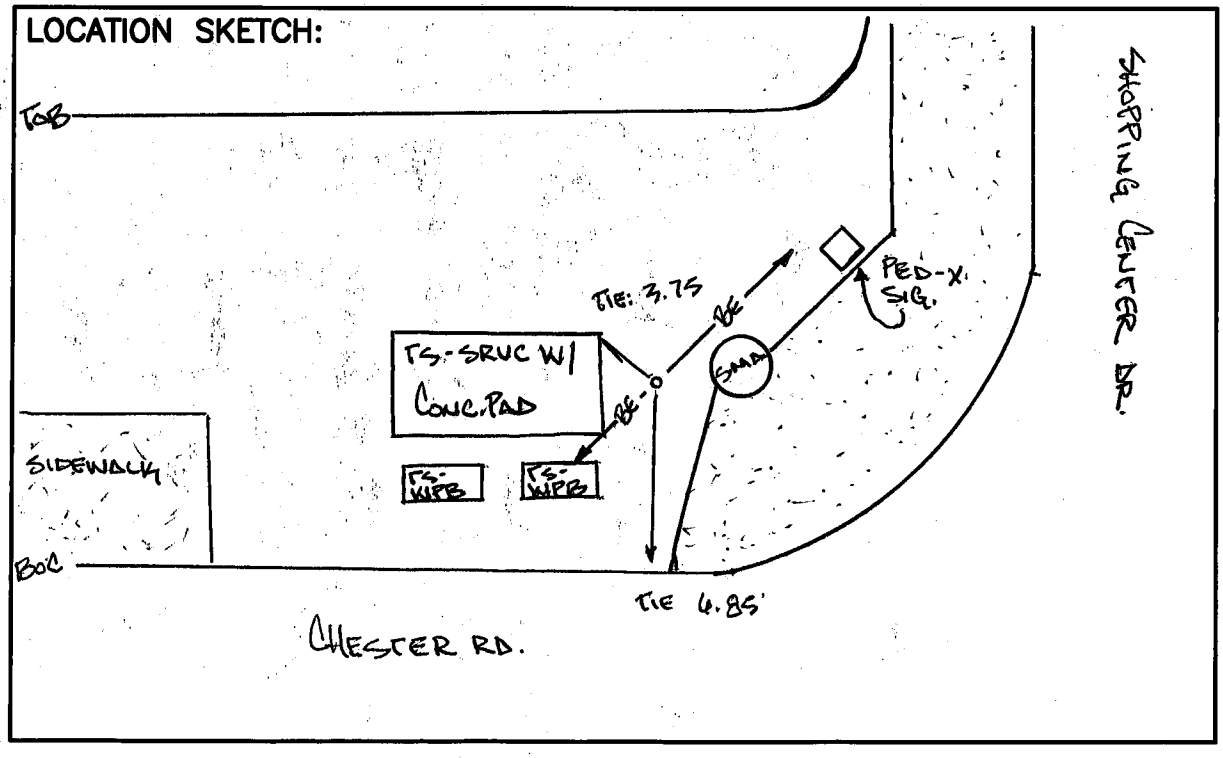
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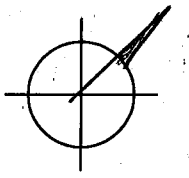
EH #: S06

TYPE OF UTILITY	MATERIAL
(E) - ELECTRICAL	1 - STEEL
G - GAS	(2) - PVC (POLYVINYL CHLORIDE)
BT - BURIED TELEPHONE	3 - DIP (DUCTILE IRON PIPE)
FOC - FIBER OPTIC CABLE	4 - VCP (VITRIFIED CLAY PIPE)
W - WATER	5 - PEP (POLYETHYLENE PIPE)
SAN - SANITARY SEWER	6 - AC(ASBESTOS C./TRANSITE)
STM - STORM SEWER	7 - CI (CAST IRON)
CATV - CABLE TELEVISION	8 - DBC(DIRECT BURIED CABLE)
FM - FORCE MAIN	9 - CONCRETE PIPE
RW - RECLAIMED WATER	10 - CORRUGATED METAL PIPE
OTHER	11 - DUCT
	OTHER

IDENTIFIED BY	DISTANCE PULLED FROM
20 - SLEEVE	30 - EDGE OF PAVEMENT
21 - HUB/LATH	31 - BASELINE
22 - NAIL/DISK*	32 - RIGHT-OF-WAY
23 - "X" IN CONCRETE	33 - CENTERLINE
24 - SWING TIES	(34) BACK OF CURB
(25) - SIRC 5/8"**	35 - SURVEY HUB
OTHER	36 - "X" IN CONCRETE
*NOTE: 22-SET NAIL AND DISK STAMPED "DRMP REF. PT."	OTHER SRUC.
**NOTE: 25-SET IRON R&CAP STAMPED "DRMP REF. PT."	JOB UNITS: (ENGLISH) or METRIC

LOCATION SKETCH:





Offices

941 Lake Baldwin Drive
Orlando, Florida 32814
Phone: 407.896.0594
Fax: 407.896.4836

Boca Raton, FL
Charlotte, NC
Chipley, FL
Columbia, SC
Lakeland, FL
Gainesville, FL
Jacksonville, FL
Panama City Beach, FL
Pensacola, FL
Tallahassee, FL
Tampa, FL

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DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

CHESTER RD.

DRMP # 16-0210.001



VVH 502

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



VVH 502

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



VVH 502

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

DRMP
ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS

CAMERA #: 4

VACUUM EXCAVATION RECORD

PROJECT: CHESTER RD. / S.M.A.

DATE: 10.19.2020

CREW: I. DUNHAM, I. JASMIN B. O'ROURKE

CITY/COUNTY: NASSAU

ONE-CALL #: 286004998

FPN/DRMP #:

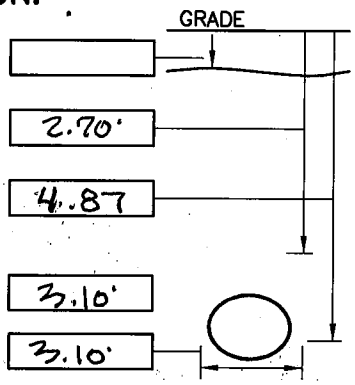
HOLE #: VVH#503

UTILITY FOUND: STORM RCP 30"x19"

GROUND: ASPHALT CONCRETE (DIRT) OTHER

SOIL CONDITION: HARD (SOFT) WET (DRY) (SAND) DIRT CLAY ROCKY

VERTICAL INFORMATION:



PAVING THICKNESS:	
DEPTH TO TOP OF UTILITY:	2.70'
DEPTH TO BOTTOM OF UTILITY:	4.87
EXPECTED WIDTH OF UTILITY:	3.10'
MEASURED WIDTH OF UTILITY:	3.10'

ELEV. AT GRADE:	ELEV. AT TOP:	ELEV. AT BOTTOM:
[redacted]	28.21'	26

APPROX. STATION:	OFFSET DISTANCE:	OFFSET DIRECTION:	UTILITY DIRECTION:
			N-S

NORTHING:	EASTING:	STATE PLANE ZONE:
[redacted] 86.95	484078.92	FL-E

UTILITY/CONTRACTOR LOCATOR CONTACT:

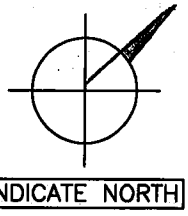
POLE #: SIG#1

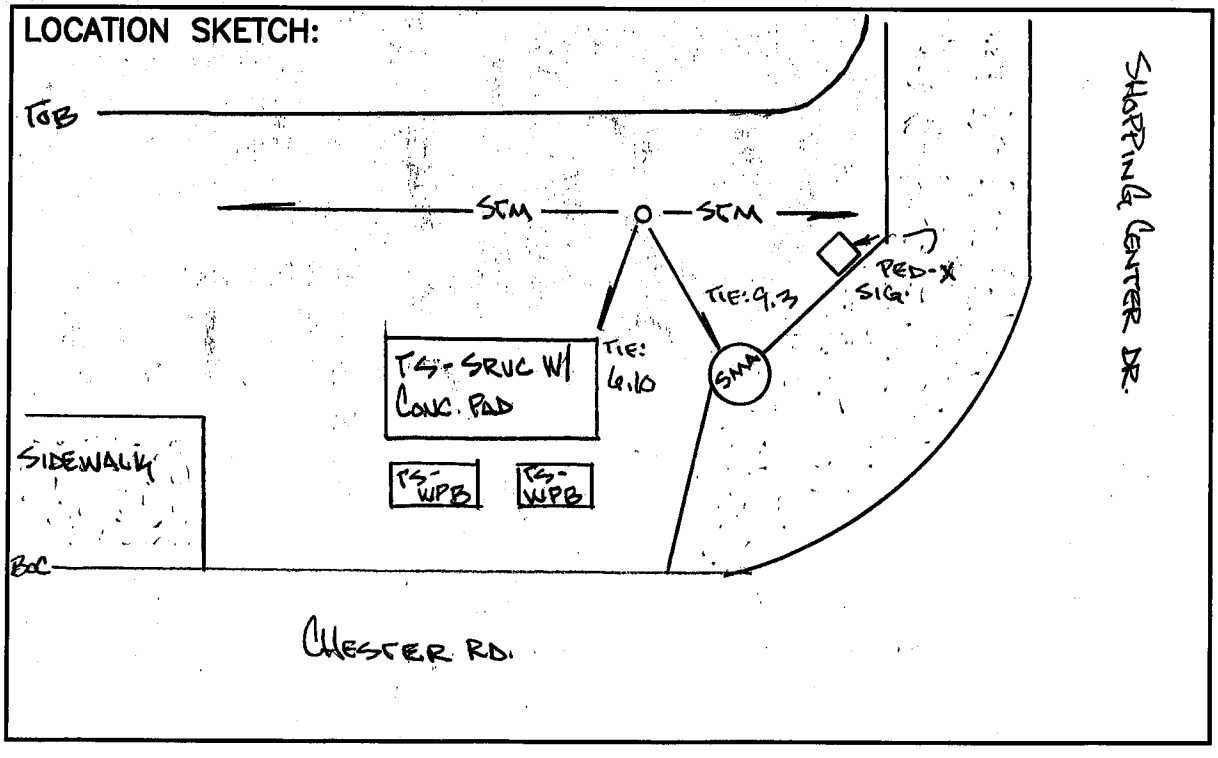
EH #: S06

TYPE OF UTILITY	MATERIAL
E - ELECTRICAL	1 - STEEL
G - GAS	2 - PVC (POLYVINYL CHLORIDE)
BT - BURIED TELEPHONE	3 - DIP (DUCTILE IRON PIPE)
FOC - FIBER OPTIC CABLE	4 - VCP (VITRIFIED CLAY PIPE)
W - WATER	5 - PEP (POLYETHYLENE PIPE)
SAN - SANITARY SEWER	6 - AC(ASBESTOS C./TRANSITE)
(STM) - STORM SEWER	7 - CI (CAST IRON)
CATV - CABLE TELEVISION	8 - DBC(DIRECT BURIED CABLE)
FM - FORCE MAIN	(9) - CONCRETE PIPE
RW - RECLAIMED WATER	10 - CORRUGATED METAL PIPE
OTHER	11 - DUCT
	OTHER

IDENTIFIED BY	DISTANCE PULLED FROM
20 - SLEEVE	30 - EDGE OF PAVEMENT
21 - HUB/LATH	31 - BASELINE
22 - NAIL/DISK*	32 - RIGHT-OF-WAY
23 - "X" IN CONCRETE	33 - CENTERLINE
24 - SWING TIES	34 - BACK OF CURB
(25) - SIRC 5/8"**	35 - SURVEY HUB
OTHER	36 - "X" IN CONCRETE
*NOTE: 22-SET NAIL AND DISK STAMPED "DRMP REF. PT."	OTHER CORNER CONC. S.M.A.
**NOTE: 25-SET IRON R&CAP STAMPED "DRMP REF. PT."	JOB UNITS: (ENGLISH) or METRIC

LOCATION SKETCH:





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CHESTER RD.

DRMP # 16-0210.001



VVH 503

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DRMP
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CAMERA #: 4

VACUUM EXCAVATION RECORD

PROJECT: CHESTER RD. / S.M.A.

DATE: 10.20.2020

CREW: I. DUNHAM, I. JASMIN, B. O'ROURKE

CITY/COUNTY: NASSAU

ONE-CALL #: 286004998

FPN/DRMP #:

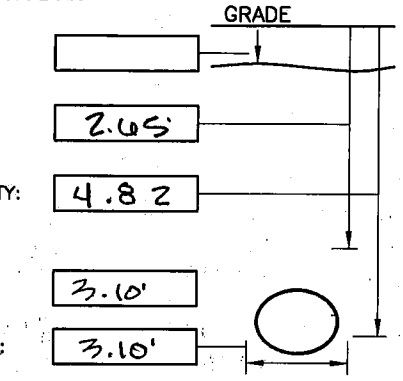
HOLE #: VVH*504

UTILITY FOUND: STORM RCP 30" x 19"

GROUND: ASPHALT CONCRETE (DIRT) OTHER

SOIL CONDITION: HARD (SOFT) WET (DRY) (SAND) DIRT CLAY ROCKY

VERTICAL INFORMATION:



PAVING THICKNESS:

DEPTH TO TOP OF UTILITY: 2.65'

DEPTH TO BOTTOM OF UTILITY: 4.82

EXPECTED WIDTH OF UTILITY: 3.10'

MEASURED WIDTH OF UTILITY: 3.10'

ELEV. AT GRADE: [redacted]

ELEV. AT TOP: 28.18'

ELEV. AT BOTTOM: 26.0

APPROX. STATION:

OFFSET DISTANCE:

OFFSET DIRECTION:

UTILITY DIRECTION: N&S

NORTHING: [redacted]

EASTING: 484077.27

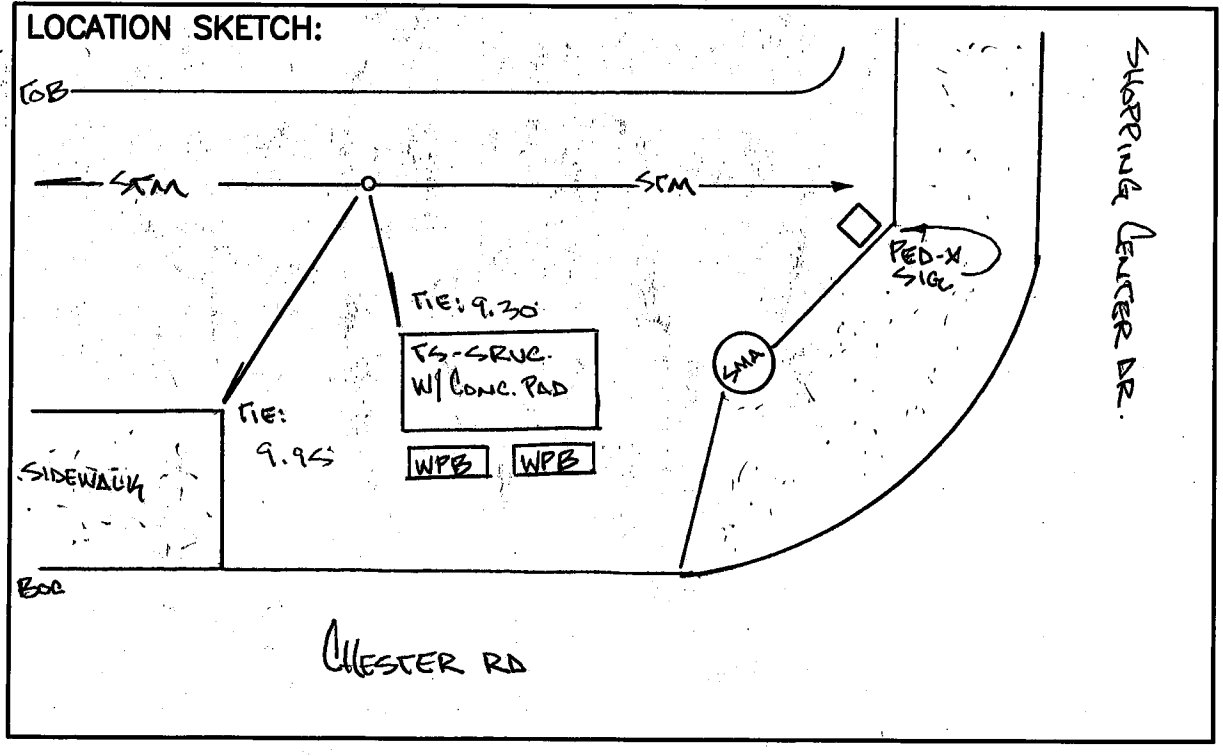
STATE PLANE ZONE: FL E

EH #: 505

TYPE OF UTILITY	MATERIAL
E - ELECTRICAL	1 - STEEL
G - GAS	2 - PVC (POLYVINYL CHLORIDE)
BT - BURIED TELEPHONE	3 - DIP (DUCTILE IRON PIPE)
FOC - FIBER OPTIC CABLE	4 - VCP (VITRIFIED CLAY PIPE)
W - WATER	5 - PEP (POLYETHYLENE PIPE)
SAN - SANITARY SEWER	6 - AC(ASBESTOS C./TRANSITE)
(STM) - STORM SEWER	7 - CI (CAST IRON)
CATV - CABLE TELEVISION	8 - DBC(DIRECT BURIED CABLE)
FM - FORCE MAIN	(9) CONCRETE PIPE
RW - RECLAIMED WATER	10 - CORRUGATED METAL PIPE
OTHER	11 - DUCT
	OTHER

IDENTIFIED BY	DISTANCE PULLED FROM
20 - SLEEVE	30 - EDGE OF PAVEMENT
21 - HUB/LATH	31 - BASELINE
22 - NAIL/DISK*	32 - RIGHT-OF-WAY
23 - "X" IN CONCRETE	33 - CENTERLINE
24 - SWING TIES	34 - BACK OF CURB
(25) - SIRC 5/8"**	35 - SURVEY HUB
OTHER	36 - "X" IN CONCRETE
*NOTE: 22-SET NAIL AND DISK STAMPED "DRMP REF. PT."	OTHER CORNER CONC.
**NOTE: 25-SET IRON R&CAP STAMPED "DRMP REF. PT."	JOB UNITS: (ENGLISH) or METRIC

LOCATION SKETCH:



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CAMERA #: 4

VACUUM EXCAVATION RECORD

PROJECT: CHESTER RD. / S.M.A

DATE: 10.21.2020

CREW: I. DUNHAM, B. ORourke, I. JASMIN

CITY/COUNTY: NASSAU

ONE-CALL #:

FPN/DRMP #:

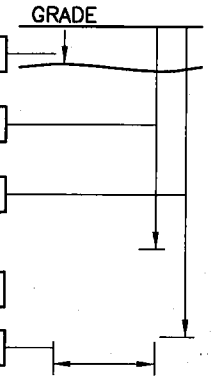
HOLE #: VVH*505

UTILITY FOUND: FOC 1 3/4" P.E.

GROUND: ASPHALT CONCRETE (DIRT) OTHER

SOIL CONDITION: HARD (SOFT) WET (DRY) (SAND) DIRT CLAY ROCKY

VERTICAL INFORMATION:



PAVING THICKNESS:	
DEPTH TO TOP OF UTILITY:	2.50'
DEPTH TO BOTTOM OF UTILITY:	2.67'
EXPECTED WIDTH OF UTILITY:	0.17
MEASURED WIDTH OF UTILITY:	0.17

ELEV. AT GRADE:	ELEV. AT TOP:	ELEV. AT BOTTOM:
[redacted]	27.08'	26.9

APPROX. STATION:	OFFSET DISTANCE:	OFFSET DIRECTION:	UTILITY DIRECTION:
			E+W

NORTHING:	EASTING:	STATE PLANE ZONE:
[redacted] 63.75	484194.52	FL-E

UTILITY/CONTRACTOR LOCATOR CONTACT: AT&T

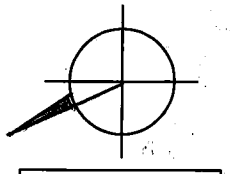
POLE #: SIGN

EH #: 507

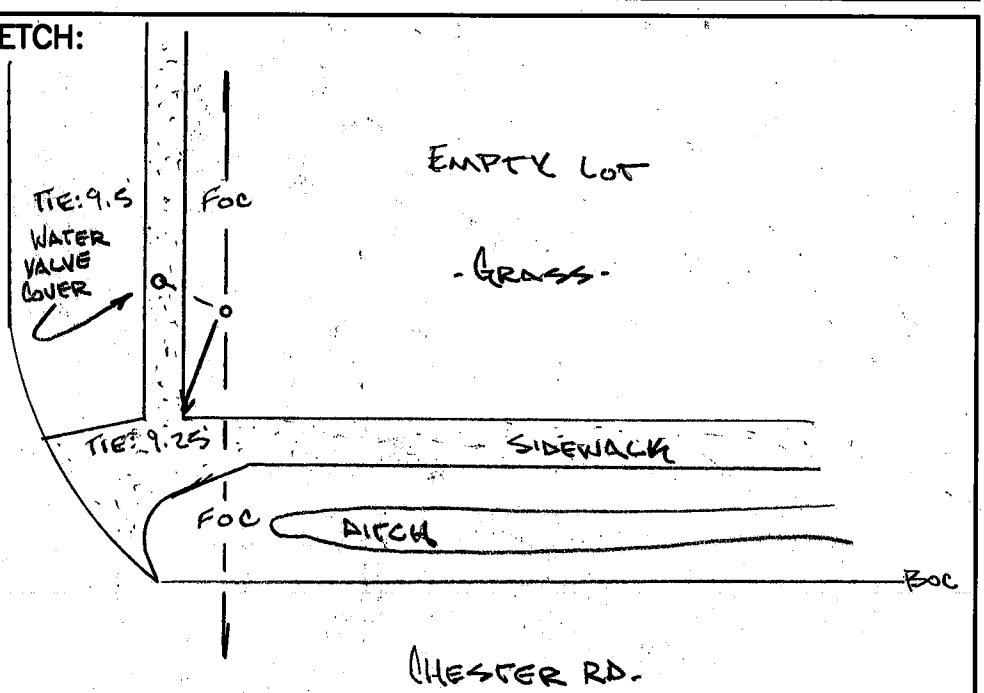
TYPE OF UTILITY	MATERIAL
E - ELECTRICAL	1 - STEEL
G - GAS	2 - PVC (POLYVINYL CHLORIDE)
BT - BURIED TELEPHONE	3 - DIP (DUCTILE IRON PIPE)
(FOC) - FIBER OPTIC CABLE	4 - VCP (VITRIFIED CLAY PIPE)
W - WATER	(5) - PEP (POLYETHYLENE PIPE)
SAN - SANITARY SEWER	6 - AC(ASBESTOS C./TRANSITE)
STM - STORM SEWER	7 - CI (CAST IRON)
CATV - CABLE TELEVISION	8 - DBC(DIRECT BURIED CABLE)
FM - FORCE MAIN	9 - CONCRETE PIPE
RW - RECLAIMED WATER	10 - CORRUGATED METAL PIPE
OTHER_____	11 - DUCT
	OTHER_____

IDENTIFIED BY	DISTANCE PULLED FROM
20 - SLEEVE	30 - EDGE OF PAVEMENT
21 - HUB/LATH	31 - BASELINE
22 - NAIL/DISK*	32 - RIGHT-OF-WAY
23 - "X" IN CONCRETE	33 - CENTERLINE
24 - SWING TIES	34 - BACK OF CURB
(25) - SIRC 5/8"**	35 - SURVEY HUB
OTHER_____	36 - "X" IN CONCRETE
*NOTE: 22-SET NAIL AND DISK STAMPED "DRMP REF. PT."	OTHER & VALVE COVER CORNER CONC.
**NOTE: 25-SET IRON R&CAP STAMPED "DRMP REF. PT."	JOB UNITS: (ENGLISH) or METRIC

LOCATION SKETCH:



INDICATE NORTH



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CHESTER RD.

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VVH 505

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VACUUM EXCAVATION RECORD

CAMERA #: 5

CREW: HIRES, JASMIN, O'ROURKE

PROJECT: CHESTER RD.

DATE: 11/24/20

DRMP#: 16-0210.001

CITY/COUNTY: NASSAU

ONE-CALL #: 329000666

F.P.N.#:

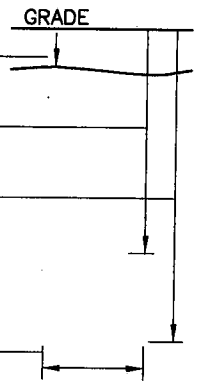
HOLE#: VVH 506

UTILITY FOUND: BT- 1/2"-DBC (RUNNING W/ WM-VVH 507)

GROUND: ASPHALT CONCRETE (DIRT) OTHER

SOIL CONDITION: HARD (SOFT) (WET) DRY (SAND) (DIRT) CLAY ROCKY

VERTICAL INFORMATION:



PAVING THICKNESS:	0'
DEPTH TO TOP OF UTILITY:	2.30'
DEPTH TO BOTTOM OF UTILITY:	2.34'
EXPECTED WIDTH OF UTILITY:	N/A
MEASURED WIDTH OF UTILITY:	0.64'

ELEV. AT GRADE:	ELEV. AT TOP:	ELEV. AT BOTTOM:
[redacted]	25.19'	[redacted]

APPROX. STATION:	OFFSET DISTANCE:	OFFSET DIRECTION:	UTILITY DIRECTION:
[redacted]	29.74'	[redacted]	SW — NE

NORTHING:	EASTING:	STATE PLANE ZONE:

UTILITY OWNER/CONTRACTOR LOCATOR CONTACT: AT+T

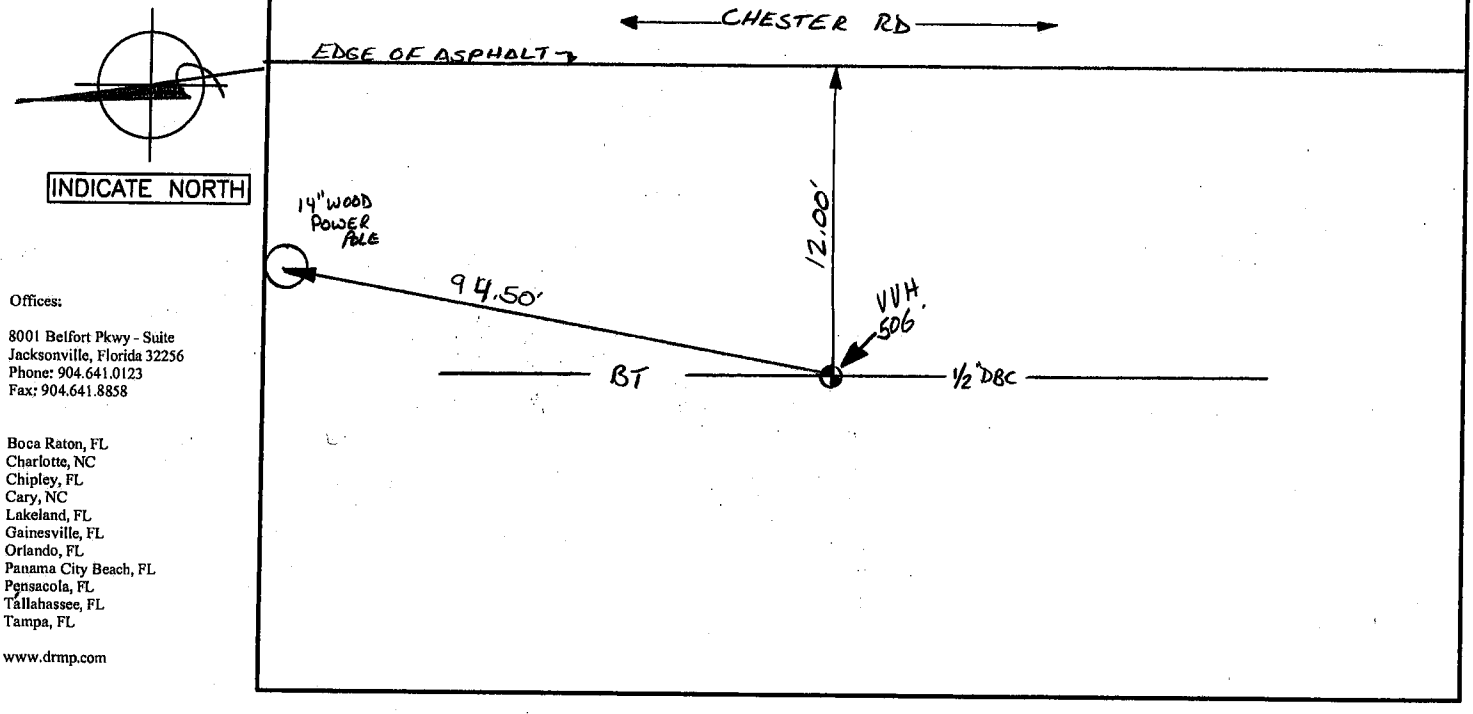
POLE #: N/A

EH #: N/A

TYPE OF UTILITY	MATERIAL
E - ELECTRICAL	1 - STEEL
G - GAS	2 - PVC (POLYVINYL CHLORIDE)
(BT) - BURIED TELEPHONE	3 - DIP (DUCTILE IRON PIPE)
FOC - FIBER OPTIC CABLE	4 - VCP (VITRIFIED CLAY PIPE)
W - WATER	5 - PEP (POLYETHYLENE PIPE)
SAN - SANITARY SEWER	6 - AC(ASBESTOS C./TRANSITE)
STM - STORM SEWER	7 - CI (CAST IRON)
CATV - CABLE TELEVISION	(8) DBC(DIRECT BURIED CABLE)
FM - FORCE MAIN	9 - CONCRETE PIPE
RW - RECLAIMED WATER	10 - CORRUGATED METAL PIPE
OTHER_____	11 - DUCT
	OTHER_____

IDENTIFIED BY	DISTANCE PULLED FROM
20 - SLEEVE	(30) EDGE OF PAVEMENT
21 - HUB/LATH	31 - BASELINE
22 - NAIL/DISK*	32 - RIGHT-OF-WAY
23 - "X" IN CONCRETE	33 - CENTERLINE
24 - SWING TIES	34 - BACK OF CURB
(25) - SIRC 5/8"**	35 - SURVEY HUB
OTHER_____	36 - "X" IN CONCRETE
*NOTE: 22-SET NAIL AND DISK STAMPED "DRMP REF. PT."	(OTHER) POWER POLE
**NOTE: 25-SET IRON R&CAP STAMPED "DRMP REF. PT."	JOB UNITS: (ENGLISH) or METRIC

LOCATION SKETCH: 250' NE OF PAIGES DAIRY RD.



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VVH 506

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VACUUM EXCAVATION RECORD

CAMERA #: 5 | CREW: HIRES, JASMIN, O'ROURKE

PROJECT: CHESTER RD | DATE: 11/24/20 | DRMP#: 16-0210.001

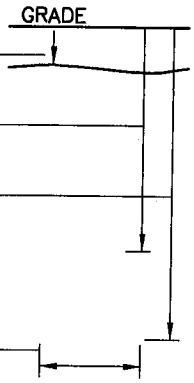
CITY/COUNTY: NASSAU | ONE-CALL #: 329000666 | F.P.N.#:

HOLE#: WH 507 | UTILITY FOUND: WM - 18"-PVC

GROUND: ASPHALT CONCRETE (DIRT) OTHER

SOIL CONDITION: (HARD) (SOFT) (WET) (DRY) (SAND) (DIRT) CLAY ROCKY

VERTICAL INFORMATION:



PAVING THICKNESS:	0'
DEPTH TO TOP OF UTILITY:	2.30
DEPTH TO BOTTOM OF UTILITY:	3.80"
EXPECTED WIDTH OF UTILITY:	N/A
MEASURED WIDTH OF UTILITY:	1.50'

ELEV. AT GRADE:	ELEV. AT TOP:	ELEV. AT BOTTOM:
[redacted]	25.23'	[redacted]

APPROX. STATION:	OFFSET DISTANCE:	OFFSET DIRECTION:	UTILITY DIRECTION:
[redacted]	29.16'		SW-NE

NORTHING:	EASTING:	STATE PLANE ZONE:

UTILITY OWNER/CONTRACTOR LOCATOR CONTACT: JEA

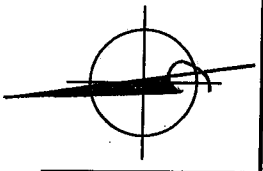
POLE #: N/A

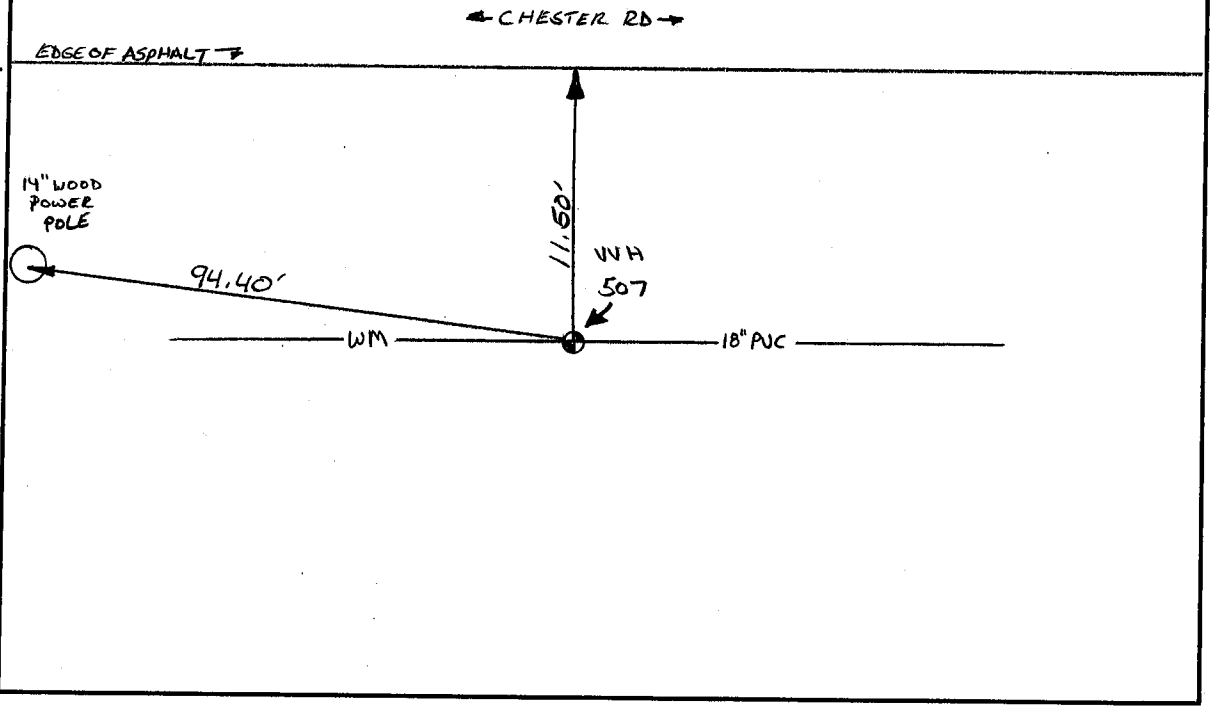
EH #: N/A

TYPE OF UTILITY	MATERIAL
E - ELECTRICAL	1 - STEEL
G - GAS	(2) - PVC (POLYVINYL CHLORIDE)
BT - BURIED TELEPHONE	3 - DIP (DUCTILE IRON PIPE)
FOC - FIBER OPTIC CABLE	4 - VCP (VITRIFIED CLAY PIPE)
(W) - WATER	5 - PEP (POLYETHYLENE PIPE)
SAN - SANITARY SEWER	6 - AC(ASBESTOS C./TRANSITE)
STM - STORM SEWER	7 - CI (CAST IRON)
CATV - CABLE TELEVISION	8 - DBC(DIRECT BURIED CABLE)
FM - FORCE MAIN	9 - CONCRETE PIPE
RW - RECLAIMED WATER	10 - CORRUGATED METAL PIPE
OTHER_____	11 - DUCT
	OTHER_____

IDENTIFIED BY	DISTANCE PULLED FROM
20 - SLEEVE	(30) - EDGE OF PAVEMENT
21 - HUB/LATH	31 - BASELINE
22 - NAIL/DISK*	32 - RIGHT-OF-WAY
23 - "X" IN CONCRETE	33 - CENTERLINE
24 - SWING TIES	34 - BACK OF CURB
(25) - SIRC 5/8"**	35 - SURVEY HUB
OTHER_____	36 - "X" IN CONCRETE
*NOTE: 22-SET NAIL AND DISK STAMPED "DRMP REF. PT."	(OTHER) POWER POLE
**NOTE: 25-SET IRON R&CAP STAMPED "DRMP REF. PT."	JOB UNITS: (ENGLISH) or METRIC

LOCATION SKETCH: 250' NW OF PAIGES DAIRY RD





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VACUUM EXCAVATION RECORD

CAMERA #: 5

CREW: HIRES, JASMIN, O'ROURKE

PROJECT: CHESTER RD

DATE: 11/24/20

DRMP#: 16-0210.001

CITY/COUNTY: NASSAU

ONE-CALL #: 329000666

F.P.N.#:

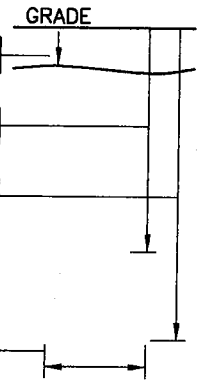
HOLE#: VVH 508

UTILITY FOUND: FM - 12"+/- PVC (WAS UNDER 1.00' OF MUD COULD NOT SEE PIPE)

GROUND: ASPHALT CONCRETE (DIRT) OTHER

SOIL CONDITION: (HARD) (SOFT) (WET) (DRY) (SAND) (DIRT) CLAY ROCKY

VERTICAL INFORMATION:



PAVING THICKNESS:	0'
DEPTH TO TOP OF UTILITY:	4.57'
DEPTH TO BOTTOM OF UTILITY:	5.65'
EXPECTED WIDTH OF UTILITY:	N/A
MEASURED WIDTH OF UTILITY:	1.08'

ELEV. AT GRADE:	ELEV. AT TOP:	ELEV. AT BOTTOM:
[redacted]	22.16'	[redacted]

APPROX. STATION:	OFFSET DISTANCE:	OFFSET DIRECTION:	UTILITY DIRECTION:
[redacted] 63.66	23.74'	[redacted]	SW — NE

NORTHING:	EASTING:	STATE PLANE ZONE:

UTILITY OWNER/CONTRACTOR LOCATOR CONTACT: JEA

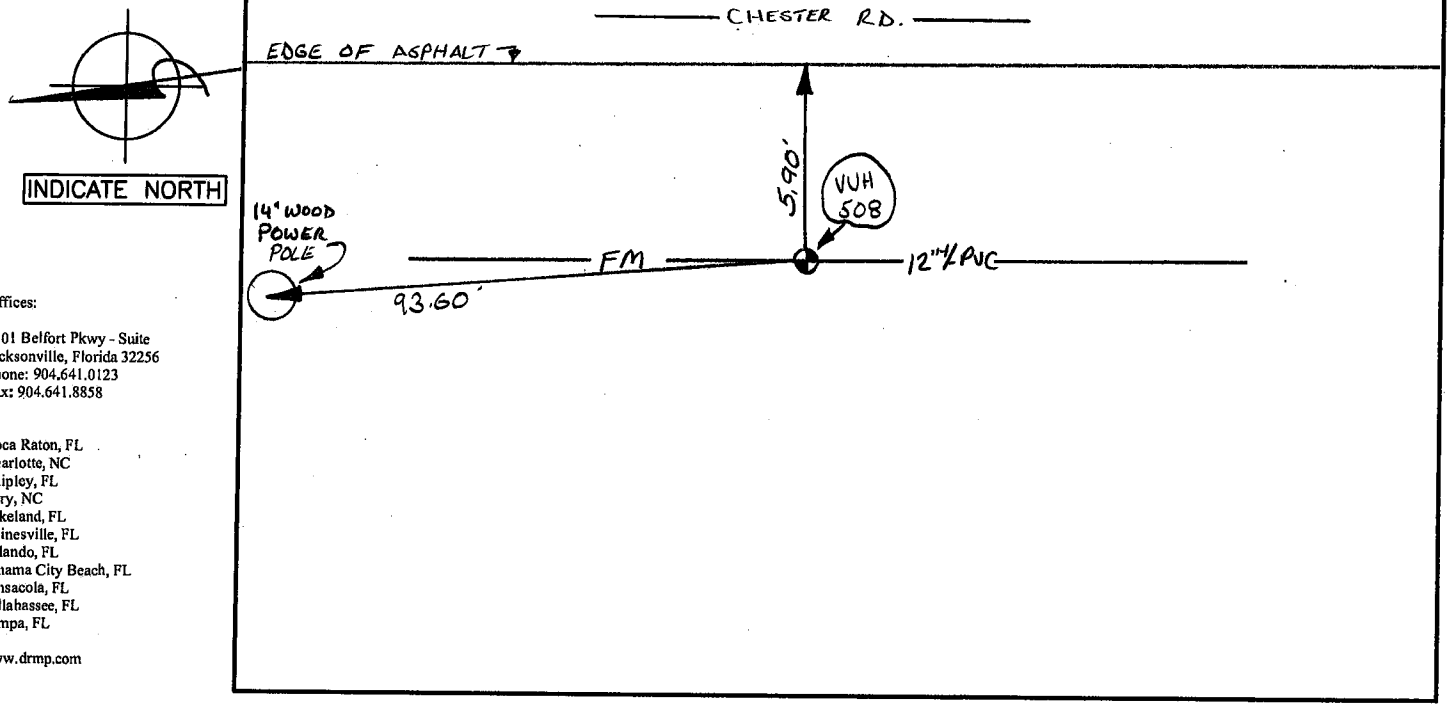
POLE #: N/A

EH #: N/A

TYPE OF UTILITY	MATERIAL
E - ELECTRICAL	1 - STEEL
G - GAS	(2) - PVC (POLYVINYL CHLORIDE)
BT - BURIED TELEPHONE	3 - DIP (DUCTILE IRON PIPE)
FOC - FIBER OPTIC CABLE	4 - VCP (VITRIFIED CLAY PIPE)
W - WATER	5 - PEP (POLYETHYLENE PIPE)
SAN - SANITARY SEWER	6 - AC (ASBESTOS C./TRANSITE)
STM - STORM SEWER	7 - CI (CAST IRON)
CATV - CABLE TELEVISION	8 - DBC (DIRECT BURIED CABLE)
(FM) - FORCE MAIN	9 - CONCRETE PIPE
RW - RECLAIMED WATER	10 - CORRUGATED METAL PIPE
OTHER_____	11 - DUCT
	OTHER_____

IDENTIFIED BY	DISTANCE PULLED FROM
20 - SLEEVE	(30) - EDGE OF PAVEMENT
21 - HUB/LATH	31 - BASELINE
22 - NAIL/DISK*	32 - RIGHT-OF-WAY
23 - "X" IN CONCRETE	33 - CENTERLINE
24 - SWING TIES	34 - BACK OF CURB
(25) - SIRC 5/8"**	35 - SURVEY HUB
OTHER_____	36 - "X" IN CONCRETE
*NOTE: 22 - SET NAIL AND DISK STAMPED "DRMP REF. PT."	(OTHER) POWER POLE
**NOTE: 25 - SET IRON R&CAP STAMPED "DRMP REF. PT."	JOB UNITS: (ENGLISH) or METRIC

LOCATION SKETCH: 250' NE OF PAIGES DAIRY RD.



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CHESTER RD.

DRMP # 16-0210.001



VVH 508

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VVH 508

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VACUUM EXCAVATION RECORD

CAMERA #: 5

CREW: HIRES, JASMIN, O'ROURKE

PROJECT: CHESTER RD

DATE: 11/24/20

DRMP#: 16-0210.001

CITY/COUNTY: NASSAU

ONE-CALL #: 329000666

F.P.N.#:

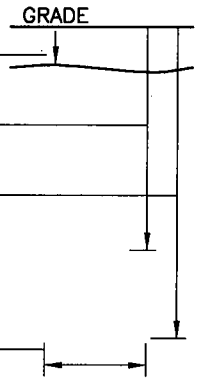
HOLE#: VH 509

UTILITY FOUND: BT- 1/2" - DBC

GROUND: ASPHALT CONCRETE (DIRT) OTHER

SOIL CONDITION: (HARD) (SOFT) (WET) (DRY) (SAND) (DIRT) CLAY ROCKY

VERTICAL INFORMATION:



PAVING THICKNESS:	0'
DEPTH TO TOP OF UTILITY:	2.96'
DEPTH TO BOTTOM OF UTILITY:	3.00'
EXPECTED WIDTH OF UTILITY:	0'
MEASURED WIDTH OF UTILITY:	0.04'

ELEV. AT GRADE:	ELEV. AT TOP:	ELEV. AT BOTTOM:
[redacted]	24.05'	24

APPROX. STATION:	OFFSET DISTANCE:	OFFSET DIRECTION:	UTILITY DIRECTION:
[redacted] 91.05	30.01'	[redacted]	SW - NE

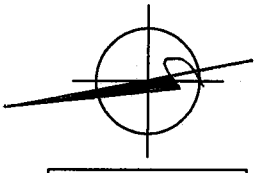
NORTHING:	EASTING:	STATE PLANE ZONE:

UTILITY OWNER/CONTRACTOR LOCATOR CONTACT:	POLE #:	EH #:
AT&T	N/A	N/A

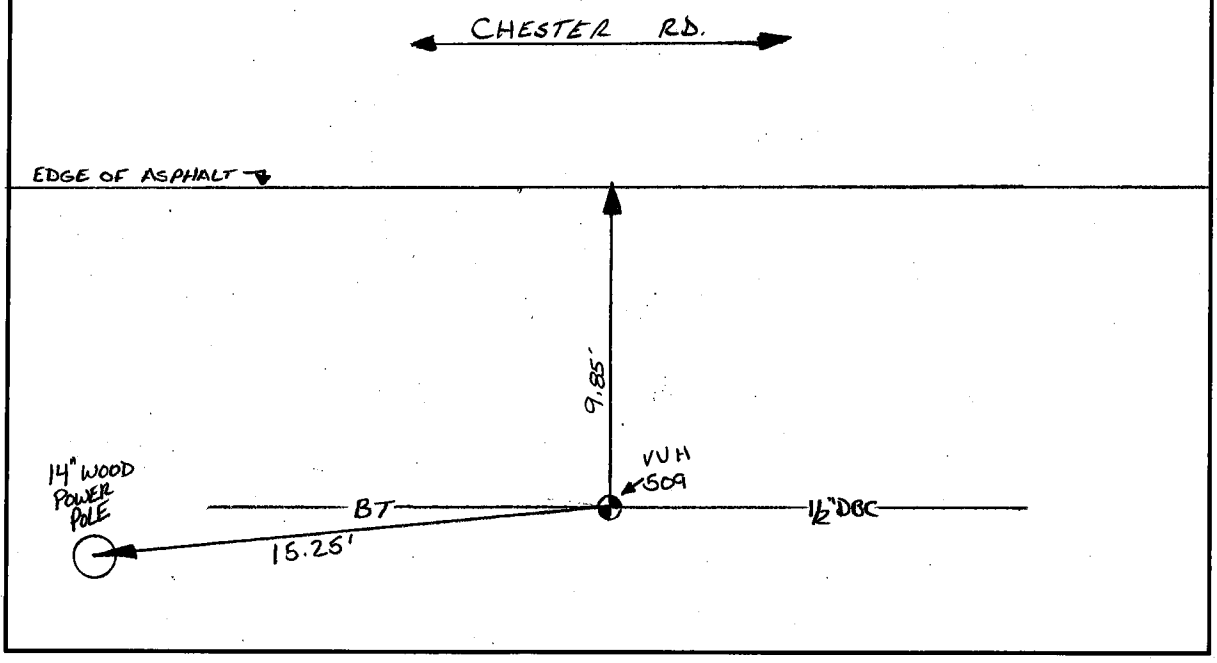
TYPE OF UTILITY	MATERIAL
E - ELECTRICAL	1 - STEEL
G - GAS	2 - PVC (POLYVINYL CHLORIDE)
(BT) - BURIED TELEPHONE	3 - DIP (DUCTILE IRON PIPE)
FOC - FIBER OPTIC CABLE	4 - VCP (VITRIFIED CLAY PIPE)
W - WATER	5 - PEP (POLYETHYLENE PIPE)
SAN - SANITARY SEWER	6 - AC(ASBESTOS C./TRANSITE)
STM - STORM SEWER	7 - CI (CAST IRON)
CATV - CABLE TELEVISION	(8) - DBC(DIRECT BURIED CABLE)
FM - FORCE MAIN	9 - CONCRETE PIPE
RW - RECLAIMED WATER	10 - CORRUGATED METAL PIPE
OTHER_____	11 - DUCT
	OTHER_____

IDENTIFIED BY	DISTANCE PULLED FROM
20 - SLEEVE	(30) - EDGE OF PAVEMENT
21 - HUB/LATH	31 - BASELINE
22 - NAIL/DISK*	32 - RIGHT-OF-WAY
23 - "X" IN CONCRETE	33 - CENTERLINE
24 - SWING TIES	34 - BACK OF CURB
(25) - SIRC 5/8"**	35 - SURVEY HUB
OTHER_____	36 - "X" IN CONCRETE
*NOTE: 22-SET NAIL AND DISK STAMPED "DRMP REF. PT."	(OTHER) POWER POLE
**NOTE: 25-SET IRON R&CAP STAMPED "DRMP REF. PT."	JOB UNITS: (ENGLISH) or METRIC

LOCATION SKETCH: 150' NE OF PAIGES DAIRY



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CHESTER RD.

DRMP # 16-0210.001



VVH 509

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VVH 509

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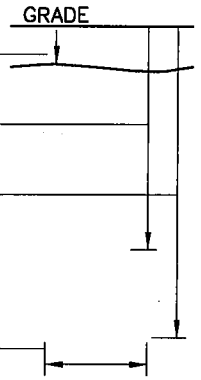
VACUUM EXCAVATION RECORD

CAMERA #: 5	CREW: HIRES, JASMIN, O'ROURKE	
PROJECT: CHESTER RD	DATE: 11/24/20	DRMP#: 16-0210.001
CITY/COUNTY: NASSAU	ONE-CALL #: 329000666	F.P.N.#:
HOLE#: VUH 510	UTILITY FOUND: WM – 18" – PVC	

GROUND: ASPHALT CONCRETE (DIRT) OTHER

SOIL CONDITION: (HARD) (SOFT) (WET) (DRY) (SAND) (DIRT) CLAY ROCKY

VERTICAL INFORMATION:



PAVING THICKNESS:	0'
DEPTH TO TOP OF UTILITY:	2.75'
DEPTH TO BOTTOM OF UTILITY:	4.25'
EXPECTED WIDTH OF UTILITY:	N/A
MEASURED WIDTH OF UTILITY:	1.60'

ELEV. AT GRADE:	ELEV. AT TOP:	ELEV. AT BOTTOM:
[redacted]	23.73'	[redacted]

APPROX. STATION:	OFFSET DISTANCE:	OFFSET DIRECTION:	UTILITY DIRECTION:
[redacted]	28.77'	[redacted]	SW — NE

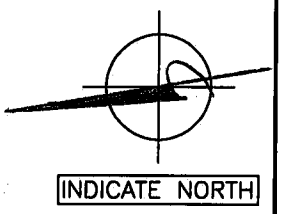
NORTHING:	EASTING:	STATE PLANE ZONE:

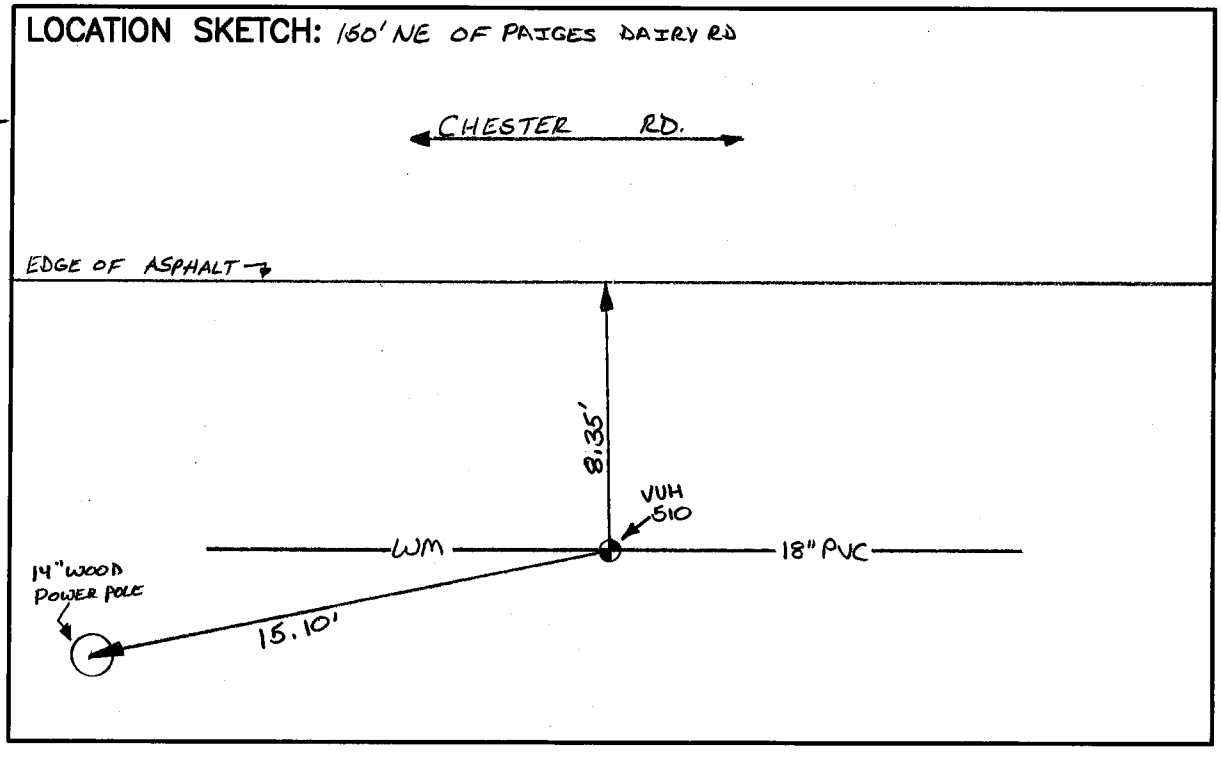
UTILITY OWNER/CONTRACTOR LOCATOR CONTACT:	POLE #:	EH #:
JEA	N/A	N/A

TYPE OF UTILITY	MATERIAL
E - ELECTRICAL	1 - STEEL
G - GAS	(2) - PVC (POLYVINYL CHLORIDE)
BT - BURIED TELEPHONE	3 - DIP (DUCTILE IRON PIPE)
FOC - FIBER OPTIC CABLE	4 - VCP (VITRIFIED CLAY PIPE)
(W) - WATER	5 - PEP (POLYETHYLENE PIPE)
SAN - SANITARY SEWER	6 - AC(ASBESTOS C./TRANSITE)
STM - STORM SEWER	7 - CI (CAST IRON)
CATV - CABLE TELEVISION	8 - DBC(DIRECT BURIED CABLE)
FM - FORCE MAIN	9 - CONCRETE PIPE
RW - RECLAIMED WATER	10 - CORRUGATED METAL PIPE
OTHER_____	11 - DUCT
	OTHER_____

IDENTIFIED BY	DISTANCE PULLED FROM
20 - SLEEVE	(30) - EDGE OF PAVEMENT
21 - HUB/LATH	31 - BASELINE
22 - NAIL/DISK*	32 - RIGHT-OF-WAY
23 - "X" IN CONCRETE	33 - CENTERLINE
24 - SWING TIES	34 - BACK OF CURB
(25) - SIRC 5/8"**	35 - SURVEY HUB
OTHER_____	36 - "X" IN CONCRETE
*NOTE: 22-SET NAIL AND DISK STAMPED "DRMP REF. PT."	OTHER POWER POLE
**NOTE: 25-SET IRON R&CAP STAMPED "DRMP REF. PT."	JOB UNITS: (ENGLISH) or METRIC

LOCATION SKETCH: 160' NE OF PAIGES DAIRY RD





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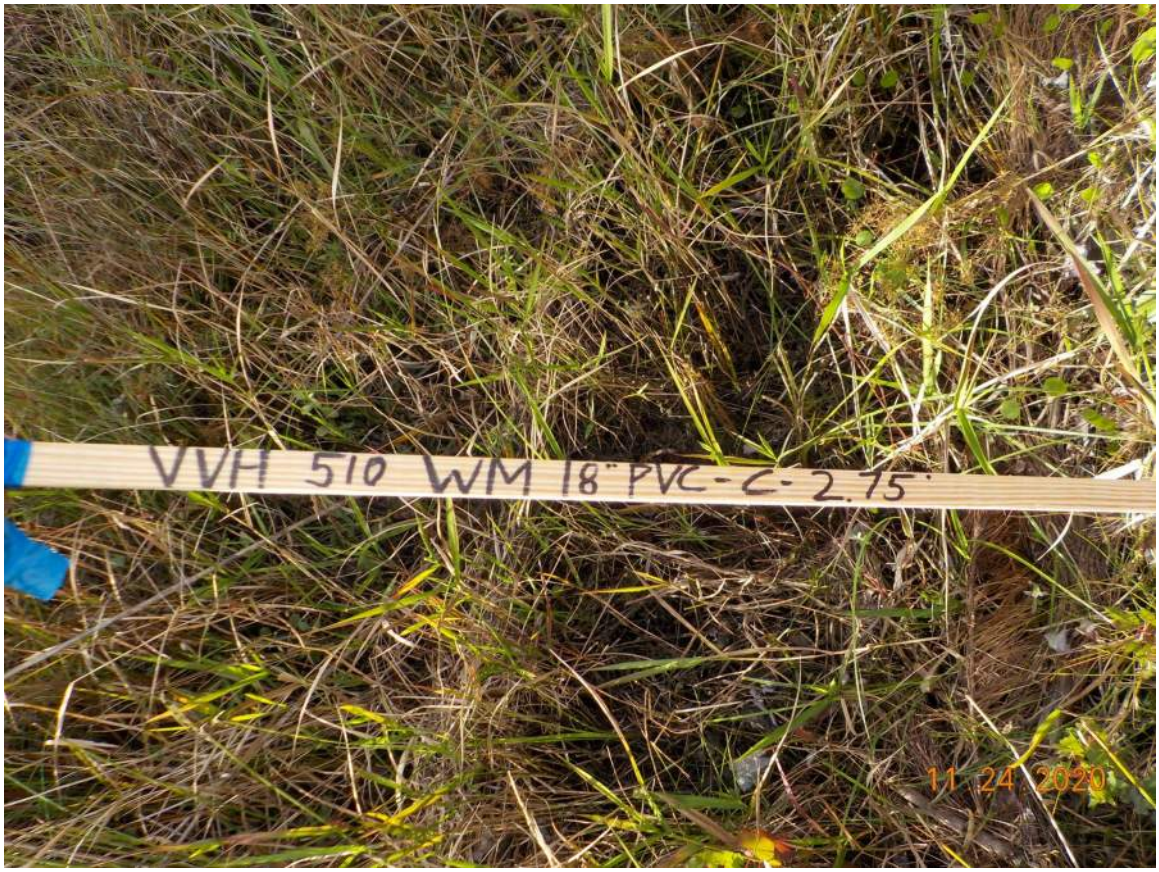
CHESTER RD.

DRMP # 16-0210.001



VVH 510

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VVH 510

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VACUUM EXCAVATION RECORD

CAMERA #: 5

CREW: HIRES, JASMIN, O'ROURKE

PROJECT: CHESTER RD.

DATE: 11/25/20

DRMP#: 16-0210.001

CITY/COUNTY: NASSAU

ONE-CALL #: 329000666

F.P.N.#:

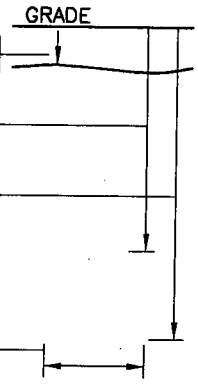
HOLE#: VH511

UTILITY FOUND: FM- 12"- PVC

GROUND: ASPHALT CONCRETE (DIRT) OTHER

SOIL CONDITION: (HARD) (SOFT) (WET) (DRY) (SAND) (DIRT) CLAY ROCKY

VERTICAL INFORMATION:



PAVING THICKNESS:	0'
DEPTH TO TOP OF UTILITY:	2.45'
DEPTH TO BOTTOM OF UTILITY:	3.53'
EXPECTED WIDTH OF UTILITY:	N/A
MEASURED WIDTH OF UTILITY:	1.08

ELEV. AT GRADE:	ELEV. AT TOP:	ELEV. AT BOTTOM
[redacted]	25.02'	23

APPROX. STATION:	OFFSET DISTANCE:	OFFSET DIRECTION:	UTILITY DIRECTION:
[redacted] 14.55	31.32'	RT	SW—NE

NORTHING:	EASTING:	STATE PLANE ZONE:

UTILITY OWNER/CONTRACTOR LOCATOR CONTACT: JEA

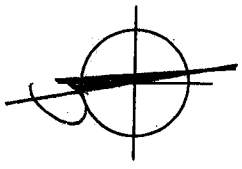
POLE #: N/A

EH #: N/A

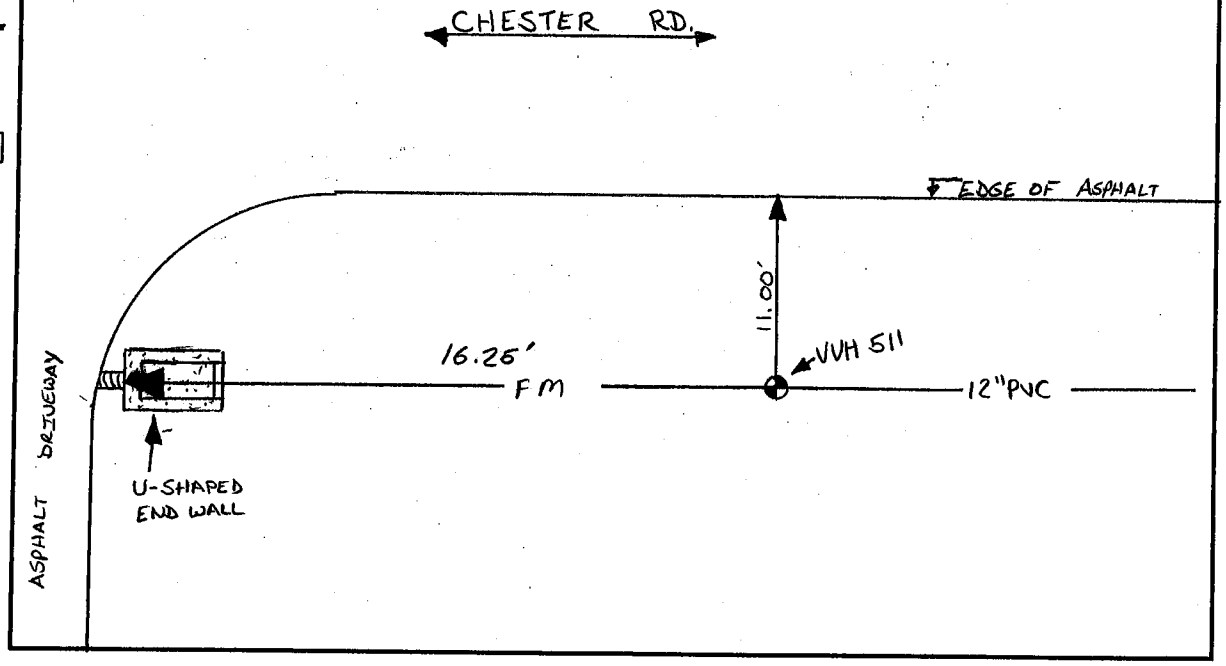
TYPE OF UTILITY	MATERIAL
E - ELECTRICAL	1 - STEEL
G - GAS	(2) PVC (POLYVINYL CHLORIDE)
BT - BURIED TELEPHONE	3 - DIP (DUCTILE IRON PIPE)
FOC - FIBER OPTIC CABLE	4 - VCP (VITRIFIED CLAY PIPE)
W - WATER	5 - PEP (POLYETHYLENE PIPE)
SAN - SANITARY SEWER	6 - AC(ASBESTOS C./TRANSITE)
STM - STORM SEWER	7 - CI (CAST IRON)
CATV - CABLE TELEVISION	8 - DBC(DIRECT BURIED CABLE)
(FM) - FORCE MAIN	9 - CONCRETE PIPE
RW - RECLAIMED WATER	10 - CORRUGATED METAL PIPE
OTHER_____	11 - DUCT
	OTHER_____

IDENTIFIED BY	DISTANCE PULLED FROM
20 - SLEEVE	(30) EDGE OF PAVEMENT
21 - HUB/LATH	31 - BASELINE
22 - NAIL/DISK*	32 - RIGHT-OF-WAY
23 - "X" IN CONCRETE	33 - CENTERLINE
24 - SWING TIES	34 - BACK OF CURB
(25) - SIRC 5/8"**	35 - SURVEY HUB
OTHER_____	36 - "X" IN CONCRETE
*NOTE: 22-SET NAIL AND DISK STAMPED "DRMP REF. PT."	(OTHER) TOP OF MITERED END SECTION
**NOTE: 25-SET IRON R&CAP STAMPED "DRMP REF. PT."	JOB UNITS: (ENGLISH) or METRIC

LOCATION SKETCH: CHESTER RD. 400' SW OF PAIGES DAIRY RD.



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CHESTER RD.

DRMP # 16-0210.001



VVH 511

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VVH 511

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VACUUM EXCAVATION RECORD

CAMERA #: 5

CREW: HIRES, JASMIN, O'ROURKE

PROJECT: CHESTER RD.

DATE: 11/25/20

DRMP#: 16-0210.001

CITY/COUNTY: NASSAU

ONE-CALL #: 329000666

F.P.N.#:

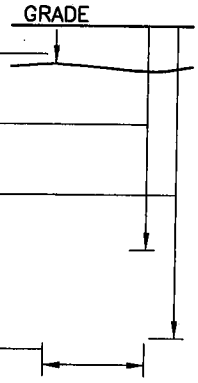
HOLE#: VVH 512

UTILITY FOUND: CATV-(2)x 2"-PE

GROUND: ASPHALT CONCRETE (DIRT) OTHER

SOIL CONDITION: (HARD) (SOFT) (WET) (DRY) (SAND) (DIRT) CLAY ROCKY

VERTICAL INFORMATION:



PAVING THICKNESS:	0'
DEPTH TO TOP OF UTILITY:	11.33'
DEPTH TO BOTTOM OF UTILITY:	11.50'
EXPECTED WIDTH OF UTILITY:	N/A
MEASURED WIDTH OF UTILITY:	0.40'

ELEV. AT GRADE:	ELEV. AT TOP:	ELEV. AT BOTTOM:
[redacted]	17.63'	17.4

APPROX. STATION:	OFFSET DISTANCE:	OFFSET DIRECTION:	UTILITY DIRECTION:
[redacted]	21.87'	RT	SW—NE

NORTHING:	EASTING:	STATE PLANE ZONE:

UTILITY OWNER/CONTRACTOR LOCATOR CONTACT: COMCAST

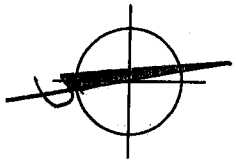
POLE #: N/A

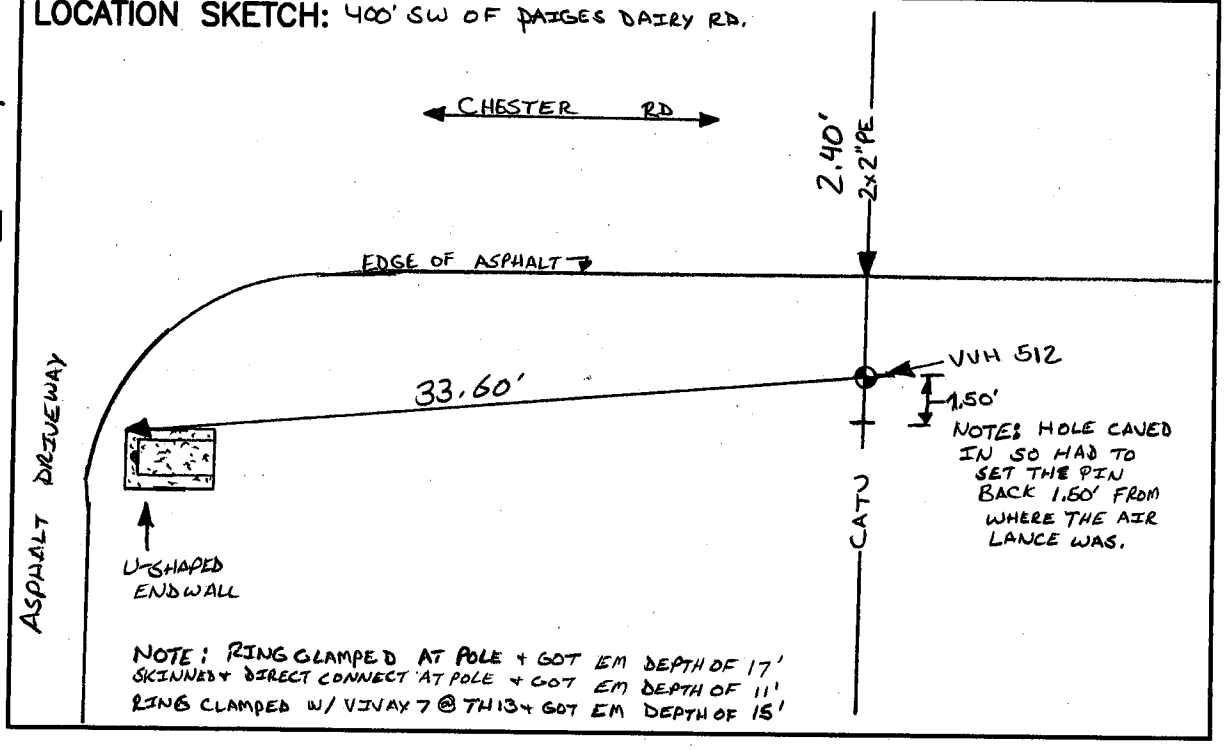
EH #: N/A

TYPE OF UTILITY		MATERIAL
E	- ELECTRICAL	1 - STEEL
G	- GAS	2 - PVC (POLYVINYL CHLORIDE)
BT	- BURIED TELEPHONE	3 - DIP (DUCTILE IRON PIPE)
FOC	- FIBER OPTIC CABLE	4 - VCP (VITRIFIED CLAY PIPE)
W	- WATER	(5) - PEP (POLYETHYLENE PIPE)
SAN	- SANITARY SEWER	6 - AC(ASBESTOS C./TRANSITE)
STM	- STORM SEWER	7 - CI (CAST IRON)
(CATV)	- CABLE TELEVISION	8 - DBC(DIRECT BURIED CABLE)
FM	- FORCE MAIN	9 - CONCRETE PIPE
RW	- RECLAIMED WATER	10 - CORRUGATED METAL PIPE
OTHER		11 - DUCT
		OTHER

IDENTIFIED BY	DISTANCE PULLED FROM
20 - SLEEVE	(30) - EDGE OF PAVEMENT
21 - HUB/LATH	31 - BASELINE
22 - NAIL/DISK*	32 - RIGHT-OF-WAY
23 - "X" IN CONCRETE	33 - CENTERLINE
24 - SWING TIES	34 - BACK OF CURB
(25) - SIRC 5/8"**	35 - SURVEY HUB
OTHER	36 - "X" IN CONCRETE
*NOTE: 22-SET NAIL AND DISK STAMPED "DRMP REF. PT."	(OTHER)
**NOTE: 25-SET IRON R&CAP STAMPED "DRMP REF. PT."	JOB UNITS: (ENGLISH) or METRIC

LOCATION SKETCH: 400' SW OF DAIGES DAIRY RD.





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CHESTER RD.

DRMP # 16-0210.001



VVH 512

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VACUUM EXCAVATION RECORD

CAMERA #: 5 | CREW: HIRES, JASMIN, O'ROURKE

PROJECT: CHESTER RD. | DATE: 11/25/20 | DRMP#: 16-0210.001

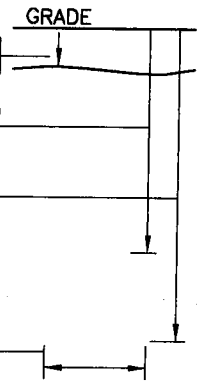
CITY/COUNTY: NASSAU | ONE-CALL #: 329000666 | F.P.N.#:

HOLE#: VVH 513 | UTILITY FOUND: WM - 18"- PVC

GROUND: ASPHALT CONCRETE (DIRT) OTHER

SOIL CONDITION: (HARD) SOFT (WET) (DRY) (SAND) (DIRT) CLAY ROCKY

VERTICAL INFORMATION:



PAVING THICKNESS:	0'
DEPTH TO TOP OF UTILITY:	1.40'
DEPTH TO BOTTOM OF UTILITY:	2.90'
EXPECTED WIDTH OF UTILITY:	N/A
MEASURED WIDTH OF UTILITY:	1.50

ELEV. AT GRADE:	ELEV. AT TOP:	ELEV. AT BOTTOM:
[redacted]	25.36'	23.8

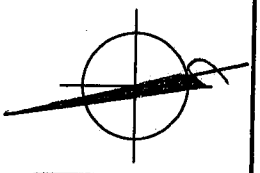
APPROX. STATION:	OFFSET DISTANCE:	OFFSET DIRECTION:	UTILITY DIRECTION:
[redacted]			SW - NE

[redacted]	EASTING:	STATE PLANE ZONE:
[redacted] OWNER/CONTRACTOR LOCATOR CO		POLE #: N/A
		EH #: N/A

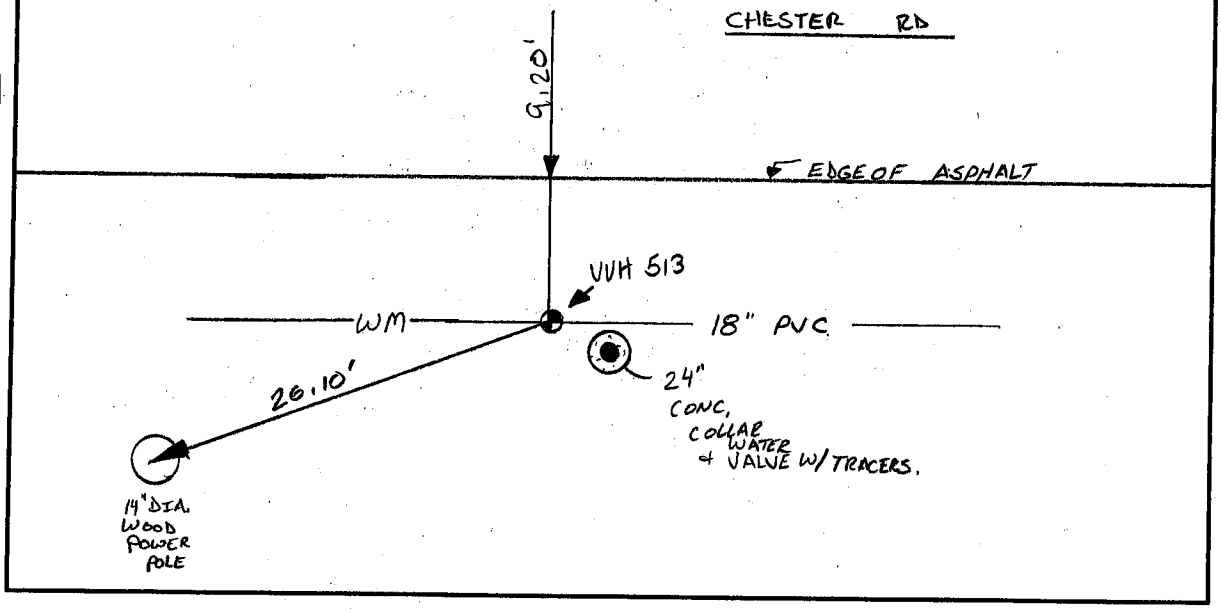
TYPE OF UTILITY	MATERIAL
E - ELECTRICAL	1 - STEEL
G - GAS	(2) PVC (POLYVINYL CHLORIDE)
BT - BURIED TELEPHONE	3 - DIP (DUCTILE IRON PIPE)
FOC - FIBER OPTIC CABLE	4 - VCP (VITRIFIED CLAY PIPE)
(W) - WATER	5 - PEP (POLYETHYLENE PIPE)
SAN - SANITARY SEWER	6 - AC(ASBESTOS C./TRANSITE)
STM - STORM SEWER	7 - CI (CAST IRON)
CATV - CABLE TELEVISION	8 - DBC(DIRECT BURIED CABLE)
FM - FORCE MAIN	9 - CONCRETE PIPE
RW - RECLAIMED WATER	10 - CORRUGATED METAL PIPE
OTHER_____	11 - DUCT
	OTHER_____

IDENTIFIED BY	DISTANCE PULLED FROM
20 - SLEEVE	(30) EDGE OF PAVEMENT
21 - HUB/LATH	31 - BASELINE
22 - NAIL/DISK*	32 - RIGHT-OF-WAY
23 - "X" IN CONCRETE	33 - CENTERLINE
24 - SWING TIES	34 - BACK OF CURB
(25) SIRC 5/8"**	35 - SURVEY HUB
OTHER_____	36 - "X" IN CONCRETE
*NOTE: 22-SET NAIL AND DISK STAMPED "DRMP REF. PT."	(OTHER) POWER POLE
**NOTE: 25-SET IRON R&CAP STAMPED "DRMP REF. PT."	JOB UNITS: (ENGLISH) or METRIC

LOCATION SKETCH: 350'+/- SW OF PAGES DAIRY RD.



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CHESTER RD.

DRMP # 16-0210.001



VVH 513

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VVH 513

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VACUUM EXCAVATION RECORD

CAMERA #: 5

CREW: HIRES, JASMIN, O'ROURKE

PROJECT: CHESTER RD

DATE: 11/25/20

DRMP#: 16-02/0,000

CITY/COUNTY: NASSAU

ONE-CALL #: 329000666

F.P.N.#:

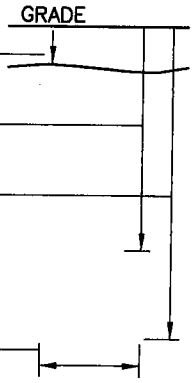
HOLE#: UVH 514

UTILITY FOUND: WM - 18"- PVC

GROUND: ASPHALT CONCRETE (DIRT) OTHER

SOIL CONDITION: (HARD) (SOFT) (WET) (DRY) (SAND) (DIRT) CLAY ROCKY

VERTICAL INFORMATION:



PAVING THICKNESS:	0'
DEPTH TO TOP OF UTILITY:	3.19
DEPTH TO BOTTOM OF UTILITY:	4.69'
EXPECTED WIDTH OF UTILITY:	N/A
MEASURED WIDTH OF UTILITY:	1.50'

ELEV. AT GRADE:	ELEV. AT TOP:	ELEV. AT BOTTOM:
[redacted]	23.06'	21

APPROX. STATION:	OFFSET DISTANCE:	OFFSET DIRECTION:	UTILITY DIRECTION:
[redacted] 38.88	33.75'	[redacted]	SW — NE

NORTHING:	EASTING:	STATE PLANE ZONE:

UTILITY OWNER/CONTRACTOR LOCATOR CONTACT: JEA

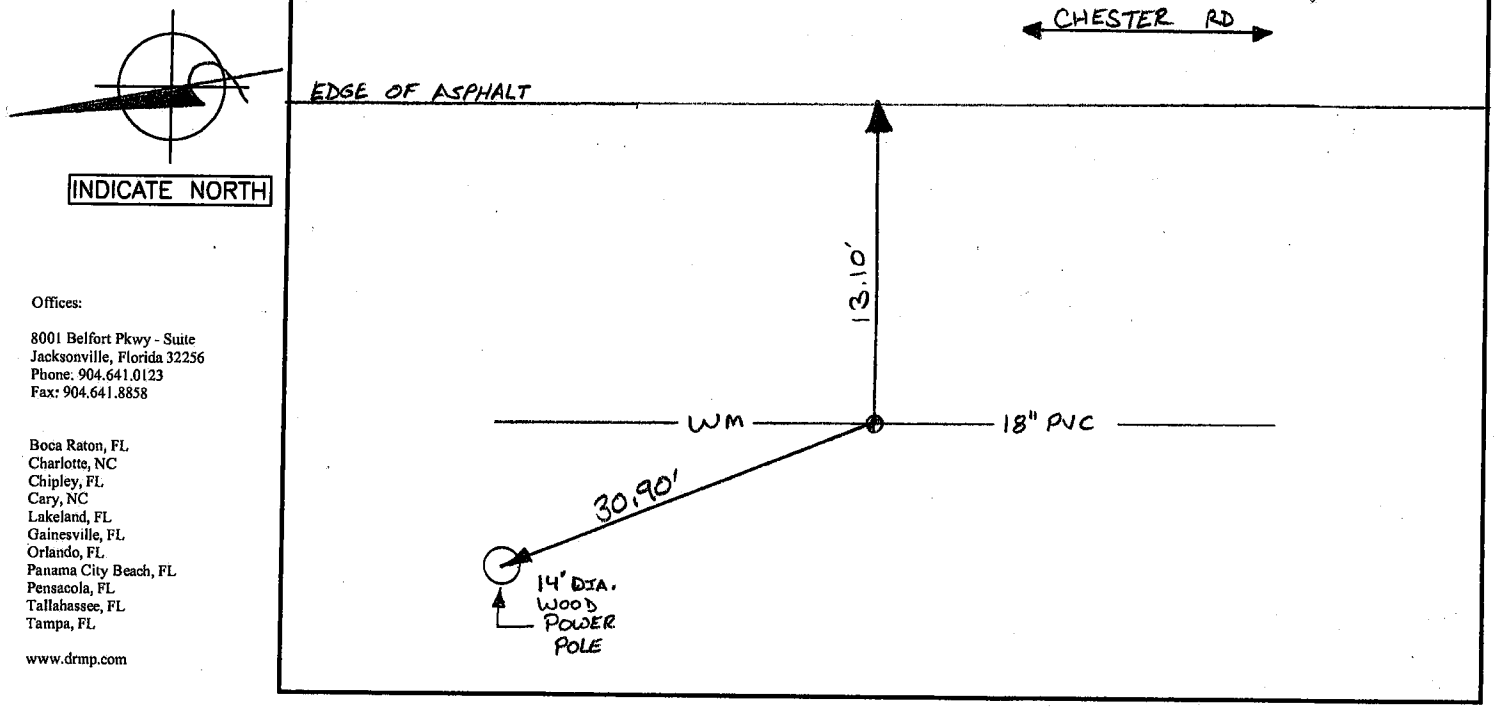
POLE #: N/A

EH #: N/A

TYPE OF UTILITY	MATERIAL
E - ELECTRICAL	1 - STEEL
G - GAS	(2) - PVC (POLYVINYL CHLORIDE)
BT - BURIED TELEPHONE	3 - DIP (DUCTILE IRON PIPE)
FOC - FIBER OPTIC CABLE	4 - VCP (VITRIFIED CLAY PIPE)
(W) - WATER	5 - PEP (POLYETHYLENE PIPE)
SAN - SANITARY SEWER	6 - AC(ASBESTOS C./TRANSITE)
STM - STORM SEWER	7 - CI (CAST IRON)
CATV - CABLE TELEVISION	8 - DBC(DIRECT BURIED CABLE)
FM - FORCE MAIN	9 - CONCRETE PIPE
RW - RECLAIMED WATER	10 - CORRUGATED METAL PIPE
OTHER_____	11 - DUCT
	OTHER_____

IDENTIFIED BY	DISTANCE PULLED FROM
20 - SLEEVE	(30) EDGE OF PAVEMENT
21 - HUB/LATH	31 - BASELINE
22 - NAIL/DISK*	32 - RIGHT-OF-WAY
23 - "X" IN CONCRETE	33 - CENTERLINE
24 - SWING TIES	34 - BACK OF CURB
(25) - SIRC 5/8"**	35 - SURVEY HUB
OTHER_____	36 - "X" IN CONCRETE
*NOTE: 22-SET NAIL AND DISK STAMPED "DRMP REF. PT."	(OTHER)_____
**NOTE: 25-SET IRON R&CAP STAMPED "DRMP REF. PT."	JOB UNITS: (ENGLISH) or METRIC

LOCATION SKETCH: 150' SW OF PAGES DAIRY



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CHESTER RD.

DRMP # 16-0210.001



VVH 514

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VVH 514

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DRMP
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VACUUM EXCAVATION RECORD

CAMERA #: 5 | CREW: HIRES, JASMIN, O'ROURKE

PROJECT: CHESTER RD | DATE: 11/30/20 | DRMP#: 16-0210.001

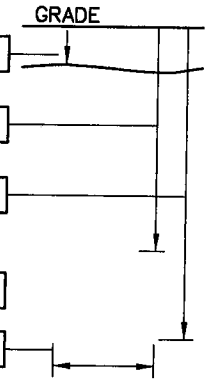
CITY/COUNTY: NASSAU | ONE-CALL #: 329000666 | F.P.N.#:

HOLE#: VVH 515 | UTILITY FOUND: FM – 14" – PVC

GROUND: ASPHALT CONCRETE (DIRT) OTHER

SOIL CONDITION: (HARD) SOFT WET (DRY) SAND (DIRT) (CLAY) (ROCKY)

VERTICAL INFORMATION:



PAVING THICKNESS:	0'
DEPTH TO TOP OF UTILITY:	3.51'
DEPTH TO BOTTOM OF UTILITY:	4.67'
EXPECTED WIDTH OF UTILITY:	N/A
MEASURED WIDTH OF UTILITY:	1.16'

ELEV. AT GRADE:	ELEV. AT TOP:	ELEV. AT BOTTOM:
[redacted]	25.63'	24.47

APPROX. STATION:	OFFSET DISTANCE:	OFFSET DIRECTION:	UTILITY DIRECTION:
[redacted]	28.62'	RT	SW – NE

NORTHING:	EASTING:	STATE PLANE ZONE:

UTILITY OWNER/CONTRACTOR LOCATOR CONTACT: JEA

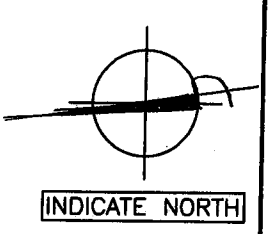
POLE #: N/A

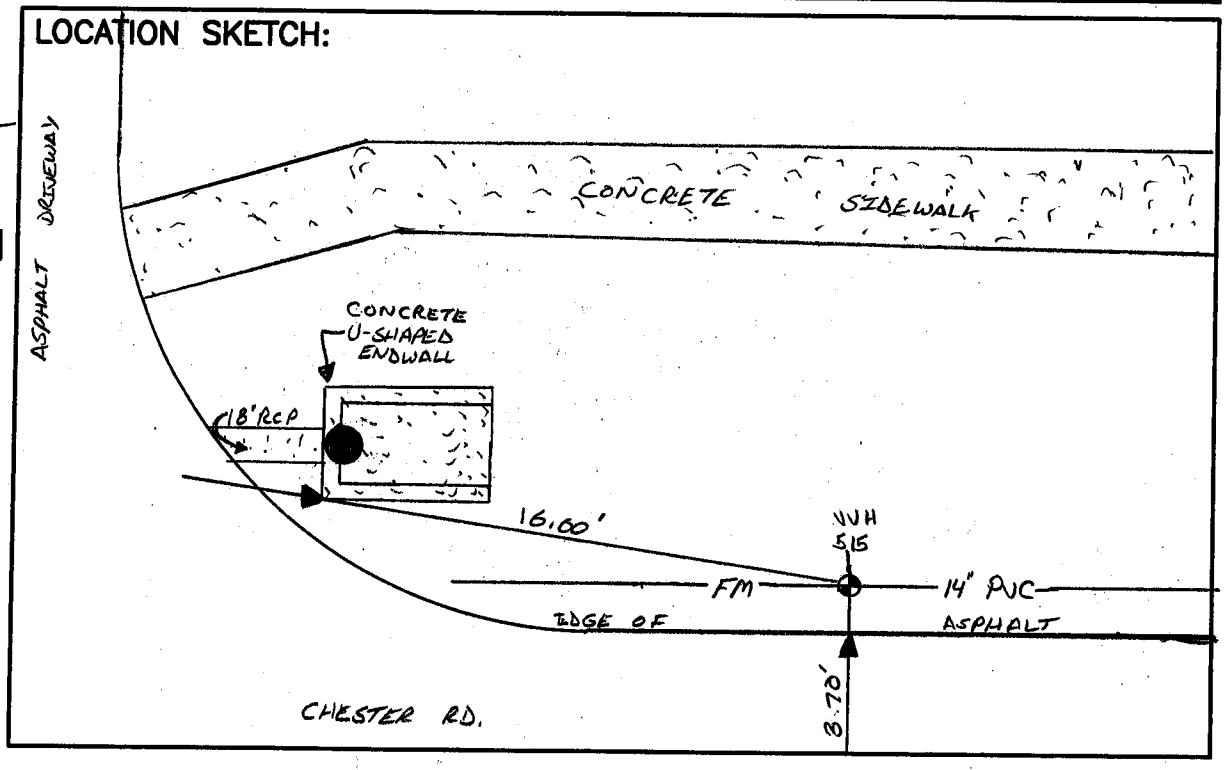
EH #: TH8

TYPE OF UTILITY	MATERIAL
E - ELECTRICAL	1 - STEEL
G - GAS	(2) PVC (POLYVINYL CHLORIDE)
BT - BURIED TELEPHONE	3 - DIP (DUCTILE IRON PIPE)
FOC - FIBER OPTIC CABLE	4 - VCP (VITRIFIED CLAY PIPE)
W - WATER	5 - PEP (POLYETHYLENE PIPE)
SAN - SANITARY SEWER	6 - AC(ASBESTOS C./TRANSITE)
STM - STORM SEWER	7 - CI (CAST IRON)
CATV - CABLE TELEVISION	8 - DBC(DIRECT BURIED CABLE)
(FM) - FORCE MAIN	9 - CONCRETE PIPE
RW - RECLAIMED WATER	10 - CORRUGATED METAL PIPE
OTHER_____	11 - DUCT
	OTHER_____

IDENTIFIED BY	DISTANCE PULLED FROM
20 - SLEEVE	(30) EDGE OF PAVEMENT
21 - HUB/LATH	31 - BASELINE
22 - NAIL/DISK*	32 - RIGHT-OF-WAY
23 - "X" IN CONCRETE	33 - CENTERLINE
24 - SWING TIES	34 - BACK OF CURB
(25) SIRC 5/8"**	35 - SURVEY HUB
OTHER_____	36 - "X" IN CONCRETE
*NOTE: 22-SET NAIL AND DISK STAMPED "DRMP REF. PT."	(OTHER) N.W. CORNER OF U-ENDWALL
**NOTE: 25-SET IRON R&CAP STAMPED "DRMP REF. PT."	JOB UNITS: (ENGLISH) or METRIC

LOCATION SKETCH:





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CHESTER RD.

DRMP # 16-0210.001



VVH 515

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CAMERA #: 4

VACUUM EXCAVATION RECORD

PROJECT: CHESTER RD.

DATE: 11.24.2020

CREW: I. DUNHAM, F. GRAB, G. KNIGHT

CITY/COUNTY: NASSAU

ONE-CALL #: 329000666

FPN/DRMP #: 16-0210.001

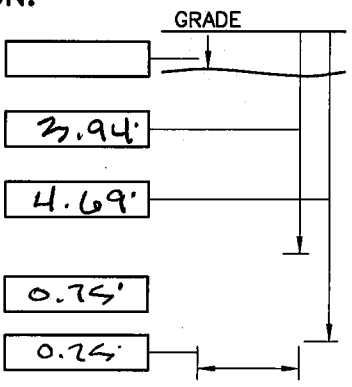
HOLE #: VVH#S16

UTILITY FOUND: FM 8" HDPE

GROUND: ASPHALT CONCRETE (DIRT) OTHER

SOIL CONDITION: HARD SOFT (WET) DRY SAND (DIRT) CLAY ROCKY

VERTICAL INFORMATION:



PAVING THICKNESS:	
DEPTH TO TOP OF UTILITY:	3.94'
DEPTH TO BOTTOM OF UTILITY:	4.69'
EXPECTED WIDTH OF UTILITY:	0.75'
MEASURED WIDTH OF UTILITY:	0.75'

ELEV. AT GRADE:	ELEV. AT TOP:	ELEV. AT BOTTOM:
[redacted]	27.06'	26

APPROX. STATION:	OFFSET DISTANCE:	OFFSET DIRECTION:	UTILITY DIRECTION:
[redacted] 73.38	62.72'		E4W

NORTHING:	EASTING:	STATE PLANE ZONE:

UTILITY/CONTRACTOR LOCATOR CONTACT:

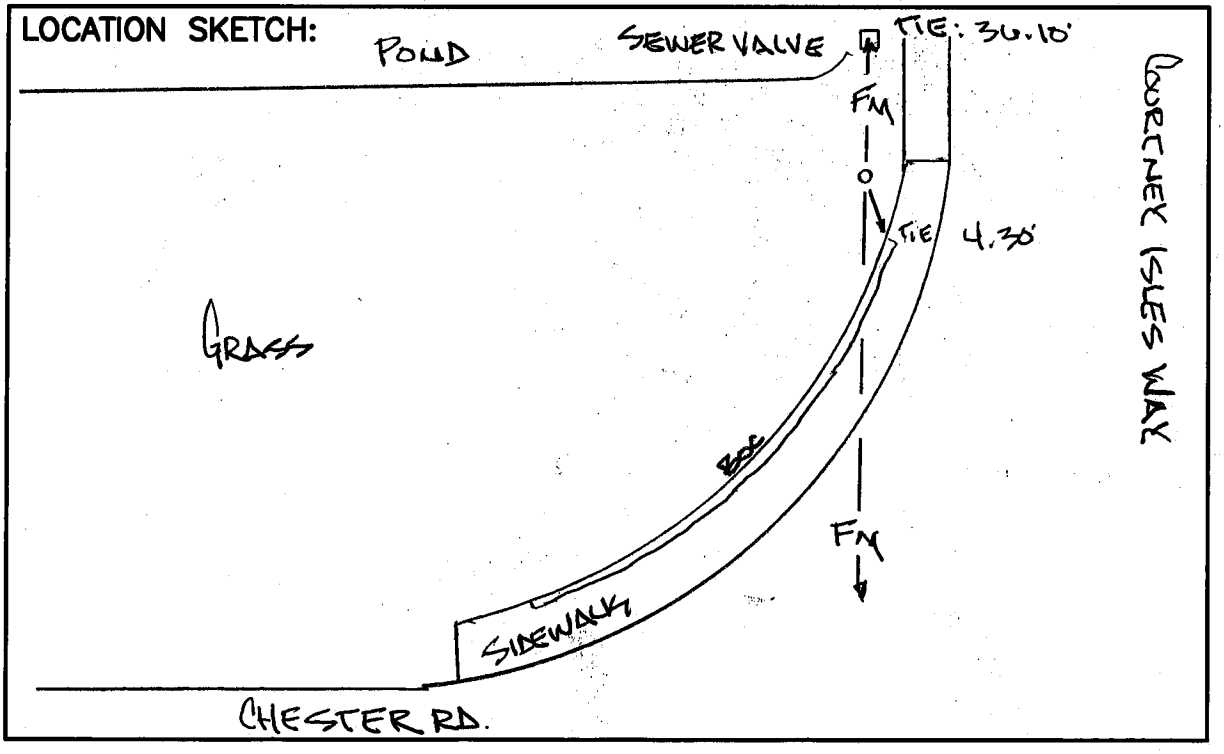
POLE #: TH-4

EH #:

TYPE OF UTILITY	MATERIAL
E - ELECTRICAL	1 - STEEL
G - GAS	2 - PVC (POLYVINYL CHLORIDE)
BT - BURIED TELEPHONE	3 - DIP (DUCTILE IRON PIPE)
FOC - FIBER OPTIC CABLE	4 - VCP (VITRIFIED CLAY PIPE)
W - WATER	5 - PEP (POLYETHYLENE PIPE)
SAN - SANITARY SEWER	6 - AC(ASBESTOS C./TRANSITE)
STM - STORM SEWER	7 - CI (CAST IRON)
CATV - CABLE TELEVISION	8 - DBC(DIRECT BURIED CABLE)
FM - FORCE MAIN	9 - CONCRETE PIPE
RW - RECLAIMED WATER	10 - CORRUGATED METAL PIPE
OTHER	11 - DUCT
	OTHER HDPE

IDENTIFIED BY	DISTANCE PULLED FROM
20 - SLEEVE	30 - EDGE OF PAVEMENT
21 - HUB/LATH	31 - BASELINE
22 - NAIL/DISK*	32 - RIGHT-OF-WAY
23 - "X" IN CONCRETE	33 - CENTERLINE
24 - SWING TIES	(34) BACK OF CURB
25 - SIRC 5/8"**	35 - SURVEY HUB
OTHER	36 - "X" IN CONCRETE
*NOTE: 22-SET NAIL AND DISK STAMPED "DRMP REF. PT."	OTHER SEWER VALVE
**NOTE: 25-SET IRON R&CAP STAMPED "DRMP REF. PT."	JOB UNITS: (ENGLISH) or METRIC

LOCATION SKETCH:



INDICATE NORTH

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CHESTER RD.

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VVH 516

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CAMERA #: 4

VACUUM EXCAVATION RECORD

PROJECT: CHESTER RD.

DATE: 11.24.2020

CREW: I. DUNHAM, F. GRAB

CITY/COUNTY: NASSAU

ONE-CALL #: 329000666

FPN/DRMP #: 16.0210.001

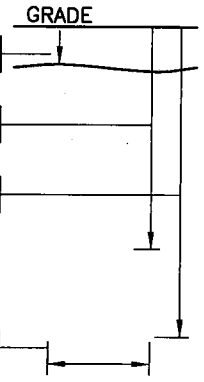
HOLE #: VH 512

UTILITY FOUND: WM 16" PVC

GROUND: ASPHALT CONCRETE (DIRT) OTHER

SOIL CONDITION: HARD SOFT (WET) DRY SAND (DIRT) CLAY ROCKY

VERTICAL INFORMATION:



PAVING THICKNESS:	
DEPTH TO TOP OF UTILITY:	3.90'
DEPTH TO BOTTOM OF UTILITY:	5.36'
EXPECTED WIDTH OF UTILITY:	1.45
MEASURED WIDTH OF UTILITY:	1.46'

ELEV. AT GRADE:	ELEV. AT TOP:	ELEV. AT BOTTOM:
[redacted]	26.43'	[redacted]

APPROX. STATION:	OFFSET DISTANCE:	OFFSET DIRECTION:	UTILITY DIRECTION:
[redacted] 43.64	34.79'	[redacted]	NAS

NORTHING:	EASTING:	STATE PLANE ZONE:

UTILITY/CONTRACTOR LOCATOR CONTACT:

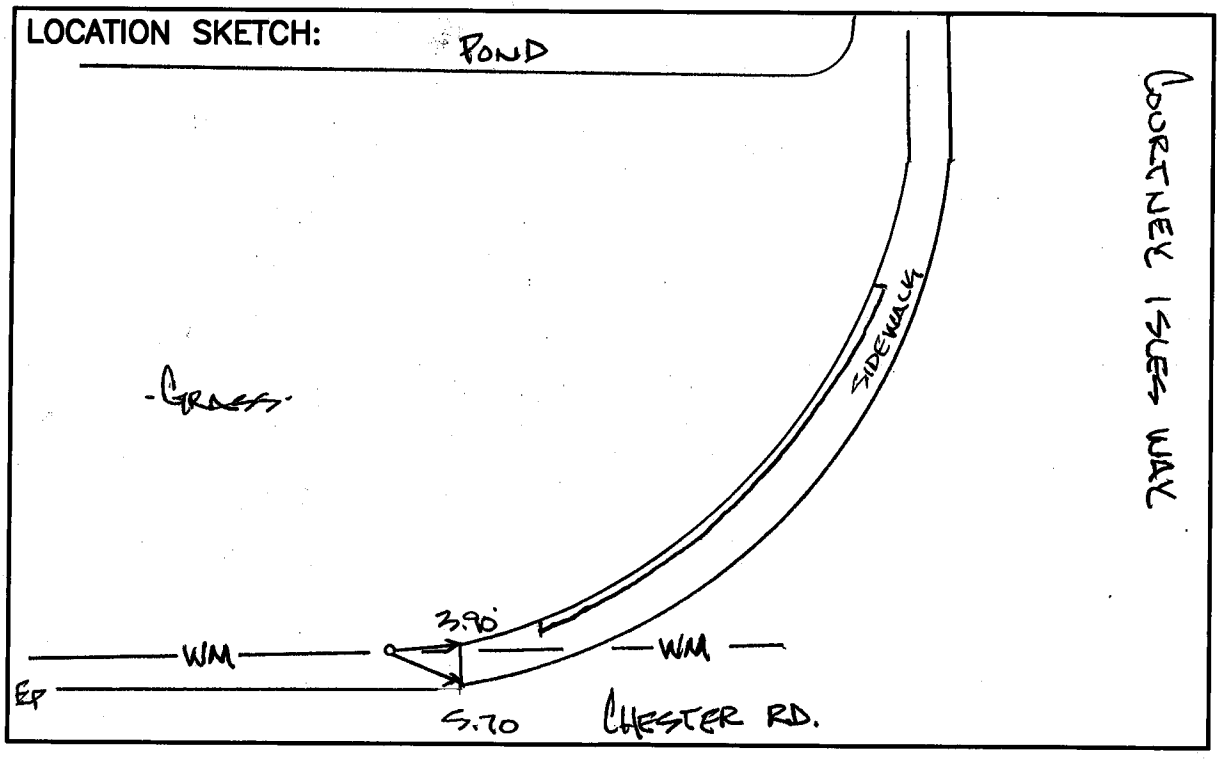
POLE #: TH-3

EH #:

TYPE OF UTILITY	MATERIAL
E - ELECTRICAL	1 - STEEL
G - GAS	(2) PVC (POLYVINYL CHLORIDE)
BT - BURIED TELEPHONE	3 - DIP (DUCTILE IRON PIPE)
FOC - FIBER OPTIC CABLE	4 - VCP (VITRIFIED CLAY PIPE)
(W) - WATER	5 - PEP (POLYETHYLENE PIPE)
SAN - SANITARY SEWER	6 - AC(ASBESTOS C./TRANSITE)
STM - STORM SEWER	7 - CI (CAST IRON)
CATV - CABLE TELEVISION	8 - DBC(DIRECT BURIED CABLE)
FM - FORCE MAIN	9 - CONCRETE PIPE
RW - RECLAIMED WATER	10 - CORRUGATED METAL PIPE
OTHER_____	11 - DUCT
	OTHER_____

IDENTIFIED BY	DISTANCE PULLED FROM
20 - SLEEVE	30 - EDGE OF PAVEMENT
21 - HUB/LATH	31 - BASELINE
22 - NAIL/DISK*	32 - RIGHT-OF-WAY
23 - "X" IN CONCRETE	33 - CENTERLINE
24 - SWING TIES	(34) - BACK OF CURB
(25) - SIRC 5/8"**	35 - SURVEY HUB
OTHER_____	36 - "X" IN CONCRETE
*NOTE: 22-SET NAIL AND DISK STAMPED "DRMP REF. PT."	OTHER CORNER CONC.
**NOTE: 25-SET IRON R&CAP STAMPED "DRMP REF. PT."	JOB UNITS: (ENGLISH) or METRIC

LOCATION SKETCH:



INDICATE NORTH

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CHESTER RD.

DRMP # 16-0210.001



VVH 517

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CAMERA #: 4

VACUUM EXCAVATION RECORD

PROJECT: CHESTER RD.

DATE: 11.24.2020

CREW: 1. DUNHAM, F. GRAB G. KNIGHT

CITY/COUNTY: NASSAU

ONE-CALL #: 329000666

FPN/DRMP #: 16-0210.001

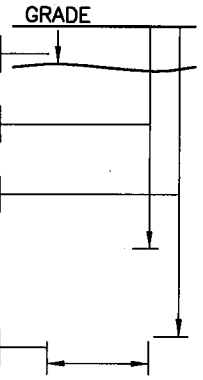
HOLE #: VUH SIB

UTILITY FOUND: WM 16" PVC

GROUND: ASPHALT CONCRETE (DIRT) OTHER

SOIL CONDITION: HARD SOFT (WET) DRY (SAND) DIRT CLAY ROCKY

VERTICAL INFORMATION:



PAVING THICKNESS:	
DEPTH TO TOP OF UTILITY:	3.71'
DEPTH TO BOTTOM OF UTILITY:	5.16'
EXPECTED WIDTH OF UTILITY:	1.45
MEASURED WIDTH OF UTILITY:	1.46

ELEV. AT GRADE:	ELEV. AT TOP:	ELEV. AT BOTTOM:
[redacted]	25.99'	24.5

APPROX. STATION:	OFFSET DISTANCE:	OFFSET DIRECTION:	UTILITY DIRECTION:
[redacted]80.74	35.19'	[redacted]	N-S

NORTHING:	EASTING:	STATE PLANE ZONE:

UTILITY/CONTRACTOR LOCATOR CONTACT:

POLE #: TH-2

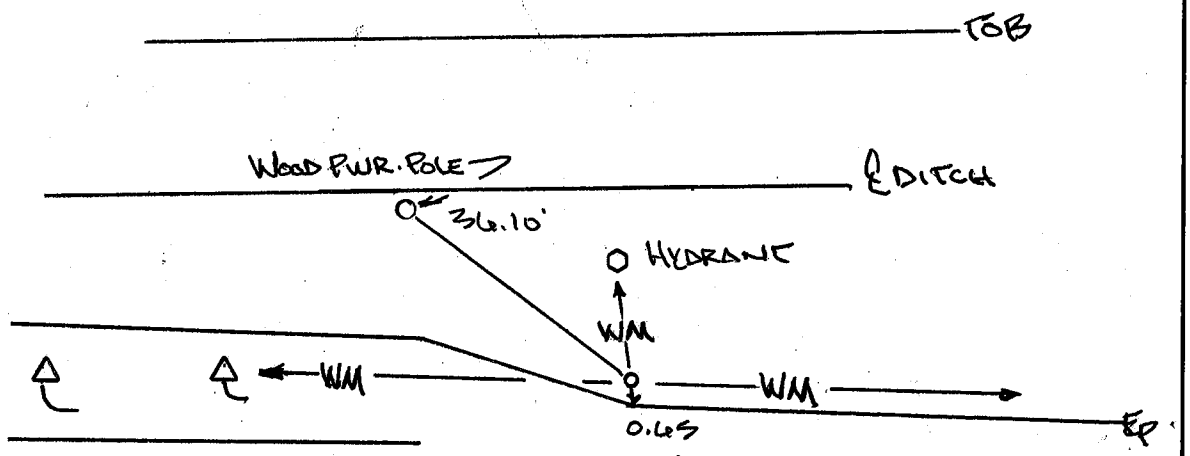
EH #:

TYPE OF UTILITY	MATERIAL
E - ELECTRICAL	1 - STEEL
G - GAS	(2) PVC (POLYVINYL CHLORIDE)
BT - BURIED TELEPHONE	3 - DIP (DUCTILE IRON PIPE)
FOC - FIBER OPTIC CABLE	4 - VCP (VITRIFIED CLAY PIPE)
(W) - WATER	5 - PEP (POLYETHYLENE PIPE)
SAN - SANITARY SEWER	6 - AC(ASBESTOS C./TRANSITE)
STM - STORM SEWER	7 - CI (CAST IRON)
CATV - CABLE TELEVISION	8 - DBC(DIRECT BURIED CABLE)
FM - FORCE MAIN	9 - CONCRETE PIPE
RW - RECLAIMED WATER	10 - CORRUGATED METAL PIPE
OTHER_____	11 - DUCT
	OTHER_____

IDENTIFIED BY	DISTANCE PULLED FROM
20 - SLEEVE	(30) EDGE OF PAVEMENT
21 - HUB/LATH	31 - BASELINE
22 - NAIL/DISK*	32 - RIGHT-OF-WAY
23 - "X" IN CONCRETE	33 - CENTERLINE
24 - SWING TIES	34 - BACK OF CURB
(25) - SIRC 5/8"**	35 - SURVEY HUB
OTHER_____	36 - "X" IN CONCRETE
*NOTE: 22-SET NAIL AND DISK STAMPED "DRMP REF. PT."	OTHER POWER POLE
**NOTE: 25-SET IRON R&CAP STAMPED "DRMP REF. PT."	JOB UNITS: (ENGLISH) or METRIC

INDICATE NORTH

LOCATION SKETCH:



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DRMP # 16-0210.001



VVH 518

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VVH 518

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VVH 518

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CAMERA #: 4

VACUUM EXCAVATION RECORD

PROJECT: CHESTER RD.

DATE: 11.25.2020

CREW: I. DUNHAM, F. GRAB, G. KNIGHT

CITY/COUNTY: NASSAU

ONE-CALL #: 3290006666

FPN/DRMP #: 16-0210.001

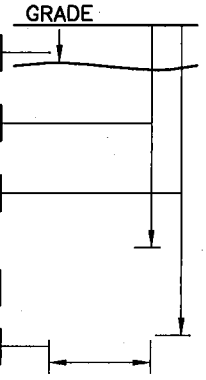
HOLE #: VVH S19

UTILITY FOUND: WM 16" PVC @ SERVICE

GROUND: (ASPHALT) CONCRETE (DIRT) OTHER

SOIL CONDITION: HARD SOFT (WET) DRY (SAND) DIRT CLAY ROCKY

VERTICAL INFORMATION:



PAVING THICKNESS:	0.20'
DEPTH TO TOP OF UTILITY:	3.93'
DEPTH TO BOTTOM OF UTILITY:	5.38'
EXPECTED WIDTH OF UTILITY:	1.45'
MEASURED WIDTH OF UTILITY:	1.45'

ELEV. AT GRADE:	ELEV. AT TOP:	ELEV. AT BOTTOM:
[redacted]	24.27'	[redacted]

APPROX. STATION:	OFFSET DISTANCE:	OFFSET DIRECTION:	UTILITY DIRECTION:
[redacted]	34.31'	[redacted]	N-S

NORTHING:	EASTING:	STATE PLANE ZONE:

UTILITY/CONTRACTOR LOCATOR CONTACT:

POLE #: TH-11

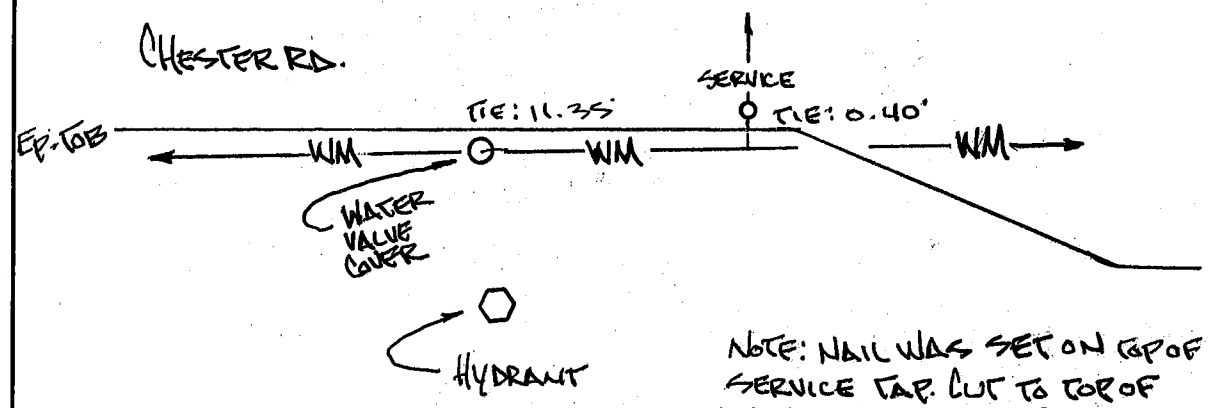
EH #:

TYPE OF UTILITY	MATERIAL
E - ELECTRICAL	1 - STEEL
G - GAS	(2) - PVC (POLYVINYL CHLORIDE)
BT - BURIED TELEPHONE	3 - DIP (DUCTILE IRON PIPE)
FOC - FIBER OPTIC CABLE	4 - VCP (VITRIFIED CLAY PIPE)
(W) - WATER	5 - PEP (POLYETHYLENE PIPE)
SAN - SANITARY SEWER	6 - AC(ASBESTOS C./TRANSITE)
STM - STORM SEWER	7 - CI (CAST IRON)
CATV - CABLE TELEVISION	8 - DBC(DIRECT BURIED CABLE)
FM - FORCE MAIN	9 - CONCRETE PIPE
RW - RECLAIMED WATER	10 - CORRUGATED METAL PIPE
OTHER_____	11 - DUCT
	OTHER_____

IDENTIFIED BY	DISTANCE PULLED FROM
20 - SLEEVE	(30) EDGE OF PAVEMENT
21 - HUB/LATH	31 - BASELINE
(22) - NAIL/DISK*	32 - RIGHT-OF-WAY
23 - "X" IN CONCRETE	33 - CENTERLINE
24 - SWING TIES	34 - BACK OF CURB
25 - SIRC 5/8"**	35 - SURVEY HUB
OTHER_____	36 - "X" IN CONCRETE
*NOTE: 22-SET NAIL AND DISK STAMPED "DRMP REF. PT."	OTHER VALVE COVER
**NOTE: 25-SET IRON R&CAP STAMPED "DRMP REF. PT."	JOB UNITS: (ENGLISH) or METRIC

LOCATION SKETCH:

INDICATE NORTH



NOTE: NAIL WAS SET ON TOP OF SERVICE TAP. CUT TO TOP OF 16" PVC. HOLE WAS CAVING IN. WATER TABLE @ 4'.. WATER SERICE IS 2" PE.

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CHESTER RD.

DRMP # 16-0210.001



VVH 519

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VVH 519

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DRMP
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CAMERA #: 4

VACUUM EXCAVATION RECORD

PROJECT: CHESTER RD.

DATE: 11.25.2020

CREW: 1. DUNHAM, F. GRAB G. KNIGHT

CITY/COUNTY: NASSAU

ONE-CALL #: 329000606

FPN/DRMP #: 16-0210.001

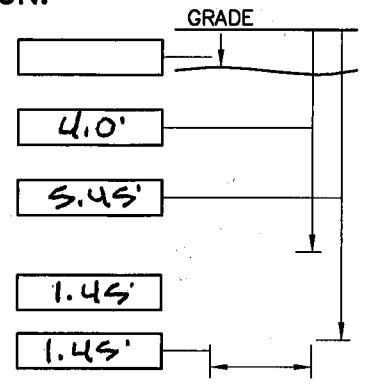
HOLE #: VVH S20

UTILITY FOUND: WM 16" PVC

GROUND: ASPHALT CONCRETE (DIRT) OTHER

SOIL CONDITION: HARD (SOFT) (WET) DRY (SAND) DIRT CLAY ROCKY

VERTICAL INFORMATION:



PAVING THICKNESS:	
DEPTH TO TOP OF UTILITY:	4.0'
DEPTH TO BOTTOM OF UTILITY:	5.45'
EXPECTED WIDTH OF UTILITY:	1.45'
MEASURED WIDTH OF UTILITY:	1.45'

ELEV. AT GRADE:	ELEV. AT TOP:	ELEV. AT BOTTOM:
[redacted]	24.43'	[redacted]

APPROX. STATION:	OFFSET DISTANCE:	OFFSET DIRECTION:	UTILITY DIRECTION:
[redacted] 13.94	34.99	[redacted]	N45

NORTHING:	EASTING:	STATE PLANE ZONE:

UTILITY/CONTRACTOR LOCATOR CONTACT:

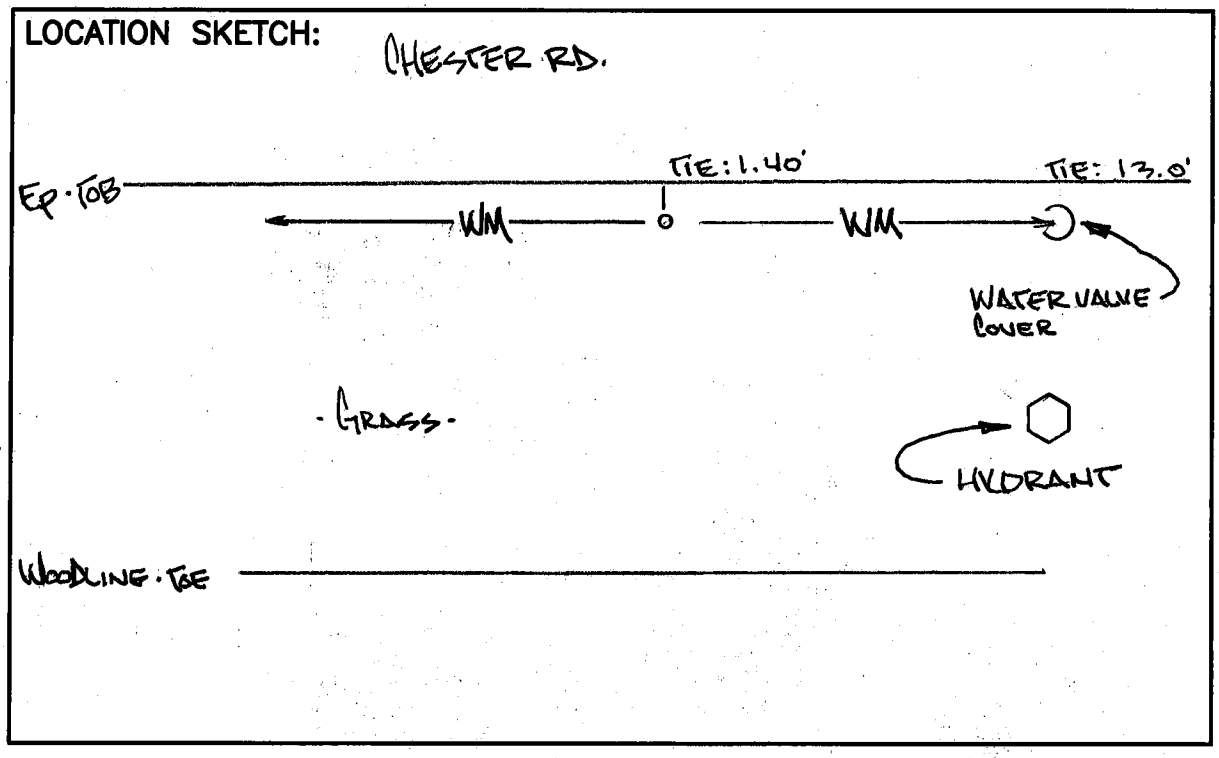
POLE #: TH-12

EH #:

TYPE OF UTILITY	MATERIAL
E - ELECTRICAL	1 - STEEL
G - GAS	(2) - PVC (POLYVINYL CHLORIDE)
BT - BURIED TELEPHONE	3 - DIP (DUCTILE IRON PIPE)
FOC - FIBER OPTIC CABLE	4 - VCP (VITRIFIED CLAY PIPE)
(W) - WATER	5 - PEP (POLYETHYLENE PIPE)
SAN - SANITARY SEWER	6 - AC(ASBESTOS C./TRANSITE)
STM - STORM SEWER	7 - CI (CAST IRON)
CATV - CABLE TELEVISION	8 - DBC(DIRECT BURIED CABLE)
FM - FORCE MAIN	9 - CONCRETE PIPE
RW - RECLAIMED WATER	10 - CORRUGATED METAL PIPE
OTHER_____	11 - DUCT
	OTHER_____

IDENTIFIED BY	DISTANCE PULLED FROM
20 - SLEEVE	(30) - EDGE OF PAVEMENT
21 - HUB/LATH	31 - BASELINE
22 - NAIL/DISK*	32 - RIGHT-OF-WAY
23 - "X" IN CONCRETE	33 - CENTERLINE
24 - SWING TIES	34 - BACK OF CURB
(25) - SIRC 5/8"**	35 - SURVEY HUB
OTHER_____	36 - "X" IN CONCRETE
*NOTE: 22-SET NAIL AND DISK STAMPED "DRMP REF. PT."	OTHER VALVE COVER
**NOTE: 25-SET IRON R&CAP STAMPED "DRMP REF. PT."	JOB UNITS: (ENGLISH) or METRIC

LOCATION SKETCH:



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CHESTER RD.

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DRMP
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CAMERA #: 4

VACUUM EXCAVATION RECORD

PROJECT: CHESTER RD.

DATE: 11-25-2020

CREW: I. DUNHAM, F. GRAB, G. KNIGHT

CITY/COUNTY: NASSAU

ONE-CALL #: 329000606606

FPN/DRMP #: 16-0210.001

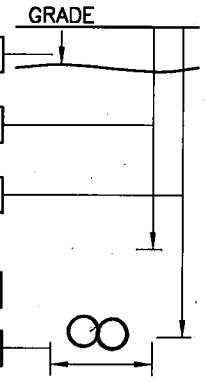
HOLE #: VVH521

UTILITY FOUND: CATV 2" PE (X2)

GROUND: ASPHALT CONCRETE (DIRT) OTHER

SOIL CONDITION: HARD (SOFT) WET DRY (SAND) DIRT CLAY ROCKY

VERTICAL INFORMATION:



PAVING THICKNESS:	
DEPTH TO TOP OF UTILITY:	1.15
DEPTH TO BOTTOM OF UTILITY:	1.35'
EXPECTED WIDTH OF UTILITY:	0.40'
MEASURED WIDTH OF UTILITY:	0.40'

ELEV. AT GRADE:	ELEV. AT TOP:	ELEV. AT BOTTOM:
[redacted]	26.53'	26

APPROX. STATION:	OFFSET DISTANCE:	OFFSET DIRECTION:	UTILITY DIRECTION:
[redacted] 23.90	41.48'		

NORTHING:	EASTING:	STATE PLANE ZONE:

UTILITY/CONTRACTOR LOCATOR CONTACT:

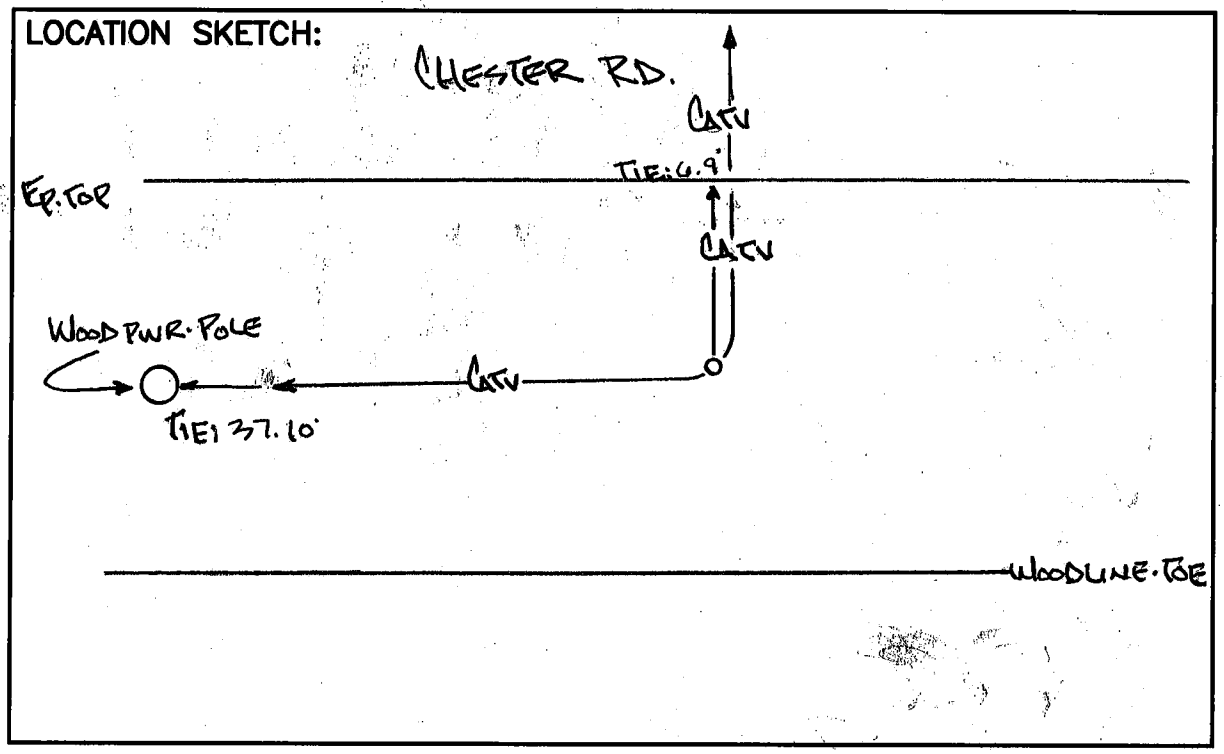
POLE #: TH-13

EH #:

TYPE OF UTILITY	MATERIAL
E - ELECTRICAL	1 - STEEL
G - GAS	2 - PVC (POLYVINYL CHLORIDE)
BT - BURIED TELEPHONE	3 - DIP (DUCTILE IRON PIPE)
FOC - FIBER OPTIC CABLE	4 - VCP (VITRIFIED CLAY PIPE)
W - WATER	(5) - PEP (POLYETHYLENE PIPE)
SAN - SANITARY SEWER	6 - AC(ASBESTOS C./TRANSITE)
STM - STORM SEWER	7 - CI (CAST IRON)
(CATV) - CABLE TELEVISION	8 - DBC(DIRECT BURIED CABLE)
FM - FORCE MAIN	9 - CONCRETE PIPE
RW - RECLAIMED WATER	10 - CORRUGATED METAL PIPE
OTHER_____	11 - DUCT
	OTHER_____

IDENTIFIED BY	DISTANCE PULLED FROM
20 - SLEEVE	(60) EDGE OF PAVEMENT
21 - HUB/LATH	31 - BASELINE
22 - NAIL/DISK*	32 - RIGHT-OF-WAY
23 - "X" IN CONCRETE	33 - CENTERLINE
24 - SWING TIES	34 - BACK OF CURB
(25) - SIRC 5/8"**	35 - SURVEY HUB
OTHER_____	36 - "X" IN CONCRETE
*NOTE: 22-SET NAIL AND DISK STAMPED "DRMP REF. PT."	OTHER_____
**NOTE: 25-SET IRON R&CAP STAMPED "DRMP REF. PT."	JOB UNITS: (ENGLISH) or METRIC

LOCATION SKETCH:



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VVH 521

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CAMERA #: 4

VACUUM EXCAVATION RECORD

PROJECT: CHESTER RD

DATE: 11.25.2020

CREW: 1. DUNHAM, F. GRAB G. KNIGHT

CITY/COUNTY: NASSAU

ONE-CALL #: 329000606

FPN/DRMP #: 16-0210.001

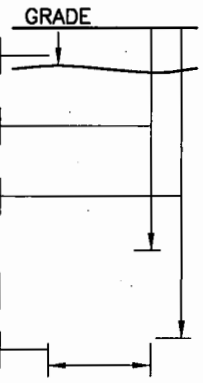
HOLE #: VVH#522

UTILITY FOUND: FM 12" PVC

GROUND: ASPHALT CONCRETE (DIRT) OTHER

SOIL CONDITION: HARD (SOFT) (WET) DRY (SAND) DIRT CLAY ROCKY

VERTICAL INFORMATION:



PAVING THICKNESS:	
DEPTH TO TOP OF UTILITY:	3.16
DEPTH TO BOTTOM OF UTILITY:	4.26
EXPECTED WIDTH OF UTILITY:	1.10'
MEASURED WIDTH OF UTILITY:	1.10'

ELEV. AT GRADE:	ELEV. AT TOP:	ELEV. AT BOTTOM:
[redacted]	24.66'	[redacted]

APPROX. STATION:	OFFSET DISTANCE:	OFFSET DIRECTION:	UTILITY DIRECTION:
[redacted]	33.88'	[redacted]	N&S

NORTHING:	EASTING:	STATE PLANE ZONE:

UTILITY/CONTRACTOR LOCATOR CONTACT:

POLE #: TH-19

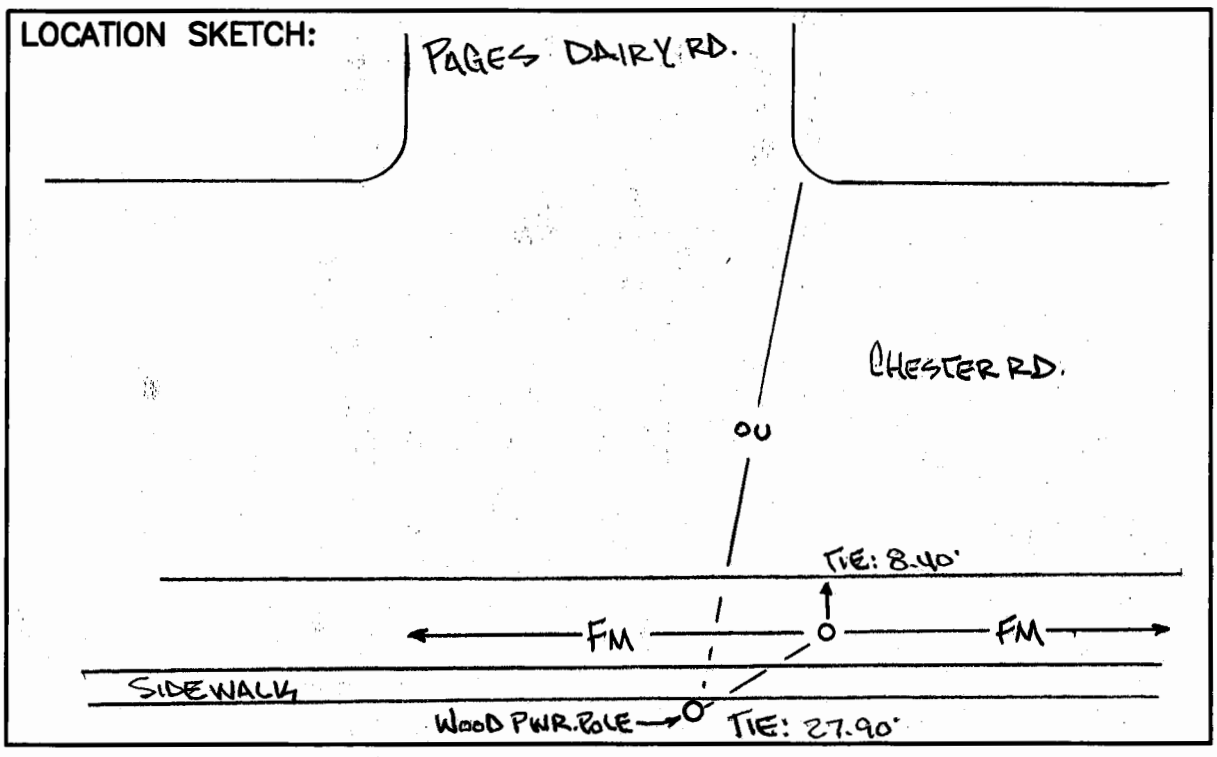
EH #:

TYPE OF UTILITY	MATERIAL
E - ELECTRICAL	1 - STEEL
G - GAS	(2) - PVC (POLYVINYL CHLORIDE)
BT - BURIED TELEPHONE	3 - DIP (DUCTILE IRON PIPE)
FOC - FIBER OPTIC CABLE	4 - VCP (VITRIFIED CLAY PIPE)
W - WATER	5 - PEP (POLYETHYLENE PIPE)
SAN - SANITARY SEWER	6 - AC(ASBESTOS C./TRANSITE)
STM - STORM SEWER	7 - CI (CAST IRON)
CATV - CABLE TELEVISION	8 - DBC(DIRECT BURIED CABLE)
(FM) - FORCE MAIN	9 - CONCRETE PIPE
RW - RECLAIMED WATER	10 - CORRUGATED METAL PIPE
OTHER	11 - DUCT
	OTHER

IDENTIFIED BY	DISTANCE PULLED FROM
20 - SLEEVE	(30) - EDGE OF PAVEMENT
21 - HUB/LATH	31 - BASELINE
22 - NAIL/DISK*	32 - RIGHT-OF-WAY
23 - "X" IN CONCRETE	33 - CENTERLINE
24 - SWING TIES	34 - BACK OF CURB
(25) - SIRC 5/8"**	35 - SURVEY HUB
OTHER	36 - "X" IN CONCRETE
*NOTE: 22-SET NAIL AND DISK STAMPED "DRMP REF. PT."	OTHER POWER POLE
**NOTE: 25-SET IRON R&CAP STAMPED "DRMP REF. PT."	JOB UNITS: (ENGLISH) or METRIC

INDICATE NORTH

LOCATION SKETCH:



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VVH 522

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CAMERA #: 4

VACUUM EXCAVATION RECORD

PROJECT: CHESTER RD.

DATE: 11.25.2020

CREW: I. DUNHAM, F. GRAB

CITY/COUNTY: NASSAU

ONE-CALL #: 329000626606

FPN/DRMP #: 116.0210.001

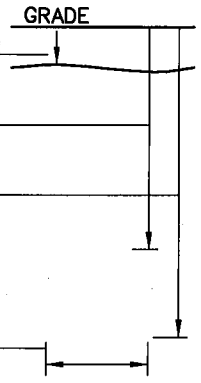
HOLE #: VUH*523

UTILITY FOUND: FM 12" PVC

GROUND: ASPHALT CONCRETE (DIRT) OTHER

SOIL CONDITION: HARD (SOFT) (WET) DRY (SAND) DIRT CLAY ROCKY

VERTICAL INFORMATION:



PAVING THICKNESS:	
DEPTH TO TOP OF UTILITY:	6.30
DEPTH TO BOTTOM OF UTILITY:	7.40'
EXPECTED WIDTH OF UTILITY:	1.10'
MEASURED WIDTH OF UTILITY:	1.10'

ELEV. AT GRADE:	ELEV. AT TOP:	ELEV. AT BOTTOM:
[redacted]	21.48'	20

APPROX. STATION:	OFFSET DISTANCE:	OFFSET DIRECTION:	UTILITY DIRECTION:
[redacted]	30.33'	RT	

NORTHING:	EASTING:	STATE PLANE ZONE:

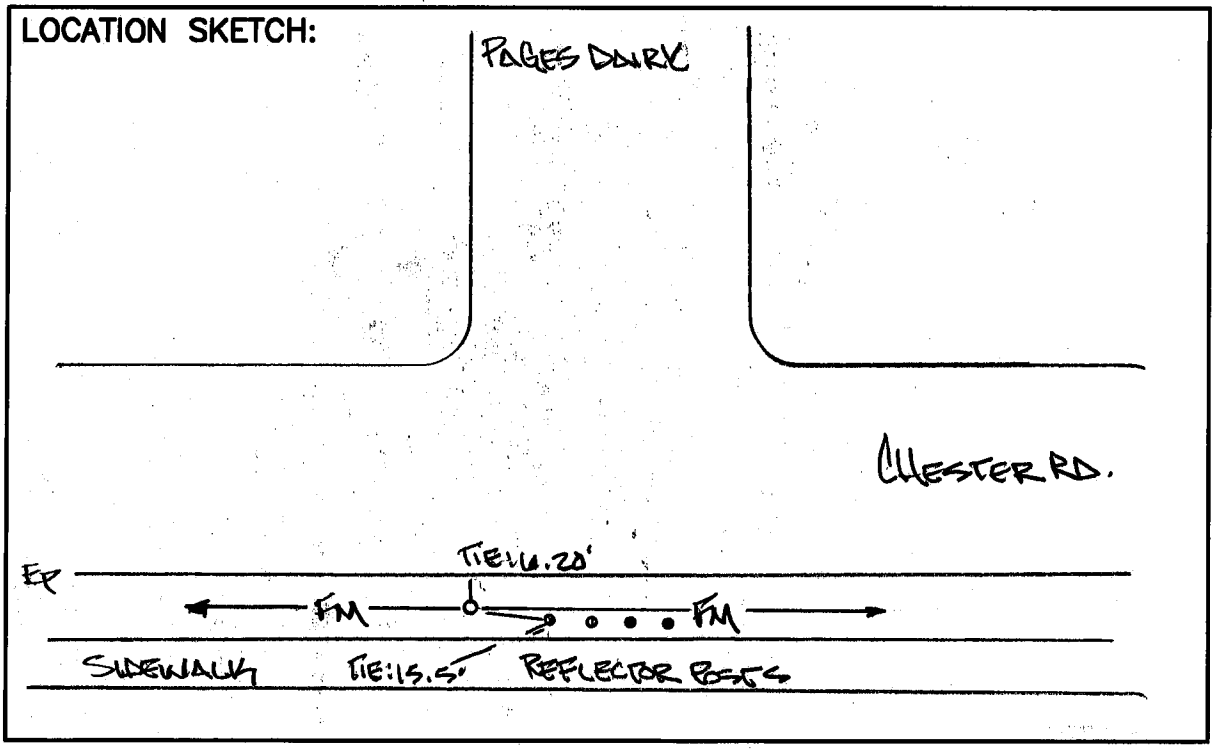
UTILITY/CONTRACTOR LOCATOR CONTACT:

POLE #:

EH #:

TYPE OF UTILITY	MATERIAL
E - ELECTRICAL G - GAS BT - BURIED TELEPHONE FOC - FIBER OPTIC CABLE W - WATER SAN - SANITARY SEWER STM - STORM SEWER CATV - CABLE TELEVISION (FM) - FORCE MAIN RW - RECLAIMED WATER OTHER_____	1 - STEEL (2) - PVC (POLYVINYL CHLORIDE) 3 - DIP (DUCTILE IRON PIPE) 4 - VCP (VITRIFIED CLAY PIPE) 5 - PEP (POLYETHYLENE PIPE) 6 - AC(ASBESTOS C./TRANSITE) 7 - CI (CAST IRON) 8 - DBC(DIRECT BURIED CABLE) 9 - CONCRETE PIPE 10 - CORRUGATED METAL PIPE 11 - DUCT OTHER_____
IDENTIFIED BY	**DISTANCE PULLED FROM**
20 - SLEEVE 21 - HUB/LATH 22 - NAIL/DISK* 23 - "X" IN CONCRETE 24 - SWING TIES (25) - SIRC 5/8"** OTHER_____ *NOTE: 22-SET NAIL AND DISK STAMPED "DRMP REF. PT." **NOTE: 25-SET IRON R&CAP STAMPED "DRMP REF. PT."	(30) - EDGE OF PAVEMENT 31 - BASELINE 32 - RIGHT-OF-WAY 33 - CENTERLINE 34 - BACK OF CURB 35 - SURVEY HUB 36 - "X" IN CONCRETE OTHER REFLECTOR POST JOB UNITS: (ENGLISH) or METRIC

LOCATION SKETCH:



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VACUUM EXCAVATION RECORD

CAMERA #: 5

CREW: HIRES, JASMIN, O'ROURKE

PROJECT: CHESTER RD

DATE: 11/30/20

DRMP#: 16-0210.001

CITY/COUNTY: NASSAU

ONE-CALL #: 329000666

F.P.N.#:

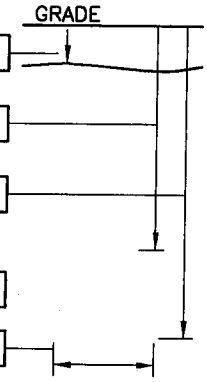
HOLE#: VVH 524

UTILITY FOUND: FM- 12"-PVC

GROUND: ASPHALT CONCRETE (DIRT) OTHER

SOIL CONDITION: (HARD) SOFT WET (DRY) SAND (DIRT) (CLAY) (ROCK)

VERTICAL INFORMATION:



PAVING THICKNESS:	0'
DEPTH TO TOP OF UTILITY:	6.51'
DEPTH TO BOTTOM OF UTILITY:	7.59'
EXPECTED WIDTH OF UTILITY:	N/A
MEASURED WIDTH OF UTILITY:	1.08'

ELEV. AT GRADE:	ELEV. AT TOP:	ELEV. AT BOTTOM:
[redacted]	21.15'	20

APPROX. STATION:	OFFSET DISTANCE:	OFFSET DIRECTION:	UTILITY DIRECTION:
[redacted]+41.93	26.60'	RT	SW – NE

NORTHING:	EASTING:	STATE PLANE ZONE:
[redacted]		

UTILITY OWNER/CONTRACTOR LOCATOR CONTACT: [redacted] UEA

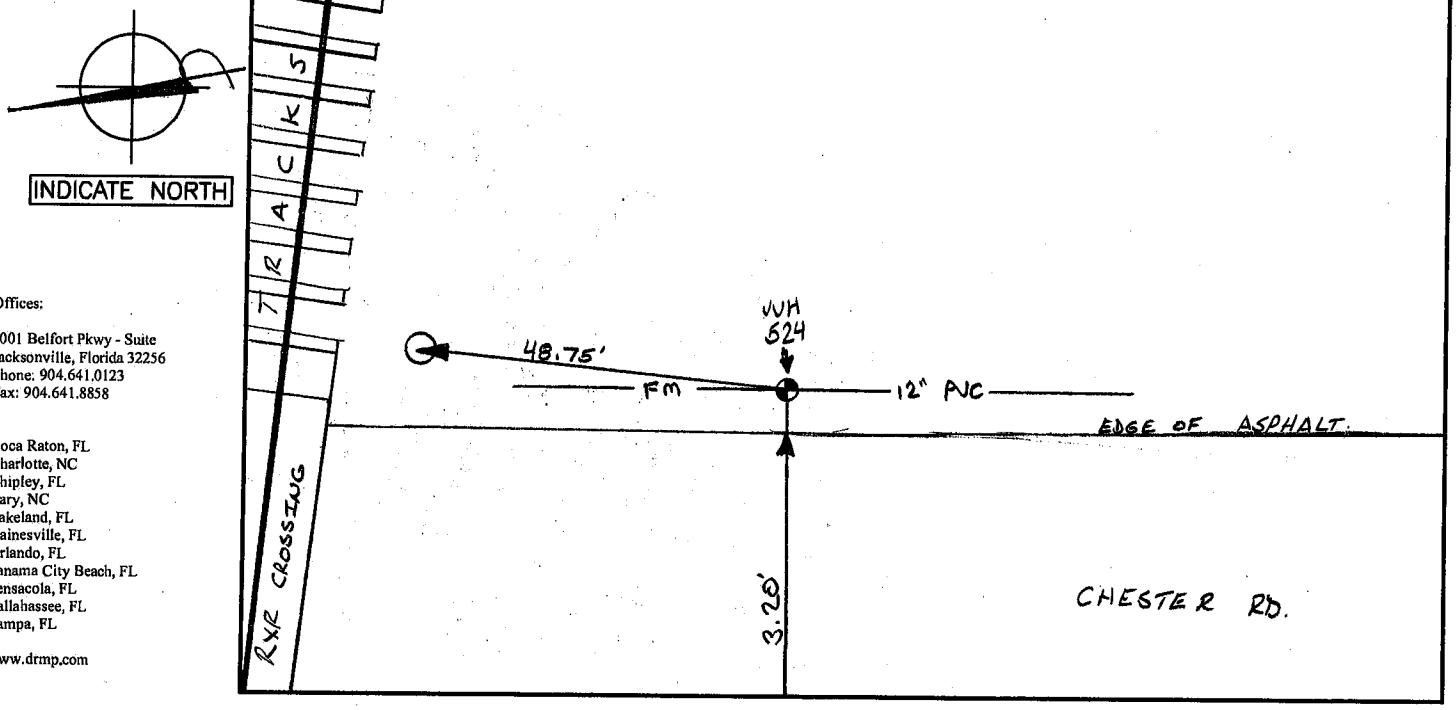
POLE #: N/A

EH #: TH 16

TYPE OF UTILITY	MATERIAL
E - ELECTRICAL	1 - STEEL
G - GAS	(2) PVC (POLYVINYL CHLORIDE)
BT - BURIED TELEPHONE	3 - DIP (DUCTILE IRON PIPE)
FOC - FIBER OPTIC CABLE	4 - VCP (VITRIFIED CLAY PIPE)
W - WATER	5 - PEP (POLYETHYLENE PIPE)
SAN - SANITARY SEWER	6 - AC(ASBESTOS C./TRANSITE)
STM - STORM SEWER	7 - CI (CAST IRON)
CATV - CABLE TELEVISION	8 - DBC(DIRECT BURIED CABLE)
(FM) - FORCE MAIN	9 - CONCRETE PIPE
RW - RECLAIMED WATER	10 - CORRUGATED METAL PIPE
OTHER_____	11 - DUCT
	OTHER_____

IDENTIFIED BY	DISTANCE PULLED FROM
20 - SLEEVE	(30) EDGE OF PAVEMENT
21 - HUB/LATH	31 - BASELINE
22 - NAIL/DISK*	32 - RIGHT-OF-WAY
23 - "X" IN CONCRETE	33 - CENTERLINE
24 - SWING TIES	34 - BACK OF CURB
(25) SIRC 5/8"**	35 - SURVEY HUB
OTHER_____	36 - "X" IN CONCRETE
*NOTE: 22-SET NAIL AND DISK STAMPED "DRMP REF. PT."	(OTHER) RXR CROSSING SIGNAL / ARM MAST POLE
**NOTE: 25-SET IRON R&CAP STAMPED "DRMP REF. PT."	JOB UNITS: (ENGLISH) or METRIC

LOCATION SKETCH:



Offices:

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CHESTER RD.

DRMP # 16-0210.001



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VACUUM EXCAVATION RECORD

CAMERA #: 5

CREW: HIRES, JASMIN, O'ROURKE

PROJECT: CHESTER RD

DATE: 11/30/20

DRMP#: 16-0210.001

CITY/COUNTY: NASSAU

ONE-CALL #: 329000666

F.P.N.#:

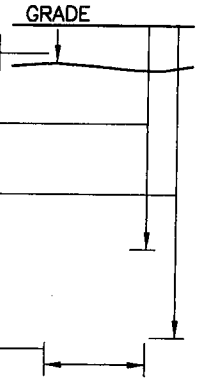
HOLE#: VH 525

UTILITY FOUND: FM-12"-PVC

GROUND: ASPHALT CONCRETE (DIRT) OTHER

SOIL CONDITION: (HARD) SOFT WET (DRY) SAND (DIRT) (CLAY) (ROCK)

VERTICAL INFORMATION:



PAVING THICKNESS:	0'
DEPTH TO TOP OF UTILITY:	3.53'
DEPTH TO BOTTOM OF UTILITY:	4.61'
EXPECTED WIDTH OF UTILITY:	N/A
MEASURED WIDTH OF UTILITY:	1.08

ELEV. AT GRADE:	ELEV. AT TOP:	ELEV. AT BOTTOM:
[redacted]	24.67'	23

APPROX. STATION:	OFFSET DISTANCE:	OFFSET DIRECTION:	UTILITY DIRECTION:
[redacted]	24.37'	R	SW—NE

NORTHING:	EASTING:	STATE PLANE ZONE:

UTILITY OWNER/CONTRACTOR LOCATOR CONTACT: JEA

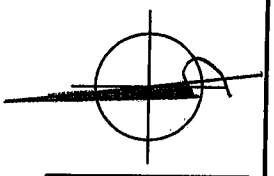
POLE #: N/A

EH #: TH 15

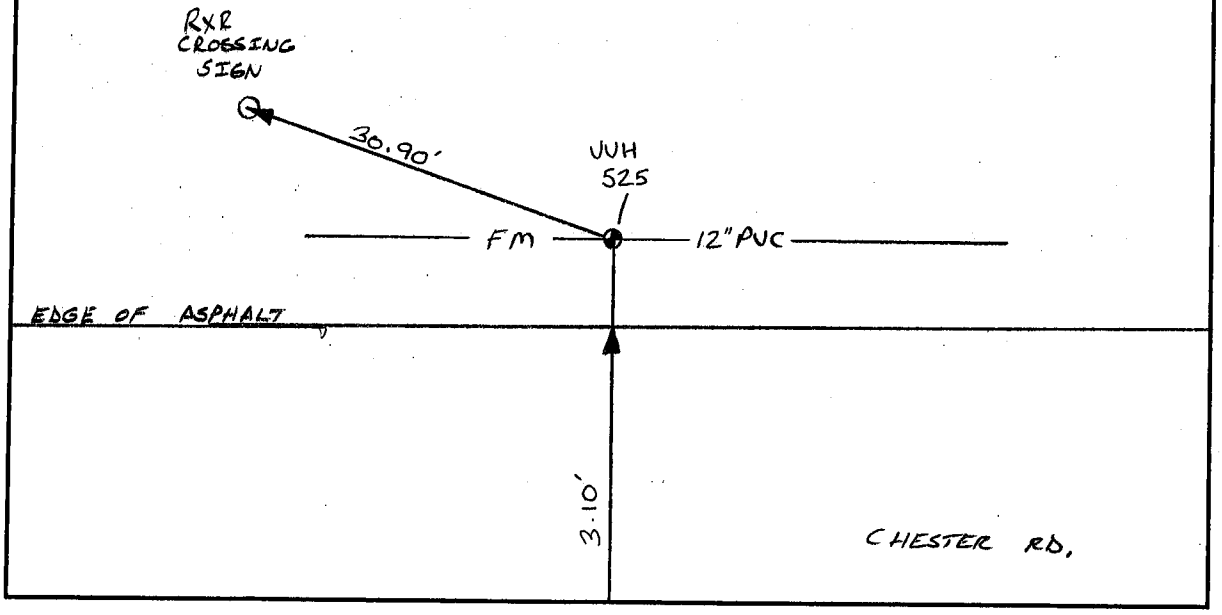
TYPE OF UTILITY	MATERIAL
E - ELECTRICAL	1 - STEEL
G - GAS	(2) PVC (POLYVINYL CHLORIDE)
BT - BURIED TELEPHONE	3 - DIP (DUCTILE IRON PIPE)
FOC - FIBER OPTIC CABLE	4 - VCP (VITRIFIED CLAY PIPE)
W - WATER	5 - PEP (POLYETHYLENE PIPE)
SAN - SANITARY SEWER	6 - AC(ASBESTOS C./TRANSITE)
STM - STORM SEWER	7 - CI (CAST IRON)
CATV - CABLE TELEVISION	8 - DBC(DIRECT BURIED CABLE)
(FM) - FORCE MAIN	9 - CONCRETE PIPE
RW - RECLAIMED WATER	10 - CORRUGATED METAL PIPE
OTHER_____	11 - DUCT
	OTHER_____

IDENTIFIED BY	DISTANCE PULLED FROM
20 - SLEEVE	(30) - EDGE OF PAVEMENT
21 - HUB/LATH	31 - BASELINE
22 - NAIL/DISK*	32 - RIGHT-OF-WAY
23 - "X" IN CONCRETE	33 - CENTERLINE
24 - SWING TIES	34 - BACK OF CURB
(25) - SIRC 5/8"**	35 - SURVEY HUB
OTHER_____	36 - "X" IN CONCRETE
*NOTE: 22—SET NAIL AND DISK STAMPED "DRMP REF. PT."	(OTHER) RXR SIGN
**NOTE: 25—SET IRON R&CAP STAMPED "DRMP REF. PT."	JOB UNITS: (ENGLISH) or METRIC

LOCATION SKETCH: 500'+/- SW OF PAGES DAIRY RD.



INDICATE NORTH



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CHESTER RD.

DRMP # 16-0210.001



VVH 525

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VVH 525

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VACUUM EXCAVATION RECORD

CAMERA #: 5 | CREW: HIRES, O'ROURKE

PROJECT: CHESTER RD. | DATE: 12/7/20 | DRMP#: 16-0210.001

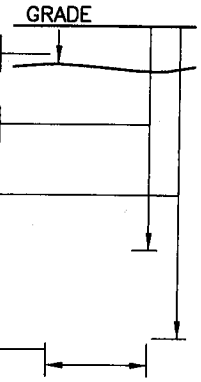
CITY/COUNTY: NASSAU | ONE-CALL #: 329000666 | F.P.N.#:

HOLE#: VVH526 | UTILITY FOUND: WM - 18"-PVC

GROUND: ASPHALT CONCRETE (DIRT) OTHER

SOIL CONDITION: HARD (SOFT) WET (DRY) SAND (DIRT) (CLAY) ROCKY

VERTICAL INFORMATION:



PAVING THICKNESS:	0'
DEPTH TO TOP OF UTILITY:	3.18
DEPTH TO BOTTOM OF UTILITY:	4.68
EXPECTED WIDTH OF UTILITY:	1.50'
MEASURED WIDTH OF UTILITY:	1.50'

ELEV. AT GRADE:	ELEV. AT TOP:	ELEV. AT BOTTOM:
[redacted]	23.88'	22

APPROX. STATION:	OFFSET DISTANCE:	OFFSET DIRECTION:	UTILITY DIRECTION:
[redacted]	29.15'	[redacted]	SW - NE

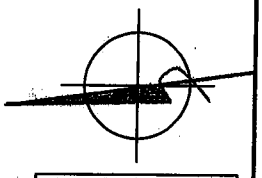
NORTHING:	EASTING:	STATE PLANE ZONE:

UTILITY OWNER/CONTRACTOR LOCATOR CONTACT: JEA | POLE #: N/A | EH #: TH 21

TYPE OF UTILITY	MATERIAL
E - ELECTRICAL	1 - STEEL
G - GAS	(2) PVC (POLYVINYL CHLORIDE)
BT - BURIED TELEPHONE	3 - DIP (DUCTILE IRON PIPE)
FOC - FIBER OPTIC CABLE	4 - VCP (VITRIFIED CLAY PIPE)
(W) - WATER	5 - PEP (POLYETHYLENE PIPE)
SAN - SANITARY SEWER	6 - AC(ASBESTOS C./TRANSITE)
STM - STORM SEWER	7 - CI (CAST IRON)
CATV - CABLE TELEVISION	8 - DBC(DIRECT BURIED CABLE)
FM - FORCE MAIN	9 - CONCRETE PIPE
RW - RECLAIMED WATER	10 - CORRUGATED METAL PIPE
OTHER_____	11 - DUCT
	OTHER_____

IDENTIFIED BY	DISTANCE PULLED FROM
20 - SLEEVE	(30) EDGE OF PAVEMENT
21 - HUB/LATH	31 - BASELINE
22 - NAIL/DISK*	32 - RIGHT-OF-WAY
23 - "X" IN CONCRETE	33 - CENTERLINE
24 - SWING TIES	34 - BACK OF CURB
(25) SIRC 5/8"**	35 - SURVEY HUB
OTHER_____	36 - "X" IN CONCRETE
*NOTE: 22-SET NAIL AND DISK STAMPED "DRMP REF. PT."	OTHER FIRE HYDRANT
**NOTE: 25-SET IRON R&CAP STAMPED "DRMP REF. PT."	JOB UNITS: (ENGLISH) or METRIC

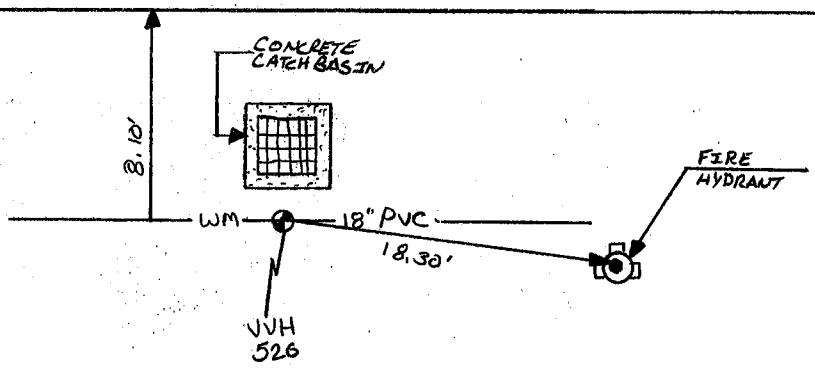
LOCATION SKETCH: 100' NE OF PAGES DAIRY RD.



INDICATE NORTH

CHESTER RD.

EDGE OF ASPHALT



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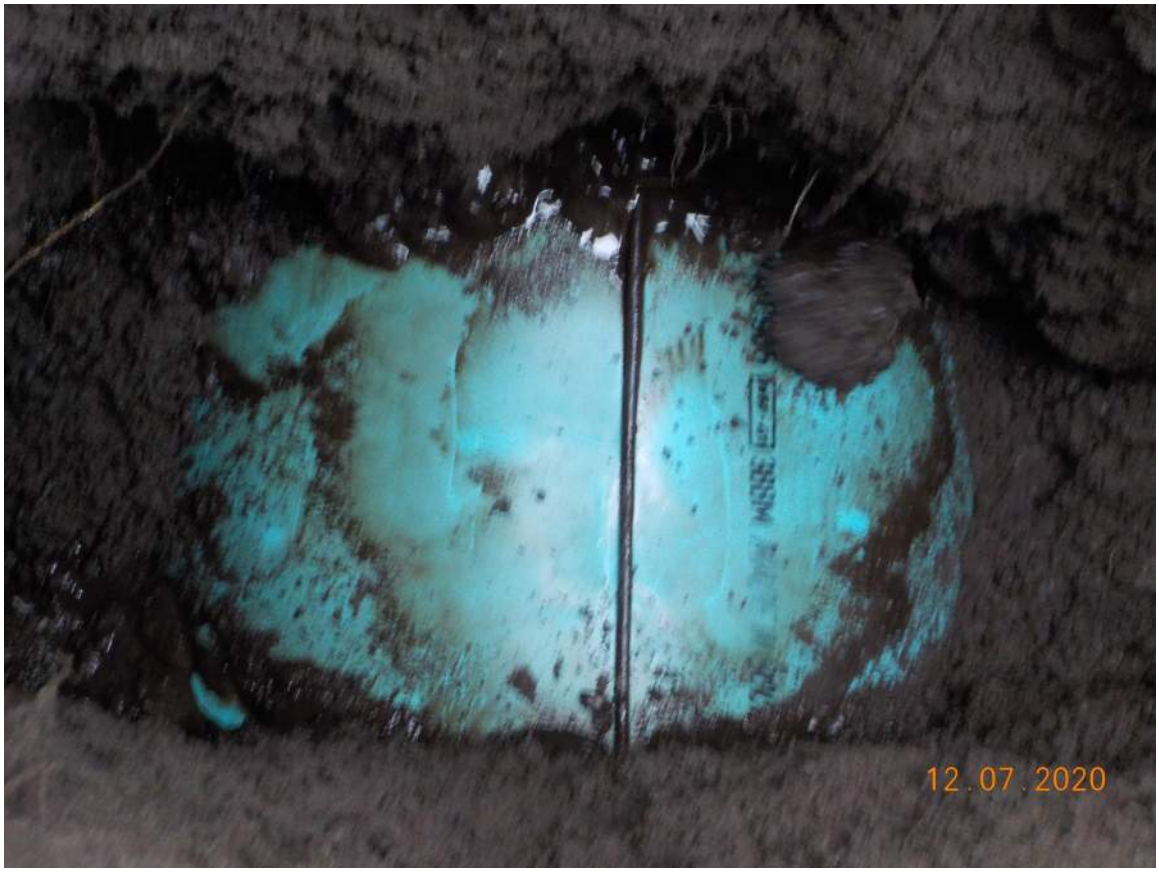
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CHESTER RD.

DRMP # 16-0210.001



VVH 526

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VVH 526

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VACUUM EXCAVATION RECORD

CAMERA #: 5 | CREW: HIRES, O'ROURKE

PROJECT: CHESTER RD. | DATE: 12/7/20 | DRMP#: 16-0210.001

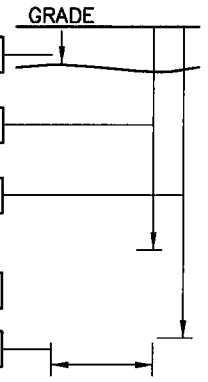
CITY/COUNTY: NASSAU | ONE-CALL #: 329000666 | F.P.N.#:

HOLE#: WH 527 | UTILITY FOUND: FM-12"-PVC

GROUND: ASPHALT (CONCRETE) DIRT OTHER

SOIL CONDITION: (HARD) SOFT WET (DRY) SAND (DIRT) (CLAY) ROCKY

VERTICAL INFORMATION:



PAVING THICKNESS:	0.35'
DEPTH TO TOP OF UTILITY:	3.96'
DEPTH TO BOTTOM OF UTILITY:	5.04'
EXPECTED WIDTH OF UTILITY:	1.08'
MEASURED WIDTH OF UTILITY:	1.08'

ELEV. AT GRADE:	ELEV. AT TOP:	ELEV. AT BOTTOM:
[redacted]	23.14'	[redacted]

APPROX. STATION:	OFFSET DISTANCE:	OFFSET DIRECTION:	UTILITY DIRECTION:
[redacted] 46.57	37.23'	RT	SW-NE

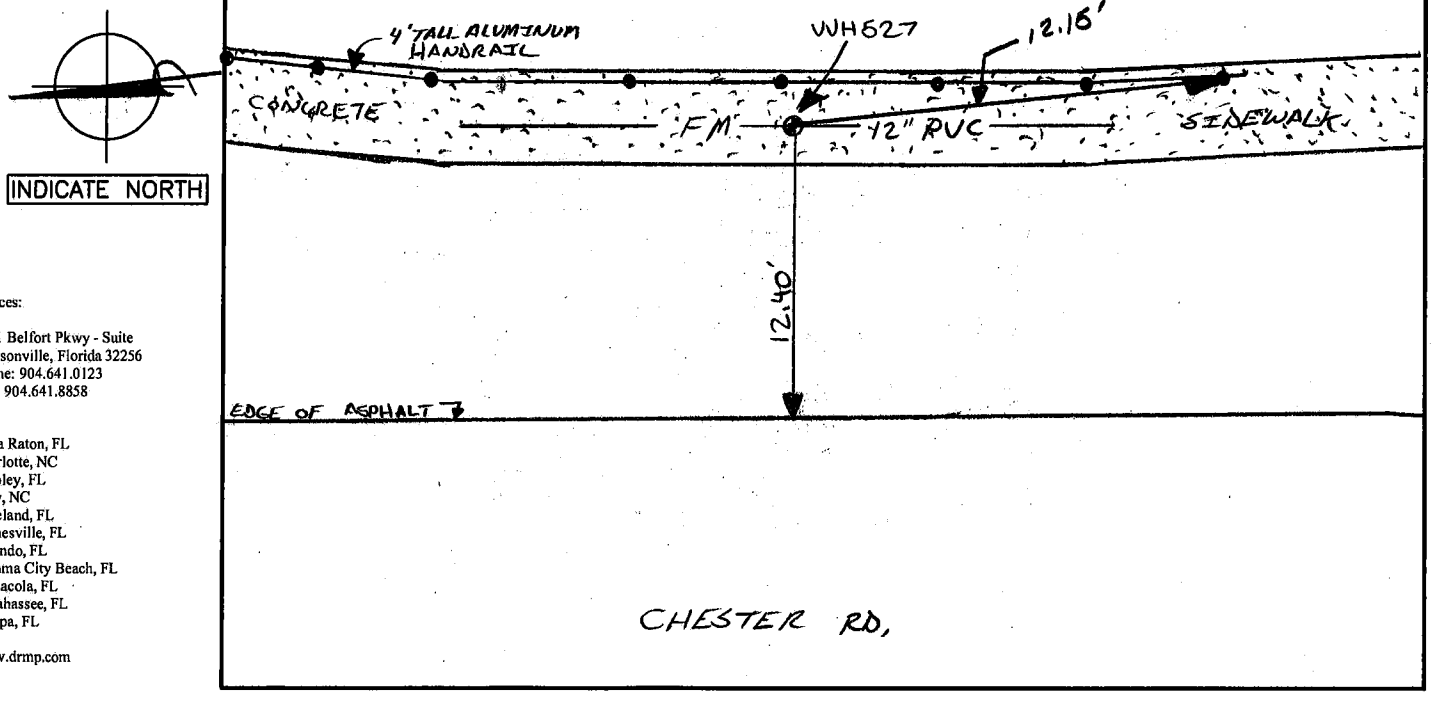
NORTHING:	EASTING:	STATE PLANE ZONE:

UTILITY OWNER/CONTRACTOR LOCATOR CONTACT:	POLE #:	EH #:
JEA	N/A	TH20

TYPE OF UTILITY	MATERIAL
E - ELECTRICAL	1 - STEEL
G - GAS	(2) PVC (POLYVINYL CHLORIDE)
BT - BURIED TELEPHONE	3 - DIP (DUCTILE IRON PIPE)
FOC - FIBER OPTIC CABLE	4 - VCP (VITRIFIED CLAY PIPE)
W - WATER	5 - PEP (POLYETHYLENE PIPE)
SAN - SANITARY SEWER	6 - AC(ASBESTOS C./TRANSITE)
STM - STORM SEWER	7 - CI (CAST IRON)
CATV - CABLE TELEVISION	8 - DBC(DIRECT BURIED CABLE)
(FM) - FORCE MAIN	9 - CONCRETE PIPE
RW - RECLAIMED WATER	10 - CORRUGATED METAL PIPE
OTHER_____	11 - DUCT
	OTHER_____

IDENTIFIED BY	DISTANCE PULLED FROM
20 - SLEEVE	(30) EDGE OF PAVEMENT
21 - HUB/LATH	31 - BASELINE
22 - NAIL/DISK*	32 - RIGHT-OF-WAY
(23) - "X" IN CONCRETE	33 - CENTERLINE
24 - SWING TIES	34 - BACK OF CURB
25 - SIRC 5/8"**	35 - SURVEY HUB
OTHER_____	36 - "X" IN CONCRETE
*NOTE: 22-SET NAIL AND DISK STAMPED "DRMP REF. PT."	(OTHER) FURTHEREST SOUTH POST OF ALUMINUM HANDRAIL
**NOTE: 25-SET IRON R&CAP STAMPED "DRMP REF. PT."	JOB UNITS: (ENGLISH) or METRIC

LOCATION SKETCH: 100' NW OF PAGES DAIRY RD.



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CHESTER RD.

DRMP # 16-0210.001



VVH 527

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VACUUM EXCAVATION RECORD

CAMERA #: 5 | CREW: HIRES, O'ROURKE

PROJECT: CHESTER RD. | DATE: 12/7/20 | DRMP#: 16-0210.001

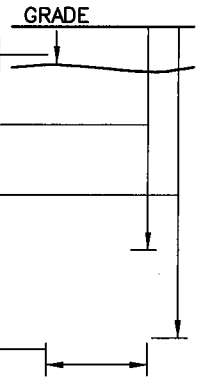
CITY/COUNTY: NASSAU | ONE-CALL #: 329000660 | F.P.N.#:

HOLE#: VUH 528 | UTILITY FOUND: FOC - 1 1/2" - PE

GROUND: (ASPHALT) CONCRETE DIRT OTHER

SOIL CONDITION: (HARD) SOFT WET (DRY) SAND (DIRT) (CLAY) ROCKY

VERTICAL INFORMATION:



PAVING THICKNESS:	0.50'
DEPTH TO TOP OF UTILITY:	3.37'
DEPTH TO BOTTOM OF UTILITY:	3.53'
EXPECTED WIDTH OF UTILITY:	N/A
MEASURED WIDTH OF UTILITY:	0.16'

ELEV. AT GRADE:	ELEV. AT TOP:	ELEV. AT BOTTOM:
[redacted]	24.31'	24 [redacted]

APPROX. STATION:	OFFSET DISTANCE:	OFFSET DIRECTION:	UTILITY DIRECTION:
[redacted] 64.37	15.24'	[redacted]	SW-NE

NORTHING:	EASTING:	STATE PLANE ZONE:

UTILITY OWNER/CONTRACTOR LOCATOR CONTACT: HOTWIRE COMMUNICATIONS

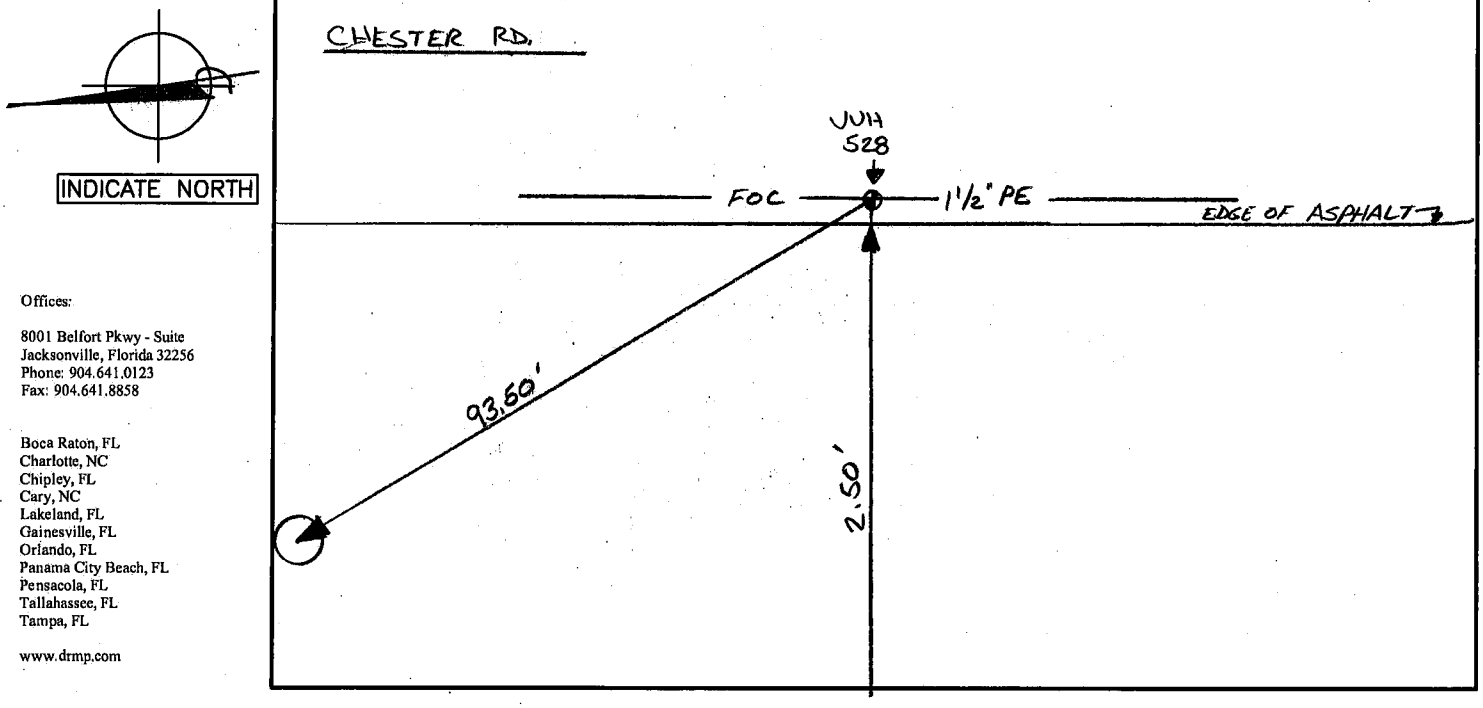
POLE #: N/A

EH #: TH2

TYPE OF UTILITY	MATERIAL
E - ELECTRICAL	1 - STEEL
G - GAS	2 - PVC (POLYVINYL CHLORIDE)
BT - BURIED TELEPHONE	3 - DIP (DUCTILE IRON PIPE)
(FOC) - FIBER OPTIC CABLE	4 - VCP (VITRIFIED CLAY PIPE)
W - WATER	(5) - PEP (POLYETHYLENE PIPE)
SAN - SANITARY SEWER	6 - AC(ASBESTOS C./TRANSITE)
STM - STORM SEWER	7 - CI (CAST IRON)
CATV - CABLE TELEVISION	8 - DBC(DIRECT BURIED CABLE)
FM - FORCE MAIN	9 - CONCRETE PIPE
RW - RECLAIMED WATER	10 - CORRUGATED METAL PIPE
OTHER_____	11 - DUCT
	OTHER_____

IDENTIFIED BY	DISTANCE PULLED FROM
20 - SLEEVE	(30) - EDGE OF PAVEMENT
21 - HUB/LATH	31 - BASELINE
(22) - NAIL/DISK*	32 - RIGHT-OF-WAY
23 - "X" IN CONCRETE	33 - CENTERLINE
24 - SWING TIES	34 - BACK OF CURB
25 - SIRC 5/8"**	35 - SURVEY HUB
OTHER_____	36 - "X" IN CONCRETE
*NOTE: 22-SET NAIL AND DISK STAMPED "DRMP REF. PT."	(OTHER) POWER POLE
**NOTE: 25-SET IRON R&CAP STAMPED "DRMP REF. PT."	JOB UNITS: (ENGLISH) or METRIC

LOCATION SKETCH: 200' NORTH OF PAGES DAIRY RD.



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VACUUM EXCAVATION RECORD

CAMERA #: 5

CREW: HIRES, KNIGHT, O'ROURKE

PROJECT: CHESTER RD.

DATE: 12/8/20

DRMP#: 16-0210.001

CITY/COUNTY: NASSAU

ONE-CALL #: 329000660

F.P.N.#:

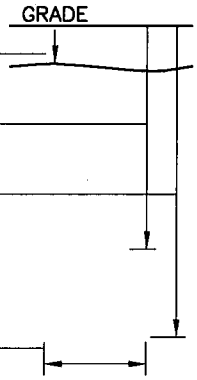
HOLE#: VUH 529

UTILITY FOUND: FM-12"-PVC

GROUND: (ASPHALT) CONCRETE DIRT OTHER

SOIL CONDITION: (HARD) SOFT WET (DRY) (SAND) (DIRT) (CLAY) (ROCKY)

VERTICAL INFORMATION:



PAVING THICKNESS:	0.30'
DEPTH TO TOP OF UTILITY:	4.29
DEPTH TO BOTTOM OF UTILITY:	5.37'
EXPECTED WIDTH OF UTILITY:	1.08
MEASURED WIDTH OF UTILITY:	1.08

ELEV. AT GRADE:	ELEV. AT TOP:	ELEV. AT BOTTOM:
[redacted]	25.62'	24.5

APPROX. STATION:	OFFSET DISTANCE:	OFFSET DIRECTION:	UTILITY DIRECTION:
[redacted] 00.71	25.74'	[redacted]	SW—NE

NORTHING:	EASTING:	STATE PLANE ZONE:

UTILITY OWNER/CONTRACTOR LOCATOR CONTACT: JEA

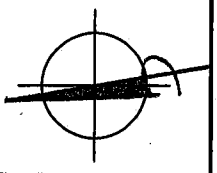
POLE #: N/A

EH #: TH7

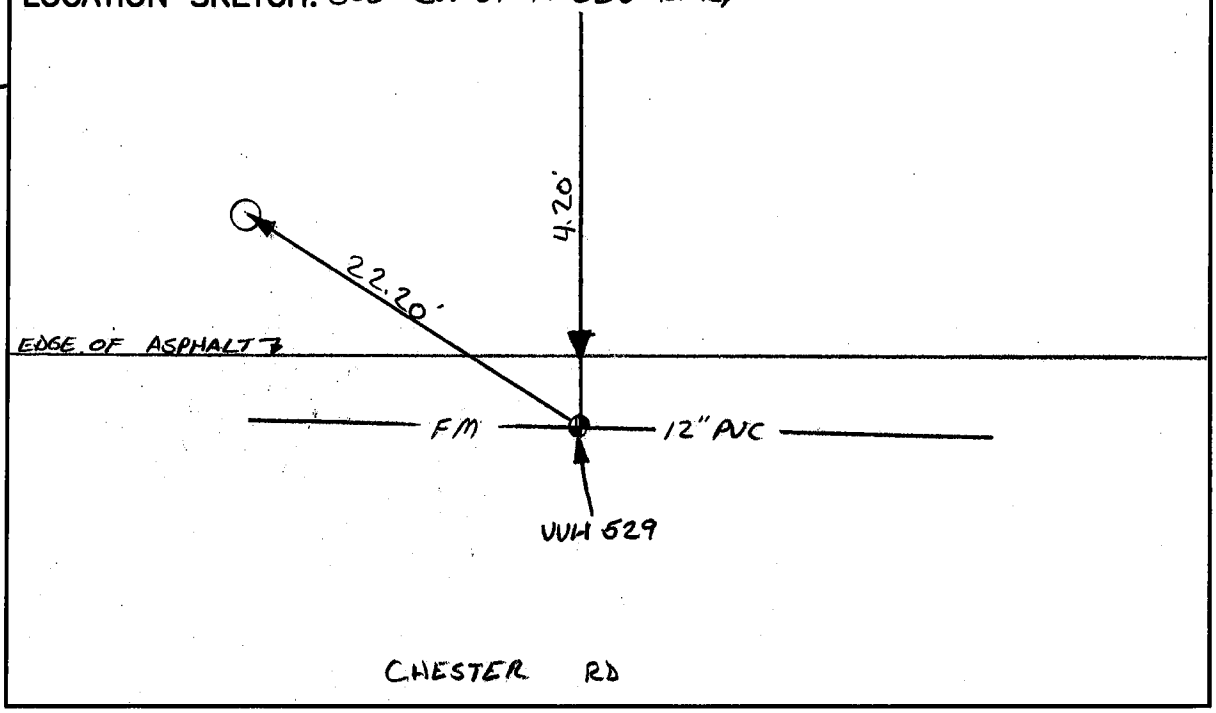
TYPE OF UTILITY	MATERIAL
E - ELECTRICAL	1 - STEEL
G - GAS	(2) PVC (POLYVINYL CHLORIDE)
BT - BURIED TELEPHONE	3 - DIP (DUCTILE IRON PIPE)
FOC - FIBER OPTIC CABLE	4 - VCP (VITRIFIED CLAY PIPE)
W - WATER	5 - PEP (POLYETHYLENE PIPE)
SAN - SANITARY SEWER	6 - AC(ASBESTOS C./TRANSITE)
STM - STORM SEWER	7 - CI (CAST IRON)
CATV - CABLE TELEVISION	8 - DBC(DIRECT BURIED CABLE)
(FM) - FORCE MAIN	9 - CONCRETE PIPE
RW - RECLAIMED WATER	10 - CORRUGATED METAL PIPE
OTHER_____	11 - DUCT
	OTHER_____

IDENTIFIED BY	DISTANCE PULLED FROM
20 - SLEEVE	(30) - EDGE OF PAVEMENT
21 - HUB/LATH	31 - BASELINE
(22) - NAIL/DISK*	32 - RIGHT-OF-WAY
23 - "X" IN CONCRETE	33 - CENTERLINE
24 - SWING TIES	34 - BACK OF CURB
25 - SIRC 5/8"**	35 - SURVEY HUB
OTHER_____	36 - "X" IN CONCRETE
*NOTE: 22-SET NAIL AND DISK STAMPED "DRMP REF. PT."	(OTHER) SIGN POST
**NOTE: 25-SET IRON R&CAP STAMPED "DRMP REF. PT."	JOB UNITS: (ENGLISH) or METRIC

LOCATION SKETCH: 500' SW OF PAGES DAIRY



INDICATE NORTH



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CHESTER RD.

DRMP # 16-0210.001



VVH 529

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CAMERA #: 5

VACUUM EXCAVATION RECORD

PROJECT: CHESTER RD.

DATE: 12/8/20

CREW: HIRES, KNIGHT, O'ROURKE

CITY/COUNTY: NASSAU

ONE-CALL #: 329000666

FPN/DRMP #: 16-0210.001

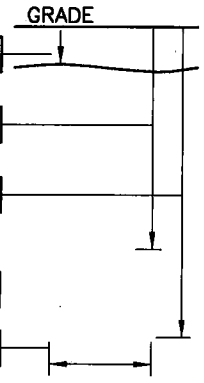
HOLE #: VVH530

UTILITY FOUND: WM - 18"- PVC

GROUND: (ASPHALT) CONCRETE DIRT OTHER

SOIL CONDITION: (HARD) SOFT WET (DRY) (SAND) (DIRT) (CLAY) (ROCKY)

VERTICAL INFORMATION:



PAVING THICKNESS:	0.30'
DEPTH TO TOP OF UTILITY:	3.60'
DEPTH TO BOTTOM OF UTILITY:	5.10'
EXPECTED WIDTH OF UTILITY:	1.50
MEASURED WIDTH OF UTILITY:	1.50

ELEV. AT GRADE:	ELEV. AT TOP:	ELEV. AT BOTTOM:
[redacted]	25.59'	[redacted]

APPROX. STATION:	OFFSET DISTANCE:	OFFSET DIRECTION:	UTILITY DIRECTION:
[redacted] 99.10	34.75'	[redacted]	SW—NE

NORTHING:	EASTING:	STATE PLANE ZONE:

UTILITY/CONTRACTOR LOCATOR CONTACT: JEA

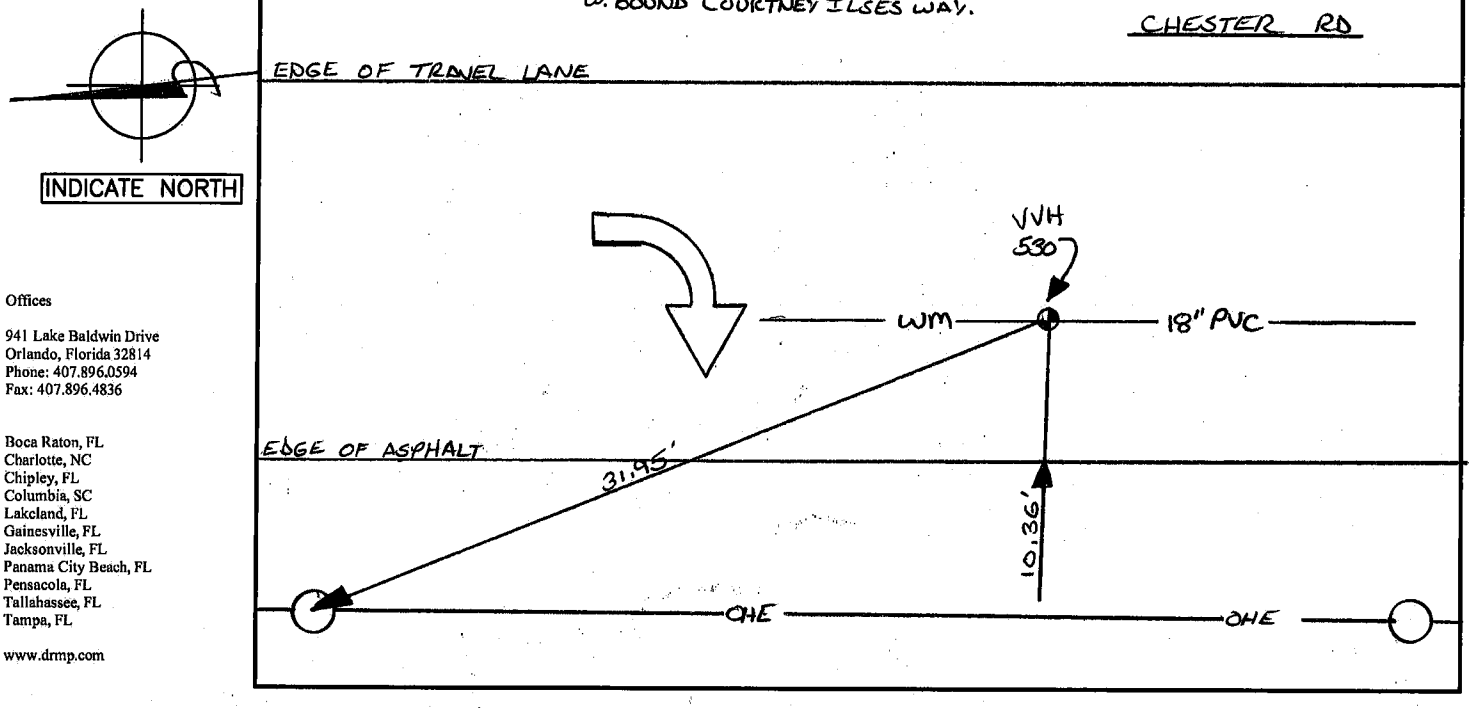
POLE #: N/A

EH #: TH6

TYPE OF UTILITY	MATERIAL
E - ELECTRICAL	1 - STEEL
G - GAS	(2) - PVC (POLYVINYL CHLORIDE)
BT - BURIED TELEPHONE	3 - DIP (DUCTILE IRON PIPE)
FOC - FIBER OPTIC CABLE	4 - VCP (VITRIFIED CLAY PIPE)
(W) - WATER	5 - PEP (POLYETHYLENE PIPE)
SAN - SANITARY SEWER	6 - AC(ASBESTOS C./TRANSITE)
STM - STORM SEWER	7 - CI (CAST IRON)
CATV - CABLE TELEVISION	8 - DBC(DIRECT BURIED CABLE)
FM - FORCE MAIN	9 - CONCRETE PIPE
RW - RECLAIMED WATER	10 - CORRUGATED METAL PIPE
OTHER_____	11 - DUCT
	OTHER_____

IDENTIFIED BY	DISTANCE PULLED FROM
20 - SLEEVE	(30) - EDGE OF PAVEMENT
21 - HUB/LATH	31 - BASELINE
22 - NAIL/DISK*	32 - RIGHT-OF-WAY
(23) - X" IN CONCRETE	33 - CENTERLINE
24 - SWING TIES	34 - BACK OF CURB
25 - SIRC 5/8"**	35 - SURVEY HUB
OTHER_____	36 - "X" IN CONCRETE
*NOTE: 22-SET NAIL AND DISK STAMPED "DRMP REF. PT."	(OTHER) POWER POLE
**NOTE: 25-SET IRON R&CAP STAMPED "DRMP REF. PT."	JOB UNITS: (ENGLISH) or METRIC

LOCATION SKETCH: TURN LANE FROM S.BOUND CHESTER RD. TO W. BOUND COURTNEY ILSES WAY.



Offices

941 Lake Baldwin Drive
Orlando, Florida 32814
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Fax: 407.896.4836

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CHESTER RD.

DRMP # 16-0210.001



VVH 530

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VVH 530

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VVH 530

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CAMERA #: 5

VACUUM EXCAVATION RECORD

PROJECT: CHESTER RD.

DATE: 12/8/20

CREW: HIRES, KNIGHT O'ROURKE

CITY/COUNTY: NASSAU

ONE-CALL #: 329000666

FPN/DRMP #: 16-0210.001

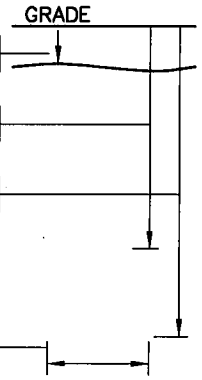
HOLE #: VJH 531

UTILITY FOUND: FM-12"-PVC

GROUND: (ASPHALT) CONCRETE DIRT OTHER

SOIL CONDITION: (HARD) SOFT WET (DRY) SAND DIRT (CLAY) (ROCKY)

VERTICAL INFORMATION:



PAVING THICKNESS:	0.30'
DEPTH TO TOP OF UTILITY:	5.18
DEPTH TO BOTTOM OF UTILITY:	6.26'
EXPECTED WIDTH OF UTILITY:	1.08'
MEASURED WIDTH OF UTILITY:	1.08

ELEV. AT GRADE:	ELEV. AT TOP:	ELEV. AT BOTTOM:
[redacted]	25.06'	[redacted]

APPROX. STATION:	OFFSET DISTANCE:	OFFSET DIRECTION:	UTILITY DIRECTION:
[redacted]	26.18'	RT	SW—NE

NORTHING:	EASTING:	STATE PLANE ZONE:

UTILITY/CONTRACTOR LOCATOR CONTACT: JEA

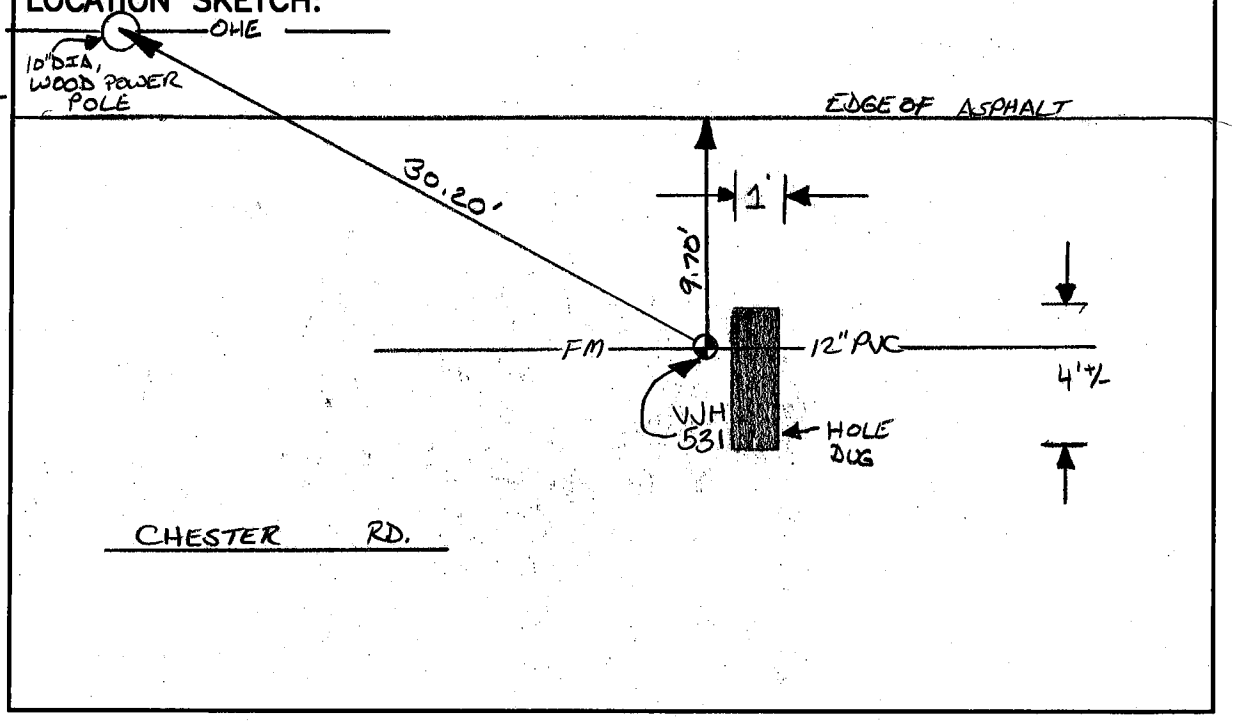
POLE #: N/A

EH #: TH 1

TYPE OF UTILITY	MATERIAL
E - ELECTRICAL	1 - STEEL
G - GAS	(2) PVC (POLYVINYL CHLORIDE)
BT - BURIED TELEPHONE	3 - DIP (DUCTILE IRON PIPE)
FOC - FIBER OPTIC CABLE	4 - VCP (VITRIFIED CLAY PIPE)
W - WATER	5 - PEP (POLYETHYLENE PIPE)
SAN - SANITARY SEWER	6 - AC(ASBESTOS C./TRANSITE)
STM - STORM SEWER	7 - CI (CAST IRON)
CATV - CABLE TELEVISION	8 - DBC(DIRECT BURIED CABLE)
(FM) - FORCE MAIN	9 - CONCRETE PIPE
RW - RECLAIMED WATER	10 - CORRUGATED METAL PIPE
OTHER_____	11 - DUCT
	OTHER_____

IDENTIFIED BY	DISTANCE PULLED FROM
20 - SLEEVE	(30) EDGE OF PAVEMENT
21 - HUB/LATH	31 - BASELINE
(22) NAIL/DISK*	32 - RIGHT-OF-WAY
23 - "X" IN CONCRETE	33 - CENTERLINE
24 - SWING TIES	34 - BACK OF CURB
25 - SIRC 5/8"**	35 - SURVEY HUB
OTHER_____	36 - "X" IN CONCRETE
*NOTE: 22-SET NAIL AND DISK STAMPED "DRMP REF. PT."	(OTHER) POWER POLE
**NOTE: 25-SET IRON R&CAP STAMPED "DRMP REF. PT."	JOB UNITS: (ENGLISH) or METRIC

LOCATION SKETCH:



INDICATE NORTH

Offices

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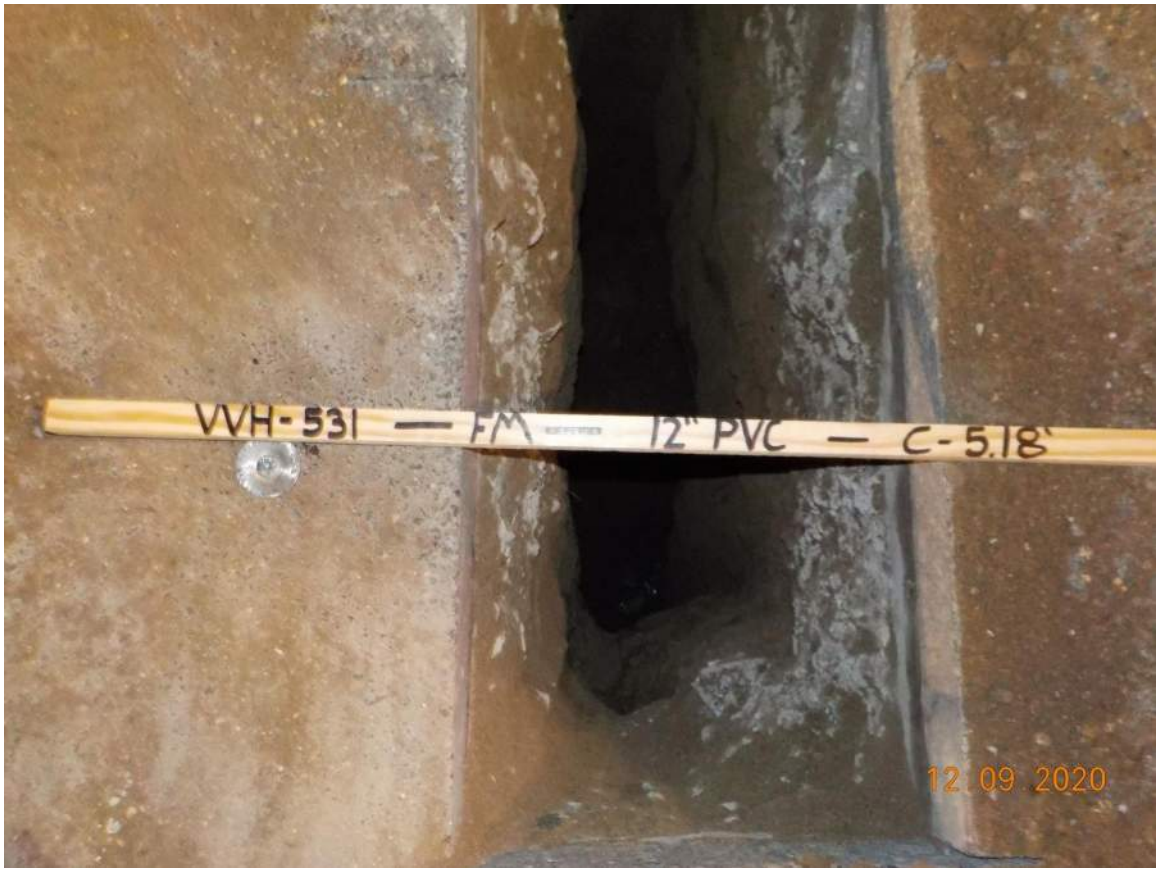
CHESTER RD.

DRMP # 16-0210.001



VVH 531

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VVH 531

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VACUUM EXCAVATION RECORD

CAMERA #: 5

PROJECT: CHESTER RD.

DATE: 12/9/20

CREW: HIRES, KNIGHT, O'ROURKE

CITY/COUNTY: NASSAU

ONE-CALL #: 329000666

FPN/DRMP #: 16-0210.001

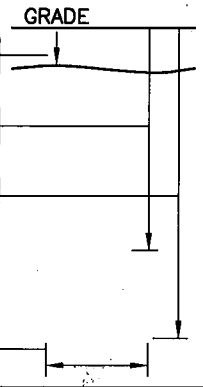
HOLE #: VVH532

UTILITY FOUND: FM- 12"-PVC.

GROUND: (ASPHALT) CONCRETE DIRT OTHER

SOIL CONDITION: (HARD) SOFT WET (DRY) (SAND) DIRT (CLAY) (ROCKY)

VERTICAL INFORMATION:



PAVING THICKNESS:	0.35'
DEPTH TO TOP OF UTILITY:	4.24'
DEPTH TO BOTTOM OF UTILITY:	5.32'
EXPECTED WIDTH OF UTILITY:	1.08'
MEASURED WIDTH OF UTILITY:	1.08'

ELEV. AT GRADE:	ELEV. AT TOP:	ELEV. AT BOTTOM:
[redacted]	26.03'	24.9

APPROX. STATION:	OFFSET DISTANCE:	OFFSET DIRECTION:	UTILITY DIRECTION:
[redacted] 57.32	25.99'	RT	SW — NE

NORTHING:	EASTING:	STATE PLANE ZONE:

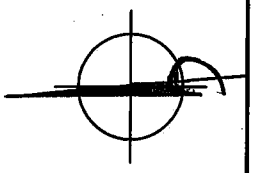
UTILITY/CONTRACTOR LOCATOR CONTACT: JEA

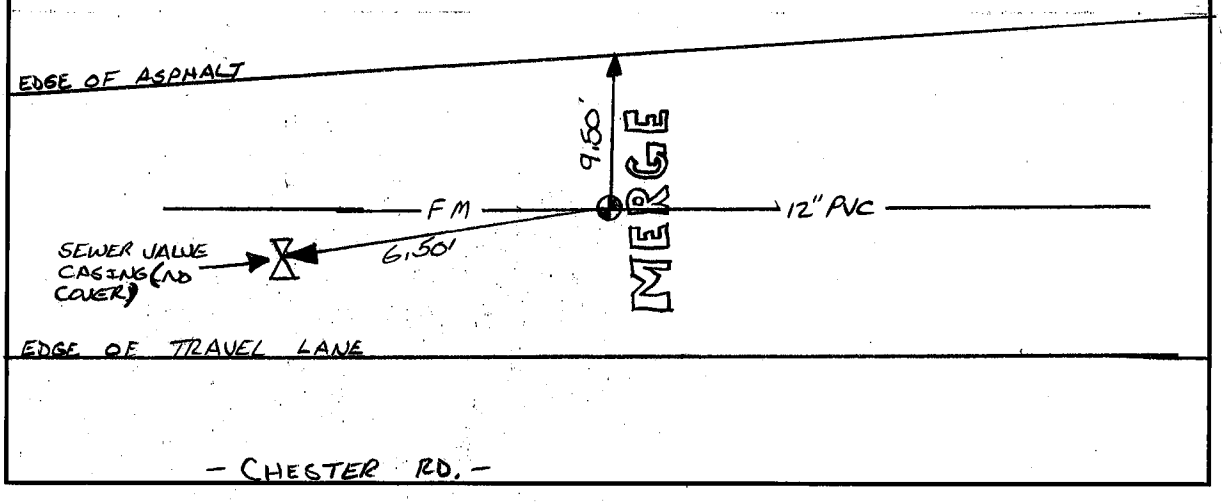
POLE #: N/A

EH #: TH5

TYPE OF UTILITY	MATERIAL
E - ELECTRICAL	1 - STEEL
G - GAS	(2) PVC (POLYVINYL CHLORIDE)
BT - BURIED TELEPHONE	3 - DIP (DUCTILE IRON PIPE)
FOC - FIBER OPTIC CABLE	4 - VCP (VITRIFIED CLAY PIPE)
W - WATER	5 - PEP (POLYETHYLENE PIPE)
SAN - SANITARY SEWER	6 - AC(ASBESTOS C./TRANSITE)
STM - STORM SEWER	7 - CI (CAST IRON)
CATV - CABLE TELEVISION	8 - DBC(DIRECT BURIED CABLE)
(FM) - FORCE MAIN	9 - CONCRETE PIPE
RW - RECLAIMED WATER	10 - CORRUGATED METAL PIPE
OTHER_____	11 - DUCT
	OTHER_____
IDENTIFIED BY	**DISTANCE PULLED FROM**
20 - SLEEVE	(30) EDGE OF PAVEMENT
21 - HUB/LATH	31 - BASELINE
(22) NAIL/DISK*	32 - RIGHT-OF-WAY
23 - "X" IN CONCRETE	33 - CENTERLINE
24 - SWING TIES	34 - BACK OF CURB
25 - SIRC 5/8"**	35 - SURVEY HUB
OTHER_____	36 - "X" IN CONCRETE
*NOTE: 22 - SET NAIL AND DISK STAMPED "DRMP REF. PT."	(OTHER) VALVE CASING FOR SEWER (NO COVER)
**NOTE: 25 - SET IRON R&CAP STAMPED "DRMP REF. PT."	JOB UNITS: ENGLISH or METRIC

LOCATION SKETCH: INTERSECTION OF CHESTER RD. + COURTNEY ISLES WAY.





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CHESTER RD.

DRMP # 16-0210.001



VVH 532

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VVH 532

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VVH 532

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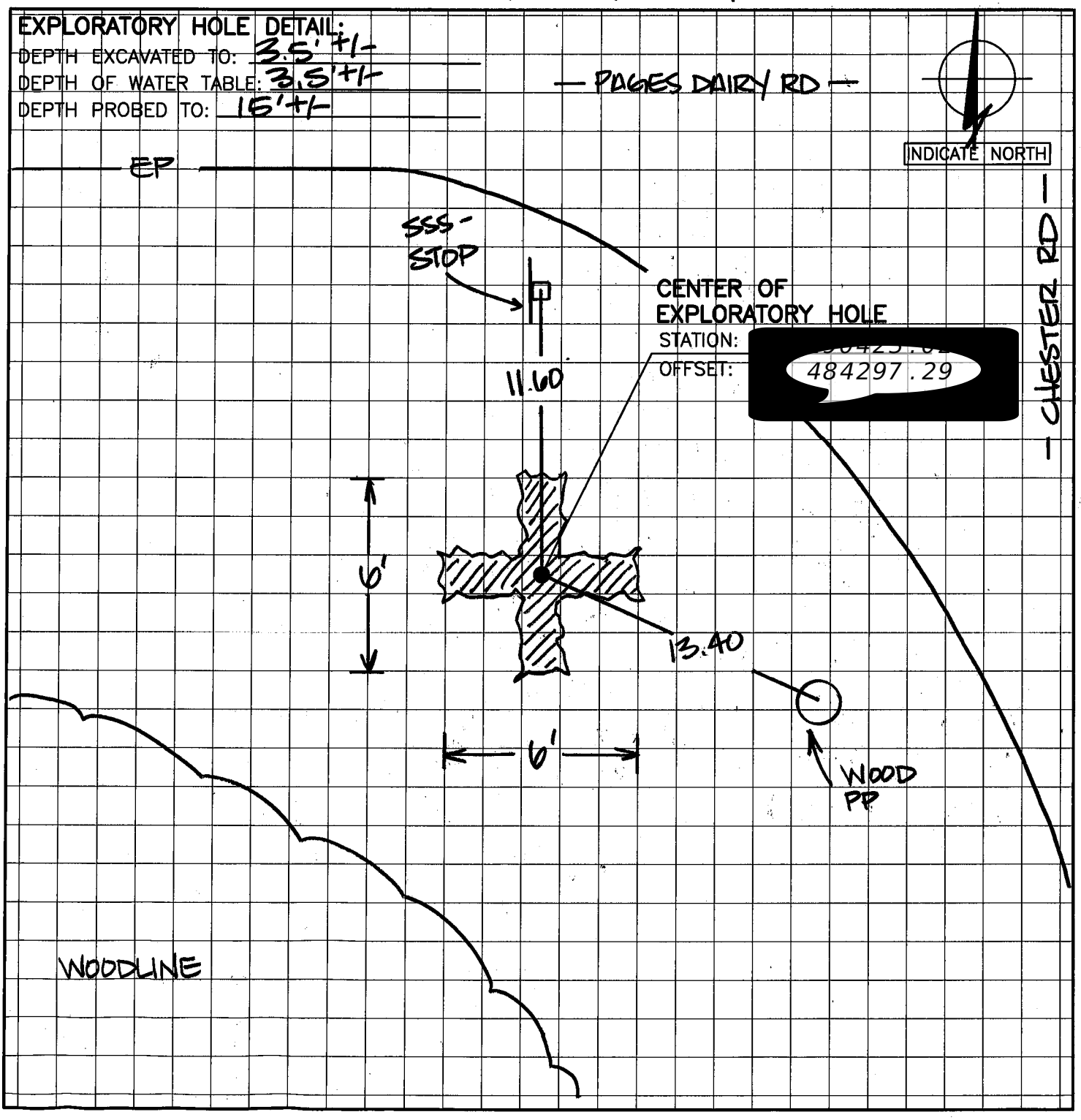
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EXPLORATORY VACUUM EXCAVATION RECORD

CAMERA #:	CREW: HEITMAN DUNHAM DROURKE	
PROJECT: CHESTER RD	DATE: 10/14/20	DRMP #:
CITY/COUNTY: NASSAU	ONE-CALL #: 286005141	F.P.N.#
HOLE# EH 501	POLE#: SMA	CONFLICT FOUND:

INTERSECTION/ADDRESS: CHESTER RD @ PAGES DAIRY RD

EXPLORATORY HOLE DETAIL:
DEPTH EXCAVATED TO: 3.5' +/-
DEPTH OF WATER TABLE: 3.5' +/-
DEPTH PROBED TO: 15' +/-



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CHESTER RD.

DRMP # 16-0210.001



EH 501

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EH 501

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



EH 501

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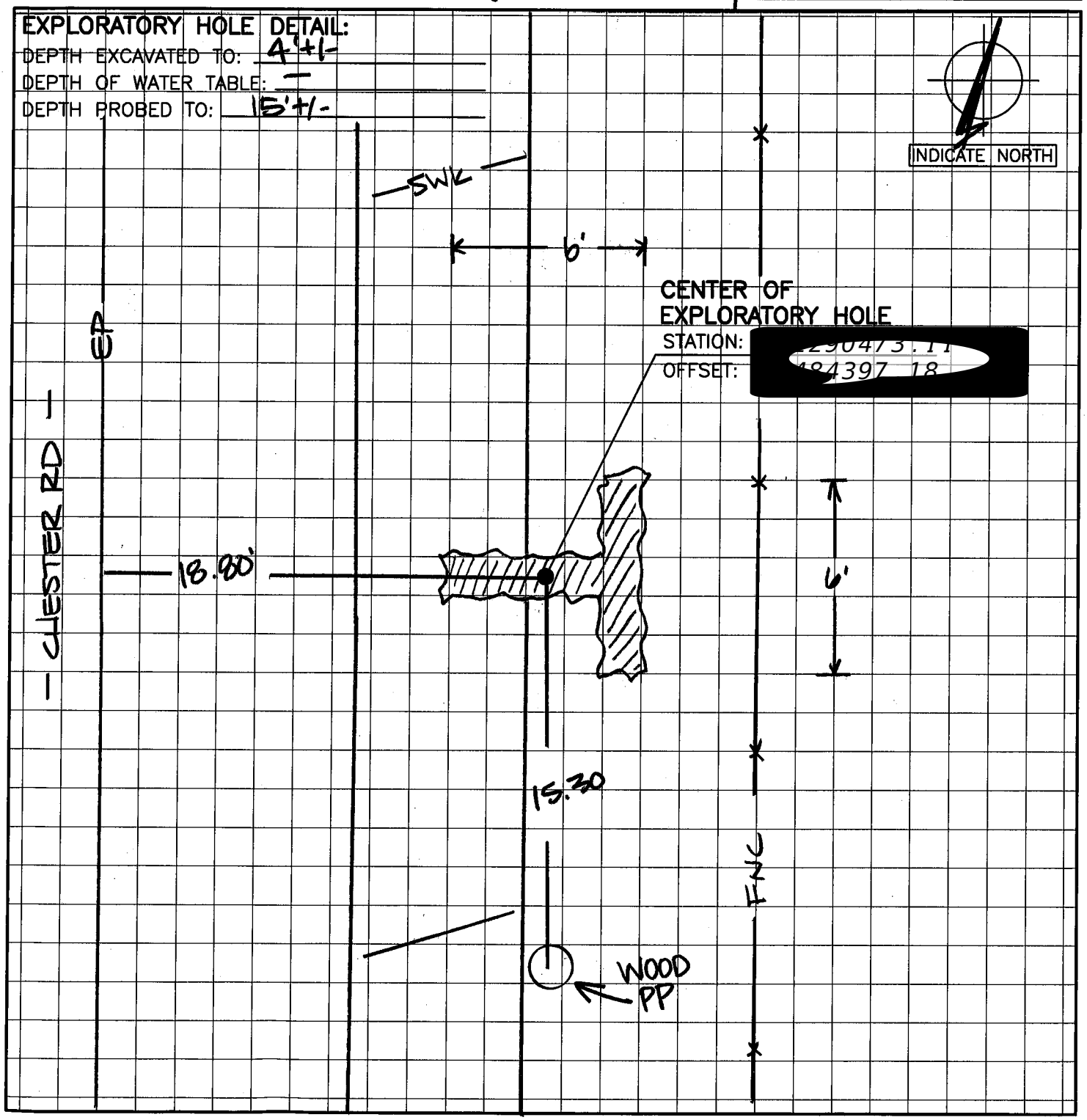
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EXPLORATORY VACUUM EXCAVATION RECORD

CAMERA #: 4	CREW: HEITMAN DUNHAM O'ROURKE	
PROJECT: CHESTER RD	DATE: 10/14/20	DRMP #:
CITY/COUNTY: NASSAU	ONE-CALL #: 286005141	F.P.N.#
HOLE#: EH 502	POLE#: SMA 5	CONFLICT FOUND: CLEAR

INTERSECTION/ADDRESS: CHESTER RD @ PAGES DAIRY RD

EXPLORATORY HOLE DETAIL:
DEPTH EXCAVATED TO: 4'+/-
DEPTH OF WATER TABLE: —
DEPTH PROBED TO: 15'+/-



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CHESTER RD.

DRMP # 16-0210.001



EH 502

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EH 502

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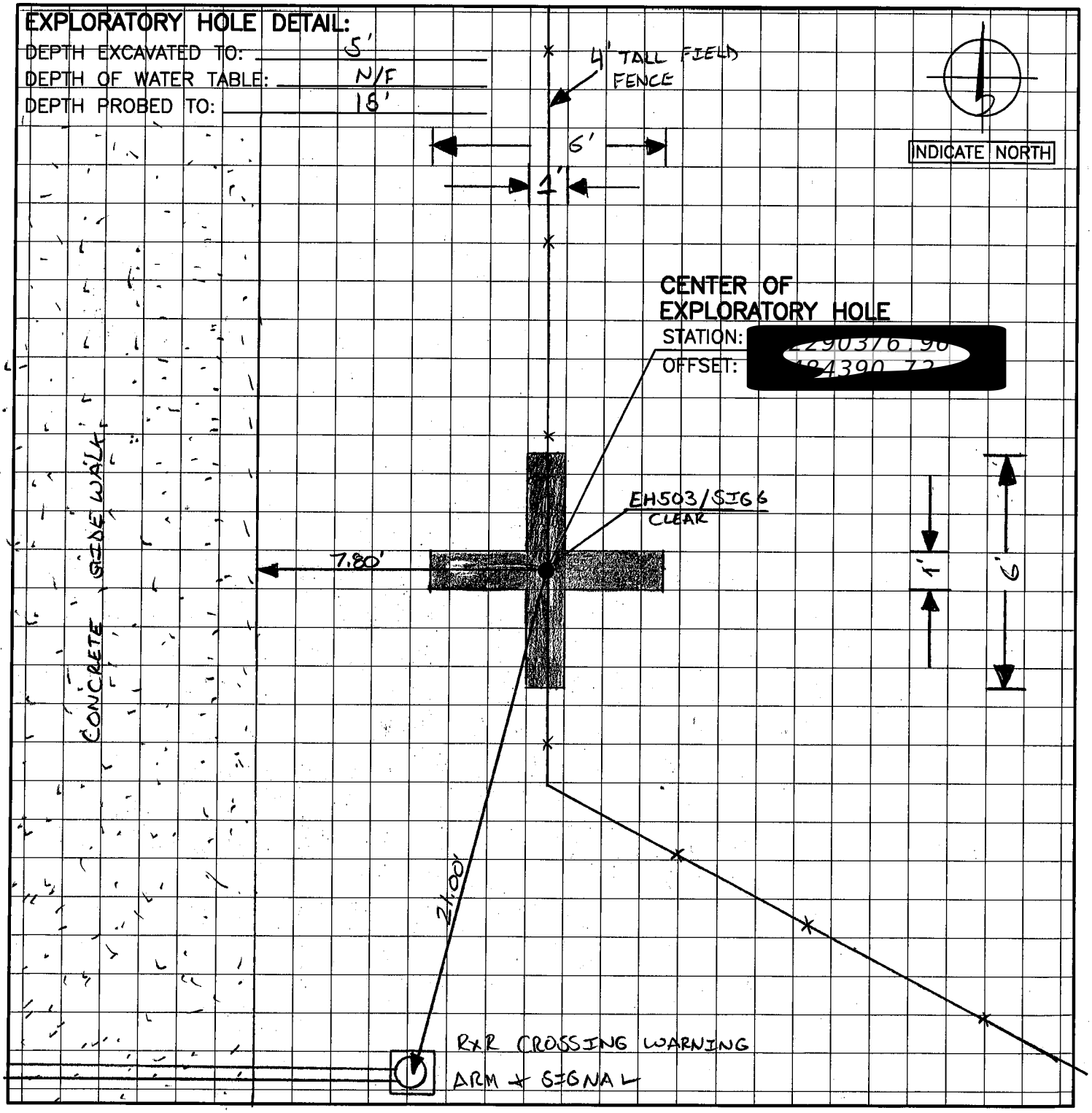
EXPLORATORY VACUUM EXCAVATION RECORD

CAMERA #: 5	CREW: HIRES, JASMIN, GRAB, KNIGHT	
PROJECT: CHESTER RD	DATE: 10/15/20	DRMP #: NOT ON FOLDER
CITY/COUNTY: NASSAU	ONE-CALL #: 286005141	F.P.N.#
HOLE#: EH 503	POLE#: SIG 6	CONFLICT FOUND: CLEAR

INTERSECTION/ADDRESS: SE CORNER OF CHESTER RD & PAGES DAIRY RD

EXPLORATORY HOLE DETAIL:

DEPTH EXCAVATED TO: 5'
DEPTH OF WATER TABLE: N/F
DEPTH PROBED TO: 18'



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CHESTER RD.

DRMP # 16-0210.001



EH 503

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EH 503

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EH 503

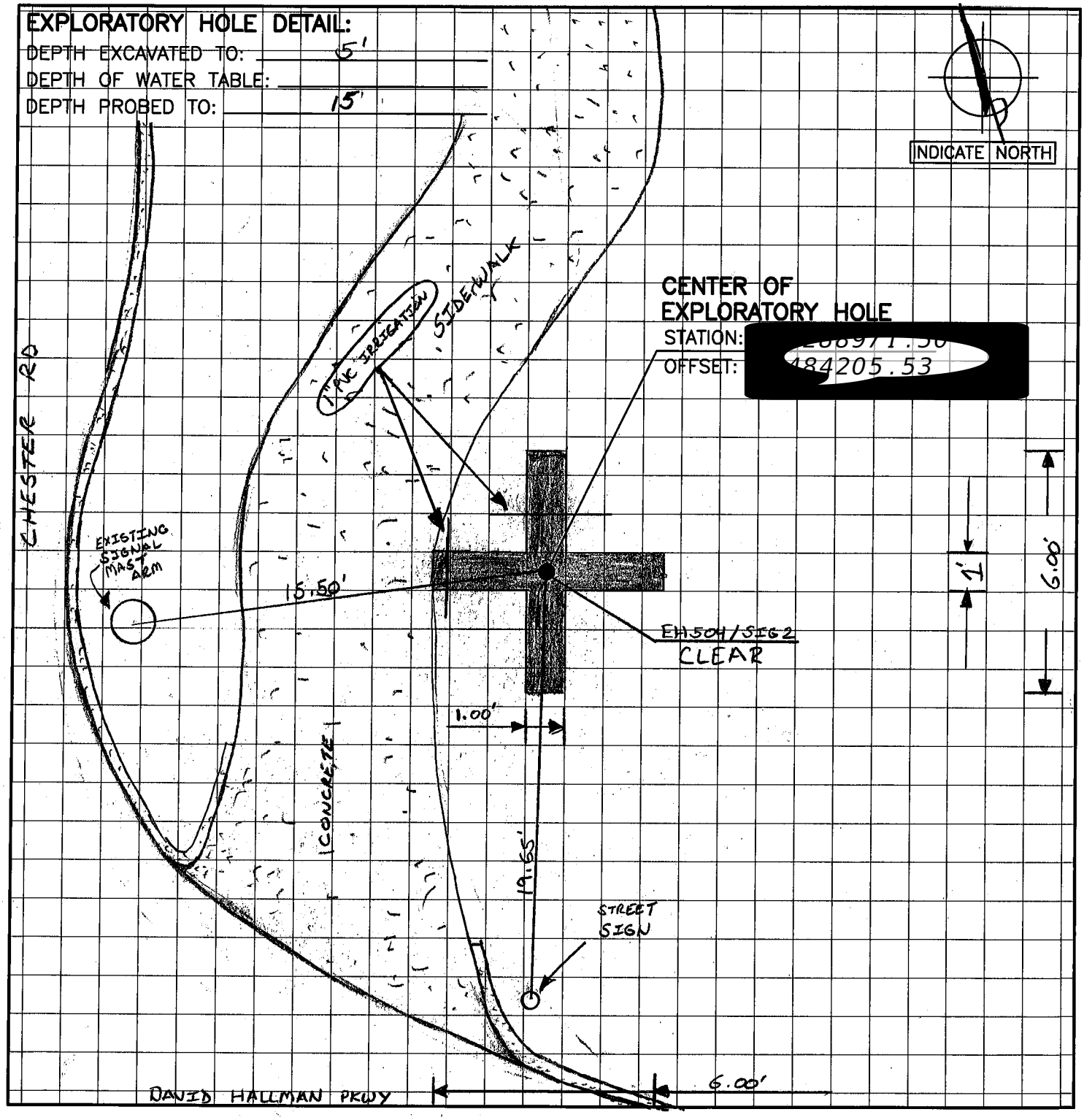
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EXPLORATORY VACUUM EXCAVATION RECORD

CAMERA #: 5	CREW: HIRES, JASMIN, GRAB, KNIGHT	
PROJECT: CHESTER RD	DATE: 10/16/20	DRMP #:
CITY/COUNTY: NASSAU	ONE-CALL #: 286004888	F.P.N.#
HOLE#: 504	POLE#: SIG 2	CONFLICT FOUND: CLEAR
INTERSECTION/ADDRESS: NE CORNER OF CHESTER RD + DAVID HALLMAN PKWY.		

EXPLORATORY HOLE DETAIL:
DEPTH EXCAVATED TO: 5'
DEPTH OF WATER TABLE:
DEPTH PROBED TO: 15'



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CHESTER RD.

DRMP # 16-0210.001



EH 504

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EH 504

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



EH 504

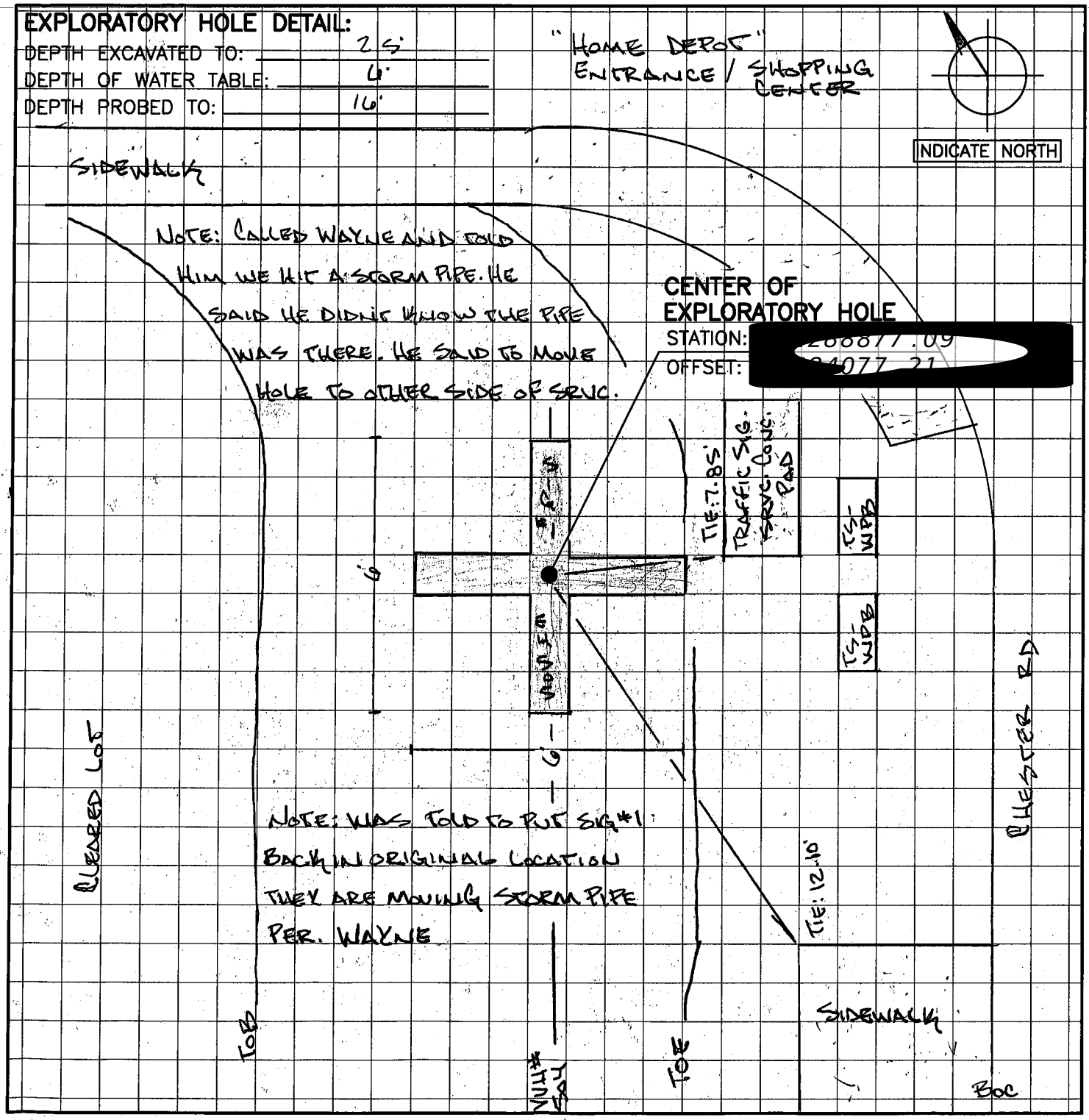
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EXPLORATORY VACUUM EXCAVATION RECORD

CAMERA #: 4	CREW: I. DUNHAM, I. JASMIN, B. O'ROURKE	
PROJECT: CHESTER RD. / S.M.A.	DATE: 10.19.2020	DRMP #:
CITY/COUNTY: NASSAU	ONE-CALL #: 286004998	F.P.N.#
HOLE#: EH-505	POLE#: SIG #1	CONFLICT FOUND:
INTERSECTION/ADDRESS: CHESTER RD. @ SHOPPING CENTER DR.		

EXPLORATORY HOLE DETAIL:
DEPTH EXCAVATED TO: 25'
DEPTH OF WATER TABLE: 6'
DEPTH PROBED TO: 16'



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CHESTER RD.

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EH 505

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EH 505

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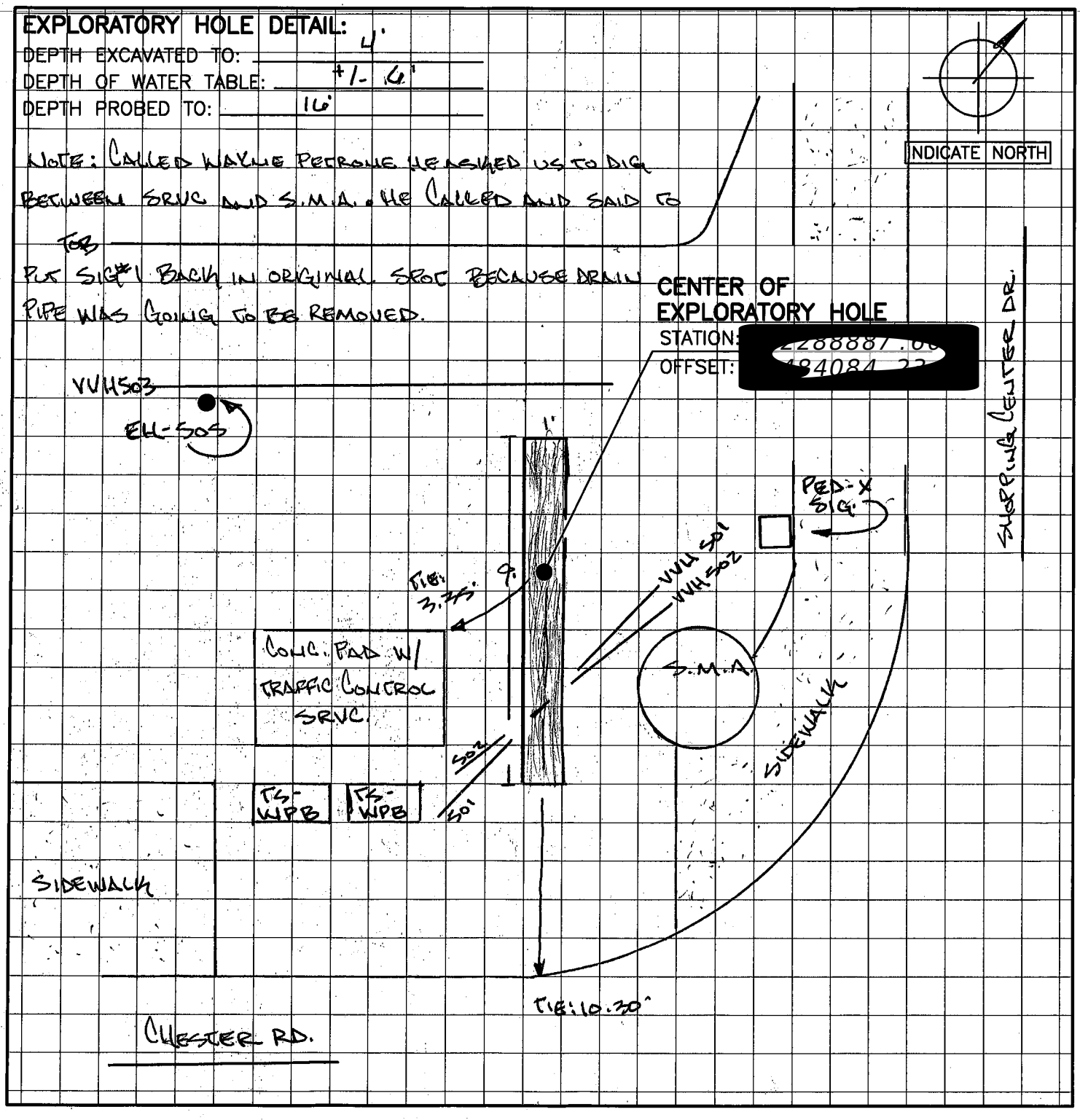
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EXPLORATORY VACUUM EXCAVATION RECORD

CAMERA #: 4	CREW: I. DUNHAM, I. JASMIN, B. O'ROURKE	
PROJECT: CHESTER RD. / S.M.A.	DATE: 10.20.2020	DRMP #:
CITY/COUNTY: NASSAU	ONE-CALL #: 286004998	F.P.N.#
HOLE#: EH-506	POLE#: SIG #1	CONFLICT FOUND: VVH'S 501-503
INTERSECTION/ADDRESS: CHESTER RD. @ SHOPPING CENTER DR.		

EXPLORATORY HOLE DETAIL:
DEPTH EXCAVATED TO: 4'
DEPTH OF WATER TABLE: +/- 6'
DEPTH PROBED TO: 16'

NOTE: CALLED WAYNE PETRONE HE ASKED US TO DIG BETWEEN SRVC AND S.M.A. HE CALLED AND SAID TO TOO PUT SIG #1 BACK IN ORIGINAL SPOT BECAUSE DRAIN PIPE WAS GOING TO BE REMOVED.



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CHESTER RD.

DRMP # 16-0210.001



EH 506

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EH 506

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EH 506

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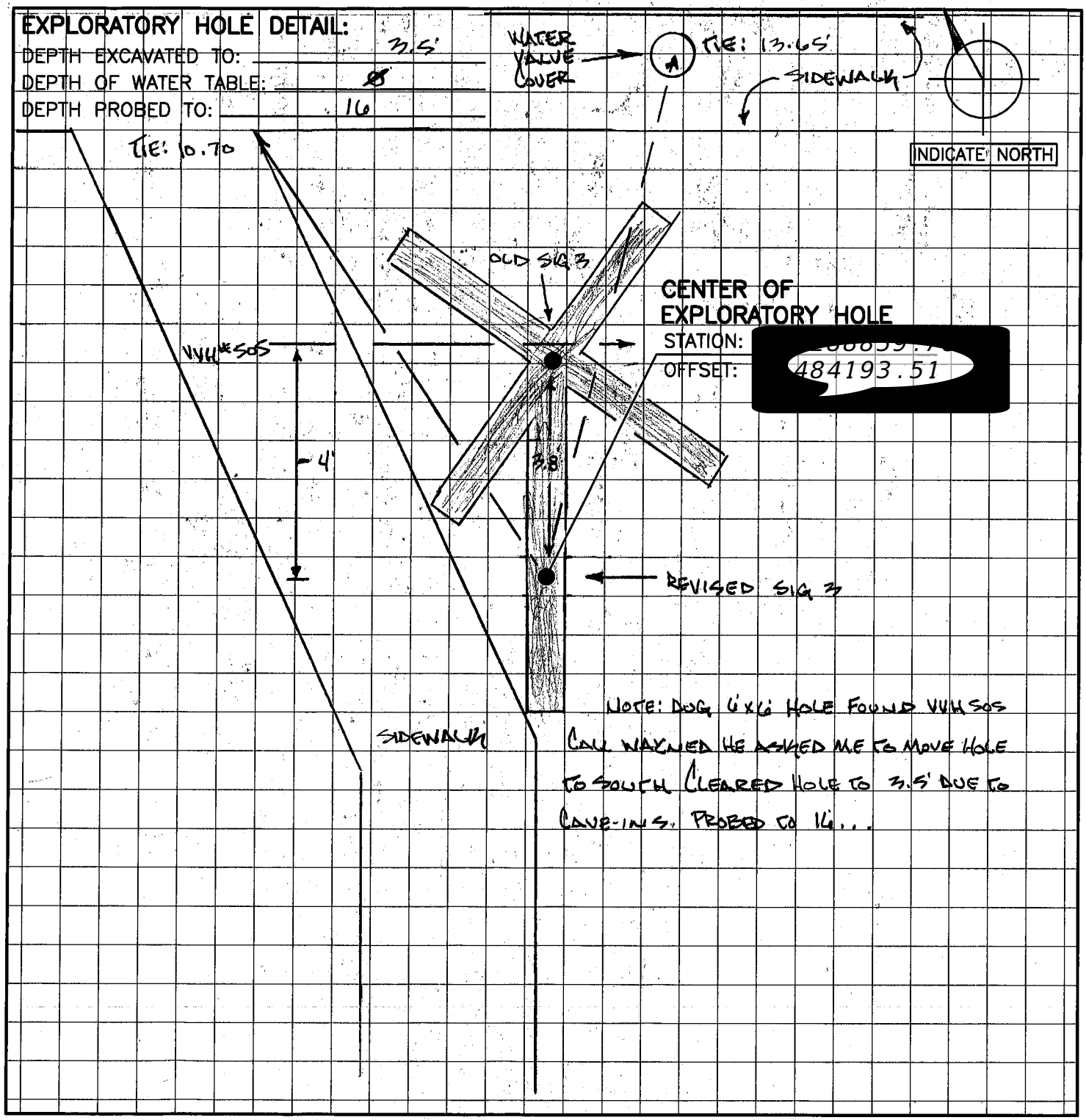
EXPLORATORY VACUUM EXCAVATION RECORD

CAMERA #: 4	CREW: I. DUNHAM, I. JASMIN, B. O'ROURKE	
PROJECT: CHESTER RD. / S.MA.	DATE: 10.20.2020	DRMP #:
CITY/COUNTY: NASSAU	ONE-CALL #:	F.P.N.#
HOLE#: EH 507	POLE#: SIG.# 3	CONFLICT FOUND: REVISED / CLEAR

INTERSECTION/ADDRESS: CHESTER RD. @ DAVID HALLMAN PKWY.

EXPLORATORY HOLE DETAIL:

DEPTH EXCAVATED TO: 3.5'
DEPTH OF WATER TABLE: Ø
DEPTH PROBED TO: 16



NOTE: DOG 6'x6' HOLE FOUND VVH SOS CALL WAYNED HE ASKED ME TO MOVE HOLE TO SOUTH CLEARED HOLE TO 3.5' DUE TO CAVE-INS. PROBED TO 16'..

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CHESTER RD.

DRMP # 16-0210.001



EH 507

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EH 507

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F



EH 507

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

APPENDIX F

Permits

- St. Johns River Water Management District
- CSX Permit – Jack and Bore Crossing
- Florida Department of Environmental Protection

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St. Johns River
Water Management District
Michael A. Register, P.E., Executive Director

4049 Reid Street • P.O. Box 1429 • Palatka, FL 32178-1429 • 386-329-4500 • www.sjrwmd.com

November 07, 2023

Robert Companion
Nassau County Engineering Services
96161 Nassau Pl
Yulee, FL 32097-8625

SUBJECT: 145638-2
Chester Road and Pages Dairy Road Intersection Improvements

Dear Sir/Madam:

Enclosed is your individual permit issued by the St. Johns River Water Management District on November 07, 2023. This permit is a legal document and should be kept with your other important documents. Permit issuance does not relieve you from the responsibility of obtaining any necessary permits from any federal, state, or local agencies for your project.

Technical Staff Report:
If you wish to review a copy of the Technical Staff Report (TSR) that provides the District's staff analysis of your permit application, you may view the TSR by going to the Permitting section of the District's website at www.sjrwmd.com/permitting. Using the "search applications and permits" feature, you can use your permit number or project name to find information about the permit. When you see the results of your search, click on the permit number and then on the TSR folder.

Noticing Your Permit:
For noticing instructions, please refer to the noticing materials in this package regarding closing the point of entry for someone to challenge the issuance of your permit. Please note that if a timely petition for administrative hearing is filed, your permit will become non-final and any activities that you choose to undertake pursuant to your permit will be at your own risk. Please refer to the attached Notice of Rights to determine any legal rights you may have concerning the District's agency action.

Compliance with Permit Conditions:
To submit your required permit compliance information, go to the District's website at www.sjrwmd.com/permitting. Under the "Apply for a permit or submit compliance data" section, click to sign-in to your existing account or to create a new account. Select the "Compliance Submittal" tab, enter your permit number, and select "No Specific Date" for the Compliance Due Date Range. You will then be able to view all the compliance submittal requirements for your project. Select the compliance item that you are ready to submit and then attach the appropriate information or form. The forms to comply with your permit conditions are available at www.sjrwmd.com/permitting under the section "Handbooks, forms, fees, final orders". Click on forms to view all permit compliance forms, then scroll to the ERP application forms section and

GOVERNING BOARD

Rob Bradley, CHAIR FLEMING ISLAND
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select the applicable compliance forms. Alternatively, if you have difficulty finding forms or need copies of the appropriate forms, please contact the Bureau of Regulatory Support at (386) 329-4570.

Transferring Your Permit:
Your permit requires you to notify the District within 30 days of any change in ownership or control of the project or activity covered by the permit, or within 30 days of any change in ownership or control of the real property on which the permitted project or activity is located or occurs. You will need to provide the District with the information specified in rule 62-330.340, Florida Administrative Code (F.A.C.). Generally, this will require you to complete and submit Form 62-330.340(1), "Request to Transfer Permit," available at http://www.sjrwmd.com/permitting/permitforms.html.

Please note that a permittee is liable for compliance with the permit before the permit is transferred. The District, therefore, recommends that you request a permit transfer in advance in accordance with the applicable rules. You are encouraged to contact District staff for assistance with this process.

Thank you and please let us know if you have additional questions. For general questions contact e-permit@sjrwmd.com or (386) 329-4570.

Sincerely,

Michelle Reiber

Michelle Reiber, Bureau Chief
Division of Regulatory Services
St. Johns River Water Management District
525 Community College Parkway, S.E.
Palm Bay, FL 32909
(321) 409-2129

Enclosures: Permit
Notice of Rights
List of Newspapers for Publication

cc: District Permit File

Taylor Hohmann
DEP

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ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
Post Office Box 1429
Palatka, Florida 32178-1429

PERMIT NO: 145638-2 **DATE ISSUED:** November 07, 2023

PROJECT NAME: Chester Road and Pages Dairy Road Intersection Improvements

A PERMIT AUTHORIZING:
Construction and operation of a Stormwater Management System for a 21.43 acre(s) project known as (project name) as per plans received by the District on December 27, 2022, and November 3, 2023.

LOCATION:

Section(s):	51, 36	Township(s):	3N	Range(s):	27E
	1		2N		27E
	25		2N		28E
	44, 37		3N		28E

Nassau County

Receiving Water Body:

Name	Class
Lanceford Creek	III Fresh

ISSUED TO:
Raydient LLC
1 Rayonier Way
Yulee, FL 32097-0002

Nassau County Engineering Services
96161 Nassau Pl
Yulee, FL 32097-8625

The permittee agrees to hold and save the St. Johns River Water Management District and its successors harmless from any and all damages, claims, or liabilities which may arise from permit issuance. Said application, including all plans and specifications attached thereto, is by reference made a part hereof.

This permit does not convey to the permittee any property rights nor any rights or privileges other than those specified herein, nor relieve the permittee from complying with any law, regulation or requirement affecting the rights of other bodies or agencies. All structures and works installed by permittee hereunder shall remain the property of the permittee.

This permit may be revoked, modified or transferred at any time pursuant to the appropriate provisions of Chapter 373, Florida Statutes.

PERMIT IS CONDITIONED UPON:
See conditions on attached “Exhibit A”, dated November 07, 2023

AUTHORIZED BY: St. Johns River Water Management District
Division of Regulatory Services

By: _____

Craig McCammon
Supervising Regulatory Scientist

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"EXHIBIT A"
CONDITIONS FOR ISSUANCE OF PERMIT NUMBER 145638-2
Chester Road and Pages Dairy Road Intersection Improvements
DATED November 07, 2023

1. All activities shall be implemented following the plans, specifications and performance criteria approved by this permit. Any deviations must be authorized in a permit modification in accordance with Rule 62-330.315, F.A.C. Any deviations that are not so authorized may subject the permittee to enforcement action and revocation of the permit under Chapter 373, F.S.

2. A complete copy of this permit shall be kept at the work site of the permitted activity during the construction phase, and shall be available for review at the work site upon request by the District staff. The permittee shall require the contractor to review the complete permit prior to beginning construction.

3. Activities shall be conducted in a manner that does not cause or contribute to violations of state water quality standards. Performance-based erosion and sediment control best management practices shall be installed immediately prior to, and be maintained during and after construction as needed, to prevent adverse impacts to the water resources and adjacent lands. Such practices shall be in accordance with the State of Florida Erosion and Sediment Control Designer and Reviewer Manual (Florida Department of Environmental Protection and Florida Department of Transportation June 2007), and the Florida Stormwater Erosion and Sedimentation Control Inspector's Manual (Florida Department of Environmental Protection, Nonpoint Source Management Section, Tallahassee, Florida, July 2008), which are both incorporated by reference in subparagraph 62-330.050(9)(b)5, F.A.C., unless a project-specific erosion and sediment control plan is approved or other water quality control measures are required as part of the permit.

4. At least 48 hours prior to beginning the authorized activities, the permittee shall submit to the District a fully executed Form 62-330.350(1), "Construction Commencement Notice," (October 1, 2013) (http://www.flrules.org/Gateway/reference.asp?No=Ref-02505), incorporated by reference herein, indicating the expected start and completion dates. A copy of this form may be obtained from the District, as described in subsection 62-330.010(5), F.A.C., and shall be submitted electronically or by mail to the Agency. However, for activities involving more than one acre of construction that also require a NPDES stormwater construction general permit, submittal of the Notice of Intent to Use Generic Permit for Stormwater Discharge from Large and Small Construction Activities, DEP Form 62-621.300(4)(b), shall also serve as notice of commencement of construction under this chapter and, in such a case, submittal of Form 62-330.350(1) is not required.

5. Unless the permit is transferred under Rule 62-330.340, F.A.C., or transferred to an operating entity under Rule 62-330.310, F.A.C., the permittee is liable to comply with the plans, terms and conditions of the permit for the life of the project or activity.

6. Within 30 days after completing construction of the entire project, or any independent portion of the project, the permittee shall provide the following to the Agency, as applicable:

    a. For an individual, private single-family residential dwelling unit, duplex, triplex, or quadruplex — "Construction Completion and Inspection Certification for Activities Associated with a Private Single-Family Dwelling Unit" [Form 62-330.310(3)]; or

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b. For all other activities — “As-Built Certification and Request for Conversion to Operation Phase” [Form 62-330.310(1)].

c. If available, an Agency website that fulfills this certification requirement may be used in lieu of the form.

7. If the final operation and maintenance entity is a third party:

   a. Prior to sales of any lot or unit served by the activity and within one year of permit issuance, or within 30 days of as-built certification, whichever comes first, the permittee shall submit, as applicable, a copy of the operation and maintenance documents (see sections 12.3 thru 12.3.4 of Volume I) as filed with the Florida Department of State, Division of Corporations and a copy of any easement, plat, or deed restriction needed to operate or maintain the project, as recorded with the Clerk of the Court in the County in which the activity is located.

   b. Within 30 days of submittal of the as- built certification, the permittee shall submit “Request for Transfer of Environmental Resource Permit to the Perpetual Operation and Maintenance Entity” [Form 62-330.310(2)] to transfer the permit to the operation and maintenance entity, along with the documentation requested in the form. If available, an Agency website that fulfills this transfer requirement may be used in lieu of the form.

8. The permittee shall notify the District in writing of changes required by any other regulatory District that require changes to the permitted activity, and any required modification of this permit must be obtained prior to implementing the changes.

9. This permit does not:

   a. Convey to the permittee any property rights or privileges, or any other rights or privileges other than those specified herein or in Chapter 62-330, F.A.C.;

   b. Convey to the permittee or create in the permittee any interest in real property;

   c. Relieve the permittee from the need to obtain and comply with any other required federal, state, and local authorization, law, rule, or ordinance; or

   d. Authorize any entrance upon or work on property that is not owned, held in easement, or controlled by the permittee.

10. Prior to conducting any activities on state-owned submerged lands or other lands of the state, title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund, the permittee must receive all necessary approvals and authorizations under Chapters 253 and 258, F.S. Written authorization that requires formal execution by the Board of Trustees of the Internal Improvement Trust Fund shall not be considered received until it has been fully executed.

11. The permittee shall hold and save the District harmless from any and all damages, claims, or liabilities that may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any project authorized by the permit.

12. The permittee shall notify the District in writing:

    a. Immediately if any previously submitted information is discovered to be inaccurate; and

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b. Within 30 days of any conveyance or division of ownership or control of the property or the system, other than conveyance via a long-term lease, and the new owner shall request transfer of the permit in accordance with Rule 62-330.340, F.A.C. This does not apply to the sale of lots or units in residential or commercial subdivisions or condominiums where the stormwater management system has been completed and converted to the operation phase.

13. Upon reasonable notice to the permittee, District staff with proper identification shall have permission to enter, inspect, sample and test the project or activities to ensure conformity with the plans and specifications authorized in the permit.

14. If prehistoric or historic artifacts, such as pottery or ceramics, projectile points, stone tools, dugout canoes, metal implements, historic building materials, or any other physical remains that could be associated with Native American, early European, or American settlement are encountered at any time within the project site area, the permitted project shall cease all activities involving subsurface disturbance in the vicinity of the discovery. The permittee or other designee shall contact the Florida Department of State, Division of Historical Resources, Compliance Review Section (DHR), at (850) 245-6333, as well as the appropriate permitting agency office. Project activities shall not resume without verbal or written authorization from the Division of Historical Resources. If unmarked human remains are encountered, all work shall stop immediately and the proper authorities notified in accordance with Section 872.05, F.S. For project activities subject to prior consultation with the DHR and as an alternative to the above requirements, the permittee may follow procedures for unanticipated discoveries as set forth within a cultural resources assessment survey determined complete and sufficient by DHR and included as a specific permit condition herein.

15. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered binding unless a specific condition of this permit or a formal determination under Rule 62-330.201, F.A.C., provides otherwise.

16. The permittee shall provide routine maintenance of all components of the stormwater management system to remove trapped sediments and debris. Removed materials shall be disposed of in a landfill or other uplands in a manner that does not require a permit under Chapter 62-330, F.A.C., or cause violations of state water quality standards.

17. This permit is issued based on the applicant's submitted information that reasonably demonstrates that adverse water resource-related impacts will not be caused by the completed permit activity. If any adverse impacts result, the District will require the permittee to eliminate the cause, obtain any necessary permit modification, and take any necessary corrective actions to resolve the adverse impacts.

18. A Recorded Notice of Environmental Resource Permit may be recorded in the county public records in accordance with Rule 62-330.090(7), F.A.C. Such notice is not an encumbrance upon the property.

19. This permit for construction will expire five years from the date of issuance.

20. At a minimum, all retention and detention storage areas must be excavated to rough grade prior to building construction or placement of impervious surface within the area to be served by those facilities. To prevent reduction in storage volume and percolation rates, all accumulated sediment must be removed from the storage area prior to final grading and stabilization.

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21. All wetland areas or water bodies that are outside the specific limits of construction authorized by this permit must be protected from erosion, siltation, scouring or excess turbidity, and dewatering.

22. This permit does not authorize the permittee to cause any adverse impact to or “take” of state listed species and other regulated species of fish and wildlife. Compliance with state laws regulating the take of fish and wildlife is the responsibility of the owner or applicant associated with this project. Please refer to Chapter 68A-27 of the Florida Administrative Code for definitions of “take” and a list of fish and wildlife species. If listed species are observed onsite, FWC staff are available to provide decision support information or assist in obtaining the appropriate FWC permits. Most marine endangered and threatened species are statutorily protected and a “take” permit cannot be issued. Requests for further information or review can be sent to FWCConservationPlanningServices@MyFWC.com.

23. The operation and maintenance entity shall inspect the stormwater or surface water management system once within two years after the completion of construction and every two years thereafter to determine if the system is functioning as designed and permitted. The operation and maintenance entity must maintain a record of each required inspection, including the date of the inspection, the name and contact information of the inspector, and whether the system was functioning as designed and permitted, and make such record available for inspection upon request by the District during normal business hours. If at any time the system is not functioning as designed and permitted, then within 30 days the entity shall submit a report electronically or in writing to the District using Form 62-330.311(1), “Operation and Maintenance Inspection Certification,” describing the remedial actions taken to resolve the failure or deviation.

24. Wetland impacts must be performed as indicated on the plans received by the District on December 27, 2022 and November 3, 2023.

25. The mitigation plan, which includes the purchase of 0.20 forested freshwater UMAM credits from Longleaf UMAM N-W Mitigation Bank per the letter of allocation received by the District on October 12, 2023, is incorporated as a condition of this permit.

26. The surface water management system must be constructed in accordance with the plans received by the District on December 27, 2022.

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Notice Of Rights

1. A person whose substantial interests are or may be affected has the right to request an administrative hearing by filing a written petition with the St. Johns River Water Management District (District). Pursuant to Chapter 28-106 and Rule 40C-1.1007, Florida Administrative Code, the petition must be filed (received) either by delivery at the office of the District Clerk at District Headquarters, P. O. Box 1429, Palatka Florida 32178-1429 (4049 Reid St., Palatka, FL 32177) or by e-mail with the District Clerk at Clerk@sjrwmd.com, within twenty-six (26) days of the District depositing the notice of District decision in the mail (for those persons to whom the District mails actual notice), within twenty-one (21) days of the District emailing the notice of District decision (for those persons to whom the District emails actual notice), or within twenty-one (21) days of newspaper publication of the notice of District decision (for those persons to whom the District does not mail or email actual notice). A petition must comply with Sections 120.54(5)(b)4. and 120.569(2)(c), Florida Statutes, and Chapter 28-106, Florida Administrative Code. The District will not accept a petition sent by facsimile (fax), as explained in paragraph no. 4 below.

2. Please be advised that if you wish to dispute this District decision, mediation may be available and that choosing mediation does not affect your right to an administrative hearing. If you wish to request mediation, you must do so in a timely-filed petition. If all parties, including the District, agree to the details of the mediation procedure, in writing, within 10 days after the time period stated in the announcement for election of an administrative remedy under Sections 120.569 and 120.57, Florida Statutes, the time limitations imposed by Sections 120.569 and 120.57, Florida Statutes, shall be tolled to allow mediation of the disputed District decision. The mediation must be concluded within 60 days of the date of the parties' written agreement, or such other timeframe agreed to by the parties in writing. Any mediation agreement must include provisions for selecting a mediator, a statement that each party shall be responsible for paying its pro-rata share of the costs and fees associated with mediation, and the mediating parties' understanding regarding the confidentiality of discussions and documents introduced during mediation. If mediation results in settlement of the administrative dispute, the District will enter a final order consistent with the settlement agreement. If mediation terminates without settlement of the dispute, the District will notify all the parties in writing that the administrative hearing process under Sections 120.569 and 120.57, Florida Statutes, is resumed. Even if a party chooses not to engage in formal mediation, or if formal mediation does not result in a settlement agreement, the District will remain willing to engage in informal settlement discussions.

3. A person whose substantial interests are or may be affected has the right to an informal administrative hearing pursuant to Sections 120.569 and 120.57(2), Florida Statutes, where no material facts are in dispute. A petition for an informal hearing must also comply with the requirements set forth in Rule 28-106.301, Florida Administrative Code.

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Notice Of Rights

4. A petition for an administrative hearing is deemed filed upon receipt of the complete petition by the District Clerk at the District Headquarters in Palatka, Florida during the District's regular business hours. The District's regular business hours are 8:00 a.m. – 5:00 p.m., excluding weekends and District holidays. Petitions received by the District Clerk after the District's regular business hours shall be deemed filed as of 8:00 a.m. on the District's next regular business day. The District's acceptance of petitions filed by e-mail is subject to certain conditions set forth in the District's Statement of Agency Organization and Operation (issued pursuant to Rule 28-101.001, Florida Administrative Code), which is available for viewing at *sjrwmd.com*. These conditions include, but are not limited to, the petition being in the form of a PDF or TIFF file and being capable of being stored and printed by the District. Further, pursuant to the District's Statement of Agency Organization and Operation, attempting to file a petition by facsimile is prohibited and shall not constitute filing.

5. Failure to file a petition for an administrative hearing within the requisite timeframe shall constitute a waiver of the right to an administrative hearing. (Rule 28-106.111, Florida Administrative Code).

6. The right to an administrative hearing and the relevant procedures to be followed are governed by Chapter 120, Florida Statutes, Chapter 28-106, Florida Administrative Code, and Rule 40C-1.1007, Florida Administrative Code. Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means the District's final action may be different from the position taken by it in this notice. A person whose substantial interests are or may be affected by the District's final action has the right to become a party to the proceeding, in accordance with the requirements set forth above.

7. Pursuant to Section 120.68, Florida Statutes, a party to the proceeding before the District who is adversely affected by final District action may seek review of the action in the District Court of Appeal by filing a notice of appeal pursuant to Rules 9.110 and 9.190, Florida Rules of Appellate Procedure, within 30 days of the rendering of the final District action.

8. A District action is considered rendered, as referred to in paragraph no. 7 above, after it is signed on behalf of the District and filed by the District Clerk.

9. Failure to observe the relevant timeframes for filing a petition for judicial review as described in paragraph no. 7 above will result in waiver of that right to review.

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NOTICING INFORMATION

Please be advised that the St. Johns River Water Management District will not publish a notice in the newspaper advising the public that it has issued a permit for this project.

Newspaper publication, using the District's notice form, notifies members of the public of their right to challenge the issuance of the permit. If proper notice is given by newspaper publication, then there is a 21-day time limit for someone to file a petition for an administrative hearing to challenge the issuance of the permit.

To close the point of entry for filing a petition, you may publish (at your own expense) a one-time notice of the District's decision in a newspaper of general circulation within the affected area as defined in Section 50.011 of the Florida Statutes. If you do not publish a newspaper notice to close the point of entry, the time to challenge the issuance of your permit will not expire and someone could file a petition even after your project is constructed.

A copy of the notice form and a partial list of newspapers of general circulation are attached for your convenience. However, you are not limited to those listed newspapers. If you choose to close the point of entry and the notice is published, the newspaper will return to you an affidavit of publication. In that event, it is important that you either submit a scanned copy of the affidavit by emailing it to *compliancesupport@sjrwmd.com* (preferred method) **or** send a copy of the original affidavit to:

Office of Records and Regulatory Support
4049 Reid Street
Palatka, FL 32177

If you have any questions, please contact the Office of Records and Regulatory Support at (386) 329-4570.

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NOTICE OF AGENCY ACTION TAKEN BY THE
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

Notice is given that the following permit was issued on _____:

(Name and address of applicant) _____
permit#_____. The project is located in _____County, Section _____, Township _____ South, Range _____ East. The permit authorizes a surface water management system on _____ acres for _____ known as _____. The receiving water body is _____.

A person whose substantial interests are or may be affected has the right to request an administrative hearing by filing a written petition with the St. Johns River Water Management District (District). Pursuant to Chapter 28-106 and Rule 40C-1.1007, Florida Administrative Code (F.A.C.), the petition must be filed (received) either by delivery at the office of the District Clerk at District Headquarters, P.O. Box 1429, Palatka FL 32178-1429 (4049 Reid St, Palatka, FL 32177) or by e-mail with the District Clerk at Clerk@sjrwmd.com, within twenty-one (21) days of newspaper publication of the notice of District decision (for those persons to whom the District does not mail or email actual notice). A petition must comply with Sections 120.54(5)(b)4. and 120.569(2)(c), Florida Statutes (F.S.), and Chapter 28-106, F.A.C. The District will not accept a petition sent by facsimile (fax). Mediation pursuant to Section 120.573, F.S., may be available and choosing mediation does not affect your right to an administrative hearing.

A petition for an administrative hearing is deemed filed upon receipt of the complete petition by the District Clerk at the District Headquarters in Palatka, Florida during the District's regular business hours. The District's regular business hours are 8 a.m. – 5 p.m., excluding weekends and District holidays. Petitions received by the District Clerk after the District's regular business hours shall be deemed filed as of 8 a.m. on the District's next regular business day. The District's acceptance of petitions filed by e-mail is subject to certain conditions set forth in the District's Statement of Agency Organization and Operation (issued pursuant to Rule 28-101.001, Florida Administrative Code), which is available for viewing at www.sjrwmd.com. These conditions include, but are not limited to, the petition being in the form of a PDF or TIFF file and being capable of being stored and printed by the District. Further, pursuant to the District's Statement of Agency Organization and Operation, attempting to file a petition by facsimile (fax) is prohibited and shall not constitute filing.

The right to an administrative hearing and the relevant procedures to be followed are governed by Chapter 120, Florida Statutes, Chapter 28-106, Florida Administrative Code, and Rule 40C-1.1007, Florida Administrative Code. Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means the District's final action may be different from the position taken by it in this notice. **Failure to file a petition for an administrative hearing within the requisite time frame shall constitute a waiver of the right to an administrative hearing. (Rule 28-106.111, F.A.C.).**

If you wish to do so, please visit http://www.sjrwmd.com/nor_dec/ to read the complete Notice of Rights to determine any legal rights you may have concerning the District's decision(s) on the permit application(s) described above. You can also request the Notice of Rights by contacting the Director of Office of Records and Regulatory Support, 4049 Reid St., Palatka, FL 32177-2529, tele. no. (386)329-4570.

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NEWSPAPER ADVERTISING

ALACHUA
Gainesville Sun, Legal Advertising
2700 SW 13th Street
Gainesville, FL 32608
866-858-9652

BAKER
Baker County Press, Legal Advertising
P. O. Box 598
Maclenny, FL 3206 3
904-259-2400/ fax 904-259-6502

BRADFORD
Bradford County Telegraph, Legal Advertising
P. O. Drawer A
Starke, FL 32901
904-964-6305/ fax 904-964-8628

BREVARD
Florida Today, Legal Advertising
P. O. Box 419000
Melbourne, FL 32941-9000
321-242-3832/ fax 321-242-6618

CLAY
Clay Today, Legal Advertising
1560 Kinsley Ave., Suite 1
Orange Park, FL 32073
904-264-3200/ fax 904-264-3285

DUVAL
Daily Record, Legal Advertising
P. O. Box 1769
Jacksonville, FL 32201
904-356-2466 / fax 904-353-2628

FLAGLER
Flagler Tribune, c/o News Journal
P. O. Box 2831
Daytona Beach, FL 32120-2831
386- 681-2322

INDIAN RIVER
Treasure Coast News
760 NW Enterprise Dr.
Port St. Lucie, FL 34986
772-283-5252

LAKE
Daily Commercial, Legal Advertising
P. O. Drawer 490007
Leesburg, FL 34749
352-365-8235/fax 352-365-1951

MARION
Ocala Star Banner, Legal Advertising
2121 SW 19th Avenue Road
Ocala, FL 34474
352-867-4010/fax 352-867-4126

NASSAU
News-Leader, Legal Advertising
P. O. Box 766
Fernandina Beach, FL 32035
904-261-3696/fax 904-261-3698

OKEECHOBEE
Okeechobee News, Legal Advertising
P. O. Box 639
Okeechobee, FL 34973-0639
863-763-3134/fax 863-763-5901

ORANGE
Sentinel Communications, Legal Advertising
633 N. Orange Avenue
Orlando, FL 32801
407-420-5160/ fax 407-420-5011

OSCEOLA
Little Sentinel, Legal Advertising
633 N. Orange Avenue
Orlando, FL 32801
407-420-5160/ fax 407-420-5011

PUTNAM
Palatka Daily News, Legal Advertising
P. O. Box 777
Palatka, FL 32178
386-312-5200/ fax 386-312-5209

ST. JOHNS
St. Augustine Record, Legal Advertising
P. O. Box 1630
St. Augustine, FL 32085
904-819-3439

SEMINOLE
Sanford Herald, Legal Advertising
300 North French Avenue
Sanford, FL 32771
407-323-9408

VOLUSIA
News Journal Corporation, Legal Advertising
P. O. Box 2831
Daytona Beach, FL 32120-2831
(386) 681-2322

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500 Water Street, J180
Jacksonville, FL 32202
JUSTIN_ROERIG@CSX.COM

Justin Roerig
Real Estate Specialist

October 26, 2023

Agreement No.: CSX057906
Site Location No.: CSX057906050

JEA
225 N. PEARL STREET
JACKSONVILLE, FL 32202

Dear Sir or Madam

You are now ready to begin the installation/work phase of the utility application process. JEA or its Contractor must complete and submit the Outside Party Request Form available on the CSX Property Portal, accessed by typing propertyportal.csx.com in a web browser. Prior to any work, construction submittal requirements as noted on Exhibit A attached hereto must be submitted to and approved by CSXT or its representative. No work on, over, or adjacent to CSXT property can take place without all necessary approvals, including, but not limited to, written confirmation from CSXT's Flagging Coordinator.

Agreement Date:	May 16, 2007	**Location:**	YULEE, NASSAU County, FL
		Milepost:	SMA 39.6
		Division:	
		Subdivision:	
		Latitude:	N303756
		Longitude:	W813247
Application Date:	July 31, 2023	**Facility:**	Subgrade Jack & Bore - Install 30in steel casing with 16in PVC inner duct for the conveyance of potable water at a minimum depth of 5.5ft below rail to top of casing

Subject to the above referenced company scheduling the work as hereafter references, this letter will serve as formal authority to make the installation at the location shown on the attached approved print, in accordance with specifications outlined in your application, also attached hereto, and subject to the terms of said Agreements. This letter shall constitute a Supplement to said Agreement; please retain it in your file(s) pertaining to the same. To schedule the work, please visit the CSX Property Portal to complete the Outside Party Number Request Form. Pursuant to terms of the Agreement, the protection services fees will be invoiced upon completion of installation of the facilities.

Should there be any questions, please feel free to give us a call at the above referenced number.

Sincerely,
Justin Roerig

This is an electronically generated report, hence does not require signature.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

CSX Transportation (CSXT) General Notes (Bore and Jack):

Yulee, FL
Engineering Region (Division): XXXXX / Sub Division: XXXXX / Nearest DOT: 620804A
Mile Post: SMA39.6 / Lat_Long: 30.632389 / -81.546401

1) CSXT owns its right-of-way for the primary purpose of operating a railroad, and shall maintain unrestricted use of its property for current and future operations.

2) Agency or its contractor shall arrange and conduct its work so that there will be no interference with CSXT operations, including train, signal, telephone and telegraphic services, or damages to CSXT's property, or to poles, wires, and other facilities of tenants of CSXT's property or right-of-way.

3) Refer to the CSXT's "Design & Construction Standard Specifications Pipeline Occupancies" revised June 5, 2018 (4.1.2).

4) Work schedule is subject to the approval of all required construction submittals by the CSXT Construction Representative, verification that proposed work will not conflict with any CSXT U.G. Facilities, and the availability of CSXT Flagging and Protection Services. Construction submittals will be based upon the proposed scope of work and may include, but are not limited to; proposed work plan, project schedule, means and methods, site access, dewatering, temporary excavation/shoring, soil disposition/management, track monitoring, concrete placement work, structural lifting/rigging plans for hoisting operations, substructure construction plans, steel erection plans, roadwork plans, etc. No work may begin on, over, or adjacent to CSXT property, or that could potentially impact CSXT property, operations or safety without the prior completion and approval of the required aforementioned information and approvals.

5) Prior to construction, all signal facilities and/or warning devices at proposed facility crossing, i.e. cantilevers, flashers, and gates must be located and marked/flagged by CSXT. The traditional "One Call" utility locate services are not responsible for locating any CSXT under-grade utilities or facilities Contractor shall be held liable for any damages to CSXT communication & signal facilities.

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19) Blasting is not permitted under, on, or adjacent to CSXT property.

Revised January 31, 2023

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

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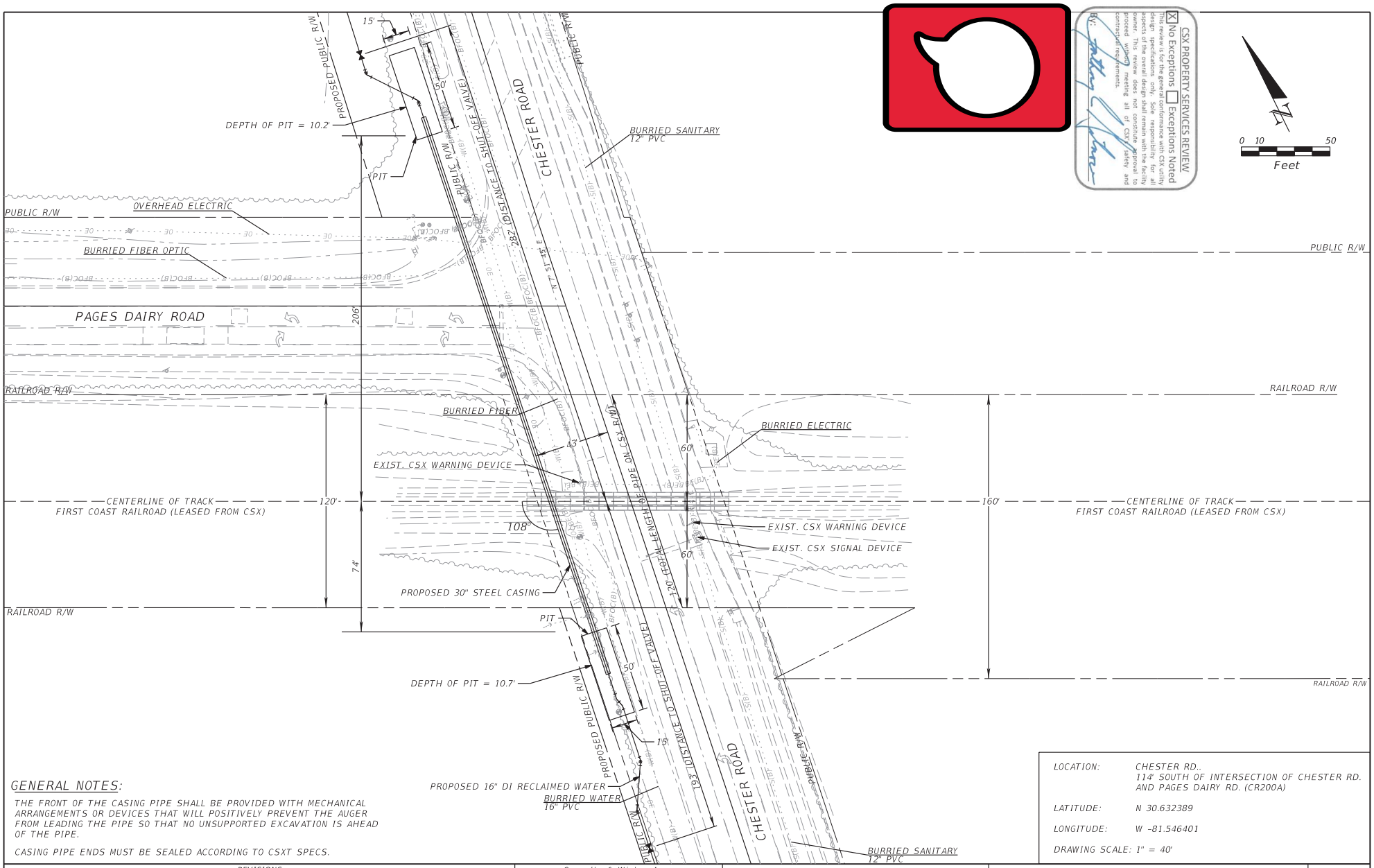
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25) Projects that generate soils from CSXT property must adhere to CSXT's soil management policies. CSXT requires soils generated from its property to either be reused on CSXT property or properly disposed in a CSXT approved disposal facility. CSXT environmental department will handle waste characterization and profiling into an approved disposal facility. CSXT prohibits any environmental sampling on its property unless granted through a written environmental right-of-entry or approved in writing by the CSXT environmental department. The management of soils generated from CSXT property should be planned for and properly permitted (if applicable) prior to initiating any work on CSXT property. A list of CSXT approved laboratories and/or disposal facilities may be obtained from the CSXT manager environmental pro

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27) Upon completion of project construction, contractor must submit to CSXT the as-built plans showing the final alignment on CSXT property, including actual depth of facility and any field change to location on CSXT property, pipe materials, number of innerducts, etc.



GENERAL NOTES:

THE FRONT OF THE CASING PIPE SHALL BE PROVIDED WITH MECHANICAL ARRANGEMENTS OR DEVICES THAT WILL POSITIVELY PREVENT THE AUGER FROM LEADING THE PIPE SO THAT NO UNSUPPORTED EXCAVATION IS AHEAD OF THE PIPE.

CASING PIPE ENDS MUST BE SEALED ACCORDING TO CSXT SPECS.

LOCATION: CHESTER RD.. 114' SOUTH OF INTERSECTION OF CHESTER RD. AND PAGES DAIRY RD. (CR200A)

LATITUDE: N 30.632389

LONGITUDE: W -81.546401

DRAWING SCALE: 1" = 40'

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

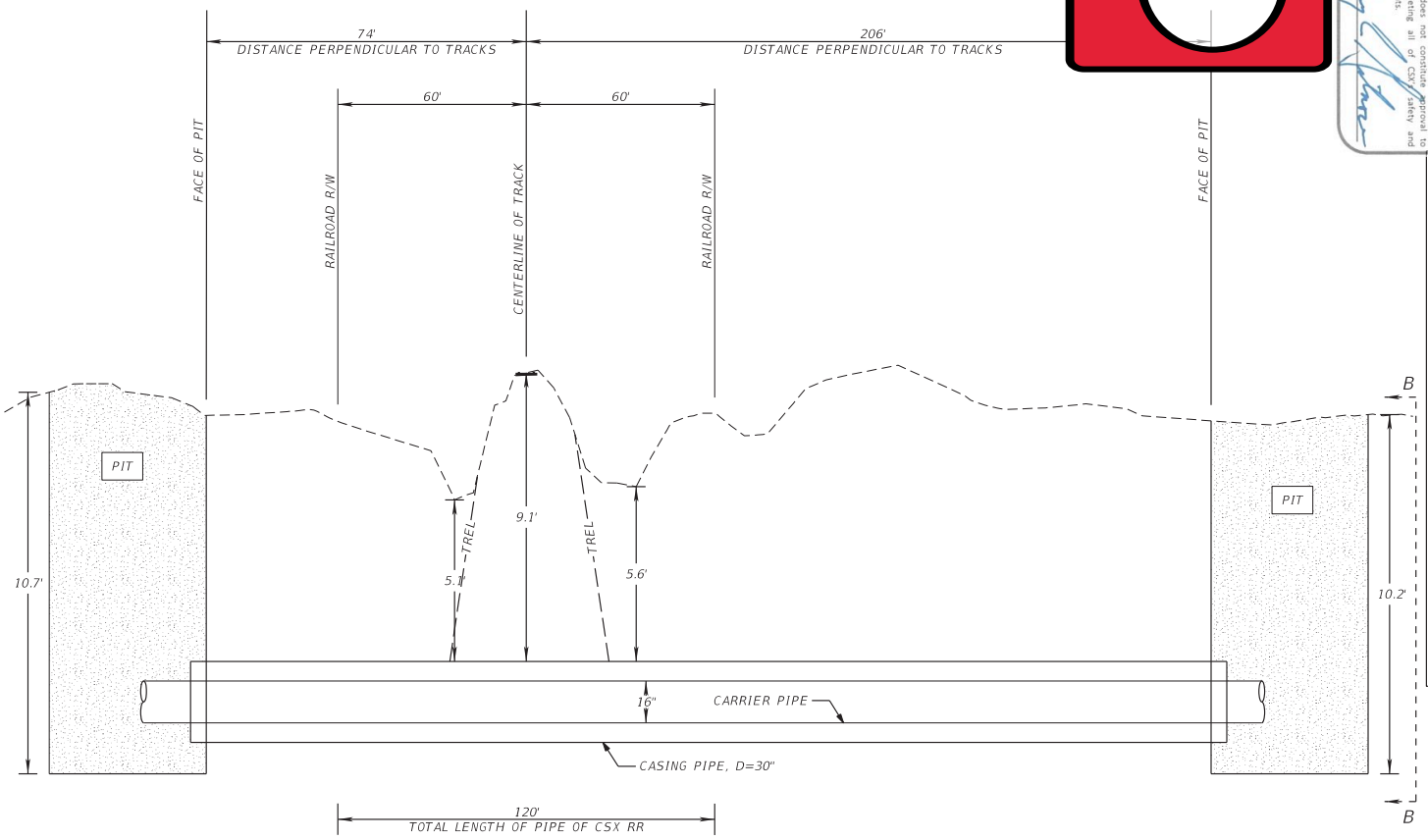
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

JACK AND BORE PLAN VIEW

SHEET NO.

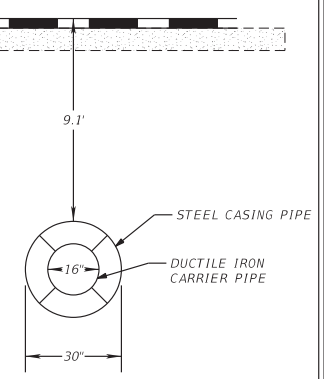
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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



CSX PROPERTY SERVICES REVIEW
☒ No Exceptions ☐ Exceptions Noted
This review is for the general conformance with CSX Utility Standards and specifications. Signature does not relieve the design engineer of the overall design responsibility for the facility owned. This review does not constitute approval to proceed with the work meeting all of CSX's safety and contractual requirements.
By:

CROSS SECTION VIEW
B-B



N.T.S

GENERAL NOTES:

THE FRONT OF THE CASING PIPE SHALL BE PROVIDED WITH MECHANICAL ARRANGEMENTS OR DEVICES THAT WILL POSITIVELY PREVENT THE AUGER FROM LEADING THE PIPE SO THAT NO UNSUPPORTED EXCAVATION IS AHEAD OF THE PIPE.

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LATITUDE:	N 30.632389
LONGITUDE:	W -81.546401
DRAWING SCALE: V	1" = 4'
DRAWING SCALE: H	1" = 40'

PIPELINE CONTENT DETAILS

COMMODITY DESCRIPTION:	PRESSURIZED/NON-FLAMMABLE (WATER MAIN)	
MAXIMUM OPERATING PRESSURE:	350 psi	
IS COMMODITY FLAMMABLE:	NO	
CARRIER/CASING PIPE DETAILS		
	CARRIER PIPE	CASING PIPE
PIPE MATERIAL:	DUCTILE IRON	STEEL
MATERIAL SPECIFICATIONS & GRADE:	ANSI A21.51	ASTM STANDARD A139
SPECIFIED MINIMUM YIELD STRENGTH:	42,000 psi	35,000 psi
NOMINAL SIZE OUTSIDE DIAMETER (INCHES):	17.4	30
WALL THICKNESS (INCHES):	0.7	.469
TYPE OF SEAM:	PUSH ON	WELDED
TYPE OF JOINTS:	MECH. RESTRAINED	WELDED
TUNNEL LINER PLATES REQUIRED:	NO	
CATHODIC PROTECTION:	NO	
PROTECTIVE COATING:	NO	
TEMP. TRACK SUPPORT OR RIP-RAP REQ.:	NO	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

JACK AND BORE PROFILE VIEW

SHEET NO.

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DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

500 Water Street, J180
Jacksonville, FL 32202
JUSTIN_ROERIG@CSX.COM

Justin Roerig
Real Estate Specialist

October 31, 2023

Agreement No.: CSX057906
Site Location No.: CSX057906049

JEA
21 W CHURCH STREET
TOWER 9
JACKSONVILLE, FL 32202

Dear Sir or Madam

You are now ready to begin the installation/work phase of the utility application process. JEA or its Contractor must complete and submit the Outside Party Request Form available on the CSX Property Portal, accessed by typing propertyportal.csx.com in a web browser. Prior to any work, construction submittal requirements as noted on Exhibit A attached hereto must be submitted to and approved by CSXT or its representative. No work on, over, or adjacent to CSXT property can take place without all necessary approvals, including, but not limited to, written confirmation from CSXT's Flagging Coordinator.

Agreement Date:	May 16, 2007	**Location:**	YULEE, NASSAU County, FL
		Milepost:	SMA 39.06
		Division:	
		Subdivision:	
		Latitude:	N303756
		Longitude:	W813246
Application Date:	July 31, 2023	**Facility:**	Subgrade Jack & Bore - Install 30in steel casing with 16in PVC inner duct for force main at a minimum depth of 5.5ft below rail to top of casing

Subject to the above referenced company scheduling the work as hereafter references, this letter will serve as formal authority to make the installation at the location shown on the attached approved print, in accordance with specifications outlined in your application, also attached hereto, and subject to the terms of said Agreements. This letter shall constitute a Supplement to said Agreement; please retain it in your file(s) pertaining to the same. To schedule the work, please visit the CSX Property Portal to complete the Outside Party Number Request Form. Pursuant to terms of the Agreement, the protection services fees will be invoiced upon completion of installation of the facilities.

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CSX Transportation (CSXT) General Notes (Bore and Jack):

Yulee, Florida
Engineering Region (Division): XXXXX / Sub Division: XXXXX / Nearest DOT: 620804A
Mile Post: SMA 39.06 / Lat_Long: 30.632353 / -81.546255

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Revised January 31, 2023

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

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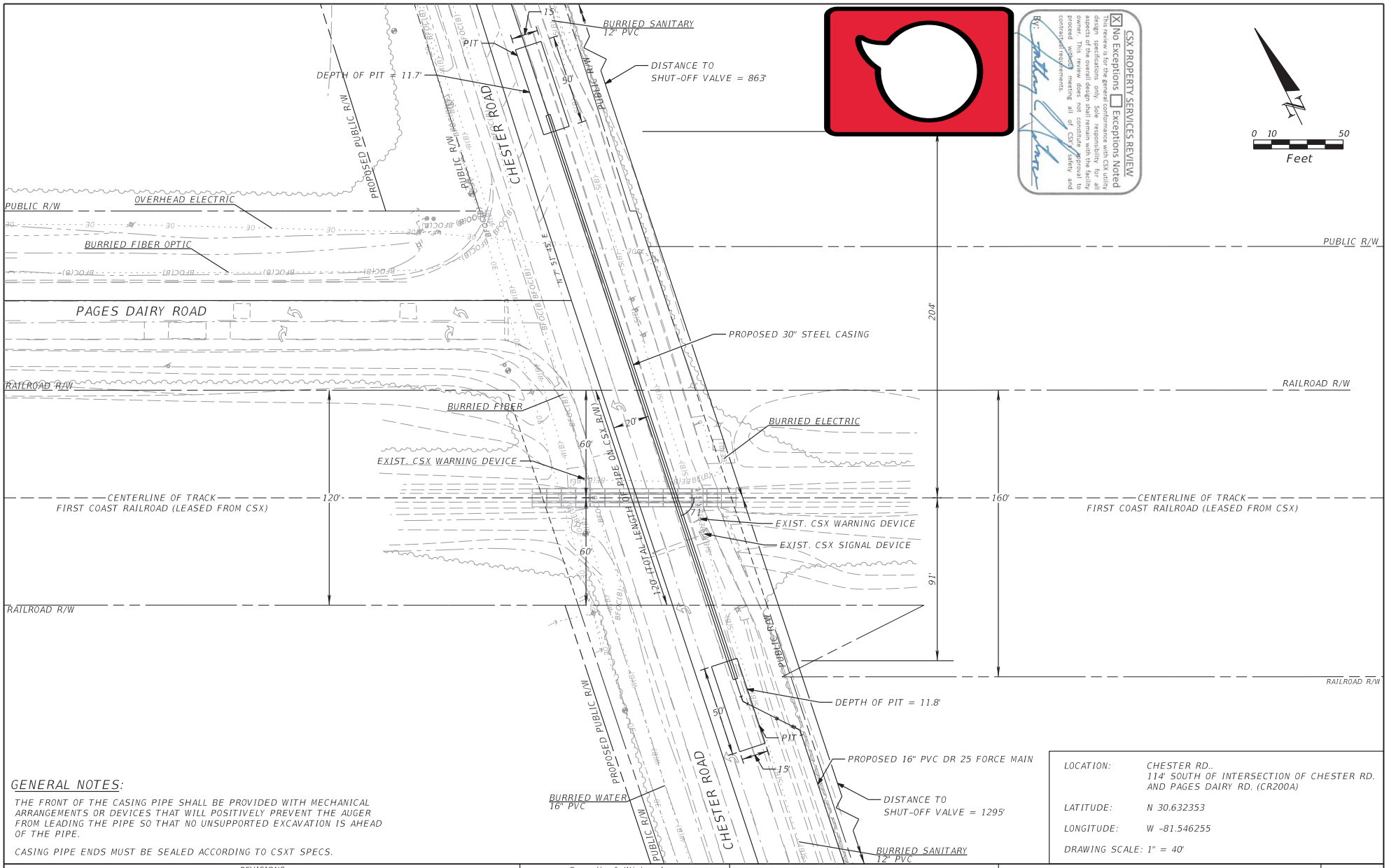
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CASING PIPE ENDS MUST BE SEALED ACCORDING TO CSXT SPECS.

LOCATION: CHESTER RD.. 114' SOUTH OF INTERSECTION OF CHESTER RD. AND PAGES DAIRY RD. (CR200A)

LATITUDE: N 30.632353

LONGITUDE: W -81.546255

DRAWING SCALE: 1" = 40'

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

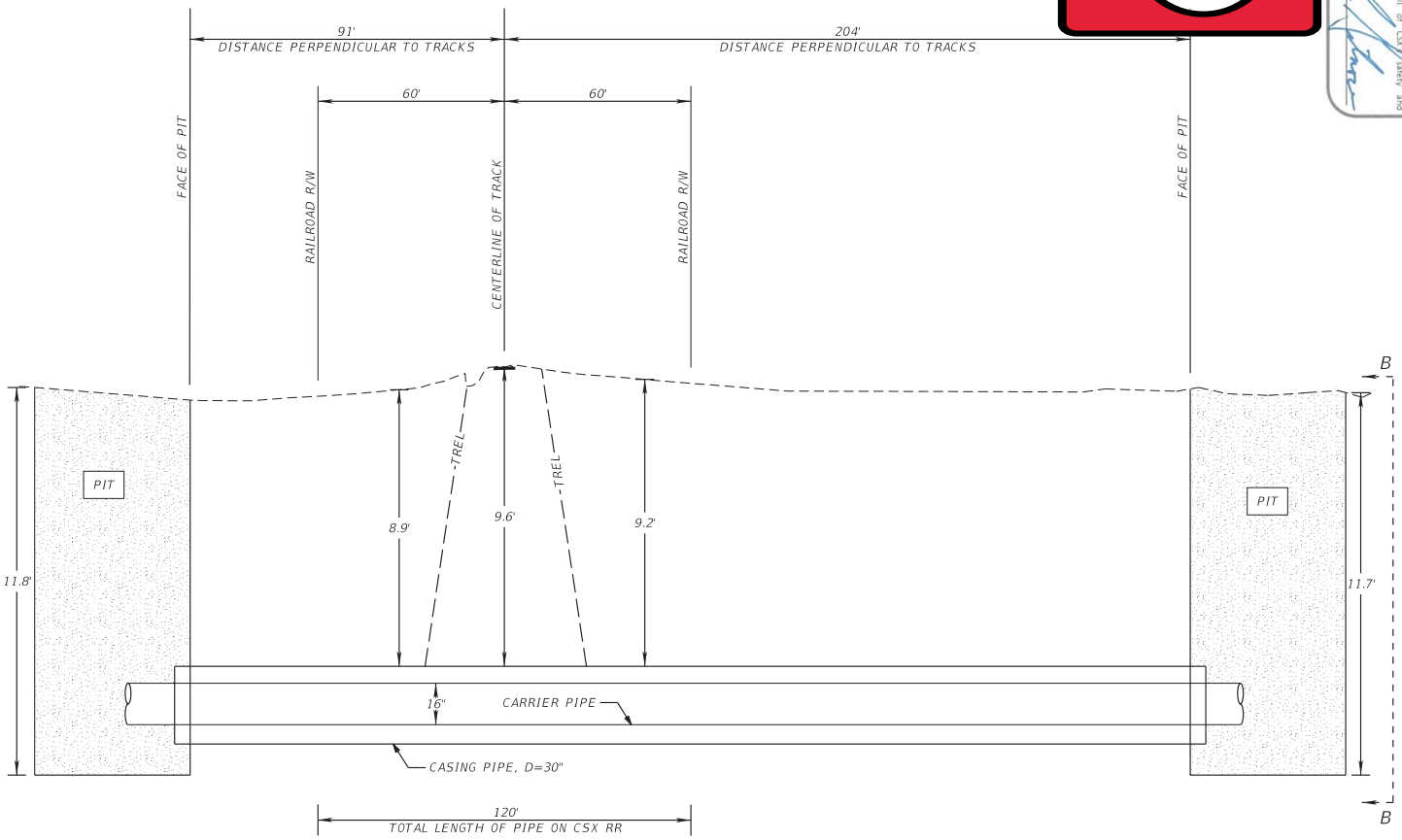
JACK AND BORE PLAN VIEW

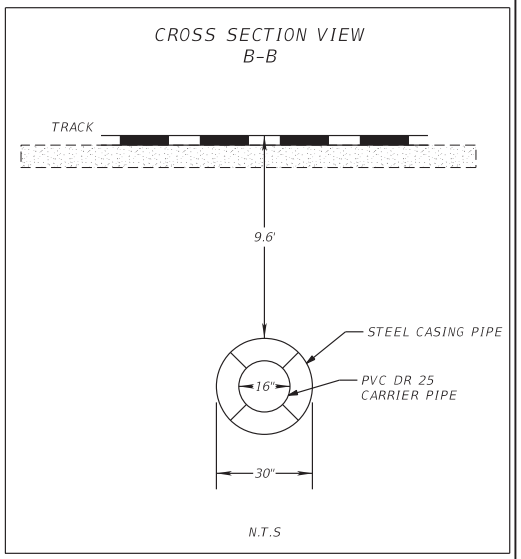
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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

CSX PROPERTY SERVICES REVIEW
☒ No Exceptions ☐ Exceptions Noted
This review is for the general conformance with CSX utility design specifications only. Sole responsibility for all aspects of the overall design shall remain with the facility owner. This review does not constitute approval to proceed without meeting all of CSX's safety and contractual requirements.
By:





GENERAL NOTES:

THE FRONT OF THE CASING PIPE SHALL BE PROVIDED WITH MECHANICAL ARRANGEMENTS OR DEVICES THAT WILL POSITIVELY PREVENT THE AUGER FROM LEADING THE PIPE SO THAT NO UNSUPPORTED EXCAVATION IS AHEAD OF THE PIPE.

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LOCATION:	CHESTER RD.. 114' SOUTH OF INTERSECTION OF CHESTER RD. AND PAGES DAIRY RD. (CR200A)
LATITUDE:	N 30.632353
LONGITUDE:	W -81.546255
DRAWING SCALE: V	1" = 4'
DRAWING SCALE: H	1" = 40'

PIPELINE CONTENT DETAILS

COMMODITY DESCRIPTION:	PRESSURIZED/NON-FLAMMABLE (FORCE MAIN)	
MAXIMUM OPERATING PRESSURE:	350 psi	
IS COMMODITY FLAMMABLE:	NO	
CARRIER/CASING PIPE DETAILS		
	CARRIER PIPE	CASING PIPE
PIPE MATERIAL:	PVC DR 25	STEEL
MATERIAL SPECIFICATIONS & GRADE:	ANSI/AWWA C905	ASTM STANDARD A139
SPECIFIED MINIMUM YIELD STRENGTH:	535 psi	35,000 psi
NOMINAL SIZE OUTSIDE DIAMETER (INCHES):	17.4	30
WALL THICKNESS (INCHES):	0.7	.469
TYPE OF SEAM:	PUSH ON	WELDED
TYPE OF JOINTS:	MECH. RESTRAINED	WELDED
TUNNEL LINER PLATES REQUIRED:	NO	
CATHODIC PROTECTION:	NO	
PROTECTIVE COATING:	NO	
TEMP. TRACK SUPPORT OR RIP-RAP REQ.:	NO	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

JACK AND BORE PROFILE VIEW

SHEET NO.

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APPENDIX G
JEA CONTRACT TERMS

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JEA CONTRACT TERMS AND CONDITIONS

1.1. DEFINITIONS

1.1.1. ACCEPTANCE

JEA's written notice by the Contract Administrator to the Company that all Work as specified for an individual service or repair has been completed to JEA to JEA's satisfaction. If Company does not receive a written notice from JEA within sixty (60) days from completion of the repair or service, the repair or service will be deemed to have reached Acceptance. Approval or recognition of the Company meeting a Milestone or interim step does not constitute Acceptance of that portion of the repair or services. Acceptance is only applicable to the entirety of the repair or service as specified in the Contract or Purchase Order. Acceptance does not in any way limit JEA's rights under the Contract or applicable laws, rules and regulations.

1.1.2. BID PRICE OR BID TOTAL

The total dollar amount of the Proposer's offer to successfully perform the Work in accordance with the Contract Documents.

1.1.3. PROPOSER

The document describing the Proposer's offer submitted in response to this Solicitation.

1.1.4. DEFINITIONS

Words and terms defined in this section shall have the same meaning throughout all parts of this Solicitation and Contract Documents. Where intended to convey the meaning consistent with that set forth in its definition, a defined word or term is marked by initial capitalization. The "Technical Specifications" portion of this Solicitation may define additional words and terms where necessary to clarify the Work. Unless otherwise stated in this Solicitation and/or Contract Documents, definitions set forth in the "Technical Specifications" shall apply only within the "Technical Specifications."

1.1.5. ADDENDUM/ADDENDA

A written change or changes to the Solicitation which is issued by JEA Procurement Services and is incorporated into the Solicitation as a modification, revision and/or further clarification of the intent of the Solicitation.

1.1.6. ANNIVERSARY DATE

The date which is twelve (12) months after the effective date of the Contract, and each date which is twelve (12) months after an Anniversary Date that occurs while the Contract is in effect.

1.1.7. AWARD

The written approval of the JEA Awards Committee that the procurement process for the purchase of the Work was in accordance with the JEA Procurement Code and Florida Statutes. Once an Award is approved, JEA will either issue a Purchase Order or execute a Contract with the successful Proposer or proposer.

1.1.1. BID

The document describing the Company's qualifications to verify it complies with the requirements of the IFB including Company’s price to perform the work..

1.1.2. BIDDER

The respondent to this IFB.

1.1.3. CHANGE ORDER

A written order issued after execution of the Contract to the Company signed by the Contract Administrator, or his designated representative, authorizing an addition, deletion, or revision of the Work, or an adjustment in the Contract Price or the Contract Time. Change Orders do not authorize expenditures greater than the monies encumbered by JEA, which is shown on the associated Purchase Order(s). An executed Change Order resolves all issues related to price and time for the Work included in the Change Order. A Change Order that involves a material change to the Contract may result in a Contract Amendment.

1.1.4. COMPANY

The legal person, firm, corporation or any other entity or business relationship with whom JEA has executed the Contract. Where the word "Company" is used it shall also include permitted assigns. Prime Contractor, Contractor, Vendor, Supplier and Company shall be considered synonymous for the purpose of the Contract.

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1.1.5. COMPANY REPRESENTATIVE

The individual responsible for representing the Company in all activities concerning the fulfillment and administration of the Contract.

1.1.6. COMPANY SUPERVISOR

The individual, employed or contracted by the Company, to manage the Work on a day-to-day basis and ensure the Work is performed according to the Contract. The Company Supervisor may be authorized by the Company Representative to act on Contract matters. Such authorization shall be in writing and delivered to the Contract Administrator and shall clearly state the limitations of any such authorization. In the event that the Company Supervisor and the Company Representative is the same person, the Company shall notify the Contract Administrator of such situation.

1.1.7. CONTRACT

An agreement between JEA and the Company, signed by both parties, which incorporates all the Contract Documents. The Contract shall not be altered without an Amendment to the Contract and executed by JEA and the Company, or a JEA issued Change Order.

1.1.8. CONTRACT ADMINISTRATOR

The individual assigned by JEA to have authority to administer the Contract, including the authority to negotiate all elements of the Contract with the Company, authorize Change Orders within the maximum amount awarded, terminate the Contract, seek remedies for nonperformance including termination, and otherwise act on behalf of JEA in all matters regarding the Contract. The Contract Administrator may authorize JEA Representative in writing to make minor changes to the Work with the intent of preventing Work disruption.

1.1.9. CONTRACT DOCUMENTS

Contract Documents, also referred to as the "Contract" means the executed Contract, all Solicitation documents and Bid Documents as further described in the Section of the Solicitation titled "Contract Documents", and any written Change Orders, amendments or Purchase Orders executed by JEA, and insurance and/or bonds as required by the Contract.

1.1.10. CONTRACT PRICE

The total amount payable to the Company during the initial Term of the Contract. However, this amount is not a guaranteed amount. Also referred to as the "Maximum Indebtedness" of JEA.

1.1.11. CONTRACT TIME

The number of calendar days or the period of time from when the written Purchase Order is issued to the Company, to the date Company has agreed to complete the Work, as set forth in the Contract Documents.

1.1.12. CONTRACTOR

The legal person, firm, corporation or any other entity or business relationship with whom JEA has executed the Contract. Where the word "Contractor" is used it shall also include permitted assigns. Contractor and Company shall be considered synonymous for the purpose of the Contract.

1.1.13. DEFECT

Work that fails to reach Acceptance, or Work that fails meet the requirements of any required test, inspection or approval, and any Work that meets the requirements of any test or approval, but nevertheless does not meet the requirements of the Contract Documents.

1.1.14. ENVIRONMENTAL REGULATIONS

All laws, ordinances, statutes, codes, rules, regulations, agreements, judgments, orders, and decrees, now or hereafter enacted, promulgated, or amended, of the United States, the states, the counties, the cities, or any other political subdivisions in which the Work Location is located, and any other political subdivision, agency or instrumentality exercising jurisdiction over JEA, the Work Location, or the use of the Work Location, relating to pollution, the protection or regulation of human health, natural resources, or the environment, or the emission, discharge, release or threatened release of pollutants, contaminants, chemicals, or industrial, toxic or hazardous substances or waste or Hazardous Materials (as defined in this Contract) into the environment (including, without limitation, ambient air, surface water, ground water or land or soil).

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1.1.15. HAZARDOUS MATERIALS

Any substance which is or contains (i) any "hazardous substance" as now or hereafter defined in the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended (42 U.S.C. '9601 et seq.) ("CERCLA") or any regulations promulgated under or pursuant to CERCLA; (ii) any "hazardous waste" as now or hereafter defined in the Resource Conservation and Recovery Act (42 U.S.C. '6901 et. seq.) ("RCRA") or regulations promulgated under or pursuant to RCRA; (iii) any substance regulated by the Toxic Substances Control Act (15 U.S.C. '2601 et seq.); (iv) gasoline, diesel fuel, or other petroleum hydrocarbons; (v) asbestos and asbestos containing materials, in any form, whether friable or non-friable; (vi) polychlorinated biphenyls; (vii) radon gas; and (viii) any additional substances or materials which are now or hereafter classified or considered to be hazardous or toxic under Environmental Requirements (as hereinafter defined) or the common law, or any other applicable laws relating to the Licensed Property. Hazardous Materials shall include, without limitation, any substance, the presence of which on the Licensed Property, (A) requires reporting, investigation or remediation under Environmental Requirements; (B) causes or threatens to cause a nuisance on the Licensed Property or adjacent property or poses or threatens to pose a hazard to the health or safety of persons on the Licensed Property or adjacent property; or (C) which, if it emanated or migrated from the Licensed Property, could constitute a trespass.

1.1.16. HOLIDAYS

The following days: New Year's Day, Martin Luther King Jr. Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day, Day after Thanksgiving, Christmas Eve Day, and Christmas Day.

1.1.1. INVITATION TO BID

The document (which may be electronic) issued by the JEA Procurement Department to solicit Bids from Companies that includes, but is not limited to, the Minimum Qualifications Form, samples of contract documents and Addenda.

1.1.2. INVOICE

A document seeking payment to Company from JEA for all or a portion of the Work, in accordance with the Contract Documents, and including at a minimum the following items: the Company's name and address, a description of the product(s) or service(s) rendered, a valid JEA PO number, the amount payable, the Unit Price, the payee name and address, any associated JSEB forms and any other supporting documentation required by the Contract Documents.

1.1.3. JEA

JEA on its own behalf.

1.1.4. JEA REPRESENTATIVES

The Contract Administrator, Contract Inspector, Contract Administrator's Representative, JEA Engineer, Field Engineer, Project Manager, and other persons designated by the Contract Administrator as JEA Representatives acting in a capacity related to the Work or Contract under the authority of the Contract Administrator.

1.1.5. PERFORMANCE - ACCEPTABLE PERFORMANCE/PERFORMER

The Company averages more than 2.80 and less than 4.0 across all performance scorecard evaluation metrics, and does not receive a score of less than 2.0 on any metric.

1.1.6. PERFORMANCE - TOP PERFORMANCE/PERFORMER

The Company averages 4.0 or more across all scorecard evaluation metrics and does not receive a score of less than 4.0 on any one metric.

1.1.7. PERFORMANCE - UNACCEPTABLE PERFORMANCE/PERFORMER

The Company averages less than 2.80 across all scorecard evaluation metrics, or scores a 1.0 on any one metric regardless of average, or receives a score of 2.0 on the same metric on two sequential performance evaluations.

1.1.8. QUALITY ASSURANCE

Actions that JEA takes to assess the Company's performance under the Contract.

1.1.9. QUALITY CONTROL

Actions that the Company takes to ensure it successfully completes the Work in full accordance with the Contract Documents.

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1.1.10. SOLICITATION

The documents (which may be electronic) issued by JEA's Procurement Department to solicit Bids from Proposers that includes, but is not limited to, the Bid Documents, Bid Workbook, samples of documents, contractual terms and conditions, the Technical Specifications, and associated Addenda.

1.1.11. SUBCONTRACTOR

A provider of services performing Work under contract for the Company.

1.1.12. SUPPLEMENTAL WORK AUTHORIZATION (SWA)

A written order, issued at the sole discretion of the JEA representative, which incorporates cost or schedule changes into the Contract. The SWA shall be used for increases or decreases in the Contract Price within the SWA amount set forth on the Bid Form, or to makes changes in the schedule for performance of the Work, or to authorize the Company to perform changes in the Work.

1.1.13. TASK ORDER

A document that describes the Work or describes a series of tasks that the Company will perform in accordance with the Contract Documents. A Task Order may be issued as an attachment to a Purchase Order, but the Task Order is neither a Purchase Order, nor a Notice to Proceed.

1.1.14. TERM

The period of time during which the Contract is in force or until the Contract's Maximum Indebtedness is reached, whichever occurs first.

1.1.15. UNIT PRICES

The Proposer's charges to JEA for the performance of each respective unit of Work as defined on the Bid Documents, Bid Workbook, Bid Form or in the Contract Documents.

1.2. CONTRACT DOCUMENTS

1.2.1. ORDER OF PRECEDENCE

The Contract shall consist of JEA's Contract and/or Purchase Order together with the Solicitation including, but not limited to, the executed Bid Documents, which shall be collectively referred to as the Contract Documents. This Contract is the complete agreement between the parties. Parol or extrinsic evidence will not be used to vary or contradict the express terms of this Contract. The Contract Documents are complementary; what is called for by one is binding as if called for by all. The Company shall inform JEA in writing of any conflict, error or discrepancy in the Contract Documents upon discovery. Should the Company proceed with the Work prior to written resolution of the error or conflict by JEA, all Work performed is at the sole risk of the Company. JEA will generally consider this precedence of the Contract Documents in resolving any conflict, error, or discrepancy, with the first listed documents controlling over later listed documents, with the first listed documents controlling over later listed documents:

- Executed Contract Amendments
- Executed Contract Documents
- Exhibits to Contract Documents
- Purchase Order(s)
- Addenda to JEA Solicitation
- Drawings associated with this Solicitation
- Exhibits and Attachments to this Solicitation
- Technical Specifications associated with this Solicitation
- This Solicitation
- Bid Documents
- References

The figure dimensions on drawings shall govern over scale dimensions. Contract and detailed drawings shall govern over general drawings. The Company shall perform any Work that may reasonably be inferred from the Contract as being required whether or not it is specifically called for. Work, materials or equipment described in words that, so applied, have a well- known technical or trade meaning shall be taken as referring to such recognized standards.

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1.3. PRICE AND PAYMENTS

1.3.1. PAYMENT METHOD – MONTHLY PAYMENTS

Upon Company's completion of and JEA's Acceptance of the completion of each monthly activity, JEA will be paying a monthly invoice for work performed that month. The actual amount of the invoice may be from multiple Bid Form line items, summed together to make the total monthly invoice.

1.3.2. INVOICING AND PAYMENT TERMS AND RETAINAGE

Within sixty (60) days of completion of the Work, the Company shall submit all Invoices or Applications for Payment in accordance with the payment method agreed upon in these Contract Documents. All Invoices shall be submitted to the following email address: ACCTPAYCUSSRV@JEA.com, or if Company does not have email capabilities, it can send its hard copy Invoice to the following address:

JEA Accounts Payable, P.O. Box 4910, Jacksonville, FL 32201-4910.
JEA will pay the Company the amount requested less any holdbacks or retainage set forth in herein within thirty (30) calendar days after receipt of an Invoice from the Company subject to the provisions stated below.

JEA may reject any Invoice or Application for Payment within 20 calendar days after receipt. JEA will return the Invoice or Application for Payment to the Company stating the reasons for rejection. Upon receipt of an acceptable revised Invoice or Application for Payment, JEA will pay the Company the revised amount within ten (10) days.

JEA may withhold payment if the Company is in violation of any conditions or terms of the Contract Documents.

As security for the proper performance of the Work, JEA may deduct ten percent (10%) retainage, or such other amount allowable pursuant to Florida law, from the amount stipulated in the Invoice or Application for Payment. In accordance with Florida Statutes, after completion of fifty percent (50%) of the Work, a maximum retainage of five percent (5%) may be deducted. For the purposes of this section, "completion of fifty percent of the Work" shall be defined as the point at which fifty percent of the total cost of the Work, as defined, and inclusive of authorized change orders, has been expended by JEA.

In the case of early termination of the Contract, all payments made by JEA against the Contract Price prior to notice of termination shall be credited to the amount, if any, due the Company. If the parties determine that the sum of all previous payments and credits exceeds the sum due the Company, the Company shall refund the excess amount to JEA within ten (10) days of determination or written notice.

1.3.3. COST SAVINGS PLAN

During the Term of this Contract, JEA and Company are encouraged to identify ways to reduce the total cost to JEA related to the Work provided by the Company ("Cost Savings Plan"). JEA and Company may negotiate Amendments to this Contract that support and allow such reductions in total costs including, but not limited to, the sharing of savings resulting from implementation of cost-reducing initiatives between JEA and Company. The decision to accept any cost savings plan shall be in the sole discretion of JEA, and JEA shall not be liable to Company for any cost that may be alleged to be related to a refusal to accept a Cost Savings Plan proposed by Company.

1.3.4. DISCOUNT PRICING

JEA offers any or all of the following option payment terms, one of which may be executed at the request of the Company by sending an email to the JEA Buyer listed in this Solicitation:

- 1% 20, net 30
- 2% 10, net 30

Company may request alternate payment terms for JEA's consideration, however, alternate payment terms are not effective until acceptance by JEA in writing. Please note, all payment dates are calculated from the date of the Invoice receipt by JEA's Accounts Payable.

1.3.5. JSEB - INVOICING AND PAYMENT

If the Company utilizes JSEB certified firms, regardless of whether these Contract Documents require or encourage the use of such firms, the Company shall Invoice for and report the use of JSEB certified firms according to the format and guidelines established by the City of Jacksonville.

1.3.6. OFFSETS

In case the Company is in violation of any requirement of the Contract, JEA may withhold payments that may be due the Company, and may offset existing balances with any JEA incurred costs against funds due the Company under this and any

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other Company Contract with JEA, as a result of the violation, or other damages as allowed by the Contract Documents and applicable law.

1.3.7. PROMPT PAYMENT TO SUBCONTRACTORS, SUB-SUBCONTRACTORS AND SUPPLIERS

When the Company receives payment from JEA for labor, services or materials furnished by Subcontractors and suppliers that are hired by the Company, the Company shall remit payment due (less proper retainage) to those Subcontractors and suppliers within 10 days after the Company's receipt of payment from JEA. Nothing herein shall prohibit the Company from disputing, pursuant to the terms hereof, all or any portion of a payment alleged to be due to its Subcontractors and suppliers. In the event of such dispute, the Company may withhold the disputed portion of any such payment only after the Company has provided written notice to JEA and to the Subcontractor and supplier whose payment is in dispute, stating the amount in dispute and specifically describing the actions required to cure the dispute. The Company shall deliver such notice to JEA and to the said Subcontractor or supplier within 10 days following the Company's receipt of payment from JEA. The Company shall pay all undisputed amounts due within the time frames specified herein.

The prompt payment requirements herein shall, in no way, create any contractual relationship or obligation between JEA and any Subcontractor, supplier, JSEB, or any third-party, nor create any JEA liability for the Company's failure to make timely payments as required. The Company's failure to comply with the prompt payment requirements, however, shall constitute a material breach of its contractual obligations to JEA. As a result of such breach, JEA, without waiving any other available remedy it may have against the Company, may issue joint checks and charge the Company a 0.2% daily late payment interest charge or charges as specified within the Florida Statutes, whichever is greater.

1.3.8. TAXES

JEA is authorized to self-accrue the Florida Sales and Use Tax and is exempt from Manufacturer's Federal Excise Tax when purchasing tangible personal property for its direct consumption.

1.4. SCHEDULES, REPORTING REQUIREMENTS AND LIQUIDATED DAMAGES

1.4.1. REPORTING

The Company shall provide all reports as defined in the Contract Documents.

Where the reporting frequency is daily, reports shall be submitted by noon of the following workday. Where the reporting frequency is weekly, reports are due by Monday at noon, covering the prior workweek. Where Monday is a Holiday, the reports are due at noon on the next workday. Where reports are due monthly, reports are due by noon on the first business day of each month. Sample forms for reports may be included in the Contract Documents. Where they are included, they are to be used. Where they are not included, the Company shall provide a sample of its proposed report format for each report to the Contract Administrator at least one-week prior to its initial due date. The Contract Administrator will review and either approve or reject use of the report. Where proposed report is rejected, Company shall resubmit revised report formats, until Contract Administrator approves format. Reporting cycle shall begin upon the Purchase Order date, or, if used, the issuance date of the Notice to Proceed.

Where the Contract calls for reports to be submitted by Company, such reports shall be in both paper and electronic format, with the electronic version submitted electronically via email to the Contract Administrator.

1.4.2. WORK SCHEDULES

The Approved Schedule is referenced in the Technical Specifications attached to this Solicitation. If no schedule is provided, then the established schedule is based on working five (5) days per week, single shift, eight (8) hours per day or four (4) days per week, single shift, ten (10) hours per day. JEA may require the Company to base its schedule on an accelerated Work schedule or multiple shifts. The Company shall not schedule work on Holidays without obtaining prior written approval from JEA.

The Company shall, at no additional cost to JEA, increase or supplement its working force and equipment and perform the Work on an overtime or multiple shift basis when directed by JEA and upon notification that the Company is behind schedule. The Company shall submit a revised schedule in writing demonstrating the Company's schedule recovery plans.

The Company understands and agrees that the rate of progress set forth in the Approved Schedule already allows for ordinary delays incident to the Work. No extension of the Contract Term will be made for ordinary delays, inclement weather, or accidents, and the occurrence of such events will not relieve the Company from requirement of meeting the approved schedule.

1.4.3. GENERAL CONDITIONS/SPECIAL CONDITIONS

The line item shown on the Bid Form titled "General/Special Conditions Lump Sum Price" shall be used for general and special expenses which do not appear as separate line items on the Bid Form, including, but not limited to, costs and expenses related to the following:

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- the execution and recording of the Payment and Performance Bonds
- safety requirements
- Quality Control
- preparation of daily reports
- maintenance of traffic
- attendance of meetings, project scheduling
- testing (if not included elsewhere)

Except as provided below for expenses related to Bonds and Surveying, JEA's payment for the General/Special Conditions line item shall be based upon the percentage of Work completed.

Bonds- Company will be permitted to invoice JEA, in its first payment application, for the costs associated with the execution and recording of the Payment and Performance Bonds. The amount paid by JEA for the Payment and Performance Bonds will be deducted from the General/Special Conditions line item total.

Surveying- Prior to construction, the Company will be permitted to invoice JEA for the costs associated with the survey of the existing roadway horizontal alignment. The amount paid by JEA for these costs will be deducted from the General/Special Conditions line item total.

SWA- In the event that JEA authorizes changes to the Work under a Supplemental Work Authorization (SWA), the amount of the Bid Form line item for SWA Allowance will not be increased unless the total value of all SWA Work exceeds the Original SWA Allowance provided on the Bid Form.

1.4.4. PUNCH LIST: SECTION 218.735, FLORIDA STATUTES

Within 30 calendar days after reaching Substantial Completion, as defined herein, the parties shall jointly develop a final list of items required to render the Work complete, satisfactory, and acceptable (the "Punchlist"). If the parties cannot agree on the Punchlist, JEA will develop a Punchlist and deliver it to Company within 35 days after Substantial Completion. If the Work involves more than one building or structure or involves a multi-phased project, one Punchlist should be developed for each building, structure, or phase. Failure to include corrective work on the Punchlist does not relieve the Company from its responsibility to complete the Work required by the Contract.

Final Completion must be achieved within 30 days after delivery of the Punchlist to Company. Notwithstanding anything in the Contract Documents to the contrary, damages may not be assessed against Company for failing to complete the Work unless Company fails to complete the Work within such 30 day period.

1.4.5. SUBSTANTIAL COMPLETION

The Company shall notify JEA in writing when a portion of the Work is Substantially Complete. The Company shall identify any deficiencies in the Work. JEA will inspect the Work and will give the Company written notice of either acceptance or rejection of the Work as Substantially Complete and provide a list of additional deficiencies. The Company shall correct all deficiencies prior to Final Completion of the Work by JEA.

Whenever any portion of the Work is Substantially Complete, JEA may use it. Such use shall not be held in any way as an Acceptance of the Work or as a waiver of any provisions of the Contract.

1.4.6. CERTIFICATE OF CONTRACT COMPLETION AND FINAL PAYMENT

Company shall complete and submit to JEA the Certificate of Contract Completion, which can be found on jea.com, as notice that the Work, including the correction of all deficiencies outlined in the Punchlist, is complete.

By submitting the certificate, the Company certifies the following:

- the Work, including all Punchlist items, has been satisfactorily completed; and
- no liens have attached against the property and improvements of JEA; and
- no notice of intention to claim liens are outstanding; and
- no suits are pending by reason of the Work; and
- all workers' compensation claims known to the Company have been reported to JEA; and
- the surety provides a release; and
- all warranties, equipment manuals and other documentation have been provided; and
- no public liability claims are pending.

The Company shall submit its final Invoice with the completed Certificate of Contract Completion. JEA shall make Final Payment in accordance with the provisions contained herein. Final Payment includes payment of any retainage held.

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1.4.7. LIQUIDATED DAMAGES UNTIL ACCEPTANCE

If the Company fails to obtain Substantial Completion of the Work on or before 240 days after date of Notice to Proceed, the Company shall pay JEA the sum of $2,000.00 per day for each and every calendar day, including Sundays and Holidays, starting on this day until the date the Work is Substantially Completed.

If the Company fails to obtain JEA's Acceptance of the Work on or before 270 days after date of Notice to Proceed, the Company shall pay JEA the sum of $1,600.00 per day for each and every calendar day, including Sundays and Holidays, starting on the day the Work was deemed by JEA to be Substantially Complete until the date the Work is Accepted by JEA.

Liquidated Damages are capped at a maximum of ten percent (10%) of the Contract Price. However, if the amount of Liquidated Damages incurred by the Company is 5% or less than the Contract Price, the Company will not be imputed with Liquidated Damages but will pay such amount to JEA as an administrative charge (the “Administrative Charge”).

The Company understands and agrees that said daily sum is to be paid not as a penalty, but as compensation to JEA as a fixed and reasonable liquidated damages for losses that JEA will suffer because of such default, whether through increased administrative and engineering costs, interference with JEA's normal operations, other tangible and intangible costs, or otherwise, which costs will be impossible or impractical to measure or ascertain with any reasonable specificity.

Liquidated damages may, at JEA's sole discretion, be deducted from any monies held by JEA that are otherwise payable to Company.

The Company's responsibility for liquidated damages shall in no way relieve the Company of any other obligations under the Contract.

1.5. JSEB COMPLIANCE

1.5.1. COMPLIANCE WITH JSEB REQUIREMENTS

The Proposer/Proposer shall achieve the JSEB participation requirements as set forth in the Solicitation, except as allowed under the good faith efforts exception as defined in the City of Jacksonville Ordinance. In no case shall the Proposer/Proposer make changes to the JSEB firms listed in its Bid, revise the JSEB scope of Work or amount of Work as stated in its Bid without prior written notice to the Contract Administrator, and without subsequent receipt of written approval from the Contract Administrator.

The City of Jacksonville requirements as outlined in the City of Jacksonville Ordinance relating to JSEBs shall apply in their entirety to this Contract. Where the City of Jacksonville ordinance refers to "Chief", it shall be construed to mean, for purposes of this Contract, JEA's Chief Purchasing Officer. In a like manner, where it refers to "City", or "City of Jacksonville", it shall be construed to mean JEA.

Use of brokering, as defined in the City of Jacksonville Ordinance, or other techniques that do not provide a commercially useful function are strictly prohibited as means of achieving the JSEB requirements of the Contract. Only the amount of fees or commissions charged by a JSEB for providing a bona fide service such as professional, technical, consultant, or managerial services, or for providing bonds or insurance specifically required for the performance of a contract shall be counted towards a JSEB participation requirement, provided the fee is reasonable and not excessive as compared with fees customarily charged for similar services.

Payment terms for participating JSEB firms shall be the same or better than the payment terms the Proposer/Proposer receives from JEA, except that in all cases JSEB firms shall be allowed to submit invoices to the Proposer/Proposer at least bimonthly, and the Proposer/Proposer shall pay proper invoices no later than 3 days after its receipt of JEA payment. The Proposer/Proposer shall obtain written approval from the Contract Administrator prior to withholding any payment from JSEB firm.

If the Proposer/Proposer uses a JSEB qualified firm for the performance of any part of this Work, the Proposer/Proposer shall submit to JEA, with its Invoice, a listing of JSEB qualified firms that have participated in the Work. Such listing shall be made using the form "Monthly Report for COJ/JEA JSEB Participation" available at www.jea.com

The Proposer/Proposer agrees to let JEA audit its financial and operating records with one day of notice, and during normal business hours, at its corporate offices for the purpose of determining compliance with all JSEB requirements of the Contract Documents.

If the Proposer/Proposer violates any provision regarding JSEB, including, but not limited to, program intent, the

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Proposer/Proposer shall be subject to any or all of the following, plus any other remedies available to JEA under law:

- Terminate the Contract for breach
- Suspend the Proposer/Proposer from bidding any JEA projects as follows:

- First offense: six months
- Second offense: one year

- Third offense: three years
- Revoke Proposer/Proposer's JSEB certification if the Proposer/Proposer itself is certified as a JSEB.

1.6. WARRANTIES AND REPRESENTATIONS

1.6.1. WARRANTY

Unless otherwise stated herein or in Appendix A - Technical Specifications, the Company unconditionally warrants to JEA for a period of not less than one (1) year from the date of issuance of the Certificate of Substantial Completion, that all Work furnished under the Contract, including but not limited to, materials, equipment, workmanship, and intellectual property, including derivative works will be:

- performed in a safe, professional and workman like manner; and
- free from Defects in design, material, and workmanship; and
- fit for the use and purpose specified or referred to in the Contract; and
- suitable for any other use or purpose as represented in writing by the Contractor; and
- in conformance with the Contract Documents; and
- merchantable, new and of first-class quality.

The Company warrants that the Work shall conform to all applicable standards and regulations promulgated by federal, state, local laws and regulations, standards boards, organizations of the Department of State, and adopted industry association standards. If the Work fails to conform to such laws, rules, standards and regulations, JEA may return the Work for correction or replacement at the Company's expense, or return the Work at the Company's expense and terminate the Contract.

If the Company performs services that fail to conform to such standards and regulations or to the warranties set forth in the first paragraph of this Section, the Company shall make the necessary corrections at Company's expense. JEA may correct any services to comply with standards and regulations at the Company's expense if the Company fails to make the appropriate corrections within a reasonable time after notice of the Defect from JEA.

If Work includes items covered under a manufacturer's or Subcontractor's warranty that exceeds the requirements stated herein, Company shall transfer such warranty to JEA. Such warranties, do not in any way limit the warranty provided by the Company to JEA.

If, within the warranty period, JEA determines that any of the Work is defective or exhibit signs of excessive deterioration, the Company at its own expense, shall repair, adjust, or replace the defective Work to the complete satisfaction of JEA. The Company shall pay all costs of removal, transportation, reinstallation, repair, and all other associated costs incurred in connection with correcting such Defects in the Work. The Company shall correct any Defects only at times designated by JEA. The Company shall extend the warranty period an additional 12 months for any portion of the Work that has undergone warranty repair or replacement, but in no case shall the maximum warranty period be extended beyond thirty six (36) months.

JEA may repair or replace any defective Work at the Company's expense when the Company fails to correct the Defect within a reasonable time of receiving written notification of the Defect by JEA, when the Company is unable to respond in an emergency situation or when necessary to prevent JEA from substantial financial loss. Where JEA makes repairs or replaces defective Work, JEA will issue the Company a written accounting and invoice of all repair work required to correct the Defects.

Where spare parts may be needed, Company warrants that spare parts will be available to JEA for purchase for at least 75 percent of the stated useful life of the product.

The Company's warranty excludes any remedy for damage or Defect caused by abuse, improper or insufficient maintenance, improper operation, or wear and tear under normal usage.

Note that JEA intends to perform a warranty inspection prior to the expiration of the warranty period. JEA will notify the Company and the Company Representative shall attend the inspection. All discrepancies identified at said inspection shall be corrected by the Company within a reasonable timeframe.

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1.7. INSURANCE, INDEMNITY, RISK OF LOSS

1.7.1. INSURANCE REQUIREMENTS

Before starting the Work and until the expiration or termination of the Contract by JEA, and without further limiting its liability under the Contract, Company shall procure and maintain at its sole expense, insurance of the types and in the minimum amounts stated below:

Workers' Compensation
Florida Statutory coverage and Employer's Liability (including appropriate Federal Acts); Insurance Limits: Statutory Limits (Workers' Compensation) $500,000 each accident (Employer's Liability).

Commercial General Liability
Premises-Operations, Products-Completed Operations, Contractual Liability, Independent Contractors, Broad Form Property Damage, Explosion, Collapse and Underground, Hazards (XCU Coverage) as appropriate; Insurance Limits: $1,000,000 each occurrence, $2,000,000 annual aggregate for bodily injury and property damage, combined single limit.

Automobile Liability
All autos-owned, hired, or non-owned; Insurance Limits: $1,000,000 each occurrence, combined single limit.

Excess or Umbrella Liability
(This is additional coverage and limits above the following primary insurance: Employer's Liability, Commercial General Liability, and Automobile Liability); Insurance Limits: $4,000,000 each occurrence and annual aggregate.

Company's Commercial General Liability and Excess or Umbrella Liability policies shall be effective for two (2) years after Work is complete. The Indemnification provision provided herein is separate and is not limited by the type of insurance or insurance amounts stated above.

Company shall specify JEA as an additional insured for all coverage except Workers' Compensation and Employer's Liability. Such insurance shall be primary to any and all other insurance or self-insurance maintained by JEA. Company shall include a Waiver of Subrogation on all required insurance in favor of JEA, its board members, officers, employees, agents, successors and assigns.

Such insurance shall be written by a company or companies licensed to do business in the State of Florida and satisfactory to JEA. Prior to commencing any Work under this Contract, certificates evidencing the maintenance of the insurance shall be furnished to JEA for approval. Company's and its subcontractors' Certificates of Insurance shall be mailed to JEA (Attn. Procurement Services), Customer Care Center, 6th Floor, 21 West Church Street, Jacksonville, FL 32202-3139.

The insurance certificates shall provide that no material alteration or cancellation, including expiration and non-renewal, shall be effective until thirty (30) days after receipt of written notice by JEA.

Any subcontractors of Company shall procure and maintain the insurance required of Company hereunder during the life of the subcontracts. Subcontractors' insurance may be either by separate coverage or by endorsement under insurance provided by Company. Note: Any JSEB firms identified by for this Solicitation are considered "Subcontractors" under the direct supervision of the Prime or General Contractor (herein referred to as "Company"). Companies should show good faith efforts in providing assistance to JSEB firms in the securing of the Subcontractors' insurance requirements stated herein. Company shall submit subcontractors' certificates of insurance to JEA prior to allowing Subcontractors to perform Work on JEA's job sites.

1.7.2. ENVIRONMENTAL INDEMNIFICATION

The Company shall hold harmless and indemnify JEA and Florida Power and Light (FPL), including without limitation, its officers, directors, members, representatives, affiliates, agents and employees, successors and assigns (the "Indemnified Parties") and will reimburse the Indemnified Parties from and against any and all claims, suits, demands, judgments, losses,

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costs, fines, penalties, damages, liabilities and expenses (including all costs of cleanup, containment or other remediation, and all costs for investigation and defense thereof including, but not limited to, court costs, reasonable expert witness fees and attorney fees) arising from or in connection with (a) the Company's, including, but not limited to, its agents, affiliates or assigns ("Parties"), actions or activities that result in a violation of any environmental law, ordinance, rule, or regulation or that leads to an environmental claim or citation or to damages due to the Company's or other Parties' activities, (b) any environmental, health and safety liabilities arising out of or relating to the operation or other activities performed in connection with this Contract by the Company or any Party at any time on or after the effective date of the Contract, or (c) any bodily injury (including illness, disability and death, regardless of when any such bodily injury occurred, was incurred or manifested itself), personal injury, property damage (including trespass, nuisance, wrongful eviction and deprivation of the use of real property) or other damage of or to any person in any way arising from or allegedly arising from any hazardous activity conducted by the Company or any Party. JEA and FPL will be entitled to control any remedial action, any proceeding relating to an environmental claim. This indemnification agreement is separate and apart from, and is in no way limited by, any insurance provided pursuant to this Contract or otherwise. This section relating to indemnification shall survive the Term of this Contract, and any holdover and/or Contract extensions thereto, whether such Term expires naturally by the passage of time or is terminated earlier pursuant to the provisions of this Contract.

1.7.3. INDEMNIFICATION

For ten dollars ($10.00) acknowledged to be included and paid for in the contract price and other good and valuable considerations, the Company shall hold harmless and indemnify JEA against any claim, action, loss, damage, injury, liability, cost and expense of whatsoever kind or nature (including, but not by way of limitation, reasonable attorney's fees and court costs) arising out of injury (whether mental or corporeal) to persons, including death, or damage to property, arising out of or incidental to the negligence, recklessness or intentional wrongful misconduct of the Company and any person or entity used by Company in the performance of this Contract or Work performed thereunder. For purposes of this Indemnification, the term "JEA" shall mean JEA as a body politic and corporate and shall include its governing board, officers, employees, agents, successors and assigns. This indemnification shall survive the term of a Contract entered into pursuant to this solicitation, for events that occurred during the Contract term. This indemnification shall be separate and apart from, and in addition to, any other indemnification provisions set forth elsewhere in this Contract.

1.7.4. TITLE AND RISK OF LOSS

Ownership, risks of damage to or loss of the Work shall pass to JEA upon Acceptance. The Company shall assume all risk of loss or damage to the Work while items are in transit and/or in the Company's custody until such time that JEA issues written notice of Acceptance.

JEA's receipt or delivery of any equipment or other materials will not constitute JEA's Acceptance of the Work and will not constitute a waiver by JEA of any right, claim or remedy. In the event of loss or damage to the Work, the Company shall bear all costs associated with any loss or damage until Acceptance by JEA.

For equipment and materials removed from JEA sites or the Work locations for repairs, service or duplication, JEA will retain the title to equipment and materials removed.

1.8. PAYMENT AND PERFORMANCE BOND

1.8.1. BOND AMOUNT

The Company shall furnish a Payment Bond and Performance Bond in the amount of indicated on the Bid Form, made out to JEA in forms and formats approved and provided by JEA, as security for the faithful performance of the Work of Contract. JEA will send the approved bond forms to the Company for execution along with the Contract, however, in no case shall the date on the bond forms be prior to that of the executed Contract. The surety must be authorized and licensed to transact business in Florida. A fully executed Payment Bond and Performance Bond must be recorded with the Clerk of Duval County Court and delivered to JEA before JEA will issue a Purchase Order to begin the Work. No Purchase Order shall be issued until the Payment and Performance Bonds are recorded and delivered to the JEA Procurement Department. If the Company fails or refuses to furnish or record the required bonds, JEA will retain the Company's Bid Bond as liquidated damages.

1.8.2. NOTIFICATION OF SURETY

The Company shall notify its surety of any changes affecting the general scope of the Work or altering the Contract Price. The amount of the applicable bonds shall be adjusted accordingly and the Company shall furnish proof of such adjustment to JEA within ten (10) days of date of Purchase Order.

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1.8.3. RIGHT TO AUDIT AND FINANCIAL REPORTING

Accounting System

The Company shall establish and maintain a reasonable accounting system that enables JEA to readily identify the Company's assets, expenses, cost of goods, and use of funds.

Audited Financial Statements

The Company shall provide to JEA audited financial statements for the most recent fiscal year upon JEA's request, not later than five days after receipt of written request.

Content and Retention of Records

Such records shall include, but not be limited to, accounting records, written policies and procedures; subcontract files (including proposals of successful and unsuccessful bidders, bid recaps, etc.); all paid vouchers including those for out-of-pocket expenses; other reimbursement supported by invoices; ledgers; cancelled checks; deposit slips; bank statements; journals; original estimates; estimating work sheets; contract amendments and change order files; back charge logs and supporting documentation; insurance documents; payroll documents; timesheets; memoranda; and correspondence. Company shall, at all times during the term of this Contract and for a period of five years after the completion of this Contract, maintain such records, together with such supporting or underlying documents and materials.

Inspection /Audit of Records

Upon JEA's request, the Company agrees to allow JEA to audit, to examine, and to make copies of or extracts from its financial and operating records (in whatever form they may be kept, whether written, electronic, or other) kept by the Company, its employees, agents, assigns, successors, and subcontractors, for the purpose of determining invoice accuracy, or otherwise assessing compliance with the Contract Documents.

The Company shall at any time requested by JEA, whether during or after completion of this Contract, and at Company's own expense make such records available for inspection and audit (including copies and extracts of records as required) by JEA. Such records shall be made available to JEA during normal business hours at the Company's office or place of business in a workspace suitable for the audit and subject to a three day written notice. In the event that no such location is available, then the financial records, together with the supporting or underlying documents and records, shall be made available for audit at a time and location that is convenient for JEA. The Company agrees to have knowledgeable personnel available to answer questions for the auditors during the time they are performing the audit and for a period of two weeks thereafter. Company shall ensure JEA has these rights with Company's employees, agents, assigns, successors, and subcontractors, and the obligations of these rights shall be explicitly included in any subcontracts or agreements formed between the Company and any subcontractors to the extent that those subcontracts or agreements relate to fulfillment of the Company's obligations to JEA.

Cost of Audits

Costs of any audits conducted under the authority of this right to audit and not addressed elsewhere will be borne by JEA unless certain exemption criteria are met. If the audit identifies overpricing or overcharges (of any nature) by the Company to JEA in excess of one-half of one percent (.5%) of the total contract billings, the Company shall reimburse JEA for the total costs of the audit. If the audit discovers substantive findings related to fraud, misrepresentation, or nonperformance, JEA may recoup the costs of the audit work from the Company.

Billing Adjustments and Recoveries

Any billing payment recoveries to JEA that must be made as a result of any such audit or inspection of the Company's invoices and/or records shall be made within a reasonable amount of time (not to exceed 90 days) from presentation of JEA's findings to Company.

Failure to Comply

If Company fails to comply with the requirements contained in this clause, the Company may be found to be in breach of the Contract, be subject to debarment or suspension of bidding privileges with JEA, and/or JEA may exercise any other remedies available by law.

1.9. ACCEPTANCE

1.9.1. DELAY IN ACCEPTANCE OR DELIVERY

JEA may delay delivery or acceptance of goods in the event of any unforeseen event. The Company shall hold the goods pending JEA's direction, and JEA will be liable only for direct increased costs incurred by the Company by reason of JEA's instructions.

1.9.2. ACCEPTANCE OF WORK - RECEIPT, INSPECTION, USAGE AND TESTING

The Contract Administrator will make the determination when Work is completed and there is Acceptance by JEA. Acceptance will be made by JEA only in writing, and after adequate time to ensure Work is performed in accordance with Contract Documents. JEA will reject any items delivered by Company that are not in accordance with the Contract, and shall not be

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deemed to have accepted any items until JEA has had reasonable time to inspect them following delivery or, if later, within a reasonable time after any latent defect in the items has become apparent. JEA may partially accept the Work items. If JEA elects to accept nonconforming items, it may in addition to other remedies, be entitled to deduct a reasonable amount from the price as compensation for the nonconformity. Any Acceptance by JEA, even if nonconditional, shall not be deemed a waiver, or settlement or acceptance of any Defect.

In addition. JEA will require a Certificate of Construction Completion prior to acceptance.

1.10. TERM AND TERMINATION

1.10.1. TERMINATION FOR CONVENIENCE

JEA shall have the absolute right to terminate the Contract in whole or part, with or without cause, at any time after the Award effective date upon written notification of such termination.
In the event of termination for convenience, JEA will pay the Company for all disbursements and expenses that the Company has incurred, or has become obligated prior to receiving JEA's notice of termination.
Upon receipt of such notice of termination, the Company shall stop the performance of the Work hereunder except as may be necessary to carry out such termination and take any other action toward termination of the Work that

JEA may reasonably request, including all reasonable efforts to provide for a prompt and efficient transition as directed by JEA.

JEA will have no liability to the Company for any cause whatsoever arising out of, or in connection with, termination including, but not limited to, lost profits, lost opportunities, resulting change in business condition, except as expressly stated within these Contract Documents.

1.10.2. TERM OF CONTRACT – PROJECT COMPLETION

The term of this Contract shall commence on the effective date and, and continue and remain in full force and effect as to all its terms, conditions and provisions as set forth herein through completion of all Work, Acceptance and final payment, including resolution of all disputes, claims, or suits, if any. Certain provisions of this Contract may extend past termination including, but not limited to, Warranty and Indemnification provisions. until project completion, or until the Contract's Maximum Indebtedness is reached, whichever occurs first. It is at JEA's sole option to renew the Contract.

It is at JEA's sole option to renew the Contract for an additional one year period.

This Contract, after the initial year shall be contingent upon the existence of lawfully appropriated funds for each subsequent year of the Contract.

1.10.3. TERMINATION FOR DEFAULT

JEA may give the Company written notice to discontinue all or part of the Work under the Contract or a Notice to Cure a material breach in the event that:

- The Company assigns or subcontracts the Work without prior written permission;
- Any petition is filed or any proceeding is commenced by or against the Company for relief under any bankruptcy or insolvency laws;
- A receiver is appointed for the Company's properties or the Company commits any act of insolvency (however evidenced);
- The Company makes an assignment for the benefit of creditors;
- The Company suspends the operation of a substantial portion of its business;
- The Company suspends the whole or any part of the Work to the extent that it impacts the Company's ability to meet the Work schedule, or the Company abandons the whole or any part of the Work;
- The Company, at any time, violates any of the conditions or provisions of the Contract Documents, or the Company fails to perform as specified in the Contract Documents, or the Company is not complying with the Contract Documents;
- The Company attempts to willfully impose upon JEA items or workmanship that are, in JEA's sole opinion, defective or of unacceptable quality;
- The Company breaches any of the representations or warranties;
- The Company is determined, in JEA's sole opinion, to have misrepresented the utilization of funds or misappropriate property belonging to JEA; or
- There is an adverse material change in the financial or business condition of the Company.

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If within thirty (30) days after service of such notice to discontinue or notice to cure upon the Company an arrangement satisfactory to JEA has not been made by the Company for continuance of the Work or the material breach has not been remedied, JEA may declare the Company to be in default and terminate the Contract.

Once Company is declared in default and the Contract has been terminated, JEA may notify the Surety in writing of the termination. The Surety shall, at JEA's sole option take one (1) of the following actions:

a. Within a reasonable time, but in no event later than thirty (30) days, from JEA's written notice of termination for default, arrange for Company with JEA's consent, which shall not be unreasonably withheld, to complete the Contract and the Surety shall pay JEA all losses, delay and disruption damages and all other damages, expenses, costs and statutory attorney's fees, including appellate proceedings, that JEA sustains because of a default by the Company under the Contract ;
b. Within a reasonable time, but in no event longer than sixty (60) days after JEA's written notice of termination for default, award a contract to a completion contractor and issue notice to proceed or alternatively, JEA may elect, to have the Surety determine jointly with JEA the lowest responsible qualified Proposer, to have the Surety arrange for a contract between such Proposer and JEA, and for the Surety to make available as Work progresses sufficient funds to pay the cost of completion less the balance of the Contract price; or
c. Within a reasonable time, but in no event later than thirty (30) days from JEA's notice of termination for default, JEA may waive its right to complete or arrange for completion of the Contract and, within twenty-one (21) days thereafter, determine the amount for which the Surety may be liable to JEA and tender payment to JEA of any amount necessary in order for JEA to complete performance of the Contract in accordance with its terms and conditions less the balance of the Contract price.

JEA shall have the right to take possession of and use any of the materials, plant, tools, equipment, supplies and property of any kind provided by the Company for the purpose of this Work.

JEA will charge the expense of completing the Work to the Company and will deduct such expenses from monies due, or which at any time thereafter may become due, to the Company. If such expenses are more than the sum that would otherwise have been payable under the Contract, then the Company or Surety shall pay the amount of such excess to JEA upon notice of the expenses from JEA. JEA shall not be required to obtain the lowest price for completing the Work under the Contract, but may make such expenditures that, in its sole judgment, shall best accomplish such completion. JEA will, however, make reasonable efforts to mitigate the excess costs of completing the Work.

The Contract Documents shall in no way limit JEA's right to all remedies for nonperformance provided under law or in equity, except as specifically set forth herein. In the event of termination for nonperformance, the Company shall immediately surrender all Work records to JEA. In such a case, JEA may set off any money owed to the Company against any liabilities resulting from the Company's nonperformance.

JEA has no responsibility whatsoever to issue notices of any kind, including but not limited to deficient performance letters and scorecards, to the Company regarding its performance prior to default by Company for performance related issues.

JEA shall have no liability to the Company for termination costs arising out of the Contract, or any of the Company's subcontracts, as a result of termination for default.

Immediately upon termination or expiration of this Agreement, Company must return to JEA all materials, documents and things used by Company and belonging to JEA, including proposals, computer files, borrower files, building keys, and any other property or information regarding continued business compliance or goodwill, whether in electronic or hard-copy form. Furthermore, upon JEA's request, Company shall certify in writing that all of the foregoing documents or materials, including archival or backup copies, whether in electronic of hard-copy form, have been returned to JEA, deleted from any computer system, or otherwise destroyed.

Any other provision in this Agreement to the contrary notwithstanding the duration of this Agreement after the initial year, shall be contingent upon the existence of lawfully appropriated funds for each subsequent year of the term.

1.10.4. UNAUTHORIZED WORK

JEA will consider any Work done without lines and grades given, Work done beyond the lines and grades shown on the Contract or as given, or any extra Work done without written authority, as unauthorized Work and will not pay the Company for such Work. If so ordered by the Contract Administrator, the Company shall remove such Work and properly replace it at the

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Company's own expense.

1.11. CHANGES IN THE WORK, CONTRACT TIME OR PRICE

1.11.1. AMENDMENTS

This Contract may not be altered or amended except in writing, signed by JEA Chief Procurement Officer, or designee, and the Company Representative, or each of their duly authorized representatives.

1.11.2. QUANTITIES

Where the total Bid Price was based on estimated quantities, prior to making final payment, JEA will determine actual quantities using sampling, surveying and other industry recognized means and prepare a Change Order adjusting the Contract Price to reflect actual volumes.

The Company shall immediately notify the JEA Contract Administrator in writing of any unauthorized change in the scope of the Work or significant change in the quantities of the Work that may increase the Contract Price, require an extension of Work schedule, or negatively impact permitting or other regulatory requirements.

1.11.3. SHOP DRAWINGS

The Company shall promptly submit all required Shop Drawings in accordance with the provisions provided herein. JEA will not grant an extension of Contract Time due to the Company's failure to submit Shop Drawings in ample time to allow for checking, revisions, reviews, and approval.

A letter of transmittal and four copies of each shop drawing shall accompany each submittal. Shop drawings shall be forwarded to the JEA Engineer. Each drawing shall be listed separately on the letter. The Company shall also note distinctively on the transmittal letter any deviations that the Shop Drawings may have from the requirements of the Contract Documents.

The JEA Engineer's approval of Shop Drawings shall not be construed as a complete check, nor shall it relieve the Company from responsibility for any deficiency that may exist, or from any departures or deviations from the requirements of the Contract unless the Company has, in writing, called the JEA Engineer's attention to such deviations at the time of submission and obtained written approval for the deviation. The JEA Engineer's approval shall not relieve the Company from the responsibility for errors of any sort in Shop Drawings or schedules, nor from responsibility for proper fitting of the Work, nor from the necessity of furnishing any Work, materials, equipment or tools, required by the Contract Documents that may not be indicated on Shop Drawings when approved. The Company shall be solely responsible for all quantities and dimensions shown on the Shop Drawings. The Company shall not execute any Work until the JEA Engineer approves the Shop Drawings and a copy stamped "Approved" is at the Work Location. The Company shall, at no extra cost to JEA, make all changes and alterations whatsoever in Work performed or in subcontracts or orders placed prior to the approval of any and all Shop Drawings.

The Company shall allow a minimum of 14 days for the review of Shop Drawings. This shall be the period for new Shop Drawings and Shop Drawings that are revised and resubmitted.

As used herein, the term "manufactured" applies to standard units usually mass produced, and "fabricated" means items specifically assembled or made out of selected materials to meet individual design requirements. Shop drawings shall establish the actual details of all manufactured or fabricated items; indicate proper relation to adjoining Work; amplify design details of mechanical and electrical equipment in proper relation to physical spaces in the structure; and incorporate minor changes of design or construction to suit actual conditions.

Shop drawings shall be complete in every detail, properly identified with the Contract name, Contract and subsection number for identification of each item, and state the qualifications, departures or deviations from the Contract, if any. Shop drawings for each section of the Work shall be numbered consecutively and the numbering system shall be retained throughout all revisions. Each drawing shall have a clear space above the title block in the lower right-hand corner for the approval stamps of the Company and the JEA Engineer.

If the materials are not listed in JEA's Approved Materials Manual, then prior to purchase of material or fabrication, the Company shall forward to the JEA Engineer for review, five sets of each shop drawing plus the number of prints it desires returned.

In checking the Shop Drawings, the Company shall verify all dimensions and field conditions and shall check and coordinate the Shop Drawings of any section or trade with the requirements of all other sections or trades whose Work is related thereto, as required for proper and complete installation of the Work. All rough-in and connections for utilities shall conform to approved equipment Shop Drawings.

The JEA Engineer will review the Shop Drawings and will return them to the Company stamped to indicate the action taken. The stamp will indicate that the shop drawing is "Approved", "Approved as Noted", "Returned for Correction", or "Disapproved".

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Only those Shop Drawings stamped "Returned for Correction" or "Disapproved" shall be resubmitted for subsequent review. Resubmittals shall be in the same form and number of copies as original submittals, with notation indicating a revised submittal. The Shop Drawings stamped "Approved" or "Approved as Noted" will be returned to the Company, who will be responsible for obtaining prints thereof and distributing them to the field and Subcontractors.

At the same time the JEA Engineer returns a reviewed submittal to the Company, it will forward two copies of each item stamped "Approved" or "Approved as Noted" together with any conditions of approval, to JEA for field and office use. The JEA Engineer may revoke approval of Shop Drawings, should field conditions so dictate.

1.11.4. USE OF THE SUPPLEMENTAL WORK AUTHORIZATION (SWA)

The JEA Representative will issue a written SWA to incorporate cost or schedule changes into the Contract. Issuance of an SWA is solely at the discretion of the JEA Representative. The SWA shall be used for increases or decreases in the Contract price, within the SWA amount set forth in the Bid, or to make changes in schedule for performance of the Work. An SWA shall authorize the Company to perform changes in the Work. The Company shall not start on SWA work until the Company receives a fully authorized, written SWA form, signed by the appropriate JEA personnel - the Company shall not consider verbal statements as authorization to proceed with the changes. The Company should not expect that any SWAs will be issued. JEA shall have no obligation to pay for SWA work unless the same is performed pursuant to a written SWA form signed before the SWA work is commenced.

1.11.5. WHEN SWA EFFECTIVE

The Company shall not start on SWA work until the Company receives a fully authorized, written SWA form, signed by the appropriate JEA personnel. The Company shall not consider verbal statements as authorization to proceed with the changes. An SWA shall authorize the Company to perform changes in the Work. JEA shall have no obligation to pay for SWA work unless the same is performed pursuant to a written SWA form signed before the SWA work is commenced.

In determining costs for Work associated with any Change Order or an SWA, the following methods may be used:

1. Agreed Upon Lump Sum Method

    a. The Company and the JEA Representative shall mutually agree to the pricing of a change order or an SWA. Any negotiated increase or decrease in the Contract Price shall be based on the Company's costs for labor, materials and supplies directly applicable to the increase or decrease plus 10% thereof for Company's supervision, overhead, bonds and profit. For any negotiated increase or decrease, the Company will provide a complete detailed breakdown for all labor, material, and equipment, etc. associated with the change. The detailed breakdown shall include applicable labor rates for all trades used, equipment rates, labor and equipment hours. A lump sum figure submitted with no breakdown will be returned to the Company without review.

    b. Where the work is covered by established Unit Prices contained in the Contract, and JEA agrees that the Unit Price in the Contract is a fair and reasonable price, the Unit Price will be applied to the quantity of work. In the event that JEA does not agree that the Unit Price in the Contract is a fair and reasonable price, a negotiated price will be applied to the quantity of work at the discretion of the JEA.

2. Cost Reimbursable (Time and Materials) Method

    a. Whenever the Company and the JEA are unable to agree on costs for an increase in the Work, JEA or JEA Representative shall order the Company to proceed with the Work on a cost reimbursable (time and material) basis. JEA will pay the Company for the SWA work in the manner hereinafter described, and the compensation thus provided shall constitute full payment for said work. JEA shall issue the SWA for the Company to perform the specific work with payment determined as follows:

    b. For materials purchased by the Company and used in the work, the Company shall be paid the actual cost of such materials, including sales taxes if required, and freight and delivery charges as shown by original receipted bills. A mark-up amount equal to 10% of the sum thereof shall be added to this cost. JEA reserves the right to select and approve, or to reject the materials to be used and the sources of supply of any materials furnished by the Company.

    c. The Company will be paid the cost of wages for all labor that is engaged in the Work, plus the actual cost chargeable to the Work for workers compensation insurance, social security taxes, unemployment compensation insurance and such additional amounts as are paid by the Company. A total mark-up shall be added equal to 10% of wages and other cost listed above. In evidence of the costs of labor the Company shall provide a certified statement of wages actually paid, together with copies of supporting payrolls. Wage rates used in determining the amount of the payment will be the actual wage rates paid by the Company for Work under this Contract, except that no rate used shall exceed the rate of comparable labor currently employed on the project.

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d. Payment for the services of foremen in direct charge of the specific operation will be made. Payment for the service of superintendents, timekeepers or other overhead personnel will not be made nor will payment for the services of watchmen be made unless required specifically by the SWA Work. The actual function performed by an employee rather than its payroll title will be the criterion used in determining the eligibility of an employee's services for payment under this provision.

e. The types and amounts of equipment and machinery used by the Company in carrying out its work under the SWA shall be made in keeping with normal practice for work of similar nature. JEA may, at its discretion, limit by specific instruction the types and amounts of equipment and machinery to be used. For all equipment and machinery used in the SWA work, JEA will pay the lowest of the following options to which no mark-up percentages will be added (note that these options apply to rented or contractor owned equipment):

- 80% of the rental value as set forth in the Blue Book value, or
- Actual cost, or
- Current local equipment rental company quote as produced by JEA.
- In computing the hourly rental of such equipment, the following applies:
  - The lowest calculated hourly equipment rental rate shall be used based on the duration that the equipment is at the site and/or the actual cost the Company is paying. For example, if the equipment used has been on the project for more than one month, then the hourly rate used shall be derived/calculated from the monthly equipment rate.
  - Less than 30 minutes shall be considered 1/2 hour except when the minimum rental time to be paid is one hour.
  - Rental time will not be allowed while equipment is inoperative due to breakdowns. The rental time of equipment to be paid for shall be the time the equipment is in operation on the SWA work being performed. The Company shall be reimbursed for the time required to move the equipment to the Work, and return it to its original location, only if the Company is charged this cost by the renting agency. Excess rental time of equipment due to inefficient work practices will not be reimbursed. Actual costs must be supported by invoices or other similar documentation provided by the Company.

f. No payment will be allowed for the use of small tools and minor items of equipment, which, as used herein, are defined as individual tools or pieces of equipment having a replacement value of $500.00 or less.

g. The Company and JEA Representative shall compare records of the Work performed on a Cost Reimbursable basis at the end of each day. These records shall be prepared by the Company and shall be signed by both JEA and the Company Representative. A copy of these records shall be submitted to JEA with the invoice for the work.

h. Payment for cost reimbursable SWA work will be included in monthly progress payments.

i. The Company's Subcontractors will be allowed a 10% mark-up on Work performed by their own forces. The Company will be allowed a 5% mark-up on the Subcontractor's costs (i.e. labor and materials) only, no mark-up on the Subcontractor's profit.

j. Subcontractor's costs in excess of fifty thousand dollars ($50,000) shall be justified for competitiveness through the submission of at least 3 bids or proposals for the work, or other cost justification satisfactory to JEA.

1.11.6. CHANGES IN THE WORK

Changes in the Work, including changes to scope, quantities, price, schedule or completion date, may be authorized through Supplemental Work Authorizations or through a Change Order.

1.11.7. CHANGES TO WORK SCHEDULE OR TIME

The Work schedule and/or contract time may be changed by a Change Order, Purchase Order or SWA. The Company's request or claim for a Work schedule and/or contract time adjustment shall be in writing delivered to the Contract Administrator within ten (10) working days following the discovery of the event that prompted the claim or the date when the event should have been discovered. Where accepted by JEA, changes to Work schedule will only adjust for critical path impacts. Failure to include the

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necessary critical path analysis with the request shall be grounds for rejecting the claim. The critical path as used in this Section means the series of interdependent Work events that must be sequentially performed and that require a longer total time to perform than any other such series. Upon receipt of the Company's request for a change in the Work schedule, the Contract Administrator will provide any additional directions in writing detailing the procedures that will be used to resolve the request, including provision of time impact or manpower and equipment loading schedules. Where JEA and the Company are unable to reach a mutually acceptable resolution of request, JEA will make a commercially reasonable determination, made in accordance with JEA's Procurement Code, which shall be final.

1.11.8. INITIATION OF A CHANGE BY COMPANY

To request any change in the Work including, but not limited to, changes in scope, quantities, price, or schedule, the Company shall submit a written request in the form of a Request for Information ("RFI") to the JEA Representative within ten (10) working days of the date that the event that prompted the change was discovered or should have been discovered. The RFI shall contain sufficient information regarding the nature of the requested change, including an itemized estimate of cost, either positive or negative, in relation to the change, and any effect on contract time which is related to the changed condition, and work descriptions and other information necessary to evaluate the merits of the change. The JEA Representative may reject RFI's which do not provide sufficient supporting information. Upon receipt of the Company's RFI, the JEA Representative will provide written direction as to the procedures that will be used to address the request. JEA shall have the right to approve or disapprove any RFI, request or claim for change as it deems necessary and in its best interests consistent with the other Contract requirements. Where JEA and the Company are unable to reach a mutually acceptable resolution for the RFI, JEA will make a commercially reasonable determination, made in accordance with JEA's Procurement Code, which shall be final.

1.11.9. INITIATION OF A CHANGE BY JEA

When it is in JEA's best interest, the JEA Representative may request that the Company provide pricing information to accommodate a requested change in the Work, including a change to the scope of Work, quantity, schedule or completion date. Upon the written request by JEA, the Company shall submit a cost estimate, including all pricing elements requested by JEA. The Company shall not proceed with any changes to the Work until such change is authorized in writing.

1.11.10. EFFECTIVENESS OF CHANGE ORDER

Any change in the Contract resulting from the RFI will be incorporated into the Contract through the use of a Change Order, Supplemental Work Authorization or Purchase Order. Whether requested by the Company, claimed by the Company, or contemplated by JEA, no change shall be authorized and effective unless made through an approved Supplemental Work Authorization (SWA) or on a JEA Change Order signed by the Contract Administrator or through a formal written amendment to this Contract. All Work defined on Change Orders shall be subject to the conditions of the Contract, unless specifically noted on the Change Order.

1.11.11. CHANGE IN THE WORK

From time to time, JEA may direct changes and modifications in the scope of the Work to be performed under this Contract. The Company is willing and agreeable to accommodate such changes, provided it is compensated for additional Work in accordance with the Unit Prices terms stated in this Contract, or as otherwise agreed to by JEA and the Company.

Such changes shall be in the form of a written amendment to this Contract reflecting, as appropriate, the change to the scope of Work, adjustment to Company's Unit Prices or Contract Price, or extension to the Term of this Contract. The JEA Representative directly responsible for each project will make the final determination as to whether any compensable change or schedule change exists.

1.11.12. FORCE MAJEURE

No party shall be liable for any default or delay in the performance of its obligations under this Contract due to an act of God or other event to the extent that: (a) the non-performing party is without fault in causing such default or delay; (b) such default or delay could not have been prevented by reasonable precautions; and (c) such default or delay could not have been reasonably circumvented by the non-performing party through the use of alternate sources, work-around plans or other means. Such causes include, but are not limited to: act of civil or military authority (including but not limited to courts or administrative agencies); acts of God; war; terrorist attacks; riot; insurrection; inability of JEA to secure approval, validation or sale of bonds; inability of JEA or the Company to obtain any required permits, licenses or zoning; blockades; embargoes; sabotage; epidemics; fires; hurricanes, tornados, floods; or strikes.

In the event of any delay resulting from such causes, the time for performance of each of the parties hereunder (including the payment of monies if such event actually prevents payment) shall be extended for a period of time reasonably necessary to overcome the effect of such delay, except as provided for elsewhere in the Contract Documents.

In the event of any delay or nonperformance resulting from such causes, the party affected shall promptly notify the other

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in writing of the nature, cause, date of commencement and the anticipated impact of such delay or nonperformance. Such written notice, including Change Orders, shall indicate the extent, if any, to which it is anticipated that any delivery or completion dates will be thereby affected within seven (7) calendar days.

1.11.13. UNFORESEEN CONDITIONS

The Company understands and agrees that it is its responsibility to conduct due diligence prior to the Work. Such due diligence includes, but is not limited to, verifying all Work conditions, measurements, dimensions and latent and patent obstructions, the accuracy of drawings, test results, inspections and other informational materials provided in the Contract Documents, and any other causes for existing or potential changes to the Work prior to initiating the Work. In the event that the Work must be changed due to the Company's failure to fulfill the above requirements, the Company understands and agrees that it will be responsible for all costs associated with the changed condition.

In the event, however, that the Company exercises the requisite due diligence and a change to the Work becomes necessary resulting from conditions that are clearly unforeseen and that could not have been discovered, the costs for adjusting the Work in response to such unforeseen conditions shall be addressed in a Change Order or an amendment to the Contract executed by JEA and Company. Any Work the Company performs prior to receipt of such Change Order or approved Contract amendment will be at the Company's sole risk.

1.11.14. NO DAMAGE FOR DELAY

Damage, loss, expense or delay incurred or experienced by the Company in the prosecution of the Work by reason of unforeseen circumstances, unanticipated difficulties and obstructions, bad weather, or other mischances that are generally considered to be a part of the usual hazards associated with Work, shall be borne entirely by the Company and shall not be the subject of any claim for additional compensation or change in Approved Schedule.

The Company agrees that its sole remedy for any claims, damages or losses related to any delay, disruption or hindrance alleged to be caused by JEA or any of JEA's agents or other contractors, shall be an extension of the Contract completion date.

Any demand for equitable time adjustment must be served in writing to JEA within five days of the event giving rise to the delay, disruption or hindrance. Any request for an equitable time adjustment shall be accompanied by a logical time impact analysis, demonstrating the nature and magnitude of the event to the critical path.

Failure to strictly comply with these requirements shall be deemed a waiver of any right to seek equitable time adjustment.

In the event the "no damage for delay" clause is inapplicable, there shall be no recovery for home office overhead and any damages claimed shall be proven by discreet accounting of direct project costs and no theoretical formula or industry estimating reference manuals shall be permissible.

1.12. CONFIDENTIALITY AND OWNERSHIP OF DOCUMENTATION

1.12.1. CONFIDENTIALITY & PUBLIC RECORDS LAWS

Access to Public Records

All Documents, data and other records received by JEA in connection with the Contract are public records and available for public inspection unless specifically exempt by law. The Company shall allow public access to all documents, data and other records made or received by the Company in connection with the Contract unless the records are exempt from Section 249(a) of Article I of the Florida Constitution or subsection 119.07(1), Florida Statutes. JEA may unilaterally terminate the Contract of the Company refuses to allow public access as required under the Contract.

Redacted copies of Confidential Information

If the Company believes that any portion of any documents, data or other records submitted to JEA are exempt from disclosure under Chapter 119, Florida Statutes, the Florida Constitution and related laws ("Florida's Public Records Laws"), Company must (1) clearly segregate and mark the specific sections of the document, data and records as "Confidential", (2) cite the specific Florida Statute or other legal authority for the asserted exemption, and (3) provide JEA with a separate redacted copy of the documents, data, or records (the "Redacted Copy"). The Redacted Copy shall contain JEA's contract name and number, and shall be clearly titled "Redacted Copy". Proposer should only redact those portions of records that Proposer claims are specifically exempt from disclosure under Florida's Public Records Laws. If the Company fails to submit a redacted copy of documents, data, or other records it claims
is confidential, JEA is authorized to produce all documents, data, and other records submitted to JEA in answer to a public

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records request for these records.

Request for Redacted Information

In the event of a public records or other disclosure request under Florida's Public Records Laws or other authority to which the Company's documents, data or records are responsive, JEA will provide the Redacted Copy to the requestor. If a Requestor asserts a right to any redacted information, JEA will notify the Company that such an assertion has been made. It is the Company's responsibility to respond to the requestor to assert that the information in questions is exempt from disclosure under applicable law. If JEA becomes subject to a demand for discovery or disclosure of the redacted information under legal process, JEA shall give the Company prompt notice of the demand prior to releasing the redacted information (unless otherwise prohibited by applicable law). The Company shall be responsible for defending it determination that the redacted portions of the information are not subject to disclosure.

Indemnification for Redacted Information

The Company shall protect, defend, and indemnify JEA from and against all claims, demands, actions, suits, damages, liabilities, losses, settlements, judgments, costs, and expenses (including but not limited to reasonable attorney's fees and costs) arising from or relating to the Company's assertion that all or any portion of its information is not subject to disclosure.

Public Records Clause for Service Contracts

If, under the Contract, the Company is providing services and is acting on behalf of JEA as contemplated by subsection 119.011(2), Florida Statutes, the Company shall:

- Keep and maintain public records that ordinarily and necessarily would be required by JEA in order to perform service;
- Provide the public with access to public records on the same terms and conditions that JEA would provide the records and at a cost that does not exceed the cost provided in Chapter 119, Florida Statues, or otherwise prohibited by law;
- Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law; and
- Meet all requirements for retaining public records and transfer, at no cost, to JEA all public records in possession of the Company upon termination of the contract and destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. All records stored electronically shall be provided to JEA in a format that is compatible with the information technology systems of JEA.

1.12.2. PROPRIETARY INFORMATION

The Company shall not copy, reproduce, or disclose to third parties, except in connection with the Work, any information that JEA furnishes to the Company. The Company shall insert in any subcontract a restriction on the use of all information furnished by JEA. The Company shall not use this information on another project. All information furnished by JEA will be returned to JEA upon completion of the Work.

1.12.3. PUBLICITY AND ADVERTISING

The Company shall not take any photographs, make any announcements or release any information concerning the Contract or the Work to any member of the public, press or official body unless prior written consent is obtained from JEA.

1.13. PRELIMINARY MATTERS

1.13.1. LICENSES

The Company shall comply with all licensing, registration and/or certification requirements pursuant to applicable laws, rules and regulations. The Company shall secure all licenses, registrations and certifications as required for the performance of the Work and shall pay all fees associated with securing them. The Company shall produce written evidence of licenses and other certifications immediately upon request from JEA.

1.14. LABOR

1.14.1. NONDISCRIMINATION

The Company represents that it has adopted and will maintain a policy of nondiscrimination against employees or applicants for employment on account of race, religion, sex, color, national origin, age or handicap, in all areas of employee relations, throughout the Term of this Contract. The Company agrees that on written request, it will allow JEA reasonable access to the Company's records of employment, employment advertisement, application forms and other pertinent data and records for the purpose of investigation to ascertain compliance with the nondiscrimination provisions of this Contract; provided however, the Company shall not be required to produce, for inspection, records covering periods of time more than one year

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from the effective date of this Contract.

The Company shall comply with the following executive orders, acts, and all rules and regulations implementing said orders or acts, which are by this reference incorporated herein as if set out in their entirety:

- The provisions of Presidential Order 11246, as amended, and the portions of Executive Orders 11701 and 11758 as applicable to Equal Employment Opportunity;
- The provisions of section 503 of the Rehabilitation Act of 1973, as amended, and the Americans with Disabilities Act (ADA); and
- The provisions of the Employment and Training of Veterans Act, 38 U.S.C. 4212 (formerly 2012).

The Company agrees that if any of the Work of this Contract will be performed by a Subcontractor, then the provisions of this subsection shall be incorporated into and become a part of the subcontract.

1.14.2. LEGAL WORKFORCE

JEA shall consider the Company's employment of unauthorized aliens a violation of section 274A(e) of the Immigration and Nationalization Act. Such violation shall be cause for termination of the Contract for default upon thirty (30) days' prior written notice of such termination, notwithstanding any other provisions to the contrary in the Contract Documents.

1.14.3. PROHIBITED FUTURE EMPLOYMENT

It shall be unlawful and a class C offense for any person, who was an officer or employee of JEA, after his or her employment has ceased, to be employed by or enter into any contract for personal services, with a person or company who contracted with, or had a contractual relationship with JEA, while the contract is active or being completed, or within two years of the cessation, completion, or termination of the person's or company's contractual relationship with JEA, where (1) the contract with JEA had a value that exceeded $250,000, and (2) the officer or employee had a substantial and decision-making role in securing or negotiating the contract or contractual relationship, or in the approval of financial submissions or draws in accordance with the terms of the contract; except that this prohibition shall not apply to an employee whose role is merely as a review signatory, or to contracts entered into prior to January 1, 2008, or to contracts that have been competitively procured. With respect to this subsection a contract is competitively procured if it has been obtained through a sealed low Bid award. A "substantial and decision-making role" shall include duties and/or responsibilities that are collectively associated with: (i) approving solicitation or payment documents; (ii) evaluating formal Bids and proposals; and (iii) approving and/or issuing award recommendations for JEA Awards Committee approval. The contract of any person or business entity who hires or contracts for services with any officer or employee prohibited from entering into said relationship shall be voidable at the pleasure of JEA. This prohibition shall not apply to any former officer or employee after two years from cessation from JEA employment.

1.14.4. HIRING OF OTHER PARTY'S EMPLOYEES

Each party recognizes that the other party has incurred or will incur significant expenses in training its own employees and agrees that it will not pursue or hire, without the other party's consent, the other party's employees or the employees of its subsidiaries for a period of two (2) years from the termination date of this Contract.

1.15. COMPANY'S RESPONSIBILITIES AND PERFORMANCE OF THE CONTRACT

1.15.1. TEMPORARY CLOSURE OF ROADWAYS

The Company shall not close or obstruct any portion of a street, road, or private way without first obtaining permits. If any street or private way is rendered unsafe by the Company's operations, the Company shall make such repairs or provide such temporary ways and guards necessary for the protection and safety of persons on the Work and the public and for the orderly maintenance of traffic. All costs associated with temporary closure of roadways shall be included in Bid Price.

The Company shall notify the police and fire departments in writing if it will be necessary to close a street. The Company shall copy JEA on all correspondence relating to street closure. The Company shall notify the police and fire departments prior to closure of the street. The Company shall be responsible for maintaining proper coordination with the proper authorities.

Temporary closure of business entrances must be approved in writing by and coordinated with JEA.

1.15.2. TEMPORARY UTILITIES

The Company shall furnish and install all temporary water, electricity and other utilities required to accomplish the Work. The Company shall obtain the water required for carrying out the Work from fire hydrants, existing water main connections, or new connections approved by JEA. The Company shall install a back flow preventer and water meter assembly if construction water is necessary. Upon Substantial Completion of Work, the Company shall remove all evidence of temporary connections and lines.

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Prior to initiating any construction Work, the Company shall coordinate and schedule the provision of temporary utility service required during construction and arrange for the permanent installation and connection of utilities for the completed Work.

1.15.3. WORK LOCATION

Work shall be performed at the following location(s): along Lauder Ave, Carbondale Dr. West, Carbondale Dr. North and Evans as detailed in Appendix A - Technical Specifications.

1.15.4. COMMERCIAL ACTIVITIES ON THE WORK LOCATION

The Company shall not establish any commercial activities, or issue concessions or permits of any kind to third parties to establish commercial activities on lands owned or controlled by JEA, or within the boundaries of the Work Location. The Company shall not allow its employees to engage in any commercial activities on the Work Location.

1.15.5. COMPLETION OF WORK

The Company shall begin Work within ten (10) days after the date of written Notice to Proceed from JEA to begin Work, and shall complete the Work by the date set forth in the Contract Documents. The Company further understands and agrees that time is of essence and should the Company fail to complete the Work on or before the date established for Substantial Completion and Final Acceptance, the Company shall be solely responsible for additional costs as defined in the Contract.

1.15.6. COMPANY LAYDOWN AREA

In the event the Company decides to utilize public or private property as a laydown area, the Company shall enter into a written agreement with the entity who owns the property. JEA shall have access to all laydown areas. Upon submission of Company's first Invoice or application for payment to JEA, the Company shall provide to JEA a copy of such signed written agreement. The Company shall submit to JEA a letter of release from the entity in connection with Company's final Invoice or application for payment to JEA.

1.15.7. COMPANY REPRESENTATIVE

The Company shall provide JEA with the name and responsibilities of the Company Representative, in writing after Award of the Contract and before starting the Work under the Contract. Should the Company need to change the Company Representative, the Company shall promptly notify JEA in writing of the change.

1.15.8. COMPANY'S DOCUMENTS AT THE WORK LOCATION

The Company shall maintain at the Work Location for JEA one record copy of all Contract Documents in good order and marked currently to record all Addenda and changes made during Contract Term. These shall be available to JEA Representatives and shall be delivered to the Contract Administrator upon completion of the Work and at the request of the Contract Administrator.

The Company shall also maintain detailed records of the Work for its own files. The Company shall make these records available to JEA for inspection upon request. The Company shall maintain such records for three years after date of Final Completion.

1.15.9. COMPANY'S FIELD OFFICE

The Company shall provide its own office facilities at the Work Location, as required. Unless specifically listed herein, JEA provides no Work Location facilities or Work Location area for the Company facilities of any kind such as field office and material storage. If the Company establishes a Work Location-based office, the Company shall provide and maintain adequate telephone facilities at this office during the full Term of the Contract. If the Company has a local business office, this office may serve as a Work Location office for this Contract, but the Company must maintain an operational cellular phone at the Work Location while performing Work.

1.15.10. LIMITATION OF ACCURACY OF INFORMATIONAL MATERIALS

For all drawings, test results, inspections, and other informational materials included as part of the Contract Documents, the Company understands and agrees that any existing facilities shown, including underground, overhead, and surface structures, and other delineations, and any other informational items provided as part of the Contract Documents are for reference only and are not to be used by the Company as the only indication of Work conditions. The Company understands and agrees that it is its sole responsibility to verify all Work conditions, measurements, dimensions, obstructions and other causes for existing or potential changes to the Work prior to initiating Work. In the event the Work must be changed due to the Company not fulfilling the above requirements, the Company understands and agrees that it will be responsible for all costs associated with the changed condition. Changes associated with conditions that are clearly unforeseen and that could not have been discovered by a reasonable verification of the above listed items, shall be covered as stated in Changes to Work.

1.15.11. PERMITS TO BE OBTAINED BY THE CONTRACTOR

Unless otherwise specified in the Contract Documents, the Contractor shall secure, maintain, post as required, and pay for all

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building, plumbing, electrical, water, sewer, right-of-way, parking, roadway, railroad, shipping, freight, hazardous materials, dewatering, and any other permits which may be required for performance of the Work in full compliance with all applicable laws, rules and regulations. The Contractor shall perform all actions necessary to identify where permits are to be obtained and properly file for the permits, except those specifically listed in the Contract Documents as being provided by JEA.

The Contractor shall comply with all conditions of permits issued for the Work, either directly or indirectly, issued by federal, state, or local governmental agencies, which are hereby incorporated as part of these Contract Documents. The Contractor shall be solely responsible for resolving any issues and bearing all expenses including any damages suffered by JEA that result from a finding of noncompliance during performance of the Work by any of the respective regulatory agencies including, but not limited to, all costs for delays, litigation, fines, fees of any kind, and other costs.

1.15.12. PRE-WORK MEETING AND PROGRESS MEETINGS (CONSTRUCTION)

Before starting the Field Work, a Pre-Work or Pre-Construction meeting may be held to review procedures for the Work, review the Work schedule, establish procedures for invoicing, approving Invoices and making payments, and establish a working relationship between JEA and the Company.

The JEA Contract Administrator may, at his or her discretion, request Pre-Work Meetings to be held prior to start of any Field Work. Such meeting(s) shall be attended by, but not limited to, the Company Representative and Company Supervisor. The JEA Contract Administrator will notify the Company in writing of the meeting time and location at least two (2) days prior to the meeting date. In addition, construction progress meetings will be held at a frequency as determined by JEA. Such meeting(s) shall be attended by, but not limited to, the Company's Representative and Company's Supervisor.

1.15.13. MAINTENANCE OF TRAFFIC

The Company, when required by the governing agency such as the City of Jacksonville or the Florida Department of Transportation (FDOT), shall maintain traffic in accordance with an approved Maintenance of Traffic (MOT) plan ("MOT Plan") submitted by the Company, on streets, roads, private ways, and walks. The Company shall assume full responsibility for the adequacy and safety of provisions made. The Company shall be solely responsible for the placement, maintenance and removal of the minimum number of devices required by the MOT Plan, or specified by the FDOT, for the control of traffic at the Work Location including, but not limited to signs, cones, lights, barricades, concrete barrier walls, police officers, flaggers, etc. ("MOT Items").

Company shall be responsible for all costs associated with MOT. There will not be a separate line item for MOT on the Bid Form.

1.15.14. COMPANY REPRESENTATIVES

The Company shall provide JEA with the name and responsibilities of the Company Representative, in writing after Award of the Contract and before starting the Work under the Contract. Should the Company need to change the Company Representative, the Company shall promptly notify JEA in writing of the change.

1.15.15. CPM SCHEDULE REQUIREMENTS

The Contractor shall use the Critical Path Method (CPM) to schedule and manage the Work. A qualified member of the Contractor's personnel shall create the schedule. If the Contractor does not have staff capable of preparing and managing CPM schedules, the Contractor shall obtain such qualified personnel on a subcontract basis for supporting this Contract.

All CPM scheduling will be performed using CPM precedence diagramming method (PDM) scheduling software such as Primavera P6, Primavera Contractor or a CPM scheduling software compatible with Primavera P6 import capabilities (.xer file format). The Contractor shall submit all schedules and associated reports to the Contract Administrator in paper and electronic formats as described below in order to allow both complete analysis of the schedules and accurate record keeping.

Construction contracts less than $10 million will have a cost-loaded schedule. Construction contracts equal to or more than $10 million will be cost and resource loaded.

Project Schedule Definitions

Activity - A single, continuous, and identifiable task in the total Work. The project work scope is sub-divided into work tasks that are represented in the schedule software as activities. How finely the project scope is subdivided into tasks determines the "level of detail" within the schedule. JEA retains the right to reject a schedule for insufficient levels of activity detail.

Baseline Schedule - The Baseline Schedule comprises the plan and schedule that the Contractor intends to use to perform and complete the Work. Upon approval by the JEA Representative, the Baseline Schedule shall be the schedule of record from which entitlement for adjustments in the completion deadline(s) shall be measured until a Revised Baseline Schedule is approved by the JEA Representative.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

Contract Float - Contract Float is the number of days between the Contractor's anticipated date for early completion of the Work, or specified part, and the corresponding Contract Time.

Contract Milestone - A Contract Milestone is a Milestone required in every project schedule to identify significant Contract events. Required Contract Milestones include Notice to Proceed (NTP), Substantial Completion (SC) and Final Completion (FC).

CPM Network - The CPM Network is a transferable electronic copy of project software data and files. It includes, but is not limited to, activities, milestones, calendar definitions, precedence relationships including any relationship lag periods, date constraints, baseline schedules, project and activity code definitions, resource definitions, resource assignments, project values (e.g. the data date/time now value, settings for project-activity processing options, etc.), and all information that can be generated from such data.

Critical Path - The Critical Path is defined as the longest continuous series of activities through the network to the Substantial Completion Contract Milestone.

Current Schedule - The Current Schedule has progress information (updates) reported against in-progress and completed activities. Update information is used to re-calculate / reforecast the most likely "early start" dates of the remaining incomplete activities as sequenced by the network. This calculation establishes the earliest forecasted completion date of the project, which allows Project Managers to determine if they are ahead, on, or behind schedule to meet the Contract Milestones. A current schedule is used to evaluate Contractor progress against the Baseline Schedule.

Interim Contract Milestone - An Interim Contract Milestone is a Milestone that is specifically called out by the Contract to be included in the project schedule. Example Interim Contract Milestones could be completion of specific phases of work at a specific number of contract days from NTP or required delivery dates of material or equipment.

Interim Schedule - The Interim Schedule and schedule narrative describes the activities to be performed within the first 120 calendar days after NTP and their interdependencies subject to all requirements of the Contract. The Interim Schedule shall include a separate proposed payment plan for its duration, which upon written approval by JEA, shall be used by the Contractor for payment purposes during the Interim Schedule period.

Milestone - A task with zero duration that identifies the instant of time at which a significant task within the project is starting or stopping. Start Milestones shall be used to represent the start of a significant task while Finish Milestones shall be used to represent the completion of a significant task.

Precedence Relationships - The logical relationships created in the scheduling software to sequence the performance of the work tasks identified by activities or milestones. Precedence relationships can be categorized in 4 groups - Finish-to-start, Start-to-Start, Finish-to-Finish, and Start-to-Finish. The interface between activities created by precedence relationships creates a PDM network logic. A PDM logic where estimated durations have not been assigned to the activities constitutes a network "Plan". Once activities are assigned estimated durations, the software interfaces durations and the network logic to calculate a "Schedule" based on the Plan.

Proposed Schedules - Proposed schedules are schedules in which the Contractor proposes revisions and/or changes to the Baseline Schedule for JEA's acceptance. If a Proposed Schedule is accepted by JEA, it shall be incorporated into a Revised Baseline Schedule and all work progress shall be reported against it going forward.

Revised Baseline Schedule - A Revised Baseline Schedule is submitted by the Contractor whenever changes in the Current Baseline Schedule are required to accurately reflect any changes in the Contractor's plan for performing the Work or the impact of any approved changes in the Work. The Revised Baseline Schedule, once approved by JEA, comes the Baseline Schedule from which progress and entitlement for adjustments to the Completion Deadline is measured.

Schedule Progress Updates - Schedule Progress Updates are submitted monthly by the Contractor to update the Current Schedule with status during the period of the update and to reflect the Contractor's current plan for performing the Work.

Three Week Look-ahead Schedule - A schedule, submitted by the Contractor, of all planned work to be performed over the next three weeks in sufficient detail to enable the tracking of the day-to-day field activities. The detail and format are as directed by the JEA project representative but a Three Week Look-Ahead produced from the Current Schedule is preferred. These Three Week Look-ahead Schedules are to be submitted weekly by the Contractor in PDF format.

Total Float - Total Float is the amount of time a scheduled activity can be delayed without delaying the completion of the Work beyond the Contract Milestones.

Purpose of the Project Schedule

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Project schedules shall be used for evaluating all issues related to time for this Contract. The project schedules shall be used by JEA and the Contractor for the following purposes as well as any other purpose where the issue of time is relevant:

1. To communicate to JEA the Contractor's current plan for carrying out the Work;
2. To identify work paths that are critical to the timely completion of the Work;
3. To identify upcoming activities on the critical path(s);
4. To evaluate the best course of action for mitigating the impact of unforeseen events;
5. As the basis of establishing the predecessors for each contract milestone;
6. As the basis for analyzing the time impact of changes in the Work;
7. As a reference in determining the cost associated with increases or decreases in the Work;
8. To prioritize activities for which JEA is responsible;
9. To document the actual progress of the Work;
10. To evaluate the resource requirements of the Contractor;
11. To integrate the Work with the operational requirements of JEA's facilities;
12. To schedule and coordinate interfaces with adjacent contracts;
13. As a basis for determining valid acceleration plans;
14. To facilitate efforts to complete the Work in a timely manner;
15. To verify progress of the Work as it pertains to billing periods and invoices for payment.

The project schedules provide a basis for decisions that may affect the Work under this Contract, as well as other concurrent or future contracts. The Contractor shall submit schedule submittals per the requirements of this specification. Project schedules should always reflect the Contractor's current plan for the Work and be updated as described in this specification.

Schedule Type
All project schedules shall be a computer generated, Critical Path Method (CPM) network utilizing the precedence diagram method of scheduling.

Software
The Project Schedule in CPM format (the "CPM schedule") shall be created in a format compatible with the latest version of Primavera P6, or as otherwise specified by JEA. The Contractor shall purchase and maintain a valid software maintenance agreement for each license of software necessary to produce the Project Schedule. The Contractor shall not upgrade to a new version of the scheduling software during a project unless previously approved in writing by JEA. If the Contractor desires, they may procure the services of a third party to provide scheduling services at no additional cost to JEA.

JEA currently uses Primavera P6 version 15.1 and would prefer Contractor's use either Primavera P6 or Primavera Contractor.

Use of Float
Total Float and Contract Float are not for the exclusive use or benefit of either JEA or the Contractor, but must be used in the best interest of completing the project within the Contract Time relative to the contract milestones. If the Early Dates in any Progress Schedule Submittal forecasts any slippage or overrun of the contract milestones, the Contractor shall indicate such slippage or overrun by reporting negative float. Total and Contract Float shall be available to JEA, consultants, or the Contractor to accommodate changes in the Work or to mitigate the effect of events which may delay performance or completion. Total and Contract Float are an expiring resource available to all parties, acting in good faith, as needed to meet the contract milestones. JEA will monitor and optimize the use of float for the benefit of the project.

Early Completion
An early completion schedule is one that anticipates completion of all or a specified part of the work ahead of the corresponding contract time. Since Contract Float belongs to the project, the contractor shall not be entitled to any extension in contract time or recovery for any delay incurred because of extensions of an early completion date until all Contract Float is used or consumed and performance or completion of the work extends beyond the contract time.

Pacing
If the Work is delayed on the Critical Path due to a delay caused by JEA, thereby creating additional float on any other path, then use of such float shall be construed as a concurrent delay to any delay caused by JEA. The Contractor shall maintain its original schedule on the other paths and activities not affected by the delay.

Non-Compliance
JEA may refuse to recommend/authorize a progress payment in the event of the Contractor's failure, refusal or neglect to provide the required schedule information, since this will preclude the proper evaluation of the Contractor's progress. Remedies for the Contractor's failure, neglect or refusal to comply with the requirements of this section are in addition, and not limited to, those provided under other sections of the Contract.

Quality Assurance

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The Contractor shall perform the Work covered by this section with personnel having substantial experience in the use of scheduling software on construction projects that required the development and maintenance of the schedule throughout the project duration.

It is the responsibility of the Contractor to work with each subcontractor and supplier to obtain information pertinent to the planning and updating of their respective activities in the schedule.

Baseline Schedule Preparation and Submittal
In achieving an approved Baseline Schedule there will be no adjustment in the Contract Price. In general, the Baseline Schedule shall demonstrate a complete understanding of the Work, inclusive of all phasing and sequencing considerations and shall include, but not be limited to:

1. The order in which the Contractor intends to prosecute the Work, outlining the intended flow of Work, including submittals, submittal reviews, procurement of equipment and materials, maintenance of traffic, pollution control measures, utility interfaces, right-of-way, and other information as required by the contract;

2. All relevant work constraints to performing the Work including, but not limited to, right-of-way access constraints (with clear logical connections to the commencement of various work), accommodation of utility relocations, permitting restrictions, and environmental/seasonal constraints;

3. The dates on which the Contractor plans to start and complete various Work stages, operations, and principle items of Work, including the Contract Milestones; and

4. Interfaces with other entities such as Utility Owners, Third Parties, adjacent contractors and other stakeholders;

5. The Baseline Schedule will be accompanied by a payment breakdown. This breakdown will identify the costs associated with each schedule activity.

6. All schedule submittals shall be in accordance with Section 7: Review, Acceptance and Approval of Project Schedule Submittals.

Completion, Timeliness and Review of Baseline Schedule Submittals
To promote the efficient use of Contractor and JEA scheduling resources, the submittal requirements have been phased. The Contractor shall complete and submit schedules in accordance with the submittal deadlines contained in Table 1. For the determination of submittal deadline dates and total contract schedule duration, the date of NTP shall be working day number one.

Baseline schedule submittals will be reviewed for conformity with the Contract and the requirements in this specification. Each submittal required by this section shall reflect the incorporation of all of JEA's comments on the Baseline Schedule to date. With each submittal, the Contractor shall provide a written response to each of JEA's comments to date.

Failure of the Contractor to provide complete, timely Baseline Schedule submittals as specified, and in the sequence and timeframes specified below, may result in delays or extensions to JEA review periods. Baseline Schedule Submittals may be rejected for incompleteness or failure to meet the specification requirements and re-submittal will be required. The Contractor may submit information earlier than required in the Baseline Schedule Submittal Schedule in Table 1.

Once approved by JEA, the Baseline Schedule shall be assigned as the Project Baseline in the scheduling software used by the Contractor. All subsequent printed schedules produced by the Contractor shall show both the Current Schedule and Baseline Schedule Gantt Chart bars.

Baseline Schedule Submittals
In the course of developing the Baseline Schedule, the Contractor shall submit the deliverables below for JEA review in accordance with the following schedule:

		Construction Duration	Construction Duration 6 - 12 Months	Construction Duration > 12 Months
Step	**Description**	**Submittal Deadline (Working Days after NTP)**	**Submittal Deadline (Working Days after NTP)**	**Submittal Deadline (Workin Days after NTP)**
1	Interim Schedule Submittal	10	10	10
2	Proposed Payment Breakdown	15	20	20

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

3	Baseline Schedule Submittal	20	30	60
4	Corrected Baseline Schedule Submittal	30	45	80

Table 1: Baseline Schedule Submittal Schedule

Step 1 - Interim Schedule Submittal
No later than the deadline specified in table 1, the Contractor shall submit an Interim Schedule detailing activities that are to be performed within the first 120 calendar days after NTP. JEA will review and may approve an acceptable Interim Schedule within 10 working days of submittal. JEA may require the full Interim Schedule, or parts thereof, to be resubmitted throughout the review period. The Interim Schedule Submittal shall include:

- Narrative Report describing work to be performed during the Interim Schedule period using the Baseline Schedule Narrative format described below.
- Electronic schedule file.
- A proposed payment plan, which upon written approval by JEA, shall be used by the Contractor for payment purposes during the Interim Schedule period.

APPROVAL OF THE INTERIM SCHEDULE IS A CONDITION PRECEDENT FOR PAYMENT.

Step 2 - Proposed Payment Breakdown Submittal
No later than the deadline specified in table 1, the Contractor shall submit the proposed Schedule of Values (SOV), which upon approval by JEA, shall be used by the Contractor for payment application purposes. When preparing the SOV, consideration should be given to Enterprise Asset Management reporting requirements that are required at the end of the contract.

As part of the Proposed Payment Breakdown Submittal, the contractor shall also submit a list of all submittals required by the contract.

Step 3 - Baseline Schedule Submittal
No later than the deadline specified in table 1, the Contractor shall complete the Baseline Schedule submittal for approval representing all Work required by the contract. The Baseline Schedule submittal shall include:

- Baseline Narrative Report;
- Electronic schedule file;
- Contract Payment Breakdown Report - a report forecasting monthly cash flow that details all costs loaded to the schedule;
- Cumulative and monthly total project costs curves reflecting the total contract amount.

APPROVAL OF THE BASELINE SCHEDULE IS A CONDITION PRECEDENT FOR PAYMENT BEYOND THE INTERIM SCHEDULE.

Step 4 - Corrected Baseline Schedule Submittal
In the event the Baseline Schedule submittal (Step 3) is not approved, and no later than the deadline specified in table 1, the Contractor shall complete the Corrected Baseline Schedule Submittal. The Contractor shall correct the Baseline Schedule submittal for approval by incorporating all of JEA's comments on the initial Baseline Schedule submittal. No additional changes shall be made. The corrected Baseline Schedule submittal shall be revised and resubmitted until receipt of JEA approval.

Schedule Requirements
General - For the purpose of enabling both JEA and the Contractor to readily evaluate the Project Schedule, including derived data and reports, the Project Schedules shall be administered in accordance with the following requirements.

All schedules shall be prepared by the Contractor and reflect the Contractor's plans, means and methods, techniques and sequences for performing the Work.

The schedules shall break down the Work into distinct activities with interdependencies to the extent required to clearly depict the planned approach for completion of the Work and to effectively manage the execution of the Work. The schedules shall:

1. Divide the Work into manageable and logical segments and specify the progression from Notice to Proceed (NTP) to Substantial Completion (SC) to Final Completion (FC) within the Contract Time.

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2. Include, at a minimum, appropriate time allowances for submittals, procurement, coordination with others, construction, start-up/check-out (if applicable), operational and performance testing (if applicable), commissioning (if applicable), and Contract closeout.

3. The NTP activity shall be the first activity in the schedule and shall be a Start Milestone with an assigned 7-day, no holiday calendar. The SC and FC activities shall be Finish Milestones with assigned "Finish on or Before" constraints, set to the contract milestone dates, with a 7-day no holiday calendar.

4. The NTP, SC and FC milestones may include the contract milestone dates in the activity description for quick reference by all parties.

Schedule Settings and Setup - If the Contractor will be using Oracle Primavera P6, the settings shall be as follows:

1. The Project ID will be the contract number between JEA and the Contractor. It will be appended as described in the following section titled "Project ID Suffix". The Project Name shall be as defined in the contract between JEA and the Contractor.

2. The Project WBS will, at a minimum consist of the following:

Level 1 - Project

Level 2 - Executive Summary

a) Shall be populated with sufficient Level of Effort activities and milestones to provide management an overview of the contract. All Contract Milestones will be included at this level.

Level 3 - Submittal Preparation

Level 4 - Submittal Review and Acceptance

Delivery

The WBS for the remaining construction related work is at the discretion of the Contractor. The Contractor must ensure that the WBS structure is sufficiently robust to segregate, manage, and present the various work types, phases, segments, elements and locations in a clear logical manner and convey the sequence at which the Contractor intends to construction the Work.

3. Project ID Suffix:

Each schedule submittal shall have a unique identifier appended to the Project ID specified in the previous section titled "Project ID/Name", in the form of:

a. For Baseline Schedules, "-BL".

b. For Proposed Schedules, "-Pbbb", where "bbb" is sequential starting at 001.

c. For Revised Baseline Schedules, "-RBLccc", where "ccc" is sequential starting at 001.

d. For Schedule Progress Updates, "-PUyymm", where "yy" and "mm" correspond to the year and month of the monthly submittal.

4. Activity Codes must be maintained at the Project level.

5. Calendars must be maintained at the Project level and account for all work scenarios in the Contract and planned by the Contractor.

6. Units.

7. Percent Complete Type shall be "Physical".

8. Make Open Ended Activities Critical should be checked.

9. Scheduling method for progressed activities shall be set to "Retained Logic".

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10. Total Float Calculations shall be set to “Finish Float = Late Finish - Early Finish”.

11. Define Critical Activities as “Longest Path”.

Activity Identification - each activity in the Project Schedules shall have an activity identifier (Activity ID). The Contractor shall utilize an Activity ID that is simple and allows space between existing activities for the future addition of activities for continuing sort and display capability. The Activity ID of an existing activity shall not be modified or assigned to another activity. The scope of work for an activity shall not be substantially changed once the Baseline Schedule is approved since this would result in re-use of the Activity ID for a different scope of work. If the Contactor opts to use an intelligent Activity ID, the contractor must provide a breakdown of what each character of the Activity ID represents.

Activity Description - the activity description shall identify the unique scope of the activity. There shall not be any two activities with the same activity description. It shall not be necessary to investigate activity code assignments or logic relationships to identify the scope of an activity. For example, the description “POUR FOOTINGS” or “INSTALL MANHOLE” will not be acceptable; the description “POUR FOOTINGS OF BIOSOLIDS BUILDING” or “INSTALL MANHOLE - Sta. 112+00” will be acceptable. At the same time, the Activity Description shall be concise enough to not require excessive column width in the Oracle Primavera P6 layout. The terms “Miscellaneous, Misc.” or other vague adjectives shall not be used as an activity description. The Contractor shall standardize the use of terms and their spelling in all activity descriptions. Abbreviations used in activity descriptions shall be consistent with the abbreviations used throughout the Contract and the design drawings. Once the Baseline Schedule is approved, activity descriptions shall not be modified except at the direction or with the consent of JEA.

Activity Duration - unless otherwise specified, construction activities shall have a duration between one (1) and fifteen (15) working days. At the request of JEA, the Contractor shall substantiate the need for specific activities having shorter or longer durations than stated herein. Certain non-labor activities such as procurement or delivering of materials may have durations in excess of 15 working days. After approval of the Baseline Schedule, changes in activity durations shall be addressed exclusively with the Duration Remaining data field. JEA shall be the final authority regarding the appropriate level of schedule detail for all schedules submitted for approval.

Activity Dates - Early and Late start and finish dates of activities shall be calculated for each activity based upon the schedule data date, actual dates, schedule logic, schedule constraints, calendars, original duration or remaining duration, in accordance with the schedule parameters defined in this specification.

Activity Predecessors and Successors - every activity shall have logically assigned predecessors and successors in conformance with the requirements of this section. The logical predecessors for each activity will be limited to those activities whose scope of work necessarily must be completed in order to perform the current activity. Unless otherwise specified, NTP shall be the only activity in the Project Schedules without predecessors and the Final Completion activity shall be the only activity in the Project Schedules without a successor.

Activity Constraints - Activity Constraints can affect activity float calculations and will not be used unless approved by JEA or allowed by this specification. The imposition of a date constraint on any activity other than the contract completion deadlines will only be permitted when the Contractor substantiates the need for the constraints to the satisfaction of JEA.

Activity Percent Complete - Activity remaining durations and percent complete shall be entered in the Project Schedules by the Contractor as appropriate to indicate activity progress and status as of the current Data Date for the update. The Contractor is to insure that progress is based on a current estimate of remaining duration to complete the Work and not the activity’s percent complete which calculates the remaining duration based on the original estimated duration.

Activity Codes - The Project Schedules shall contain activity code classifications and code values. The coding shall also incorporate the appropriate JEA provided data elements to allow reporting by any individual element or a combination thereof. These activity codes shall be the first codes defined for the activities, followed by any other codes, and shall use the values provided by JEA following award. The Contractor may add additional codes to satisfy its own requirements. In addition to JEA’s activity codes, the Contractor shall propose a coding structure for JEA’s review and acceptance. The activity code structure combined with the activity identification number shall provide the capability to organize information by location, road or ramp, structure, work type, subcontractor, discipline, etc.

Activity Calendar -The planning unit for the Work shall be whole working days. The use of other calendars may be used as required with a clear definition within the calendar description and/or the Baseline Schedule Narrative as to what the calendar is intended to be used for and/or what specific non-working periods they include. Level of Effort or WBS Summary activities used to show project durations from NTP to a Contract Milestone shall use a seven-day no holiday calendar. A common calendar base time of eight (8) consecutive hours (e.g., 8 AM to 4 PM) will be used on all calendars unless approved by JEA. To ensure activity start and finish dates are accurately calculated, time will be turned on when performing updates to the Project Schedule. This ensures activity durations are not inadvertently calculated as a partial workday or result in a 1-day duration activity spanning

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multiple dates.

Resource Loading -All Project Schedules on contracts in excess of $10 million shall be resource loaded with labor man-hours for both the Contractor and all of its sub-contractors.

Cost Loading - Project Schedules shall be cost loaded. All costs necessary to meet the particular requirements of each payment activity will be included in the payment breakdown and that breakdown will total up to the Contract Price.

Change Orders/SWA - New activities will be added to the project schedules upon approval of a Change order or SWA. These new activities will also include the costs associated with the Change Order/SWA. The Activity ID of these new activities should clearly show it represents a Change Order or SWA. For example, an activity with an ID of "CO1-100" indicates that it represents Change Order #1. If multiple activities are to be added under a single Change Order or SWA they shall be sequentially numbered such as CO1-100, CO1-110, CO1-120, etc.

CPM Logic - The Contractor shall be responsible for developing the CPM logic of the Baseline Schedule and for updating that CPM logic each month to accurately reflect the progress of the Work to date and the Contractor's current plan for completion of the work. All paths through the Project Schedules shall proceed in the direction representing the progression of time. Activity lag durations shall not have a negative value. Activity lags shall not be used in lieu of activities. Redundant ties to preceding activities in a sequential series of activities will not be permitted. For example, if activity C is the successor in a Finish-Start relationship to activity B, and activity B is the successor in a Finish-Start relationship to activity A, then activity A shall not have a redundant Finish-Start relationship to activity C. A tie representing a different constraint will not be considered redundant. For example, a logic tie showing that the completion of the work scope of a predecessor is required before the successor can start is different from a logic tie representing a resource limitation and will not be considered redundant.

Timely Completion - Unless otherwise specified, timely completion shall refer to completion on or before a date that supports the Contract Milestones.

Use of Constraints or Float Suppression Techniques - Any use of Start constraints within the schedule shall be documented in the schedule narrative. The only instance where a Late Finish constraint may be used is for the Substantial Completion or Final Completion Milestones. Any other use of constraints is prohibited. The use of negative lags or the use of any other float suppression techniques is also prohibited from use in project schedules.

Resource Leveling - In schedule submittals to JEA, the Contractor shall not use restraints or constraints to optimize and/or level manpower and equipment requirements. Activities shall be duration and logic driven.

Default Progress Data -Actual Start and Finish dates shall not be automatically updated by default mechanisms that may be included in the CPM scheduling software systems.

Out-of-Sequence Logic -The Contractor shall correct all incorrect logic relationships in the schedule update to eliminate any out-of-sequence logic. The Contractor shall make all changes in the logic or other adjustments found to be incorrect by JEA.

Narratives

Baseline Schedule Narrative

The Baseline Schedule narrative shall demonstrate a feasible approach to achieving or improving the planned schedule and contains the following information:

Identification of the Data Date and schedule file name.

A description of the planned flow of work, identifying all key or driving resources. Identify key constraints and potential problems influencing the Contractor's approach to the work. Describe all construction interfaces with third parties at the Project site. Also identify temporary Contractor plants, facilities or fixed equipment that the Contractor or subcontractor plan to use within the right-of-way. Include in this discussion the length of time the plant is to be used, any planned moves, and any potential conflicts that could arise, if the plan is not adhered to.

A summary of planned labor utilization for the Contract, identifying the average and maximum number of workers on site each month based on the resource loaded Project Schedules. Identify actual and potential labor resource limitations. A summary of planned equipment utilization for the Contract, identifying each type of operated equipment to be used on the Work, the planned quantity of each type of operated equipment utilized each month, and the criteria for mobilizing and demobilizing each piece of equipment to and from the site. Identify actual and potential equipment resource limitations.

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An explanation of how adverse weather conditions have been addressed in the Baseline Schedule. Identify all activities, if any, that contain contingency days for adverse weather conditions and the duration of such contingency included for each.

An explanation of special calendars that only allow work to take place during a pre-defined window of time.

The narrative shall address the Contractor's material procurement plan and identify the strategy for any long lead item(s). There shall be no fabrication and delivery activities for concrete and asphalt concrete. Fabrication and delivery activities for short lead-time items shall not be included in the project schedules. "Short lead-time" shall be defined as a period of two weeks or less from placement of order to delivery of material to the Project site.

Schedule Progress Update Narrative

All Schedule Progress Update submittals shall include a narrative containing the following information:

Identification of the update period, the Data Date, and the schedule file name.

Identification of activities with critical or near critical float (within 14 Days of the Critical Path) that were planned to occur during the update period, of which did not occur or occurred later than the scheduled Early Start or Early Finish date, and an explanation of these delays. Provide a listing of all activities that may overrun or have overrun their planned duration by more than 20 percent and any justification for maintaining original planned durations for future activities of like Work.

Identification of delays occurring to activities taking place off the Project site, e.g., submittal preparation, fabrication, and delivery activities.

A summary of planned labor utilization for the Contract, identifying the average and maximum number of workers on site each month. Identify actual and potential labor resource limitations. A summary of the actual labor utilization used over the past month.

A summary of planned equipment utilization for the Project, identifying each type of operated equipment to be used on the Work, the planned quantity of each type of operated equipment utilized each month, and all changes to the criteria for mobilizing and demobilizing each piece of equipment to and from the Project site. Identify actual and potential equipment resource problems. A summary of the actual equipment utilized over the past month.

Revisions to logic or duration(s) by the Contractor to effectively use labor and resources that have no adverse effect on Completion Deadlines or Contract Price shall be detailed in the update. These revisions shall contain the following information:

Identification of the activities changed.

A description of the scope of the logic change and identification of the advantages and disadvantages of implementing the change.

Identification of all driving resources, if any.

Identification of key constraints influencing the Contractor's approach to the Work.

Required Submittal and Delivery Activities

Submittal List

The Contractor shall submit a list of all submittals required by the Contract, as part of Step 2 no later than the deadline identified in Table 1.

The submittal list shall conform to the following format or any other format approved by JEA:

Submittal List		
Submittal Reference Number	**Description of Submittal**	**Activity ID**

Table 2: *Submittal List Format*

Submittal Activities

Submittal activities shall be included in the Project Schedules in a manner consistent with the level of detail shown below:

Activity	Abbreviation in Activity Description

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Prepare and Submit	P/S
Review and Approve	R/A
Revise and Re-submit	R/R
Fabricate and Deliver (Material or Equipment)	F/D or FAB or DEL

Table 3: Submittal Activity Detail

Submittals with Multiple Activities

When multiple items are included in a single submittal, that submittal shall be represented in the schedule by an activity in accordance with the following conditions:

The “Review and Approve" activity for that submittal shall be a predecessor to every activity representing the fabrication and delivery of any of the materials submitted.

If the submittal is returned and the disposition is sufficient to enable the commencement of a successor activity, then the original submittal activity shall be broken down into multiple activities, as necessary, to accurately reflect the logic of the Contractor's current plan.

As part of the monthly update procedure, submittal activities shall be reviewed and modified to ensure that the scope and logic of the activities are consistent with the Contractor’s current plan.

Delivery Activities

Activities representing the delivery of materials or equipment for more than one installation activity will be permitted in accordance with the following conditions:

The material delivery activity shall be a predecessor to the first activity representing the installation of that material in each area;

When partial deliveries are received and those deliveries are adequate to enable the commencement of some, but not all, successor activities, then the original delivery activity shall be broken down into multiple activities, as necessary to accurately reflect the logic of the Contractor’s current plan;

As part of the monthly update procedure, a discussion of delivery activities shall be reviewed and modified to ensure that the scope and logic of delivery activities are consistent with the Contractor’s current plan; and

There shall be no fabrication and delivery activities for concrete and asphalt concrete. Fabrication and delivery activities for short lead-time items shall not be included in the project Schedules. “Short-lead time" shall be defined as a period of two weeks or less from placement of order to delivery of material to the Project site.

Timely Completion

Unless otherwise specified, timely completion shall refer to completion on or before a date that supports the Completion Deadlines.

Use of Constraints or Float Suppression Techniques

Any use of constraints within the schedule shall be documented in the schedule narrative. The only instance where a constraint may be used is a Finish on or Before constraint on Contract Milestones. Any other use of constraints is prohibited. This includes the following: Start On, Mandatory Start or Finish. The use of negative lags or the use of any other float suppression techniques is also prohibited from use in the project schedules.

Resource Leveling

In schedule submittals to JEA the Contractor shall not use restraints or constraints to optimize and/or level manpower and equipment requirements. Activities shall be duration and logic driven.

Default Progress Data

Actual Start and Finish dates shall not be automatically updated by default mechanisms that may be included in the CPM scheduling software systems.

Out-of-Sequence Logic

The Contractor shall correct all incorrect logic relationships in the schedule update to eliminate any out-of-sequence logic. The Contractor shall make all changes in the logic or other adjustments found to be incorrect by JEA.

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Electronic Schedule Naming and Formatting

JEA will provide guidance on schedule name designation to be used. The Contractor shall not submit any two schedules with the same file name.

Electronic Project Schedule Files

Electronic schedule files shall be in ".xer" format compatible with Oracle Primavera P6. Electronic narrative files shall be in readable PDF format (not scanned).

Printed Project Schedules

PDF or printed schedules shall be no larger than 11"x17" in landscape format and no more than one page wide. PDF or printed schedules should show Activity ID, Activity Name, Original Duration, Remaining Duration, Start, Finish and Total Float columns. The Gantt Chart shall show bars for Actual Work, Remaining Work, Critical Remaining Work, Current Bar Labels, Milestones, Project Baseline and Baseline Milestone. The Data Date line shall also be displayed on the Gantt Chart.

The header of PDF or printed schedules shall contain the project name, the run date and the data date at a minimum. The footer shall contain a Gantt Chart legend, page number, total pages number and active filters at a minimum.

Schedule Progress Updates

The Contractor shall update the Current Baseline Schedule in the form of a Schedule Progress Update on a monthly basis for the duration of the Contract. This shall not constitute a modification of the Current Baseline Schedule. The purpose of Schedule Progress Updates shall be to accurately document the progress of the Work to-date and to correct the schedule to accurately reflect the Contractor's current plan for the timely completion of the Work. Schedule Progress Updates shall be used to record progress for payment purposes and to reflect how the Work is being performed.

Schedule Progress Updates shall never be used as the basis for any adjustment in the Completion Deadlines. Any acceptance of the Schedule Progress Update by JEA, either expressed or implied, shall only apply to the issue of progress and not to any issue of acceptability or accuracy of the Schedule Progress Update for use as a basis for measuring adjustments in Completion Deadlines. The Schedule Progress Update submittal shall be due with Contractor's invoice for payment, and shall be a prerequisite to payment by JEA.

Monthly Schedule Progress Update Period

A monthly Schedule Progress Update of the Current Baseline Schedule shall be submitted for each calendar month from the date of the NTP through the date of Final Acceptance. The Data Date of each monthly Schedule Progress Update shall be coordinated with the JEA Project Manager but is typically one of three options:

> The last calendar day of the month, meaning that the progress of the Work to date shall be documented and progressed through the last day of the month; or

The last day of the pay application billing period so that schedule progress and billing are in alignment; or

The day of monthly progress meetings where the contractor will supply the updated monthly schedule.

Monthly Schedule Progress Update Data

A joint monthly schedule update meeting shall be held in conjunction with the construction progress update meeting. The purpose of this meeting is to review and discuss the contents of the most recent Schedule Progress Update submittal. The JEA review period for the monthly Schedule Progress Update data submittal is 10 working days. The Schedule Progress Update data submittal shall consist of the following submittal components:

A schedule narrative consistent with the Narrative section above;

Electronic files with record schedule incorporating all submitted Schedule Update Data (PUXXX);

The actual progress achieved on each operation and its effect upon the timing of the remaining work;

All required documentation required under the Contract in support of the invoice;

A comparison report showing all changes made to the schedule since the last Schedule Update;

Production curves showing the approved baseline production (planned) values and the actual production values; and

Should any Work be conducted on a time and materials basis then this update shall contain all necessary data to record progress;

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In the event of discrepancies between the submitted data and JEA's records of progress, JEA's records shall govern. JEA's decision shall be final regarding all Schedule Progress Update data. The submittal of incomplete, illegible, or unchecked data or of reports that do not conform to the requirements of this specification may result in the rejection of Schedule Progress Update data, and as such will require a revision and re-submittal.

SUBMITTAL TO JEA OF THE CONTRACTOR'S MONTHLY SCHEDULE PROGRESS UPDATE IS A CONDITION PRECEDENT FOR PAYMENT TO BE INITIATED.

Acceptance of the Schedule Progress Update shall not relieve the Contractor of its obligation to make appropriate corrections to all of the Project Schedules.

JEA shall not be liable for delays to the Contractor's Work that occur during a time when the Contractor has failed to provide a Schedule Progress Update in accordance with the requirements of the Contract, when having the Schedule Progress Update at the specified time could have influenced JEA's decisions or actions.

The Schedule Progress Update submittal shall reflect updated progress to the Data Date, forecasted finish for in-progress activities, and re-forecasted Early Dates and Late Dates for remaining activities. The Contractor shall submit any changes in activity durations, logic ties or constraints for review and acceptance by JEA prior to inclusion of the change into the current Schedule Progress Update. JEA may also submit changes to the Contractor for inclusion in the current Schedule Progress Update. These changes should be forwarded to the Contractor for review prior to the monthly construction progress meeting for discussion in that meeting.

Progress Delays

The Contractor shall identify and promptly report to JEA as soon as they become aware of any matter that could:

Increase the project budgeted cost or Contract Price,

Delay the Substantial Completion Deadline,

Delay meeting a key date or Interim Contract Milestone (if applicable),

Impair the performance of the work in progress,

Affect the work of JEA or third parties.

The Contractor shall promptly develop a schedule recovery or mitigation plan whenever the Contractor's actual physical progress is behind schedule by thirty (30) days when compared to the Current Baseline Schedule or could potentially be delayed by thirty (30) days, or within ten (10) days of a written request by JEA. The Contractor shall submit a schedule recovery or mitigation plan in the form of a Proposed Schedule, whenever the Project Schedule becomes thirty (30) or more Days late to Substantial Completion. The submission of the recovery or mitigation plan shall be at no cost to JEA and shall be submitted within thirty (30) days of the submittal of the Schedule Progress Update that indicates the Project is thirty (30) or more Days late or at JEA's request. Failure to submit such a recovery plan within the stated timeframe shall provide a basis for future withholdings for payment, either in whole, or in part, by JEA.

Monthly Progress and Invoice Procedure

On a monthly basis, prior to formal submittal of the monthly invoice, the Contractor shall confirm with JEA the percent complete of work performed prior to submitting the invoice, including the following:

Activity percent completes, which are based on physical percent complete estimated by the field personnel relating to a resource and cost loaded schedule activity. To streamline this process, earning rules will be established to detail how various activities are progressed and partially paid. These rules will describe how discrete elements of work are to be measured for the purposes of measuring percent completion and be submitted in conjunction with the resource and cost loaded baseline schedules.

Incorporation of approved Change Orders as individual activities with proper title, coding by Change Order number, associated logic, duration, as well as cost/resource loading.

Verification of any unit price or time and material items.

Backup documentation for cost reimbursable procurement and Change Order schedule activities.

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Revised Baseline Schedules

Any proposed changes and/or revisions to the Current Baseline Schedule approved by JEA pursuant to its review of Change Orders shall be incorporated into the Current Baseline Schedule and submitted as a Revised Baseline Schedule Submittal. A Revised Baseline Schedule Submittal shall be due with the invoice for payment following JEA's approval of the changes and/or revisions, as submitted in executed Change Orders. The Revised Baseline Schedule shall include a cost distribution for added Work and will be submitted for review and approval by JEA.

Revised Baseline Schedule Submittals shall include a comprehensive listing of all activities added to or deleted from the Current Baseline Schedule as well as a complete listing of all logic and activity relationship changes that have been made. All changes in the schedule must be fully described in an accompanying narrative. No Revised Baseline Schedule Submittal will be approved unless it satisfies the following:

Any out-of-sequenced logic is corrected or explained to the satisfaction of JEA;

Start and Finish dates are verified for accuracy; and

The schedule accurately reflects the Contractor's plan for completing the remaining Work.

Once a Revised Baseline Schedule Submittal is approved by JEA it shall become the Current Baseline Schedule of record (and be used for subsequent Schedule Progress Update Submittals), and shall be referred to by its revision number.

Except as otherwise designated by Change Order, no Revised Baseline Schedule that extends performance beyond a Completion Deadline shall qualify as a Current Baseline Schedule, or schedule of record, allowing it to be used to demonstrate entitlement to an extension in a Completion Deadline. In no case shall a Schedule Progress Update be construed as a Revised Baseline Schedule or schedule of record unless it is specifically submitted and approved as such by JEA pursuant to this section.

Short Term Schedule

Short Term Schedules shall be submitted by the Contractor upon request from JEA and shall be provided for within the Contract Price. JEA will specify the period the Short Term Schedule shall encompass. The Contractor shall produce the Short Term Schedule electronically and it will include a Gantt Chart and details of the daily work activities, including multiple shift work, that the Contractor intends to conduct. The daily activities shall correspond to the Current Baseline Schedule activities but shall be at a greater level of detail. The Contractor shall be prepared to discuss the Short Term Schedules, in detail, with JEA to coordinate field inspection staffing requirements, scheduling of Work affecting any adjacent work by other utilities or contractors.

The Three Week Look Ahead Schedule is an example of a Short Term Schedule. Three Week Look Ahead Schedules are to be submitted weekly by the Contractor in addition to the Contractor's monthly Schedule Progress updates.

Review, Acceptance and Approval of Project Schedule Submittals

Failure to meet any of the following conditions shall result in the non-acceptance of the schedule submittal:

The project budgeted cost shall equal the Contract Price;

The schedule submittal shall show the timely completion of each activity, as well as, reflect all contractual access requirements and limitations of operations specified;

All activity relationships and date constraints shall comply with the requirements of the Contract Documents; and

The Submittal shall be complete in accordance with the requirements of this Specification.

If the schedule submittal is returned to the Contractor with comments, the submittal shall not be considered accepted until all of JEA's comments are incorporated into the schedule to JEA's satisfaction. If the comments are not satisfactorily incorporated into the schedule by the Contractor, the submittal shall be deemed unacceptable by JEA.

It is the Contractor's responsibility to ensure that all Project Schedule documents comply with the requirements of the Contract. Errors in any Project Schedule document accepted by JEA, including but not limited to activity durations, relationships between activities, resource allocation or other float suppression techniques that do not accurately reflect the Work, may be identified at any time and once identified, shall be corrected by the Contractor. JEA is not responsible for any erroneous assumptions or information in any Project Schedule document, regardless of origin.

During the review of any Project Schedule document, if any of the following conditions are discovered, the document may be returned by JEA without further review for correction and re-submittal:

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The document is incomplete.

The document does not comply with the specified format.

A component of the document has not been prepared in accordance with the requirements of this section.

The quality of the document indicates that the Contractor has failed to perform an internal quality control review prior to submission.

There is an inconsistency between electronic files and printed material.

The Contractor has made unauthorized changes to any Project Schedule document.

The Contractor has failed to incorporate JEA comments concerning the Project Schedule document.

JEA's failure to return a submittal shall not be construed to mean that the submittal complies with the requirements of the Contract. JEA may, at its discretion, choose to complete a review even though the submittal fails to meet one or more of the conditions for rejection stated herein. The Contractor shall be responsible for all delays due to its failure to submit complete Project Schedule submittals in accordance with the requirements of the Contract.

JEA's acceptance or approval of a Project Schedule document indicates only that the submittal appears to comply with the requirements of the Contract. It is the Contractor's responsibility to ensure that each submittal complies with the requirements of the Contract. Inconsistencies or errors in any Project Schedule document, including but not limited to activity durations, relationships between activities, resource allocation or other float suppression techniques that do not accurately reflect the Work, may be identified at any time and once identified, shall be immediately corrected by the Contractor.

JEA shall review schedule submittals for conformance with the requirements of the Contract. Review comments by JEA may address whether items of Work are omitted, activity durations are reasonable or that the level of labor, materials, and equipment, the means, methods, timing and sequencing of the Work are practical. The planning, scheduling or execution of the Work and the accuracy of any Project Schedule shall remain the sole responsibility of the Contractor.

Notwithstanding any review, review comments, approval, acceptance, scheduling assistance or direction to change and/or revise any Project Schedule by JEA the Project Schedules shall at all times be the Contractor's schedule for performing the Work and not be considered as any JEA direction constituting a change. The Contractor shall not be relieved from completing the Work within the Completion Deadlines due to the failure of the Contractor to submit acceptable Project Schedule documents.

Requirements for Demonstrating Entitlement to an Adjustment in the Contract Time or Obtaining Approval of a Plan to Recover Delay

Schedule Analysis Requirements

The Contractor shall develop and submit a time impact analysis and a Proposed Schedule when one or more of the following conditions occur:

The Contractor's plan for the Work as reflected in the Current Baseline Schedule is materially changed;

JEA has approved a Change Order that affects the Critical Path of the Work necessitating an adjustment in a Completion Deadline;

The Contractor's progress on the Work is behind the Substantial Completion date by thirty (30) days or more;

In JEA's opinion, the Current Baseline Schedule no longer accurately reflects the Contractor's plan for performing the Work;

The Contractor is required by the Contract or chooses to submit a time impact analysis demonstrating entitlement to an adjustment to a Completion Deadline or to submit a plan demonstrating how the Contractor intends to recover delay; or

Any allowable change has occurred according to the Contract.

The Contractor shall use *AACEi Recommended Practice 52R-06 Time Impact Analysis - As Applied to Construction* when preparing a time impact analysis.

The Contractor shall submit a time impact analysis and a Proposed Schedule within fourteen (14) days following a request by JEA. This required fourteen (14) day period may be extended as necessary subject to the approval of JEA. The Proposed

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Schedule shall be developed using duplicate electronic files of the Current Baseline Schedule and shall include all statuses to reflect current progress using information from agreed to Schedule Progress Updates, but shall not allocate costs to any proposed activities. Multiple delays will be analyzed chronologically in the order of occurrence. Costs may be allocated to activities only when the Change Order has been approved by JEA. Under no circumstances shall a time impact analysis based on Schedule Progress Update(s) be acceptable as a basis for an adjustment to a Completion Deadline.

Proposed Schedules shall be used by the Contractor to:

Request revisions to logic ties and activities in the Current Baseline Schedule,

Propose changes in the Current Baseline Schedule required to implement schedule recovery plans,

To negotiate the schedule impact of a Change Order proposal with JEA, or

To propose changes for any other reason in the Current Baseline Schedule.

Proposed Schedules shall code affected and added activities to each Change Order proposal or schedule recovery plan. Furthermore, Proposed Schedules shall accurately reflect all revisions and/or adjustments made to activities, logic ties and restraints that are necessary to reflect the Contractor's current approach for Work remaining. At a minimum, Proposed Schedules shall:

Incorporate all proposed activities and logic ties required to implement any proposed revisions,

Detail all impacts on pre-existing activities and logic ties,

Include a narrative describing the causes of any delay and actions planned to recover the schedule to meet Contract Deadlines.

Each Proposed Schedule shall include a subnet demonstrating how the Contractor plans to incorporate a Change Order proposal or other change and/or revision into the Current Baseline Schedule. A subnet is defined as a sequence of new or revised activities that are proposed to be added to the Current Baseline Schedule.

Notwithstanding any other provision or provisions to the contrary, the Contractor shall have no claim for damages of any kind, or extension or increase to a Completion Deadline, or adjustment of Contract Price, on account of any delay, interruption or suspension of the Work or any portion thereof (herein after collectively referred to as "Delay"), due to whatever cause, unless in addition to all other requirements of the Contract Documents the prerequisites of this section are strictly complied with.

If the Contractor does not submit a time impact analysis for a specific change order or delay within the specified period, the Contractor shall be deemed to have irrevocably waived any rights to additional time and cost.

Mitigation of Delays

The Contractor shall be responsible to develop mitigation measures for all delays, regardless of responsibility for the delays, and to identify all time and cost impacts to the Work associated with those mitigation measures. Unless circumstances otherwise require, the Contractor shall not pursue mitigation action for which it expects JEA to be liable, prior to notifying JEA and receiving JEA authorization to proceed with the mitigation action.

All Contractor proposals for mitigation action, including proposed revisions for timely completion, shall confirm that the Contractor has verified the accuracy of all critical paths to the Substantial Completion Deadline.

Whenever it is possible for the Contractor to mitigate delay without added cost, the Contractor shall do so. The Contractor shall mitigate all delays as efficiently and economically as possible, with the objective of minimizing both the time and cost impact of the delay, regardless of responsibility for the delay. JEA will not be liable for damages that the Contractor could have avoided by reasonable means, such as prudent scheduling of the Work and judicious handling of forces, equipment, or materials.

1.15.16. COMPANY REVIEW OF PROJECT REQUIREMENTS

The Company shall review the Work requirements and specifications prior to commencing Work. The Company shall immediately notify the Contract Administrator in writing of any conflict with applicable law, or any error, inconsistency or omission it may discover. JEA will promptly review the alleged conflicts, errors, inconsistencies or omissions, and issue a Change Order or Purchase Order as appropriate if JEA is in agreement with the alleged conflict, and issue revised specifications. Any Work the Company performs prior to receipt of approved Change Order will be at the Company's sole risk.

1.15.17. LICENSES

The Company shall comply with all licensing, registration and/or certification requirements pursuant to applicable laws, rules and

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regulations. The Company shall secure all licenses, registrations and certifications as required for the performance of the Work and shall pay all fees associated with securing them. The Company shall produce written evidence of licenses and other certifications immediately upon request from JEA.

1.15.18. PERFORMANCE OF THE WORK

The Company represents and warrants that it has the full corporate right, power and authority to enter into the Contract and to perform the acts required of it hereunder, and that the performance of its obligations and duties hereunder does not and will not violate any Contract to which the Company is a party or by which it is otherwise bound. The Company warrants that all items provided under the Contract shall be free from Defect and services shall be performed in a professional manner and with professional diligence and skill, consistent with the prevailing standards of the industry. The Company warrants that the Work will meet the functional and performance requirements defined in the Contract.

1.15.19. PROTECTION OF COMPANY PROPERTY

The Company shall bear sole responsibility for the efficiency, adequacy and safety of the performance of the Work, including temporary Work and facilities, until Final Completion. The Company shall be solely responsible for any loss or damage to materials, labor, and equipment used during the performance of, or in connection with, the Work. Any JEA comments or approval regarding the Company's performance, materials, working force, or equipment will not relieve the Company of any responsibility for such loss.

1.15.20. PROTECTION OF EXISTING FACILITIES AND GROUNDS

The Company shall be responsible for protecting all the existing facilities including, but not limited to, buildings, lawns, landscaping, sprinkler systems, and pavements, both public and private, that are encountered during the performance of the Work. At all times, the Company shall cooperate with the owners of such facilities by arranging and performing the Work in and around such facilities in a manner that facilitates their preservation, relocation, and/or reconstruction. The Company shall be responsible for the full restoration or replacement if the Company damages such facilities during or resulting from performance of the Work.

The Company shall verify the existing dimensions and clearances before laying out the Work. When the Work involves the laying of utility lines across landscaped areas and grassed areas, which may include, but is not limited to, irrigation systems, streets, sidewalks, and other paved areas, the Company shall protect and preserve all trees, shrubs, palms, landscaping, etc., and restore such areas and all paved areas to their original sound conditions using construction techniques and materials that are the same as existing including replacing plants and trees with those of similar size and age. In the case of planted areas, the Company shall maintain the restoration Work until positive growth has been acknowledged in writing by the Contract Administrator.

All costs for such restoration and replacement work shall be included in the associated lines on the Bid Documents.

The Company shall not (except upon written consent from the property owner and Contract Administrator) enter or occupy with workers, tools, equipment or vehicles any land outside the permitted easements, right-of-ways, JEA property or the City of Jacksonville property.

1.15.21. QUALITY CONTROL AND QUALITY ASSURANCE

The Company shall provide Quality Control to ensure the Work is performed in accordance with the Contract. Quality Control shall be appropriate for the nature of the Work, and shall be conducted in a manner consistent with sound quality management and industrial engineering principles. The Company shall have only personnel trained in Quality Control techniques and experienced with the nature of the Work perform the Quality Control function.

JEA may perform Quality Assurance activities. Such activities, whether performed or not, do not in any way limit or reduce the Company's requirements. JEA may become aware of quality related problems during its performance of Quality Assurance, but has no obligation to notify the Company of its findings. The Company shall provide access to all areas of Work, including the Company's facilities, for JEA Quality Assurance personnel and JEA Representatives. JEA will conduct Quality Assurance activities so as not to excessively interfere with the Work, however, where JEA Quality Assurance personnel request specific actions of the Company, the Company shall comply with the request and agrees that such compliance is included as part of its Contract Price.

1.15.22. SAFETY AND PROTECTION PRECAUTIONS

The Company shall comply with all applicable federal, state and local laws, ordinances, all JEA procedures and policies including, but not limited to, JEA's Contractor Safety Management Process (available at JEA.com), and orders of any public body having jurisdiction for the safety of persons or protection of property. The Company understands and agrees that a violation of any provision of this Section e is grounds for an immediate termination of the Contract for default, with no requirement for JEA to provide Company with advanced notice and opportunity to cure. Additionally, the Company shall be responsible for all JEA damages associated with such termination.

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The Company shall only use those Subcontractors who have met JEA Safety Prequalification requirements in the JEA Contractor Safety Management Process. The Company shall ensure that Subcontractors and their personnel have all the necessary personal protective equipment and training needed to perform the Work safely.

The Company understands and agrees that JEA Representatives may stop Work at any time that JEA, at its sole discretion, considers the Company's Work to be unsafe or a risk to person or property, and to direct the Company to, at a minimum, perform as directed in such a way as to render the Work environment safe. The Company understands and agrees that it is responsible for paying all costs associated with providing a safe work environment including, but not limited to, any costs associated with any JEA directed safety improvements. The Company also understands and agrees that it is solely responsible for the safety of personnel and property associated with the Work, and that any actions taken by JEA to prevent harm to persons or damage to equipment does not, in any way, relieve the Company of this responsibility.

The Company Representative, or alternatively, the Company Supervisor, shall be designated as the Company's representative responsible for the prevention of accidents.

If the nature of the Work requires, the Company shall notify the police and fire departments as to its Work Location in order to ensure prompt response in an emergency.

1.15.23. SAFETY REPRESENTATION

The Company represents and warrants to JEA that it has the capacity to train and supervise its employees, Subcontractors and suppliers to ensure the Work complies with all safety requirements of the Contract Documents. The Company shall be responsible for executing the necessary safety training and supervision of its employees and Subcontractors, and acknowledges that JEA is not responsible for training or supervising the Company's employees, except when noted for the purpose of enforcing compliance with these safety requirements.

1.15.24. SALVAGE AND EXCESS MATERIALS AND EQUIPMENT PROVIDED BY JEA

The Company shall protect salvaged or salvageable equipment and material from loss and damage. The Company shall protect excess materials and equipment provided by JEA to the Company for use in the Work from loss and damage. The Company shall inventory, sort and return salvage and excess materials, and shall weigh conductors. The Company shall return salvage and excess materials and equipment to the appropriate JEA Service Center accompanied by the Contractor Material Returns Form, in accordance with the JEA's inspector and the instructions and authorization of the JEA's storeroom foreman.

1.15.25. SHIPPING - FOB DESTINATION

Items are purchased F.O.B. destination. The Company shall ensure the following:

- Pack and mark the shipment to comply with the Contract Documents; or in the absence of specifications in the Contract Documents, prepare the shipment in conformance with carrier requirements;
- Prepare and distribute commercial bills of lading;
- Deliver the shipment in good order and condition to the point of delivery specified in the Contract;
- Be responsible for any loss of and/or damage to the goods occurring before receipt of the shipment by JEA Representative at the delivery point specified in the Contract;
- Be responsible for obtaining any permits required for transportation to the installation site;
- Furnish a delivery schedule and designate the mode of delivering carrier; and
- Pay and bear all charges to the specified point of delivery.

1.15.26. STORAGE

With the approval of the JEA Engineer, a limited amount of temporary indoor storage space may be made available, but only for the equipment that must be protected from the weather. Equipment for which arrangements have been made for indoor storage shall be packed separately and the container clearly marked "For Indoor Storage." For equipment that will be stored indoors and that will require special storage precautions, the storage instructions shall be shown on the outside of each container, or in a durable envelope identified as containing storage instructions and attached to the container.

1.15.27. STORAGE OF EQUIPMENT

The Company shall be responsible for all storage of materials, equipment, vehicles, tools, and all other items associated with the Work. Such storage shall comply with applicable regulations appropriate for the items being stored to ensure suitable care for items and protection from theft, vandalism, or inappropriate use. The Company is solely responsible for the costs for such storage, unless otherwise indicated in the Contract Documents, and any costs associated with noncompliant storage including, but not limited to, loss and damage to items. In the event that JEA directs the Company to stop the Work, costs associated with storing equipment or materials will be compensated in accordance with the Contract Documents. The Company shall ensure that JEA Representatives have access to Work-related storage on an as needed basis during regular work hours and Overtime.

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1.15.28. STORM PREPAREDNESS

In the event of a Hurricane Warning, Tropical Storm Warning, or other large storm affecting the Work Location, the Company shall secure, or shall remove and store all equipment and materials at the Work Location including, but not limited to, cones, barricades, lights and signs. The Company shall begin taking such precautions as necessary to secure the Work Location upon official issuance of mandatory evacuation of the area of the Work Location and no later than 24 hours prior to predicted arrival of tropical storm or hurricane force winds, or when notified by a JEA Representative to do so. These activities are considered a regular part of the Work, regardless of the frequency they are required.

1.15.29. SUBSTITUTIONS

Whenever materials or equipment are specified or described in the Contract Documents by using the name of a proprietary item or the name of a particular supplier, the naming of the item is intended to establish the type, function and quality required.

Materials or equipment of other suppliers may be accepted by the JEA Engineer if sufficient information is submitted by the Company to allow the JEA Engineer to determine that the material or equipment proposed is equivalent or equal to that named.

The Company shall make written application to the JEA Engineer for acceptance thereof, certifying that the proposed substitute will perform adequately the functions and achieve the results called for by the general design, be similar and of equal substance to that specified and be suited to the same use as that specified.

The application shall state that the evaluation and acceptance of the proposed substitute will not prejudice the Company's completion of the Work within the time prescribed by the Contract, whether or not acceptance of the substitute for use in the Work will require a change in any of the Contract Documents (or in the provisions of any other Contract directly with JEA for Work on the Contract) to adapt the design to the proposed substitute and whether or not incorporation or use of the substitute in connection with the Work is subject to payment of any license fees, royalties, permits or any other costs.

All variations of the proposed substitute from that specified shall be identified in the application and available maintenance, repair and replacement service shall be indicated.

The application shall also contain an itemized estimate of all costs that will result directly or indirectly from acceptance of such substitute, including costs of redesign and claims of other Companies affected by the resulting change, all of which shall be considered by the JEA Engineer in evaluating the proposed substitute.

Requests for review of substitute items of material and equipment will not be accepted by the JEA Engineer from anyone other than the Company.

The JEA Engineer may require the Company to furnish, at the Company's expense, additional data about the proposed substitute.

If a specific means, method, technique, sequence or procedure of construction is indicated in or required by the Contract, the Company may furnish or utilize a substitute means, method, sequence, technique or procedure of construction acceptable to the JEA Engineer, if the Company submits sufficient information to allow the JEA Engineer to determine that the substitute proposed is equivalent to that indicated or required by the Contract.

The JEA Engineer will be allowed a reasonable time within which to evaluate each proposed substitute; such time shall not be deemed justification for an extension of the Company's time for completion of the Contract.

The JEA Engineer will be the sole judge of acceptability, and no substitute shall be ordered, installed or utilized without the JEA Engineer's prior written notice, which shall be evidenced by either a Change Order or an approved shop drawing.

JEA may require reimbursement for the costs associated with JEA's evaluation of substitutions.

JEA may require the Company to furnish, at the Company's expense, a special performance guarantee bonds or other surety with respect to any substitution.

1.15.30. TOOLS AND EQUIPMENT

All tools and equipment used in the performance of the Work shall be used as intended by the manufacturer and in accordance with manufacturer operating manuals and industry practices, whichever is more stringent. The Company shall ensure that all tools and equipment used in the performance of the Work shall be of the size and quality suitable for safe and efficient performance of the Work. If the Company-provided tools and equipment do not meet these requirements, or if in the sole opinion of JEA formed after considering relevant factors, the tools or equipment are inappropriate for performance of the Work, the Company agrees to remove the unacceptable tools and equipment and obtain tools and equipment JEA considers suitable. Such replacement shall be entirely at the Company's expense, and no change to time prescribed by the Contract will be allowed.

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The Company is responsible for furnishing and the security of any and all tools and equipment required to perform the Work.

1.15.31. CARE OF JEA CUSTOMERS

The Company agrees to provide excellent customer service throughout the execution of the Work during both scheduled Work hours and Overtime in the manner, as a minimum, as set forth below:

Customer Service Plan:
The Company shall submit a Customer Service Plan prior to mobilization and designate an individual to assume the duties of the Company's Customer Service Representative (CSR) as described herein.

The Company shall provide an after-hours emergency phone number to JEA.

The Company shall provide contact numbers for those individuals assigned to concerns arising during non-business hours and in the event of emergencies. The designated person(s) shall provide a cellular phone number as the main contact number, and one alternate number. The designated person(s) shall respond to JEA with proposed resolution within two hours of receiving a call from a JEA representative or customer. If the Company fails to respond within the designated time and it is thereby necessary for JEA to provide assistance, the Company shall be responsible for all costs incurred by JEA as a result of resolving the concern.

Upon JEA approval, the Company shall deliver fliers and/or door hangers provided by Project Outreach to all customers in an affected work area at least three days prior to each construction activity including, but not limited to, locates, TV/cleaning, soil borings, mobilization, etc. Upon JEA's request, the contractor will install JEA provided signage at a location chosen by the JEA project team. These signs will be removed by the contractor at the end of the project.

The Company shall notify affected customers prior to any planned water/electric outages, line flushing, valve simulations and driveway/curb construction, paving and road closures. The notification will be produced by the Company (unless notifications are provided by JEA) and approved by JEA Project Outreach.

Customer Concerns:
The CSR shall contact the JEA customer who has a concern by the end of the business day of when the concern was received from JEA Project Outreach. The Company shall contact Project Outreach within two business days to confirm that they have contacted the customer and assessed the concern.

The CSR shall provide JEA Project Outreach with concern evaluations, resolutions, and actions taken all within five business days of when the concern was received.

The CSR shall notify Project Outreach immediately after a concern has been resolved with specific resolution actions or an update of the resolution. Project Outreach will contact the customer following notification of resolution to confirm the resolution before Project Outreach closes the concern and prior to notifying the Company, the CSR, JEA Representatives and inspectors of resolution of the concern.

Within one business day of receiving a concern from a JEA customer, the Company shall notify JEA Project Outreach in writing of each customer concern reported directly to the Company's personnel by any JEA customer. Such notification shall include, as a minimum: the Company's name, date and time the concern was communicated to the Company, the name, address and phone numbers for the customer, the nature of their concern and any action that was taken or any action currently underway to resolve the concern. The CSR shall follow the customer concern procedures stated above.

If the Company fails to meet the problem resolution deadlines stated in this document in a manner that meets acceptable quality standards, JEA may make repairs or take other necessary actions to resolve the issue, which shall be at the Company's sole expense.

Duties of the Customer Service Representative (CSR)
The Company shall provide a Customer Service Representative for the Term of the Contract. The CSR's primary responsibilities shall include, but are not limited to the following:

Communication: Serve as the primary point of contact for customer concerns and information requests; report customer concerns to the JEA Project Manager and Project Outreach or other internal JEA resources and assist in resolution of issues; and meet with customers on site as needed to assess their concerns.

Planning: Conduct biweekly progress meetings with JEA Project Manager; conduct progress meetings with Project Outreach regularly and as needed to review any outstanding complaints and provide a timeframe/action plan for resolving them; review customer satisfaction targets and goals, measurements, documentation and project definition and assist with making improvements; conduct periodic customer service reviews during the course of the Work to assess and identify any items

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considered to be at risk or vulnerable in relationship to meeting JEA goals and objectives; and notify Project Outreach, in a timely manner, of change in scope or schedule.

Process Improvement: Work with JEA to identify process improvement opportunities that increase customer service and satisfaction; make recommendations to JEA to enhance and assist with JEA goals and objectives for customer service; and conduct a customer service review at the completion of the construction phase of a project, but prior to the restoration, or "punch list" phase, to assess customers' satisfaction with the handling of concerns and customers' overall response to the project.

Disruption of Utility Services: If the Company disrupts any utility services (water, sewer or electric, etc.) during performance of the Work, the Company shall return them to operation as soon as possible. No disruption to any utility service disruption shall exceed the end of the Company's normal work shift. No disruption to the customer's utility services shall exceed any 12-hour period. Should any of the customer's utility services be disrupted, for a period longer than 12 hours, the Company shall provide alternative arrangements for the customer, as determined by JEA, with no additional cost to JEA for these arrangements unless otherwise specified in the documents. The CSR shall immediately notify JEA Project Outreach (telephone 665-7500) of any service disruptions.

Restoration:
The Company shall restore, for no additional compensation, the landscaping of any properties affected by the Company's actions, directly or indirectly, (in the right-of-way not related to ongoing Work, or isolated Work in the right-of-way that would leave unrestored areas for undue periods of time subject to criticism) to its original state, within five calendar days from the time the area was disrupted. All other restoration required within the right-of-way shall be scheduled in the customary method for such construction and in accordance with any permit conditions.

The Company shall, at its own expense (unless otherwise specified in the documents), repair any irrigation systems damaged by the Company's Work within one day from the time the irrigation system was damaged. If this is not possible, the Company shall inform the customer of the damage and provide an estimated time for repair. In addition, the Company shall make adequate provisions for the customer to water and maintain his or her lawn.

The Company shall repair, at its own expense, any asphalt and concrete damaged by Company (in the right-of-way not related to ongoing Work, or isolated Work within the right-of-way that would leave unrestored areas for undue periods of time subject to residents/customer criticism) within five calendar days from the time the damage occurred. All other restoration required within the right-of-way shall be scheduled in the customary method for such construction and in accordance with any permit conditions.

Customer Concern Ratios:
Project Outreach's goal for customer concerns is to completely resolve all complaints within 10 business days of receiving a complaint. A formal customer concern shall be defined as a documented concern to JEA Project Outreach. The concern may be of a real or perceived problem that the customer has against the Company.

The JEA Project Manager or designee will notify the Company on a monthly basis of how many concerns were received by JEA's Project Outreach and the number of concerns yet to be resolved. JEA will immediately notify the Company when a concern has been opened and has not been a response to it within five business days. The Company shall contact Project Outreach and provide a written correction plan within five calendar days of receipt of the notice. If at any time the Company allows unresolved concerns to exceed the five business days without prior notification to Project Outreach and the customer concern ratio reaches 3.0 percent, the Company shall be required to appear in front of the Company Performance Review Board to explain the circumstances leading to the unresolved concern. The Company Performance Review Board will notify the Chief Procurement Officer of the board's decision and any recommended actions, which may include, but are not limited to, additional remedial action, termination of the Contract and/or suspension from JEA's Responsible Bidder's List in all categories for a period not to exceed one year.

If the Company fails to adhere to the customer service requirements stated herein, the Company's performance shall result in a required hearing before the Company Performance Review Board. The Company Performance Review Board will consist of three JEA directors. The hearing will evaluate the Company's remedial action plan and determine whether such plan will be effective. The Company Performance Review Board will present its recommendation to the Chief Procurement Officer and recommended actions that may include additional remedial actions, termination of the Contract and/or suspension from JEA's Responsible Bidder's List in all categories for a period not to exceed one year.

1.15.32. VIDEO/DIGITAL RECORDS

Prior to any alterations to the Work Location, the Company shall video record the entire Work Location. The Company shall provide original video recording to the Contract Administrator no later than 15 days after the date of the Notice to Proceed.

When required by the technical specifications, the Company shall provide a monthly video record (on DVD) of construction progress to the JEA Project Manager. If construction is being conducted in different localities, then video shall be taken at each

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Work Location. The JEA Project Manager reserves the right to select the views to be video recorded. DVD(s) shall be labeled with record of date taken, JEA's assigned project tracking number, and a brief description of times and activity covered in the video.

The Company shall take the progress video(s) between the 20th and 25th day of each month and submit the video(s) to the JEA Project Manager before the end of the 27th day of each month. If Company fails to submit the video(s) to the JEA Project Manager before the 28th day of each month, JEA reserves the right to have the video tape(s) taken by an independent Recording Company at the Company's expense.

In addition, the Company shall provide unedited video(s) with superimposed timer and vocal commentary of the preconstruction and post construction conditions. Video(s) shall be DVD format and include both sides of the right-of-way and record close attention to paved and unpaved driveways and walkways; conditions of lawns, shrubs, flowers, flower beds, and trees; conditions of pavement, fences, signs, planters and any other item within the area of the Work or adjacent right-of-way. The video(s) shall become a part of the Contract Administrator's and JEA Project Manager's permanent job records. The video(s) shall be indexed using the timer for locations by stationing and by street intersections.

The video(s) shall include each waterway crossing. An upstream and downstream view of each bank at the point of crossing shall be taken recording the inertial zone and/or mean high water level. Also, a view of the line route shall be taken from each bank of the crossing and elsewhere as the JEA Project Manager may direct. Construction shall not begin until video recordings are approved by the JEA Project Manager. The video(s) shall depict wet conditions of the Work Location and surrounding areas whenever possible.

1.15.33. WEATHER PROTECTION

The Company shall provide proper facilities, take all necessary precautions and assume the entire cost for protecting the Work against weather conditions and for handling all storm, flood and ground water, sewage, or other seepage, that may be encountered during the performance of the Contract. The Company shall provide for such contingencies and for carrying on the Work in freezing weather by methods that meet with the approval of the JEA Engineer. If the Company fails to provide such protection, or in the event of an emergency, JEA may provide such protection at the Company's expense.

1.15.34. WORK INFORMATION

In the event the Company requires additional information regarding the scope, technical specifications, Work Locations, personnel requirements, or other information pertinent to the Work or Contract, the Company shall request such information or clarifications from the Contract Administrator in writing. Within the bounds of the JEA Representative's authority, JEA Representatives may provide requested information to the Company.

1.15.35. WORK LOCATION CLEANLINESS

The Company shall, at all times, keep the Work Location free from an accumulation of waste materials or rubbish caused by its operations. At the completion of the Work, the Company shall remove all waste materials and any rubbish from and about the project, as well as any tools, construction equipment, machinery and surplus materials. If the Company fails to clean up at the completion of the Work, JEA may do so and charge the cost thereof to the Company.

1.15.36. WORKMANSHIP

The Company shall perform all Work in a safe and professional manner, so as to render a neat and uniform appearance. The Company shall handle all material in such a way as to preserve its finish and protective coatings from damage. General arrangement shall be in accordance with JEA Distribution Construction Standards and shall be satisfactory to the Contract Administrator.

1.15.37. COMPETENT PERFORMANCE OF THE WORK

The Company represents that it will conduct the Work in a manner and with sufficient labor, materials and equipment necessary to affect a diligent pursuance of the Work through Final Completion. If, in the sole opinion of JEA, the Company fails to perform the Work as represented, JEA may, at its sole discretion, take charge of the Work and furnish and provide the labor, materials, and equipment necessary to complete the Work as planned within the required time if JEA deems the organization of the Company or its management, or the manner in which Company is performing the Work, to be manifestly incompetent or inadequate to complete the Work as specified. The Company shall pay JEA for the cost of all such Work completed by JEA.

1.15.38. COMPLIANCE WITH REFERENCED SPECIFICATIONS

All Work, materials, systems or operations specified by reference to standard trade specifications or to manufacturer's published specifications shall comply with the requirements of the referenced specifications, except as modified by the requirements of the Contract Documents. The referenced specification used shall be the latest published edition that is in effect on the effective date of this Contract unless a particular edition is specified. In case of a conflict, the specifications that contain the more stringent requirements will govern.

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1.15.39. COMPANY'S KNOWLEDGE OF THE WORK

The Company represents that its total Bid Price and the detailed schedule for the execution of the Work are based on its own knowledge and judgment of the conditions and hazards involved, and not upon any representation of JEA. JEA assumes no responsibility for any understanding or representation made by any of its representatives during or prior to execution of the Contract unless such understandings or representations are expressly stated in the Contract and the Contract expressly provides that JEA assumes the responsibility.

1.15.40. CONTRACTOR'S PLANS AND SPECIFICATIONS

All plans and specifications that the Contractor provides for any building, structure, system or equipment where required by federal, state, local laws and regulation as part of the Work shall bear the seal of a professional engineer duly registered in the State of Florida at no cost to JEA.

1.15.41. DAMAGED MATERIALS OR EQUIPMENT

The Company shall report to the Contract Administrator any materials issued by JEA or delivered by the JEA material supplier and received by the Company that are later found to be faulty, damaged or discrepant in some manner. The Contract Administrator will obtain appropriate replacement materials upon written notification from the Contract Administrator. The Company shall not, under any circumstances, make a material replacement without written approval of the Contract Administrator.

The Company understands and agrees that damage to material and discrepancy of material is an expected part of performing the Work, and as such, the Company agrees it shall be solely responsible for any additional costs incurred as a result of damaged or discrepant materials, including, but not limited to, the costs to keep or get the Work on the Approved Schedule.

JEA will bill the Company for materials or equipment that are damaged while in the Company's custody. In such a case, the Company shall be charged the current JEA cost plus an inventory handling fee.

1.15.42. FREE AND CLEAR TITLE

The Company warrants that it has title to all equipment and materials furnished under the Contract where title will pass to JEA, and that the equipment and materials passed to JEA are free and clear of all liens, claims, security interests and encumbrances.

1.15.43. INSPECTIONS AND TESTING

JEA, or its designated representatives, will perform inspections at the Company facilities during normal business hours and in a manner that minimizes disruption to the normal day-to-day work activities of the Company. Company shall provide safe and proper facilities for inspection access and observation of the Work and also for any inspection or testing by others.

If the Company has covered or concealed any Work from inspection in any way that the JEA Representative has not specifically requested prior to the JEA Representative’s inspection, or if the JEA Representative considers it necessary or advisable that covered Work be inspected or tested by others, the Company, at the JEA Representative's request, shall uncover, expose or otherwise make available the portion of the Work in question for observation, inspection or testing as the JEA Representative may require. The Company shall furnish all necessary labor, material and equipment to make such Work available.

If such Work is defective, the Company shall bear all expenses of uncovering, exposure, observation, inspection and testing and of satisfactory reconstruction, including, but not limited to, compensation for additional professional services required by JEA, and no change in Contract Time will be considered as a result of the foregoing.

If such Work is not defective, JEA will reimburse the Company for actual time, material, and equipment costs for uncovering and reconstruction of the portion of the Work in question. JEA may also, at its sole discretion, grant the Company an extension of the Contract Time directly attributable to such uncovering, exposure, observation, inspection, testing and reconstruction.

All materials and equipment used in the construction of the Contract shall be subject to adequate inspection and testing in accordance with accepted standards. The Company shall select the laboratory or inspection agency for making all tests required by the specifications, and shall pay for this laboratory service direct, as a part of this Contract.

The Company shall pay for all required testing of materials and equipment. Two copies of each test showing certification of each test shall be furnished to the JEA Engineer immediately after such test has been made and with the exception of concrete, prior to delivery of the materials or equipment tested to the Work Location. JEA will not accept the materials or equipment until tests have been approved.

Materials of construction, particularly those upon which the strength and durability of the structure may depend, shall be subject to inspection and testing to establish conformance with specifications and suitability for uses intended. Test requirements for all materials are set out in the detailed specifications for that particular material. All materials and equipment prior to being

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incorporated in the Work, and required by the JEA Engineer to be tested, shall be tested for conformance with contractual requirements. Standard items of a uniform nature may be accepted on the manufacturer's certification. Where specific performance and/or quality is referred to, it is the Company's responsibility to have the necessary tests performed by qualified persons to show that the contractual requirements are being met except those tests named in the Contact Documents to be performed by JEA. Certified test results shall be submitted promptly in quadruplicate to the JEA Engineer for review. All tests shall be performed in accordance with referenced standards. Where no reference is made, tests shall be performed in accordance with the methods prescribed by the American Society for Testing and Materials or such other organization as would be applicable.

The Company shall pay for any retests resulting from its failure to provide Work that passes required tests.

The JEA Engineer may appoint JEA Inspectors to inspect any and all materials and Work. Such inspection may extend to any or all parts of the Work and to the preparation and manufacture of the materials to be used. The JEA Inspectors shall not be authorized to alter, revoke, enlarge or relax the provisions of the Contract, nor will they be authorized to approve or accept any portion of the completed Work, nor to issue instructions contrary to the Contract. The JEA Inspector shall inform the JEA Engineer of the progress of the Work and the manner in which it is being done, and notify the Company of any infringement upon the Contract Documents. The JEA Inspector will have the authority to reject defective materials or to suspend any Work that is being improperly done subject to the final decision of the JEA Engineer.

1.15.44. INTERFERENCE WITH EXISTING UTILITIES

The Company acknowledges and agrees that there is a possibility that existing JEA or other utility facilities may cross and/or lie parallel to excavations in the area where Work will occur. Although JEA may indicate recorded obstacles on the drawings, it does not warrant that other subsurface obstacles do not exist. The Company shall be responsible for verifying the data furnished by JEA and for fully investigating and locating additional obstructions including every type below, on or above the ground. The Company should regard these impediments as normal to construction. All costs for performing such work shall not be paid for separately, but shall be included in the Company's costs on the Bid Document.

The Company shall comply with all requirements of the Sunshine State One-Call program.

In the event the Company encounters an unidentified utility during performance of the Work, the Company shall promptly cease Work in the affected area and shall immediately notify the JEA Representative in writing. JEA will investigate the area and propose remedial actions in accordance with the provisions stated herein in "Changes to the Work".

The Company shall work in cooperation with JEA and representatives of existing utilities to plan and coordinate putting new Work into service so as not to interfere with the operation of the existing utilities. Such plans shall be adhered to unless deviations therefrom are expressly permitted in writing by the Contract Administrator.

The Company shall at all times conduct the Work in a manner that interferes as little as possible with the existing utilities. Any cables exposed during construction, whether energized or not, must be handled and protected as if they are energized. The Company shall so conduct its operations and maintain the Work in such condition that adequate drainage shall be in effect at all times. The Company shall not obstruct existing gutters, ditches and other runoff facilities. When working in the vicinity of overhead lines, the Company shall request line rubber protection from JEA at least 10 days in advance of performing the work.

The Company shall be solely responsible for any damages, interferences, and interruptions of service caused to any utility's assets and services including water, sewer, electric, telephone, gas, cable, and other utility services, that result from the Company's failure to fulfill the above stated requirements.

In the event the Company damages an existing utility, the Company shall immediately notify the property owner, the owner of the damaged utility and the JEA Representative. Should the damage cause an interruption of service, the Company shall be responsible for restoring service as soon as possible; however, the Company shall not make repairs, other than any required to restore safe conditions, without the approval of the property owner, or the owner of the damaged utility. The Company shall be responsible for coordinating any repair effort, and any associated costs should the utility owner or a licensed repair contractor be required to make the repair. JEA reserves the right to deduct any unsettled claim amount from Company's invoices until such time as the claim is satisfactorily resolved.

1.15.45. INTERFERENCE WITH OTHER JEA WORK OR OTHER COMPANIES

The Company shall perform the Work in a manner that minimizes the interference with other JEA work, City of Jacksonville work, or with work performed by other companies. The Company shall coordinate the Work with other persons and companies employed by JEA. If a difference of opinion regarding scheduling or coordination of the Work arises between the Company and another JEA contractor(s) performing work at the Work Location, JEA may arbitrate the matter. In such cases where JEA makes a decision regarding the scheduling or coordination of the work, the Company agrees to fully abide by JEA's decision. Unless otherwise agreed in writing by JEA, JEA will not be responsible for additional costs.

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Any claims arising against the Company from damages to other companies' work, equipment, machinery, tools or other property shall be settled directly between the Company and the other companies involved. JEA will not, in any way, be a party to arbitrating or mediating any such disputes, nor shall JEA be responsible for any costs associated with such disputes.

1.15.46. INTERFERENCE WITH RAILROADS

The Company shall not build across, into, over or under, either temporarily or permanently, any portion of a railway or railway right-of-way without first obtaining all required permits. If the Company's operations render any railroad unsafe, the Company shall immediately notify the Contract Administrator and the railroad owner and take appropriate actions and such temporary safeguards as required to protect life, limb, and property, and to maintain orderly traffic.

The Company shall procure all railroad permits required for the Work beyond those procured by JEA and the costs for such permits shall be included in the Bid Documents. All costs associated with railroad fees for railroad flagmen, watchouts, inspectors, supervisors, any additional training of Company's employees that is required by applicable laws, rules and regulations when performing Work in association with railways, any certifications required for successful completion of the Work and all other associated costs shall be included in the Bid Document.

1.15.47. MATERIAL DELIVERED TO COMPANY SITES

The Company shall be responsible for all unloading, handling and storage of Work-related materials at the Work Location. Where the Company is to use a JEA-designated supplier to deliver materials to the Work Location, JEA will provide the Company, upon request, with contact names and information, along with required material lead-times. The Company is solely responsible for taking into account required material lead-times when planning its performance of the Work, and for communication and coordination of materials delivered to the Work Location by JEA suppliers. The Company shall be responsible for any additional delivery costs charged by the JEA material supplier for any Company delays.

If, for any reason, the Company is unable to receive, unload, handle or store materials it has ordered or caused to be ordered, the Company shall be responsible for any and all additional costs incurred by JEA for unloading, handling, storing, or additional shipping costs. In such cases where JEA is receiving items when the Company is unable to, such receipt does not indicate JEA's Acceptance of items.

1.15.48. OBLIGATIONS OF THE COMPANY

The Company shall provide everything necessary to successfully complete the Work except the materials and services specifically stated in the Contract to be provided by JEA. No payments, other than those shown in the Bid Documents, will be made to the Company for performance of any requirements of the Contract Documents. The Company shall perform all Work in accordance with the Contract Documents and the applicable JEA standards manuals, safety manuals, policies, accepted commercial work practices, local, state, and federal, rules regulations and laws which may be amended from time to time. The Company shall provide all permits, certifications, insurances, and bonds necessary or required by good practice, except where specifically stated in the Contract to be provided by JEA.

The Company's personnel shall perform all Work in a professional, efficient, and competent manner. The Company is obligated to provide personnel possessing the skills, certifications, licenses, training, tools, demeanor, motivation, and attitude to successfully complete the Work. The Company is obligated to remove individuals from performing Work under this Contract when the Company recognizes an individual to not be working in a manner consistent with the requirements of this Contract, or when JEA notifies the Company that JEA has determined an individual or group of individuals to not be working in a manner consistent with the requirements of this Contract. The Company is obligated to ensure that their officers and executives interact with JEA, JEA customers, whether direct or indirect customers of JEA, with the utmost level of professionalism and integrity.

In the event the Contractor chooses to use Subcontractors, the Contractor is obligated to provide Subcontractors possessing the skills, certifications, licenses, training, tools, demeanor, motivation and attitude to successfully perform the work for which they are subcontracted. The Contractor is obligated to remove Subcontractors from performing Work under this Contract when the Contractor recognizes that a Subcontractor is failing to work in a manner consistent with the requirements of this Contract, or when JEA notifies the Contractor that JEA has determined a Subcontractor is failing to work in a manner consistent with the requirements of this Contract.

The Contractor is obligated to ensure that sufficient supervision of the Work is provided. This includes ensuring that the Contractor Supervisor is at the Work Location when Work is being performed.

The Contractor shall bear sole responsibility for the efficiency, adequacy and safety of the performance of the Work, including temporary Work and facilities, until Acceptance. The Contractor shall be solely responsible for any loss or damage to materials, tools, labor, and equipment used during the performance of, or in connection with, the Work. Any JEA comments or approval regarding the Contractor's performance, materials, working force, or equipment will not relieve the Contractor of any

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responsibility.

1.15.49. EMERGENCY PROCEDURES

In emergencies affecting the safety of persons, the Work or property at the Work Location or any other area adjacent thereto, the Company, without special instructions or authorization from JEA Representatives, is obligated to act to its best ability to prevent threatened damage, injury or loss to the Work, any persons, or property. The Company shall give the Contract Administrator prompt written notice describing the emergency, its cause, actions taken, injuries and casualties, property damage, other damages, and impact on continued performance under this Contract.

1.15.50. LAW ENFORCEMENT/SECURITY

Onsite law enforcement shall be provided by the Company to ensure safe working conditions for site personnel. Any work activities performed at night shall have onsite law enforcement present. Company shall submit with corresponding pay application verification of the number of hours of law enforcement utilized during each pay period, including any associated fees. Company agrees to invoice JEA for law enforcement at its cost with no markup.

1.15.51. ENCROACHMENTS ON RIGHTS OR PROPERTY

The Company shall be solely responsible for any encroachments on public property or on the rights or property of adjoining property owners to the Work Location, and shall hold JEA harmless because of any encroachments that may result because of the Company's improper layout. In this regard, the Company shall, without extra cost to JEA, remove any Work or portion of any Work that encroaches on the property other than that of the Work Location, or that is built beyond legal building or setback limits. The Company shall rebuild the affected Work or portion of Work at the proper location and in full compliance with the Contract Documents.

1.15.52. REMOVAL OF WORK

The Company shall not sell, assign, mortgage, hypothecate or remove Work that has been delivered to or installed at the Work Location.

1.15.53. PROTECTION OF THE ENVIRONMENT

The Company and its Subcontractors shall comply with all applicable laws, rules and regulations including, but not limited to, all Environmental Regulations.

A. Asbestos, Lead, or Toxic Mold Notification: Asbestos, Lead, or Toxic Mold may be present at the Work Location. The Company shall notify the Contract Administrator immediately upon discovery of asbestos, lead, toxic mold. The Company shall not disturb or remove known or discovered asbestos, lead, or toxic mold unless directed by the JEA Representative.

B. Hazardous Materials: The Company shall bear full responsibility including, but not limited to, payment and liability for the transportation, use, recycling, and disposal of any Hazardous Materials under the Company's control during the performance of the Work. Disposal or recycling of Hazardous Materials shall only be performed at JEA approved facilities. The Company shall provide JEA with appropriate documentation showing proper disposal or recycling of its Hazardous Materials.

   The Company shall notify the Contract Administrator in writing of the type, quantity and disposal or recycling method of any hazardous material used during the performance of the Work. The Company shall be solely responsible for the use and disposal or recycling of any such materials. The Company shall submit cleanup procedures to the JEA Representative for review and written approval prior to the use of the hazardous material. In the event that a hazardous material escapes into the environment, the Company shall immediately notify the Contract Administrator in writing of the occurrence and the actions taken. In the event that the Company encounters hazardous materials in the course of construction, the Company shall immediately notify the Contract Administrator verbally, with a written notification to follow. The Contract Administrator shall arrange for disposal by JEA.

   JEA has identified and labeled equipment known to contain PCBs. JEA will remove and transport any equipment so identified. The Company shall not remove or transport any equipment containing PCBs. The Company shall immediately notify the JEA Representative of any questionable or unmarked equipment, and the JEA Representative will arrange for testing and identification.

C. Waste Management: The Company will be solely responsible for the proper management of all waste material, including but not limited to, paints, lubricants, fuels, solvents, drilling mud and materials, construction and demolition debris, used oil and oily waste, land clearing debris, universal waste (mercury containing lamps and devices, batteries, etc.) and other chemicals and hazardous materials used in connection with or generated during the Work, except as specified above. The Company will provide proper containers for waste materials and comply with all applicable laws, rules and

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regulations in their disposal or recycling. The Company will dispose of or recycle all empty containers off-site as soon as possible.

D. Wetlands: The Company understands and agrees that the Work Location may include wetlands or other environmentally sensitive areas. The Company shall not enter these areas during the performance of its Work, unless specifically authorized by the Contract Administrator and appropriate state and federal permits have been obtained.

E. Wildlife: The Company and/or Subcontractor's employees shall not endanger wildlife species or domestic animals of any kind.

F. Violation of Environmental Laws and Permits: The Company shall immediately cease any activity that causes or results in a violation of JEA's or Company's environmental permits or federal, state and local laws and regulations. Such violation shall immediately be reported to the Contract Administrator verbally, with written notification to follow. All additional costs due to the Company's noncompliance with the applicable environmental permits or Environmental Regulations shall be paid by the Company.

1.16. VENDOR PERFORMANCE EVALUATION

1.16.1. VENDOR PERFORMANCE EVALUATION USE OF VENDOR PERFORMANCE EVALUATION SCORECARDS

JEA may evaluate the Company's performance using the evaluation criteria shown on the vendor scorecard available online at JEA.com.

Scores for all metrics shown on the evaluation range from a low of 1, meaning significantly deficient performance, to a high of 5, meaning exceptionally good performance. The Company's performance shall be classified as Top Performance, Acceptable Performance, or Unacceptable Performance, as defined herein. The evaluator will be a designated JEA employee. The evaluator's supervisor and the Chief Purchasing Officer will review deficient performance letters and Unacceptable Performance scorecards, as described below, prior to issuance. When evaluating the Company's performance, JEA will consider the performance of the Company's Subcontractors and suppliers, as part of the Company's performance.

Frequency of Evaluations

JEA may conduct performance evaluations and prepare scorecards in accordance with the procedures described herein at any time during performance of the Work or soon after the completion of the Work. JEA may conduct one or more evaluations determined solely at the discretion of JEA.

Unacceptable Performance

If at any time, JEA determines, using the criteria described on the scorecard, that the performance of the Company is Unacceptable, the Contract Administrator and Chief Procurement Officer or his designated alternate will notify the Company of such in a letter. The Company shall have 10 days to respond to the Contract Administrator. Such response shall include, and preferably be delivered in-person by an officer of the Company, the specific actions that the Company will take to bring the Company's performance up to at least Acceptable Performance.

Within 30 days from date of the first Unacceptable Performance letter, the Contract Administrator and Chief Purchasing Officer or his designated alternate will notify the Company by letter as to whether its performance, as determined solely by JEA, is meeting expectations, or is continuing to be Unacceptable. If the Company's performance is described in the letter as meeting expectations, no further remedial action is required by the Company, as long as Company's performance continues to be Acceptable.

If the Company's performance as described in the letter continues to be Unacceptable, or is inconsistently Acceptable, then the Company shall have 15 days from date of second letter to demonstrate solely through its performance of the Work, that it has achieved Acceptable Performance. At the end of the 15-day period, JEA will prepare a scorecard documenting the Company's performance from the start of Work, or date of most recent scorecard, whichever is latest, and giving due consideration to improvements the Company has made in its performance, or has failed to make. If the scorecard shows Company's performance is Acceptable, then no further remedial action is required by Company as long as Company's performance remains Acceptable. If the scorecard shows the Company's performance is Unacceptable, JEA will take such actions as it deems appropriate including, but not limited to, terminating the Contract for breach, suspending the Company from bidding on any JEA related solicitations, and other remedies available in the JEA Purchasing Code and in law. Such action does not relieve the Company of its obligations under the Contract, nor does it preclude an earlier termination.

In the event that the Contract Term or the remaining Term of the Contract does not allow for the completion of the deficient performance notification cycles described above for those in danger of receiving an Unacceptable Performance scorecard, JEA may choose to accelerate these cycles at its sole discretion.

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If the Company receives five or more letters of deficiency within any 12 month period, then JEA will prepare a scorecard describing the deficiencies and the Company's performance will be scored as Unacceptable.

Acceptable Performance

JEA expects the Company's performance to be at a minimum Acceptable.

Disputes

In the event that the Company wants to dispute the results of its scorecard performance evaluation, the Company must submit a letter to the Chief Procurement Officer supplying supplemental information that it believes JEA failed to take into account when preparing the scorecard. Such letter, along with supplemental information, must be submitted no later than 10 days following the Company's receipt of the scorecard. If the Chief Procurement Officer decides to change the scorecard, the Company will be notified and a revised scorecard will be prepared, with a copy issued to the Company. If the Chief Procurement Officer decides that no change is warranted, the decision of the Chief Procurement Officer is final. If the Company is to be suspended from consideration for future Award of any contracts, the Company may appeal to the Procurement Appeals Board as per JEA Procurement Code.

Public Records

There can be no expectation of confidentiality of performance-related data in that all performance-related data is subject to disclosure pursuant to Florida Public Records Laws. All scorecards are the property of JEA.

1.17. MISCELLANEOUS PROVISIONS

1.17.1. AMBIGUOUS CONTRACT PROVISIONS

The parties agree that this Contract has been the subject of meaningful analysis and/or discussions of the specifications, terms and conditions contained in this Contract. Therefore, doubtful or ambiguous provisions, if any, contained in this Contract will not be construed against the party who physically prepared this Contract.

1.17.2. APPLICABLE STATE LAW; VENUE; SEVERABILITY

The rights, obligations and remedies of the parties as specified under the Contract will be interpreted and governed in all respects exclusively by the laws of the State of Florida without giving effect to the principles of conflicts of laws thereof. Should any provision of the Contract be determined by the courts to be illegal or in conflict with any law of the State of Florida, the validity of the remaining provisions will not be impaired. Litigation involving this Contract or any provision thereof shall take place in the State or Federal Courts located exclusively in Jacksonville, Duval County, Florida.

1.17.3. CHANGE IN OWNERSHIP OF COMPANY

The Company agrees to cause any entity that shall acquire ownership of Company to assume this Contract and all of Company's obligations hereunder.

1.17.4. CUMULATIVE REMEDIES

Except as otherwise expressly provided in this Contract, all remedies provided for in this Contract shall be cumulative and in addition to and not in lieu of any other remedies available to either party at law, in equity or otherwise.

1.17.5. ENTIRE AGREEMENT

This Contract constitutes the entire agreement between the parties. No statement, representation, writing, understanding, or agreement made by either party, or any representative of either party, which are not expressed herein shall be binding. All changes to, additions to, modifications of, or amendment to this Contract, or any of the terms, provisions and conditions hereof, shall be binding only when in writing and signed by the authorized officer, agent or representative of each of the parties hereto.

1.17.6. EXPANDED DEFINITIONS

Unless otherwise specified, words importing the singular include the plural and vice versa and words importing gender include all genders. The term "including" means "including without limitation", and the terms "include", "includes" and "included" have similar meanings. Any reference in this Contract to any other agreement is deemed to include a reference to that other agreement, as amended, supplemented or restated from time to time. Any reference in the Contract to "all applicable laws, rules and regulations" means all federal, state and local laws, rules, regulations, ordinances, statutes, codes and practices.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

1.17.7. HEADINGS

Headings appearing herein are inserted for convenience or reference only and shall in no way be construed to be interpretations of text.

1.17.8. LANGUAGE AND MEASUREMENTS

All communication between the Company and JEA, including all documents, notes on drawings, and submissions required under the Contract, will be in the English language. Unless otherwise specified in the Contract, the US System of Measurements shall be used for quantity measurement. All instrumentation and equipment will be calibrated in US System of Measures.

1.17.9. MEETINGS AND PUBLIC HEARINGS

The Company will, upon request by JEA, attend all meetings and public hearings as required, in any capacity, as directed by JEA.

1.17.10. NONEXCLUSIVE

Notwithstanding anything contained herein that may appear to be the contrary, this Contract is "non-exclusive" and JEA reserves the right, in its sole discretion, to retain other companies to perform the Work, and/or JEA may self- perform the Work itself.

1.17.11. RELATIONSHIP OF THE PARTIES

The Company agrees that it shall perform the Work as an independent contractor and that it does not (a) have the power or authority to bind JEA or to assume or create any obligation or responsibility, express or implied, on JEA's part or in JEA's name, except as may be authorized by JEA under a separate written document, or (b) represent to any person or entity that it has such power or authority except as may be authorized by JEA under a separate written document.

1.17.12. SELF HELP

Within three (3) business days after being notified by JEA in writing of defective work, unacceptable work or failure to perform any portion of the services required by this Agreement, if the Company fails to correct such work or perform such services, JEA may cause the unacceptable or defective work to be corrected or perform the services. If JEA undertakes to correct the work or perform the services, JEA shall be entitled to set off against and deduct from any monies due, or which may become due to the Company, the reasonable cost incurred by JEA. If the corrective work or services cannot reasonably be completed within such three (3) business day period, and the Company immediately begins corrective work or services, and JEA reasonably determines that the Company is diligently pursing completion of such corrective work or Services, JEA agrees to allow the Company to complete correction of the defective or unacceptable work or perform services within a reasonable period of time.

All costs and expenses incurred by JEA pursuant to this Paragraph shall be deducted by JEA from monies due, or which may become due, to the Company for performance of the Services and its obligations herein.

The provision of this Paragraph are cumulative to all other provisions of the Agreement and it is not intended that any deductions in payment taken pursuant to this Paragraph shall diminish or waive JEA’s right to declare the Company in default in accordance with applicable provisions of the Agreement or to exercise any other right or remedy available to JEA

1.17.13. SUBCONTRACTING OR ASSIGNING OF CONTRACT

Each party agrees that it shall not subcontract, assign, delegate, or otherwise dispose of the Contract, the duties to be performed under the Contract, or the monies to become due under the Contract without the other party's prior written consent.

The assignment of the Contract will not relieve either of the parties of any of its obligations until such obligations have been assumed in writing by the assignee. If the Contract is assigned by either of the parties, it will be binding upon and will inure to the benefit of the permitted assignee. The Company shall be liable for all acts and omissions of its assignee or it’s Subcontractor.

In the event the Company obtains JEA approval to use Subcontractors, the Company is obligated to provide Subcontractors possessing the skills, certifications, registrations, licenses, training, tools, demeanor, motivation and attitude to successfully perform the work for which they are subcontracted. The Company is obligated to remove Subcontractors from performing Work under this Contract when the Company recognizes that a Subcontractor is failing to work in a manner consistent with the requirements of this Contract, or when JEA notifies the Company that JEA has determined a Subcontractor is failing to work in a manner consistent with the requirements of this Contract.

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1.17.14. SURVIVAL

The obligations of JEA and the Company under this Contract that are not, by the express terms of this Contract, to be performed fully during the Term, shall survive the termination of this Contract.

1.17.15. TIME AND DATE

Unless otherwise specified, references to time of day or date mean the local time or date in Jacksonville, FL. If under this Contract any payment or calculation is to be made, or any other action is to be taken, on or as of a day that is not a regular business day for JEA, that payment or calculation is to be made, and that other action is to be taken, as applicable, on or as of the next day that is a regular business day. Where reference is made to day or days, it means calendar days. Where reference is made to workday, workdays, business day, or business days, it means regular working days for JEA Procurement.

1.17.16. TIME OF ESSENCE

For every material requirement of this Contract, time is of the essence.

1.17.17. WAIVER OF CLAIMS

A delay or omission by JEA to exercise any right or power under this Contract shall not be construed to be a waiver thereof. A waiver by JEA under this Contract shall not be effective unless it is in writing and signed by the party granting the waiver. A waiver by a party of a right under or breach of, this Contract shall not be construed to operate as a waiver of any other or successive rights under, or breaches of, this Contract.

The Company's obligations to perform and complete the Work in accordance with the Contract shall be absolute. None of the following will constitute a waiver of any of JEA's rights under the Contract: approval of payments, including final payment; Certificate of Contract Completion; any use of the Work by JEA; nor any correction of faulty or defective work by JEA.

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APPENDIX H
JEA PAYMENT AND PERFORMANCE BONDS

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JEA CONTRACT NUMBER XXXXX

SURETY BOND NUMBER _____

PERFORMANCE BOND

As to the Contractor/Principal:

Name: _____

Telephone: (904)

As to the Surety:_____

Name:_____

Principal Business Address:_____

Telephone: ( )_____

As to the Owner of the Property/Contracting Public Entity:

Name: JEA, 21 W. Church St., Jacksonville, FL 32202

Telephone: (904) 665-6000

Description of project including address and description of improvements:
"Solicitation name and Number"

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JEA

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS, that_____, as Principal, (hereinafter called "Contractor"), and_____, a corporation organized and existing under the laws of the State of_____and duly authorized to conduct and carry on a general surety business in the State of Florida, as Surety (hereinafter called "Surety"), are each held and firmly bonded unto JEA, a body politic and corporate, in Duval County, Florida, as Obligee (hereinafter called "JEA"), in the sum of _____ **and 00/100 Dollars ($_____.__)**, lawful money of the United States of America, for the payment whereof Contractor and Surety bind themselves, their respective heirs, executors, administrators, legal representatives, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, Contractor has by written agreement dated the _____ day of _____ _____, 2016, entered into a contract with JEA (Contract #_____) for **"Soliciation Name"** pursuant to IFB #_____; all of said work to be done in the time and manner and in strict accordance with any advertisement for bids for said work and done in strict compliance with the drawings, plans and specifications for said work and requirements of JEA proposal and award therefor and of the contract and all documents included as a part of the contract (hereinafter referred to collectively as the "Contract"), all of which are, by this reference, made a part hereof to the same extent as if fully set out herein.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that, if Contractor shall: (1) provide JEA with a certified copy of the recorded bond before commencing the work (or before recommencing the work after a default or abandonment; and (2) promptly and faithfully perform the construction work and other work in the time and manner prescribed in said Contract, which is made a part of this Bond, by reference, in strict compliance with the Contract requirements; and (3) perform the guarantee and maintenance of all work and materials furnished under the Contract for the time specified in the Contract; and (4) pay JEA all losses, delay and disruption damages and all other damages, expenses, costs, statutory attorney's fees, including appellate proceedings, that JEA sustains because of a default by Contractor under the Contract; then this Bond shall be void; otherwise it shall remain in full force and effect, both in equity and in law, in accordance with the laws and statutes of the State of Florida.

PROVIDED, that the Surety hereby waives notice of any alteration or extension of time made by JEA, and any changes in or under the Contract and compliance or noncompliance with any formalities connected with the Contract or the changes does not affect Surety's obligation under this bond.

PROVIDED further, that whenever Contractor shall be declared by JEA to be in default under the Contract, JEA having performed JEA's obligations thereunder, the Surety shall, at JEA's sole option, take one (1) of the following actions:

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(1) Within a reasonable time, but in no event later than thirty (30) days, from JEA's written notice of termination for default, arrange for Contractor with JEA's consent, which shall not be unreasonably withheld, to complete the Contract and the Surety shall pay JEA all losses, delay and disruption damages and all other damages, expenses, costs and statutory attorney's fees, including appellate proceedings, that JEA sustains because of a default by the Contractor under the Contract; or

(2) (A) Within a reasonable time, but in no event longer than sixty (60) days after JEA's written notice of termination for default, award a contract to a completion contractor and issue notice to proceed. Surety shall obtain a bid or bids for completing the Contract in accordance with its terms and conditions, and upon determination by Surety of the lowest responsible qualified bidder, award a contract; (B) alternatively, JEA may elect, to have the Surety determine jointly with JEA the lowest responsible qualified bidder, to have the Surety arrange for a contract between such bidder and JEA, and for the Surety to make available as Work progresses sufficient funds to pay the cost of completion less the balance of the Contract price (even though there should be a default or a succession of defaults under the contract or contracts of completion arranged under this paragraph). The term "balance of the Contract price," as used in this Bond, shall mean the total amount payable by JEA to Contractor under the Contract and any approved change orders thereto, less the amount properly paid by JEA to Contractor. (C) Either way, the Surety shall pay JEA all remaining losses, delay and disruption damages, expenses, costs, and statutory attorney's fees, including appellate proceedings, that JEA sustains because of a default by Contractor under the Contract; or

(3) Within a reasonable time, but in no event later than thirty (30) days from JEA's notice of termination for default, waive its right to complete or arrange for completion of the Contract and, within twenty-one (21) days thereafter, determine the amount for which it may be liable to JEA and tender payment to JEA of any amount necessary in order for JEA to complete performance of the Contract in accordance with its terms and conditions less the balance of the Contract price, and shall also indemnify and save JEA harmless on account of all claims and damages arising from the Contractor's default under the Contract, and pay JEA for all losses, delay and disruption damages and other damages,

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expenses, costs and statutory attorney's fees, including appellate proceedings, that JEA sustains because of a default of the Contractor under the Contract.

PROVIDED further, the Surety shall indemnify and save JEA harmless from any and all claims and damages, arising from the Contractor's default under the Contract including, but not limited to, contractual damages, expenses, costs, injury, negligent default, or intentional default, patent infringement and actual damages (including delay and disruption damages) in accordance with the Contract, and including all other damages and assessments which may arise by virtue of failure of the product to perform or any defects in work or materials within a period of one (1) year from the date on which the Contractor receives from JEA a certificate of final completion under the Contract.

PROVIDED further, that during any interim period after JEA has declared Contractor to be in default but Surety has not yet remedied the default in the manner acceptable to JEA, Surety shall be responsible for securing and protecting the work site including, but not limited to, the physical premises, structures, fixtures, materials, and equipment, and shall be responsible for securing and protecting materials and equipment stored off-site in accordance with the Contract.

PROVIDED further, no right of action shall accrue on this Bond to or for the use of any person or corporation other than JEA named herein or the heirs, executors, administrators or successors of JEA.

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NEXT PAGE IS THE SIGNATURE PAGE

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SIGNED AND SEALED this_____day of_____, 20_.

ATTEST: _____, **a Florida Corporation**

_____ _____
Signature Signature

_____ _____
Type/Print Name Type/Print Name

_____ _____
Title Title

AS PRINCIPAL

Signed, Sealed and Delivered
in the Presence of:

_____ _____

_____ By:_____
Its: _____

AS SURETY

Name of Agent: _____

Address: _____

_____

Note: Date of Bond Must Not Be Prior to Date of Contract

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

JEA CONTRACT NUMBER _____

SURETY BOND NUMBER _____

PAYMENT BOND
REQUIRED
BY SECTION 255.05, FLORIDA STATUTES

As to the Contractor/Principal:

Name:

Telephone: (904)

As to the Surety:_____

Name:_____

Principal Business Address:_____

Telephone: ( )_____

As to the Owner of the Property/Contracting Public Entity:

Name: JEA, 21 W. Church St., Jacksonville, FL 32202

Telephone: (904) 665-6000

Description of project including address and description of improvements:
"Soliciation Name and Number"

JEA

PAYMENT BOND REQUIRED BY

SECTION 255.05, FLORIDA STATUTES

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KNOW ALL MEN BY THESE PRESENTS, that _____., hereinafter called "Principal", and_____, a corporation organized and existing under the laws of the State of _____, and duly authorized to conduct and carry on a general surety business in the State of Florida, hereinafter called "Surety," are each held and firmly bound unto JEA of Jacksonville, a municipal corporation, of Jacksonville, Duval County, Florida, hereinafter called "JEA" or "Owner," in the penal sum of _____ and __**/100 Dollars ($_____.__)** in lawful money of the United States of America, for the payment whereof Principal and Surety bind themselves, their respective heirs, executors, administrators, legal representatives, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS the Principal entered into a certain contract with JEA, dated the_____day of _____, 2016 (JEA Contract Number_____) (the "Contract") which is, by this reference, made a part hereof, as if fully set out herein, for "Solicitation Name", pursuant to IFB # _____ , of Specifications entitled "**Solicitation Title**" for JEA, in accordance with plans and specifications prepared by JEA.

NOW, THEREFORE, **THE CONDITION OF THIS BOND** is such that if the said Principal:

(1) Provides to JEA a certified copy of the recorded bond prior to commencing the work (or before recommencing the work after a default or abandonment) in accordance with Section 255.05(1)(b), Florida Statutes; and

(2) Promptly makes payments to all claimants, as defined in Sections 255.05(1) and 713.01, Florida Statutes, supplying Principal with labor, materials or supplies that are consumed or used directly or indirectly, by Principal in connection with the prosecution of the work provided for in such Contract and including all insurance premiums on the work, and including any authorized extensions or modifications of such Contract; and

(3) Defends, indemnifies and saves JEA harmless from claims, demands, liens, or suits by any person or entity whose claim, demand, lien or suit is for the payment of labor, materials or equipment furnished for use in the performance of the Contract, provided JEA has promptly notified the Principal and Surety of any claims, demands, liens, or suits and provided there is no failure by JEA to pay the Principal as required by the Contract; and

(4) Pays JEA all losses, damages, expenses, costs and attorney's fees, including appellate proceedings, that JEA sustains because of the Principal's failure to promptly make payments to all claimants as provided above, then this Bond is void; otherwise, it remains in full force and effect, both in equity and in law, in accordance with the statutes and the laws of the State of Florida and, specifically Section 255.05, Florida Statutes.

PROVIDED, no suit or action for labor, materials or supplies shall be instituted hereunder against the Principal or the Surety unless a claimant provides, to each of them, both of the proper notices, in accordance with

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the requirements of Section 255.05(2), Florida Statutes. Both notices must be given in order to institute such suit or action.

PROVIDED further, an action, except for an action exclusively for recovery of retainage, must be instituted against the Principal or Surety on this Payment Bond within one (1) year after the performance of the labor or completion of delivery of the materials or supplies, in accordance with the requirements of Section 255.05(10), Florida Statutes.

PROVIDED further, an action exclusively for the recovery of retainage must be instituted against the Principal or Surety within one (1) year after the performance of the labor or completion of delivery of the materials or supplies, unless an extension beyond the one (1) year period is specifically provided pursuant to Section 255.05(10), Florida Statutes.

PROVIDED further, that the said Surety, hereby stipulates and agrees that no change, extension of time, alteration or addition of the terms of the Contract or to the work to be performed thereunder or the specifications accompanying the same shall in any wise effect its obligation on this Bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the Contract or to the work or to the specifications.

SIGNED AND SEALED this_____day of_____, 2016.

ATTEST: **Vendor Name , a Florida Corporation**

_____ _____
Signature Signature

_____ _____
Type/Print Name Type/Print Name

_____ _____
Title Title

AS PRINCIPAL

Signed, Sealed and Delivered
in the Presence of:

_____ _____

_____ By: _____

Its: _____

AS SURETY

Name of Agent: _____

Address: _____

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

Note: Date of Bond Must Not Be Prior to Date of Contract

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

APPENDIX I
JEA TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS
JEA UTILITY WORK

1. GENERAL

Except as expressly provided elsewhere in the Contract Documents, these Technical Special Provisions apply only to the work described as follows, hereinafter referred to as the "JEA Utility Work."

The JEA Utility Work covered by this Technical Special Provision includes, but is not limited to construction of all water and wastewater systems, wet taps and in-line stop valves; services; main line valves; fittings; subsequent placing out of service of existing mains and all other appurtenances required for a complete water and wastewater system, as specified in this Technical Special Provision and the Contract Plans.

2. STANDARDS / DETAILS

All JEA Utility Work and materials shall be in accordance with the JEA Water & Wastewater Standards Manual, Standard Detail Drawings, and the Approved Materials Manual hereinafter referred to as the "JEA Standards", dated January 1, 2023.

Site work that is incidental to the JEA shall meet the general specification requirements under JEA Section II. Where the work is similar to County work specified, county requirements will rule and were none exist, the FDOT specification will control (i.e. asphalt, lime rock, concrete, turf, striping, clearing and MOT). Unless otherwise noted in the JEA pay ITEMS, incidental items will be paid as prescribed under JEA standard pay items.

3. REFERENCED DOCUMENTS

Refer to the bidding documents provided:

1. JEA "Water & Wastewater Standards Manual, Standard Detail Drawings, and the Approved Materials Manual" (JEA Standards), January 1, 2023 Edition
2. JEA's Responsible Bidders List (RBL) – "WM2 Water, Sewer, Reclaim Pressure Pipe Construction Underground Trench < 24" Diameter

4. CONTRACTOR QUALIFICATIONS

The contractor who performs the underground JEA Utility Work, whether it is the prime contractor or a sub-contractor, shall be pre-qualified and listed on the JEA's Responsible Bidders List (RBL) WM2 Water, Sewer, Reclaim Pressure Pipe Construction Underground Trench < 24" Diameter category, as provided in this Technical Special Provision.

5. CONDUCT OF WORK

5.1. All water main construction, tie-ins to existing utility system and resolution of conflicts shall be in accordance with the Contract Documents.

5.2. All removed fire hydrants are to remain the property of JEA and shall be delivered to 2558 Boulevard St., Jacksonville FL. Contact JEA Representative at 904-665-4837 prior to delivery.

5.3. Unless otherwise shown in the plans, all existing pipes, valves, fittings, etc. removed shall become the property of the Contractor and be disposed of as required by FDOT Specification 110-9.

5.4. Unless otherwise shown in the plans, existing water and sewer service lines will not be located.

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6. PIPE BELL/JOINT RESTRAINTS

All new piping joints shall be restrained in accordance with JEA Standards. All existing piping where new piping is being tied into it shall also be restrained in accordance with JEA Standards.

7. INTERRUPTION OF SERVICE / OUTAGES

Interruptions and interference with the operation of the JEA utility system and inconvenience to customers shall be kept to a minimum. It shall be unequivocally understood that continuity of utility services and the safety of the JEA utility system shall be given prime consideration. Do not cause any interruption of utility service without obtaining permission from the Engineer and having a representative from JEA present. Only JEA personal will operate any valves, except during an emergency. In the event of an emergency that endangers life or property, the Contractor may take immediate action before notifying the Engineer. The Engineer shall be notified if the need arises for "shut down" of a main or a portion of a main. Where there will be an interruption of utility service, it is the Contractor's responsibility to notify all affected parties of the proposed interruption of service in accordance with the following:

7.1 OUTAGE AREA

Provide a written outage simulation request to the Engineer a minimum of two weeks in advance for an outage simulation, to locate and test existing valves and determine the area that will be affected by the outage.

7.2 COORDINATION

After the simulation and after obtaining a clearance to connect the new lines to existing, provide the Engineer with a written outage request. The following information shall be furnished in advance of any outage:

1) Date and time of the outage
2) Purpose of the outage
3) Map of the area to be affected by the outage
4) Letter stating that all offices, businesses and residences have been or will be notified by the Contractor in advance of the outage.

7.3 PLANNED OUTAGES

Notify the Engineer a minimum of 3 weeks prior to any planned outage requests. Plan all outages to occur between 1:00 AM and 5:00 AM. Each outage request will be reviewed on its own merit. Schedule outage work to minimize repetitive outages to the same affected customers. If this cannot be achieved then outages to the same customers shall be scheduled over several weeks, as directed by the Engineer. Notify all consumers at least three working days in advance of service interruptions unless otherwise approved by the Engineer.

8. RESTORATION

Whenever the site is disturbed solely for the purpose of the Utility Work, completely replace and restore the site to the Engineer's satisfaction.

9. SYSTEM CONNECTIONS

All existing mains are to remain in service until their respective replacement mains are installed and are ready to be placed into service. Perform all work necessary to make connections and ties to existing in-line and lateral connections when installing mains as shown on the Utility Plans and in accordance with the Contract Documents.

10. PREPARATION BEFORE TIE-INS AND INTERCONNECTIONS

A 100% water shutdown is not always possible. Prior to beginning the work of making the tie-ins and interconnections to the existing and proposed mains, have all the material, equipment, and labor at the site in readiness for the planned Utility Work.

11. MATERIAL REQUIREMENTS

All construction materials shall meet all applicable specifications in the provided JEA Standards unless otherwise required in the contract documents.

12. PERMITS

Secure and pay for all permits (as required), including but not limited to the Florida Department of Environmental Protection and Nassau County. Accordingly, comply with all conditions of permits and all items necessary to obtain the clearances of all permit requirements (i.e., FDEP Certification of

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Completion).

13. AS-BUILTS

Provide As-Built Record Drawings in accordance with the JEA Standards.

14. TESTING

Hire one or more testing laboratory(ies) to perform all sampling, field testing, and associated laboratory testing as specified in JEA Standards, Section 408, or as directed by the Engineer. New water, wastewater force and reclaim mains greater than 12" I.D. shall be hydraulically cleaned with polypropylene swabbing device. All testing is to be performed under the direct supervision of a registered professional engineer.

15. DEWATERING

If groundwater is encountered, utilize dewatering system(s) to remove water from the excavations.

16. ADDITION & DELETION OF WORK

All changes in JEA Utility Work, whether it is additional and/or deletion, shall be performed/adjusted at the established unit prices provided by the Contractor, as listed in the bid pay item list and as provided for in this Technical Special Provision.

17. MEASUREMENT AND PAYMENT

All JEA Utility Work will be paid for as detailed under the JEA standard specifications for the work described in the utility plan sheets and other Contract Documents.

18. BASIS OF PAYMENT

Prices and payments shall be full compensation for all work and materials specified in this Technical Special Provision.

19. JEA CONTRACT

Wining Bidder will contract directly with the JEA and therefore separate payment applications will be made. Bidder must comply with JEA requirements to include (refer to Bid Forms | Become a Vendor | Procurement | About | JEA):

JEA Contract
Performance and Payment Bond
Florida Tranch Safety Act) Provide
List of Subcontractors

20. GENERAL CONDITIONS:

The Contractor will satisfy County contract requirements not explicitly detailed by JEA as

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identified in these contract documents if not detailed by the JEA contract requirements noted above and to include:

20.1 INDEMNIFICATION

Contractor (Company) shall hold harmless, indemnify, and defend JEA and the ENGINEER, and PROGRAM MANAGEMENT FIRM(S) (where applicable) against any claim, action, loss, damage, injury, liability, cost and expense of whatsoever kind or nature (including, but not by way of limitation, reasonable attorney's fees and court costs) arising out of injury (whether mental or corporeal) to persons, including death, or damage to property, arising out of or incidental to the negligence, recklessness or intentional wrongful misconduct of the Company and any person or entity used by Company in the performance of this Contract or Work performed thereunder. For purposes of this Indemnification, the term "JEA" shall mean JEA as a body politic and corporate and shall include its governing board, officers, employees, agents, successors and assigns. This indemnification shall survive the term of a Contract entered into pursuant to this solicitation, for events that occurred during the Contract term. This indemnification shall be separate and apart from, and in addition to, any other indemnification provisions set forth elsewhere in this Contracta written outage simulation request to the Engineer a minimum of two weeks in advance for an outage simulation, to locate and test existing valves and determine the area that will be affected by the outage.

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20.1 INSURANCE

Before starting and until acceptance of the Work by JEA, and without further limiting its liability under the Contract, Contractor (Company) shall procure and maintain at its sole expense, insurance of the types and in the minimum amounts stated below:

Schedule	Amount
Workers' Compensation Florida Statutory coverage and Employer's Liability (including Liability) appropriate Federal Acts)	Statutory Limits (Workers' Compensation) $500,000 each accident (Employer's
Commercial General Liability Premises-Operations Products-Completed Operations injury Contractual Liability limit Independent Contractors Broad Form Property Damage Explosion, Collapse and Underground Hazards (XCU Coverage) as appropriate	$1,000,000 each occurrence $2,000,000 annual aggregate for bodily and property damage, combined single
Automobile Liability All autos-owned, hired, limit or non-owned	$1,000,000 each occurrence, combined single
Excess or Umbrella Liability	$2,000,000 each occurrence and annual aggregate

Company's Commercial General Liability and Excess or Umbrella Liability policies shall be effective for two years after Work is complete. The above Indemnification provision is separate and is not limited by the type of insurance or insurance amounts stated above. Contractor shall specify JEA, the ENGINEER and PROGRAM MANAGEMENT FIRMS (S) as an "additional interest" insured for all coverage except Workers' Compensation and Employer's Liability. Such insurance shall be primary to any and all other insurance or self-insurance maintained by JEA. Company shall include a Waiver of Subrogation on all required insurance in favor of JEA, its board members, officers, employees, agents, successors and assigns. Such insurance shall be written by a company or companies licensed to do business in the State of Florida and satisfactory to JEA. Prior to commencing any Work under this Contract, certificates evidencing the maintenance of the insurance shall be furnished to JEA for approval.

Company's and its subcontractors' Certificates of Insurance shall be mailed to JEA (Attn. Procurement Services), Customer Care Center, 6th Floor, 21 West Church Street, Jacksonville, FL 32202-3139.

The insurance certificates shall provide that no material alteration or cancellation, including expiration and non-renewal, shall be effective until 30 days after receipt of written notice by JEA. Any subcontractors of Company shall procure and maintain the insurance required of Company hereunder during the life of the subcontract. Subcontractors' insurance may be either by separate coverage or by endorsement under insurance provided by Company. Company shall submit subcontractors' Certificates of Insurance to JEA the ENGINEER AND PROGRAM MANAGEMENT FIRMS(S) prior to allowing subcontractors to perform Work on JEA's job sites.

20.3 AS-BUILT The edited electronic copy, and a signed and sealed hard copy of the electronically edited plans for the County and the JEA separately, shall be provided to the Engineer two weeks prior to final inspection.

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APPENDIX J

GENERAL INFORMATION AND MINIMUM INSURANCE REQUIREMENTS

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GENERAL INFORMATION AND MINIMUM INSURANCE REQUIREMENTS

COMMERCIAL GENERAL LIABILITY INSURANCE

The Contractor shall purchase and maintain at the Contractor's expense Commercial General Liability insurance coverage (ISO or comparable Occurrence Form) for the life of this Contract. Modified Occurrence or Claims Made forms are not acceptable.

The Limits of this insurance shall not be less than the following limits:

Each Occurrence Limit	$1,000,000
Personal & Advertising Injury Limit	$1,000,000
Fire Damage Limit (any one fire)	$ 50,000
Medical Expense Limit (any one person)	$ 5,000
Products & Completed Operations Aggregate Limit	$2,000,000
General Aggregate Limit (other than Products & Completed Operations) Applies Per Project	$2,000,000

General liability coverage shall continue to apply to "bodily injury" and to "property damage" occurring after all work on the Site of the covered operations to be performed by or on behalf of the additional insureds has been completed and shall continue after that portion of "your work" out of which the injury or damage arises has been put to its intended use.

WORKERS' COMPENSATION AND EMPLOYER'S LIABILITY INSURANCE

The Contractor shall purchase and maintain at the Contractor's expense Workers' Compensation and Employer's Liability insurance coverage for the life of this Contract.

The Limits of this insurance shall not be less than the following limits:

Part One – Workers' Compensation Insurance – Unlimited
Statutory Benefits as provided in the Florida Statutes and
Part Two – Employer's Liability Insurance

Bodily Injury By Accident	$500,000 Each Accident
Bodily Injury By Disease	$500,000 Policy Limit
Bodily Injury By Disease	$500,000 Each Employee

*If leased employees are used, policy must include an Alternate Employer's Endorsement

AUTOMOBILE LIABILITY INSURANCE

The Contractor shall purchase and maintain at the Contractor's expense Automobile Liability insurance coverage for the life of this Contract.

The Limits of this insurance shall not be less than the following limits:

Combined Single Limit – Each Accident	$1,000,000

Covered Automobiles shall include any auto owned or operated by the insured Contractor, insured Sub-subcontractor including autos which are leased, hired, rented or borrowed, including autos owned by their employees which are used in connection with the business of the respective Contractor or Sub-subcontractor.

UMBRELLA INSURANCE

The Contractor shall purchase and maintain at the Contractor's expense Umbrella Liability (Umbrella Form) insurance coverage for the life of this Contract.

The Limits of this insurance shall not be less than the following limits:

Each Occurrence Limit	$1,000,000
Aggregate Limit	$1,000,000

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Contractor shall require each of his Subcontractors to likewise purchase and maintain at their expense Commercial General Liability insurance, Workers' Compensation and Employer's Liability coverage, Automobile Liability insurance, Umbrella Liability Professional Liability, Environmental Liability, Builders Risk or Installation Floater (as applicable) insurance coverage meeting the same limit and requirements as the Contractors insurance.

Certificates of Insurance acceptable to Nassau County Board of County Commissioners for the Contractor's insurance must be received within five (5) days of Notification of Selection and at time of signing Agreement.

Certificates of Insurance and the insurance policies required for this Agreement shall contain an endorsement that coverage afforded under the policies will not be cancelled or allowed to expire until at least thirty (30) days prior written notice has been given to Nassau County Board of County Commissioners.

Certificates of Insurance and the insurance policies required for this Agreement will include a provision that policies, except Workers' Compensation and Professional Liability, are primary and noncontributory to any insurance maintained by the Contractor.

Nassau County Board of County Commissioners must be named as an Additional Insured and endorsed onto the Commercial General Liability (CGL), Auto Liability and Umbrella Liability policy (ies). A copy of the endorsement(s) must be supplied to Nassau County Board of County Commissioners ten (10) days following the execution of the agreement or prior to the first date of services, whichever comes first.

CGL policy Additional Insured Endorsement must include Ongoing and Completed Operations (Form CG2010 11 84 **OR** Form CG2010 04 13 and GC2037 04 13 edition or equivalent). Other Additional Insured forms might be acceptable but only if modified to delete the word "ongoing" and insert the sentence "Operations include ongoing and completed operations".
CGL policy shall not be endorsed with Exclusion - Damage to Work performed by Subcontractors on Your Behalf (CG2294 or CG2295)
CGL policy shall not be endorsed with Contractual Liability Limitation Endorsement (CG2139) or Amendment of Insured Contract Definition (CG 2426)
CGL policy shall not be endorsed with Exclusion - Damage to Premises Rented to you (CG 2145)
CGL policy shall include broad form contractual liability coverage for the Contractors covenants to and indemnification of the Authority under this Contract

Certificates of Insurance and the insurance policies required for this Agreement shall contain a provision under General Liability, Auto Liability and Workers' Compensation to include a Waiver of Subrogation clause in favor of Nassau County Board of County Commissioners.

All Certificates of Insurance shall be dated and shall show the name of the insured Contractor, the specific job by name and job number, the name of the insurer, the policy number assigned its effective date and its termination date and a list of any exclusionary endorsements.

All Insurers must be authorized to transact insurance business in the State of Florida as provided by Florida Statute 624.09(1) and the most recent Rating Classification/Financial Category of the insurer as published in the latest edition of "Best's Key Rating Guide' (Property-Casualty) must be at least A- or above.

All of the above referenced Insurance coverage is required to remain in force for the duration of this Agreement and for the duration of the warranty period. Accordingly, at the time of submission of final application for payment, Contractor shall submit an additional Certificate of Insurance evidencing continuation of such coverage.

If the Contractor fails to procure, maintain or pay for the required insurance, Nassau County Board of County Commissioners shall have the right (but not the obligation) to secure same in the name of and for the account of Contractor, in which event, Contractor shall pay the cost thereof and shall furnish upon demand, all information that may be required to procure such insurance. Nassau County Board of County Commissioners shall have the right to back-charge contractor for the cost of procuring such insurance. The failure of Nassau County Board of County Commissioners to demand certificates of insurance and endorsements evidencing the required insurance or to identify any deficiency in contractors coverage based on the evidence of insurance provided by the contractor shall

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not be construed as a waiver by Nassau County Board of County Commissioners of contractor's obligation to procure, maintain and pay for required insurance.

The insurance requirements set forth herein shall in no way limit Contractors liability arising out of the work performed under the Agreement or related activities. The inclusions, coverage and limits set forth herein are minimum inclusion, coverage and limits. The required minimum policy limits set forth shall not be construed as a limitation of Contractor's right under any policy with higher limits, and no policy maintained by the Contractor shall be construed as limiting the type, quality or quantity of insurance coverage that Contractor should maintain. Contractor shall be responsible for determining appropriate inclusions, coverage and limits, which may be in excess of the minimum requirements set forth herein.

If the insurance of any Contractor or any subcontractor contains deductible(s), penalty(ies) or self-insured retention(s), the Contractor or Subcontractor whose insurance contains such provision(s) shall be solely responsible for payment of such deductible(s), penalty(ies) or self-insured retention(s).

The failure of Contractor to fully and strictly comply at all times with the insurance requirements set forth herein shall be deemed a material breach of the Agreement.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

NASSAU COUNTY
BOARD OF COUNTY COMMISSIONERS
Procurement Department
96135 Nassau Place, Suite 2
Yulee, Florida 32097
Ph: 904-530-6040

TO: All Prospective Bidders

FROM: Thomas O'Brien, Procurement Specialist

SUBJECT: Addendum #1
Invitation to Bid Number NC23-064
Chester Road Intersection Improvements

DATE: January 16, 2024

This addendum is hereby incorporated into the bid documents of the project referenced above. The following items are clarifications, corrections, additions, deletions and/or revisions to, and shall take precedence over, the original documents.

The solicitation due date and opening has been changed to: January 25, 2024 at 10:00 AM EST.

VENDOR HEREBY ACKNOWLEDGES THIS ADDENDUM ELECTIONICALLY THROUGH PLANETBIDS BY ITS BID SUBMISSION.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F EXHIBIT "A"

SECTION 00 41 15

BID FORM

PROJECT IDENTIFICATION: **Chester Road Intersection Improvements**
Bid Number NC23-064
Nassau County, Florida

BID DEADLINE: **January 17, 2024 AT 10:00 AM EST**

THIS BID IS SUBMITTED TO: **Board of County Commissioners, Nassau County**
Judicial Annex
Office of the Ex-Officio Clerk
76347 Veterans Way, Suite 456
Yulee, Florida 32097

1.01 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an agreement with the County in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

Company Name (typed or printed): Reeves Construction Company
Business address: 249 Industry Place, St. Augustine, FL 32095
Phone No.: (904) 824-9901 Fax No.: (904) 824-9601
Contact Name: Scott Newman
Contact Title: Region Manager / Asst. Secretary
Contact email address: snewman@reevescc.com

2.01 Bidder accepts all of the terms and conditions of the Advertisement or Invitation to Bid and Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. The Bid will remain subject to acceptance for 90 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of the County.

3.01 In submitting this Bid, Bidder represents, as set forth in the Agreement, that:

A. Bidder has examined and carefully studied the Bidding Documents, the other related data identified in the Bidding Documents, and the following Addenda, receipt of all which is hereby acknowledged:

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

Addendum No.	Addendum Date
01	01/16/2025

B. Bidder has visited the Site and become familiar with and is satisfied as to the general, local and Site conditions that may affect cost, progress, and performance of the Work.

C. Bidder is familiar with and is satisfied as to all federal, state and local Laws and Regulations that may affect cost, progress and performance of the Work.

D. Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or contiguous to the Site and all drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the Site (except Underground Facilities) which have been identified in the Supplementary Conditions as provided in paragraph 4.02 of the General Conditions, and (2) reports and drawings of a Hazardous Environmental Condition, if any, which has been identified in the Supplementary Conditions as provided in paragraph 4.06 of the General Conditions.

E. Bidder has obtained and carefully studied (or assumes responsibility for having done so) all additional or supplementary examinations, investigations, explorations, tests, studies. and data concerning conditions (surface, subsurface and Underground Facilities) at or contiguous to the Site which may affect costs, progress, or performance of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, including applying the specific means, methods, techniques, sequences, and procedures of construction expressly required by the Bidding Documents to be employed by Bidder, and safety precautions and programs incident thereto.

F. Bidder does not consider that any further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price(s) bid and within the times and in accordance with the other terms and conditions of the Bidding Documents.

G. Bidder is aware of the general nature of the work to be performed by the County and others at the Site that relates to the Work as indicated in the Bidding Documents.

H. Bidder has correlated the information known to Bidder, information and observations obtained from visits to the Site, reports and drawings identified in the Bidding Documents, and all additional examinations, investigations, explorations, tests, studies, and data with the Bidding Documents.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

I. Bidder has given Engineer of Record written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and the written resolution thereof by Engineer of Record is acceptable to Bidder.

J. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance of the Work for which this Bid is submitted.

4.01 Bidder further represents that this Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation; Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; Bidder has not solicited or induced any individual or entity to refrain from bidding; and Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over the County.

5.01 Bidder will complete the Work in accordance with the Contract Documents for the following price(s):

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

	A	ROADWAY IMPROVEMENTS				
Item No.	**Pay Item**	**Pay Item Description**	**Units**	**Quantity**	**Cost Per Unit**	**Total Cost**
1	104-10-3	SEDIMENT BARRIER	LF	9,100	$2.74	$24,934.00
2	104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	LF	157	$14.21	$2,230.97
3	104-18	INLET PROTECTION SYSTEM	EA	23	$310.06	$7,131.38
4	107-1	LITTER REMOVAL AND DISPOSAL	AC	66	$403.46	$26,628.36
5	107-2	MOWING	AC	66	$553.87	$36,555.42
6	110-1-1	CLEARING AND GRUBBING	AC	13.2	$34,172.15	$451,072.38
7	110-4-10	REMOVAL OF EXIST CONC	SY	1,744	$21.08	$36,763.52
8	120-1	REGULAR EXCAVATION	CY	21,148	$9.49	$200,694.52
9	120-6	EMBANKMENT	CY	3,888	$9.79	$38,063.52
10	121-70	FLOWABLE FILL	CY	166	$395.68	$65,682.88
11	160-4	TYPE B STABILIZATION	SY	18,922.7	$21.77	$411,947.18
12	285-701	OPTIONAL BASE GROUP 1	SY	1007.3	$26.96	$27,156.81
13	285-704	OPTIONAL BASE GROUP 4, (DRIVEWAY)	SY	115.3	$34.94	$4,028.58
14	285-706	OPTIONAL BASE GROUP 6	SY	15,710.5	$37.45	$588,358.23
15	327-70-6	MILLING EXIST ASPH PAVT, 1.5" AVG DEPTH	SY	8,405.3	$6.82	$57,324.15
16	327-70-16	MILLING EXIST ASPH PAVT, 0.5" AVG DEPTH	SY	2,363.1	$5.56	$13,138.84
17	334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C (1.5")	TN	1,465.5	$339.46	$497,478.63
18	334 -1-13	SUPERPAVE ASPHALTIC CONC,	TN	55.0	$445.83	$24,520.65

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

		TRAFFIC C (OVERBUILD)				
19	334-1-53	SUPERPAVE ASPHALTIC CONC, TRAFFIC C, PG 76-22 (PAGES DAIRY STA. 248+00 - 248+60 VARIABLE DEPTH)	TN	21.8	$445.83	$9,719.09
20	334-1-53	SUPERPAVE ASPHALTIC CONC, TRAFFIC C, PG 76-22 (PAGES DAIRY STA. 238+70 - 240+00 VARIABLE DEPTH)	TN	32.1	$445.83	$14,311.14
21	334-1-53	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC C, PG76-22 (1.5")	TN	2,226.2	$297.87	$663,118.19
22	425-1-311	INLETS, CURB, TYPE P-1, <10'	EA	11	$13,756.78	$151,324.58
23	425-1-321	INLETS, CURB, TYPE P-2, <10'	EA	6	$15,421.05	$92,526.30
24	425-1-341	INLETS, CURB, TYPE P-4, <10'	EA	2	$14,223.16	$28,446.32
25	425-1-421	INLETS, CURB, TYPE J-2, <10'	EA	1	$15,488.47	$15,488.47
26	425-1-521	INLETS, DITCH BOTTOM, TYPE C, <10'	EA	7	$6,338.34	$44,368.38
27	425-1-549	INLETS, DITCH BOTTOM, TYPE D, MODIFIED	EA	1	$17,886.02	$17,886.02
28	425-2-61	MANHOLES, P-8, <10'	EA	6	$9,860.71	$59,164.26
29	425-2-91	MANHOLES, J-8, <10’	EA	4	$10,679.88	$42,719.52
30	430-175-118	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18"	LF	3,160	$163.91	$517,955.60
31	430-175-124	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 24"	LF	687	$247.90	$170,307.30
32	430-175-130	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 30"	LF	419	$326.25	$136,698.75
33	430-175-136	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 36"	LF	549	$405.10	$222,399.90

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

34	430-175-218	PIPE CULVERT, OPTIONAL MATERIAL, ELLIPTICAL, 14"x23"	LF	201	$235.25	$47,285.25
35	430-518-100	STRAIGHT CONCRETE ENDWALL, 18", ROUND, 15 DEGREES	EA	2	$10,092.17	$20,184.34
36	430-518-130	STRAIGHT CONCRETE ENDWALL, 24", ROUND, 45 DEGREES	EA	3	$11,268.42	$33,805.26
37	430-830	PIPE FILLING AND PLUGGING-PLACE OUT OF SERVICE	CY	5	$1,320.70	$6,603.50
38	430-982-138	MITERED END SECTION, OPTIONAL ROUND, 36" CD	EA	1	$5,885.14	$5,885.14
39	430-982-138	MITERED END SECTION, OPTIONAL ELIPTICAL/ARCH, 14"X23 SD	EA	2	$3,492.83	$6,985.66
40	515-1-2	PIPE HANDRAIL - GUARDRAIL, ALUMINIM	LF	32	$224.05	$7,169.60
41	520-1-10	CONCRETE CURB & GUTTER, TYPE F	LF	4,806	$38.82	$186,568.92
42		RIBBON CURB	LF	50	$48.34	$2,417.00
43	520-5-11	TRAFFIC SEPERATOR CONCRETE-TYPE I, 4' WIDE	LF	406	$84.88	$34,461.28
44	522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4"	SY	3,697	$79.33	$293,283.01
45	522-2	CONCRETE SIDEWALK AND DRIVEWAYS, 6”	SY	144	$110.11	$15,855.84
46	527-2	DETECTABLE WARNINGS	SF	304	$59.90	$18,209.60
47	570-1-2	PERFORMANCE TURF, SOD	SY	18,985	$8.12	$154,158.20
48	700-1-11	SINGLE POST SIGN, F&I GROUND MOUNT, <12 SF	AS	26	$637.93	$16,586.18

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

49	700-1-50	SINGLE POST SIGN, RELOCATE	AS	1	$155.59	$155.59
50	700-1-60	SINGLE POST SIGN, REMOVE	AS	16	$77.80	$1,244.80
51	706-1-3	RAISED PAVEMENT MARKERS	EA	393	$6.22	$2,444.46
52	710-11-290	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, ISLAND NOSE	SF	113	$7.78	$879.14
53	711-11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK	LF	1,612	$7.78	$12,541.36
54	711-11-124	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18" FOR DIAGONALS AND CHEVRONS	LF	281.0	$8.95	$2,514.95
55	711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24"	LF	1,425.0	$10.50	$14,962.50
56	711-11-141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDE LINE/ 6-10 GAP EXTENSION, 6"	GM	0.171	$2,629.59	$449.66
57	711-11-160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE	EA	30	$311.19	$9,335.70
58	711-11-170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA	52	$116.70	$6,068.40
59	711-11-224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF	1,111.0	$8.95	$9,943.45
60	711-16-131	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SKIP, 6",10-30 SKIP OR 3-9 LANE DROP	GM	0.509	$2,650.29	$1,349.00
61	711-16-231	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SKIP, 6"	GM	0.031	$2,559.68	$79.35
62	711-16-101	THERMOPLASTIC, STANDARD, WHITE, SOLID, 6"	GM	2.273	$7,458.63	$16,953.47

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

63	711-16-201	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 6"	GM	2.256	$7,481.73	$16,878.78
		SUBTOTAL: A – ROADWAY IMPROVEMENTS				$5,645,403.23
	B	**SIGNALIZATION**				
Item No.	**Pay Item**	**Pay Item Description**	**Units**	**Quantity**	**Cost Per Unit**	**Total Cost**
64	630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	1086	$27.33	$29,680.38
65	630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	1695	$55.67	$94,360.65
66	630-2-20	CONDUIT, FURNISH & INSTALL, JACK AND BORE UNDER RAILROAD	LF	247	$466.03	$115,109.41
67	632-7-1	SIGNAL CABLE- NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	PI	2	$15,999.54	$31,999.08
68	632-7-2	SIGNAL CABLE - REPAIR/REPLACE/OTHER, FURNISH & INSTALL	LF	0	$12.45	
69	632-7-6	SIGNAL CABLE, REMOVE-INTERSECTION	PI	1	$2,936.13	$2,936.13
70	633-1-121	FIBER OPTIC CABLE, FURNISH & INSTALL, UNDERGROUND, 2-12 FIBERS	LF	25	$6.66	$166.50
71	633-1-122	FIBER OPTIC CABLE, FURNISH & INSTALL, UNDERGROUND, 13-48 FIBERS	LF	2309	$6.41	$14,800.69

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

72	633-1-420	FIBER OPTIC CABLE, RELOCATE, UNDERGROUND	LF	30	$39.29	$1,178.70
73	633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA	36	$86.13	$3,100.68
74	633-2-32	FIBER OPTIC CONNECTION, INSTALL, TERMINATION	EA	36	$149.48	$5,381.28
75	633-3-11	FIBER OPTIC CONNECTION HARDWARE, FURNISH & INSTALL, SPLICE ENCLOSURE	EA	2	$2,319.56	$4,639.12
76	633-3-12	FIBER OPTIC CONNECTION HARDWARE, FURNISH & INSTALL, SPLICE TRAY	EA	3	$118.38	$355.14
77	633-3-14	FIBER OPTIC CONNECTION HARDWARE, FURNISH & INSTALL, BUFFER TUBE FAN OUT KIT	EA	3	$217.13	$651.39
78	633-3-16	FIBER OPTIC CONNECTION HARDWARE, FURNISH & INSTALL, PATCH PANEL-FIELD TERMINATED	EA	2	$2,946.00	$5,892.00
79	635-2-11	PULL & SPLICE BOX, FURNISH & INSTALL, 13" x 24" COVER SIZE	EA	31	$2,435.87	$75,511.97
80	635-2-12	PULL & SPLICE BOX, FURNISH & INSTALL, 24" x 36" COVER SIZE	EA	8	$4,395.50	$35,164.00
81	635-2-30	PULL & SPLICE BOX, INSTALL	EA	2	$2,981.37	$5,962.74
82	639-1-122	ELECTRICAL POWER SERVICE, FURNISH & INSTALL, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS	2	$8,307.26	$16,614.52
83	639-1-620	ELECTRICAL POWER SERVICE, REMOVE UNDERGROUND	AS	1	$1,341.32	$1,341.32
84	639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF	287	$23.42	$6,721.54

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

85	639-2-6	ELECTRICAL SERVICE WIRE, REMOVE	LF	70	$1.84	$128.80
86	641-2-12	PRESTRESSED CONCRETE POLE, FURNISH & INSTALL, TYPE P-II SERVICE POLE	EA	2	$3,719.05	$7,438.10
87	641-2-60	PRESTRESSED CONCRETE POLE, COMPLETE POLE REMOVAL-PEDESTAL/SERVICE POLE	EA	1	$1,501.12	$1,501.12
88	646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	EA	11	$4,285.58	$47,141.38
89	646-1-60	ALUMINUM SIGNALS POLE, REMOVE	EA	2	$742.32	$1,484.64
90	649-21-6	STEEL MAST ARM ASSEMBLY, FURNISH & INSTALL, SINGLE ARM 50'	EA	2	$112,194.73	$224,389.46
91	649-21-10	STEEL MAST ARM ASSEMBLY, FURNISH & INSTALL, SINGLE ARM 60'	EA	1	$136,266.00	$136,266.00
92	649-21-15	STEEL MAST ARM ASSEMBLY, FURNISH & INSTALL, SINGLE ARM 70'	EA	1	$139,950.49	$139,950.49
93	649-21-18	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, DOUBLE ARM 70'-50'	EA	1	$182,696.43	$182,696.43
94	649-21-25	STEEL MAST ARM ASSEMBLY, FURNISH & INSTALL, DOUBLE ARM 78'-60'	EA	1	$190,576.17	$190,576.17
95	649-26-5	STEEL MAST ARM ASSEMBLY, REMOVE, DEEP FOUNDATION-BOLT ON ATTACHMENT	EA	4	$14,602.17	$58,408.68
96	650-1-34	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL POLYCARBONATE, 3 SECTION, 1 WAY	AS	15	$3,025.21	$45,378.15

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

97	650-1-36	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL POLYCARBONATE, 4 SECTION, 1 WAY	AS	5	$3,437.77	$17,188.85
98	650-1-39	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL POLYCARBONATE, 5 SECTION CLUSTER, 1 WAY	AS	0	$3,285.00	
99	650-1-60	VEHICULAR TRAFFIC SIGNAL, REMOVE-POLES TO REMAIN	AS	0	$245.00	
100	653-1-11	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 1 WAY	AS	8	$1,705.81	$13,646.48
101	653-1-12	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 2 WAYS	AS	3	$3,102.35	$9,307.05
102	660-1-110	LOOP DETECTOR, INDUCTIVE, FURNISH & INSTALL, TYPE 10	EA	13	$763.21	$9,921.73
103	660-2-106	LOOP ASSEMBLY, FURNISH & INSTALL, TYPE F	AS	18	$3,011.44	$54,205.92
104	660-6-121	VEHICLE DETECTION SYSTEM-AVI, BLUETOOTH, FURNISH & INSTALL, CABINET EQUIPMENT	EA	1	$7,074.10	$7,074.10
105	660-6-122	VEHICLE DETECTION SYSTEM-AVI, BLUETOOTH, FURNISH & INSTALL, ABOVE GROUND EQUIPMENT	EA	1	$15,854.98	$15,854.98
106	665-1-11	PEDESTRIAN DETECTOR, FURNISH & INSTALL, STANDARD	EA	14	$722.98	$10,121.72
107	670-5-111	TRAFFIC CONTROLLER ASSEMBLY, FURNISH & INSTALL, NEMA, 1 PREEMPTION	AS	2	$65,079.25	$130,158.50

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108	670-5-600	TRAFFIC CONTROLLER ASSEMBLY, REMOVE CONTROLLER WITH CABINET	AS	1	$2,192.59	$2,192.59
109	682-1-133	ITS CCTV CAMERA, F&I, DOME ENCLOSURE - NON-PRESSURIZED, IP, HIGH DEFINITION	EA	2	$11,313.10	$22,626.20
110	684-1-1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA	2	$8,453.27	$16,906.54
111	685-1-13	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, LINE INTERACTIVE WITH CABINET	EA	1	$16,718.91	$16,718.91
112	700-3-201	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, UP TO 12 SF	EA	9	$1,586.33	$14,276.97
113	700-3-501	SIGN PANEL, RELOCATE, UP TO 12 SF	EA	0	$187.00	
114	700-3-601	SIGN PANEL, REMOVE, UP TO 12 SF	EA	0	$93.00	
115	700-5-21	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL OVERHEAD MOUNT, UP TO 12 SF	EA	4	$7,710.13	$30,840.52
116	700-5-22	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, 12-18 SF	EA	4	$8,312.04	$33,248.16
117	700-141-360	ENHANCED HIGHWAY SIGN ASSEMBLY, AC POWERED, F&I OVERHEAD MOUNT, BLANK OUT SIGN <12 SF	EA	1	$12,529.77	$12,529.77
118	700-141-803	ENHANCED HIGHWAY SIGN ASSEMBLY, AC POWERED, RELOCATE - OVERHEAD MOUNT	EA	0		

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		SUBTOTAL: B – SIGNALIZATION				$1,903,745.65
	C	**JEA POTABLE WATER MAIN**				
Item No.	**Pay Item**	**Pay Item Description**	**Units**	**Quantity**	**Cost Per Unit**	**Total Cost**
119	801.XII.1	16" PVC DR 25 Pipe	LF	562	$195.39	$109,809.18
120	801.XII.1	2" PVC Pipe SCH 40	LF	17	$63.47	$1,078.99
121	801.XII.1	6" DI Water Main Pipe	LF	83	$74.57	$6,189.31
122	801.XII.2	16" MJ 45 Deg Bend	EA	18	$3,069.26	$55,246.68
123	801.XII.2	16" X 6" Tapping Saddle with Corp Stop	EA	1	$9,539.35	$9,539.35
124	801.XII.2	16" X 2" MJ Tee	EA	1	$4,322.24	$4,322.24
125	801.XII.6	16" Pipe Bell Restraint	EA	16	$1,357.13	$21,714.08
126	801.XIII.3	6" MJ Gate Valve	EA	1	$3,668.90	$3,668.90
127	801.XIII.1	Fire Hydrant Assembly	EA	4	$7,440.59	$29,762.36
128	801.XII.14	Temporary Sample Tap	EA	4	$913.27	$3,653.08
129	801.XIII.7	Connect to Valve	EA	6	$2,395.18	$14,371.08
130	801.XIII.2	Remove Fire Hydrant	EA	4	$866.83	$3,467.32
131	801.XIII.7	Connect to Existing 16" WM	EA	6	$4,144.09	$24,864.54
132	801.XIII.7	Connect to Existing 2" WM	EA	2	$2,475.48	$4,950.96
133	801.III.2.4	Abandon by Removal 16" PVC Pipe	LF	299	$23.19	$6,933.81
134	437	Thrust Block (Contingency)	EA	2	$1,368.63	$2,737.26

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		SUBTOTAL: C – JEA POTABLE WATER MAIN				$302,309.14
	D	**JEA RECLAIMED WATER MAIN**				
Item No.	**Pay Item**	**Pay Item Description**	**Units**	**Quantity**	**Cost Per Unit**	**Total Cost**
135	801.XXI.1	16" PVC DR 25 Pipe	LF	2401	$142.20	$341,422.20
136	801.XXI.2	16" MJ 22.5° Deg Bend	EA	2	$3,025.10	$6,050.20
137	801.XXI.2	16" MJ 45° Deg Bend	EA	18	$3,069.26	$55,246.68
138	801.XXI.6	16" Pipe Bell Restraint	EA	53	$1,356.95	$71,918.35
139	801.XXI.3	30" Steel Casing Pipe - by Jack and Bore	LF	330	$2,473.91	$816,390.30
140	801.XXII.1	16" Gate Valve	EA	5	$12,292.47	$61,462.35
141	801.XXII.5	Flushing Valve Below Grade	EA	2	$4,276.07	$8,552.14
142	801.VIII.3	Removal of Pavement	SY	56	$51.44	$2,880.64
143	801.VIII.4	Pavement Repair – Cross Cuts & Patches – Flowable Fill (Nassau County Detail No. 15)	SY	56	$231.63	$12,971.28
		SUBTOTAL: D – JEA RECLAIMED WATER MAIN				$1,376,894.14
	E	**JEA FORCE MAIN**				
Item No.	**Pay Item**	**Pay Item Description**	**Units**	**Quantity**	**Cost Per Unit**	**Total Cost**
144	801.XVI.1	16" PVC DR 25 Pipe	LF	2403	$142.76	$343,052.28
145	801.XVI.3	16" MJ 45 Deg Bend	EA	16	$4,469.42	$71,510.72

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

146	801.XVI.7	16" Pipe Bell Restraint	EA	95	$1,356.97	$128,912.15
147	801.XVI.3	16" Plug	EA	2	$2,914.71	$5,829.42
148	801.XXI.3	30" Steel Casing Pipe - by Jack and Bore	LF	332	$2,464.84	$818,326.88
149	801.XVII.4	Air Release Valve	EA	2	$19,191.11	$38,382.22
150	801.XVII.1	16" MJ Gate Valve	EA	4	$12,292.48	$49,169.92
151	801.VIII.3	Removal of Pavement	SY	139	$51.42	$7,147.38
152	801.VIII.4	Pavement Repair – Cross Cuts & Patches – Flowable Fill (Nassau County Detail No. 15)	SY	139	$231.62	$32,195.18
153	801.VI.1	12" PVC DR 18 Pipe	LF	379	$197.12	$74,708.48
154	801.XVI.3	12" MJ 45 Deg Bend	EA	20	$2,841.12	$56,822.40
155	801.XVI.7	12" Pipe Bell Restraint	EA	15	$869.42	$13,041.30
156	801.XVI.3	12" X 4" MJ Tee	EA	1	$3,045.34	$3,045.34
157	801.XVI.1	2" PVC Pipe	LF	17	$92.03	$1,564.51
158	801.XVII.3	Connect to Existing Tee	EA	1	$2,309.43	$2,309.43
159	801.XVII.3	Connect to Existing 12" FM	EA	9	$3,781.47	$34,033.23
160	801.XVII.3	Connect to Existing 4” FM	EA	1	$2,327.98	$2,327.98
161	801.XVI.2	Pump Truck	HR	20	$350.09	$7,001.80
162	801.XVII.1	12" MJ Gate Valve (contingency)	EA	2	$7,740.58	$15,481.16
		SUBTOTAL: E – JEA FORCE MAIN				$1,704,861.78

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	F	JEA MISC				
Item No.	**Pay Item**	**Pay Item Description**	**Units**	**Quantity**	**Cost Per Unit**	**Total Cost**
163	408	A-3 Backfill (Contingency)	LF	1	$15,000	$15,000.00
164	408	Testing Allowance	LS	1	$10,000	$10,000.00
		SUBTOTAL: F – JEA MISC				$25,000.00

BID SUMMARY	
PARTS A, B **SUBTOTAL =**	$7,549,148.88
PARTS C, D, E, F **SUBTOTAL =**	$3,409,065.06
TOTAL BASE BID	$10,958,213.94

All specific cash allowances are included in the price(s) set forth above and have been computed in accordance with paragraph 11.02 of the General Conditions.

Unit prices have been computed in accordance with Paragraph 11.03.B of the General Conditions.

Bidder acknowledges that estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids. Final payment of all Unit Price Bid Items will be based on actual quantities as determined in the Contract Documents.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

6.01 Bidder agrees that the Work will be substantially complete within **420** calendar days after the date when the Contract Times commence to run as provided in paragraph 2.03 of the General Conditions, and completed and ready for final payment in accordance with paragraph 14.07.B of the General Conditions within **45** calendar days from the date of substantial completion. Total contract time shall be **465** calendar days; for everyday the work goes beyond substantial completion, a day will be removed from final completion so the total days equal 120 calendar days.

6.02 Bidder accepts the provisions of the Agreement as to liquidated damages in the event of failure to complete the Work within the times specified above, which shall be stated in the Agreement.

7.01 The following documents are attached to and made a condition of this Bid:

A. Bid Security in the form of a certified check of Bid Bond (Section 00 43 15)
B. Tabulation of Subcontractors & Suppliers (Section 00 43 35)
C. Florida Trench Safety Act Certification (Section 00 44 55)
D. Bidder's Qualification Statement (Section 00 45 13)
E. Non-Collusion Affidavit (Section 00 45 19)
F. Drug-Free Workplace Certificate (Section 00 45 20)
G. Public Entity Crimes Statement (Section 00 45 30)
H. Statement of Disputes, Litigation & Surety Completion (Section 00 45 35)
I. E-Verify Affidavit of Compliance (Section 00 45 40)

8.01 The terms used in this Bid with initial capital letters have the meanings indicated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

SUBMITTED on January 17, 20 24.

State Contractor License No. CUC1225672.

If Bidder is:

An Individual

Name (typed or printed): N/A

By: N/A

(*Individual's Signature*)

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

Doing business as: N/A

Business address: N/A

N/A

Phone No.: N/A Fax No.: N/A

A Partnership

Partnership Name: N/A

By: N/A

(Signature of general partner - attach evidence of authority to sign)

Name (typed or printed): N/A

Business address: N/A

N/A

Phone No.: N/A Fax No.: N/A

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A Corporation

Corporation Name: Reeves Construction Company

State of Incorporation: Georgia

Type (General Business, Professional, Service, Limited Liability): S-Corp

By: _____

(*Signature - attach evidence of authority to sign*)

Name (typed or printed): Scott Newman

Title: Assistant Secretary (CORPORATE SEAL)

Attest _____ Anthony L. Martino II -Secretary

(*Signature of Corporate Secretary*)

Business address: 100 Morgan Industrial Boulevard

Garden City, Georgia 31408

Phone No.: (912) 964-6513 Fax No.: (912) 964-6531

Date of Qualification to do business is 02/01/1955

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A Joint Venture

Joint Venturer Name: N/A

By: N/A

(*Signature of joint venture partner - attach evidence of authority to sign*)

Name (typed or printed): N/A

Title: N/A

Business address: N/A

N/A

Phone No.: N/A Fax No.: N/A

Joint Venturer Name: N/A

By: N/A

(*Signature - attach evidence of authority to sign*)

Name (typed or printed): N/A

Title: N/A

Business address: N/A

N/A

Phone No.: N/A Fax No.: N/A

Phone and FAX Number, and Address for receipt of official communications:

N/A

N/A

(Each joint venturer must sign. The manner of signing for each individual, partnership, and corporation that is a party to the joint venture should be in a manner indicated above.)

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SECTION 00 43 35

TABULATION OF SUBCONTRACTORS & SUPPLIERS

The undersigned states that the following is a full and complete list of the proposed subcontractors and suppliers on this Project and the class of work to be performed by each, and that such list will not be added to nor altered without written consent to the Owner through the Engineer.

	SUBCONTRACTOR OR SUPPLIER AND ADDRESS	CLASS OF WORK OR MATERIAL
1.	Kudzue 3 PO Box 1799, Yulee, FL 32041	Asphalt paving
2.	Curb Systems 101 Canova Ct., St. Augustine, FL, 32086	Concrete curb/flatwork
3.	KCE 7597 Nutty Buddy Circle, Glen St. Mary, FL, 32040	Erosion Control
4.	Standard Utilities 709 Gil Harbin Industrial Blvd., Valdosta, GA, 31601	Jack & Bore
5.	Hinson Electric 11609 Columbia Park Dr. West, Jacksonville, FL, 32258	Signals
6.	Rinker Materials 4190 Hwy 17, Green Cove Springs, FL, 32043	Precast & RCP
7.	Ferguson 9692 Florida Mining Blvd., Jacksonville, FL, 32257	Utility Materials

BIDDER: Reeves Construction Company

By: _____

Name: Scott Newman

Title: Assistant Secretary

Date: 01/17/2024

REEVES CONSTRUCTION COMPANY CORPORATE 1955 SEAL GEORGIA

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SECTION 00 43 35

TABULATION OF SUBCONTRACTORS & SUPPLIERS

The undersigned states that the following is a full and complete list of the proposed subcontractors and suppliers on this Project and the class of work to be performed by each, and that such list will not be added to nor altered without written consent to the Owner through the Engineer.

	SUBCONTRACTOR OR SUPPLIER AND ADDRESS	CLASS OF WORK OR MATERIAL
1.	P&P Striping 1741 Hwy 17, Pomona Park, FL, 32181	Pavement Marking & Signs
2.		
3.		
4.		
5.		
6.		
7.		

BIDDER: Reeves Construction Company

By: _____

Name: Scott Newman

Title: Assistant Secretary

Date: 01/17/2024

REEVES CONSTRUCTION COMPANY CORPORATE 1955 SEAL GEORGIA

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SECTION 00 44 55

FLORIDA TRENCH SAFETY ACT CERTIFICATION

Bidder acknowledges that included in the various items of the proposal and in the Total Bid Price are costs for complying with the Florida Trench Safety Act (90-96, Laws of Florida) as modified October 1, 2008. The Bidder further identifies the costs to be summarized below:

	Cost
1. Trench Safety Act Compliance	$ 6,000.00
2. Special Shoring	$ N/A

Identify method of compliance for Item #1: Trench Box

Identify or attach a copy of Special Shoring requirements for Item #2: N/A

The undersigned certifies that he/she is the Contractor who will perform the trench excavation for this project, and hereby gives written assurance that Contractor will comply with the applicable trench safety standards specifically set forth in Florida's Trench Safety Act, Laws of Florida, 90-96.

BIDDER: Reeves Construction Company

By: _____

Name: Scott Newman

Title: Assistant Secretary

REEVES CONSTRUCTION COMPANY CORPORATE 1955 SEAL GEORGIA

Sworn to and subscribed before me this 17 day of January, 2024.

_____
Notary Public

APRIL E. CONNER NOTARY PUBLIC GEORGIA EXPIRES 01/20/2026 MCINTOSH COUNTY

My Commission Expires: 01/20/2026

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SECTION 00 45 13

STATEMENT OF BIDDER'S QUALIFICATIONS

To: Nassau County Board of County Commissioners Project: Chester Road Intersection Improvements

Date: January 17, 2024 Bid No. NC23-064

The following experience record, as of date shown, shall be submitted to the County with the Bid Form. All questions shall be answered fully. Bidders who have qualified to bid on other projects for this County within the last 12 months need not resubmit this form unless specifically requested by the County. The contents of this form will be considered confidential to the extent allowed by applicable laws and regulations.

Name of Bidder: Reeves Construction Company

Business Address: 249 Industry Place
Street

St. Augustine	FL	32095
City	State	Zip Code

1. Number of years in business as a Contractor under the present:

   Business Name 69 years

   As Principal Contractor 69 years As a Sub-Contractor 69 years

2. Class of work you are equipped to perform: Grading, mass excavation, storm drainage systems, water systems, refuse systems, sanitary sewer systems, force main, curb and gutter, soils, cement and stone base.

3. Class of work you usually sublet: Clearing, Concrete and Asphalt Paving

4. Have any members of your concern ever operated under any other business name? Yes.
   If so, give details: R.B. Baker Construction

5. Have you ever failed to qualify as a responsible bidder? No. If so, give details.

6. Have you ever refused to enter into a contract after the award is made to you? No.
   If so, give details.

7. Have you ever failed to complete any work? No. If so, give details:

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8. Has any surety or financial institution ever experienced loss on your concern? No.

If so, give details: _____

9. Give name and address of the County, type of work, and the contract amount of at least three projects completed in the last three years:

	(1)	(2)	(3)
Project Owner:	See Attached List of Completed Projects > $1M		
Project Manager:			
Email:			
Phone No:			
Address:			
City, State, Zip:			
Type of Work:			
Contract Amt:	$	$	$

10. Give name and address of the County, type of work, and contract amount of projects now in process of construction:

	Name	Address	Type of Work	Contract Amount
A.	See Attached List of Active Projects > $1M			$
B.				$
C.				$
D.				$
E.				$

11. Indicate your experience in the construction of work similar to this project (if not demonstrated by Questions 9 and 10, above):

12. Give construction experience of principal individuals of your organization:

	Name	Position	Years of Experience	Size and Type of Work
A.	Principal Individuals for Reeves Construction Company - Coastal Region - See Attached Resumes for the following:			

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B. Scott Newman, Region Manager, Asst. Secretary

C. Paul Booth, Construction Manager

D. Michael Bell, Project Manager

E. James Davis, Superintendent

13. Are there any judgments, suits, or claims pending against you? No. If so, give details:

14. Does your organization operate as a corporation, partnership, or individual? S-Corporation

A. If a corporation, when incorporated: 2/1/1955

In which state incorporated: Georgia

List name, title, and address of all officers:

	Name	Title	Address
(1)	Zach Green	* President	* Corporate Office: Reeves Construction Company 250 Plemmons Road Duncan, SC 29334
(2)	Fred Shelton	* CFO & Treasurer	
(3)	Anthony L. Martino, II	* Secretary	
(4)	Robert Loar	* Vice President	**Coastal Region: Reeves Construction Company 100 Morgan Industrial Boulevard Garden City, GA 31408
(5)	Scott Newman	**Asst. Manager	

B. If a partnership, date of organization: N/A

General, Limited, or Associated? N/A

List name, address, and proportional interest of parties:

	Name	Address	Proportional Interest
(1)	Colas, Inc.,	73 Headquarters Plaza, North Tower, 10th Floor, Morristown, NJ 07960	100%
(2)			
(3)			
(4)			
(5)			

15. If requested prior to award of contract, provide to the County an accurate, up-to-date, condensed financial statement on a separate sheet attached to these qualifications of the individual, co-partnership, or corporation.

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The undersigned hereby declares and certifies that the foregoing is a true statement of the experience and condition of the organization, therein first given and that any agency or individual herein named authorized to supply any information as may be deemed necessary to verify this statement.

Signed _____

Title Scott Newman, Asst. Secretary

REEVES CONSTRUCTION COMPANY CORPORATE 1955 SEAL GEORGIA

Subscribed and sworn to before me this 17th

day of January, 20 24

_____ Notary Public

McIntosh County, Georgia

My Commission expires 01-20-2026

APRIL E. CONNER NOTARY EXPIRES GEORGIA 01/20/2026 PUBLIC MCINTOSH COUNTY

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

SECTION 00 45 19

NONCOLLUSION AFFIDAVIT

TO: The Nassau County Board of County Commissioners, herein called the "County."

Pursuant to bidding requirements for the work titled "Chester Road Intersection Improvements Bid No. NC23-064,"

the enclosed contract documents shall be provided to the County.

State of Georgia

County of Chatham

Scott Newman, being first duly sworn, deposes, and says that:

A. He is Assistant Secretary (officer's title) of Reeves Construction Company (company name), the Bidder that has submitted the attached bid;

B. He is fully informed respecting the preparation and contents of the attached bid and of all pertinent circumstances respecting such bid;

C. Such bid is genuine and is not a collusive or sham bid;

D. Neither the said Bidder nor any of its officers, partners, owners, agents, representatives, employees, or parties in interest, including this affiant, has in any way colluded, conspired, connived, or agreed, directly or indirectly with any other Bidder, firm, or person to submit a collusive or sham bid in connection with the contract for which the attached bid has been submitted or to refrain from bidding in connection with such contract, or has in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other Bidder, firm, or person to fix the price or prices in the attached bid or of any other Bidder, or to fix any overhead, profit, or cost element of the bid price or the bid price of any other Bidder, or to secure through any collusion, conspiracy, connivance, or unlawful agreement any advantage against the Nassau County Board of County Commissioners or any person interested in the proposed contract; and

E. The price or prices quoted in the attached bid are fair and proper and are not tainted by any collusion, conspiracy, connivance, or unlawful agreement on the part of the Bidder or any of its agents, representatives, owners: employees, or parties in interest, including this affiant.

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(Signed) _____

Scott Newman, Asst. Secretary

REEVES CONSTRUCTION COMPANY CORPORATE 1955 SEAL GEORGIA

Subscribed and sworn to before me
this 17th day of January, 2024.

_____
Notary Public

APRIL E. CONNER NOTARY PUBLIC MCINTOSH COUNTY GEORGIA EXPIRES 01/20/2026

01/20/2026
My commission expires

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

SECTION 00 45 20

DRUG FREE WORKPLACE CERTIFICATE

I, the undersigned, in accordance with Florida Statute 287.087, hereby certify that _____

Reeves Construction Company (print or type name of firm)

- Publishes a written statement notifying that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance in the workplace named above, and specifying actions that will be taken against violations of such prohibition.

- Informs employees about the dangers of drug abuse in the workplace, the firm's policy of maintaining a drug free working environment, and available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug use violations.

- Gives each employee engaged in providing commodities or contractual services that are under bid or proposal, a copy of the statement specified above.

- Notifies the employees that as a condition of working on the commodities or contractual services that are under bid or proposal, the employee will abide by the terms of the statement and will notify the employer of any conviction of, plea of guilty or nolo contendere to, any violation of Chapter 1893, or any controlled substance law of the State of Florida or the United States, for a violation occurring in the work place, no later than five (5) days after such conviction, and requires employees to sign copies of such written statement to acknowledge their receipt.

- Imposes a sanction on, or requires the satisfactory participation in, a drug abuse assistance or rehabilitation program, if such is available in the employee's community, by any employee who is so convicted.

- Makes a good faith effort to continue to maintain a drug free work place through the implementation of a drug free work place program.

"As a person authorized to sign a statement, I certify that the above-named business, firm, or corporation complies fully with the requirements set forth herein."

REEVES CONSTRUCTION COMPANY CORPORATE 1955 SEAL GEORGIA

Scott Newman

Authorized Signature

01/17/2024

Date Signed

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

State of: Georgia

County of: Chatham

Sworn to and subscribed before me this 17th day of January, 2024.

Personally known ✓ or Produced Identification _____

(Specify type of Identification)

April E. Conner

Notary Public

APRIL E. CONNER NOTARY PUBLIC MCINTOSH COUNTY GEORGIA EXPIRES 01/20/2026

01/20/2026

My commission expires

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SECTION 00 45 30

SWORN STATEMENT UNDER SECTION 287.133(3)(a), FLORIDA STATUTES, ON PUBLIC ENTITY CRIMES

(To be signed in the presence of a notary public or other officer authorized to administer oaths.)

STATE OF Georgia
COUNTY OF Chatham

Before me, the undersigned authority, personally appeared Scott Newman, who being by me first duly sworn, made the following statement:

1. The business address of Reeves Construction Company (firm name of Bidder/Contractor) is 100 Morgan Industrial Boulevard, Garden City, GA 31408

2. My relationship to Reeves Construction Company (firm name of Bidder/Contractor) is Assistant Secretary (relationship such as sole proprietor, partner, president, vice president)

3. I understand that a public entity crime as defined in Section 287.133 of the Florida Statutes includes a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity in Florida or with an agency or political subdivision of any other state or with the United States, including, but not limited to, any bid or contract for goods or services to be provided to any public entity or such an agency or political subdivision and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.

4. I understand that "convicted" or "conviction" is defined by the statute to mean a finding of guilt or a conviction of a public entity crime, with or without adjudication or guilt, in any federal or state trial of record relating to charges brought by indictment or information after July 1, 1989, as a result of a jury verdict, nonjury trial, or entry of a plea of guilty or nolo contendere.

5. I understand that "affiliate" is defined by the statute to mean (1) a predecessor or successor of a person or a corporation convicted of a public entity crime; or (2) an entity under control of any natural person with is active in management of the entity and who has been convicted of a public entity crime; (3) those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate; or (4) a person or corporation who knowingly entered into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months.

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6. Neither the Bidder/Contractor nor any officer, director, executive, partner, shareholder, employee, member or agent who is active in the management of the Bidder/Contractor, nor any affiliate of the Bidder/Contractor, has been convicted of a public entity crime subsequent to July 1, 1989.

(Draw a line through Paragraph 6 if Paragraph 7 below applies.)

~~7. There has been a conviction of a public entity crime by Bidder/Contractor, or an officer, director, executive, partner, shareholder, employee, member or agent of the Bidder/Contractor who is active in the management of the Bidder/Contractor or an affiliate of the Bidder/Contractor. A determination has been made pursuant to 287.133(3) by order of the Division of Administrative Hearings that it is not in the public interest of the name of the convicted person or affiliate to appear on the convicted vendor list.~~
~~The name of the convicted person or affiliate is _____.~~

~~A copy of the order of the Division of Administrative Hearings is attached to this statement.~~

(Draw a line through Paragraph 7 if Paragraph 6 above applies.)

Scott Newman
(Signature)

REEVES CONSTRUCTION COMPANY CORPORATE 1955 SEAL GEORGIA

Sworn to and subscribed before me in the State and County first mentioned above on the 17th day of January, 2024

April E. Conner
Notary Public

APRIL E. CONNER NOTARY PUBLIC MCINTOSH COUNTY EXPIRES GEORGIA 01/20/2026

(affix seal)

01/20/2026
My commission expires

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SECTION 00 45 35

BIDDER'S STATEMENT OF DISPUTES, LITIGATION, ARBITRATION, AND SURETY COMPLETION, LAST THREE (3) YEARS

Project	Name and Address of Owner or Engineer	Name and Phone of Owner or Engineer Representative	Date of Contract	Amount	Status
None					

(Signed) _____

Print Name Scott Newman, Asst. Secretary

REEVES CONSTRUCTION COMPANY CORPORATE 1955 SEAL GEORGIA

Subscribed and sworn to before me this 17th day of January, 2024

_____
Notary Public

01/20/2026
My commission expires

APRIL E. CONNER NOTARY PUBLIC MCINTOSH COUNTY GEORGIA EXPIRES 01/20/2026

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REEVES CONSTRUCTON COMPANY

SECRETARY'S CERTIFICATE

I, the undersigned, Secretary of Reeves Construction Company (the "Corporation"), a corporation duly organized and existing under the laws of the State of Georgia, having a place of business located in Duncan, South Carolina, HEREBY CERTIFY that the following is a true copy of certain resolutions duly adopted by the Board of Directors of the said corporation in accordance with the Articles of Incorporation and the By-Laws, recorded in the minutes of a meeting of said Board of Directors and have not subsequently been rescinded or modified:

A. ELECT OFFICERS

RESOLVED, that the following persons be, and each of them hereby is, elected to the office(s) set forth opposite his or her name, to serve as provided in the Bylaws and until his or her respective successor shall have been chosen and qualified, or until his or her earlier resignation or removal:

Zach Green	President
Fred Shelton	Chief Financial Officer and Treasurer
Tracy R. Loyd	Vice President of Finance
Anthony L. Martino, II	Secretary
Robert Loar	Vice President
Todd Quigg	Vice President
Dean Hayman	Assistant Secretary
Dallas Suggs	Assistant Secretary
Scott Newman	Assistant Secretary
Ron Barger	Assistant Secretary
Roy S. Helms, Jr.	Assistant Secretary
Michael L. O'Shields, Jr.	Assistant Secretary
Jennifer Yawn	Assistant Secretary
Joshua T. Campbell	Assistant Secretary
Ryan Terry	Assistant Secretary
Lee Barrack	Assistant Secretary

B. BID TENDERS: GENERAL

RESOLVED, that any officer of the Corporation be and they hereby are authorized in the name and on behalf of the Corporation, under its corporate seal or otherwise (i) to prepare proposals and bids for the supplying of construction materials and the performance by itself or in joint venture, of work of whatsoever nature in connection with the construction or paving of highways, roads and airports and in connection with earthworks and civil engineering projects of all kinds, together with all work incidental thereto, (ii) to execute and submit any and all such proposals and bids to any governmental authority, instrumentality, or agency of the United States, its several states, territories and possessions, including without

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limitation, any municipality or other political or corporate subdivision thereof, and to any corporation, partnership, sole proprietorship, or other business entity, (iii) in connection with any such submission, to deliver bid deposits or bonds as may be required and (iv) to execute and deliver definitive agreements binding the Corporation to perform work in accordance with any proposals and bids authorized hereby.

C. PREQUALIFICATION FILINGS

RESOLVED, that any officer of the Corporation be and they hereby are authorized in the name and on behalf of the Corporation, under its corporate seal or otherwise, to do any and all things and take any and all actions as may be necessary or advisable in order to prequalify the Corporation for consideration by appropriate parties for the performance of work within the scope of its business and to qualify the Corporation to submit proposals and bids to perform such work, including without limitation, the execution and delivery of such "prequalification" forms and applications as may be appropriate or required in the circumstance.

D. AUTHORITY TO PREPARE AND SIGN BID DOCUMENTS UP TO A MAXIMUM LIMIT OF $5,000,000 PER BID

WHEREAS, the Board of Directors has been advised by the President of the Corporation that Jay Hammond should have authority to prepare and sign bid documentation pertaining to construction projects on behalf of the Corporation, whereby the total monetary limit of each bid in question does not exceed $5,000,000.

RESOLVED, Jay Hammond is authorized in the name and on behalf of the Corporation, under its corporate seal or otherwise (i) to prepare proposals and bids for the supplying of construction materials and the performance by itself or in joint venture, of work of whatsoever nature in connection with the construction or paving of highways, roads and airports and in connection with earthworks and civil engineering projects of all kinds, together with all work incidental thereto, whereby the total monetary limit of each bid in question does not exceed $5,000,000, (ii) to execute and submit any and all such proposals and bids to any governmental authority, instrumentality, or agency of the United States, its several states, territories and possessions, including without limitation, any municipality or other political or corporate subdivision thereof, and to any corporation, partnership, sole proprietorship, or other business entity, whereby the total monetary limit of each bid in question does not exceed $5,000,000, (iii) in connection with any such submission, to deliver bid deposits or bonds as may be required, whereby the total monetary limit of each bid in question does not exceed $5,000,000, and (iv) to execute and deliver definitive agreements binding the Corporation to perform work in accordance with any proposals and bids authorized hereby, whereby the total monetary limit of each bid in question does not exceed $5,000,000.

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E. AUTHORITY TO SIGN CONSTRUCTION CONTRACT DOCUMENTS UP TO A MAXIMUM LIMIT OF $5,000,000 PER CONTRACT

WHEREAS, the Board of Directors has been advised by the President of the Corporation that Jay Hammond should have authority to sign any construction contract documents on behalf of the Corporation, whereby the total monetary limit of each contract in question does not exceed $5,000,000.

RESOLVED, that Jay Hammond is authorized in the name and on behalf of the Corporation, under its corporate seal or otherwise, to execute and deliver any construction contract documents binding the Corporation, whereby the total monetary limit of each contract in question does not exceed $5,000,000.

IN WITNESS WHEREOF, I have hereunto subscribed my name this 29th day of March, 2023.

Anthony L. Martino, II, Secretary

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Reeves Construction Company - Coastal Region

Completed Projects >$1M

Project Name & Location	Contract Amount	Prime or Sub	Project Type	Owner Type	Year Started	Year Completed	Owner's Representative	Owner Name & Location
Rehabilitation of Runway 6/24 Statesboro-Bulloch County Airport Statesboro, GA	$ 1,488,238	Prime	Asphalt Paving	State/ DOT	2023	2023	Bulloch County Commissioners c/o Statesboro-Bulloch County Airport 601 Airport Blvd. Statesboro, GA 30461	Bulloch County Commissioners c/o Statesboro-Bulloch County Airport 601 Airport Blvd. Statesboro, GA 30461
Pine Barron Road Horizon Savannah Logistics Park Bloomingdale, GA	$ 1,126,265	Sub	Asphalt Milling	Private / Commercial	2023	2023	Morgan Corp. 401 O'Leary Road Port Wentworth, GA 31407	CA Ventures 1790 Howard Hughes Landing, Ste. 400 The Woodlands, TX 77380
GDOT M006375 Effingham SR21 Resurface	$ 2,651,969	Prime	Asphalt Paving	State/ DOT	2023	2023	Georgia DOT, One Georgia Center, 600 Peachtree Street, NW, Atlanta, GA 30301	Georgia DOT, One Georgia Center, 600 Peachtree Street, NW, Atlanta, GA 30301
GPA GCT Gate 3 & 8 Improvements (2209-1126)	$ 1,275,000	Prime	Port Work	State/ DOT	2023	2023	Georgia Ports Authority PO Box 2406, Savannah, GA 31402 Chris Novack, Sr. Director of Engineering/Facilities Maintenance (912-964-3811)	Georgia Ports Authority PO Box 2406, Savannah, GA 31402 Chris Novack, Sr. Director of Engineering/Facilities Maintenance (912-964-3811)
CenterPoint Industrial City Gardens Bldg. 2 Site Work 2505 Dean Forest Road Garden City, GA 31408	$ 3,320,863	Sub	Site Work	Private / Commercial	2023	2023	Evans General Contractors, LLC 3050 Northwinds Pkwy Suite 200 Alpharetta, GA 30009	CenterPoint Dean Forest LLC 1808 Swift Drive Oakbrook, IL 60523
SR 67 Bypass, Bulloch County, GA GDOT M006219	$ 6,810,400	Prime	Asphalt Paving	State/ DOT	2023	2023	Georgia DOT, One Georgia Center, 600 Peachtree Street, NW, Atlanta, GA 30301	Georgia DOT, One Georgia Center, 600 Peachtree Street, NW, Atlanta, GA 30301
Superior Landfill Cell 2A-5A, 3001 Little Neck Road, Savannah, GA 31419	$ 1,684,546	Prime	Landfill	Private / Commercial	2022	2023	Hodges, Harbin, Newberry & Tribble, Inc., 3920 Arkwright Rd. Suite 101, Macon, GA 31210 (478) 743-7175 Will Granich, PE	WM National Services, Inc. PO Box 4745 Portland, OR 97208-4745
Bulloch County Road Resurfacing 2022	$ 7,945,695	Prime	Asphalt Paving	Other /Gov /Municipal	2022	2023	Bulloch County Board of Commissioners 115 North Main Street Statesboro, GA 30458 Brad Deal, County Engineer 912-764-6245	Bulloch County Board of County Commissioners Statesboro, GA 30458 Faye Bragg 912-764-6248
Hwy 80 & Coleman Boulevard Improvements aka Sunport 95 - Building 1&2, 1005 & 1008 Bourne Avenue, Pooler, GA 31322	$ 5,237,834	Sub	Highway Widening & Rehab	private / commercial	2022	2023	Evans General Contractors 3050 Northwinds Parkway, Suite 200, Alpharetta, GA 30009	Sunport Holdings, LLC 6101 Carnegie Blvd, #180 Charlotte, NC 28209
Rockingham Farms Onsite Infrastructure, Veterans Parkway, Savannah, GA	$ 1,201,202	Sub	Asphalt Commercial	Private / Commercial	2022	2023	Preferred Site Construction 9521 Hwy. 301 South Statesboro, GA 30458 Garth Long	Rockingham Farms, LLC, 2702 Whatley Avenue, Suite B-1, Savannah, GA 31404
Supply Chain - Old Augusta Road, Rincon, GA 31326	$ 9,800,905	Sub	Site Work	Private/ Commercial	2022	2023	Evans General Contractors 3050 Northwinds Pkwy Suite 200 Alpharetta, GA 30009	Cowan Investments, LLC 1208 Wilmington Island Road Savannah, GA 31410
Eagle Point Landfill Cell 16C, 8880 Old Federal Road, Cumming, GA 30107	$ 3,500,000	Prime	Landfill & Waste Management	Private/Commercial	2022	2023	GFL Environmental, 880 Old Federal Road, Cumming, GA 30107	Eagle Point Landfill, LLC, 880 Old Federal Road, Cumming, GA 30107
CenterPoint Industrial City Gardens - Building 1, 2200 Dean Forest Road Garden City, GA 31408	$ 4,250,603	Sub	Site Work	Private/ Commercial	2022	2023	Evans General Contractors 3050 Northwinds Parkway, Suite 200, Alpharetta, GA 30009	CenterPoint Dean Forest LLC 1808 Swift Drive Oakbrook, IL 60523

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Project Name & Location	Contract Amount	Prime or Sub	Project Type	Owner Type	Year Started	Year Completed	Owner's Representative	Owner Name & Location
Performance Team/Damco Transload and Storage Yard 2470 Dean Forest Road Garden City, GA 31408	$ 5,977,304	Sub	Site Work	Private/ Commercial	2022	2023	Evans General Contractors 3050 Northwinds Parkway, Suite 200, Alpharetta, GA 30009	CenterPoint Dean Forest LLC 1808 Swift Drive Oakbrook, IL 60523
Panattoni Building B, Savannah Portside International Parkway, Bloomingdale, GA 31302	$ 6,435,176	SUB	Site Work	private / commercial	2022	2023	Evans General Contractors 3050 Northwinds Parkway, Suite 200, Alpharetta, GA 30009	Effingham Port Side Industrial Park Phase II Owner, LLC 9040 Roswell Road, Ste. 420 Atlanta, GA 30350
Tattnall County Resurfacing - 2022 LMIG	$ 1,254,860	Prime	Asphalt Paving	Other /Gov /Municipal	2022	2023	Tattnall County Board of Commissioners 108 Brazell Street Reidsville, GA 30453 Dennis Odom	Tattnall County Board of Commissioners 108 Brazell Street Reidsville, GA 30453 Dennis Odom
Commerce Boulevard Truck Lot 6069 Commerce Boulevard Garden City, GA 31408	$ 1,295,562	Sub	Site Work	Private/ Commercial	2022	2023	CenterPoint Garden City, LLC 1808 Swift Drive Oak Brook, IL 60523	Evans General Contractors 3050 Northwinds Pkwy, Suite 200 Alpharetta, GA 30009
CenterPoint Industrial City Gardens - Landfill Removal, Dean Forest Road, Garden City, GA 31408	$ 1,351,277	Sub	Site Work	Private/ Commercial	2022	2023	CenterPoint Dean Forest LLC 1808 Swift Drive Oakbrook, IL 60523	Evans General Contractors 3050 Northwinds Pkwy, Suite 200 Alpharetta, GA 30009
GPA Offsite Container Storage, Statesboro	$ 1,284,137	Prime	Port Work	Private/ Commercial	2022	2023	Georgia Ports Authority PO Box 2406, Savannah, GA 31402 Chris Novack, Sr. Director of Engineering/Facilities Maintenance (912-964-3811)	Georgia Ports Authority PO Box 2406, Savannah, GA 31402 Chris Novack, Sr. Director of Engineering/Facilities Maintenance (912-964-3811)
Broe 1E - Area 1 1000 Gateway Parkway Rincon, GA 31326	$ 1,782,537	Sub	Site Work	Private/ Commercial	2021	2023	Bregid Investors 4, LLC 252 Clayton Street Denver, CO 80206	Evans General Contractors, LLC 2710 Old Milton Parkway, Suite 200 Alpharetta, GA 30009
Statesboro-Bulloch Airport Taxiway Rehab (GDOT Project No. AP021-9046-38(031) Bulloch PID-T007536	$ 1,112,254	Prime	Asphalt Paving	Private w/Federal Funding	2021	2023	Goodwyn Mills Cawood 1906 East Three Notch Street Andalusia, AL 36421 (334) 222-2699 Jeff Hester, Engineer	Bulloch County Board of Commissioners Roy Thompson, Chairman 115 North Main Street Statesboro, GA 30458
Garden City Terminal West Expansion, Phase 1, Garden City, GA	$ 5,832,827	Prime	Port Work	Port & Railroad	2021	2023	AECOM 22 Barnard Street, Suite 240 Savannah, GA 31401 Andrew Dowding	Georgia Ports Authority PO Box 2406 Savannah, GA 31402 Chris Novack, Sr. Director of Engineering/Facilities Maintenance, (912-964-3811)
Prosperity Drive/307 Connector	$ 8,753,900	Sub	New Highway Construction	Private/ Commercial	2021	2023	Graycor Construction Co. Inc Two Mid America Plaza, Suite 400 Oakbrook Terrace, Illinois 60181	SEEFRIED Industrial Properties, Inc. 2201 East Camelback Road, Ste. 225B Phoenix, AZ 85016
SAV4 Project Live Oak, 800 Pine Meadow Drive, Pooler, GA 31322	$ 1,137,795	Sub	Site Work	Private/ Commercial	2021	2023	Graycor Construction Co. Inc Two Mid America Plaza, Suite 400 Oakbrook Terrace, Illinois 60181	SEEFRIED Industrial Properties, Inc. 2201 East Camelback Road, Ste. 225B Phoenix, AZ 85016
Southeast Gateway Industrial, 380 & 394 Fort Argyl Road, Savannah, Chatham Co, GA	$ 15,556,691	SUB	Grading & Excavation	Private/ Commercial	2021	2023	McShane Construction Company 3365 Skyway Drive, Suite 300 Auburn, AL	Conor Southeast Gateway Partner, LLC
60 Triple B Trail Completion, Jimmy DeLoach Parkway, Pooler, GA 31322	$ 4,622,041	Sub	Site Work	Private/ Commercial	2021	2023	Duke Realty Limited Partnership 3715 Davinci Court, Suite 300 Peachtree Corners, GA 30092	Duke Realty Limited Partnership 8711 River Crossing Blvd Indianapolis, IN 46240

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Project Name & Location	Contract Amount	Prime or Sub	Project Type	Owner Type	Year Started	Year Completed	Owner's Representative	Owner Name & Location
GPA CB 1 Realignment, Garden City, Chatham Co, GA	$ 2,123,324	SUB	Port work	Private/ Commercial	2021	2023	The Industrial Company	Georgia Ports Authority PO Box 2406, Savannah, GA 31402 Chris Novack, Sr. Director of Engineering/Facilities Maintenance (912-964-3811)
Broe Building 1H - Area 1, 1009 Gateway Parkway, Rincon, GA 31326	$ 6,172,080	Sub	Site Work	Private/ Commercial	2021	2023	Evans General Contractors 2710 Old Milton Parkway, Ste. 200 Alpharetta, GA 30009 Seth Cannon (229) 220-5795	Bregid Investors 2, LLC 252 Clayton Avenue Denver, CO 80206
Superior Landfill & Recycling Center Cells 2A-5A, Savannah, Chatham Co, GA	$ 3,178,000	Prime	Landfill & Waste Management	Private/ Commercial	2021	2023	Atlantic Coast Consulting, Inc, 7 East Congress Street, Ste. 801 Savannah, GA 31401	Waste Management of Georgia, 7001 Little Neck Road, Savannah, GA
SPIP Building C, Panattoni 500, Old River Road, Bloomingdale, GA	$ 4,198,628	Sub	Site Work	Private/ Commercial	2020	2023	Evans General Contractors 2710 Old Milton Parkway, Ste. 200 Alpharetta, GA 30009 Seth Cannon (229) 220-5795	Effingham Port Side Industrial Park Phase 1 Owner, LLC 9040 Roswell Road Atlanta, GA 30350
Richmond Hill Connector Road	$ 3,982,350	Prime	Street Widening & Rehab	Other /Gov /Municipal	2020	2023	Hussey Gay Bell Engineers Savannah, GA	City of Richmond Hill 40 Richard Davis Drive Richmond Hill, GA 31324
FDOT-SR 21 Reconstruction/Widening	$ 19,077,076	Prime	Highway Widening & Rehab	State/DOT	2019	2023	Florida Dept. of Transportation, District 2, Lake City	Florida Dept. of Transportation Tallahassee, FL
#819 Love's Travel Stop 2600 GA 21, Rincon, GA	$ 1,034,036	Sub	Asphalt Commercial	Private/ Commercial	2021	2022	Asa Carlton 100 Highpoint Park Way Braselton, GA 30517	Mill Creek Construction Company 347 Woodrum Road Statesboro, GA 30461
St. Marks Landfill - Cell 3 St. Augustine, FL	$ 2,382,667	Prime	Landfill & Waste Management	Private/ Commercial	2021	2022	Hodges, Harbin, Newberry & Tribble, Inc 3920 Arkwright Rd. Suite 101 Macon, GA 31210 (478) 743-7175 Will Granich, PE	Republic Services of Florida, LP St. Marks Blvd. Landfill 999 St. Marks Pond Blvd St. Augustine, FL 32905
GDOT Call 017 Tattnall County SR 73, Glennville, GA	$ 3,020,000	Prime	Asphalt Paving	State/DOT	2021	2022	Georgia DOT, One Georgia Center, 600 Peachtree Street, NW, Atlanta, GA 30301	Georgia DOT, One Georgia Center, 600 Peachtree Street, NW, Atlanta, GA 30301
CR209 - CR 315B to Henley Road - Shoulder & Safety Improvements, Green Cove Springs, FL	$ 1,039,000	Prime	Street Widening & Rehab	Other /Gov /Municipal	2021	2022	Clay County Board of Commissioners 477 Houston Street Green Cove Springs, FL 32043 Howard Wanamaker, County Mgr. 904-278-3766	Clay County Board of Commissioners 477 Houston Street Green Cove Springs, FL 32043
Bulloch County Road Resurfacing 2021	$ 1,443,100	Prime	Asphalt Surfacing	Other /Gov /Municipal	2021	2022	Bulloch County Board of Commissioners 115 North Main Street Statesboro, GA 30458 Brad Deal, County Engineer 912-764-6245	Bulloch County Board of County Commissioners Statesboro, GA 30458 Faye Bragg 912-764-6248
Evans County SR 73, GDOT #M005337 Claxton, GA	$ 2,314,170	Prime	Asphalt Paving	State/DOT	2021	2022	Georgia DOT, One Georgia Center, 600 Peachtree Street, NW, Atlanta, GA 30301	Georgia DOT, One Georgia Center, 600 Peachtree Street, NW, Atlanta, GA 30301
Bulloch County SR 26, GDOT #M006084, Portal, GA	$ 2,010,874	Prime	Asphalt Paving	State/DOT	2021	2022	Georgia DOT, One Georgia Center, 600 Peachtree Street, NW, Atlanta, GA 30301	Georgia DOT, One Georgia Center, 600 Peachtree Street, NW, Atlanta, GA 30301

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Project Name & Location	Contract Amount	Prime or Sub	Project Type	Owner Type	Year Started	Year Completed	Owner's Representative	Owner Name & Location
GPA Rail Operations - IMMC Pkg 6, Garden City, Chatham County, GA	$ 1,581,472	SUB	Site Work	Private/ Commercial	2021	2022	Choate Construction Co - Savannah 101 West Mulberry Blvd, Suite 200 Savannah, GA 31407	Georgia Ports Authority PO Box 2406, Savannah, GA 31402 Chris Novack, Sr. Director of Engineering/Facilities Maintenance (912-964-3811)
GPA GCT-IMMC Pkg 5 Rail Bldg. Rd	$ 1,437,329	Prime	Port work	Port & Railroad	2021	2022	Hussey Gay Bell, 329 Commercial Drive, Savannah, GA 31406	Georgia Ports Authority PO Box 2406, Savannah, GA 31402 Chris Novack, Sr. Director of Engineering/Facilities Maintenance (912-964-3811)
Coastal Commerce Center, Garden City, GA	$ 1,488,221	Sub	Stabilization	Private/ Commercial	2021	2022	Eagle Excavation Atlantic, 8102 Old State Hwy. 21, Suite 102 Pt. Wentworth, GA	Constantine Partners, LLC 5690 White Cloud Circle Westlake, CA 91362
SAV Site Clearing & Parking (Sav/HH International Airport)	$ 2,902,850	Prime	General Construction	Airport	2021	2022	Savannah Airport Commission, 400 Airways Avenue Savannah, GA 31408	City of Savannah 305 Fahm Street Savannah, GA 31402
GDOT Call 011 I-16 Pavement Rehab	$ 21,671,829	Prime	Asphalt Resurfacing	State/DOT	2020	2022	Georgia DOT, One Georgia Center, 600 Peachtree Street, NW, Atlanta, GA 30301	Georgia DOT, One Georgia Center, 600 Peachtree Street, NW, Atlanta, GA 30301
Loves Travel Stop	$ 1,301,482	Sub	General Construction	Industrial & Commercial	2020	2022	WH Bass, Inc, 11300 John's Creek Parkway, Ste. 100 John's Creek GA 30097	Loves Travel Stop & Country Stores, Inc. 10601 N. Pennsylvania, Oklahoma City, OK 73120
Construction of Improvements for SR-313 at US-1	$ 4,347,700	Prime	Highway Widening & Rehab	Public Works & Infrastructure	2020	2022	St. Johns County BOCC, St. Augustine, FL (904) 209-0150	St. Johns County BOCC, St. Augustine, FL (904) 209-0150
GDOT Call 002 SR 144 Roundabout	$ 6,047,000	Prime	Highway Widening & Rehab	State/DOT	2019	2022	Georgia DOT, One Georgia Center, 600 Peachtree Street, NW, Atlanta, GA 30301	Georgia DOT, One Georgia Center, 600 Peachtree Street, NW, Atlanta, GA 30301
Chatham County, SR 17, Pooler, GA GDOT #M006165	$ 3,334,210	Prime	Asphalt Paving	State/DOT	2021	2021	Georgia DOT One Georgia Center 600 Peachtree Street, NW Atlanta, GA 30301	Georgia DOT One Georgia Center 600 Peachtree Street, NW Atlanta, GA 30301
Cherokee Co. Landfill Cell 7	$ 1,427,000	Prime	Landfill & Waste Management	Private/ Commercial	2021	2021	Hodges, Harbin, Newberry & Tribble, Inc. Consulting Engineers, 17 Park of Commerce Blvd, Ste. 110, Savannah, GA 31405 Contact: Ryan Willoughby PE	Waste Pro of GA, Inc. dba Cherokee C&D Landfill, 6285 Ball Ground Hwy, Ball Ground, GA 30107
Love's Travel Stop/Hardees - #893 - Garden City	$ 3,339,437	Sub	Site Utility Work, Asphalt Paving	Private/ Commercial	2020	2021	J.C. Curtis Construction Company, LLC, 1507 Wilder Street Chattanooga, TN 37406	Loves Travel Stop & Country Stores, Inc. 10601 N. Pennsylvania, Oklahoma City, OK 73120
Tradeport East Building E/Hooker Furniture, Midway, GA	$ 4,342,944	Sub	Site Work	Private/ Commercial	2020	2021	Evans General Contractors 2710 Old Milton Parkway, Ste. 200 Alpharetta, GA 30009 Seth Cannon (229) 220-5795	Tradeport East, LLC 40 Harbor Park Dr, N, Port Washington, NY 11050
Bulloch Co Rd Resurfacing 2020	$ 1,877,800	Prime	Asphalt Resurfacing	Public Works & Infrastructure	2020	2021	Bulloch County Board of Commissioners 115 North Main Street Statesboro, GA 30458 Brad Deal, County Engineer 912-764-6245	Bulloch County Board of County Commissioners Statesboro, GA 30458 Faye Bragg 912-764-6248

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Project Name & Location	Contract Amount	Prime or Sub	Project Type	Owner Type	Year Started	Year Completed	Owner's Representative	Owner Name & Location
GDOT Call 014 Effingham SR21	$ 3,438,000	Prime	Asphalt Resurfacing	State/DOT	2020	2021	Georgia DOT, One Georgia Center, 600 Peachtree Street, NW, Atlanta, GA 30301	Georgia DOT, One Georgia Center, 600 Peachtree Street, NW, Atlanta, GA 30301
GDOT Call 004 Bulloch Co US301	$ 1,930,550	Prime	Asphalt Resurfacing	State/DOT	2020	2021	Georgia DOT, One Georgia Center, 600 Peachtree Street, NW, Atlanta, GA 30301	Georgia DOT, One Georgia Center, 600 Peachtree Street, NW, Atlanta, GA 30301
Eagle Point LF 2020 Construction	$ 4,412,509	Prime	Landfill & Waste Management	Private/ Commercial	2020	2021	Hodges, Harbin, Newberry & Tribble, Inc 3920 Arkwright Rd. Suite 101 Macon, GA 31210 (478) 743-7175 Will Granich, PE	Eagle Point Landfill, LLC., Forsyth County, GA
GPA-Intermodal Gate Expansion	$ 6,583,646	Prime	Port work	Port & Railroad	2020	2021	Georgia Ports Authority PO Box 2406, Savannah, GA 31402 Chris Novack, Sr. Director of Engineering/Facilities Maintenance (912-964-3811)	Georgia Ports Authority PO Box 2406, Savannah, GA 31402 Chris Novack, Sr. Director of Engineering/Facilities Maintenance (912-964-3811)
GPA 2020 Capacity Improvements PH 1	$ 1,906,587	Prime	Port work	Port & Railroad	2020	2021	Moffatt & Nichol, 2East Bryan Street, Suite 501, Savannah, GA 31401 (912) 231-0046	Georgia Ports Authority PO Box 2406, Savannah, GA 31402 Chris Novack, Sr. Director of Engineering/Facilities Maintenance (912-964-3811)
1500 Crossgate Amazon Site	$ 1,307,965	Sub	Site Work	Industrial & Commercial	2020	2021	Morgan Corporation, 401 O'Leary Road, Pt. Wentworth, GA 31407	Georgia Department of Transportation One Georgia Center 600 Peachtree Street, NW Atlanta, GA 30301
GDOT Call 003 Bulloch County Bridge Culvert	$ 1,080,278	Prime	Highway Widening & Rehab	State/DOT	2020	2021	Georgia DOT, One Georgia Center, 600 Peachtree Street, NW, Atlanta, GA 30301	Georgia DOT, One Georgia Center, 600 Peachtree Street, NW, Atlanta, GA 30301
GDOT Call 009 Bulloch SR67 Resurfacing	$ 3,266,226	Prime	Asphalt Resurfacing	State/DOT	2020	2021	Georgia DOT, One Georgia Center, 600 Peachtree Street, NW, Atlanta, GA 30301	Georgia DOT, One Georgia Center, 600 Peachtree Street, NW, Atlanta, GA 30301
GDOT Call 009 Effingham County	$ 1,409,200	Prime	Asphalt Resurfacing	State/DOT	2020	2021	Georgia DOT, One Georgia Center, 600 Peachtree Street, NW, Atlanta, GA 30301	Georgia DOT, One Georgia Center, 600 Peachtree Street, NW, Atlanta, GA 30301
Claxton-Evans County Airport	$ 3,345,985	Prime	Asphalt Paving	Airport	2020	2021	Croy Engineering, LLC 200 North Cob Parkway, Bldg. 400, # 413 Marietta, GA 30062	City of Claxton C/O Claxton-Evans County Airport Authority 389 Airport Road Claxton, GA 30417
SRITP Traffic Improvements	$ 2,852,970	Prime	Port work	Port & Railroad	2020	2021	Georgia Ports Authority PO Box 2406, Savannah, GA 31402 Chris Novack, Sr. Director of Engineering/Facilities Maintenance (912-964-3811)	Georgia Ports Authority PO Box 2406, Savannah, GA 31402 Chris Novack, Sr. Director of Engineering/Facilities Maintenance (912-964-3811)

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Project Name & Location	Contract Amount	Prime or Sub	Project Type	Owner Type	Year Started	Year Completed	Owner's Representative	Owner Name & Location
GPA-GCT 2019 Peak Season Capacity Improvements	$ 7,595,055	Prime	Port work	Port & Railroad	2019	2021	Moffatt and Nichol, 2 East Bryan Street, Savannah, GA 31401	Georgia Ports Authority PO Box 2406, Savannah, GA 31402 Chris Novack, Sr. Director of Engineering/Facilities Maintenance (912-964-3811)
GPA-CB1-3 Paving Improvements	$ 7,717,421	Prime	Port work	Port & Railroad	2019	2021	AECOM 22 Barnard Street, Suite 240 Savannah, GA 31401 Andrew Dowding	Georgia Ports Authority PO Box 2406 Savannah, GA 31402 Chris Novack, Sr. Director of Engineering/Facilities Maintenance, (912-964-3811)
Veteran's Parkway Improvements Savannah, GA	$ 3,043,468	Prime	Asphalt Paving	Other /Gov /Municipal	2019	2021	Chatham County Board of Commissioners, Chatham County Purchasing & Contracting, 1117 Eisenhower Dr., Suite C, Savannah, GA 31406 (Robert Marshall 912-790-1621)	Chatham County Board of Commissioners, Chatham County Purchasing & Contracting, 1117 Eisenhower Dr., Suite C, Savannah, GA 31406 (Robert Marshall 912-790-1621)
GPA-GCT Mason Chassis Yard Dev	$ 3,154,110	Prime	Port work	Port & Railroad	2019	2021	Moffatt & Nichol, 2East Bryan Street, Suite 501, Savannah, GA 31401 (912) 231-0046	Georgia Ports Authority PO Box 2406, Savannah, GA 31402 Chris Novack, Sr. Director of Engineering/Facilities Maintenance (912-964-3811)
Dean Forest Road Warehouse B Garden City, GA	$ 1,305,986	Sub	General Construction	Industrial & Commercial	2019	2021	Evans General Contractors, 2710 Old Milton Parkway, Suite 200, Alpharetta, GA 30009 Will Johnson 770-294-6265	WSI Property DF II, LLC, 6th Landmark Square 4th Floor Stamford, CT 06901
WAAF-Taxiway & Apron Fort Stewart, GA	$ 1,604,350	Sub	Asphalt Paving	Airport	2019	2021	Siler Excavating, 1217 Buffalo Road Clairfield, TN 37715	Wright Army Air Field Fort Stewart, GA
Dean Forest Road Warehouse A	$ 3,496,641	Sub	General Construction	Industrial & Commercial	2019	2021	Evans General Contractors, 2710 Old Milton Parkway, Suite 200, Alpharetta, GA 30009 Will Johnson 770-294-6265	WSI Property DF I, LLC, 6th Landmark Square 4th Floor Stamford, CT 06901
Benton Boulevard Extension	$ 10,420,388	Prime	New Street Construction	Public Works & Infrastructure	2019	2021	Chatham County Board of Commissioners, Chatham County Purchasing & Contracting, 1117 Eisenhower Dr., Suite C, Savannah, GA 31406 (Robert Marshall 912-790-1621)	Chatham County Board of Commissioners, Chatham County Purchasing & Contracting, 1117 Eisenhower Dr., Suite C, Savannah, GA 31406 (Robert Marshall 912-790-1621)
UNF Osprey Ridge Road - Eco Trail Extension	$ 4,427,556	Prime	New Street Construction	Private/ Commercial	2019	2021	Arcadis US, Inc, 1650 Prudential Drive, Suite 400, Jacksonville, FL 32216	University of North Florida Board of Trustees, 1 UNF Drive, Jacksonville, FL 32224-2648
GDOT - Call 018 Bulloch SR67 Widening	$ 37,998,446	Prime	Highway Widening & Rehab	State/DOT	2018	2021	Georgia DOT, One Georgia Center, 600 Peachtree Street, NW, Atlanta, GA 30301	Georgia DOT, One Georgia Center, 600 Peachtree Street, NW, Atlanta, GA 30301
GPA - Gate 1 Grade Separation	$ 7,558,657	Prime	Port work	Port & Railroad	2018	2021	Georgia Ports Authority PO Box 2406, Savannah, GA 31402 Chris Novack, Sr. Director of Engineering/Facilities Maintenance (912-964-3811)	Georgia Ports Authority PO Box 2406, Savannah, GA 31402 Chris Novack, Sr. Director of Engineering/Facilities Maintenance (912-964-3811)

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Project Name & Location	Contract Amount	Prime or Sub	Project Type	Owner Type	Year Started	Year Completed	Owner's Representative	Owner Name & Location
GPA-GCT Property Improvements, PH 2, Savannah, GA	$ 6,030,440	Prime	Port work	Port & Railroad	2018	2021	C2MHill Engineers, Inc. Pooler, GA	Georgia Ports Authority PO Box 2406, Savannah, GA 31402 Chris Novack, Sr. Director of Engineering/Facilities Maintenance (912-964-3811)
GPA - Gate 4 Improvements Garden City Terminal, GA	$ 1,334,702	Prime	Port work	Port & Railroad	2018	2021	Georgia Ports Authority PO Box 2406, Savannah, GA 31402 Chris Novack, Sr. Director of Engineering/Facilities Maintenance (912-964-3811)	Georgia Ports Authority PO Box 2406, Savannah, GA 31402 Chris Novack, Sr. Director of Engineering/Facilities Maintenance (912-964-3811)
GPA - Gate 8 Expansion Garden City, GA	$ 10,154,718	Prime	Port work	Port & Railroad	2018	2021	Georgia Ports Authority PO Box 2406, Savannah, GA 31402 Chris Novack, Sr. Director of Engineering/Facilities Maintenance (912-964-3811)	Georgia Ports Authority PO Box 2406, Savannah, GA 31402 Chris Novack, Sr. Director of Engineering/Facilities Maintenance (912-964-3811)
Chatham County Detention Center 1050 Carl Griffin Drive Savannah, GA 31405	$ 1,439,795	Sub	Street Widening & Rehab	Public Works & Infrastructure	2017	2021	Collins Construction, Inc PO Box 30785 Savannah, GA 31410 (912) 233-2001	Chatham County BOC, Chatham County Purchasing & Contracting 1117 Eisenhower Dr., Suite C Savannah, GA 31401

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Reeves Construction Company - Coastal Region

Active Projects >$1M

Project Number	Project Name & Location	Contract Amount	Prime or Sub	Project Type	Owner Type	Year Started	Year Completed	Owner's Representative	Owner Name & Location
10314526	Tattnall TIA & LMIG Resurfacing	$ 4,410,770	Prime	Asphalt Paving	Other Govt / Municipal	2023	Active	Tattnall County Board of Commissioners 108 Brazell Street Reidsville, GA 30453 Dennis Odom	Tattnall County Board of Commissioners 108 Brazell Street Reidsville, GA 30453 Dennis Odom
10314347	**St. Marks Landfill - Cell 4A 1000 St. Marks Pond Blvd. St. Augustine, FL 32095**	$ 2,459,303	Prime	Landfill	Private / Commercial	2023	Active	Republic Services of Florida, LP 1000 St. Marks Pond Blvd. St. Augustine, FL 32095	Republic Services of Florida, LP 18500 North Allied Way Phoenix, AZ 85054
10314214	**FDOT T2985 SR134 Improvements**	$ 7,308,506	Prime	Highway Widening & Rehab	Federal	2023	Active	Florida Department of Transportation, 605 Suwannee Street, Tallahassee, FL 32399-0450	Florida Department of Transportation, 605 Suwannee Street, Tallahassee, FL 32399-0450
10312339	GDOT Effingham Co. SR 17	$ 1,616,894	Prime	Mill & Fill / Grind & Pave	State/ DOT	2023	Active	Georgia DOT, One Georgia Center, 600 Peachtree Street, NW, Atlanta, GA 30301	Georgia DOT, One Georgia Center, 600 Peachtree Street, NW, Atlanta, GA 30301
10312337	GDOT Tattnall Co SR 292	$ 5,316,924	Prime	Mill & Fill / Grind & Pave	State/ DOT	2023	Active	Georgia DOT, One Georgia Center, 600 Peachtree Street, NW, Atlanta, GA 30301	Georgia DOT, One Georgia Center, 600 Peachtree Street, NW, Atlanta, GA 30301
10308293	Whitestone Valley Landfill	$ 2,675,011	Prime	Landfill	Private / Commercial	2023	Active	Whitestone Valley Landfill, LLC 420 West 7th Street West Point, GA 31833	Matter management Enterprises, LLC 420 West 7th Street West Point, GA 31833
10308289	Bulloch County Resurfacing	$ 2,524,950	Prime	Asphalt Paving	Other Govt / Municipal	2023	Active	Bulloch County Commissioners 115 North Main Street Statesboro, GA 30458	Bulloch County Commissioners 115 North Main Street Statesboro, GA 30458
10304983	Belfast Keller Road School Accesses	$ 13,466,950	Prime	Highway Widening & Rehab	Other Govt / Municipal	2023	Active	Bryan County Board of Commissioners 66 Captain Matthew Freeman Drive Richmond Hill, GA 31324	Bryan County Board of Commissioners 66 Captain Matthew Freeman Drive Richmond Hill, GA 31324
10303712	Lincoln Bloomingdale - Tract aka Southern Warehousing System Property, Bloomingdale Road, Bloomingdale, GA	$ 6,837,268	Sub	Site Work	Private / Commercial	2023	Active	Evans General Contractors, LLC 3050 Northwinds Pkwy Suite 200 Alpharetta, GA 30009 Attn: Ben Wooditch or Thomas Lamb	Lincoln Property Company 3405 Piedmont Road, NE Atlanta, GA 30305 Attn: David Gray Phone: 678-794-8182
10303534	**Newbrook North, Phase 1 (Pipe & Roadway)**	$ 3,263,770	Prime	Site Work	Private / Commercial	2023	Active	Toll Brothers, Inc, 1140 Virginia Drive, Fort Washington, PA 19034	Arroyo Capital III, LLC 18575 Jamboree Road, Suite 350 Irvine, CA 92612 Attn: Nick Lasher Email: nlasher@arroyocapital.com Phone: (949) 272-1163 Fax: (213) 830-6392
10303289	Pooler FY 2023 Paving Projects	$ 1,694,234	Prime	Asphalt Paving	Other Govt / Municipal	2023	Active	City of Pooler 1095 S. Rogers Street Pooler, GA 31322	City of Pooler 1095 S. Rogers Street Pooler, GA 31322
10301984	Givens Warehouse 49 Artley Road Savannah, Ga 31408	$ 2,834,515	Sub	Site Work	Private / Commercial	2023	Active	Mahany Construction Co., Inc. P.O. Box 18271 Savannah, Ga 31418	Givens Packaging & Crate LC 1720 S. Military Hwy Chesapeake, VA 23320
10296492	Gulfstream Building Y3 Expansion 100 Airways Avenue Savannah, GA 31404	$ 1,232,118	Sub	Site Work	Private / Commercial	2023	Active	Samet Corporation 2E Bryan Street, Suite 1200B Savannah, GA 31401	Gulfstream Aerospace Corporation 100 Airways Avenue Savannah, GA 31404
10294928	GDOT M006216 Chatham SR204 Resurface	$ 7,053,366	Prime	Asphalt Paving	State/ DOT	2023	Active	Georgia DOT, One Georgia Center, 600 Peachtree Street, NW, Atlanta, GA 30301	Georgia DOT, One Georgia Center, 600 Peachtree Street, NW, Atlanta, GA 30301
10294783	Silverleaf (Rivers Reach) Sitework - Earthwork, Pipe and Roadway	$ 6,159,956	Prime	Site Work	Private/ Commercial	2023	Active	Toll Brothers, Inc, 1140 Virginia Drive, Fort Washington, PA 19034	Toll Brothers, Inc, 1140 Virginia Drive, Fort Washington, PA 19034

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Reeves Construction Company - Coastal Region

Active Projects >$1M

Project Number	Project Name & Location	Contract Amount	Prime or Sub	Project Type	Owner Type	Year Started	Year Completed	Owner's Representative	Owner Name & Location
10294675	Georgia Ports Authority Garden City Terminal, West Phase 2 Garden City, GA 31408 Asphalt Paving	$ 16,486,884	Sub	Asphalt Paving	Private / Commercial	2023	Active	Ragnar Benson Construction 833 Featherstone Road Rockford, IL 61107	Georgia Ports Authority PO Box 2406 Savannah, GA 31401
10294631	GPA FY23 Paving Improvements	$ 8,445,982	Prime	Port Work	State/ DOT	2023	Active	Geogria Ports Authority, PO Box 2406, Savannah, GA 31402	Geogria Ports Authority, PO Box 2406, Savannah, GA 31402
10292336	FDOT T2881 SR228 Normandy BLvd	$ 1,959,156	Prime	Highway Widening & Rehab	State/ DOT	2023	Active	Florida Dept. of Transportation, District 2, Lake City	Florida Dept. of Transportation Tallahassee, FL
10284719	GPA - O&M Building & Rappe Way	$ 18,611,123	Prime	Port work	Private w/Federal Funding	2022	Active	Georgia Ports Authority PO Box 2406, Savannah, GA 31402 Chris Novack, Sr. Director of Engineering/Facilities Maintenance (912-964-3811)	Georgia Ports Authority PO Box 2406, Savannah, GA 31402 Chris Novack, Sr. Director of Engineering/Facilities Maintenance (912-964-3811)
10284660	Port Wentworth Apartments 7450 Highway 21 Port Wentworth, GA 31407	$ 1,278,654	Sub	Asphalt Paving	Private / Commercial	2022	Active	Classic Plains Construction, a Georgia LLC 905 Bombay Lane Roswell, GA 30076	Port Wentworth Apartment Residences, LLC 1545 Peachtree Street NW, Suite 260 Atlanta, GA 30309
10283941	Effingham Parkway SR 30 Blue Jay Road, GDOT Contract ID B3CBA2101501-0, PI#0006700, Chatham & Effingham Counties	$ 3,454,069	Sub	Asphalt Paving	State Including DOT	2022	Active	Balfour Beatty Infrastructure, Inc 3314 Jaeckle Drive Wilmington, NC 28403	Georgia DOT One Georgia Center 600 Peachtree Street, NW Atlanta, GA 30301
10282774	K-8 School NN	$ 7,201,293	Sub	Site Work	Other /Gov /Municipal	2022	Active	STG Contracting Group, Inc, 109 Nature Walk Parkway, Suite 103, St. Augustine, FL 32092	St. Johns County School District, 40 Orange Street, St. Augustine, FL 32084
10275462	Logistics 16 - Ottawa Farms, Chatham County, GA	$ 23,046,741	Sub	Site Work	Private / Commercial	2022	Active	Ordner Construction Company, Inc. 1600 Executeve Drive, South, Suite 100, Duluth GA 30096 (678) 380-7400	Logistics Sixteen
10275424	Brampton Road Connector, GDOT Contract ID B3CBA2101559-2, Chatham Co.	$ 12,990,049	Sub	Asphalt Paving	State Including DOT	2022	Active	Scott Bridge Company, Inc. PO Box 2000, 2641 Interstate Drive, Opelika, AL	Georgia DOT, One Georgia Center, 600 Peachtree Street, NW, Atlanta, GA 30301
10275047	GPA GCT Gate 9 & GST Access Road	$ 13,042,120	Prime	Port Work	State Including DOT	2022	Active	AECOM 22 Barnard Street, Suite 240 Savannah, GA 31401 Andrew Dowding	Georgia Ports Authority PO Box 2406 Savannah, GA 31402 Chris Novack, Sr. Director of Engineering/Facilities Maintenance, (912-964-3811)
10274983	**Inlight Industrial, Bldgs. 1 & 2 Imeson Road & Commonwealth Avenue Jacksonville, FL 32220**	$ 9,905,709	Sub	Site Work	Private / Commercial	2022	Active	Dana B. Kenyon Company 5772 Timuquana Road Jacksonville, FL 32210	Inlight Real Estate Acquisitions, LLC 818 A1A North, Suite 101 Ponte Vedra Beach, FL 32082
10270837	GPA GCT Capacity Increase CB 7, 8, 9 Densification	$ 3,092,311	Prime	Port Work	Private/ Commercial	2022	Active	Moffatt & Nichol, 2 East Bryan Street, Suite 501, Savannah, GA 31401 (912) 231-0046	Georgia Ports Authority PO Box 2406, Savannah, GA 31402 Chris Novack, Sr. Director of Engineering/Facilities Maintenance (912-964-3811)
10239191	SCDOT Call 10 US 17 Widening	$ 41,889,382	Prime	Highway Widening & Rehab	State/DOT	2020	Active	South Carolina DOT	South Carolina DOT
10237977	GDOT SR 307 @ I-16 DDI	$ 33,659,600	Prime	DDI	State/DOT	2020	Active	Georgia DOT, One Georgia Center, 600 Peachtree Street, NW, Atlanta, GA 30301	Georgia DOT, One Georgia Center, 600 Peachtree Street, NW, Atlanta, GA 30301

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Reeves Construction Company - Coastal Region

Active Projects >$1M

Project Number	Project Name & Location	Contract Amount	Prime or Sub	Project Type	Owner Type	Year Started	Year Completed	Owner's Representative	Owner Name & Location
10211273	Islands Expressway (CD787) Over Wilmington River	$ 1,142,204	Sub	Asphalt Paving	Industrial & Commercial	2018	Active	Georgia DOT, One Georgia Center, 600 Peachtree Street, NW, Atlanta, GA 30301	Georgia DOT, One Georgia Center, 600 Peachtree Street, NW, Atlanta, GA 30301

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SCOTT G. NEWMAN

SUMMARY OF EXPERIENCE:

20+ years' experience in project estimating and management

EDUCATION:

Georgia Southern University, Statesboro, GA
Bachelor of Science Building Construction and Contracting
2000 Graduate

30-Hour OSHA Training Course in Construction Safety and Health

WORK EXPERIENCE:

Employment:

R.B. Baker Construction, a division of Reeves Construction Company
f.k.a. Baker Infrastructure Group, Inc., Garden City, GA
June 2016 to Present
Regional Manager

February 2014 to June 2016
Construction Operations Manager

July 2010 to February 2014
Chief Estimator

R. B. Baker Construction, Inc., Garden City, GA
January 2007 to July 2010
Vice President/Chief Estimator

2006 to 2007
Chief Estimator/Project Manager

2002 to 2006
Project Manager

2002 to 2003
Project Engineer

2000 to 2002
Estimator

Ellis Wood Contracting, Inc., Statesboro, GA
1999 to 2000
Estimator

PROJECTS PERSONALLY MANAGED:

2002-2003

GDOT Truman Parkway Phase III and Phase IV, Savannah, GA — $ 27,095,783
Project Engineer

GDOT SR25/US17 Overpass, Port Wentworth, Ga — $ 2,758,778
Project Manager

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2003-2005

GPA Container Berth 3 Pavement Upgrade, Garden City, Ga $ 8,209,526
Project Manager

GPA Container Berth 1, Ph. 2 Pavement Upgrade, Garden City, Ga $ 7,246,147
Project Manager

Savannah Regional Landfill Cell 5, Port Wentworth, Ga $ 1,911,969
Project Manager

Hickory Hill Landfill Cell 4C, Bluffton, SC $ 1,129,259
Project Manager

GPA Container Berth 8 Bulkhead Fill, Garden City, Ga $ 3,735,000
Project Manager

2005-2007

Wolf Creek Landfill Cell 2A-4A, Dry Branch, Ga $ 1,952,921
Project Manager

Upper Piedmont Landfill Cell 3B, Roxboro, NC $ 672,145
Project Manager

East Carolina Landfill Cell 11B, Republican, NC $ 1,442,830
Project Manager

Eagle Point Landfill Cells 7 & 8, Cumming, Ga $ 6,456,971
Project Manager

Wolf Creek Landfill Cell 5, Dry Branch, Ga $ 1,733,884
Project Manager

Wolf Creek Landfill Cell 6, Dry Branch, Ga $ 3,556,849
Project Manager

Savannah Regional Landfill Cell 6, Port Wentworth, Ga $ 1,580,235
Project Manager

GPA Container Berth Eight Phase 1A Paving, Garden City, Ga $ 5,186,011
Project Manager

GPA Container Berth Eight Phase 2 Paving, Garden City, Ga $ 6,129,998
Project Manager

GPA Container Berth Two, Phase 2 Paving, Garden City, Ga $ 5,998,000
Project Manager

Superior Landfill Cell 8N, Savannah, Georgia $ 1,227,553
Project Manager

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PAUL BOOTH

SUMMARY OF EXPERIENCE:

27+ years of experience in the construction industry.

EDUCATION:

Georgia Southern University, Statesboro, GA
BS. Civil Engineering Technology

WORK EXPERIENCE:

Employment:

R.B. Baker Construction, Inc., Garden City, GA
1999 to Present
Project Engineer- 1999 to 2000
Project Manager- 2000 to 2005
Asphalt General Superintendent- 2005 to 2010
Senior Project Manager- 2010 to 2016
Construction Manager- 2016 to Present

Georgia Department of Transportation
1996-1999
Project Manager

Self Employed
1992-1994
Owner - Construction Company - Residential

Projects:

I-95 Widening, Design Build
Bryan County, GA
Georgia Department of Transportation
Project Engineer

Pooler Parkway, Phase II
Chatham County, GA
Georgia Department of Transportation
Project Manager

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I-95 Widening
Chatham County, GA
Georgia Department of Transportation
Project Manager

SR 21 Widening
Jenkins County, GA
Georgia Department of Transportation
Project Manager

SR 21 Widening (South)
Screven County, GA
Georgia Department of Transportation
Project Manager

SR 21 Widening (North)
Screven County, GA
Georgia Department of Transportation
Project Manager

Old Augusta Rd.
Effingham County, GA
Effingham County Board of Directors
Senior Project Manager

Tanger Outlet Mall
Pooler, GA
Ben Carter/Tanger
Senior Project Manager

I-95 Diverging Diamond Interchange- Design Build
Chatham County, GA
Georgia Department of Transportation
Senior Project Manager

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ROBERT 'MICHAEL' BELL

EDUCATION-CERTIFICATION:

University of North Florida, August 2004 – Business Administration
SWPPP Inspection Certificate
Dale Carnegie Training
OSHA 10

EXPERIENCE:

R.B. Baker Construction, a division of Reeves Construction Co. – St. Augustine, FL
2016 to Present
Project Manger
Managing crews and site production, scheduling, budgets, tracking

R&B Contracting, Inc. – Jacksonville, FL
2010 to 2016
Project Manager/Estimator
Takeoffs for bids, Agtek Earthwork 3D, Prepared Estimates, Bid Proposals, Change Orders
Project Startup, shop drawings and submittals, managing production and budgets.

AWA Contracting, Inc. – Jacksonville, FL
2008 to 2010
Project Manager
Project Startup, shop drawings, submittals, managing production and budgets

Barco Duval Engineering – Jacksonville, FL
2004 to 2008
Assistant Project Manager/Project Manager
Takeoff for bids, project startup, shop drawing and submittals, managing production and budgets.

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JAMES DAVIS

SUMMARY OF EXPERIENCE:

Over 23 years of experience in road building, site preparation, and underground utilities construction experience as a Grade Foreman and Superintendent.

WORK EXPERIENCE:

R.B. Baker Construction, a Division of Reeves Construction Company
St. Augustine, FL
1998 to Present
Project Superintendent

PROJECTS:

North Thomas/Front Beach Rd. ($20m)
Panama City, FL
Project Superintendent

Highway21 Road Improvements
Sylvania, GA
Project Superintendent

UNF Osprey Rd. / Eco Rd.
Jacksonville, FL
Project Superintendent

FDOT SR 79 Improvements
Washington County, FL
Project Superintendent

CERTIFICATIONS:

FDOT Advanced M.O.T. Certification

FL SWPPP Certification

OSHA Confined Space Training

OSHA Competent Person Certification

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E-VERIFY AFFIDAVIT

NASSAU COUNTY E-VERIFY FORM UNDER SECTION 448.095, FLORIDA STATUTES

Project Name: Chester Road Intersection Improvements
Bid No./Contract No.: Bid Number NC23-064

DEFINITIONS:
"Contractor" means a person or entity that has entered or is attempting to enter into a contract with a public employer to provide labor, supplies, or services to such employer in exchange for salary, wages, or other remuneration. "Contractor" includes, but is not limited to, a vendor or consultant.

"Subcontractor" means a person or entity that provides labor, supplies, or services to or for a contractor or another subcontractor in exchange for salary, wages, or other remuneration.

"E-Verify System" means an internet-based system operated by the United States Department of Homeland Security that allows participating employers to electronically verify the employment eligibility of newly hired employees.

Effective January 1, 2021, Contractors, shall register with and use the E-Verify System in order to verify the work authorization status of all newly hired employees. Contractor shall register for and utilize the U.S. Department of Homeland Security's E-Verify System to verify the employment eligibility of:

a. All persons employed by a Contractor to perform employment duties within Florida during the term of the contract; and

b. All persons (including subvendors/subconsultants/subcontractors) assigned by Contractor to perform work pursuant to the contract with Nassau County. The Contractor acknowledges and agrees that registration and use of the U.S. Department of Homeland Security's E-Verify System during the term of the contract is a condition of the contract with Nassau County; and

c. Should vendor become the successful Contractor awarded for the above-named project, by entering into the contract, the Contractor shall comply with the provisions of Section 448.095, Florida Statutes, "Employment Eligibility", as amended from time to time. This includes, but is not limited to, registration and utilization of the E-Verify System to verify the work authorization status of all newly hired employees. The Contractor shall also execute the attached affidavit (Attachment "A") attesting that the Contractor does not employ, contract with, or such affidavit for the duration of the contract; and

d. Contractor shall also require all subcontractors to execute the attached affidavit (Attachment "B") attesting that the subcontractor does not employ, contract with, or subcontract with, an unauthorized alien. The Contractor shall maintain a copy of such affidavit for the duration of the contract.

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CONTRACT TERMINATION:

a. If Nassau County has a good faith belief that a Contractor has knowingly violated §448.09(1) or §448.095(2), Florida Statutes, the contract shall be terminated.

b. If Nassau County has a good faith belief that a subcontractor has knowingly violated §448.09(1) or §448.095(2), Florida Statutes, but the Contractor otherwise complied with Chapter 448, Florida Statutes, Nassau County shall promptly notify the Contractor and order the Contractor to immediately terminate the contract with the subcontractor.

c. A contract terminated under subparagraph a) or b) is not a breach of contract and may not be considered as such.

d. Any challenge to termination under this provision must be filed in the Circuit Court no later than twenty (20) calendar days after the date of termination.

e. If the contract is terminated for a violation of the Statute by the Contractor, the Contractor may not be awarded a public contract for a period of one (1) year after the date of termination.

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FORM E - 1
CONTRACTOR E-VERIFY AFFIDAVIT

I hereby certify that Reeves Construction Company (Contractor Company Name) does not employ, contract with, or subcontract with an unauthorized alien, and is otherwise in full compliance with Section 448.095, Florida Statutes.

All employees hired on or after January 1, 2021 have had their work authorization status verified through the E-Verify system.

A true and correct copy of Reeves Construction Company's (Contractor Company Name) proof of registration in the E-Verify system is attached to this Affidavit.

Print Name: Scott Newman
Date: 01/25/2024

REEVES CONSTRUCTION COMPANY CORPORATE 1955 SEAL GEORGIA

STATE OF ~~FLORIDA~~ Georgia
COUNTY OF Chatham

The foregoing instrument was acknowledged before me by means of ☒physical presence or ☐online notarization, this _____ (Date) by Scott Newman (Name of Officer or Agent, Title of Officer or Agent) of Reeves Construction Company (Name of Contractor Company Acknowledging), a Georgia (State or Place of Incorporation) Corporation, on behalf of the Corporation. He/She is ☒personally known to me or ☐has produced _____ as identification.

Notary Public
April E. Conner
Printed Name

APRIL E. CONNER NOTARY PUBLIC MCINTOSH COUNTY EXPIRES GEORGIA 01/20/2026

My Commission Expires: 1/20/2026

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Company ID Number:667047 Client Company ID Number:1269048

THE E-VERIFY

MEMORANDUM OF UNDERSTANDING

FOR EMPLOYERS USING A WEB SERVICES E-VERIFY EMPLOYER AGENT

ARTICLE I

PURPOSE AND AUTHORITY

The parties to this agreement are the Department of Homeland Security (DHS), the Reeves Corporate (Employer), and the Web Services E-Verify Employer Agent. The purpose of this agreement is to set forth terms and conditions which the Employer and the Web Services E-Verify Employer Agent will follow while participating in E-Verify.

E-Verify is a program that electronically confirms an employee's eligibility to work in the United States after completion of Form I-9, Employment Eligibility Verification (Form I-9). This Memorandum of Understanding (MOU) explains certain features of the E-Verify program and describes specific responsibilities of the Employer, the E-Verify Employer Agent, the Social Security Administration (SSA), and DHS.

References in this MOU to the Employer include the Web Services E-Verify Employer Agent when acting on behalf of the Employer.

For purposes of this MOU, the E-Verify browser refers to the website that provides direct access to the E-Verify system: https://e-verify.uscis.gov/emp. You may access E-Verify directly free of charge via the E-Verify browser.

Authority for the E-Verify program is found in Title IV, Subtitle A, of the Illegal Immigration Reform and Immigrant Responsibility Act of 1996 (IIRIRA), Pub. L. 104-208, 110 Stat. 3009, as amended (8 U.S.C. § 1324a note). The Federal Acquisition Regulation (FAR) Subpart 22.18, "Employment Eligibility Verification" and Executive Order 12989, as amended, provide authority for Federal contractors and subcontractors (Federal contractor) to use E-Verify to verify the employment eligibility of certain employees working on Federal contracts.

ARTICLE II

RESPONSIBILITIES

A. RESPONSIBILITIES OF THE EMPLOYER

1. For purposes of this MOU, references to the Employer include the Web Services E-Verify Employer Agent when acting on behalf of the Employer.
2. By enrolling in E-Verify and signing the applicable MOU, the Employer asserts that it is a legitimate company which intends to use E-Verify for legitimate purposes only and in accordance with the laws, regulations and DHS policies and procedures relating to the use of E-Verify.
3. The Employer agrees to display the following notices supplied by DHS (though the Web Services E-Verify Employer Agent) in a prominent place that is clearly visible to prospective employees and all employees who are to be verified through the system:
    A. Notice of E-Verify Participation
    B. Notice of Right to Work
4. The Employer agrees to provide to the SSA and DHS the names, titles, addresses, and telephone numbers of the Employer representatives to be contacted about E-Verify. The Employer also agrees to keep such information current by providing updated information to SSA and DHS whenever the representatives' contact information changes.
5. The Employer agrees to become familiar with and comply with the most recent version of theE-Verify User Manual. The Employer will obtain the E-Verify User Manual from the Web ServicesE-Verify Employer Agent, and will be notified by the Web Services E-Verify Employer Agent when a new version of the E-Verify User Manual becomes available.
6. The Employer agrees to comply with current Form I-9 procedures, with two exceptions:
    A. If an employee presents a "List B" identity document, the Employer agrees to only accept "List B" documents that contain a photo. (List B documents identified in 8 C.F.R. 274a.2(b)(1)(B)) can be presented during the Form I-9 process to establish identity.) If an employee objects to the photo

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Company ID Number:667047 Client Company ID Number:1269048

If you have any questions, contact E-Verify at 1-888-464-4218.

Approved by:

Employer Reeves Corporate	
Name (Please Type or Print) Randy England	Title HR Director
Signature Randy England	Date 3/21/18
E-Verify Employer Agent SuccessFactors, Inc.	
Name (Please Type or Print) Alejandra Alonso	Title
Signature Electronically Signed	Date March 12, 2018
Department of Homeland Security – Verification Division	
Name	Title
Signature	Date

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Company ID Number:667047 Client Company ID Number:1269048

Information Required for the E-Verify Program **Information relating to your Company:**	
Company Name	Reeves Corporate
Company Facility Address	101 Sheraton Ct Macon, GA 31210
Company Alternate Address	101 Sheraton Ct Macon, GA 31210
County or Parish	Bibb
Employer Identification Number	58-0641369
North American Industry Classification Systems Code	Heavy And Civil Engineering Construction (237)
Parent Company	
Number of Employees	500 to 999
Number of Sites Verified for	9

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Company ID Number:667047 Client Company ID Number:1269048

Are you verifying for more than 1 site? If yes, please provide the number of sites verified for in each State:

Georgia	4
Florida	1
South Carolina	4

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Company ID Number:667047 Client Company ID Number:1269048

Information relating to the Program Administrator(s) for your Company on policy questions or operational problems:

Name	Ellen Meister
Phone Number	(973) 656-4831
Fax Number	
Email Address	emeister@colasinc.com

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E-VERIFY AFFIDAVIT

NASSAU COUNTY E-VERIFY FORM UNDER SECTION 448.095, FLORIDA STATUTES

Project Name: Chester Road Intersection Improvements
Bid No./Contract No.: NC23-0064

DEFINITIONS:
"Contractor" means a person or entity that has entered or is attempting to enter into a contract with a public employer to provide labor, supplies, or services to such employer in exchange for salary, wages, or other remuneration. "Contractor" includes, but is not limited to, a vendor or consultant.

"Subcontractor" means a person or entity that provides labor, supplies, or services to or for a contractor or another subcontractor in exchange for salary, wages, or other remuneration.

"E-Verify System" means an internet-based system operated by the United States Department of Homeland Security that allows participating employers to electronically verify the employment eligibility of newly hired employees.

Effective January 1, 2021, Contractors, shall register with and use the E-Verify System in order to verify the work authorization status of all newly hired employees. Contractor shall register for and utilize the U.S. Department of Homeland Security's E-Verify System to verify the employment eligibility of:

a. All persons employed by a Contractor to perform employment duties within Florida during the term of the contract; and

b. All persons (including subvendors/subconsultants/subcontractors) assigned by Contractor to perform work pursuant to the contract with Nassau County. The Contractor acknowledges and agrees that registration and use of the U.S. Department of Homeland Security's E-Verify System during the term of the contract is a condition of the contract with Nassau County; and

c. Should vendor become the successful Contractor awarded for the above-named project, by entering into the contract, the Contractor shall comply with the provisions of Section 448.095, Florida Statutes, "Employment Eligibility", as amended from time to time. This includes, but is not limited to, registration and utilization of the E-Verify System to verify the work authorization status of all newly hired employees. The Contractor shall also execute the attached affidavit (Attachment "A") attesting that the Contractor does not employ, contract with, or such affidavit for the duration of the contract; and

d. Contractor shall also require all subcontractors to execute the attached affidavit (Attachment "B") attesting that the subcontractor does not employ, contract with, or subcontract with, an unauthorized alien. The Contractor shall maintain a copy of such affidavit for the duration of the contract.

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CONTRACT TERMINATION:

a. If Nassau County has a good faith belief that a Contractor has knowingly violated §448.09(1) or §448.095(2), Florida Statutes, the contract shall be terminated.

b. If Nassau County has a good faith belief that a subcontractor has knowingly violated §448.09(1) or §448.095(2), Florida Statutes, but the Contractor otherwise complied with Chapter 448, Florida Statutes, Nassau County shall promptly notify the Contractor and order the Contractor to immediately terminate the contract with the subcontractor.

c. A contract terminated under subparagraph a) or b) is not a breach of contract and may not be considered as such.

d. Any challenge to termination under this provision must be filed in the Circuit Court no later than twenty (20) calendar days after the date of termination.

e. If the contract is terminated for a violation of the Statute by the Contractor, the Contractor may not be awarded a public contract for a period of one (1) year after the date of termination.

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FORM E - 2
SUBCONTRACTOR E-VERIFY AFFIDAVIT

I hereby certify that Curb Systems of NEFL (Subcontractor Company Name) does not employ, contract with, or subcontract with an unauthorized alien, and is otherwise in full compliance with Section 448.095, Florida Statutes.

All employees hired on or after January 1, 2021 have had their work authorization status verified through the E-Verify system.

A true and correct copy of Curb Systems of NEFL (Subcontractor Company Name) proof of registration in the E-Verify system is attached to this Affidavit.

Print Name: Gary C. Alligood
Date: 01/24/24

STATE OF FLORIDA
COUNTY OF Florida

The foregoing instrument was acknowledged before me by means of ☒physical presence or ☐online notarization, this 01/24/24 (Date) by Gary C Alligood (Name of Officer or Agent, Title of Officer or Agent) of CEO (Name of Contractor Company Acknowledging), a Florida (State or Place of Incorporation) Corporation, on behalf of the Corporation. He/She is ☒personally known to me or ☐has produced _____ as identification.

Notary Public
Frances C. Hagan
Printed Name

My Commission Expires: 05/31/25

FRANCES LORRAINE HAGAN
Notary Public - State of Florida
Commission # HH 134266
My Comm. Expires May 31, 2025
Bonded through National Notary Assn.

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E-VERIFY AFFIDAVIT

NASSAU COUNTY E-VERIFY FORM UNDER SECTION 448.095, FLORIDA STATUTES

Project Name: Chester Road Intersection Improvements
Bid No./Contract No.: NC23-064-ITB

DEFINITIONS:
"Contractor" means a person or entity that has entered or is attempting to enter into a contract with a public employer to provide labor, supplies, or services to such employer in exchange for salary, wages, or other remuneration. "Contractor" includes, but is not limited to, a vendor or consultant.

"Subcontractor" means a person or entity that provides labor, supplies, or services to or for a contractor or another subcontractor in exchange for salary, wages, or other remuneration.

"E-Verify System" means an internet-based system operated by the United States Department of Homeland Security that allows participating employers to electronically verify the employment eligibility of newly hired employees.

Effective January 1, 2021, Contractors, shall register with and use the E-Verify System in order to verify the work authorization status of all newly hired employees. Contractor shall register for and utilize the U.S. Department of Homeland Security's E-Verify System to verify the employment eligibility of:

a. All persons employed by a Contractor to perform employment duties within Florida during the term of the contract; and

b. All persons (including subvendors/subconsultants/subcontractors) assigned by Contractor to perform work pursuant to the contract with Nassau County. The Contractor acknowledges and agrees that registration and use of the U.S. Department of Homeland Security's E-Verify System during the term of the contract is a condition of the contract with Nassau County; and

c. Should vendor become the successful Contractor awarded for the above-named project, by entering into the contract, the Contractor shall comply with the provisions of Section 448.095, Florida Statutes, "Employment Eligibility", as amended from time to time. This includes, but is not limited to, registration and utilization of the E-Verify System to verify the work authorization status of all newly hired employees. The Contractor shall also execute the attached affidavit (Attachment "A") attesting that the Contractor does not employ, contract with, or such affidavit for the duration of the contract; and

d. Contractor shall also require all subcontractors to execute the attached affidavit (Attachment "B") attesting that the subcontractor does not employ, contract with, or subcontract with, an unauthorized alien. The Contractor shall maintain a copy of such affidavit for the duration of the contract.

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CONTRACT TERMINATION:

a. If Nassau County has a good faith belief that a Contractor has knowingly violated §448.09(1) or §448.095(2), Florida Statutes, the contract shall be terminated.

b. If Nassau County has a good faith belief that a subcontractor has knowingly violated §448.09(1) or §448.095(2), Florida Statutes, but the Contractor otherwise complied with Chapter 448, Florida Statutes, Nassau County shall promptly notify the Contractor and order the Contractor to immediately terminate the contract with the subcontractor.

c. A contract terminated under subparagraph a) or b) is not a breach of contract and may not be considered as such.

d. Any challenge to termination under this provision must be filed in the Circuit Court no later than twenty (20) calendar days after the date of termination.

e. If the contract is terminated for a violation of the Statute by the Contractor, the Contractor may not be awarded a public contract for a period of one (1) year after the date of termination.

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FORM E - 2
SUBCONTRACTOR E-VERIFY AFFIDAVIT

I hereby certify that James D Hinson Electrical Contracting Co., Inc. (Subcontractor Company Name) does not employ, contract with, or subcontract with an unauthorized alien, and is otherwise in full compliance with Section 448.095, Florida Statutes.

All employees hired on or after January 1, 2021 have had their work authorization status verified through the E-Verify system.

A true and correct copy of James D Hinson Electrical Contracting Co., Inc. (Subcontractor Company Name) proof of registration in the E-Verify system is attached to this Affidavit.

Jamey Jo McCoy

Print Name: Jamey Jo McCoy

Date: 1-16-2024

STATE OF FLORIDA
COUNTY OF Duval

The foregoing instrument was acknowledged before me by means of X physical presence or □online notarization, this 1-16-2024 (Date) by Jamey Jo McCoy, VP (Name of Officer or Agent, Title of Officer or Agent) of James D. Hinson Electrical Contracting Co (Name of Contractor Company Acknowledging), a Corporation (State or Place of Incorporation) Corporation, on behalf of the Corporation. He/She is X personally known to me or □has produced personally known as identification.

Amber Clark

Notary Public

Amber Clark

Printed Name

AMBER CLARK
NOTARY PUBLIC
STATE OF FLORIDA
NO. HH 338790
MY COMMISSION EXPIRES DEC. 06, 2026

My Commission Expires: Dec. 06, 2026

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E-Verify

Company ID Number: 386877

THE E-VERIFY PROGRAM FOR EMPLOYMENT VERIFICATION MEMORANDUM OF UNDERSTANDING

ARTICLE I

PURPOSE AND AUTHORITY

This Memorandum of Understanding (MOU) sets forth the points of agreement between the Department of Homeland Security (DHS) and **James D. Hinson Electrical Contracting Company, Inc.** (Employer) regarding the Employer's participation in the Employment Eligibility Verification Program (E-Verify). This MOU explains certain features of the E-Verify program and enumerates specific responsibilities of DHS, the Social Security Administration (SSA), and the Employer. E-Verify is a program that electronically confirms an employee's eligibility to work in the United States after completion of the Employment Eligibility Verification Form (Form I-9). For covered government contractors, E-Verify is used to verify the employment eligibility of all newly hired employees and all existing employees assigned to Federal contracts or to verify the entire workforce if the contractor so chooses.

Authority for the E-Verify program is found in Title IV, Subtitle A, of the Illegal Immigration Reform and Immigrant Responsibility Act of 1996 (IIRIRA), Pub. L. 104-208, 110 Stat. 3009, as amended (8 U.S.C. § 1324a note). Authority for use of the E-Verify program by Federal contractors and subcontractors covered by the terms of Subpart 22.18, "Employment Eligibility Verification", of the Federal Acquisition Regulation (FAR) (hereinafter referred to in this MOU as a "Federal contractor with the FAR E-Verify clause") to verify the employment eligibility of certain employees working on Federal contracts is also found in Subpart 22.18 and in Executive Order 12989, as amended.

ARTICLE II

FUNCTIONS TO BE PERFORMED

A. RESPONSIBILITIES OF SSA

1. SSA agrees to provide the Employer with available information that allows the Employer to confirm the accuracy of Social Security Numbers provided by all employees verified under this MOU and the employment authorization of U.S. citizens.

2. SSA agrees to provide to the Employer appropriate assistance with operational problems that may arise during the Employer's participation in the E-Verify program. SSA agrees to provide the Employer with names, titles, addresses, and telephone numbers of SSA representatives to be contacted during the E-Verify process.

3. SSA agrees to safeguard the information provided by the Employer through the E-Verify program procedures, and to limit access to such information, as is appropriate by law, to individuals responsible for the verification of Social Security Numbers and for evaluation of the E-Verify program or such other persons or entities who may be authorized by SSA as governed

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E-VERIFY AFFIDAVIT

NASSAU COUNTY E-VERIFY FORM UNDER SECTION 448.095, FLORIDA STATUTES

Project Name: St. Marks CID Debris Disposal - Cell 4A
Bid No./Contract No.: 10314347

DEFINITIONS:
"Contractor" means a person or entity that has entered or is attempting to enter into a contract with a public employer to provide labor, supplies, or services to such employer in exchange for salary, wages, or other remuneration. "Contractor" includes, but is not limited to, a vendor or consultant.

"Subcontractor" means a person or entity that provides labor, supplies, or services to or for a contractor or another subcontractor in exchange for salary, wages, or other remuneration.

"E-Verify System" means an internet-based system operated by the United States Department of Homeland Security that allows participating employers to electronically verify the employment eligibility of newly hired employees.

Effective January 1, 2021, Contractors, shall register with and use the E-Verify System in order to verify the work authorization status of all newly hired employees. Contractor shall register for and utilize the U.S. Department of Homeland Security's E-Verify System to verify the employment eligibility of:

a. All persons employed by a Contractor to perform employment duties within Florida during the term of the contract; and

b. All persons (including subvendors/subconsultants/subcontractors) assigned by Contractor to perform work pursuant to the contract with Nassau County. The Contractor acknowledges and agrees that registration and use of the U.S. Department of Homeland Security's E-Verify System during the term of the contract is a condition of the contract with Nassau County; and

c. Should vendor become the successful Contractor awarded for the above-named project, by entering into the contract, the Contractor shall comply with the provisions of Section 448.095, Florida Statutes, "Employment Eligibility", as amended from time to time. This includes, but is not limited to, registration and utilization of the E-Verify System to verify the work authorization status of all newly hired employees. The Contractor shall also execute the attached affidavit (Attachment "A") attesting that the Contractor does not employ, contract with, or such affidavit for the duration of the contract; and

d. Contractor shall also require all subcontractors to execute the attached affidavit (Attachment "B") attesting that the subcontractor does not employ, contract with, or subcontract with, an unauthorized alien. The Contractor shall maintain a copy of such affidavit for the duration of the contract.

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CONTRACT TERMINATION:

a. If Nassau County has a good faith belief that a Contractor has knowingly violated §448.09(1) or §448.095(2), Florida Statutes, the contract shall be terminated.

b. If Nassau County has a good faith belief that a subcontractor has knowingly violated §448.09(1) or §448.095(2), Florida Statutes, but the Contractor otherwise complied with Chapter 448, Florida Statutes, Nassau County shall promptly notify the Contractor and order the Contractor to immediately terminate the contract with the subcontractor.

c. A contract terminated under subparagraph a) or b) is not a breach of contract and may not be considered as such.

d. Any challenge to termination under this provision must be filed in the Circuit Court no later than twenty (20) calendar days after the date of termination.

e. If the contract is terminated for a violation of the Statute by the Contractor, the Contractor may not be awarded a public contract for a period of one (1) year after the date of termination.

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SUBCONTRACTOR E-VERIFY AFFIDAVIT

I hereby certify that CCI-KCE, LLC [insert subcontractor company name] does not employ, contract with, or subcontract with an unauthorized alien, and is otherwise in full compliance with, section 448.095, Florida Statutes.
All employees hired on or after January 1, 2021, have had their work authorization status verified through the E-Verify system.

A true and correct copy of CCI-KCE, LLC. [insert subcontractor company name] proof of registration in the E-Verify system is attached to this Affidavit.

Sign Name: _____

Print Name: RICHARD DIGGS

Date: 1/18/24

STATE OF FLORIDA
COUNTY OF Baker

The foregoing instrument was acknowledged before me by means of (check one):
☑ physical presence or ☐ online notarization, this day January 18, 2024 (date)
by Richard Diggs (name of officer or agent, title of officer or agent)
of CCI-KCE, LLC (name of contractor company acknowledging),
a Florida (state or place of incorporation) corporation, on behalf of the corporation. He/she is personally known to me or has produced _____
(type of identification) as identification.

Notary Public: Mandy McCormick

Printed Name: Mandy McCormick

My Commission Expires: 5/10/27

Notary Public State of Florida
Mandy S McCormick
My Commission HH 397257
Expires 5/10/2027

[Notary Seal]

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E-VERIFY AFFIDAVIT

NASSAU COUNTY E-VERIFY FORM UNDER SECTION 448.095, FLORIDA STATUTES

Project Name: Chester Road Intersection Improvements
Bid No./Contract No.: NC23-064

DEFINITIONS:
"Contractor" means a person or entity that has entered or is attempting to enter into a contract with a public employer to provide labor, supplies, or services to such employer in exchange for salary, wages, or other remuneration. "Contractor" includes, but is not limited to, a vendor or consultant.

"Subcontractor" means a person or entity that provides labor, supplies, or services to or for a contractor or another subcontractor in exchange for salary, wages, or other remuneration.

"E-Verify System" means an internet-based system operated by the United States Department of Homeland Security that allows participating employers to electronically verify the employment eligibility of newly hired employees.

Effective January 1, 2021, Contractors, shall register with and use the E-Verify System in order to verify the work authorization status of all newly hired employees. Contractor shall register for and utilize the U.S. Department of Homeland Security's E-Verify System to verify the employment eligibility of:

a. All persons employed by a Contractor to perform employment duties within Florida during the term of the contract; and

b. All persons (including subvendors/subconsultants/subcontractors) assigned by Contractor to perform work pursuant to the contract with Nassau County. The Contractor acknowledges and agrees that registration and use of the U.S. Department of Homeland Security's E-Verify System during the term of the contract is a condition of the contract with Nassau County; and

c. Should vendor become the successful Contractor awarded for the above-named project, by entering into the contract, the Contractor shall comply with the provisions of Section 448.095, Florida Statutes, "Employment Eligibility", as amended from time to time. This includes, but is not limited to, registration and utilization of the E-Verify System to verify the work authorization status of all newly hired employees. The Contractor shall also execute the attached affidavit (Attachment "A") attesting that the Contractor does not employ, contract with, or such affidavit for the duration of the contract; and

d. Contractor shall also require all subcontractors to execute the attached affidavit (Attachment "B") attesting that the subcontractor does not employ, contract with, or subcontract with, an unauthorized alien. The Contractor shall maintain a copy of such affidavit for the duration of the contract.

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

CONTRACT TERMINATION:

a. If Nassau County has a good faith belief that a Contractor has knowingly violated §448.09(1) or §448.095(2), Florida Statutes, the contract shall be terminated.

b. If Nassau County has a good faith belief that a subcontractor has knowingly violated §448.09(1) or §448.095(2), Florida Statutes, but the Contractor otherwise complied with Chapter 448, Florida Statutes, Nassau County shall promptly notify the Contractor and order the Contractor to immediately terminate the contract with the subcontractor.

c. A contract terminated under subparagraph a) or b) is not a breach of contract and may not be considered as such.

d. Any challenge to termination under this provision must be filed in the Circuit Court no later than twenty (20) calendar days after the date of termination.

e. If the contract is terminated for a violation of the Statute by the Contractor, the Contractor may not be awarded a public contract for a period of one (1) year after the date of termination.

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FORM E - 2
SUBCONTRACTOR E-VERIFY AFFIDAVIT

I hereby certify that Kudzue 3 Trucking, Inc. (Subcontractor Company Name) does not employ, contract with, or subcontract with an unauthorized alien, and is otherwise in full compliance with Section 448.095, Florida Statutes.

All employees hired on or after January 1, 2021 have had their work authorization status verified through the E-Verify system.

A true and correct copy of Kudzue 3 Trucking, Inc. (Subcontractor Company Name) proof of registration in the E-Verify system is attached to this Affidavit.

Randy Maloy
Print Name: Randy Maloy
Date: 1/24/2024

STATE OF FLORIDA
COUNTY OF Nassau

The foregoing instrument was acknowledged before me by means of ☑physical presence or ☐online notarization, this Jan 24, 2024 (Date) by Randy Maloy, President (Name of Officer or Agent, Title of Officer or Agent) of Kudzue 3 Trucking, Inc. (Name of Contractor Company Acknowledging), a Florida (State or Place of Incorporation) Corporation, on behalf of the Corporation. He/She is ☑personally known to me or ☐has produced _____ as identification.

Denise R Perkins
Notary Public
DENISE R PERKINS
Printed Name

My Commission Expires: 10-2-25

DENISE R. PERKINS
MY COMMISSION # HH 142569
EXPIRES: October 2, 2025
Bonded Thru Notary Public Underwriters

DocuSign Envelope ID: E991FBF2-A513-4CAC-B32A-E958D0525A4F

E-VERIFY AFFIDAVIT

NASSAU COUNTY E-VERIFY FORM UNDER SECTION 448.095, FLORIDA STATUTES

Project Name: Chester Road Intersection Improvements
Bid No./Contract No.: NC23-064

DEFINITIONS:
"Contractor" means a person or entity that has entered or is attempting to enter into a contract with a public employer to provide labor, supplies, or services to such employer in exchange for salary, wages, or other remuneration. "Contractor" includes, but is not limited to, a vendor or consultant.

"Subcontractor" means a person or entity that provides labor, supplies, or services to or for a contractor or another subcontractor in exchange for salary, wages, or other remuneration.

"E-Verify System" means an internet-based system operated by the United States Department of Homeland Security that allows participating employers to electronically verify the employment eligibility of newly hired employees.

Effective January 1, 2021, Contractors, shall register with and use the E-Verify System in order to verify the work authorization status of all newly hired employees. Contractor shall register for and utilize the U.S. Department of Homeland Security's E-Verify System to verify the employment eligibility of:

a. All persons employed by a Contractor to perform employment duties within Florida during the term of the contract; and

b. All persons (including subvendors/subconsultants/subcontractors) assigned by Contractor to perform work pursuant to the contract with Nassau County. The Contractor acknowledges and agrees that registration and use of the U.S. Department of Homeland Security's E-Verify System during the term of the contract is a condition of the contract with Nassau County; and

c. Should vendor become the successful Contractor awarded for the above-named project, by entering into the contract, the Contractor shall comply with the provisions of Section 448.095, Florida Statutes, "Employment Eligibility", as amended from time to time. This includes, but is not limited to, registration and utilization of the E-Verify System to verify the work authorization status of all newly hired employees. The Contractor shall also execute the attached affidavit (Attachment "A") attesting that the Contractor does not employ, contract with, or such affidavit for the duration of the contract; and

d. Contractor shall also require all subcontractors to execute the attached affidavit (Attachment "B") attesting that the subcontractor does not employ, contract with, or subcontract with, an unauthorized alien. The Contractor shall maintain a copy of such affidavit for the duration of the contract.

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CONTRACT TERMINATION:

a. If Nassau County has a good faith belief that a Contractor has knowingly violated §448.09(1) or §448.095(2), Florida Statutes, the contract shall be terminated.

b. If Nassau County has a good faith belief that a subcontractor has knowingly violated §448.09(1) or §448.095(2), Florida Statutes, but the Contractor otherwise complied with Chapter 448, Florida Statutes, Nassau County shall promptly notify the Contractor and order the Contractor to immediately terminate the contract with the subcontractor.

c. A contract terminated under subparagraph a) or b) is not a breach of contract and may not be considered as such.

d. Any challenge to termination under this provision must be filed in the Circuit Court no later than twenty (20) calendar days after the date of termination.

e. If the contract is terminated for a violation of the Statute by the Contractor, the Contractor may not be awarded a public contract for a period of one (1) year after the date of termination.

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FORM E - 2
SUBCONTRACTOR E-VERIFY AFFIDAVIT

I hereby certify that Standard Utilities, Inc. (Subcontractor Company Name) does not employ, contract with, or subcontract with an unauthorized alien, and is otherwise in full compliance with Section 448.095, Florida Statutes.

All employees hired on or after January 1, 2021 have had their work authorization status verified through the E-Verify system.

A true and correct copy of Standard Utilities, Inc. (Subcontractor Company Name) proof of registration in the E-Verify system is attached to this Affidavit.

Print Name: Shad Dean
Date: 01/22/2024

STATE OF ~~FLORIDA~~ Georgia
COUNTY OF Lowndes

The foregoing instrument was acknowledged before me by means of □physical presence or □online notarization, this 01/22/2024 (Date) by Shad Dean, President (Name of Officer or Agent, Title of Officer or Agent) of Standard Utilities, Inc. (Name of Contractor Company Acknowledging), a Georgia (State or Place of Incorporation) Corporation, on behalf of the Corporation. He/She is ☒personally known to me or □has produced _____ as identification.

Notary Public
Ryan Smith
Printed Name

My Commission Expires: 2/10/2025

RYAN SMITH
NOTARY PUBLIC
My Commission Expires
02-10-2025
LOWNDES COUNTY, GEORGIA

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FORM E - 2
SUBCONTRACTOR E-VERIFY AFFIDAVIT

I hereby certify that P+P Striping, LLC (Subcontractor Company Name) does not employ, contract with, or subcontract with an unauthorized alien, and is otherwise in full compliance with Section 448.095, Florida Statutes.

All employees hired on or after January 1, 2021 have had their work authorization status verified through the E-Verify system.

A true and correct copy of P+P Striping, LLC (Subcontractor Company Name) proof of registration in the E-Verify system is attached to this Affidavit.

Mark Crampton
Print Name: MARK CRAMPTON
Date: 1-25-2024

STATE OF FLORIDA
COUNTY OF Florida

The foregoing instrument was acknowledged before me by means of ☒physical presence or ☐online notarization, this January 25, 2024 (Date) by Mark Crampton (Name of Officer or Agent, Title of Officer or Agent) of P+P Striping (Name of Contractor Company Acknowledging), a Florida (State or Place of Incorporation) Corporation, on behalf of the Corporation. He/She is ☒personally known to me or ☐has produced _____ as identification.

Robert M Bell
Notary Public
Robert M Bell
Printed Name

My Commission Expires: _____

Notary Public State of Florida
Robert M Bell
My Commission HH 122420
Expires 04/26/2025

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 3/7/2024

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER
Liberty Mutual Insurance Co. Nat'l Ins Northeast
500 N 3rd St, Suite 300
Wausau, WI 54403

www.LibertyMutual.com

CONTACT NAME:
PHONE (A/C, No, Ext): **FAX (A/C, No):**
E-MAIL ADDRESS: CMeCertProduction@LibertyMutual.com

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A : Liberty Mutual Fire Insurance Company	23035
INSURER B : LM Insurance Corporation	33600
INSURER C :	
INSURER D :	
INSURER E :	
INSURER F :	

INSURED
Reeves Construction Company
249 Industry Place
St. Augustine FL 32095

COVERAGES **CERTIFICATE NUMBER:** 78992248 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	✓ COMMERCIAL GENERAL LIABILITY	✓	✓	TB2-631-510805-024	4/1/2024	4/1/2025	EACH OCCURRENCE	$ 1,000,000
	☐ CLAIMS-MADE ✓ OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	$ 500,000
	✓ Per Job Aggregate						MED EXP (Any one person)	$ 5,000
	✓ Includes XCU						PERSONAL & ADV INJURY	$ 1,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	$ 2,000,000
	☐ POLICY ✓ PRO-JECT ☐ LOC						PRODUCTS - COMP/OP AGG	$ 2,000,000
	☐ OTHER:							$
A	**AUTOMOBILE LIABILITY**	✓	✓	AS2-631-510805-014	4/1/2024	4/1/2025	COMBINED SINGLE LIMIT (Ea accident)	$ 1,000,000
	✓ ANY AUTO						BODILY INJURY (Per person)	$
	☐ OWNED AUTOS ONLY ☐ SCHEDULED AUTOS						BODILY INJURY (Per accident)	$
	☐ HIRED AUTOS ONLY ☐ NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	$
								$
	☐ **UMBRELLA LIAB** ☐ OCCUR						EACH OCCURRENCE	$
	☐ **EXCESS LIAB** ☐ CLAIMS-MADE						AGGREGATE	$
	☐ DED ☐ RETENTION $							$
B	**WORKERS COMPENSATION AND EMPLOYERS' LIABILITY** Y / N	N / A	✓	WC5-631-510805-034 Covers All States	4/1/2024	4/1/2025	✓ PER STATUTE ☐ OTH-ER	
	ANYPROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? N **(Mandatory in NH)** If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. EACH ACCIDENT	$ 500,000
							E.L. DISEASE - EA EMPLOYEE	$ 500,000
							E.L. DISEASE - POLICY LIMIT	$ 500,000
A	Automobile Physical Damage: ** All Medium, Heavy, Extra Heavy ** All Private Passengers,			AS2-631-510805-014 and Trailer Types Pick Ups and Vans	4/1/2024	4/1/2025	Comp & Coll Deds: $1,500 Comp & Coll Deds: $500	

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Project No. NC23-064, Chester Road Intersection Improvements, Nassau County, Florida
See Additional Remarks Schedule

CERTIFICATE HOLDER

Board of Commissioners, Nassau County, Florida
96135 Nassau Place, Suite 1
Yulee FL 32097

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE
Diane Beaudoin

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SAM.GOV®

REEVES CONSTRUCTION COMPANY

Unique Entity ID	CAGE / NCAGE	Purpose of Registration
MY5TCRAKKWB3	**55RL2**	**All Awards**
Registration Status	Expiration Date	
Active Registration	**Sep 21, 2024**	
Physical Address	Mailing Address	
250 Plemmons RD **Duncan, South Carolina 29334-9482** **United States**	**250 Plemmons RD.** **Duncan, South Carolina 29334** **United States**	

Business Information

Doing Business as	Division Name	Division Number
(blank)	**(blank)**	**(blank)**
Congressional District	State / Country of Incorporation	URL
South Carolina 04	**Georgia / United States**	**(blank)**

Registration Dates

Activation Date	Submission Date	Initial Registration Date
Oct 10, 2023	**Sep 22, 2023**	**Aug 7, 2008**

Entity Dates

Entity Start Date	Fiscal Year End Close Date
Jun 1, 1955	**Dec 31**

Immediate Owner

CAGE	Legal Business Name
492B8	**COLAS INC.**

Highest Level Owner

CAGE	Legal Business Name
F2954	**COLAS (ATELIERS P) SA**

Executive Compensation

Registrants in the System for Award Management (SAM) respond to the Executive Compensation questions in accordance with Section 6202 of P.L. 110-252, amending the Federal Funding Accountability and Transparency Act (P.L. 109-282). This information is not displayed in SAM. It is sent to USAspending.gov for display in association with an eligible award. Maintaining an active registration in SAM demonstrates the registrant responded to the questions.

Proceedings Questions

Registrants in the System for Award Management (SAM.gov) respond to proceedings questions in accordance with FAR 52.209-7, FAR 52.209-9, or 2. C.F.R. 200 Appendix XII. Their responses are displayed in the responsibility/qualification section of SAM.gov. Maintaining an active registration in SAM.gov demonstrates the registrant responded to the proceedings questions.

Exclusion Summary

Active Exclusions Records?

No

SAM Search Authorization

I authorize my entity's non-sensitive information to be displayed in SAM public search results:

Yes

Entity Types

Business Types

Entity Structure	Entity Type	Organization Factors
Corporate Entity (Not Tax Exempt)	**Business or Organization**	**Foreign Owned** **Manufacturer of Goods**

Profit Structure

For Profit Organization

Socio-Economic Types

Check the registrant's Reps & Certs, if present, under FAR 52.212-3 or FAR 52.219-1 to determine if the entity is an SBA-certified HUBZone small business concern. Additional small business information may be found in the SBA's Dynamic Small Business Search if the entity completed the SBA supplemental pages during registration.

Financial Information

Accepts Credit Card Payments	Debt Subject To Offset
Yes	**No**

EFT Indicator	CAGE Code
0000	**55RL2**

Points of Contact

Electronic Business

Ed Bantz, Asst. Controller
250 Plemmons Road
Duncan, South Carolina 29334
United States

Frank Sosnovik
2500 Gray HWY
Macon, Georgia 31211
United States

Government Business

Ed Bantz, Asst. Controller
250 Plemmons Road
Duncan, South Carolina 29334
United States

Frank Sosnovik
2500 Gray HWY
Macon, Georgia 31211
United States

Service Classifications

NAICS Codes

Primary	NAICS Codes	NAICS Title
Yes	**237310**	**Highway, Street, And Bridge Construction**
	212312	**Crushed And Broken Limestone Mining And Quarrying**
	236220	**Commercial And Institutional Building Construction**
	237110	**Water And Sewer Line And Related Structures Construction**
	237210	**Land Subdivision**
	237990	**Other Heavy And Civil Engineering Construction**
	238110	**Poured Concrete Foundation And Structure Contractors**
	238910	**Site Preparation Contractors**
	324121	**Asphalt Paving Mixture And Block Manufacturing**
	488490	**Other Support Activities For Road Transportation**
	488999	**All Other Support Activities For Transportation**
	561210	**Facilities Support Services**
	561990	**All Other Support Services**

Disaster Response

This entity does not appear in the disaster response registry.

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Florida Department of Transportation

RON DESANTIS
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

JARED W. PERDUE, P.E.
SECRETARY

February 28,2023

REEVES CONSTRUCTION COMPANY
250 PLEMMONS ROAD
DUNCAN, SOUTH CAROLINA 29334

RE: CERTIFICATE OF QUALIFICATION

The Department of Transportation has qualified your company for the type of work indicated below.

FDOT APPROVED WORK CLASSES:
DRAINAGE, FLEXIBLE PAVING, GRADING, GRASSING, SEEDING AND SODDING, HOT PLANT-MIXED BITUM. COURSES, INTERMEDIATE BRIDGES, MINOR BRIDGES, UNDERGROUND UTILITIES, (WATER & SANITARY SEWER)

Unless notified otherwise, this Certificate of Qualification will expire **6/30/2024.**

In accordance with Section 337.14(4), Florida Statutes, changes to Ability Factor or Maximum Capacity Rating will not take effect until after the expiration of the current certificate of prequalification (if applicable).

In accordance with Section 337.14(1), Florida Statutes, an application for qualification must be filed within (4) months of the ending date of the applicant's audited annual financial statements.

If the company's maximum capacity has been revised, it may be accessed by logging into the Contractor Prequalification Application System via the following link:
HTTPS://fdotwp1.dot.state.fl.us/ContractorPreQualification

Once logged in, select "View" for the most recently approved application, and then click the "Manage" and "Application Summary" tabs.

The company may apply for a Revised Certificate of Qualification at any time prior to the expiration date of this certificate according to Section 14-22.0041(3), Florida Administrative Code (F.A.C.), by accessing the most recently approved application as shown above and choosing "Update" instead of "View." If certification in additional classes of work is desired, documentation is needed to show that the company has performed such work.

All prequalified contractors are required by Section 14-22.006(3), F.A.C., to certify their work underway monthly in order to adjust maximum bidding capacity to available bidding capacity. You can find the link to this report at the website shown above.

Sincerely,

James E. Taylor II

James E. Taylor II, Prequalification Supervisor
Contracts Administration Office

JTII:cg

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Ron DeSantis, Governor

Melanie S. Griffin, Secretary

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

CONSTRUCTION INDUSTRY LICENSING BOARD

THE UNDERGROUND UTILITY & EXCAVATION CO HEREIN IS CERTIFIED UNDER THE PROVISIONS OF CHAPTER 489, FLORIDA STATUTES

BELL, ROBERT MICHAEL

REEVES CONSTRUCTION COMPANY
100 MORGAN INDUSTRIAL BLVD
SAVANNAH GA 31408

LICENSE NUMBER: CUC1225672

EXPIRATION DATE: AUGUST 31, 2024

Always verify licenses online at MyFloridaLicense.com

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