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CS-23-388
Contract Tracking No. CM3663

CONTRACT FOR PROFESSIONAL CONSTRUCTION ENGINEERING INSPECTION SERVICES FOR CHESTER ROAD AND PAGES DAIRY ROAD INTERSECTION IMPROVEMENTS PROJECT

THIS CONTRACT is entered into by and between the **Board of County Commissioners of Nassau County**, a political subdivision of the State of Florida, hereinafter referred to as the "County", and **CSI Geo, Inc.**, located at 2394 St. Johns Bluff Road South, Suite 200, Jacksonville, FL 32246, hereinafter referred to as the "Consultant" on the day and year last written below (hereinafter "Effective Date").

WHEREAS, the County desires to obtain professional construction engineering inspection services for the Chester Road and Pages Dairy Road intersection improvements project. Said services are more fully described in the County's Request for Qualifications, numbered NC23-065-RFQ, attached hereto and incorporated herein as Exhibit "A"; and

WHEREAS, the Consultant desires to render certain professional services as described in Exhibit "A", and has the qualifications, experience, staff and resources to perform those professional services; and

WHEREAS, the County, through a competitive selection process conducted in accordance with the requirements of law and County policy, and based upon the Consultant's assurance that it has the qualifications, experience, staff and resources, the County has determined that it would be in the best interest of Nassau County to award a contract to the Consultant for the rendering of those services described in Exhibit "A"; and

WHEREAS, a copy of the Vendor's Response is attached hereto as Exhibit "B" and made a part hereof.

NOW THEREFORE, in consideration of the mutual covenants and agreements hereinafter contained, the parties hereto agree as follows:

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SECTION 1. Recitals.

1.1 The above recitals are true and correct and are incorporated herein, in their entirety, by this reference.

SECTION 2. Exhibits.

2.1 The Exhibits listed below are incorporated into and made part of this Contract:

Exhibit "A" COUNTY'S REQUEST FOR QUALIFICATIONS NC23-065-RFQ, ("RFQ")

Exhibit "B" VENDOR'S RESPONSE DATED JANUARY 17, 2024, BUT ONLY TO THE EXTENT RESPONSIVE TO THE RFQ; AND

Exhibit "C" NEGOTIATED FEE SCHEDULE.

SECTION 3. Employment of the Consultant.

3.1 The County hereby agrees to engage the Consultant, and the Consultant hereby agrees to perform the professional services set forth in Exhibits "A" and "B".

SECTION 4. Scope of Services.

4.1 The Consultant shall provide professional services in accordance with Exhibits "A" and "B".

4.2 Services requested by the County or the County's representative that are not set forth in Exhibits "A" and "B" shall be considered additional services. Any request for additional services and additional fees shall be mutually agreed upon by the parties in writing.

SECTION 5. The County's Responsibility.

5.1 The County shall provide the Consultant with all required data, information, and services regarding the requirements and objectives for the services under this Contract. The

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Consultant shall rely upon the accuracy and completeness of any information, reports, data supplied by the County or the County's representative.

5.2 The County hereby designates the County Engineer, or designee, to act on the County's behalf under this Contract. The County Engineer, or designee, under the supervision of the County Manager, shall have complete authority to transmit instructions, receive information, interpret and define the County's policies and decisions with respect to materials, elements and systems pertinent to the provision of the Consultant's services.

SECTION 6. Term of Contract and Option to Extend or Renew.

6.1 The term of this Contract shall begin upon the execution of this Contract by all parties and shall terminate on December 31, 2025. The term of this Contract may be extended in one (1) year increments, with no changes in terms or conditions, upon mutual written agreement between the Consultant and the County. The County Manager is hereby authorized to execute any Contract renewal, amendment and/or modification upon approval by the County Attorney's Office. Any extension or amendment to this Contract shall be subject to availability of funds of the County as set forth in Section 11 hereinbelow.

6.2. In the event that this Contract is continued beyond the term provided above by mutual consent of the parties and not reduced to writing, this Contract shall be carried out on a month-to-month basis and shall not constitute an implied renewal of the Contract. Said month-to-month extension shall be upon the same terms of the Contract and at the compensation and payment provided herein.

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SECTION 7. Compensation.

7.1 The Consultant shall be compensated in an amount not to exceed Five Hundred Forty-One Thousand, Two Hundred Seventy-Six Dollars and 23/100 ($541,276.23), in accordance with Exhibit "C".

7.2 The Consultant shall prepare and submit to the Capital Improvement Projects Director, for approval, an invoice for the services rendered, with a copy provided to invoices@nassaucountyfl.com. Invoices for services shall be paid in accordance with the Florida Prompt Payment Act found at Section 218.70, Florida Statutes. All invoices shall be accompanied by a report or statement identifying the nature of the work performed, the hours required and compensation for the work performed. The report or statement shall show a summary of fees. The County reserves the right to withhold payment to the Consultant for failure to perform the work in accordance with the provisions of this Contract, and the County shall promptly notify the Consultant in writing if any invoice or report is found to be unacceptable and will specify the reasons therefor. The Consultant shall have thirty (30) days to cure any failure upon written notice. Consultant shall honor all purchase orders or work authorizations issued prior to the expiration of the term of this Contract.

7.3 All representation, indemnifications, warranties and guaranties made in, required by or given in accordance with this Contract, as well as all continuing obligations indicated in this Contract, will survive final payment and termination or completion of this Contract.

7.4 Final Invoice: Consultant shall submit to County Consultant's final/last billing to County clearly marked as "Final Invoice." Submittal of the Final Invoice by Consultant to County shall indicate that all services have been performed by Consultant and that all charges

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and costs have been invoiced by the Consultant to County and that there is no further work to be performed and no further invoices to be submitted under this Contract.

SECTION 8. Standard of Care.

8.1 The Consultant shall exercise the same degree of care, skill, and diligence in the performance of the services as is ordinarily provided by a professional under similar circumstances, at the same time, and in the same locality. In the County's sole discretion, upon request by the County, the Consultant shall, at no additional cost to the County, re-perform services which in the sole discretion of the County do not meet the foregoing standard of care.

SECTION 9. Equal Opportunity Employment.

9.1 In connection with the work to be performed under this Contract, the Consultant agrees to comply with the applicable provisions of State and Federal Equal Employment Opportunity statutes and regulations.

SECTION 10. Access to Premises.

10.1 The County shall be responsible for providing access to all project sites (if required), and for providing project site specific information.

SECTION 11. Funding.

11.1 The County's performance and obligation under this Contract is contingent upon an annual appropriation by the Board of County Commissioners for subsequent fiscal years and is subject to termination based on lack of funding.

SECTION 12. Expenses.

12.1 The Consultant shall be responsible for all expenses incurred while performing the services under this Contract including, but not limited to, license fees, memberships and dues; automobile and other travel expenses; meals and entertainment; insurance premiums; and all

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salary, expenses and other compensation paid to the Consultant's agents, if any, hired by the Consultant to complete the work under this Contract.

SECTION 13. Taxes, Liens, Licenses and Permits.

13.1 The Consultant recognizes that the County, by virtue of its sovereignty, is not required to pay any taxes on the services or goods purchased under the terms of this Contract. As such, the Consultant shall refrain from including taxes in any billing. The Consultant is placed on notice that this exemption generally does not apply to nongovernmental entities, contractors, or subcontractors. Any questions regarding this tax exemption shall be addressed to the County Manager.

13.2 The Consultant shall secure and maintain all licenses and permits required to perform the services under this Contract and to pay any and all applicable sales or use tax, or any other tax or assessment which shall be imposed or assessed by any and all governmental authorities, required under this Contract, and to meet all federal, state, county and municipal laws, ordinances, policies and rules.

13.3 The Consultant acknowledges that property being improved that is titled to the County, shall not be subject to a lien of any kind for any reason. The Consultant shall include notice of such exemptions in any subcontracts and purchase orders issued under this Contract.

SECTION 14. Governing Law, Venue and Compliance with Laws.

14.1 This Contract shall be deemed to have been executed and entered into within the State of Florida and any dispute arising hereunder, shall be governed, interpreted and construed according to the laws of the State of Florida, the Ordinances of Nassau County, and any applicable federal statutes, rules and regulations. Any and all litigation arising under this

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Contract shall be brought in Nassau County, Florida, and any trial shall be non-jury. Any mediation, pursuant to litigation, shall occur in Nassau County, Florida.

14.2 The Consultant shall comply with applicable regulatory requirements including federal, state, and local laws, rules, regulations, codes, orders, criteria and standards.

SECTION 15. Modifications.

15.1 The terms of this Contract may be modified only upon the written and mutual consent of both parties, and approval by appropriate legal authority in the County.

SECTION 16. Assignment and Subcontracting.

16.1 The Consultant shall not assign, sublet, convey or transfer its interest in this Contract without the prior written consent of the County.

16.2 In order to assign this Contract, or to subcontract any of the work requirements to be performed, the Consultant shall ensure and provide assurances to the County, that any subcontractor selected for work under this Contract has the necessary qualifications and abilities to perform in accordance with the terms and conditions of this Contract. The Consultant shall provide the County with the names of any subcontractor considered for work under this Contract; the County reserves the right to reject any subcontractor whose qualifications or performance, in the County's sole discretion, are insufficient. The Consultant shall be responsible for all work performed and all expenses incurred with the project. Any subcontract arrangements shall be evidenced by a written document available to the County upon request. The Consultant further agrees that the County shall not be liable to any subcontractor for any expenses or liabilities incurred under the subcontract. The Consultant, at its expense, shall defend the County against such claims.

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16.3 The Consultant shall make payments to any of its subcontractors within seven (7) working days after receipt of full or partial payments from the County in accordance with Section 287.0585, Florida Statutes, unless otherwise stated in the contracts between the Consultant and subcontractors. The Consultant's failure to pay its subcontractor(s) within seven (7) working days shall result in a penalty charged against the Consultant and paid to the subcontractors in the amount of one-half of one percent (0.50%) of the amount due per day from the expiration of the period allowed herein for payment. Such penalty shall be in addition to the actual payments owed and shall not exceed fifteen percent (15%) of the outstanding balance due.

SECTION 17. Severability.

17.1 If any section, subsection, sentence, clause, phrase, or portion of this Contract is, for any reason, held invalid, unconstitutional, or unenforceable by any Court of Competent Jurisdiction, such portion shall be deemed as a separate, distinct, and independent provision, and such holding shall not affect the validity of the remaining portions thereof.

SECTION 18. Termination for Default.

18.1 If the Consultant fails to perform any of its obligations under this Contract, and if such default remains uncured for a period of more than fifteen (15) days after notice thereof was given in writing by the County to the Consultant, then the County may, without prejudice to any right or remedy the County may have, terminate this Contract.

18.2 Upon termination of this Contract, the Consultant shall immediately (1) stop work on the date specified; (2) terminate and settle all orders and subcontracts relating to the performance of the terminated work; (3) transfer all work in process, completed work, and other materials related to the terminated work to the County; (4) render to the County all property belonging to the County, including but not limited to, equipment, books, and records.

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SECTION 19. Termination for Convenience.

19.1 The County reserves the right to terminate this Contract in whole or part by giving the Consultant written notice at least thirty (30) days prior to the effective date of the termination. Upon receipt of written notice of termination from the County, the Consultant shall only provide those services and/or materials specifically approved or directed by the County. All other rights and duties of the parties under the Contract shall continue during such notice period, and the County shall continue to be responsible to the Consultant for the payment of any obligations to the extent such responsibility has not been excused by breach or default of the Consultant. The Consultant shall promptly contact the County to make arrangements to render to the County all property belonging to the County, including but not limited to, equipment, books, and records.

SECTION 20. Nondisclosure of Proprietary Information.

20.1 The Consultant shall consider all information provided by the County and all reports, studies, calculations, and other documentation resulting from the Consultant's performance of the services to be proprietary unless such information is available from public sources. The Consultant shall not publish or disclose proprietary information for any purpose other than the performance of the services without the prior written authorization of the County or in response to legal process.

SECTION 21. Contingent Fees.

21.1 The Consultant warrants that it has not employed or retained any company or person, other than a bona fide employee working solely for the Consultant to solicit or secure this Contract and that it has not paid or agreed to pay any person, company, corporation, individual or firm, other than a bona fide employee working solely for the Consultant, any fee,

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commission, percentage, gift or any other consideration contingent upon or resulting from the award or making of this Contract.

SECTION 22. Ownership of Documents.

22.1 The Consultant shall be required to work in harmony with other County consultants relative to providing information requested in a timely manner and in the specified form. All documents, records, disks, original drawings, or other information shall become the property of the County upon completion for its use and distribution as may be deemed appropriate by the County.

SECTION 23. Force Majeure.

23.1 Neither party of this Contract shall be liable to the other for any cost or damages if the failure to perform the Contract arises out of causes beyond the control and without the fault or negligence of the parties. Such causes may include, but are not restricted to, acts of nature, fires, quarantine restrictions, strikes and freight embargoes. In all cases, the failure to perform shall be totally beyond the control and without any fault or negligence of the party.

23.2 In the event of delay from the foregoing causes, the party shall take all reasonable measures to mitigate any and all resulting delay or disruption in the party's performance obligation under this Contract. If the delay is excusable under this section, the delay shall not result in any additional charge or cost under the Contract to either party. In the case of any delay that the Consultant believes is excusable under this section, the Consultant shall notify the County in writing of the delay or potential delay and describe the cause of the delay either: (1) within ten (10) calendar days after the cause that created or will create the delay first arose, if the Consultant could reasonably foresee that a delay could occur as a result; or (2) within five (5)

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calendar days after the date the Consultant first had reason to believe that a delay could result, if the delay is not reasonably foreseeable. THE FOREGOING SHALL CONSTITUTE THE CONSULTANT'S SOLE REMEDY OR EXCUSE WITH RESPECT TO DELAY. Providing notice in strict accordance with this section is a condition precedent to such remedy. The County, in its sole discretion, shall determine if the delay is excusable under this section and shall notify the Consultant of its decision in writing. No claim for damages, other than for an extension of time, shall be asserted against the County. The Consultant shall not be entitled to an increase in the Contract price or payment of any kind from the County for direct, indirect, consequential, impact, or other costs, expenses or damages, including but not limited to costs of acceleration or inefficiency arising because of delay, disruption, interference, or hindrance from any cause whatsoever. If performance is suspended or delayed, in whole or in part, due to any of the causes described in this section, after the causes have ceased to exist, the Consultant shall perform at no increased cost, unless the County determines, in its sole discretion, that the delay will significantly impair the value of the Contract to the County, in which case, the County may do any or all of the following: (1) accept allocated performance or deliveries from the Consultant, provided that the Consultant grants preferential treatment to the County with respect to products or services subjected to allocation; (2) purchase from other sources (without recourse to and by the Consultant for the related costs and expenses) to replace all or part of the products or services that are the subject of the delay, which purchases may be deducted from the Contract quantity; or (3) terminate the Contract in whole or in part.

SECTION 24. Access And Audits of Records.

24.1 The Consultant shall maintain adequate records to justify all charges, expenses, and costs incurred in providing the services and materials for at least three (3) years after completion

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of work contemplated under this Contract. The County and the County Clerk of Court shall have access to such books, records, and documents as required in this section for the purpose of inspection or audit during normal business hours upon five (5) days' written notice to the Consultant.

SECTION 25. Independent Consultant Status.

25.1 The Consultant shall perform the services under this Contract as an independent contractor and nothing contained herein shall be construed to be inconsistent with this relationship or status. Nothing in this Contract shall be interpreted or construed to constitute the Consultant or any of its agents or employees to be an agent, employee or representative of the County.

25.2 The Consultant and the County agree that during the term of this Contract: (a) the Consultant has the right to perform services for others; (b) the Consultant has the right to perform the services required by this Contract; and (c) the Consultant has the right to hire assistants as subcontractors, or to use employees to provide the services required by this Contract.

SECTION 26. Indemnification.

26.1 The Consultant shall indemnify and hold harmless the County and its agents and employees from all claims, liabilities, damages, losses, expenses and costs, including attorney's fees, arising out of or associated with or caused by the negligence, recklessness, or intentionally wrongful conduct of the Consultant or any persons employed or utilized by the Consultant, in the performance of this Contract. The Consultant shall, at its own expense, defend any and all such actions, suits, or proceedings which may be brought against the County in connection with the Consultant's performance under this Contract.

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SECTION 27. Insurance.

27.1 The Consultant shall provide and maintain at all times during the term of this Contract, without cost or expense to the County, such commercial (occurrence form) or comprehensive general liability, workers compensation, professional liability, and other insurance policies as detailed in Exhibit "A". The policy limits required are to be considered minimum amounts.

27.2 The Consultant shall provide to the County a Certificate of Insurance for all policies of insurance and renewals thereof in a form acceptable to the County. Said certificates shall provide that the Nassau County Board of County Commissioners is an additional insured, and that the County shall be notified in writing of any reduction, cancellation or substantial change of policy or policies at least thirty (30) days prior to the effective date of said action with the exception of ten (10) days for non-payment. All insurance policies shall be issued by responsible companies who are acceptable to the County and licensed and authorized under the laws of the State of Florida.

SECTION 28. Dispute Resolution Process.

28.1 In the event of a dispute regarding the interpretation of the terms of this Contract, the County, in its sole discretion, may elect to use the dispute resolution process as set forth in this section.

28.2 In the event the County elects to use the dispute resolution process under this section, the County shall send a written communication to the Consultant pursuant to Section 35 hereinbelow. The written notification shall set forth the County's interpretation of the terms of this Contract.

28.3 The County shall then set a date and time for the parties to meet with the County

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Manager or designee. This meeting shall be set no more than twenty (20) days from the date that the written communication was sent to the Consultant. The Consultant may submit a written response to the County's written communication no less than five (5) days prior to the meeting with the County Manager or designee.

28.4 If no satisfactory resolution as to the interpretation of the Contract terms is reached at the meeting with the County Manager or designee, then the parties may elect to submit the dispute to mediation in accordance with mediation rules as established by the Florida Supreme Court. Mediators shall be chosen by the County and the cost of mediation shall be borne by the Consultant. The Consultant shall not stop work during the pendency of the dispute resolution or mediation process as set forth in this section.

SECTION 29. E-Verify.

29.1 The Consultant shall 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 the Consultant during the term of this Contract to work in Florida. Additionally, if the Consultant uses subcontractors to perform any portion of the work (under this Contract), the Consultant shall 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.

29.2 The Consultant shall maintain records of its participation and compliance with the provisions of the E-Verify program, including participation by its subcontractors as provided above, and to make such records available to the County or other authorized entity consistent

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with the terms of the Consultant's enrollment in the program. This includes maintaining a copy of proof of the Consultant's and subcontractors' enrollment in the E-Verify program. If the Consultant enters into a contract with a subcontractor, the subcontractor shall provide the Consultant with an affidavit stating that the subcontractor does not employ, contract with, or subcontract with an unauthorized alien. The Consultant shall maintain a copy of such affidavit for the duration of the Contract.

29.3 Compliance with the terms of the E-Verify program provision is made an express condition of this Contract and the County may treat a failure to comply as a material breach of the Contract. If the County terminates the Contract pursuant to Section 448.095(2)(c), Florida Statutes, the Consultant may not be awarded a public contract for at least one (1) year after the date on which the contract was terminated and the Consultant is liable for any additional costs incurred by the County as a result of the termination of this Contract.

SECTION 30. Public Records.

30.1 The County is a public agency subject to Chapter 119, Florida Statutes. **IF THE CONSULTANT HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONSULTANT'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 Consultant is providing services to the County, and pursuant to Section 119.0701, Florida Statutes, the Consultant shall:

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a. Keep and maintain public records required by the County to perform the service.

b. Upon request from the County's custodian of public records, provide the County 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 Consultant does not transfer the records to the County.

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

30.2 A request to inspect or copy public records relating to the County's contract for materials shall be made directly to the County. If the County does not possess the requested records, the County shall immediately notify the Consultant of the request, and the Consultant

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shall provide the records to the public agency or allow the records to be inspected or copied within a reasonable time.

30.3 If the Consultant does not comply with the County's request for records, the County shall enforce the Contract provisions in accordance with the Contract.

30.4 If the Consultant fails to provide the public records to the County within a reasonable time, the Consultant may be subject to penalties under Section 119.10, Florida Statutes.

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

a. The Court determines that the Consultant unlawfully refused to comply with the public records request within a reasonable time; and

b. 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 Consultant has not complied with the request, to the County and to the Consultant.

30.6 A notice complies with Section 30.5 b. hereinabove, if it is sent to the County's custodian of public records and to the Consultant at the Consultant's address listed on its Contract with the County or to the Consultant's registered agent. Such notices shall be sent pursuant to Section 35 hereinbelow.

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

30.8 In reference to any public records requested under this Contract, the Consultant shall identify and mark specifically any information which the Consultant considers confidential

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and/or proprietary, inclusive of trade secrets as defined in Section 812.081, Florida Statutes, and which the Consultant 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."

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

30.10 The Consultant further agrees that by designation of the confidential/proprietary material, the Consultant 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 Consultant'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 Consultant's designation of material as exempt from public disclosure.

SECTION 31. Disclosure Of Litigation, Investigations, Arbitration or Administrative Decisions.

31.1 During the term of this Contract, or any extension thereto, the Consultant shall have the continued duty to disclose to the County Attorney, in writing, upon occurrence, all civil or criminal litigation, arbitration, mediation, or administrative proceeding involving the Consultant. If the existence of the proceeding causes the County concerns that the Consultant's ability or

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willingness to perform this contract is jeopardized, the Consultant may be required to provide the County with reasonable written assurance to demonstrate the Consultant can perform the terms and conditions of the Contract.

SECTION 32. Scrutinized Companies and Public Entity Crimes.

32.1 The Consultant is directed to the Florida Public Entities Crime Act, Section 287.133, Florida Statutes, as well as Section 287.135, Florida Statutes, regarding Scrutinized Companies, and represents to County that the Consultant is qualified to transact business with public entities in Florida, and to enter into and fully perform this Contract subject to the provisions stated therein. Failure to comply with any of the above provisions will be considered a material breach of the Contract.

SECTION 33. Anti-Discrimination.

33.1 The Consultant agrees that it will not discriminate in employment, employee development, or employee advancement because of religious or political opinions or affiliations, race, color, national origin, sex, age, physical handicap, or other factors, except where such factor is a bonified occupational qualification or is required by State and/or Federal Law.

SECTION 34. Advertising.

34.1 The Consultant shall not publicly disseminate any information concerning this Contract without prior written approval from the County, including but not limited to, mentioning the Contract in a press release or other promotional material, identifying the County as a reference, or otherwise linking the Consultant's name and either description of this Contract or the name of the County in any material published, either in print or electronically, to any entity that is not a party this Contract, except potential or actual authorized distributors, dealers, resellers, or service representative.

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SECTION 35. Notices.

35.1 All notices, demands, requests for approvals or other communications given by the parties to another in connection with this Contract shall be in writing, and shall be sent by registered or certified mail, postage prepaid, return receipt requested, or overnight delivery service (such as federal express), or courier service or by hand delivery to the office of each party indicated below:

County: Nassau County
Attn: County Engineer
96135 Nassau Place
Yulee, Florida 32097

Consultant: CSI Geo, Inc.
Attn: William Price
2394 St. Johns Bluff Road South, Suite 200
Jacksonville, FL 32246

SECTION 36. Attorney's Fees.

36.1 Notwithstanding the provisions of Section 30 hereinabove, in the event of any legal action to enforce the terms of this Contract each party shall bear its own attorney's fees and costs.

SECTION 37. Authority to Bind.

37.1 The Consultant represents and warrants that the Consultant's undersigned representative if executing this Contract of behalf of a partnership, corporation or agency has the authority to bind the Company to the terms of this Contract.

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SECTION 38. Conflicting Terms, Representations and No Waiver of Covenants or Conditions.

38.1 In the event of any conflict between the terms of this Contract and the terms of any exhibits, the terms of this Contract shall prevail.

38.2 All representations, indemnifications, warranties and guaranties made by the Consultant in this Contract, as well as all continuing obligations indicated in this Contract, shall survive final payment and termination or completion of this Contract.

38.3 The failure of either party to insist on strict performance of any covenant or condition herein, or to exercise any option herein contained, shall not be construed as a waiver of such covenant, condition, or option in any other instance.

38.4 The Consultant warrants that any goods provided by the Consultant under this Contract shall be merchantable. All goods provided shall be of good quality within the description given by the County, shall be fit for their ordinary purpose, shall be adequately contained and packaged with the description given by the County, shall conform to the agreed upon specifications, and shall conform to the affirmations of facts made by the Consultant or on the container or label.

SECTION 39. Construction of Contract.

39.1 The parties hereby acknowledge that they have fully reviewed this Contract and any exhibits and have had the opportunity to consult with legal counsel of their choice, and that this Contract shall not be construed against any party as if they were the drafter of this Contract.

SECTION 40. Headings.

40.1 The section headings and captions of this Contract are for convenience and reference of the parties and in no way define, limit or describe the scope or intent of this Contract or any part thereof.

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SECTION 41. Entire Agreement and Execution.

41.1 This Contract, together with any exhibits, constitutes the entire Contract between the County and the Consultant and supersedes all prior written or oral understandings.

41.2 This Contract may be executed in any number of counterparts; each executed counterpart hereof shall be deemed an original; and all such counterparts, when taken together, shall be deemed to constitute one and the same instrument.

SECTION 42. Change of Laws.

42.1 If there is a change in any state or federal law, regulation or rule or interpretation thereof, which affects this Contract or the activities of either party under this Contract, and either party reasonably believes in good faith that the change will have a substantial adverse effect on that party's rights or obligations under this Contract, then that party may, upon written notice, require the other party to enter into good faith negotiations to renegotiate the terms of this Contract. If the parties are unable to reach an agreement concerning the modification of this Contract within fifteen (15) days after the date of the notice seeking renegotiation, then either party may terminate this Contract by written notice to the other party. In such event, Consultant shall be paid its compensation for services performed prior to the termination date.

[The remainder of this page left intentionally blank.]

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IN WITNESS WHEREOF, the parties have executed this Contract which shall be deemed an original on the day and year last written below.

BOARD OF COUNTY COMMISSIONERS
NASSAU COUNTY, FLORIDA

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

Attest as to authenticity of the
Chair's signature:

JOHN A. CRAWFORD
Its: Ex-Officio Clerk

Approved as to form and legality by the
Nassau County Attorney

DENISE C. MAY

CSI GEO, INC.

William Price

By: William Price

Its: President/CEO

Date: 4/26/2024

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EXHIBIT "A"

NASSAU COUNTY
FLORIDA

NASSAU COUNTY BOARD OF COUNTY COMMISSIONERS

REQUEST FOR QUALIFICATIONS (RFQ)

PROFESSIONAL CONSTRUCTION ENGINEERING INSPECTION SERVICES FOR CHESTER ROAD AND PAGES DAIRY ROAD INTERSECTION IMPROVEMENTS PROJECT

RFQ NO. NC23-065

PROPOSALS ARE DUE NOT LATER THAN

January 17, 2024 @ 10:00 A.M. EST

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SECTION 1: PROJECT INFORMATION

1.1 PURPOSE:

The Nassau County Board of County Commissioners is soliciting Request for Qualifications from professional firms, registered in the State of Florida, pursuant to Section 287.055, Florida Statutes, known as the Consultant Competitive Negotiation Act (CCNA), to provide Construction Engineering Inspection (CEI) services for the Chester Road and Pages Dairy Road Intersection Improvements Project in Nassau County, Florida.

SECTION 2: SCOPE OF SERVICES

2.1 OVERVIEW

The County seeks a qualified professional engineering firm to provide CEI Services for intersection improvements to Chester and Pages Dairy Roads from David Hallman Parkway to 700' north of Pages Dairy Road in Yulee, Florida. 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. The selected firm will perform services as listed under the Scope of Services, attached hereto as Exhibit "A," or services not specifically mentioned, but directly related to the project.

SECTION 3: FIRMS QUALIFICATIONS AND EXPERIENCE

The County is seeking firms with sufficient experience to work in a collaborative framework with other team members, the public, elected officials, and staff. The Firm must have qualified, licensed technical staff that have experience in and are familiar with governmental projects. Firms must be licensed to practice Professional Engineering in the State of Florida, Florida State Statute 471, by the Board of Professional Regulation, with a minimum of five (5) years of experience on technically complex projects in Florida.

SECTION 4: INSTRUCTIONS AND INFORMATION TO RESPONDENTS

4.1 SCHEDULE OF SELECTION PROCESS/KEY DATES:

Listed below are the dates and time by which stated actions will be taken or completed. The County may determine, in its sole discretion, that it is necessary to change any of these dates and times. All listed times are eastern standard times.

Event	Date	Time
RFQ Available on Planet Bids	December 15, 2023	
Deadline for Questions	January 5, 2024	by 4:00 p.m.
County Responses to Questions Posted to Planet Bids	January 10, 2024	
RFQ Responses Due Date/Time and RFQ Opening Date/Time	January 17, 2024	by 10:00 a.m.
Evaluation Committee (Evaluate/Rank Firms)	Week of January 29, 2024	TBD
Interviews of Shortlisted Firms	Week of February 5, 2024	TBD
Award/Approval	TBD	

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4.2 **SUBMISSION OF REQUEST FOR QUALIFICATIONS (RFQ)**: Proposals must be submitted to the County's eProcurement system, PlanetBids Vendor Portal. The County will not accept proposals by facsimile, paper (hand-carry), email, or any other method. **Proposals must be received no later than the date and time specified in Section 4.1**. Any proposals received after this date and time will be rejected and considered nonresponsive. Proposals will be publicly read and recorded at the office of the Ex-Officio Clerk, Nassau County on date and time specified in Section 4.1.

NOTE: THIS REQUEST FOR QUALIFICATIONS IS A NON-PRICED QUALIFICATIONS-BASED PROCESS. PRICING WILL BE CONSIDERED DURING THE NEGOTIATION PHASE ONLY

4.3 **Respondents are directed to not contact evaluating committee members, County Commissioners, County departments or divisions until an award has been made by the Board of County Commissioners. ALL QUESTIONS FROM RESPONDENTS MUST BE ADDRESSED IN WRITING AND SUBMITTED TO THE NASSAU COUNTY'S EPROCUREMENT SYSTEM, PLANETBIDS VENDOR PORTAL**

4.4 **ADDITIONAL INFORMATION/ADDENDA: Any** ambiguity, conflict, discrepancy, omissions, or other error discovered in this solicitation must be reported immediately and a request made for modifications or clarification. Requests for additional information or clarifications must be made in writing and submitted to NASSAU COUNTY'S EPROCUREMENT SYSTEM, PLANETBIDS VENDOR PORTAL by the question deadline identified in Section 4.1.

The County will issue responses to inquiries and any other corrections or amendments it deems necessary in written addenda issued prior to the RFQ opening date. Respondents should not rely on any representations, statements, or explanations other than those made in this solicitation or in any addendum to this solicitation. Where there appears to be a conflict between the RFQ and any addenda issued, the last addendum issued will prevail.

It is the Respondent's responsibility to be sure all addenda were received. The Respondent should verify with the designated contact person prior to submitting a proposal that all addenda have been received. Respondents are required to acknowledge the number of addenda received as part of their submission of the proposal. Respondents shall submit the Addendum Acknowledgment form attached hereto as Attachment "A."

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

4.5 **PROPOSALS AND PRESENTATION COST:** The County will not be liable in any way for any cost incurred by the Respondent in the preparation of their proposal in response to this RFQ nor for the presentation of their proposals or participation in any discussions or negotiations.

4.6 **RESPONSE FORMAT:** To facilitate and expedite review, the County asks that all Respondents follow the response format outlined below. Failure to submit your response in the format requested may result in the reduction of your overall evaluation score. To assist you in preparing your response, the County's selection procedures are also described herein. Please abide by all requirements set forth to avoid any risk of disqualification.

The maximum length of the response is 50 pages, not including front cover, table of contents, dividers, the contents of "Tab 9" or back cover.

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TAB 1 – Cover Letter

Provide a cover letter no longer than two (2) pages in length, signed by an authorized representative of your Firm that can legally bind the company and provide, his/her title, address, phone number, and email address. Provide a positive commitment to perform the required work. Respondent should also provide the primary contact person for this solicitation including his/her title, phone number, and email address. A table of contents should follow the cover letter.

TAB 2 – Table of Contents

Include a clear identification of the material included in the proposal by page number.

TAB 3 – Team Organization, Experience and Qualifications

The Response shall provide information as to the qualifications and experience of all executives, managerial, legal, and professional personnel, including resumes citing experience with similar projects. Respondents should include:

a. Provide a brief description of your Firm's organization, structure, and philosophy.
b. Provide firm's years of experience and applicable project experience.
c. Project Team. Identify and include qualifications and experience of individuals (include name, contact information, and services the individuals will provide) List any subcontractors that may be used as well.
d. The location of office(s) and identify the office(s) that would provide the project services.
e. Knowledge of and compliance with state and local laws.
f. Describe any significant or unique awards received or accomplishments in previous, similar projects.

TAB 4 – Project Understanding, Approach and Methodology

Provide a comprehensive narrative, outline, and/or graph demonstrating the firm's understanding and approach to accomplishing the Scope of Services attached hereto as Exhibit "A."

Describe the firm's approach in developing cost estimates for each task and provide information regarding any proposed innovative concepts that may enhance value and quality, any favorable cost containment approaches or additional or alternative ideas that may be successful if implemented by Nassau County.

List any innovative technology-based capacities and examples, including but not limited to geospatial analysis tools, 3D modeling tools, publishing software, interactive online platforms, etc. that was utilized on prior projects.

Tab 5 – Quality Control – Describe your firm's quality assurance/quality control (QA/QC) procedures.

TAB 6 – References

Provide a minimum of three (3) examples of similar awards with applicable reference information. References should include the following information:

- Client name, address **AND** phone numbers, and e-mail addresses
- Description of all services provided

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- Performance period
- Total contract value

The list of references for which similar work has been performed shall be included and the list shall include all similar contracts performed by the Respondent within the past five years. The evaluators will randomly select at least three of these references, but the evaluators reserve the right to contact all the references listed, if information from the three references contacted warrant further inquiry. The failure to list all similar contracts in the specified period may result in the rejection of the Respondent's proposal. The evaluators may check all public sources to determine whether Respondent has listed all contracts for similar work within the designated period. If the evaluators determine that references for other public contracts for similar contracts were not listed, the evaluators may contact the public entities to make inquiry into Respondent's performance of those contracts and the information obtained may be considered in evaluating Respondent's proposal.

TAB 7 – CURRENT WORKLOAD

In this section, list your Firm's current projects/workload and schedules for completion and whether you are the prime or sub-consultant.

TAB 8 – PRICE/RATE

This solicitation is being issued in accordance with Florida Statutes Chapter 287.055 "Consultants' Competitive Negotiation Act", and therefore price cannot and will not be a determining factor in the selection of the successful firm. The County will request price/hourly rates once the most qualified firm is selected. The County reserves the right to negotiate price/hourly rates. **DO NOT SUBMIT RATES OR ANY PRICING DETAIL WITH RFQ RESPONSE.**

TAB 9 – Attachments/Administrative Information

All Attachment/Forms required by the RFQ shall be fully completed and executed by an authorized representative that can legally bind the Firm. Respondent shall submit all information to this RFQ in the above order. Failure to do so may diminish your score.

4.7 It is expressly understood that the Board's preference/selection of any proposal does not constitute an award of a Contract with the County. It is further expressly understood that no Contractual relationship exists with the County until a Contract has been formally executed by both the County, and the selected Firm. It is further understood, no Firm may seek or claim any award and/or reimbursement from the County for any expenses, costs, and/or fees (including attorneys' fees) borne by any Respondent, during the entire RFQ process. Such expenses, costs, and/or fees (including attorneys' fees) are the sole responsibility of the Respondent.

4.8 **Public Entities Crimes**. A person or affiliate who has been placed on the convicted Vendors list following a conviction for public entity crime may not submit a proposal on a contract to provide any goods or services to a public entity, may not submit a proposal on a contract with a public entity for the construction or repair of a public building or public work, may not submit proposals on leases of real property to public entity, may not be awarded or perform work as a contactor, supplier, subcontractor, or Respondent under a contract with any public entity, and may not transact business with any public entity in excess of the threshold amount provided in Florida Statutes, Section 287.017, for Category Two for a period of thirty-six (36) months from the date of being placed on the convicted Vendor list. By signature on this solicitation and confirmation on the attached form, Respondent certifies that they are qualified to do business with Nassau County in accordance with Florida Statutes.

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4.9 The Firm, by submission of their proposal, warrants that he or she has not employed or retained any company or person, other than a bona fide employee working solely for the Respondent to solicit or secure the contract and that he or she has not paid or agreed to pay any person, company, corporation, individual, or Firm other than a bona fide employee working solely for the Respondent any fee, commission, percentage, gift, or other consideration contingent upon or resulting from the award or making of the contract. For the breach or violation of this provision, the County shall have the right to terminate the agreement without liability and, at its discretion, to deduct from the contract price, or otherwise recover, the full amount of such fee, commission, percentage, gift, or consideration.

4.10 PROHIBITION AGAINST CONSIDERING SOCIAL, POLITICAL, OR IDEOLOGICAL INTERESTS IN GOVERNMENT CONTRACTING:
Vendor is hereby notified that pursuant to Section 287.05701, Florida Statutes, the County may not request documentation of or consider a vendor's social, political, or ideological interests when determining if the vendor is a responsible vendor and may not give preference to a vendor based on the vendor's social, political, or ideological interests.

SECTION 5. EVALUATION/SELECTION PROCESS

5.1 **Evaluation/Selection Committee**. The Procurement Director will facilitate the evaluation process. The evaluation/selection committee will be responsible for evaluating and ranking each Firm based upon the Request for Qualifications proposal submitted.

5.2 The Evaluation/Selection Committee shall evaluate the responses to the RFQ and rank the Firms based on the evaluation criteria contained herein. The Committee may select a short-list of up to five (5) top-ranked Firms.

5.3 **Evaluation Criteria.** A 100-point formula scoring system will be utilized based upon the following criteria:

Criteria	Max Points
Corporate Background and Experience	20
Project Understanding, Approach and Methodology	20
Team Firm, Experience and Certifications/Qualifications	30
Technology	20
References	10

5.4 The County reserves the right to make selections based on the submittals only or to request oral presentations or questions/answer sessions with the top ranked Firms before determining the final ranking.

5.5 If the County requests oral presentations from the top ranked Firms, a separate evaluation process will be conducted. Any scores from the initial evaluation process for short-ranking purposes will not be used or added to the oral presentation scoring. The evaluation criteria and scoring that will be used for the ranking of the oral presentations will be provided prior to the presentation date.

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SECTION 6. CONTRACT PROCEDURES

6.1 **Presentation to the Board**: The Capital Projects Department shall submit an agenda item for presentation to the Nassau County Board of County Commissioners requesting consideration and approval to award based on the recommendation of the evaluation committee according to the overall ranking and authorization to negotiate a contract with the top-ranked Firms.

6.2 **Competitive Negotiations:** Approval of the recommendation to award by the Nassau County Board of County Commissioners will constitute authorization to negotiate with the top-ranked Firm. The proposal package, signed by the successful Respondent, along with documentation included in the proposal as required by this RFQ and other additional materials submitted by the Respondent, and accepted by the County, shall be the basis for negotiation of a contract. Nassau County shall negotiate a contract with the top ranked Firms for professional services at compensation which Nassau County determines is fair, competitive, and reasonable. The Firm receiving the award shall be required to execute a truth-in-negotiation certificate stating that wage rates and other factual unit costs supporting the compensation are accurate, complete, and current at the time of contracting. During contract negotiations, the County will negotiate fee schedules with the goal of establishing standardized rates. The Board of County Commissioners will have final approval of the terms negotiated.

6.3 **Unable to Negotiate:** Should Nassau County be unable to negotiate a satisfactory contract with the top ranked Firm, negotiations with that Firm must be formally terminated. The County shall then undertake negotiations with the second-ranked Firm. Failing to accord with the second ranked Firm, the agency must terminate negotiations. The County shall then undertake negotiations with the third-ranked Firm. Should the County be unable to negotiate a satisfactory contract with any of the selected Firms, the County shall select additional Firms in the order of their competence and qualification and continue negotiations in accordance with this paragraph until an agreement is reached, or the County reserves the right to terminate all negotiations and reissue a new Request for Qualifications.

SECTION 7. STANDARD CONTRACT TERMS FOR PROFESSIONAL SERVICES

The contract that the County intends to use for award is attached as Attachment “I” for reference only. Any exceptions to this standard contract must be clearly indicated by return of the standard contract with the proposal, with exceptions clearly noted. The County has the right to require the selected respondent to sign the attached contract or to negotiate revisions to the contract language prior to execution of the contract, at its sole discretion. Modification or alteration of the documents contained in the solicitation or contract shall only be valid if mutually agreed to in writing by the Consultant and the County.

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EXHIBIT "A"
SCOPE OF SERVICES

Scope:

Nassau County is seeking the services of an engineering firm to provide the necessary design services for the Chester Road and Pages Dairy Road Intersection Improvement project, in Yulee, Florida. 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

.

The County, on an as needed basis, will furnish the following Construction Contract documents for the project. These documents may be provided in either paper or electronic format.

- Construction Plans,
- Specification Package,
- Copy of the Executed Construction Contract, and
- Utility Agency's Approved Material List (if applicable),
- LAP Requirements, agreements, and specifications

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

RESPONSIBLITIES OF THE CONSULTANT

KICK-OFF MEETING WITH PWG
The Consultant shall commence the project with a kick-off meeting with the County's Capital Projects Department Team. It is expected that the Consultant has undertaken detailed review of the relative background documents and familiarized themselves with the property and context of the project prior to the kick-off meeting. It is expected that the Consultant will be prepared to have a meaningful discussion regarding the project. This is not a meet and greet.

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- **Items Furnished by the Consultant:**

  - Vehicles: Vehicles will be equipped with appropriate safety equipment and must be able to effectively carry out the requirements of the contract.

  - Field Equipment: The Consultant shall supply survey, inspection, and testing equipment, essential in order to carry out the work under this solicitation. Such equipment includes those non-consumable and non-expendable items, which are needed for a CEI project and are essential in order to carry out the work under the Contract.

  - Hard hats shall have the name of the consulting firm visibly displayed.

  - Equipment described herein and expendable materials under the Contract will remain the property of the Consultant and shall be removed at completion of the work.

  - Field office equipment shall be maintained and in operational condition at all times.

- **LIAISON:**

  - The Consultant shall keep the County Engineer, or their designee informed of all significant activities, decisions, correspondence, reports, and other communications related to its responsibilities under the Contract, and seek input from the County Engineer or their designee in order for the County Engineer or their designee to oversee the Consultant's performance.

  - Contract administrative duties relating to Invoice Approval Requests, Personnel Approval Requests, Time Extension Requests, and Supplemental Amendment Requests shall be reviewed and approved by the County Engineer or their designee with concurrence from FDOT and FHWA.

- **PERFORMANCE OF THE CONSULTANT:**

During the term of the Contract and all supplements thereof, the County will review various phases of consultant operations, such as construction inspection, materials sampling and testing, and administrative activities, to determine compliance with the Contract. The Consultant shall cooperate and assist County representatives in conducting the reviews.

- **REQUIREMENTS:**

General: It shall be the responsibility of the Consultant to administer, monitor, and inspect the Construction Contract such that the project is constructed in reasonable conformity with the plans, specifications, and special provisions for the Construction Contract.

The CEI Consultant shall observe the Construction Consultant's work to determine the progress and quality of work, identify discrepancies, report significant discrepancies to the County, and direct the Construction Consultant to correct such observed discrepancies.

The CEI Consultant shall advise the County Engineer or their designee of any significant omissions, substitutions, defects, and deficiencies noted in the work of the Construction Consultant and the corrective action that has been directed to be performed by the Construction Consultant. The work provided by the CEI Consultant shall not relieve the Construction Consultant of responsibility for the satisfactory performance of the Construction Contract. Cooperation with the Inspector General shall be required per F.S. 20.055

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On-site Inspection: The Consultant shall monitor only the Consultant's on-site construction activities and inspect materials entering into the work in accordance with the plans, specifications, and special provisions for the Construction Contract to determine that the projects are constructed in reasonable conformity with such documents. The Consultant shall keep detailed accurate records of the Consultant's daily operations and of significant events that affect the work.

Sampling and Testing: The Consultant shall provide daily surveillance of the Consultant's Quality Control activities at the project site and perform the sampling and testing of materials and completed work items that are normally done in the vicinity of the project for verification and acceptance.

The Consultant shall be specifically responsible for job control samples determining the acceptability of all materials and completed work items on the basis of either test results or verification of a certification, certified mill analysis, DOT label, DOT stamp, etc. The County will monitor the effectiveness of the Consultant's testing procedures through surveillance and obtaining and testing independent assurance samples.

Documentation reports on sampling and testing performed by the Consultant shall be submitted to responsible parties during the same week that the construction work is done.

The Consultant shall be responsible for transporting samples to be tested in an approved laboratory.

The Consultant will input verification testing information and data into the Consultant’s database.

Engineering Services: The CEI Consultant shall coordinate the Construction Contract administration activities of all parties other than the Construction Consultant involved in completing the construction project. Notwithstanding the above, the Construction Contractor is not liable to the County for the failure of such parties to follow written direction issued by the CEI Consultant.

Services include maintaining the required level of surveillance of Construction Consultant activities, interpreting plans, specifications, and special provisions for the Construction Contract, maintaining complete, accurate records of all activities and events relating to the project, and properly documenting all significant project changes. The CEI Consultant shall perform the following services:

- Verify that the Construction Consultant is conducting inspections, preparing reports, and monitoring all storm water pollution prevention measures associated with the project. Provide at least one inspector who has successfully completed the "Florida Storm water, Erosion, and Sedimentation Control Training and Certification Program for Inspectors and Consultants”.

- Analyze the Construction Consultant’s schedule(s) (i.e., baseline(s), revised baseline(s), updates, as- built, etc.) for compliance with the contract documents. Elements including, but not limited to, completeness, logic, durations, activity flow, milestone dates, concurrency, resource allotment, and delays will be reviewed. Verify the schedule conforms with the construction phasing and MOT sequences, includes all contract modifications, and the Consultant’s plan for completing the project within the allowed contract time is reasonable. Provide a written review of the schedule identifying significant omissions, improbable or unreasonable activity durations, errors in logic, and any other concerns.

- Analyze problems that arise on a project and proposals submitted by the Construction Consultant, work to resolve such issues, and process the necessary paperwork.

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- If applicable, Monitor, inspect and document utility construction for conformance with Utility Agency's Water and Sewer Standards and the Utility Agency's Approved Materials List. Facilitate coordination and communication between Utility Agency's representatives, County's staff, and consultants in execution of the work. Identify potential utility conflicts and assist in the resolution of utility issues.

- Produce reports, verify quantity calculations, and field measure for payment purposes as needed to prevent delays in consultant operations and to facilitate processing of such information in order for the County to make timely payment to the Construction Consultant.

- Provide Public Information services as required to manage inquiries from the public, public officials, and the news media. Prepare newsletters for distribution to adjacent property owners. The County Engineer or their designee shall approve all notices, brochures, responses to news media, etc., prior to release.

- Video tape the pre-construction conditions throughout the project limits. Provide a digital photo log or video of project activities, with heavy emphasis on potential claim items/issues and on areas of real/potential public controversy.

The CEI Consultant shall have a digital camera for photographic documentation of pre- construction state and of noteworthy incidents or events during construction. These photographs will be filed and maintained on the CEI Consultant's computer.

PERSONNEL:

The CEI Consultant shall staff the project with the qualified personnel necessary to carry out its responsibilities efficiently and effectively under the contract.

Personnel Qualifications: The CEI Consultant shall utilize only competent personnel, qualified by experience, and education.

Staffing: Once authorized, the CEI Consultant shall establish and maintain an appropriate staff through the duration of construction and completion of the final estimate. Responsible personnel, thoroughly familiar with all aspects of construction and final measurements of the various pay items, shall be available to resolve disputed final pay quantities until the appropriate Construction Contract has been paid off.

Construction engineering and inspection forces will be required of the CEI Consultant while the Construction Consultant is working.

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EXHIBIT "B"

GENERAL INFORMATION AND MINIMUM INSURANCE REQUIREMENTS

COMMERCIAL GENERAL LIABILITY INSURANCE

The Vendor/Contractor shall purchase and maintain at the Vendor/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
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 Vendor/Contractor shall purchase and maintain at the Vendor/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 Vendor/Contractor shall purchase and maintain at the Vendor/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 Vendor/Contractor, 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 Vendor/Contractor.

PROFESSIONAL LIABILITY (ERRORS & OMISSIONS)

This additional coverage will be required for all projects involving consultants, engineering services, architectural or design/build projects, independent testing firms and similar exposures.

The Contractor/Vendor shall purchase and maintain at the Contractor/Vendor's expense Professional Liability insurance coverage for the life of this Contract.

If the contract includes a requirement for Professional Liability or Errors and Omissions insurance, the minimum amount of such insurance shall be as follows:

Each Occurrence/Annual Aggregate – $1,000,000

Design Professional Liability coverage will be provided on an Occurrence Form or a Claims Made Form with a retroactive date to at least the first date of this Agreement. If provided on a Claims Made Form, the coverages must

respond to all claims reported within three years following the period for which coverage is required and which would have been covered had the coverage been on an occurrence basis.

Vendor/Contractor shall require each of his Sub-Vendor/Contractors to likewise purchase and maintain at their expense Commercial General Liability insurance, Workers' Compensation and Employer's Liability coverage and Automobile Liability insurance coverage meeting the same limit and requirements as the Vendor/Contractors insurance.

Certificates of Insurance and the insurance policies required for this Agreement shall contain –

- **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.**
  - **Nassau County Board of County Commissioners must be named as an Additional Insured and endorsed onto the Commercial General Liability (CGL), Auto Liability policy (ies).**
  - **CGL policy for construction related contracts –**
    - **Additional Insured Endorsement must include Ongoing and Completed**
    - **CGL policy shall not be endorsed with Contractual Liability Limitation Endorsement or Amendment of Insured Contract Definition**
    - **CGL policy shall include broad form contractual liability coverage for the Contractors covenants to and indemnification of the Authority under this Contract**
- **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.**
- **Provision that policies, except Workers' Compensation, are primary and noncontributory.**

Certificates of Insurance and the insurance policies required for this Agreement shall contain a provision under General Liability, Auto Liability, Environmental Liability and Workers' Compensation to include a Waiver of Subrogation clause in favor of Nassau County Board of County Commissioners.

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, Vendor/Contractor shall submit an additional Certificate of Insurance evidencing continuation of such coverage.

If the Vendor/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 Vendor/Contractor, in which event, Vendor/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 Vendor/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 Vendor/Contractors coverage based on the evidence of insurance provided by the Vendor/Contractor shall not be construed as a waiver by Nassau County Board of County Commissioners of Vendor/Contractor's obligation to procure, maintain and pay for required insurance.

The insurance requirements set forth herein shall in no way limit Vendor/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 Vendor/Contractor's right under any policy with higher limits, and no policy maintained by the Vendor/Contractor shall be construed as limiting the type, quality or quantity of insurance coverage that Vendor/Contractor should maintain. Vendor/Contractor shall be responsible for determining appropriate inclusions, coverage and limits, which may be in excess of the minimum requirements set forth herein.

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If the insurance of any Vendor/Contractor or any Sub-Vendor/Contractor contains deductible(s), penalty(ies) or self-insured retention(s), the Vendor/Contractor or Sub-Vendor/Contractor 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 Vendor/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.

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FORM A
ADDENDA ACKNOWLEDGMENT

Acknowledgment is hereby made of receipt of addenda issued during the solicitation period. Addendum # _____ through #_____	
Signature of Person Completing:	**Date:**
Printed Name:	**Title:**

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FORM B
SWORN STATEMENT
UNDER FLORIDA STATUTE 287.133(3)(a) ON PUBLIC ENTITY CRIMES

TO BE RETURNED WITH BID

THIS MUST BE SIGNED IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICER AUTHORIZED TO ADMINISTER OATHS.

1. This sworn statement is submitted with Bid, Proposal or Contract for _____.

2. This sworn statement is submitted by _____ (entity submitting sworn statement), whose business address is _____ _____ and its Federal Employee Identification Number (FEIN) is _____. (If the entity has no FEIN, include the Social Security Number of the individual signing this sworn statement: _____.)

3. My name is _____ (please print name of individual signing), and my relationship to the entity named above is _____.

4. I understand that a "public entity crime" as defined in Paragraph 287.133(1)(g), Florida Statutes, means 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 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, any leases for real property, or any contract for the construction or repair of a public building or public work, to be provided to any public entity or an agency or political subdivision of any other state or of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.

5. I understand that "convicted" or "conviction" as defined in paragraph 287.133(1)(b), Florida Statutes, means a finding of guilt or a conviction or a public entity crime, with or without an adjudication of guilt, in any federal or state trial court of record relating to charges brought by indictment or information after July 1, 1989, as a result of a jury verdict, non-jury trial, or entry of a plea of guilty or nolo contendere.

6. I understand that an "affiliate" as defined in paragraph 287.133(1)(a), Florida Statutes, means:
    a. A predecessor or successor of a person convicted of a public entity crime; or
    b. An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one person of shares constituting a controlling interest in another person, or a pooling of equipment or income among persons when not to fair market value under an arm's length agreement, shall be prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding thirty-six (36) months shall be considered an affiliate.

7. I understand that a "person" as defined in Paragraph 287.133(1)(e), Florida Statutes, means any natural person or entity organized under the laws of any state or of the United States with the legal power to enter into binding contract and which bids or applies to bid on contracts let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers, directors, executives, partners, shareholders, employees,

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members, and agents who are active in management of an entity. 8. Based on information and belief, the statement, which I have marked below, is true in relation to the entity submitting this sworn statement. (***Please indicate which statement applies.****)*

☐ Neither the entity submitting this sworn statement, nor any of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, nor any affiliate of the entity have been charged with and convicted of a public entity crime subsequent to July 1, 1989.

☐ The entity submitting this sworn statement, or one of more of the officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989, and (Please indicate which additional statement applies.)

☐ There has been a proceeding concerning the conviction before a hearing officer of the State of Florida, Division of Administrative Hearings. The final order entered by the Hearing Officer did not place the person or affiliate on the convicted vendor list. (Please attach a copy of the final order.)

☐ The person or affiliate was placed on the convicted vendor list. There has been a subsequent proceeding before a hearing officer of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer determined that it was in the public interest to remove the person or affiliate from the convicted vendor list. (Please attach a copy of the final order.)

☐ The person or affiliate has not been placed on the convicted vendor list. (Please describe any action taken by or pending with the Department of General Services.)

_____
Signature

_____
Date

State of: _____
County of: _____

Sworn to (or affirmed) and subscribed before me by means of _____ physical presence or _____ online notarization, this _____ day of _____, 20 ___ by _____ _____who is ___ personally known to me or ___ produced _____ as identification.

_____
Notary Public
My commission expires: _____

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FORM C
RESPONDENT QUESTIONNAIRE

The following questionnaire shall be answered by the Respondent for use in the evaluation process.

1. Company Name:_____
   Address: _____
   City/State/Zip: _____
   Phone: Email: _____
   Website Address: _____

2. **COMPANY STRUCTURE:**
   ☐Sole Proprietor ☐Partnership ☐Corporation ☐Other_____

3. Are you registered with the FL Secretary of State to conduct business? ☐Yes ☐No

4. Are you properly licensed/certified by the Federal or State to perform the specified services?
   ☐Yes ☐No

5. **EXPERIENCE:**
   Years in business: _____
   Years in business under this name: _____
   Years performing this type of work: _____
   Value of work now under contract: _____
   Value of work in place last year: _____
   Percentage (%) of work usually self-performed: _____
   Name of sub-vendors you may use: _____
   Has your company: Failed to complete or defaulted on a contract: ☐Yes ☐No
   Been involved in bankruptcy or reorganization: ☐Yes ☐No
   Pending judgment claims or suits against firm: ☐Yes ☐No

6. **PERSONNEL**
   How many employees does your company employ: _____
   (may use additional sheets if needed).

Position/Category (List all)	Full-time	Part-time
Management		

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7. REFERENCES:

List at least three references for which you have provided these services (similar scope/size) in the past five years - preferably government agencies.

Reference #1:
Company/Agency Name: _____
Address: _____
Contract Person: _____
Phone: Email: _____
Project Description: _____
Contract $ Amount: _____
Date Completed: _____

Reference #2:
Company/Agency Name: _____
Address: _____
Contract Person: _____
Phone: Email: _____
Project Description: _____
Contract $ Amount: _____
Date Completed: _____

Reference #3:
Company/Agency Name: _____
Address: _____
Contract Person: _____
Phone: Email: _____
Project Description: _____
Contract $ Amount: _____
Date Completed: _____

8. NOTICE OF PARTIES AND BINDING AUTHORITY

The following information is required if Respondent is selected for award of a contract with the County.

Notice to Parties

All notices, demands, requests for approvals or other communications shall be in writing, and shall be sent by registered or certified mail, postage prepaid, return receipt requested, or overnight delivery service (such as federal express), or courier service or by hand delivery to:

Contractor Name: _____
Attn: _____
Mailing Address: _____
_____

Binding Authority

The person to execute the contract must be an officer of the company. If not an officer of the company, Respondent must provide proof of signing authority. Please provide the name, email address, and phone number of person who will execute the contract, if awarded.
Name of Person to execute contract (if awarded): _____
Title: _____
Email Address: _____
Phone Number: _____

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FORM D
DRUG FREE WORKPLACE CERTIFICATE

I, the undersigned, in accordance with Florida Statute 287.087, hereby certify that _____ (print or type name of firm):

1. 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.

2. 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.

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

4. 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.

5. 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.

6. Makes a good faith effort to continue to maintain a drug free workplace through the implementation of a drug free workplace 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

State of: _____
County of: _____

Sworn to (or affirmed) and subscribed before me by means of _____ physical presence or _____ online notarization, this _____ day of _____, 20 ___ by _____ _____who is ___ personally known to me or ___ produced _____ as identification.

_____
Notary Public
My commission expires: _____

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FORM E
E-VERIFY AFFIDAVIT

NASSAU COUNTY E-VERIFY FORM UNDER SECTION 448.095, FLORIDA STATUTES

Project Name: _____
Bid No./Contract No.:_____

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 _____ (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 _____ (Contractor Company Name) proof of registration in the E-Verify system is attached to this Affidavit.

_____
Print Name:_____
Date:_____

STATE OF FLORIDA
COUNTY OF _____

The foregoing instrument was acknowledged before me by means of □physical presence or □online notarization, this _____ (Date) by _____ (Name of Officer or Agent, Title of Officer or Agent) of _____ (Name of Contractor Company Acknowledging), a _____(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

_____
Printed Name

My Commission Expires: _____

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FORM E - 2
SUBCONTRACTOR E-VERIFY AFFIDAVIT

I hereby certify that _____ (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 _____ (Subcontractor Company Name) proof of registration in the E-Verify system is attached to this Affidavit.

_____
Print Name:_____
Date:_____

STATE OF FLORIDA
COUNTY OF _____

The foregoing instrument was acknowledged before me by means of □physical presence or □online notarization, this _____ (Date) by _____ (Name of Officer or Agent, Title of Officer or Agent) of _____ (Name of Contractor Company Acknowledging), a _____(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

_____
Printed Name

My Commission Expires: _____

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CONTRACT FOR PROFESSIONAL SERVICES

THIS CONTRACT is entered into by and between the **Board of County Commissioners of Nassau County**, a political subdivision of the State of Florida, hereinafter referred to as the "County", and _____, located at _____, hereinafter referred to as the "Consultant".

WHEREAS, the County desires to obtain professional services for _____. Said services are more fully described in the _____, attached hereto and incorporated herein as Exhibit "A"; and

WHEREAS, the Consultant desires to render certain professional services as described in Exhibit "A", and has the qualifications, experience, staff and resources to perform those professional services; and

WHEREAS, the County, through a competitive selection process conducted in accordance with the requirements of law and County policy, and based upon the Consultant's assurance that it has the qualifications, experience, staff and resources, the County has determined that it would be in the best interest of Nassau County to award a contract to the Consultant for the rendering of those services described in Exhibit "A".

NOW THEREFORE, in consideration of the mutual covenants and agreements hereinafter contained, the parties hereto agree as follows:

SECTION 1. Recitals.

1.1 The above recitals are true and correct and are incorporated herein, in their entirety, by this reference.

SECTION 2. Exhibits.

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2.1 The Exhibits listed below are the exhibits incorporated into and made part of this Contract:

Exhibit A VENDOR'S SCOPE OF PROFESSIONAL SERVICES

Exhibit B INSURANCE DOCUMENTS

SECTION 3. Employment of the Consultant.

3.1 The County hereby agrees to engage the Consultant, and the Consultant hereby agrees to perform the professional services set forth in Exhibit "A".

SECTION 4. Scope of Services.

4.1 The Consultant shall provide professional services in accordance with Exhibit "A".

4.2 Services requested by the County or the County's representative that are not set forth in Exhibit "A" shall be considered additional services. Any request for additional services and additional fees shall be mutually agreed upon by the parties in writing.

SECTION 5. The County's Responsibility.

5.1 The County shall provide the Consultant with all required data, information, and services regarding the requirements and objectives for the services under this Contract. The Consultant shall rely upon the accuracy and completeness of any information, reports, data supplied by the County or the County's representative.

5.2 The County hereby designates the _____, or designee, to act on the County's behalf under this Contract. The _____, or designee, under the supervision of the County Manager, shall have complete authority to transmit instructions, receive information, interpret and define the County's policies and decisions with respect to materials, elements and systems pertinent to the provision of the Consultant's services.

SECTION 6. Term of Contract and Option to Extend or Renew.

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6.1 The term of this Contract shall begin upon the execution of this Contract by all parties and shall terminate on _____. The term of this Contract may be extended in one (1) year increments, with no changes in terms or conditions, upon mutual written agreement between the Consultant and the County. Any extension or amendment to this Contract shall be subject to availability of funds of the County as set forth in Section 11 hereinbelow.

6.2. In the event that this Contract is continued beyond the term provided above by mutual consent of the parties and not reduced to writing, this Contract shall be carried out on a month-to-month basis and shall not constitute an implied renewal of the Contract. Said month-to-month extension shall be upon the same terms of the Contract and at the compensation and payment provided herein.

SECTION 7. Compensation.

7.1 The Consultant shall be compensated in an amount not to exceed _____, in accordance with Exhibit "A".

7.2 The Consultant shall prepare and submit to the _____, for approval, an invoice for the services rendered, with a copy provided to invoices@nassaucountyfl.com. Invoices for services shall be paid in accordance with the Florida Prompt Payment Act found at Section 218.70, Florida Statutes. All invoices shall be accompanied by a report or statement identifying the nature of the work performed, the hours required and compensation for the work performed. The report or statement shall show a summary of fees. The County reserves the right to withhold payment to the Consultant for failure to perform the work in accordance with the provisions of this Contract, and the County shall promptly notify the Consultant in writing if any invoice or report is found to be unacceptable and will specify the reasons therefor. The Consultant shall have thirty (30) days to

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cure any failure upon written notice. Consultant shall honor all purchase orders or work authorizations issued prior to the expiration of the term of this Contract.

7.3 All representation, indemnifications, warranties and guaranties made in, required by or given in accordance with this Contract, as well as all continuing obligations indicated in this Contract, will survive final payment and termination or completion of this Contract.

7.4 Final Invoice: Consultant shall submit to County Consultant's final/last billing to County clearly marked as "Final Invoice." Submittal of the Final Invoice by Consultant to County shall indicate that all services have been performed by Consultant and that all charges and costs have been invoiced by the Consultant to County and that there is no further work to be performed and no further invoices to be submitted under this Contract.

SECTION 8. Standard of Care.

8.1 The Consultant shall exercise the same degree of care, skill, and diligence in the performance of the services as is ordinarily provided by a professional under similar circumstances, at the same time, and in the same locality. In the County's sole discretion, upon request by the County, the Consultant shall, at no additional cost to the County, re-perform services which in the sole discretion of the County do not meet the foregoing standard of care.

SECTION 9. Equal Opportunity Employment.

9.1 In connection with the work to be performed under this Contract, the Consultant agrees to comply with the applicable provisions of State and Federal Equal Employment Opportunity statutes and regulations.

SECTION 10. Access to Premises.

10.1 The County shall be responsible for providing access to all project sites (if required), and for providing project site specific information.

SECTION 11. Funding.

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11.1 The County's performance and obligation under this Contract is contingent upon an annual appropriation by the Board of County Commissioners for subsequent fiscal years and is subject to termination based on lack of funding.

SECTION 12. Expenses.

12.1 The Consultant shall be responsible for all expenses incurred while performing the services under this Contract including, but not limited to, license fees, memberships and dues; automobile and other travel expenses; meals and entertainment; insurance premiums; and all salary, expenses and other compensation paid to the Consultant's agents, if any, hired by the Consultant to complete the work under this Contract.

SECTION 13. Taxes, Liens, Licenses and Permits.

13.1 The Consultant recognizes that the County, by virtue of its sovereignty, is not required to pay any taxes on the services or goods purchased under the terms of this Contract. As such, the Consultant shall refrain from including taxes in any billing. The Consultant is placed on notice that this exemption generally does not apply to nongovernmental entities, contractors, or subcontractors. Any questions regarding this tax exemption shall be addressed to the County Manager.

13.2 The Consultant shall secure and maintain all licenses and permits required to perform the services under this Contract and to pay any and all applicable sales or use tax, or any other tax or assessment which shall be imposed or assessed by any and all governmental authorities, required under this Contract, and to meet all federal, state, county and municipal laws, ordinances, policies and rules.

13.3 The Consultant acknowledges that property being improved that is titled to the County, shall not be subject to a lien of any kind for any reason. The Consultant shall include notice of such exemptions in any subcontracts and purchase orders issued under this Contract.

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SECTION 14. Governing Law, Venue and Compliance with Laws.

14.1 This Contract shall be deemed to have been executed and entered into within the State of Florida and any dispute arising hereunder, shall be governed, interpreted and construed according to the laws of the State of Florida, the Ordinances of Nassau County, and any applicable federal statutes, rules and regulations. Any and all litigation arising under this Contract shall be brought in Nassau County, Florida, and any trial shall be non-jury. Any mediation, pursuant to litigation, shall occur in Nassau County, Florida.

14.2 The Consultant shall comply with applicable regulatory requirements including federal, state, and local laws, rules, regulations, codes, orders, criteria and standards.

SECTION 15. Modifications.

15.1 The terms of this Contract may be modified only upon the written and mutual consent of both parties, and approval by appropriate legal authority in the County.

SECTION 16. Assignment and Subcontracting.

16.1 The Consultant shall not assign, sublet, convey or transfer its interest in this Contract without the prior written consent of the County.

16.2 In order to assign this Contract, or to subcontract any of the work requirements to be performed, the Consultant shall ensure and provide assurances to the County, that any subcontractor selected for work under this Contract has the necessary qualifications and abilities to perform in accordance with the terms and conditions of this Contract. The Consultant shall provide the County with the names of any subcontractor considered for work under this Contract; the County reserves the right to reject any subcontractor whose qualifications or performance, in the County's sole discretion, are insufficient. The Consultant shall be responsible for all work performed and all expenses incurred with the project. Any subcontract arrangements shall be evidenced by a written document available to the County upon request. The Consultant further

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agrees that the County shall not be liable to any subcontractor for any expenses or liabilities incurred under the subcontract. The Consultant, at its expense, shall defend the County against such claims.

16.3 The Consultant shall make payments to any of its subcontractors within seven (7) working days after receipt of full or partial payments from the County in accordance with Section 287.0585, Florida Statutes, unless otherwise stated in the contracts between the Consultant and subcontractors. The Consultant's failure to pay its subcontractor(s) within seven (7) working days shall result in a penalty charged against the Consultant and paid to the subcontractors in the amount of one-half of one percent (0.50%) of the amount due per day from the expiration of the period allowed herein for payment. Such penalty shall be in addition to the actual payments owed and shall not exceed fifteen percent (15%) of the outstanding balance due.

SECTION 17. Severability.

17.1 If any section, subsection, sentence, clause, phrase, or portion of this Contract is, for any reason, held invalid, unconstitutional, or unenforceable by any Court of Competent Jurisdiction, such portion shall be deemed as a separate, distinct, and independent provision, and such holding shall not affect the validity of the remaining portions thereof.

SECTION 18. Termination for Default.

18.1 If the Consultant fails to perform any of its obligations under this Contract, and if such default remains uncured for a period of more than fifteen (15) days after notice thereof was given in writing by the County to the Consultant, then the County may, without prejudice to any right or remedy the County may have, terminate this Contract.

18.2 Upon termination of this Contract, the Consultant shall immediately (1) stop work on the date specified; (2) terminate and settle all orders and subcontracts relating to the performance of the terminated work; (3) transfer all work in process, completed work, and other

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materials related to the terminated work to the County; (4) render to the County all property belonging to the County, including but not limited to, equipment, books, and records.

SECTION 19. Termination for Convenience.

19.1 The County reserves the right to terminate this Contract in whole or part by giving the Consultant written notice at least thirty (30) days prior to the effective date of the termination. Upon receipt of written notice of termination from the County, the Consultant shall only provide those services and/or materials specifically approved or directed by the County. All other rights and duties of the parties under the Contract shall continue during such notice period, and the County shall continue to be responsible to the Consultant for the payment of any obligations to the extent such responsibility has not been excused by breach or default of the Consultant. The Consultant shall promptly contact the County to make arrangements to render to the County all property belonging to the County, including but not limited to, equipment, books, and records.

SECTION 20. Nondisclosure of Proprietary Information.

20.1 The Consultant shall consider all information provided by the County and all reports, studies, calculations, and other documentation resulting from the Consultant's performance of the services to be proprietary unless such information is available from public sources. The Consultant shall not publish or disclose proprietary information for any purpose other than the performance of the services without the prior written authorization of the County or in response to legal process.

SECTION 21. Contingent Fees.

21.1 The Consultant warrants that it has not employed or retained any company or person, other than a bona fide employee working solely for the Consultant to solicit or secure this Contract and that it has not paid or agreed to pay any person, company, corporation,

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individual or firm, other than a bona fide employee working solely for the Consultant, any fee, commission, percentage, gift or any other consideration contingent upon or resulting from the award or making of this Contract.

SECTION 22. Ownership of Documents.

22.1 The Consultant shall be required to work in harmony with other County consultants relative to providing information requested in a timely manner and in the specified form. All documents, records, disks, original drawings, or other information shall become the property of the County upon completion for its use and distribution as may be deemed appropriate by the County.

SECTION 23. Force Majeure.

23.1 Neither party of this Contract shall be liable to the other for any cost or damages if the failure to perform the Contract arises out of causes beyond the control and without the fault or negligence of the parties. Such causes may include, but are not restricted to, acts of nature, fires, quarantine restrictions, strikes and freight embargoes. In all cases, the failure to perform shall be totally beyond the control and without any fault or negligence of the party.

23.2 In the event of delay from the foregoing causes, the party shall take all reasonable measures to mitigate any and all resulting delay or disruption in the party's performance obligation under this Contract. If the delay is excusable under this section, the delay shall not result in any additional charge or cost under the Contract to either party. In the case of any delay that the Consultant believes is excusable under this section, the Consultant shall notify the County in writing of the delay or potential delay and describe the cause of the delay either: (1) within ten (10) calendar days after the cause that created or will create the delay first arose, if the Consultant could reasonably foresee that a delay could occur as a result; or (2) within five (5) calendar days after the date the Consultant first had reason to believe that a delay could result, if

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the delay is not reasonably foreseeable. THE FOREGOING SHALL CONSTITUTE THE CONSULTANT'S SOLE REMEDY OR EXCUSE WITH RESPECT TO DELAY. Providing notice in strict accordance with this section is a condition precedent to such remedy. The County, in its sole discretion, shall determine if the delay is excusable under this section and shall notify the Consultant of its decision in writing. No claim for damages, other than for an extension of time, shall be asserted against the County. The Consultant shall not be entitled to an increase in the Contract price or payment of any kind from the County for direct, indirect, consequential, impact, or other costs, expenses or damages, including but not limited to costs of acceleration or inefficiency arising because of delay, disruption, interference, or hindrance from any cause whatsoever. If performance is suspended or delayed, in whole or in part, due to any of the causes described in this section, after the causes have ceased to exist, the Consultant shall perform at no increased cost, unless the County determines, in its sole discretion, that the delay will significantly impair the value of the Contract to the County, in which case, the County may do any or all of the following: (1) accept allocated performance or deliveries from the Consultant, provided that the Consultant grants preferential treatment to the County with respect to products or services subjected to allocation; (2) purchase from other sources (without recourse to and by the Consultant for the related costs and expenses) to replace all or part of the products or services that are the subject of the delay, which purchases may be deducted from the Contract quantity; or (3) terminate the Contract in whole or in part.

SECTION 24. Access And Audits of Records.

24.1 The Consultant shall maintain adequate records to justify all charges, expenses, and costs incurred in providing the services and materials for at least three (3) years after completion of work contemplated under this Contract. The County and the County Clerk of Court shall have access to such books, records, and documents as required in this section for the purpose of

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inspection or audit during normal business hours upon five (5) days' written notice to the Consultant.

SECTION 25. Independent Consultant Status.

25.1 The Consultant shall perform the services under this Contract as an independent contractor and nothing contained herein shall be construed to be inconsistent with this relationship or status. Nothing in this Contract shall be interpreted or construed to constitute the Consultant or any of its agents or employees to be an agent, employee or representative of the County.

25.2 The Consultant and the County agree that during the term of this Contract: (a) the Consultant has the right to perform services for others; (b) the Consultant has the right to perform the services required by this Contract; and (c) the Consultant has the right to hire assistants as subcontractors, or to use employees to provide the services required by this Contract.

SECTION 26. Indemnification.

26.1 The Consultant shall indemnify and hold harmless the County and its agents and employees from all claims, liabilities, damages, losses, expenses and costs, including attorney's fees, arising out of or associated with or caused by the negligence, recklessness, or intentionally wrongful conduct of the Consultant or any persons employed or utilized by the Consultant, in the performance of this Contract. The Consultant shall, at its own expense, defend any and all such actions, suits, or proceedings which may be brought against the County in connection with the Consultant's performance under this Contract.

SECTION 27. Insurance.

27.1 The Consultant shall provide and maintain at all times during the term of this Contract, without cost or expense to the County, such commercial (occurrence form) or

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comprehensive general liability, workers compensation, professional liability, and other insurance policies as detailed in Exhibit "B". The policy limits required are to be considered minimum amounts.

27.2 The Consultant shall provide to the County a Certificate of Insurance for all policies of insurance and renewals thereof in a form acceptable to the County. Said certificates shall provide that the Nassau County Board of County Commissioners is an additional insured, and that the County shall be notified in writing of any reduction, cancellation or substantial change of policy or policies at least thirty (30) days prior to the effective date of said action with the exception of ten (10) days for non-payment. All insurance policies shall be issued by responsible companies who are acceptable to the County and licensed and authorized under the laws of the State of Florida.

SECTION 28. Dispute Resolution Process.

28.1 In the event of a dispute regarding the interpretation of the terms of this Contract, the County, in its sole discretion, may elect to use the dispute resolution process as set forth in this section.

28.2 In the event the County elects to use the dispute resolution process under this section, the County shall send a written communication to the Consultant pursuant to Section 35 hereinbelow. The written notification shall set forth the County's interpretation of the terms of this Contract.

28.3 The County shall then set a date and time for the parties to meet with the County Manager or designee. This meeting shall be set no more than twenty (20) days from the date that the written communication was sent to the Consultant. The Consultant may submit a written response to the County's written communication no less than five (5) days prior to the meeting with the County Manager or designee.

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28.4 If no satisfactory resolution as to the interpretation of the Contract terms reached at the meeting with the County Manager or designee, then the parties may elect to submit the dispute to mediation in accordance with mediation rules as established by the Florida Supreme Court. Mediators shall be chosen by the County and the cost of mediation shall be borne by the Consultant. The Consultant shall not stop work during the pendency of the dispute resolution or mediation process as set forth in this section.

SECTION 29. E-Verify.

29.1 The Consultant shall 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 the Consultant during the term of this Contract to work in Florida. Additionally, if the Consultant uses subcontractors to perform any portion of the work (under this Contract), the Consultant shall 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.

29.2 The Consultant shall maintain records of its participation and compliance with the provisions of the E-Verify program, including participation by its subcontractors as provided above, and to make such records available to the County or other authorized entity consistent with the terms of the Consultant's enrollment in the program. This includes maintaining a copy of proof of the Consultant's and subcontractors' enrollment in the E-Verify program. If the Consultant enters into a contract with a subcontractor, the subcontractor shall provide the Consultant with an affidavit stating that the subcontractor does not employ, contract with, or

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subcontract with an unauthorized alien. The Consultant shall maintain a copy of such affidavit for the duration of the Contract.

29.3 Compliance with the terms of the E-Verify program provision is made an express condition of this Contract and the County may treat a failure to comply as a material breach of the Contract. If the County terminates the Contract pursuant to Section 448.095(2)(c), Florida Statutes, the Consultant may not be awarded a public contract for at least one (1) year after the date on which the contract was terminated and the Consultant is liable for any additional costs incurred by the County as a result of the termination of this Contract.

SECTION 30. Public Records.

30.1 The County is a public agency subject to Chapter 119, Florida Statutes. **IF THE CONSULTANT HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONSULTANT'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 Consultant is providing services to the County, and pursuant to Section 119.0701, Florida Statutes, the Consultant shall:

a. Keep and maintain public records required by the County to perform the service.

b. Upon request from the County's custodian of public records, provide the County 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.

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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 Consultant does not transfer the records to the County.

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

30.2 A request to inspect or copy public records relating to the County's contract for materials shall be made directly to the County. If the County does not possess the requested records, the County shall immediately notify the Consultant of the request, and the Consultant shall provide the records to the public agency or allow the records to be inspected or copied within a reasonable time.

30.3 If the Consultant does not comply with the County's request for records, the County shall enforce the Contract provisions in accordance with the Contract.

30.4 If the Consultant fails to provide the public records to the County within a reasonable time, the Consultant may be subject to penalties under Section 119.10, Florida Statutes.

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

a. The Court determines that the Consultant unlawfully refused to comply with the public records request within a reasonable time; and

b. 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 Consultant has not complied with the request, to the County and to the Consultant.

30.6 A notice complies with Section 30.5 b. hereinabove, if it is sent to the County's custodian of public records and to the Consultant at the Consultant's address listed on its Contract with the County or to the Consultant's registered agent. Such notices shall be sent pursuant to Section 35 hereinbelow.

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

SECTION 31. Disclosure Of Litigation, Investigations, Arbitration or Administrative Decisions.

31.1 During the term of this Contract, or any extension thereto, the Consultant shall have the continued duty to disclose to the County Attorney, in writing, upon occurrence, all civil or criminal litigation, arbitration, mediation, or administrative proceeding involving the Consultant. If the existence of the proceeding causes the County concerns that the Consultant's ability or willingness to perform this contract is jeopardized, the Consultant may be required to provide the County with reasonable written assurance to demonstrate the Consultant can perform the terms and conditions of the Contract.

SECTION 32. Public Entity Crimes.

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32.1 In accordance with Section 287.133, Florida Statutes, the Consultant certifies that it, its affiliates, suppliers, subcontractors and consultants who will perform hereunder, have not been placed on the convicted vendor list maintained by the State of Florida Department of Management Services within the thirty-six (36) months immediately preceding the date of this Contract.

SECTION 33. Anti-Discrimination.

33.1 The Consultant agrees that it will not discriminate in employment, employee development, or employee advancement because of religious or political opinions or affiliations, race, color, national origin, sex, age, physical handicap, or other factors, except where such factor is a bonified occupational qualification or is required by State and/or Federal Law.

SECTION 34. Advertising.

34.1 The Consultant shall not publicly disseminate any information concerning this Contract without prior written approval from the County, including but not limited to, mentioning the Contract in a press release or other promotional material, identifying the County as a reference, or otherwise linking the Consultant's name and either description of this Contract or the name of the County in any material published, either in print or electronically, to any entity that is not a party this Contract, except potential or actual authorized distributors, dealers, resellers, or service representative.

SECTION 35. Notices.

35.1 All notices, demands, requests for approvals or other communications given by the parties to another in connection with this Contract shall be in writing, and shall be sent by registered or certified mail, postage prepaid, return receipt requested, or overnight delivery service (such as federal express), or courier service or by hand delivery to the office of each party indicated below:

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County: Nassau County

Attn:

96135 Nassau Place

Yulee, Florida 32097

Consultant: [Consultant Address]

Attn: [Consultant Contact Person]

[Consultant Address]

SECTION 36. Attorney's Fees.

36.1 Notwithstanding the provisions of Section 30 hereinabove, in the event of any legal action to enforce the terms of this Contract each party shall bear its own attorney's fees and costs.

SECTION 37. Authority to Bind.

37.1 The Consultant represents and warrants that the Consultant's undersigned representative if executing this Contract of behalf of a partnership, corporation or agency has the authority to bind the Company to the terms of this Contract.

SECTION 38. Conflicting Terms, Representations and No Waiver of Covenants or Conditions.

38.1 In the event of any conflict between the terms of this Contract and the terms of any exhibits, the terms of this Contract shall prevail.

38.2 All representations, indemnifications, warranties and guaranties made by the Consultant in this Contract, as well as all continuing obligations indicated in this Contract, shall survive final payment and termination or completion of this Contract.

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38.3 The failure of either party to insist on strict performance of any covenant or condition herein, or to exercise any option herein contained, shall not be construed as a waiver of such covenant, condition, or option in any other instance.

38.4 The Consultant warrants that any goods provided by the Consultant under this Contract shall be merchantable. All goods provided shall be of good quality within the description given by the County, shall be fit for their ordinary purpose, shall be adequately contained and packaged with the description given by the County, shall conform to the agreed upon specifications, and shall conform to the affirmations of facts made by the Consultant or on the container or label.

SECTION 39. Construction of Contract.

39.1 The parties hereby acknowledge that they have fully reviewed this Contract and any exhibits and have had the opportunity to consult with legal counsel of their choice, and that this Contract shall not be construed against any party as if they were the drafter of this Contract.

SECTION 40. Headings.

40.1 The section headings and captions of this Contract are for convenience and reference of the parties and in no way define, limit or describe the scope or intent of this Contract or any part thereof.

SECTION 41. Entire Agreement and Execution.

41.1 This Contract, together with any exhibits, constitutes the entire Contract between the County and the Consultant and supersedes all prior written or oral understandings.

41.2 This Contract may be executed in any number of counterparts; each executed counterpart hereof shall be deemed an original; and all such counterparts, when taken together, shall be deemed to constitute one and the same instrument.

SECTION 42. Change of Laws.

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42.1 If there is a change in any state or federal law, regulation or rule or interpretation thereof, which affects this Contract or the activities of either party under this Contract, and either party reasonably believes in good faith that the change will have a substantial adverse effect on that party's rights or obligations under this Contract, then that party may, upon written notice, require the other party to enter into good faith negotiations to renegotiate the terms of this Contract. If the parties are unable to reach an agreement concerning the modification of this Contract within fifteen (15) days after the date of the notice seeking renegotiation, then either party may terminate this Contract by written notice to the other party. In such event, Consultant shall be paid its compensation for services performed prior to the termination date.

[The remainder of this page left intentionally blank.]

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IN WITNESS WHEREOF, the parties have executed this Contract which shall be deemed an original on the day and year last written below

BOARD OF COUNTY COMMISSIONERS
NASSAU COUNTY, FLORIDA

_____
By: _____
Its: _____
Date: _____

Attest as to authenticity of the
Chair's signature:

_____
JOHN A. CRAWFORD
Its: Ex-Officio Clerk

Approved as to form and legality by the
Nassau County Attorney

_____
DENISE C. MAY

COMPANY'S NAME

_____

By: _____

Its: _____

Date: _____

Initials_____ Initials_____

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APPENDIX A

GEOTECHNICAL REPORT

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UNIVERSAL
ENGINEERING SCIENCES

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

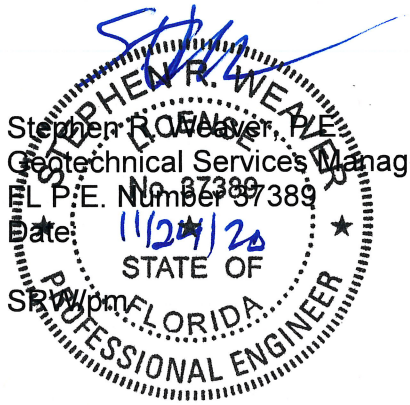
Dear Mr. Waltermyer:

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, 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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USGS Site Location Map
USDA-SCS Soil Survey Map

APPENDIX B

Soil Survey Sheet
Soil Profile Sheet
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Field Exploration Procedures

APPENDIX C

Summary of Classification and Index Testing
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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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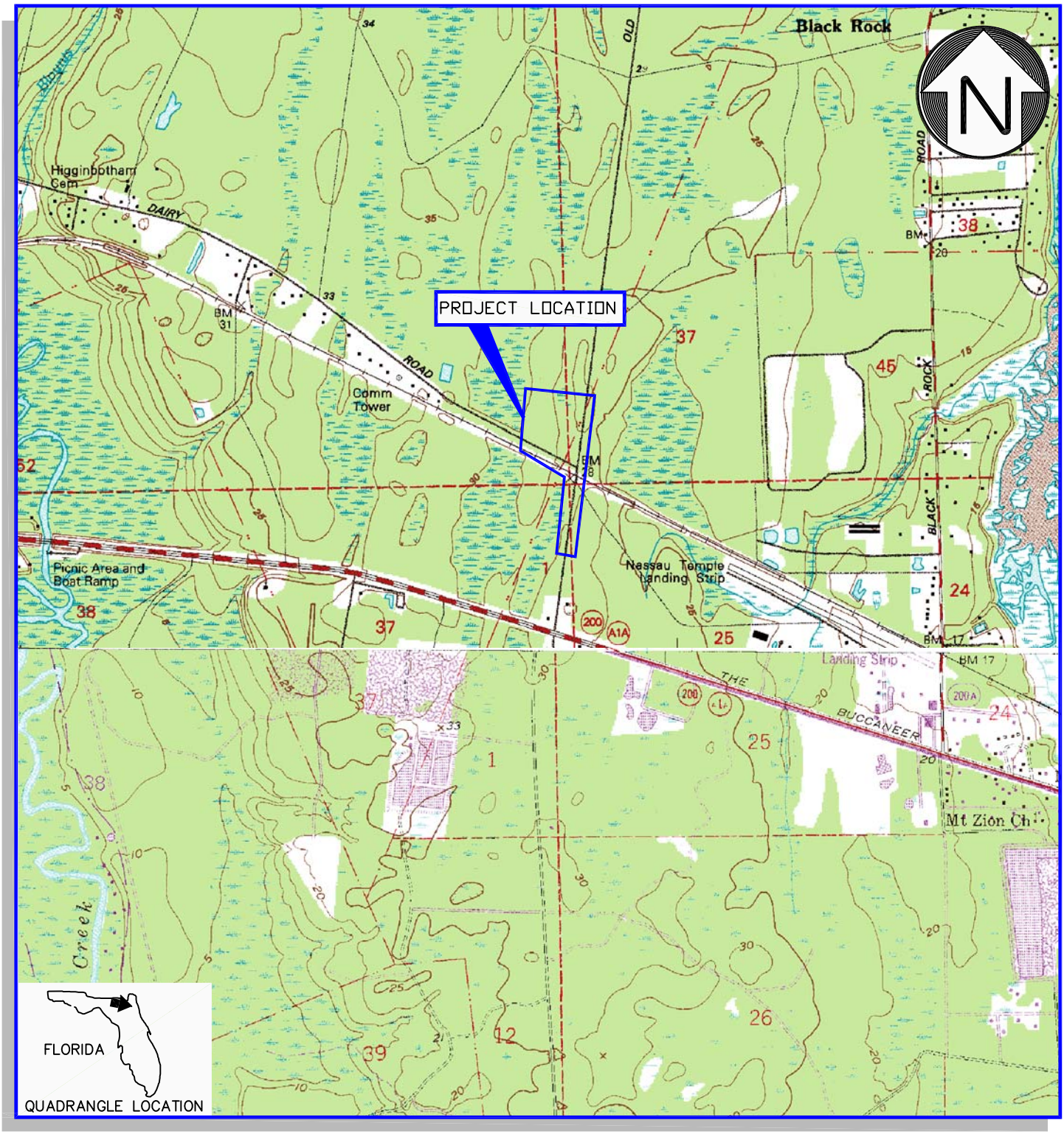

REFERENCE: TOPOGRAPHIC MAP
ST. MARY'S QUADRANGLE; FLORIDA
DATED: 1993
HEDGES QUADRANGLE; FLORIDA
DATED: 1992
U.S. GEOLOGICAL SURVEY

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

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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

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.

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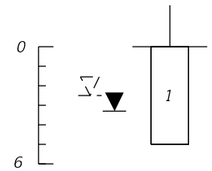

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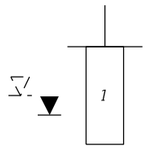

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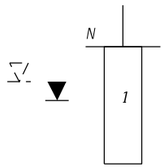

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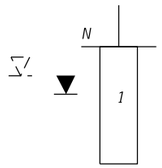

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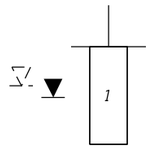

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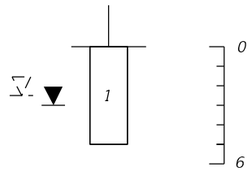

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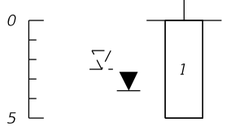

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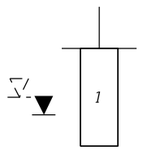

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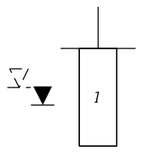

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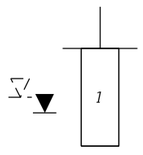

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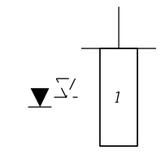
DATE 11/17/2017
DRILLER S. TORRES



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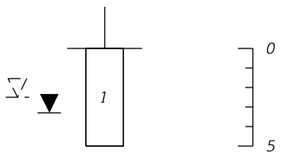

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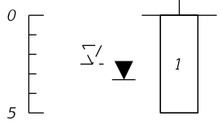
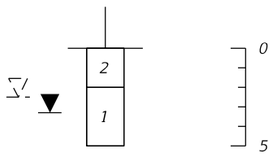
DATE 11/17/2017
DRILLER S. TORRES



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

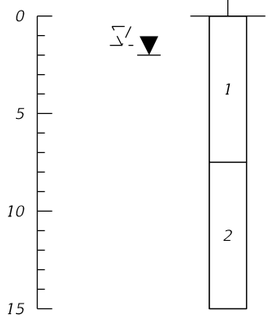
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
PAGES DAIRY CHESTER ROAD	NASSAU	N/A

ROADWAY SOIL PROFILES

SHEET NO.

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1

STA. 189+00 CHESTER RD BL SURVEY
OFF. 220' LT
DATE 11/17/2017
DRILLER B. TRUITT



STA. 190+00 CHESTER RD BL SURVEY
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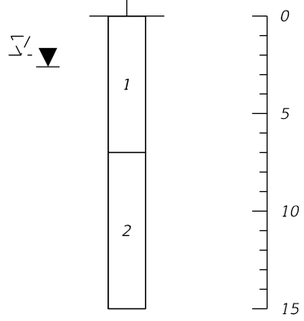
DATE 11/10/2017
DRILLER B. TRUITT



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.
P.E. LICENSE NUMBER 37389
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5561 FLORIDA MINING BLVD. S.
JACKSONVILLE, FLORIDA 32257
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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

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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
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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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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• 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, 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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2.2 REVIEW OF AVAILABLE DATA 2
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2.2.2 USDA SCS Soil Survey 2
2.2.3 Potentiometric Data 3
2.2.4 Florida Geology 3
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3.0 LABORATORY INVESTIGATION 4
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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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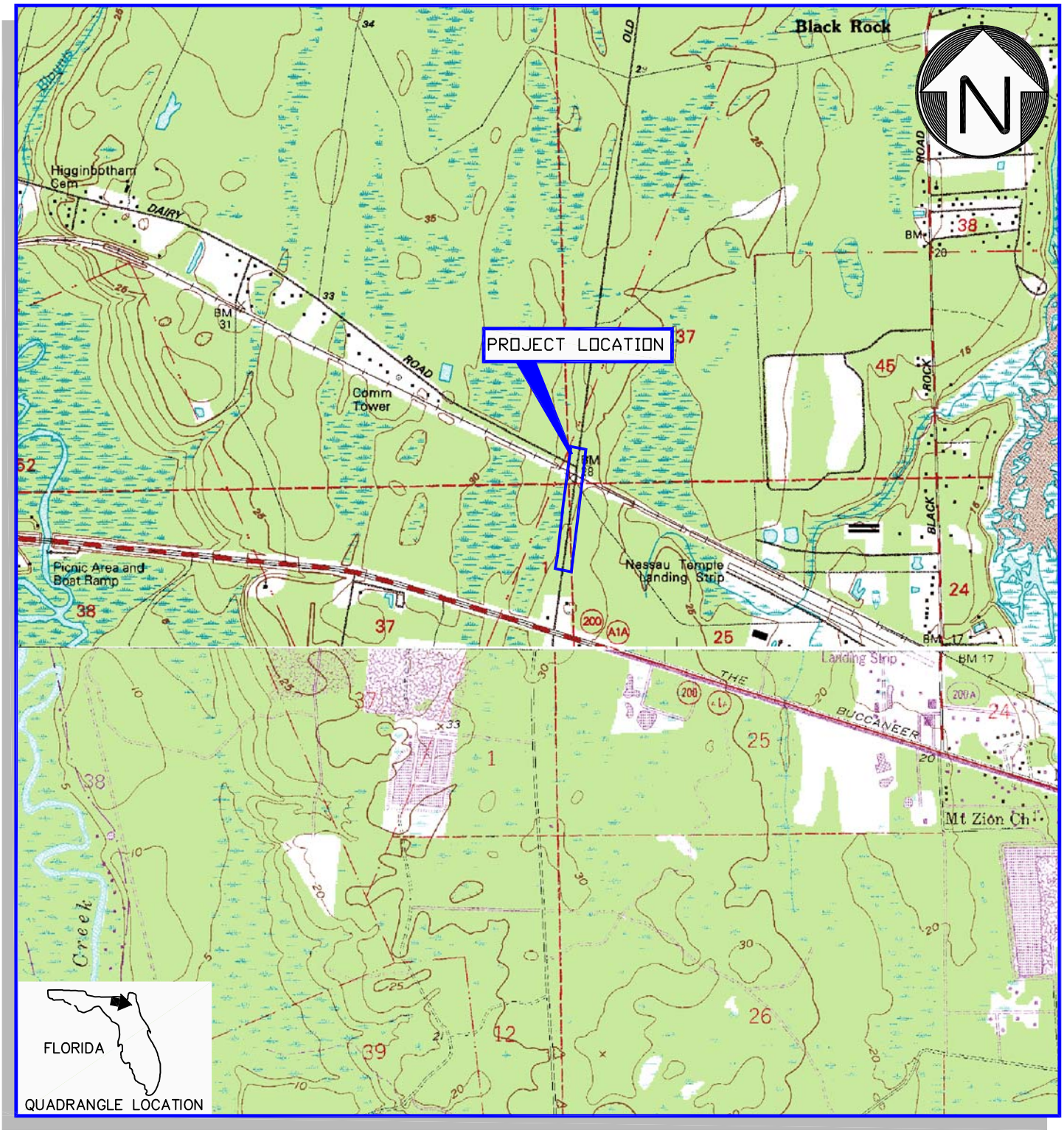

REFERENCE: TOPOGRAPHIC MAP
ST. MARY'S QUADRANGLE; FLORIDA
DATED: 1993
HEDGES QUADRANGLE; FLORIDA
DATED: 1992
U.S. GEOLOGICAL SURVEY

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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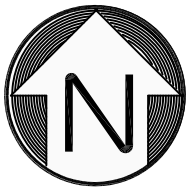

Map Unit Legend

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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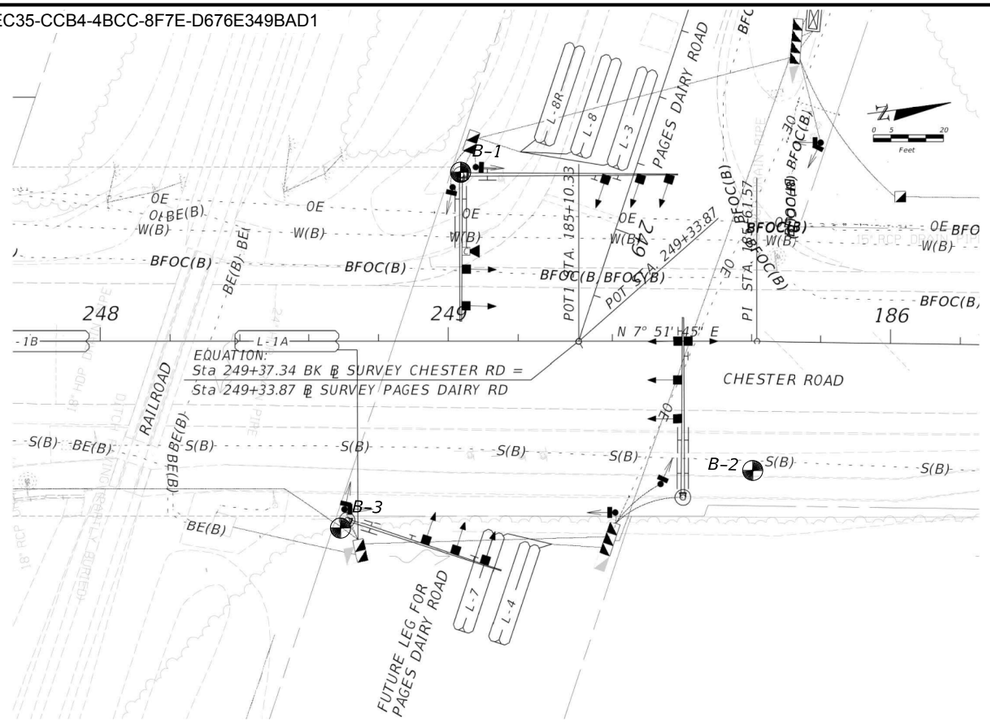


WITH RELATIVE DENSITY AND CONSISTENCY OF SOIL USING AUTOMATIC HAMMER

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

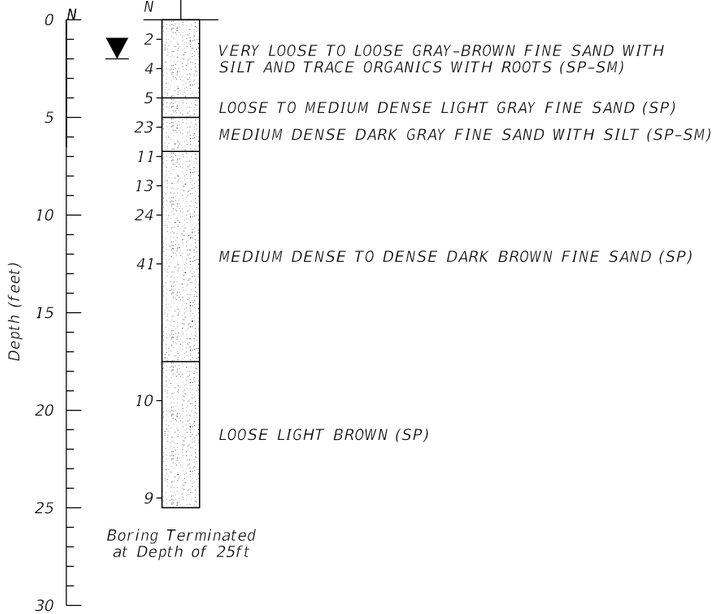
NOTES

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

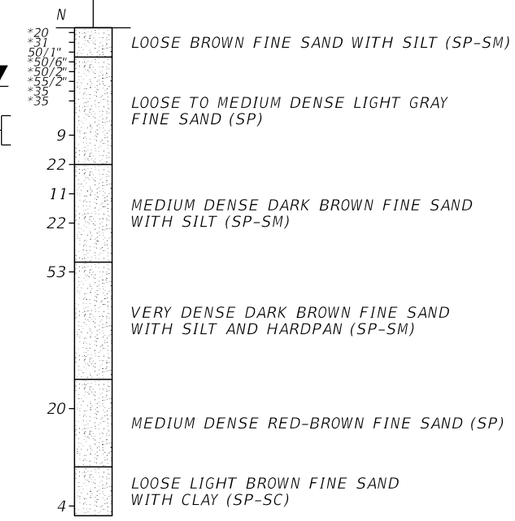
- Sand
- SPT Boring Location
- N N-Value
- Water Level at Time of Drilling
- -200 Percent Passing No. 200 US Standard Sieve
- MC Natural Moisture Content
- LL Liquid Limit
- * Static Cone Penetrometer Readings
- WOH Weight of Hammer

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

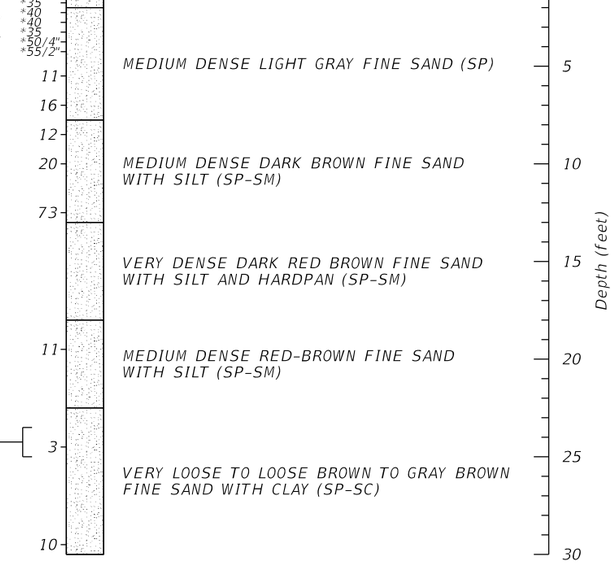
BOR # B-2
STA. 185+40.27 PAIGES DAIRY & CHESTER RD
OFF. 44.6' RT
DATE 10/23/2020
DRILLER B. TRUITT
HAMMER AUTO



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

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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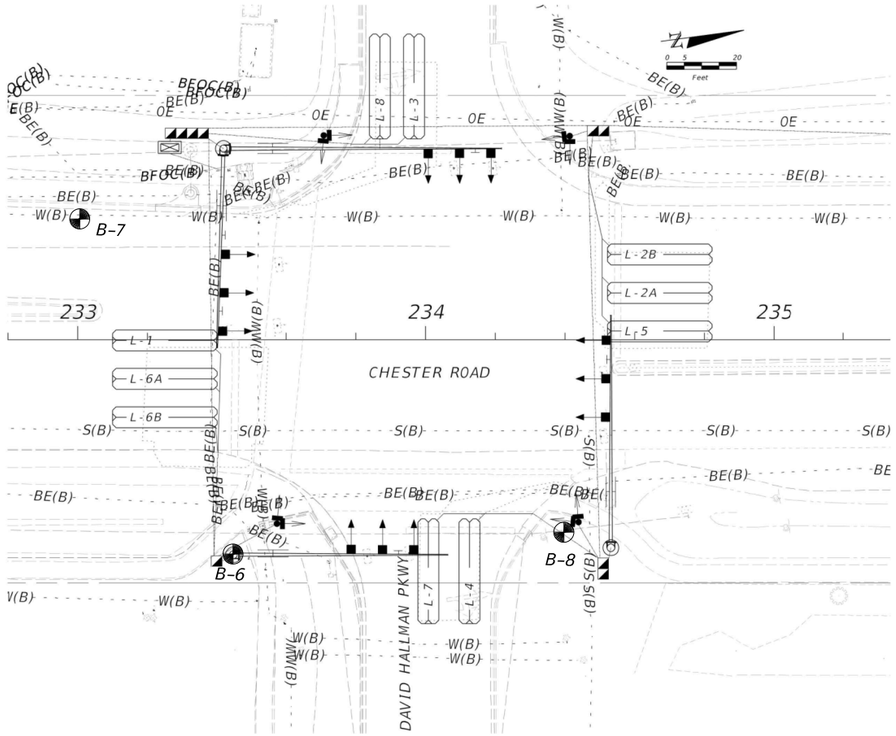


WITH RELATIVE DENSITY AND CONSISTENCY OF SOIL USING AUTOMATIC HAMMER

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

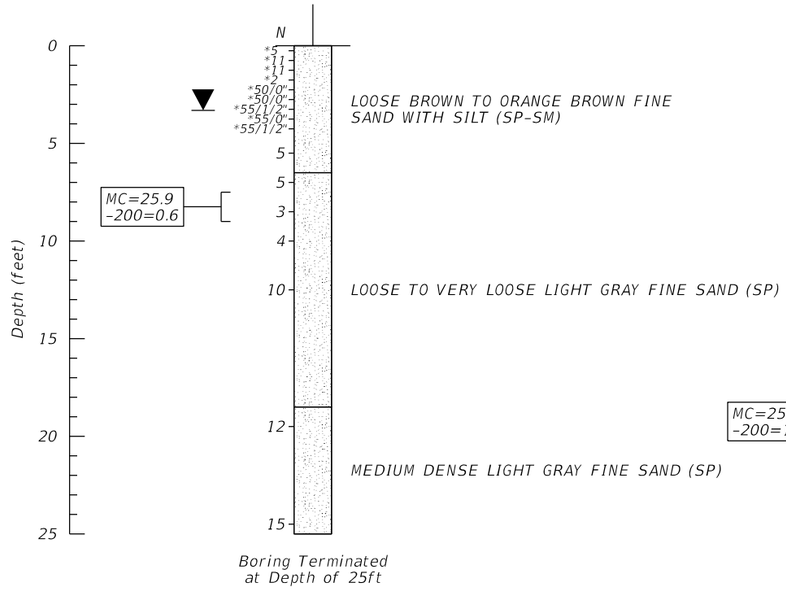
NOTES

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

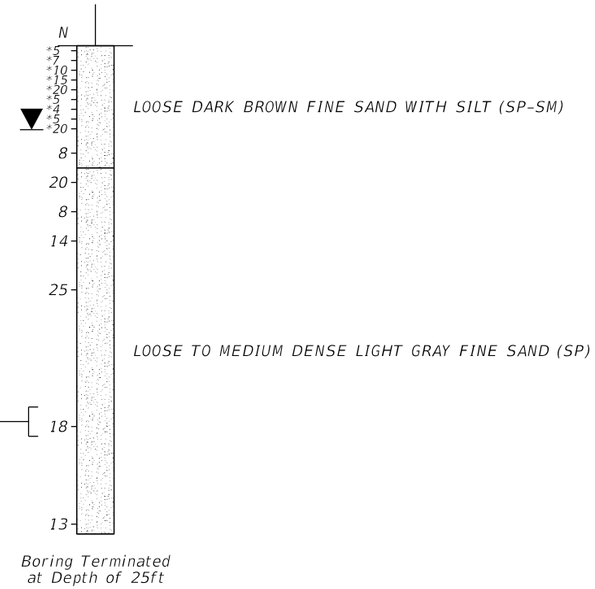
- Sand
- SPT Boring Location
- N N-Value
- Water Level at Time of Drilling
- -200 Percent Passing No. 200 US Standard Sieve
- MC Natural Moisture Content
- LL Liquid Limit
- * Static Cone Penetrometer Readings
- WOH Weight of Hammer

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



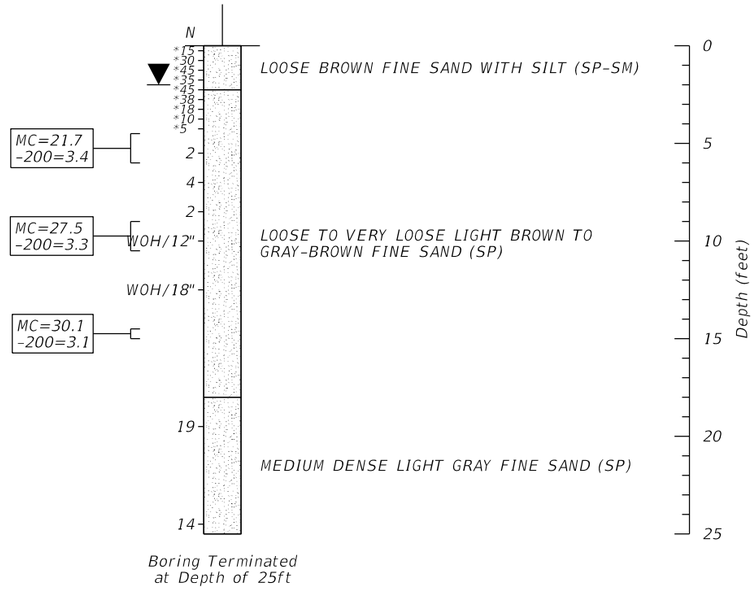
Boring Terminated at Depth of 25ft

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.

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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

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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
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.

UNIVERSAL
ENGINEERING SCIENCES

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APPENDIX B

NASSAU COUNTY
ROAD CLOSURE POLICY

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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

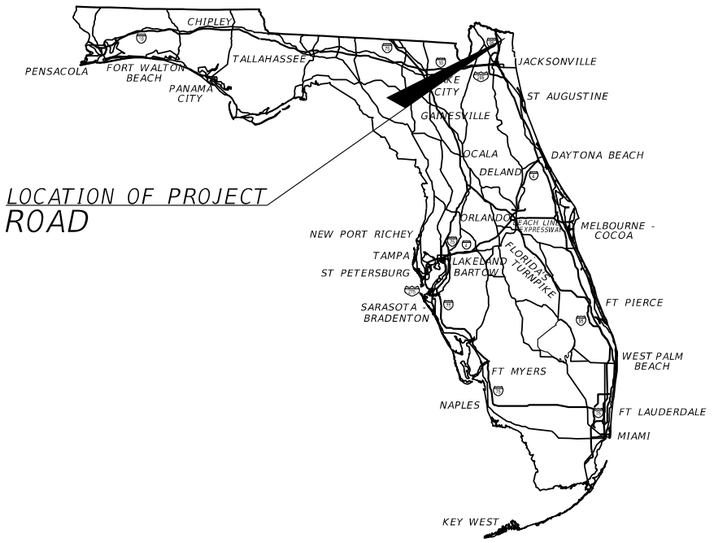
A DETAILED INDEX APPEARS ON THE KEY SHEET OF EACH COMPONENT

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:
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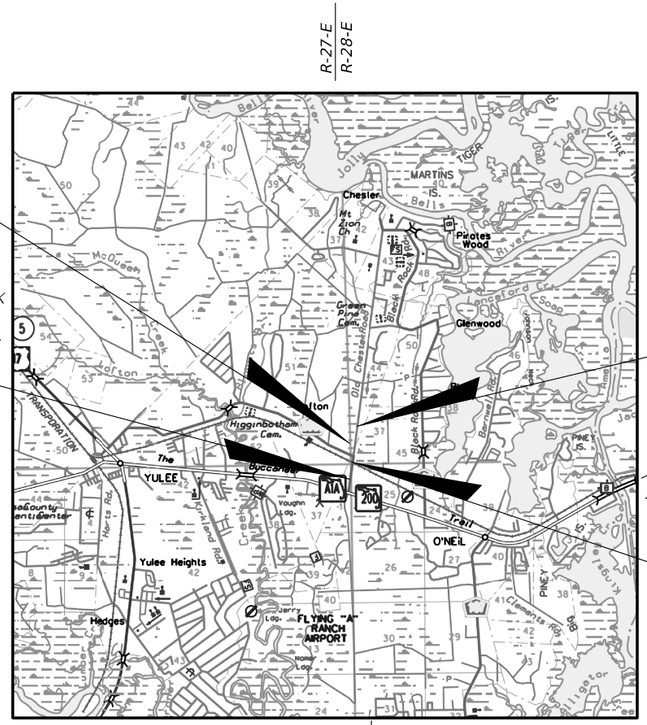
STA. 185+10.33 AHD.



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

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

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:

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

KEY SHEET REVISIONS	
DATE	DESCRIPTION

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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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 PAY ITEMS

SHEET NO. 2

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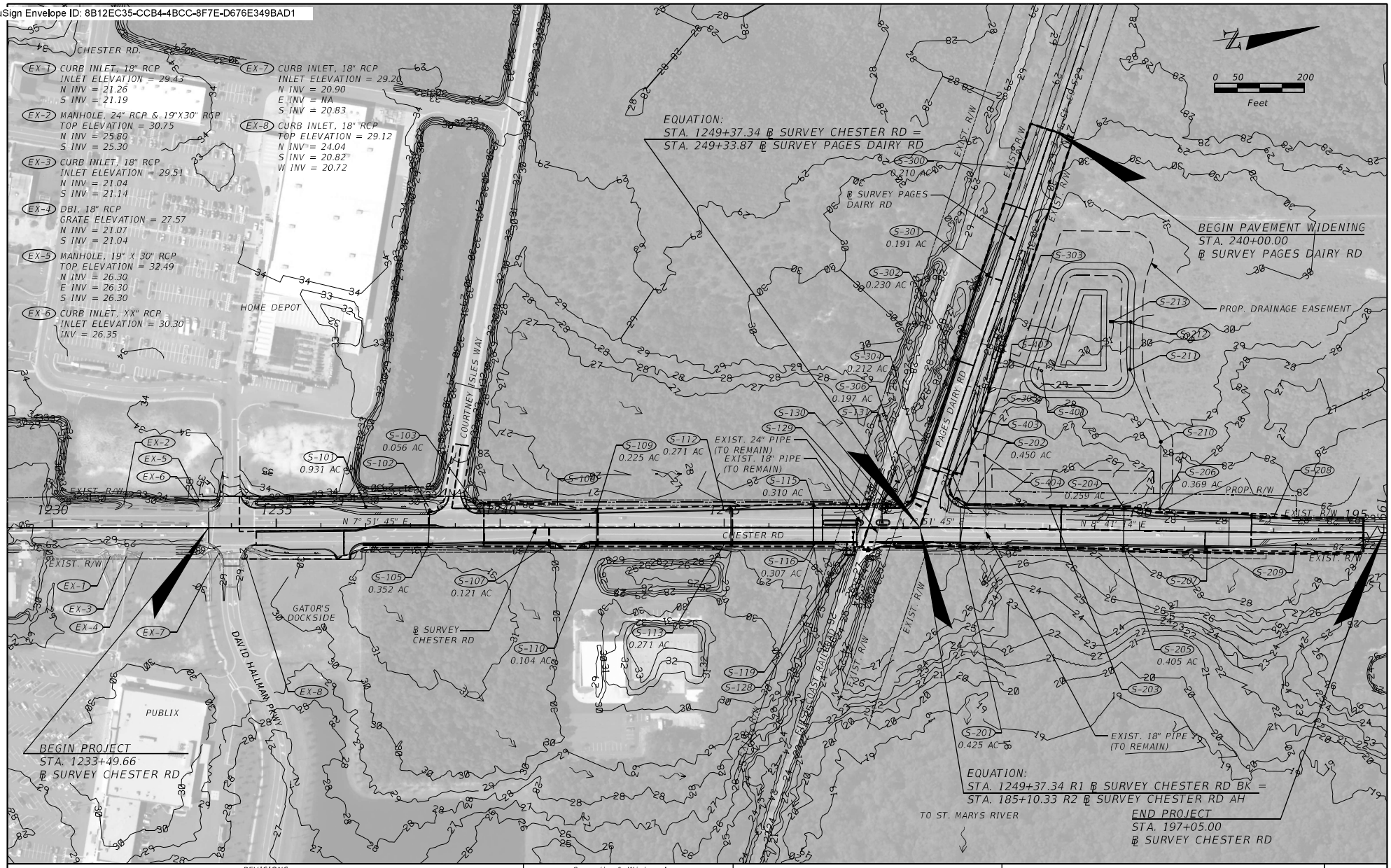

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REVISIONS			
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Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

DRAINAGE MAP
PROPOSED STORM SYSTEM

SHEET NO. 3

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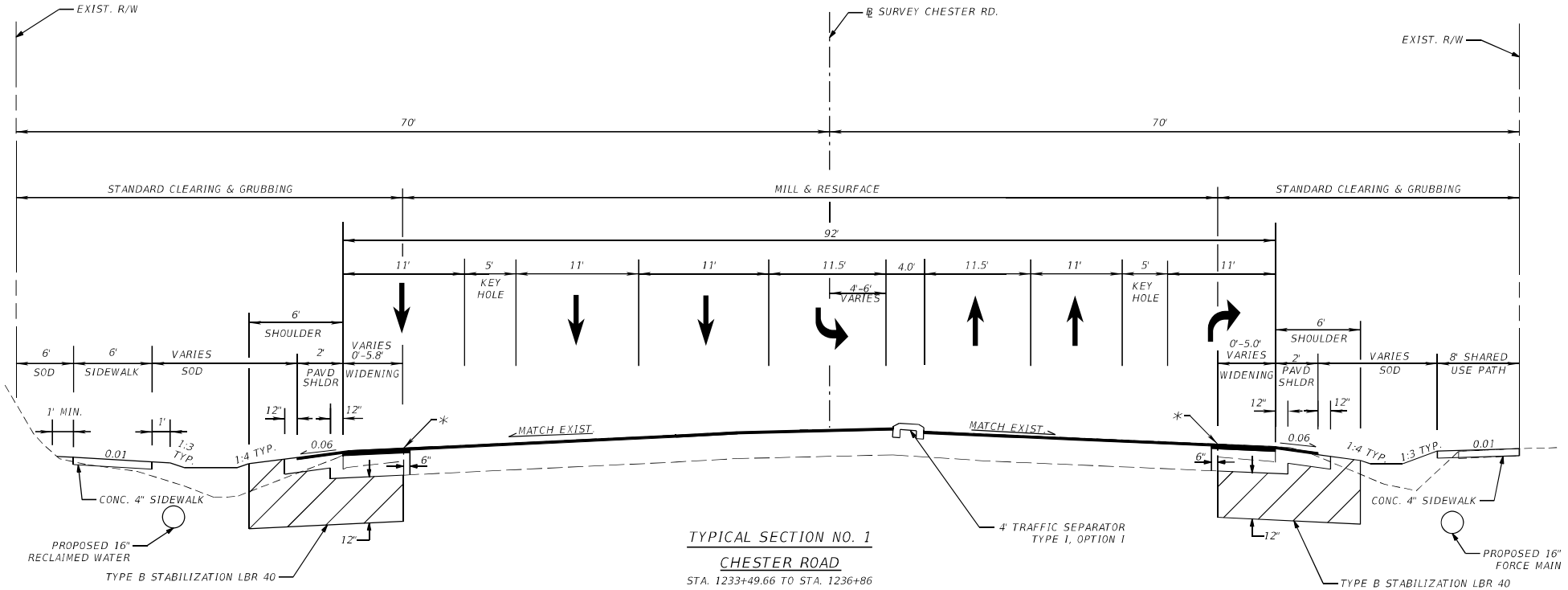

TYPICAL SECTION NO. 1

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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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TYPICAL SECTION

SHEET NO. 4

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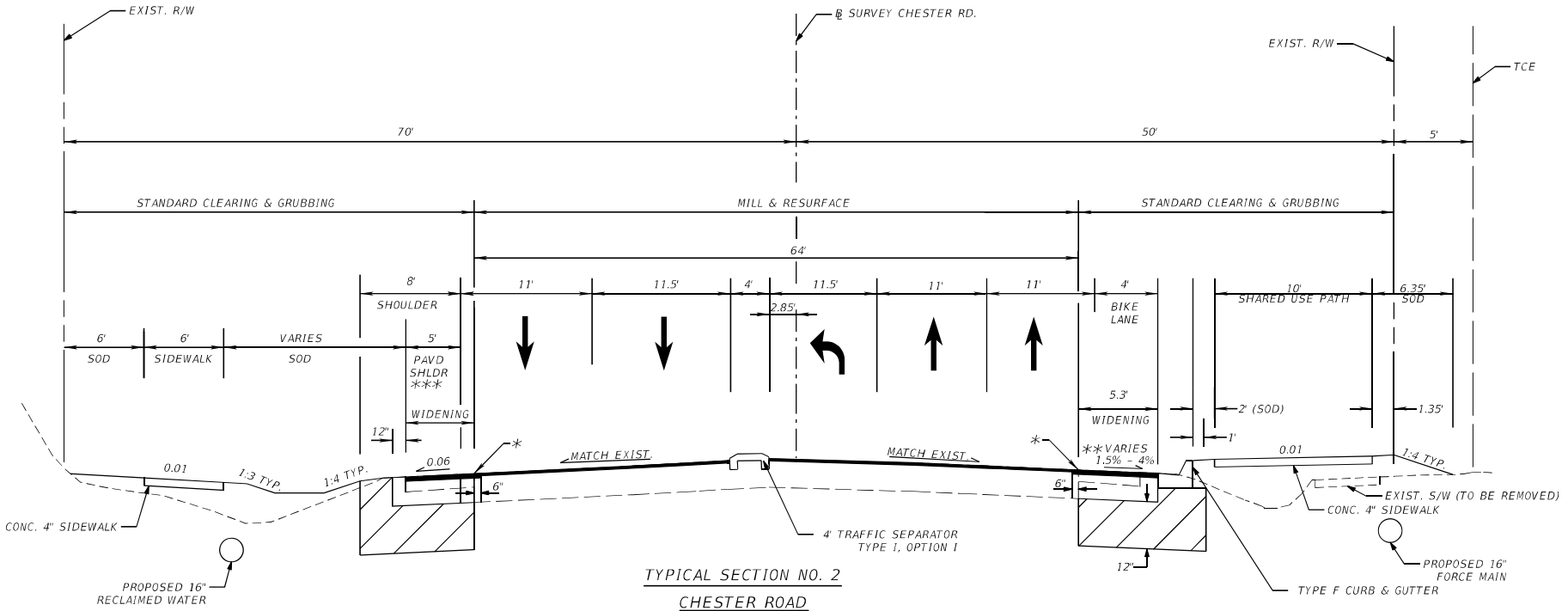

TYPICAL SECTION NO. 2

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

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. 5

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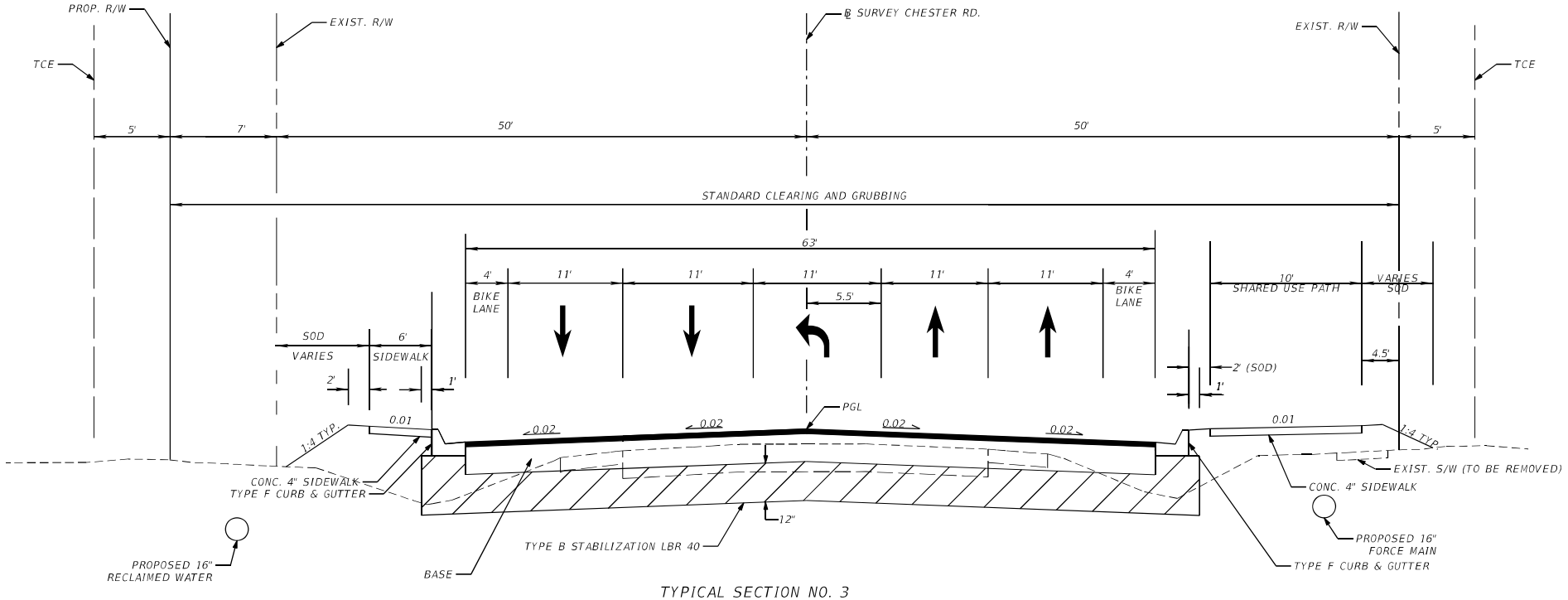

TYPICAL SECTION NO. 3

CHESTER ROAD

STA. 1238+40.00 TO STA. 1241+80.00

POSTED SPEED = 35 MPH
DESIGN SPEED = 45 MPH

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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TYPICAL SECTION

SHEET NO. 6

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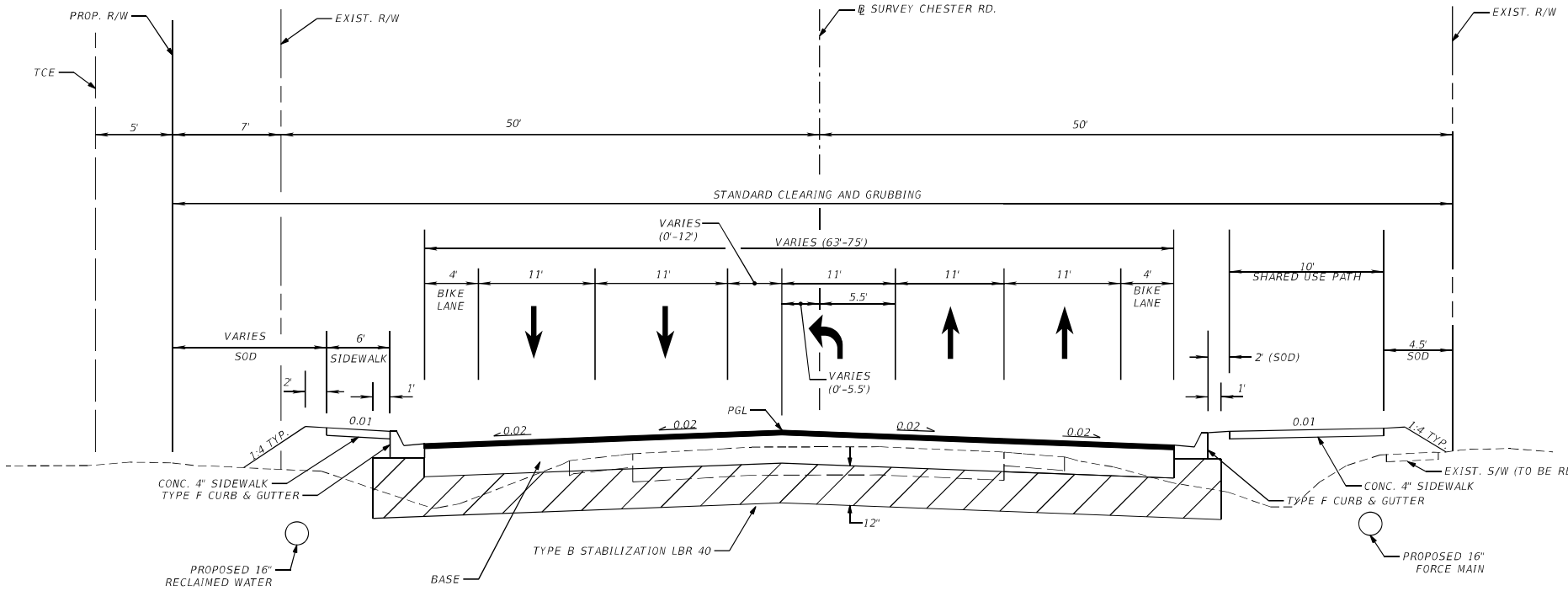

TYPICAL SECTION NO. 4

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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REVISIONS			
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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TYPICAL SECTION

SHEET NO. 7

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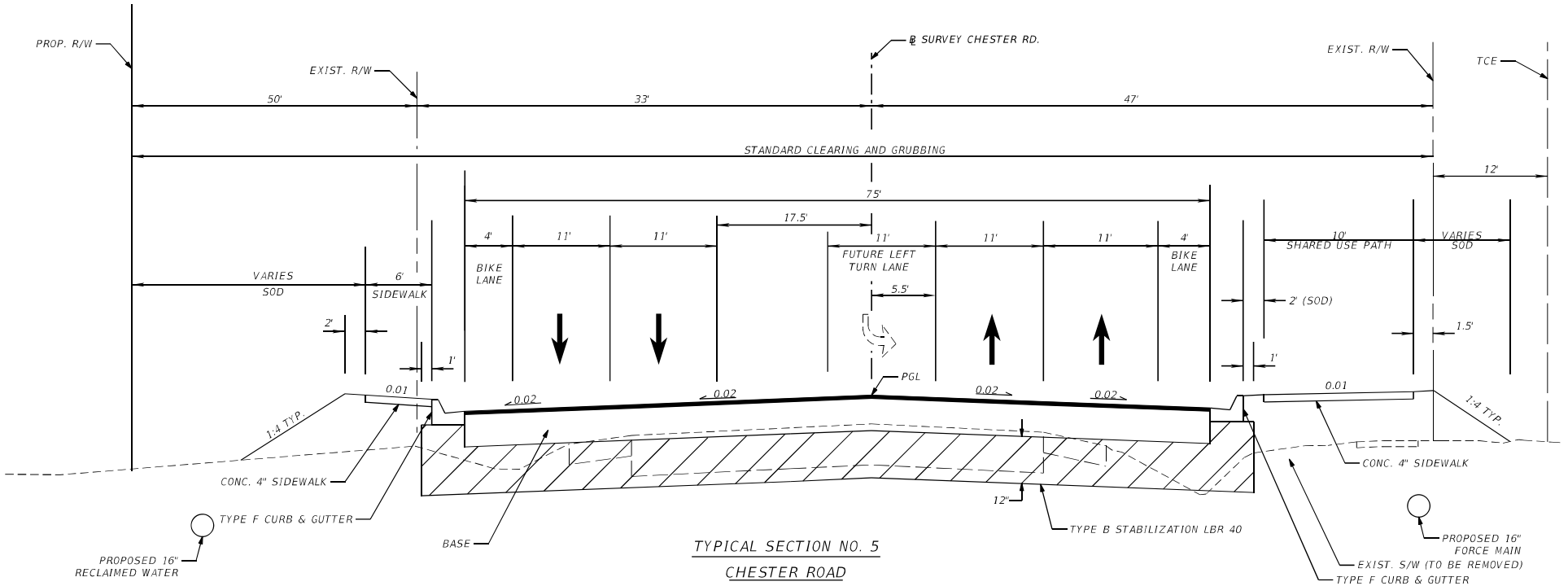

TYPICAL SECTION NO. 5

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

Connelly & Wicker Inc.
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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	

TYPICAL SECTION

SHEET NO. 8

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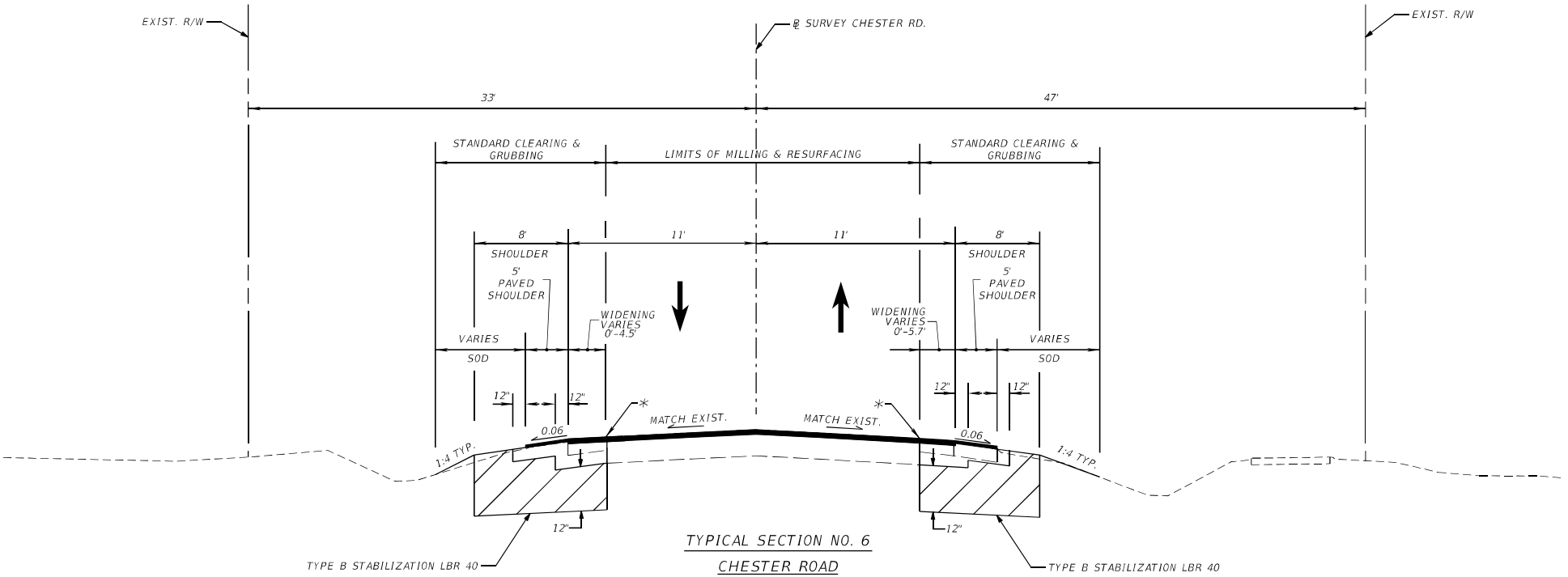

TYPICAL SECTION NO. 6

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

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TYPICAL SECTION

SHEET NO. 9

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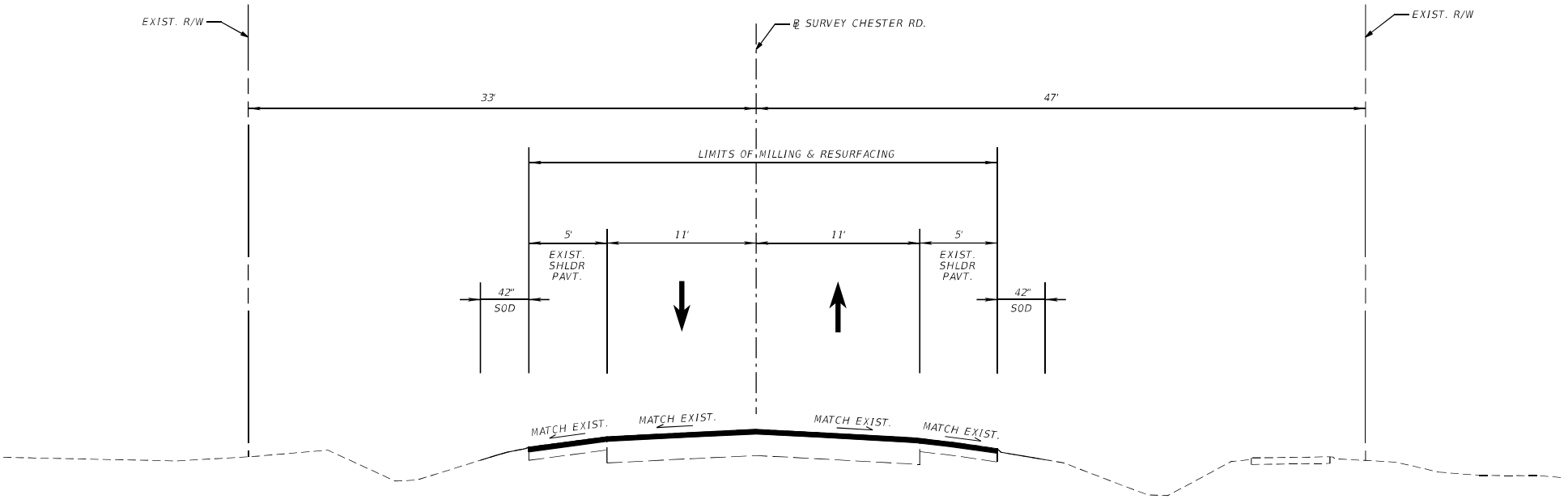

TYPICAL SECTION NO. 7

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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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TYPICAL SECTION

SHEET NO. 10

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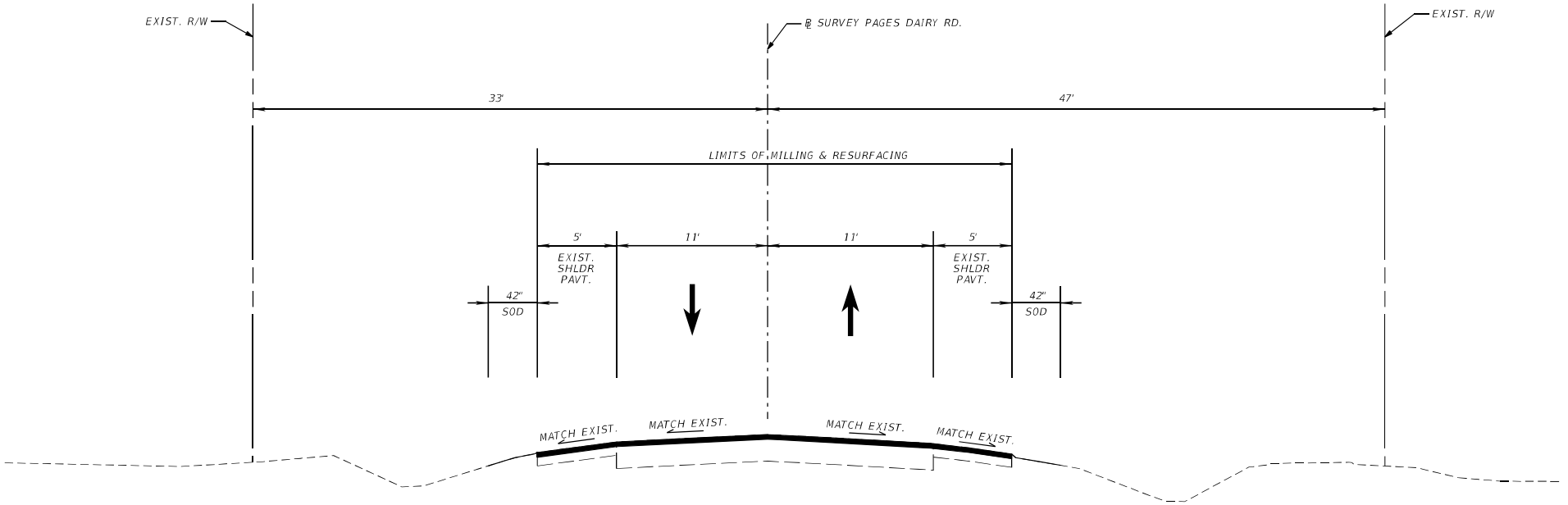

TYPICAL SECTION NO. 8

PAGES DAIRY ROAD

STA. 235+00 TO STA. 238+70

RESURFACING

TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1 1/2") (PG 76-22)

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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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 SECTION

SHEET NO. 11

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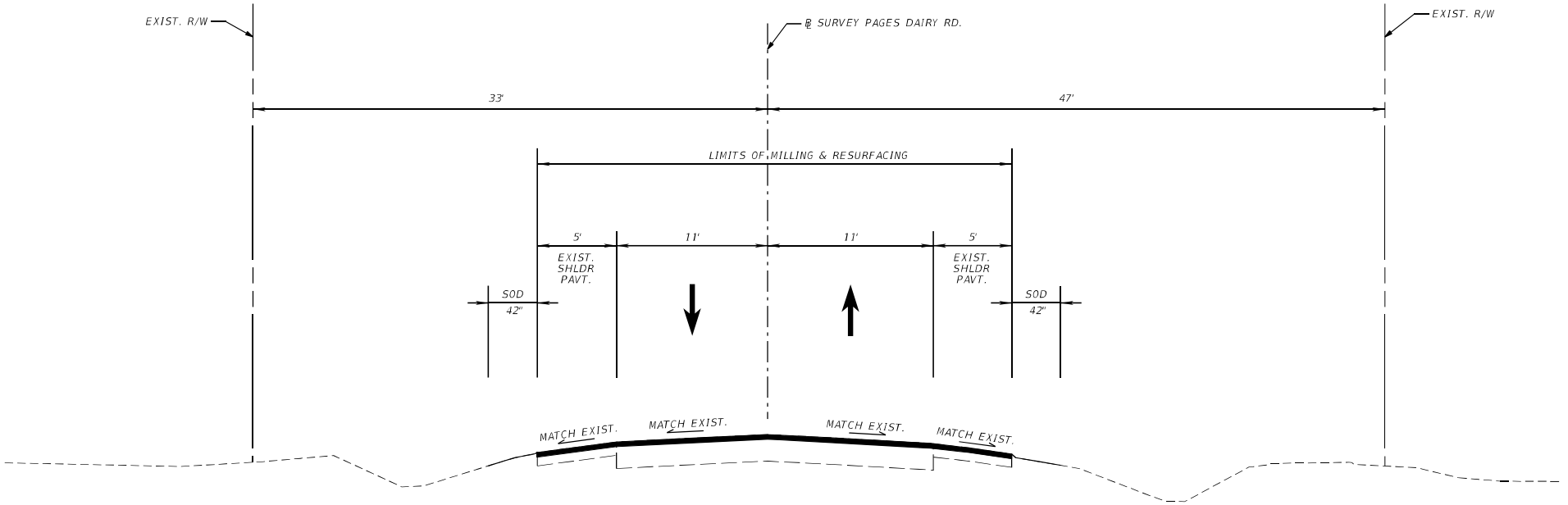

TYPICAL SECTION NO. 9

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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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TYPICAL SECTION

SHEET NO. 12

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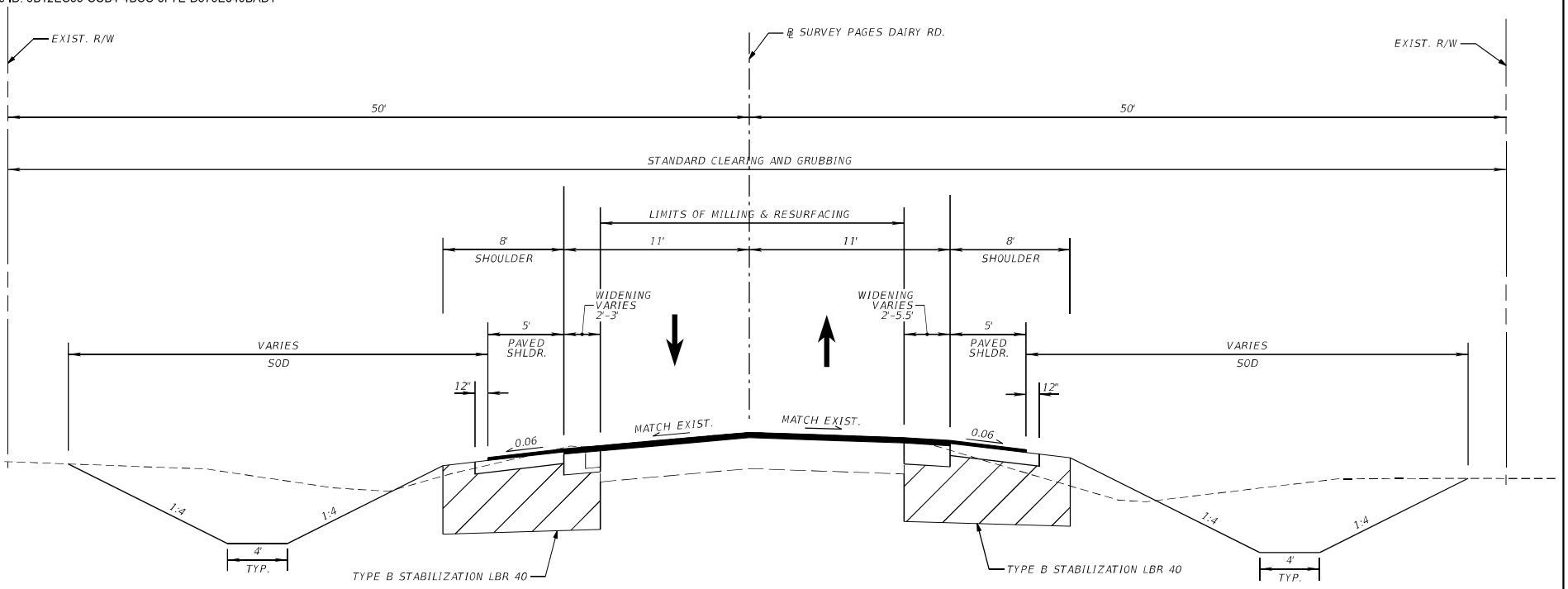

TYPICAL SECTION NO. 10

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

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TYPICAL SECTION

SHEET NO. 13

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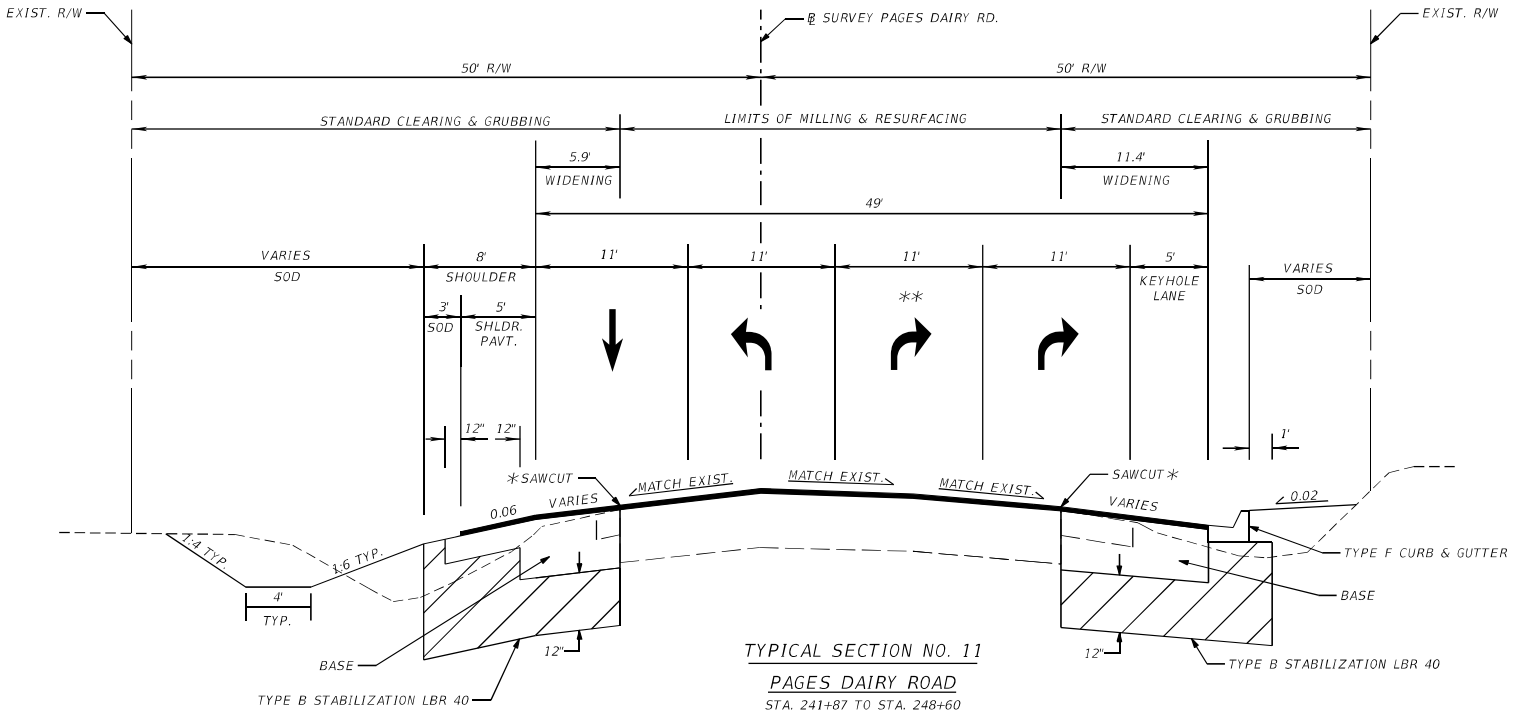

TYPICAL SECTION NO. 11

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

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TYPICAL SECTION

SHEET NO. 14

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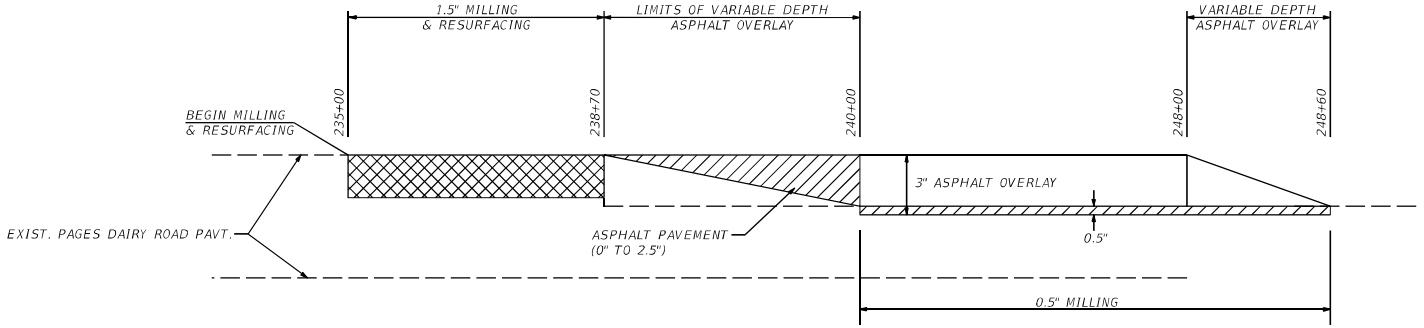
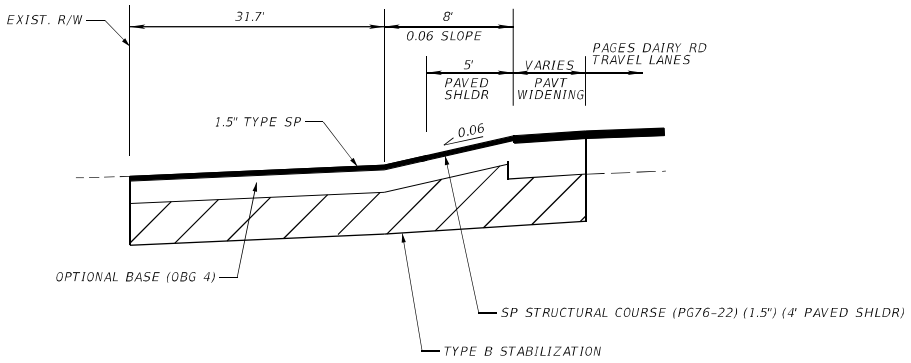


PAGES DAIRY ROAD
LONGITUDINAL PAVEMENT TRANSITION DETAIL



ASPHALT DRIVEWAY DETAIL
PAGES DAIRY ROAD STA. 241+60.00

N.T.S.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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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: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1

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																				

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	

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 17

Danny 12/14/2023 8:15:36 AM J:\Transportation\Projects\17-01-0202_ChesterInt\drainage\SUMDRD01.DGN

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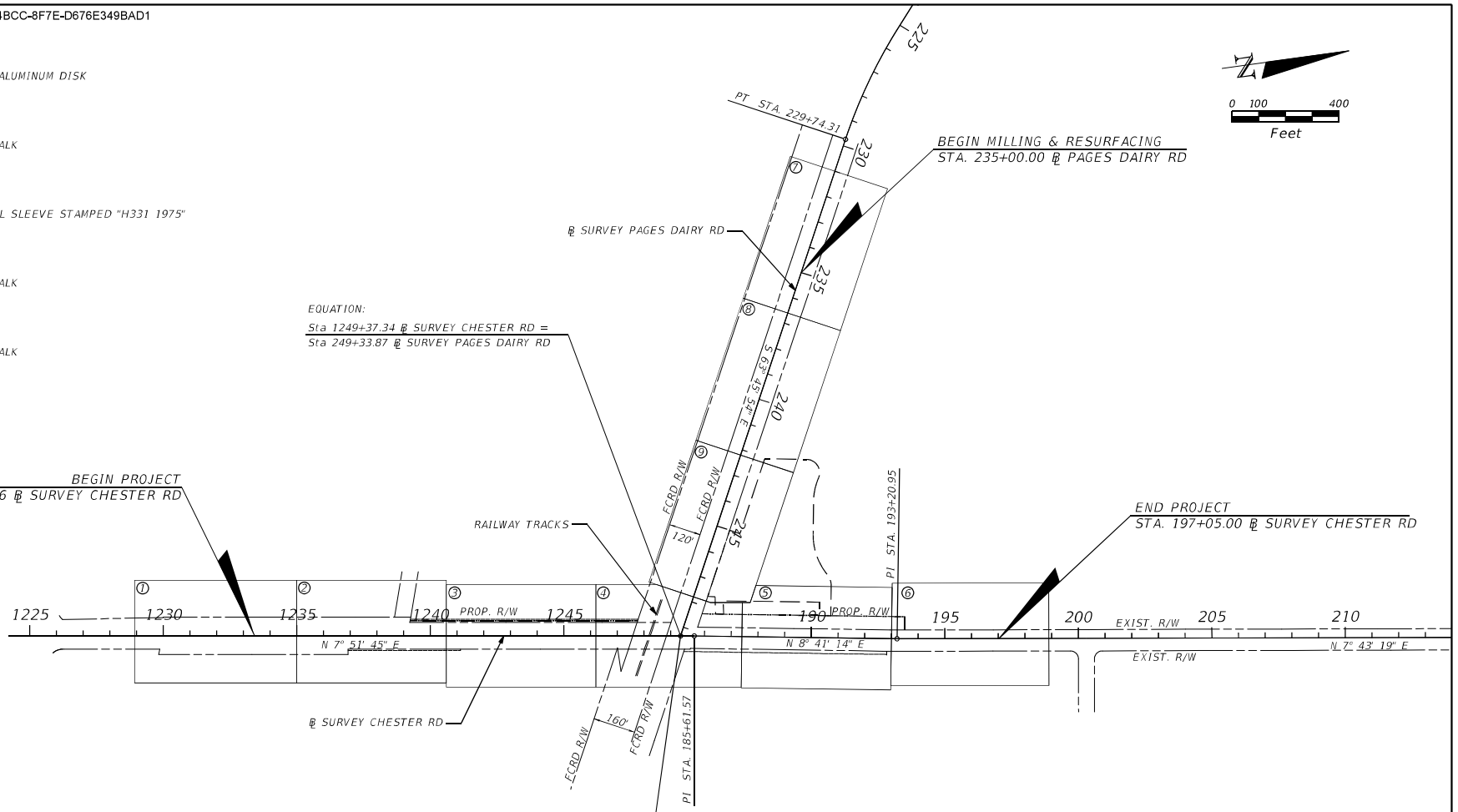
BM1
STA. 1233+25.03
ELEV. 29.476
CONCRETE MONUMENT W/ ALUMINUM DISK

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

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Jacksonville, FL 32246
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FL P.E. No. 73903

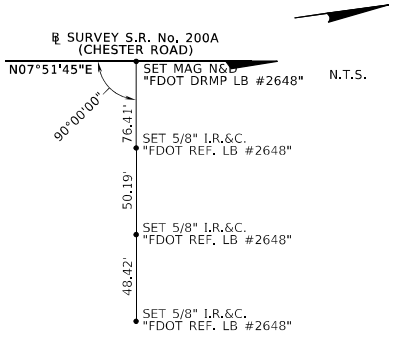
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

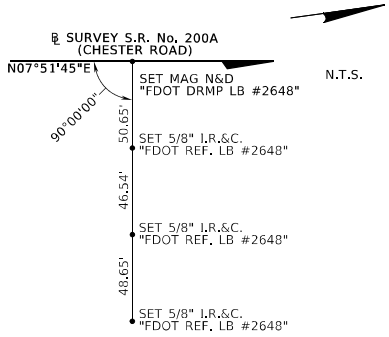
PROJECT LAYOUT

SHEET NO. 18

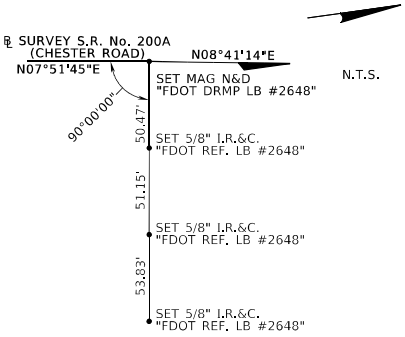
DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1



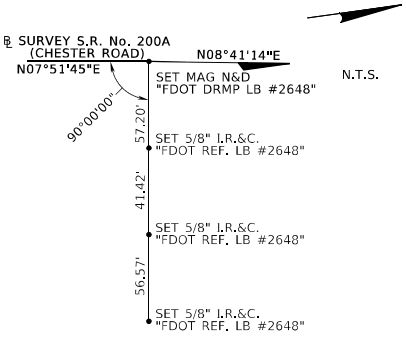
STA. 1230+00.00
℄ SURVEY S.R. No. 200A
(CHESTER ROAD)



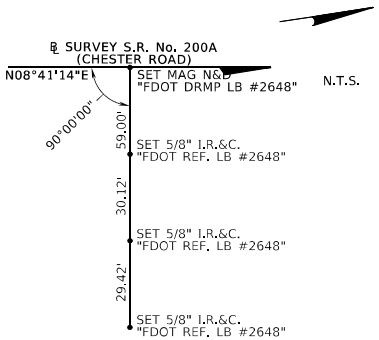
STA. 1240+00.00
℄ SURVEY S.R. No. 200A
(CHESTER ROAD)



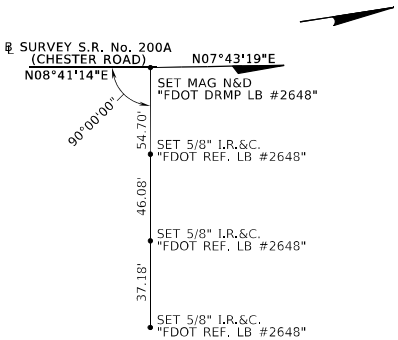
P.I. STA. 1249+37.34/
P.O.T. STA. 185+10.33
℄ SURVEY S.R. No. 200A
(CHESTER ROAD)



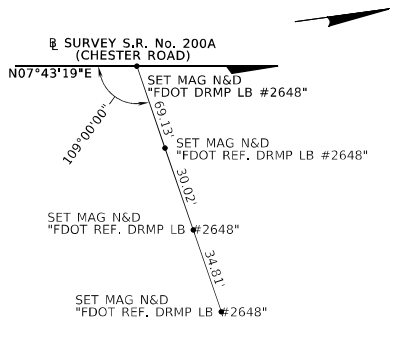
P.I. STA. 185+61.56
℄ SURVEY S.R. No. 200A
(CHESTER ROAD)



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)

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	

PROJECT CONTROL (01)

SHEET NO. 19

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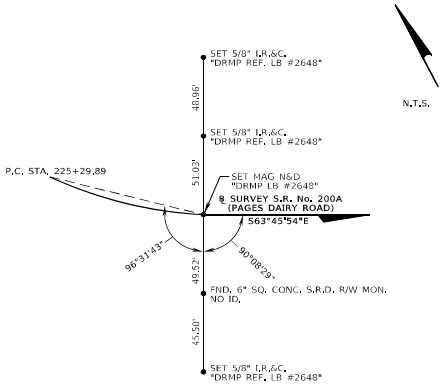
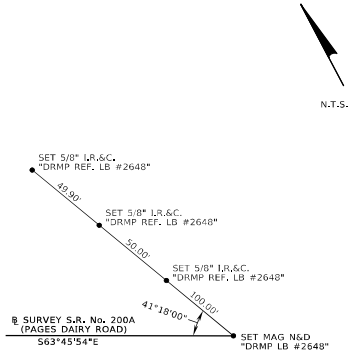


P.T. STA. 229+74.31
℄ SURVEY S.R. No. 200A
(PAGES DAIRY ROAD)



P.I. STA. 249+33.87
℄ SURVEY S.R. No. 200A
(PAGES DAIRY ROAD)

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	

PROJECT CONTROL (02)

SHEET NO. 20

Danny 12/14/2023 8:15:37 AM J:\Transportation\Projects\17-01-0202_ChesterInt\roadway\PLAYRD02.DGN

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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

14. 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			
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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	

GENERAL NOTES (1)

SHEET NO. 21

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1

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			
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 (2)

SHEET NO. 22

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Development Review General Notes:

1. Engineering Plans approval does not constitute permission to violate any adopted Feceral, 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 substartial 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

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 (4)

SHEET NO. 24

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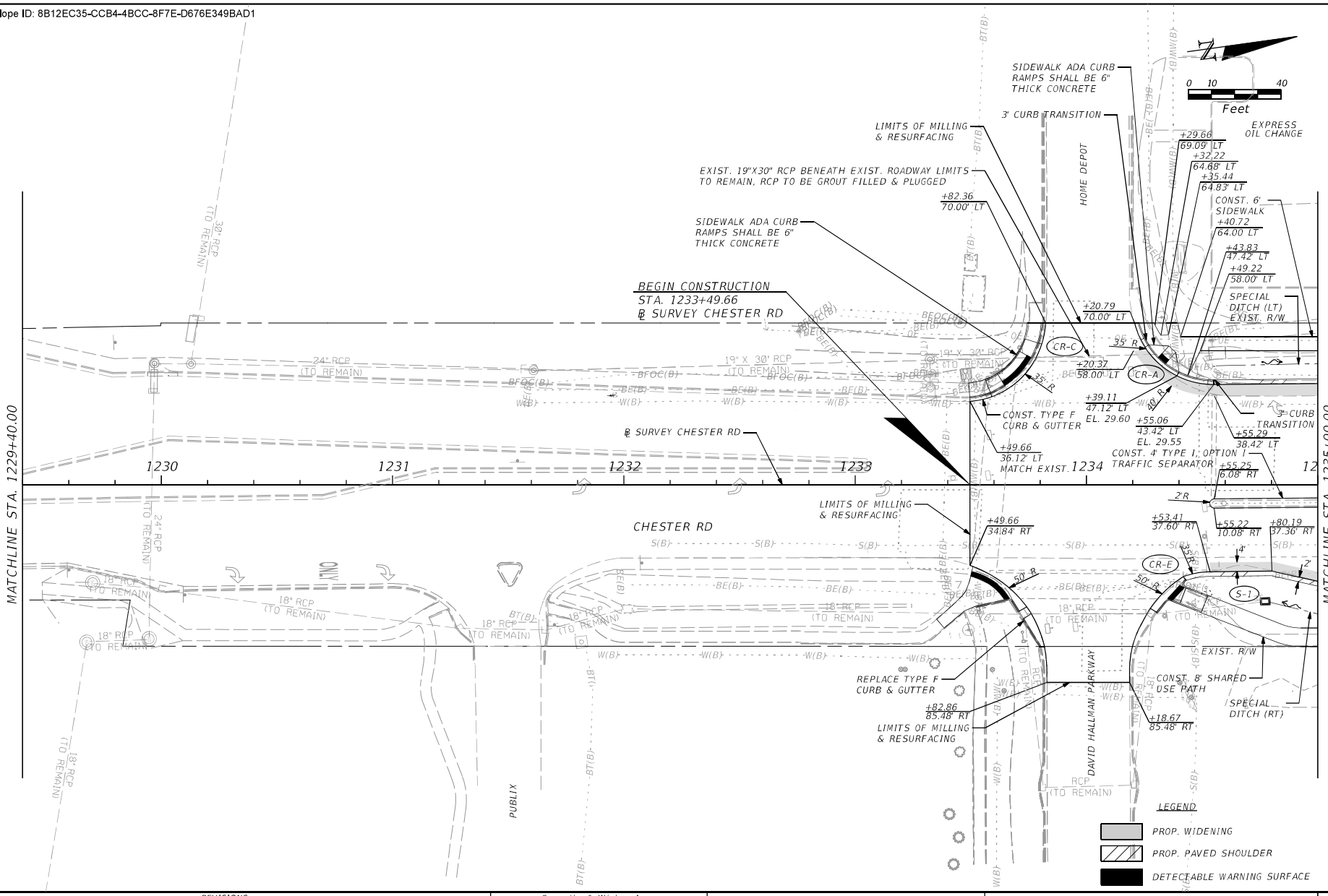

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

PLAN SHEET (1)

SHEET NO. 25

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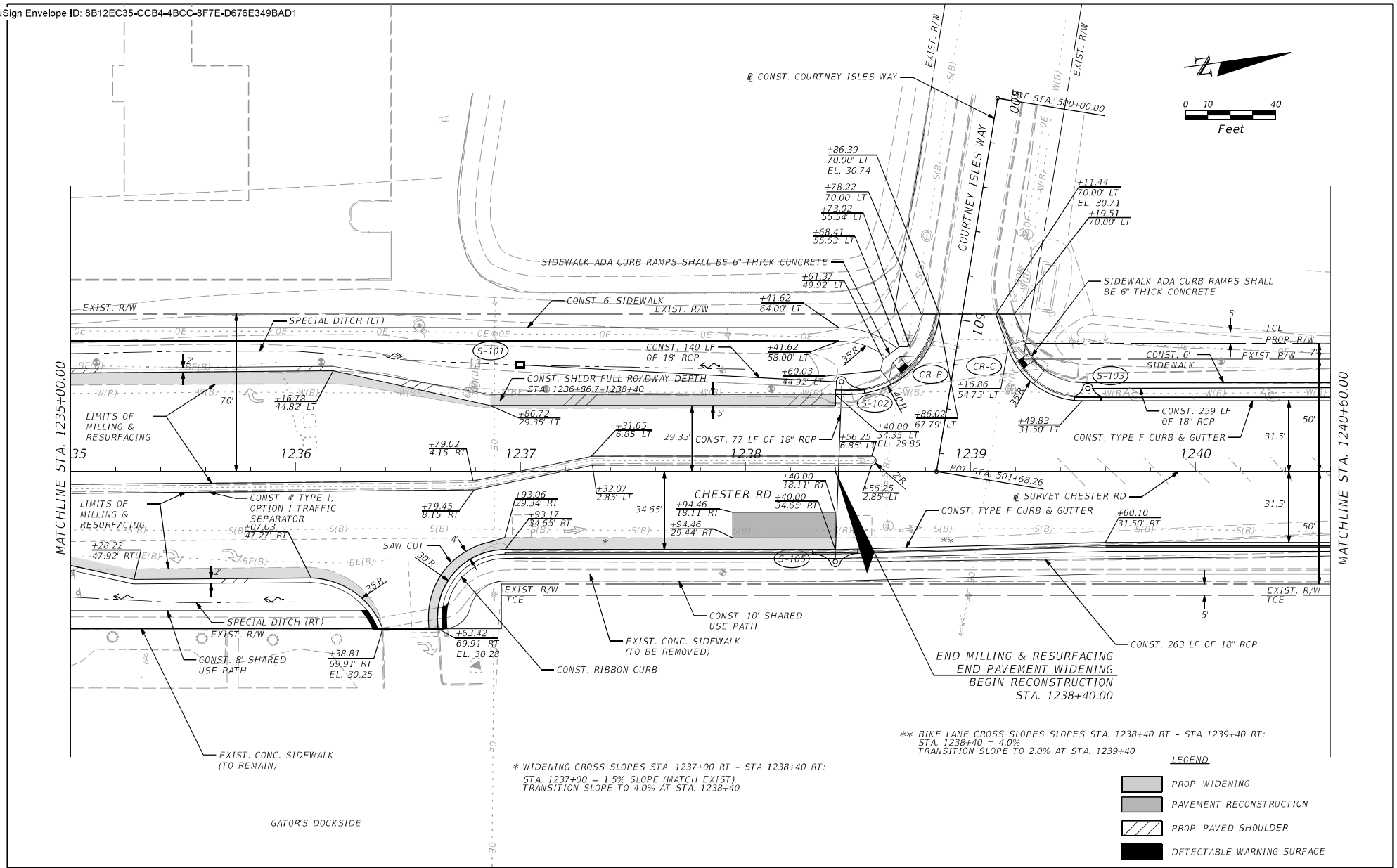

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10060 Skinner Lake Dr., Suite 500
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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

PLAN SHEET (2)

SHEET NO. 26

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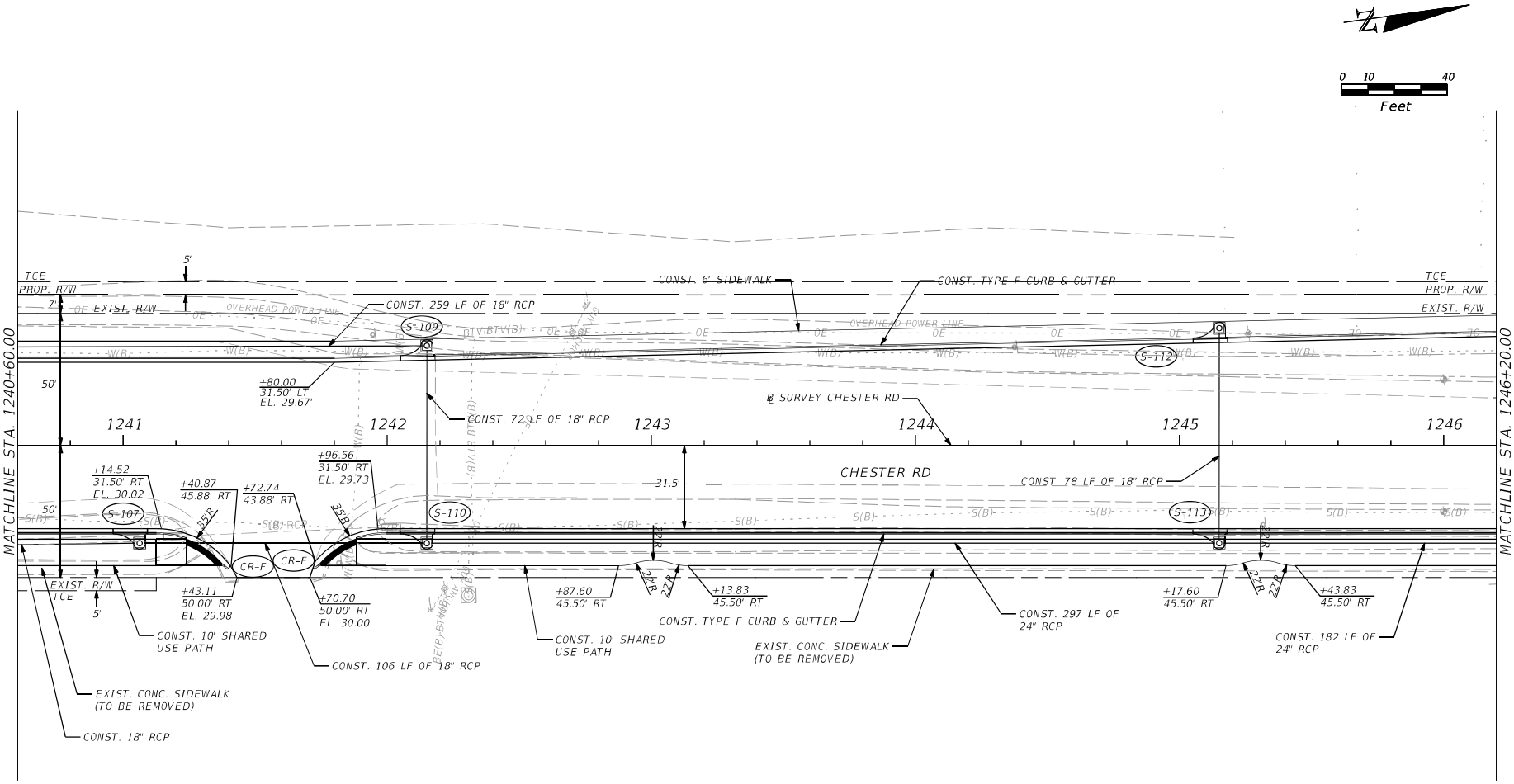

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Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

PLAN SHEET (3)

SHEET NO. 27

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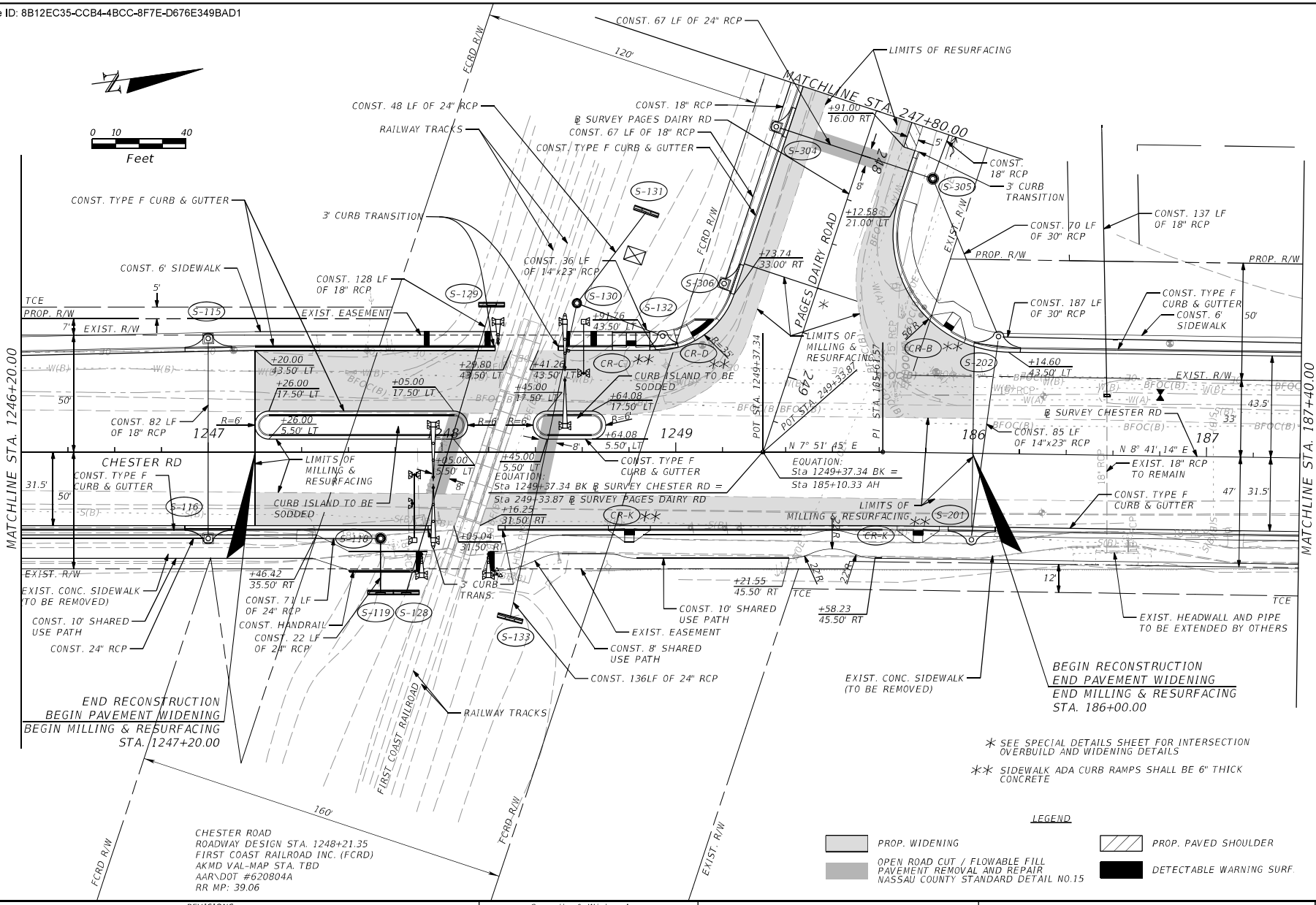

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Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
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FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

PLAN SHEET (4)

SHEET NO. 28

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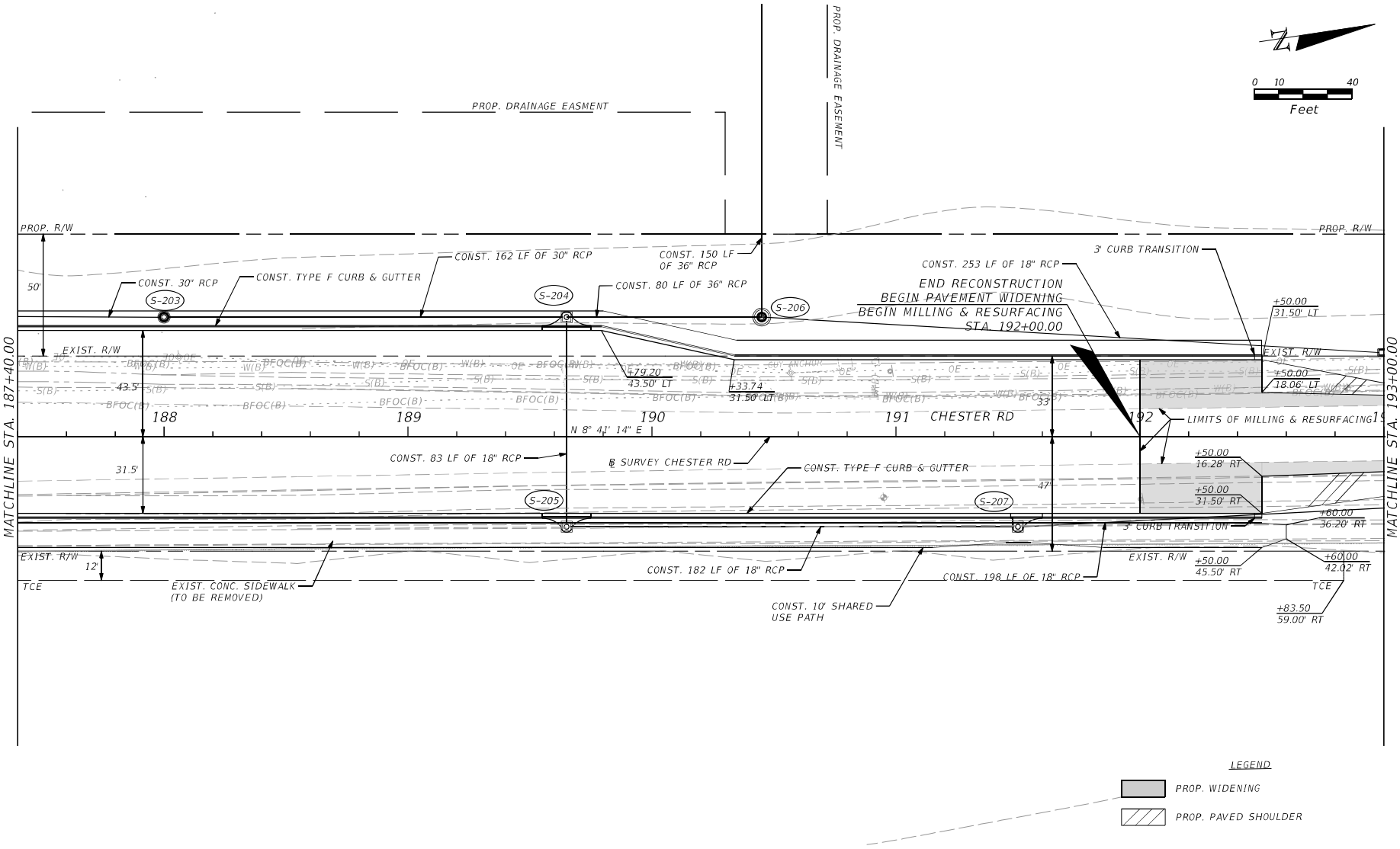

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Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

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 (5)

SHEET NO. 29

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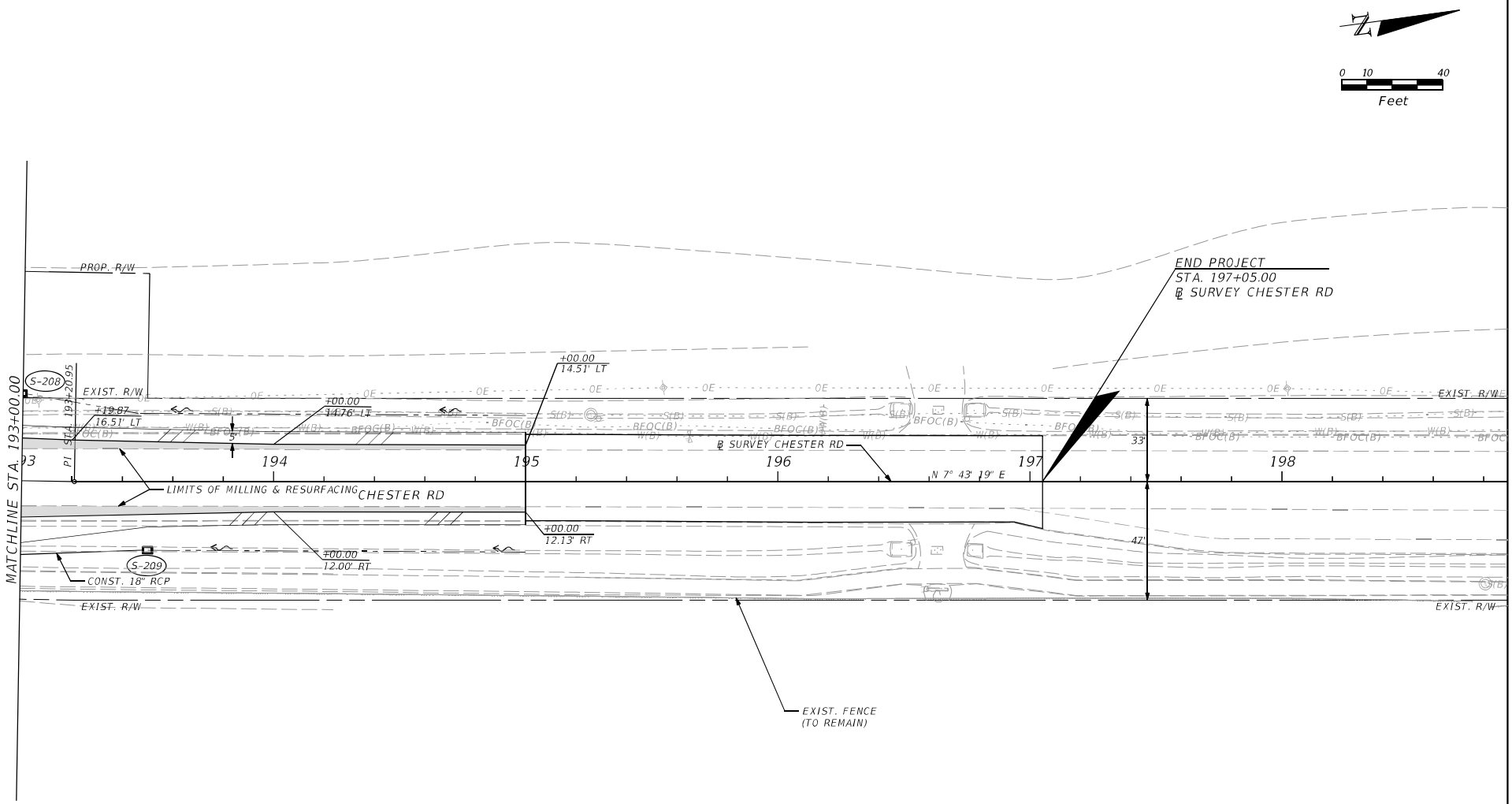

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NASSAU COUNTY ENGINEERING

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	NASSAU	

PLAN SHEET (6)

SHEET NO. 30

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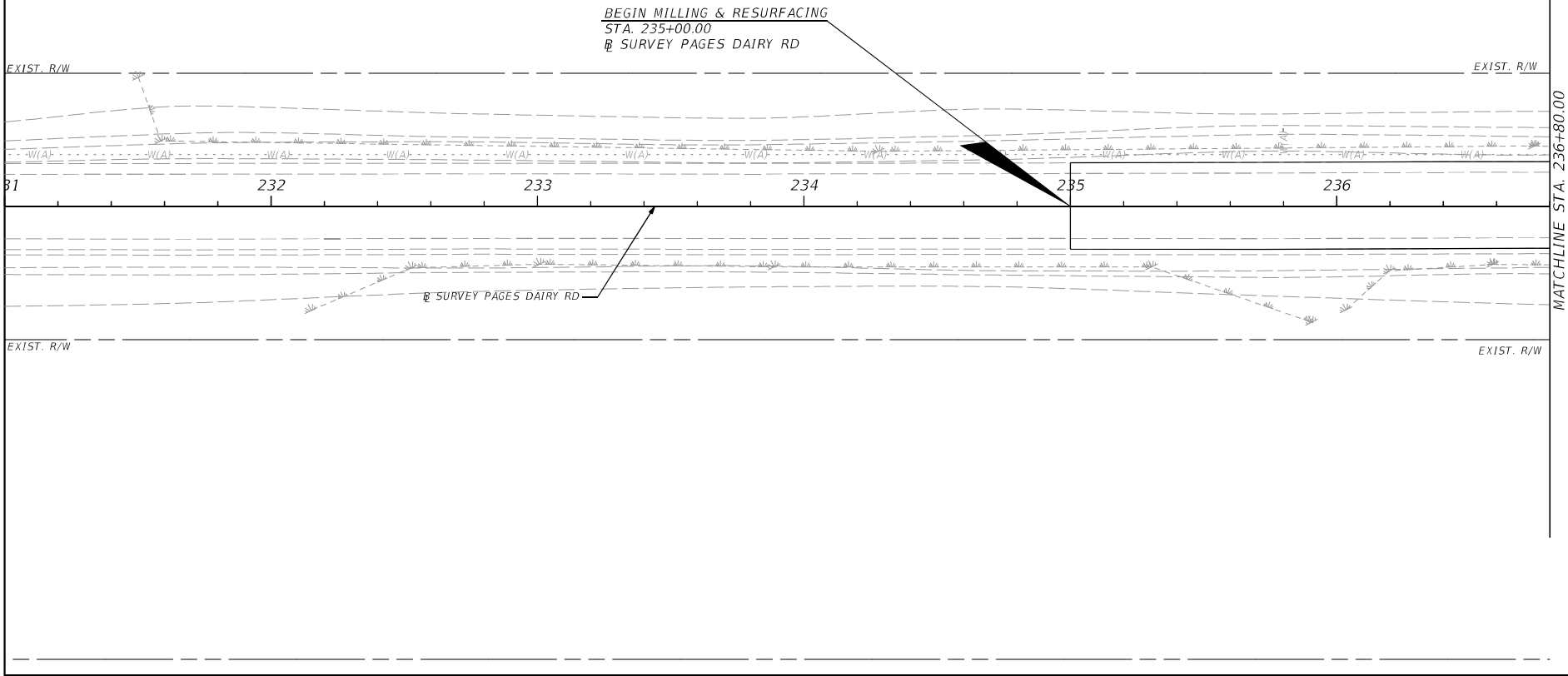

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Jacksonville, FL 32246
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Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

PLAN SHEET (7)

SHEET NO. 31

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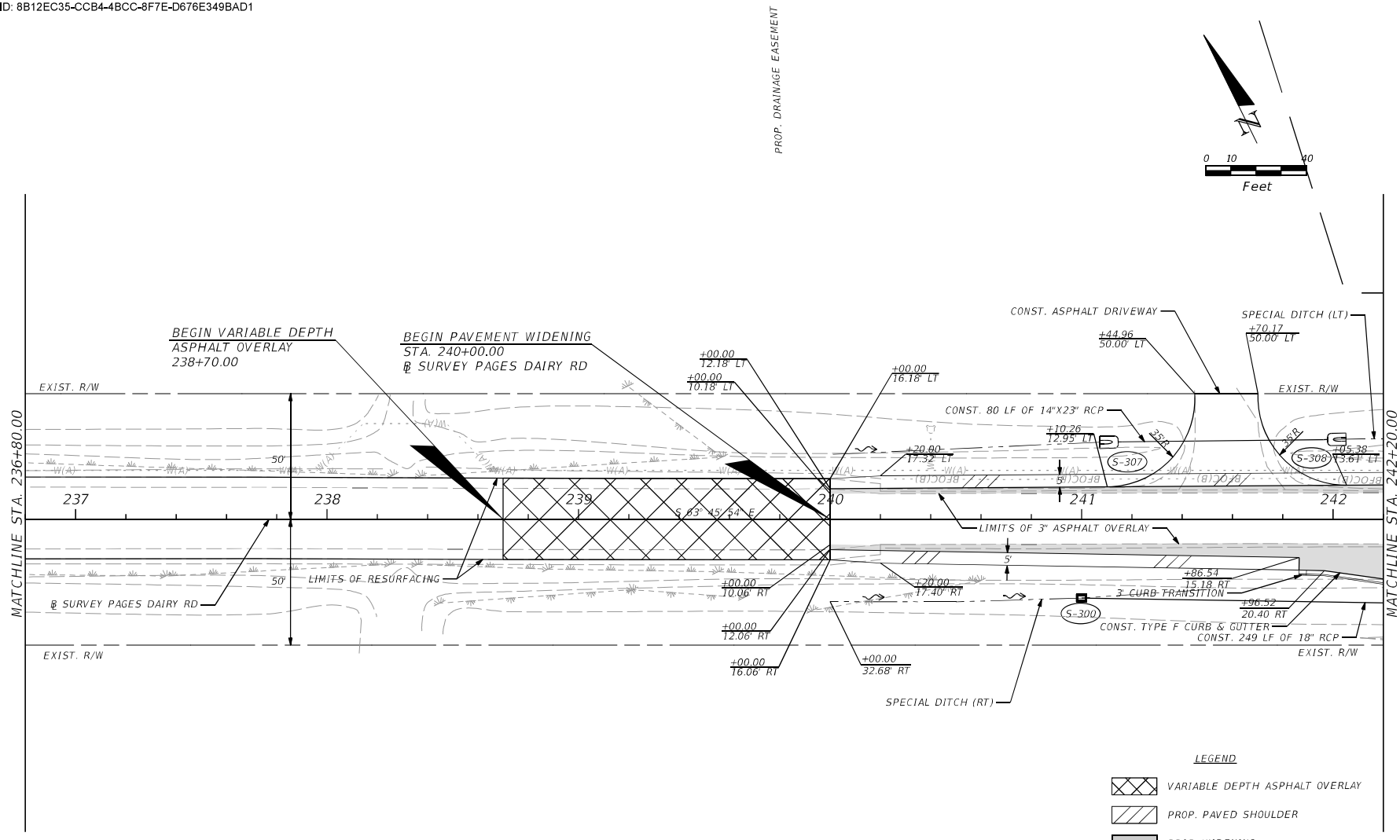

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Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

PLAN SHEET (8)

SHEET NO. 32

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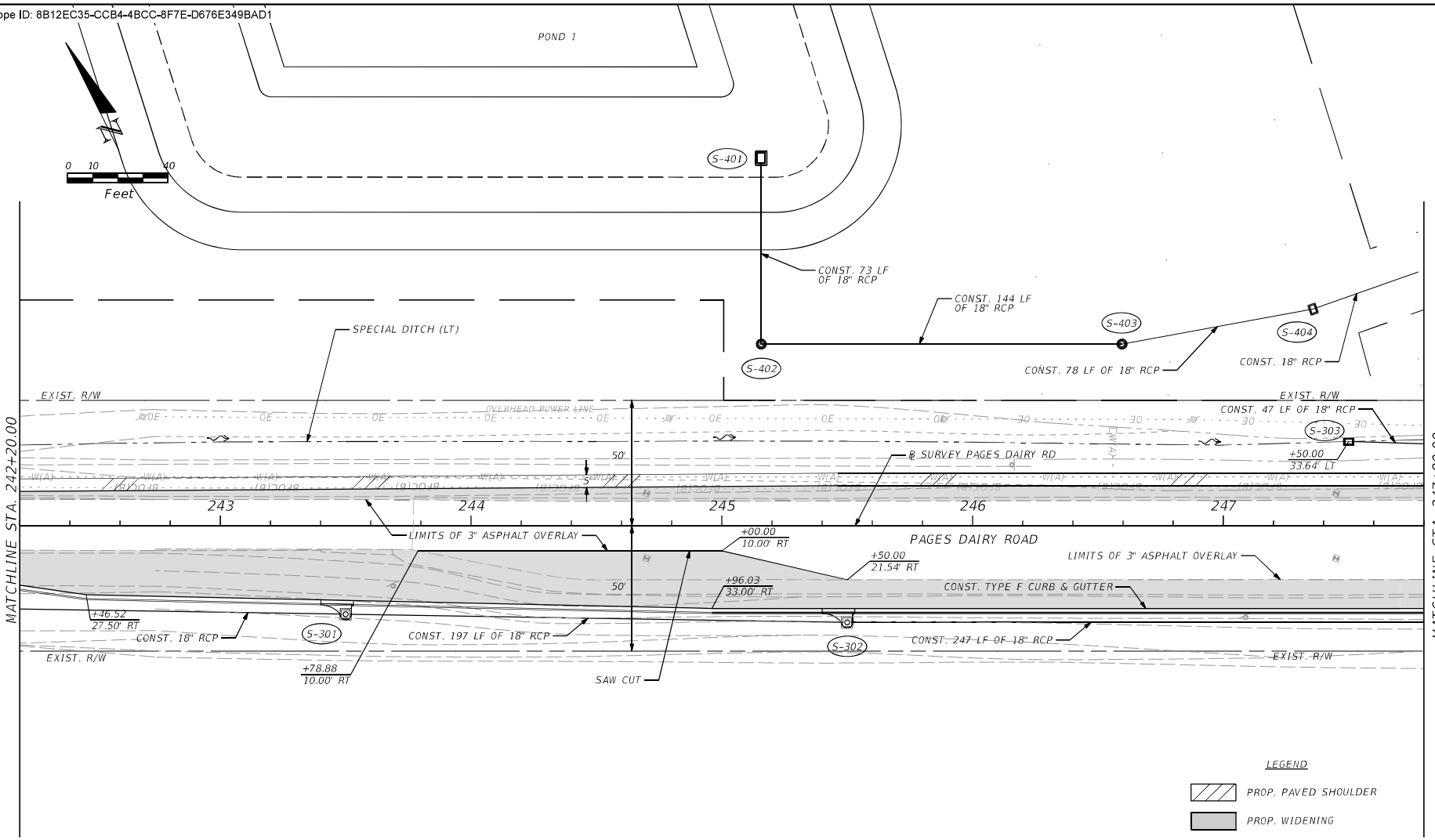

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Jacksonville, FL 32246
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Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

PLAN SHEET (9)

SHEET NO. 33

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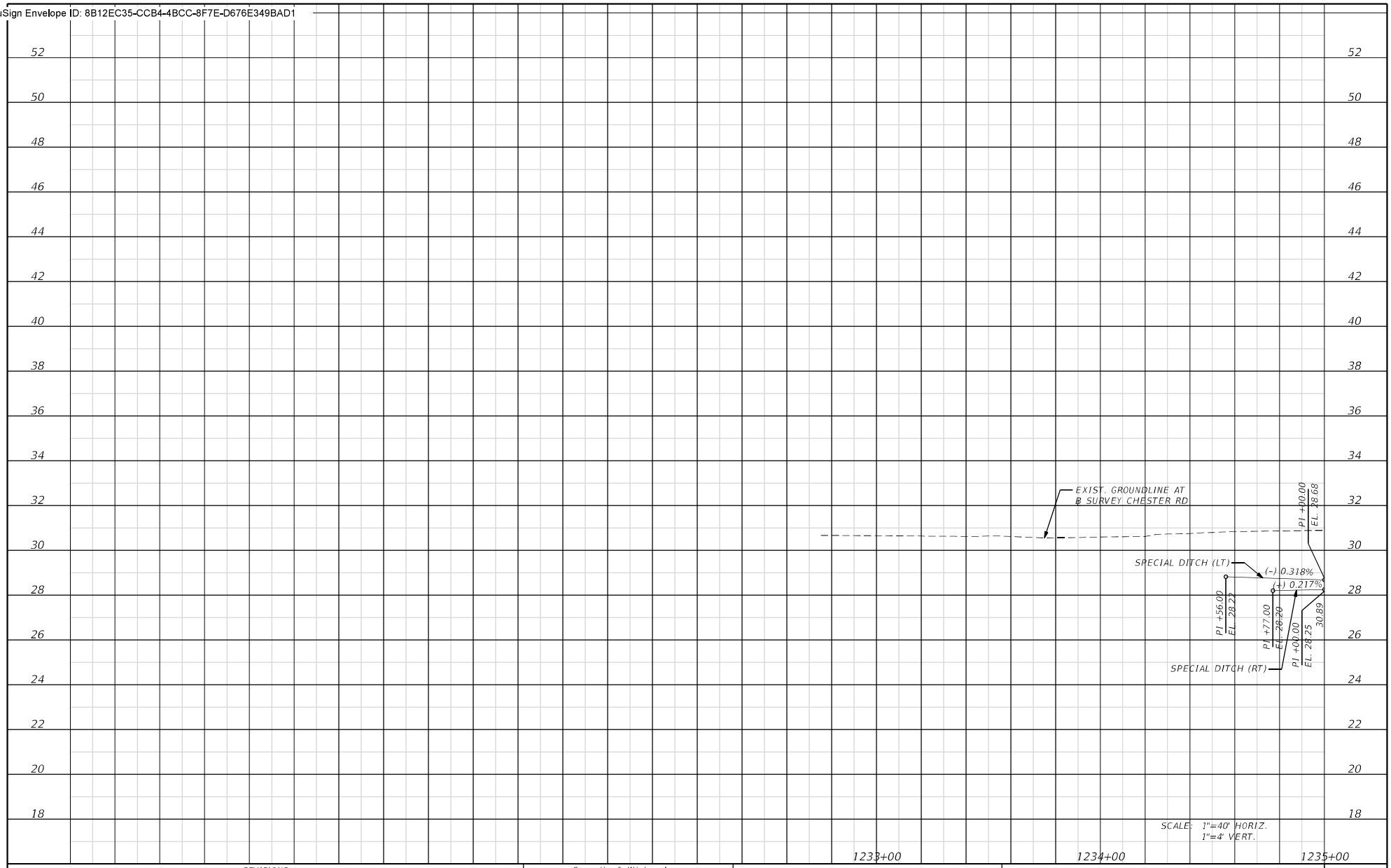

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NASSAU COUNTY ENGINEERING

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.

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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	

PROFILE SHEET (2)
CHESTER RD

SHEET NO. 35

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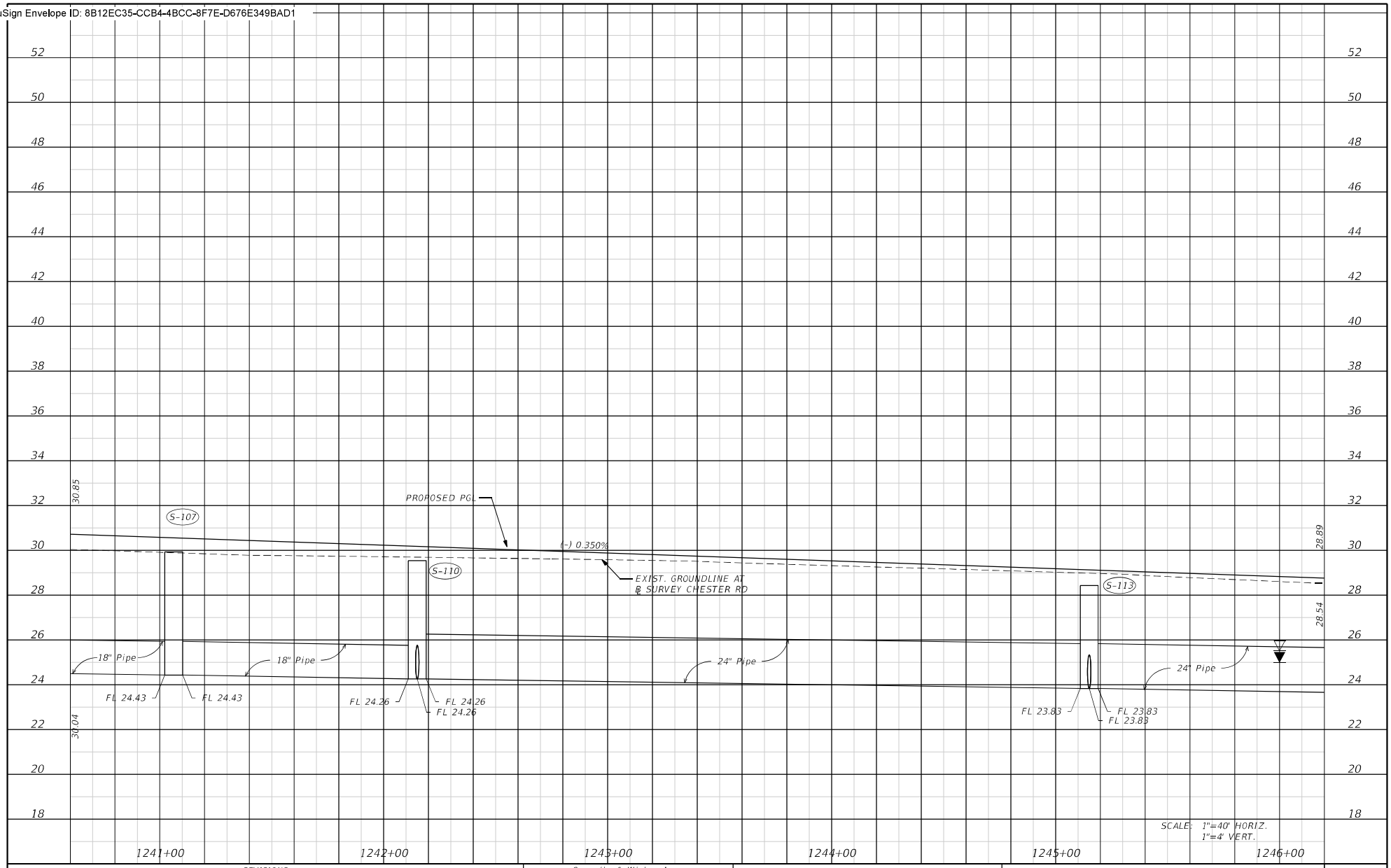

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1"=4' VERT.

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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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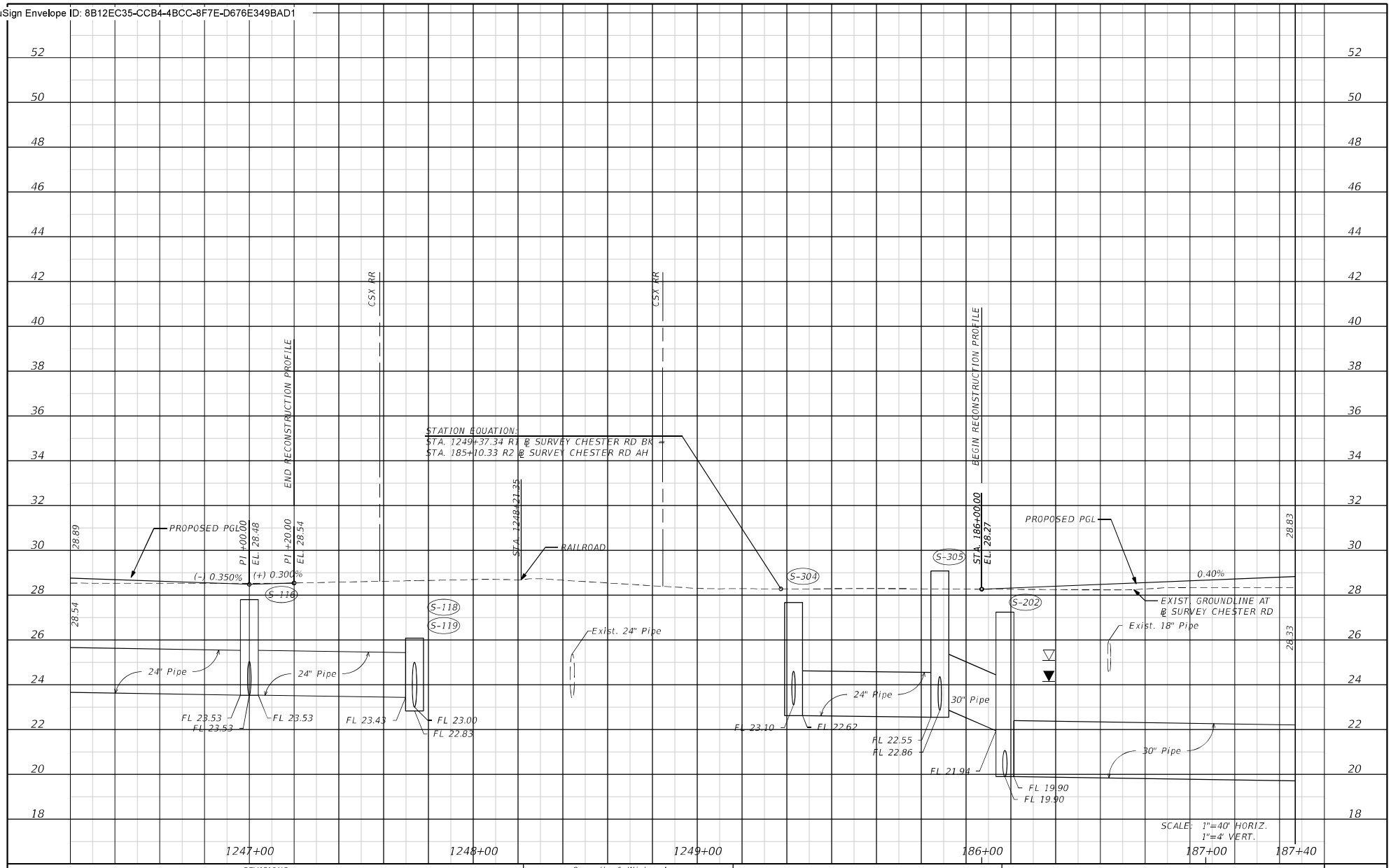

REVISIONS			
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Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

PROFILE SHEET (4)
CHESTER RD

SHEET NO. 37

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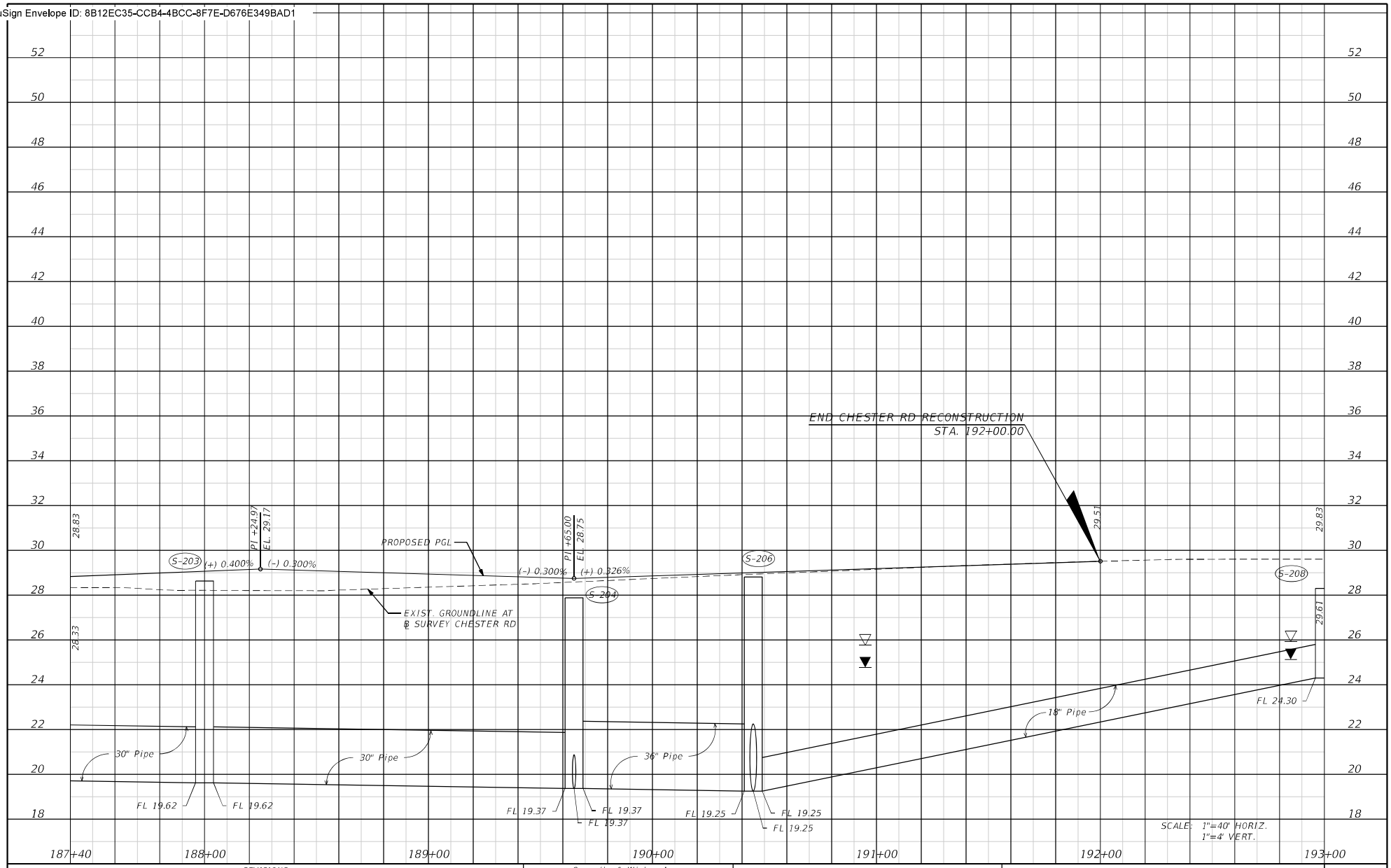

REVISIONS			
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10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
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FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

PROFILE SHEET (5)
CHESTER RD

SHEET NO. 38

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

PROFILE SHEET (6)
CHESTER RD

SHEET NO. 39

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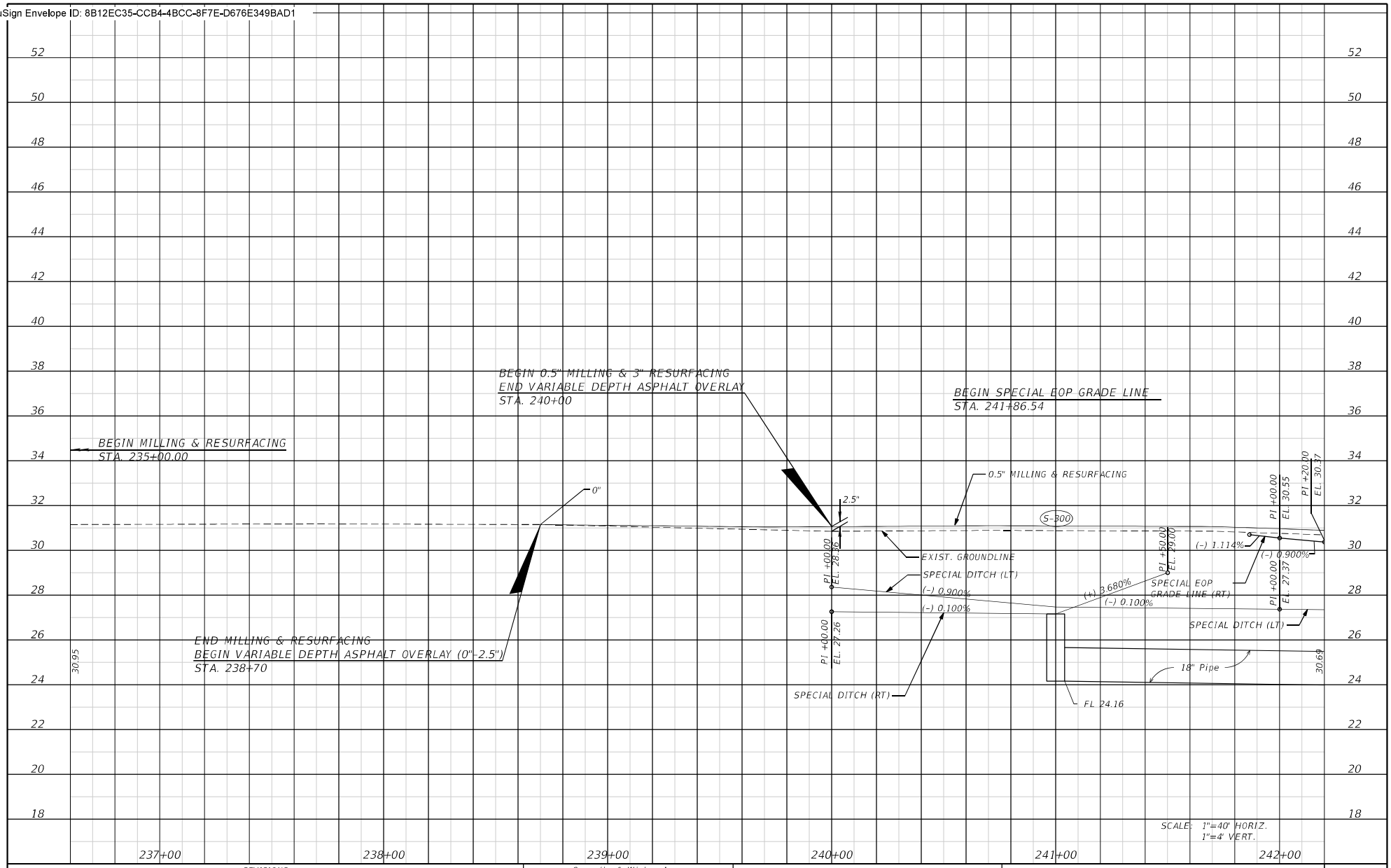

REVISIONS			
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Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
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FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

PROFILE SHEET (7)
PAGES DAIRY RD

SHEET NO. 40

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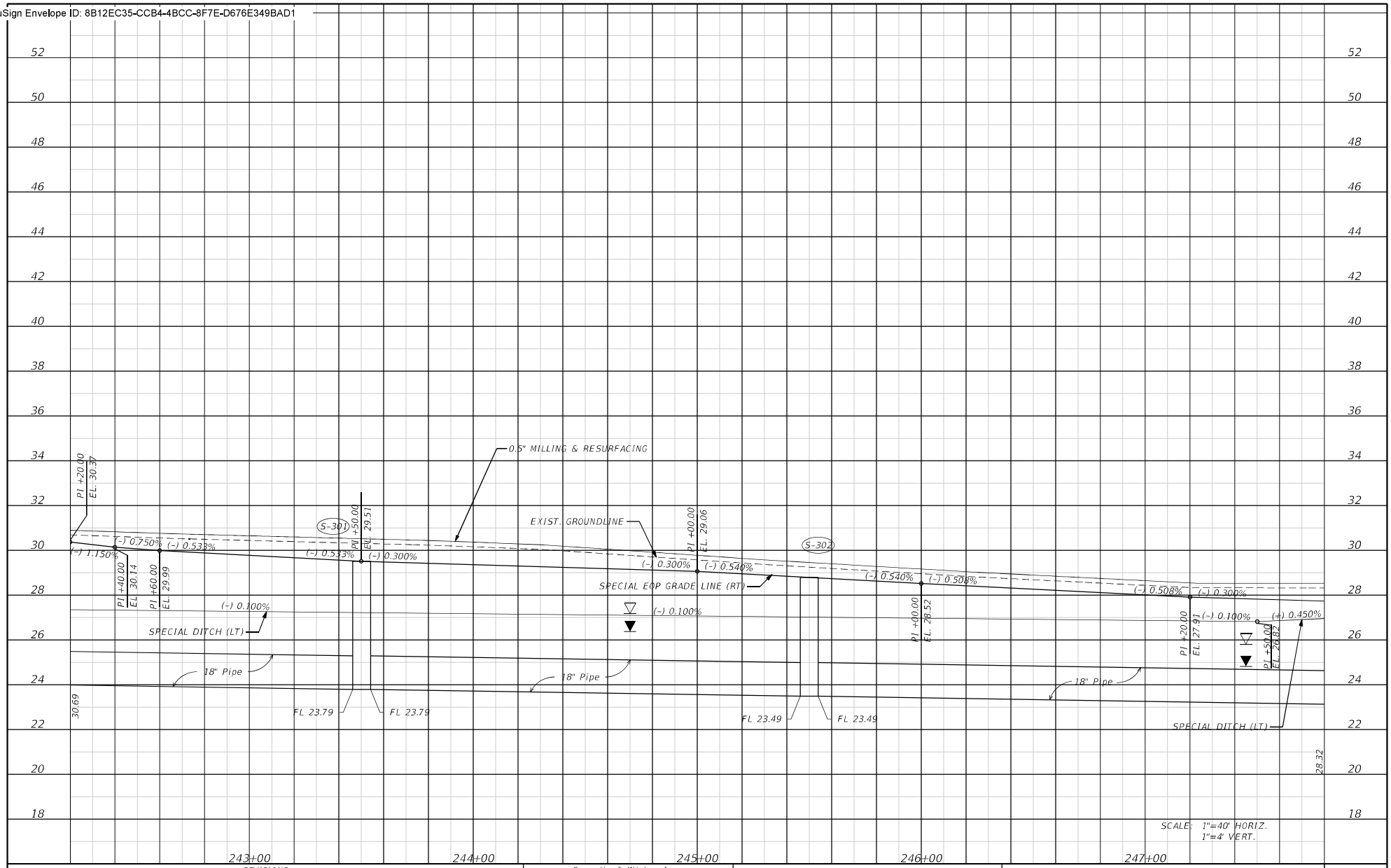

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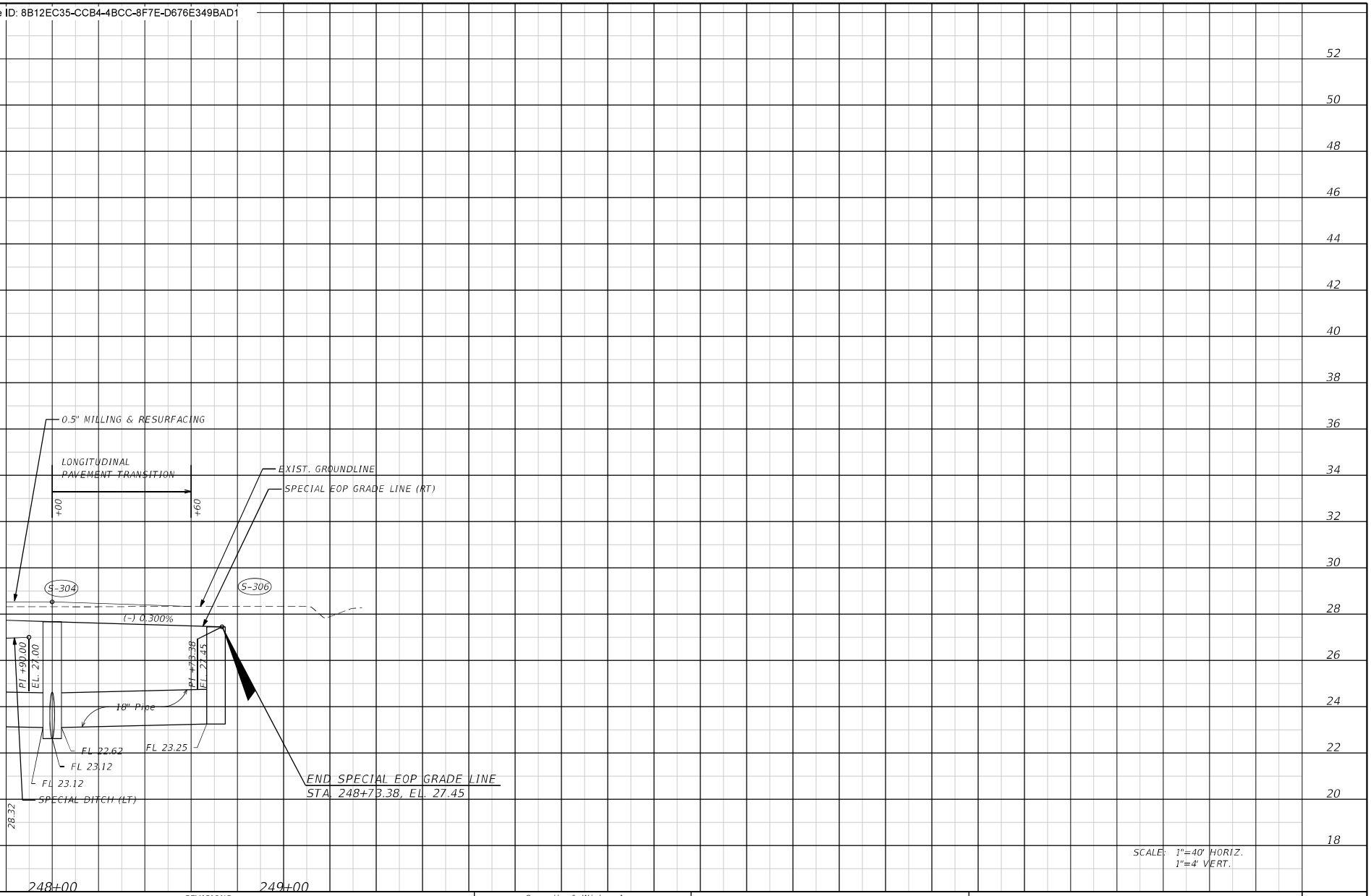
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

PROFILE SHEET (8)
PAGES DAIRY RD

SHEET NO. 41

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1



SCALE: 1"=40' HORIZ.
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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

PROFILE SHEET (9)
PAGES DAIRY RD

SHEET NO. 42

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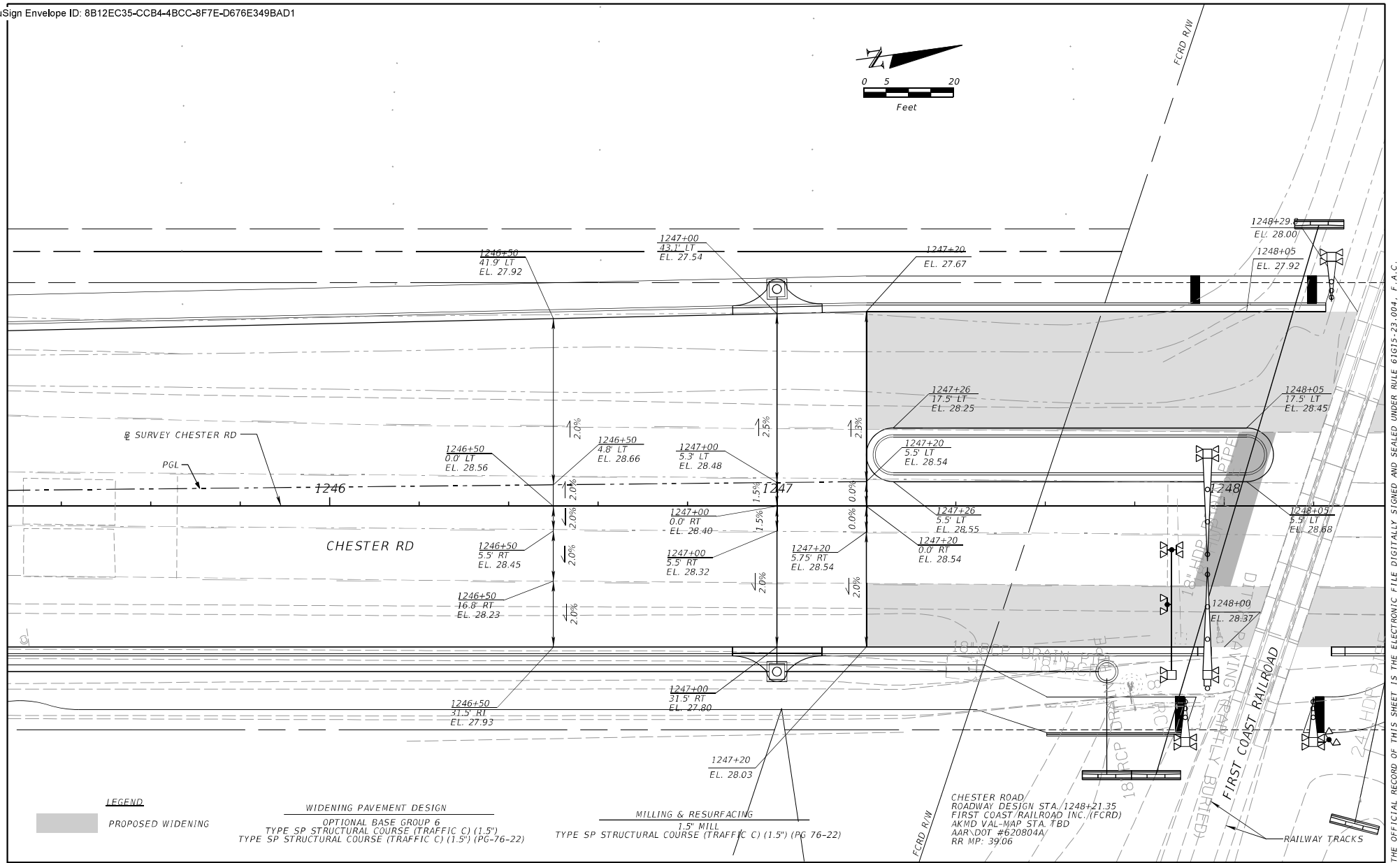

LEGEND

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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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

SPECIAL DETAILS

SHEET NO. 43

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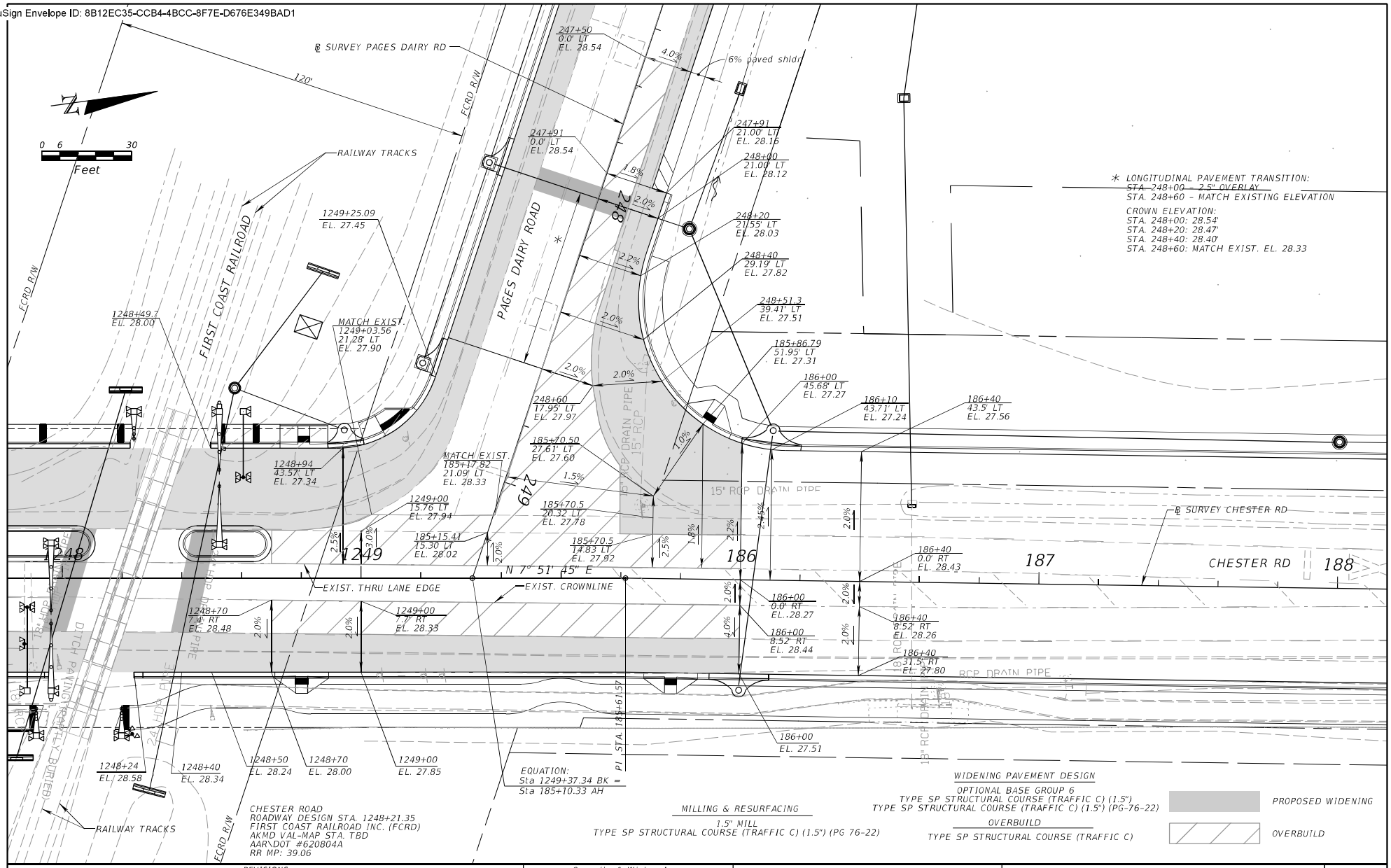

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Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
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FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

SPECIAL DETAILS

SHEET NO. 44

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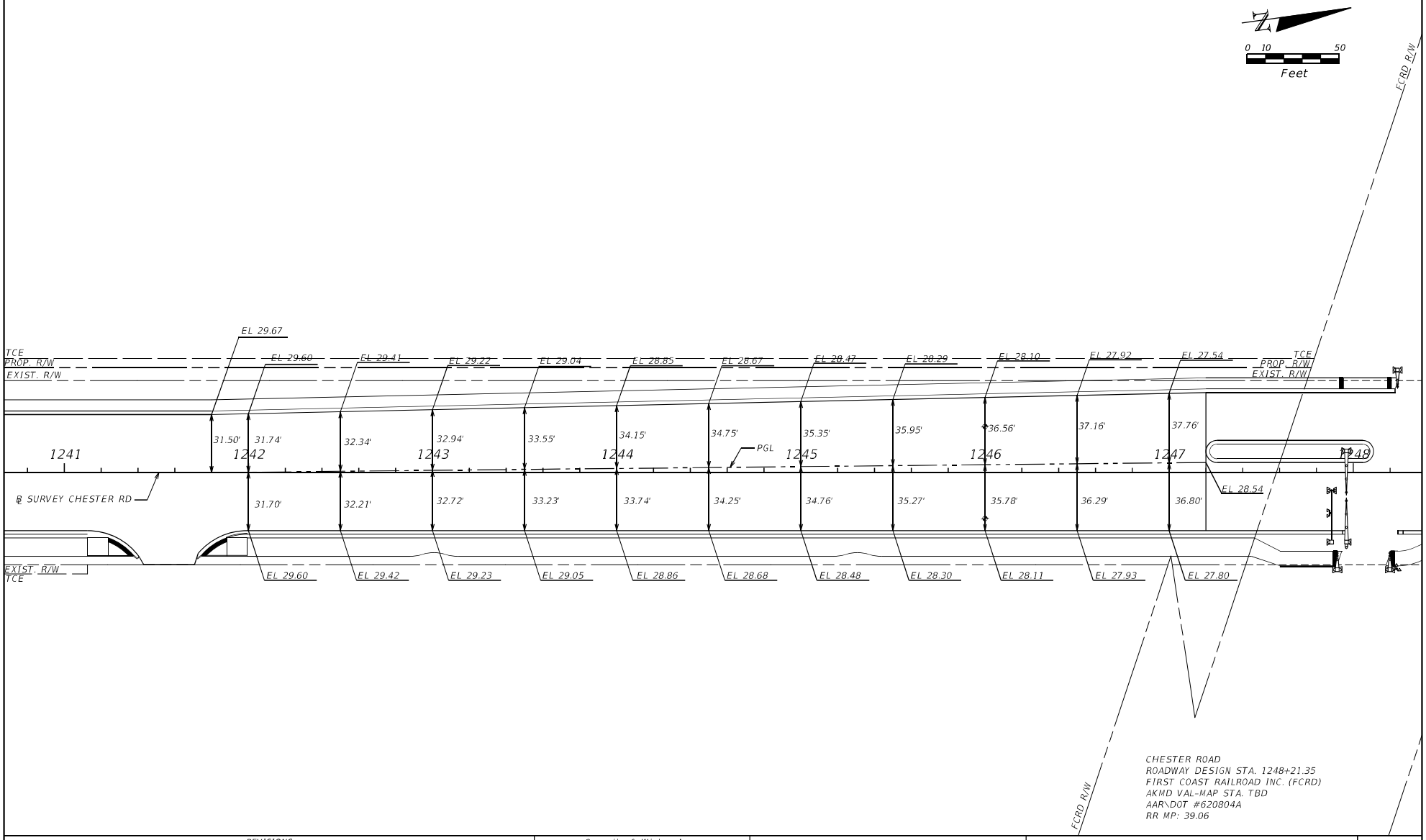

REVISIONS			
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Connelly & Wicker Inc.
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Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

SPECIAL DETAILS

SHEET NO. 45

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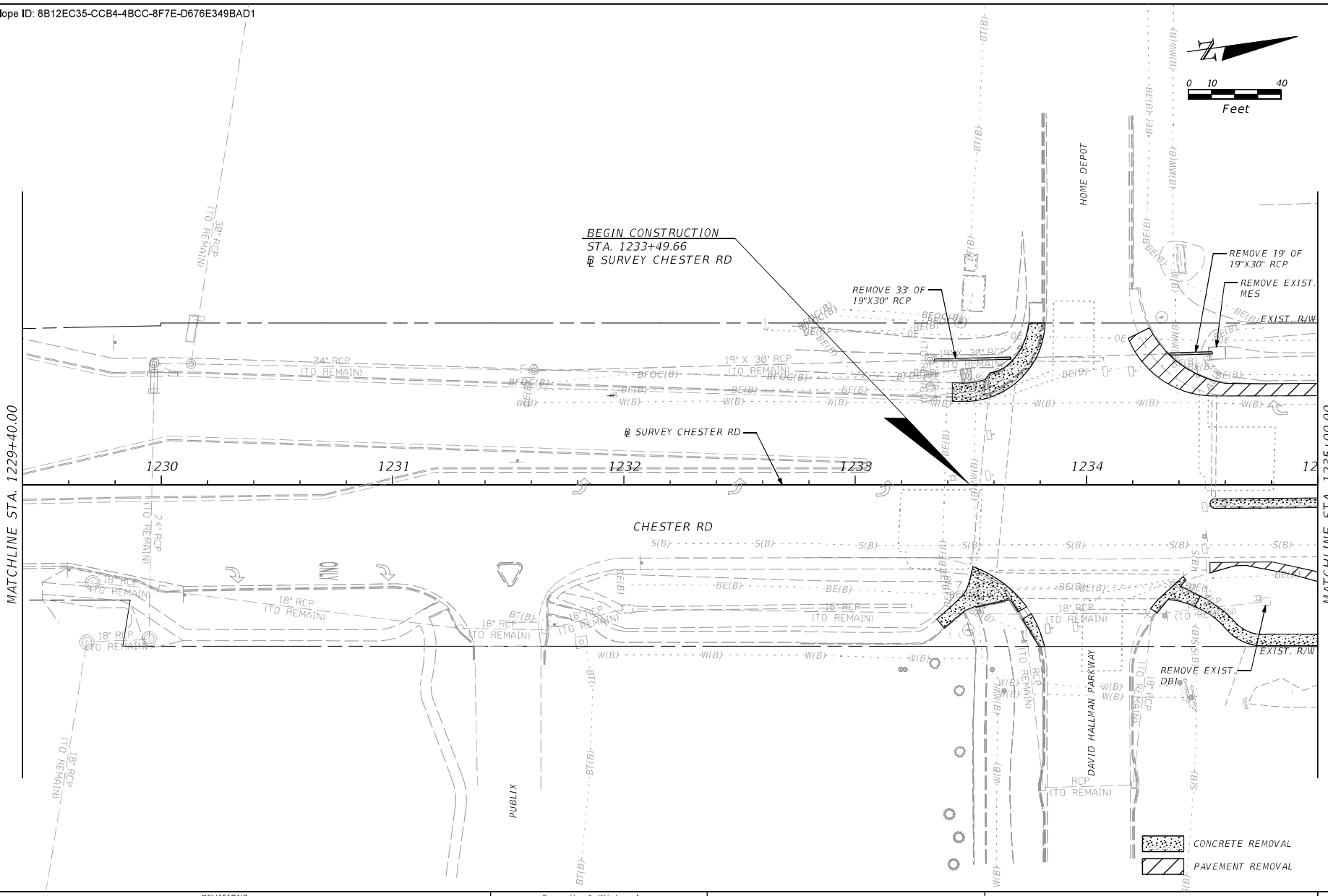

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10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

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FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

DEMOLITION SHEET (1)

SHEET NO. 46

Danny 12/14/2023 8:16:33 AM J:\Transportation\Projects\17-01-0202_ChesterInt\roadway\PLANDEM02.DGN

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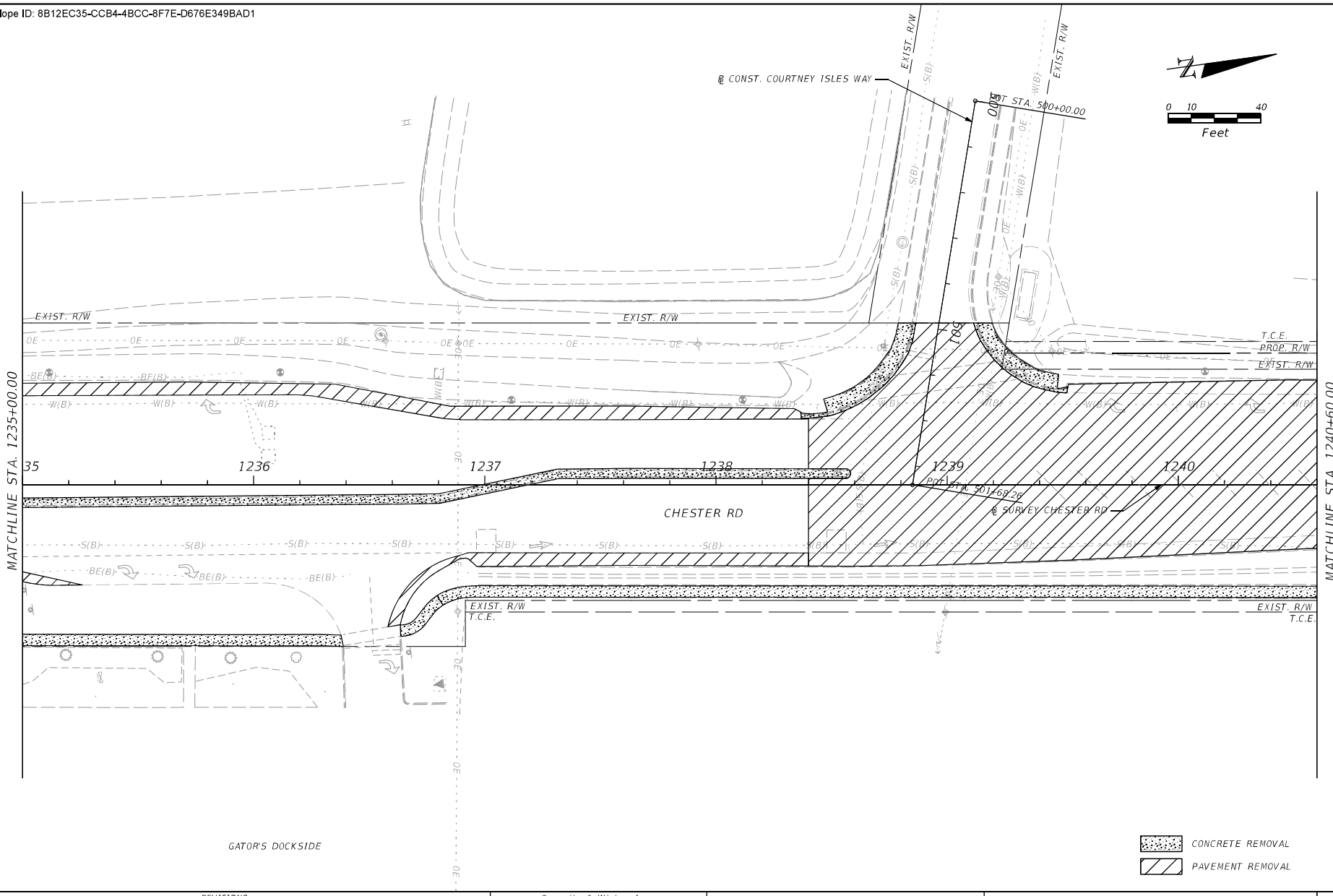

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Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
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FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

DEMOLITION SHEET (2)

SHEET NO. 47

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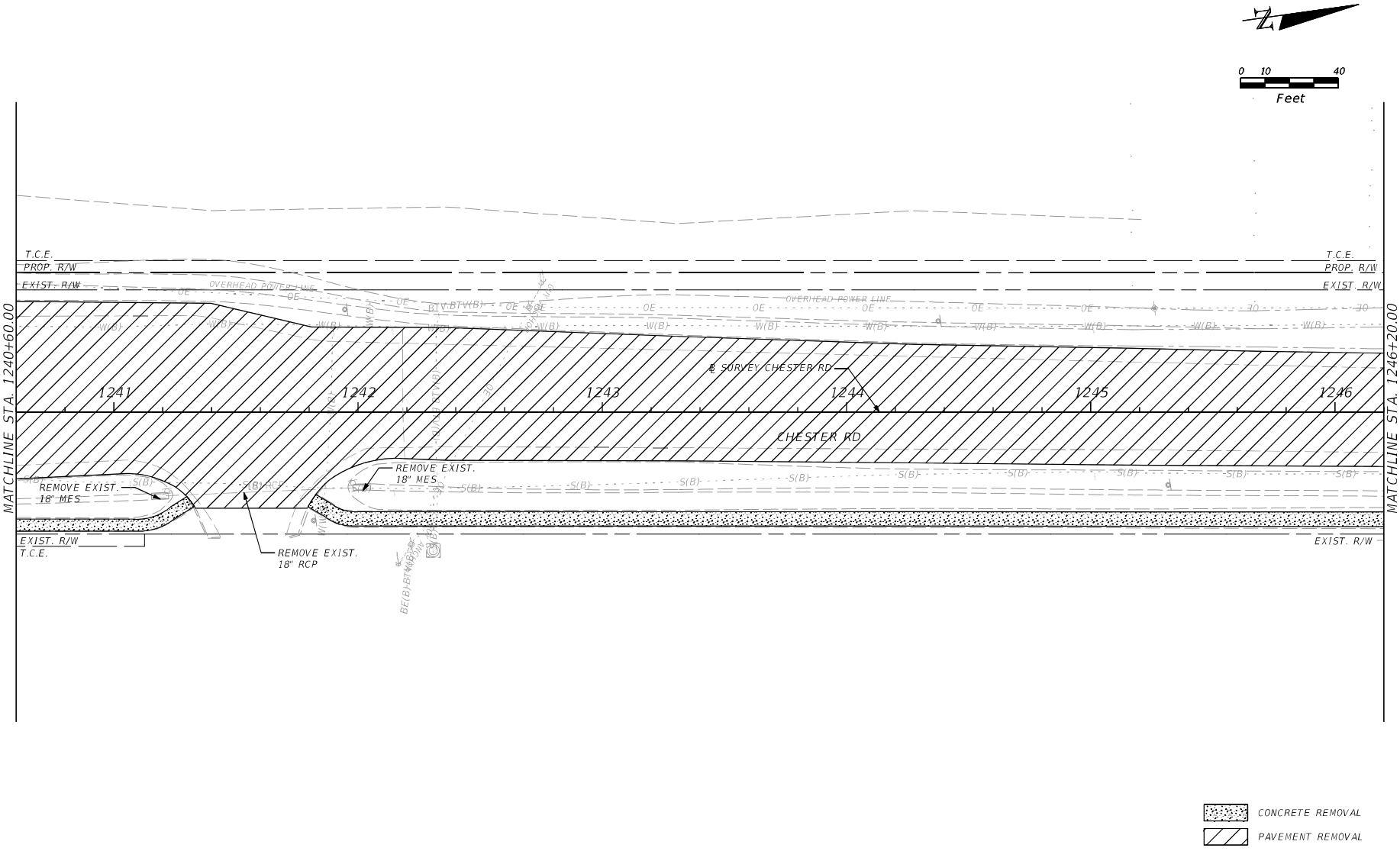

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

DEMOLITION SHEET (3)

SHEET NO. 48

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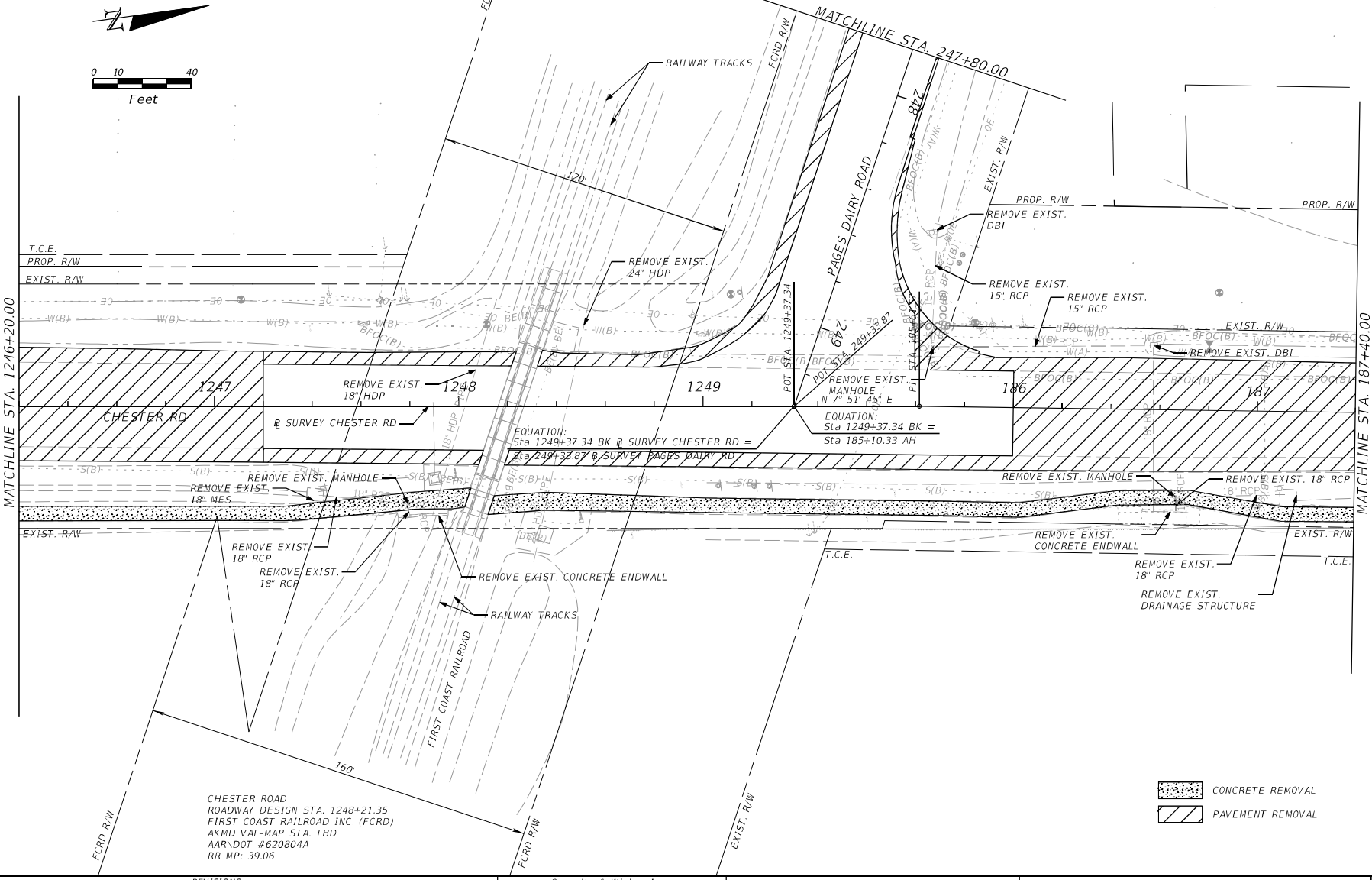

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

DEMOLITION SHEET (4)

SHEET NO. 49

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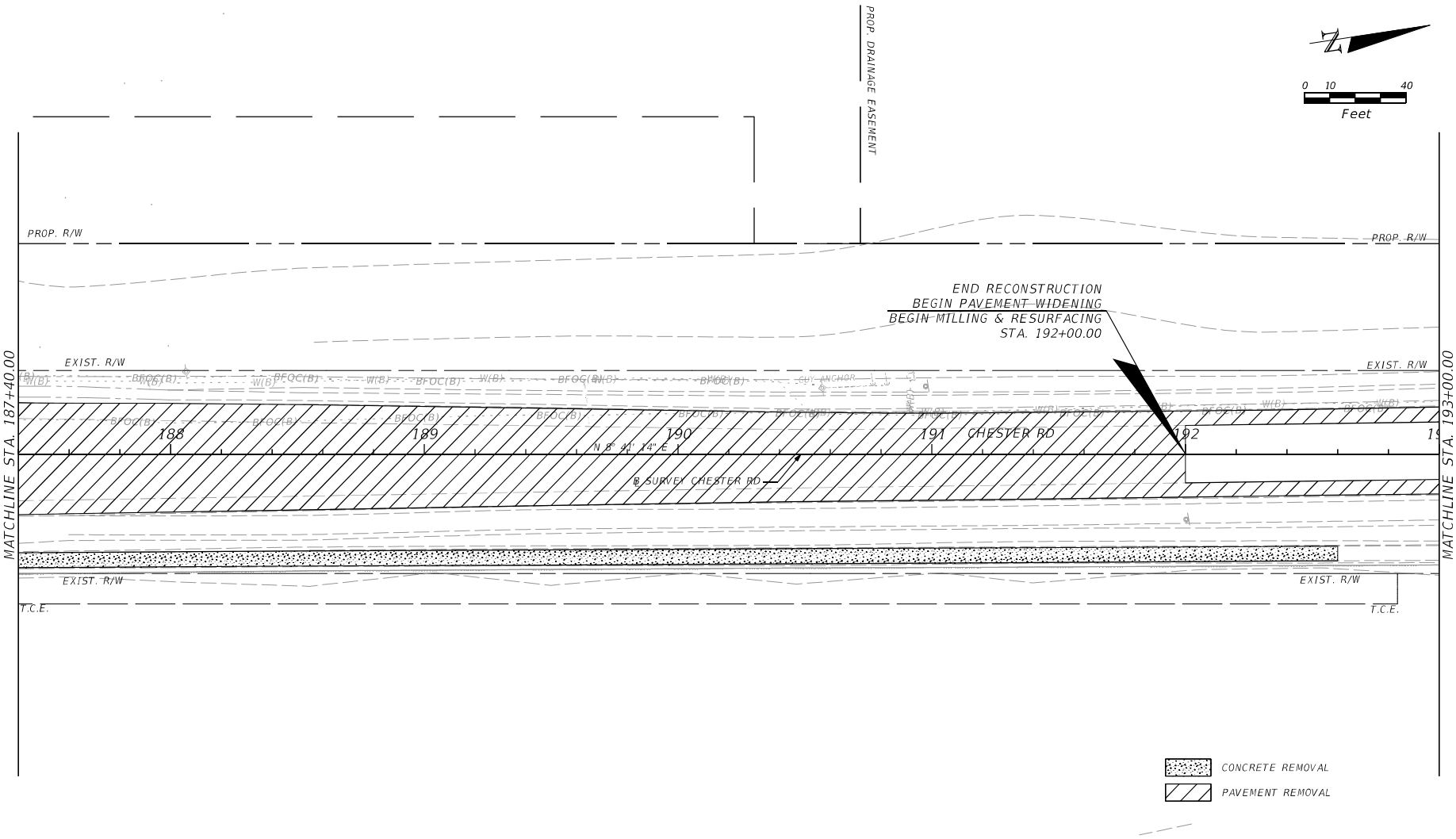

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

DEMOLITION SHEET (5)

SHEET NO. 50

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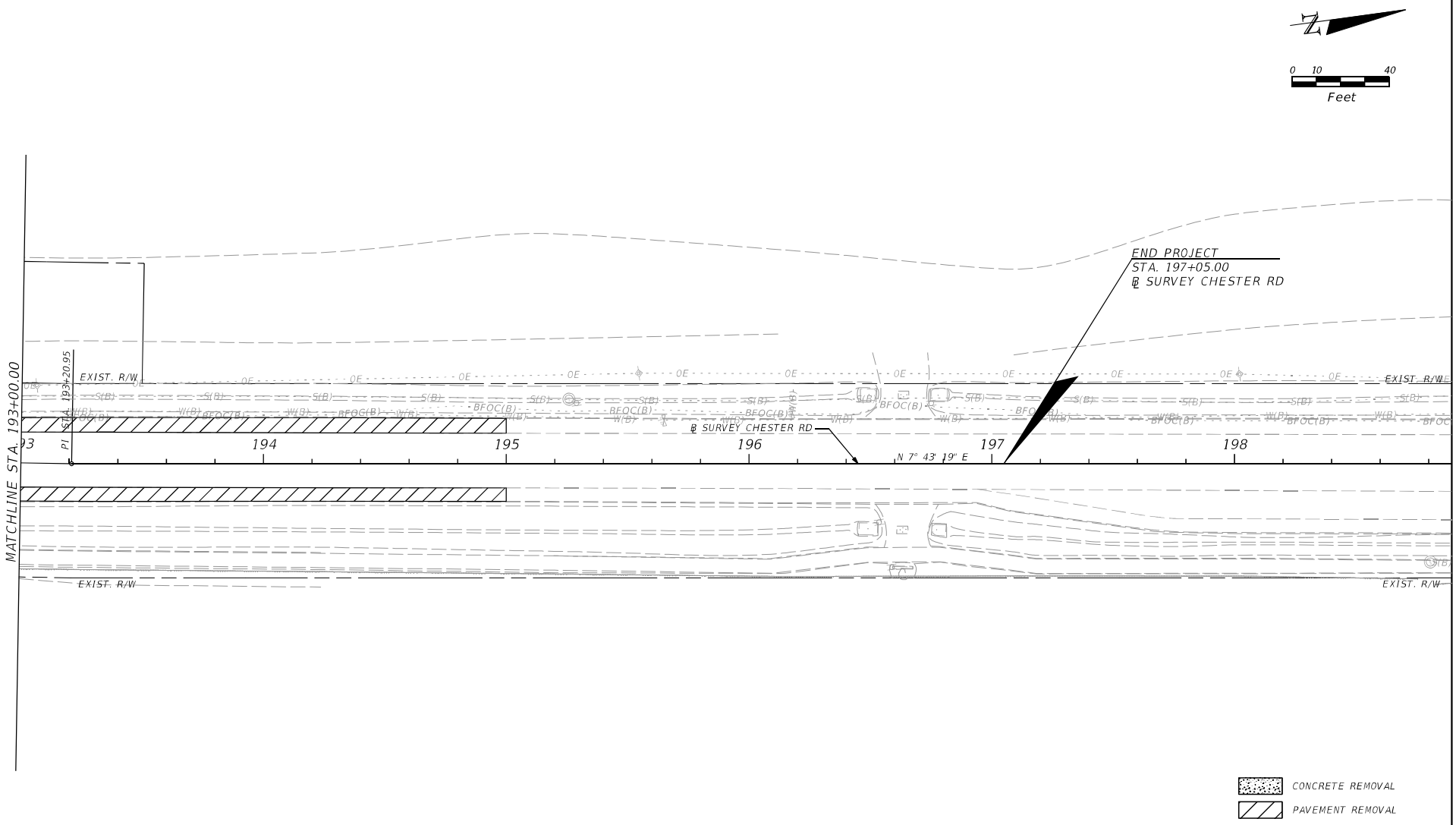

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

DEMOLITION SHEET (6)

SHEET NO. 51

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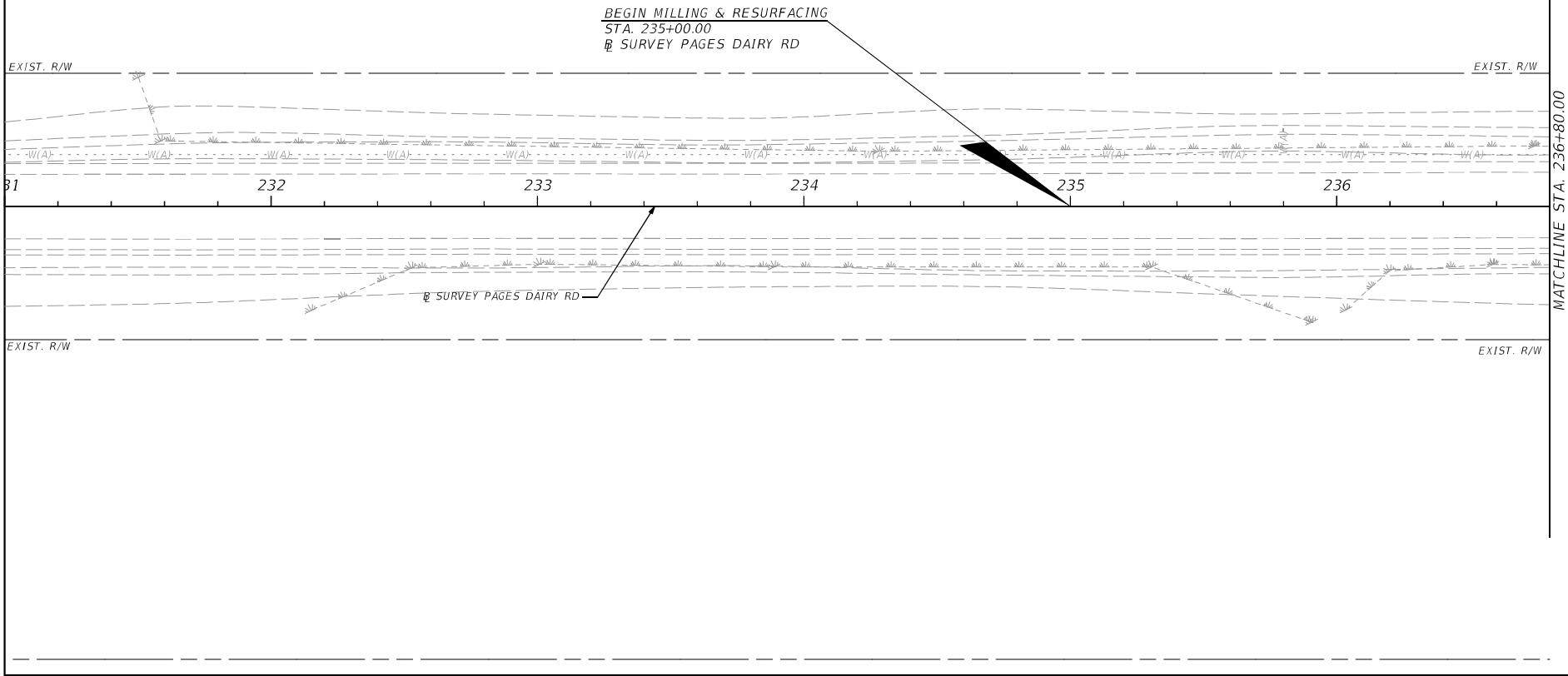

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

DEMOLITION SHEET (7)

SHEET NO. 52

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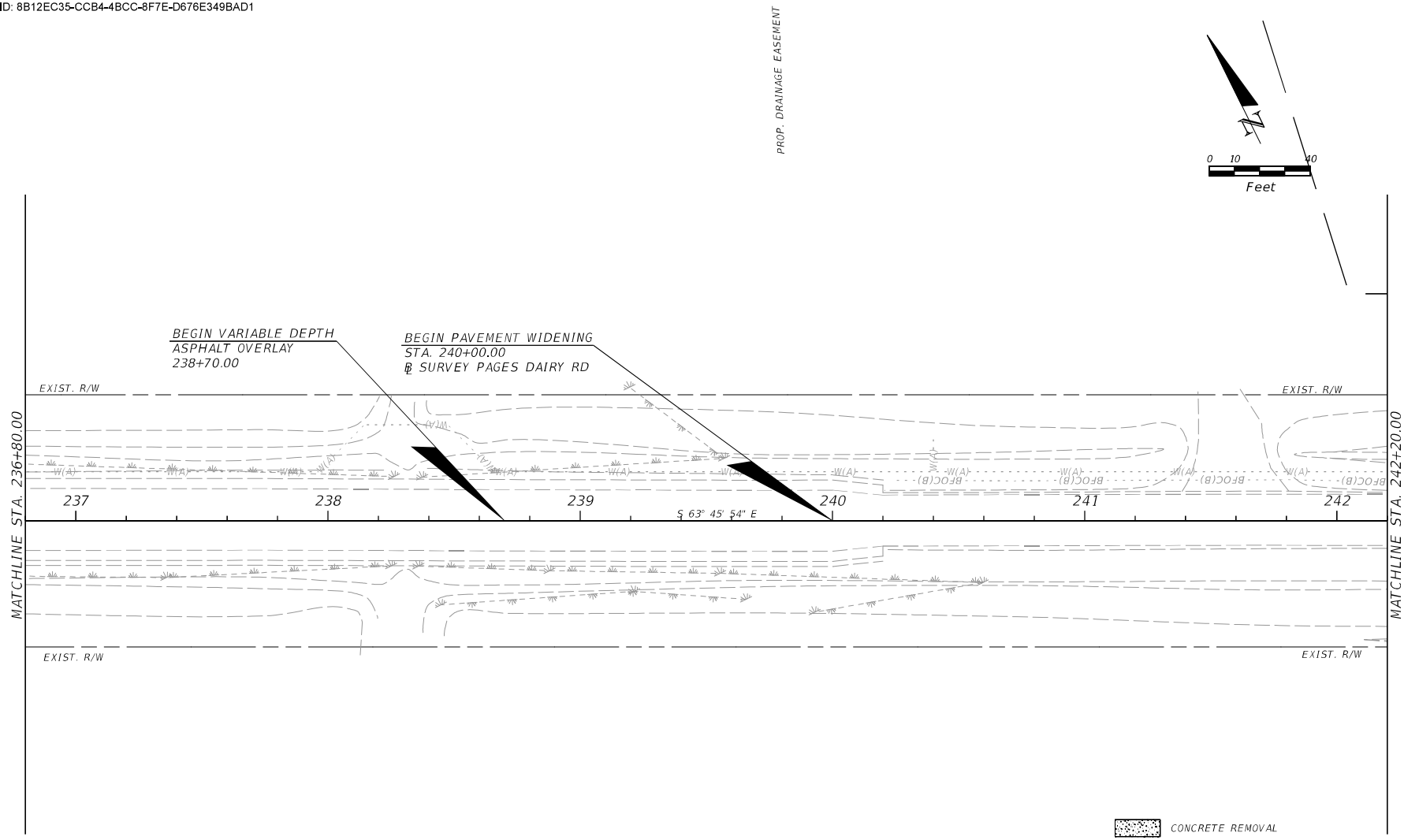

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

DEMOLITION SHEET (8)

SHEET NO. 53

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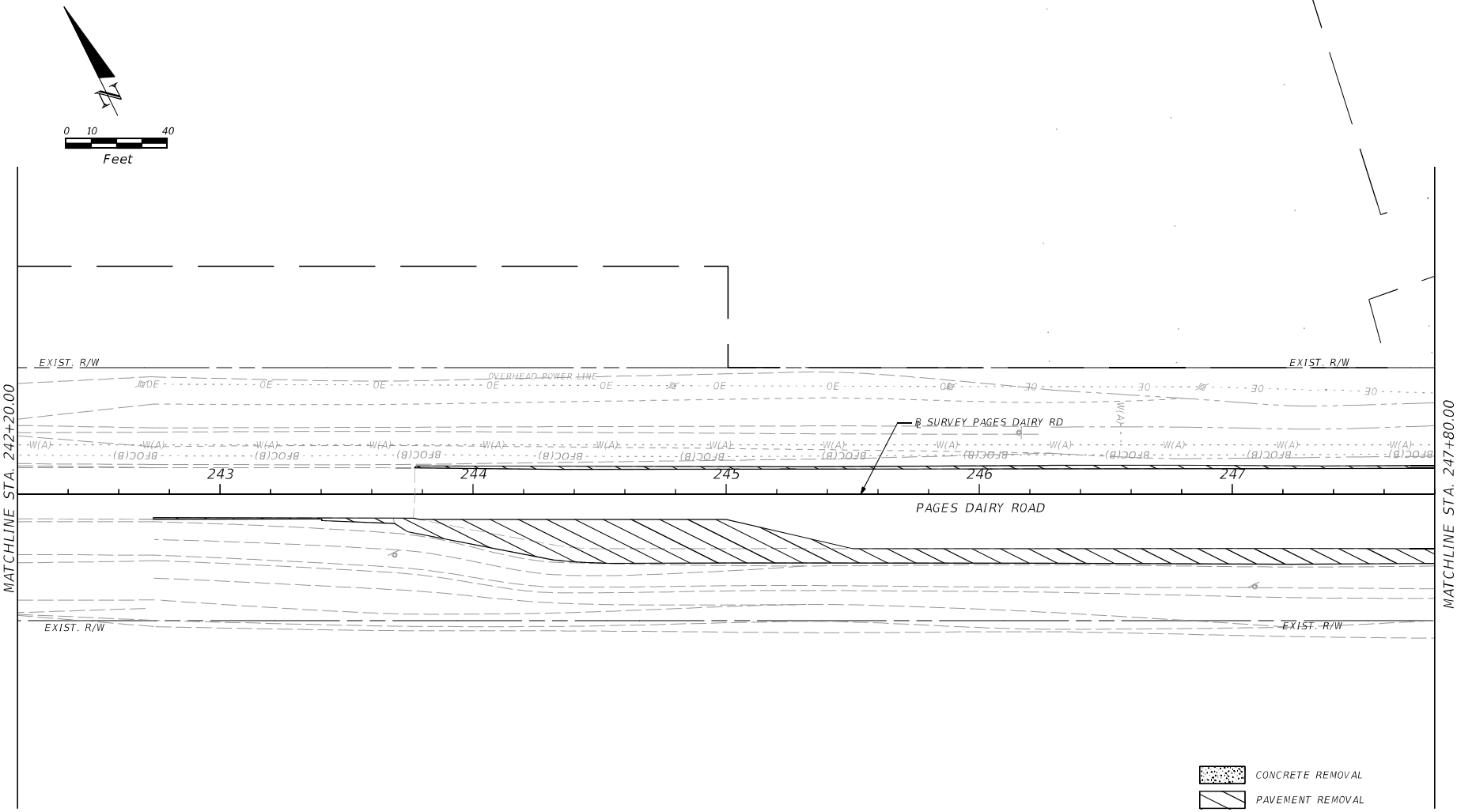

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NASSAU COUNTY ENGINEERING

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	NASSAU	

DEMOLITION SHEET (9)

SHEET NO. 54

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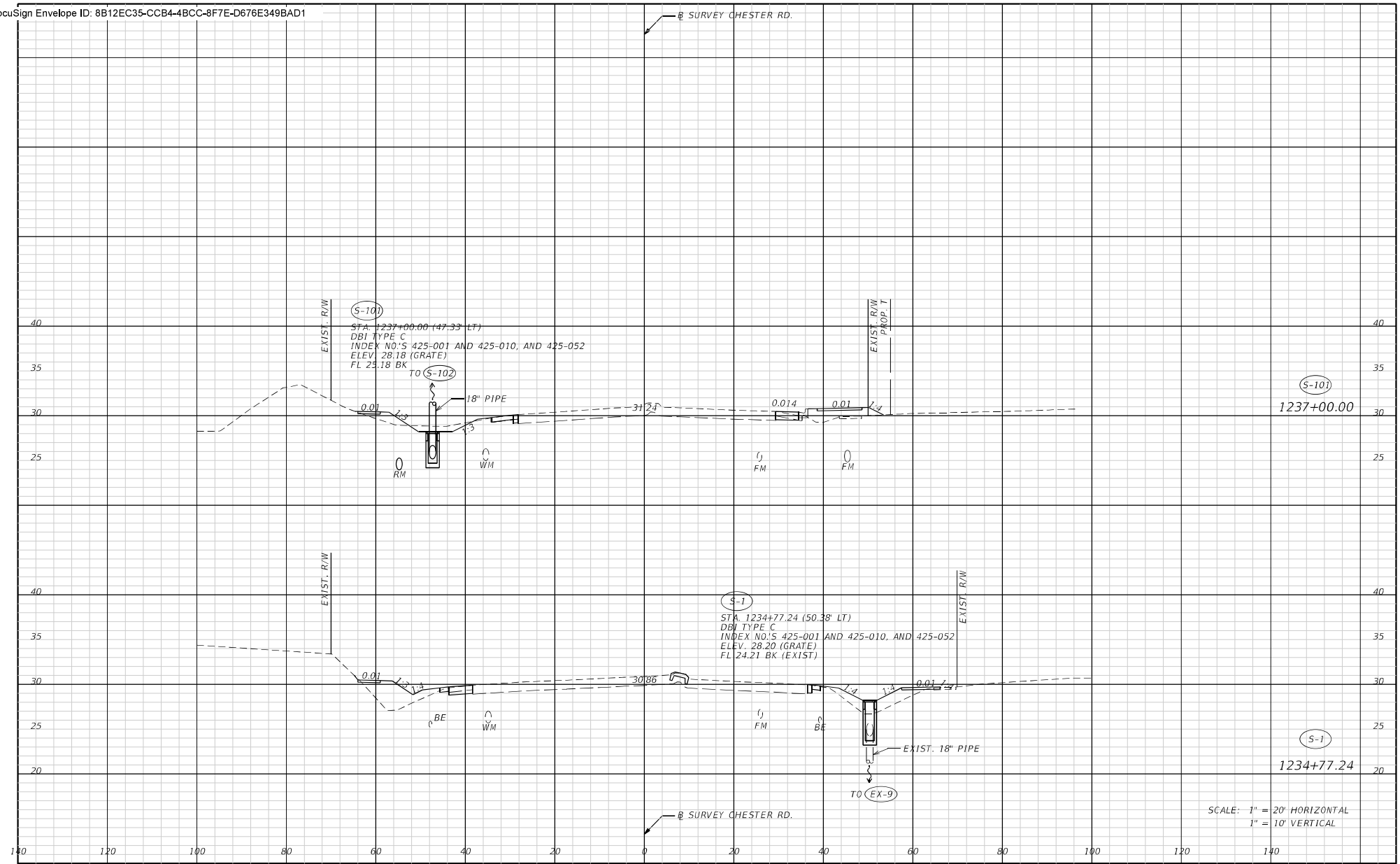

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REVISIONS			
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Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

DRAINAGE STRUCTURES
CHESTER RD

SHEET NO. 55

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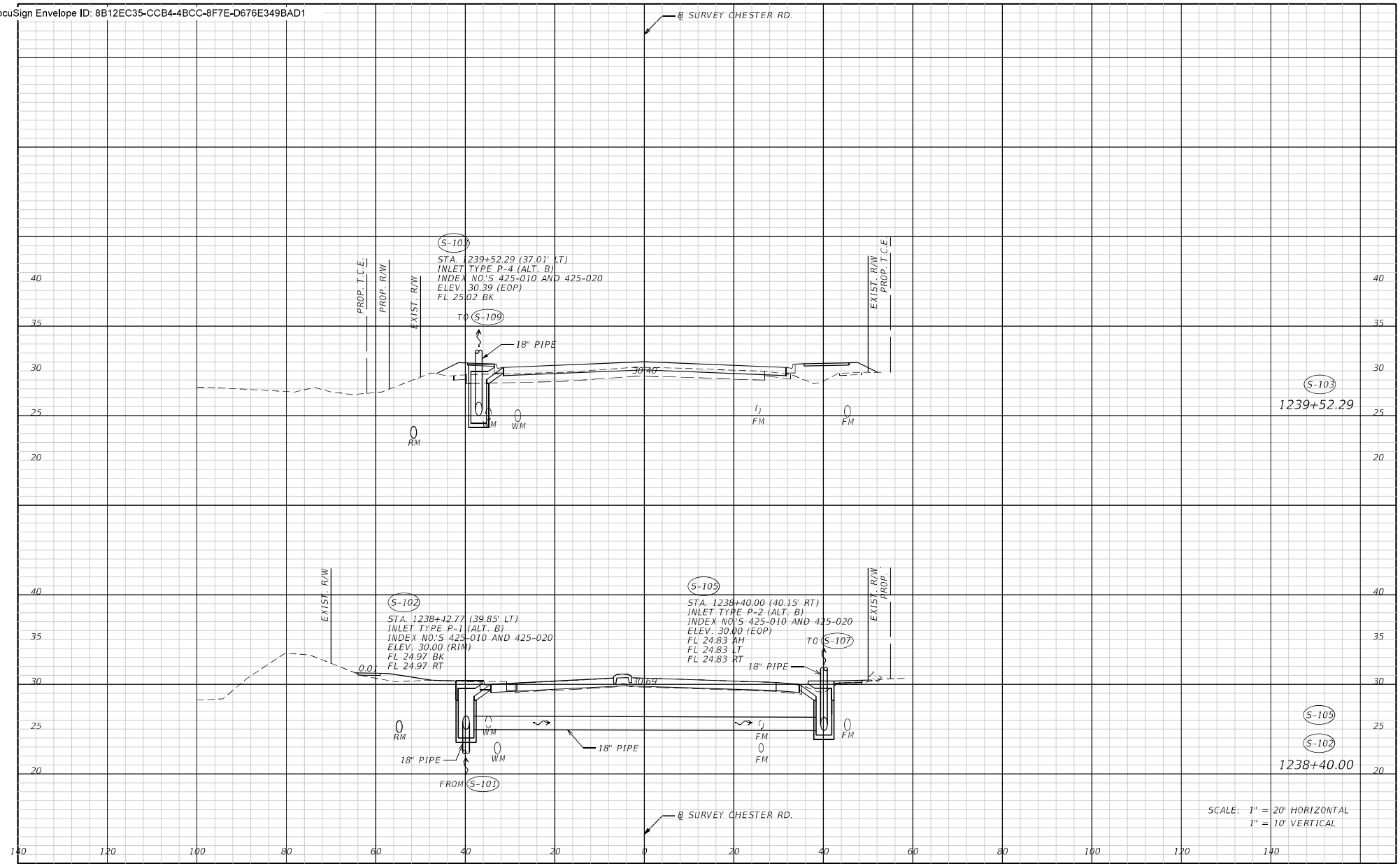

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

DRAINAGE STRUCTURES
CHESTER RD

SHEET NO. 56

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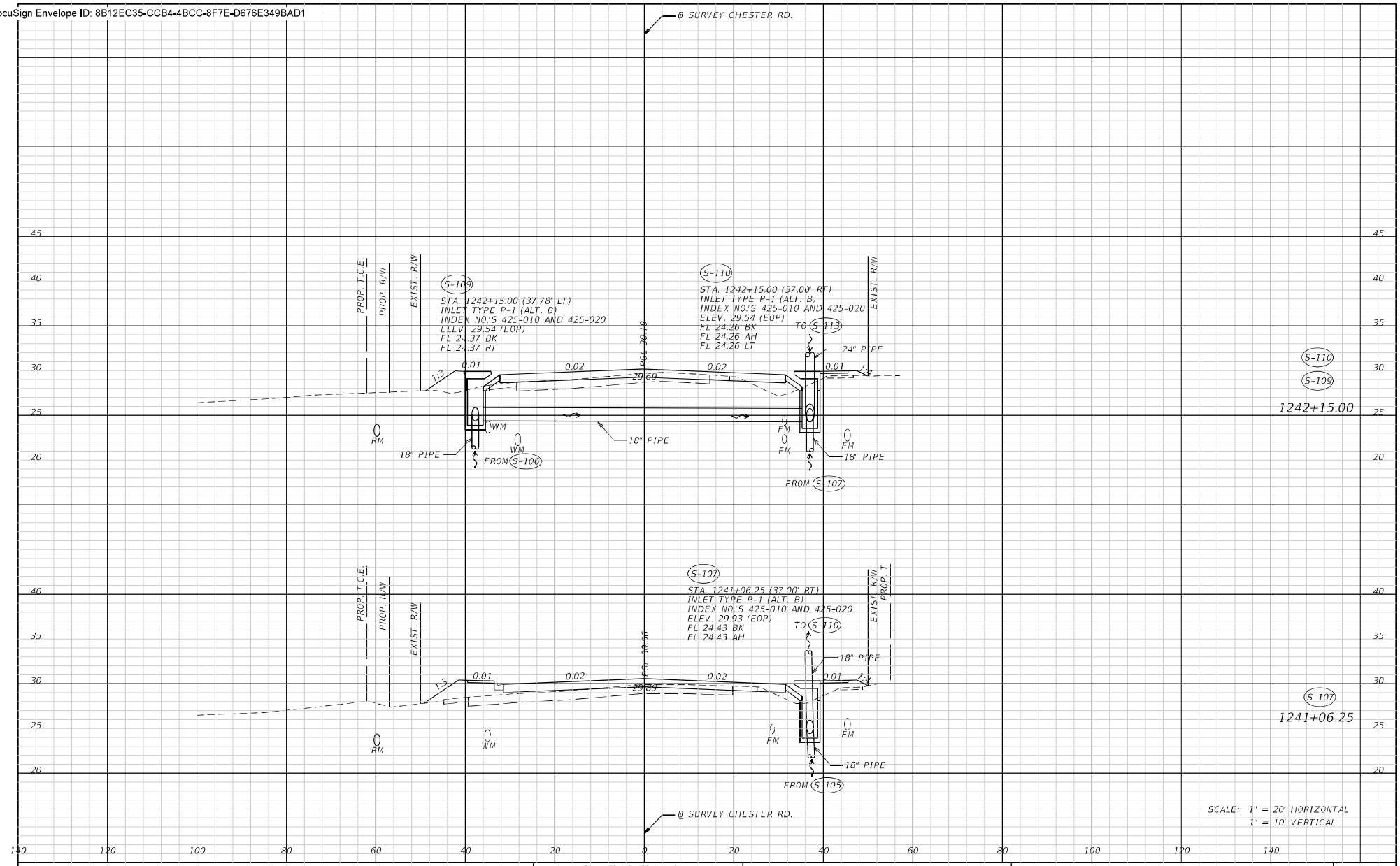

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

DRAINAGE STRUCTURES
CHESTER RD

SHEET NO. 57

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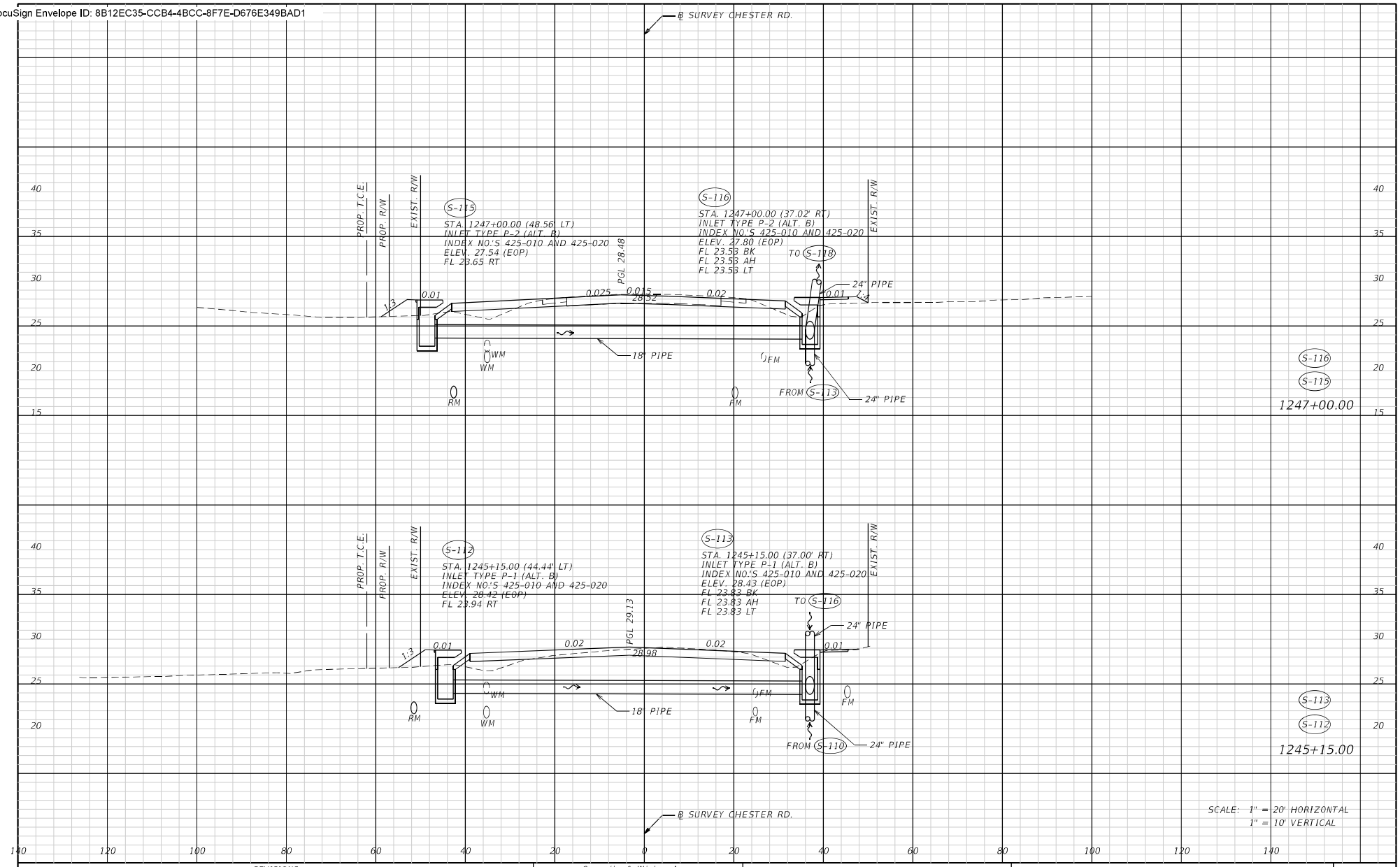

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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DRAINAGE STRUCTURES
CHESTER RD

SHEET NO. 58

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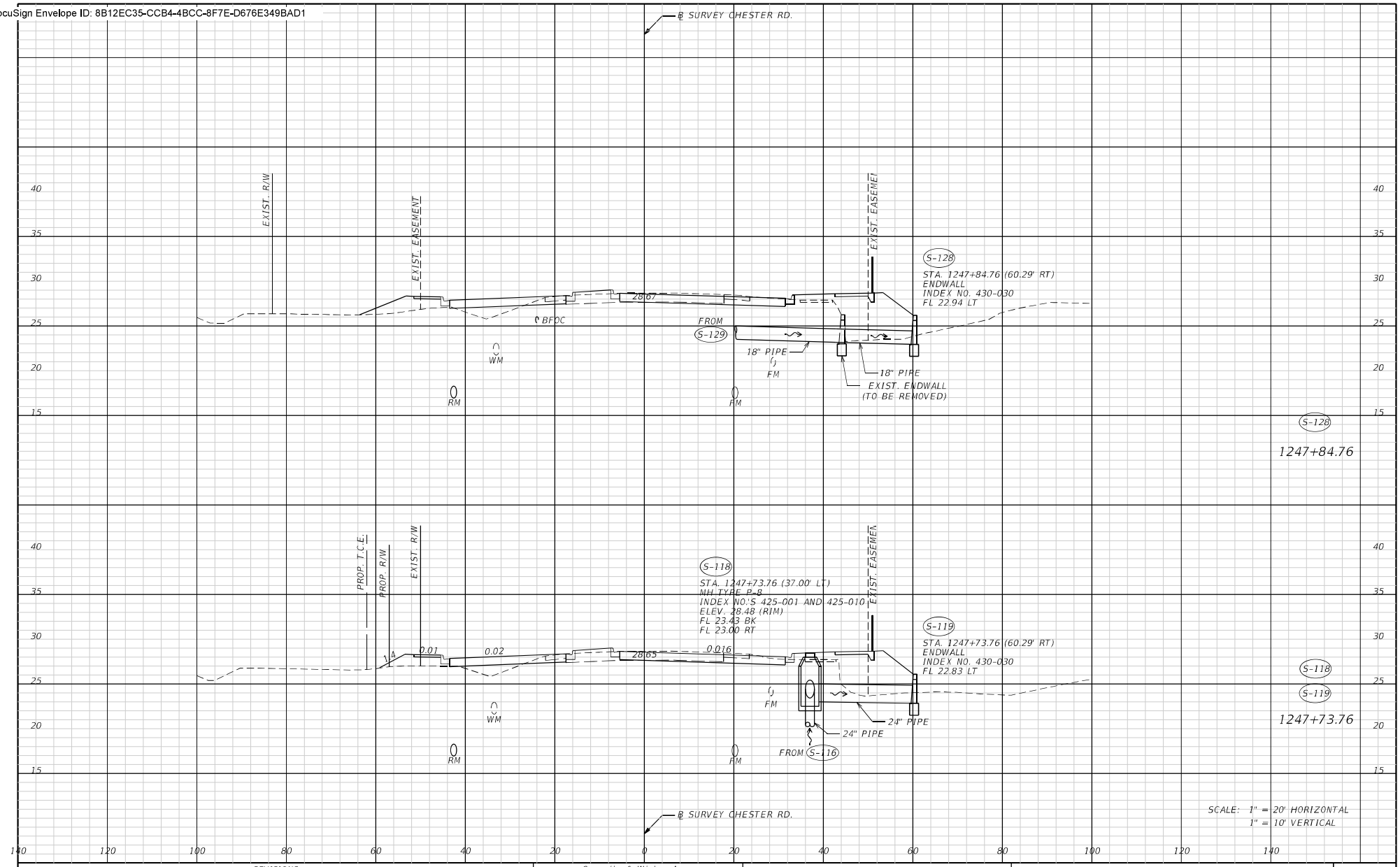

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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DRAINAGE STRUCTURES
CHESTER RD

SHEET NO. 59

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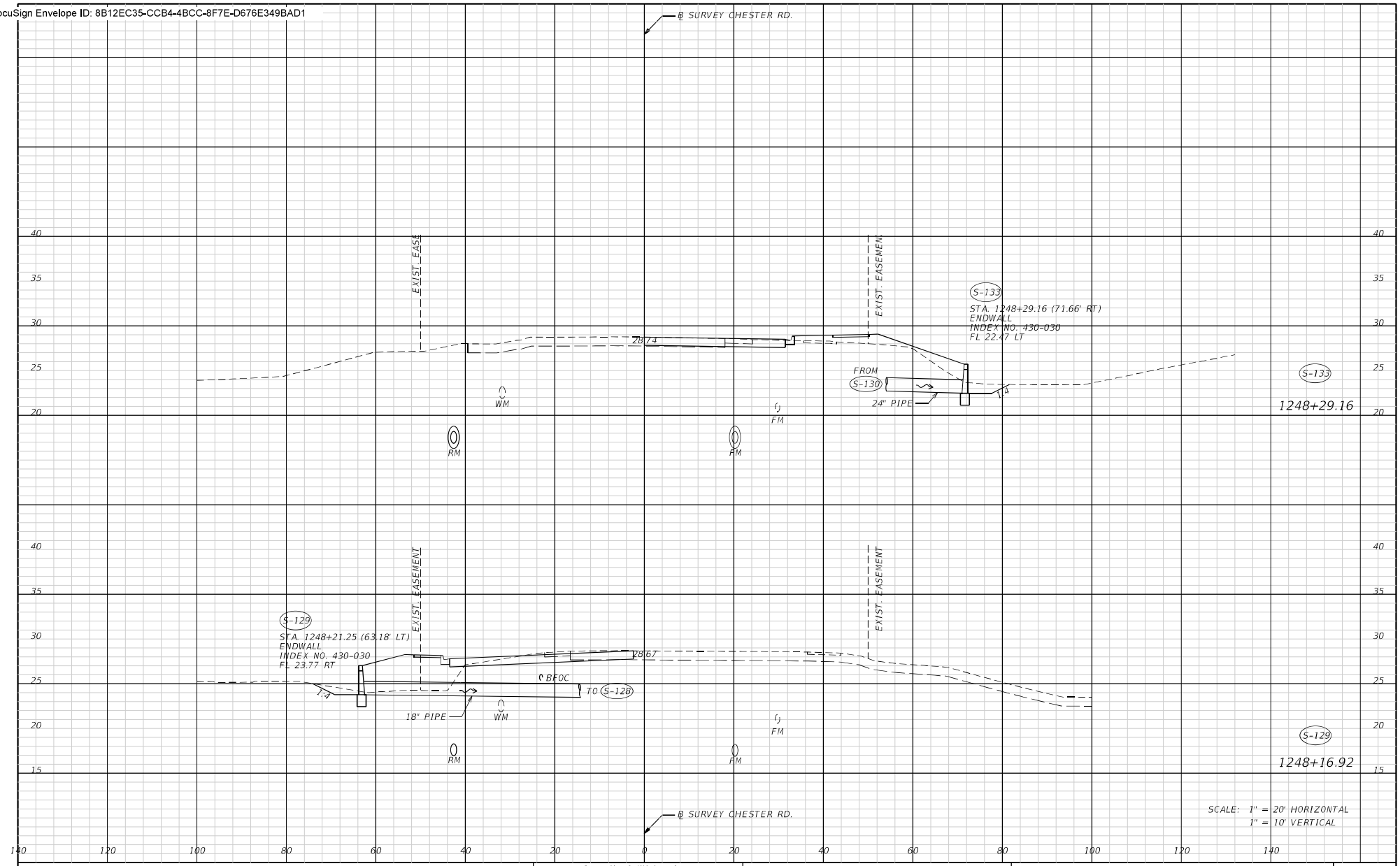

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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DRAINAGE STRUCTURES
CHESTER RD

SHEET NO. 60

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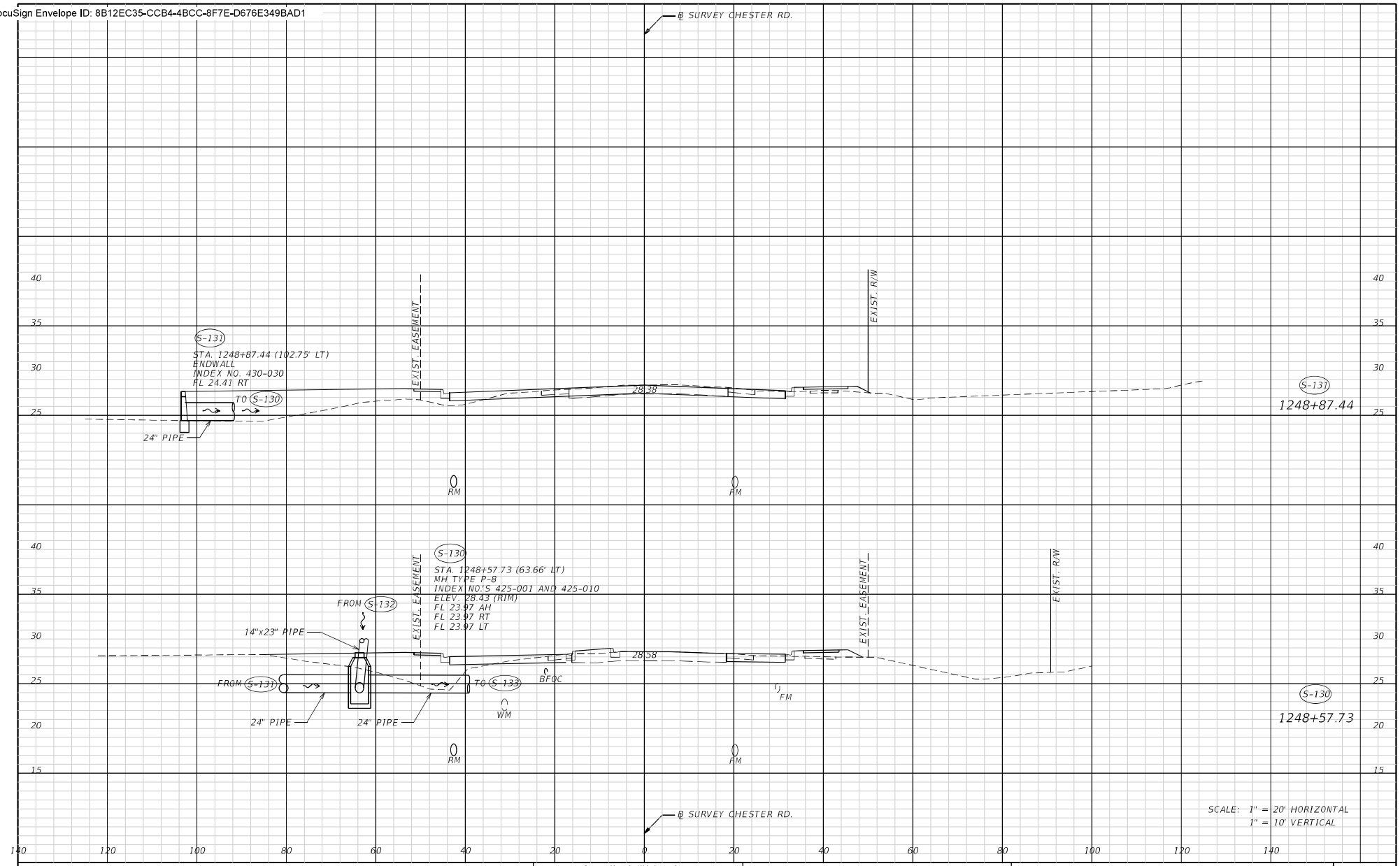

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

DRAINAGE STRUCTURES
CHESTER RD

SHEET NO. 61

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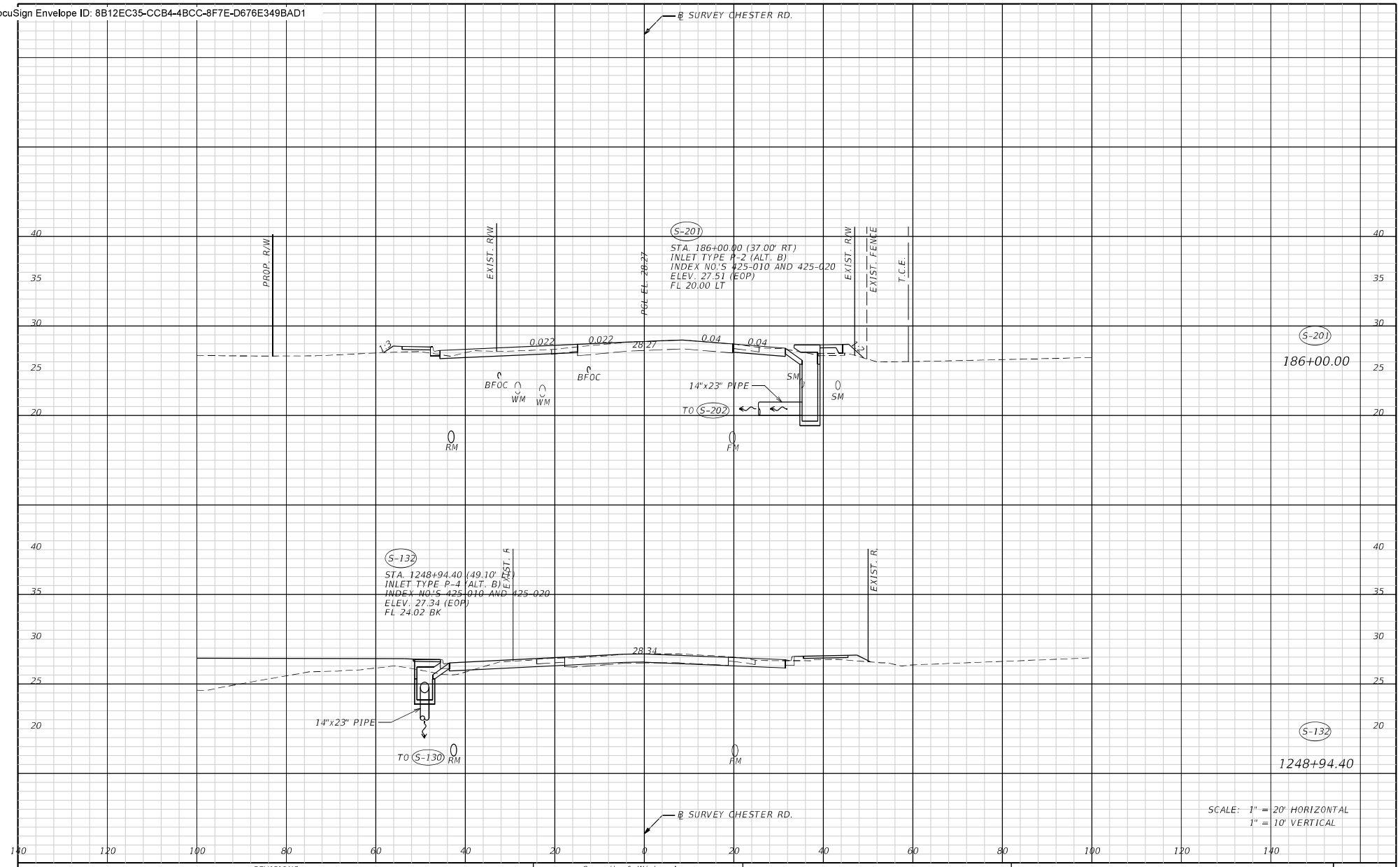

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1" = 10' VERTICAL

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NASSAU COUNTY ENGINEERING

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DRAINAGE STRUCTURES
CHESTER RD

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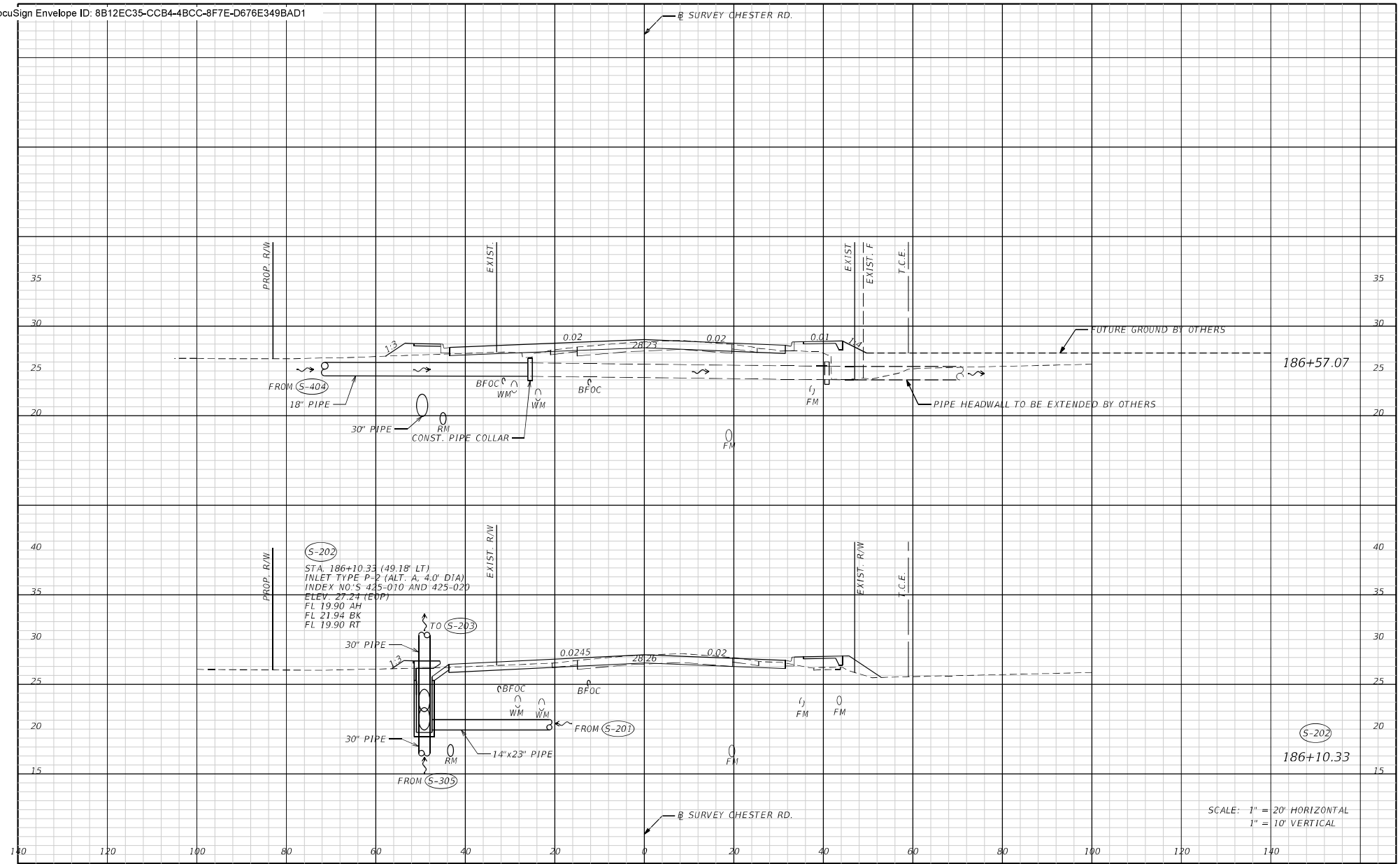

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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DRAINAGE STRUCTURES
CHESTER RD

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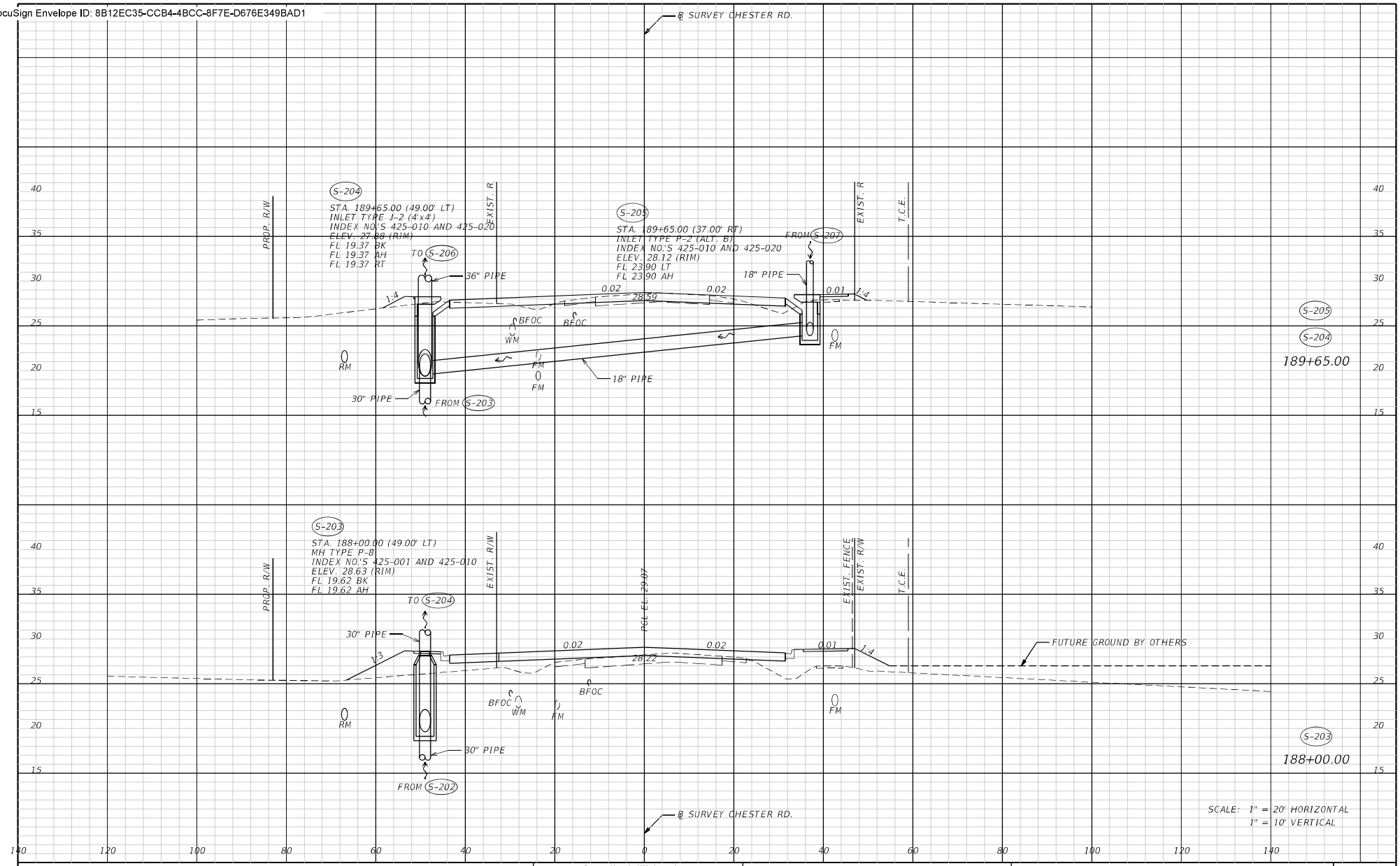

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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DRAINAGE STRUCTURES
CHESTER RD

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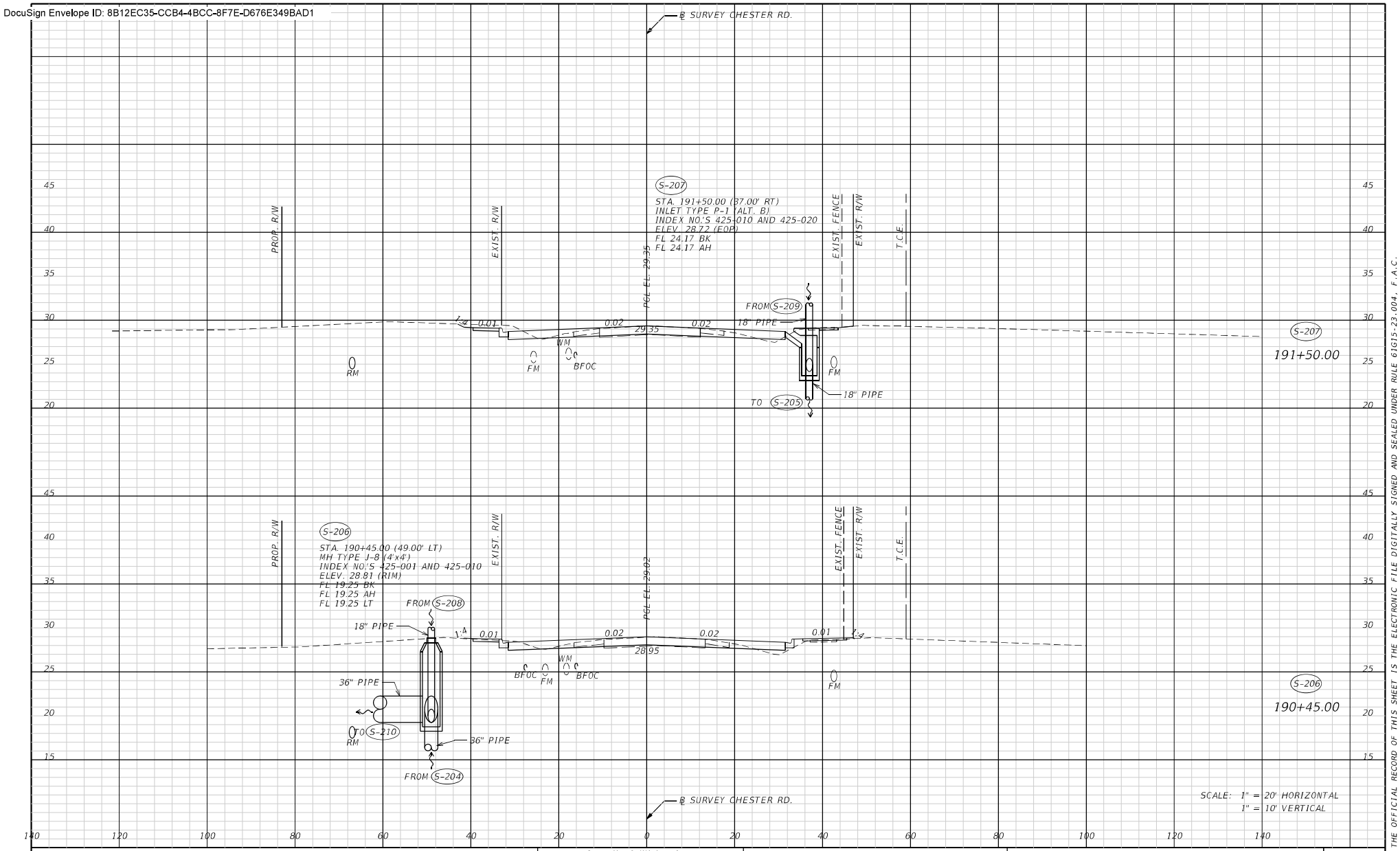

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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DRAINAGE STRUCTURES
CHESTER RD

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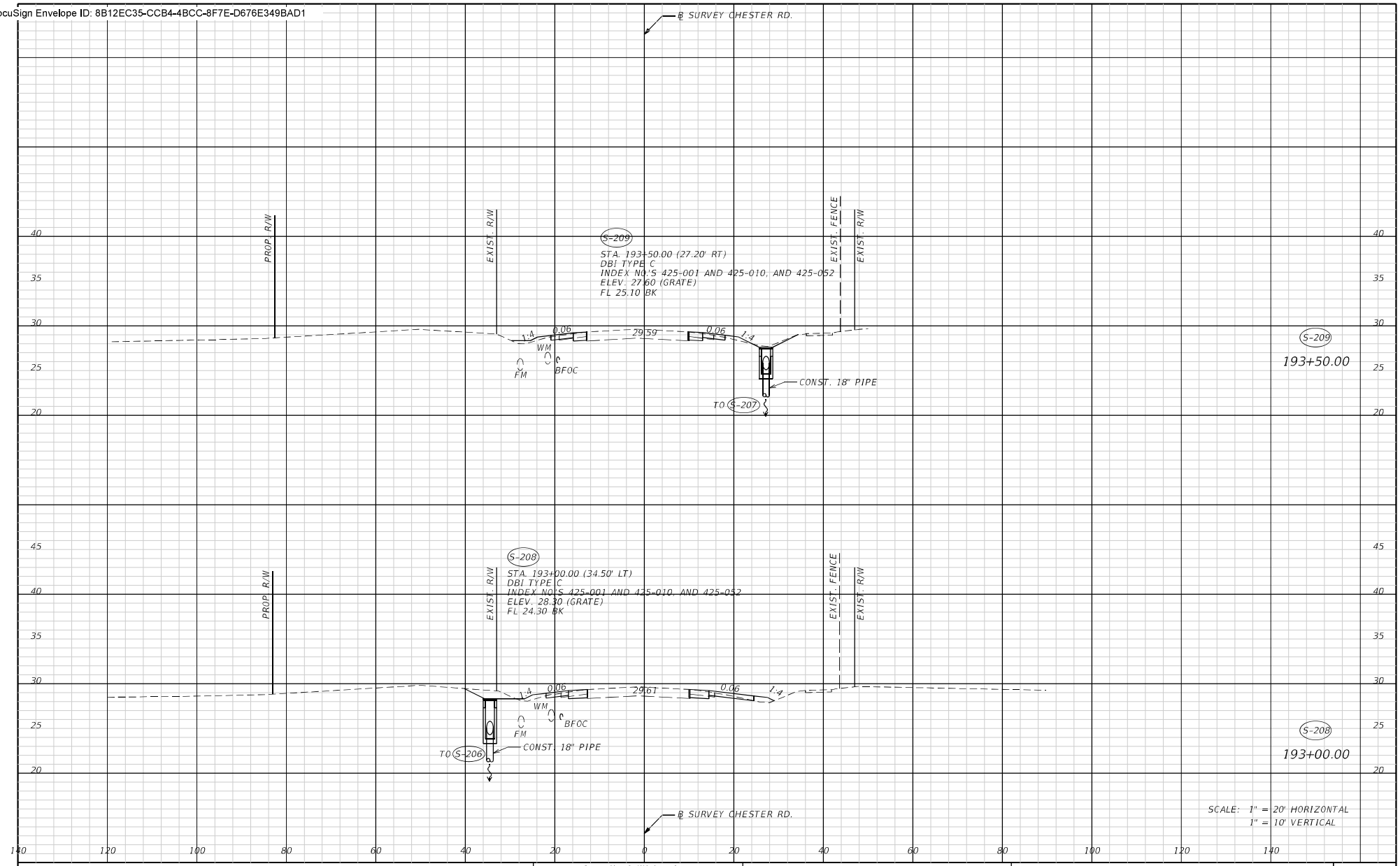

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

DRAINAGE STRUCTURES
CHESTER RD

SHEET NO. 66

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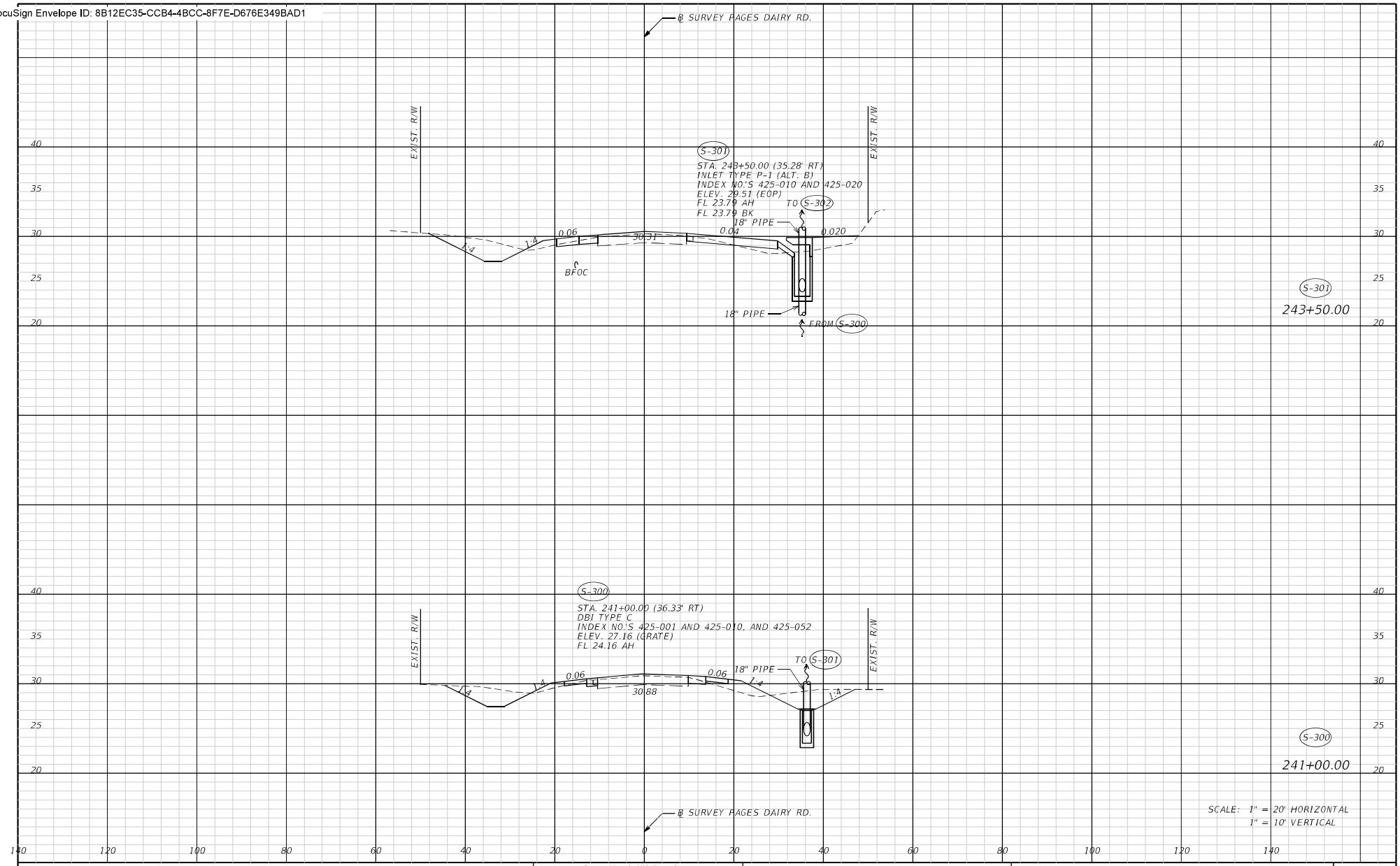

S-301
243+50.00

S-300
241+00.00

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

DRAINAGE STRUCTURES
PAGES DAIRY RD

SHEET NO. 67

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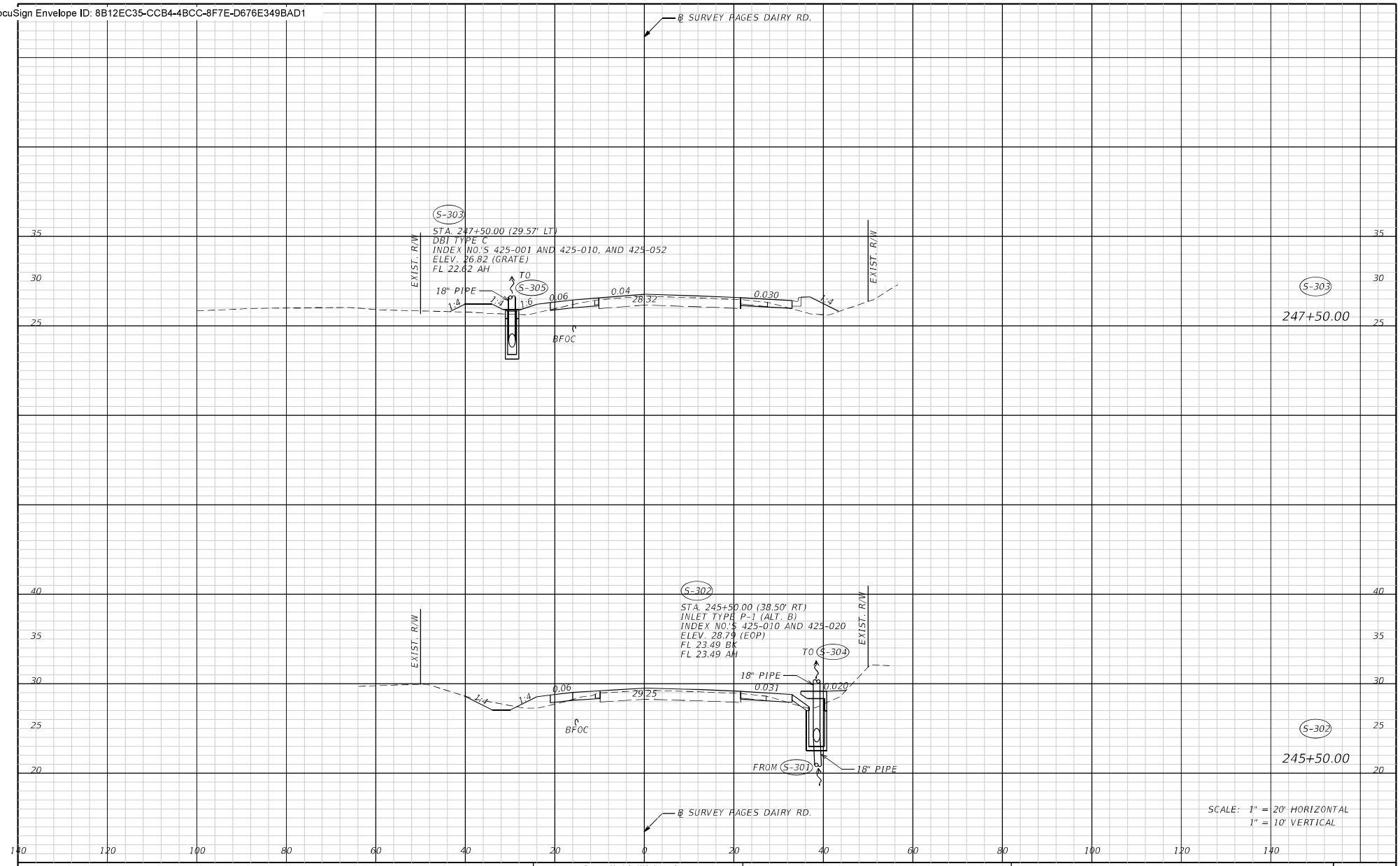

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

DRAINAGE STRUCTURES
PAGES DAIRY RD

SHEET NO. 68

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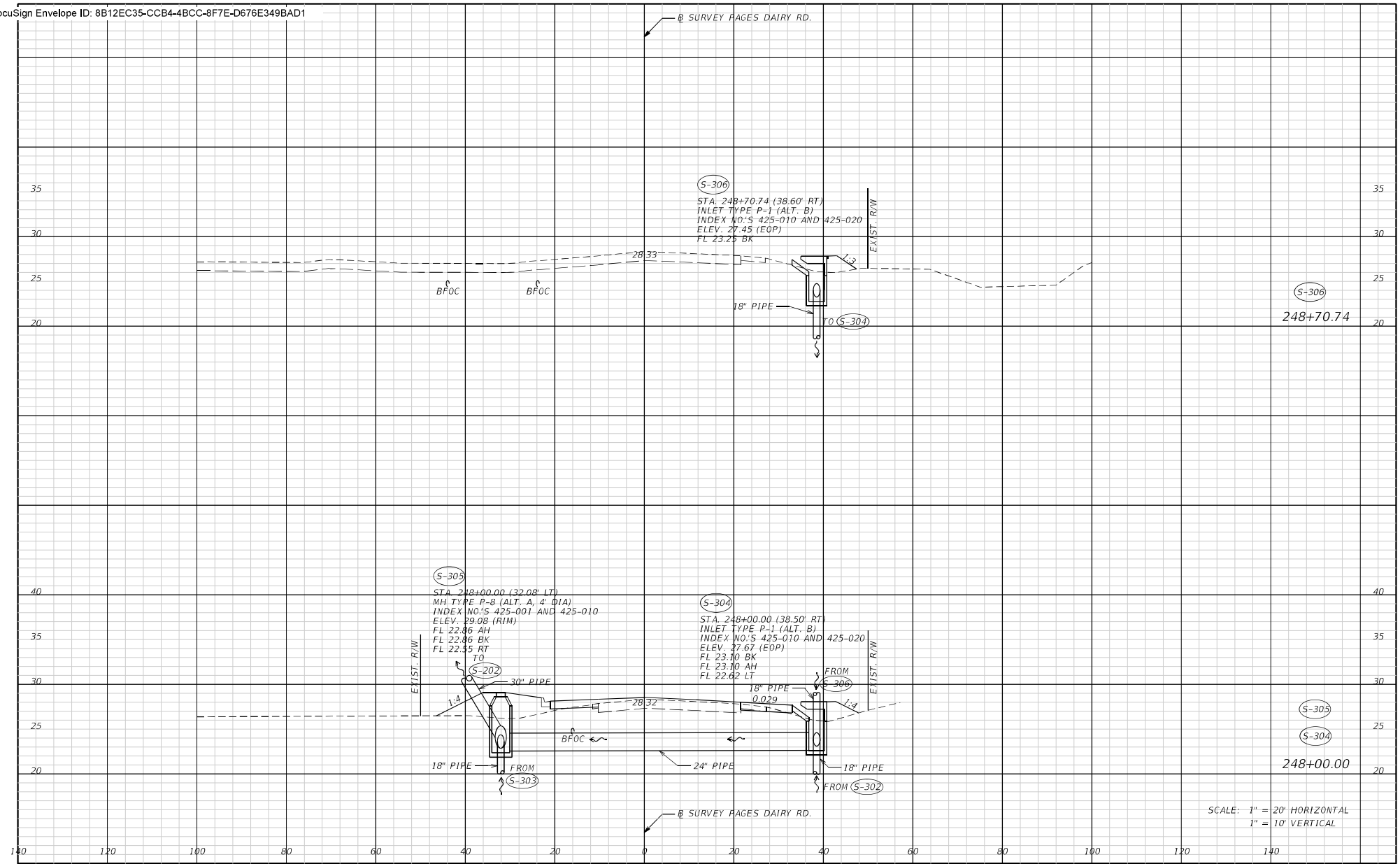

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

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NASSAU COUNTY ENGINEERING

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DRAINAGE STRUCTURES
PAGES DAIRY RD

SHEET NO. 69

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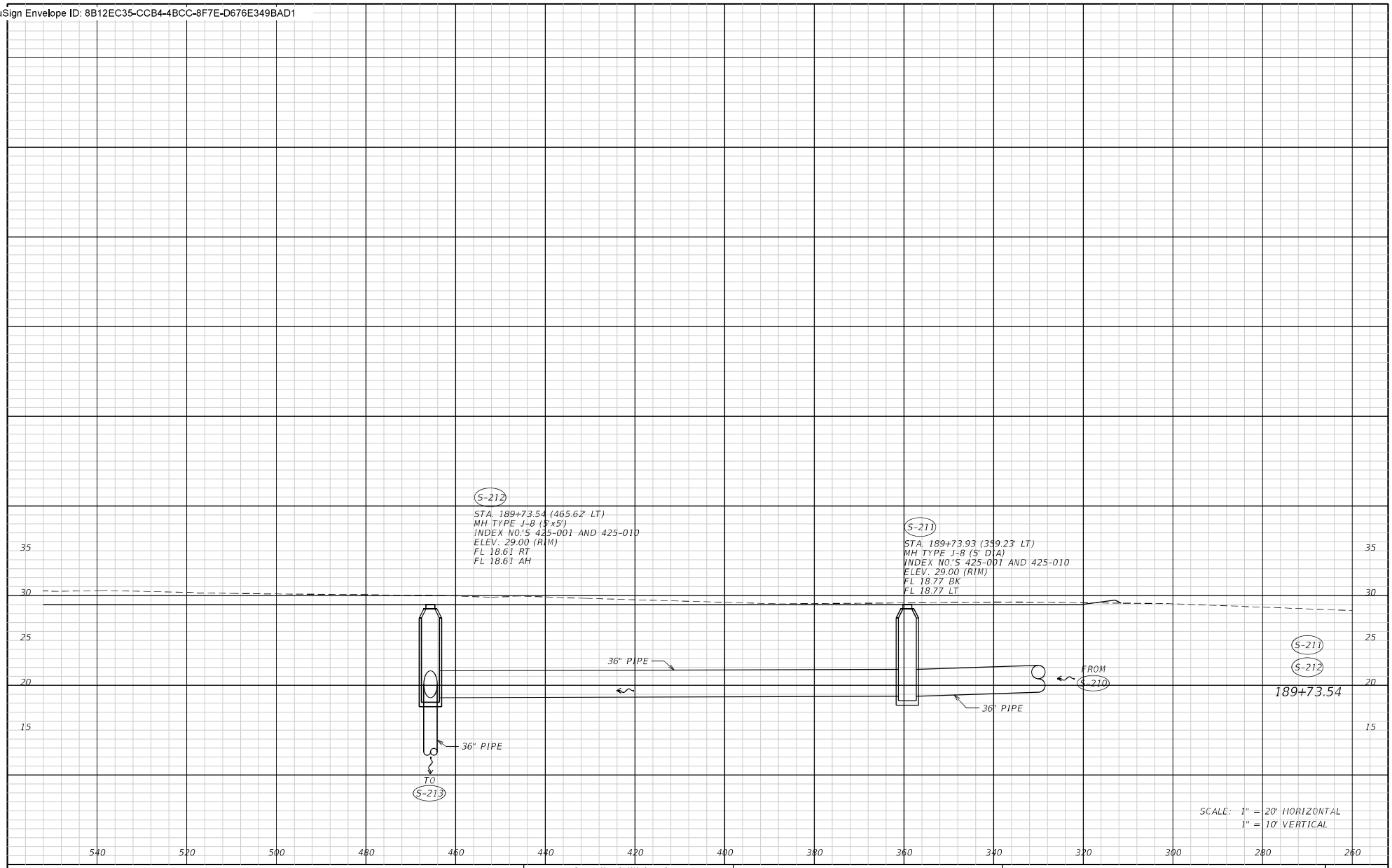

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

DRAINAGE STRUCTURES
CHESTER RD

SHEET NO. 70

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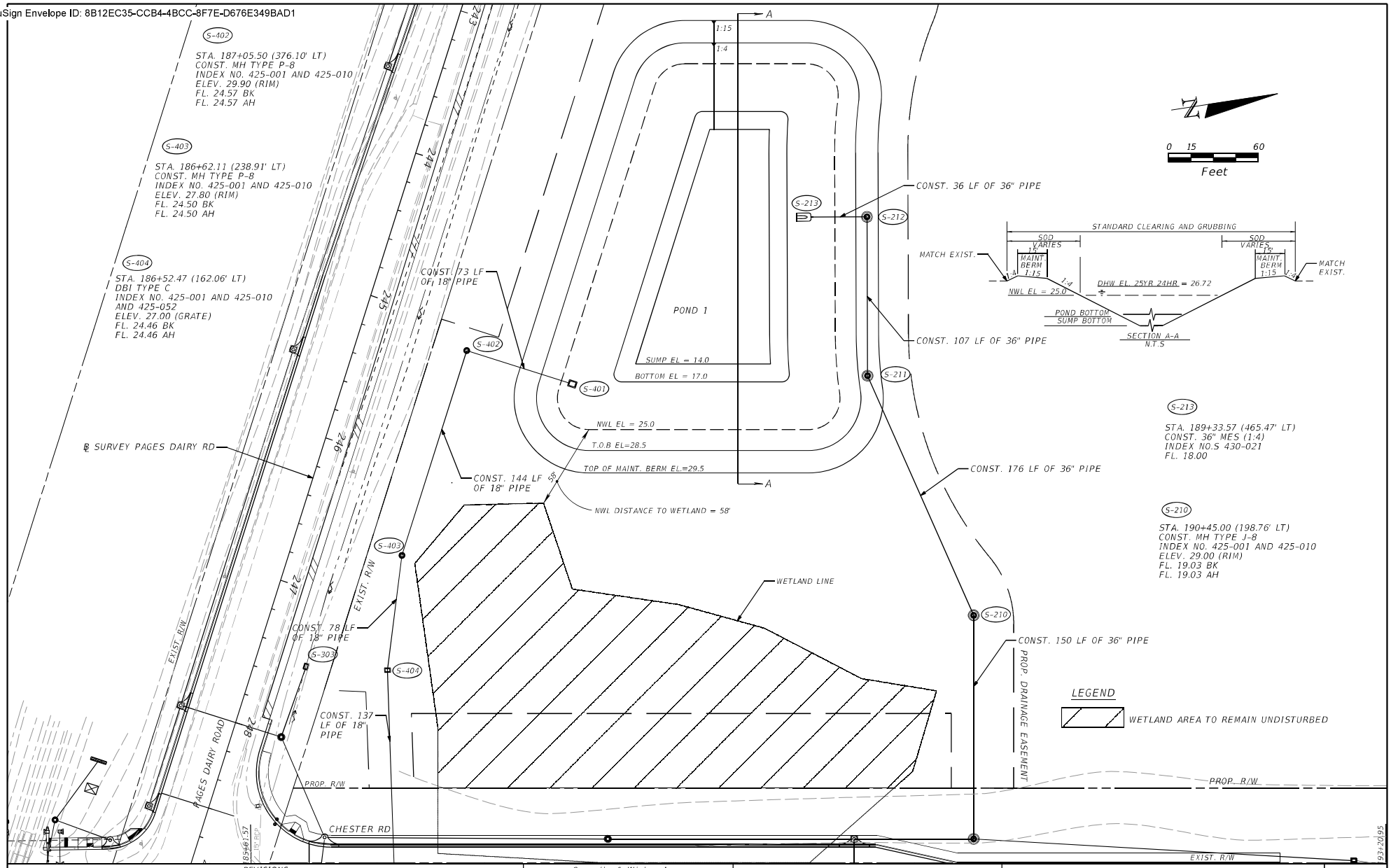

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

POND PLAN

SHEET NO. 71

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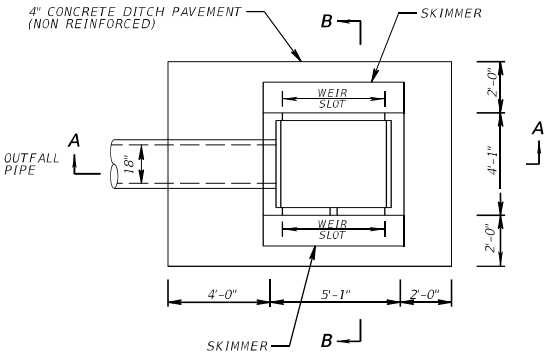
NOTE: SEE SPECIAL DETAIL FOR SKIMMER DESIGN



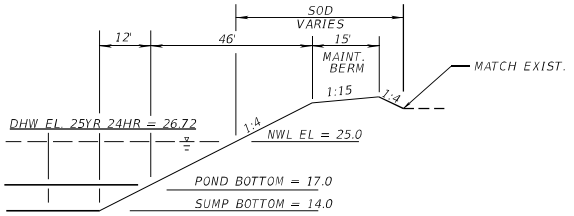
PLAN VIEW
1" = 5'

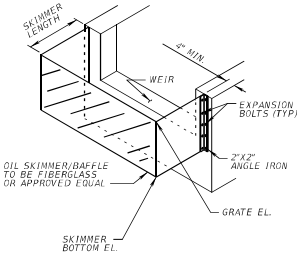
INLET GRATE NOT SHOWN FOR CLARITY

POND CONTROL DETAIL TABLE

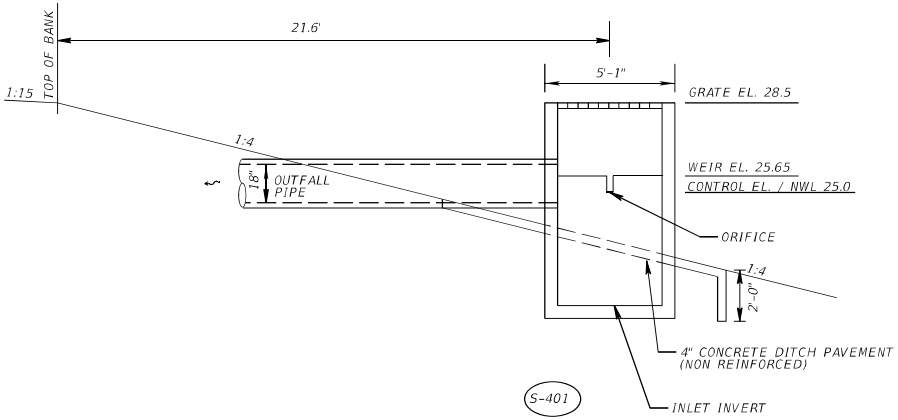
	STRUC. NO.	STATION	OFFSET	INLET TYPE	GRATE ELEV. (FT NGVD)	WEIR ELEV. (FT NGVD)	CONTROL ELEV. (FT NGVD)	OUTFALL PIPE F.L. (FT NGVD)	INLET INVERT (FT NGVD)	WEIR SLOT WIDTH (INCH)	OUTFALL PIPE DIA. (INCH)	ORIFICE DIMENSIONS (INCHES)	ORIFICE AREA (SQ. IN)	SKIMMER HEIGHT (INCH)
P	S-401	187+76.2	353.7' LT	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



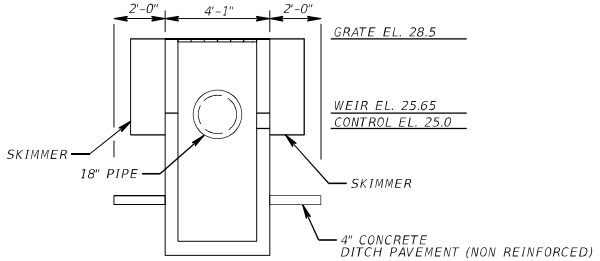


OIL SKIMMER/ BAFFLE DETAIL



S-401

SECTION A - A
1" = 5'



SECTION B - B
1" = 5'

REVISIONS			
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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

POND DETAILS

SHEET NO. 72

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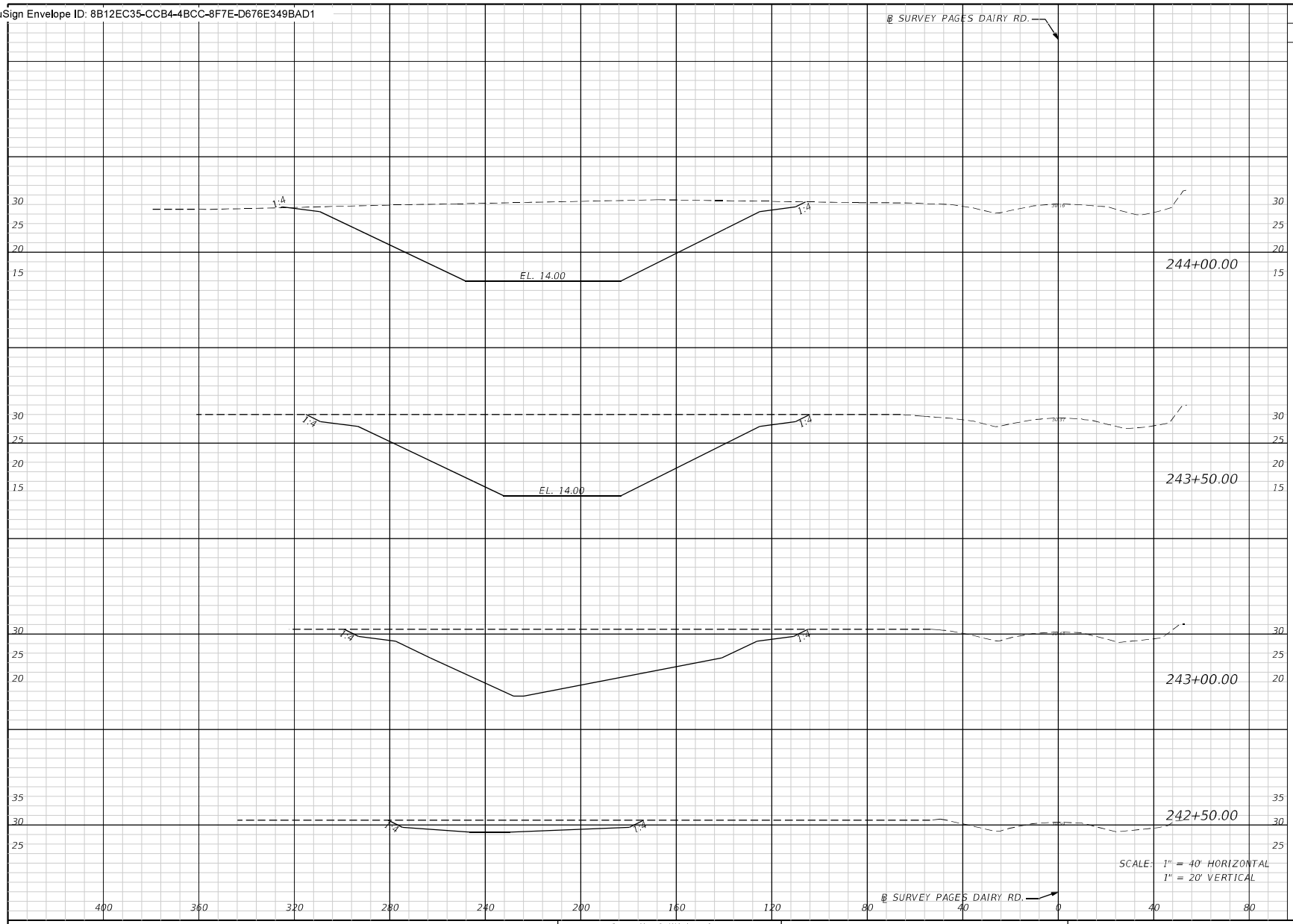

	Regular Exc.		Embankment	
	A	V	A	V
244+00.00	2197	3949	0	0
243+50.00	2069	3243	0	0
243+00.00	1434	1520	0	0
242+50.00	208	0	0	0

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

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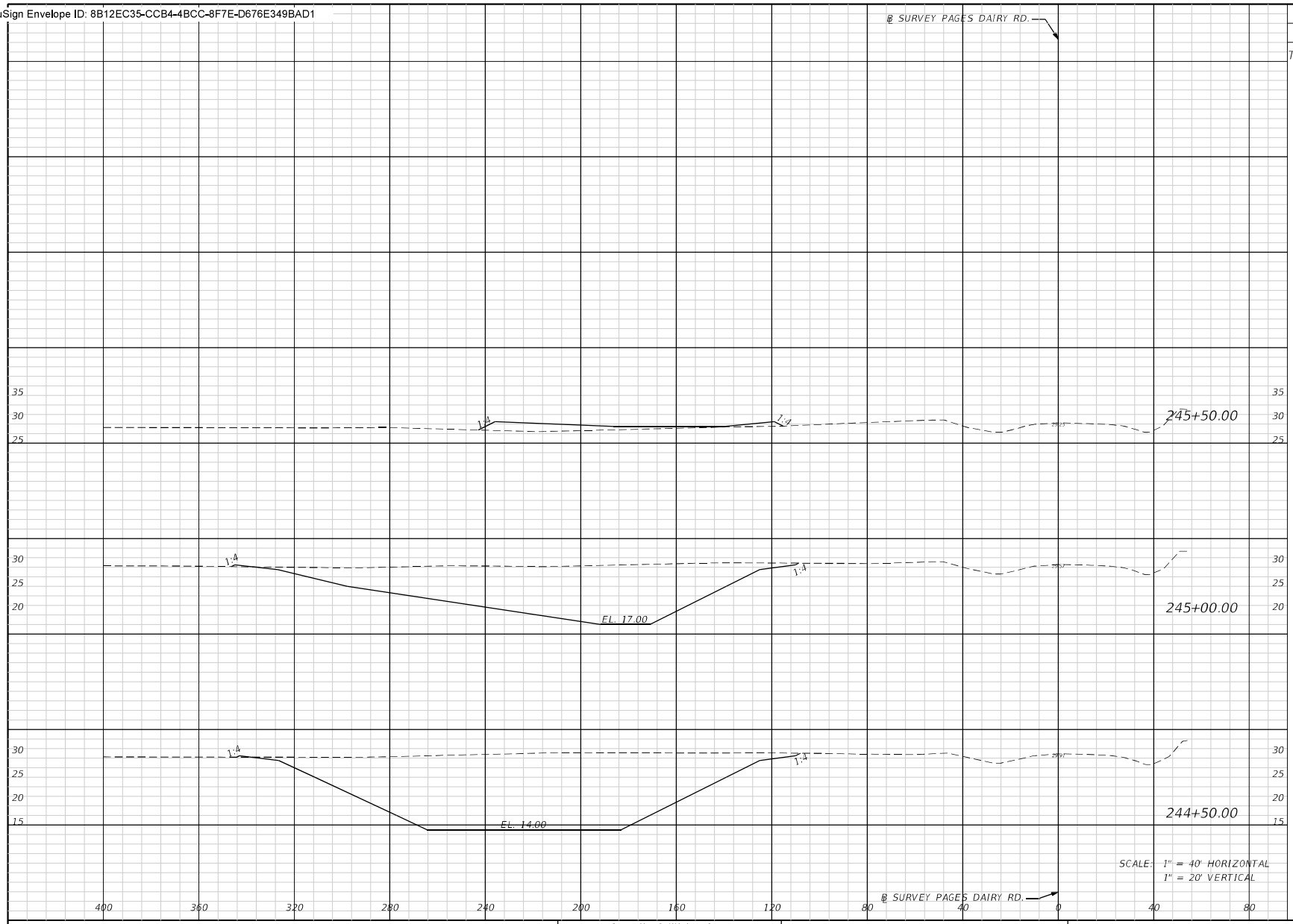

	Regular Exc.		Embankment	
	A	V	A	V
TOTAL :		17880	TOTAL :	107
245+50.00	0	1417	110	104
245+00.00	1530	3567	2	2
244+50.00	2322	4184	1	1

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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	

POND CROSS SECTIONS

SHEET NO. 74

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1

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

twebb 11/20/2020 10:40:29 AM G:\Teresa Webb\PROFILES\00-2020 PROFILES\0930.2000217.0000-PAGES DAIRY ROAD & C

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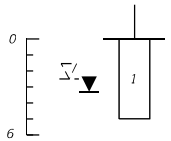
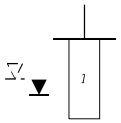
STA. 237+90 CHESTER RD BL SURVEY
OFF. 45' LT
DATE 11/8/2017
DRILLER S. TORRES



STA. 237+90 CHESTER RD BL SURVEY
OFF. 45' RT
DATE 11/8/2017
DRILLER S. TORRES



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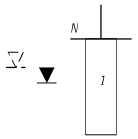
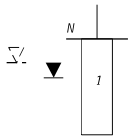
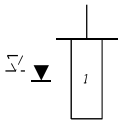
OFF. 33' LT
DATE 11/5/20
DRILLER B. TRUITT



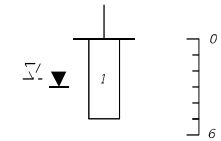
STA. 242+67 CHESTER RD BL SURVEY
OFF. 33' RT
DATE 11/5/20
DRILLER B. TRUITT



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



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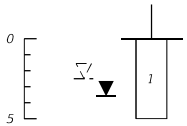
OFF. 25' LT
DATE 11/8/2017
DRILLER S. TORRES



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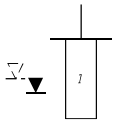
OFF. 25' RT
DATE 11/8/2017
DRILLER S. TORRES



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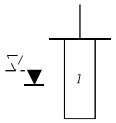
DRILLER S. TORRES



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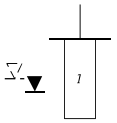
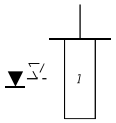
DATE 11/8/2017
DRILLER S. TORRES



STA. 244+70 PAGES DAIRY BL SURVEY
OFF. 13' LT
DATE 11/17/2017
DRILLER S. TORRES



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DATE 11/17/2017
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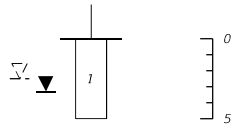

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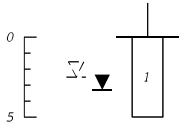
OFF. 13' LT
DATE 11/17/2017
DRILLER S. TORRES



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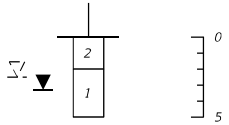
OFF. 13' RT
DATE 11/17/2017
DRILLER S. TORRES



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

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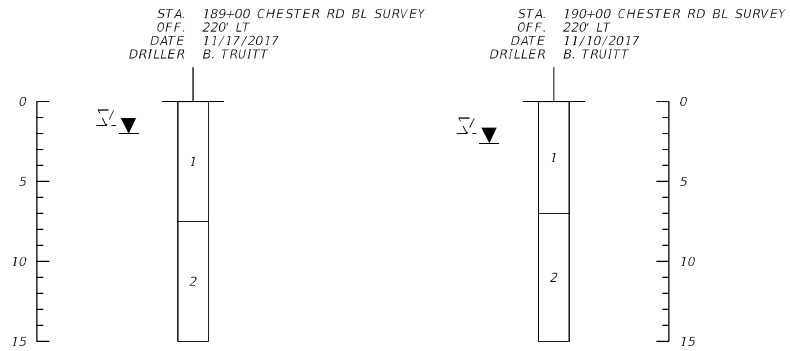

LEGEND

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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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. 77

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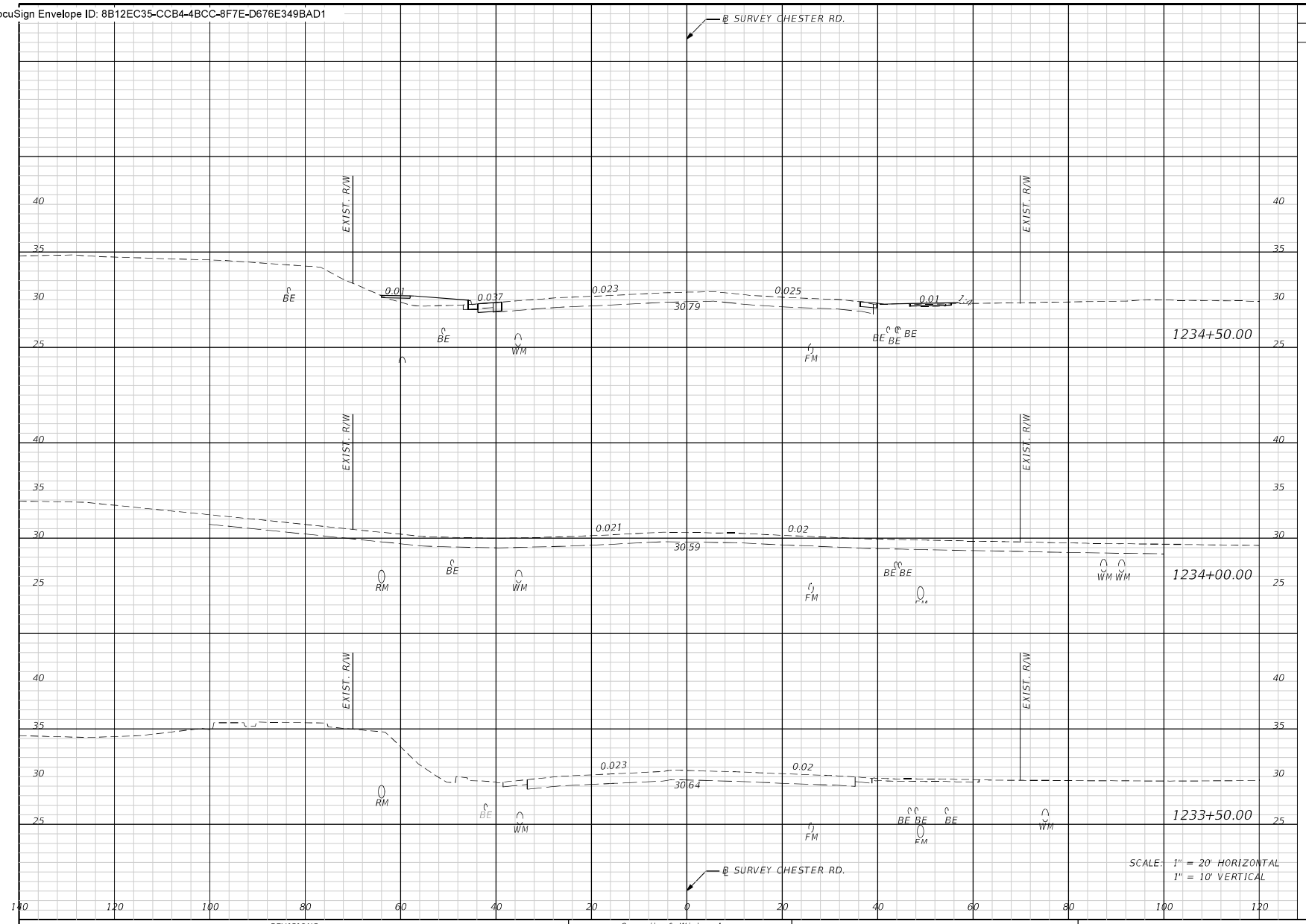

Regular Exc.		Embankment	
A	V	A	V
9	0	12	0
0	0	0	0
0	0	0	0

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	

CROSS SECTIONS

SHEET NO. 78

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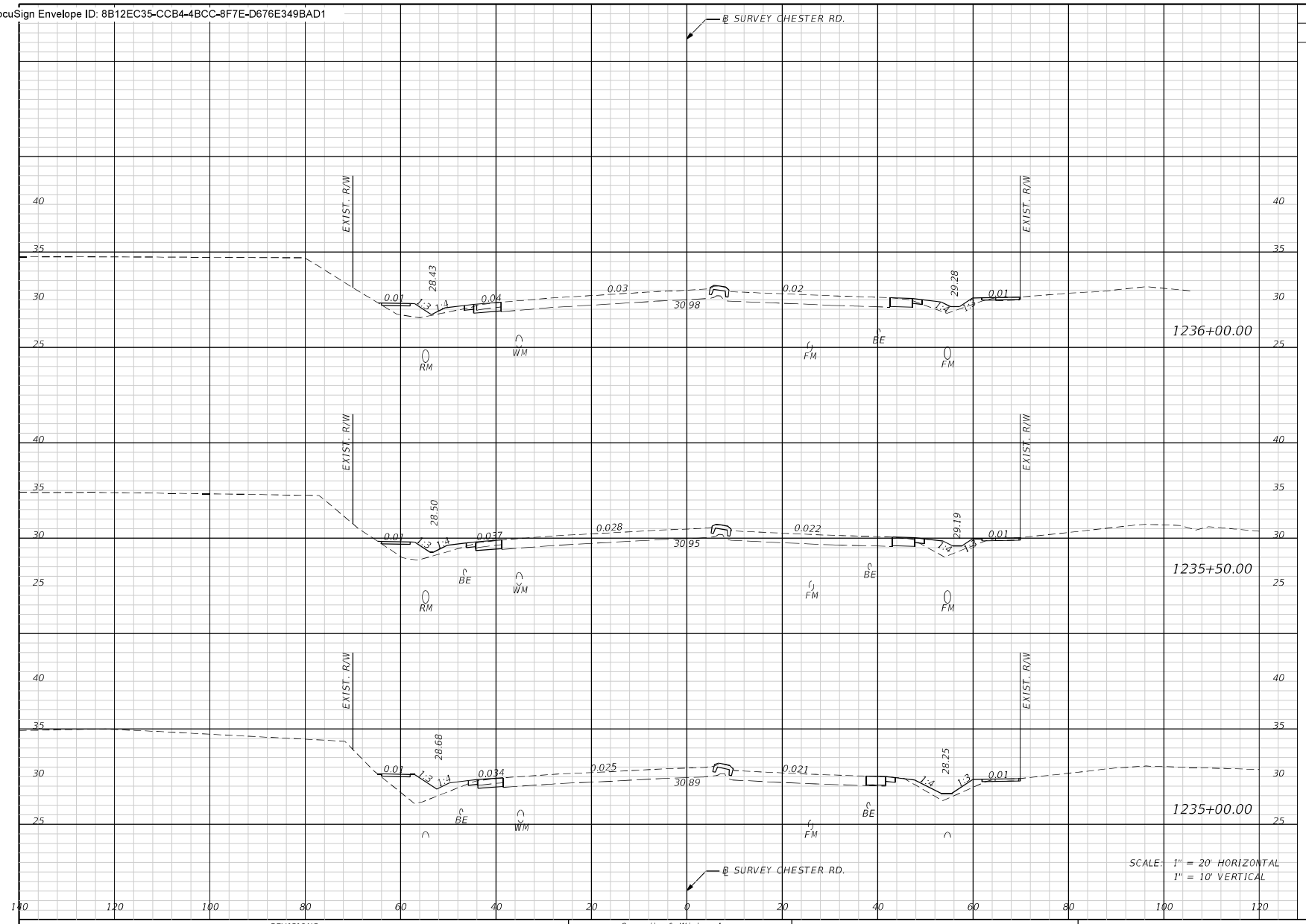

Regular Exc.		Embankment	
A	V	A	V
11	20	19	41
11	20	26	55
11	19	35	42

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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. 79

Danny 12/14/2023 8:16:46 AM J:\Transportation\Projects\17-01-0202_ChesterInt\roadway\RDXSRD01.DGN

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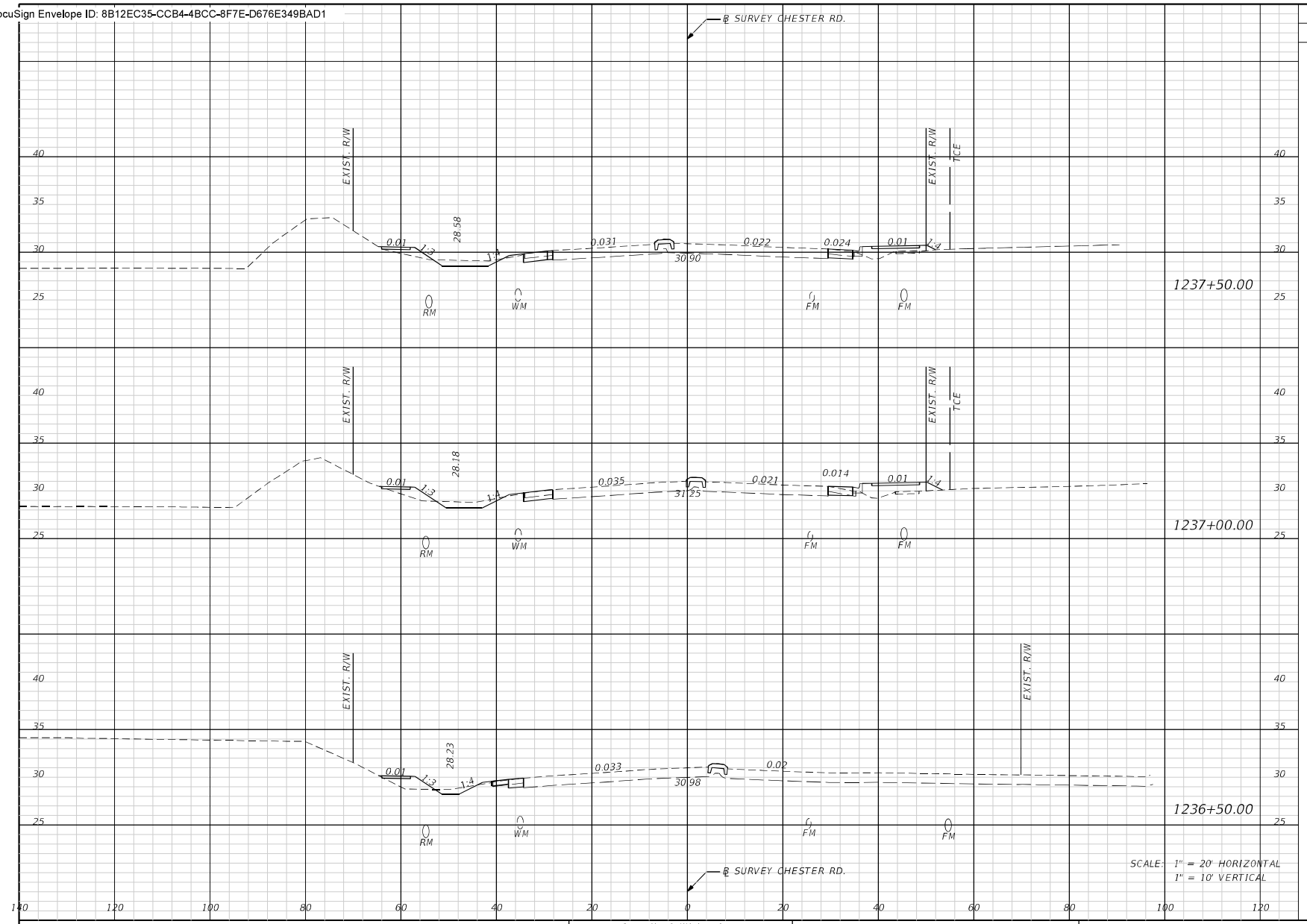

Regular Exc.		Embankment	
A	V	A	V
17	32	14	33
17	23	21	27
8	17	8	25

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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

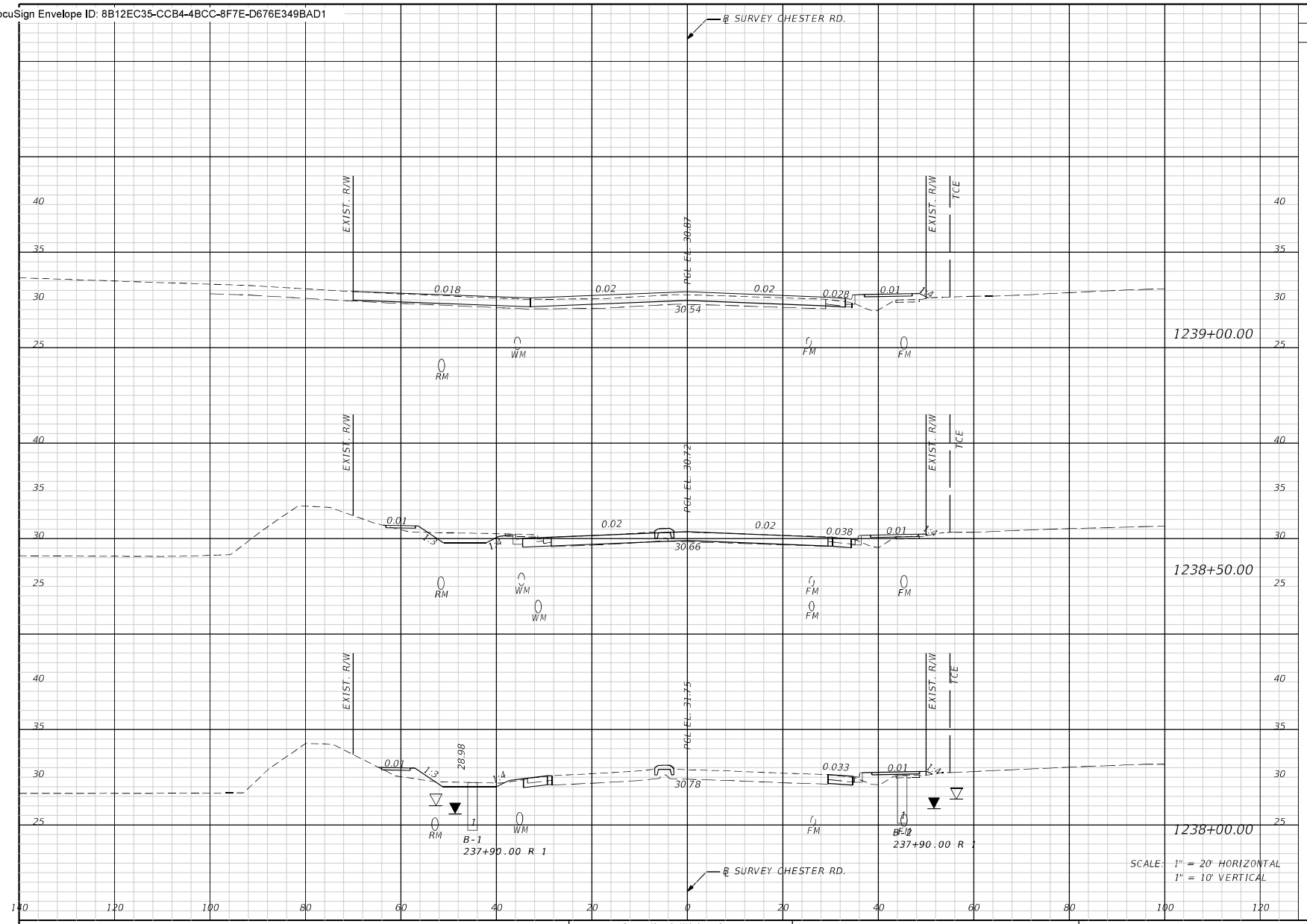
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

CROSS SECTIONS

SHEET NO. 80

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1



SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

Regular Exc.		Embankment	
A	V	A	V
73	144	12	19
83	92	8	20
17	31	14	26

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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

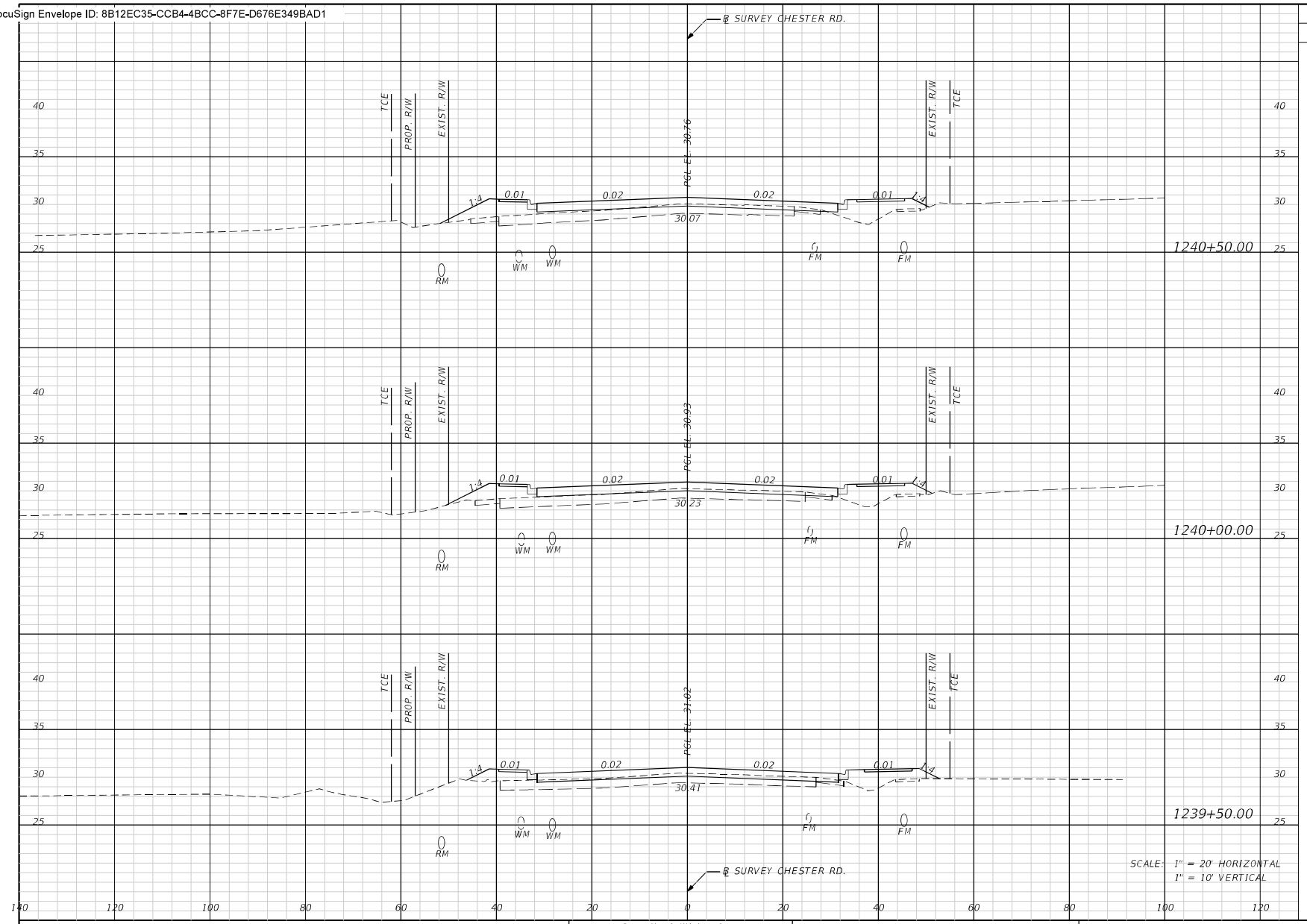
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

CROSS SECTIONS

SHEET NO. 81

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1



Regular Exc.		Embankment	
A	V	A	V
11	20	52	88
11	27	43	72
18	84	34	43

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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

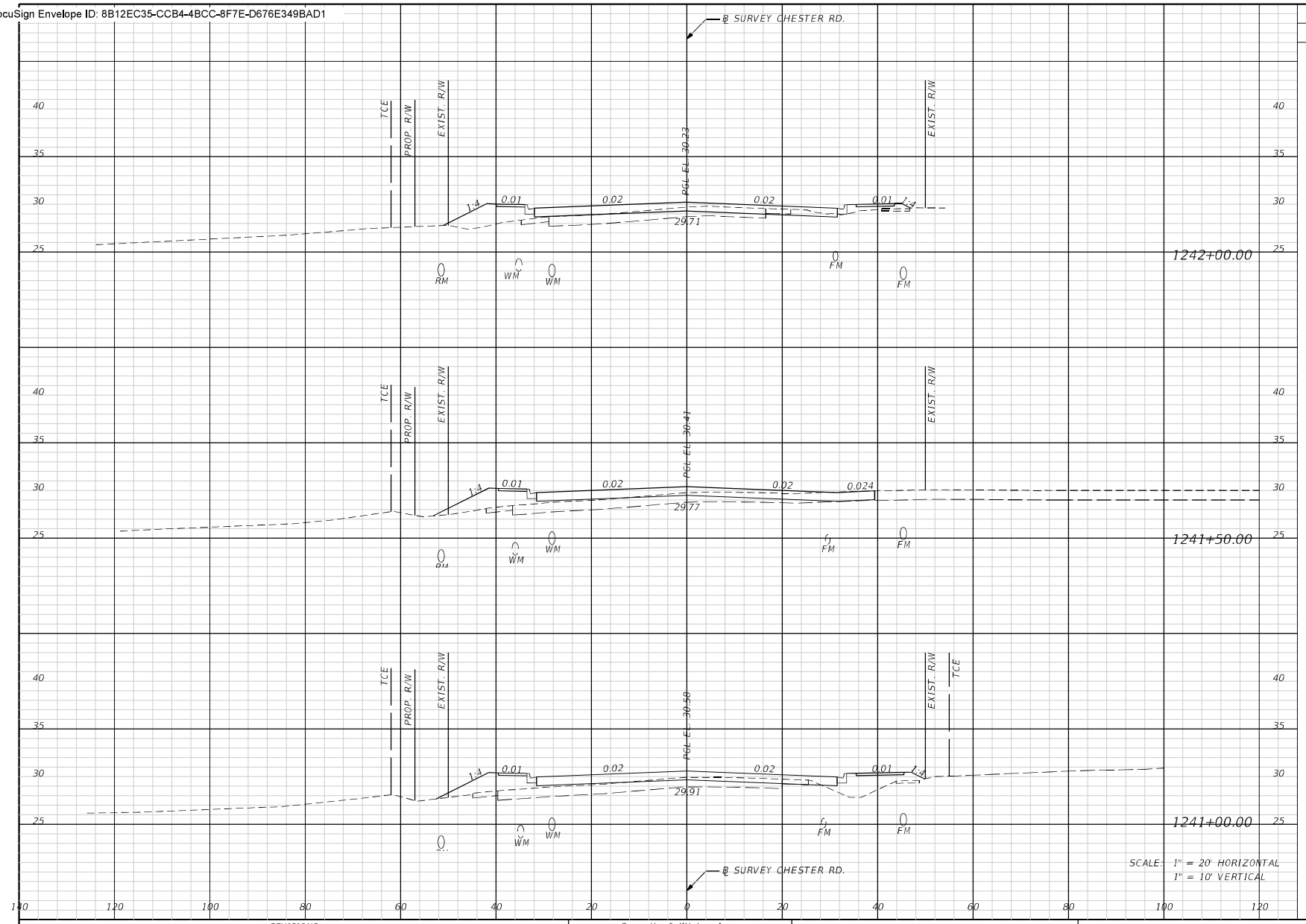
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

CROSS SECTIONS

SHEET NO. 82

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1



SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

Regular Exc.		Embankment	
A	V	A	V
20	45	33	58
28	38	30	76
13	22	53	97

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	

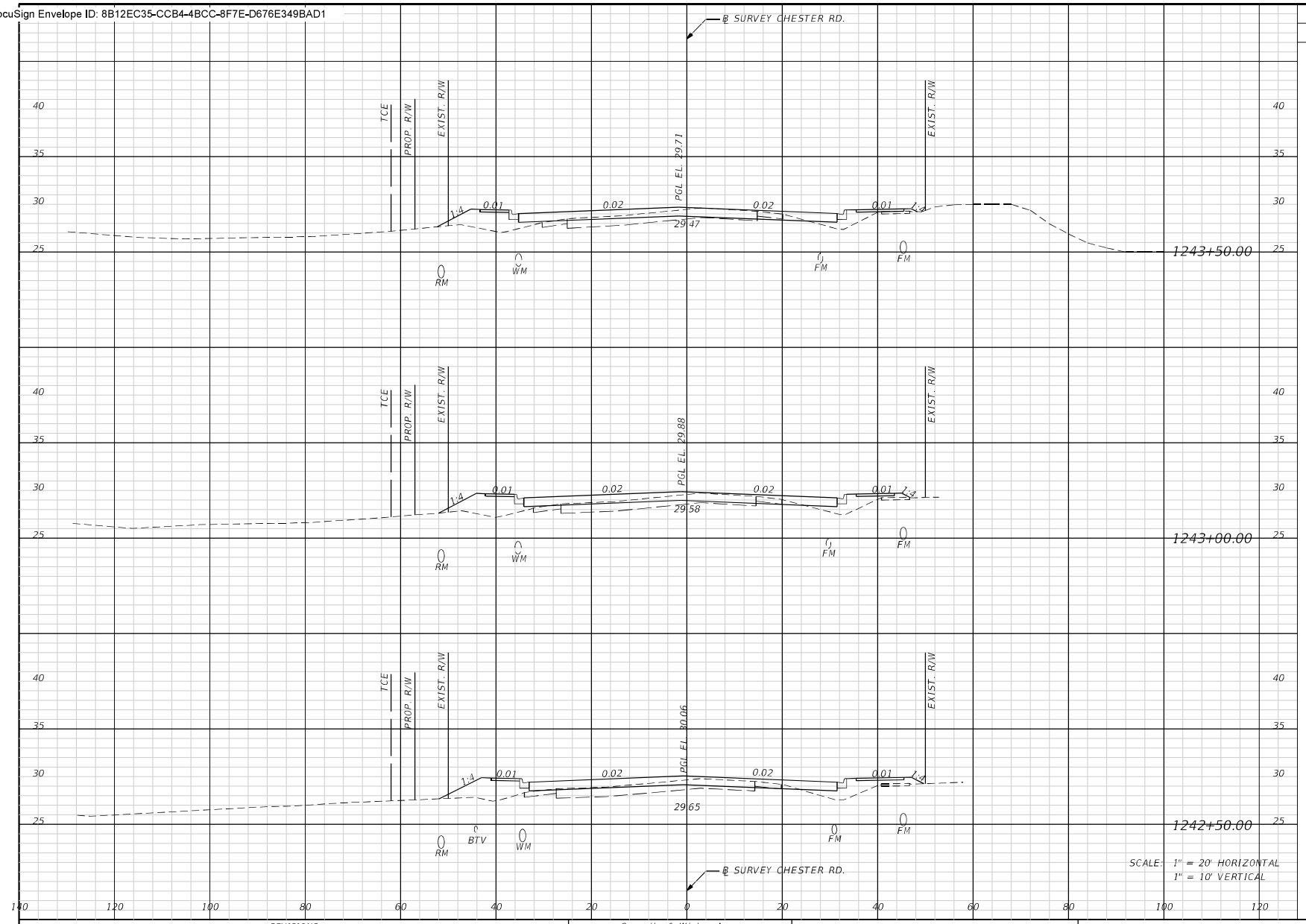
CROSS SECTIONS

SHEET NO. 83

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

Danny 12/14/2023 8:16:46 AM J:\Transportation\Projects\17-01-0202_ChesterInt\roadway\RDXSRD01.DGN

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1



SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

Regular Exc.		Embankment	
A	V	A	V
27	47	36	71
23	39	41	79
19	37	45	72

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. 84

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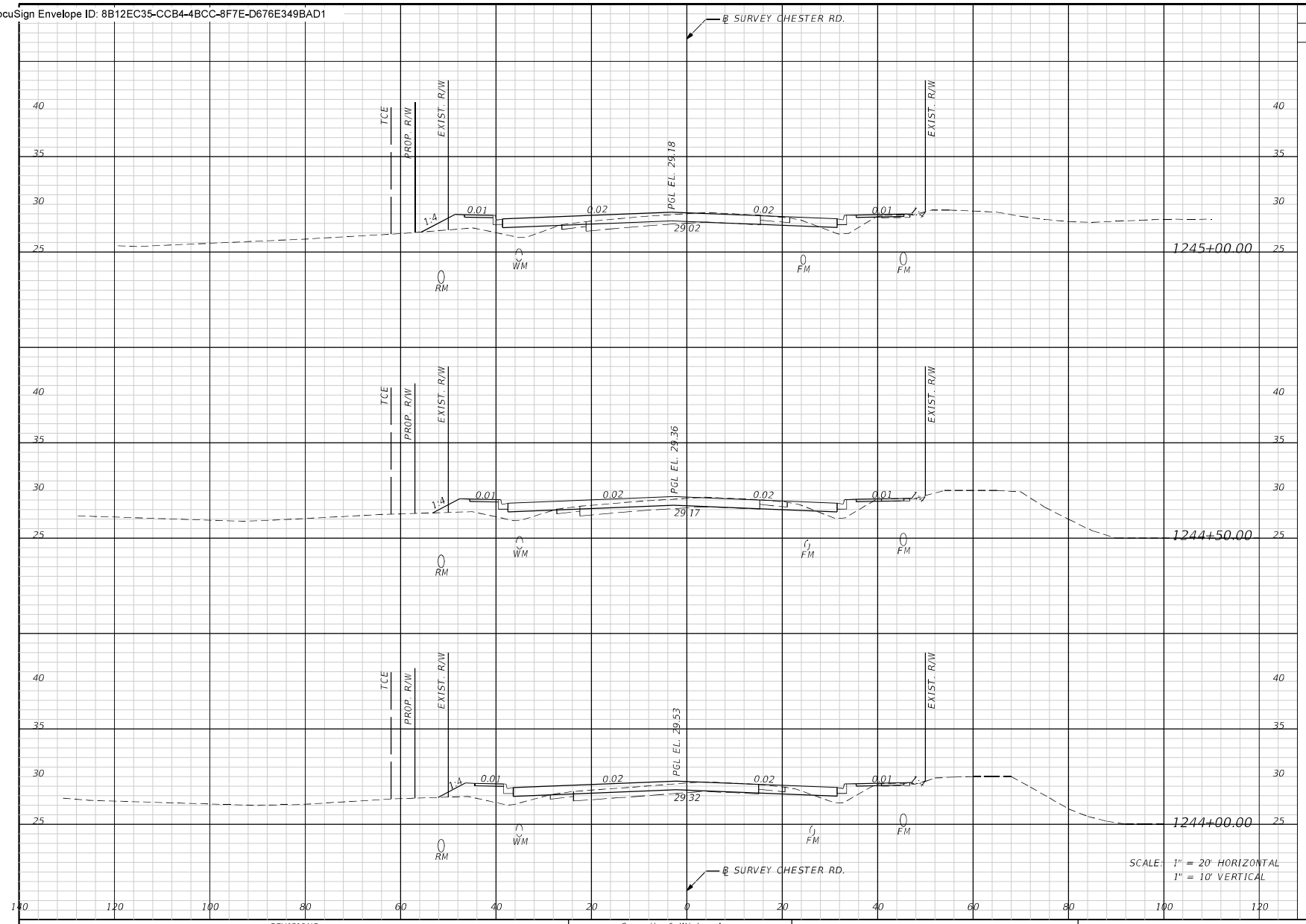

Regular Exc.		Embankment	
A	V	A	V
36	68	36	61
37	65	31	57
34	56	31	62

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. 85

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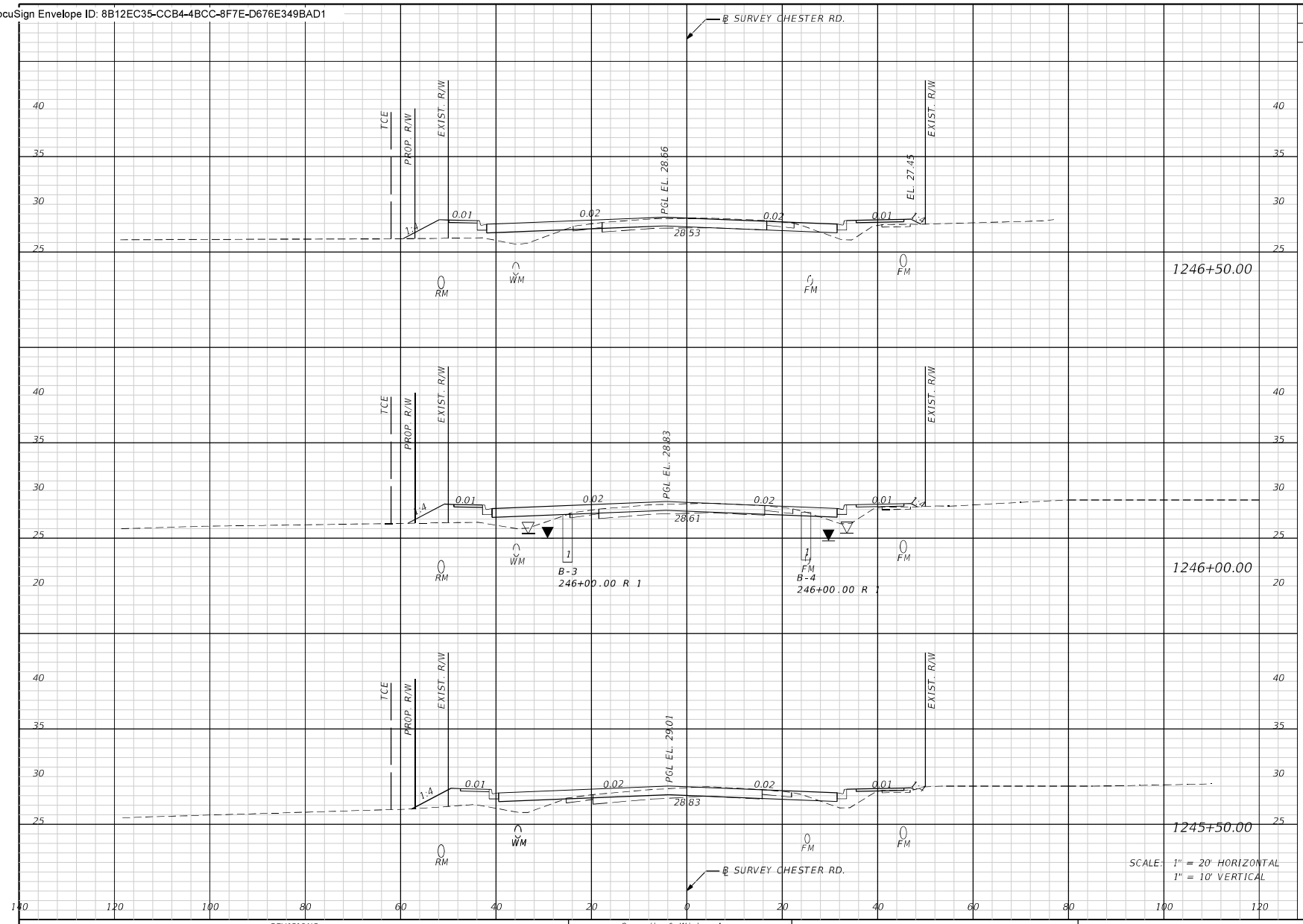

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

Regular Exc.		Embankment	
A	V	A	V
41	69	50	90
34	64	48	84
35	66	44	73

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

CROSS SECTIONS

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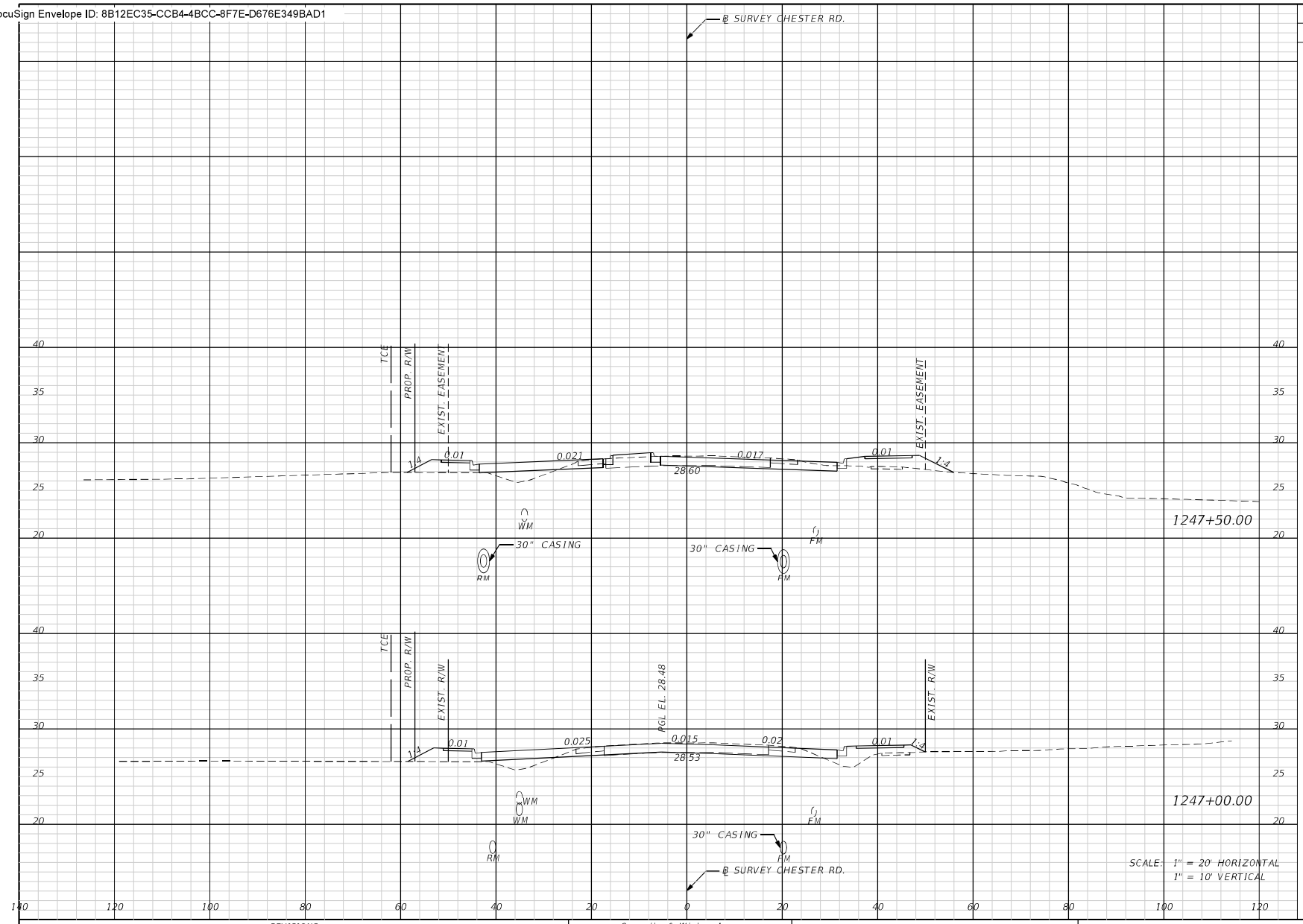

Regular Exc.		Embankment	
A	V	A	V
46	90	45	80
52	85	41	84

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NASSAU COUNTY ENGINEERING

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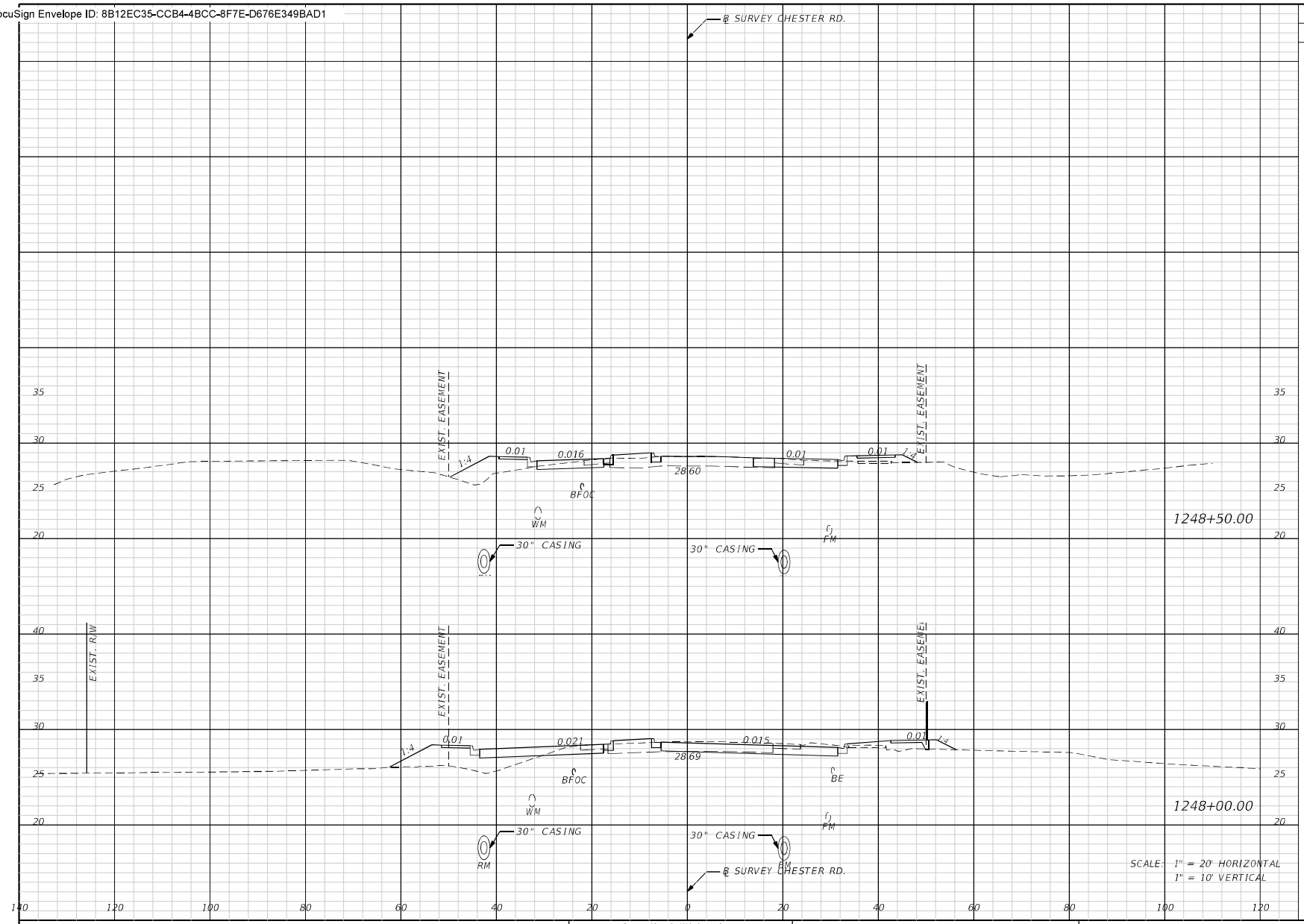

Regular Exc.		Embankment	
A	V	A	V
27	75	34	84
54	93	57	95

REVISIONS			
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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

CROSS SECTIONS

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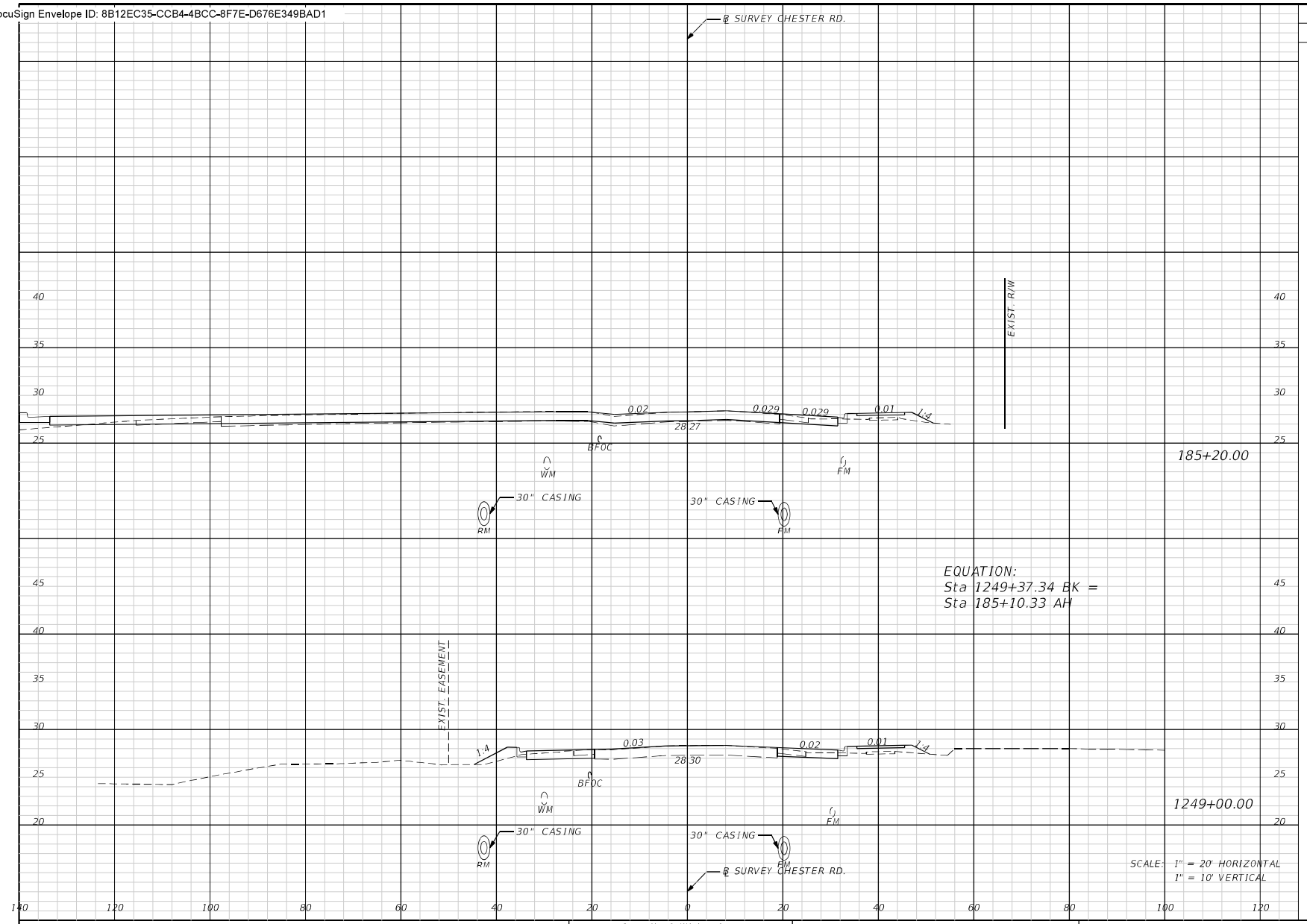

Regular Exc.		Embankment	
A	V	A	V
124	125	102	103
20	43	16	46

REVISIONS

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NASSAU COUNTY ENGINEERING

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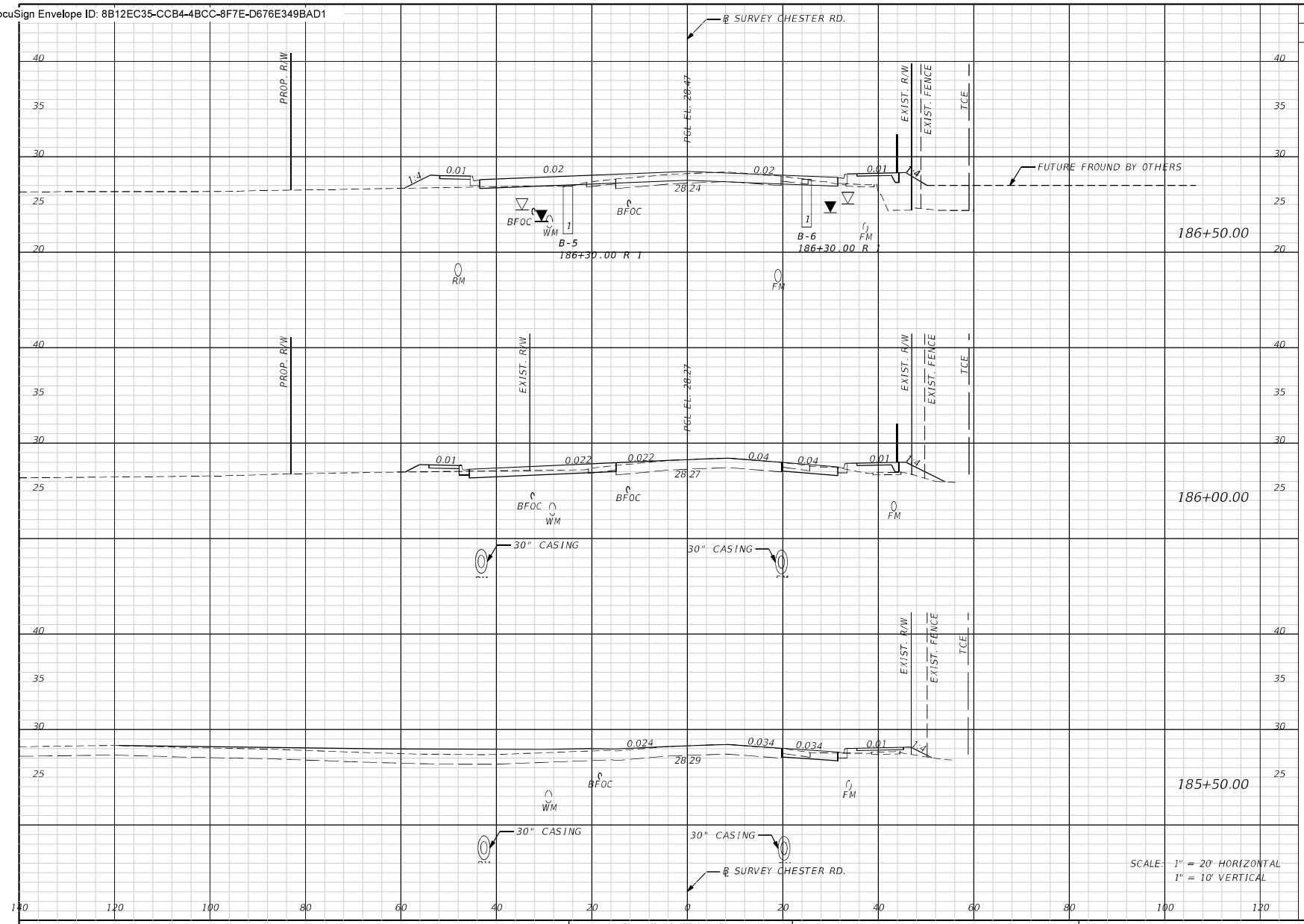

Regular Exc.		Embankment	
A	V	A	V
36	58	13	31
27	34	21	56
10	74	39	79

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

CROSS SECTIONS

SHEET NO. 90

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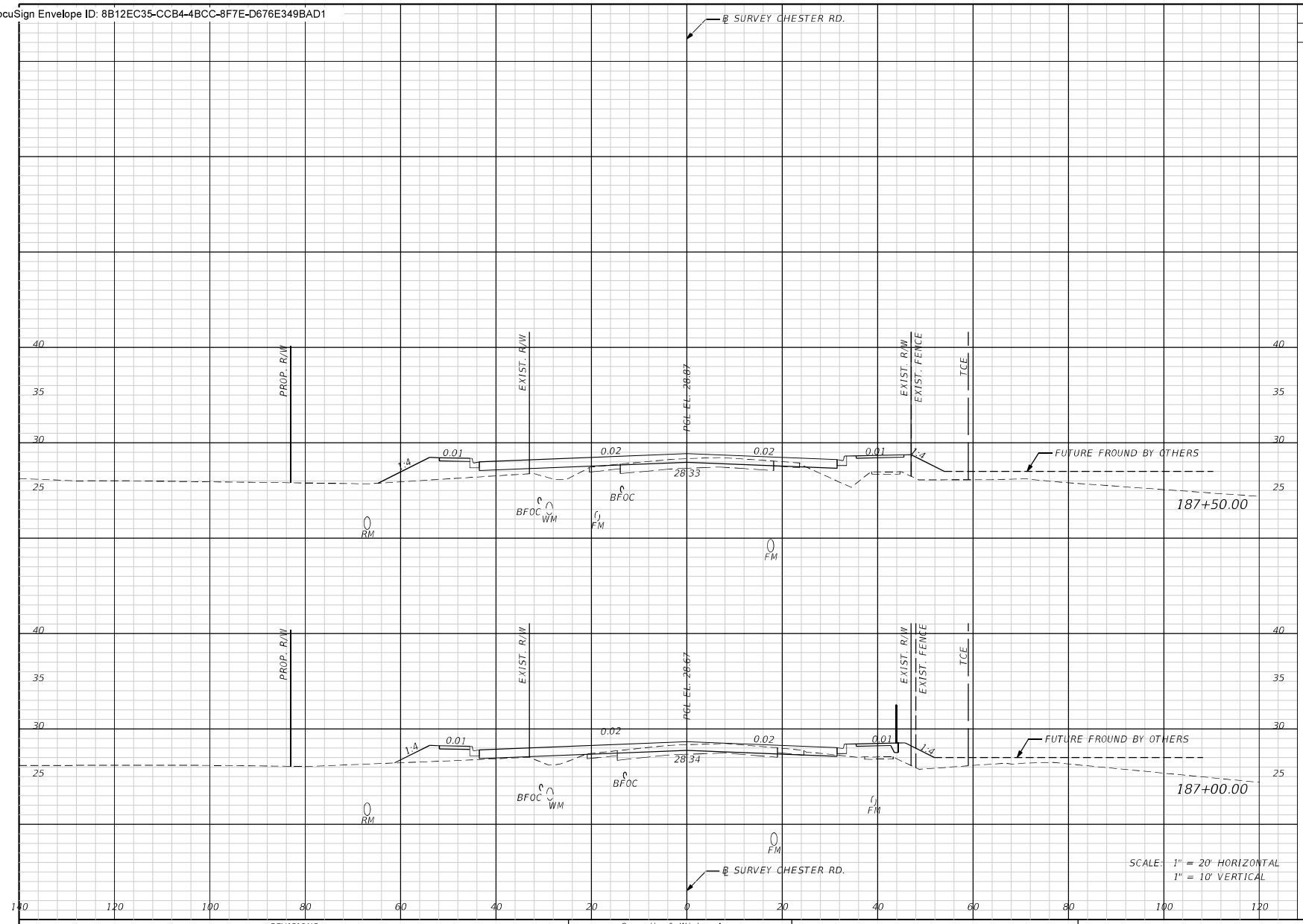

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

Regular Exc.		Embankment	
A	V	A	V
17	40	48	69
27	58	26	36

REVISIONS

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NASSAU COUNTY ENGINEERING

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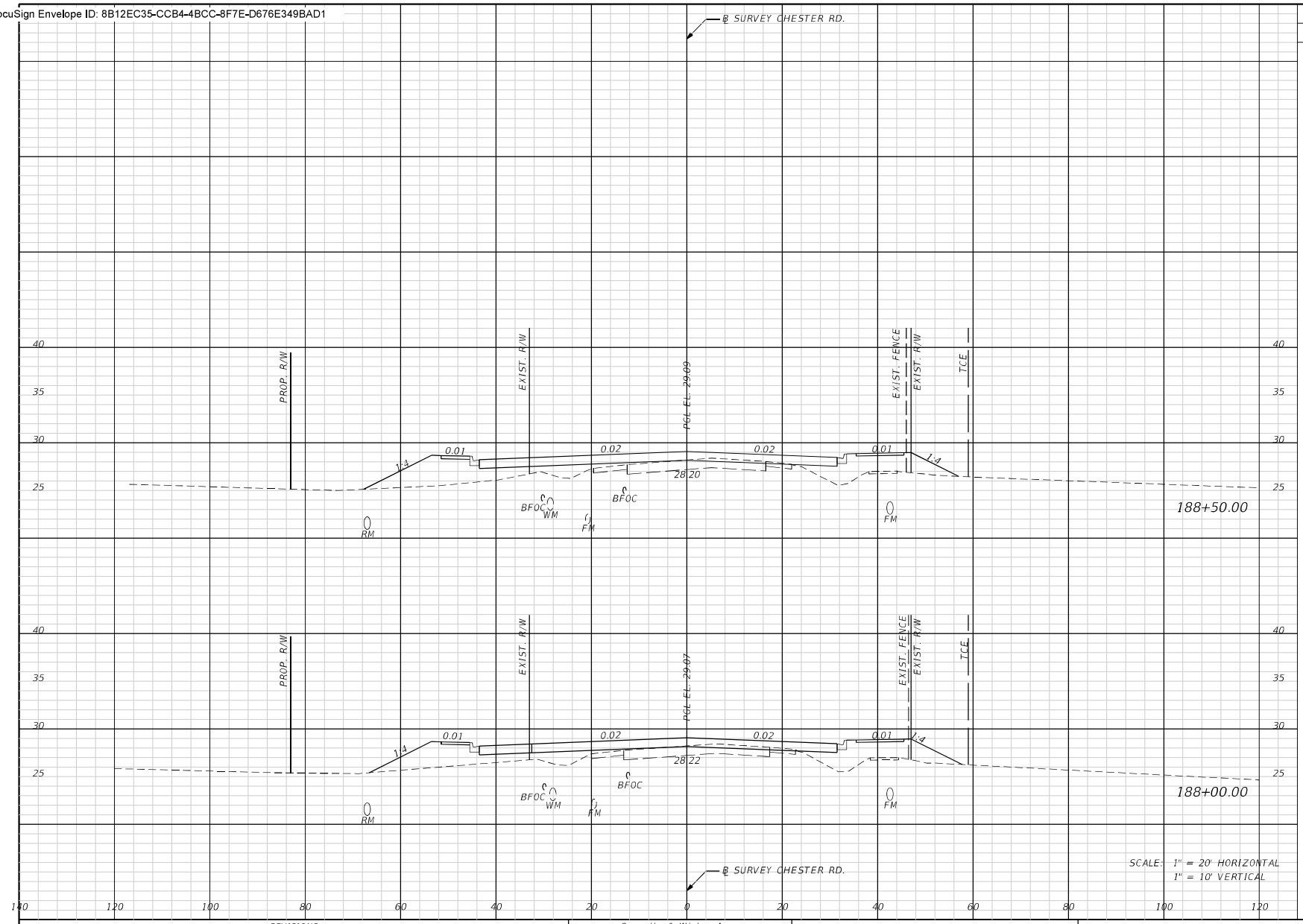

Regular Exc.		Embankment	
A	V	A	V
4	10	127	225
7	22	116	152

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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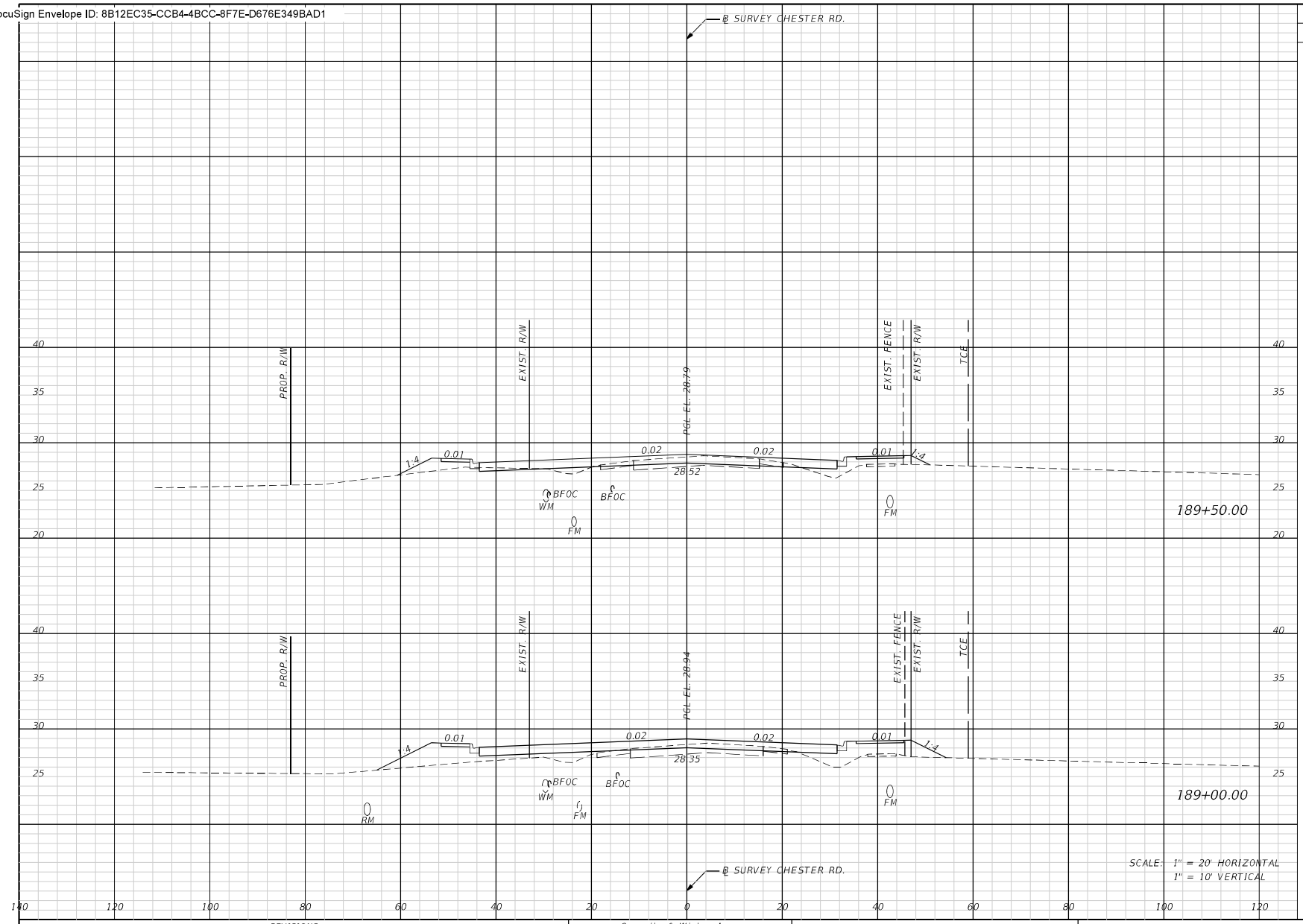

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

Regular Exc.		Embankment	
A	V	A	V
28	38	33	105
13	16	80	192

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FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

CROSS SECTIONS

SHEET NO. 93

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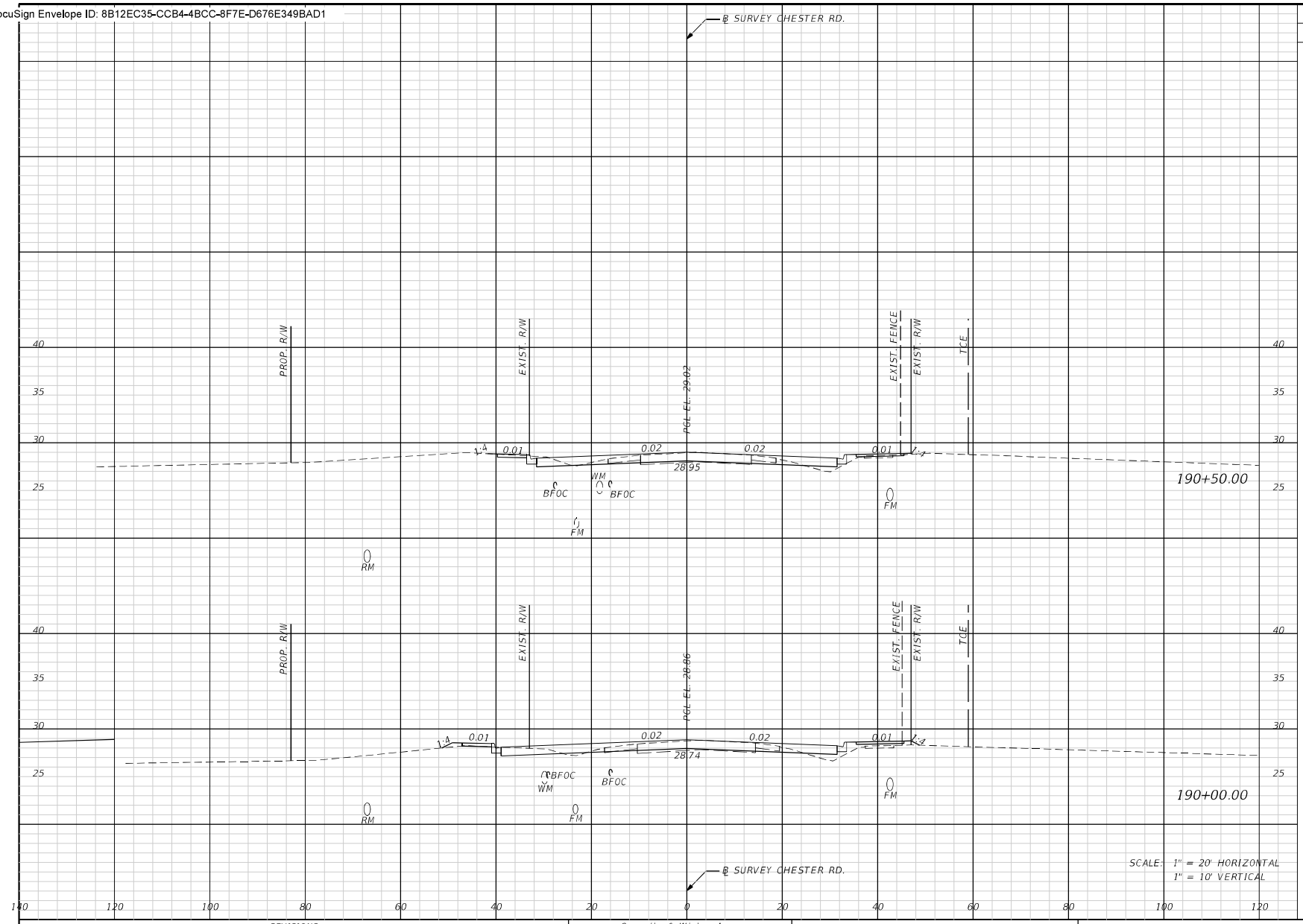

Regular Exc.		Embankment	
A	V	A	V
41	75	4	14
40	62	11	41

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

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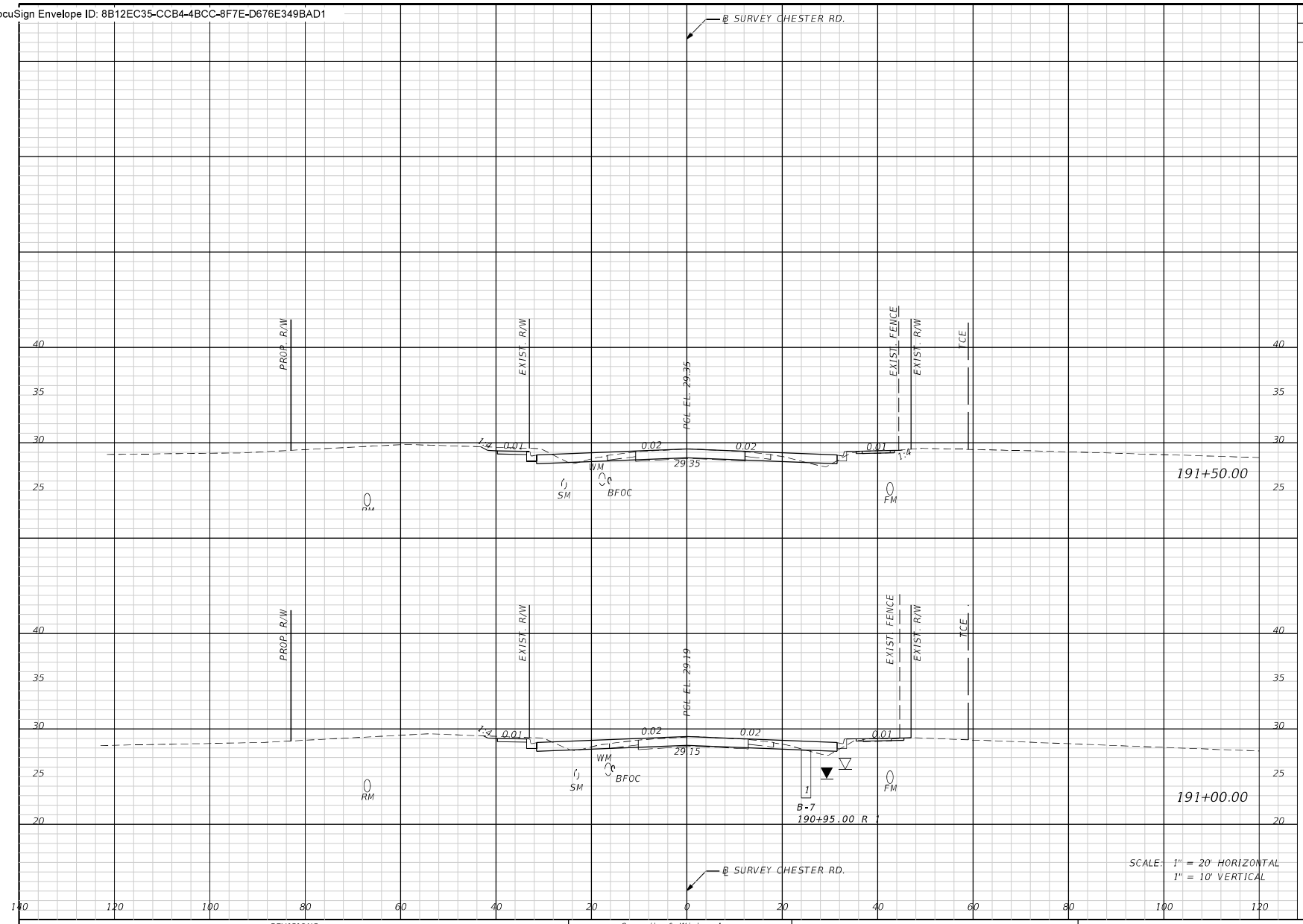

Regular Exc.		Embankment	
A	V	A	V
50	89	2	4
46	81	3	6

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

CROSS SECTIONS

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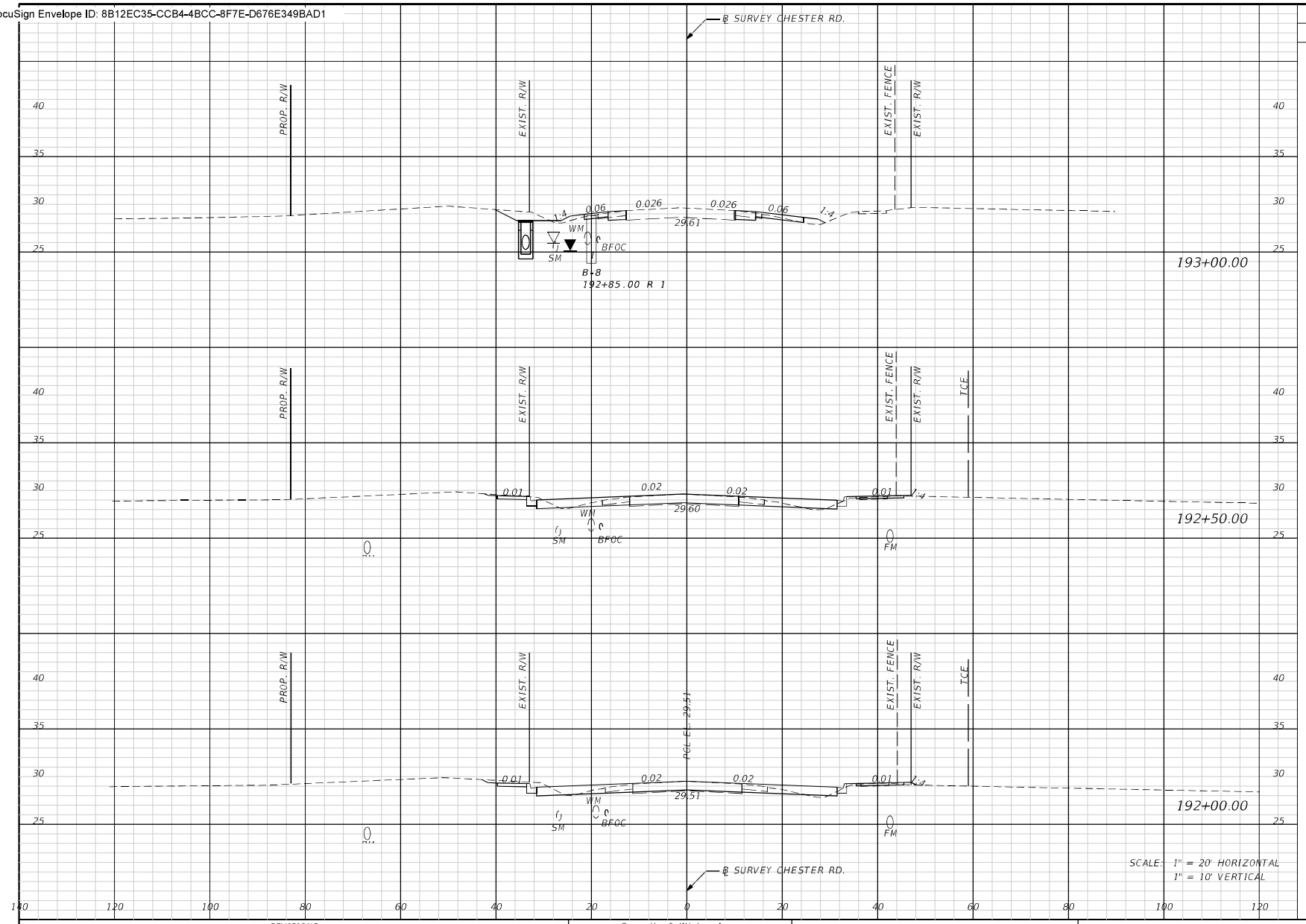

Regular Exc.		Embankment	
A	V	A	V
18	57	4	5
44	84	1	3
47	90	2	3

REVISIONS			
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Certification of Authorization No. 3650

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

CROSS SECTIONS

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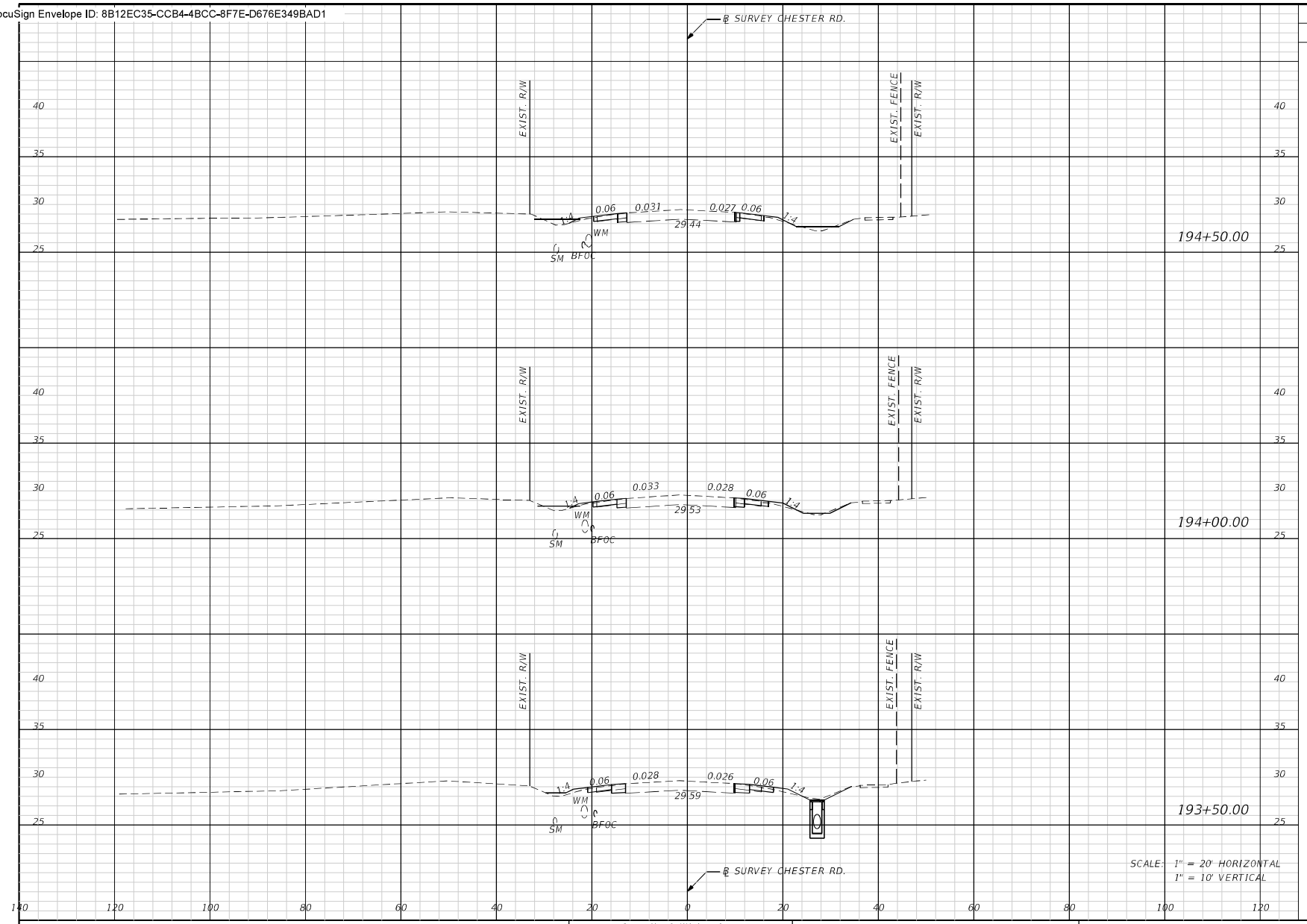

Regular Exc.		Embankment	
A	V	A	V
8	15	4	7
9	18	4	7
11	26	4	8

REVISIONS

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NASSAU COUNTY ENGINEERING

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	NASSAU	

CROSS SECTIONS

SHEET NO. 97

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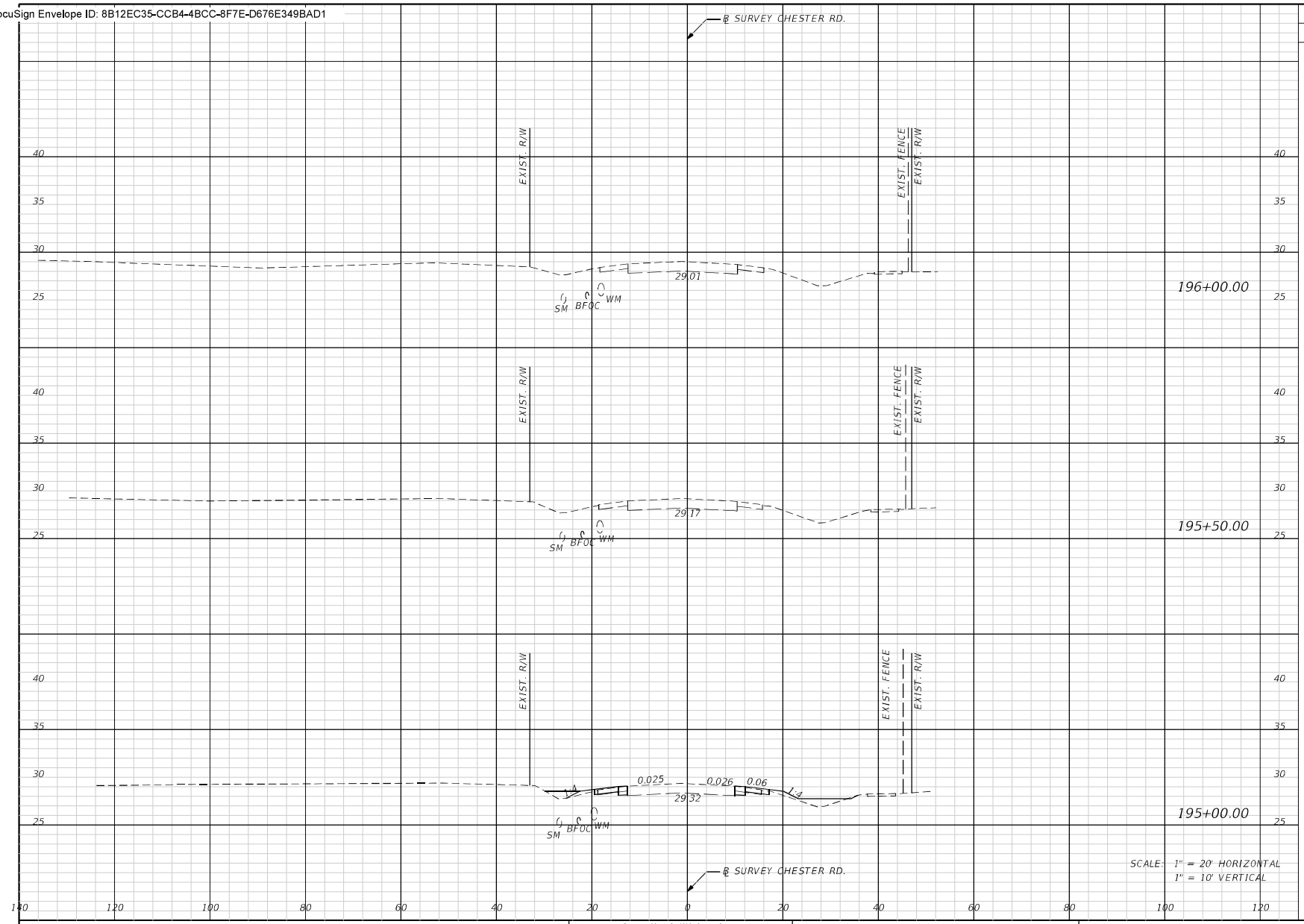

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

Regular Exc.		Embankment	
A	V	A	V
0	0	0	0
0	0	0	0
8	15	9	11

REVISIONS

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NASSAU COUNTY ENGINEERING

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	NASSAU	

CROSS SECTIONS

SHEET NO. 98

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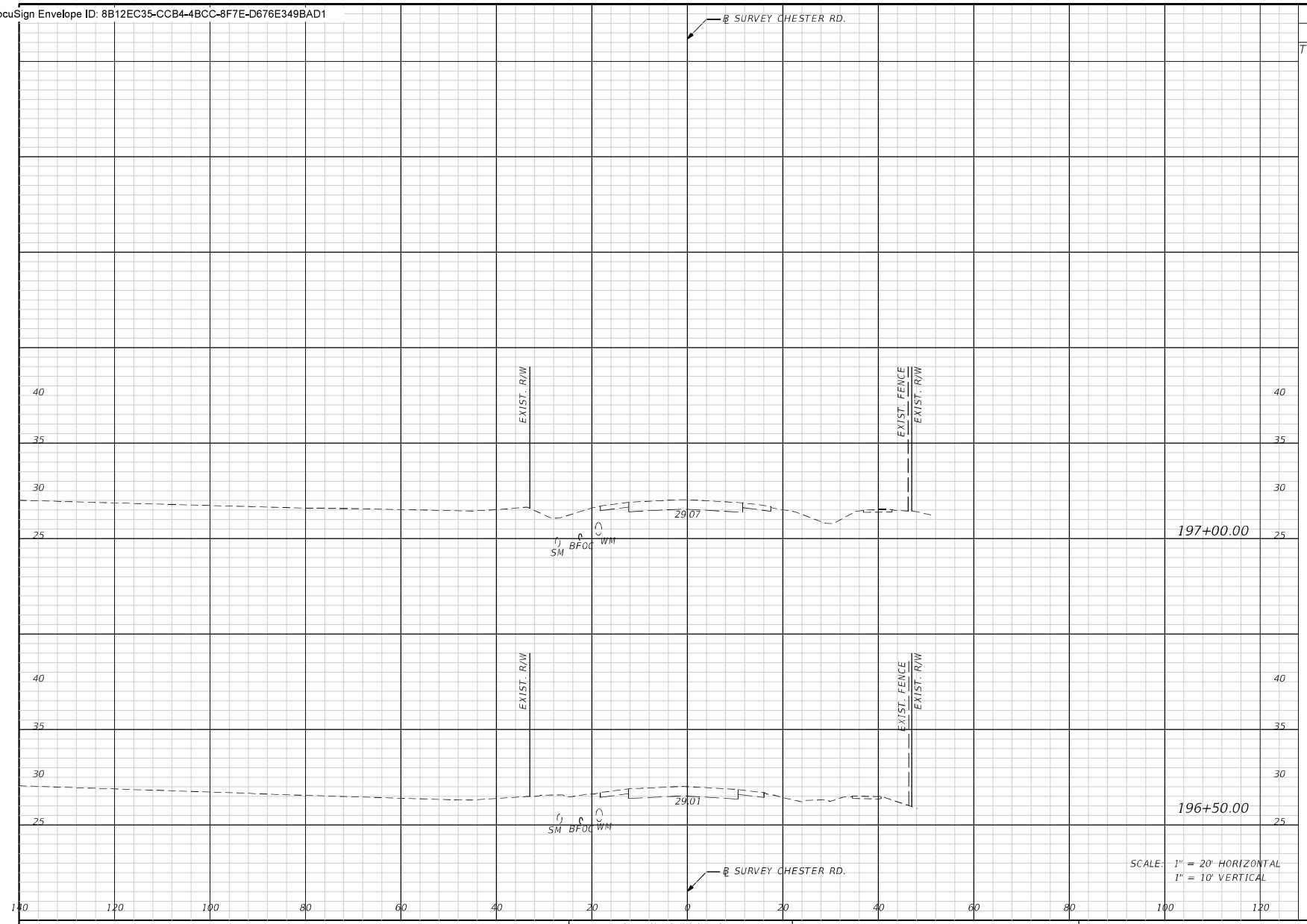

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

Regular Exc.		Embankment	
A	V	A	V
TOTAL:	2577	TOTAL:	2917
0	0	0	0
0	0	0	0

REVISIONS			
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CROSS SECTIONS

SHEET NO. 99

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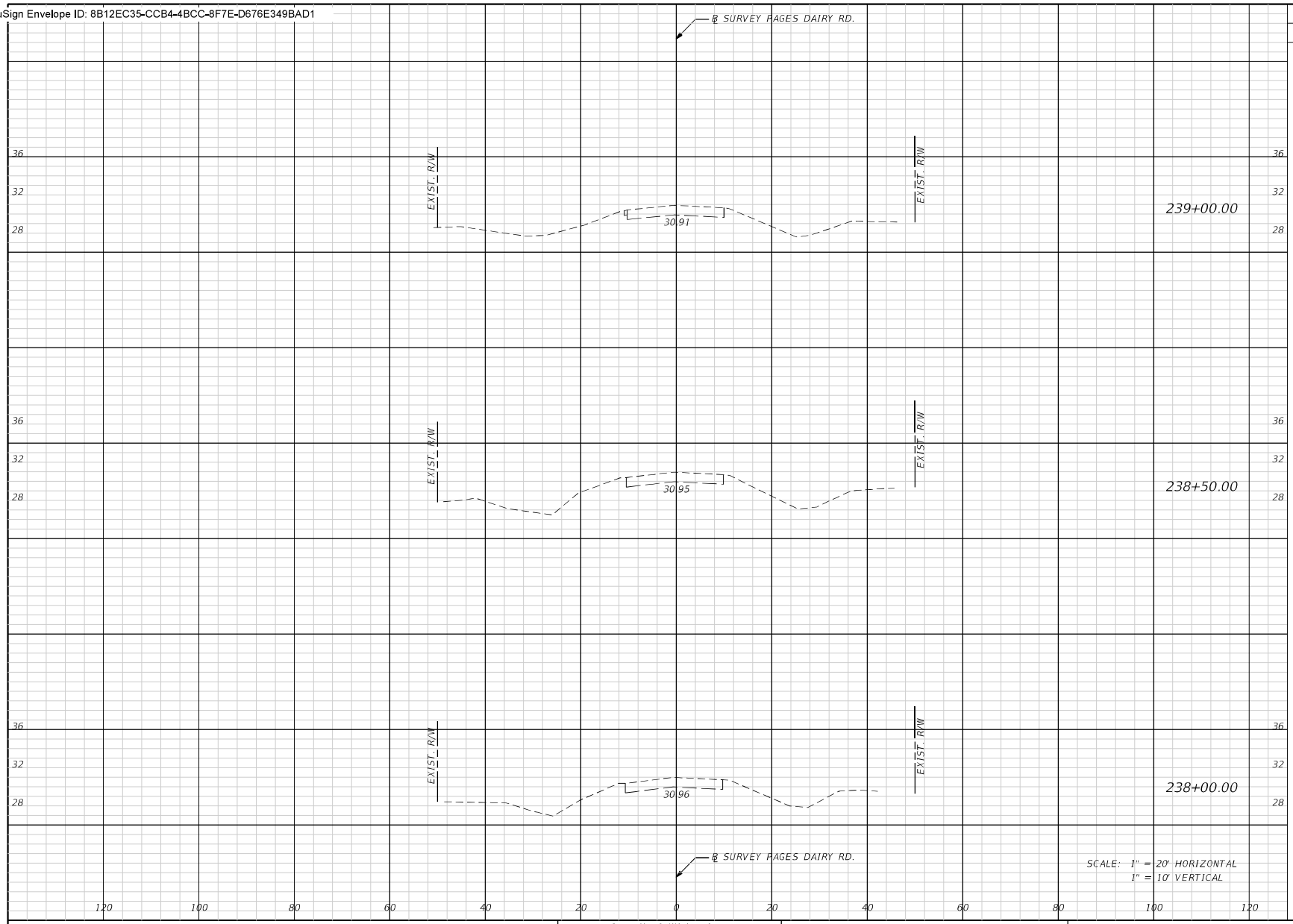

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

	Regular Exc.		Embankment	
	A	V	A	V
239+00.00	0	0	0	0
238+50.00	0	0	0	0
238+00.00	0	0	0	0

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NASSAU COUNTY ENGINEERING

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	NASSAU	

CROSS SECTIONS

SHEET NO. 100

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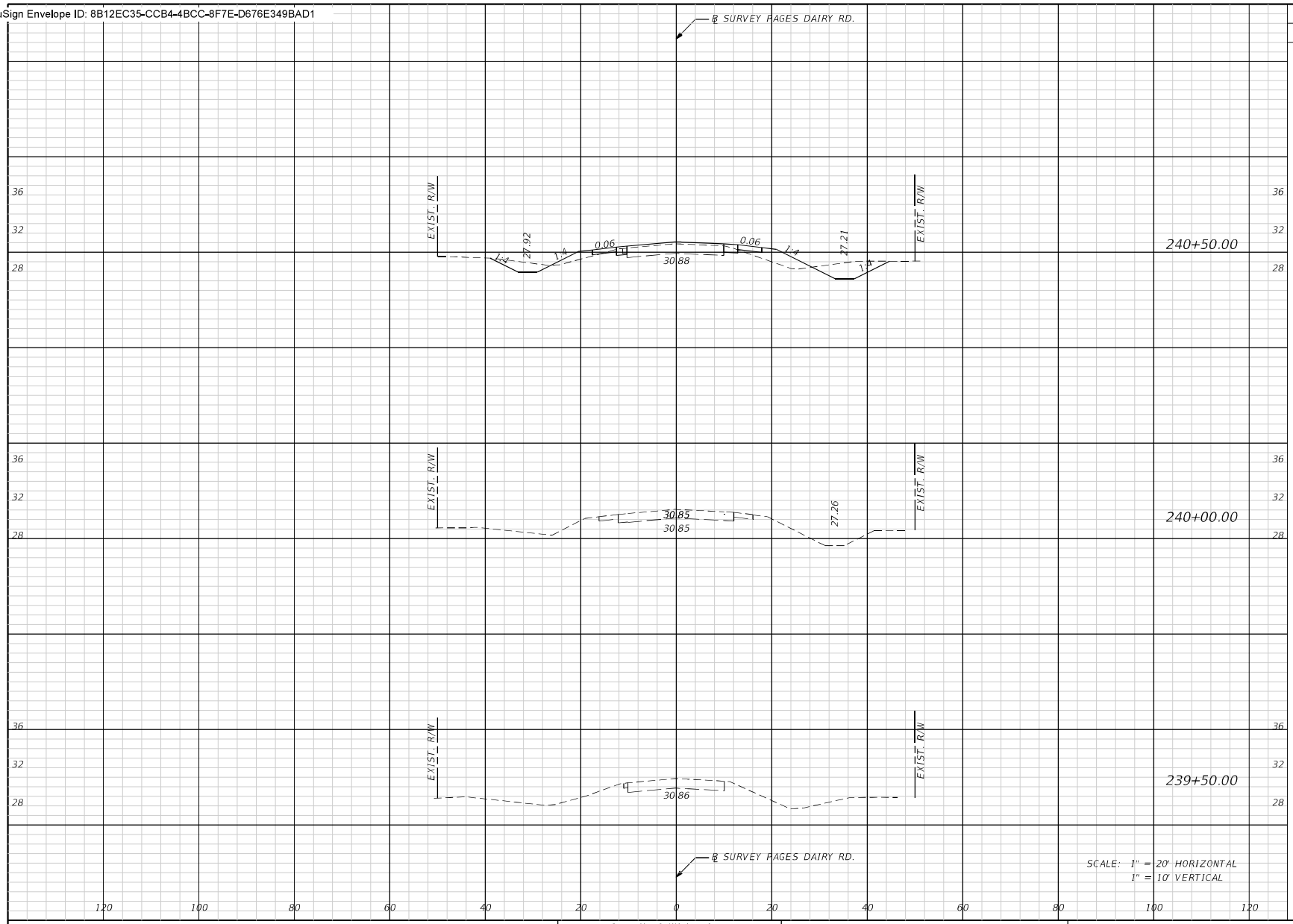

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

	Regular Exc.		Embankment	
	A	V	A	V
240+50.00	29	0	18	0
240+00.00	0	0	0	0
239+50.00	0	0	0	0

REVISIONS

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Jacksonville, FL 32246
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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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CROSS SECTIONS

SHEET NO. 101

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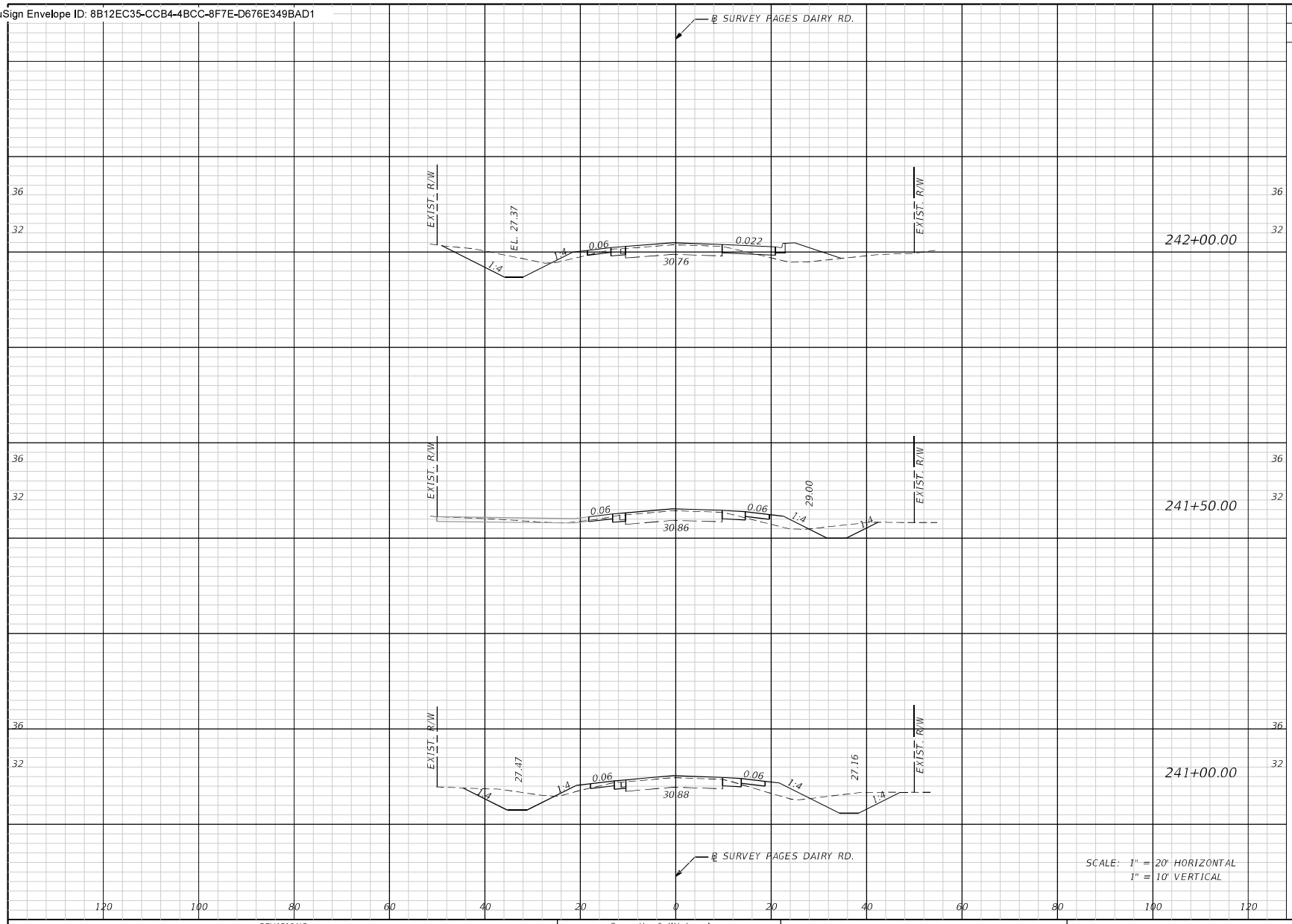

	Regular Exc.		Embankment	
	A	V	A	V
242+00.00	35	48	20	26
241+50.00	17	63	8	21
241+00.00	51	74	14	29

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FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

CROSS SECTIONS

SHEET NO. 102

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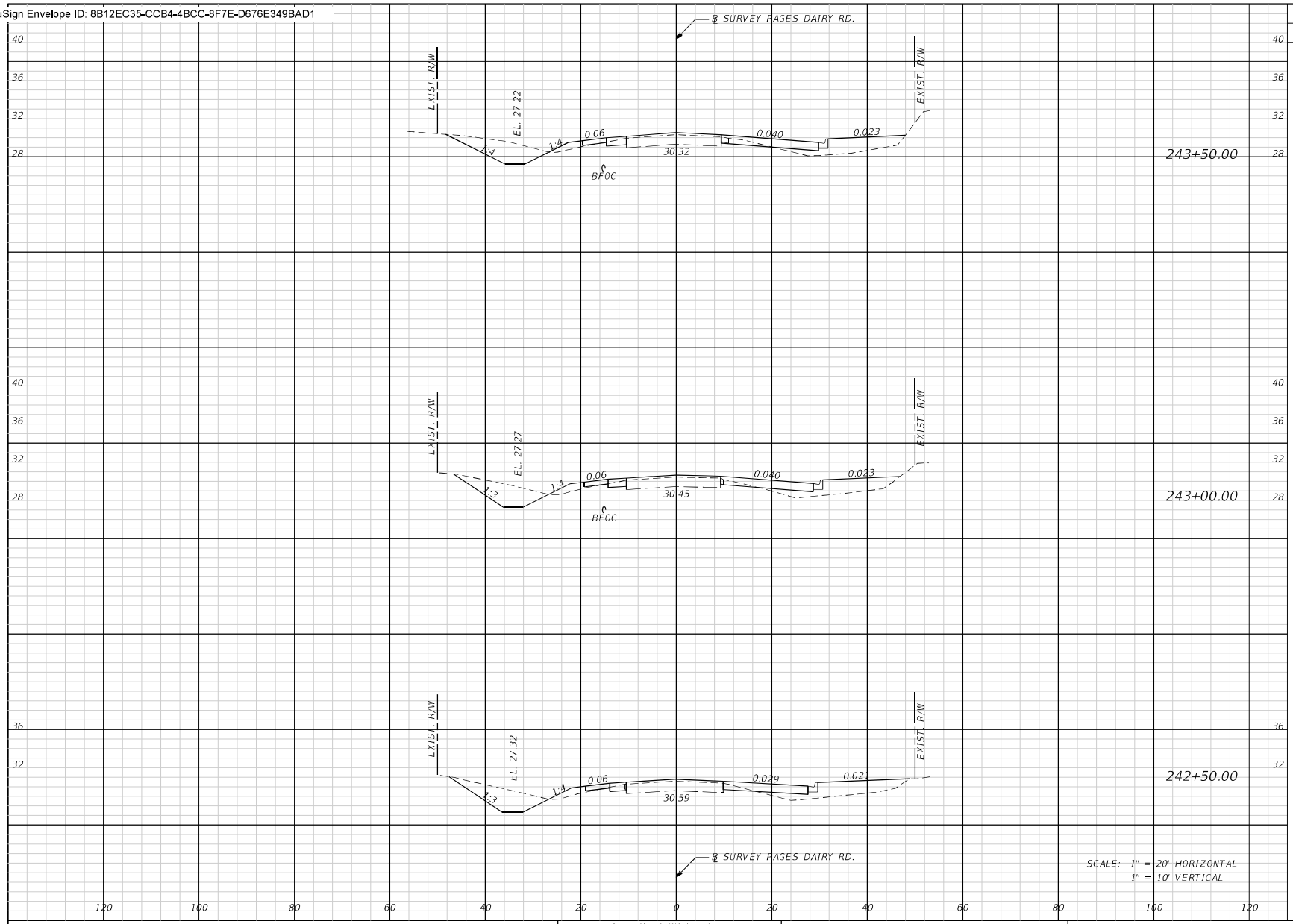

Regular Exc.		Embankment	
A	V	A	V
36	63	31	58
32	61	32	62
34	64	35	51

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. 103

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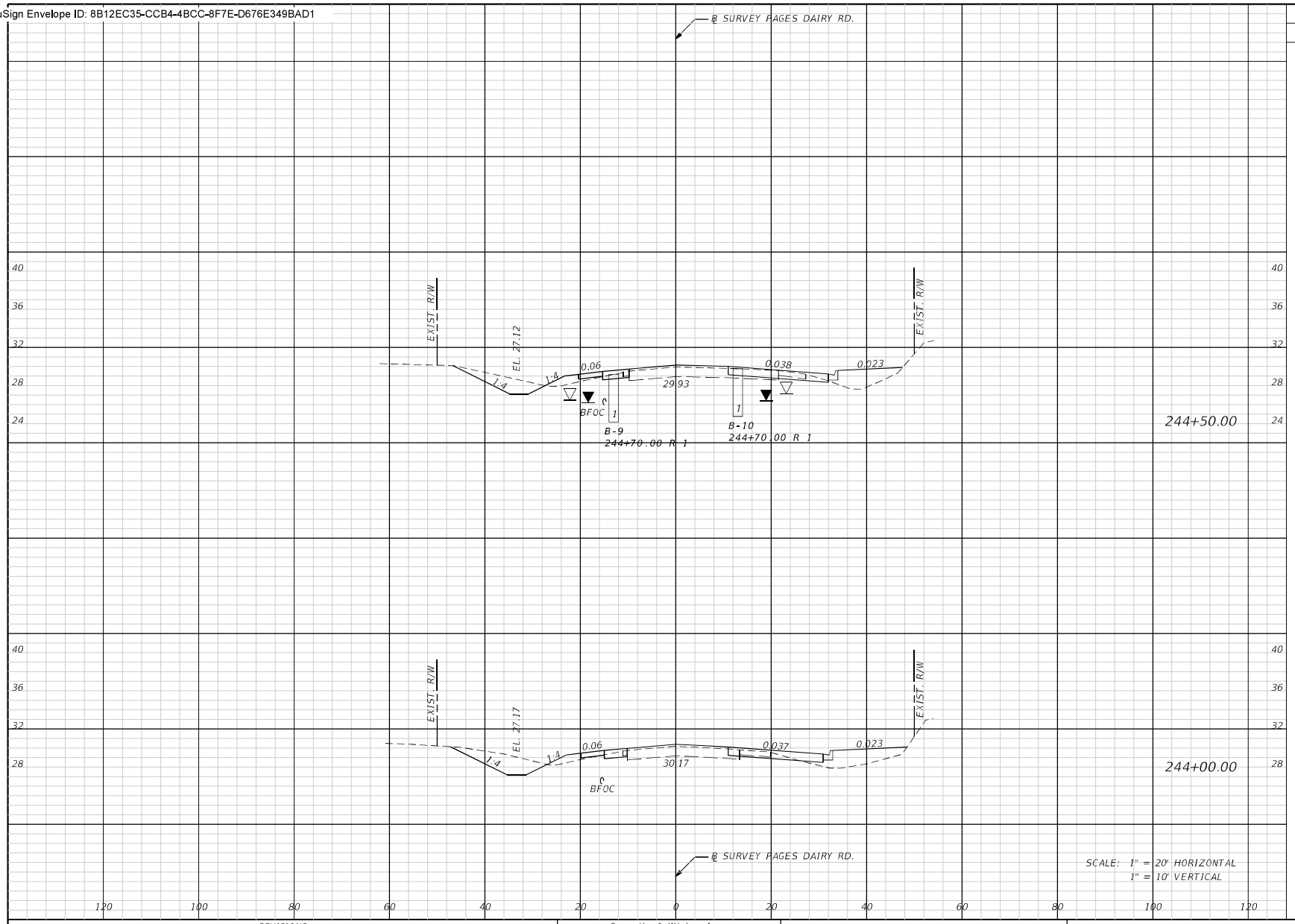

Regular Exc.		Embankment	
A	V	A	V
35	65	26	51
35	65	29	55

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

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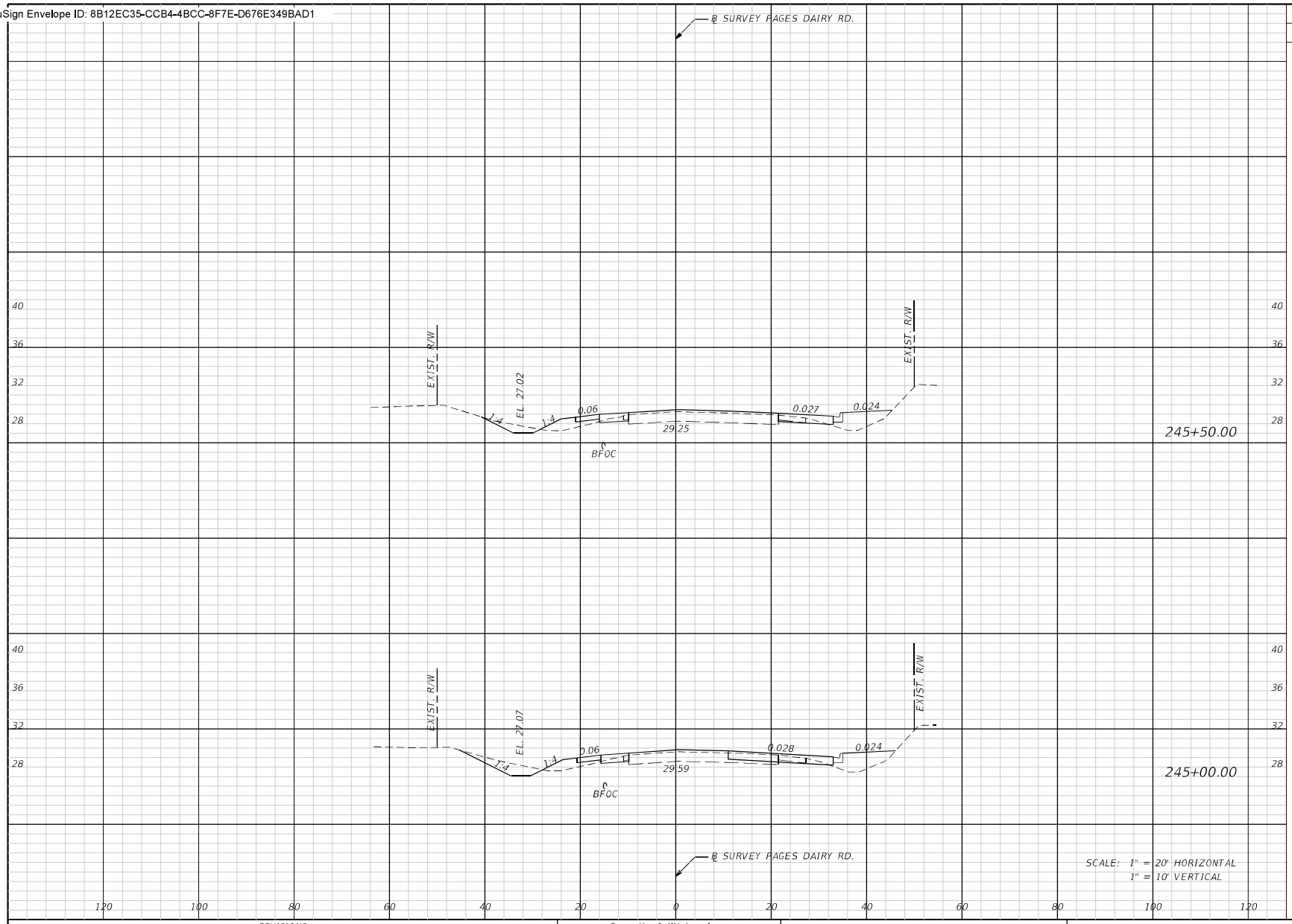

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

Regular Exc.		Embankment	
A	V	A	V
13	38	24	45
28	58	25	47

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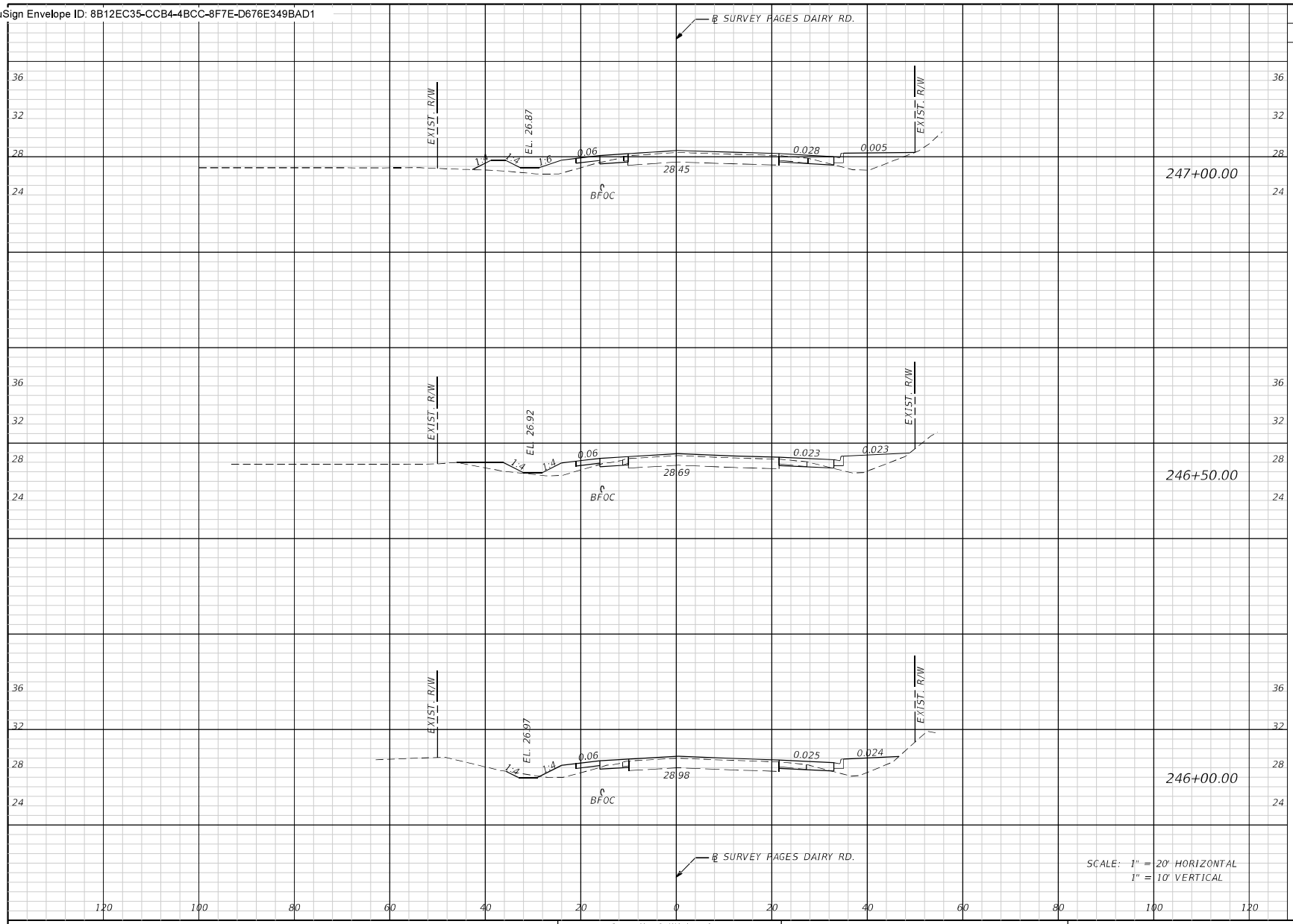

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

	Regular Exc.		Embankment	
	A	V	A	V
247+00.00	8	14	40	68
246+50.00	7	15	34	54
246+00.00	9	21	24	45

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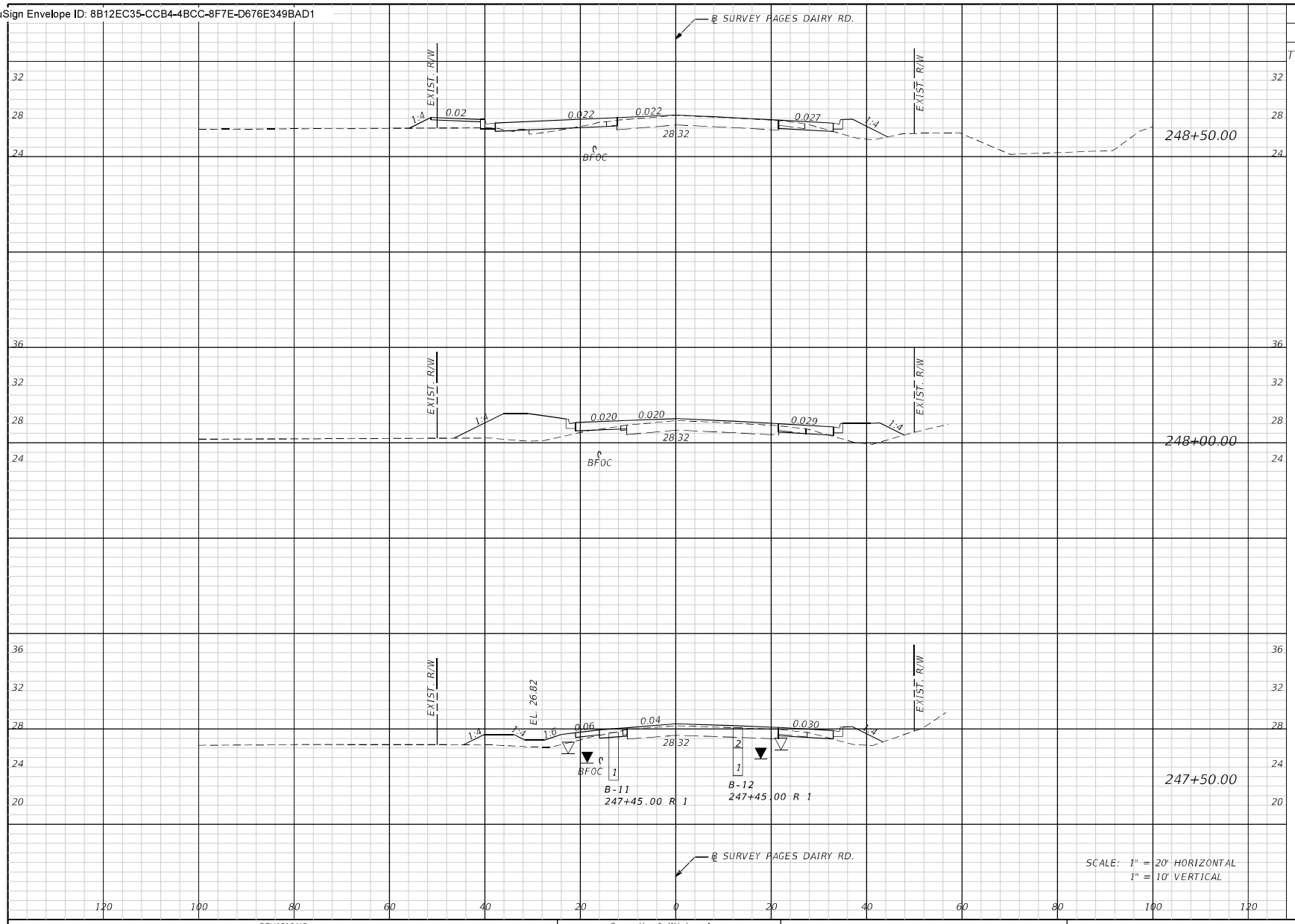

Regular Exc.		Embankment	
A	V	A	V
TOTAL :	691	TOTAL :	864
10	15	25	89
6	13	71	96
8	14	33	67

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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: 11 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

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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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STORMWATER POLLUTION PREVENTION PLAN

SHEET NO. 109

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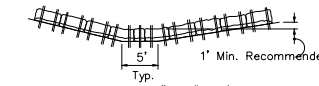
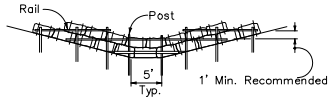
1. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SILT FROM SITE IF NOT REUSABLE ON-SITE AND ASSURING PLAN ALIGNMENT AND GRADE IN ALL DITCHES AND SWALES AT COMPLETION OF CONSTRUCTION.
2. THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF 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.

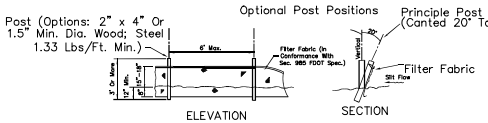
ELEVATION
TYPE II

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

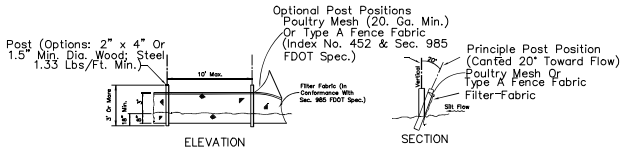
BARRIER FOR UNPAVED DITCHES

HAY BALE BARRIERS TYPE I & TYPE II

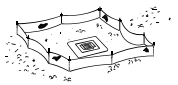
N.T.S.



TYPE III SILT FENCE



TYPE IV SILT FENCE



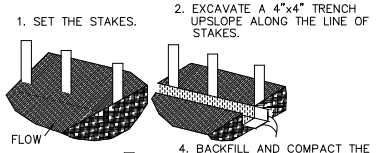
Type III Or Type IV Silt Fence
Protection Around Ditch Bottom Inlets.

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.

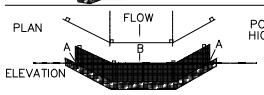
SILT FENCE APPLICATIONS

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

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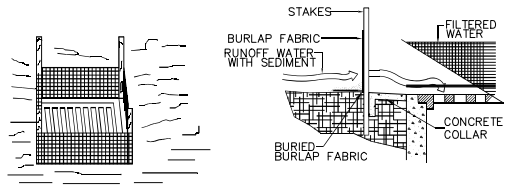


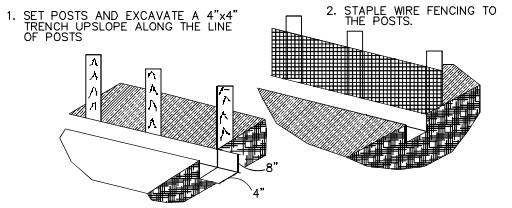
FABRIC SEDIMENT FILTER

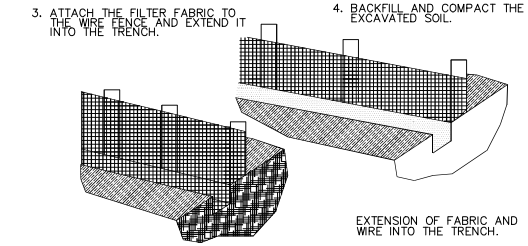
SPECIFIC APPLICATION

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

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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	

EROSION CONTROL DETAILS

SHEET NO. 110

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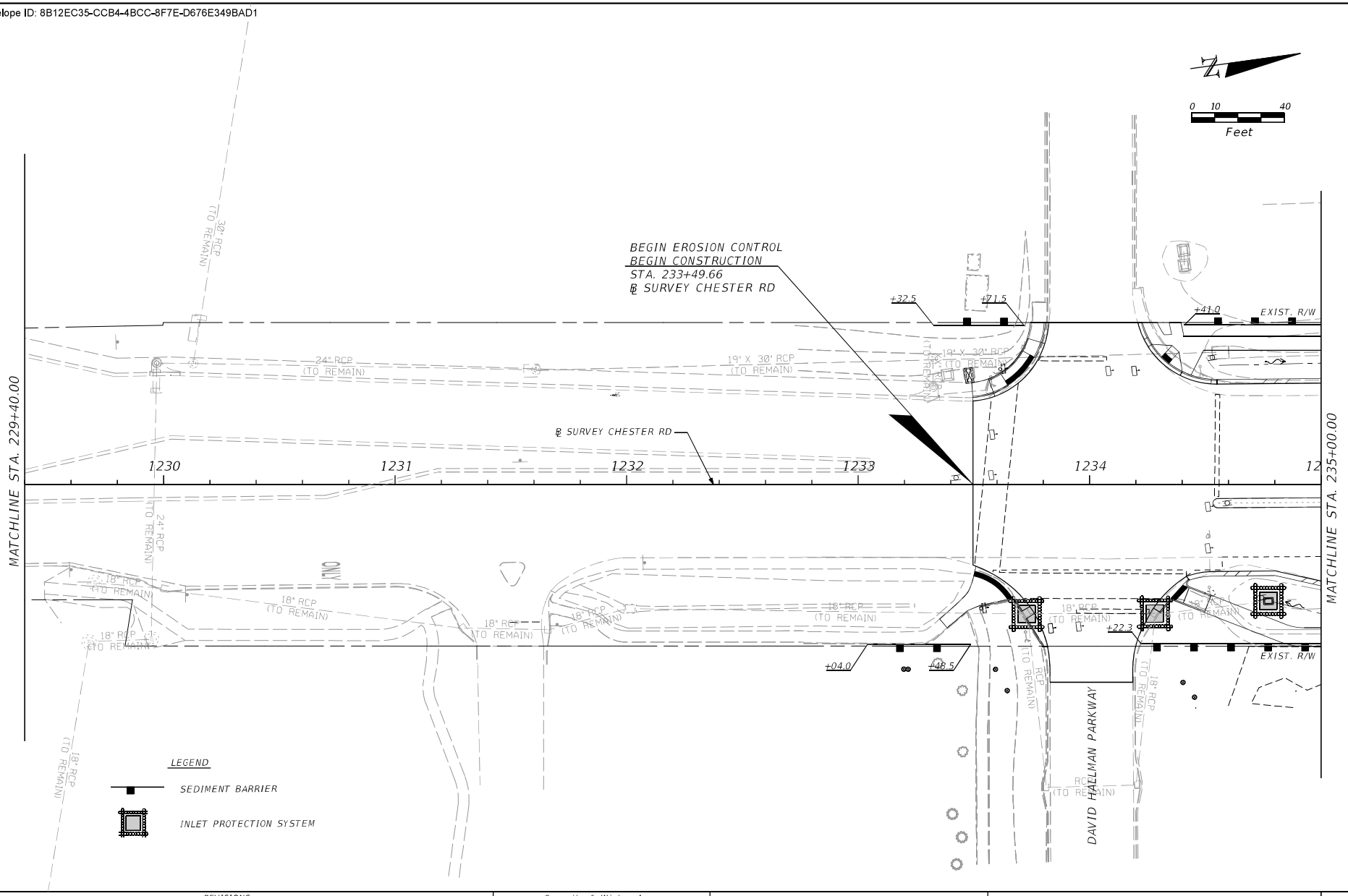

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EROSION CONTROL PLAN SHEET

SHEET NO. 111

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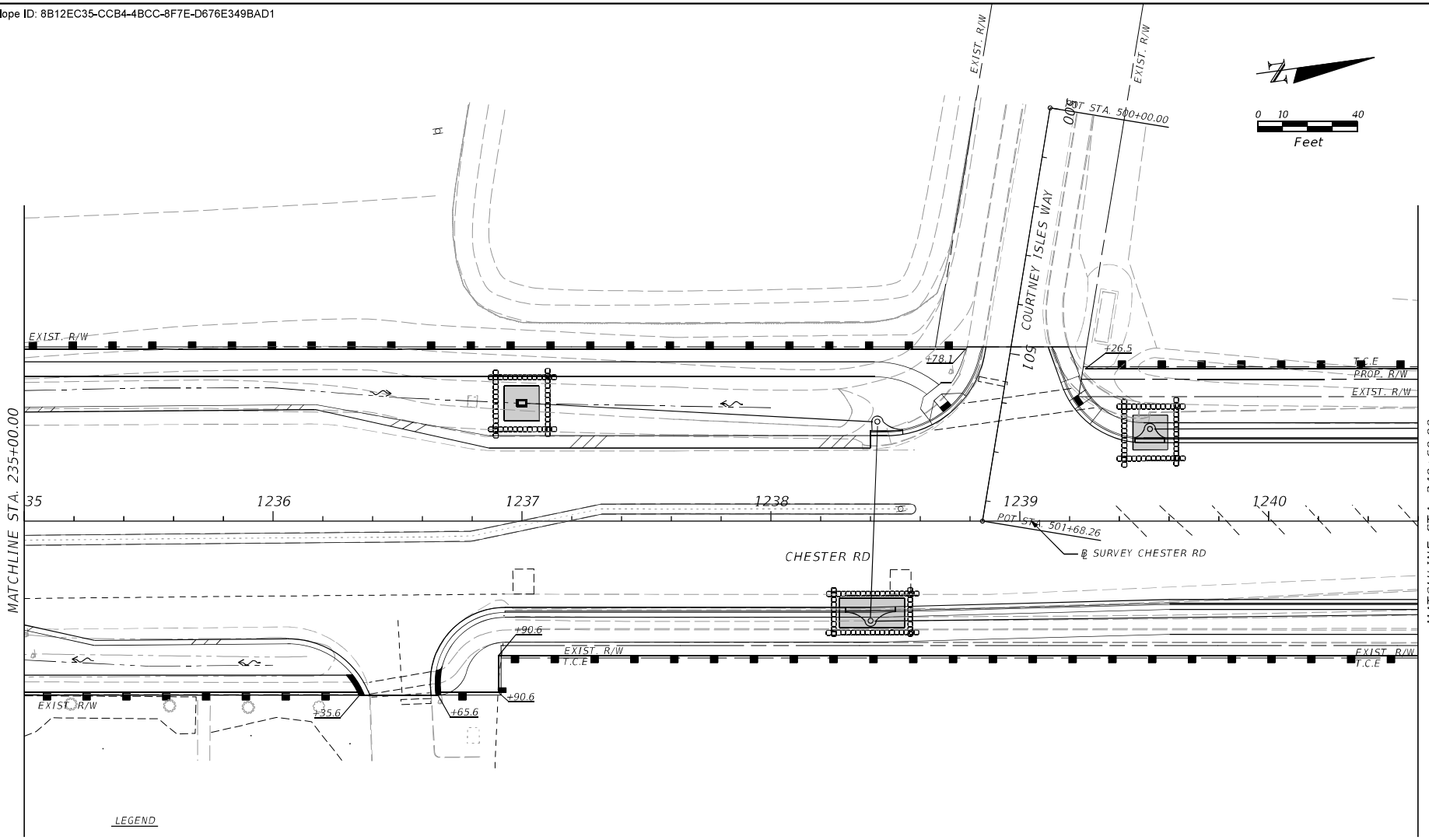

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	NASSAU	

EROSION CONTROL PLAN SHEET

SHEET NO. 112

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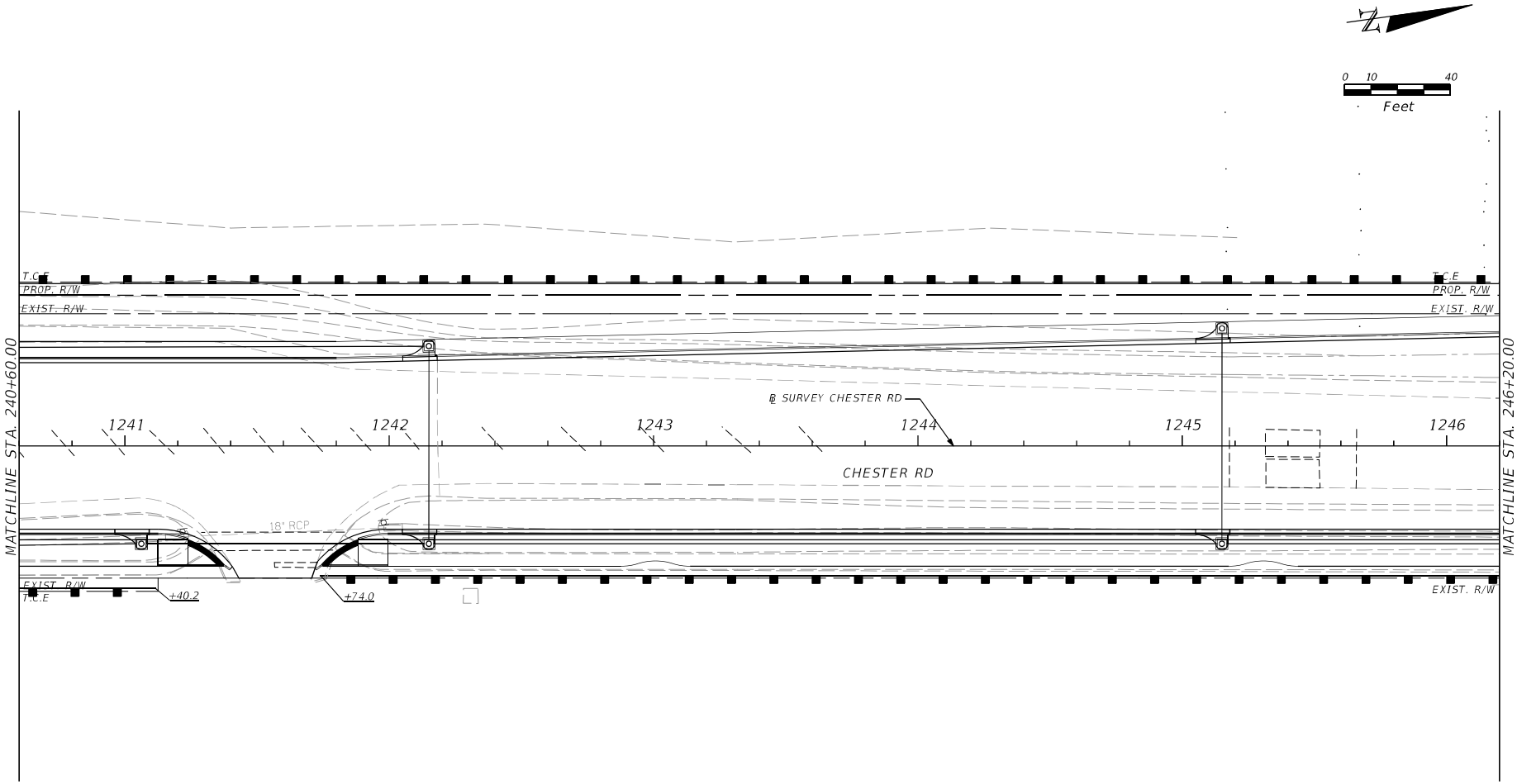

LEGEND

SEDIMENT BARRIER

INLET PROTECTION SYSTEM

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Certification of Authorization No. 3650

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FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

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	NASSAU	

EROSION CONTROL PLAN SHEET

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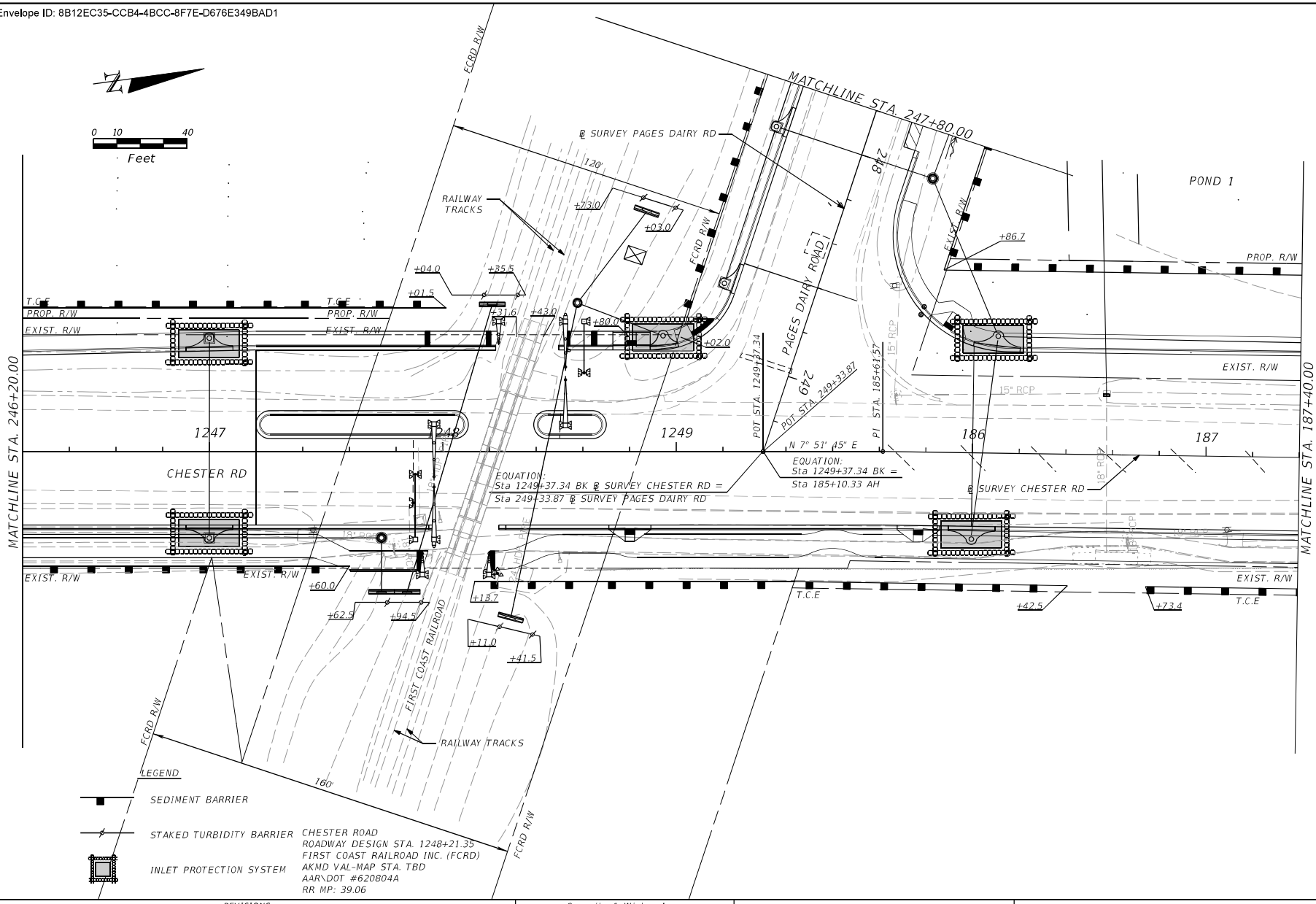

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Engineer of Record:
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FL P.E. No. 73903

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EROSION CONTROL PLAN SHEET

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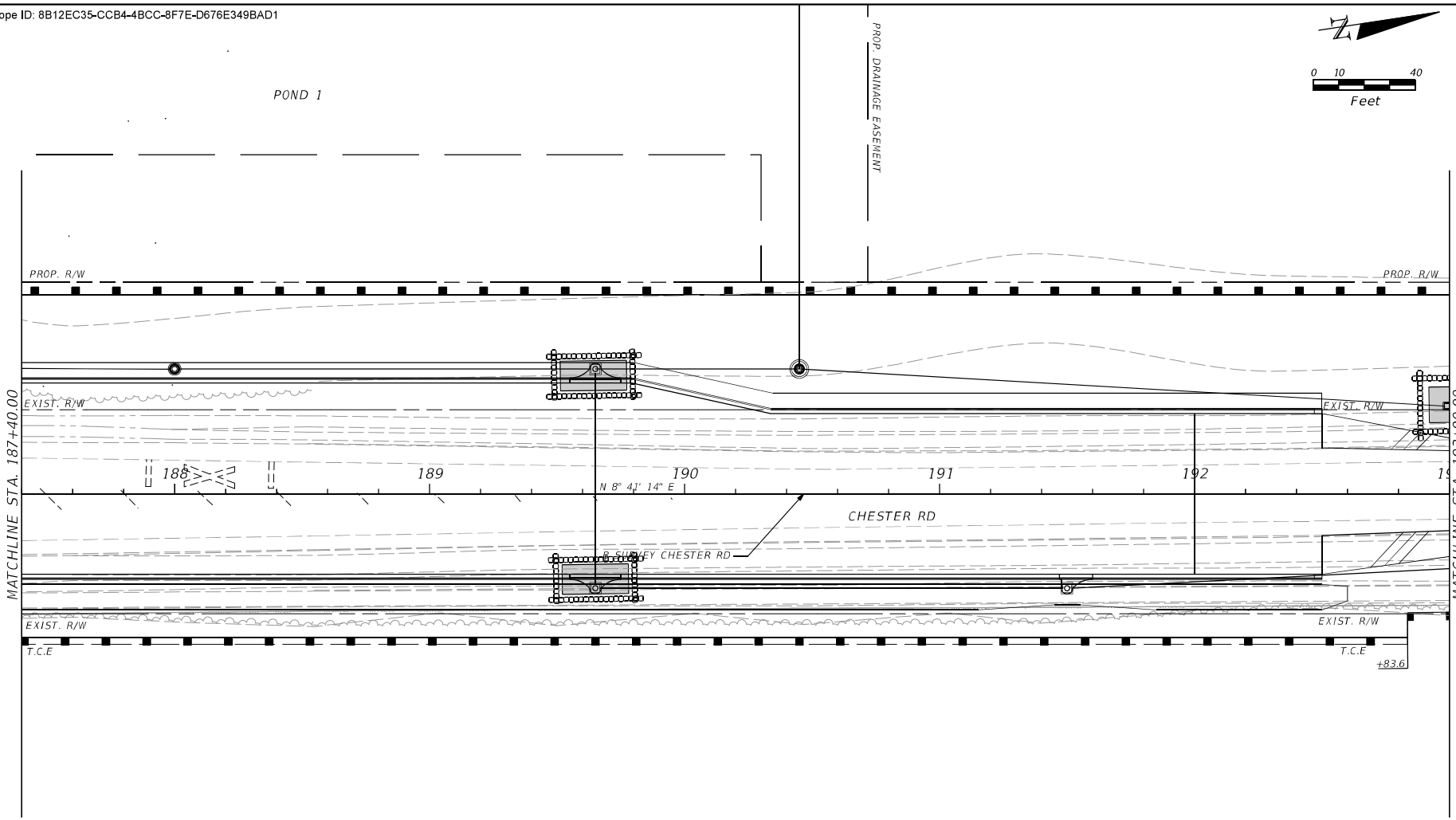

LEGEND

SEDIMENT BARRIER

INLET PROTECTION SYSTEM

REVISIONS			
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EROSION CONTROL PLAN SHEET

SHEET NO. 115

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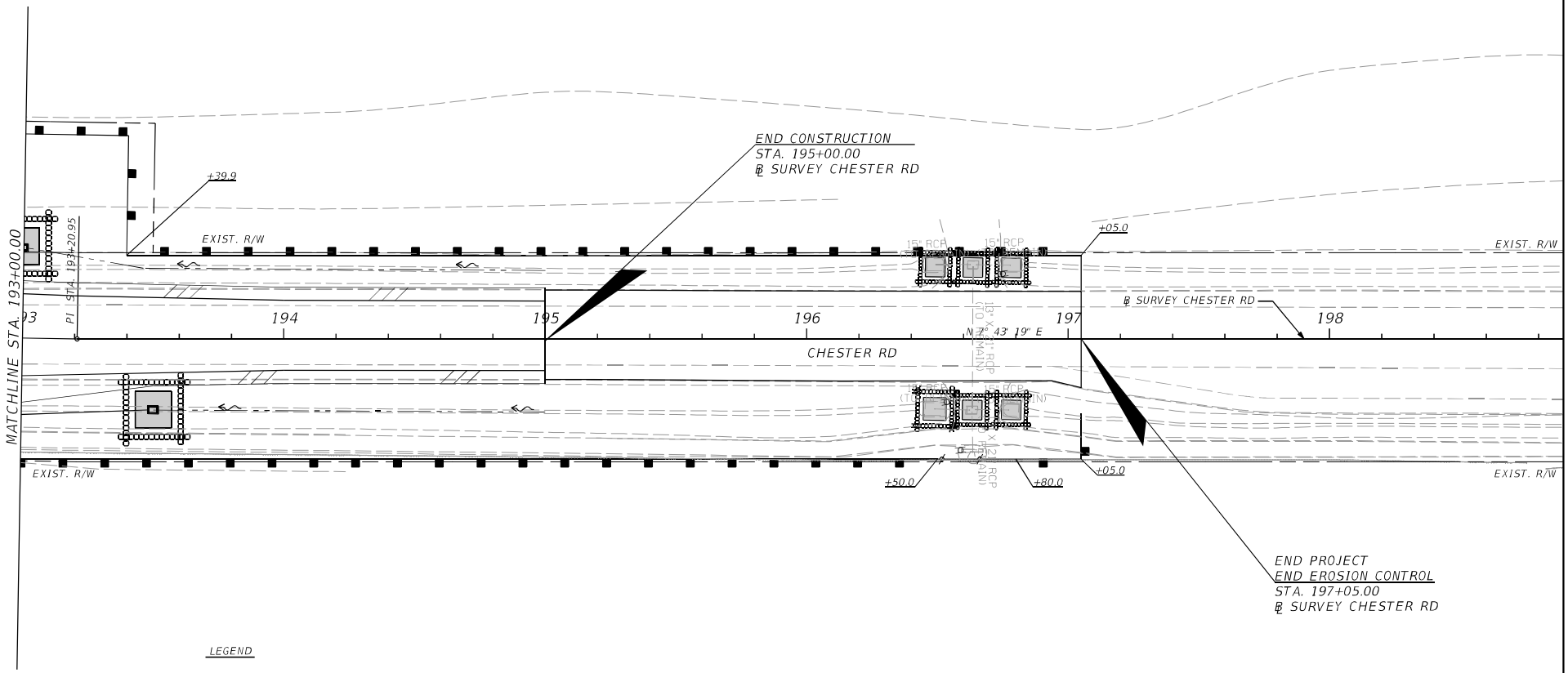

LEGEND

- SEDIMENT BARRIER
- STAKED TURBIDITY BARRIER
- INLET PROTECTION SYSTEM

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EROSION CONTROL PLAN SHEET

SHEET NO. 116

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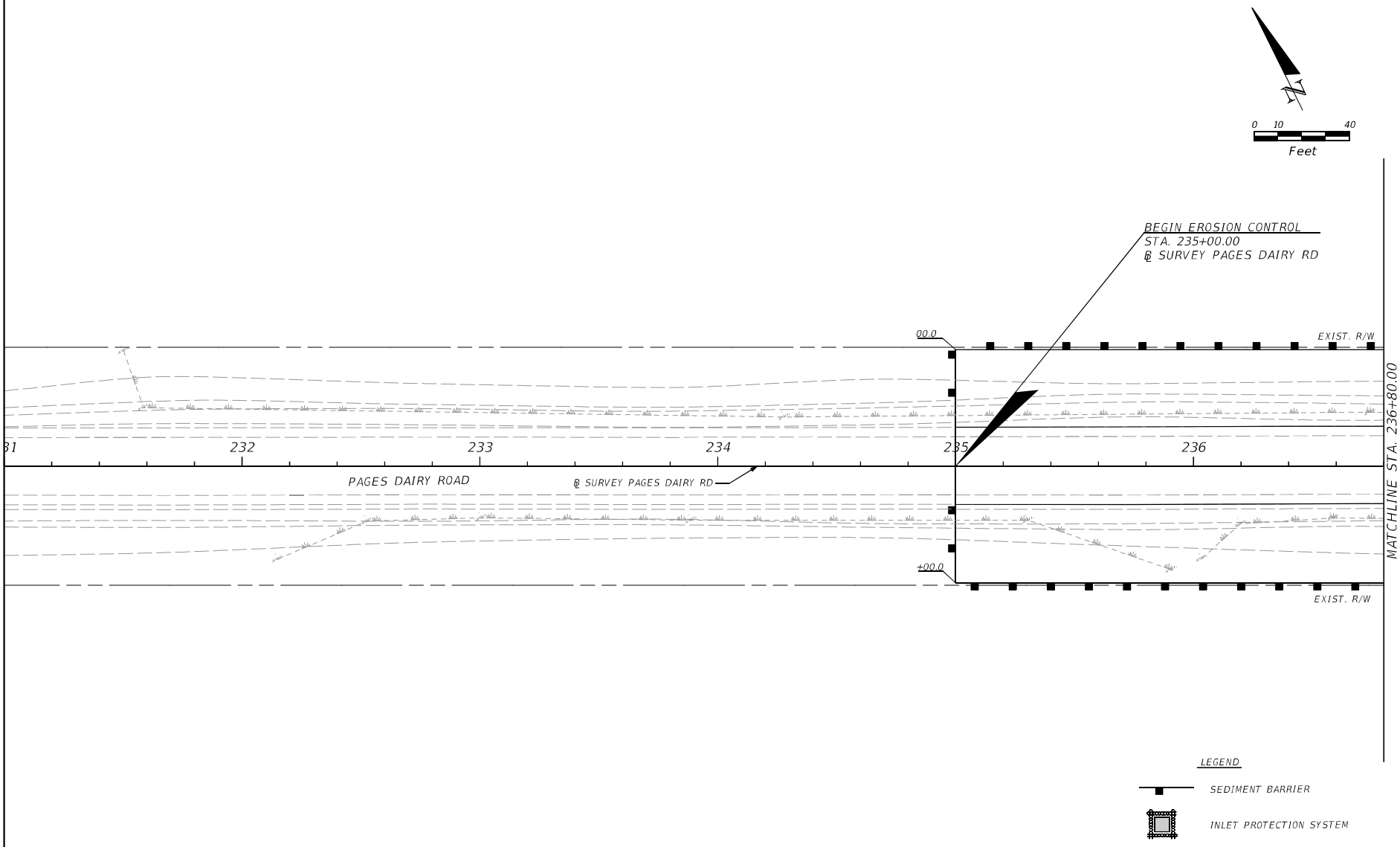

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EROSION CONTROL PLAN SHEET

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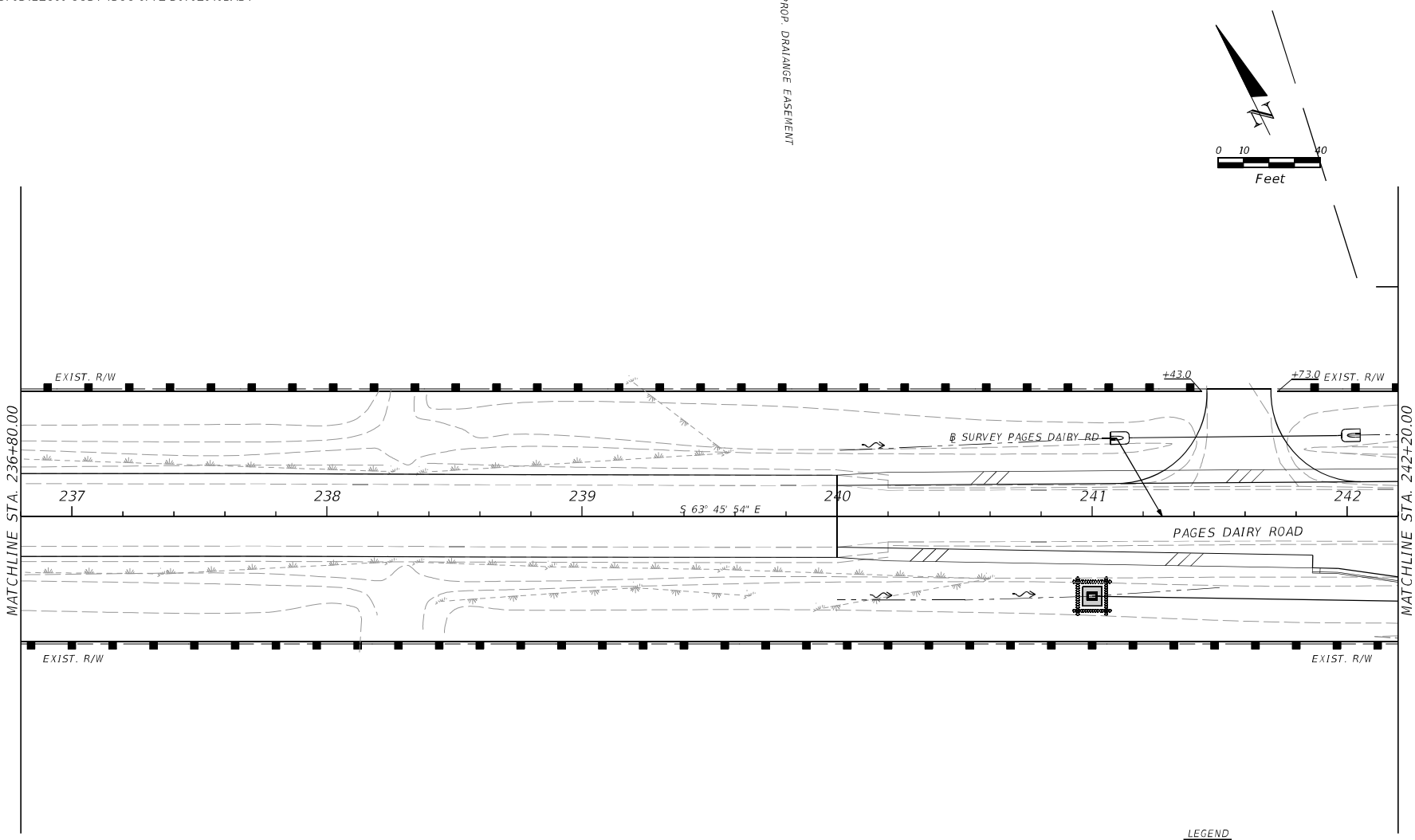

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EROSION CONTROL PLAN SHEET

SHEET NO. 118

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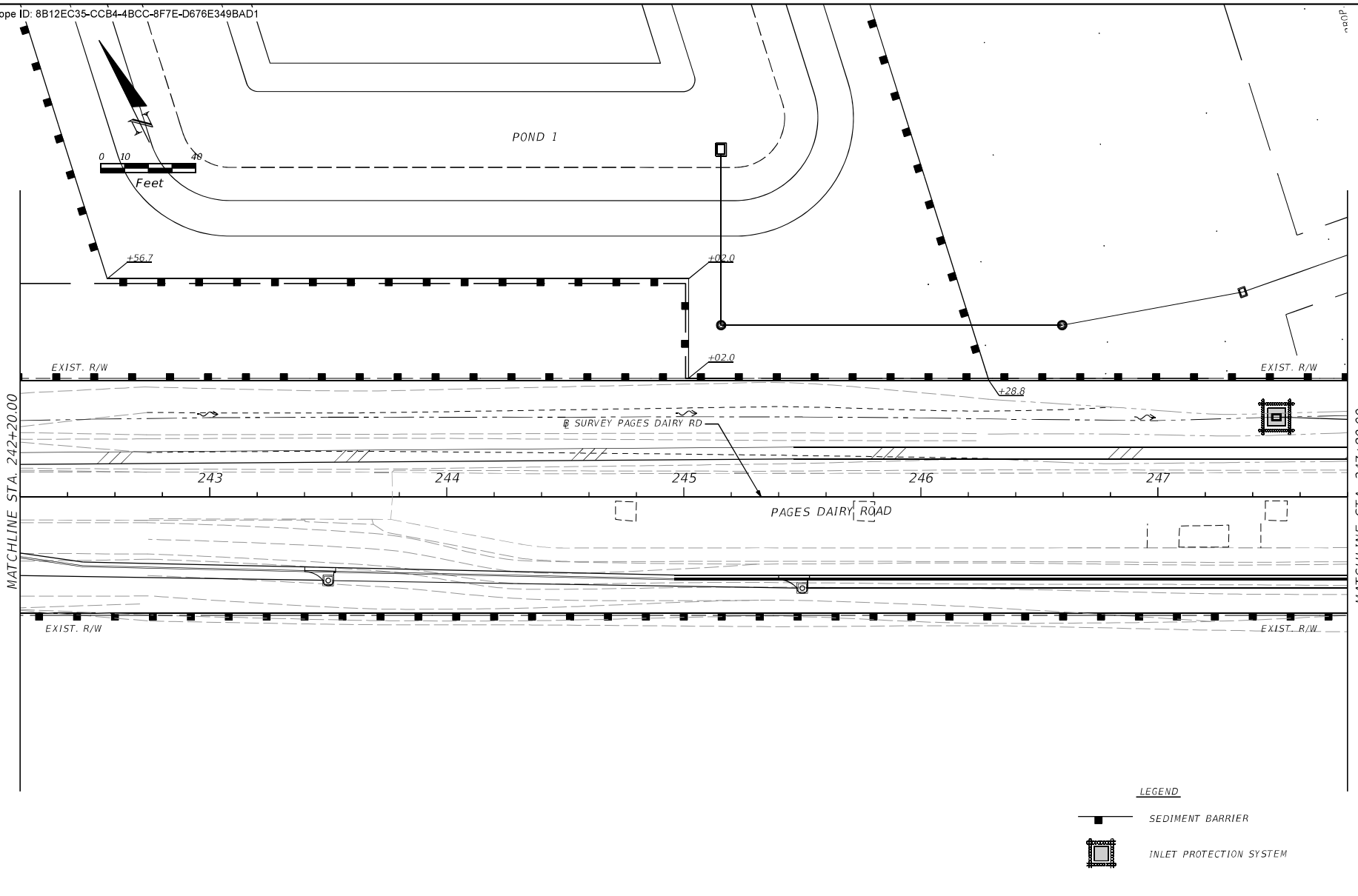

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EROSION CONTROL PLAN SHEET

SHEET NO. 119

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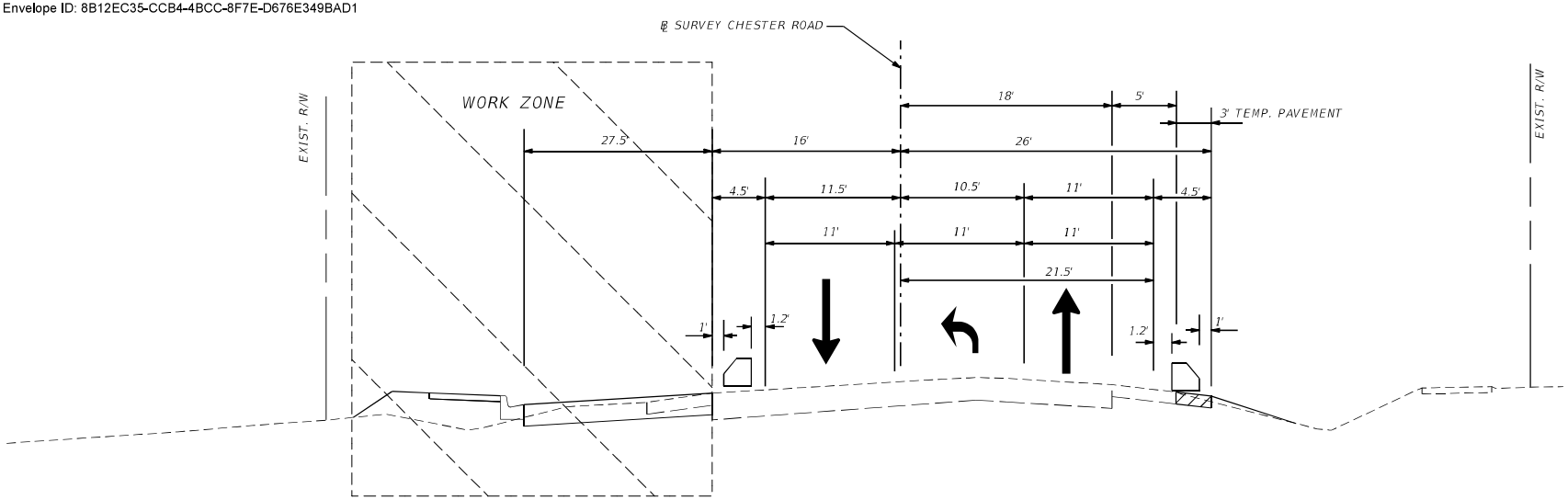
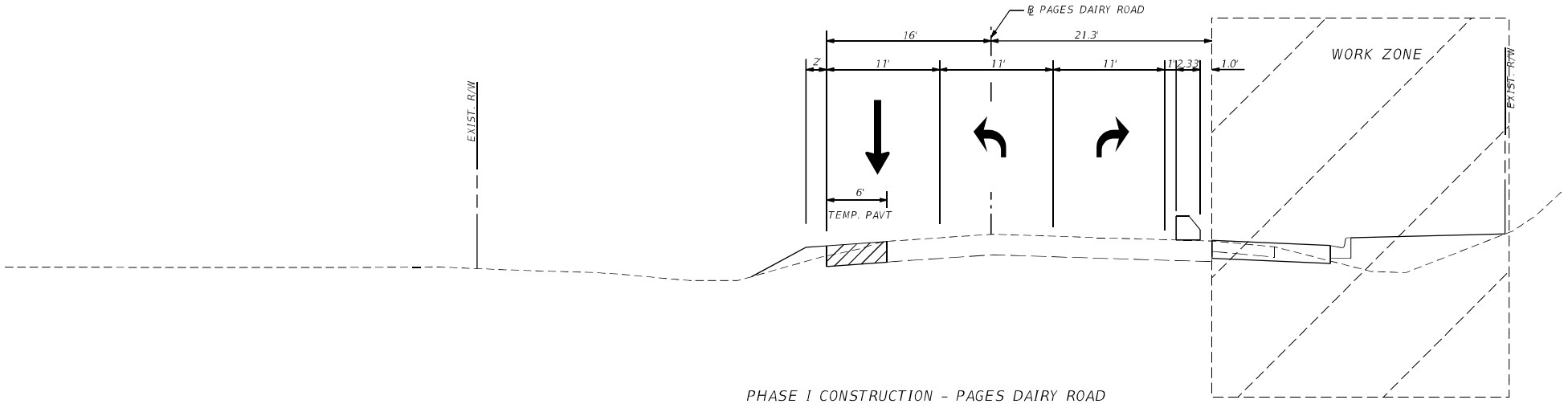


PHASE I CONSTRUCTION - CHESTER ROAD SOUTH OF RAILROAD

FIRST COAST RAILROAD EFFORT FOR PHASE 1:
1. INSTALL SHORTENED NB GATE
2. INSTALL LENGTHENED SB GATE



PHASE I CONSTRUCTION - PAGES DAIRY ROAD

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	

TRAFFIC CONTROL PLANS
TYPICAL SECTIONS

SHEET NO. 120

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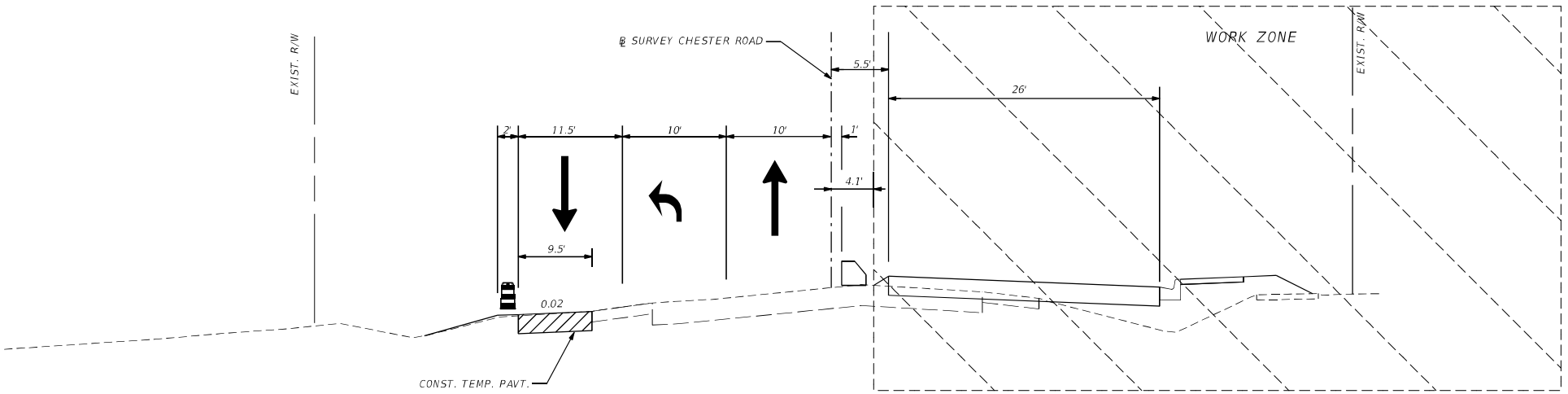
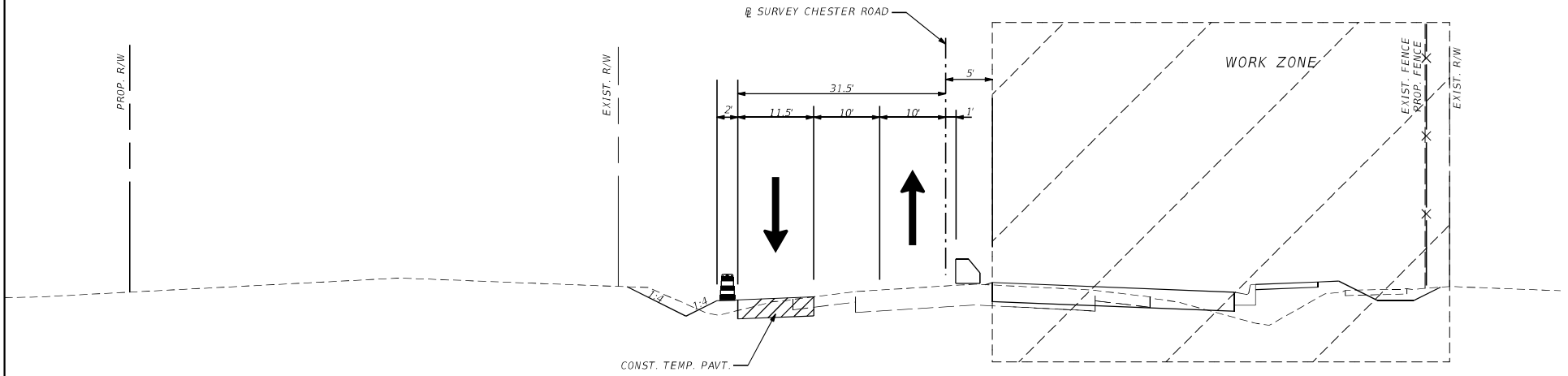


FIRST COAST RAILROAD EFFORT FOR PHASE 2:
1. INSTALL SB GATE, CANTILEVER SIGNAL, AND SIDEWALK GATE
2. INSTALL NB TEMPORARY GATE

PHASE II CONSTRUCTION - CHESTER ROAD SOUTH OF RAILROAD



PHASE II CONSTRUCTION - CHESTER ROAD NORTH OF PAGES DAIRY ROAD

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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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	

TRAFFIC CONTROL PLANS TYPICAL SECTIONS

SHEET NO. 121

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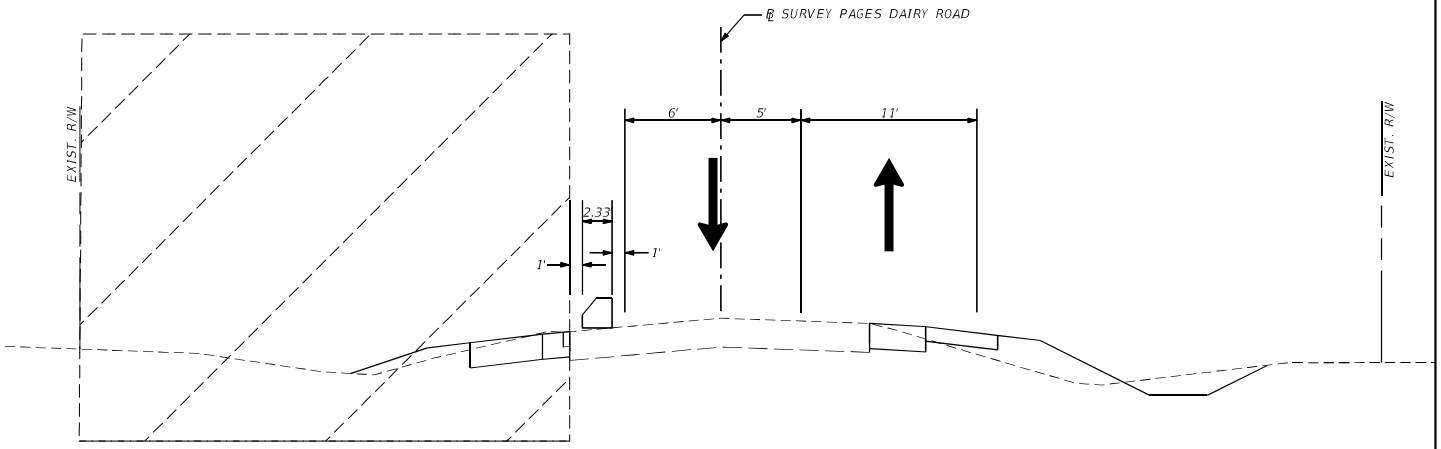
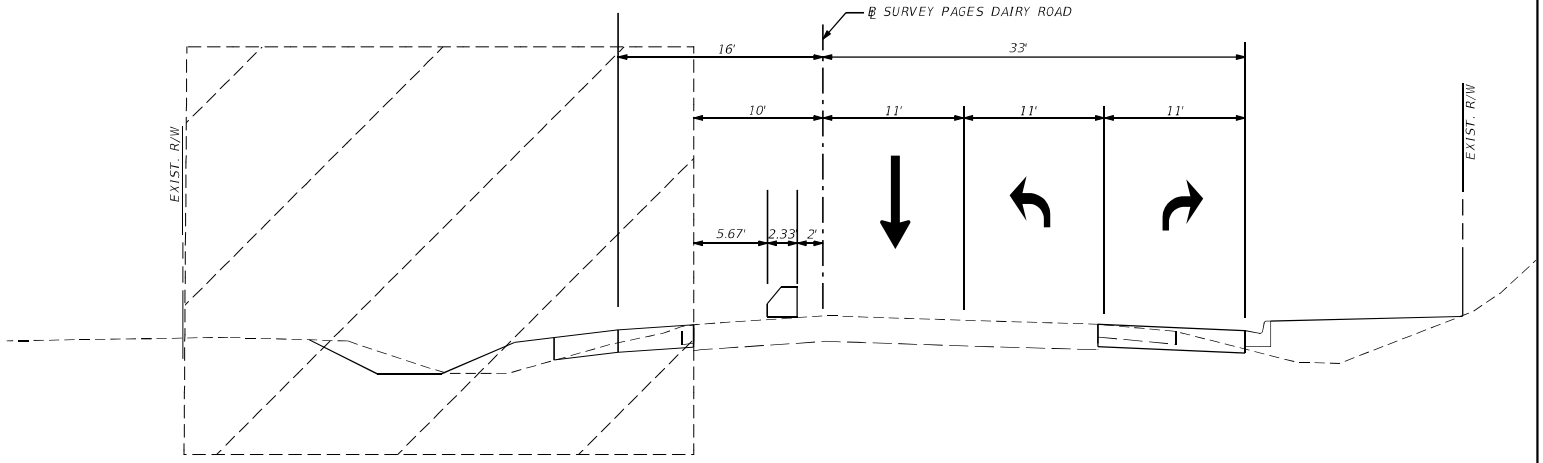


PHASE II CONSTRUCTION – PAGES DAIRY ROAD
STA. 240+00 TO STA. 242+00



PHASE II CONSTRUCTION – PAGES DAIRY ROAD
STA. 242+00 TO STA. 248+90

REVISIONS			
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. 122

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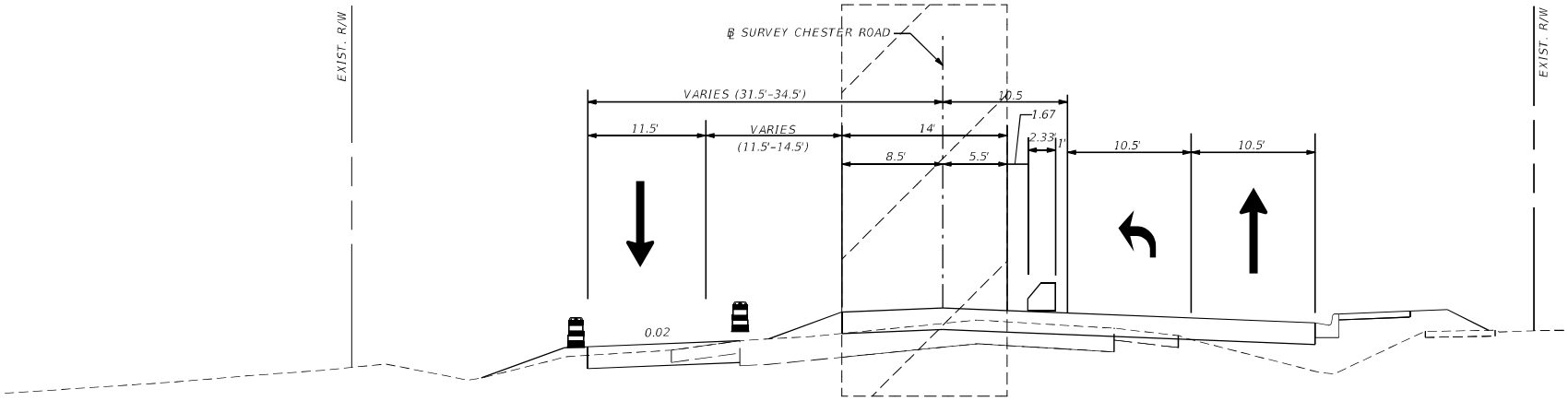
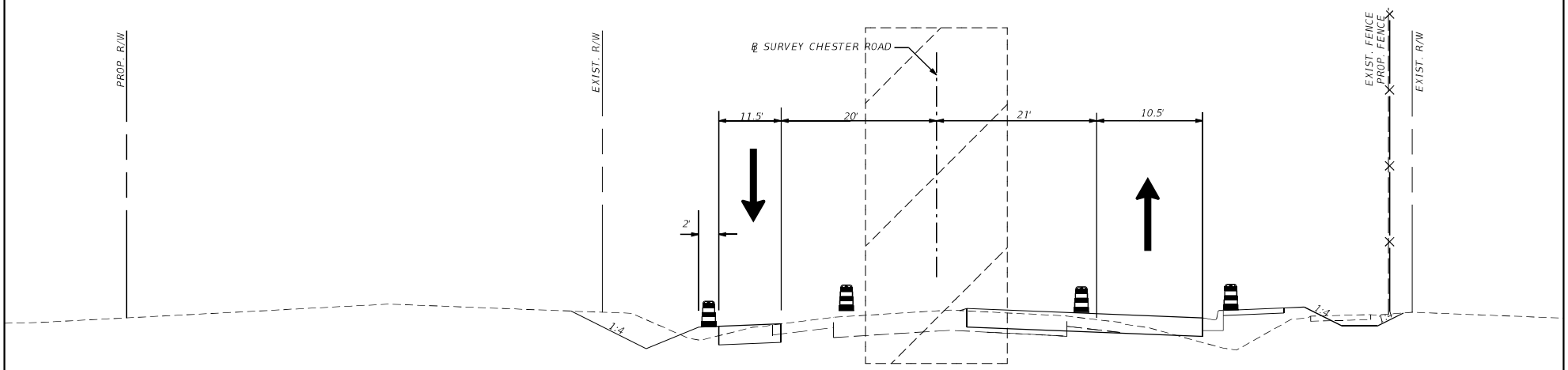


PHASE III CONSTRUCTION - CHESTER ROAD SOUTH OF RAILROAD

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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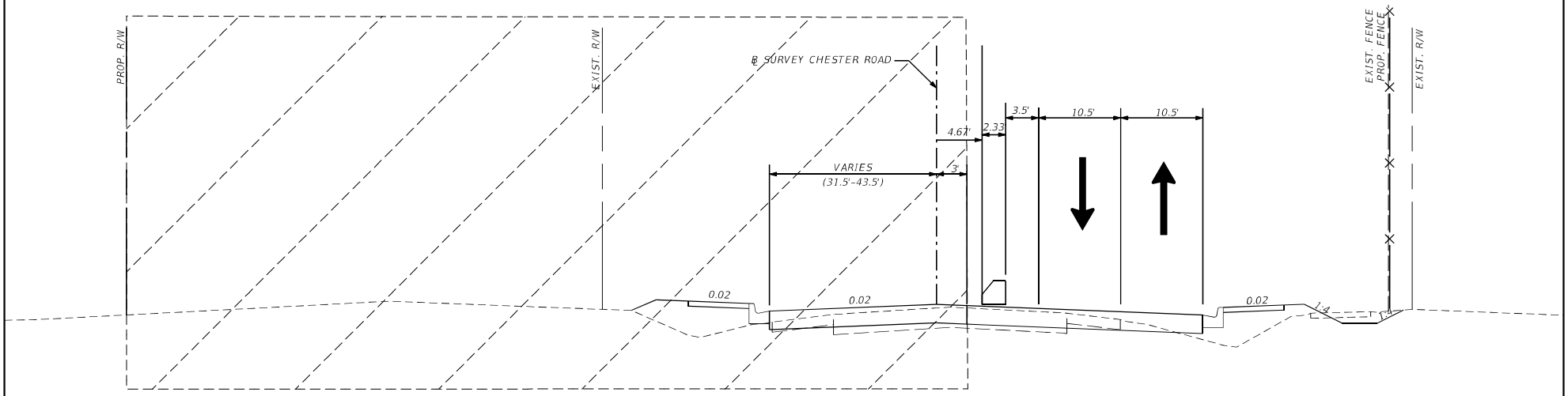
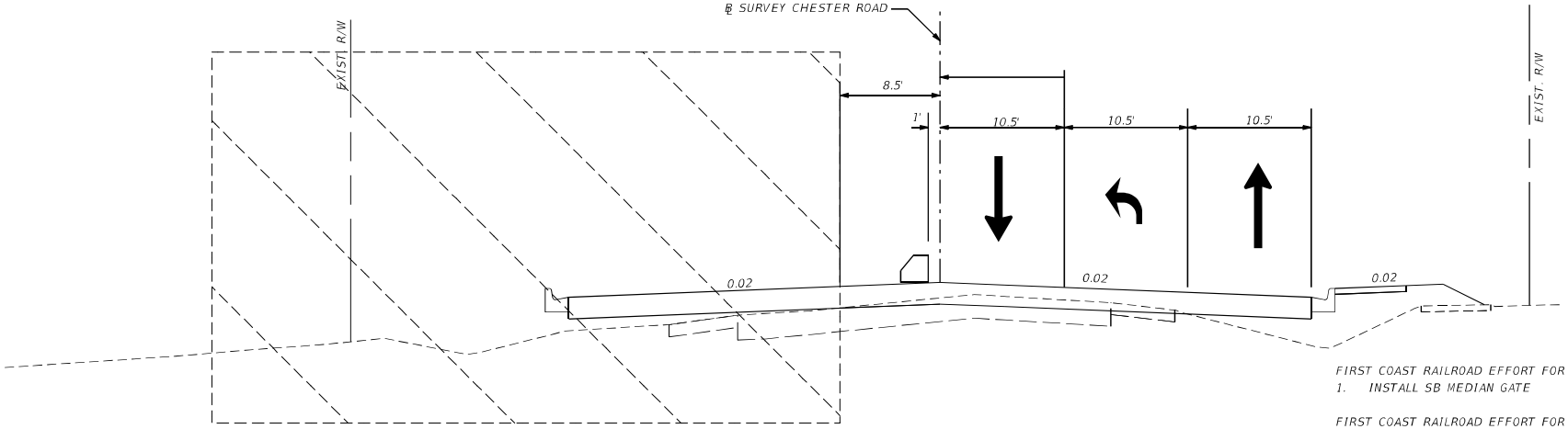


PHASE IV CONSTRUCTION - CHESTER ROAD NORTH OF PAGES DAIRY ROAD



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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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. 124

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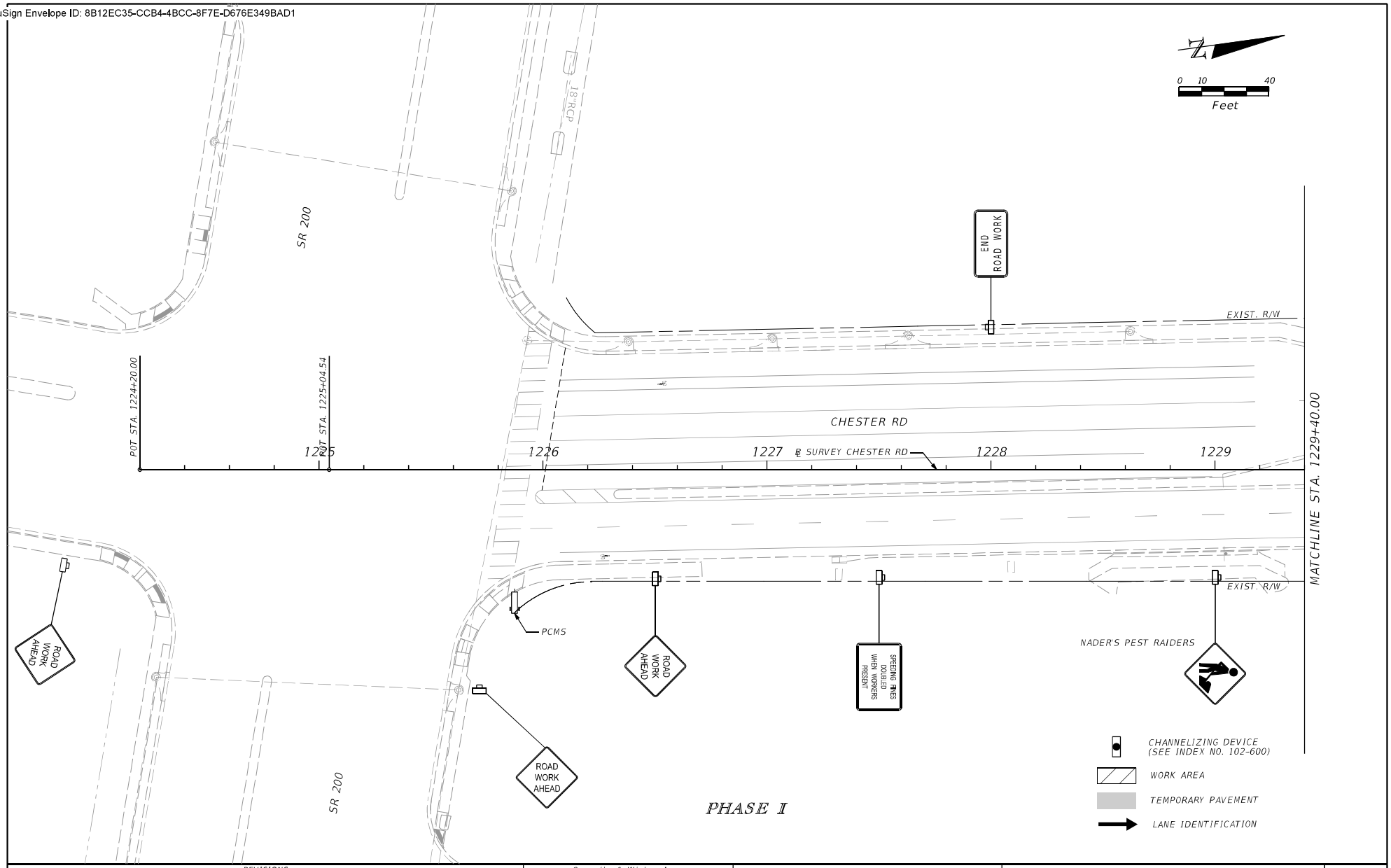

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Certification of Authorization No. 3650

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. 125

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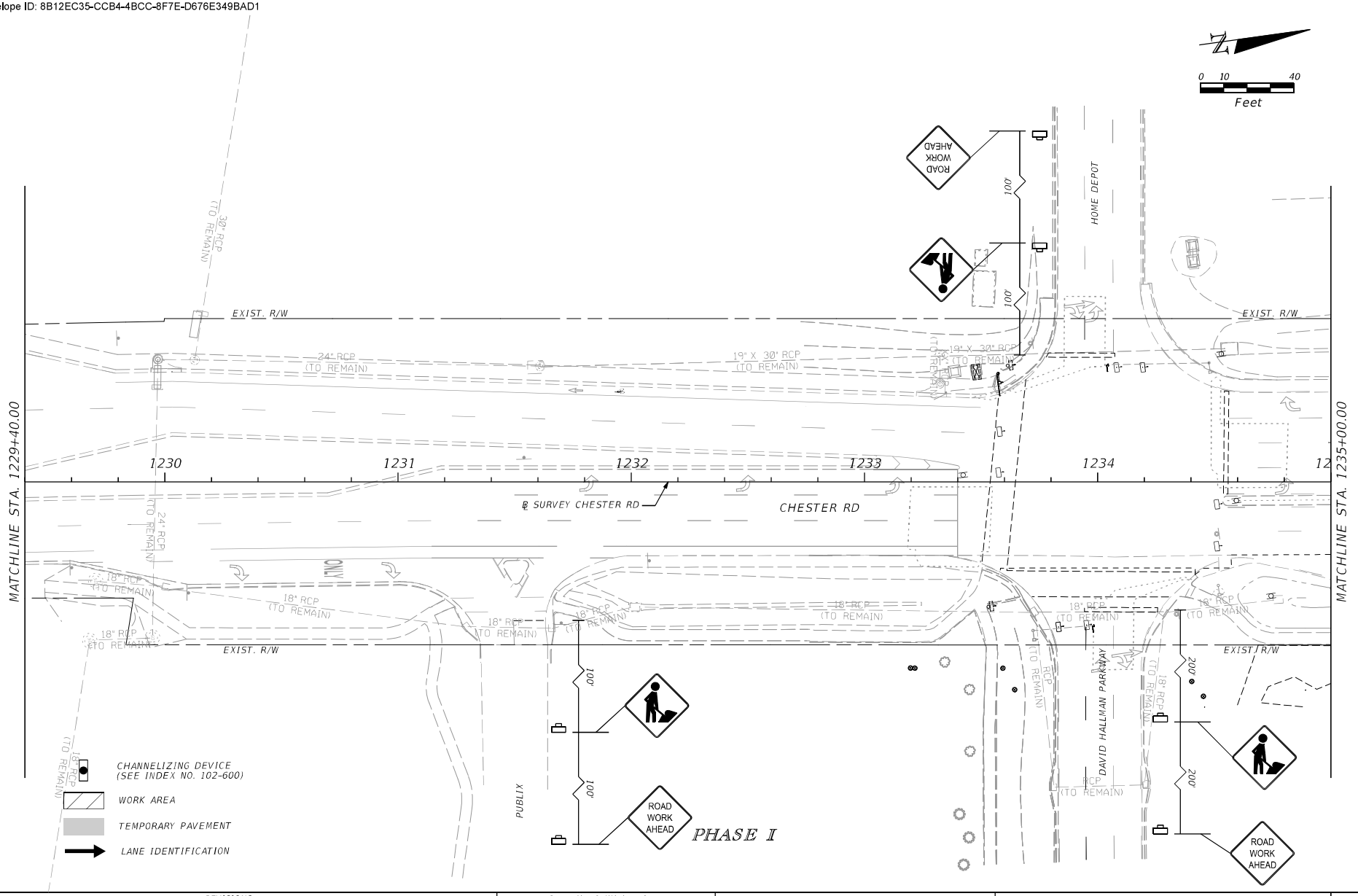

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Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

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. 126

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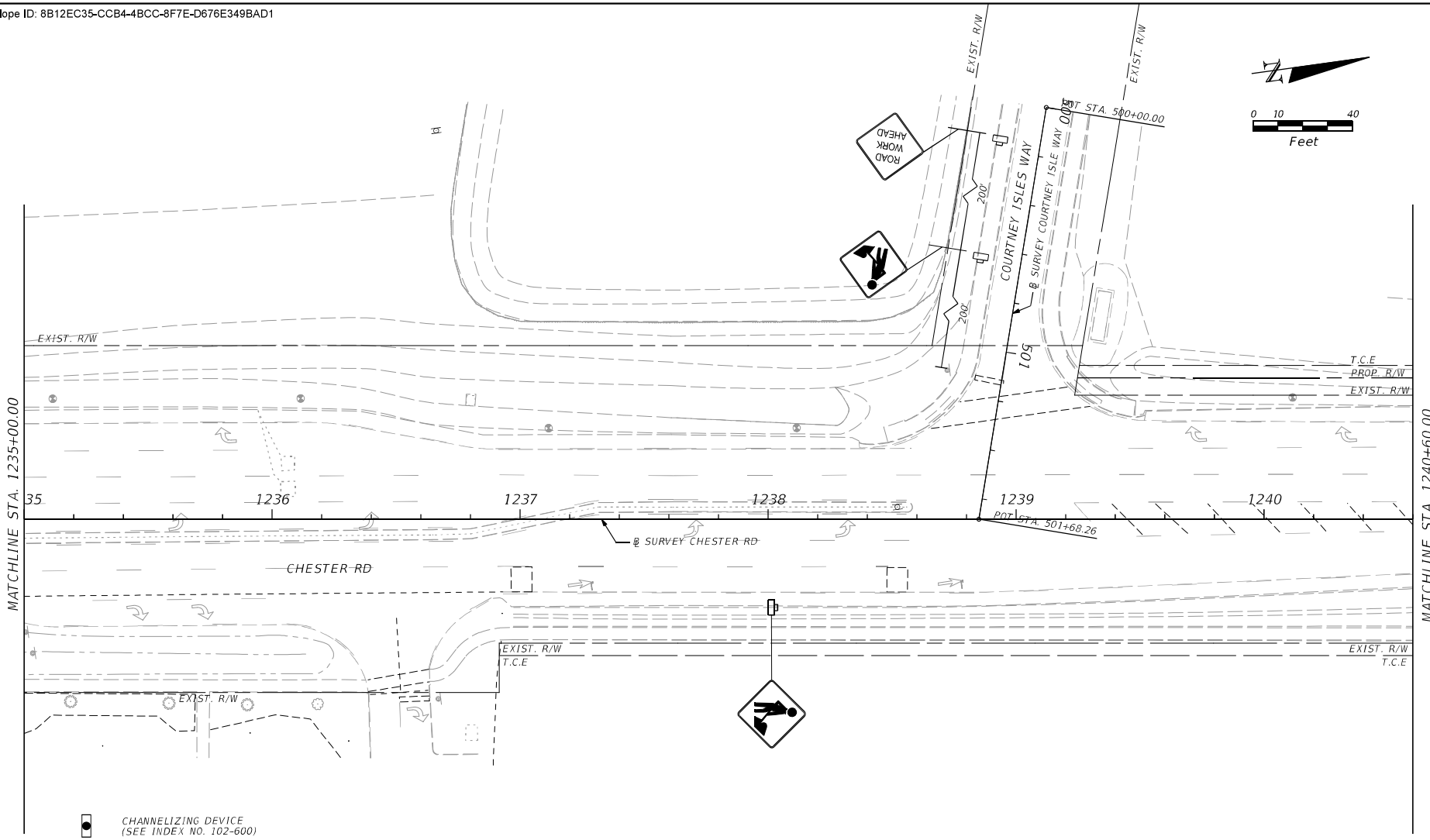

PHASE I

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:
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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. 127

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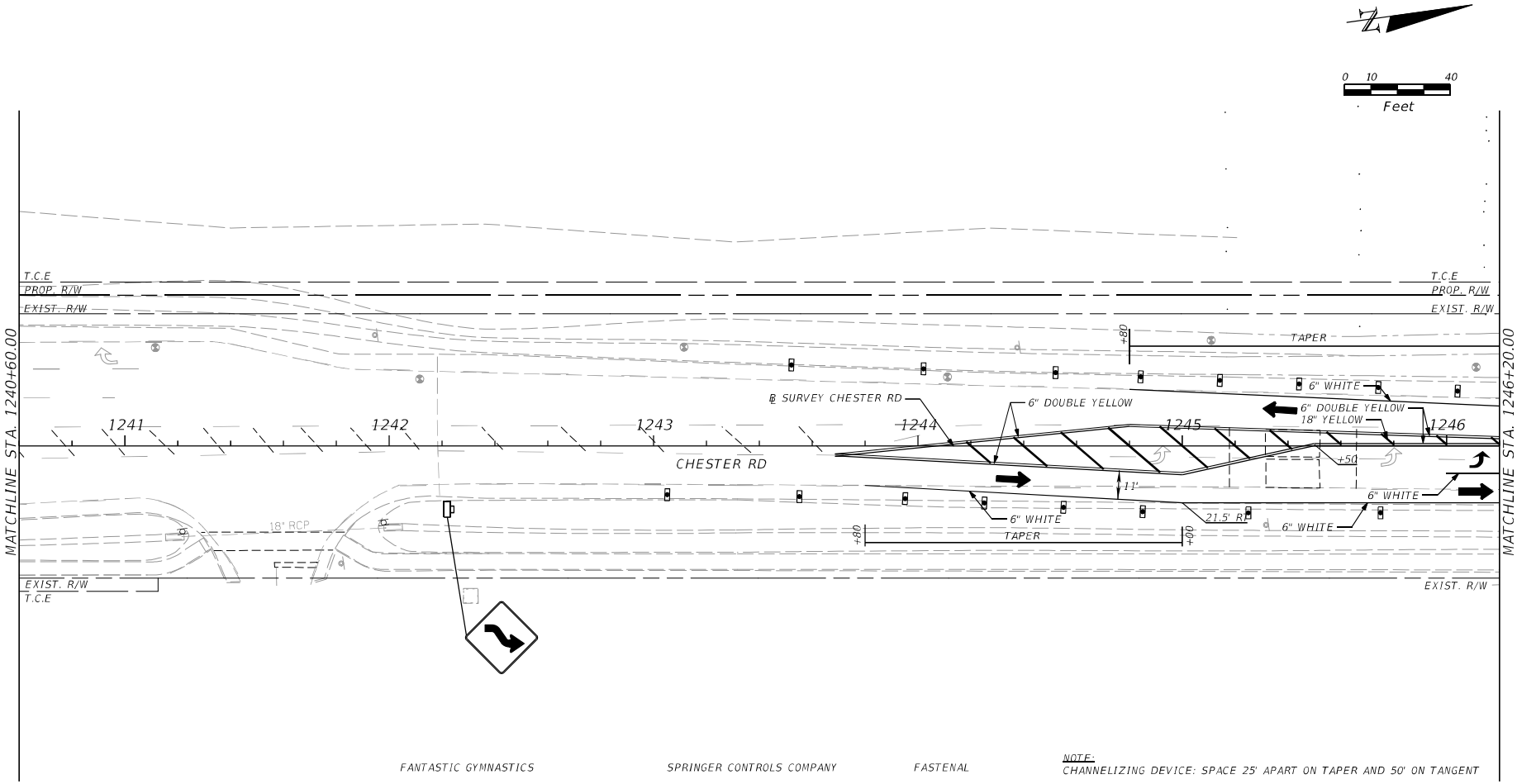

NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

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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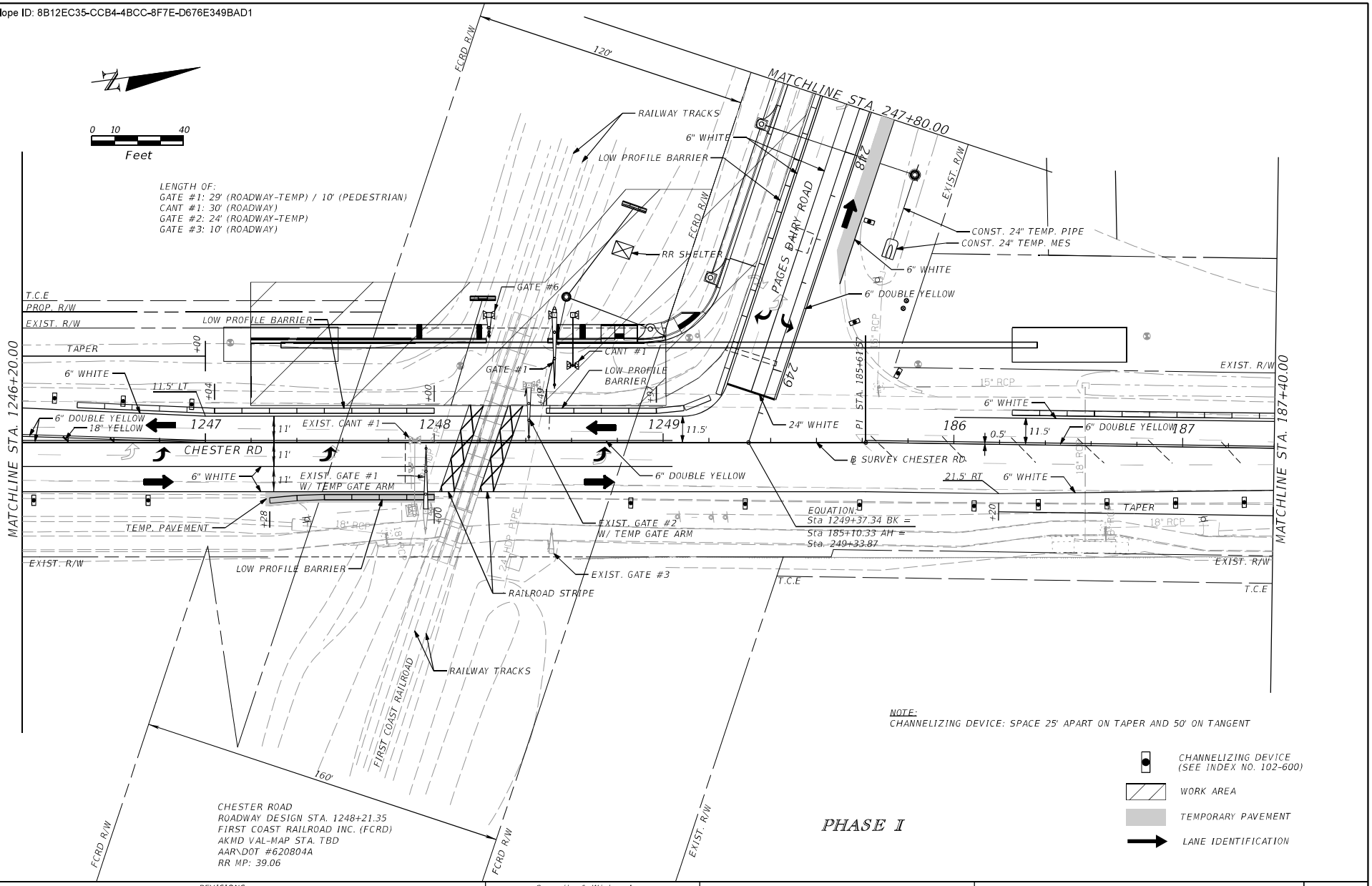

REVISIONS			
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10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

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. 129

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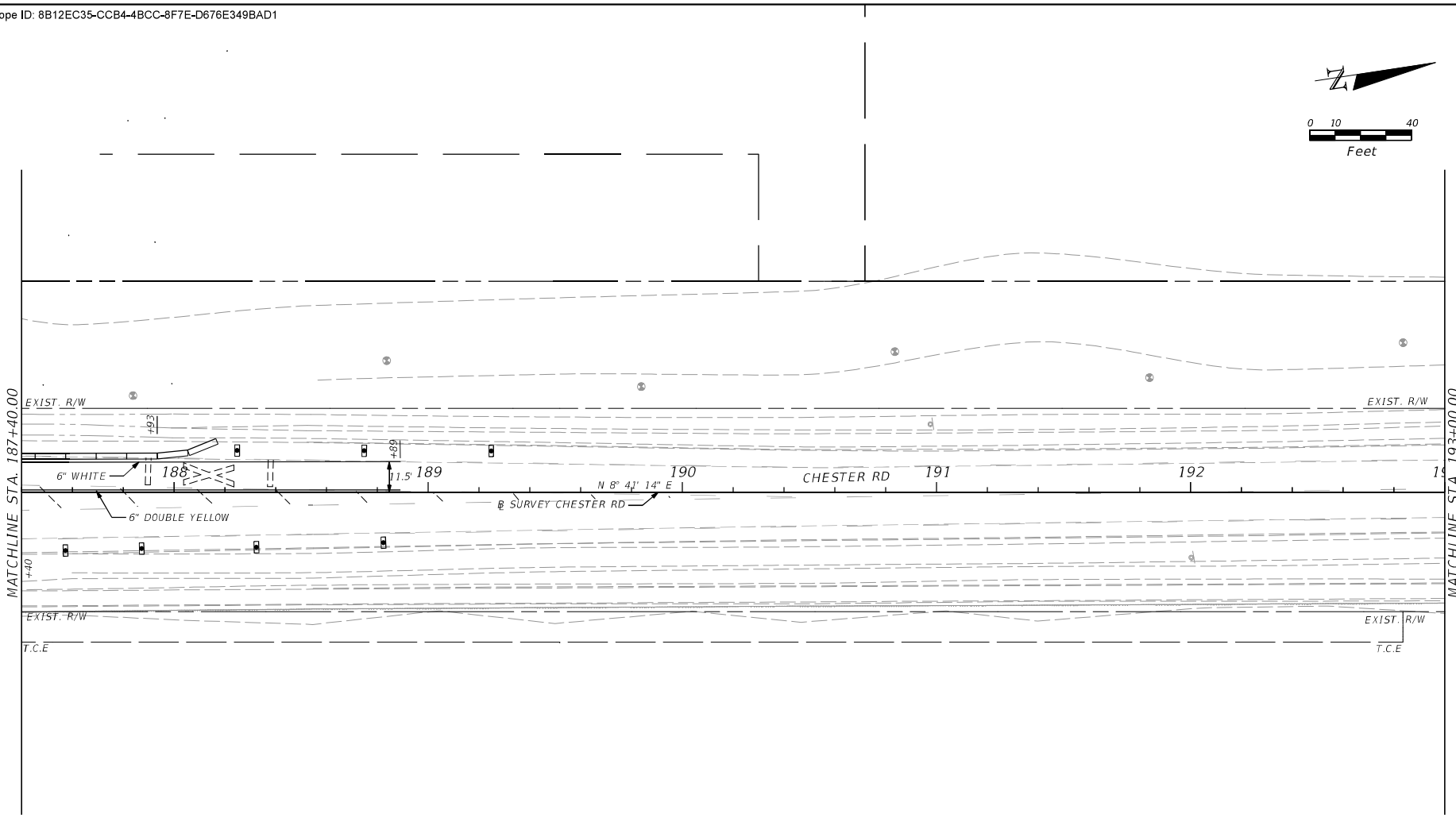

CHANNELIZING DEVICE
(SEE INDEX NO. 102-600)

WORK AREA

TEMPORARY PAVEMENT

LANE IDENTIFICATION

NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

PHASE I

REVISIONS			
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. 130

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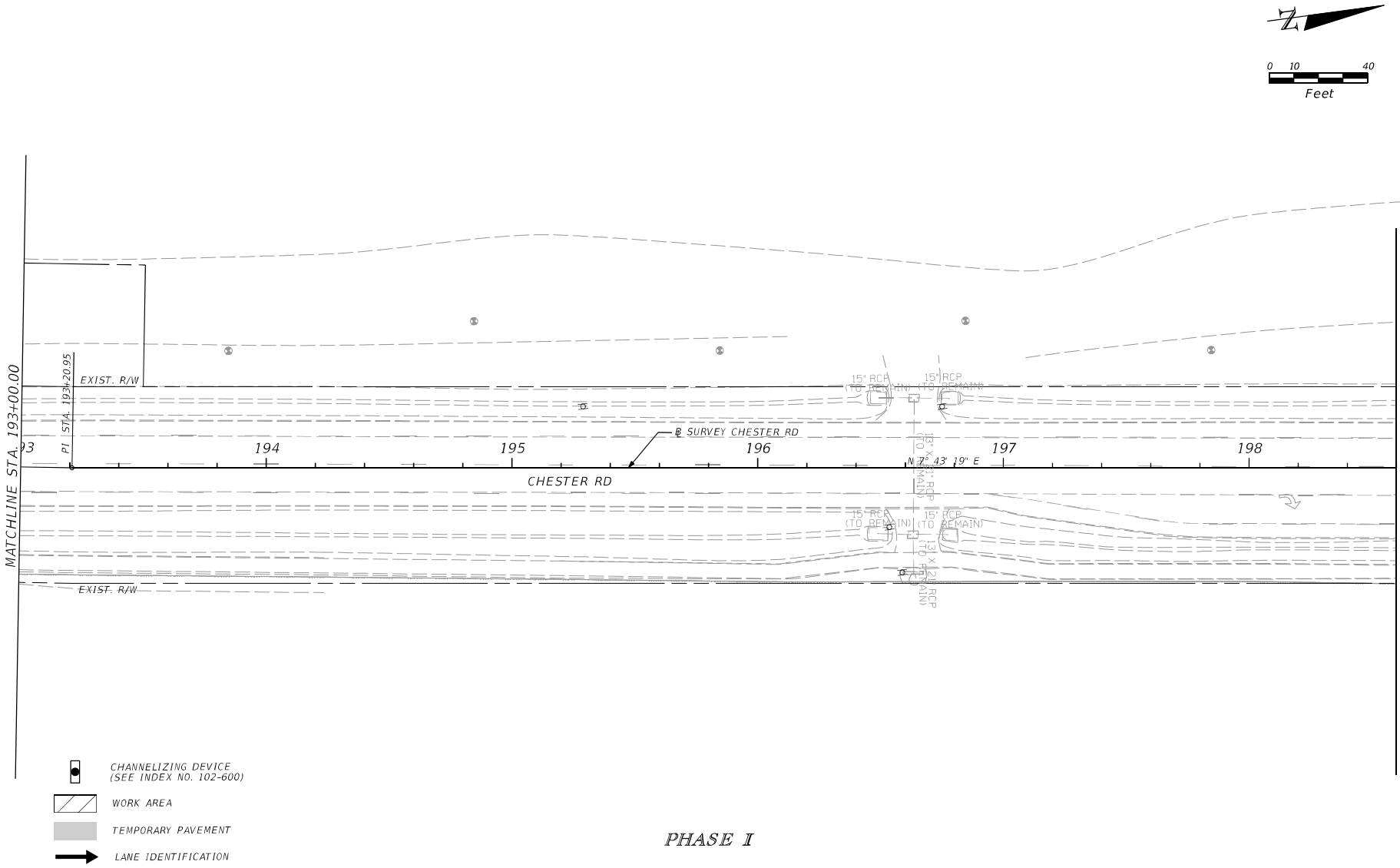

PHASE I

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. 131

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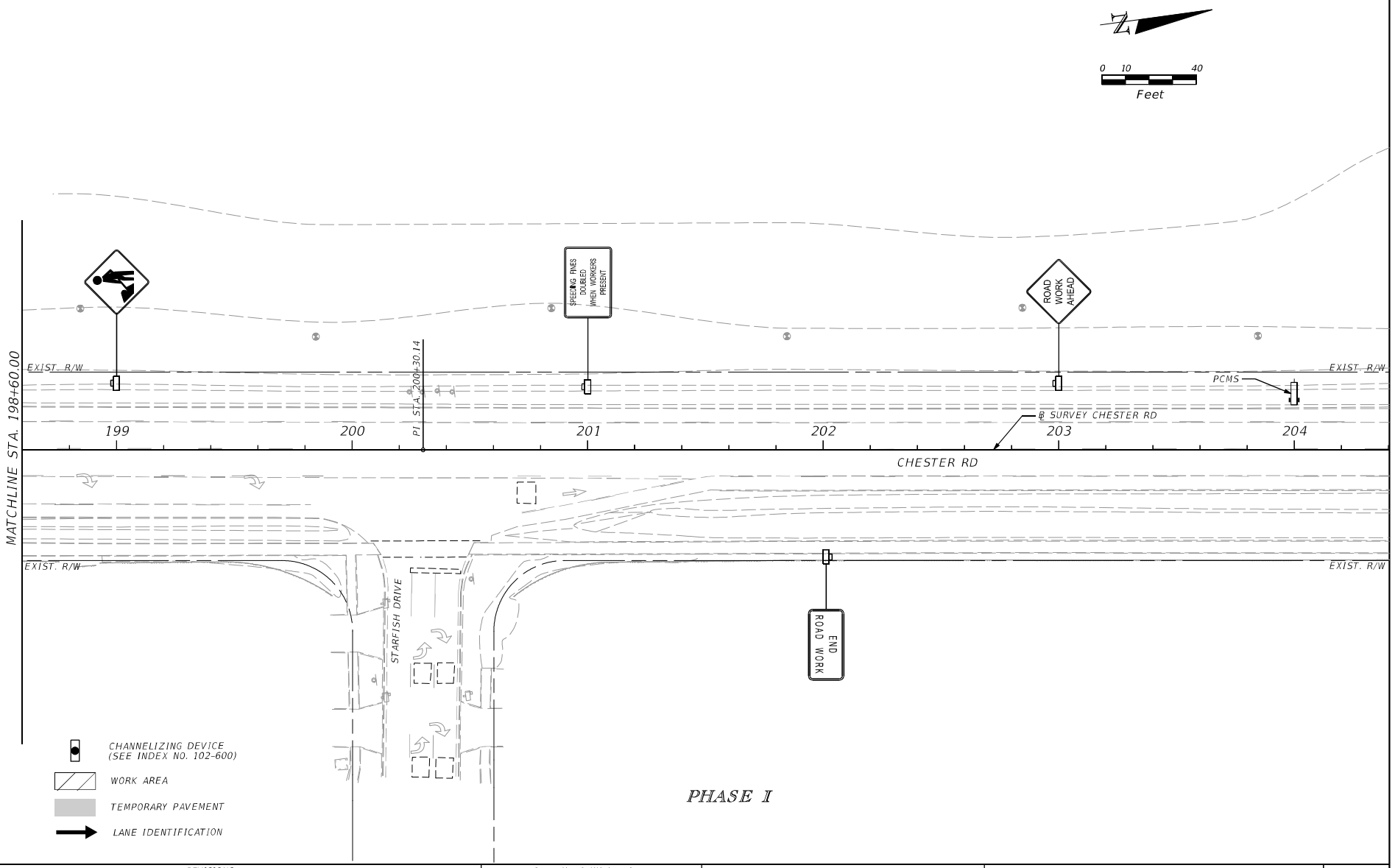

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 132

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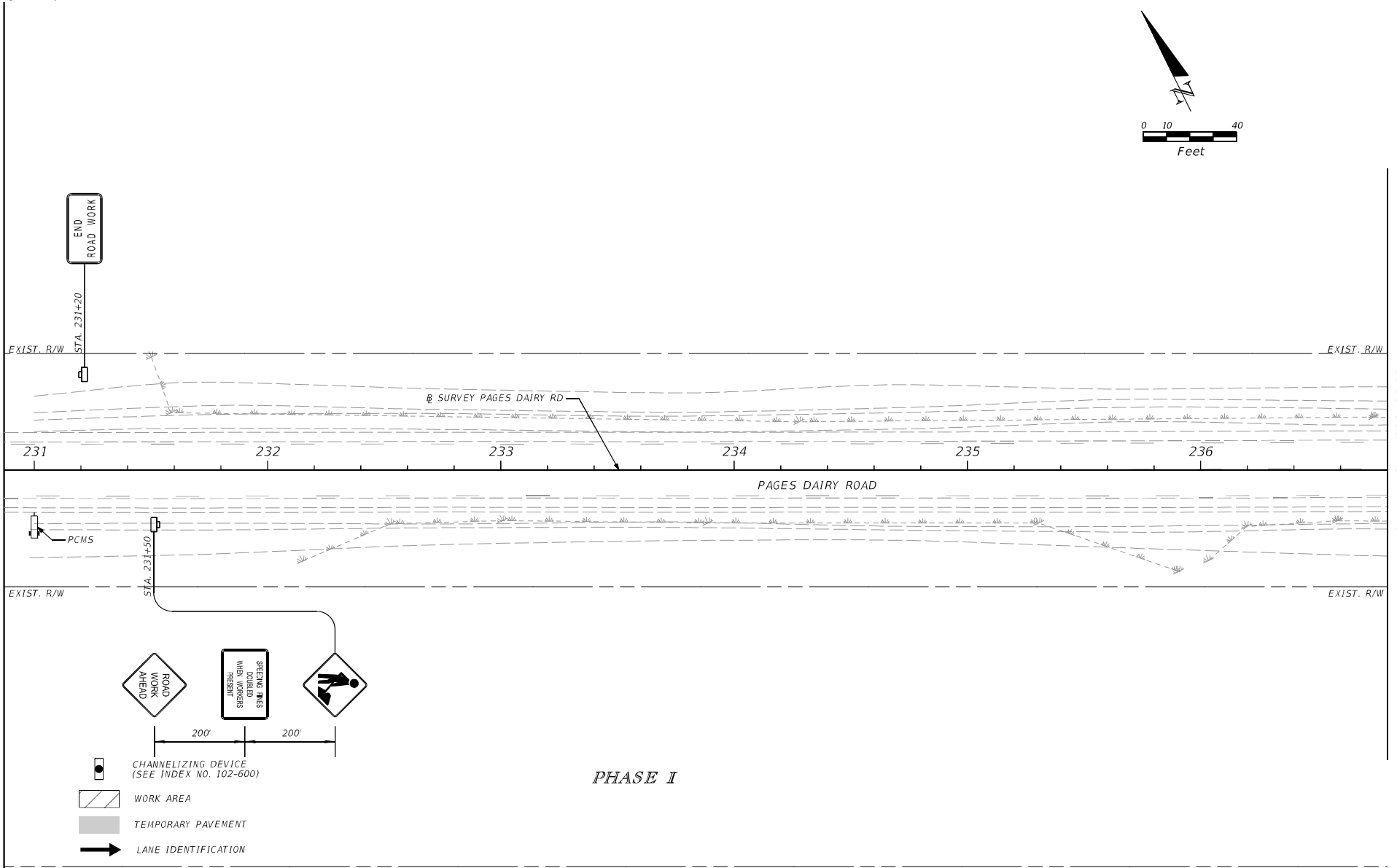

PHASE I

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REVISIONS			
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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	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 133

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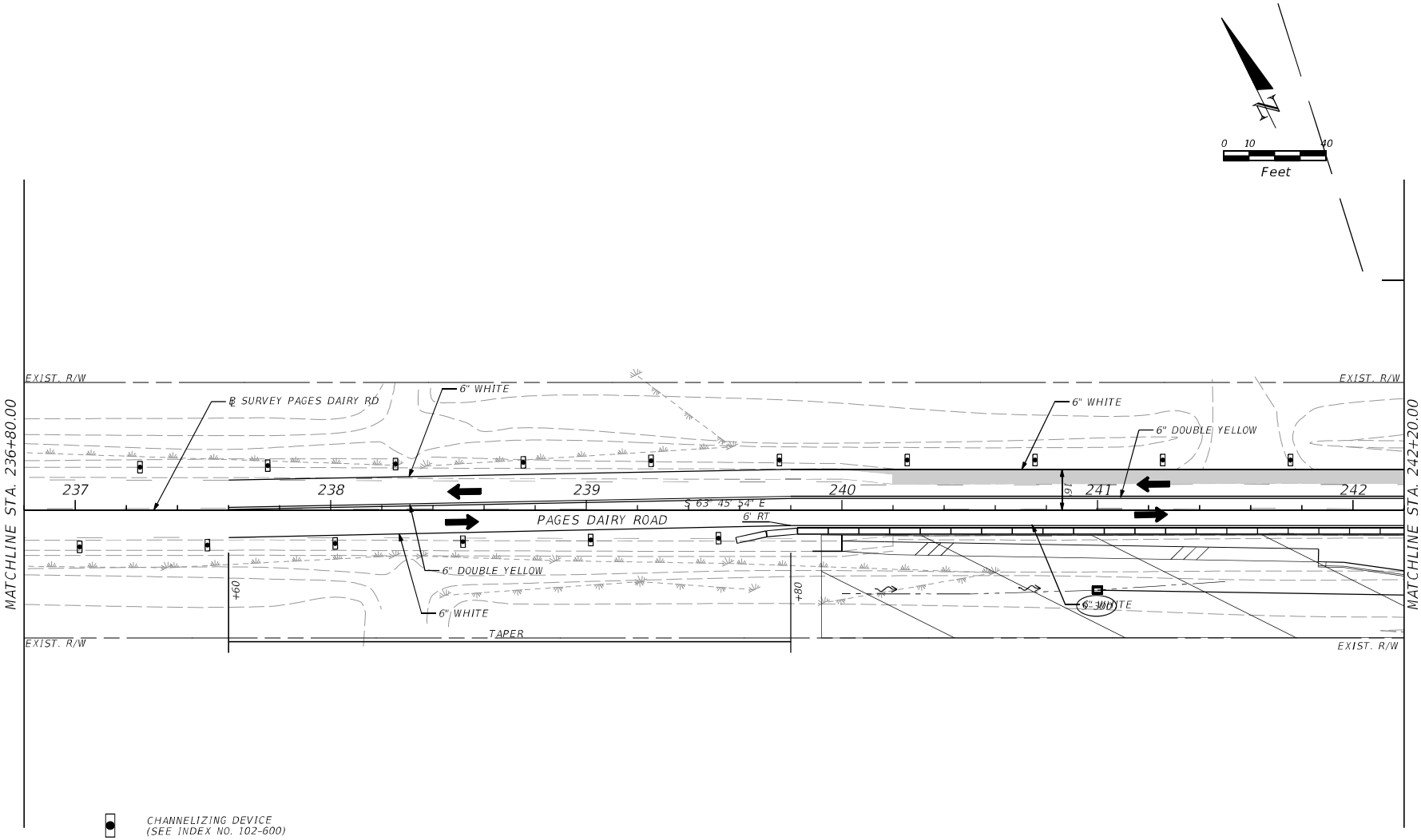

CHANNELIZING DEVICE (SEE INDEX NO. 102-600)

WORK AREA

TEMPORARY PAVEMENT

LANE IDENTIFICATION

NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

PHASE I

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. 134

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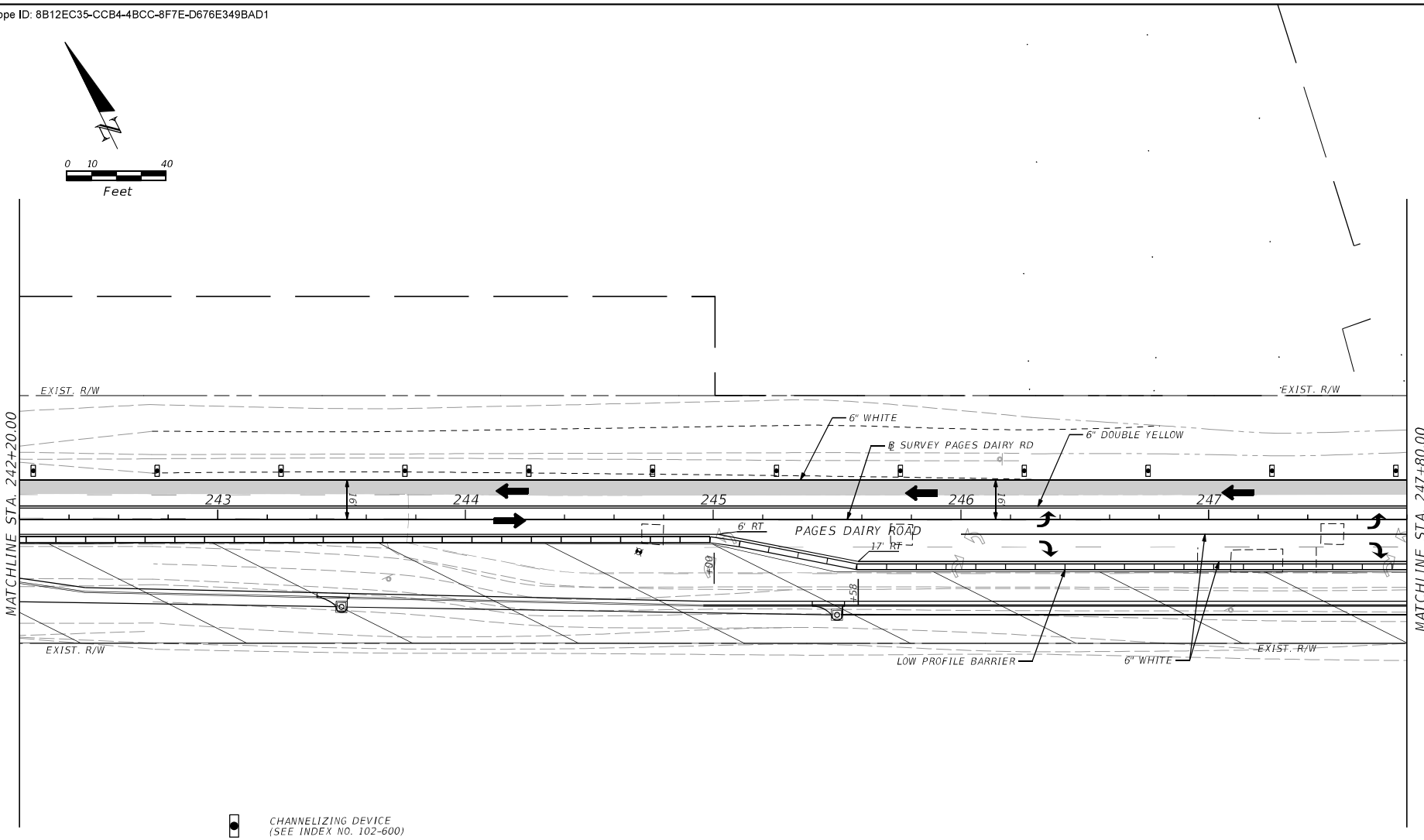

NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

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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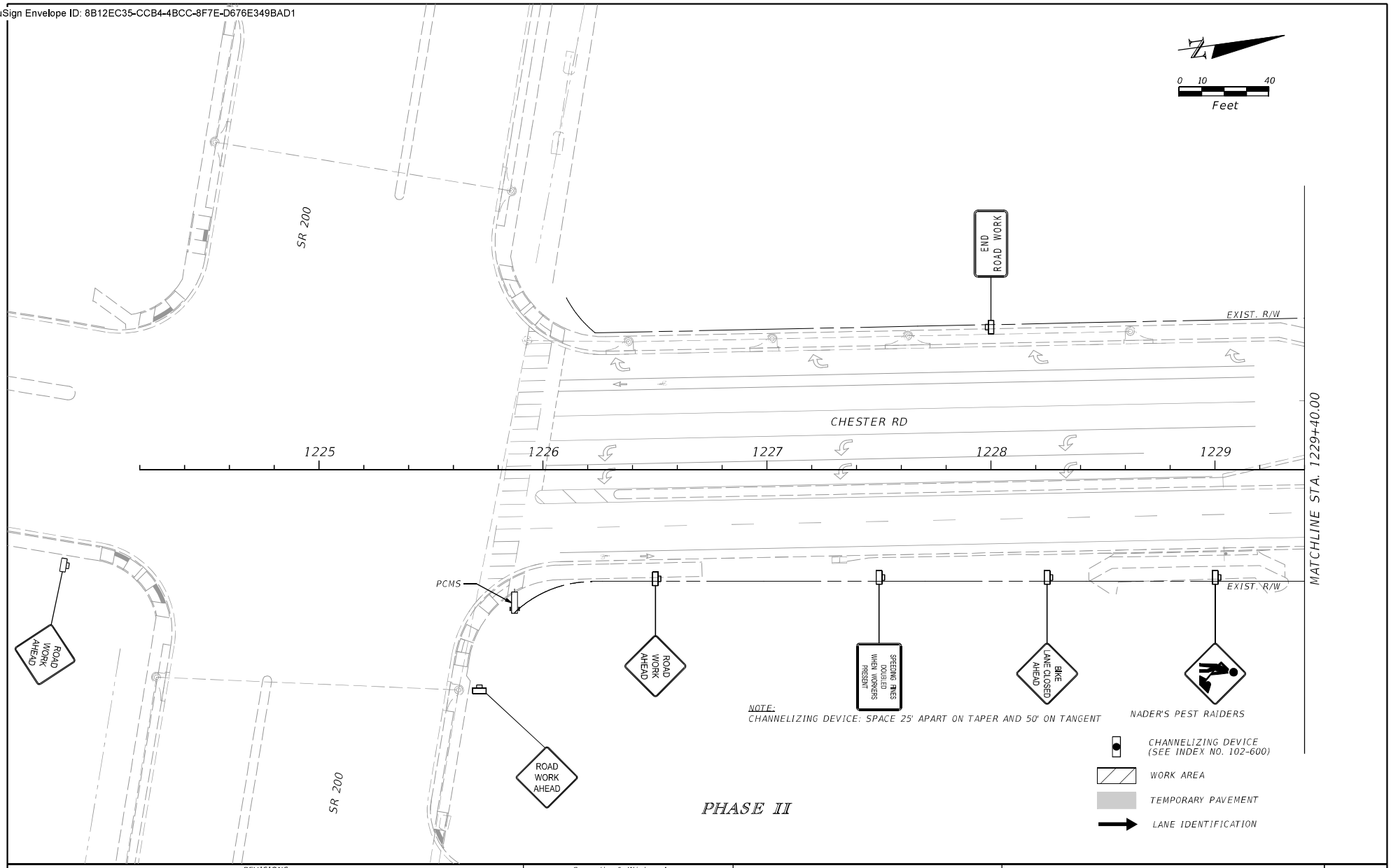

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Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
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FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 136

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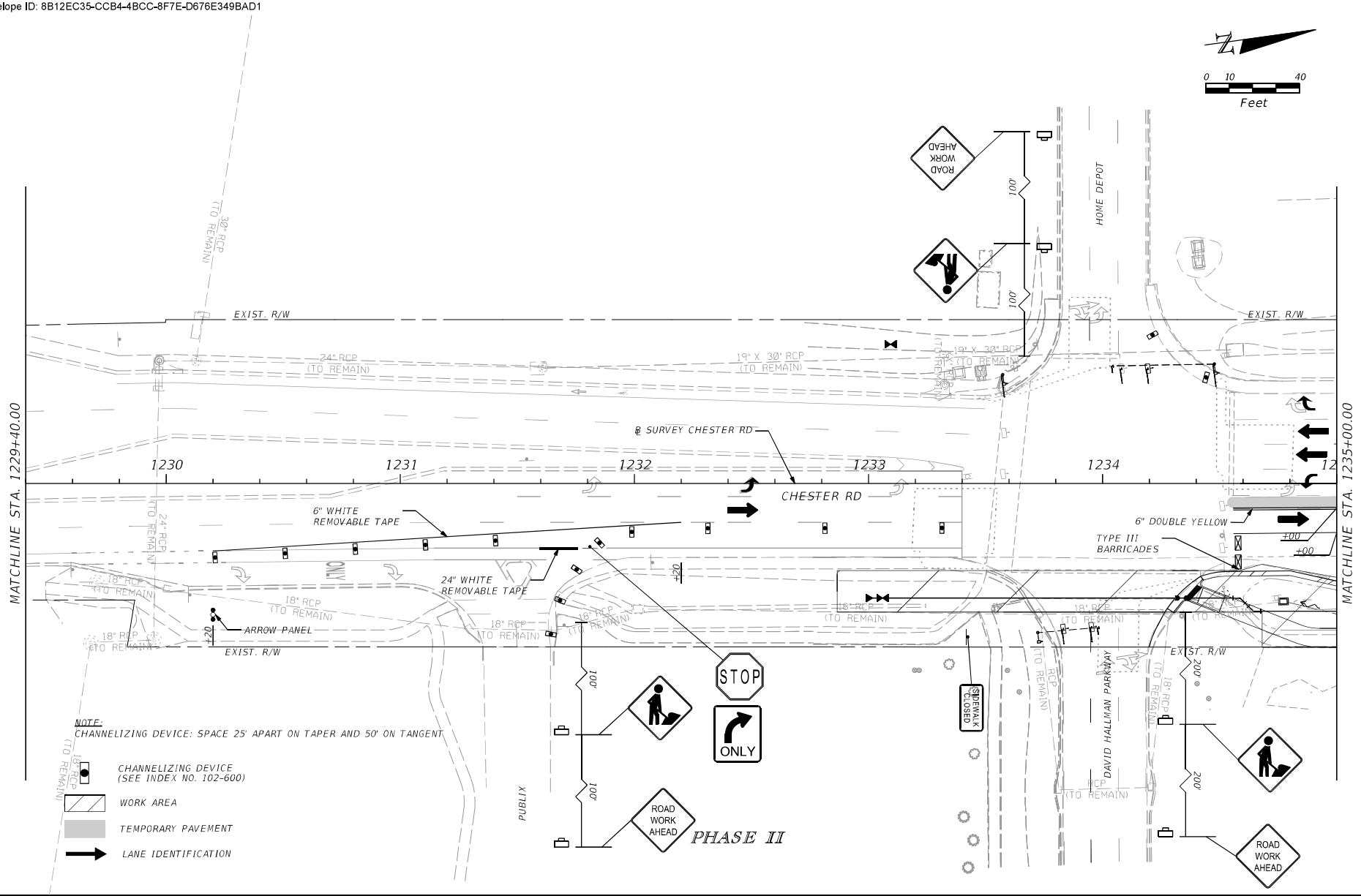

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 137

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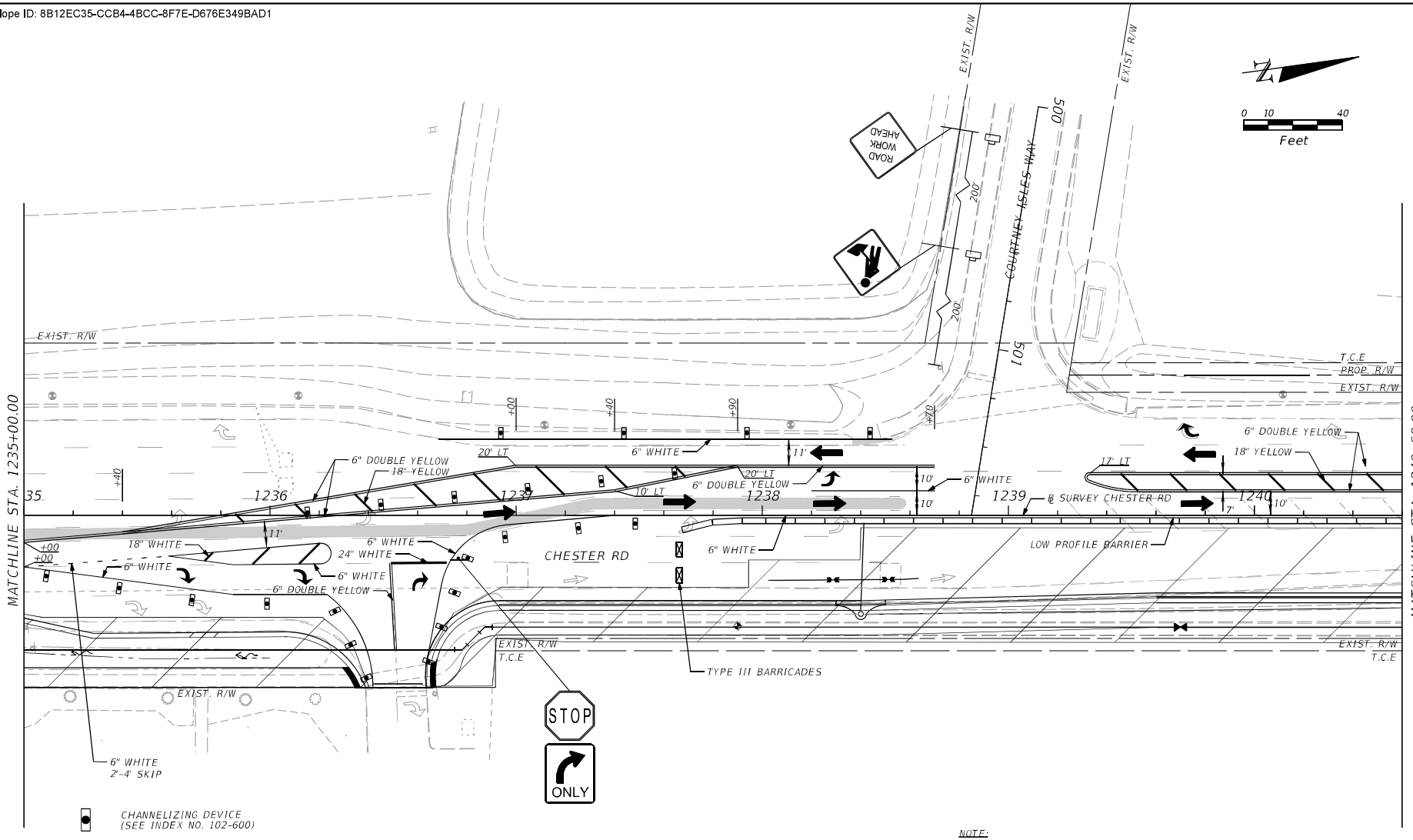

NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

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. 138

Danny 12/14/2023 8:17:19 AM J:\Transportation\Projects\17-01-0202_ChesterInt\trafops\TCP_PH2_03.DGN

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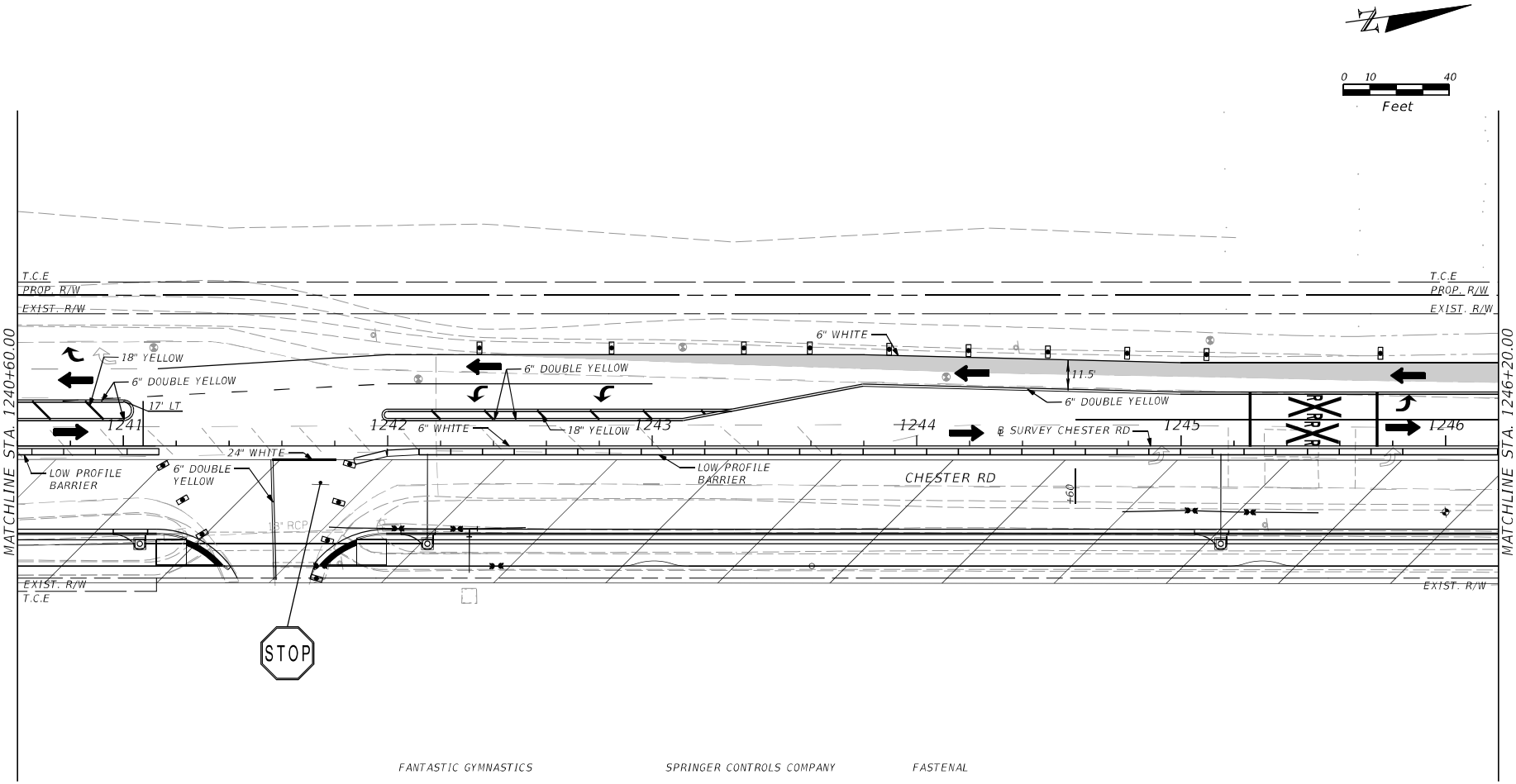

CHANNELIZING DEVICE (SEE INDEX NO. 102-600)

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

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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. 139

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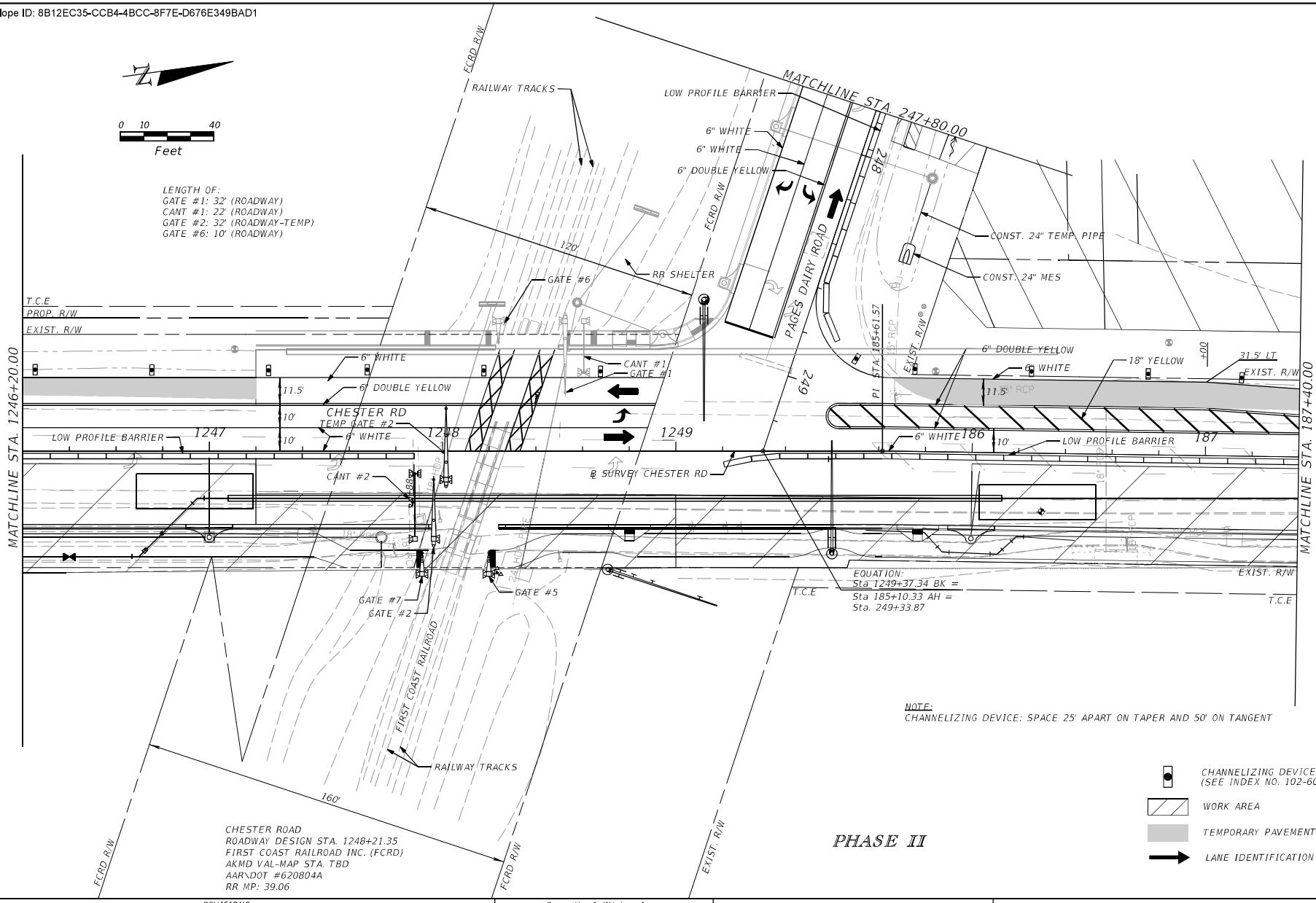

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 140

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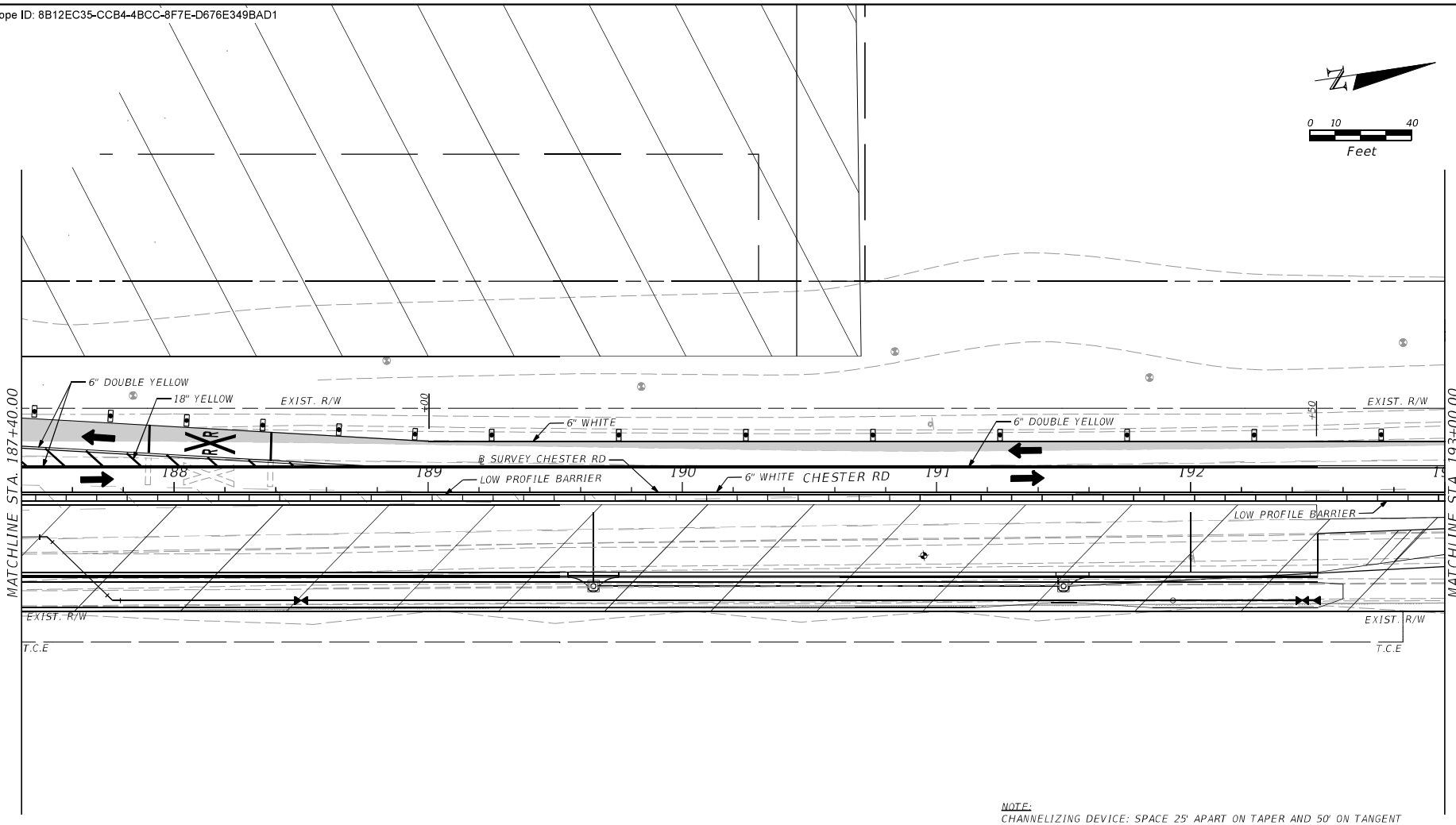

NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

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

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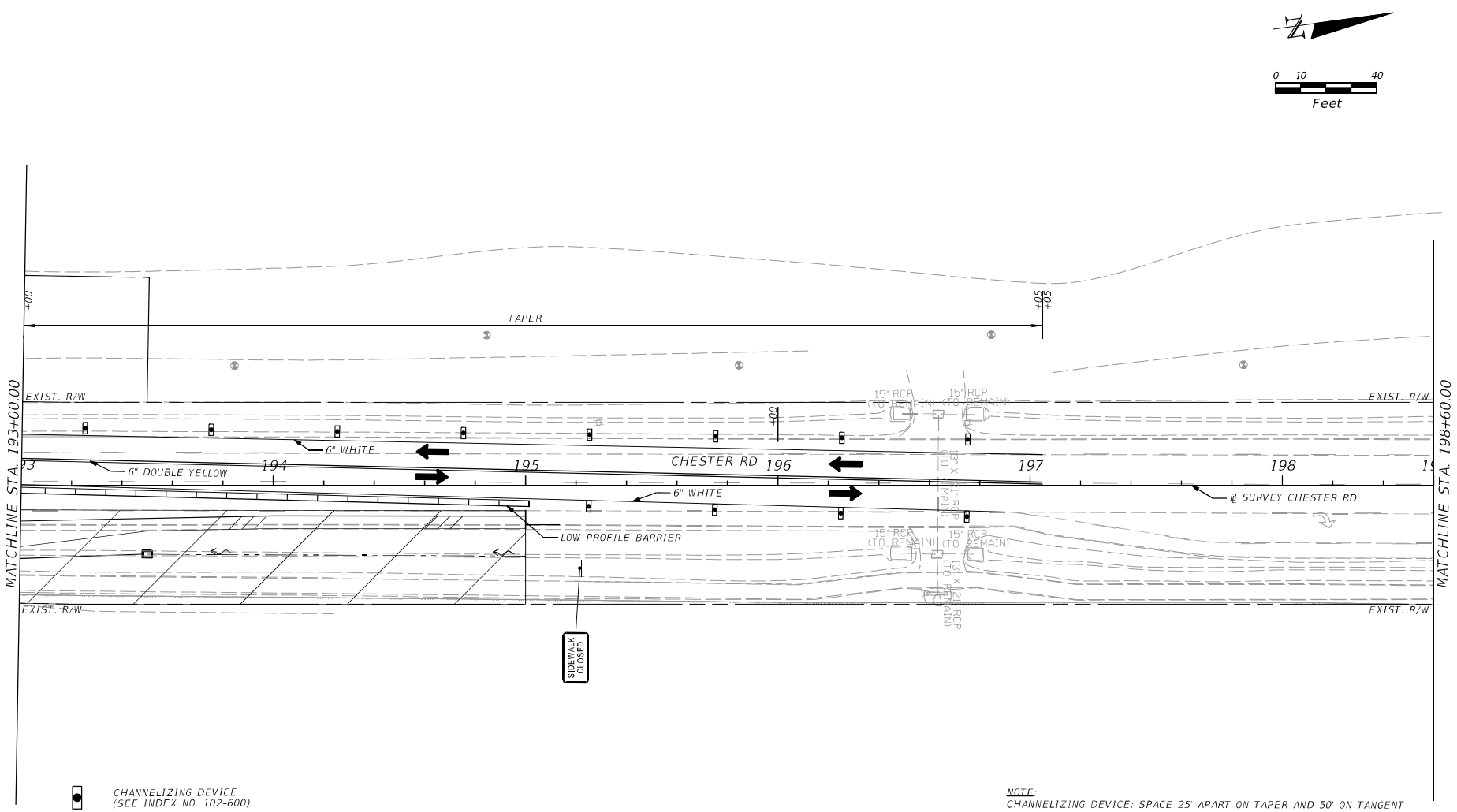

NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

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. 142

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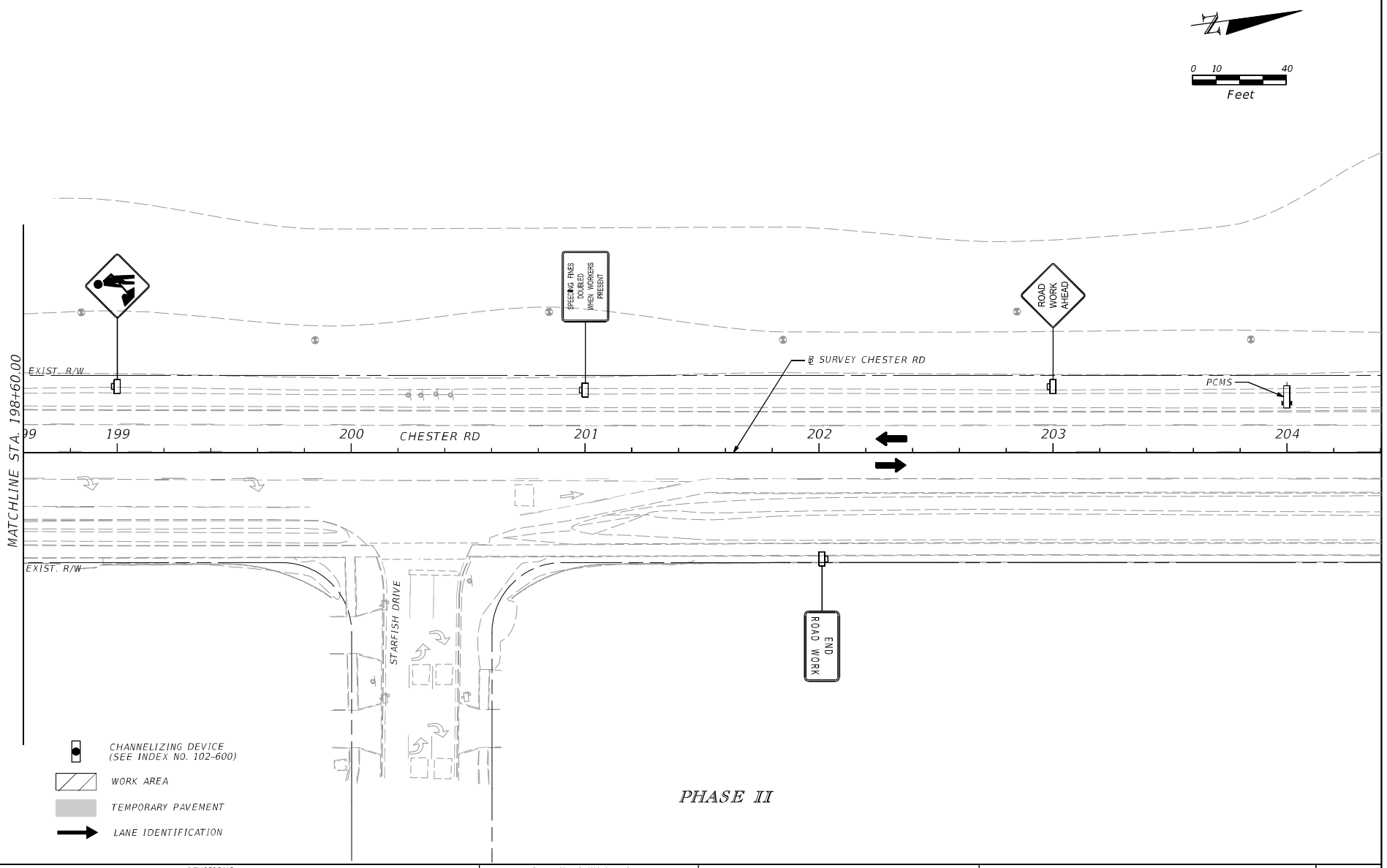

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REVISIONS			
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Engineer of Record:
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FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 143

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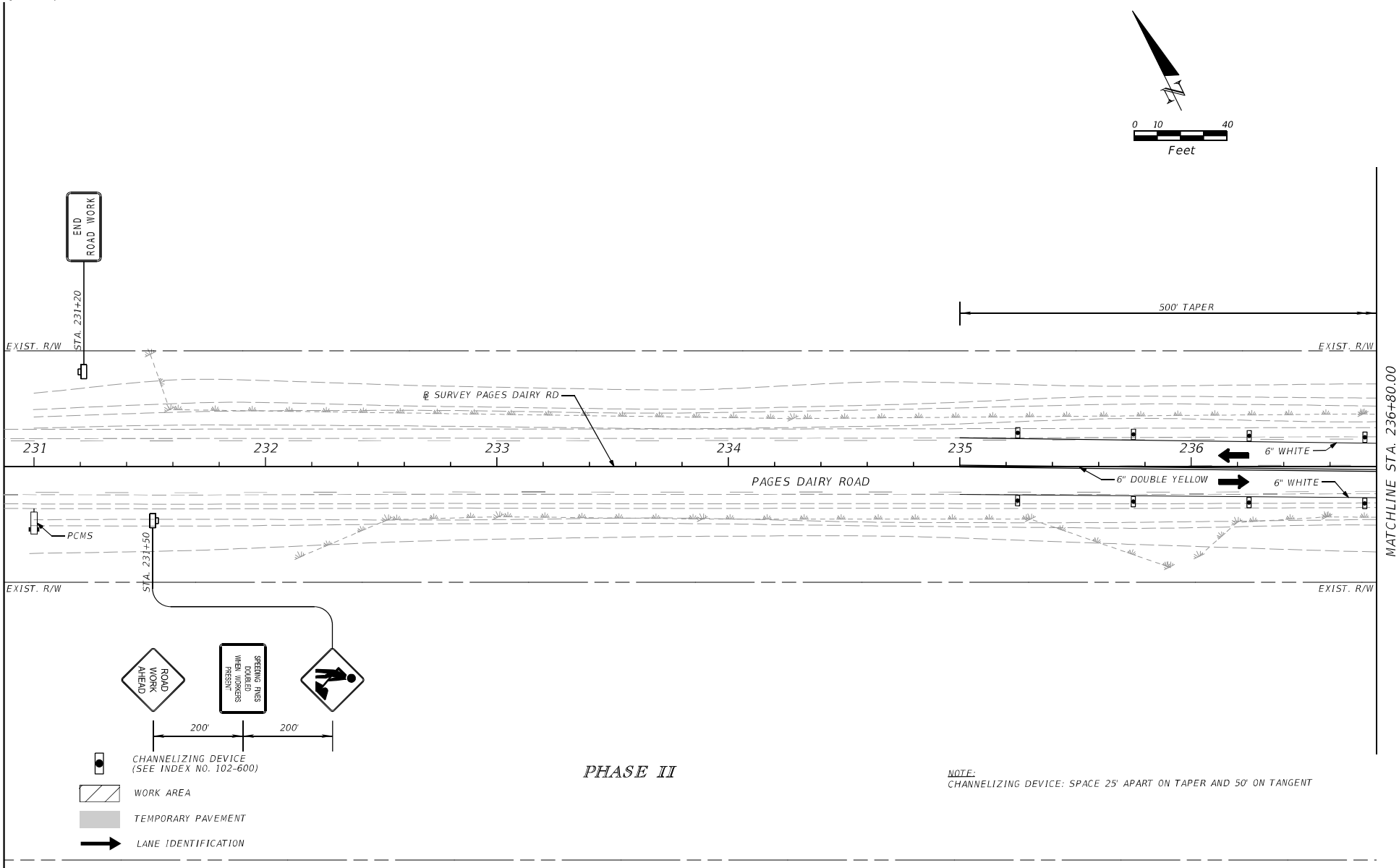

PHASE II

NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

REVISIONS			
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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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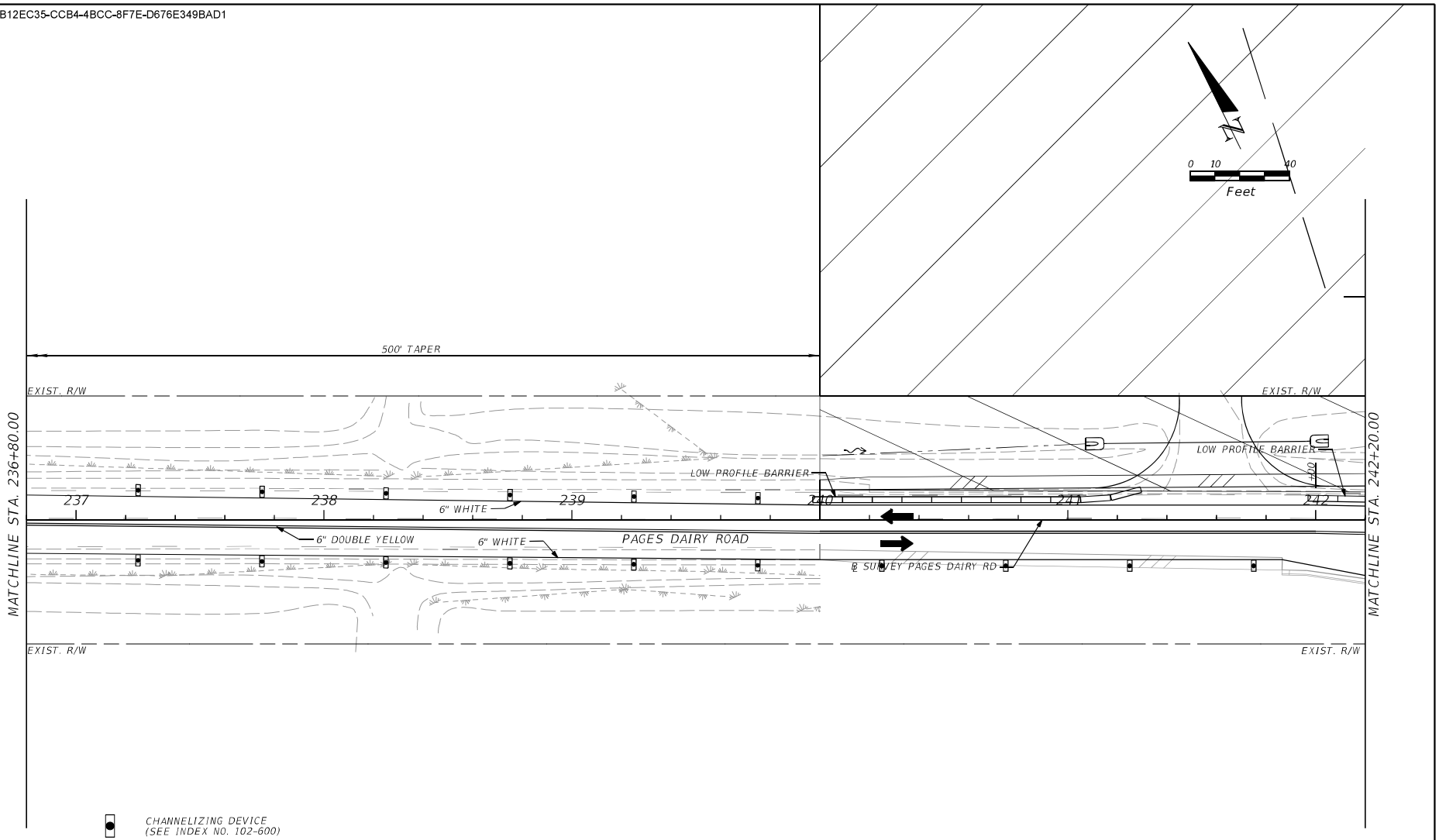

NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

PHASE II

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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Engineer of Record:
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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 145

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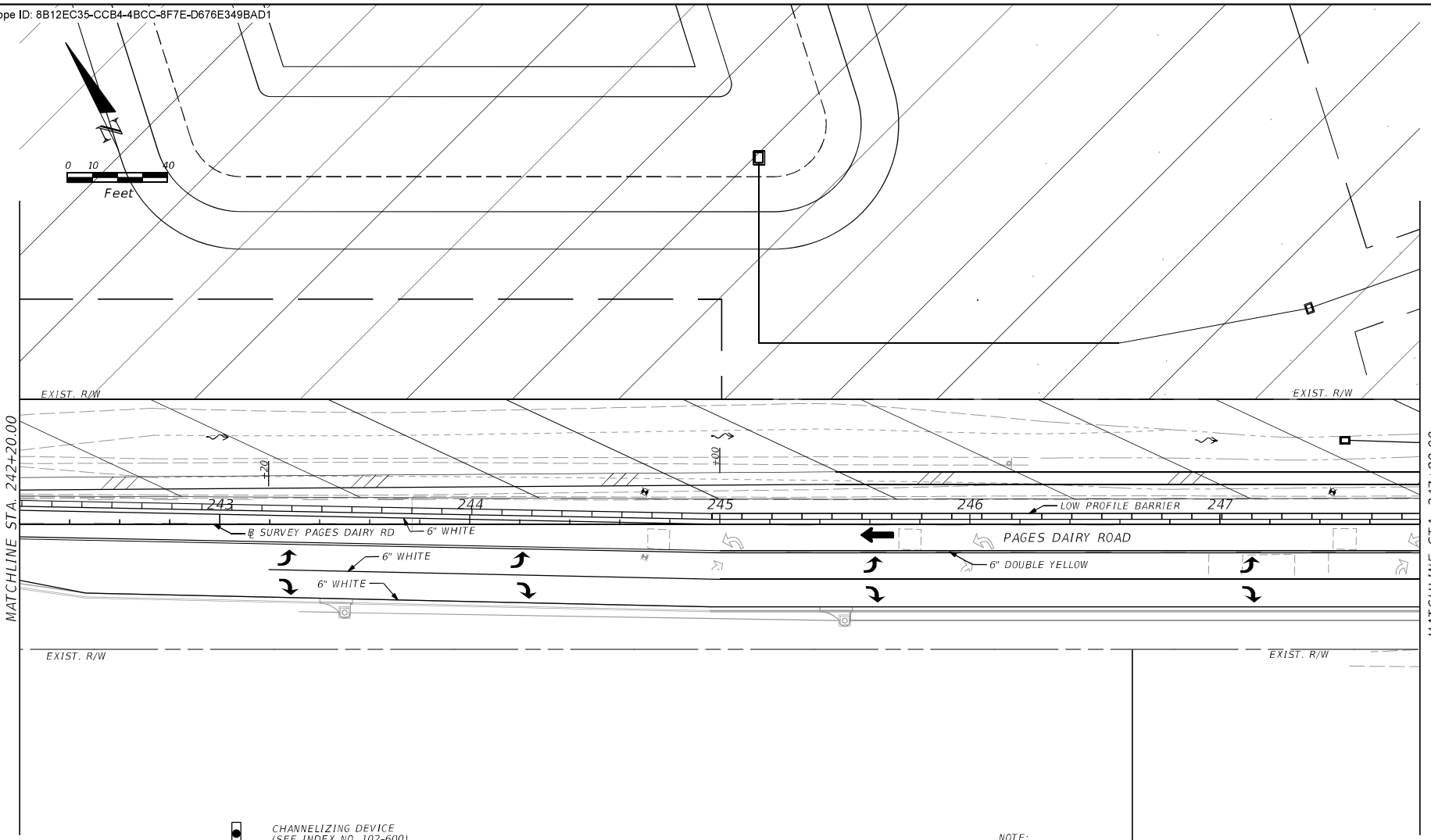

CHANNELIZING DEVICE
(SEE INDEX NO. 102-600)

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

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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	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 146

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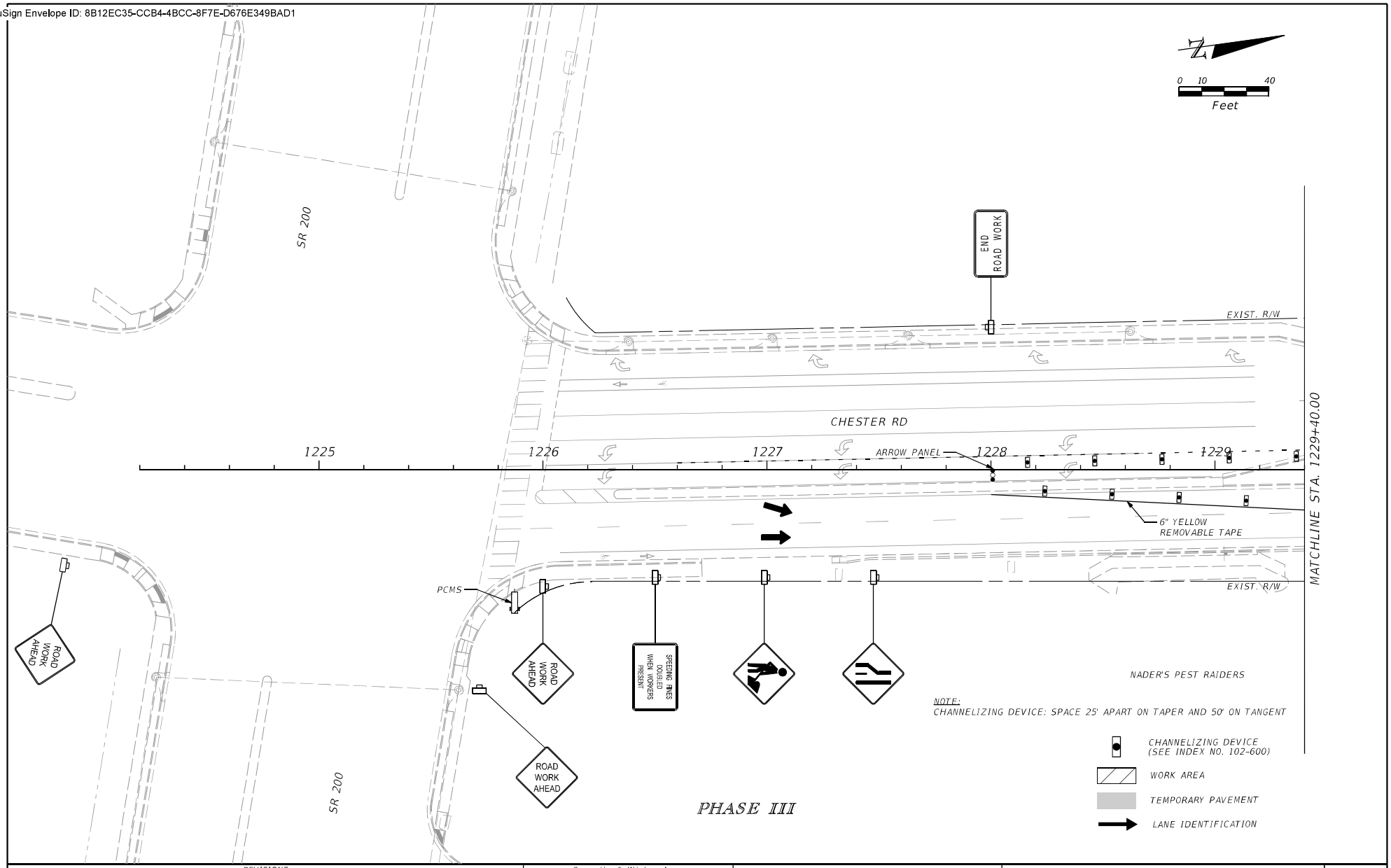

REVISIONS			
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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 147

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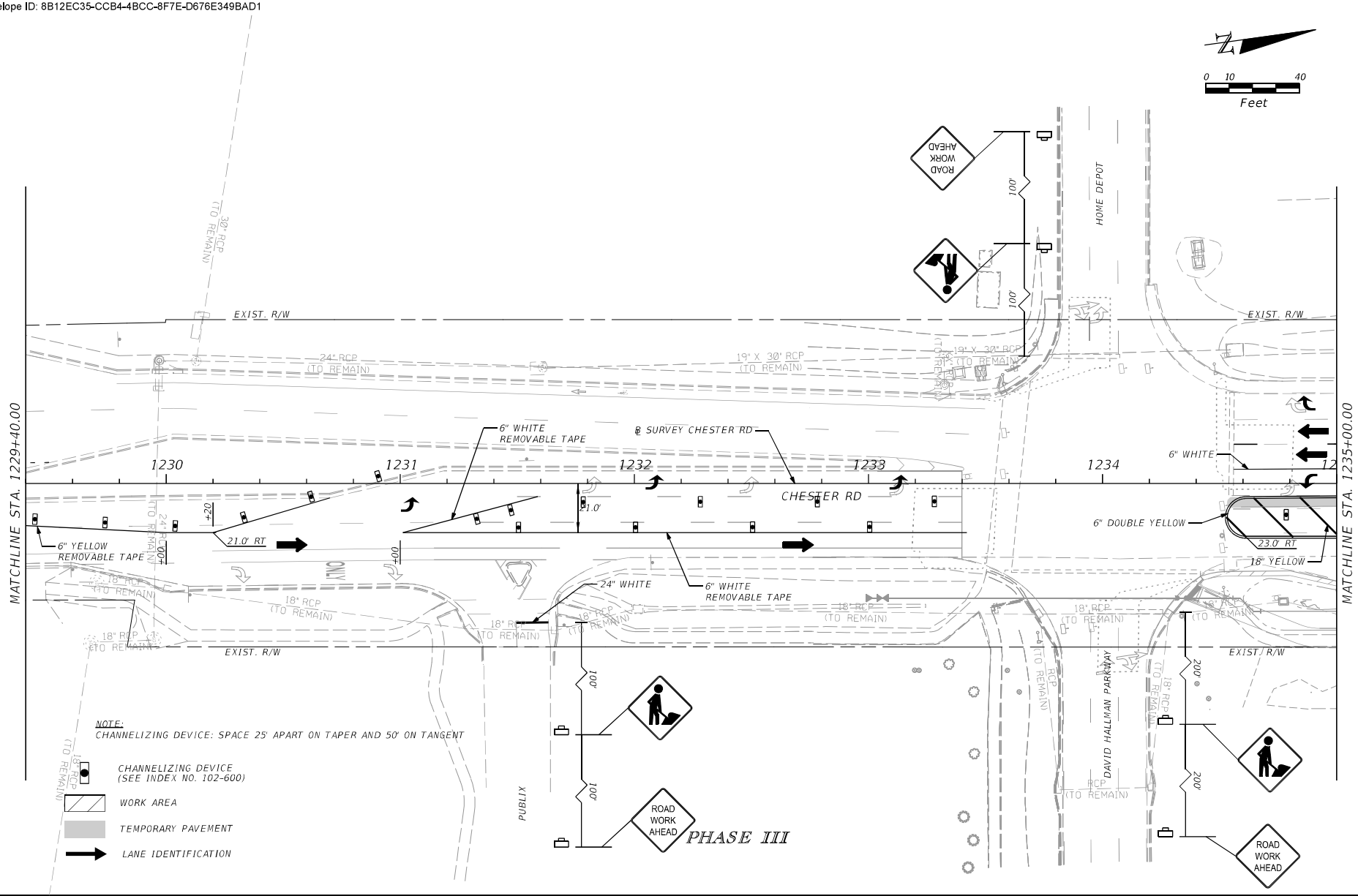

REVISIONS			
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Certification of Authorization No. 3650

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. 148

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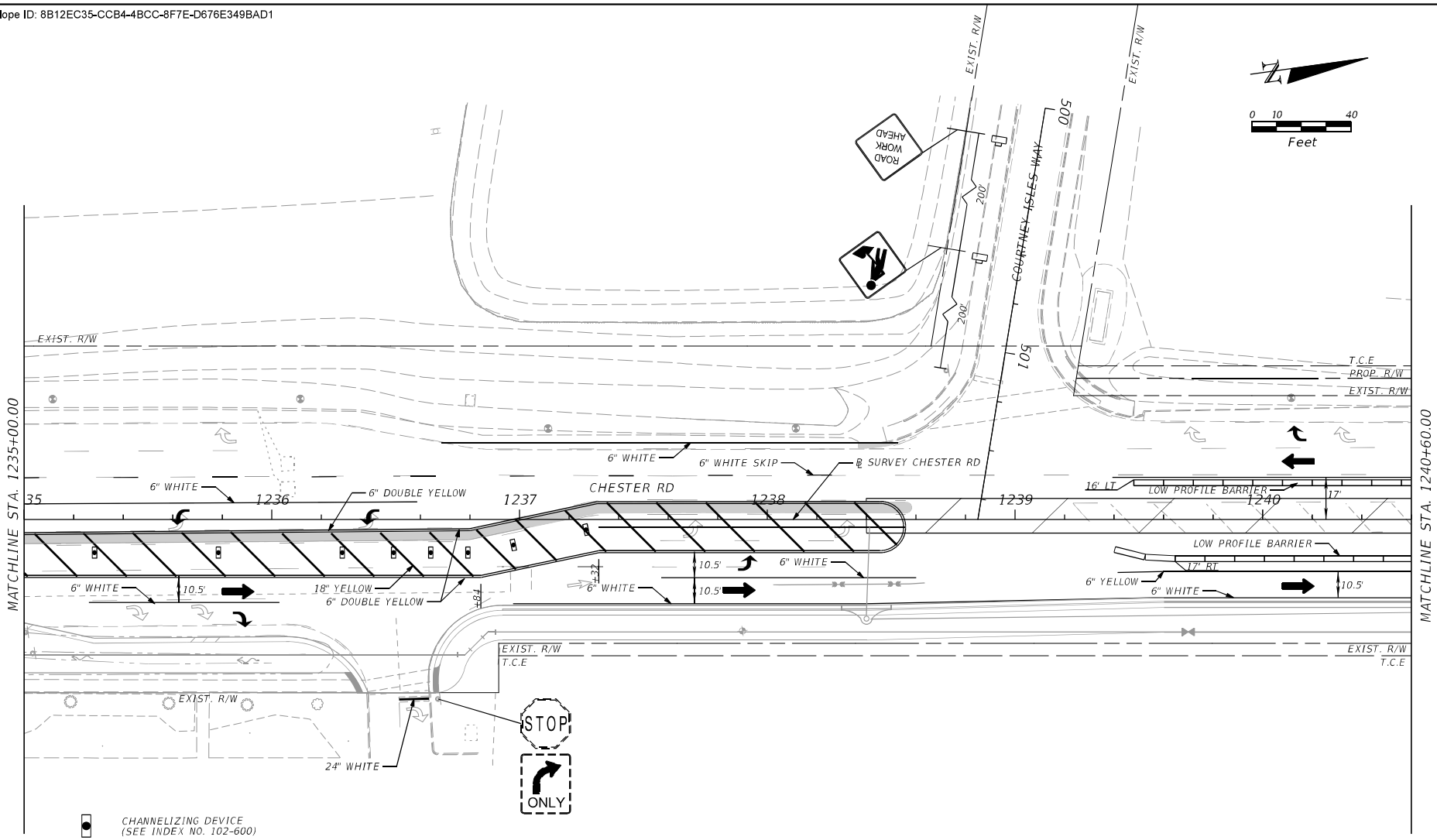

GATOR'S DOCKSIDE

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. 149

Danny 12/14/2023 8:17:28 AM J:\Transportation\Projects\17-01-0202_ChesterInt\trafops\TCP_PH3_03.DGN

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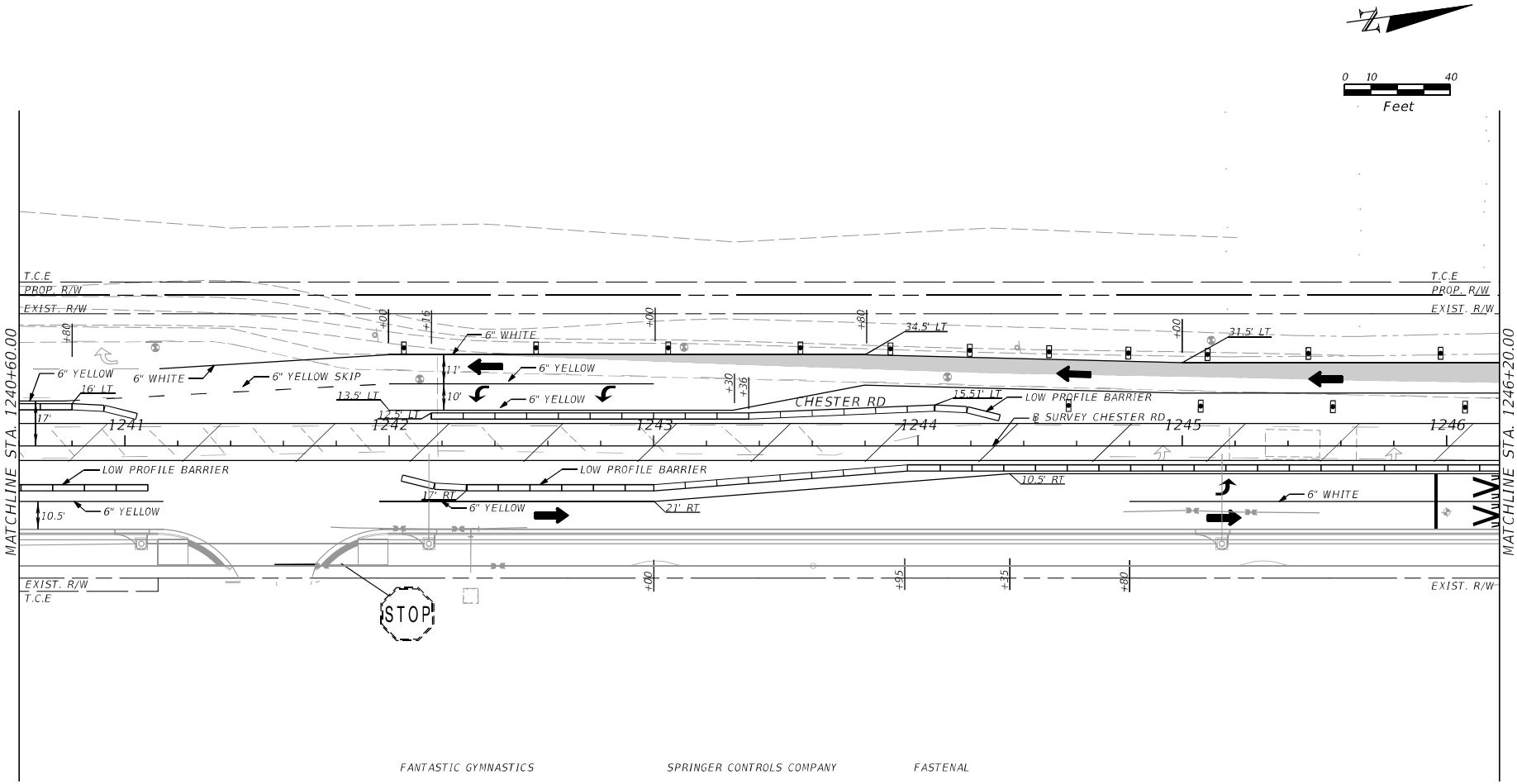

CHANNELIZING DEVICE (SEE INDEX NO. 102-600)

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. 150

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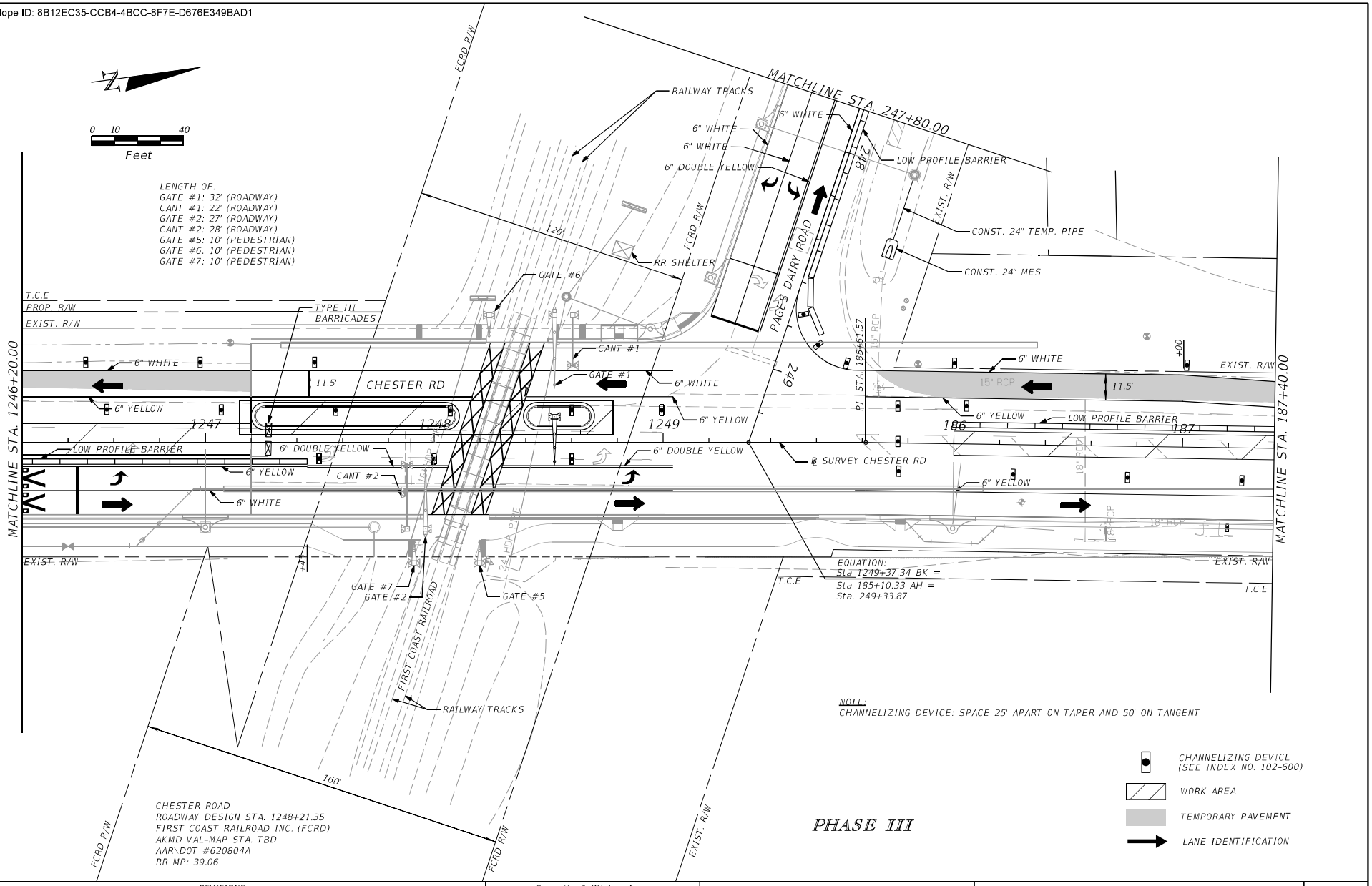

REVISIONS			
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10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

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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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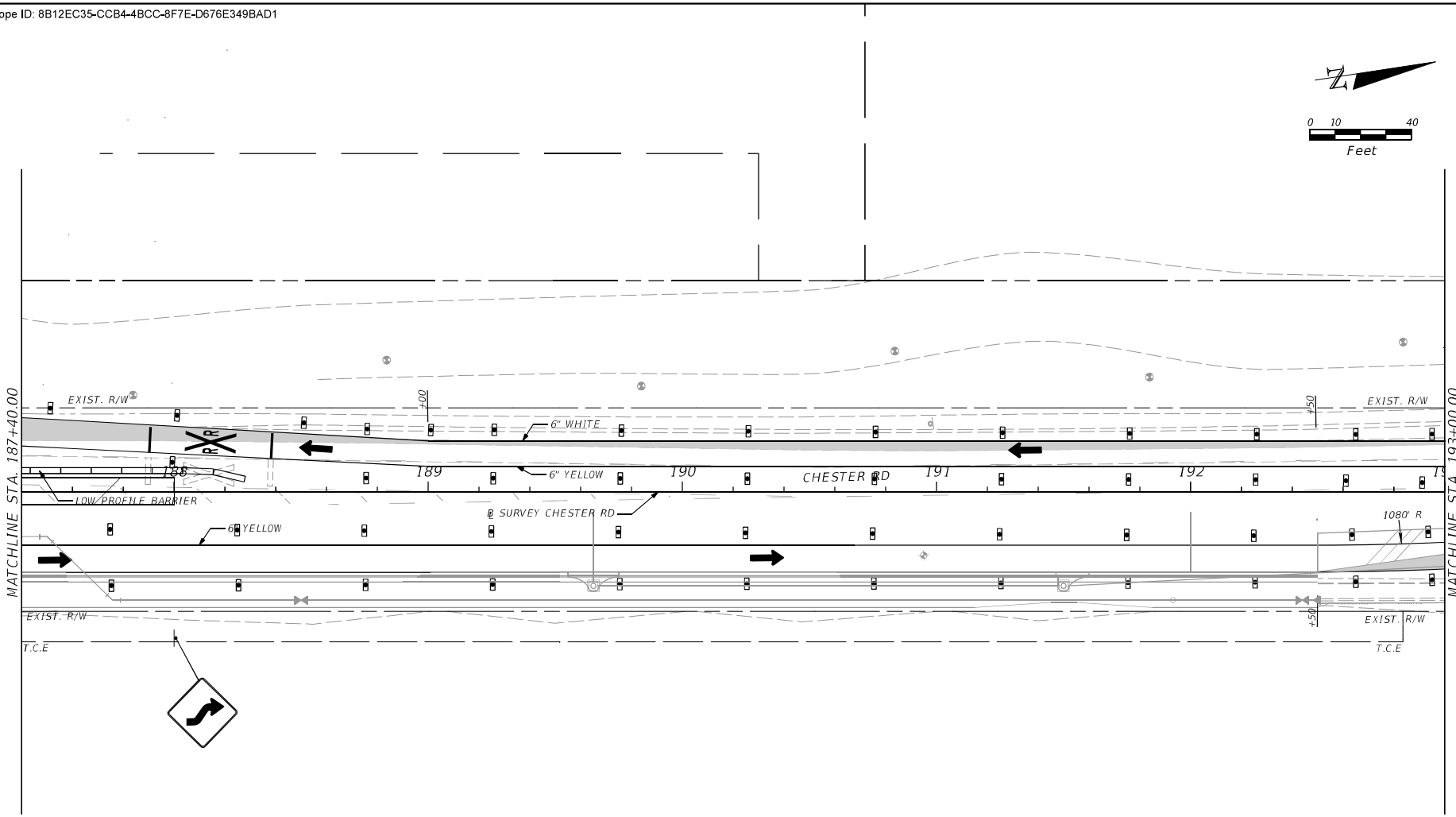

CHANNELIZING DEVICE
(SEE INDEX NO. 102-600)

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

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. 152

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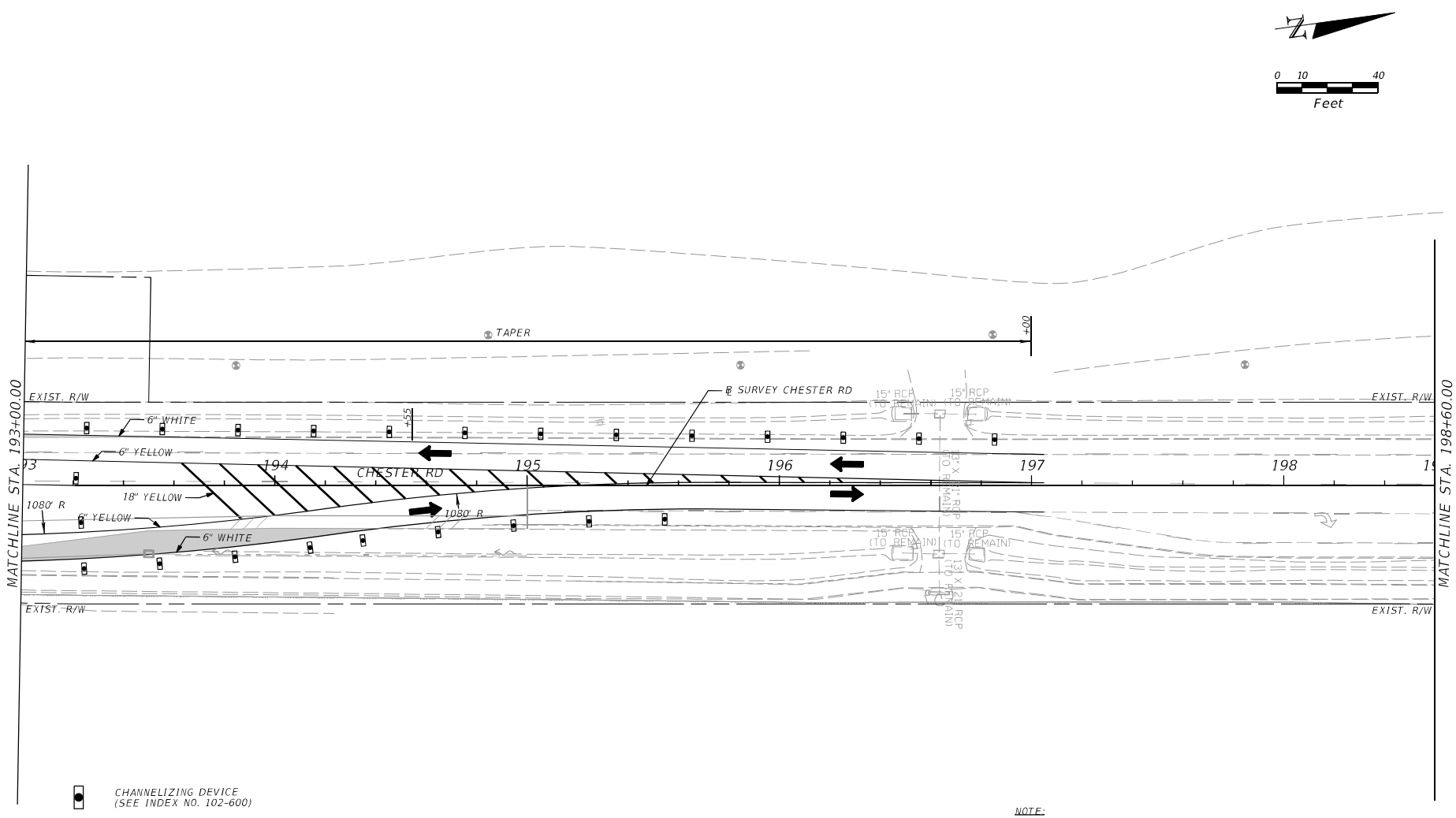

CHANNELIZING DEVICE (SEE INDEX NO. 102-600)

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

Danny 12/14/2023 8:17:31 AM J:\Transportation\Projects\17-01-0202_ChesterInt\trafops\TCP_PH3_07.DGN

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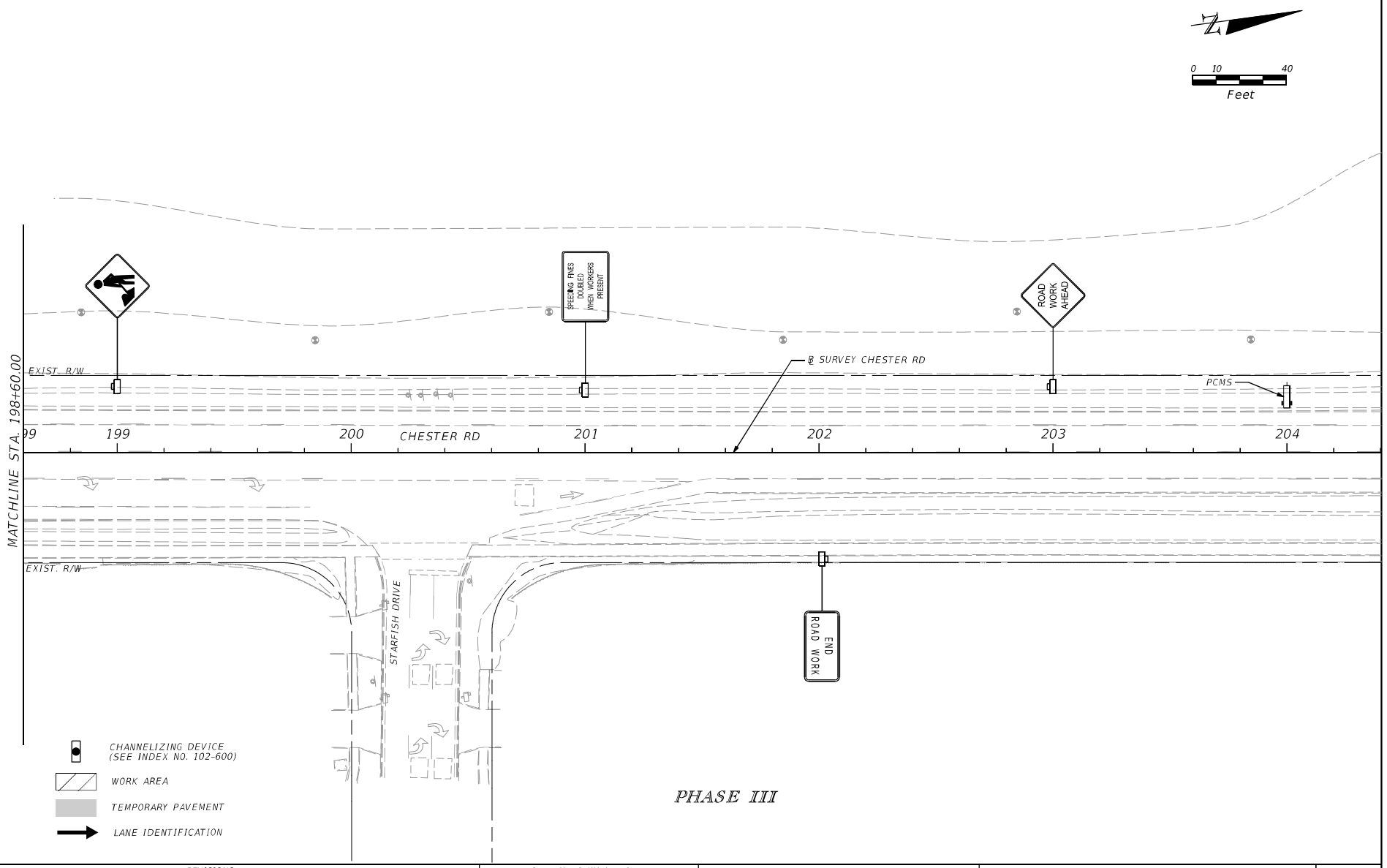

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FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 154

Danny 12/14/2023 8:17:31 AM J:\Transportation\Projects\17-01-0202_ChesterInt\trafops\TCP_PH3_08.DGN

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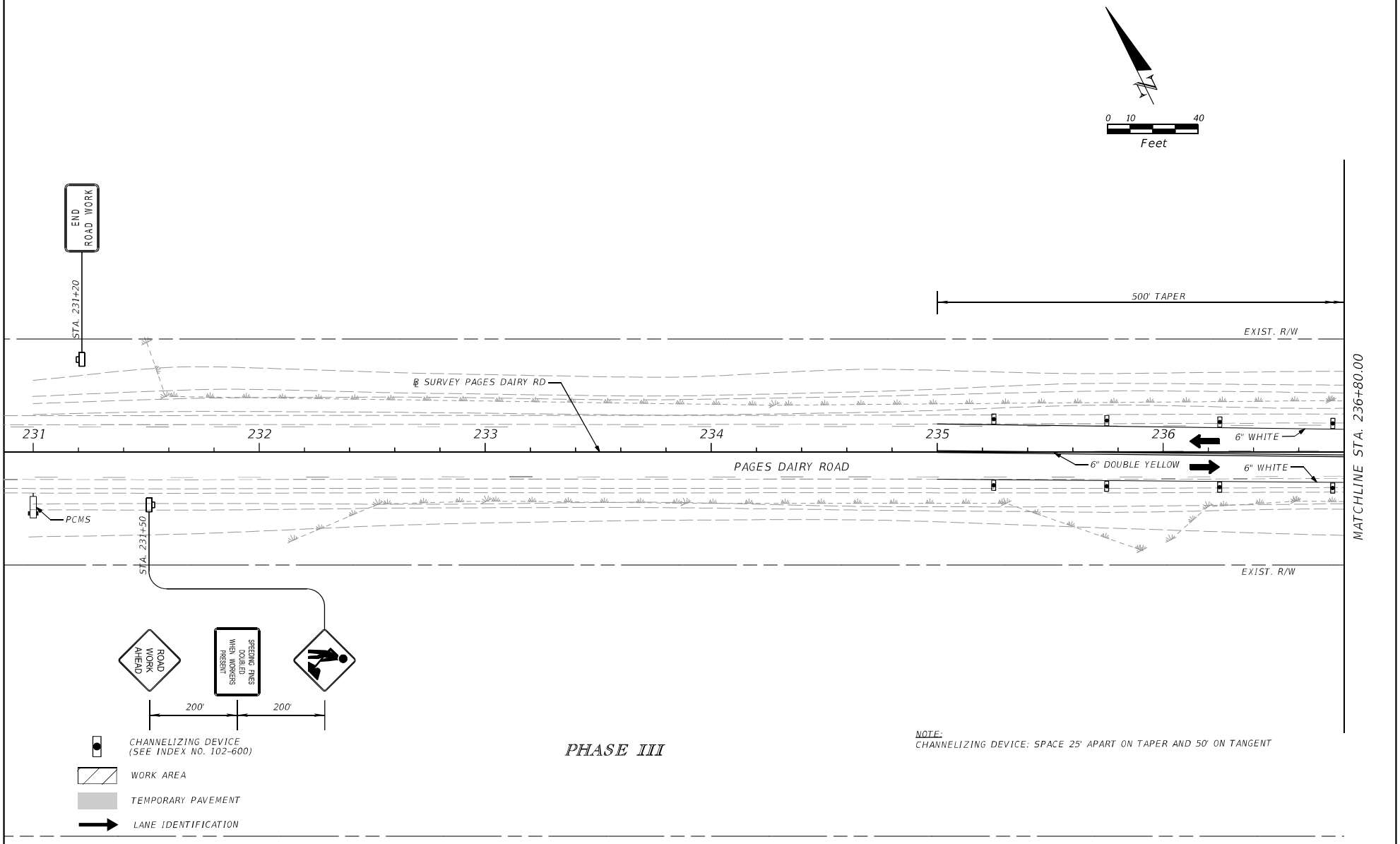

PHASE III

NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

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REVISIONS			
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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 155

Danny 12/14/2023 8:17:32 AM J:\Transportation\Projects\17-01-0202_ChesterInt\trafops\TCP_PH3_09.DGN

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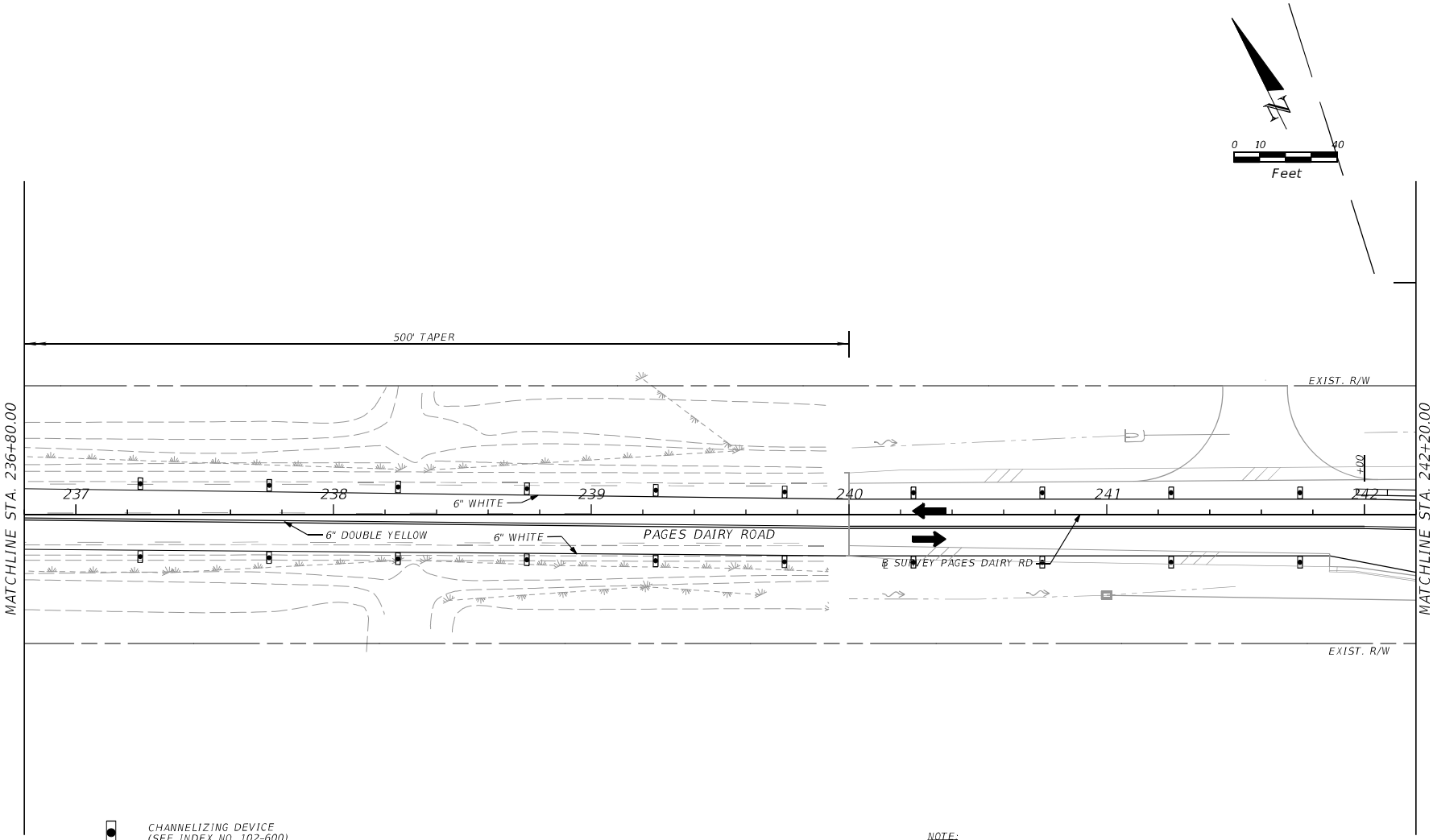

NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

PHASE III

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 156

Danny 12/14/2023 8:17:33 AM J:\Transportation\Projects\17-01-0202_ChesterInt\trafops\TCP_PH3_10.DGN

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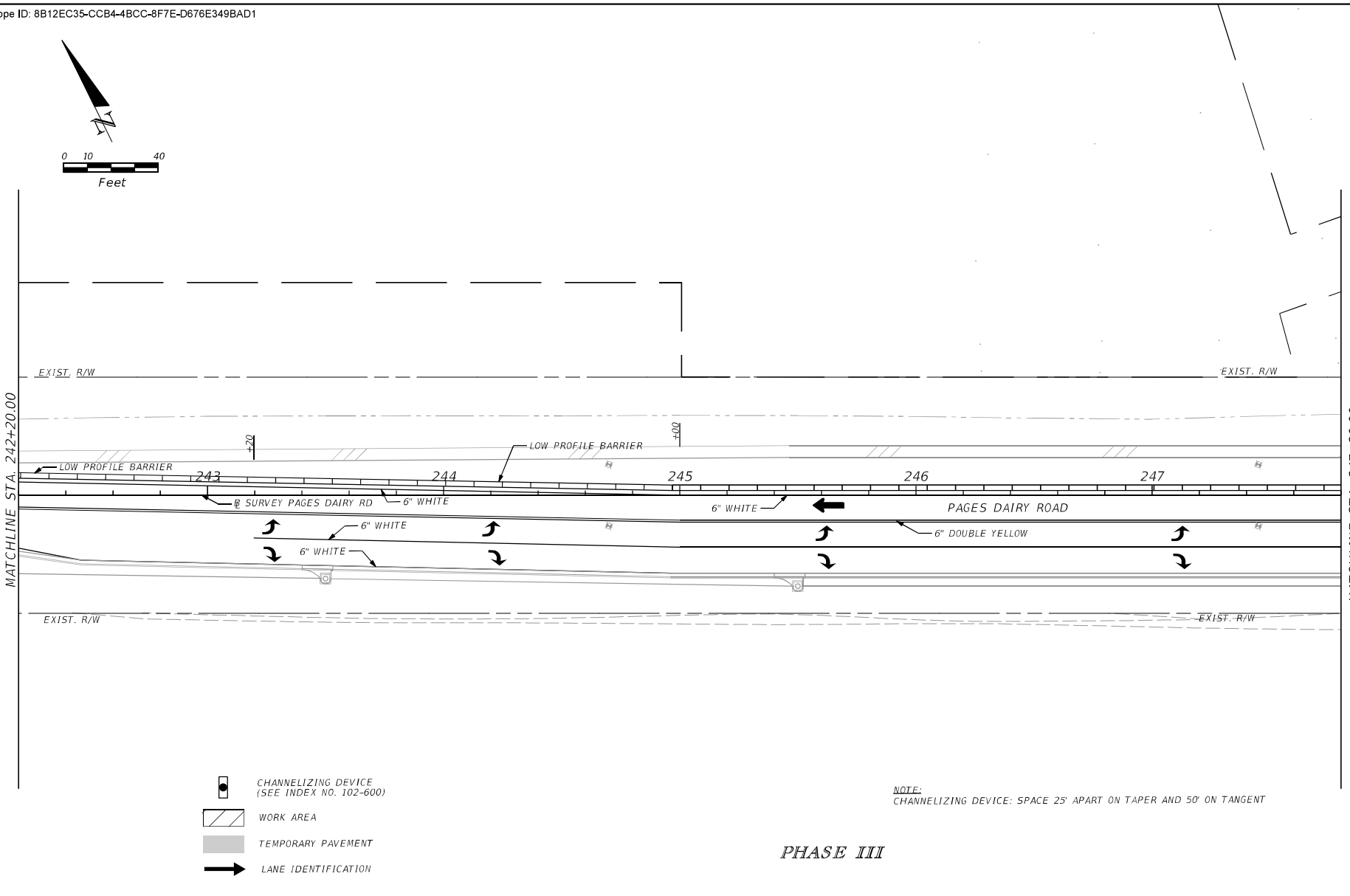

NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

PHASE III

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
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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. 157

Danny 12/14/2023 8:17:33 AM J:\Transportation\Projects\17-01-0202_ChesterInt\trafops\TCP_PH3_11.DGN

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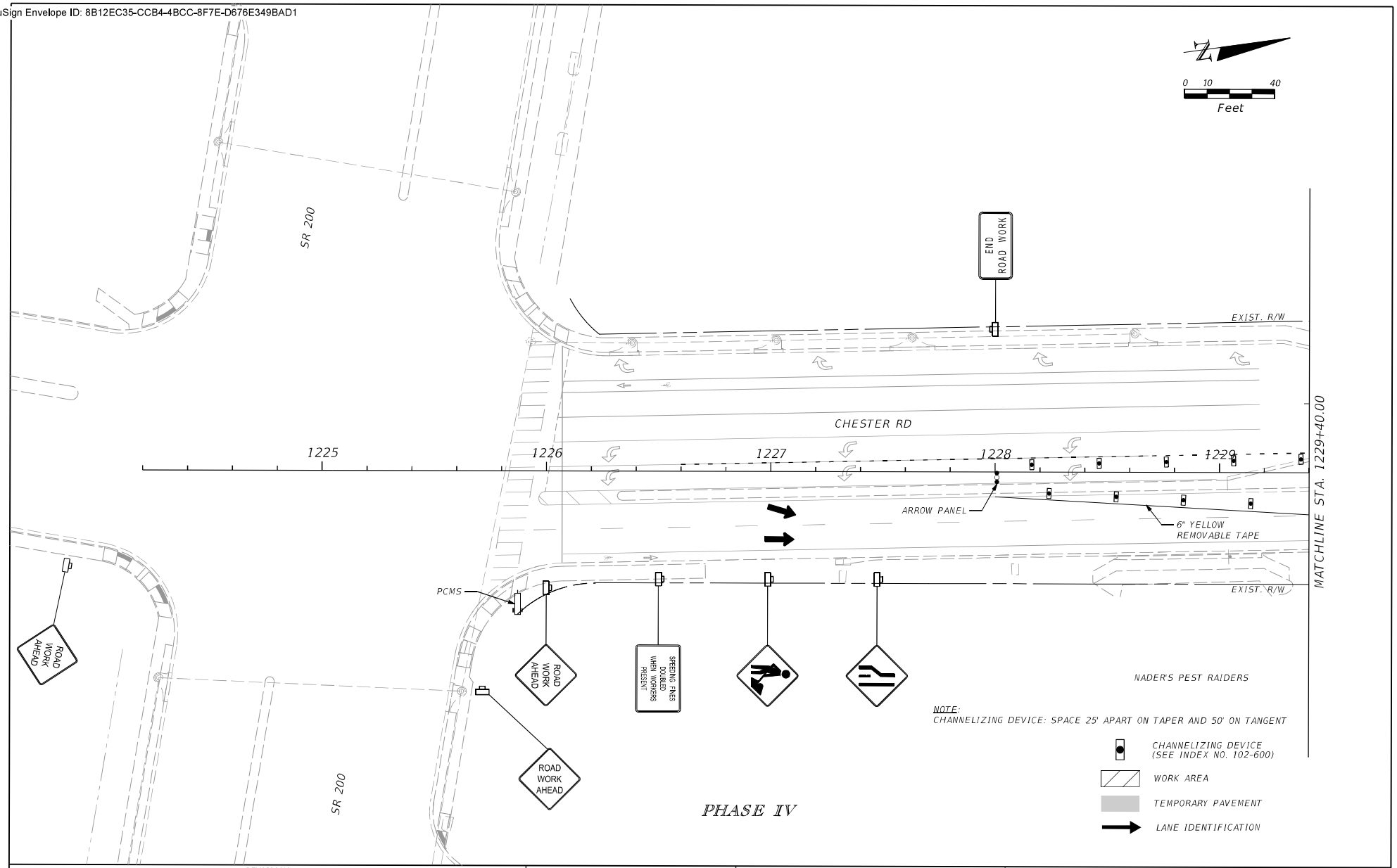

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 158

Danny 12/14/2023 8:17:34 AM J:\Transportation\Projects\17-01-0202_ChesterInt\Traffops\TCP_PH4_01.DGN

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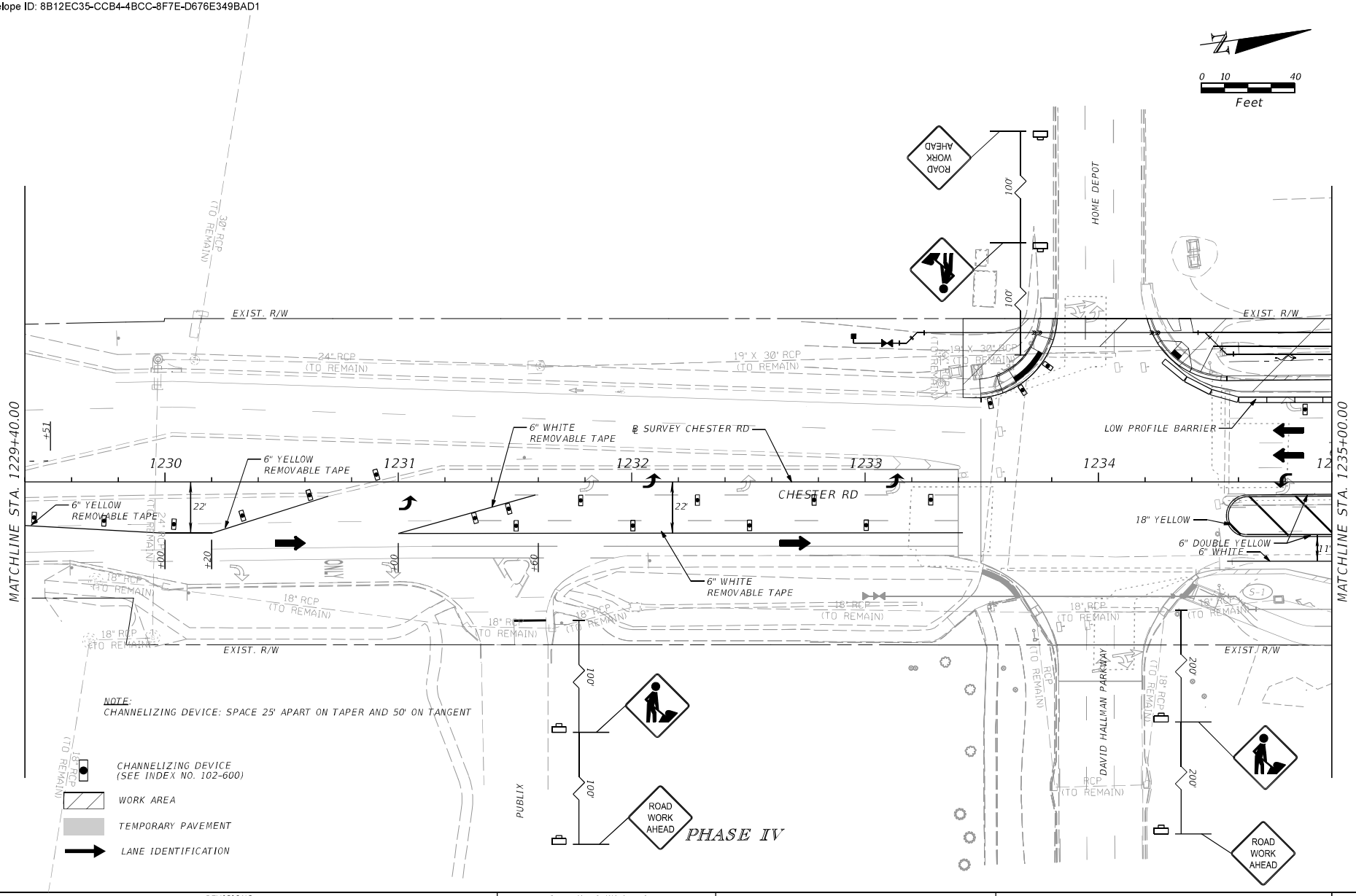

REVISIONS			
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Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
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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. 159

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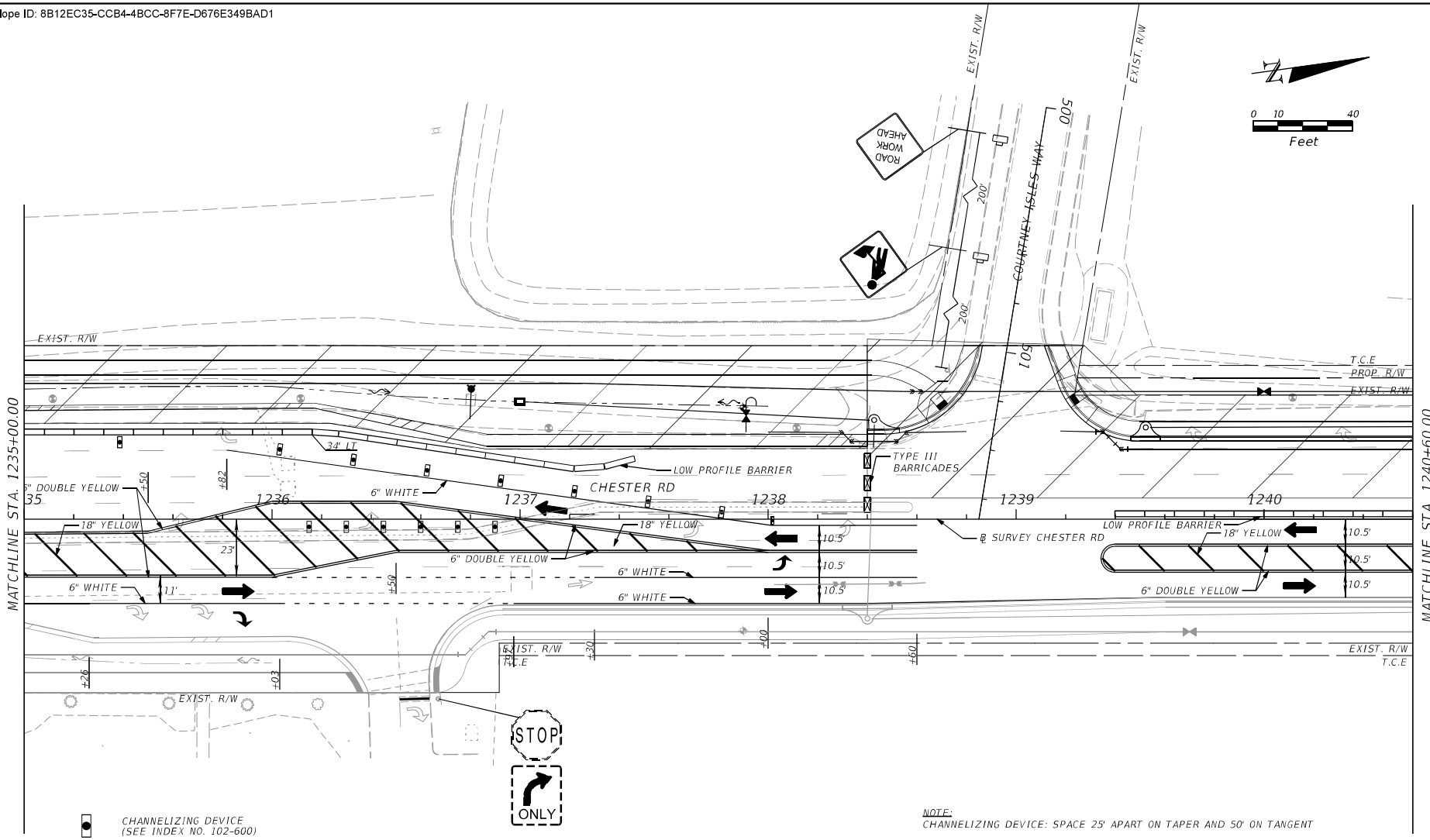

NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

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. 160

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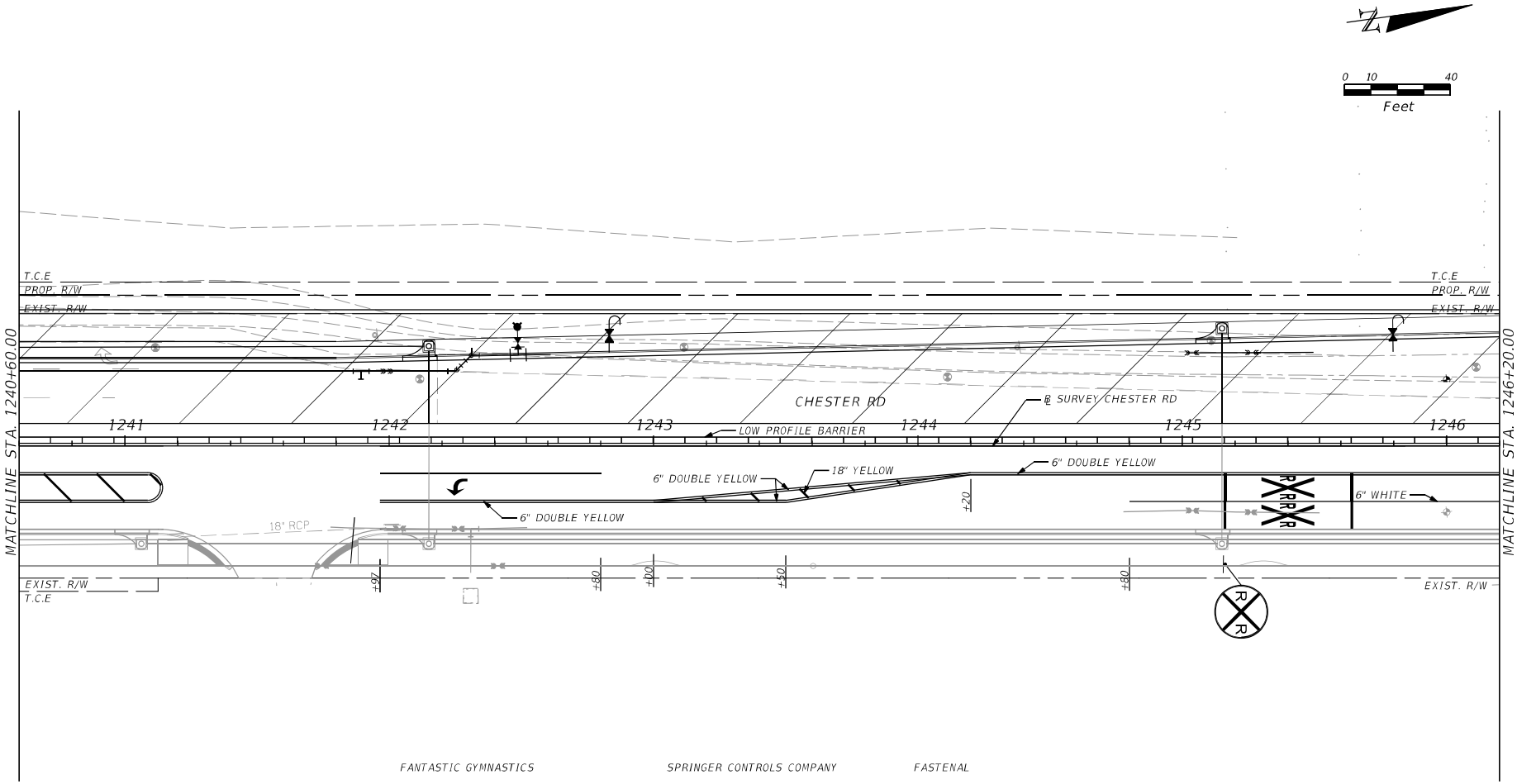

CHANNELIZING DEVICE (SEE INDEX NO. 102-600)

WORK AREA

TEMPORARY PAVEMENT

LANE IDENTIFICATION

NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

PHASE IV

REVISIONS			
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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. 161

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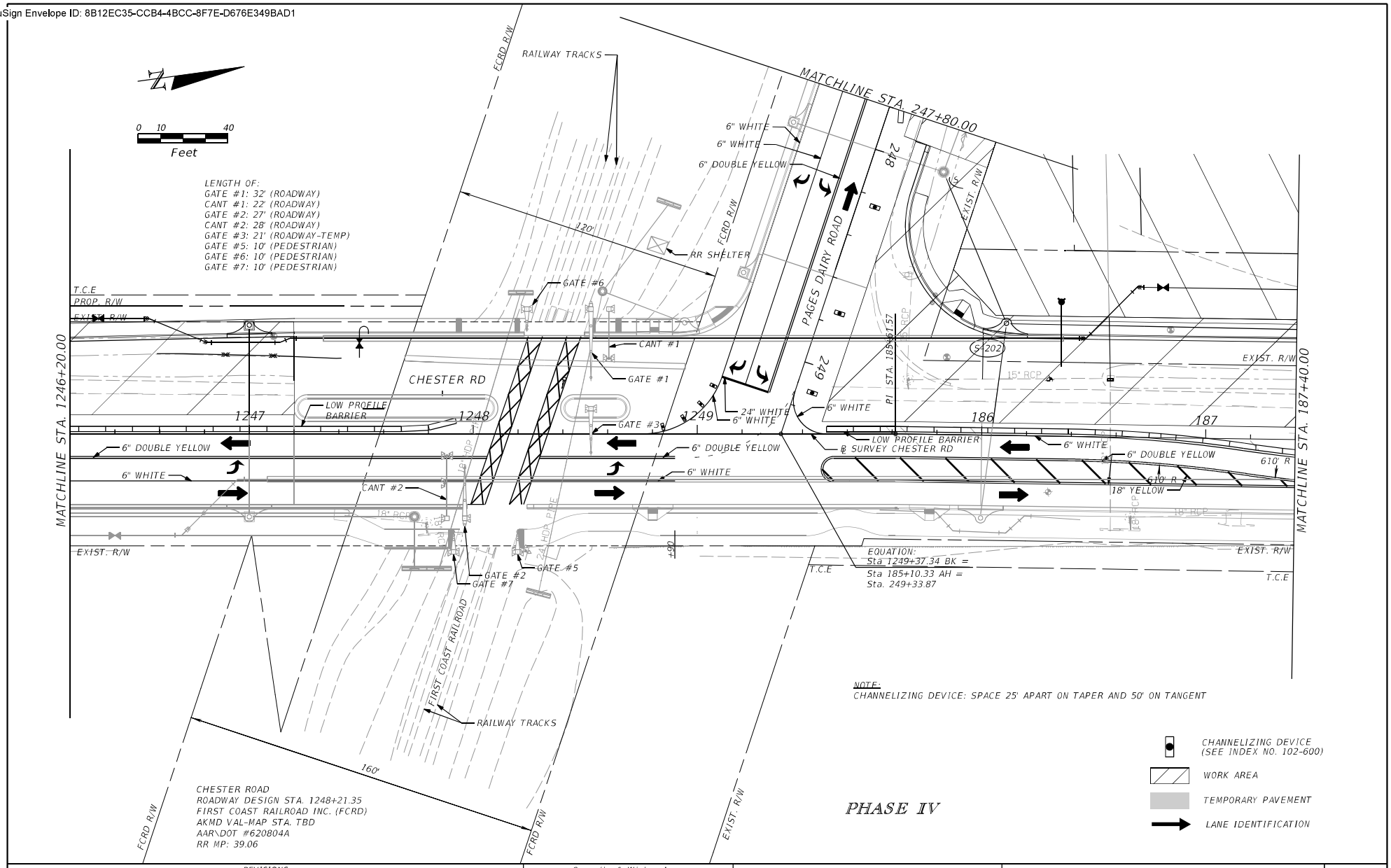

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 162

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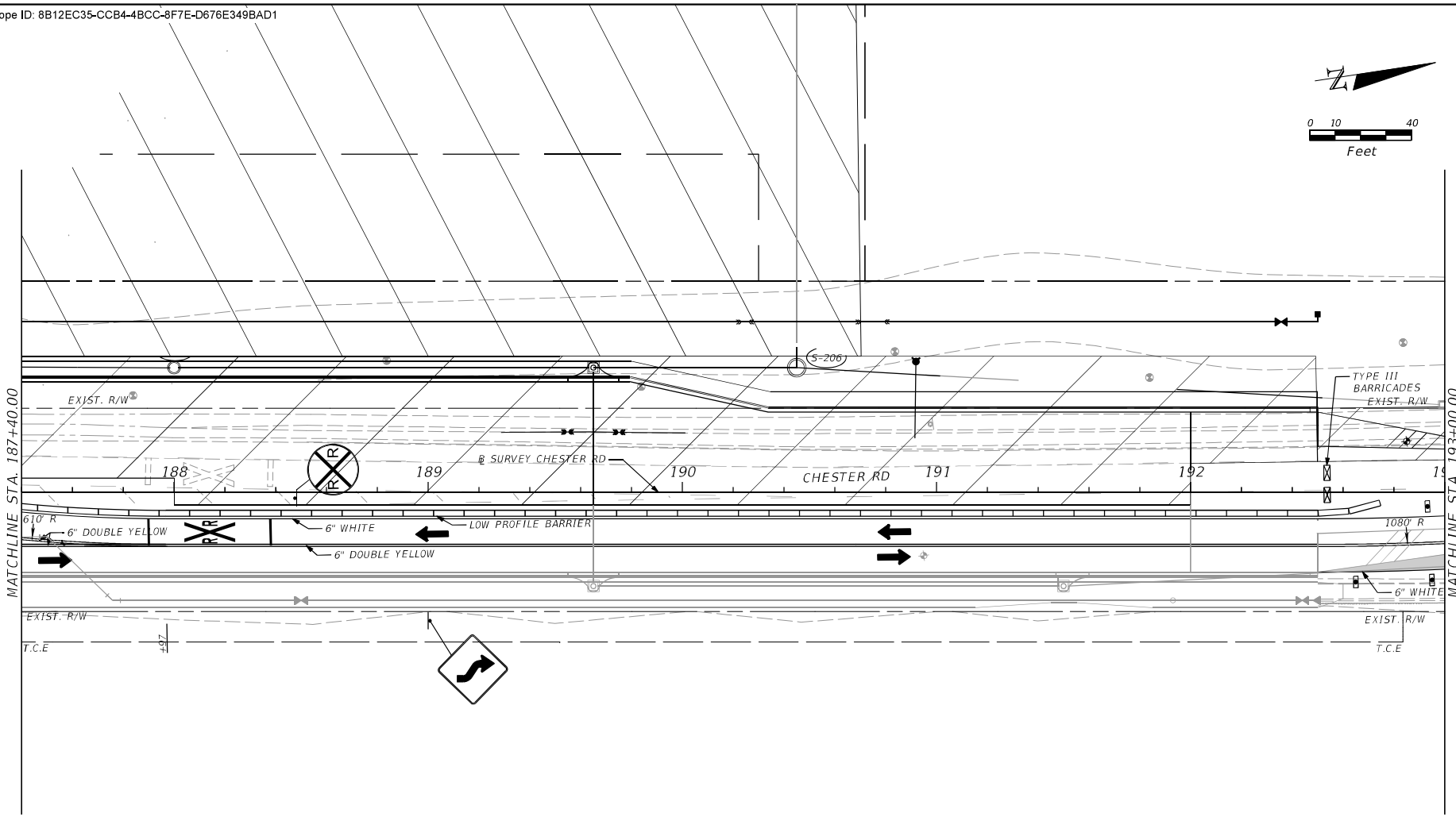

CHANNELIZING DEVICE (SEE INDEX NO. 102-600)

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.
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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 163

Danny 12/14/2023 8:17:38 AM J:\Transportation\Projects\17-01-0202_ChesterInt\trafops\TCP_PH4_06.DGN

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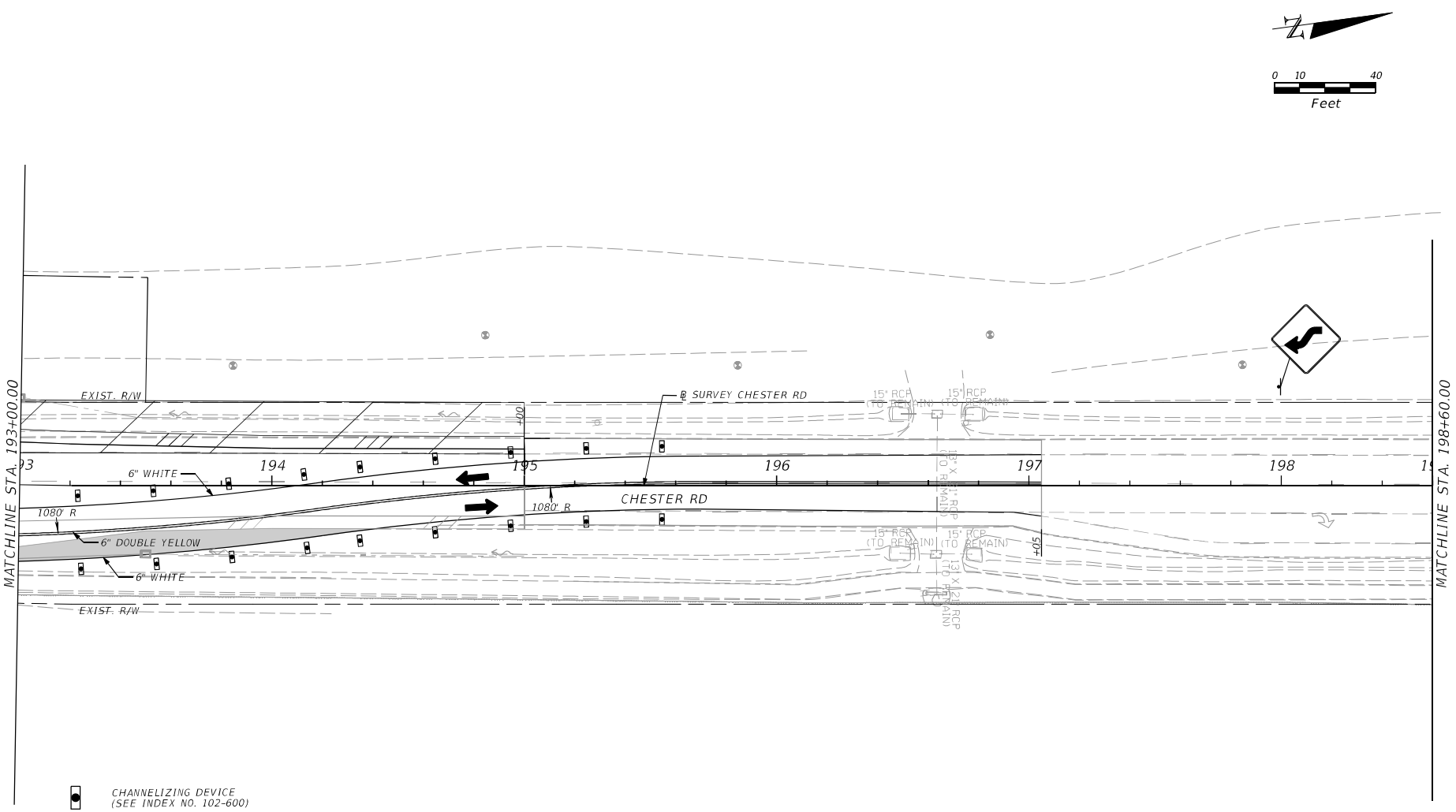

PHASE IV

NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

REVISIONS			
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Connelly & Wicker Inc.
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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 164

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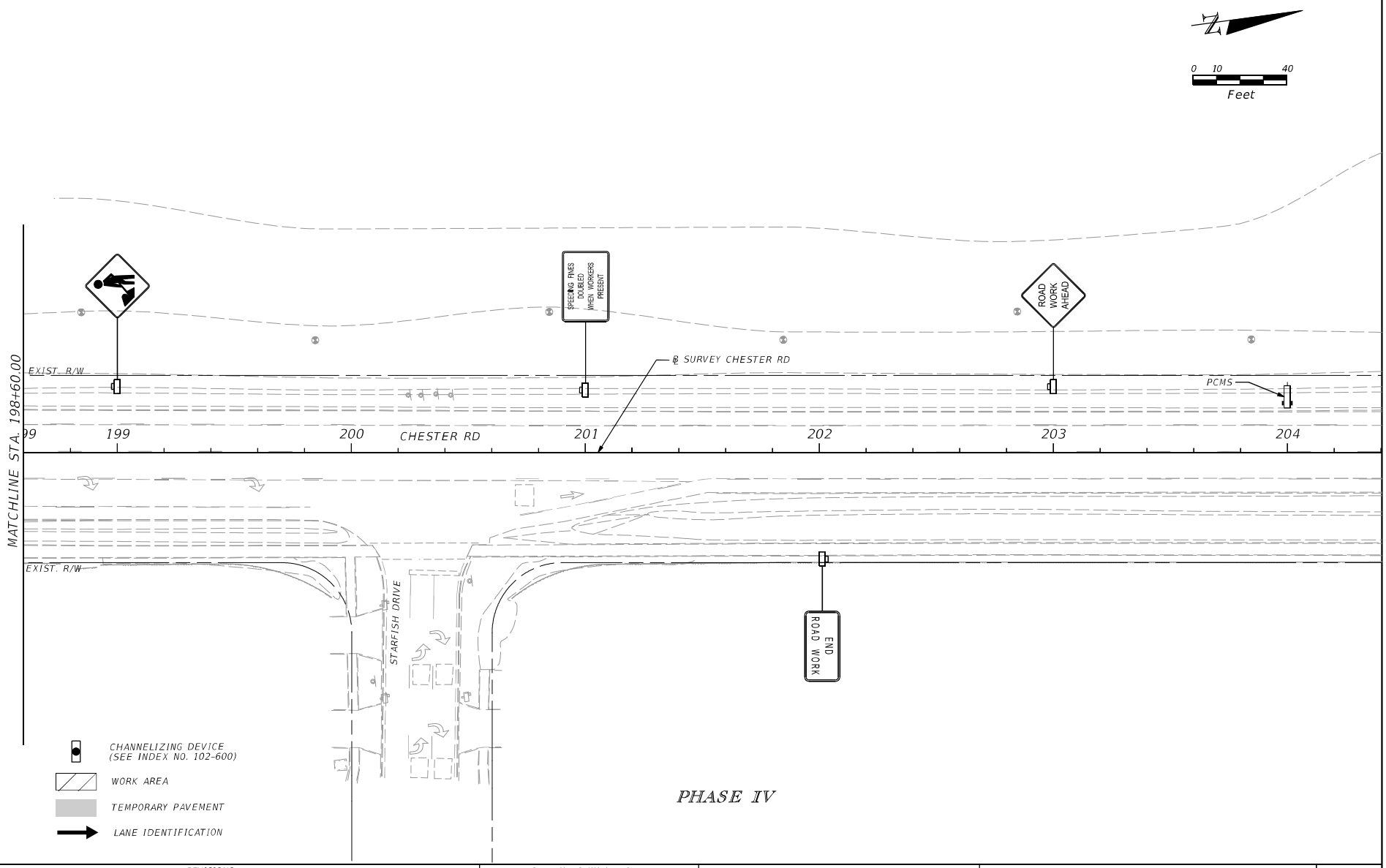

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FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 165

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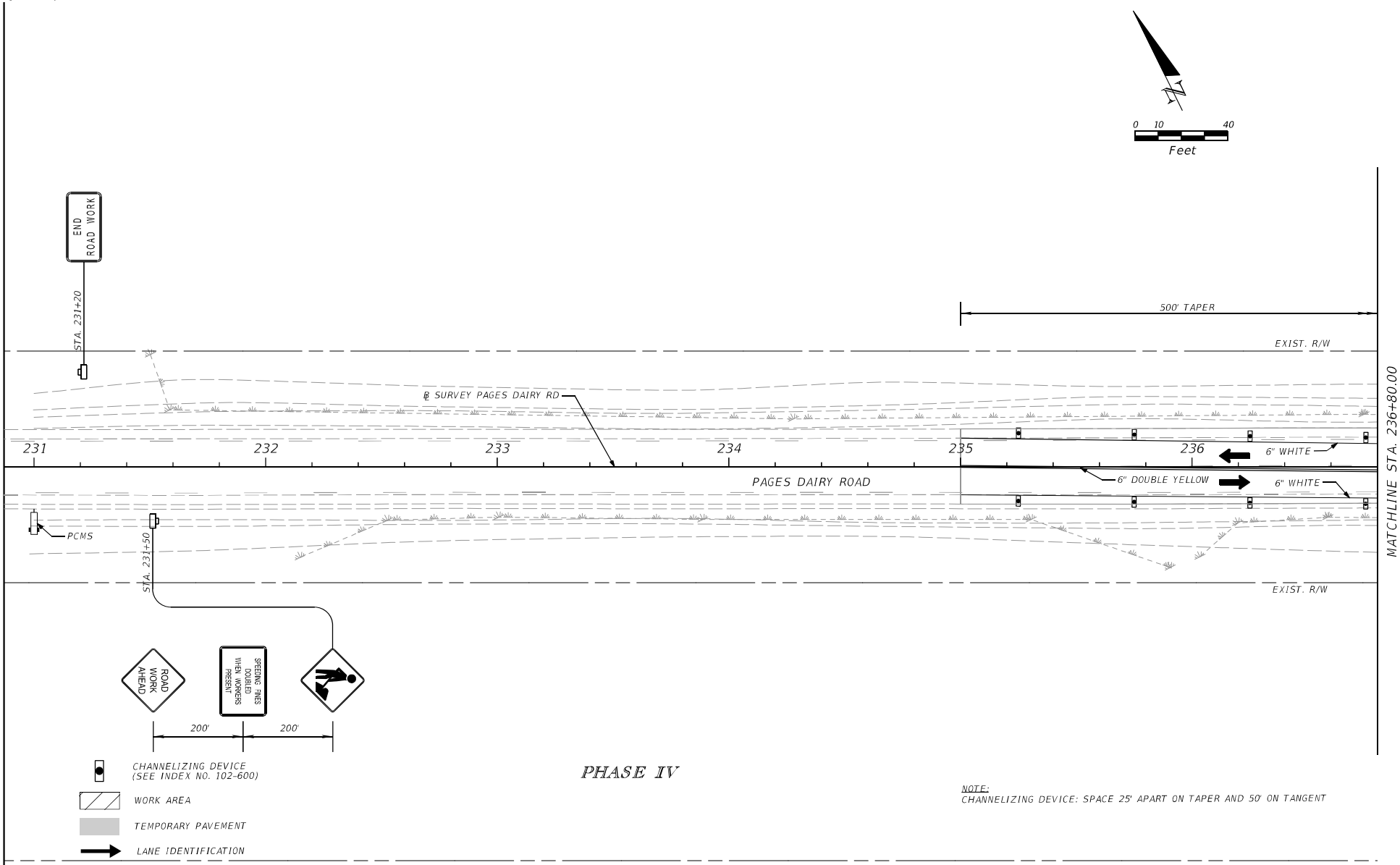

PHASE IV

NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

REVISIONS			
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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 166

Danny 12/14/2023 8:17:40 AM J:\Transportation\Projects\17-01-0202_ChesterInt\trafops\TCP_PH4_09.DGN

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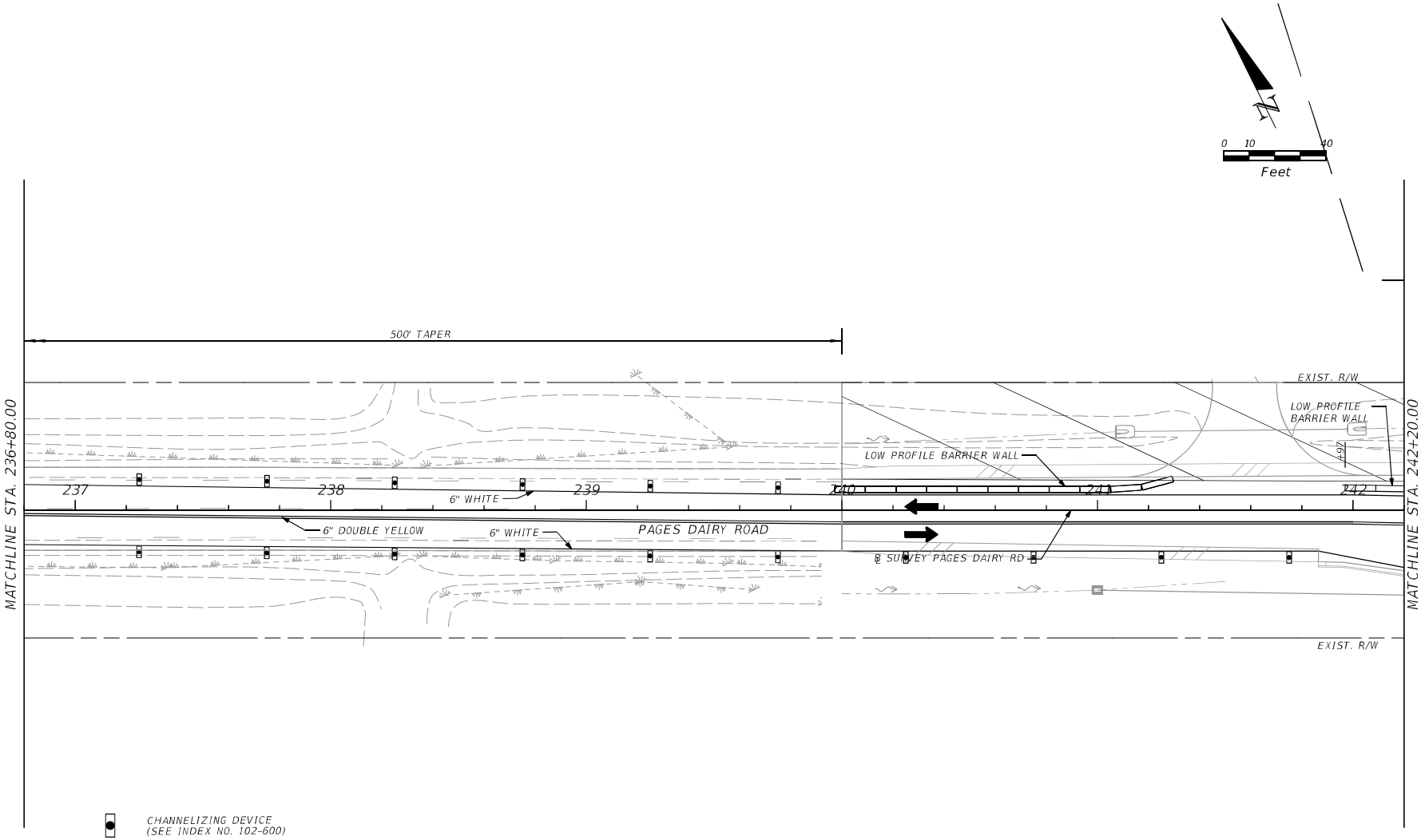

NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

PHASE IV

REVISIONS			
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Connelly & Wicker Inc.
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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 167

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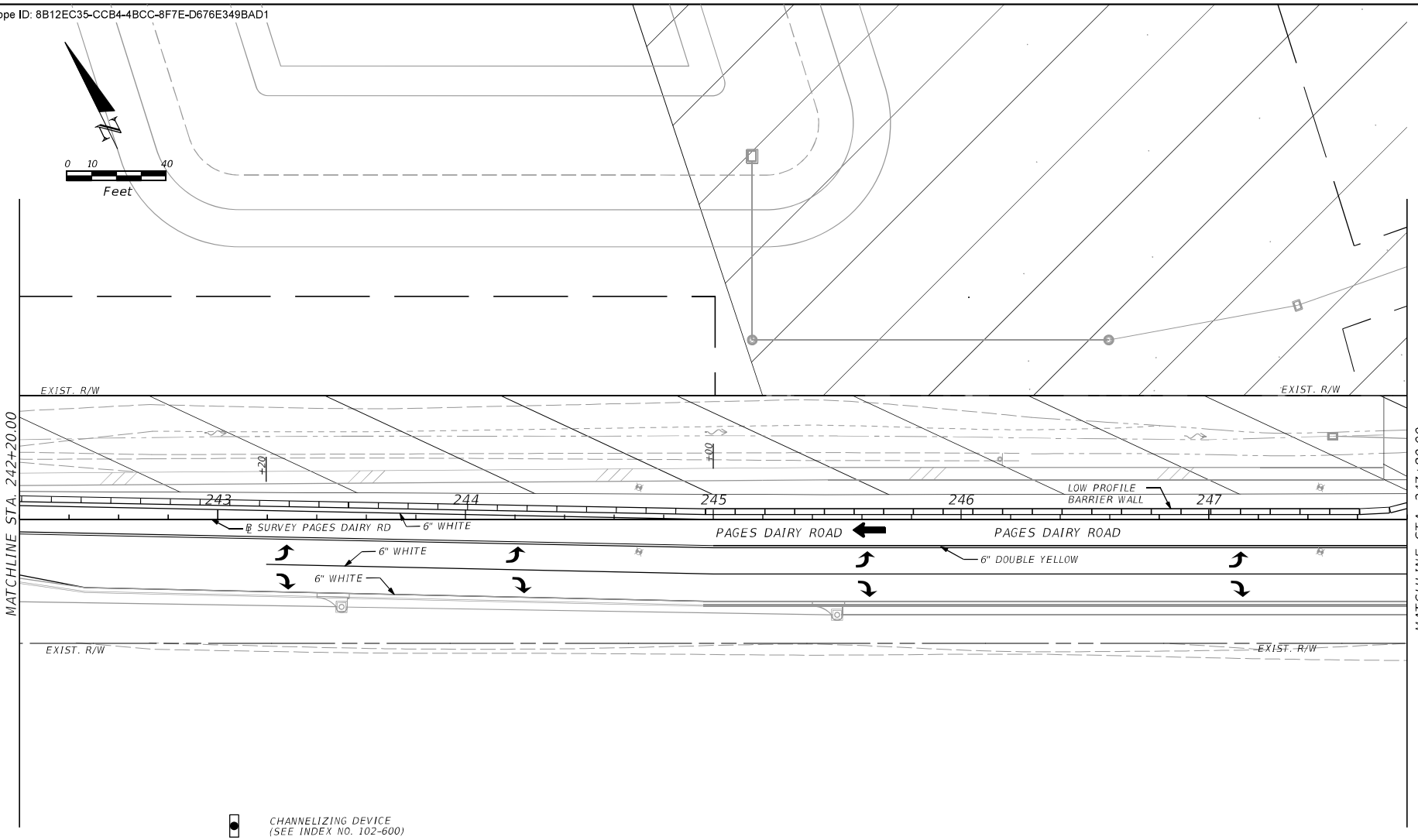

CHANNELIZING DEVICE
(SEE INDEX NO. 102-600)

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. 168

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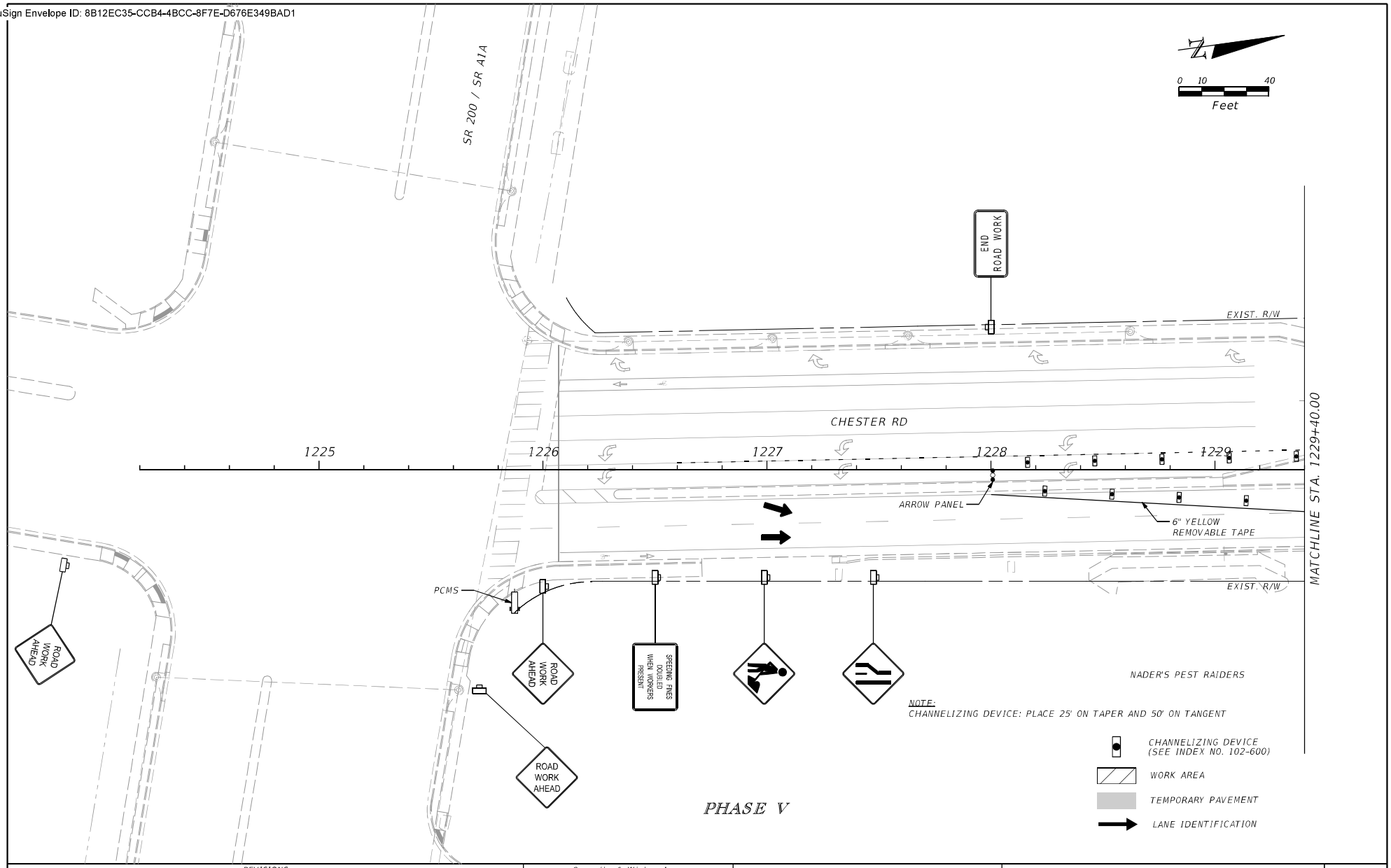

REVISIONS			
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Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

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. 169

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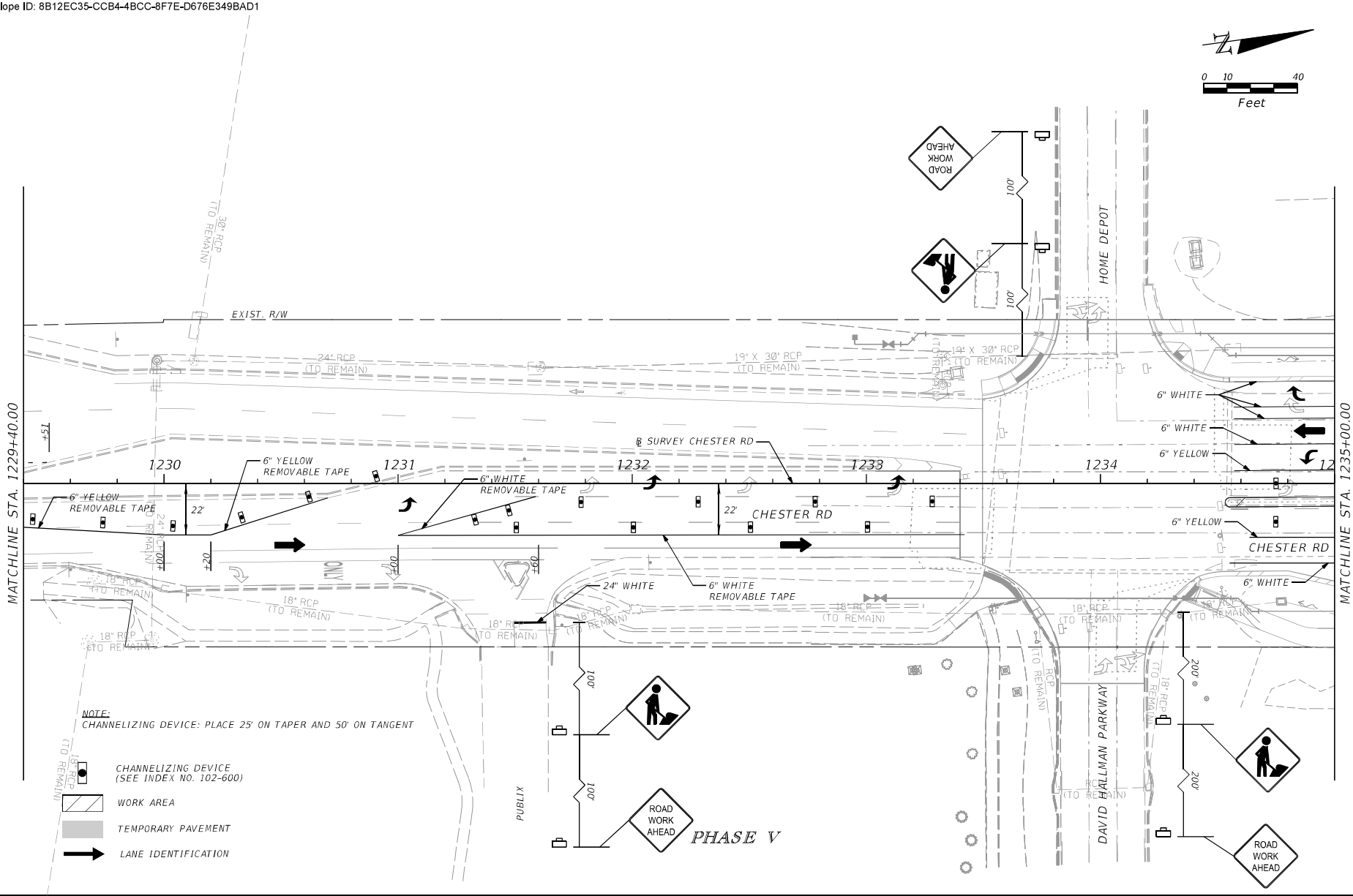

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 170

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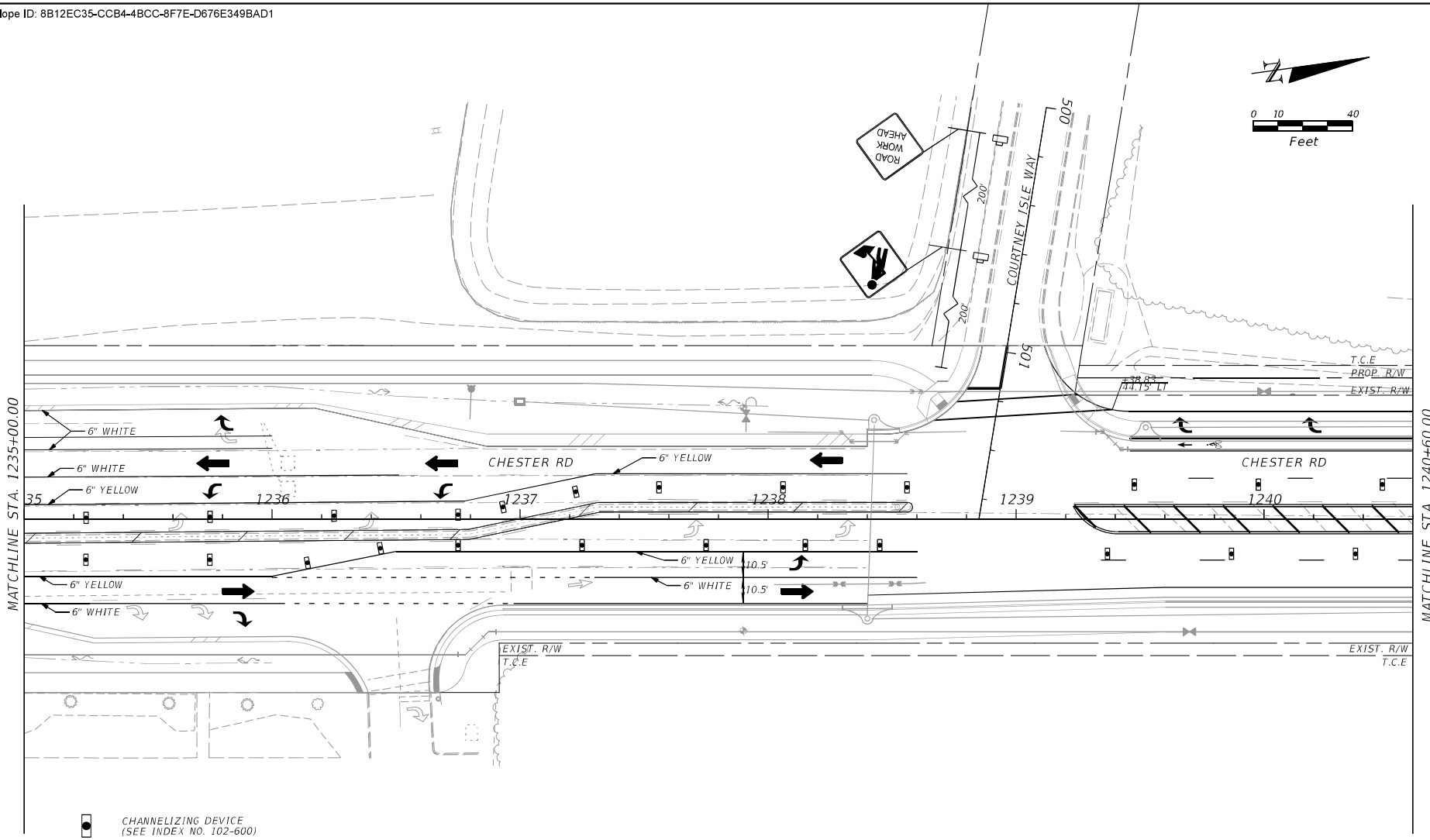

NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

PHASE V

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	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 171

Danny 12/14/2023 8:17:45 AM J:\Transportation\Projects\17-01-0202_ChesterInt\trafops\TCP_PH5_03.DGN

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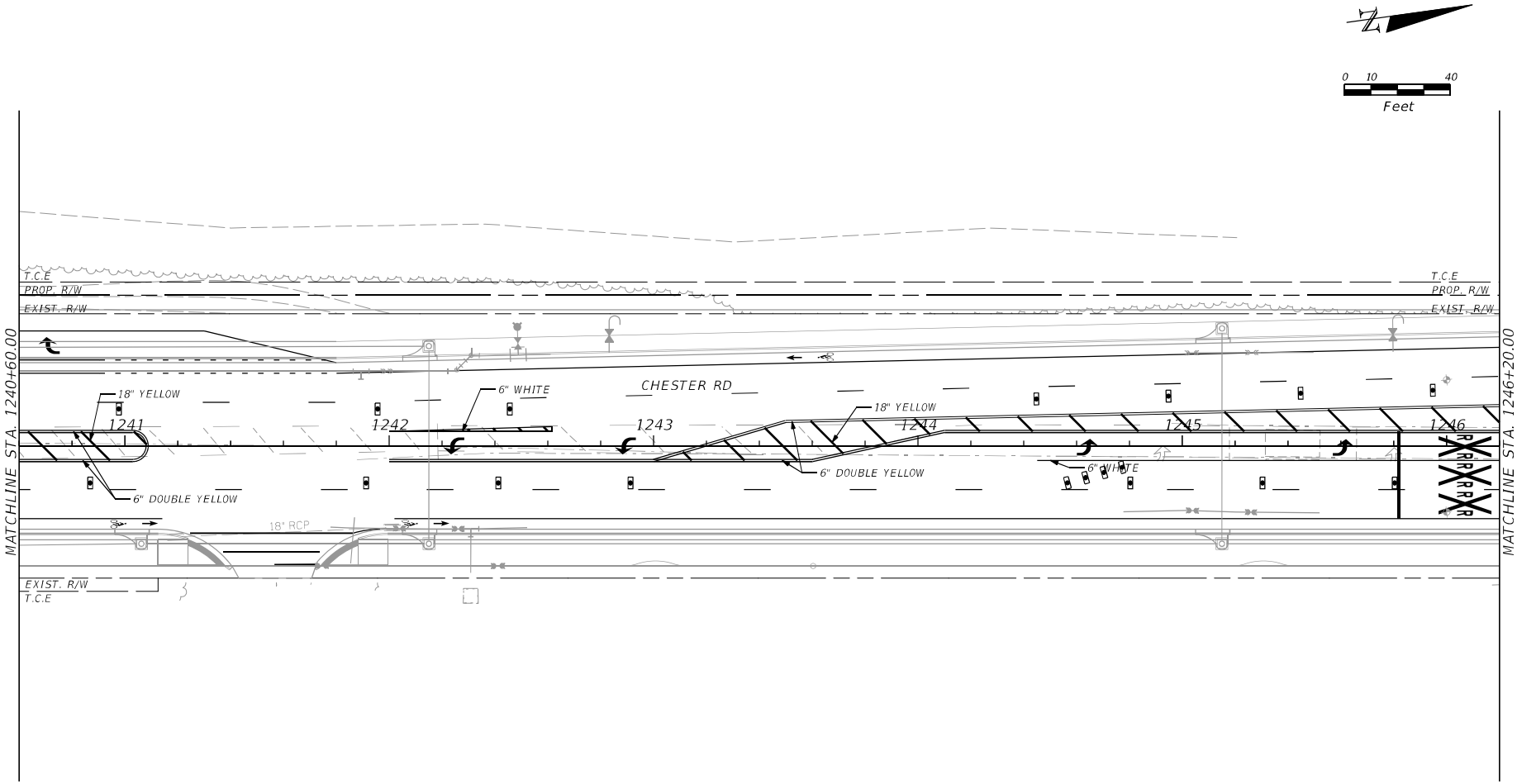

CHANNELIZING DEVICE (SEE INDEX NO. 102-600)

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.
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Jacksonville, FL 32246
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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	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 172

Danny 12/14/2023 8:17:45 AM J:\Transportation\Projects\17-01-0202_ChesterInt\trafops\TCP_PH5_04.DGN

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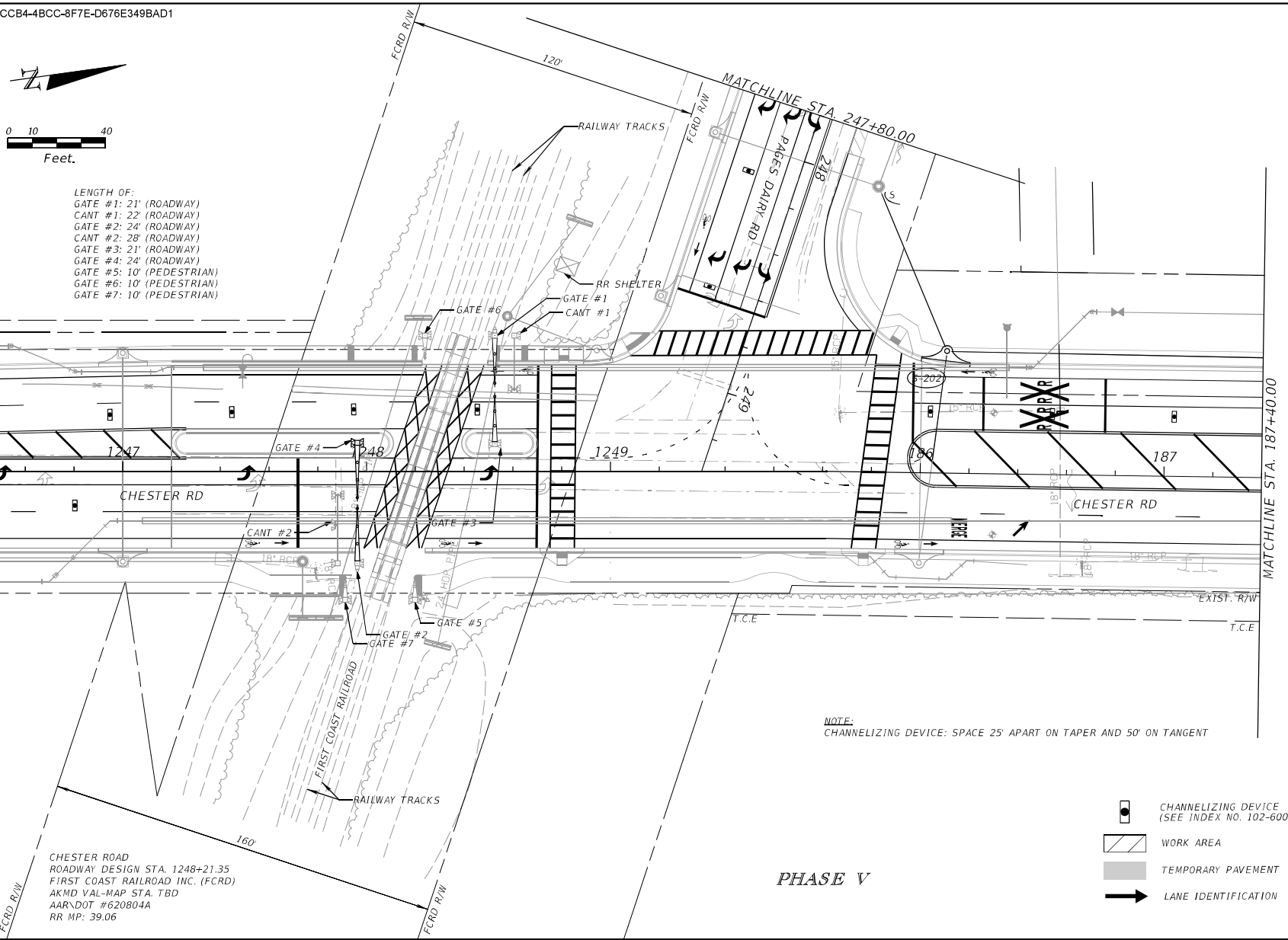

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 173

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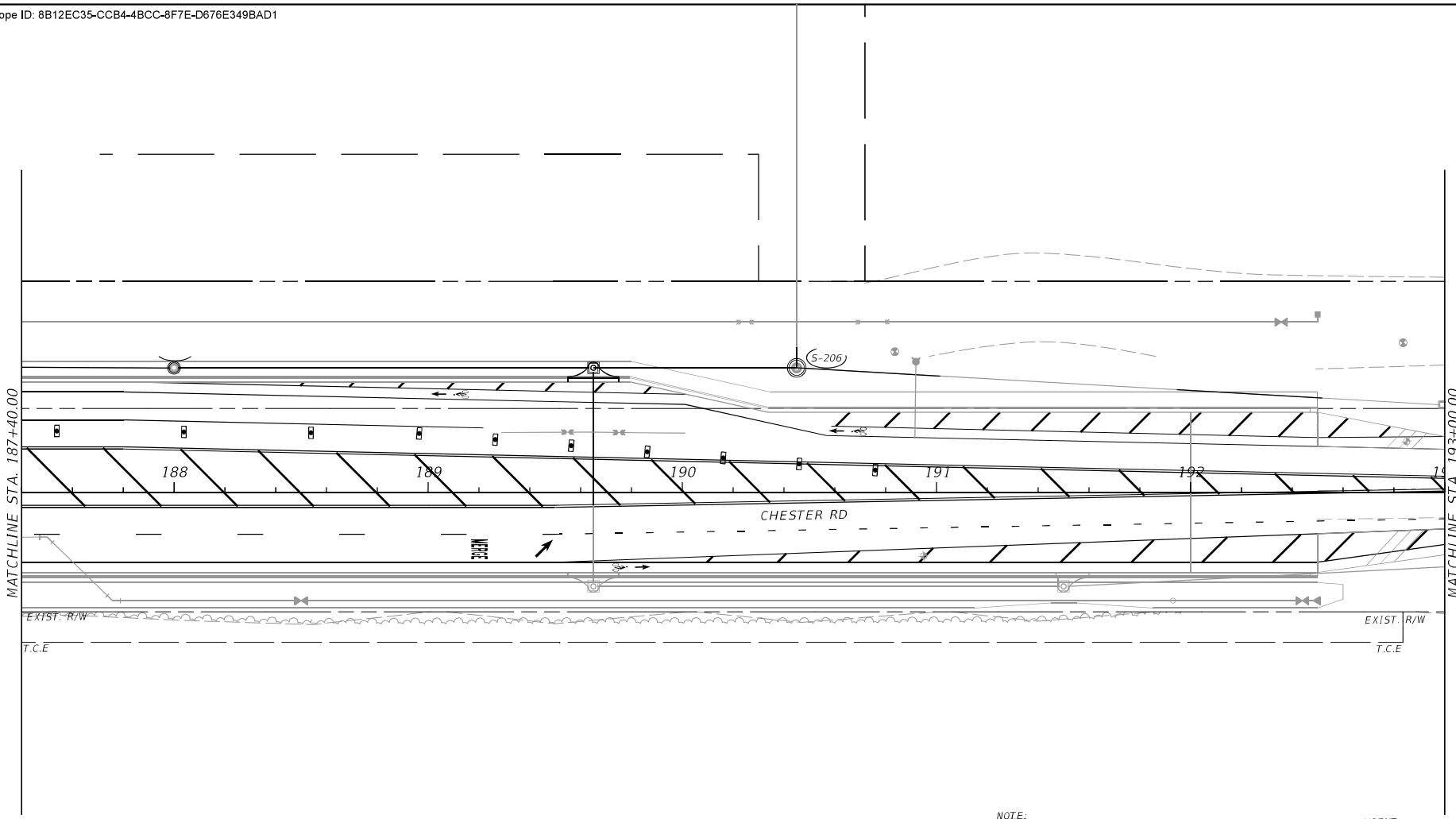

NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

CHANNELIZING DEVICE
(SEE INDEX NO. 102-600)

WORK AREA

TEMPORARY PAVEMENT

LANE IDENTIFICATION

PHASE V

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

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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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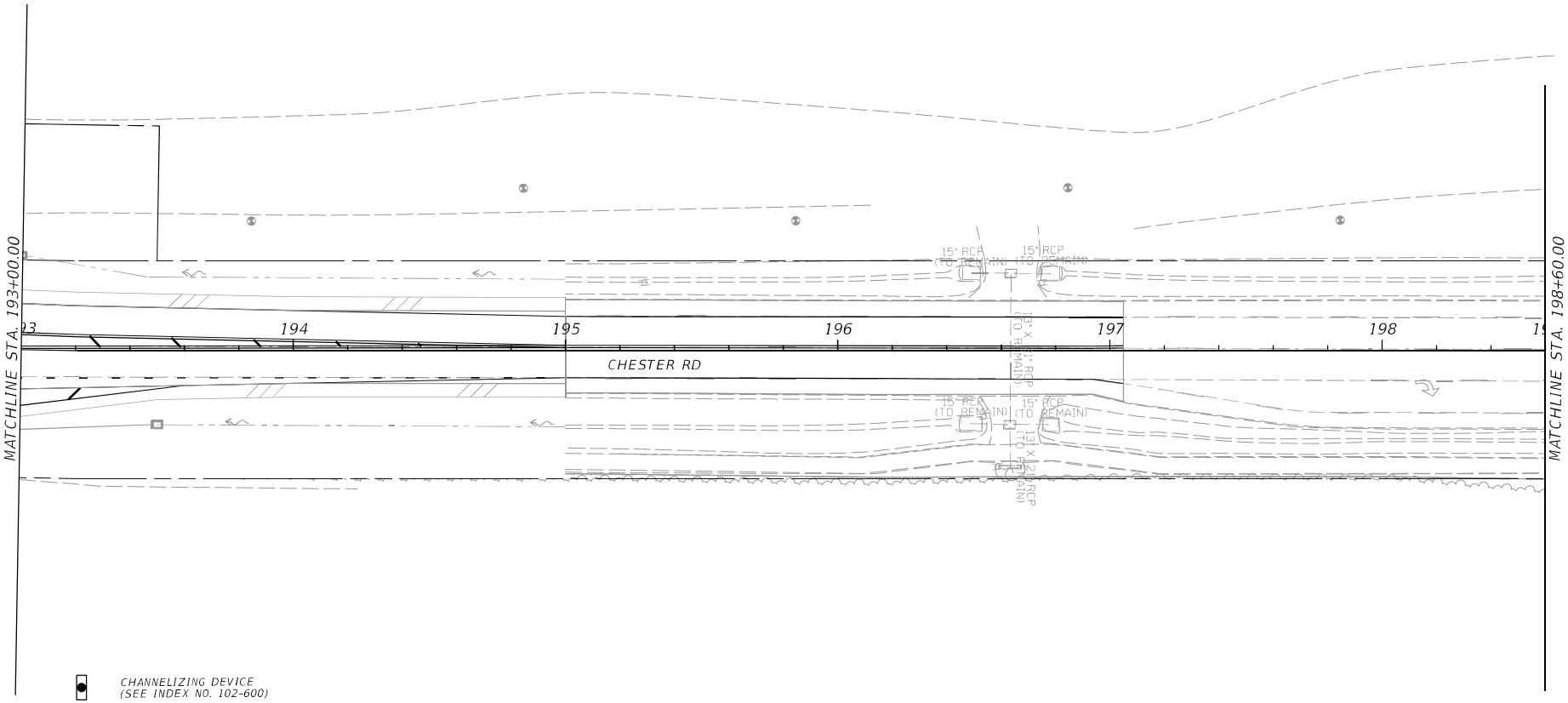

PHASE V

REVISIONS			
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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 175

Danny 12/14/2023 8:17:48 AM J:\Transportation\Projects\17-01-0202_ChesterInt\trafops\TCP_PH5_07.DGN

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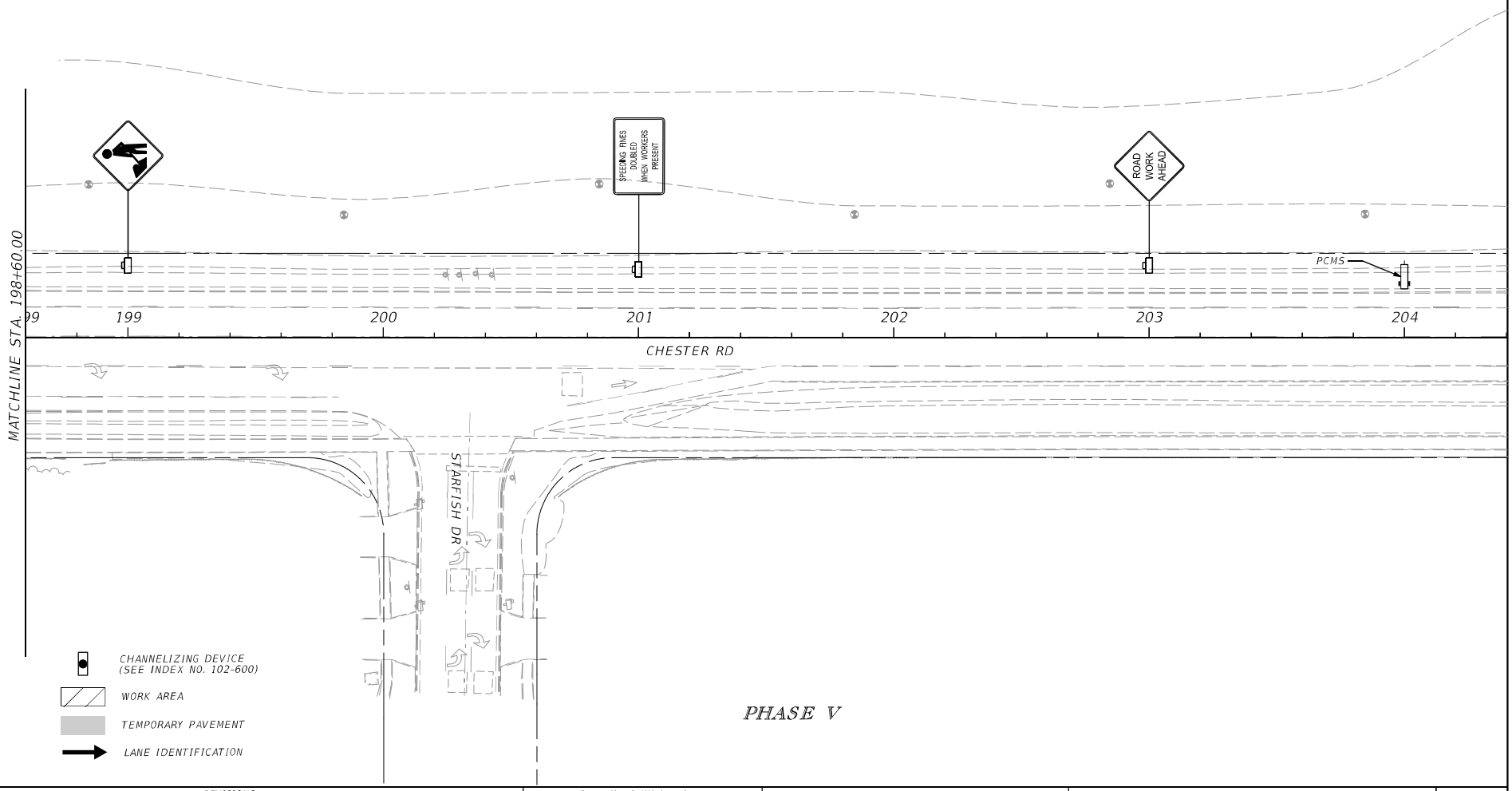

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Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 176

Danny 12/14/2023 8:17:49 AM J:\Transportation\Projects\17-01-0202_ChesterInt\trafops\TCP_PH5_08.DGN

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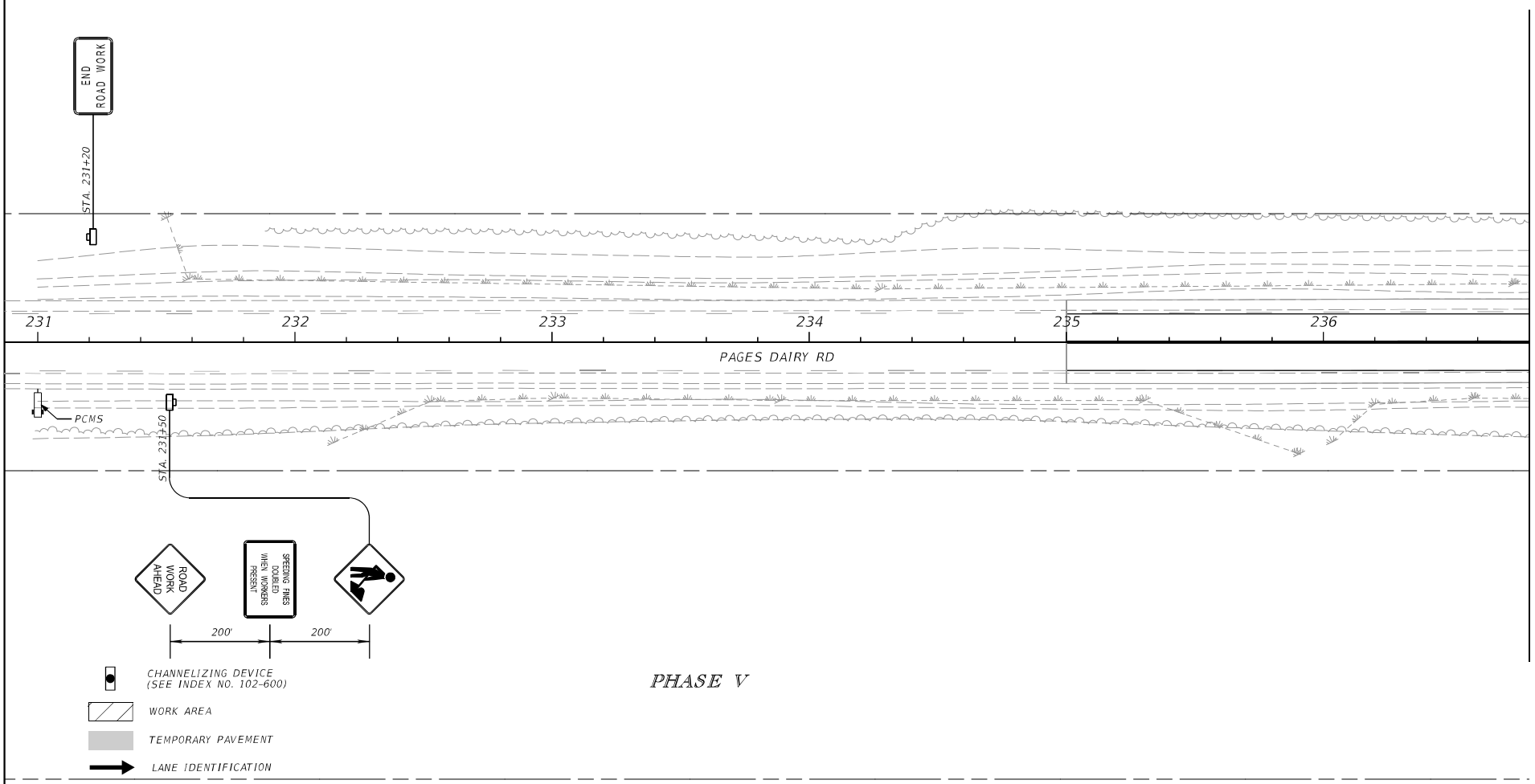

PHASE V

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:
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. 177

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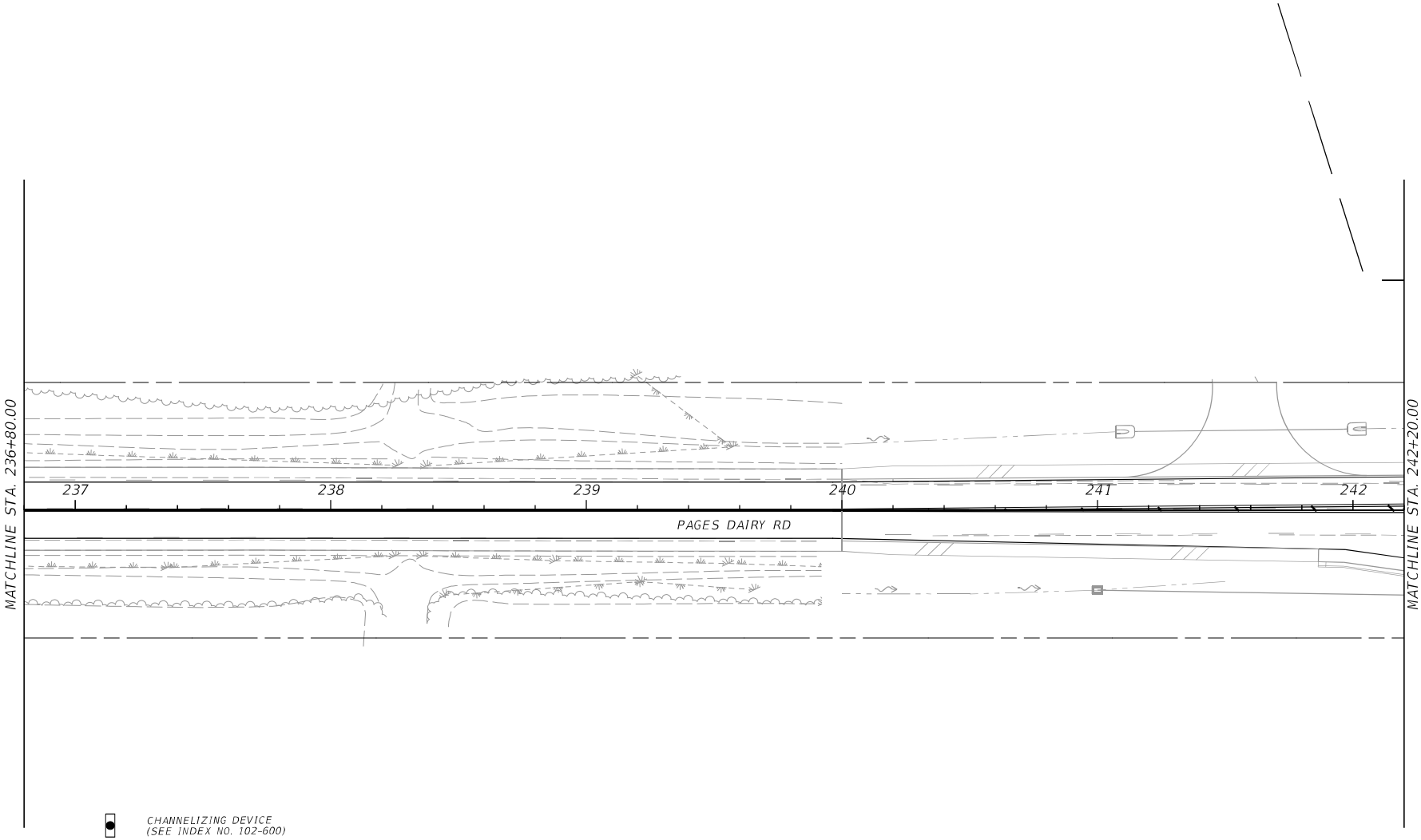

PHASE V

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. 178

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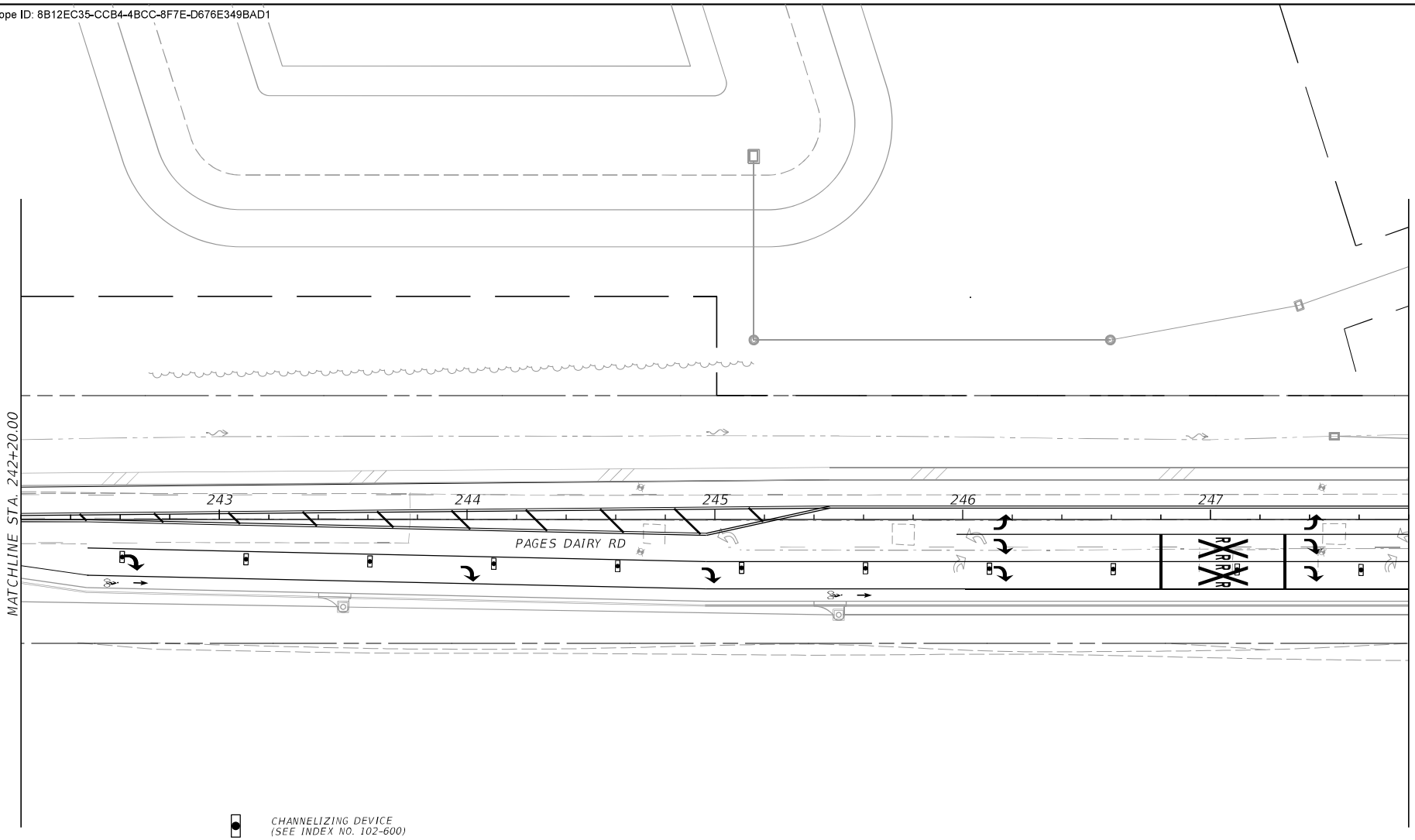

CHANNELIZING DEVICE
(SEE INDEX NO. 102-600)

WORK AREA

TEMPORARY PAVEMENT

LANE IDENTIFICATION

NOTE:
CHANNELIZING DEVICE: SPACE 25' APART ON TAPER AND 50' ON TANGENT

PHASE V

REVISIONS			
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10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TEMPORARY TRAFFIC CONTROL PLANS

SHEET NO. 179

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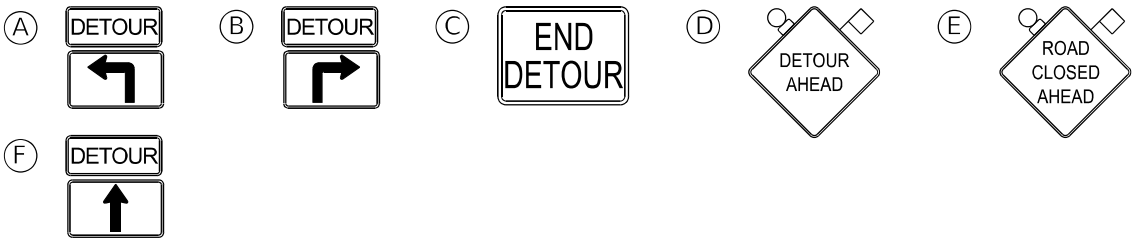
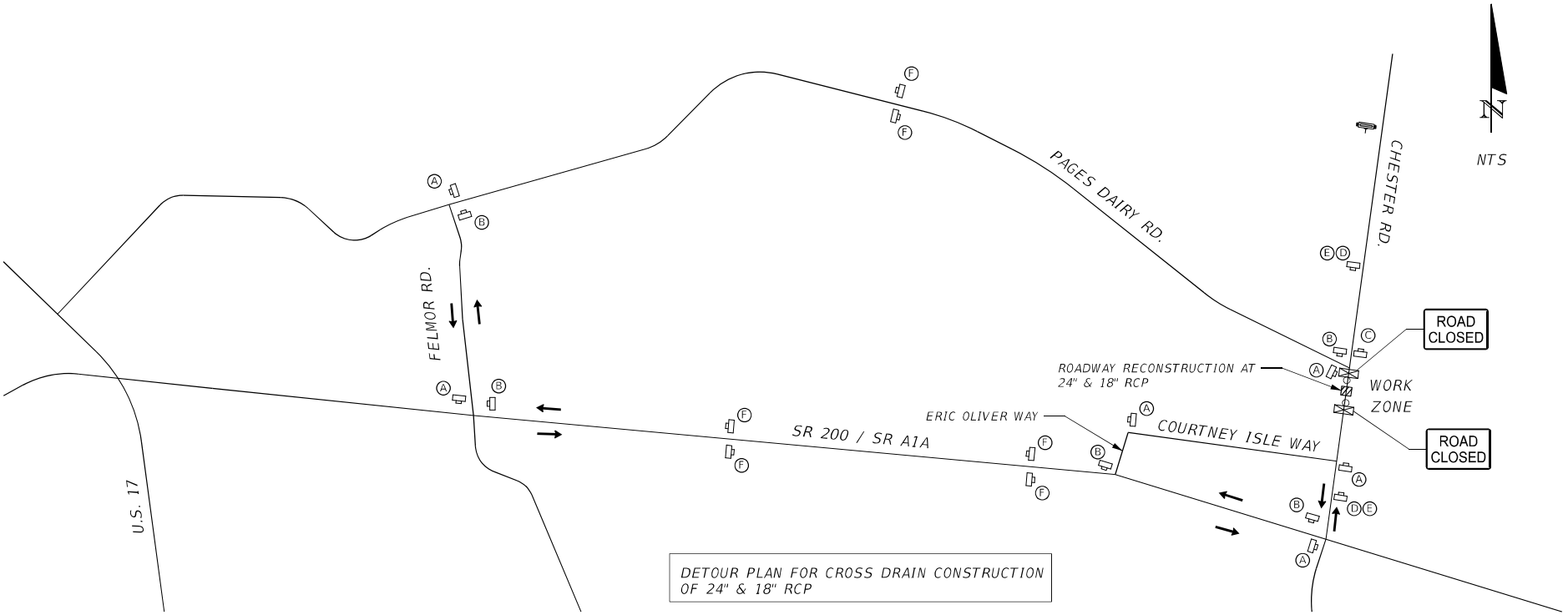
LEGEND

- 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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
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	

CHESTER ROAD
DETOUR PLAN - RAILROAD

SHEET NO. 180

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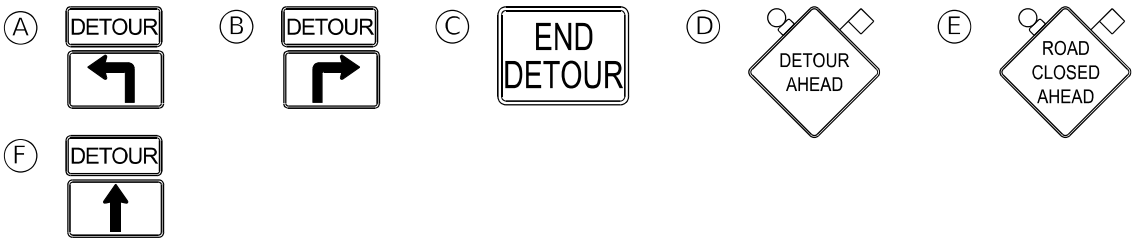
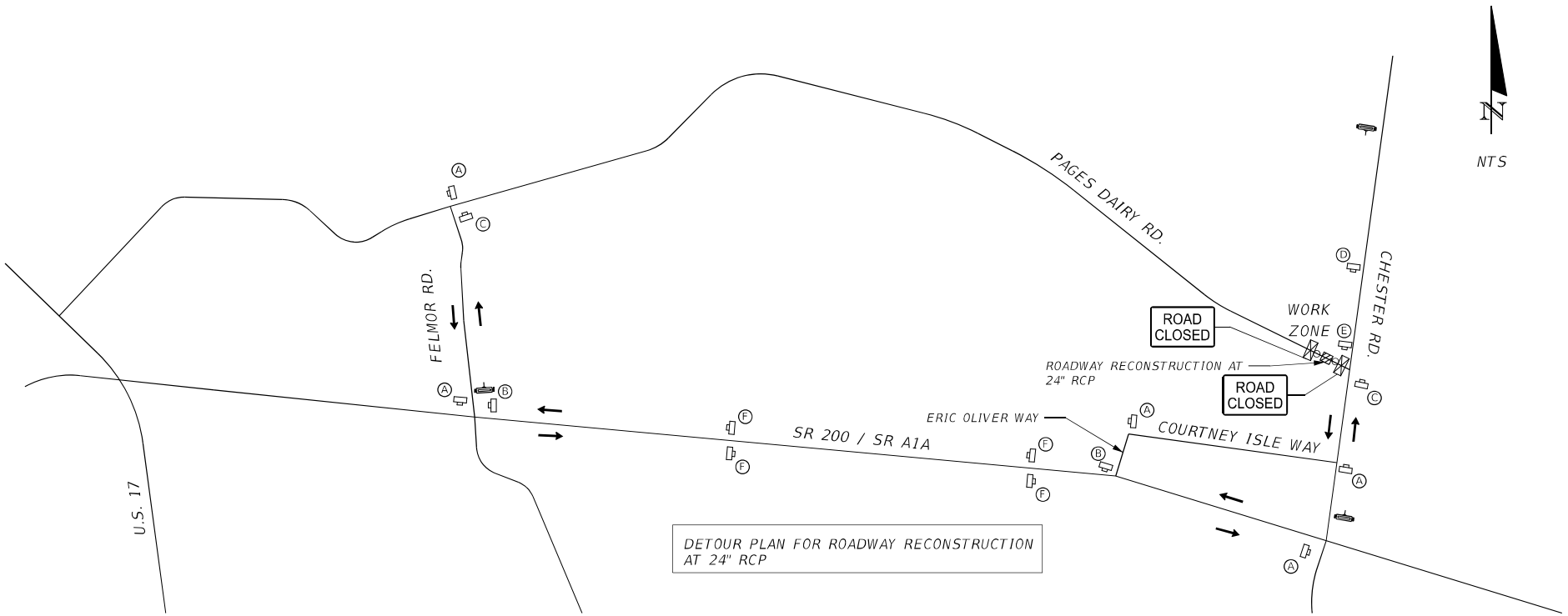
LEGEND

- 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 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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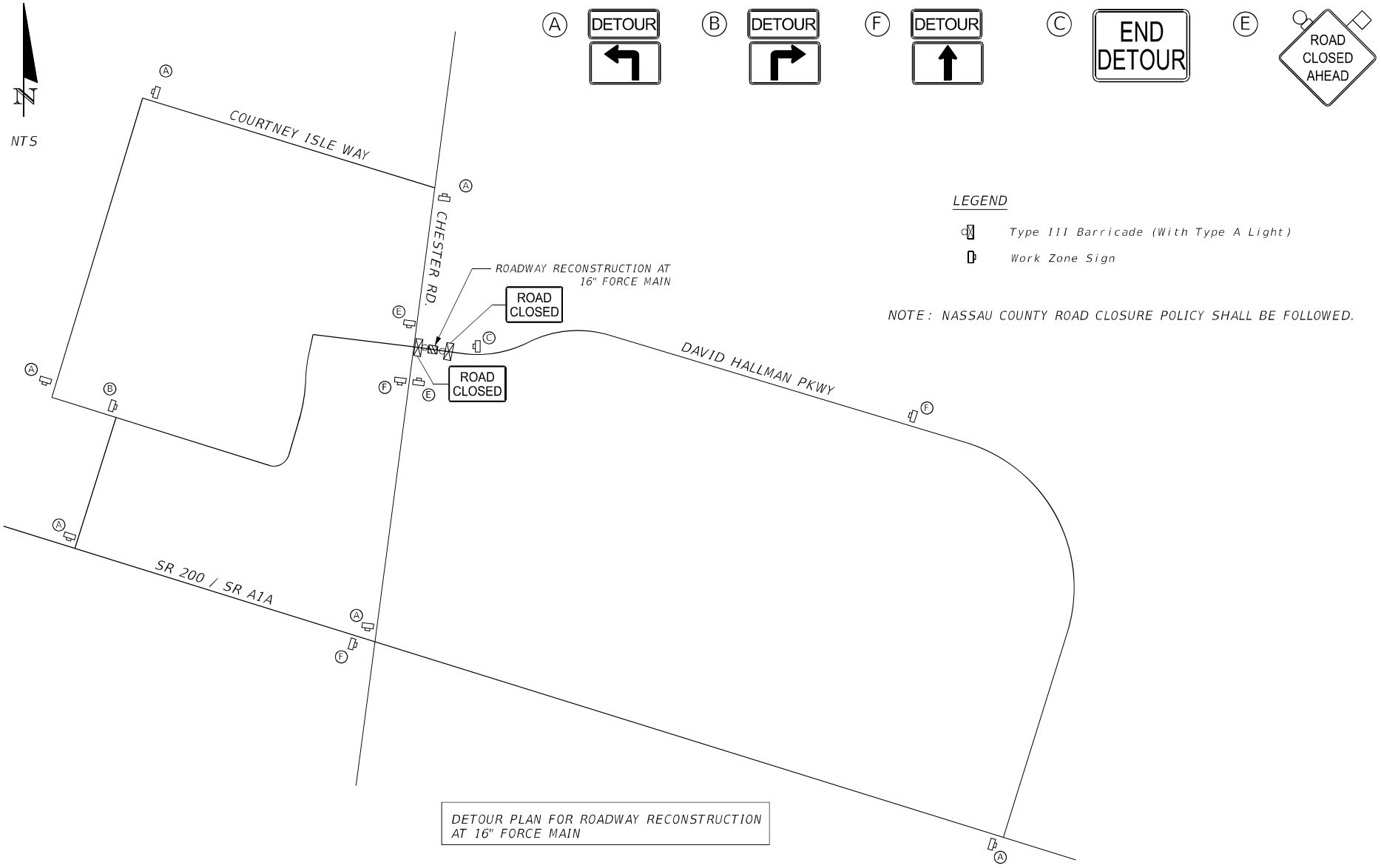

DETOUR PLAN FOR ROADWAY RECONSTRUCTION AT 16" FORCE MAIN

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:
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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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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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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

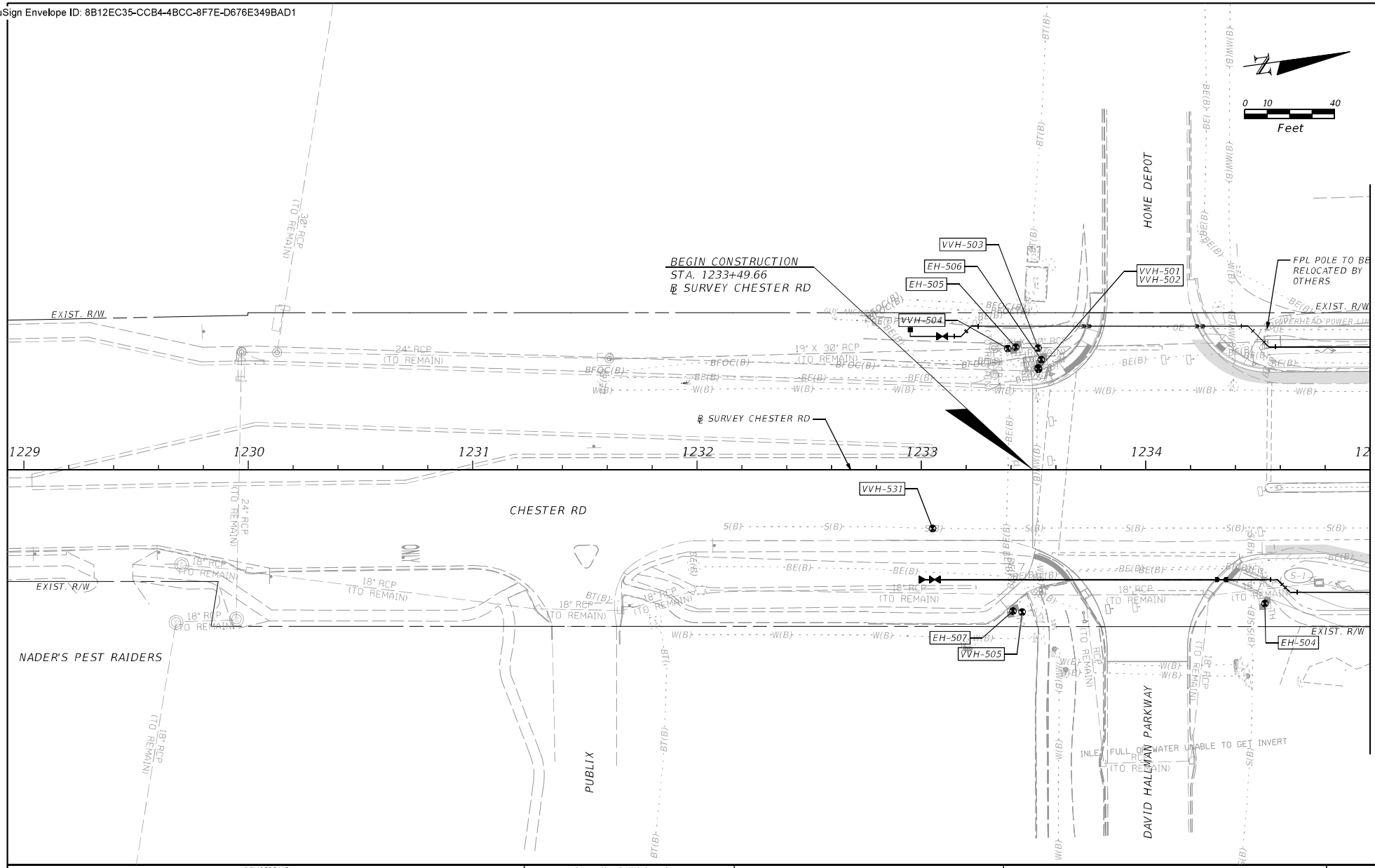
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

SUMMARY OF VERIFIED UTILITIES

SHEET NO. 183

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1



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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

UTILITY ADJUSTMENTS

SHEET NO. 184

Danny 12/14/2023 8:17:55 AM J:\Transportation\Projects\17-01-0202_ChesterInt\utils\UTADUW01.DGN

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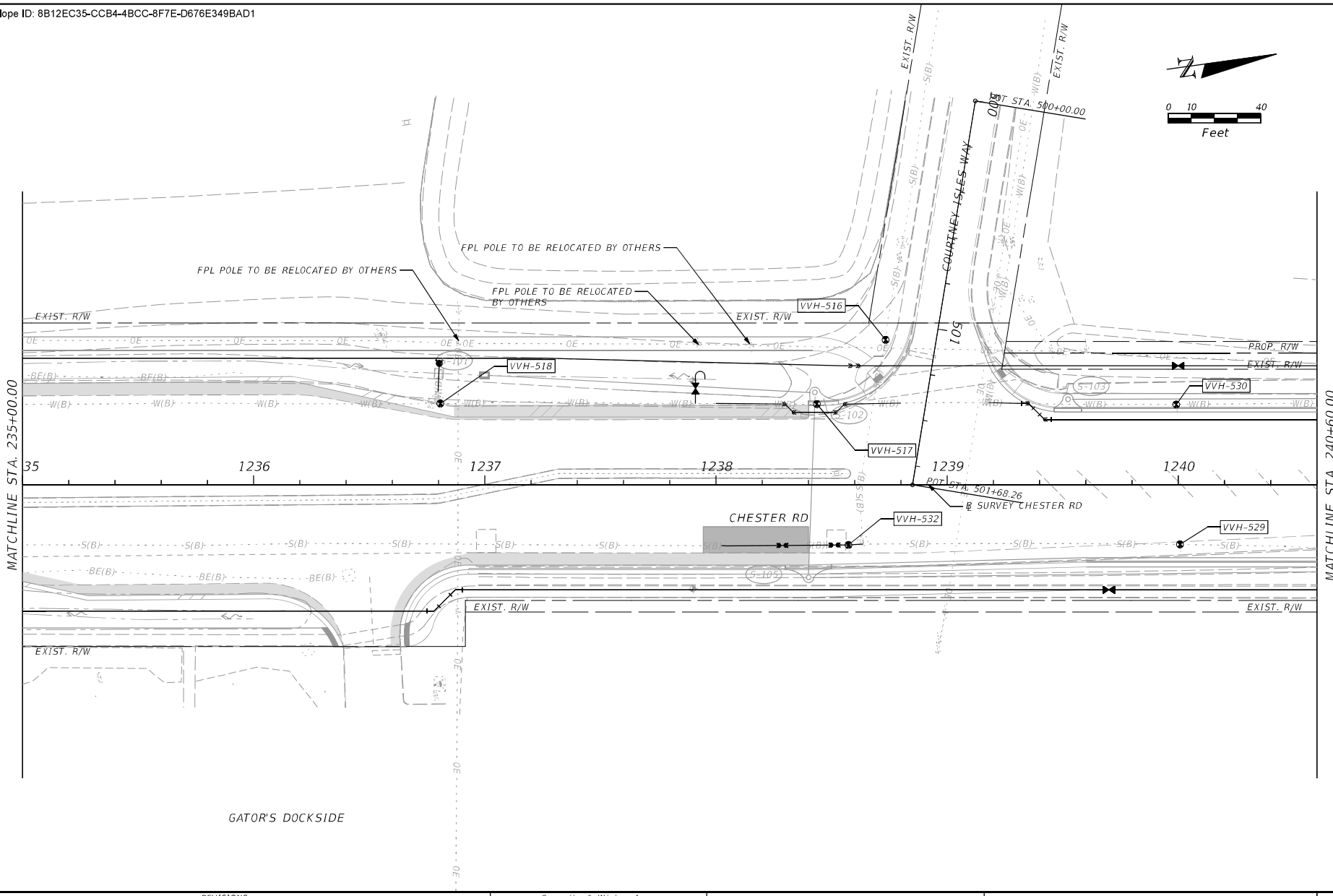

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

UTILITY ADJUSTMENTS

SHEET NO. 185

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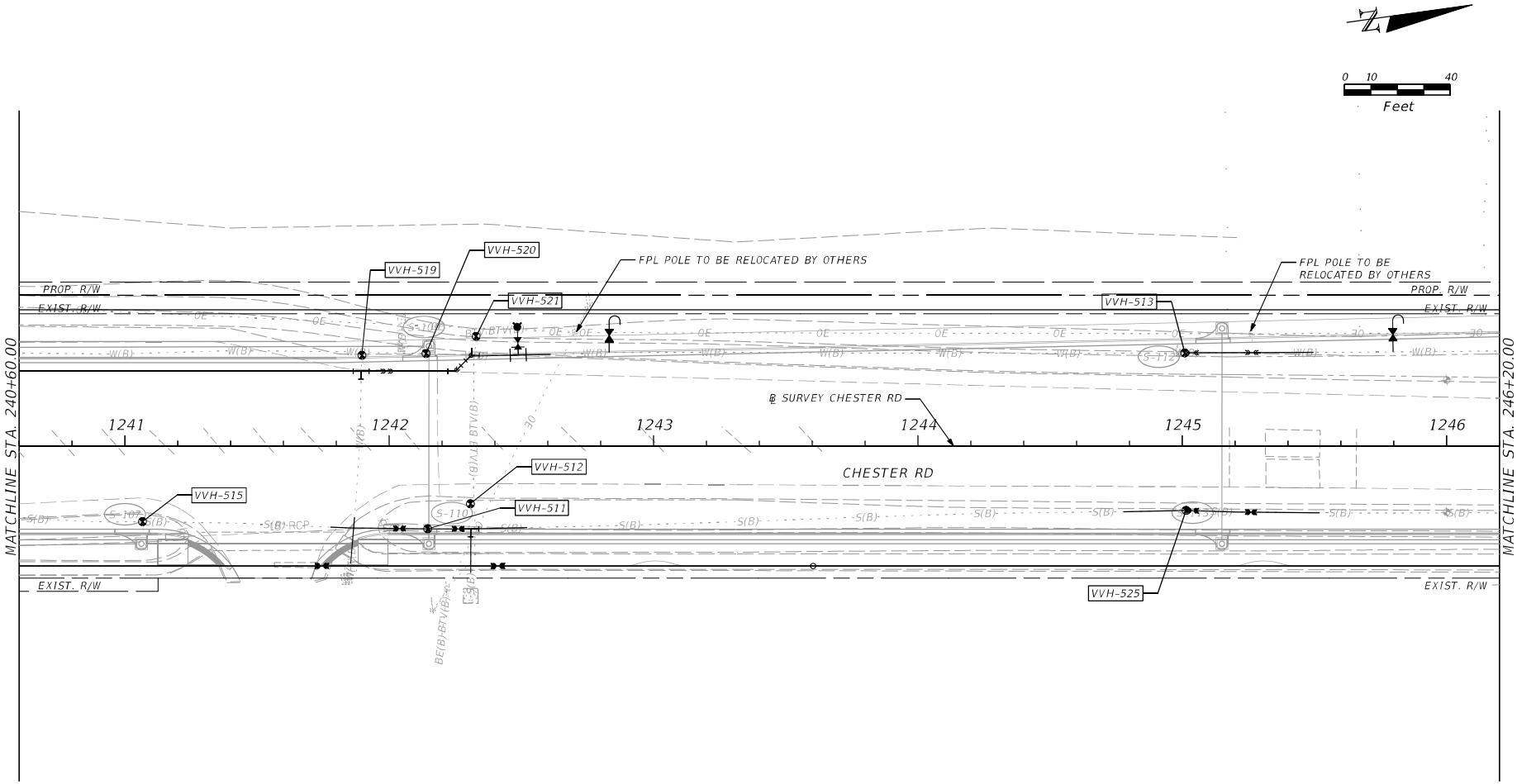

FANTASTIC GYMNASTICS SPRINGER CONTROLS COMPANY FASTENAL

REVISIONS			
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NASSAU COUNTY ENGINEERING

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UTILITY ADJUSTMENTS

SHEET NO. 186

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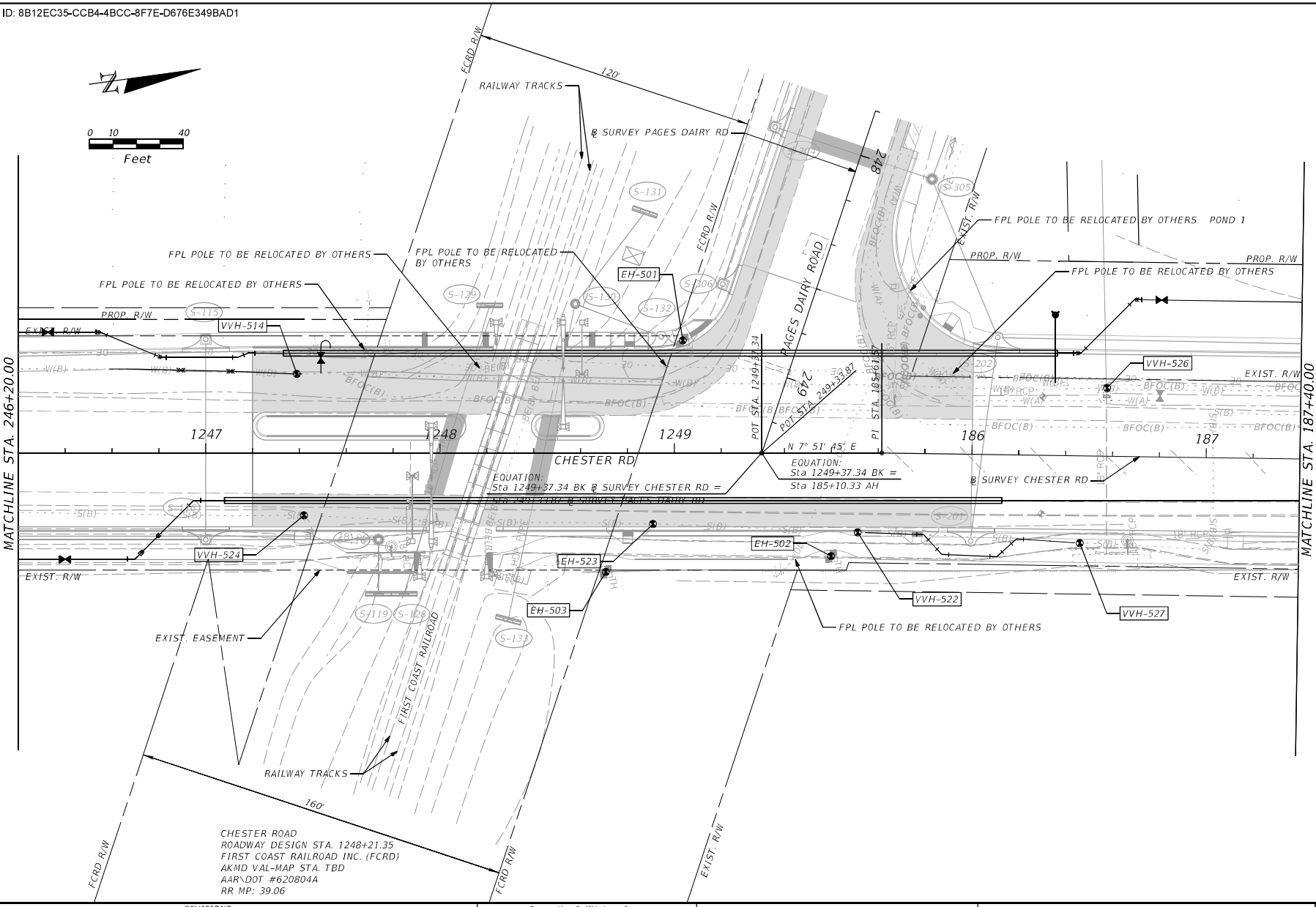

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

UTILITY ADJUSTMENTS

SHEET NO. 187

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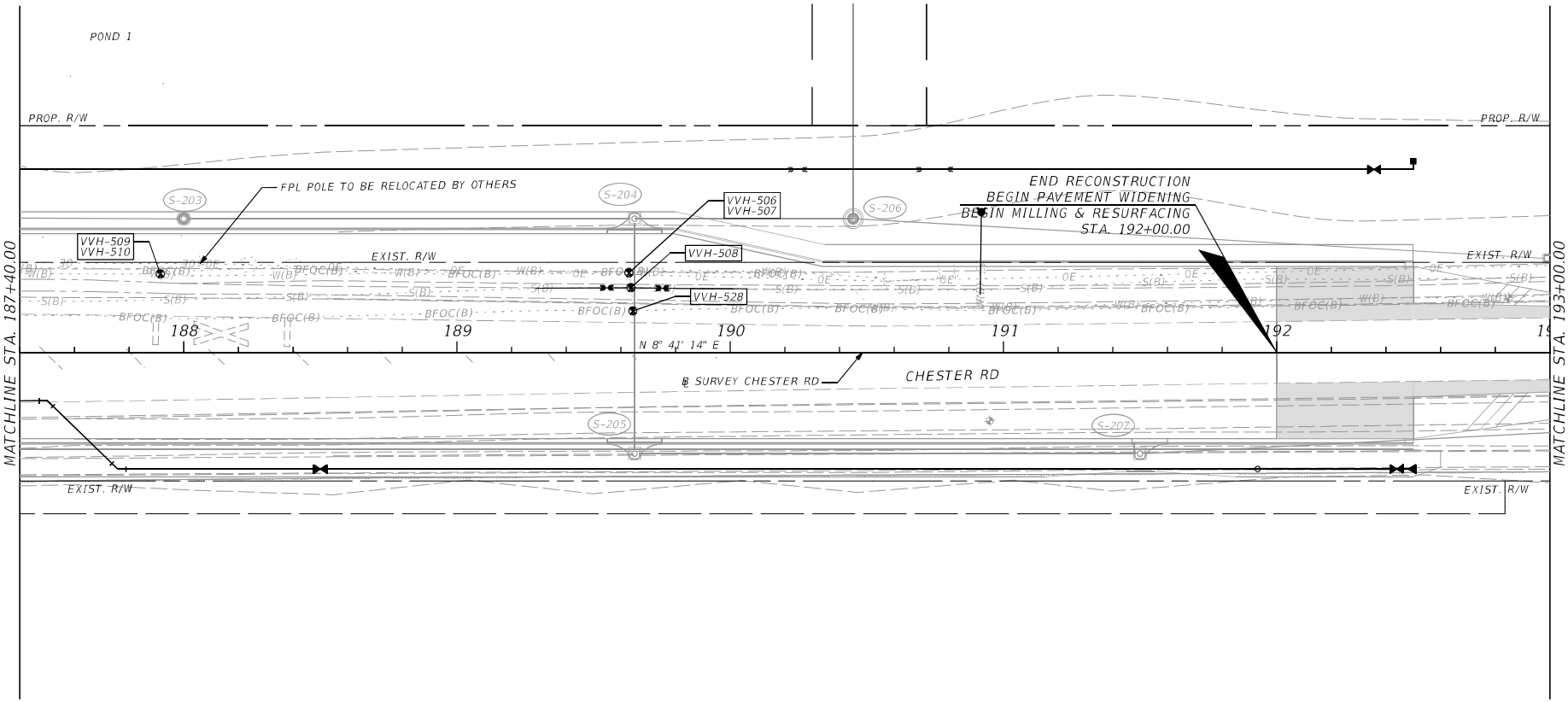

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NASSAU COUNTY ENGINEERING

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UTILITY ADJUSTMENTS

SHEET NO. 188

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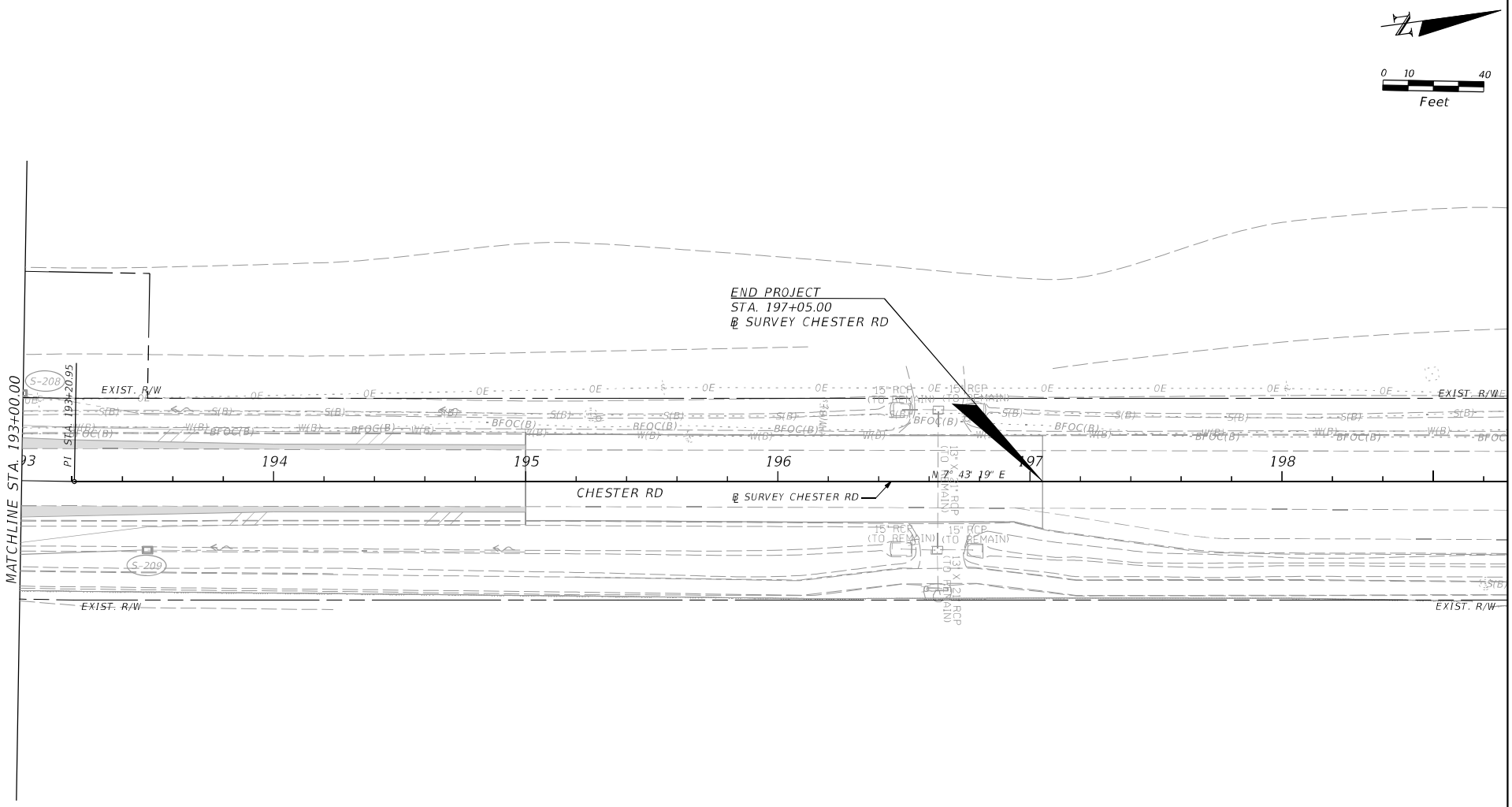

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NASSAU COUNTY ENGINEERING

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UTILITY ADJUSTMENTS

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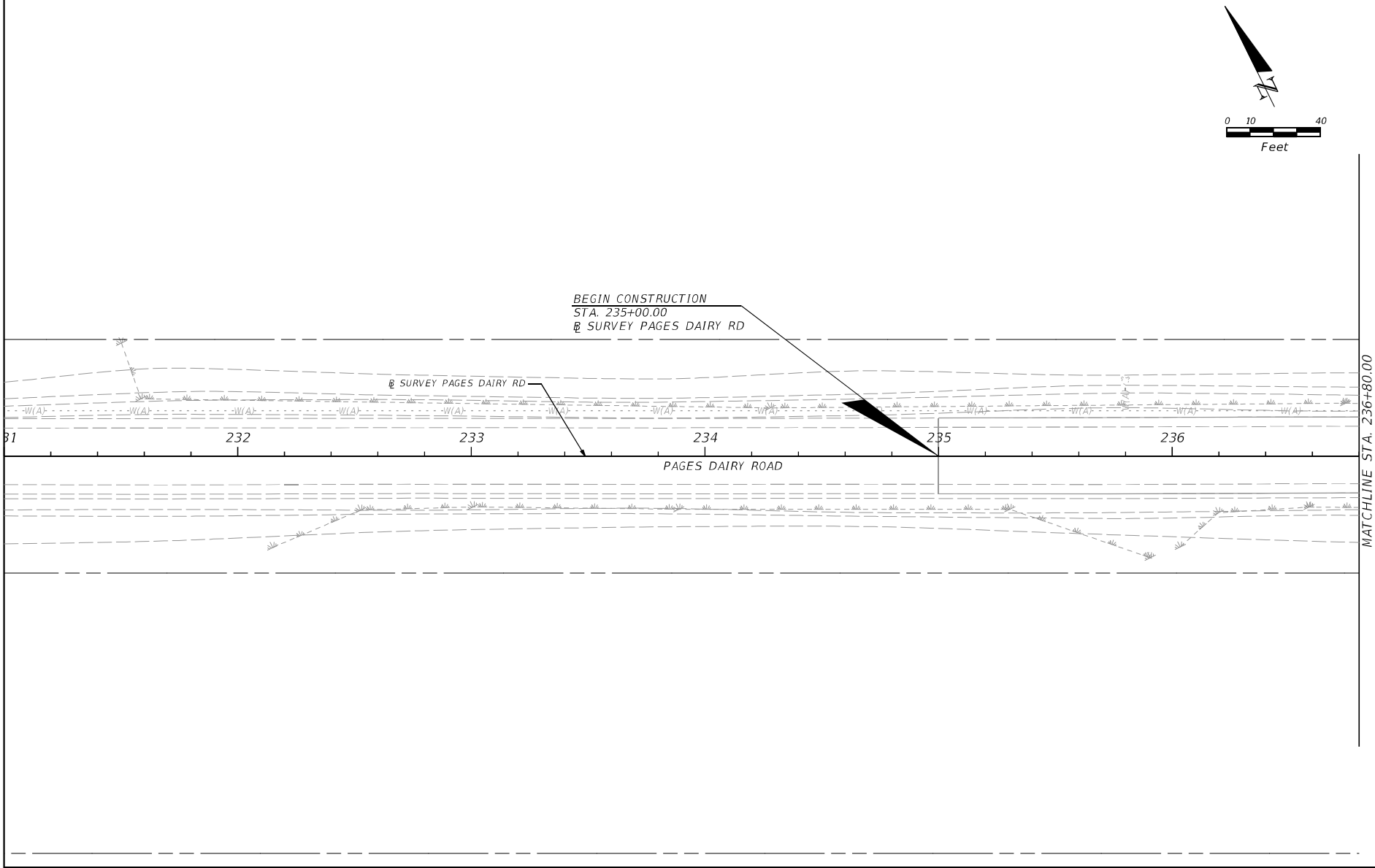

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NASSAU COUNTY ENGINEERING

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UTILITY ADJUSTMENTS

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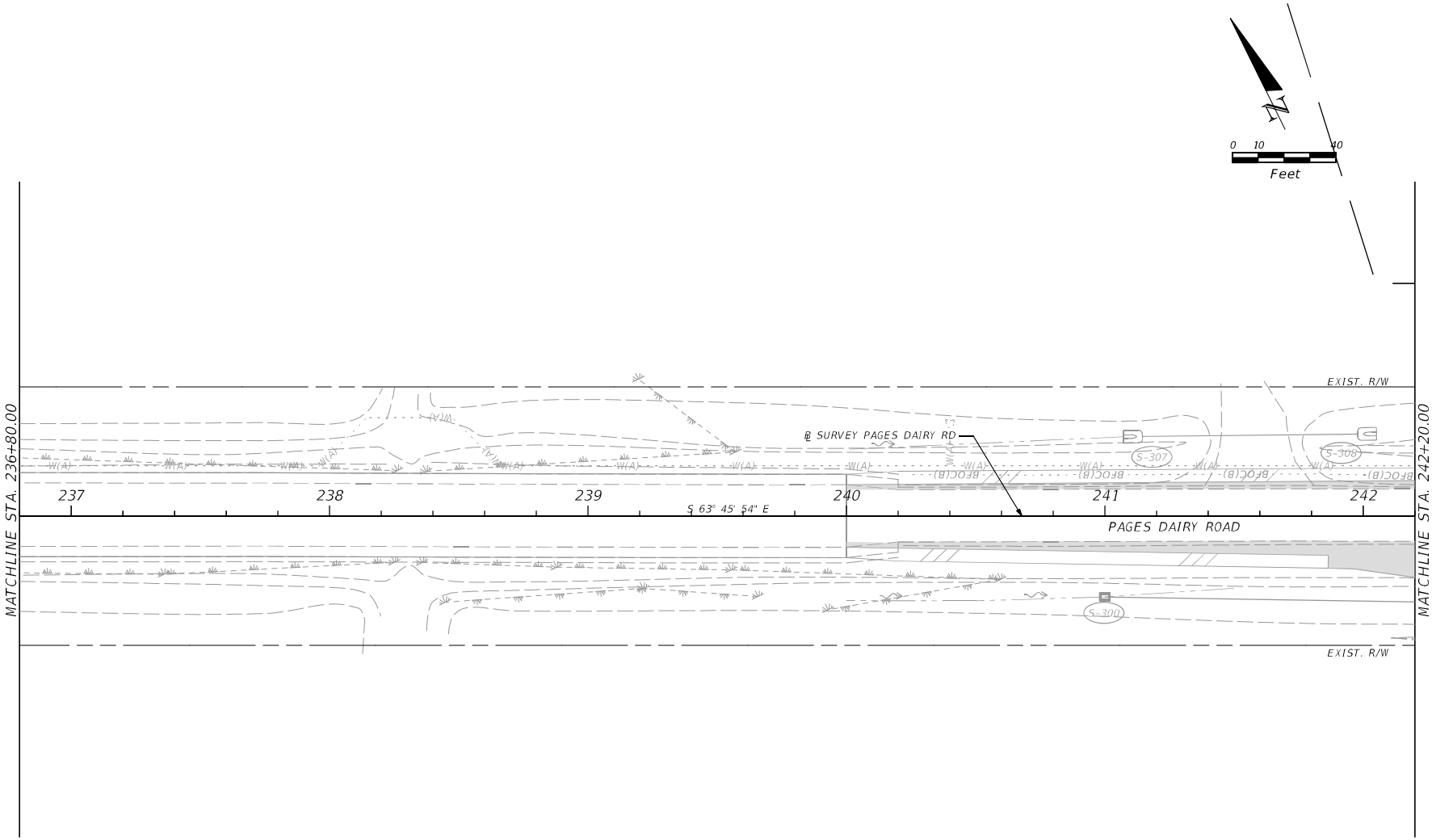

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UTILITY ADJUSTMENTS

SHEET NO. 191

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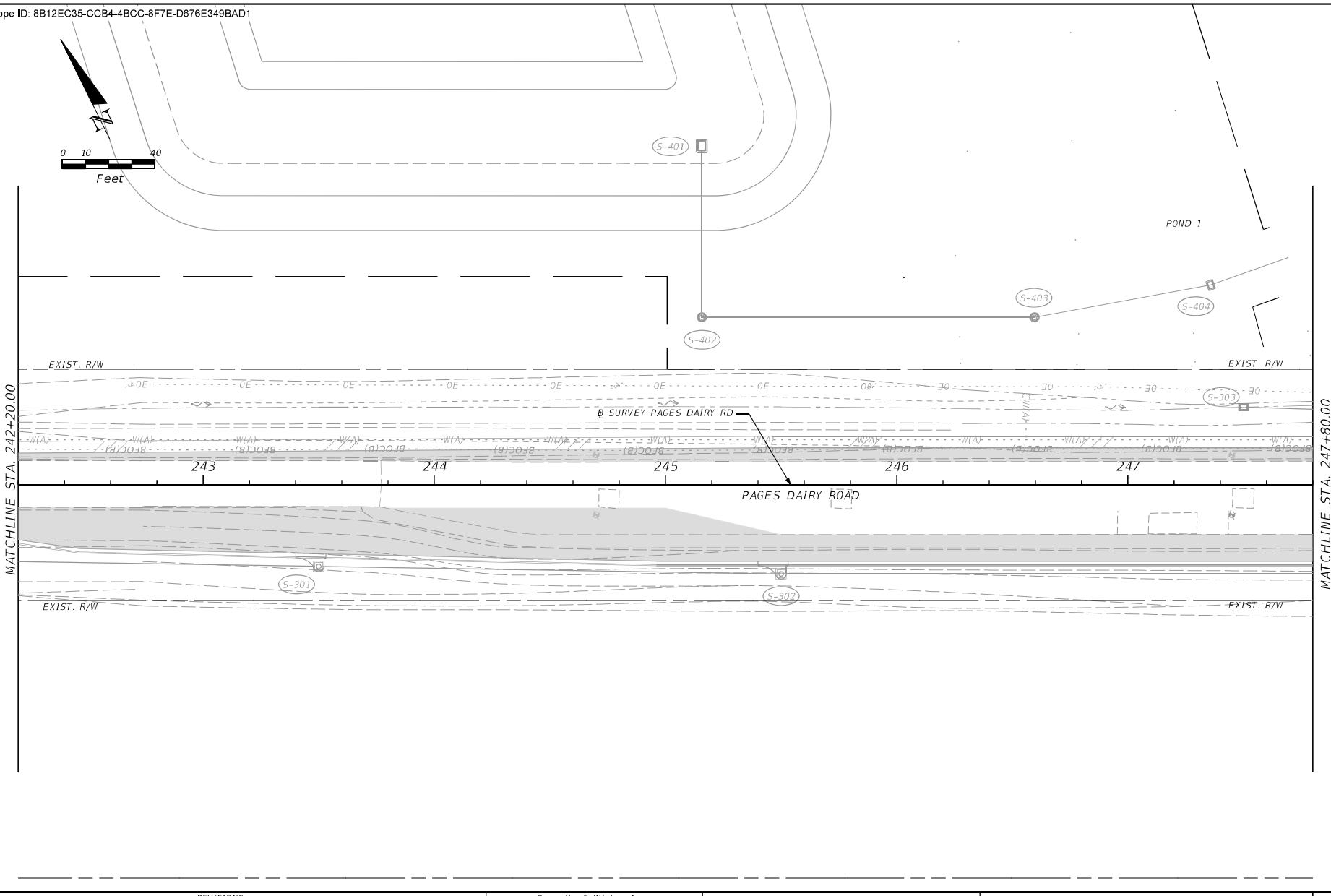

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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	

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

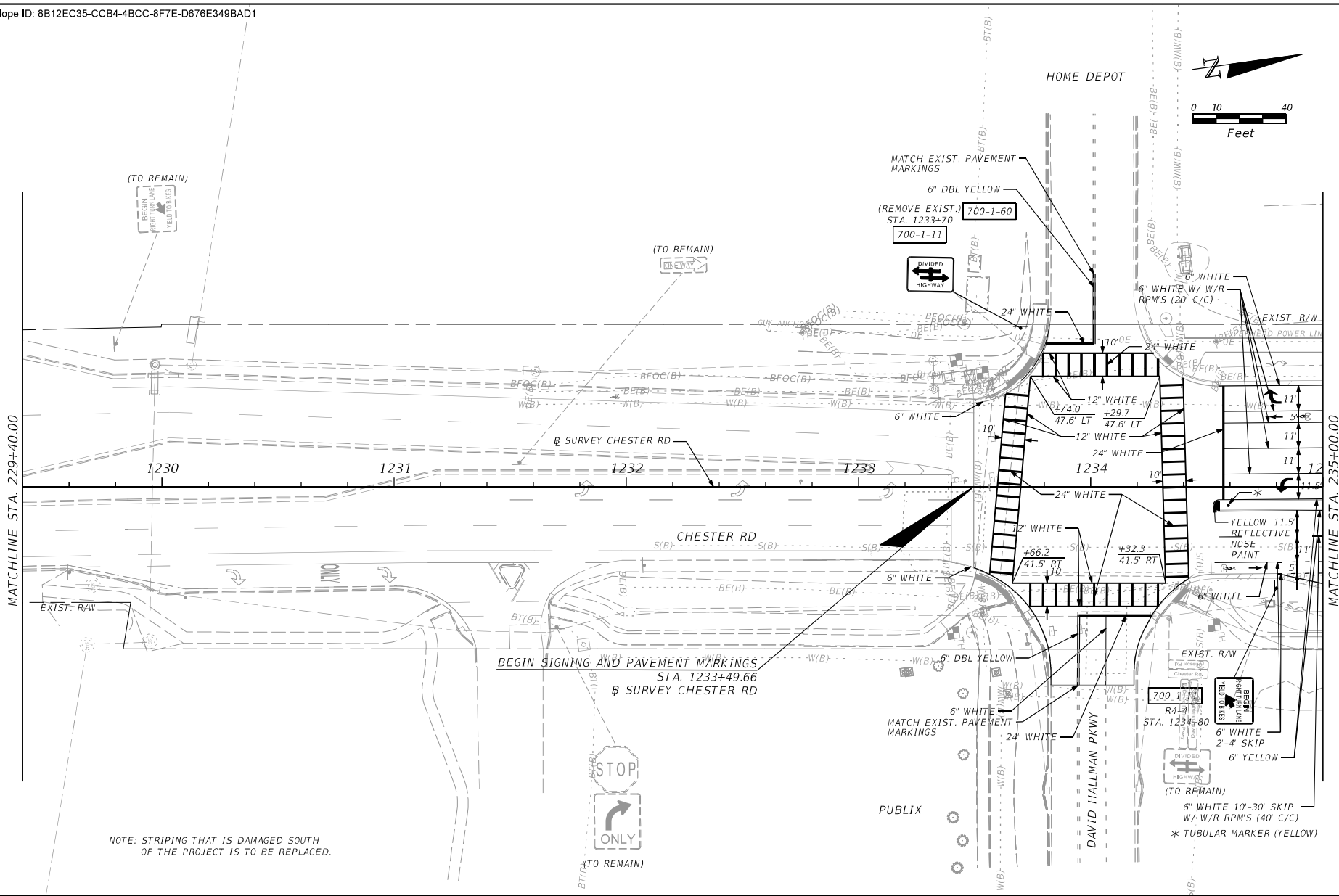
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

TABULATION OF QUANTITIES

SHEET NO. 193

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1



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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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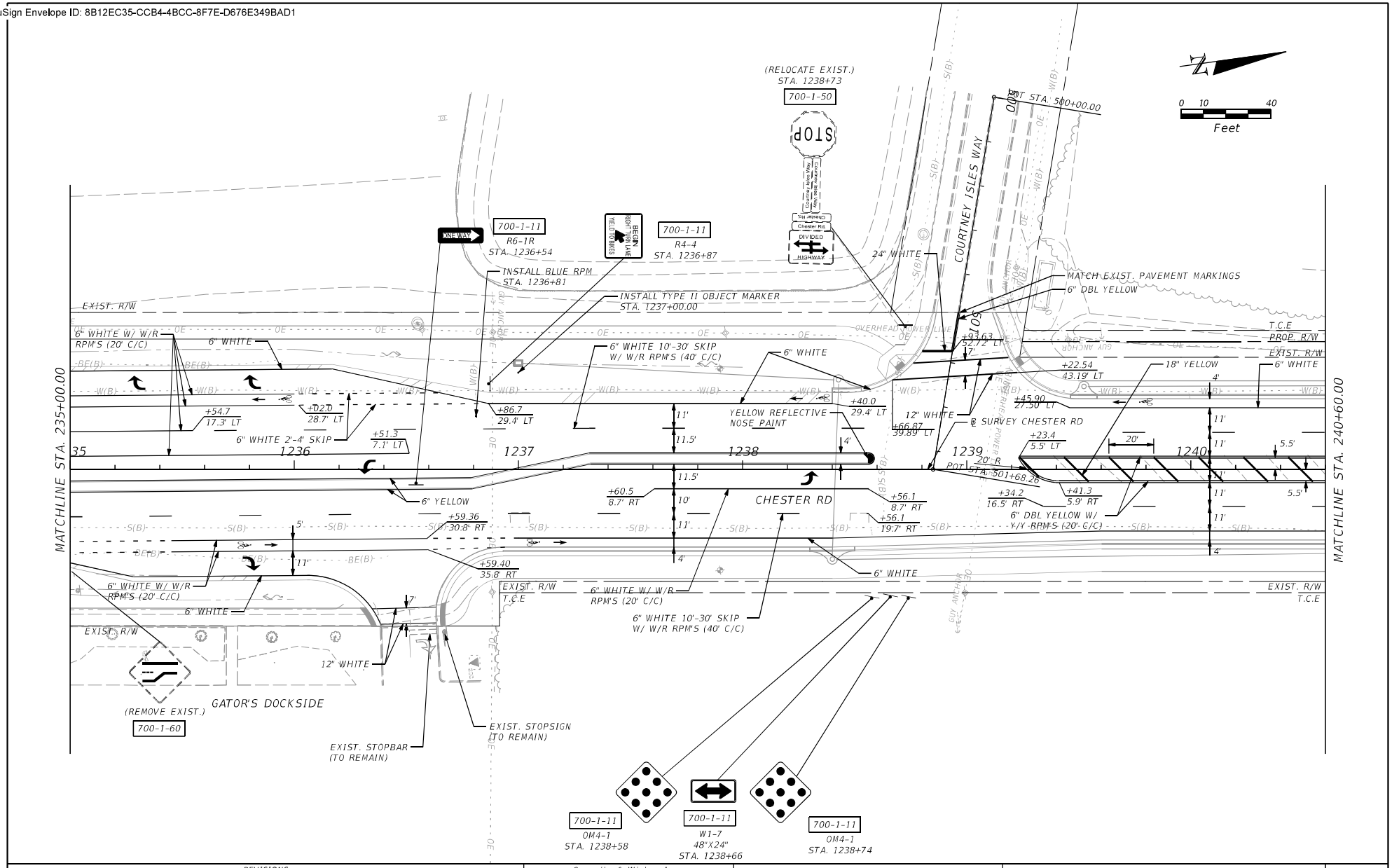

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10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
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FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

SIGNING & PAVEMENT MARKING PLAN (2)

SHEET NO. 195

Danny 12/14/2023 8:18:04 AM J:\Transportation\Projects\17-01-0202_ChesterInt\signing\PLANSP03.DGN

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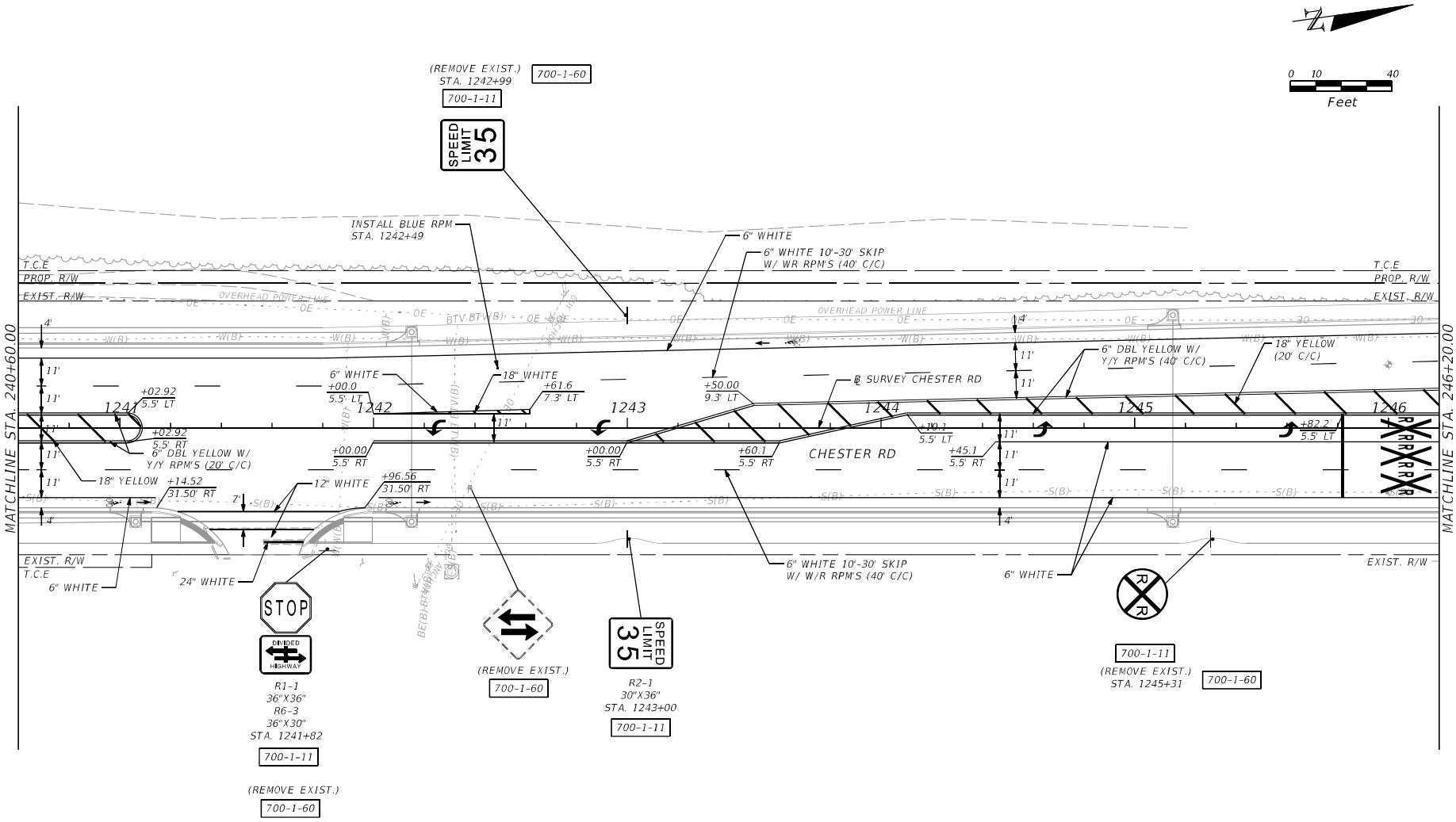

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Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
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FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

SIGNING & PAVEMENT MARKING PLAN (3)

SHEET NO. 196

Danny 12/14/2023 8:18:05 AM J:\Transportation\Projects\17-01-0202_ChesterInt\signing\PLANSP04.DGN

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0 10 40
Feet

MATCHLINE STA. 246+20.00

MATCHLINE STA. 247+80.00

MATCHLINE STA. 187+40.00

RAILWAY TRACKS

℄ SURVEY PAGES DAIRY RD

6" WHITE W/ W/R RPM'S (20' C/C)

R8-8 24"X30" STA. 1248+67

700-1-60 (REMOVE EXIST.)

700-1-11 DO NOT STOP ON TRACKS

NO TRESPASSING SIGN (SEE ES-1010.0)

FCRD R/W

PAGES DAIRY RD

6" DBL YELLOW W/ Y/Y RPM'S (40' C/C)

6" WHITE

24" WHITE

PROP. R/W

EXIST. R/W

T.C.E

6" DBL YELLOW W/ Y/Y RPM'S (30' C/C)

6" WHITE W/ W/R RPM'S (20' C/C)

6" WHITE 10'-30' SKIP W/ W/R RPM'S (40' C/C)

18" YELLOW (20' C/C)

6" YELLOW

12" WHITE

YELLOW ISLAND NOSE

6" YELLOW 2'-4' SKIP

EQUATION: Sta 1249+37.34 BK = Sta 185+10.33 AH

℄ SURVEY CHESTER RD

CHESTER RD

MERGE

PI STA. 185+61.57

6" WHITE 10'-30' SKIP W/ W/R RPM'S (40' C/C)

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

FCRD RAILROAD

DO NOT STOP ON TRACKS

700-1-11 OM4-1 STA. 1248+98

R8-8 24"X30" STA. 1247+72

700-1-11 W1-7 48"X24" STA. 1249+07

700-1-11 OM4-1 STA. 1249+16

700-1-11 OM4-1 STA. 1249+25

(REMOVE EXIST.) 700-1-60

900 FT

RIGHT LANE ENDS

W9-1R 36"X36" W16-2P 24"X18" STA. 186+00 700-1-11

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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

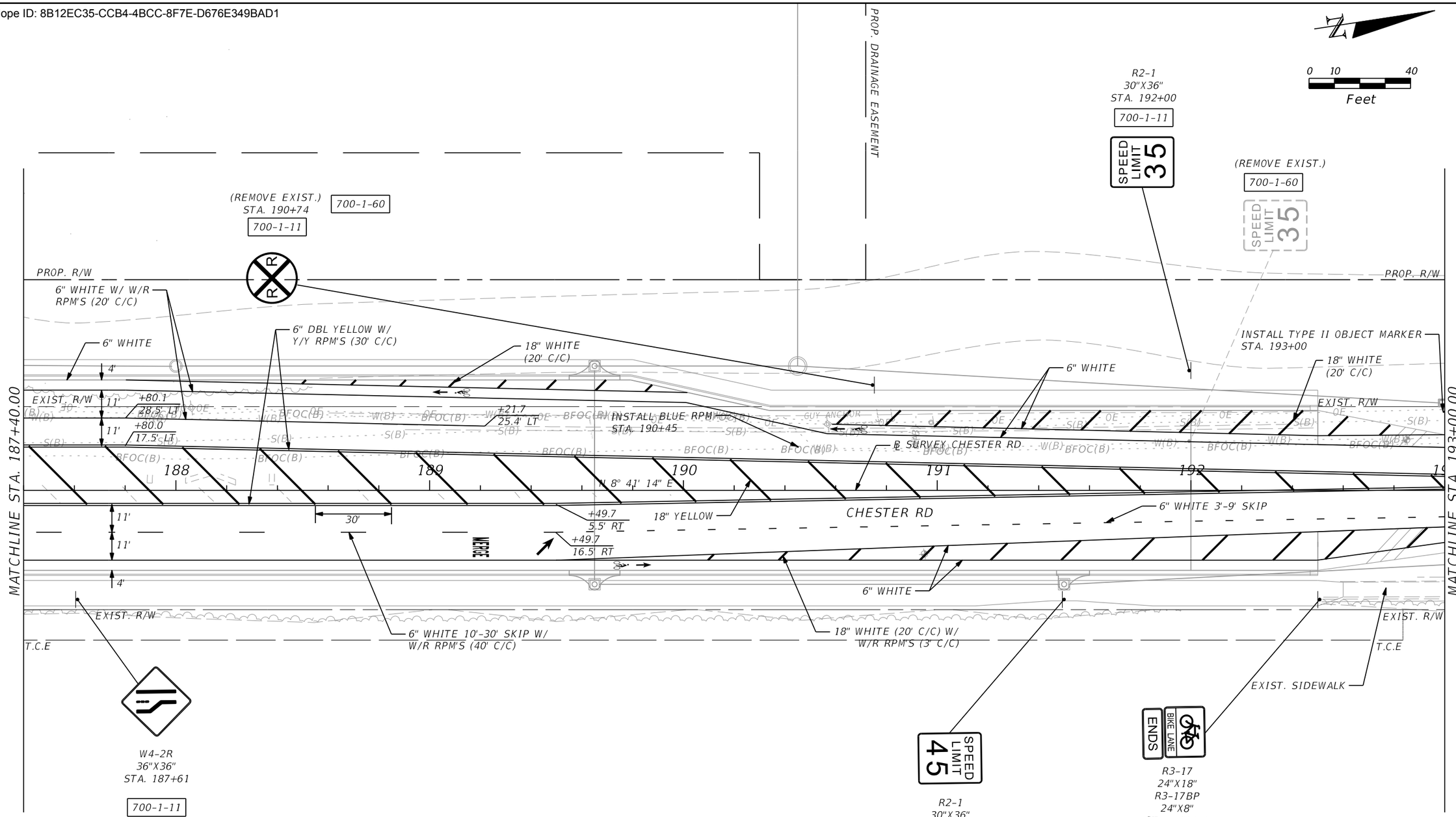
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

SIGNING & PAVEMENT MARKING PLAN (4)

SHEET NO. 197

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1



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Jacksonville, FL 32246
Certification of Authorization No. 3650

Engineer of Record:
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FL P.E. No. 73903

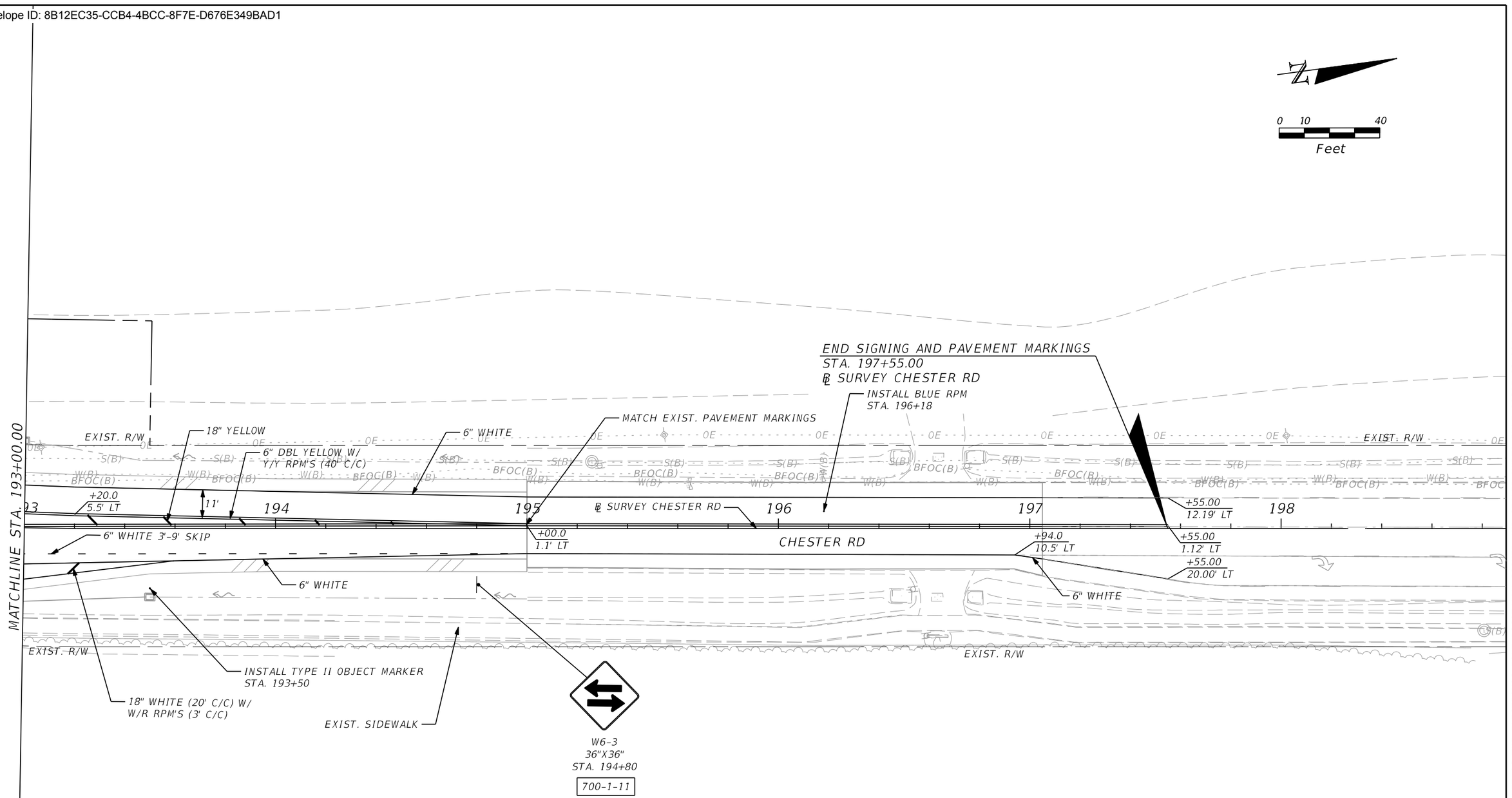
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

SIGNING & PAVEMENT MARKING PLAN (5)

SHEET NO. 198

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1



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Engineer of Record:
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FL P.E. No. 73903

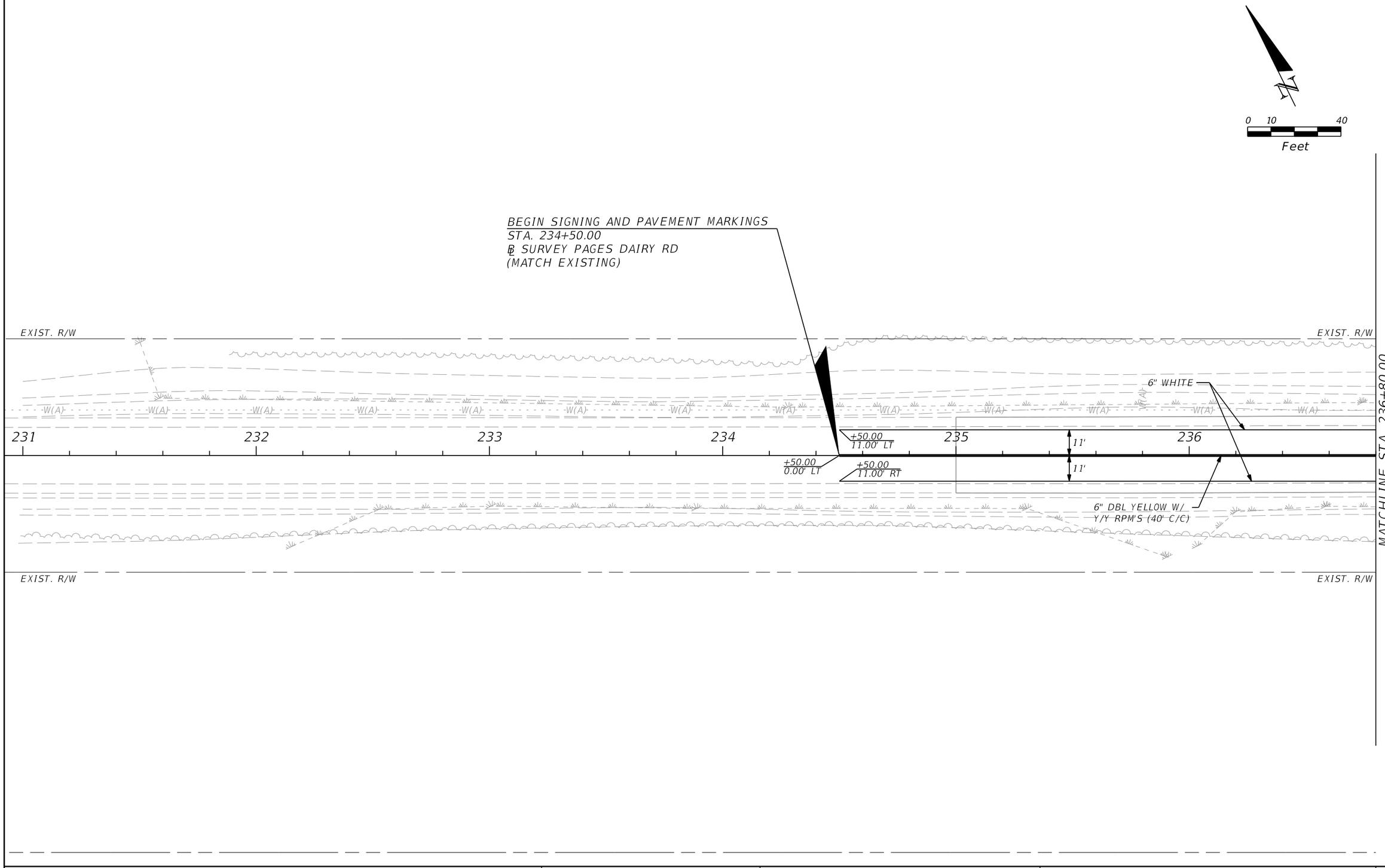
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

SIGNING & PAVEMENT MARKING PLAN (6)

SHEET NO. 199

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1



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	

SIGNING & PAVEMENT MARKING PLAN (7)

SHEET NO. 200

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PROP. DRAINAGE EASEMENT

N

0 10 40
Feet

MATCHLINE STA. 236+80.00

EXIST. R/W

℄ SURVEY PAGES DAIRY RD

6" WHITE

237 238 239 240 241 242

11'
11'

S 63° 45' 54" E

30'

+96.4
0.0' LT

PAGES DAIRY RD

6" DBL YELLOW W/
Y/Y RPM'S (30' C/C)

+96.93
15.41' RT

6" DBL YELLOW W/
Y/Y RPM'S (40' C/C)

INSTALL TYPE II OBJECT MARKER
STA. 241+00.00

18" YELLOW

6" WHITE

EXIST. R/W

MATCHLINE STA. 242+20.00

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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	

SIGNING & PAVEMENT MARKING PLAN (8)

SHEET NO. 201

Danny 12/14/2023 8:18:09 AM J:\Transportation\Projects\17-01-0202_ChesterInt\signing\PLANSP09.DGN

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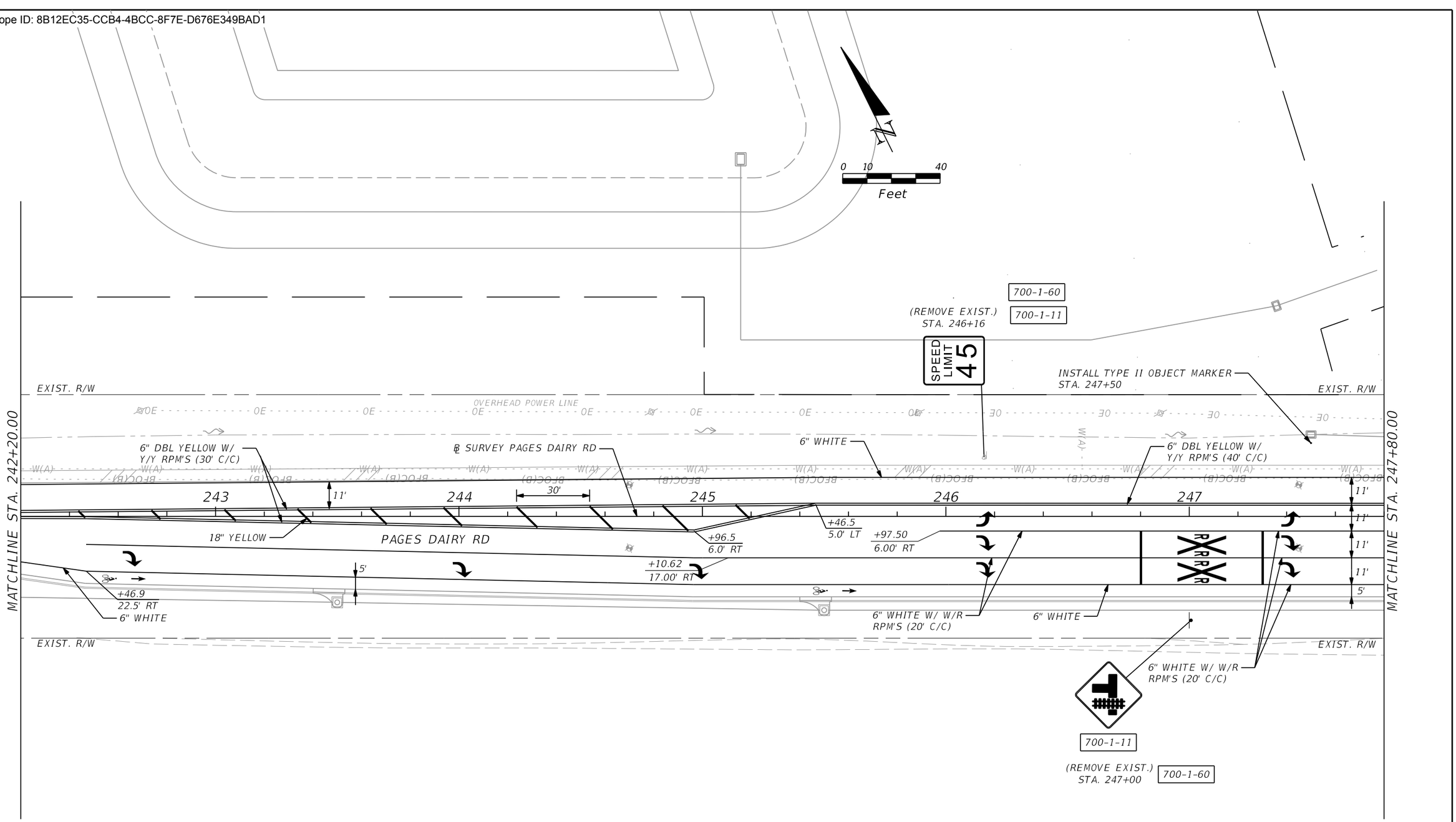

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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	

SIGNING & PAVEMENT MARKING PLAN (9)

SHEET NO. 202

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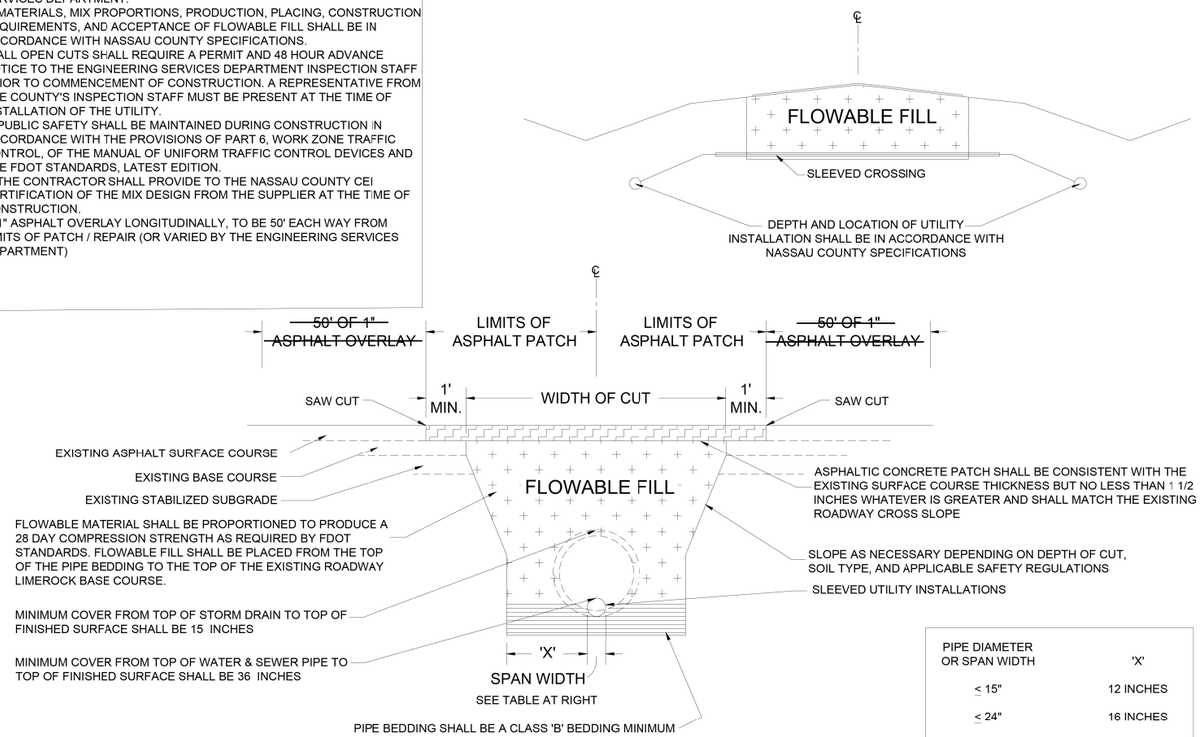
NOTES:
1. OPEN ROAD CUTS ARE GENERALLY NOT AN ACCEPTABLE MEANS OF CONSTRUCTION UNLESS APPROVED IN ADVANCE BY THE ENGINEERING SERVICES DEPARTMENT.
2. MATERIALS, MIX PROPORTIONS, PRODUCTION, PLACING, CONSTRUCTION REQUIREMENTS, AND ACCEPTANCE OF FLOWABLE FILL SHALL BE IN ACCORDANCE WITH NASSAU COUNTY SPECIFICATIONS.
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			
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FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

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NASSAU COUNTY STANDARD DETAIL NO. 15

SHEET NO. 203

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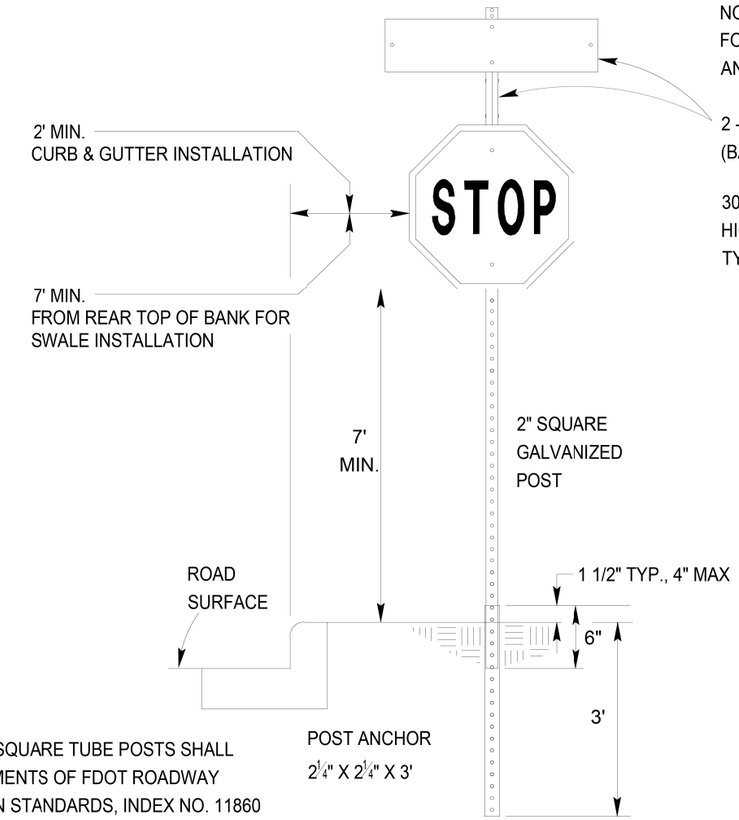
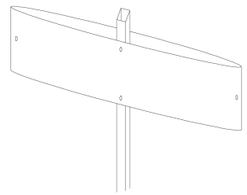


NOTE: LEAVE 2 HOLES FROM TOP OF POST FOR THE INSTALLATION OF CAPS, DEAD END AND NO OUTLET SIGN IF NEEDED.

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.

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.

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.

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			
DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
Certification of Authorization No. 3650

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

NASSAU COUNTY STANDARD DETAIL NO. 21

SHEET NO. 204

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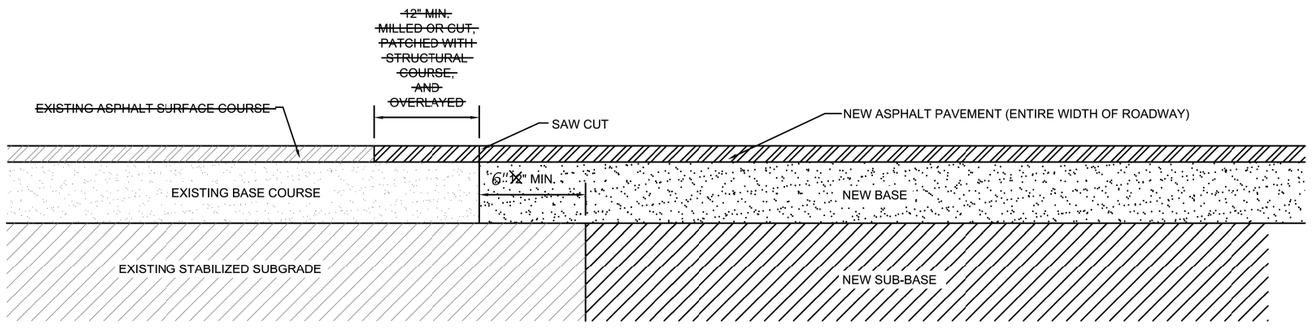

NOTES:

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

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

NASSAU COUNTY STANDARD DETAIL NO. 26

SHEET NO. 205

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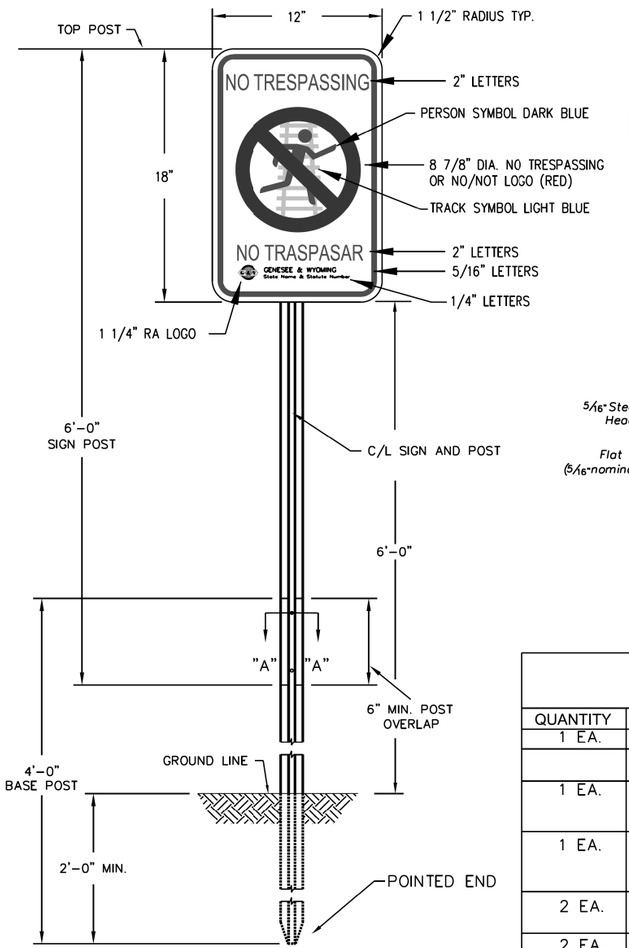
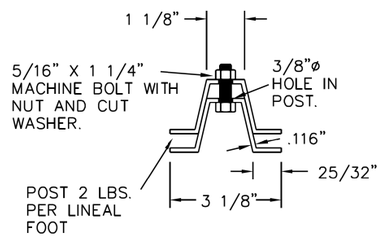
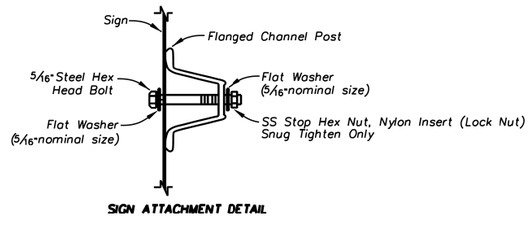
FILE
ES1010.0
REVISIONS
09-26-2011 XRL/TJF
07-03-2013 XRL/GRC

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: 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

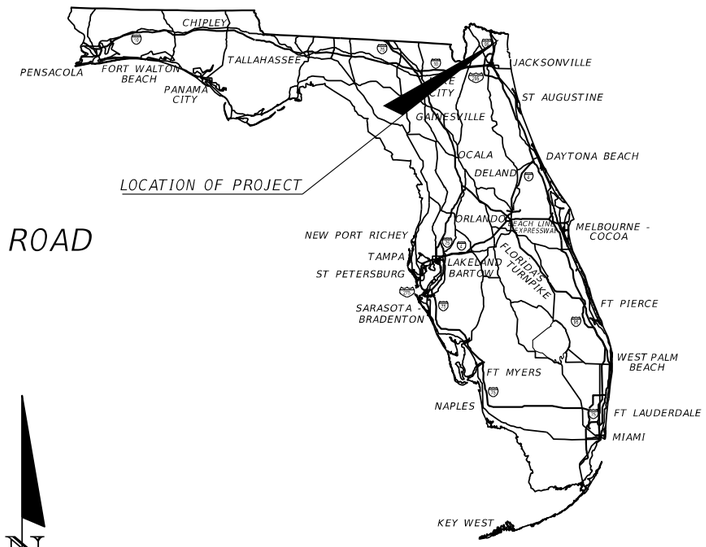
CONTRACT PLANS

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

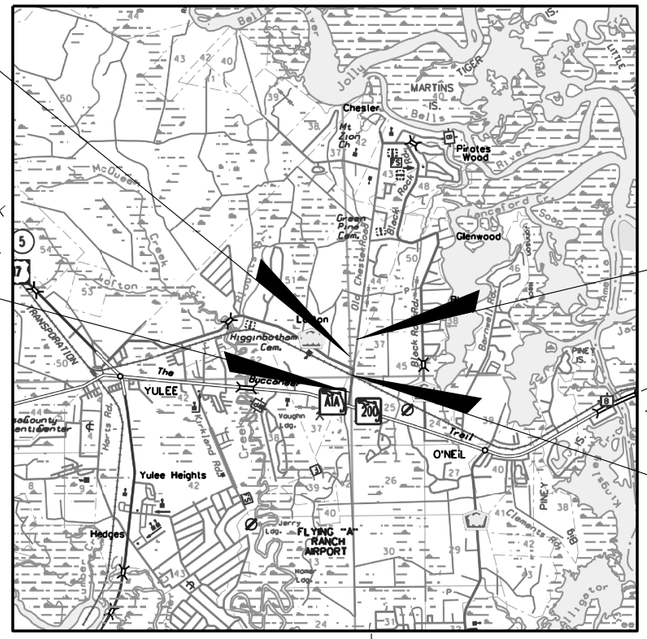
CHESTER ROAD
FROM DAVID HALLMAN PARKWAY TO NORTH OF PAGES DAIRY ROAD

JEA UTILITY PLANS



R-27-E / R-28-E

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

TO JACKSONVILLE

R-27-E / R-28-E

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

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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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,,U,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

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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

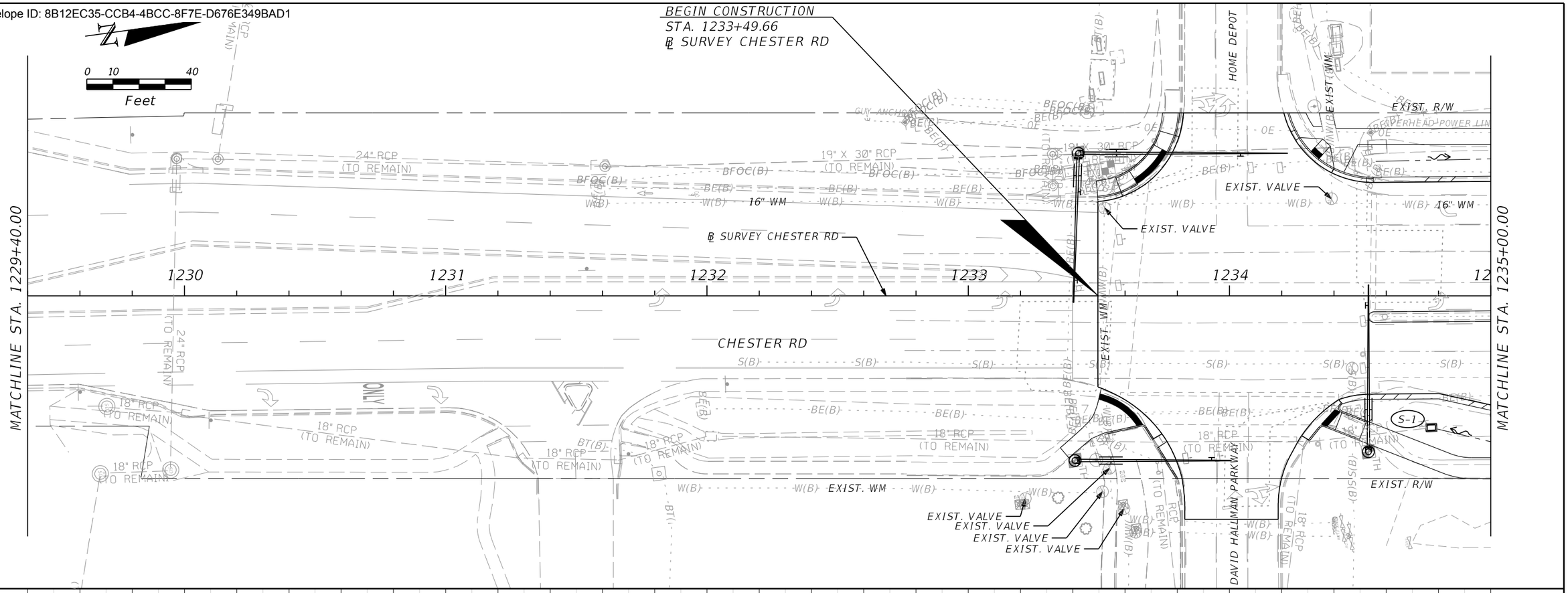
NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

GENERAL NOTES

SHEET NO. U-2

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1



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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

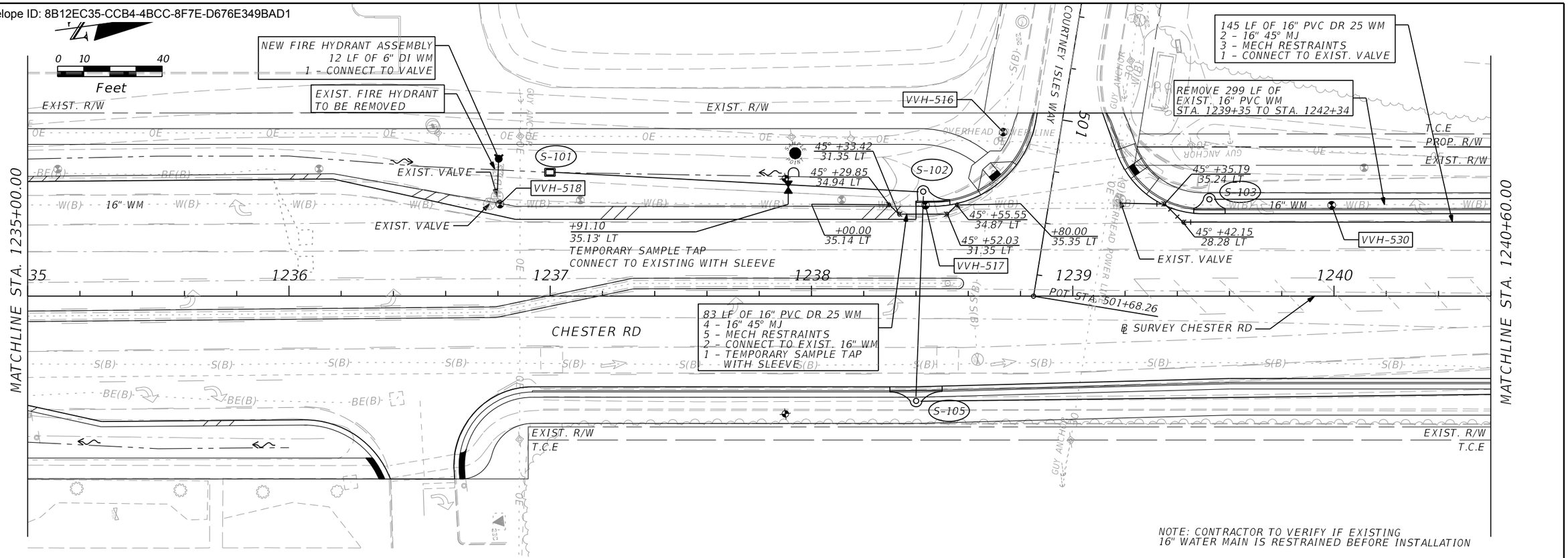
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

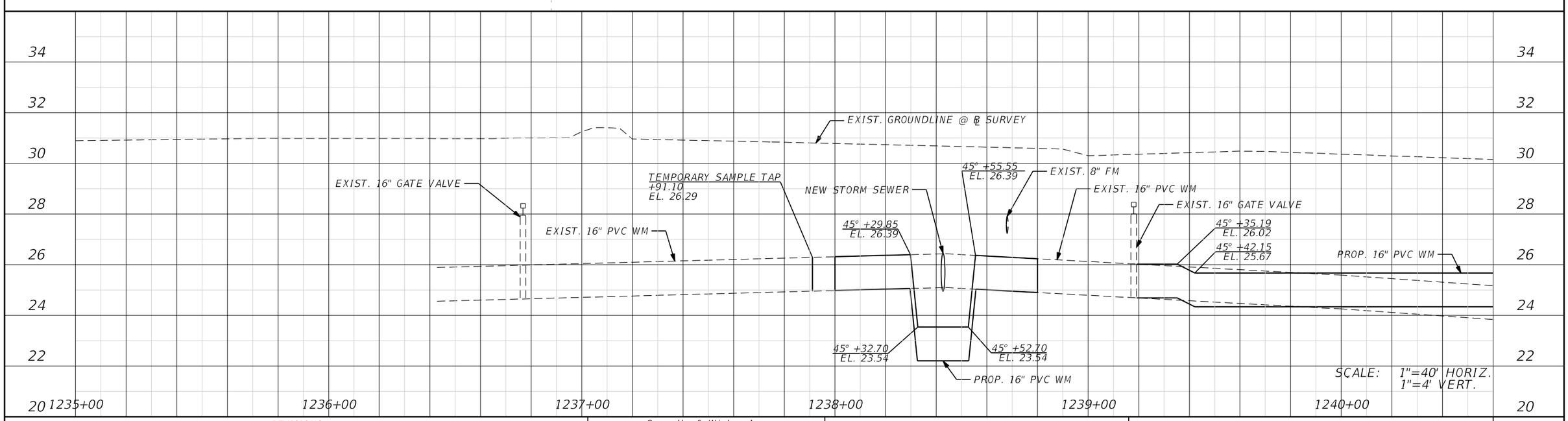
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

WATER MAIN PLAN & PROFILE

SHEET NO. W-1

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1





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DATE	DESCRIPTION	DATE	DESCRIPTION

Connelly & Wicker Inc.
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Jacksonville, FL 32246
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Engineer of Record:
Daniel R. Waltermyer, P.E.
FL P.E. No. 73903

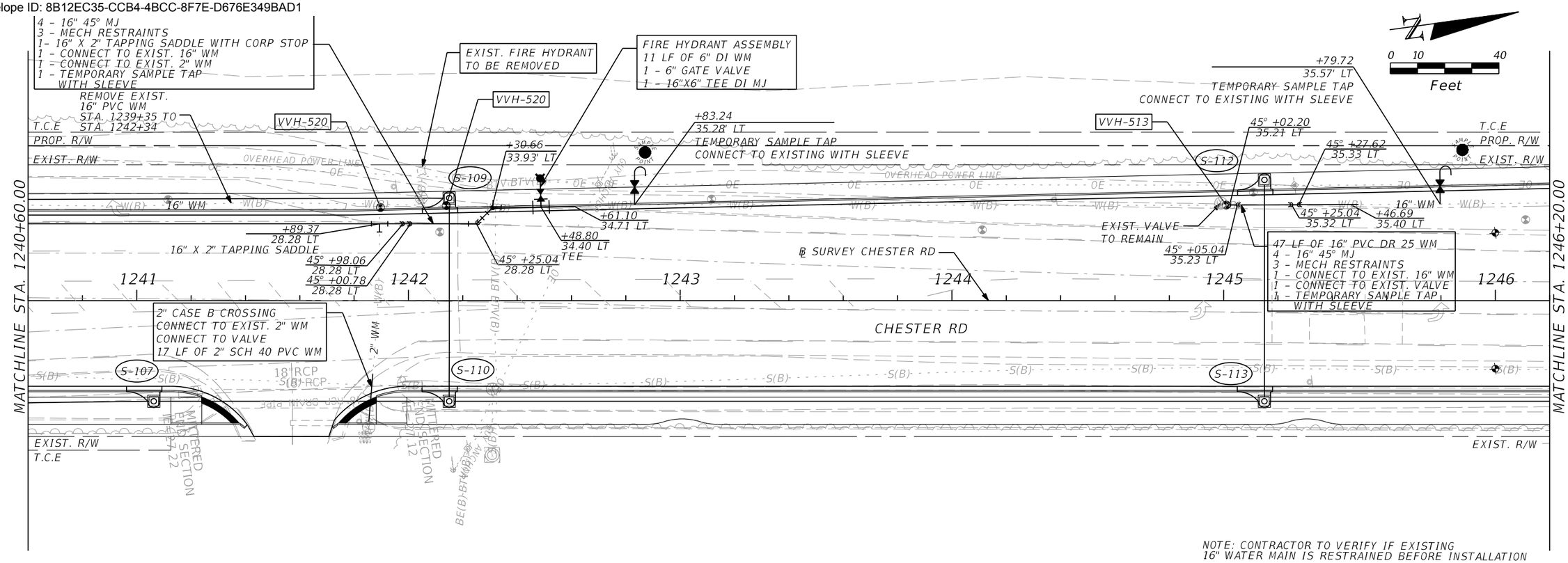
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

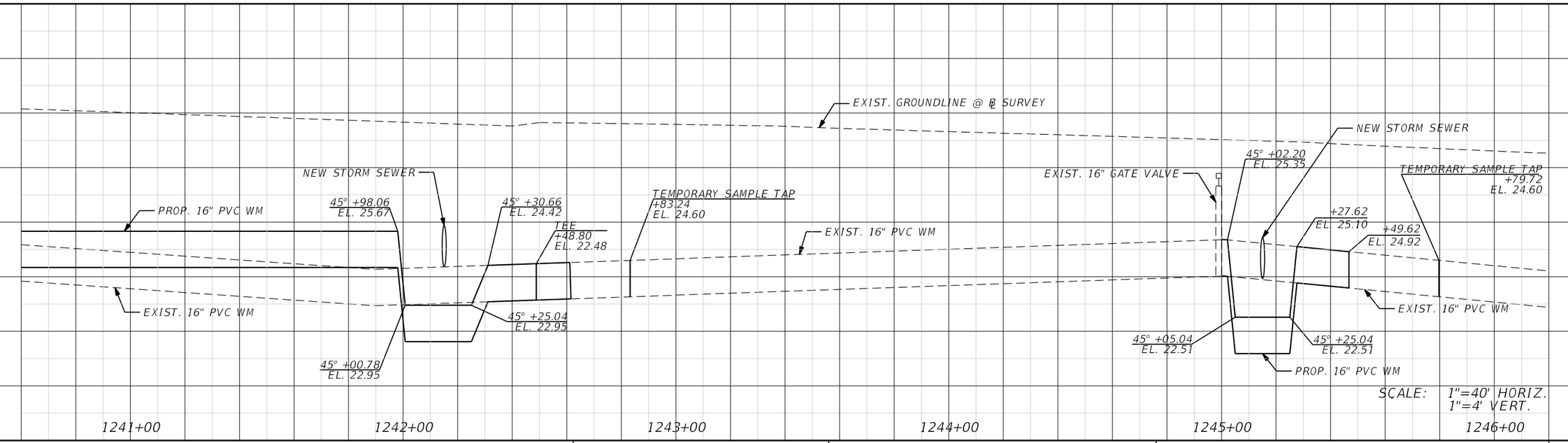
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

WATER MAIN PLAN & PROFILE

SHEET NO. W-2

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1





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:
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FL P.E. No. 73903

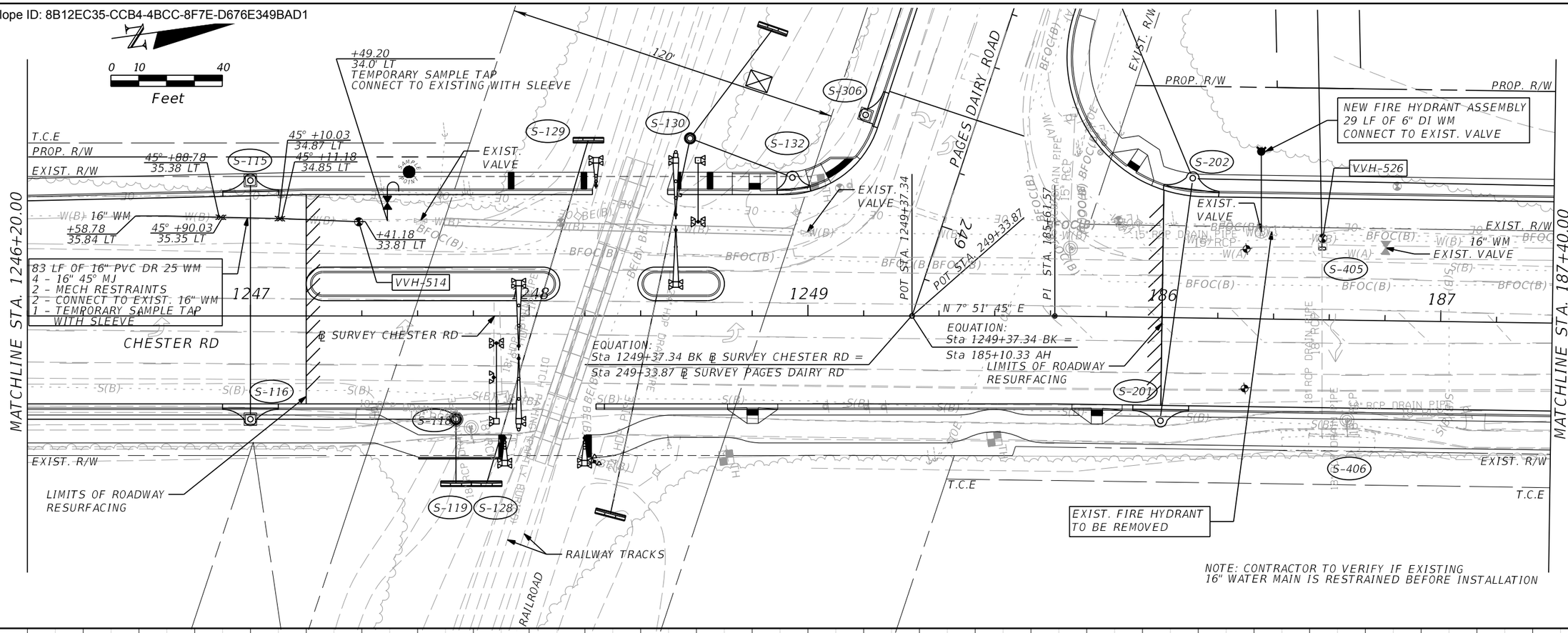
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

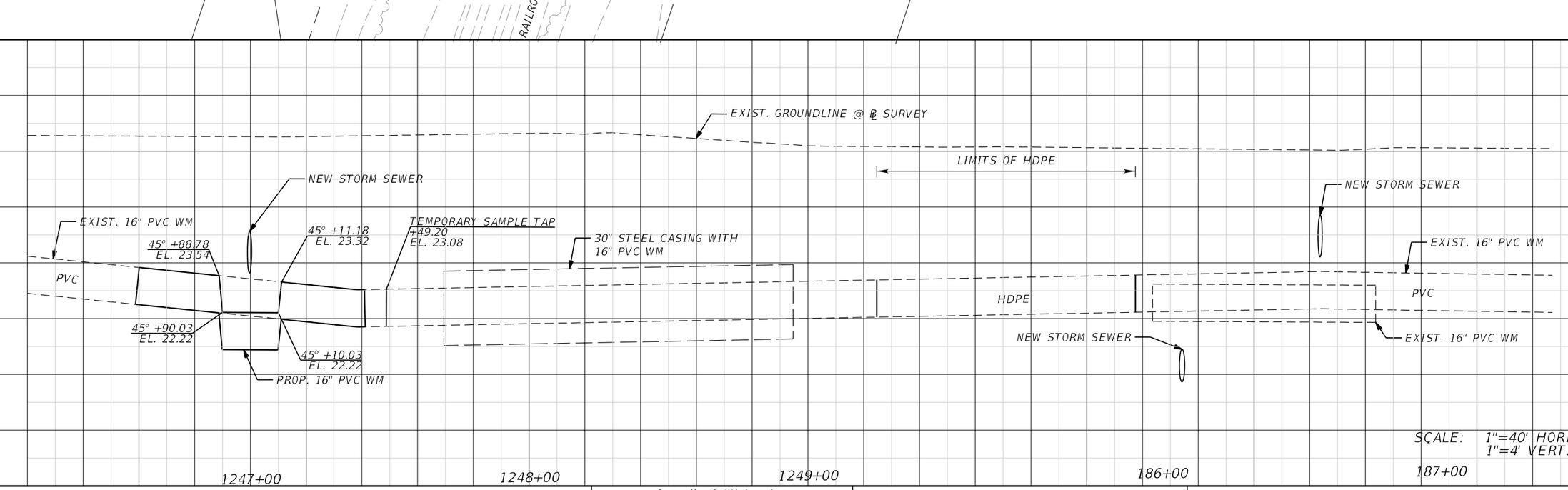
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

WATER MAIN PLAN & PROFILE

SHEET NO. W-3

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1





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WATER MAIN PLAN & PROFILE

SHEET NO. W-4

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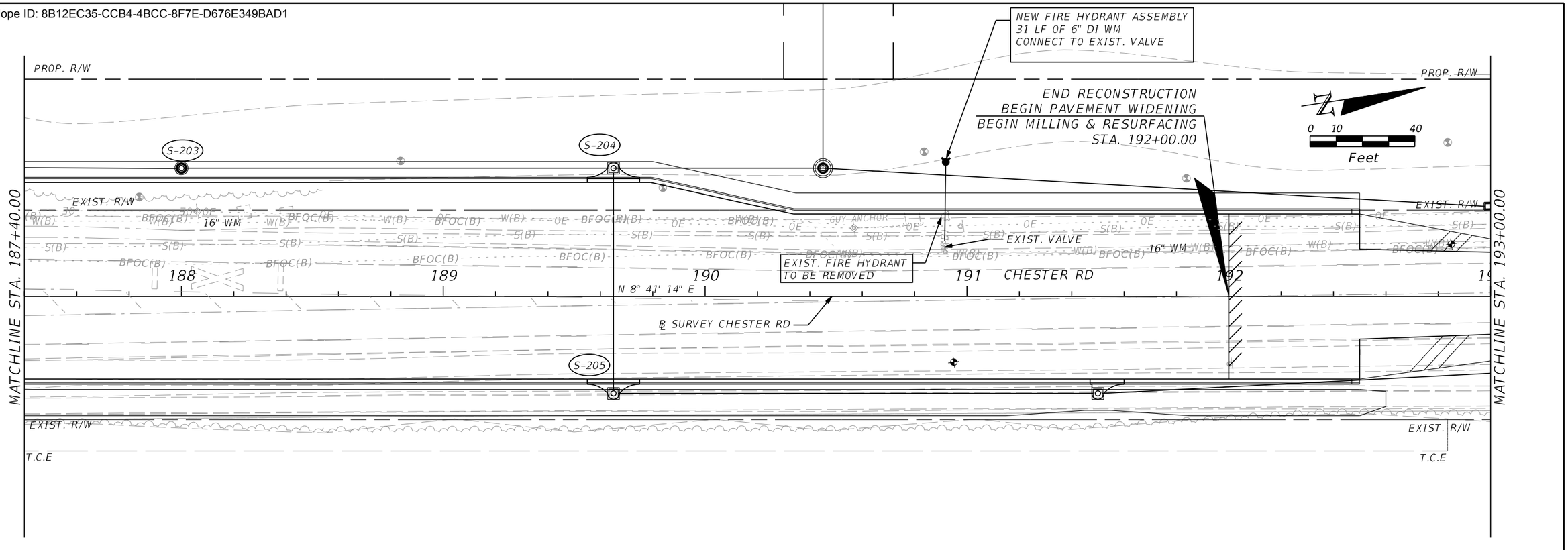

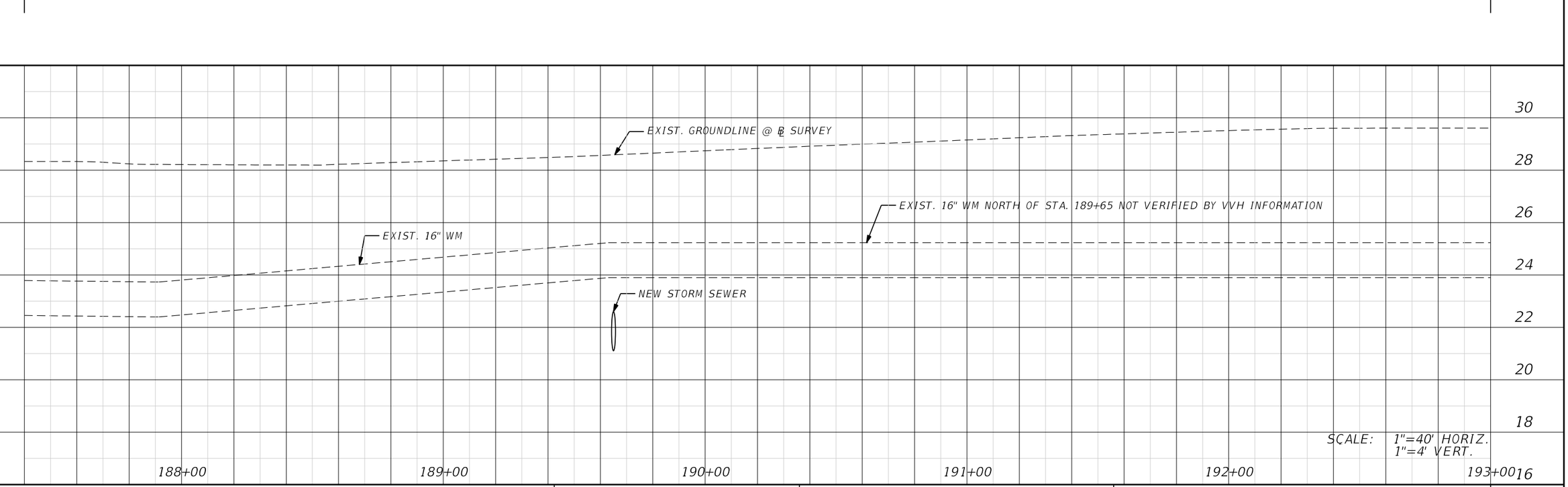

SCALE: 1"=40' HORIZ.
1"=4' VERT.

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
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STATE OF FLORIDA
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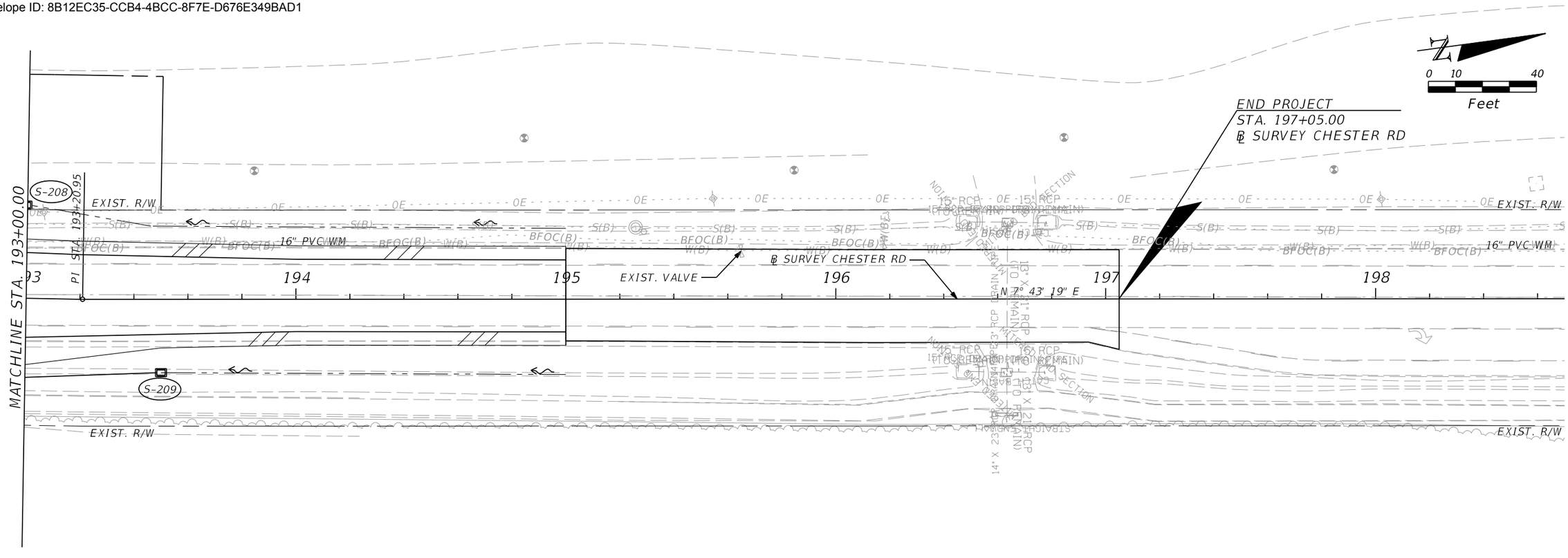
WATER MAIN PLAN & PROFILE

SHEET NO. W-5

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1



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1"=4' VERT.

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Connelly & Wicker Inc.
10060 Skinner Lake Dr., Suite 500
Jacksonville, FL 32246
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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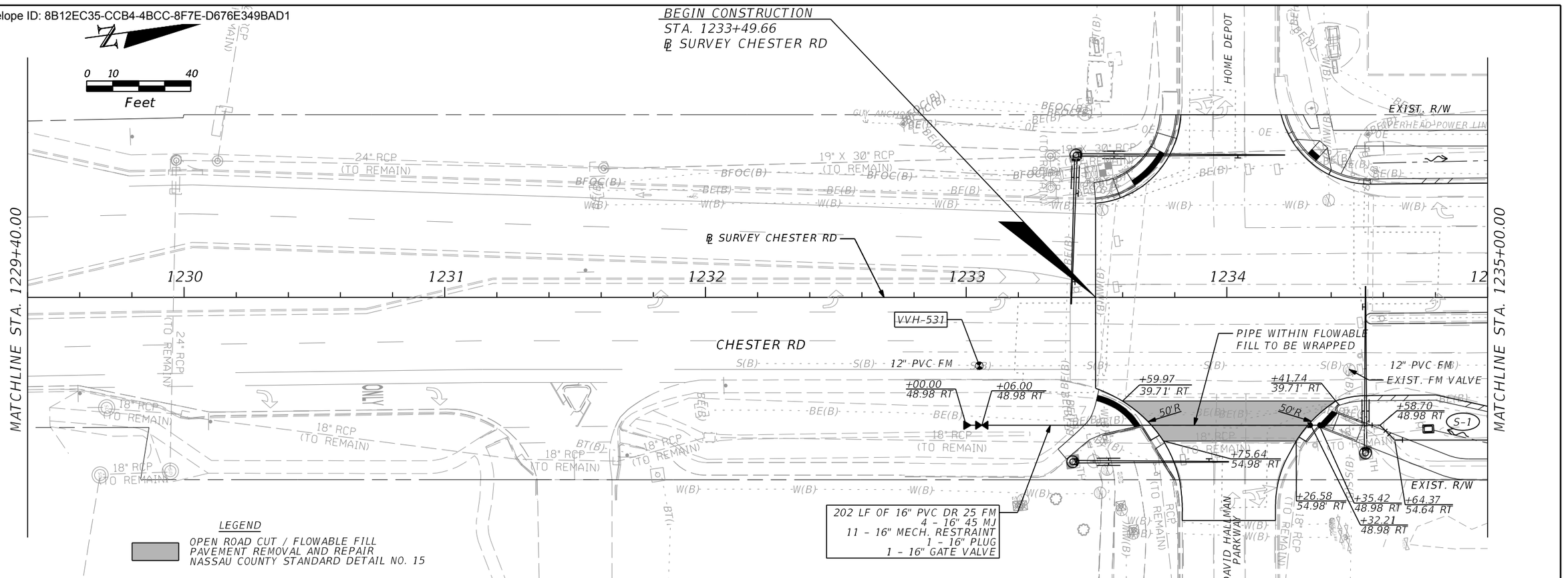
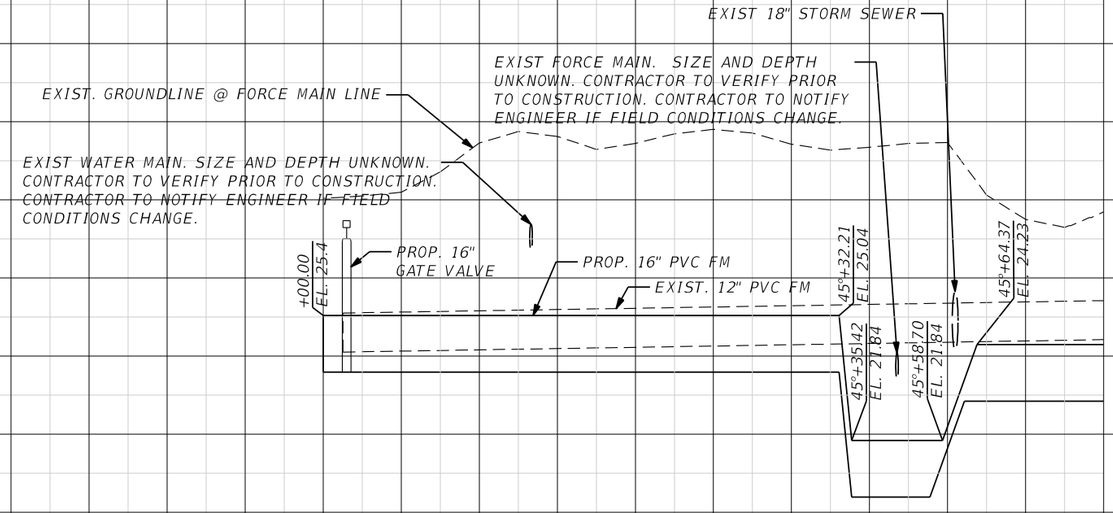
WATER MAIN PLAN & PROFILE

SHEET NO. W-6

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1





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1"=4' VERT.

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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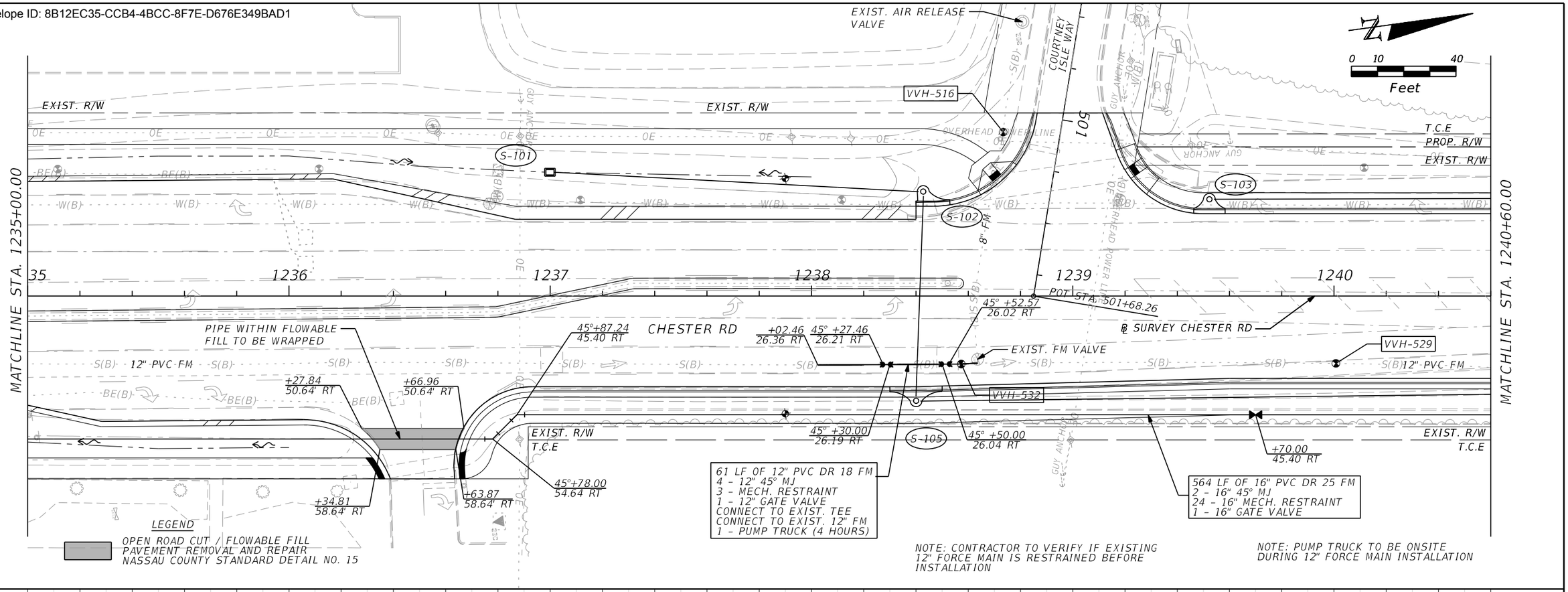
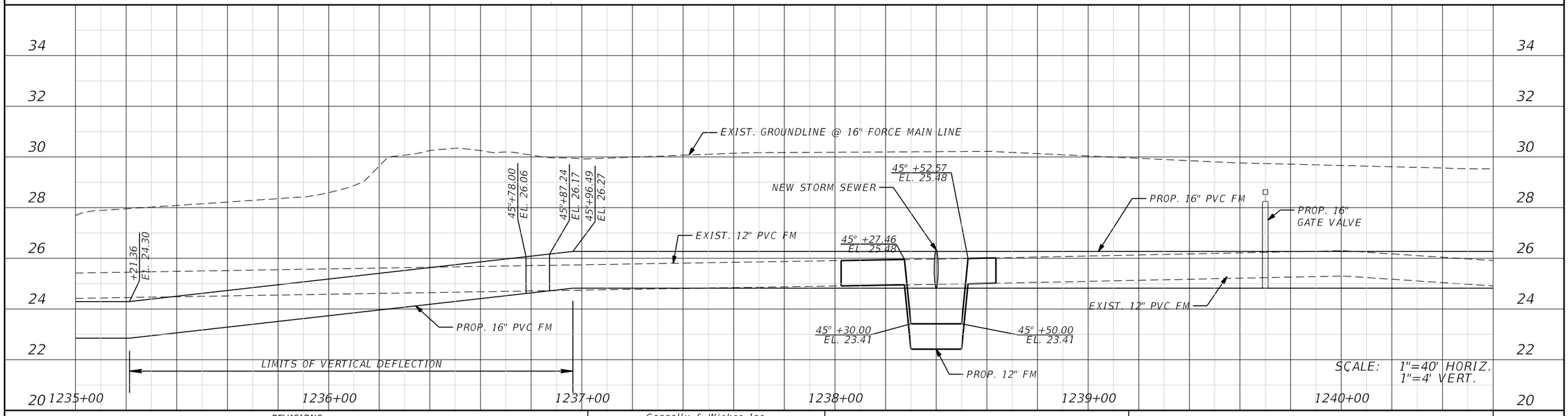
FORCE MAIN PLAN & PROFILE

SHEET NO. S-1

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1





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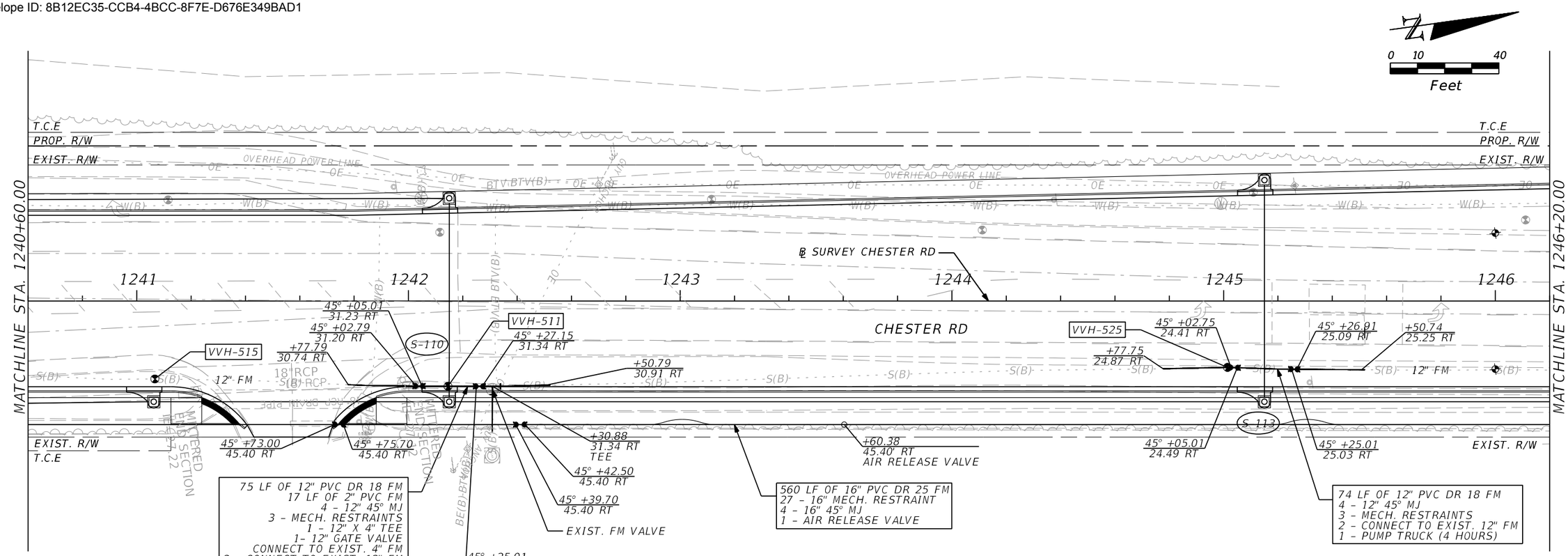
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

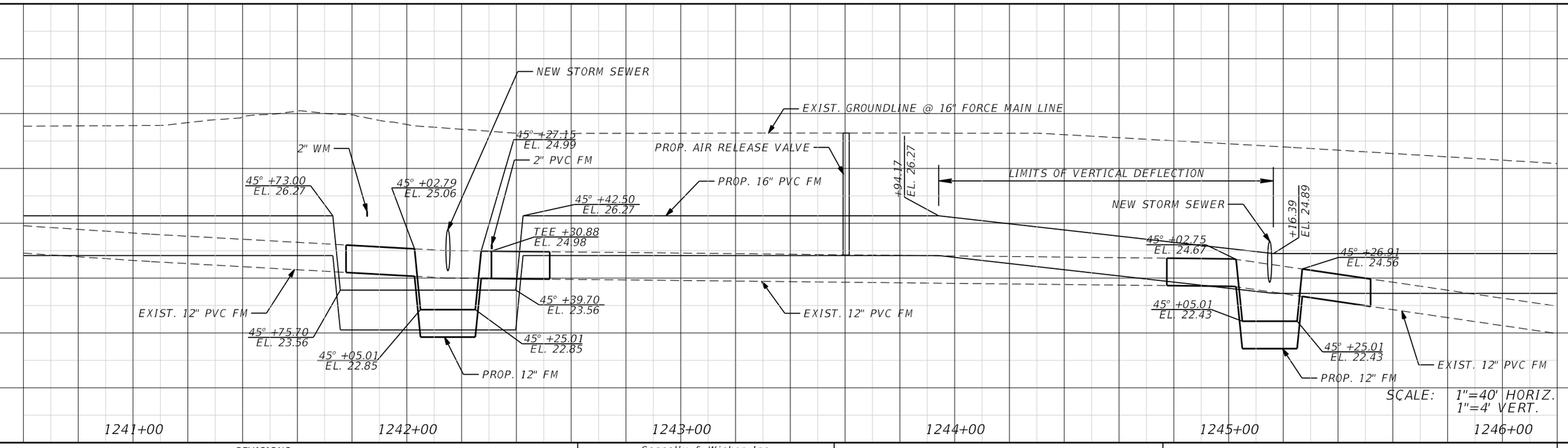
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

FORCE MAIN PLAN & PROFILE

SHEET NO. S-2

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1





SCALE: 1"=40' HORIZ.
1"=4' VERT.

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STATE OF FLORIDA
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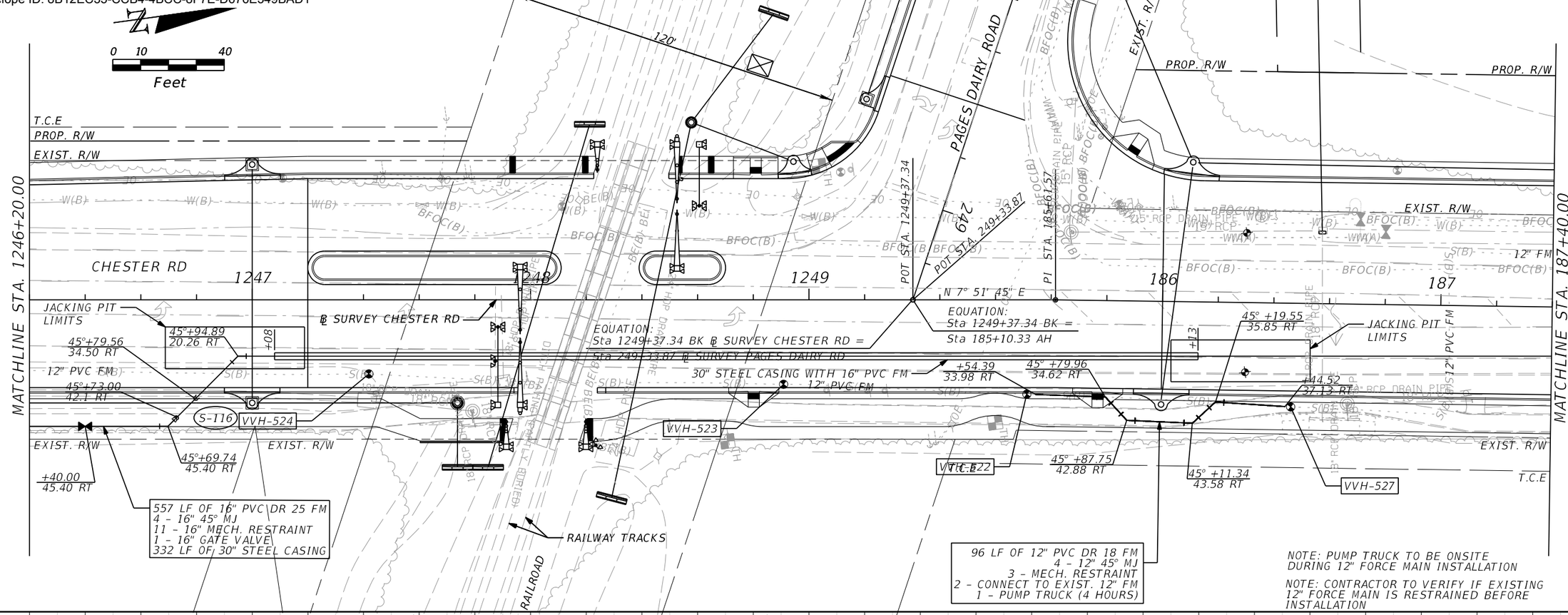
FORCE MAIN PLAN & PROFILE

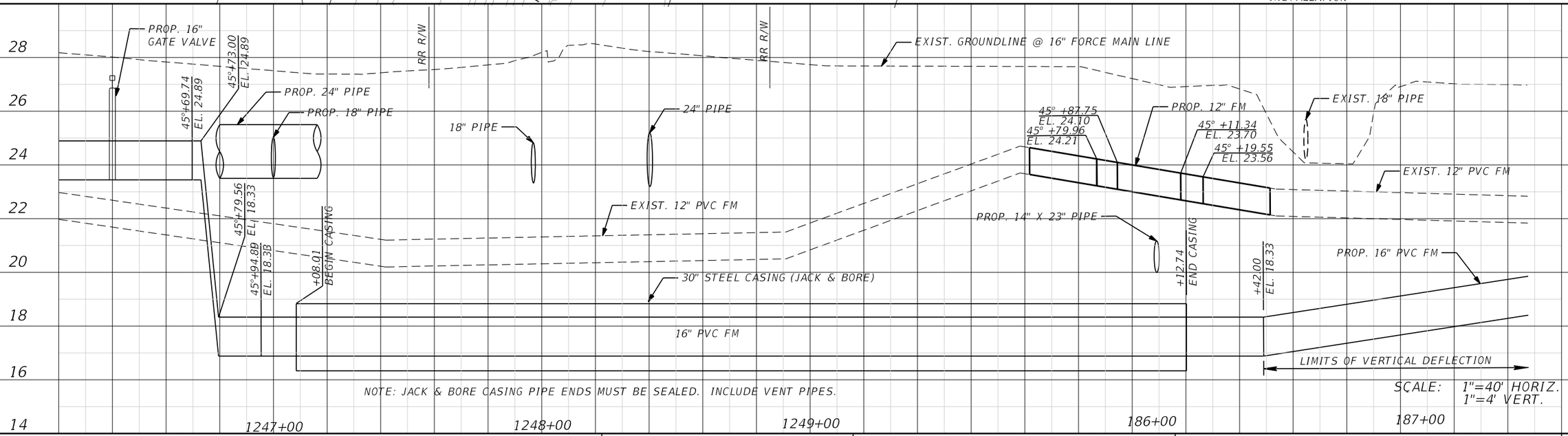
SHEET NO. S-3

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1



NOTE: PUMP TRUCK TO BE ONSITE DURING 12" FORCE MAIN INSTALLATION

NOTE: CONTRACTOR TO VERIFY IF EXISTING 12" FORCE MAIN IS RESTRAINED BEFORE INSTALLATION



NOTE: JACK & BORE CASING PIPE ENDS MUST BE SEALED. INCLUDE VENT PIPES.

SCALE: 1"=40' HORIZ.
1"=4' VERT.

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STATE OF FLORIDA
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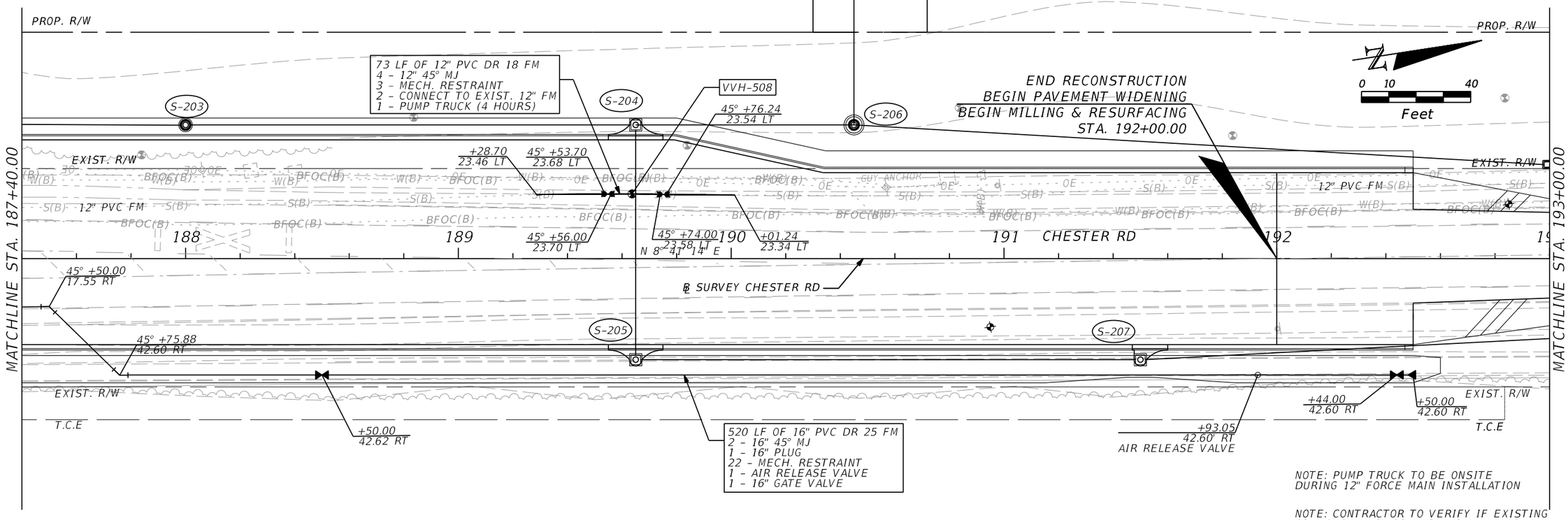
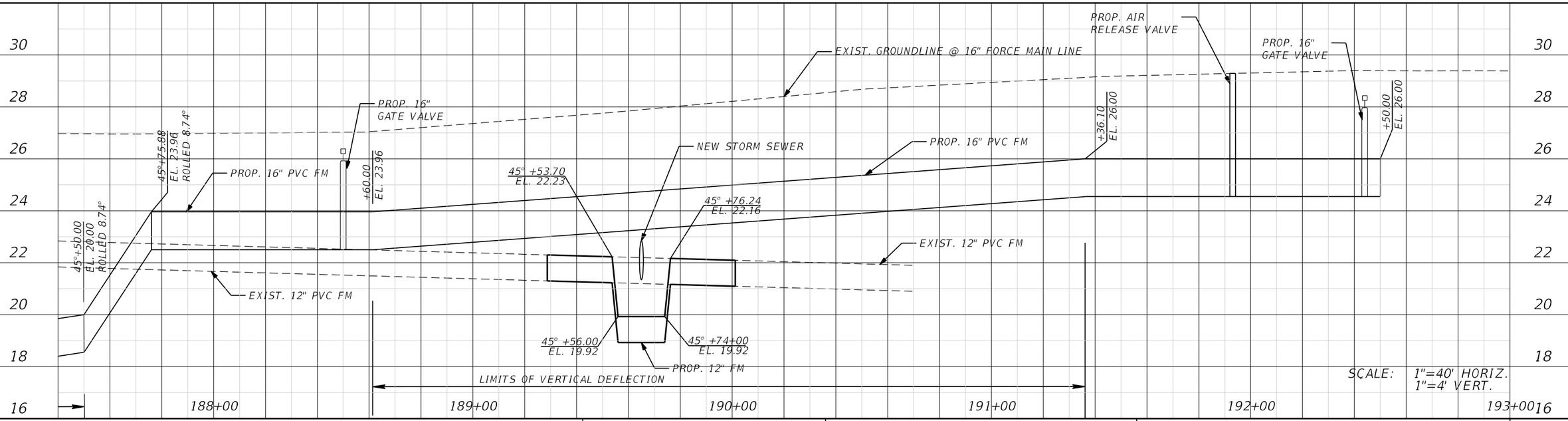
	NASSAU	

FORCE MAIN PLAN & PROFILE

SHEET NO. S-4

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1





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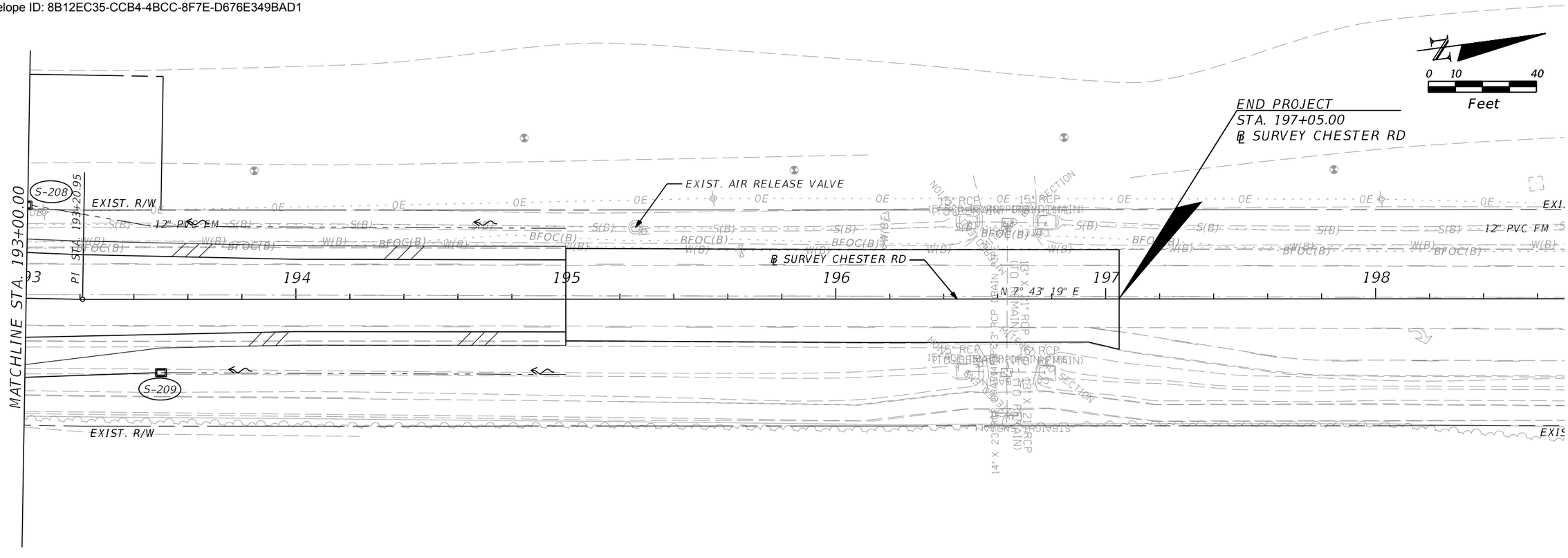
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

FORCE MAIN PLAN & PROFILE

SHEET NO. S-5

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1



NO PROPOSED FM LINES
ON THIS SHEET

SCALE: 1"=40' HORIZ.
1"=4' VERT.

194+00 195+00 196+00 197+00 198+00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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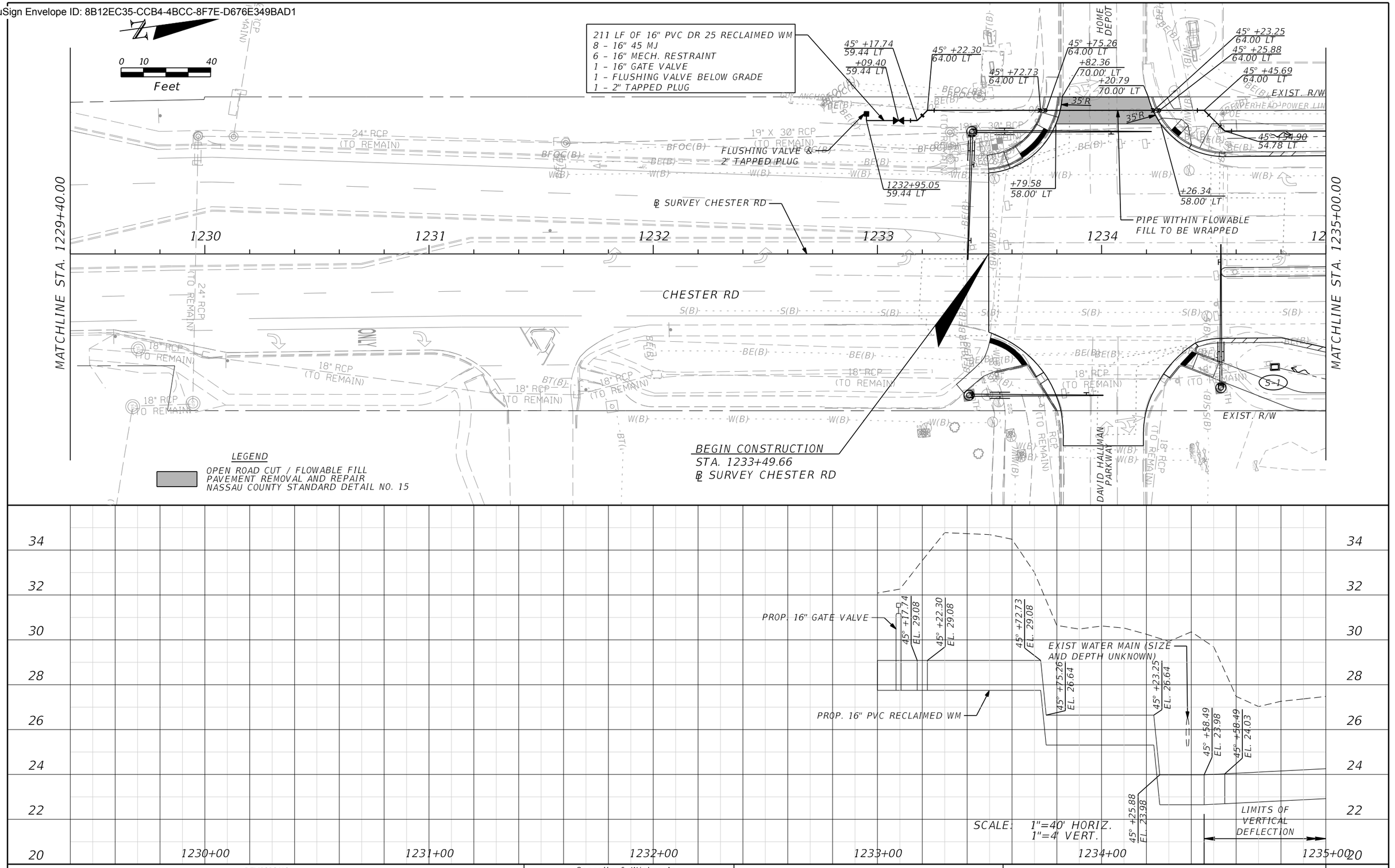
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

FORCE MAIN PLAN & PROFILE

SHEET NO. S-6

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1



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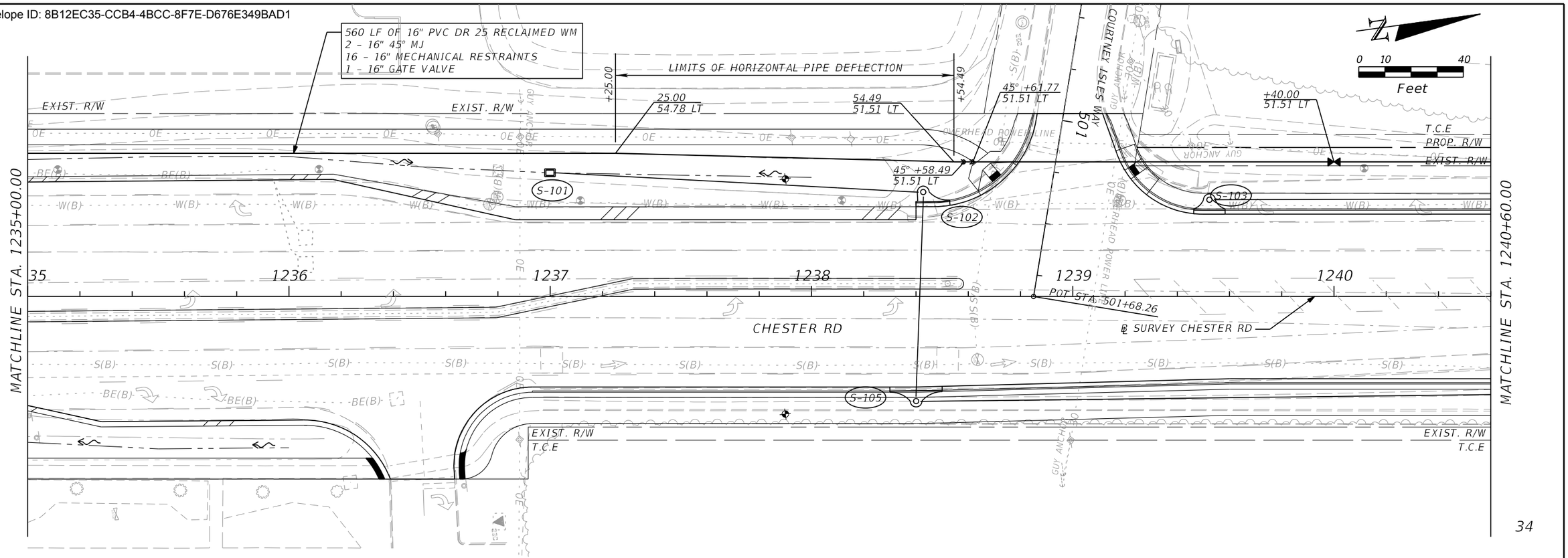
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

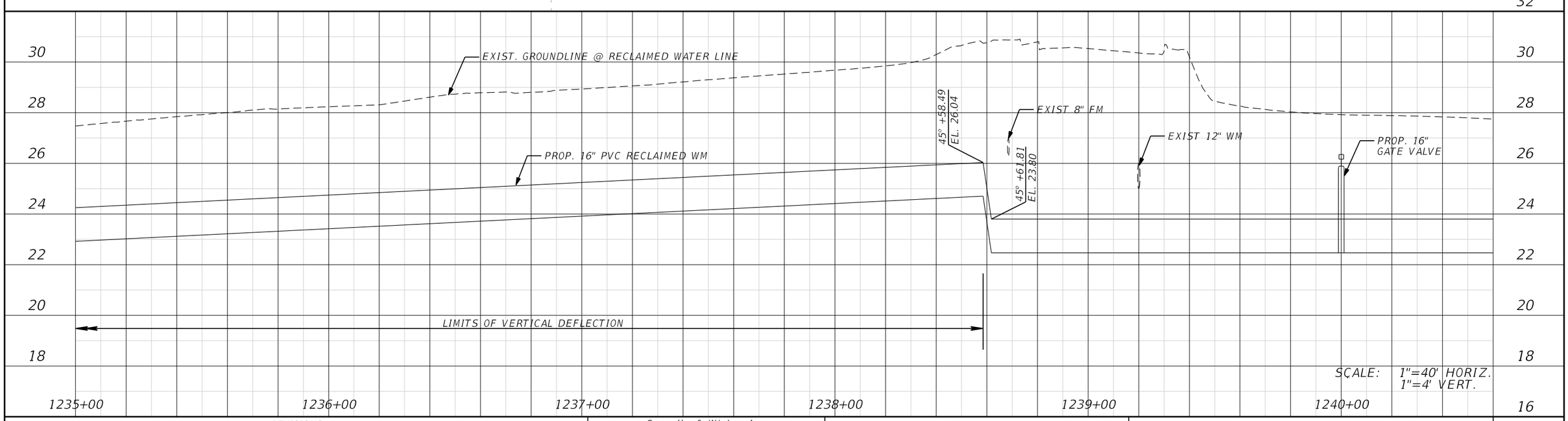
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

RECLAIMED WATER PLAN & PROFILE

SHEET NO. R-1

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1





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STATE OF FLORIDA
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RECLAIMED WATER PLAN & PROFILE

SHEET NO. R-2

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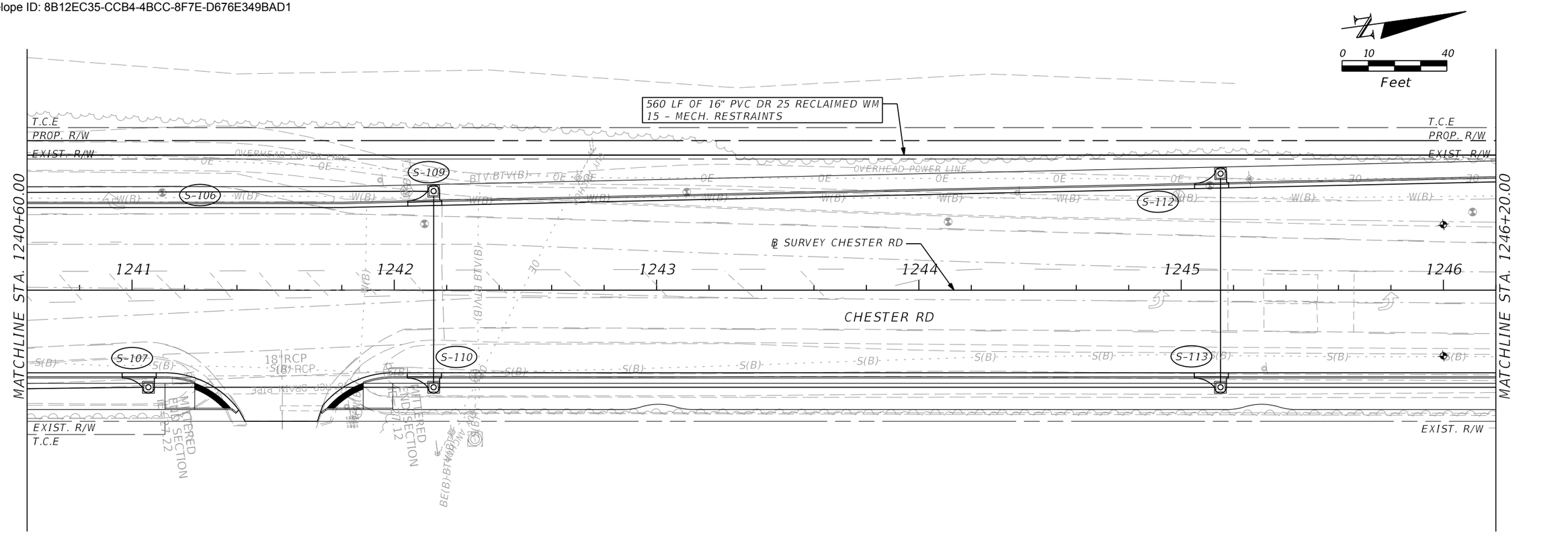

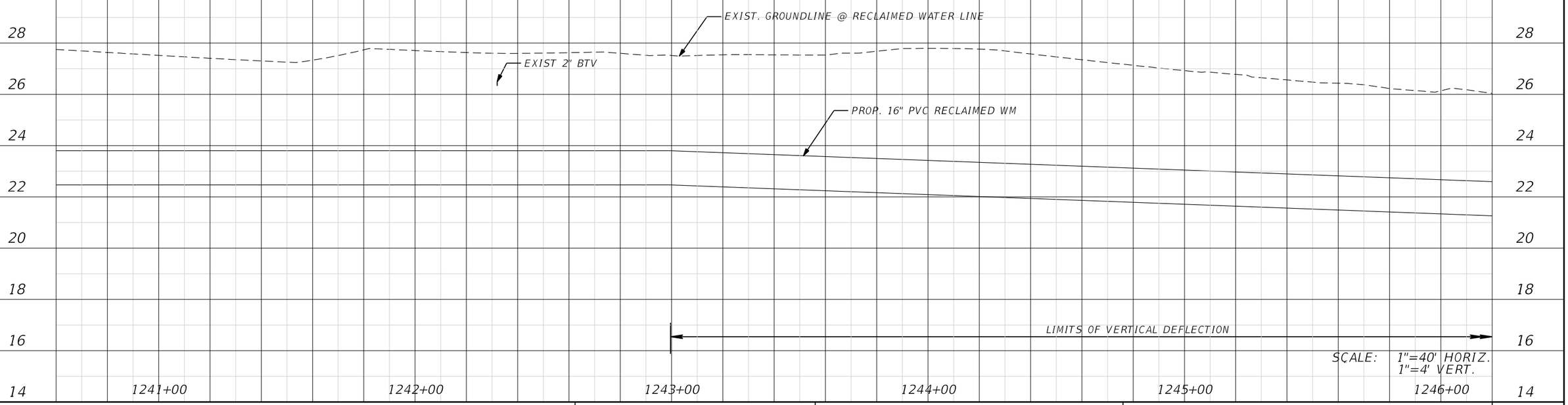

SCALE: 1"=40' HORIZ.
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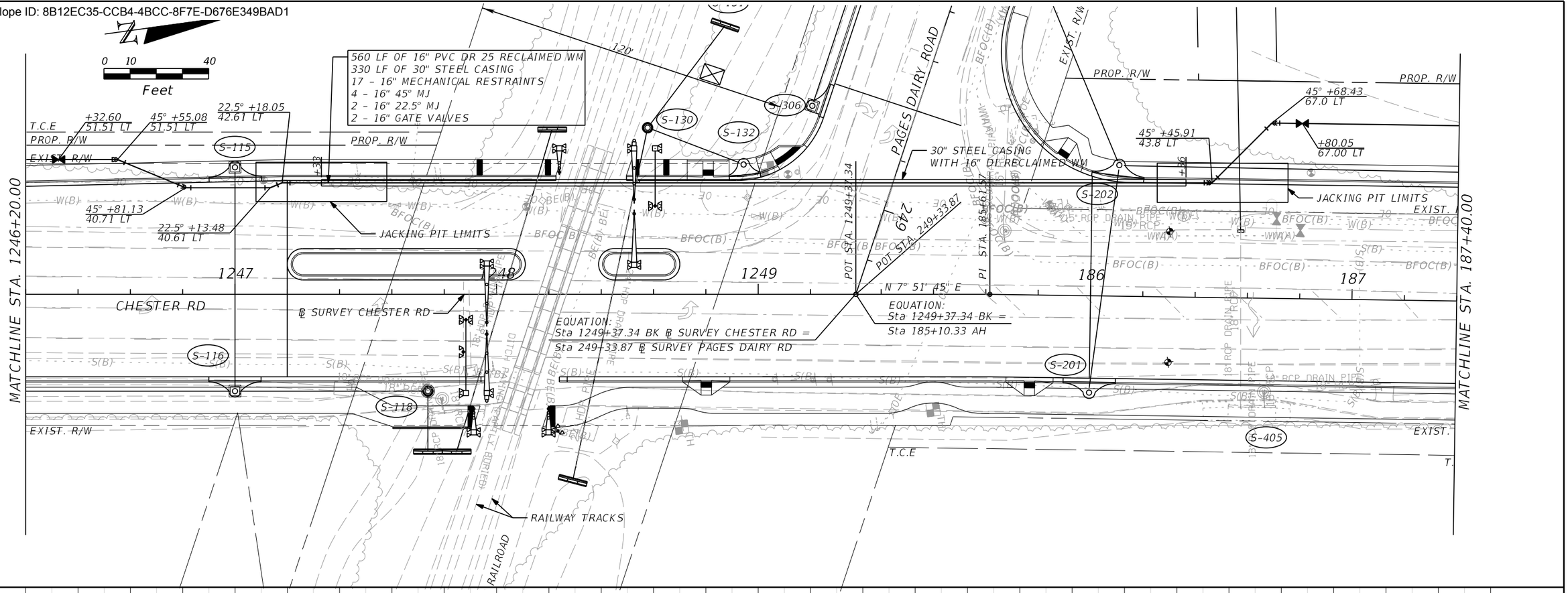
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

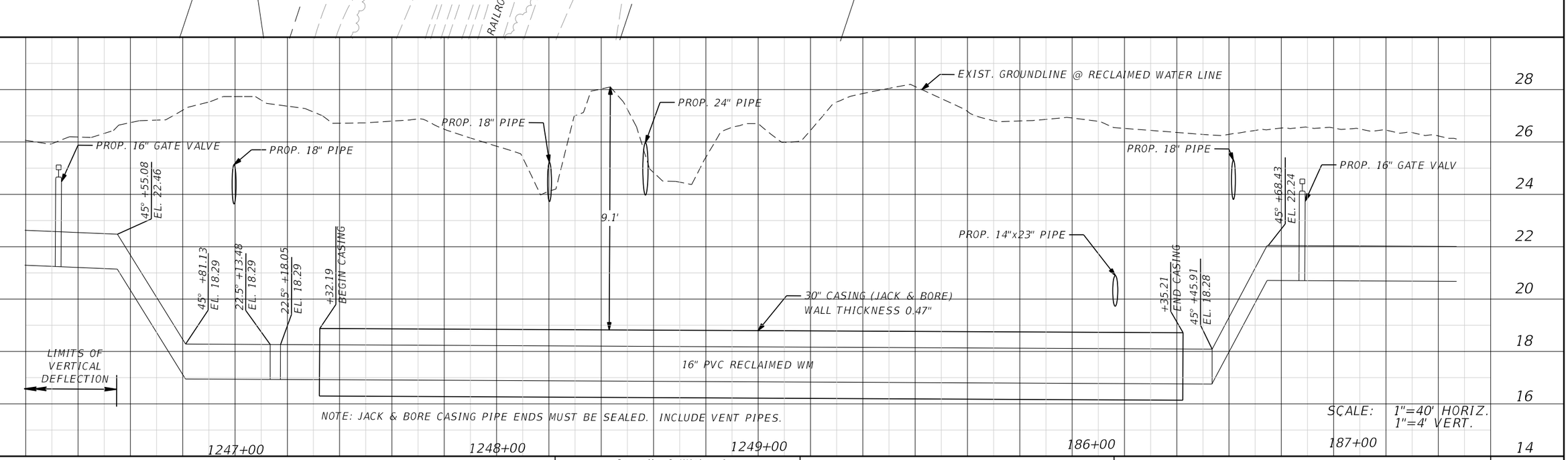
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

RECLAIMED WATER PLAN & PROFILE

SHEET NO. R-3

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1





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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

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RECLAIMED WATER PLAN & PROFILE

SHEET NO. R-4

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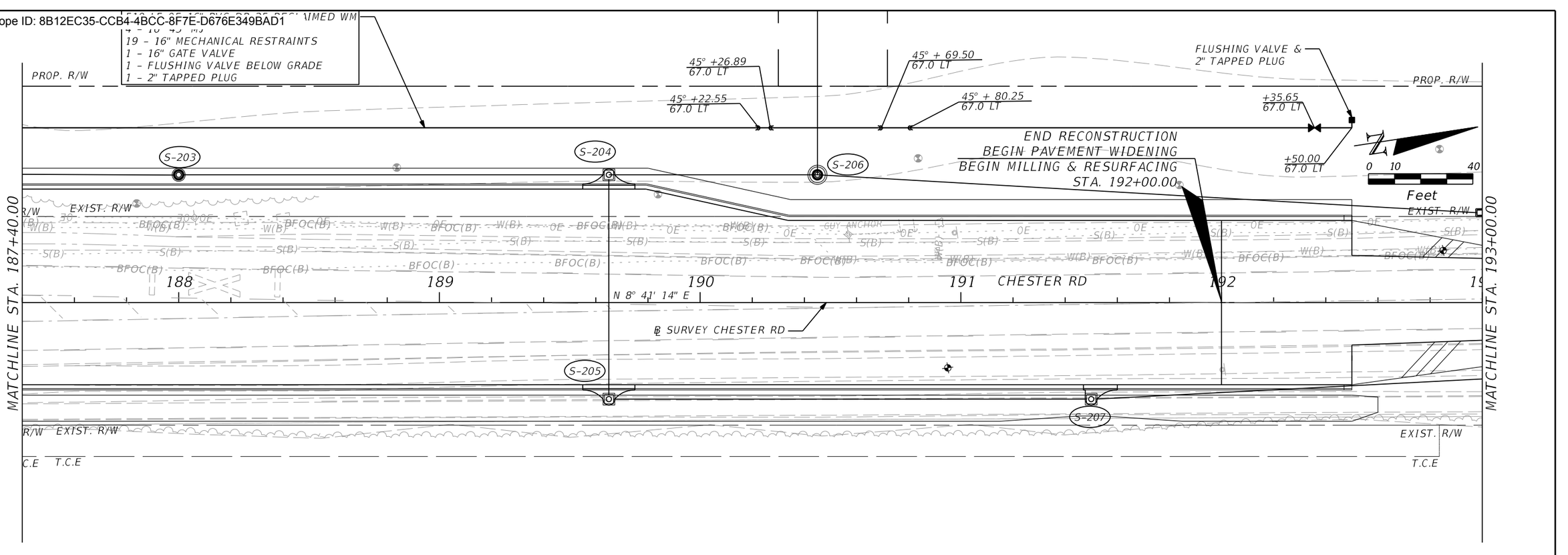

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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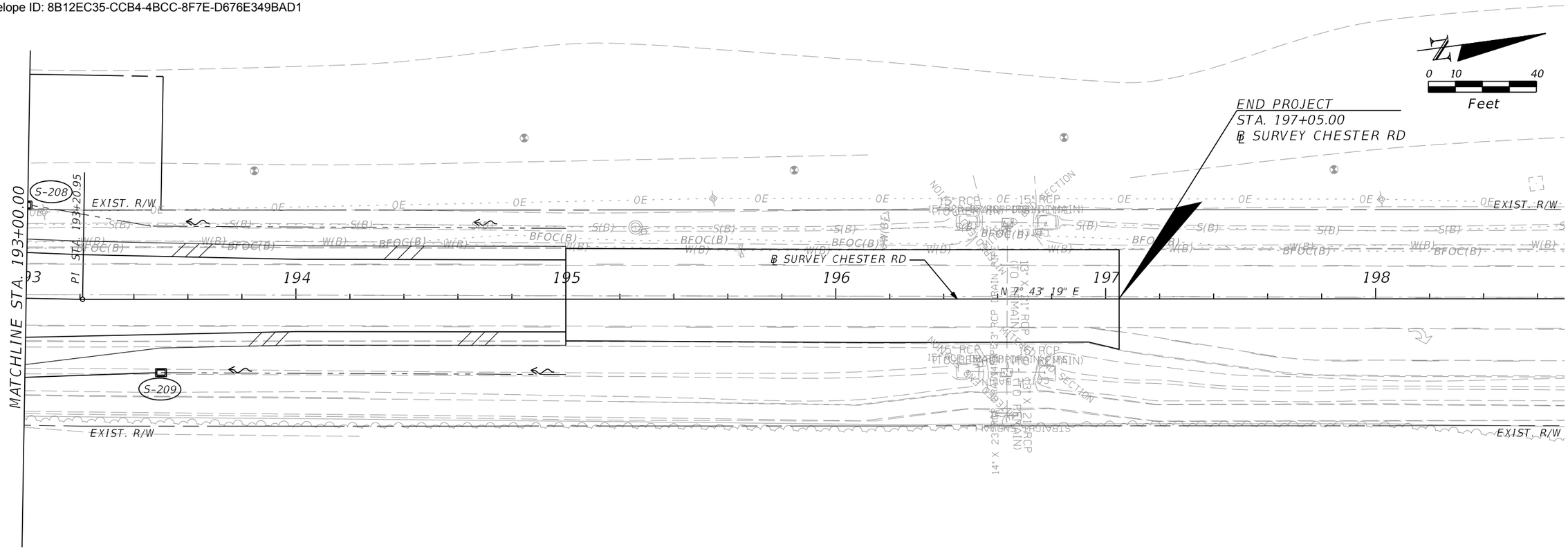
RECLAIMED WATER PLAN & PROFILE

SHEET NO. R-5

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1



NO RECLAIMED WATER
LINES ON THIS SHEET

194+00 195+00 196+00 197+00 198+00

SCALE: 1"=40' HORIZ.
1"=4' VERT.

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RECLAIMED WATER PLAN & PROFILE

SHEET NO. R-6

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1

HORIZONTAL & VERTICAL SEPARATION REQUIREMENTS

PROPOSED UTILITY

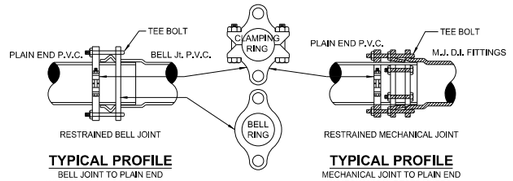
CONFLICTING UTILITY	POTABLE WATER			WASTEWATER GRAVITY AND FORCE MAIN			RECLAIMED WATER			VACUUM SEWERS		
	HORIZ.	VERT.	JOINT SPACING*	HORIZ.	VERT.	JOINT SPACING*	HORIZ.	VERT.	JOINT SPACING*	HORIZ.	VERT.	JOINT SPACING*
POTABLE WATER	3' NOTE 1	12"	3' NOTE 2	6' to 10'	12" NOTE 5	6' NOTE 2	3'	12"	6' NOTE 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

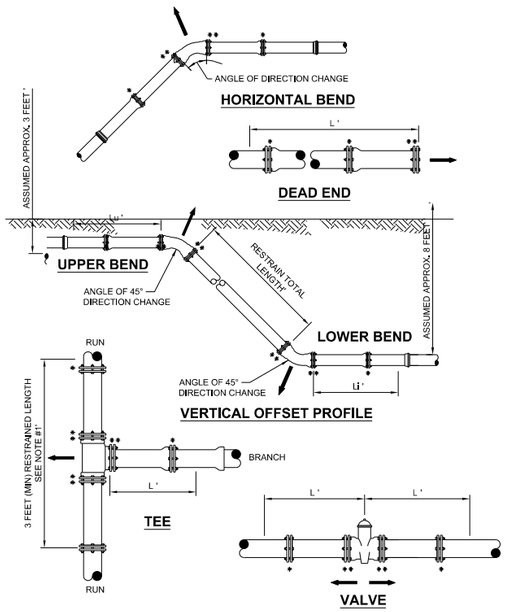


GENERAL NOTE:

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: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1

HORIZONTAL & VERTICAL SEPARATION REQUIREMENTS

CONFLICTING UTILITY	PROPOSED 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

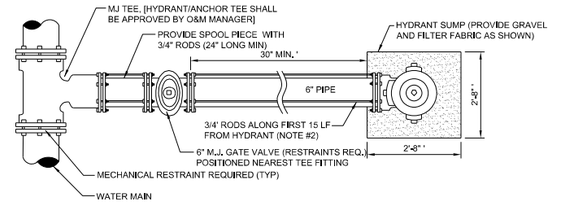
JANUARY 2023 PLATE W-10

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



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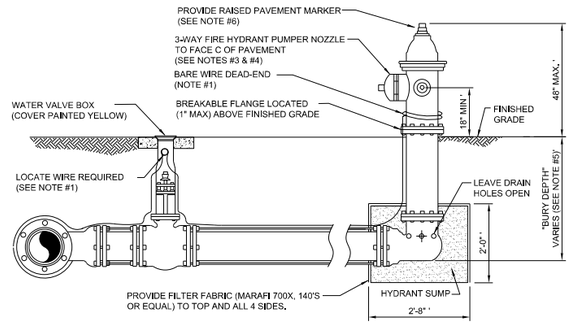

SECTION

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

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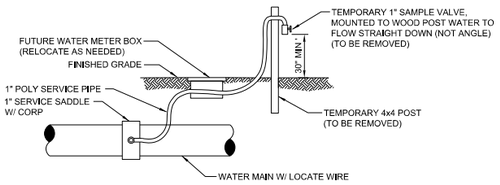


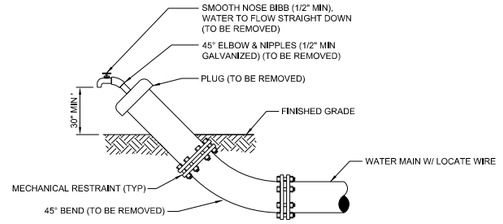
TEMPORARY SAMPLE TAP UTILIZING A NEW 1" WATER SERVICE

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



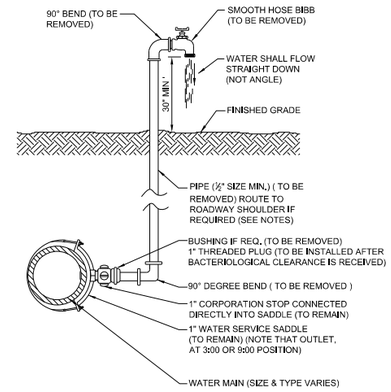
TEMPORARY SAMPLE TAP UTILIZING PLUG AT FLUSHING LOCATION

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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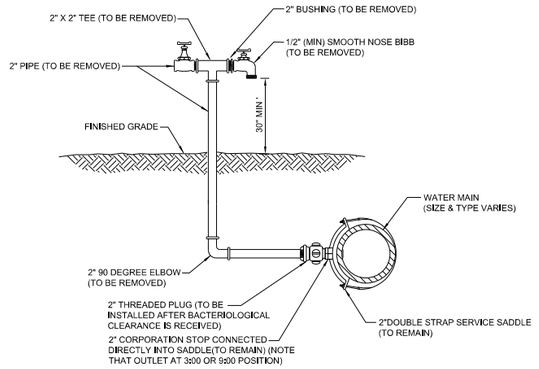
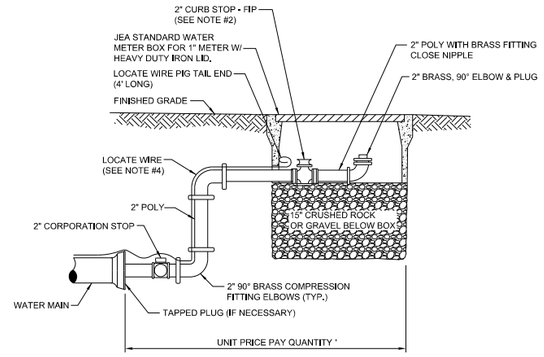


NOTES:

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

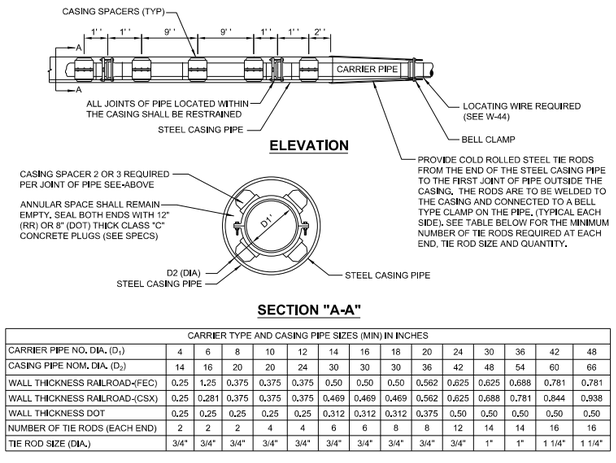


NOTES:

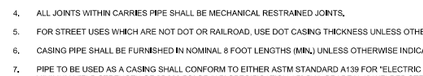
1. PIPE SHALL BE POLYETHYLENE. FITTINGS SHALL BE BRASS.
2. THE 2" CURB STOP SHALL BE ALL BRONZE. FITTINGS SHALL BE BRASS.
3. ANY RECLAIMED WATER VALVE SHALL HAVE RECLAIMED EMBLEM.
4. LOCATE WIRE FOR 10' OR GREATER IN LENGTH.
5. CANNOT BE PLACED UNDER CONCRETE OR PAVEMENT.
6. PLACE 2 FEET PAST LAST WATER 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

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-6

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1

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
30x30	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	8 4 < LESS	10 F.O.
8	8 6 < LESS	29 F.O.
10	10 8 6 < LESS	45 13 F.O.
12	12 10 8 < LESS	62 32 F.O.
16	16 12 10 10 < LESS	94 39 5 F.O.
20	20 16 12 10 < LESS	125 76 14 F.O.
24	24 20 16 12 < LESS	124 84 36 F.O.
30	30 24 20 16 16 < LESS	159 104 60 5 F.O.
36	36 30 24 20 16 < LESS	192 142 83 33 F.O.
42	42 36 30 24 20 16 < LESS	223 178 124 59 5 F.O.
48	48 42 36 30 24 20 < LESS	253 209 162 104 34 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
30x30	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 4 < LESS	6 F.O.
8	8 6 < LESS	19 F.O.
10	10 8 6 < LESS	29 9 F.O.
12	12 10 8 < LESS	40 21 F.O.
16	16 12 10 8 < LESS	60 25 3 F.O.
20	20 16 12 10 < LESS	79 48 9 F.O.
24	24 20 16 12 < LESS	79 54 23 F.O.
30	30 24 20 16 12 < LESS	101 66 38 4 F.O.
36	36 30 24 20 16 12 < LESS	122 90 53 21 1 F.O.
42	42 36 30 24 20 16 12 < LESS	141 113 79 38 3 1 F.O.
48	48 42 36 30 24 20 < LESS	160 133 103 66 22 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

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NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

JEA CONSTRUCTION DETAILS

SHEET NO. U-7

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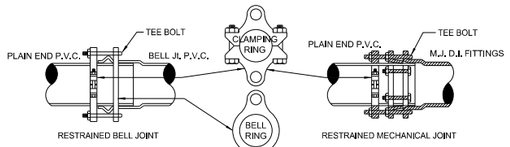
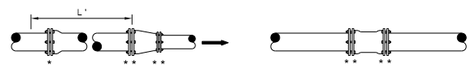


TYPICAL PROFILE
BELL JOINT TO PLAIN END
W/MECHANICAL RESTRAINERS

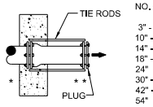
SECTION

TYPICAL PROFILE
MECHANICAL JOINT TO PLAIN END
W/MECHANICAL RESTRAINERS



REDUCER

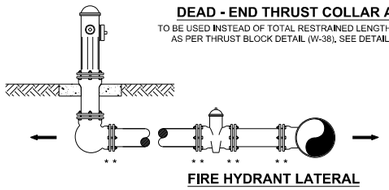
MECHANICAL JOINT SLEEVES



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.



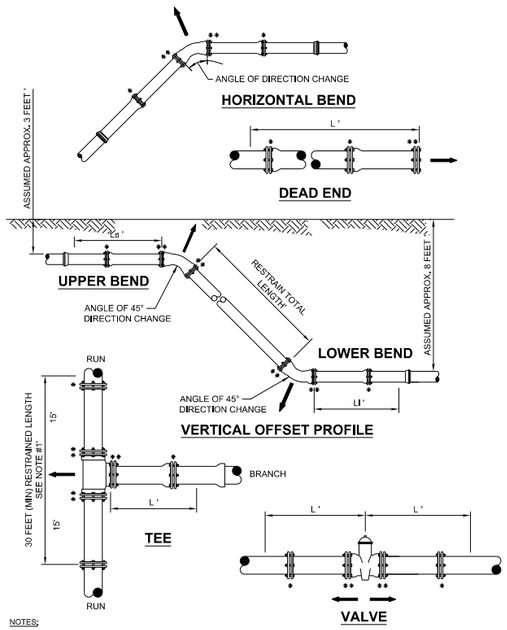
FIRE HYDRANT LATERAL

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

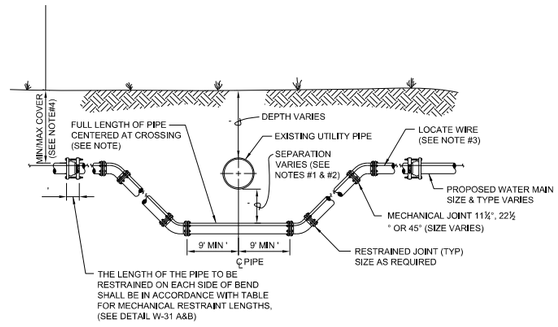


NOTES:

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

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10060 Skinner Lake Dr., Suite 500
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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	

JEA CONSTRUCTION DETAILS

SHEET NO. U-8

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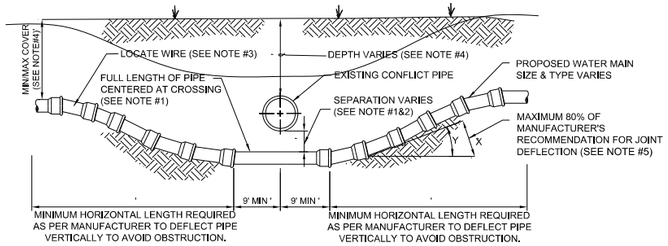


CASE "B" CROSSING

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)

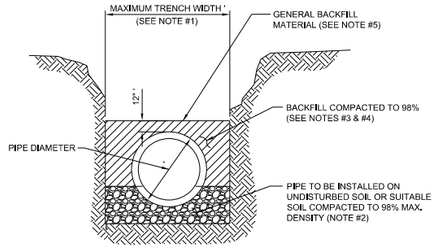
PIPE SIZE (IN.)	(X) MAX. OFFSET (IN.)	(Y) ANGLE AT ONE BELL	RESULTING RADIUS OF CURVE WITH 20FT. LENGTHS
-	-	-	-
4	27	6.5°	177 FT
6	24	5.7°	200 FT
8 - 12	17.5	4.2°	273 FT
14 - 16	12	2.9°	400 FT
18 - 20	10	2.4°	477 FT
24 - 30	8	1.9°	600 FT
36	7	1.7°	687 FT
42 - 48	6.7	1.6°	716 FT

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



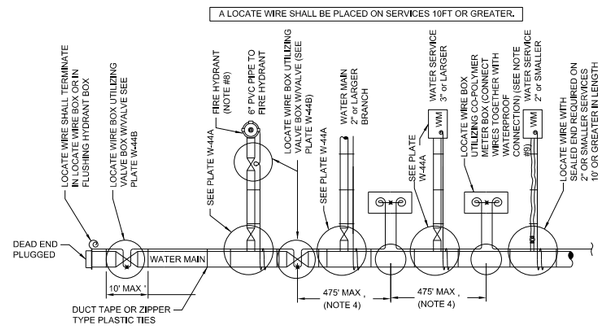
TYPICAL TRENCH

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

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FL P.E. No. 73903

NASSAU COUNTY ENGINEERING

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	NASSAU	

JEA CONSTRUCTION DETAILS

SHEET NO. U-9

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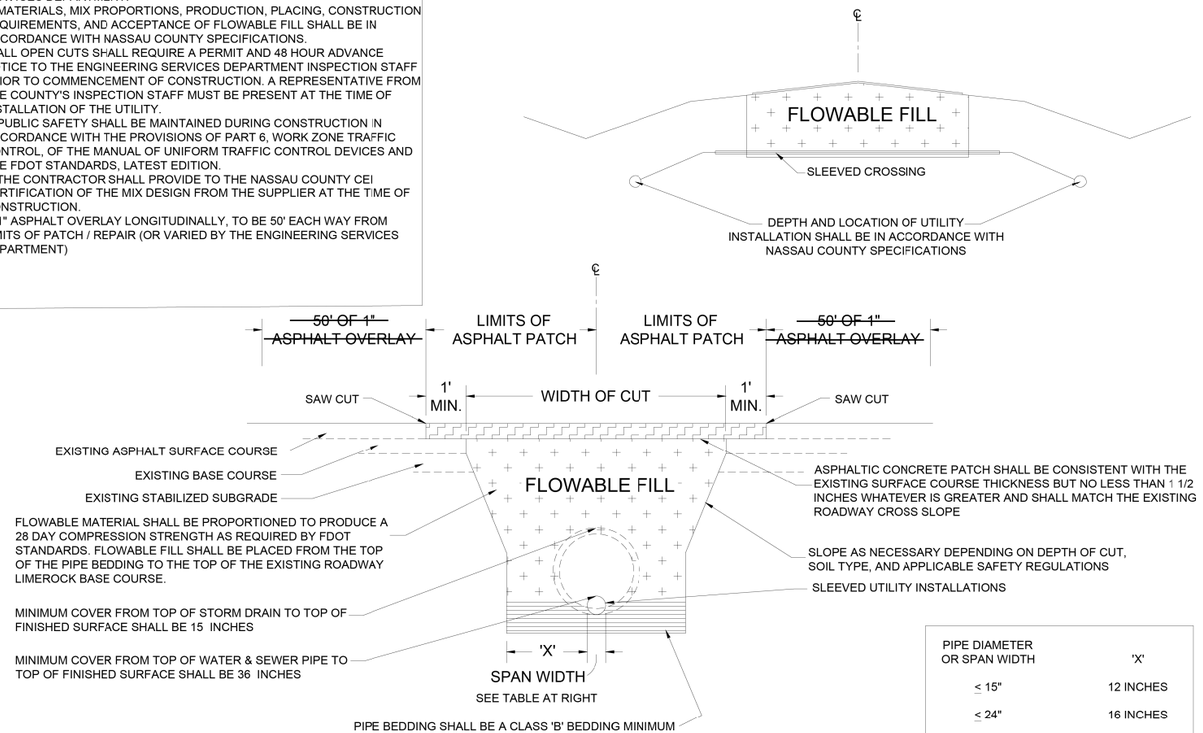
NOTES:
1. OPEN ROAD CUTS ARE GENERALLY NOT AN ACCEPTABLE MEANS OF CONSTRUCTION UNLESS APPROVED IN ADVANCE BY THE ENGINEERING SERVICES DEPARTMENT.
2. MATERIALS, MIX PROPORTIONS, PRODUCTION, PLACING, CONSTRUCTION REQUIREMENTS, AND ACCEPTANCE OF FLOWABLE FILL SHALL BE IN ACCORDANCE WITH NASSAU COUNTY SPECIFICATIONS.
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:
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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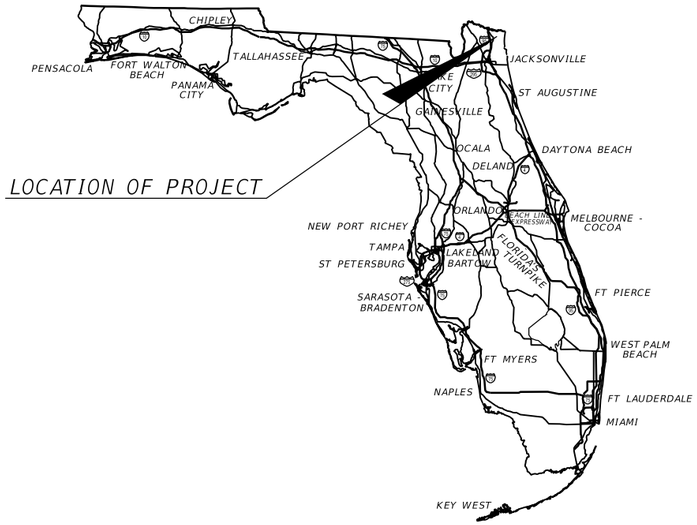
NASSAU COUNTY ENGINEERING

CONTRACT PLANS

CHESTER ROAD
INTERSECTION IMPROVEMENTS

SIGNALIZATION PLANS



INDEX OF SIGNALIZATION PLANS

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T-4	GENERAL NOTES
T-5 - T-8	SIGNALIZATION PLAN
T-9	INTERCONNECT PLAN
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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

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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-17 - T-18	ITS SPLICING DETAILS
T-19 - T-20	UTILITY PLAN
T-24	RAILROAD JACK AND BORE PLAN VIEW
T-25	RAILROAD JACK AND BORE PROFILE VIEW

STEPHEN R. WEAVER
LICENSE
No 37389
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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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

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ON THE DATE ADJACENT TO THE SEAL

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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	

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:

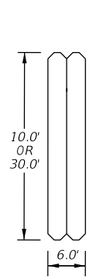
1. ALL MOVEMENTS OF EQUIPMENT WITHIN RAILWAY PROPERTY MUST BE COORDINATED WITH THE RAILWAY WATCHMAN.
2. DURING TRAIN MOVEMENTS THROUGH THE PROJECT LOCATION, VEHICLES, EQUIPMENT, AND PERSONNEL WILL NOT BE ALLOWED TO OPERATE.
3. ANY DAMAGE CAUSED BY THE ROADWAY WORK TO THE TRACK OR RAILWAY PROPERTY WILL 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



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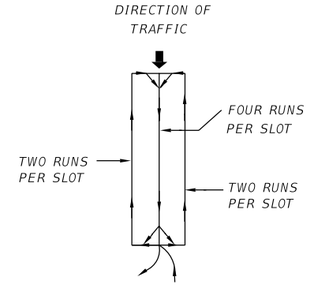

DETAIL OF LOOP WINDING
(QUADRAPOLE PRESENCE LOOP)

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

jcatagan 12/13/2023 3:12:46 PM F:\2016\16-026 Nassau County Pages Dairy Chester Road Intersection Improvements - CWI\FPID# or PY-Job#\signals\gnntsg01.dgn

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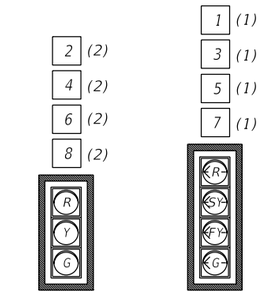
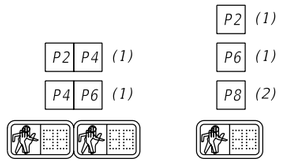
SIGNAL HEAD DETAILS



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

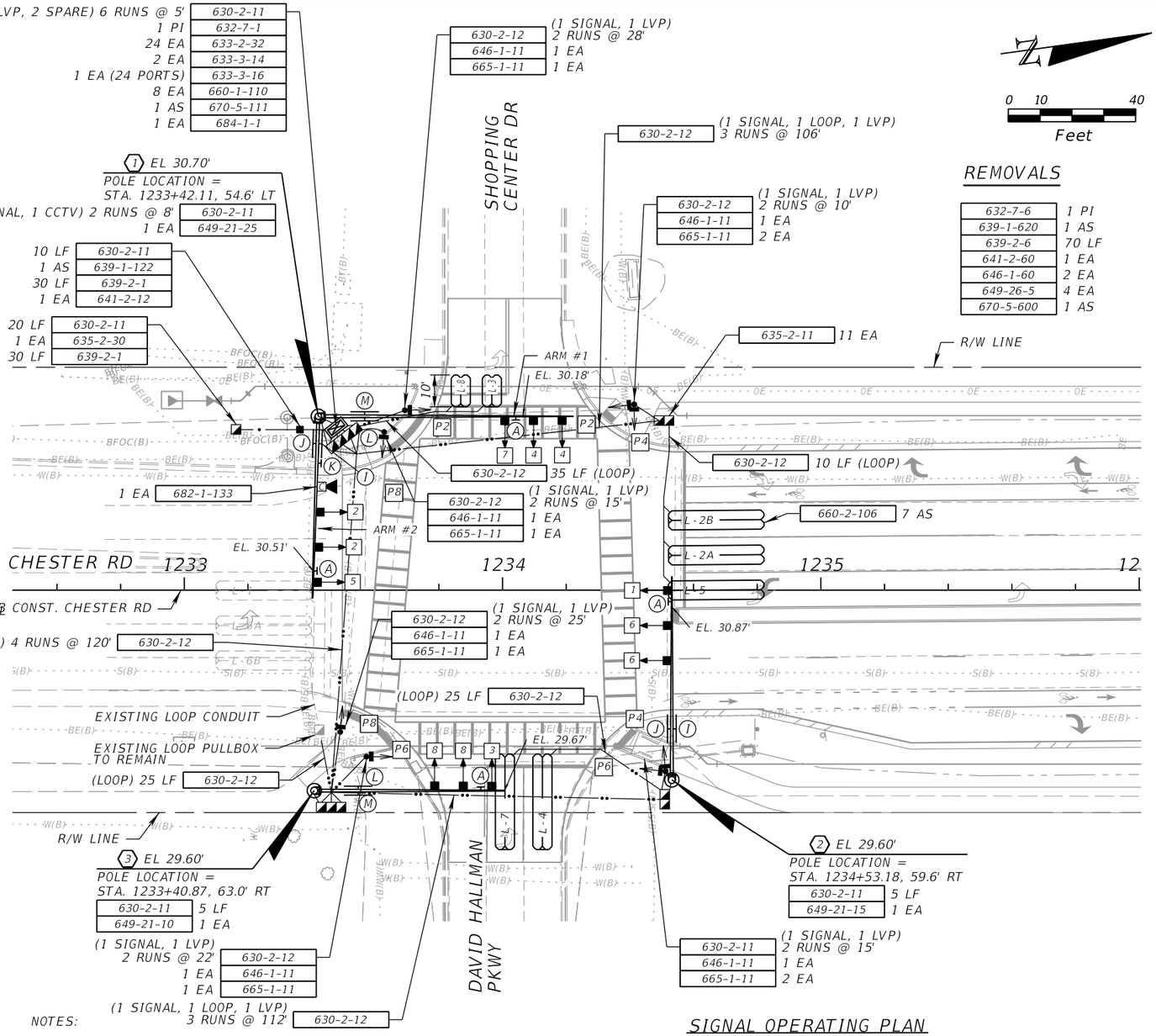
(A)
FTP-85-13
30" x 36"
700-3-201 4 EA

(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

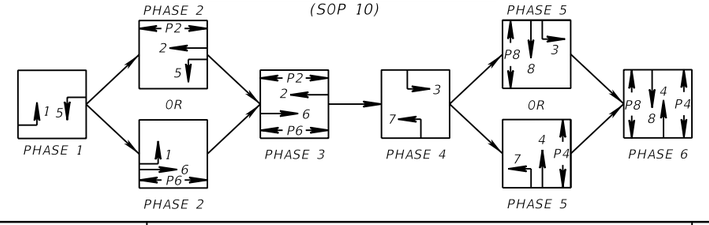
DELAY TIME IS INITIAL AND MAY REQUIRE FIELD ADJUSTING AS DIRECTED BY THE ENGINEER.

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

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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

RR R/W LINE

R/W LINE

PROPOSED RAILROAD CONTROLLER

EXISTING RAILROAD CONTROLLER TO BE REMOVED BY RAILROAD

PROPOSED R/W LINE

EXIST. R/W LINE

PAGES DAIRY RD

CHESTER RD

℄ CONST. CHESTER RD

1247 / 1248 / 1249 / 186 / 187 / 248 / 249

7 RUNS @ 102' 630-2-12; 102 LF 639-2-1

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

35 LF 630-2-11; 50 LF 639-2-1

(1 SIGNAL, 1 LOOP) 2 RUNS @ 40' 630-2-11

EL. 26.32' / EL. 28.18' / EL. 28.33' / EL. 28.23' / EL. 28.40' / EL. 28.57' / EL. 27.75' / EL. 27.42'

ARM #1 / ARM #2

630-2-11 14 LF (LOOP)

682-1-133 1 EA

11 AS 660-2-106

(LOOP) 10 LF 630-2-11

20 EA 635-2-11

(1 LOOP, 1 FIBER, 1 LOCATE, 1 SPARE) 4 RUNS @ 247' 630-2-20

(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

(1 SIGNAL, 1 LVP) 630-2-11 2 RUNS @ 27'; 646-1-11 1 EA; 665-1-11 1 EA

630-2-12 8 RUNS @ 133'

(2 SIGNAL, 1 LVP, 1 FIBER, 1 LOCATE, 1 LOOP, 2 SPARES)

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

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

630-2-11 10 LF

(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'

(1P) (1 SIGNAL, 1 LVP) 630-2-11 2 RUNS @ 6'; 646-1-11 1 EA; 665-1-11 1 EA

(2P) (1 SIGNAL, 1 LVP) 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		

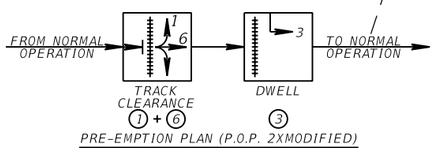
TIMINGS ARE INITIAL AND MAY REQUIRE FIELD ADJUSTING AS DIRECTED BY THE ENGINEER. INSTALL CONCURRENT TIMING OF INITIAL AND EXTENSION INTERVALS.

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



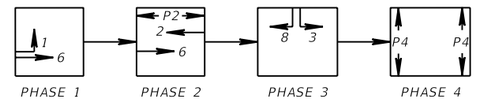
PRE-EMPTION PLAN (P.O.P. 2XMODIFIED)

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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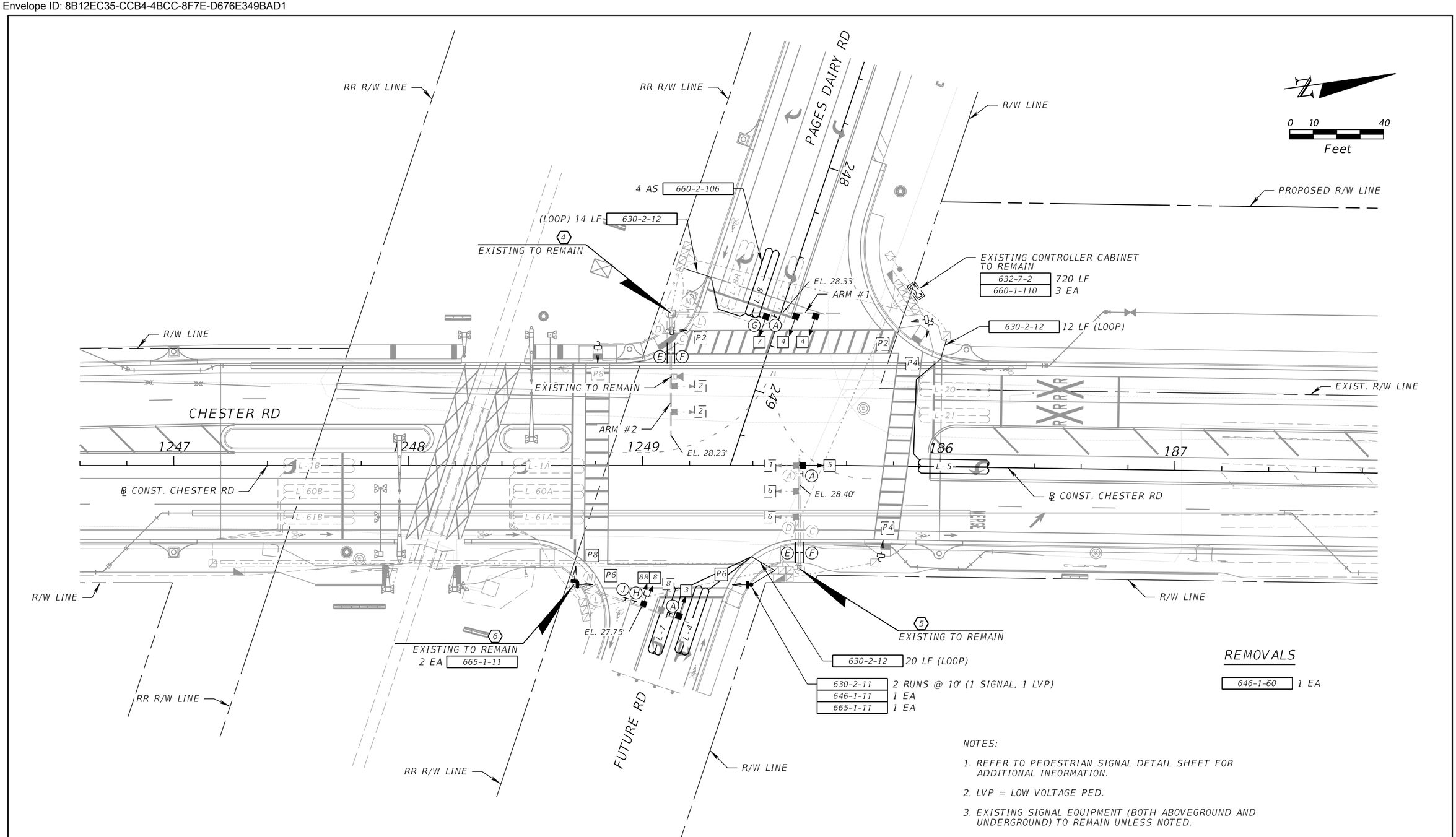

REMOVALS

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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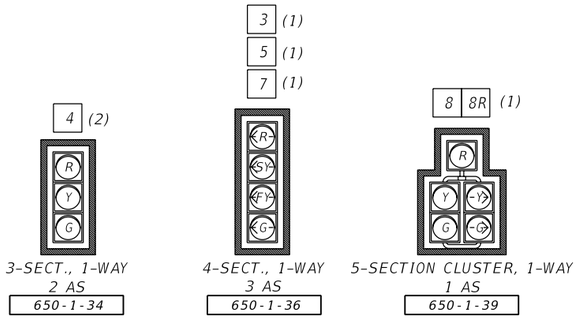
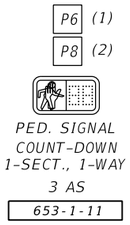
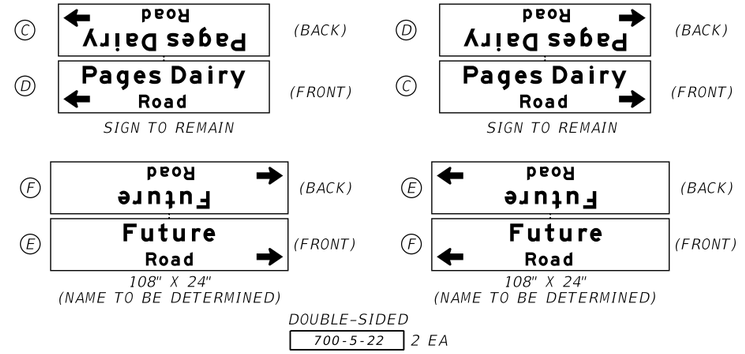
SIGNAL HEAD DETAILS

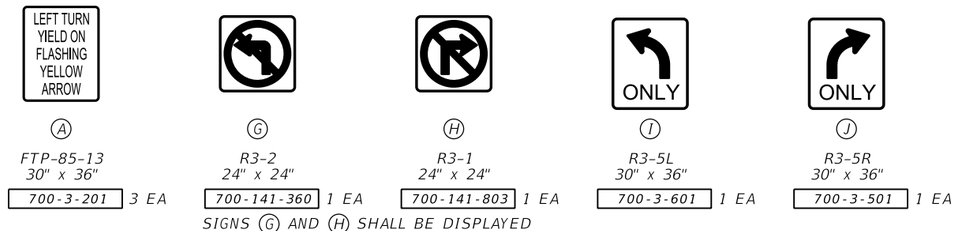


PEDESTRIAN HEAD DETAILS



STREET NAME AND SIGN DETAILS





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.

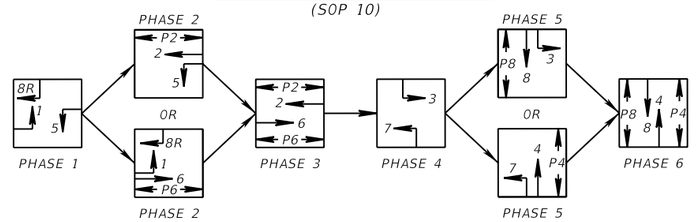
DETECTORS FOR LOOPS

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

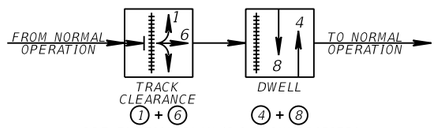
DELAY TIME IS INITIAL AND MAY REQUIRE FIELD ADJUSTING AS DIRECTED BY THE ENGINEER.

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

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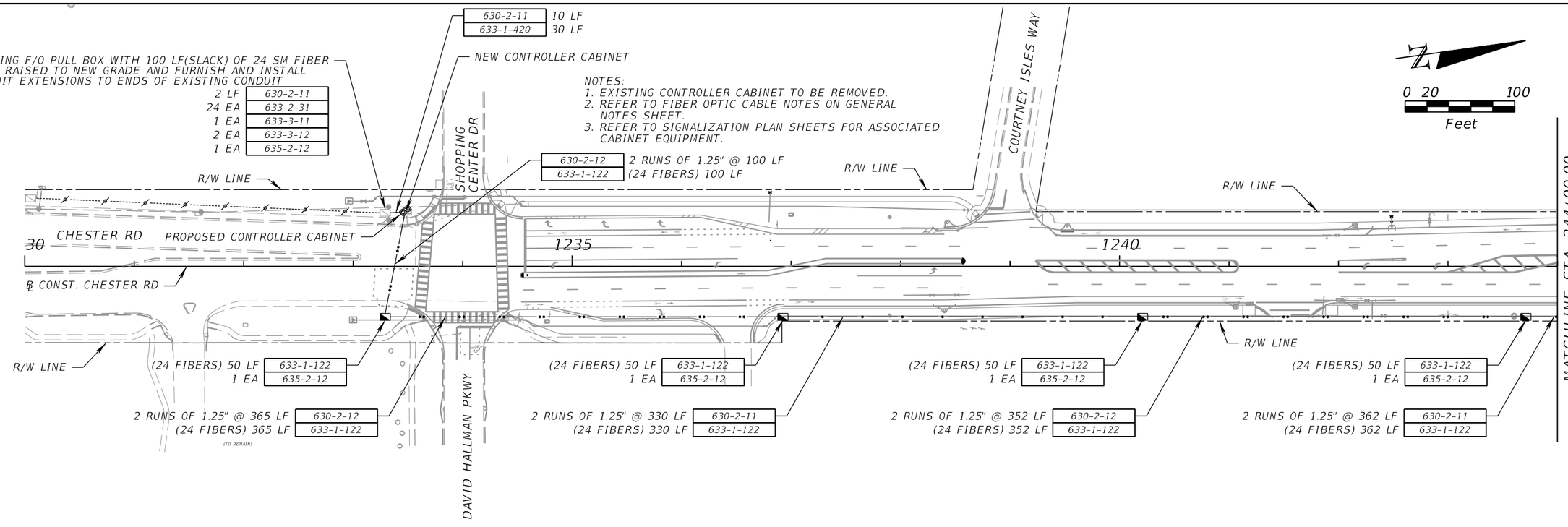

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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	

INTERCONNECT PLAN

SHEET NO. T-9

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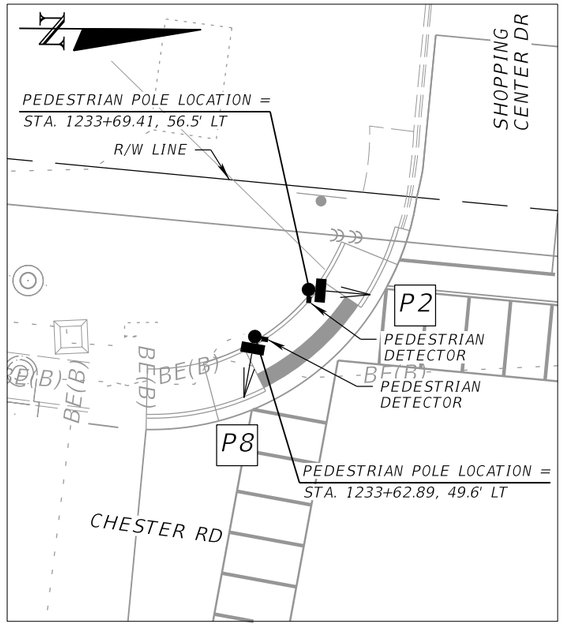
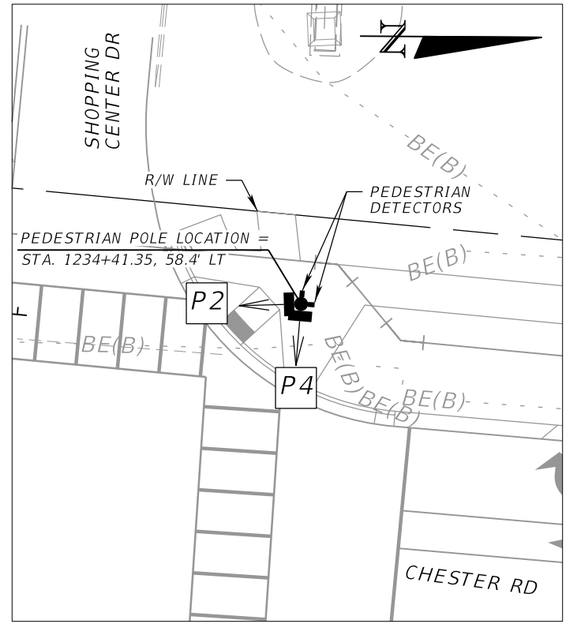
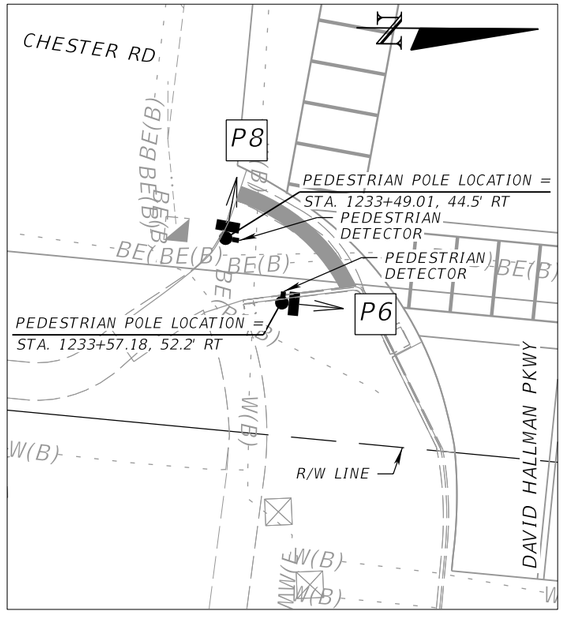


SOUTHWEST QUADRANT AT
CHESTER RD AND SHOPPING CENTER DR

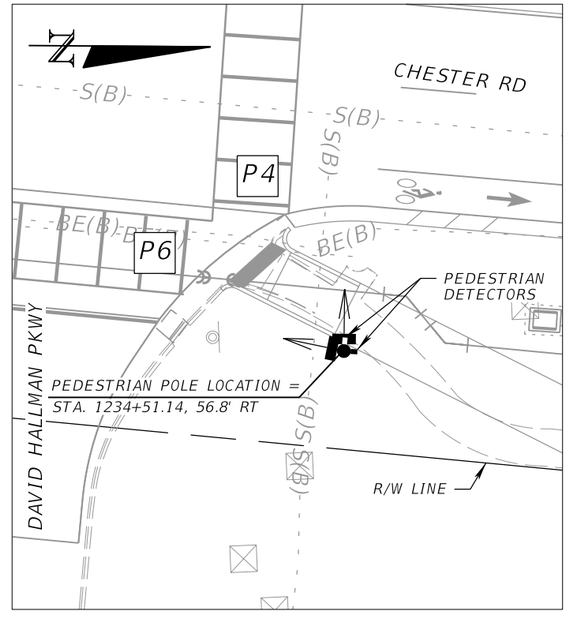


NORTHWEST QUADRANT AT
CHESTER RD AND SHOPPING CENTER DR



SOUTHEAST QUADRANT AT
CHESTER RD AND DAVID HALLMAN PKWY

0 5 20
Feet



NORTHEAST QUADRANT AT
CHESTER RD AND DAVID HALLMAN PKWY

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

jcatagan 10/18/2023 11:07:11 AM F:\2016\16-026 Nassau County Pages Dairy Chester Road Intersection Improvements - CWI\FPID# or PY-Job#\signals\ssdtsg01.dgn

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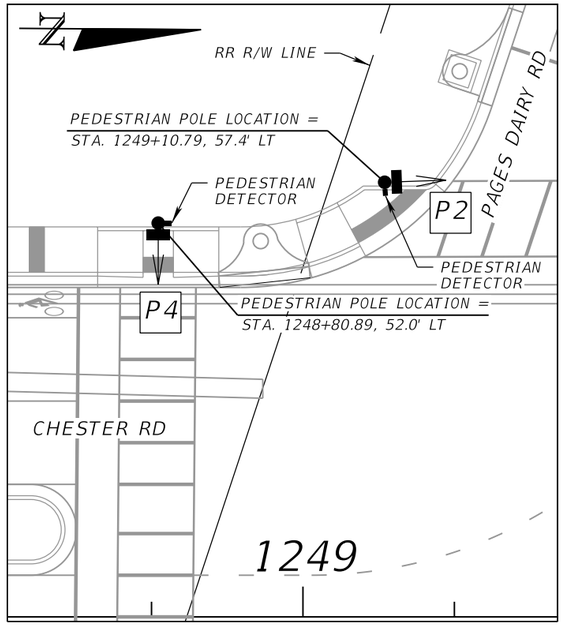
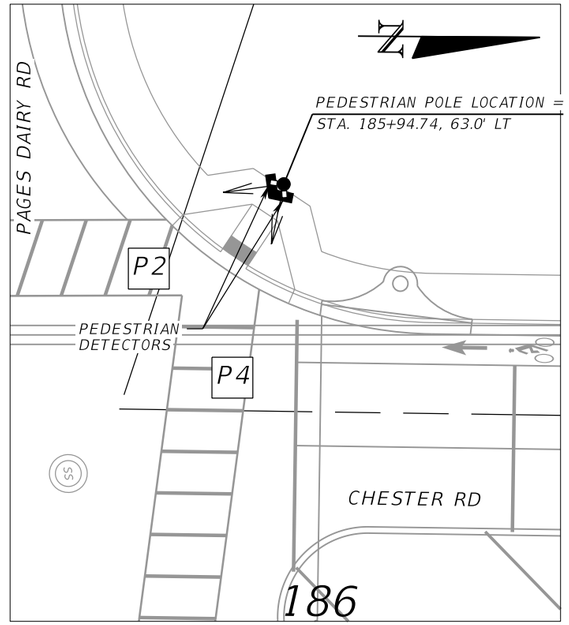
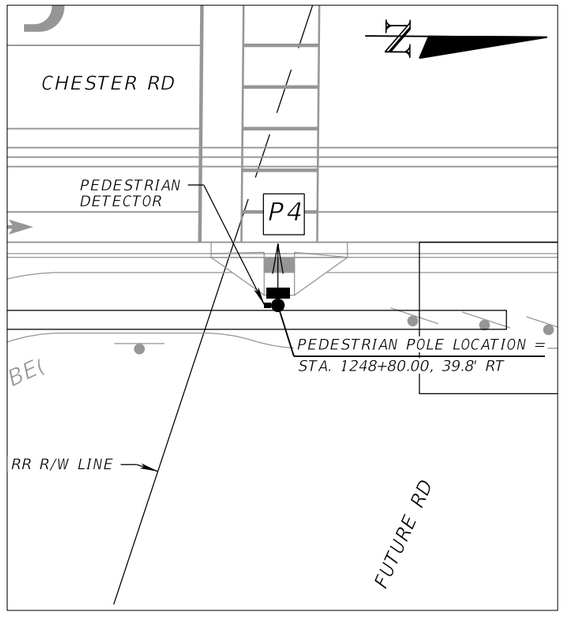
DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1



SOUTHWEST QUADRANT AT
CHESTER RD AND PAGES DAIRY RD

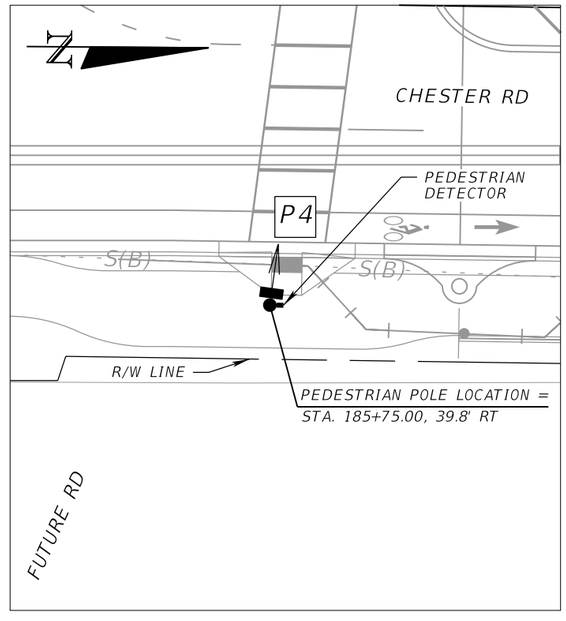


NORTHWEST QUADRANT AT
CHESTER RD AND PAGES DAIRY RD



SOUTHEAST QUADRANT AT
CHESTER RD AND FUTURE RD

0 5 20
Feet



NORTHEAST QUADRANT AT
CHESTER RD AND FUTURE RD

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
PHASE I CONSTRUCTION

SHEET NO. T-11

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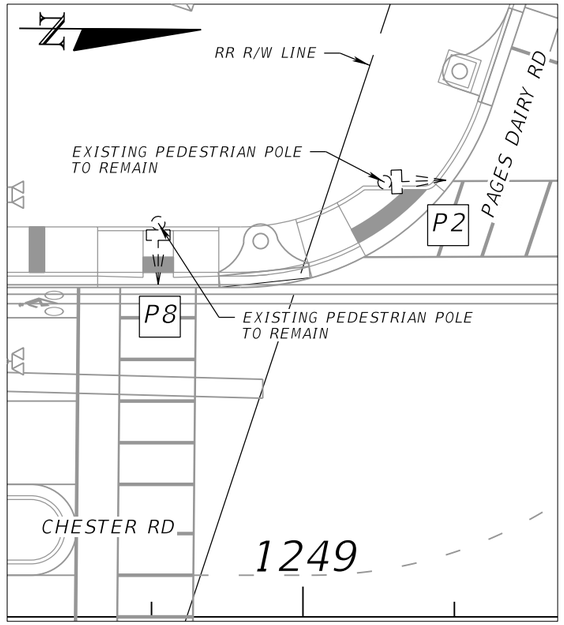
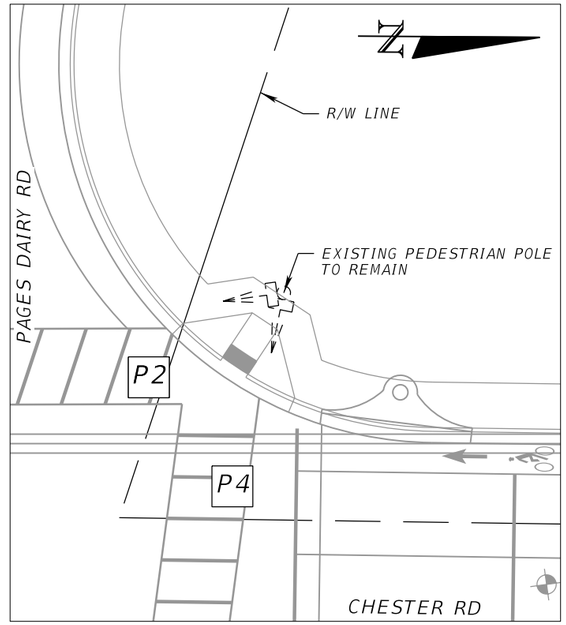
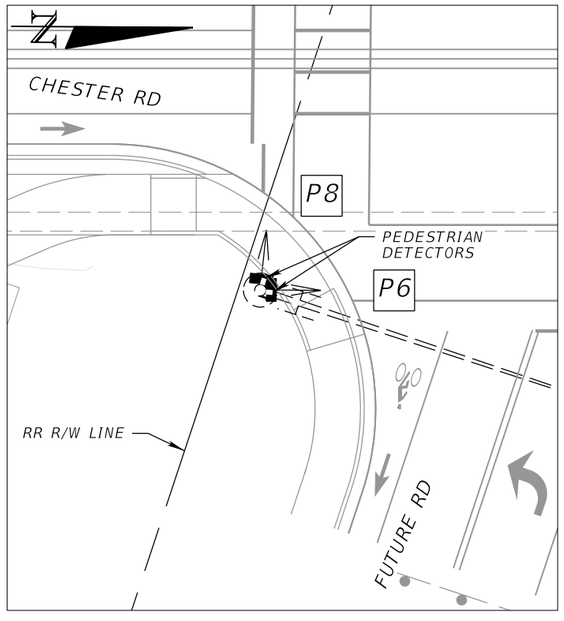


SOUTHWEST QUADRANT AT
CHESTER RD AND PAGES DAIRY RD

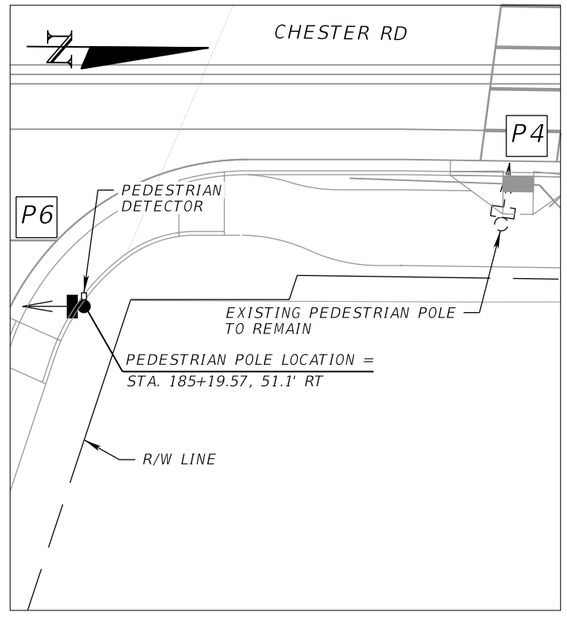


NORTHWEST QUADRANT AT
CHESTER RD AND PAGES DAIRY RD



SOUTHEAST QUADRANT AT
CHESTER RD AND FUTURE RD

0 5 20
Feet



NORTHEAST QUADRANT AT
CHESTER RD AND FUTURE RD

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	

PEDSTRIAN SIGNAL DETAIL ULTIMATE DESIGN

SHEET NO. T-12

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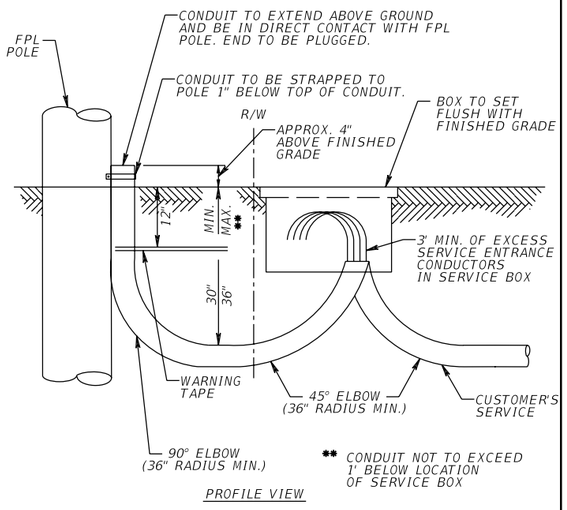
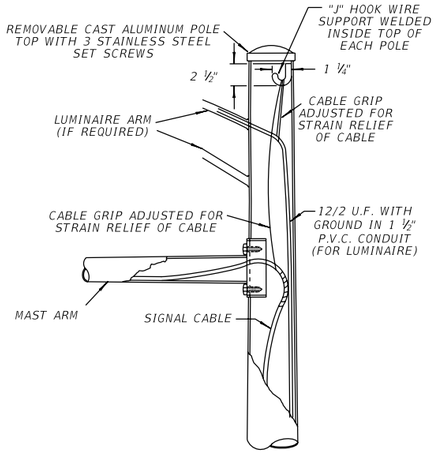
DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1



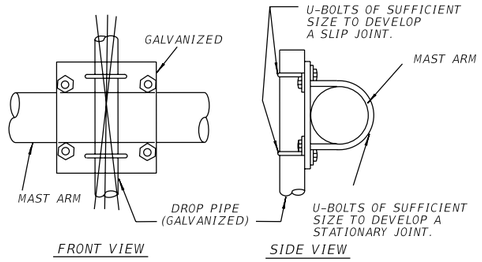
POWER SERVICE DETAIL

N.T.S.



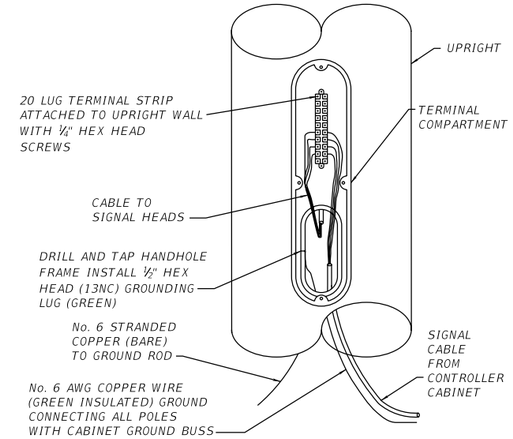
TYPICAL CABLE STRAIN RELIEF DETAIL

N.T.S.



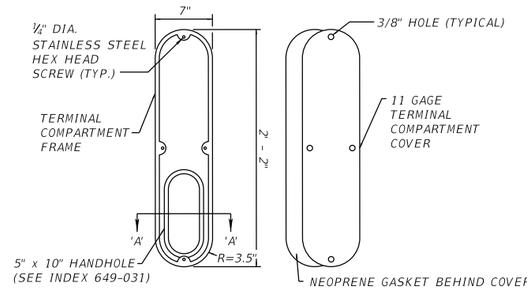
SIGN ARM BRACKET

N.T.S.



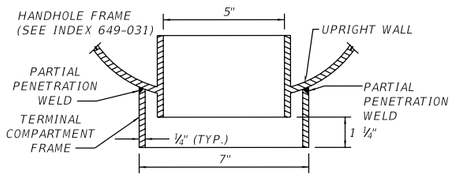
TERMINAL COMPARTMENT WIRING DETAILS

N.T.S.



TERMINAL COMPARTMENT FRAME AND COVER DETAIL

N.T.S.

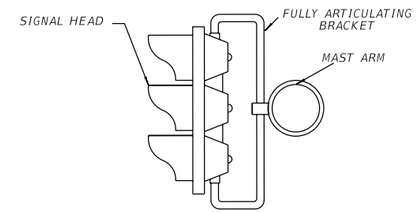


SECTION "A-A"

N.T.S.

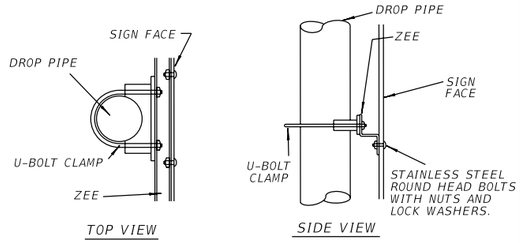
STANDARD INTERCONNECT CONDUIT ALIGNMENT DETAIL

N.T.S.



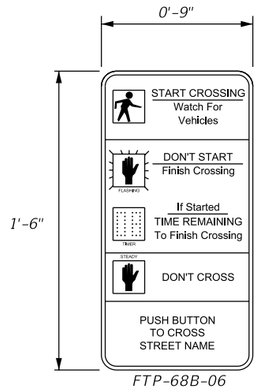
SIGNAL HEAD BRACKET ATTACHMENT DETAIL

N.T.S.



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

PETERS AND YAFFEE, INC.
9822 TAPESTRY PARK CIRCLE, SUITE 205
JACKSONVILLE, FL 32246
WAYNE T. PETRONE, P.E. 42860

NASSAU COUNTY ENGINEERING

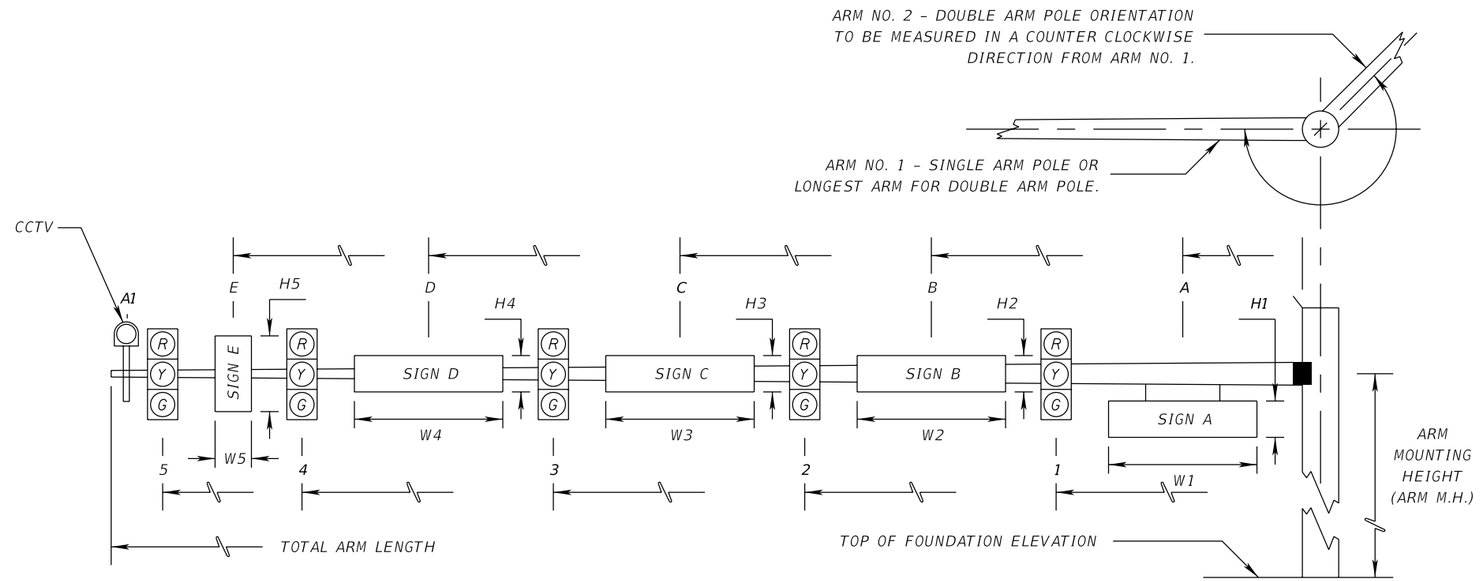
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CHESTER ROAD	NASSAU	

SPECIAL DETAILS

SHEET NO. T-13

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1

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

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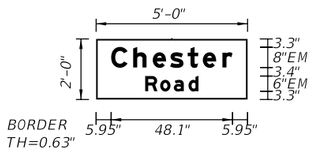
SIGN NAME	L, M	QTY	8	SIGN NUMBER	STATION(S)
PANEL		BORDER			none
WIDTH	5'-0"	WIDTH	0.63"		
HEIGHT	2'-0"	RADII	0"		
LEGEND	White	COLOR	White		
COLOR	Green				

SYMBOL(S)	ANGLE	X	Y	WID	HT

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



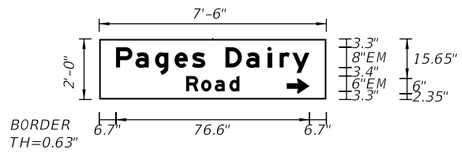
NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

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

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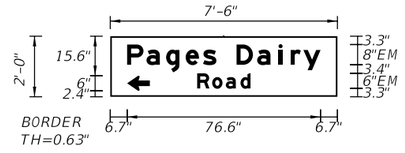
SPACE	6.7	7.7	7.8	7.8	6.9	5.3	8	8.2	8.5	4.8	5	6.8	6.7	76.6										
COPY		R	o	a	d		L																	
SPACE	34.4	5.9	5.4	5.8	4	34.4	21.1																	
COPY																								
SPACE																								
COPY																								
SPACE																								
COPY																								
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
AR_Type D	90	6.7	2.4	6	9

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



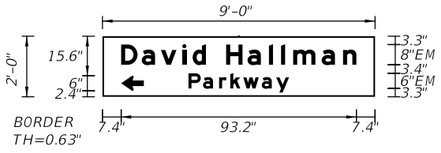
NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

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	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																								
COPY																								
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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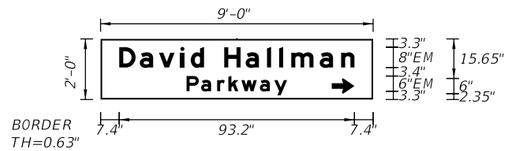
DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1

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																						
COPY																						
SPACE																						
COPY																						
SPACE																						
COPY																						
SPACE																						
COPY																						
SPACE																						

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

PETERS AND YAFFEE, INC.
9822 TAPESTRY PARK CIRCLE, SUITE 205
JACKSONVILLE, FL 32246
WAYNE T. PETRONE, P.E. 42860

NASSAU COUNTY ENGINEERING

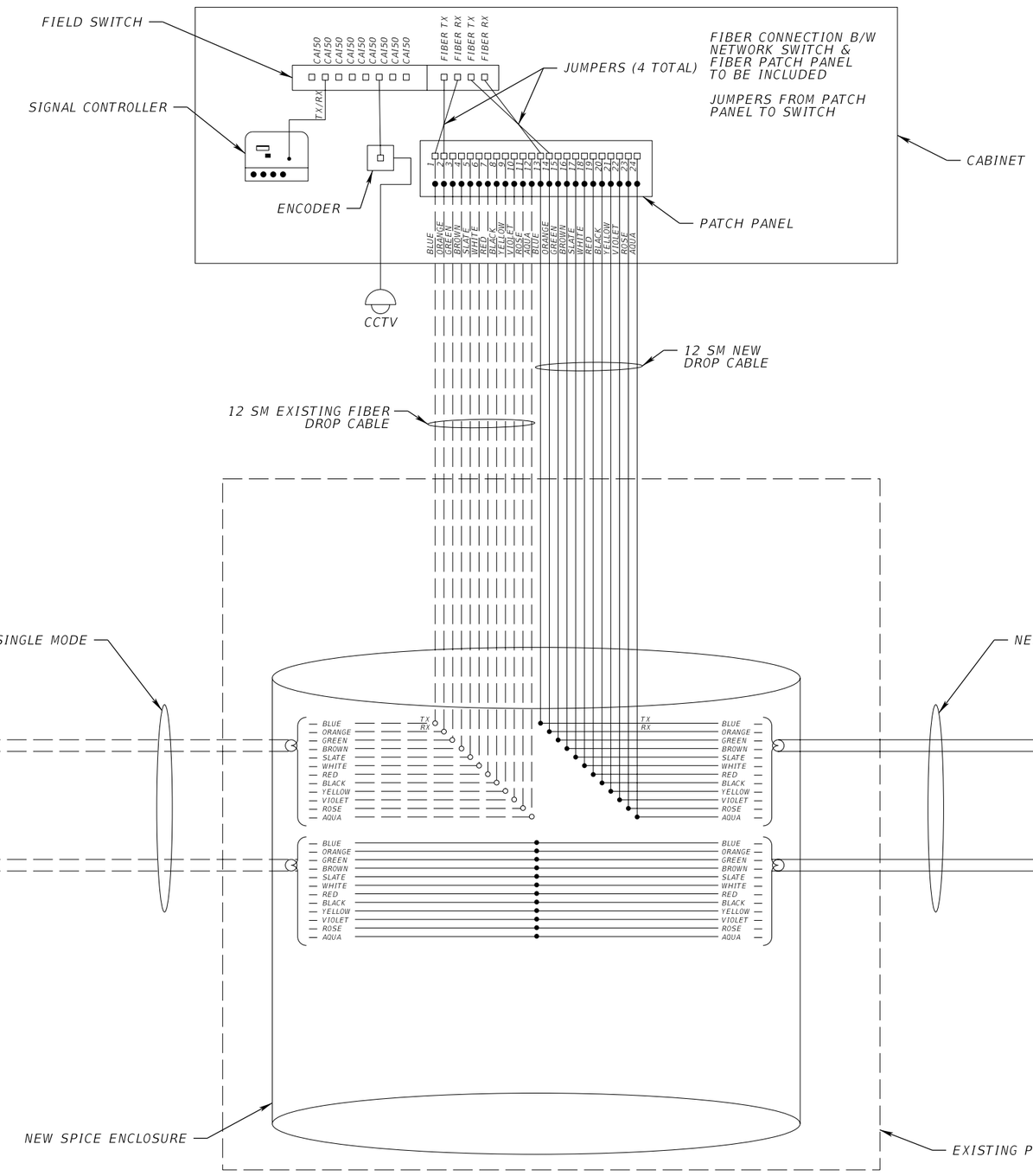
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CHESTER ROAD	NASSAU	

GUIDE SIGN WORKSHEET

SHEET NO. T-16

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1

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

jcatagan 8/24/2023 4:08:31 PM F:\2016\16-026 Nassau County Pages Dairy Chester Road Intersection Improvements - CWI\FPID# or PY-Job#\signals\ssdtsg05.dgn

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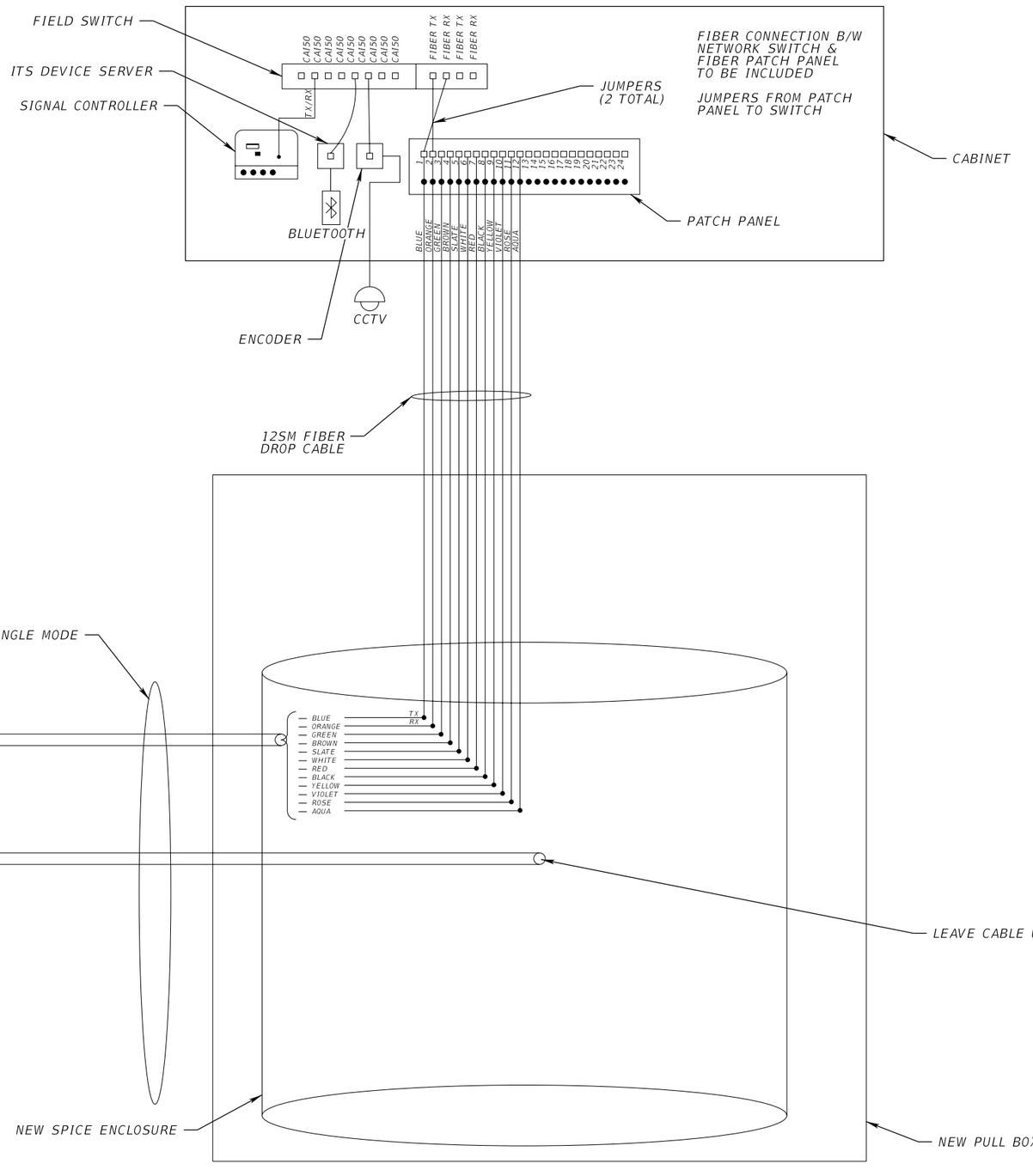
DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1

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

SHEET NO. T-18

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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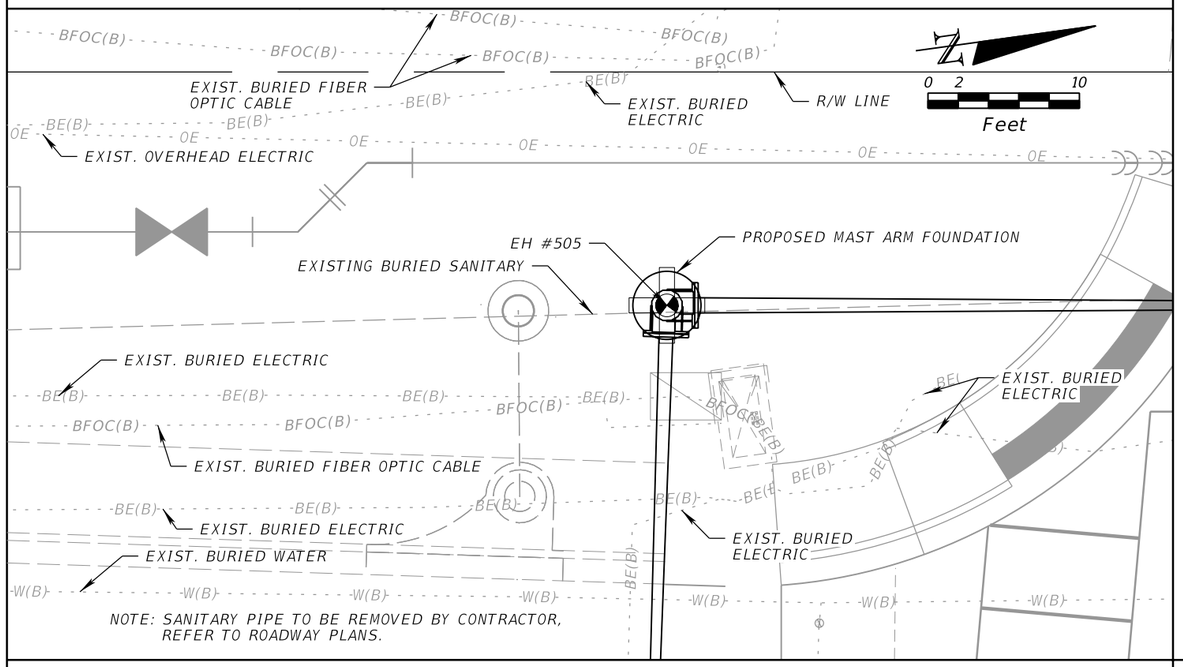
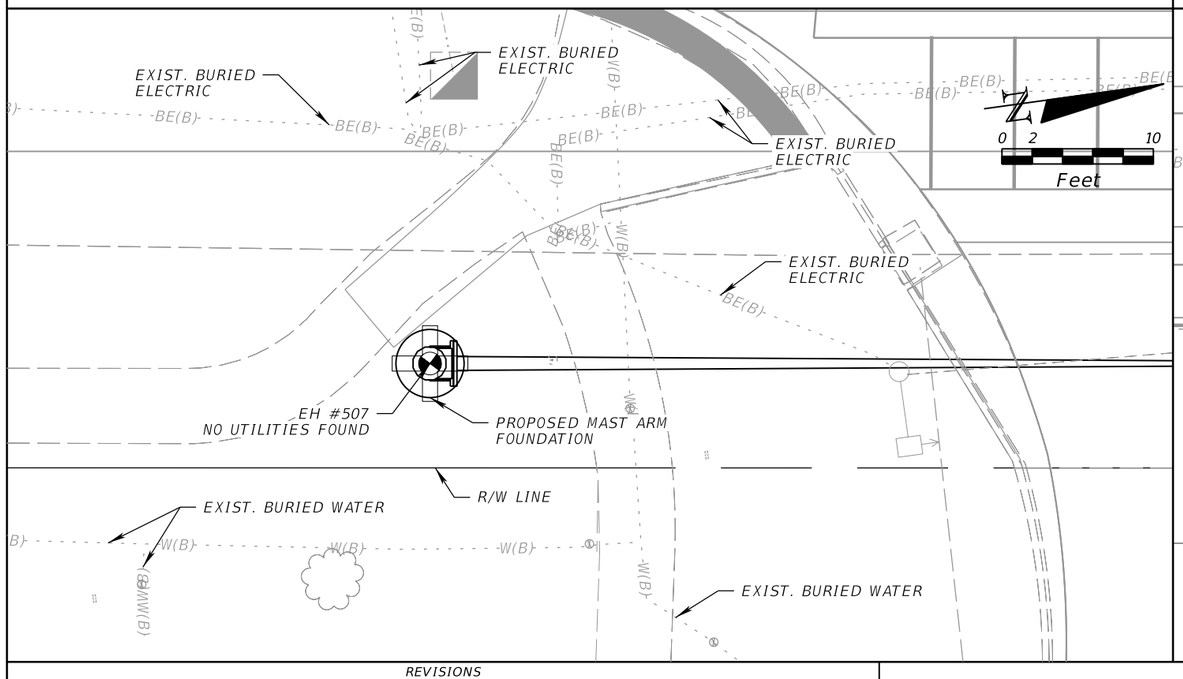
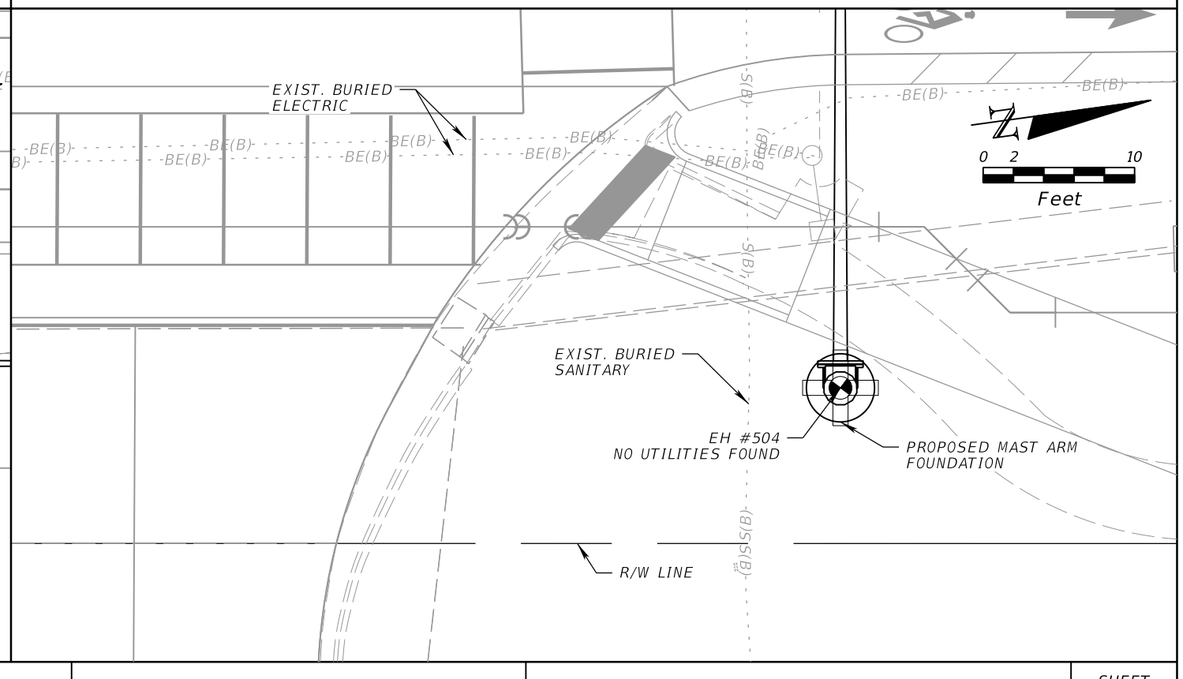
CHESTER RD AT SHOPPING CENTER DR – POLE 1: STA. 1233+42.11, 54.6' LT



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.

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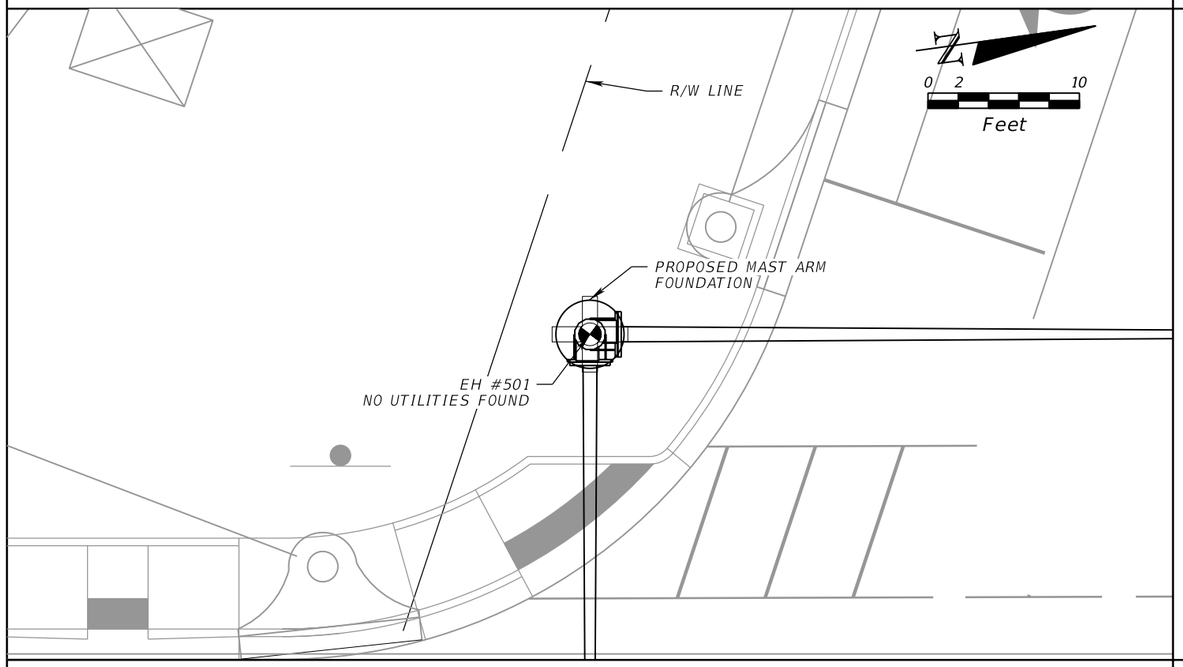
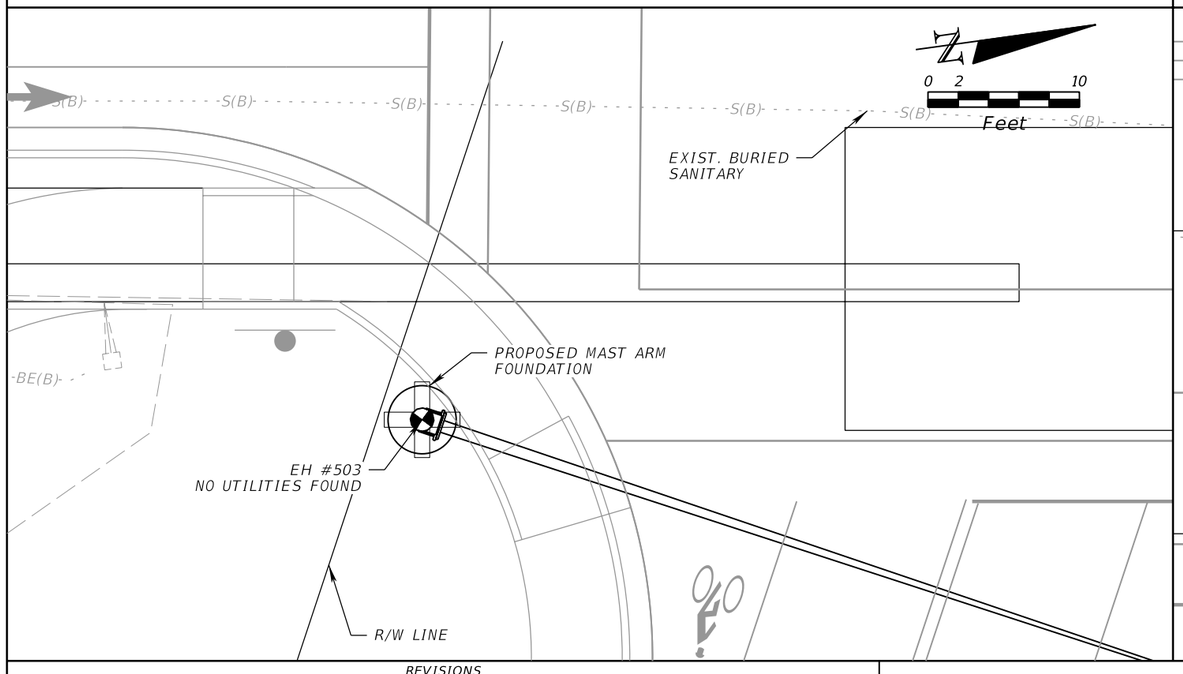
DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1

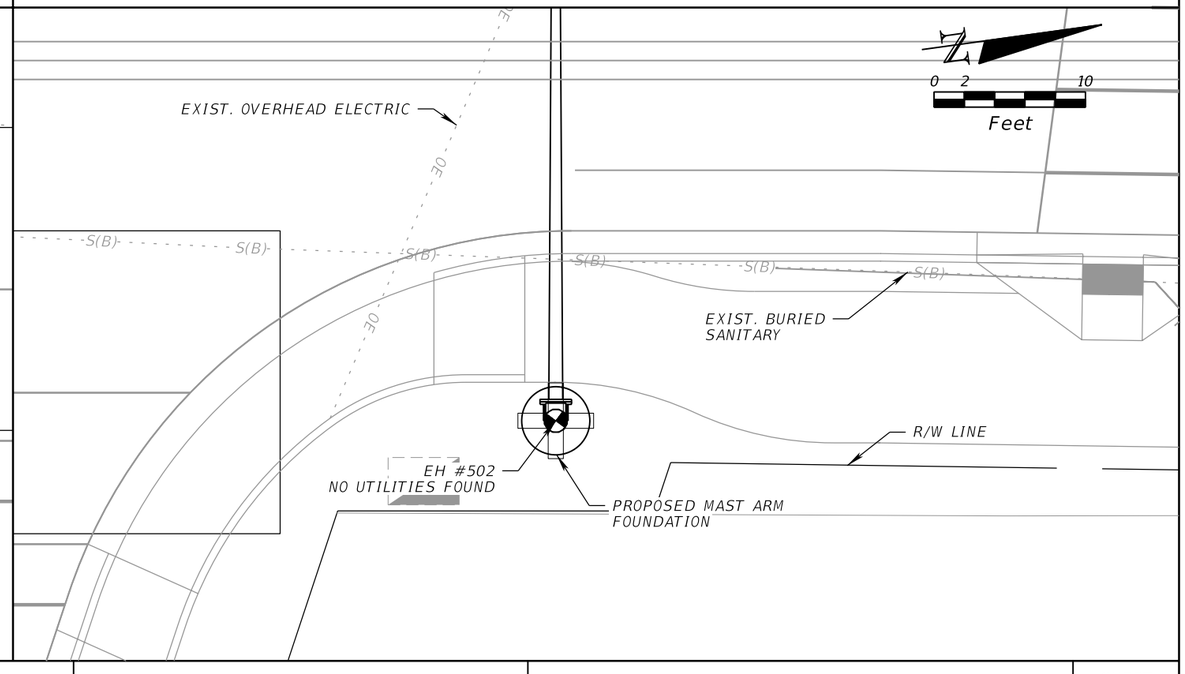
CHESTER RD AT PAGES DAIRY RD – POLE 4: STA. 1249+12.06, 65.0' LT



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.

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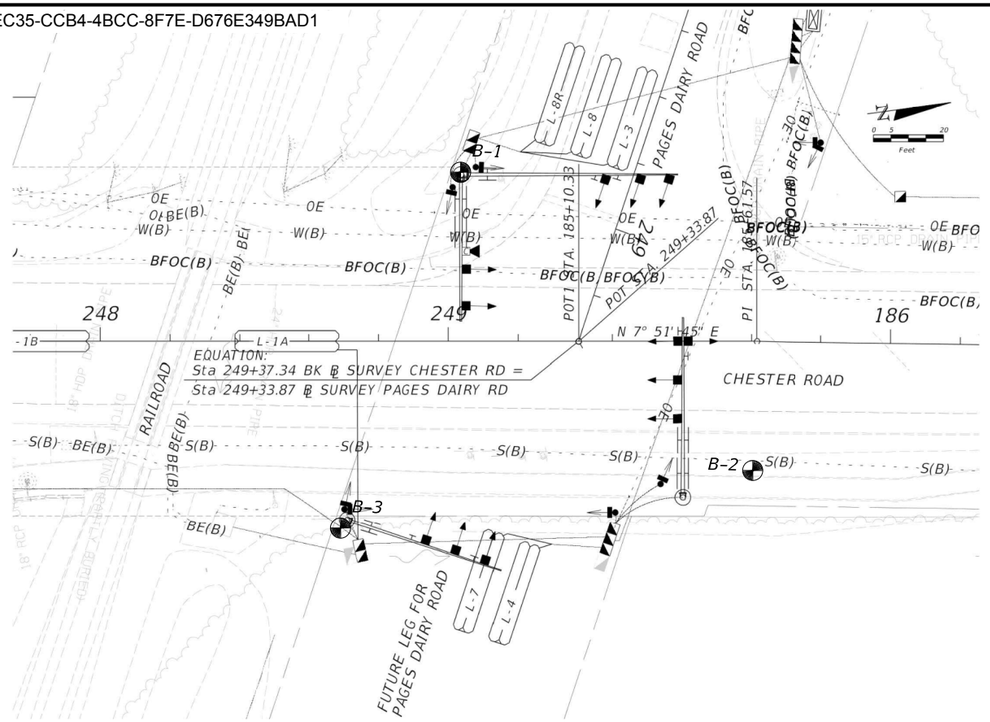
DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1



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

Depth (feet)	N	
0		
	2	VERY LOOSE TO LOOSE GRAY-BROWN FINE SAND WITH SILT AND TRACE ORGANICS WITH ROOTS (SP-SM)
5	4	
	5	LOOSE TO MEDIUM DENSE LIGHT GRAY FINE SAND (SP)
	23	MEDIUM DENSE DARK GRAY FINE SAND WITH SILT (SP-SM)
	11	
	13	
10	24	MEDIUM DENSE TO DENSE DARK BROWN FINE SAND (SP)
	41	
15		
20	10	LOOSE LIGHT BROWN (SP)
	9	
25		Boring Terminated at Depth of 25ft
30		

BOR # B-2
STA. 185+40.27 PAIGES DAIRY & CHESTER RD
OFF. 44.6' RT
DATE 10/23/2020
DRILLER B. TRUITT
HAMMER AUTO

N	
*20	LOOSE BROWN FINE SAND WITH SILT (SP-SM)
*31	
50/1"	
*50/6"	
*50/2"	LOOSE TO MEDIUM DENSE LIGHT GRAY FINE SAND (SP)
*55/2"	MC=26.7 -200=2.4
*35	
*35	
9	
22	MEDIUM DENSE DARK BROWN FINE SAND WITH SILT (SP-SM)
11	
22	
53	VERY DENSE DARK BROWN FINE SAND WITH SILT AND HARDPAN (SP-SM)
20	MEDIUM DENSE RED-BROWN FINE SAND (SP)
4	LOOSE LIGHT BROWN FINE SAND WITH CLAY (SP-SC)
	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

Depth (feet)	N	
0		
	*5	LOOSE BROWN FINE SAND WITH SILT (SP-SM)
	*10	
	*35	
	*35	
	*40	
	*35	
5	*35	
	50/4"	
	55/2"	MEDIUM DENSE LIGHT GRAY FINE SAND (SP)
	11	
	16	
	12	MEDIUM DENSE DARK BROWN FINE SAND WITH SILT (SP-SM)
10	20	
	73	VERY DENSE DARK RED BROWN FINE SAND WITH SILT AND HARDPAN (SP-SM)
	11	MEDIUM DENSE RED-BROWN FINE SAND WITH SILT (SP-SM)
15		MC=31.5 -200=5.7
	3	VERY LOOSE TO LOOSE BROWN TO GRAY BROWN FINE SAND WITH CLAY (SP-SC)
20		
	10	
25		GNE
		Boring Terminated at Depth of 30ft
30		

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

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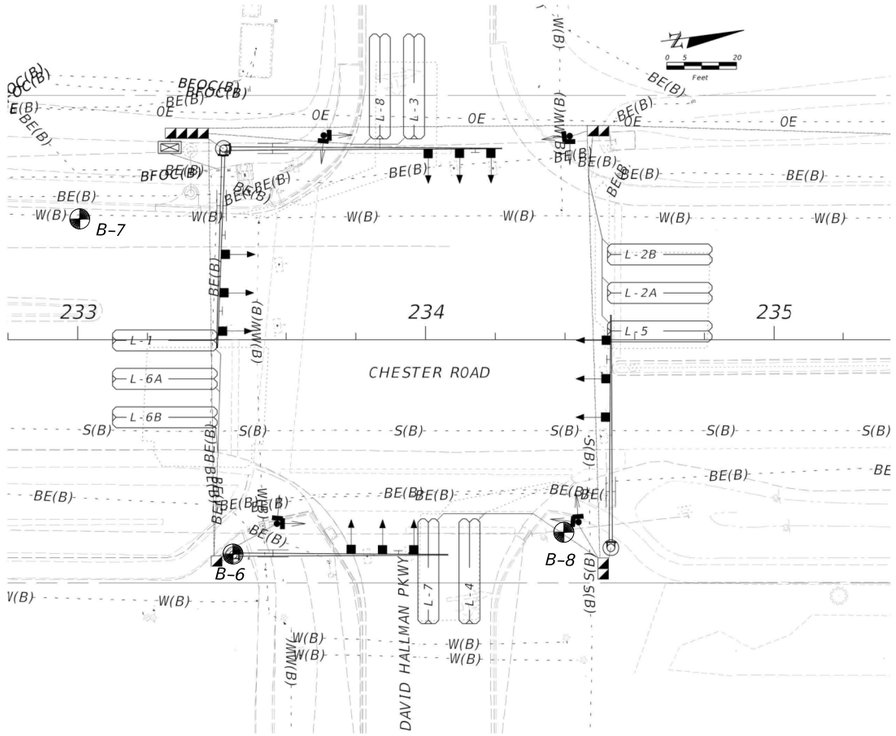


WITH RELATIVE DENSITY AND CONSISTENCY OF SOIL
USING AUTOMATIC HAMMER

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

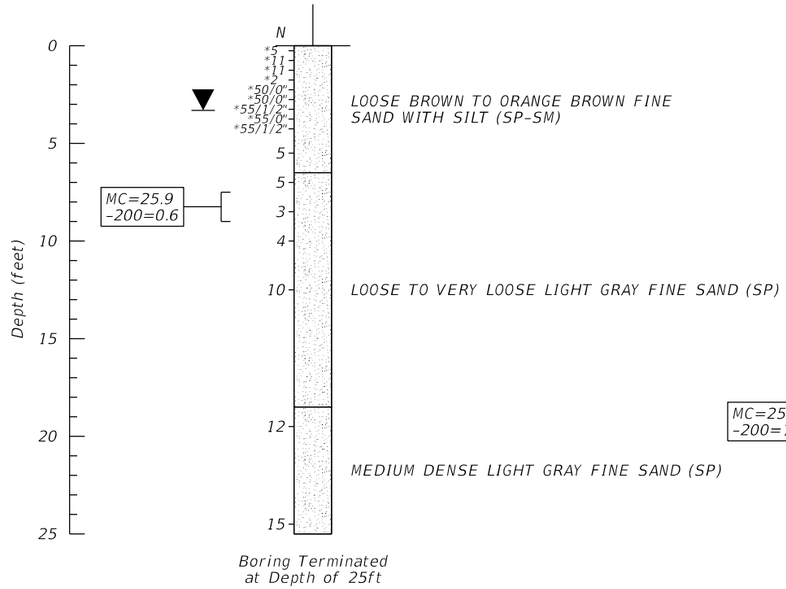
NOTES

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

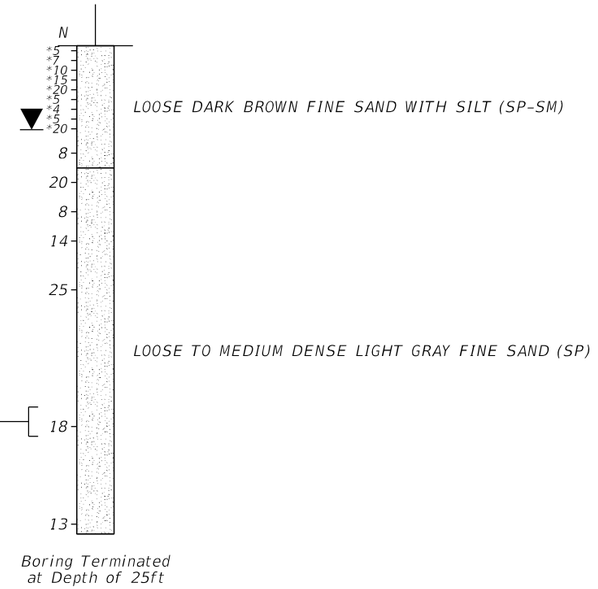
- Sand
- SPT Boring Location
- N N-Value
- Water Level at Time of Drilling
- -200 Percent Passing No. 200 US Standard Sieve
- MC Natural Moisture Content
- LL Liquid Limit
- * Static Cone Penetrometer Readings
- WOH Weight of Hammer

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



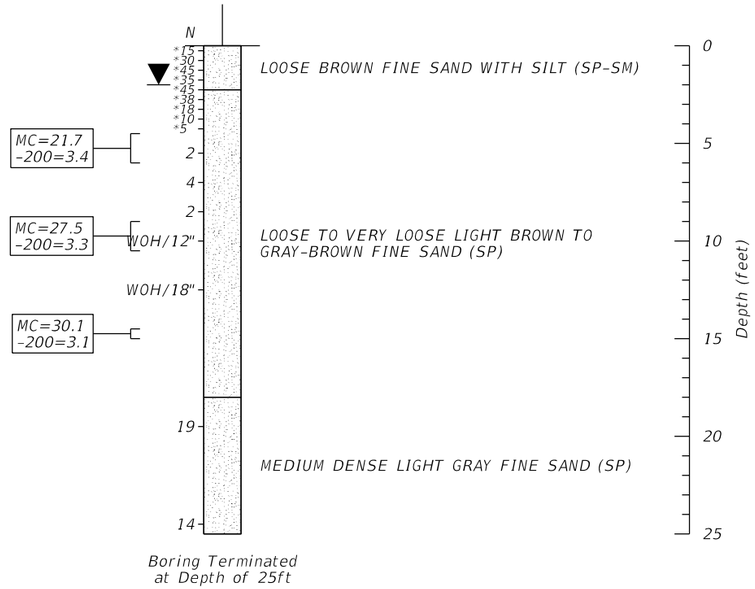
Boring Terminated at Depth of 25ft

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

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: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1

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					

Designed By : BKN 10-23
Checked By : DM 10-23
Drawn By : BKN 10-23
Checked By : DM 10-23

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

DUANE MERRELL, P.E.
P.E. LICENSE NUMBER 36843
POND & COMPANY
1200 RIVERPLACE BLVD. STE 600
JACKSONVILLE, FL 32207

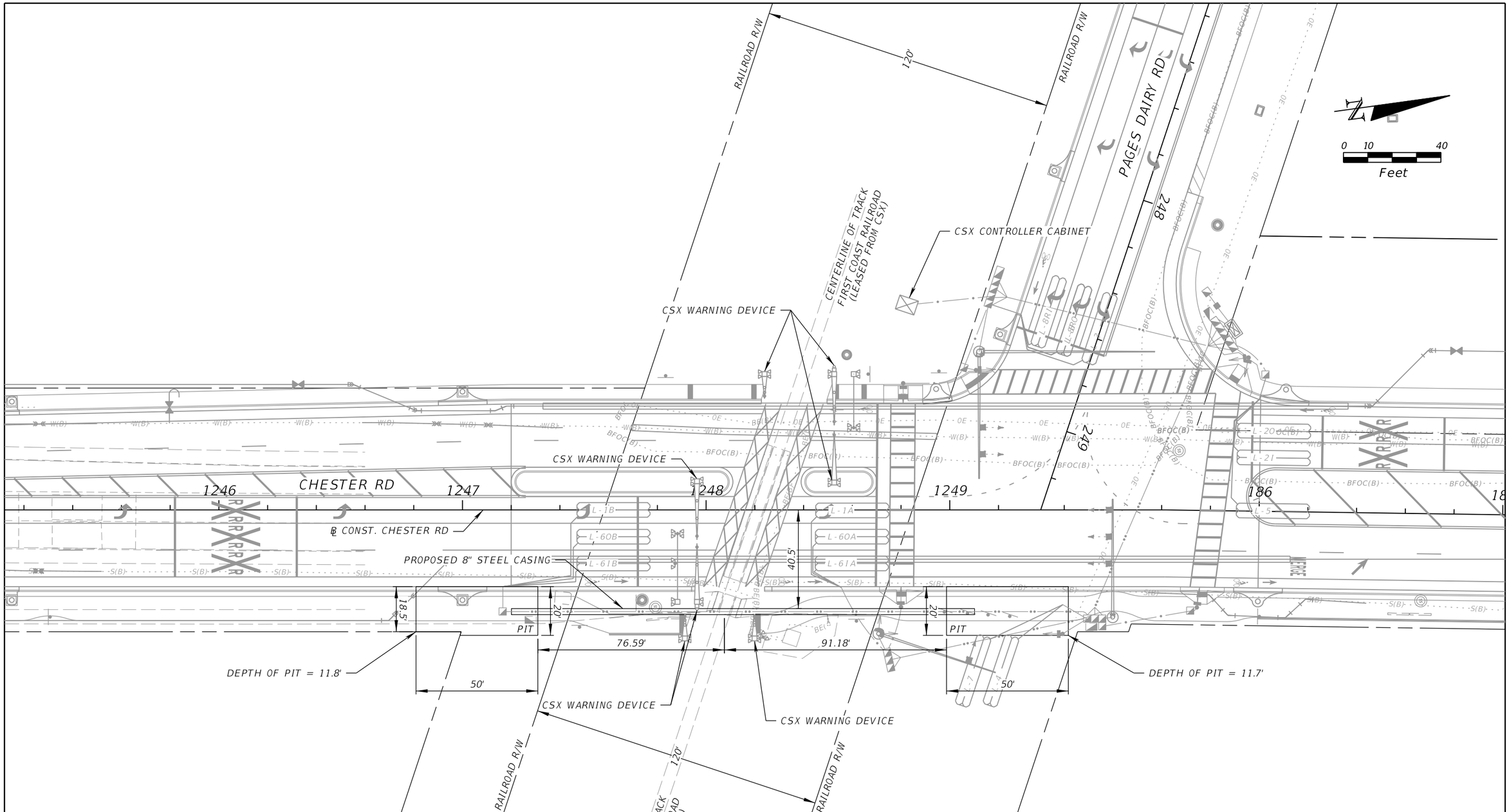
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CHESTER ROAD	NASSAU	

MAST ARM ASSEMBLIES DATA TABLE

SHEET NO. T-23

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1



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

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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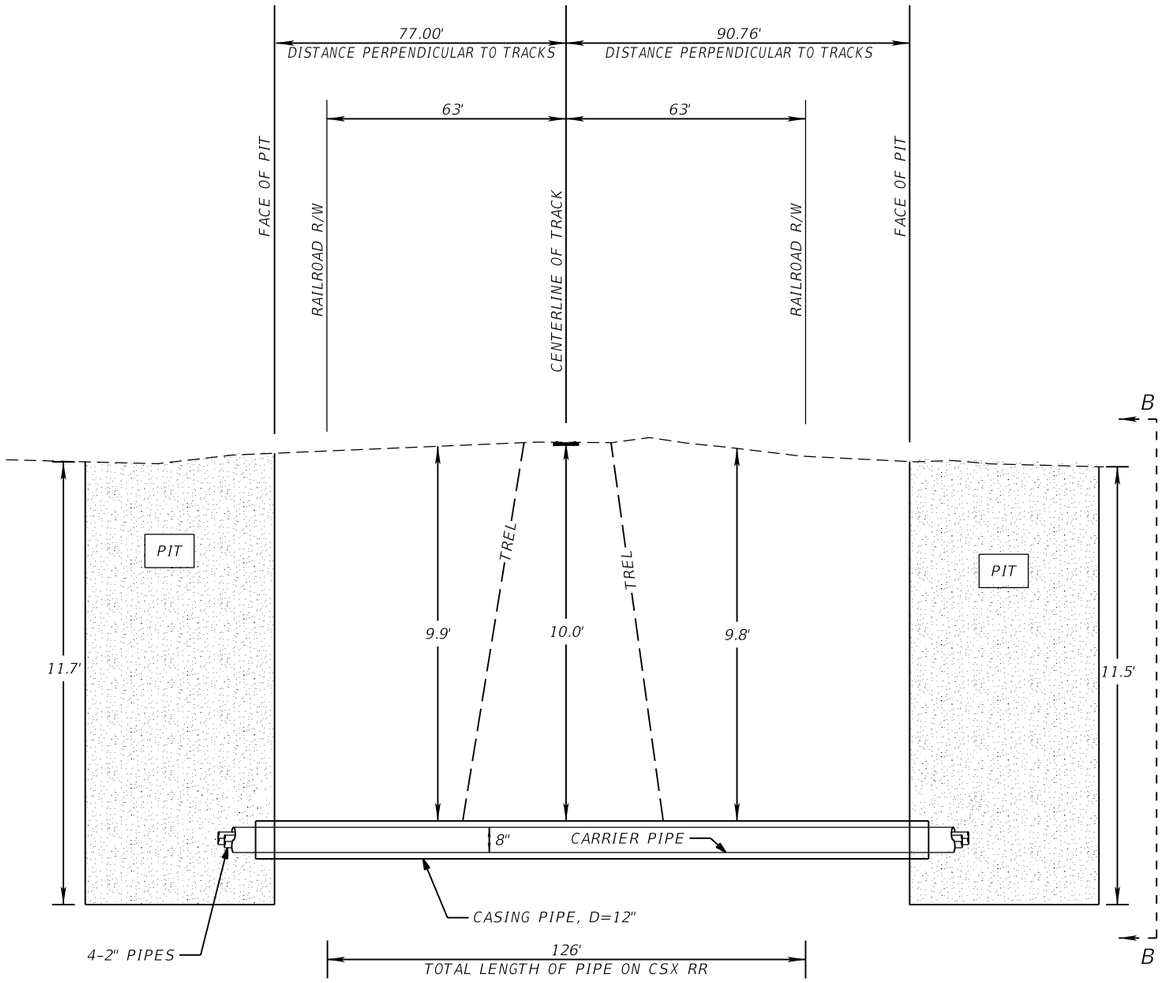

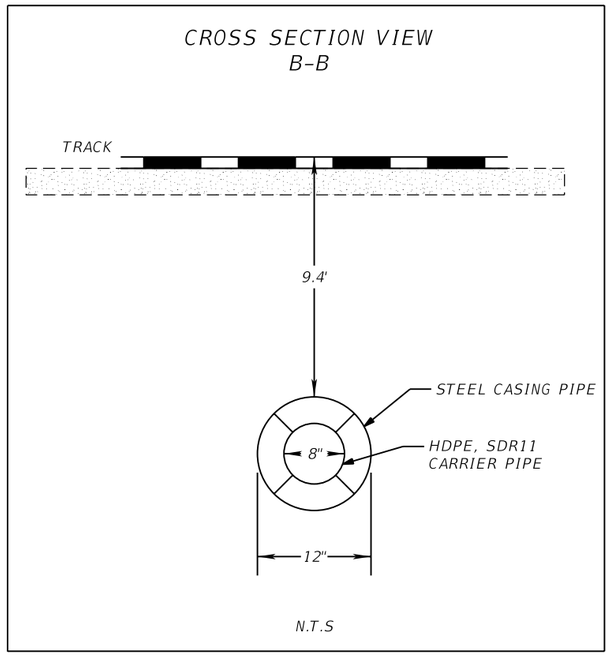

GENERAL NOTES:

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: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1

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 #:

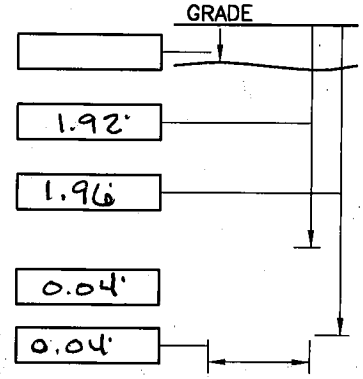
HOLE #: WH-S01

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

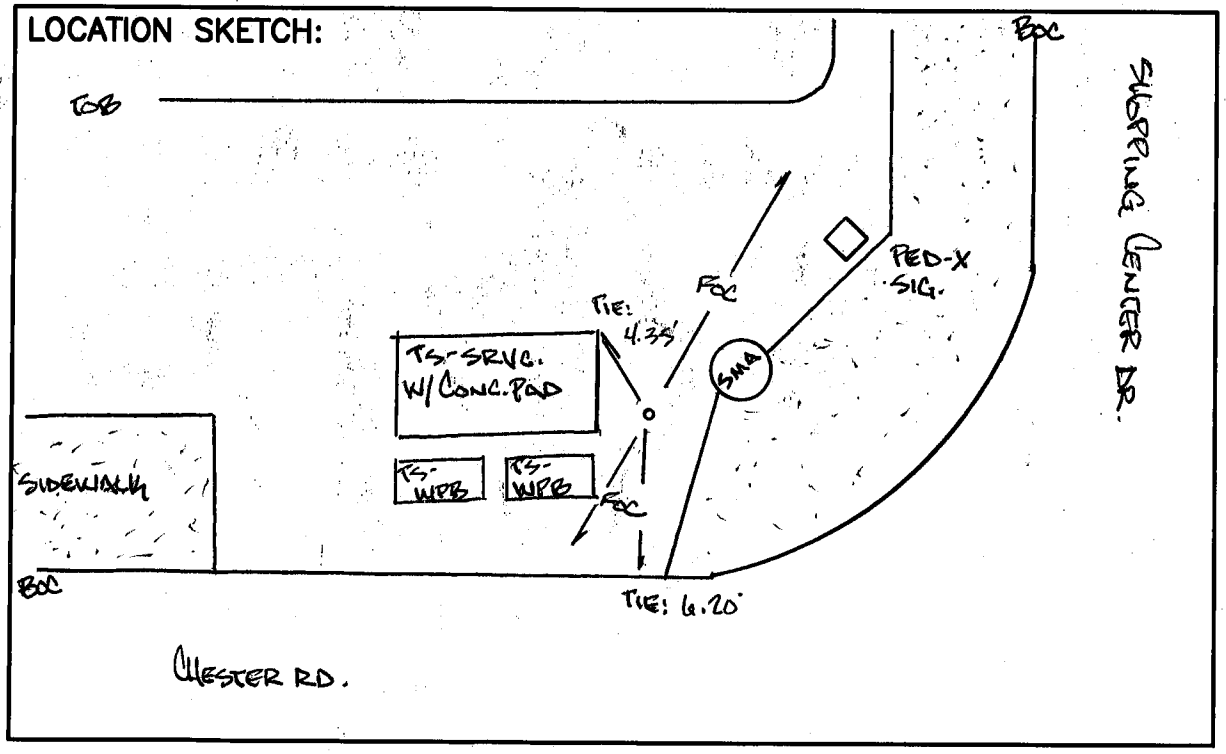
POLE #:

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
**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 501

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VVH 501

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VVH 501

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DRMP
ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS

VACUUM EXCAVATION RECORD

CAMERA #: 4

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 #:

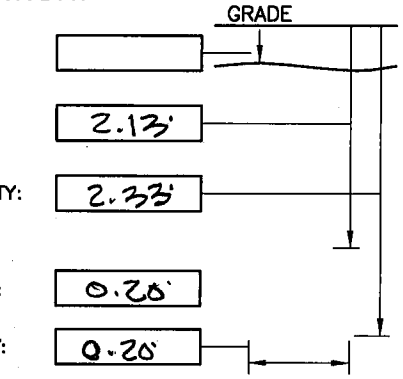
HOLE #: VH#502

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]

UTILITY/CONTRACTOR LOCATOR CONTACT: F. DOT

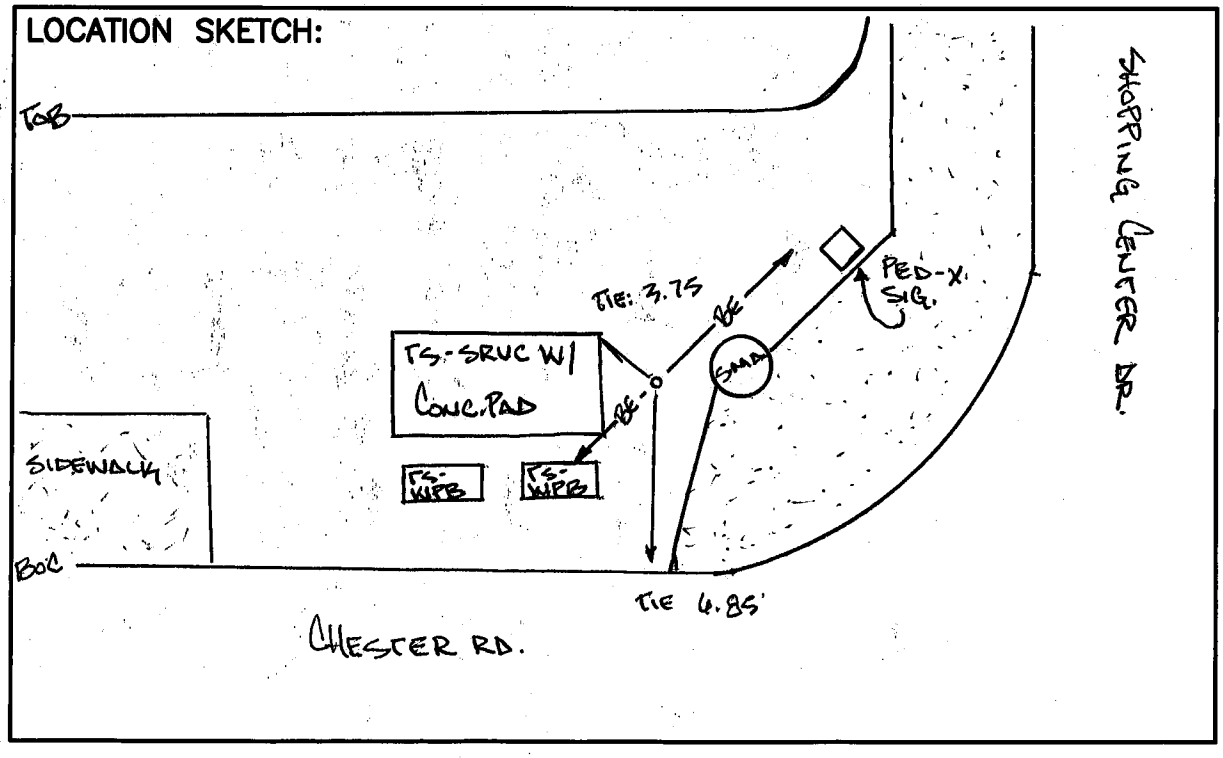
POLE #: SIG.#1

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 SRUC.
**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 502

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VVH 502

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DRMP
ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS

VACUUM EXCAVATION RECORD

CAMERA #: 4

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 #:

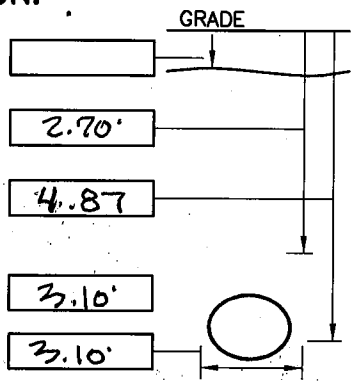
HOLE #: VVH#503

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:

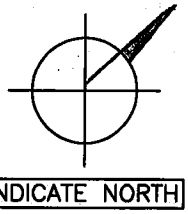
POLE #: SIG#1

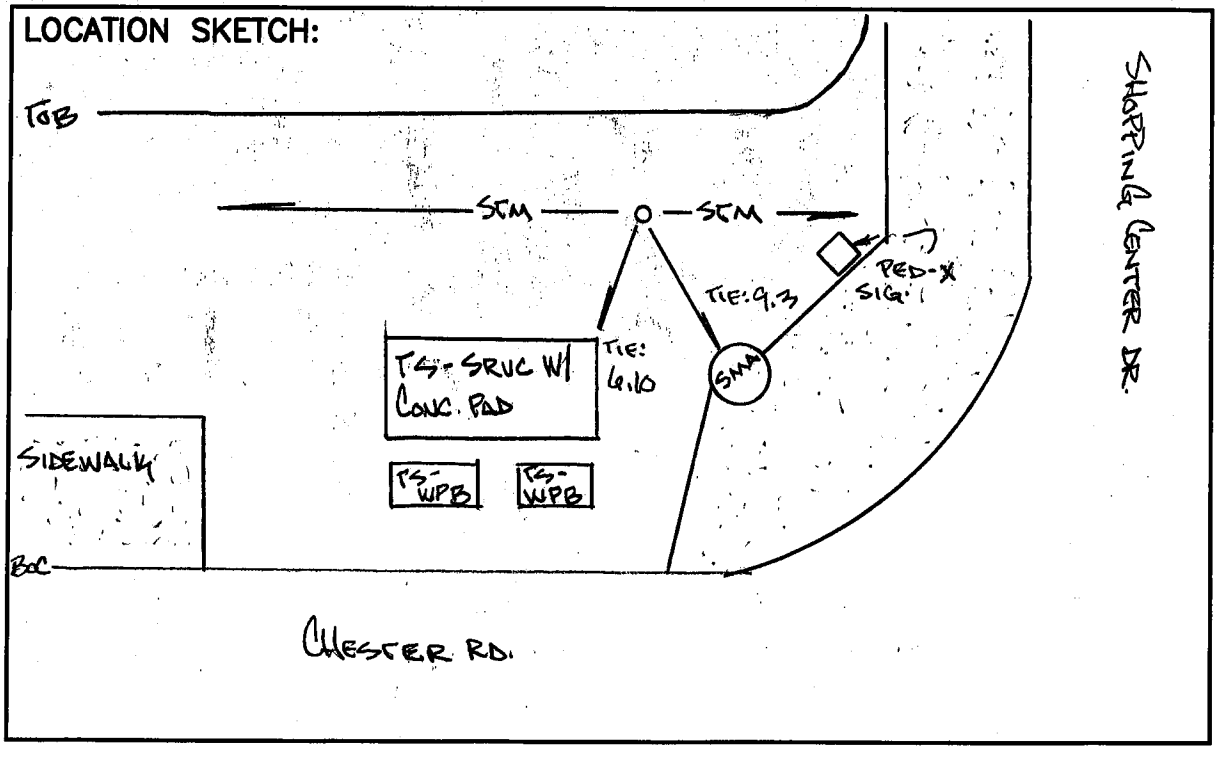
EH #: S06

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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VVH 503

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VVH 503

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1

DRMP
ENGINEERS• SURVEYORS• PLANNERS• SCIENTISTS

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 #:

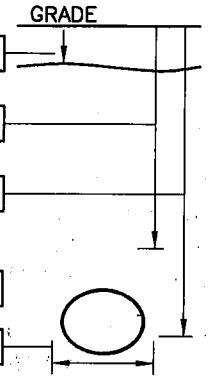
HOLE #: VVH*504

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

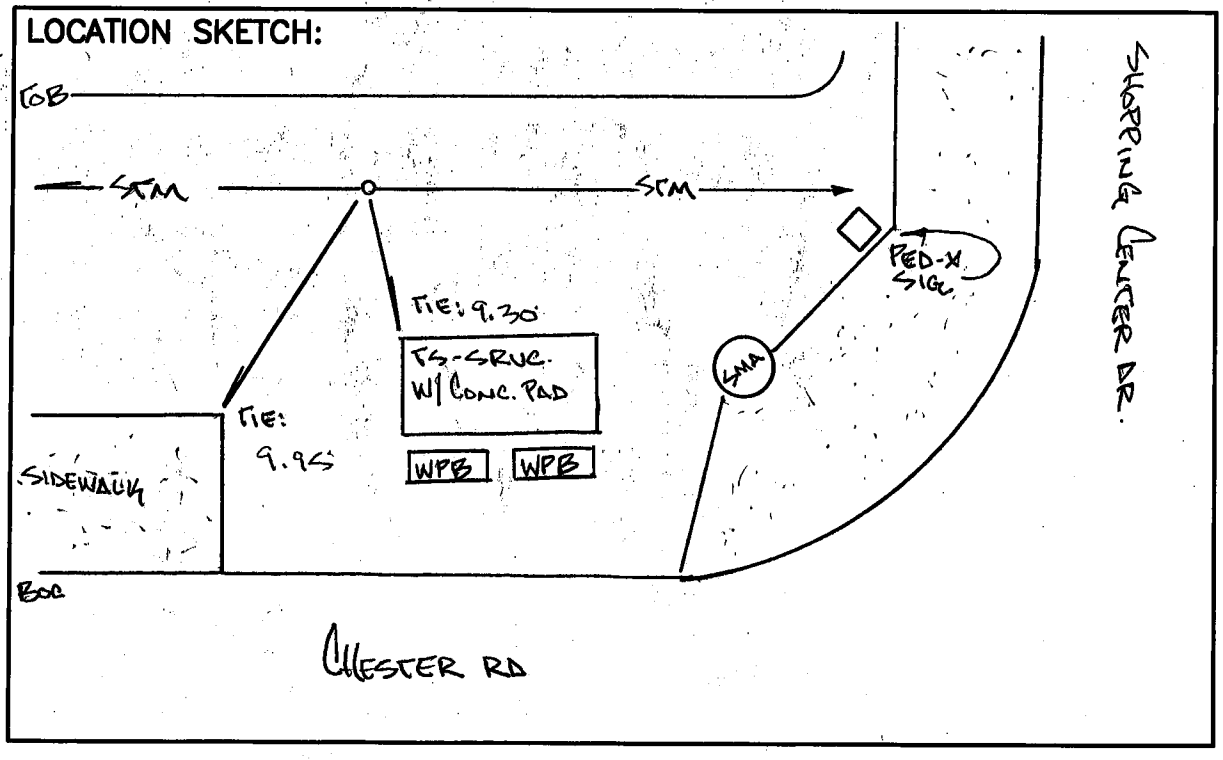
STATE PLANE ZONE: FL E

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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CHESTER RD.

DRMP # 16-0210.001

VVH 504

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VVH 504

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DRMP
ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS

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 #:

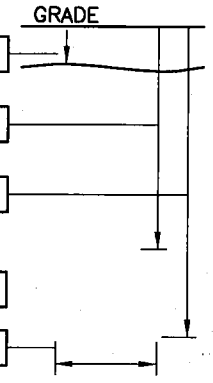
HOLE #: VVH*505

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

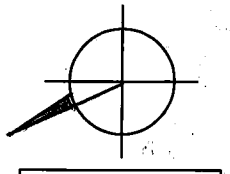
POLE #: S16 3

EH #: 507

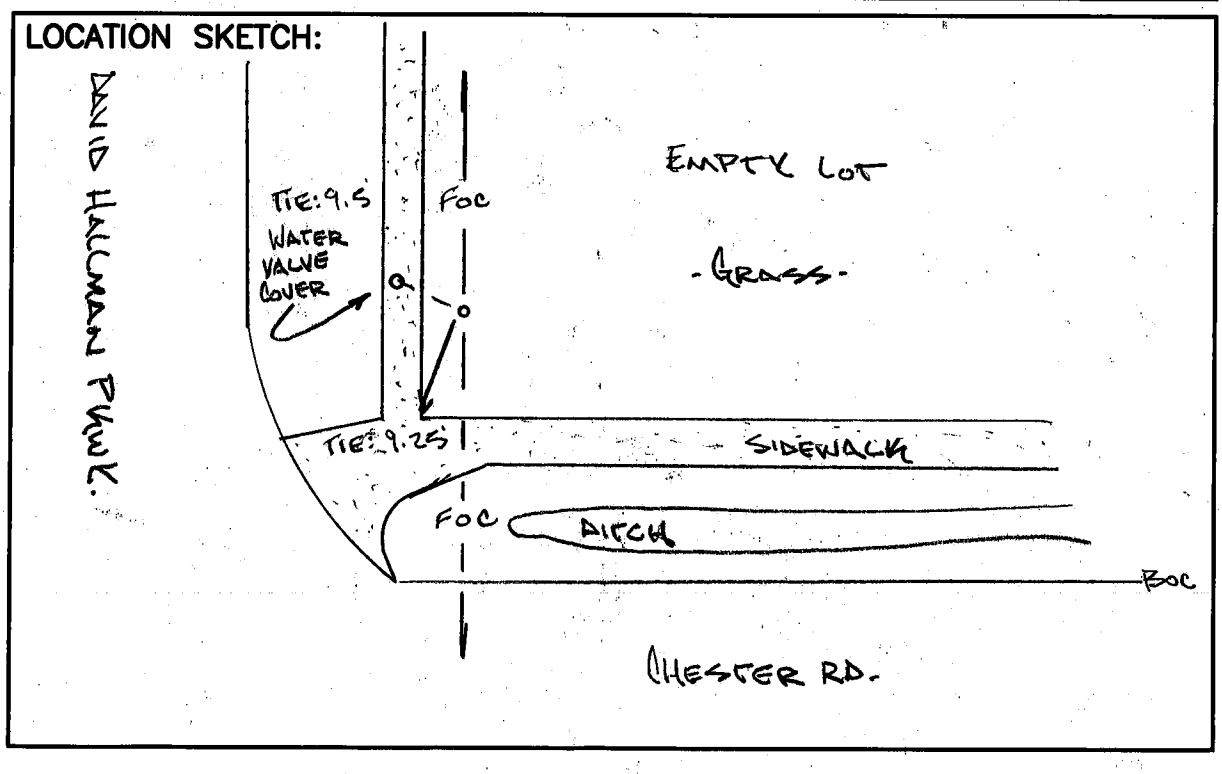
TYPE OF UTILITY	MATERIAL
E - ELECTRICAL	1 - STEEL
G - GAS	2 - PVC (POLYVINYL CHLORIDE)
BT - BURIED TELEPHONE	3 - DIP (DUCTILE IRON PIPE)
(FOC) - FIBER OPTIC CABLE	4 - VCP (VITRIFIED CLAY PIPE)
W - WATER	(5) - PEP (POLYETHYLENE PIPE)
SAN - SANITARY SEWER	6 - AC(ASBESTOS C./TRANSITE)
STM - STORM SEWER	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.

DRMP # 16-0210.001

VVH 505

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VVH 505

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ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS

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.#:

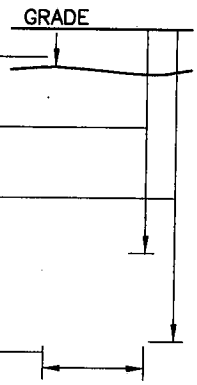
HOLE#: VVH 506

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

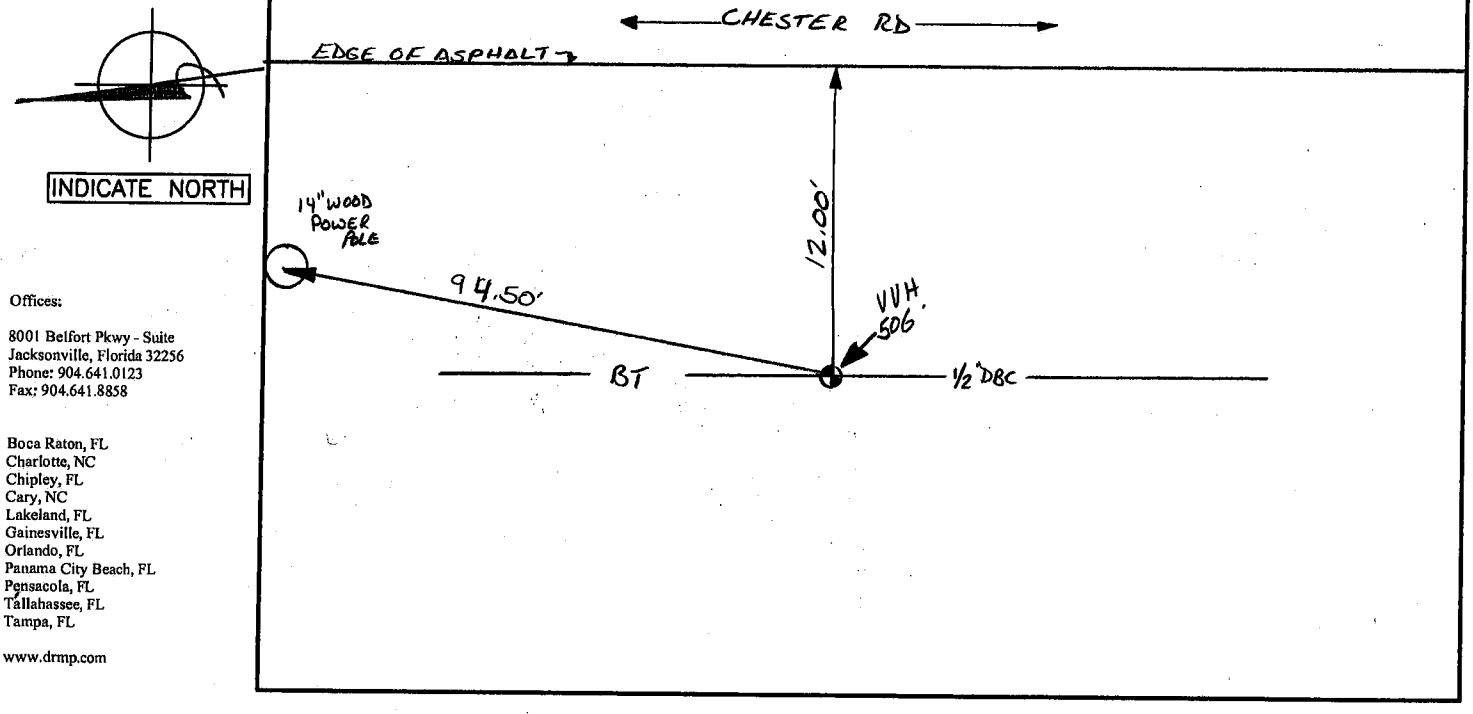
POLE #: N/A

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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CHESTER RD.

DRMP # 16-0210.001

VVH 506

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DRMP
ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS

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.#:

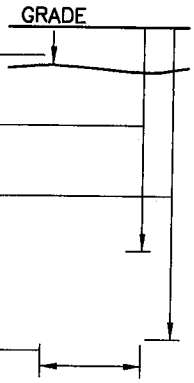
HOLE#: WH 507

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

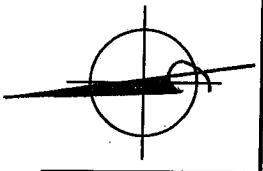
POLE #: N/A

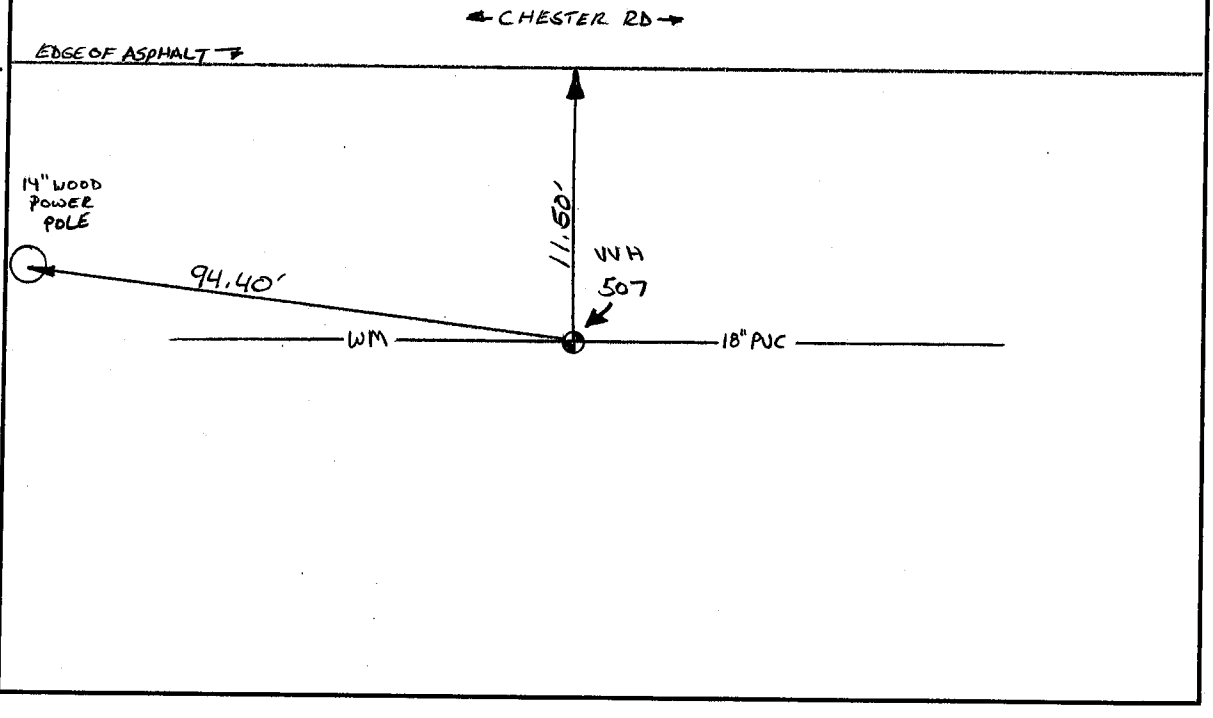
EH #: N/A

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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CHESTER RD.

DRMP # 16-0210.001

VVH 507

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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.#:

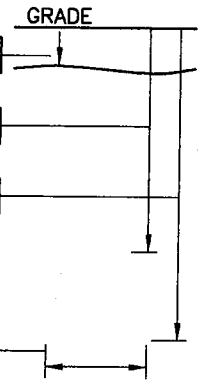
HOLE#: VVH 508

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

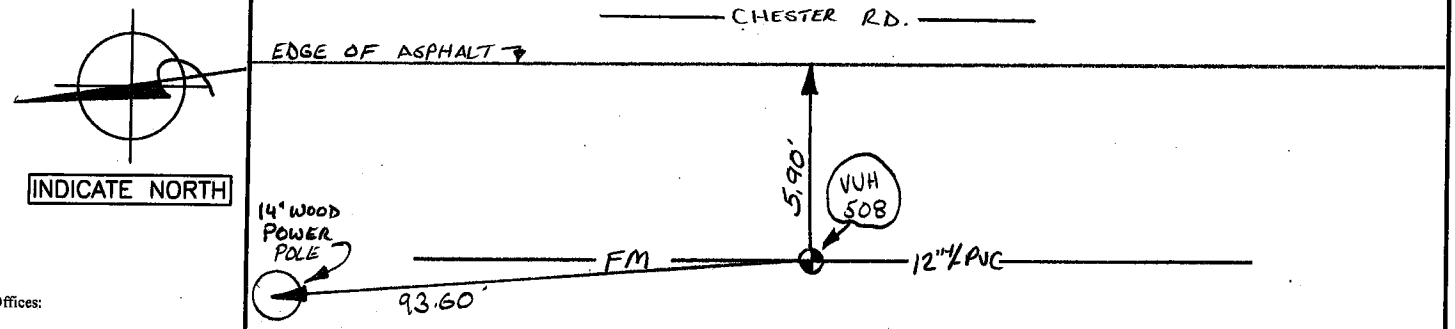
POLE #: N/A

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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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.#:

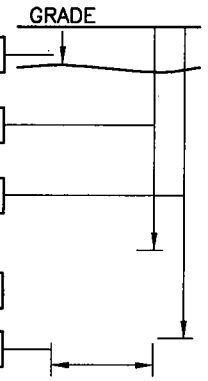
HOLE#: VUH 509

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: AT&T

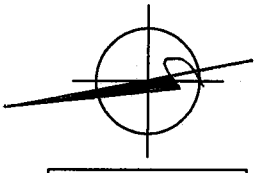
POLE #: N/A

EH #: N/A

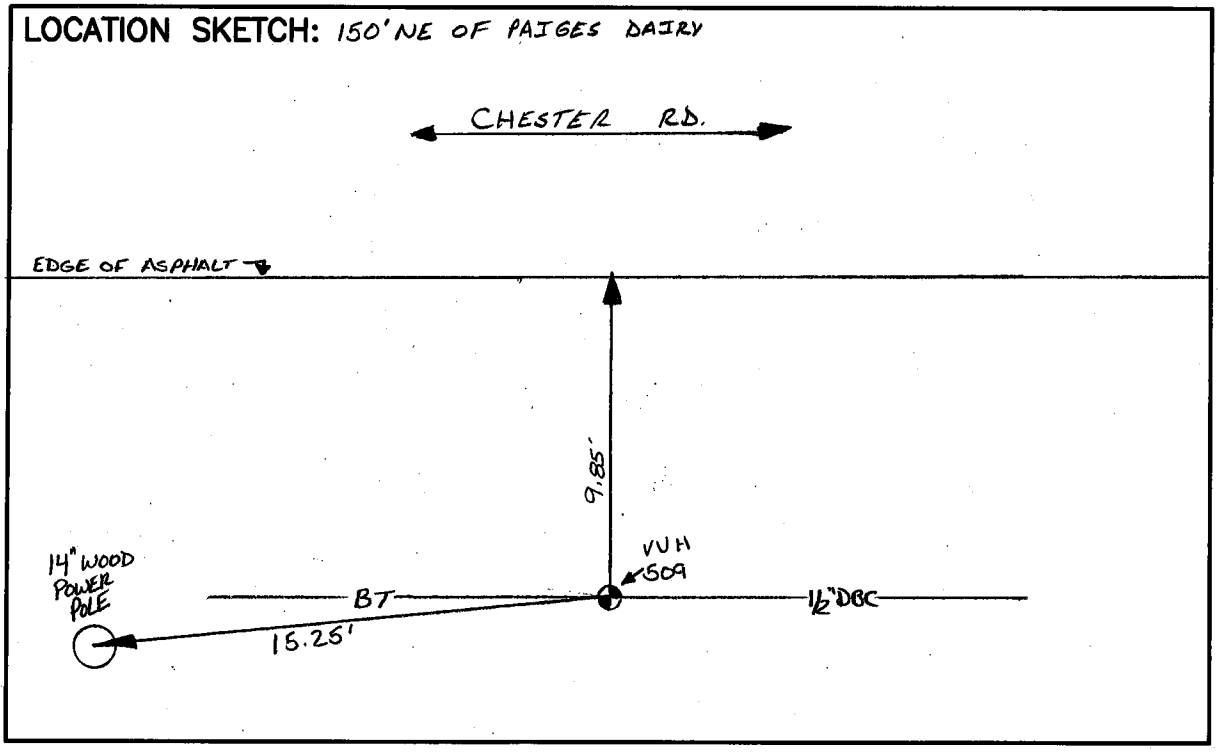
TYPE OF UTILITY	MATERIAL
E - ELECTRICAL	1 - STEEL
G - GAS	2 - PVC (POLYVINYL CHLORIDE)
(BT) - BURIED TELEPHONE	3 - DIP (DUCTILE IRON PIPE)
FOC - FIBER OPTIC CABLE	4 - VCP (VITRIFIED CLAY PIPE)
W - WATER	5 - PEP (POLYETHYLENE PIPE)
SAN - SANITARY SEWER	6 - AC(ASBESTOS C./TRANSITE)
STM - STORM SEWER	7 - 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: 150' NE OF PAIGES DAIRY



INDICATE NORTH



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CHESTER RD.

DRMP # 16-0210.001

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.#:

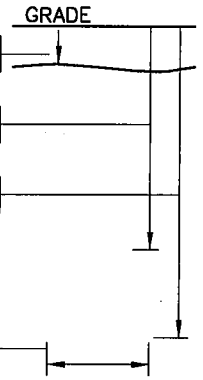
HOLE#: VUH 510

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] 91.42	28.77'	[redacted]	SW — NE

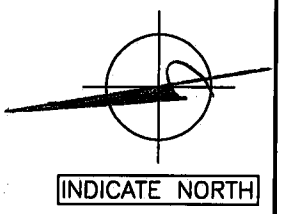
NORTHING:	EASTING:	STATE PLANE ZONE:

UTILITY OWNER/CONTRACTOR LOCATOR CONTACT:	POLE #:	EH #:
JEA	N/A	N/A

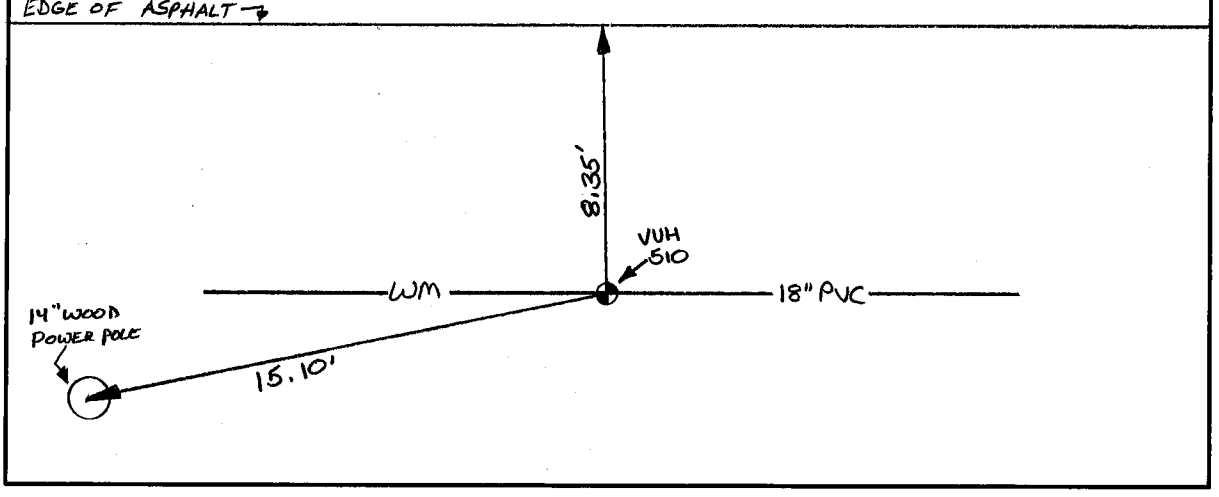
TYPE OF UTILITY	MATERIAL
E - ELECTRICAL	1 - STEEL
G - GAS	(2) - PVC (POLYVINYL CHLORIDE)
BT - BURIED TELEPHONE	3 - DIP (DUCTILE IRON PIPE)
FOC - FIBER OPTIC CABLE	4 - VCP (VITRIFIED CLAY PIPE)
(W) - WATER	5 - PEP (POLYETHYLENE PIPE)
SAN - SANITARY SEWER	6 - AC(ASBESTOS C./TRANSITE)
STM - STORM SEWER	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



INDICATE NORTH



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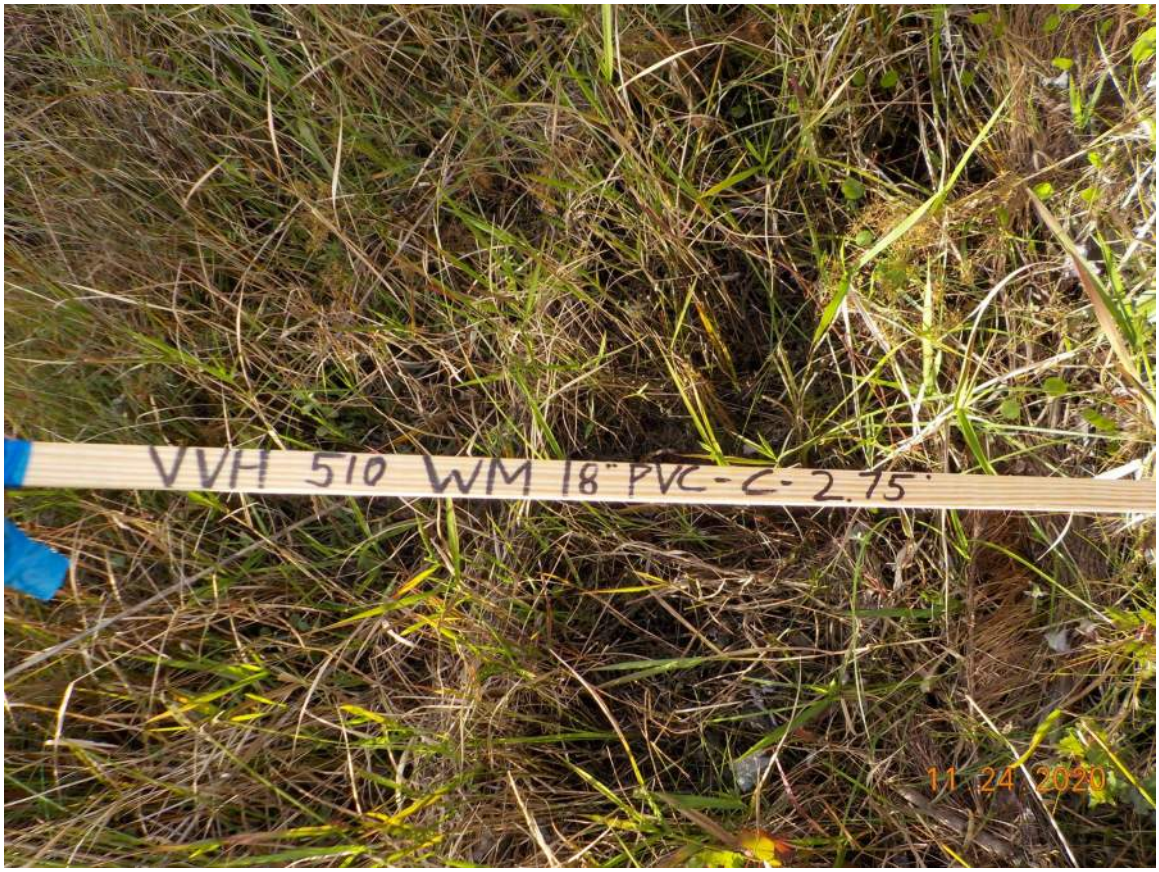
CHESTER RD.

DRMP # 16-0210.001

VVH 510

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1



VVH 510

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VVH 510

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DRMP
ENGINEERS• SURVEYORS• PLANNERS• SCIENTISTS

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.#:

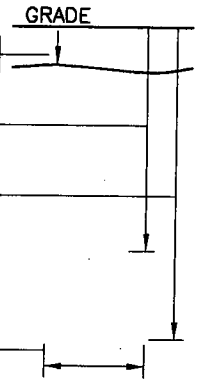
HOLE#: VH511

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

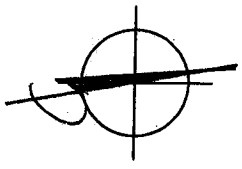
POLE #: N/A

EH #: N/A

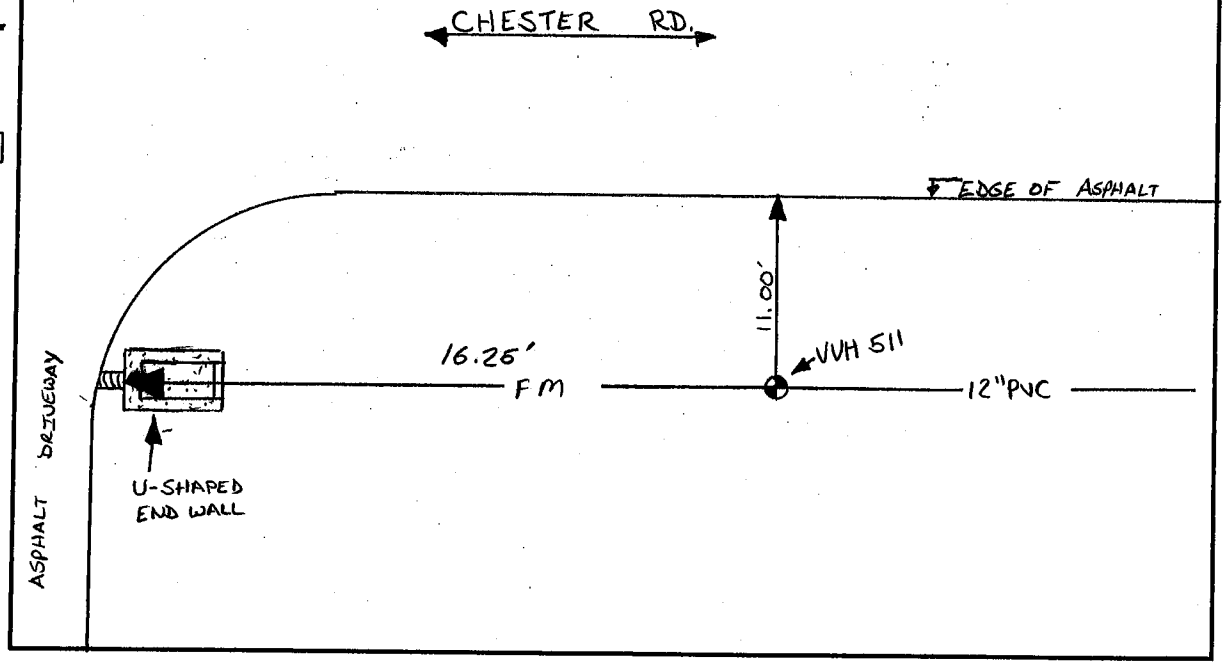
TYPE OF UTILITY	MATERIAL
E - ELECTRICAL	1 - STEEL
G - GAS	(2) PVC (POLYVINYL CHLORIDE)
BT - BURIED TELEPHONE	3 - DIP (DUCTILE IRON PIPE)
FOC - FIBER OPTIC CABLE	4 - VCP (VITRIFIED CLAY PIPE)
W - WATER	5 - PEP (POLYETHYLENE PIPE)
SAN - SANITARY SEWER	6 - AC(ASBESTOS C./TRANSITE)
STM - STORM SEWER	7 - 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.



INDICATE NORTH



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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.#:

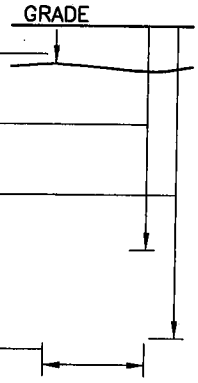
HOLE#: VVH 512

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.[redacted]

APPROX. STATION:	OFFSET DISTANCE:	OFFSET DIRECTION:	UTILITY DIRECTION:
[redacted]30.71	21.87'	RT	SW—NE

NORTHING:	EASTING:	STATE PLANE ZONE:

UTILITY OWNER/CONTRACTOR LOCATOR CONTACT: COMCAST

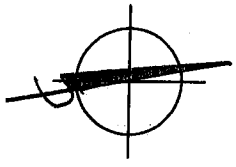
POLE #: N/A

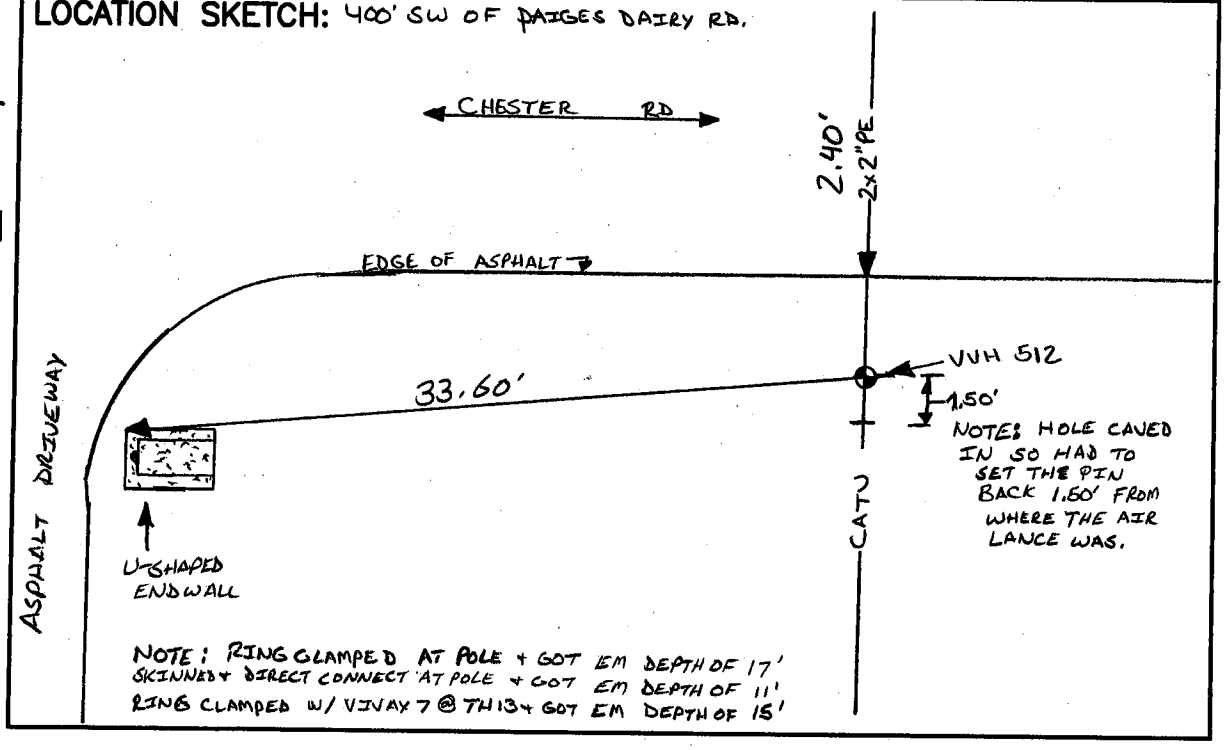
EH #: N/A

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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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.#:

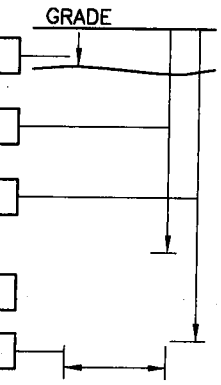
HOLE#: VVH 513

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

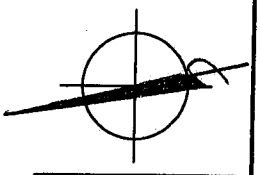
APPROX. STATION:	OFFSET DISTANCE:	OFFSET DIRECTION:	UTILITY DIRECTION:
[redacted]			SW-NE

[redacted]	EASTING:	STATE PLANE ZONE:
[redacted]		POLE #: N/A
		EH #: N/A

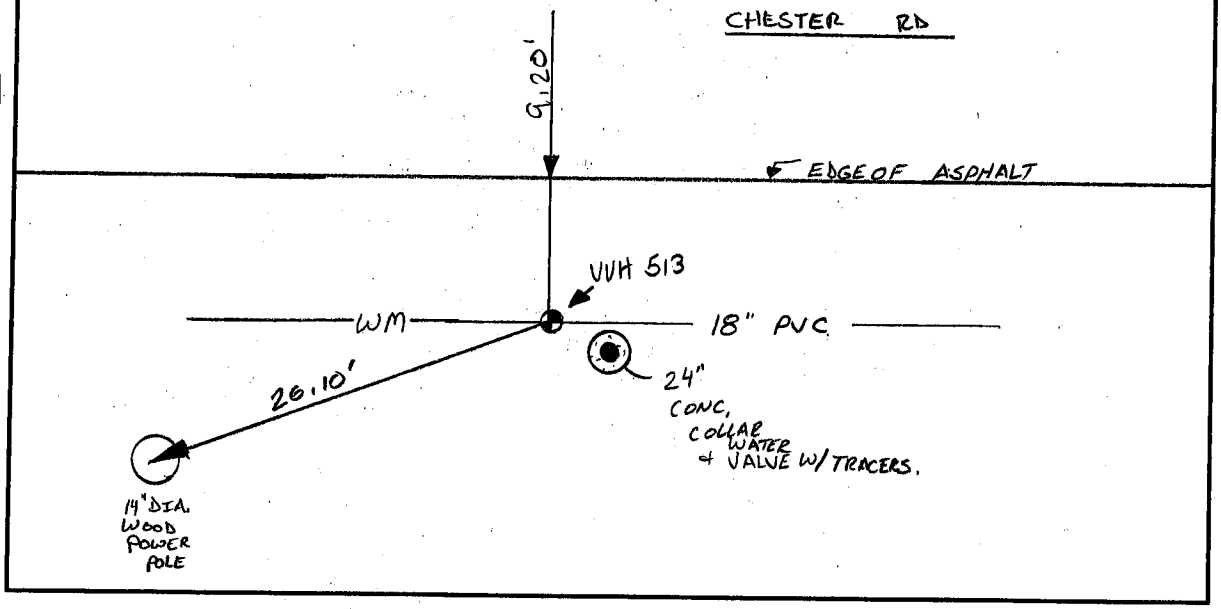
TYPE OF UTILITY	MATERIAL
E - ELECTRICAL	1 - STEEL
G - GAS	(2) PVC (POLYVINYL CHLORIDE)
BT - BURIED TELEPHONE	3 - DIP (DUCTILE IRON PIPE)
FOC - FIBER OPTIC CABLE	4 - VCP (VITRIFIED CLAY PIPE)
(W) - WATER	5 - PEP (POLYETHYLENE PIPE)
SAN - SANITARY SEWER	6 - AC(ASBESTOS C./TRANSITE)
STM - STORM SEWER	7 - 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.



INDICATE NORTH



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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.#:

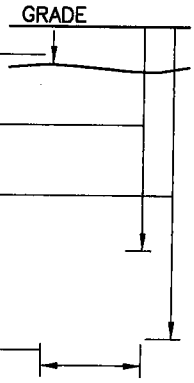
HOLE#: UVH 514

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

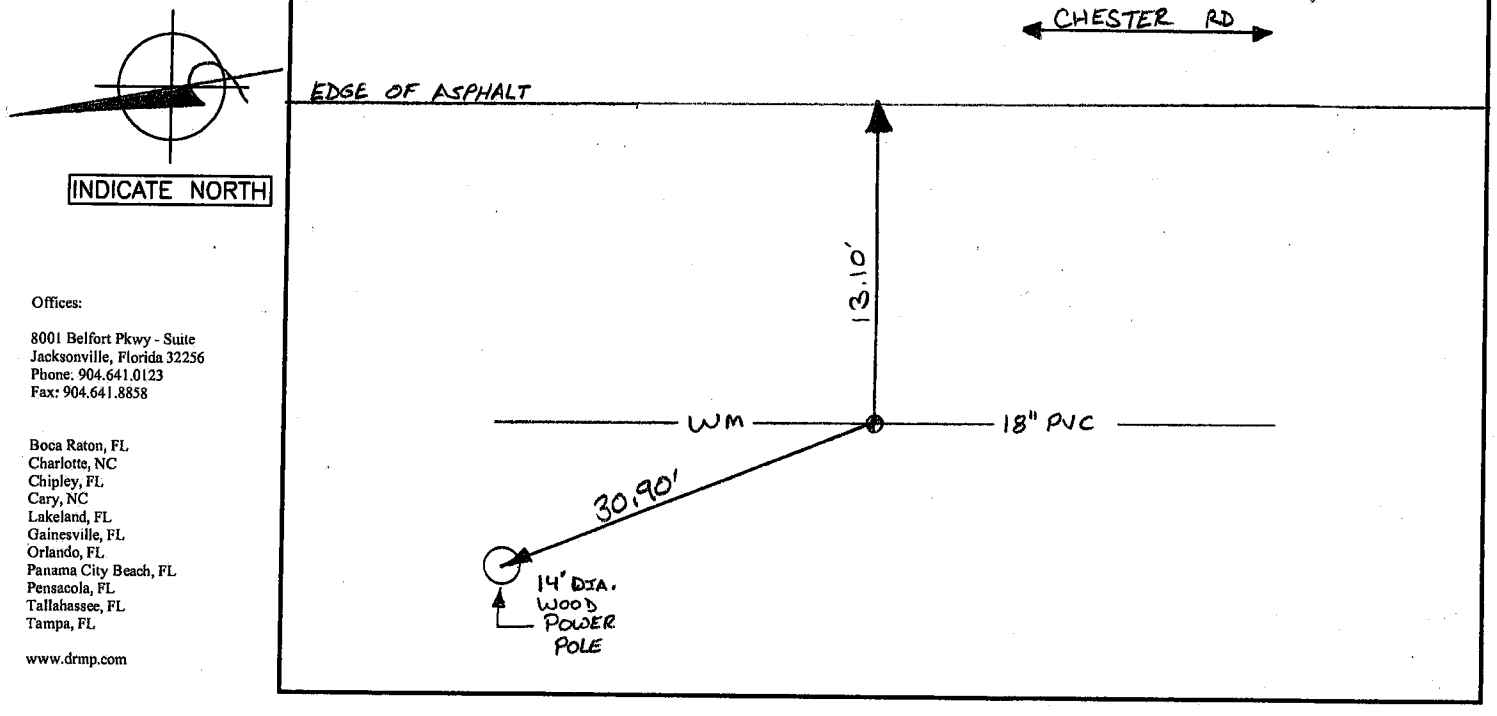
POLE #: N/A

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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VACUUM EXCAVATION RECORD

CAMERA #: 5 | CREW: HIRES, JASMIN, O'ROURKE

PROJECT: CHESTER RD | DATE: 11/30/20 | DRMP#: 16-0210.001

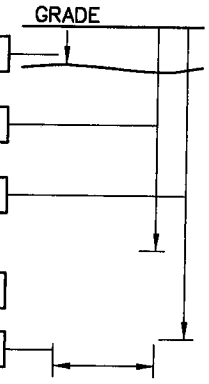
CITY/COUNTY: NASSAU | ONE-CALL #: 329000666 | F.P.N.#:

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

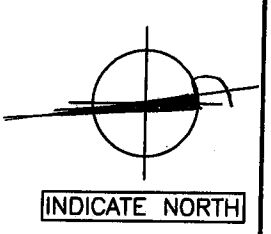
NORTHING:	EASTING:	STATE PLANE ZONE:

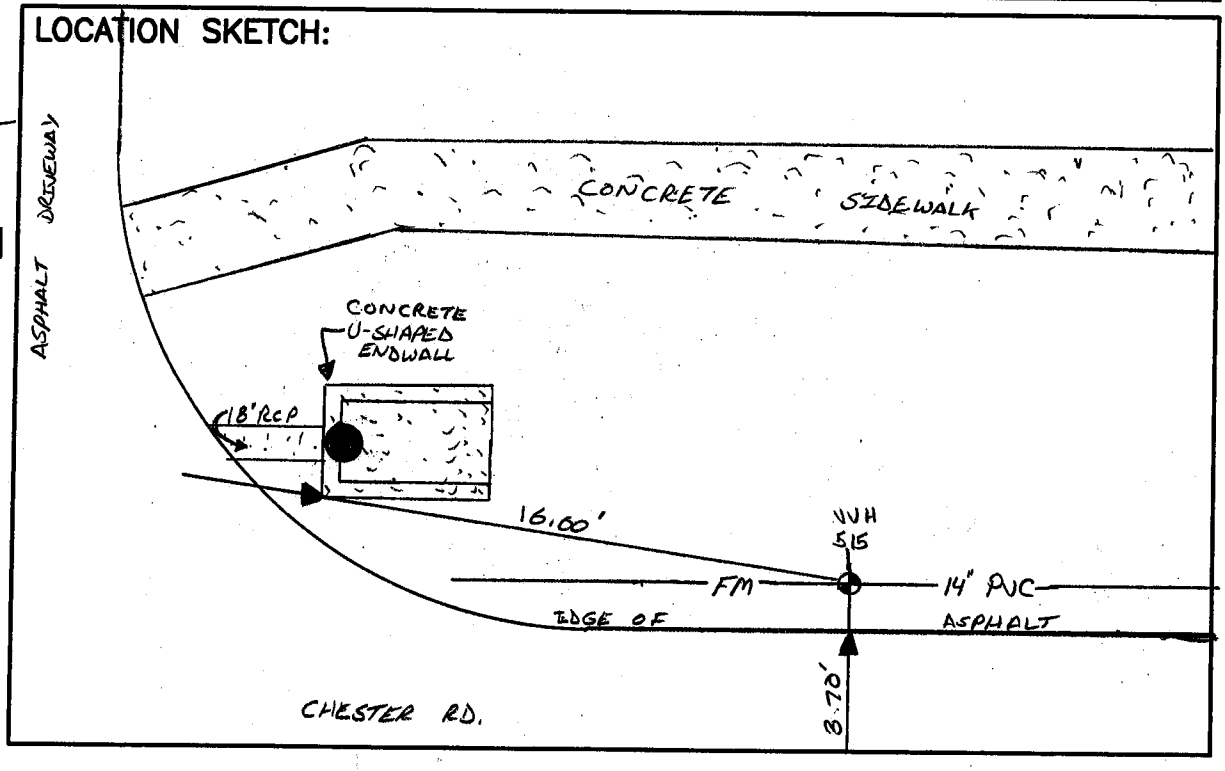
UTILITY OWNER/CONTRACTOR LOCATOR CONTACT: JEA | POLE #: N/A | EH #: TH8

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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VVH 515

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VVH 515

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DRMP
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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

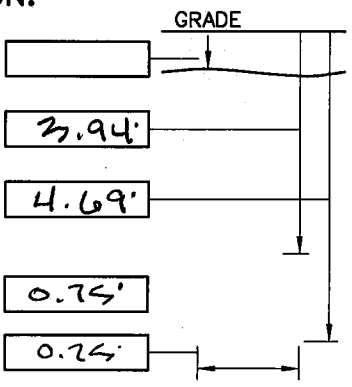
HOLE #: VVH#S16

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:

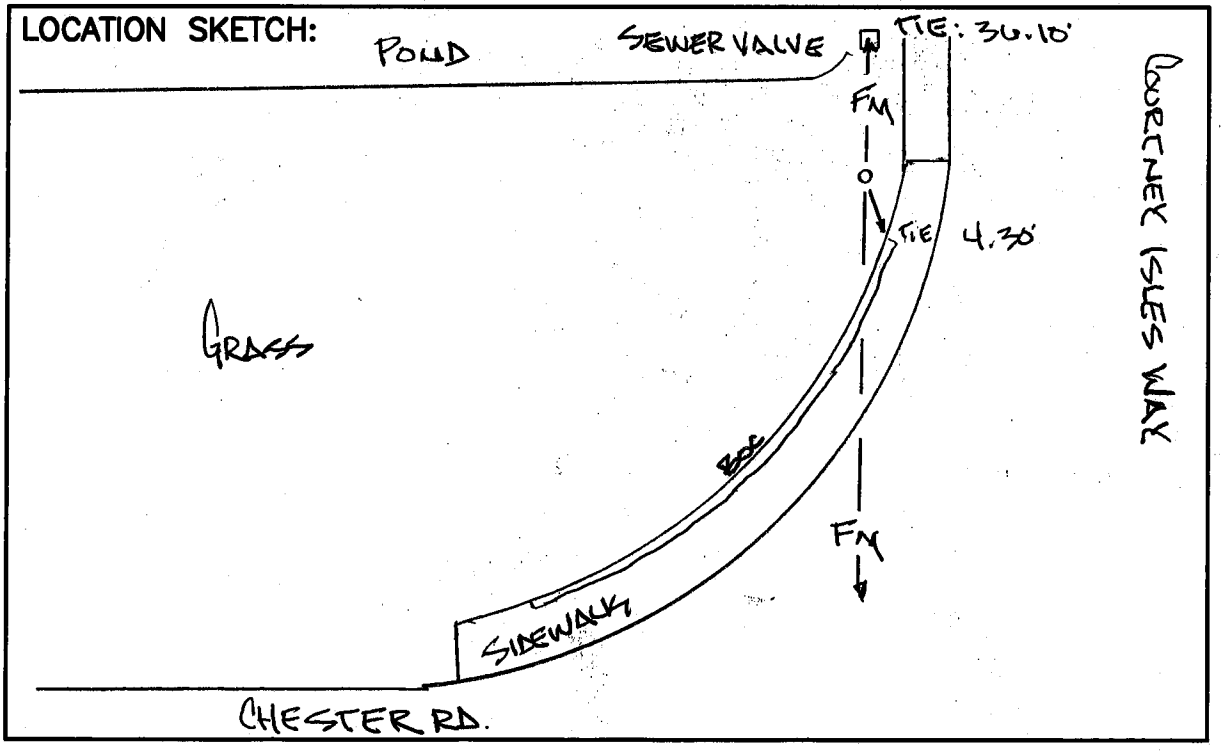
POLE #: TH-4

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:



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CHESTER RD.

DRMP # 16-0210.001

VVH 516

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VVH 516

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VVH 516

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VACUUM EXCAVATION RECORD

CAMERA #: 4

PROJECT: CHESTER RD.

DATE: 11.24.2020

CREW: I. DUNHAM, F. GRAB

CITY/COUNTY: NASSAU

ONE-CALL #: 329000666

FPN/DRMP #: 16.0210.001

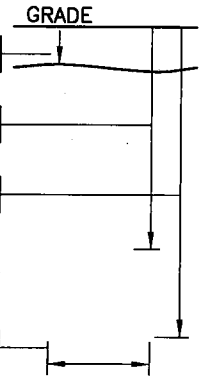
HOLE #: VH 512

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:

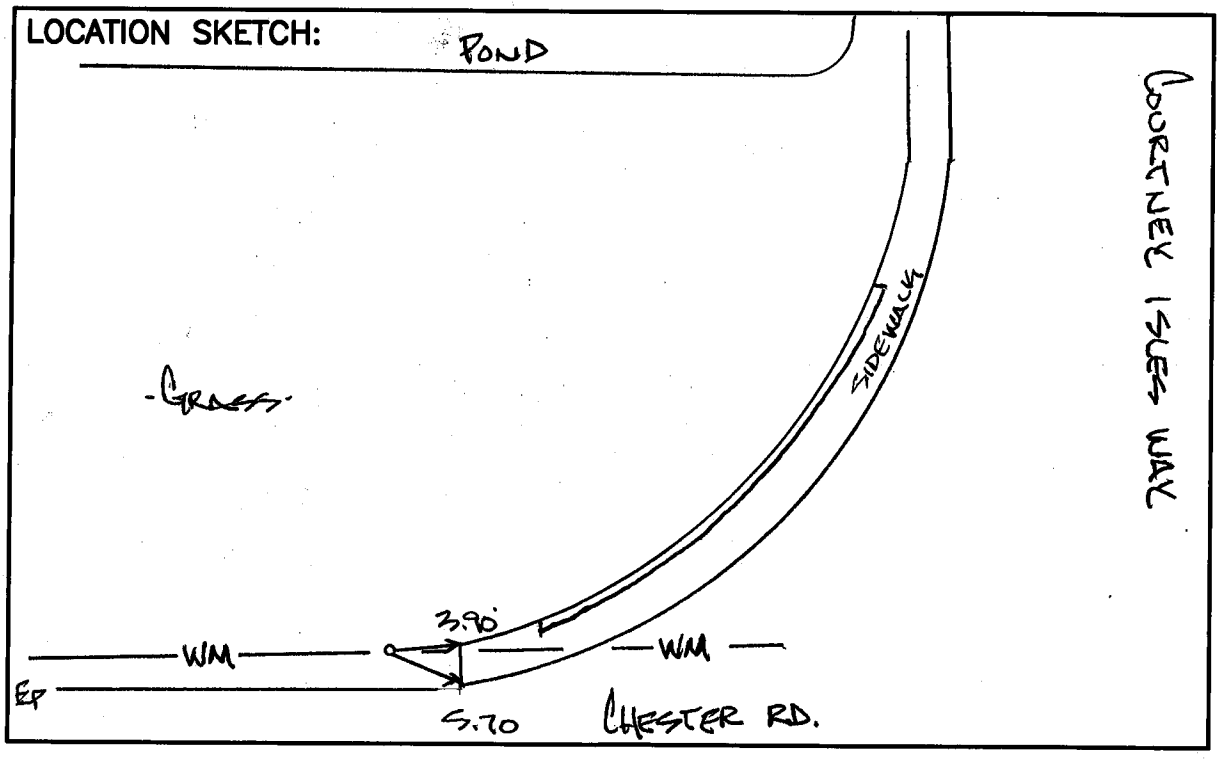
POLE #: TH-3

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:



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CHESTER RD.

DRMP # 16-0210.001

VVH 517

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VVH 517

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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

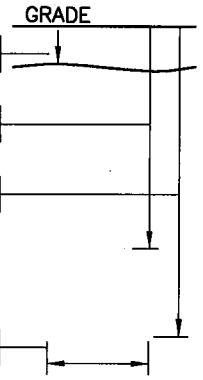
HOLE #: VUH SIB

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

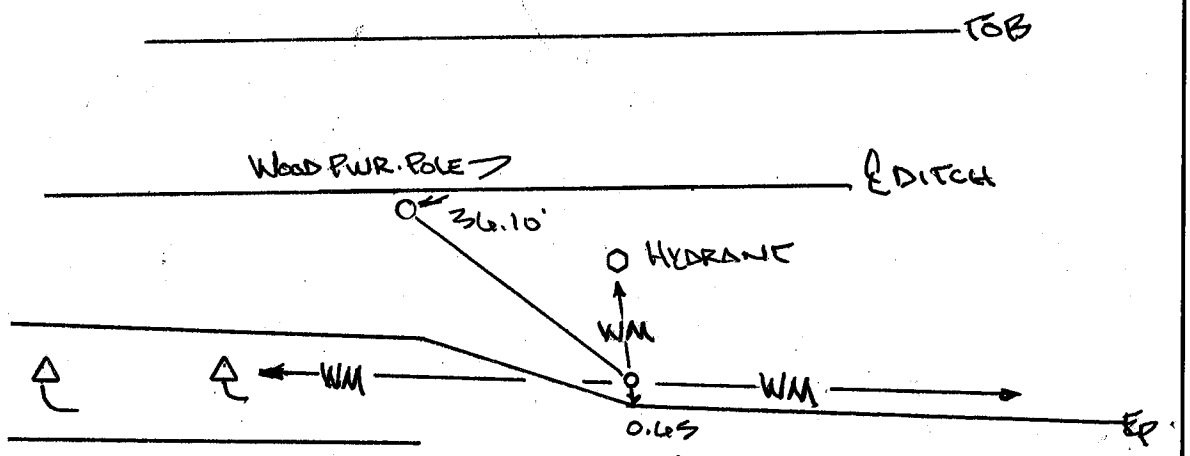
EH #:

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:



NOTE: ELEVATION WAS TAKEN FROM TO OF "TEE" TO HYDRANT PIN WAS SET 1' NORTH OF TEE

CHESTER RD.

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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

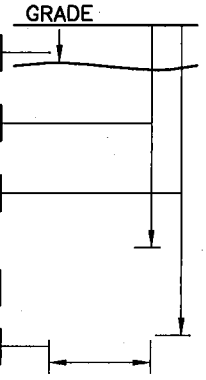
HOLE #: VVH S19

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

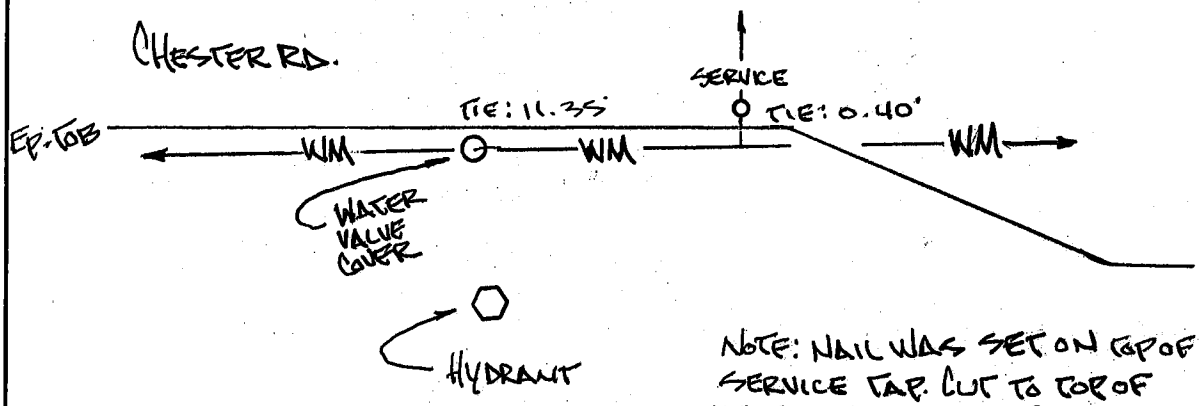
EH #:

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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DRMP # 16-0210.001

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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 #: 3290006666

FPN/DRMP #: 16-0210.001

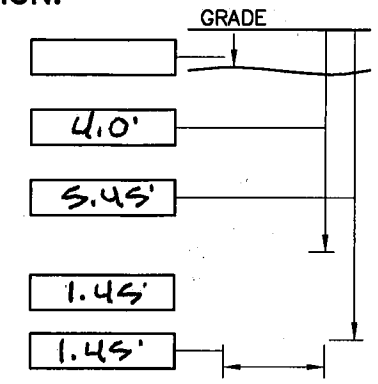
HOLE #: VVH S20

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:

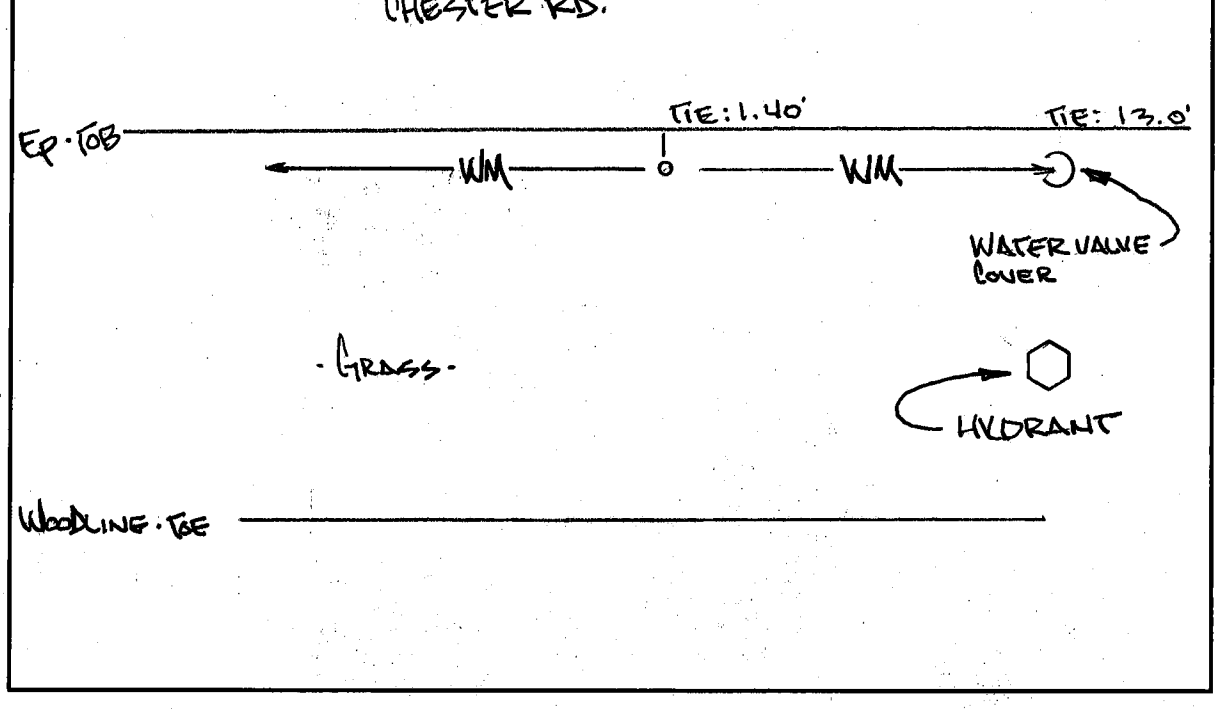
POLE #: TH.12

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.

DRMP # 16-0210.001

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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 #: 329000606060

FPN/DRMP #: 16-0210.001

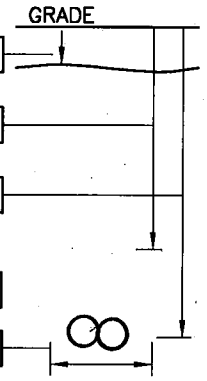
HOLE #: VVH521

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:

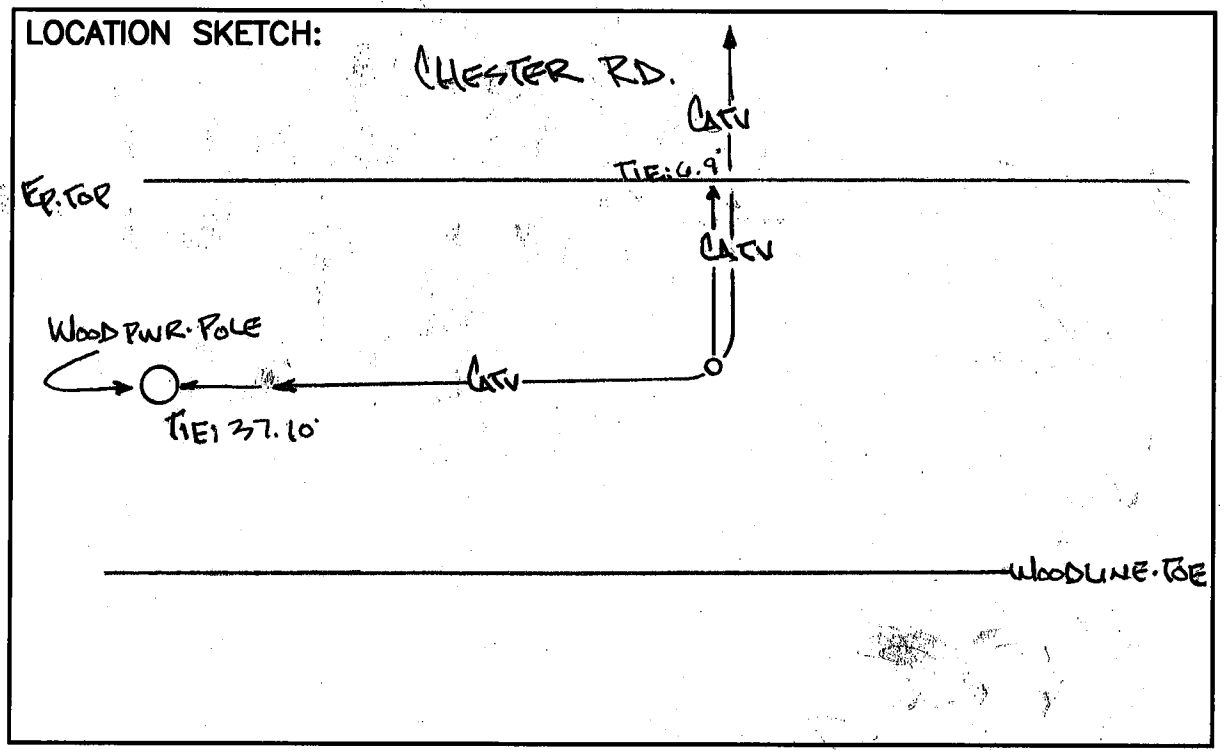
POLE #: TH-13

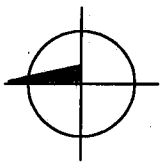
EH #:

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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CHESTER RD.

DRMP # 16-0210.001

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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

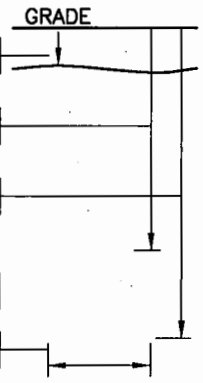
HOLE #: VVH#522

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

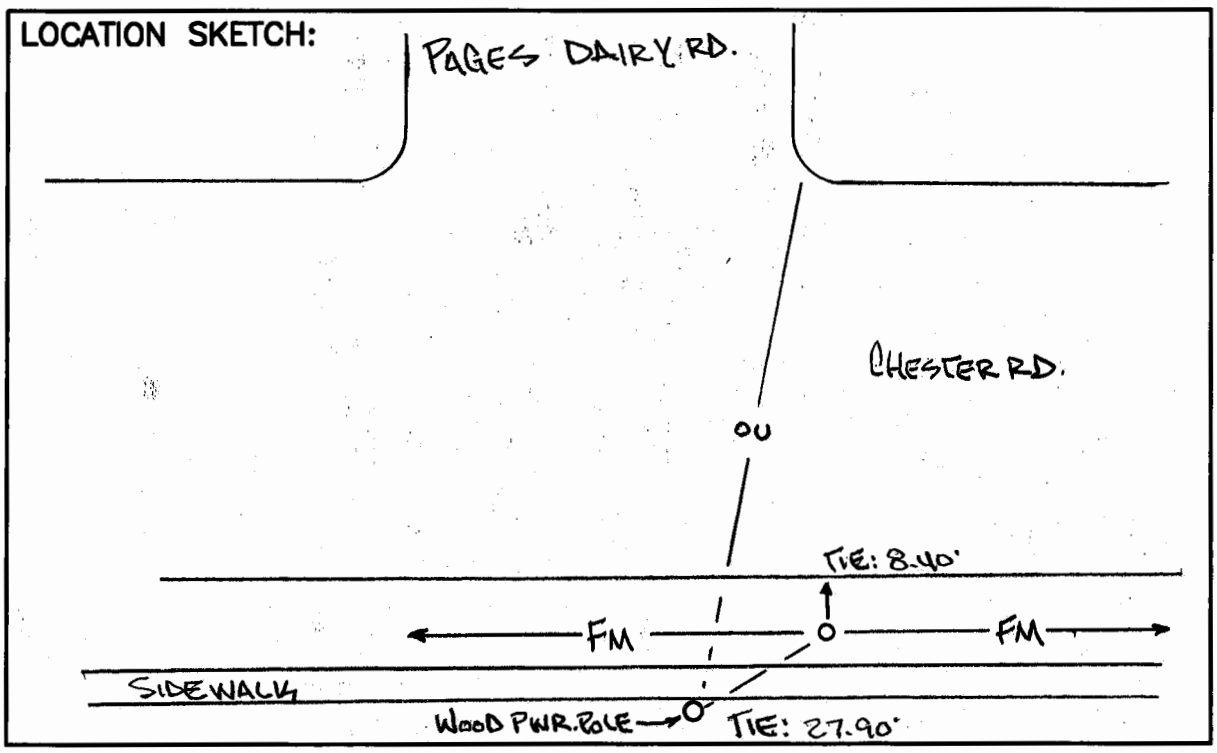
EH #:

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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CHESTER RD.

DRMP # 16-0210.001

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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 #: 329000616616

FPN/DRMP #: 116.0210.001

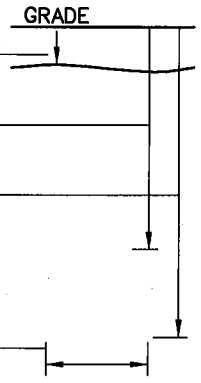
HOLE #: VUH*523

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] 90.88	30.33'	RT	

NORTHING:	EASTING:	STATE PLANE ZONE:

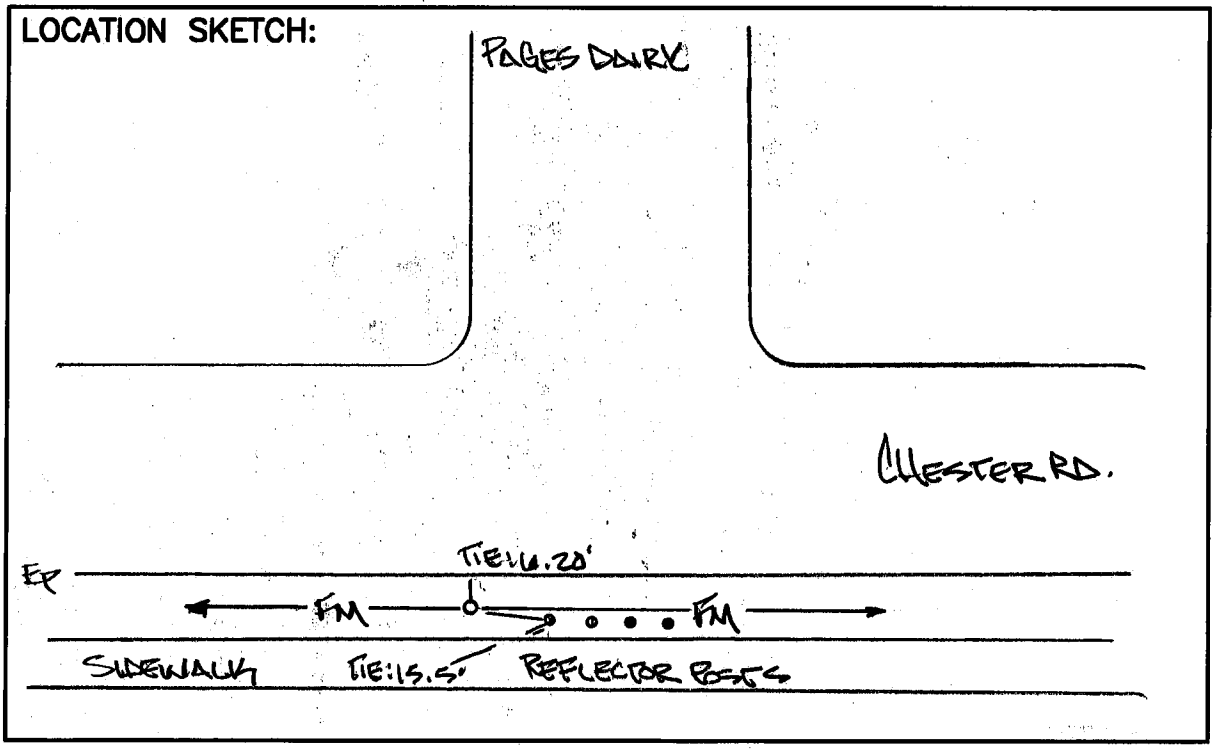
UTILITY/CONTRACTOR LOCATOR CONTACT:

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.#:

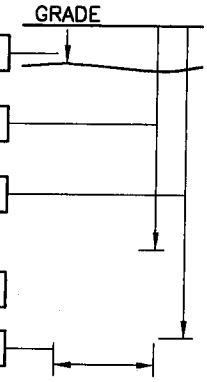
HOLE#: VVH 524

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

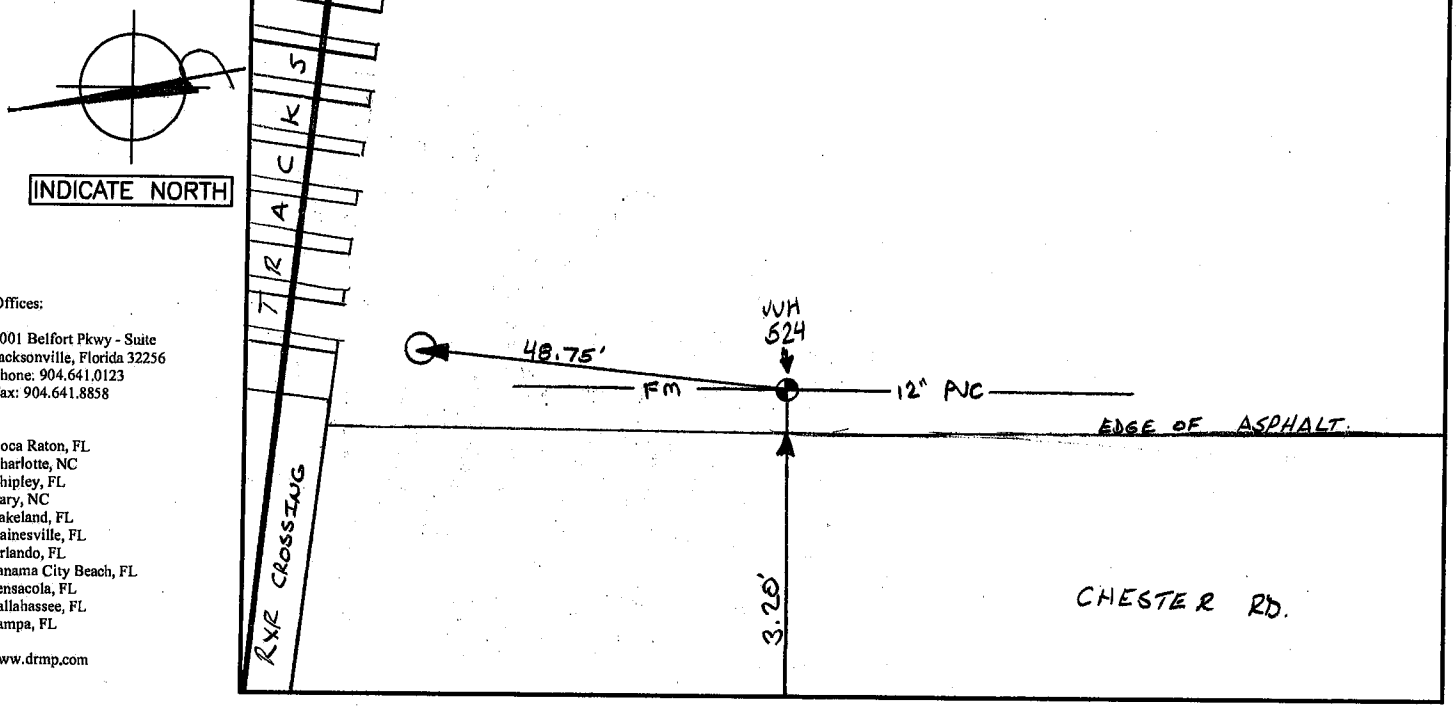
POLE #: N/A

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:



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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.#:

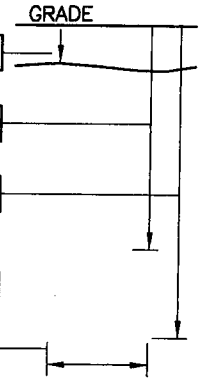
HOLE#: VUH 525

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'	RT	SW—NE

NORTHING:	EASTING:	STATE PLANE ZONE:

UTILITY OWNER/CONTRACTOR LOCATOR CONTACT: JEA

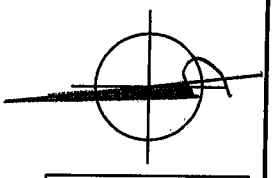
POLE #: N/A

EH #: TH 15

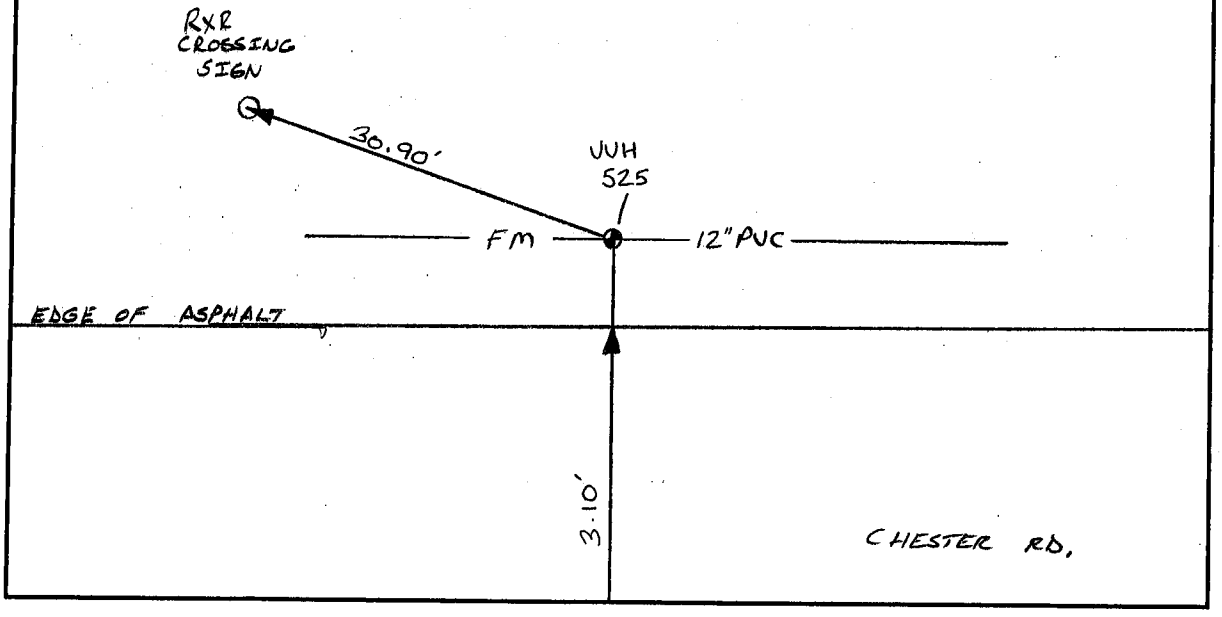
TYPE OF UTILITY	MATERIAL
E - ELECTRICAL	1 - STEEL
G - GAS	(2) PVC (POLYVINYL CHLORIDE)
BT - BURIED TELEPHONE	3 - DIP (DUCTILE IRON PIPE)
FOC - FIBER OPTIC CABLE	4 - VCP (VITRIFIED CLAY PIPE)
W - WATER	5 - PEP (POLYETHYLENE PIPE)
SAN - SANITARY SEWER	6 - AC(ASBESTOS C./TRANSITE)
STM - STORM SEWER	7 - 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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DRMP # 16-0210.001

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VACUUM EXCAVATION RECORD

CAMERA #: 5 | CREW: HIRES, O'ROURKE

PROJECT: CHESTER RD. | DATE: 12/7/20 | DRMP#: 16-0210.001

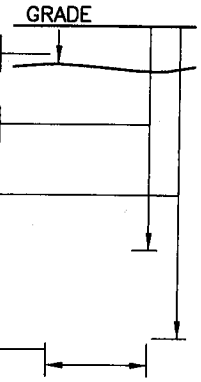
CITY/COUNTY: NASSAU | ONE-CALL #: 329000666 | F.P.N.#:

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'		SW - NE

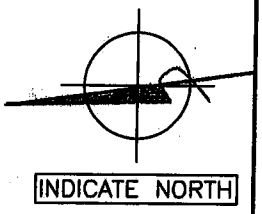
NORTHING:	EASTING:	STATE PLANE ZONE:

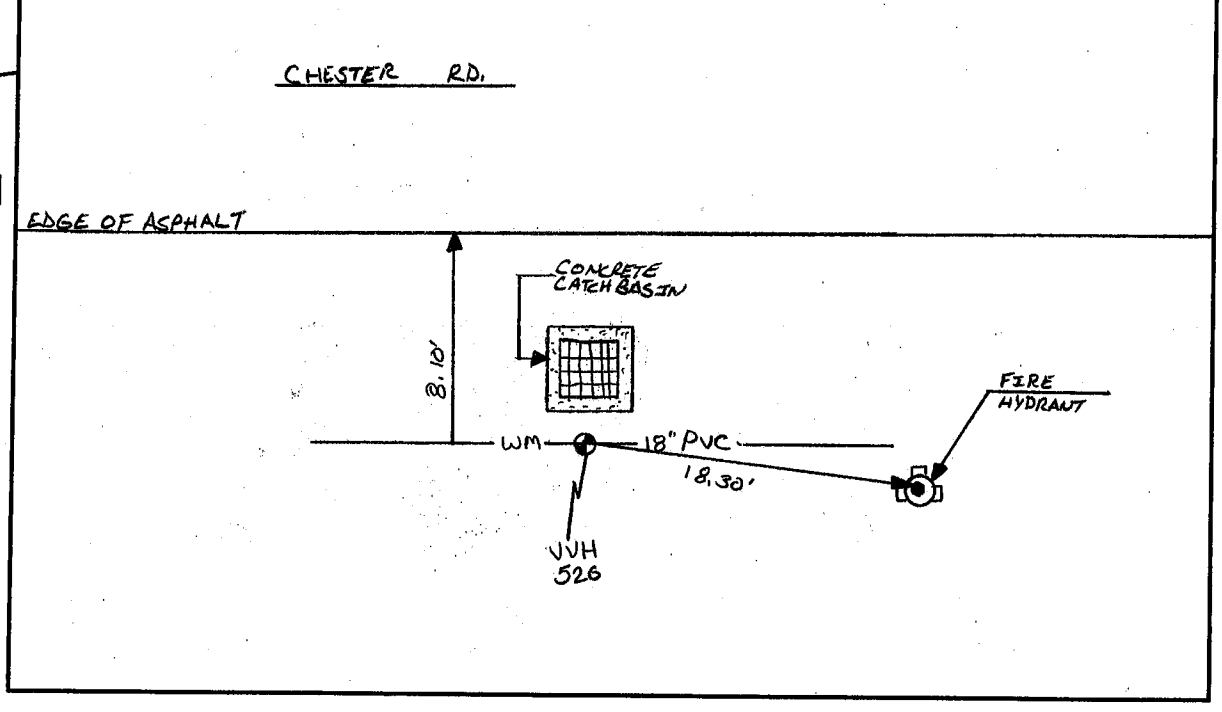
UTILITY OWNER/CONTRACTOR LOCATOR CONTACT: JEA | POLE #: N/A | EH #: TH 21

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.





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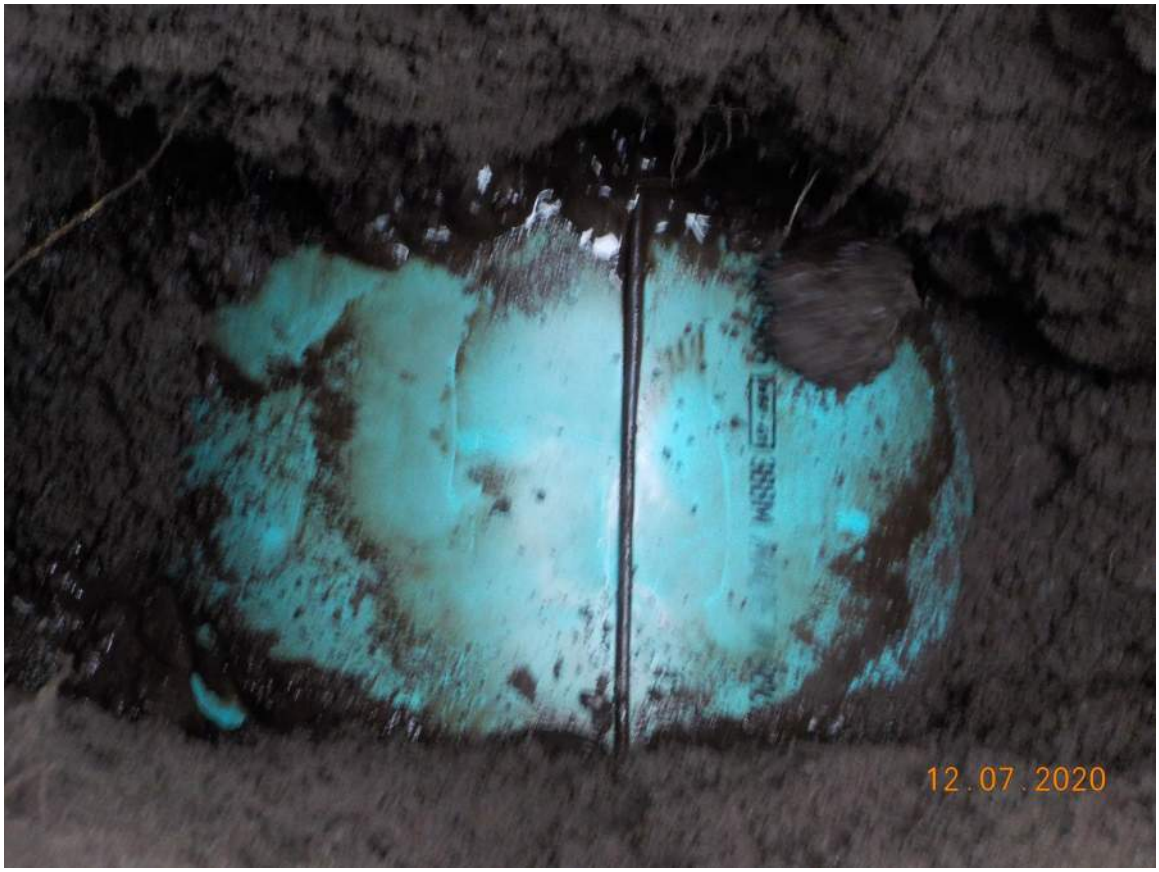

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VACUUM EXCAVATION RECORD

CAMERA #: 5 | CREW: HIRES, O'ROURKE

PROJECT: CHESTER RD. | DATE: 12/7/20 | DRMP#: 16-0210.001

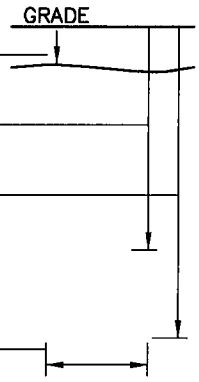
CITY/COUNTY: NASSAU | ONE-CALL #: 329000666 | F.P.N.#:

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

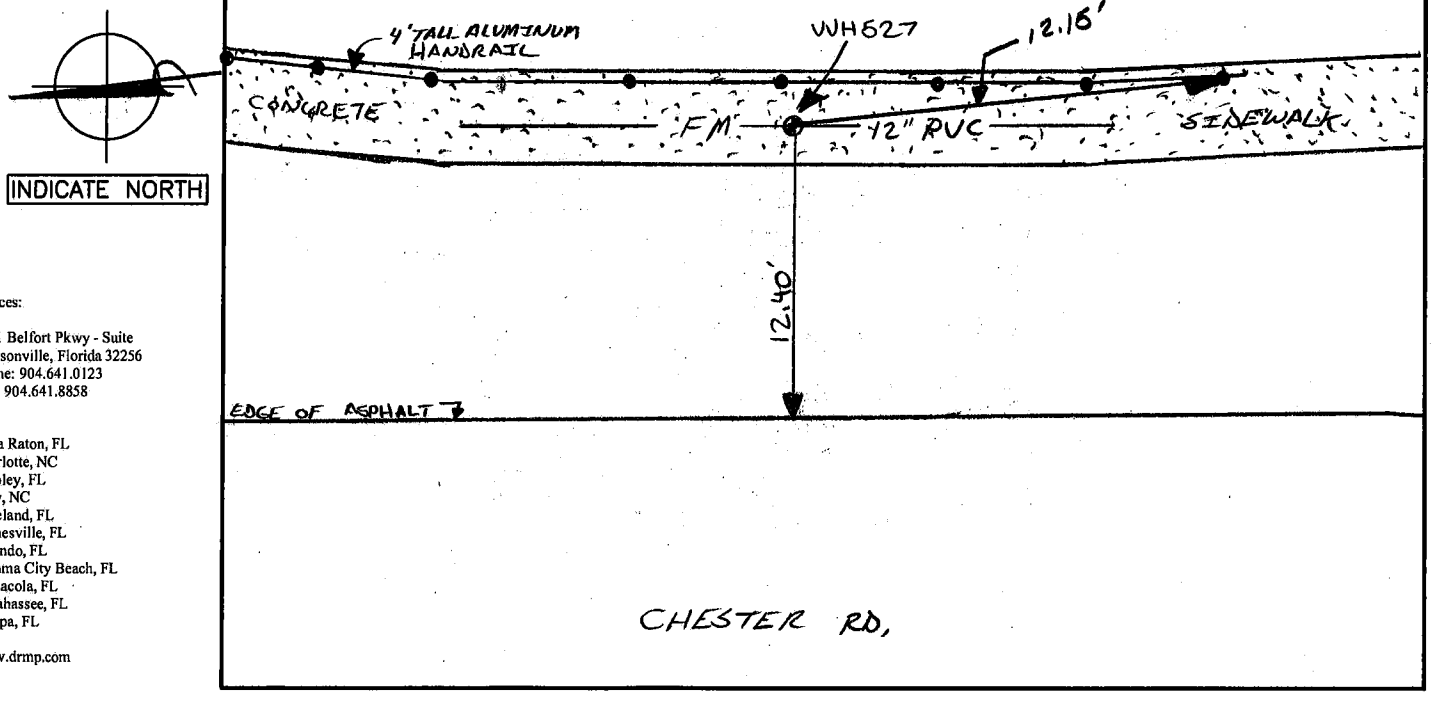
NORTHING:	EASTING:	STATE PLANE ZONE:

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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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

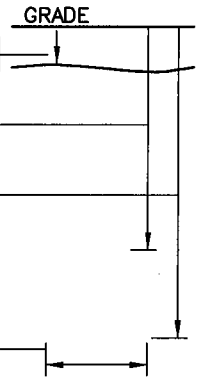
CITY/COUNTY: NASSAU | ONE-CALL #: 329000660 | F.P.N.#:

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

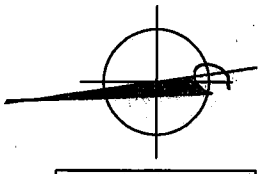
POLE #: N/A

EH #: TH2

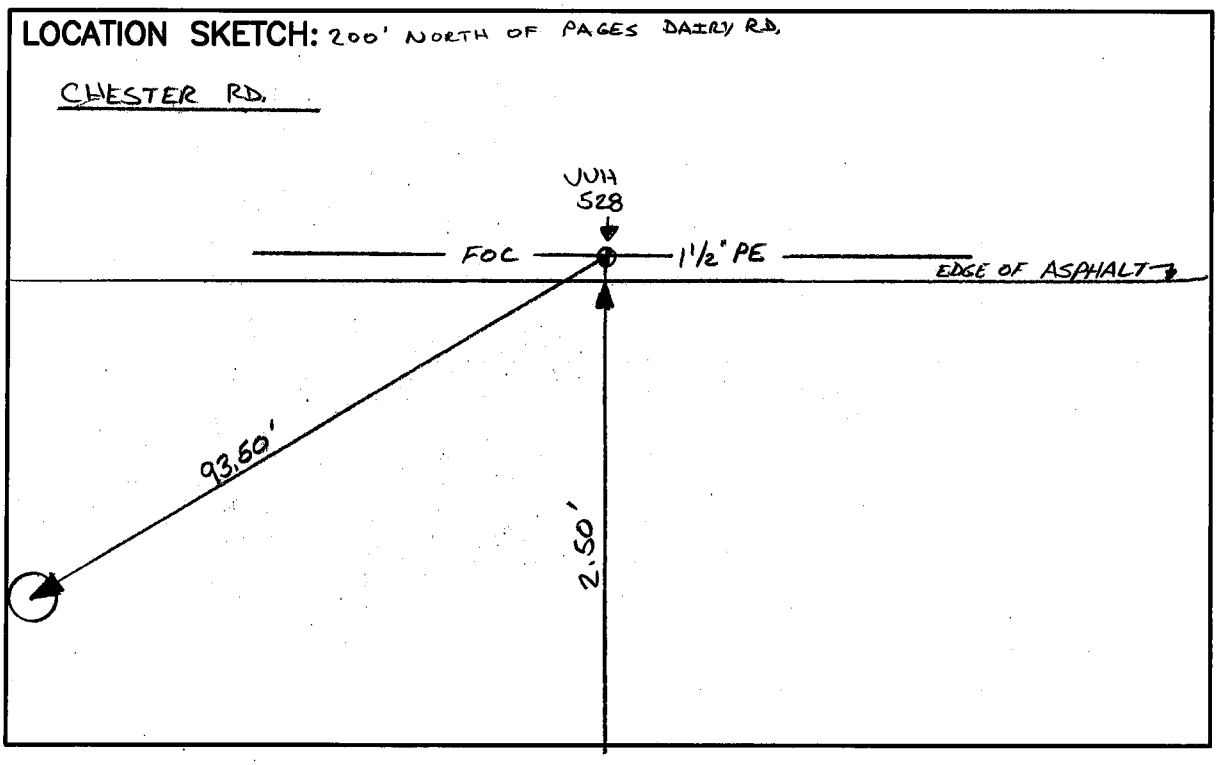
TYPE OF UTILITY	MATERIAL
E - ELECTRICAL	1 - STEEL
G - GAS	2 - PVC (POLYVINYL CHLORIDE)
BT - BURIED TELEPHONE	3 - DIP (DUCTILE IRON PIPE)
(FOC) - FIBER OPTIC CABLE	4 - VCP (VITRIFIED CLAY PIPE)
W - WATER	(5) - PEP (POLYETHYLENE PIPE)
SAN - SANITARY SEWER	6 - AC(ASBESTOS C./TRANSITE)
STM - STORM SEWER	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.



INDICATE NORTH



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CHESTER RD.

DRMP # 16-0210.001

VVH 528

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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.#:

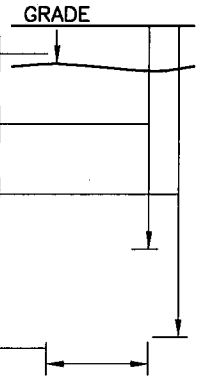
HOLE#: VUH 529

UTILITY FOUND: FM-12"-PVC

GROUND: (ASPHALT) CONCRETE DIRT OTHER

SOIL CONDITION: (HARD) SOFT WET (DRY) (SAND) (DIRT) (CLAY) (ROCK)

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]	25.74'	[redacted]	SW—NE

NORTHING:	EASTING:	STATE PLANE ZONE:

UTILITY OWNER/CONTRACTOR LOCATOR CONTACT: JEA

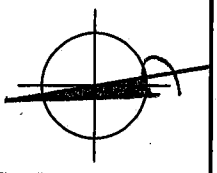
POLE #: N/A

EH #: TH7

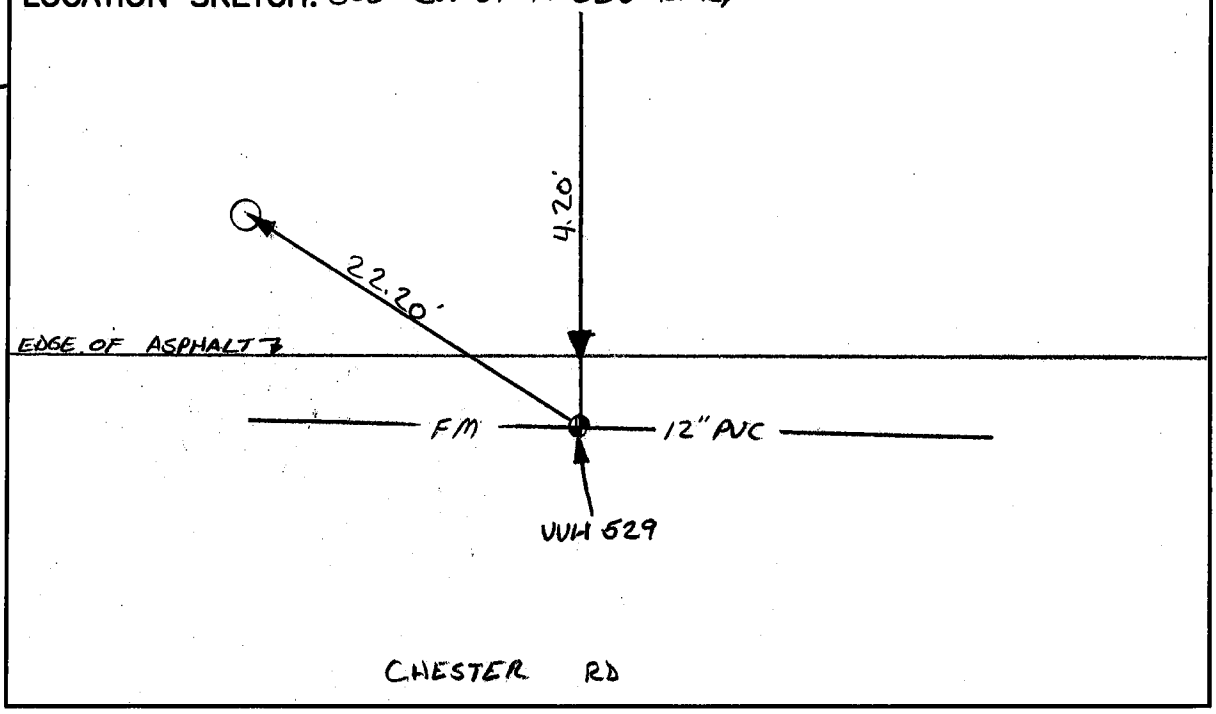
TYPE OF UTILITY	MATERIAL
E - ELECTRICAL	1 - STEEL
G - GAS	(2) PVC (POLYVINYL CHLORIDE)
BT - BURIED TELEPHONE	3 - DIP (DUCTILE IRON PIPE)
FOC - FIBER OPTIC CABLE	4 - VCP (VITRIFIED CLAY PIPE)
W - WATER	5 - PEP (POLYETHYLENE PIPE)
SAN - SANITARY SEWER	6 - AC(ASBESTOS C./TRANSITE)
STM - STORM SEWER	7 - 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

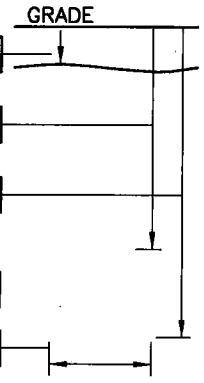
HOLE #: VVH530

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

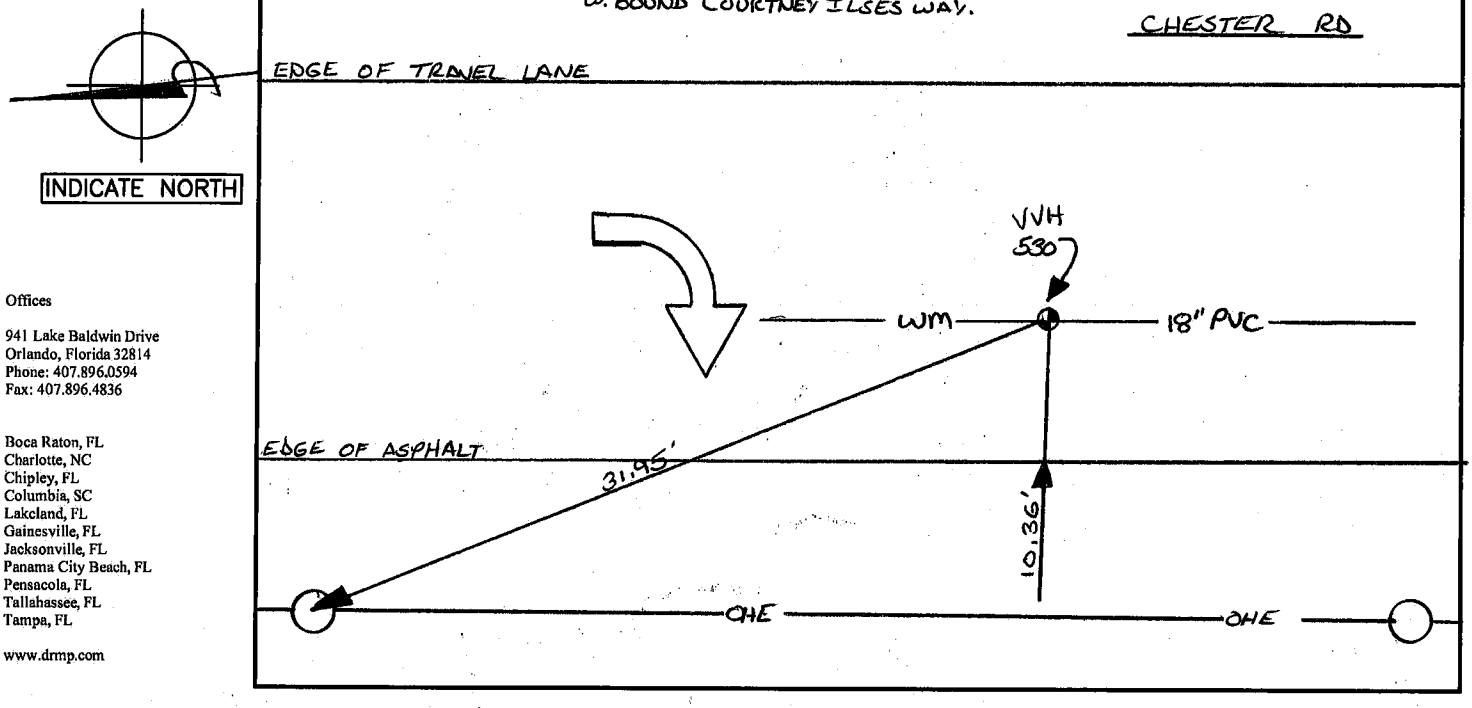
POLE #: N/A

EH #: TH 6

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.



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CHESTER RD.

DRMP # 16-0210.001

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

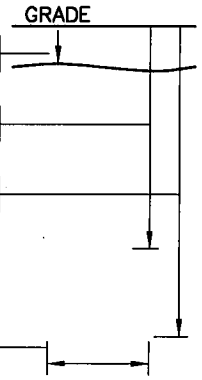
HOLE #: VJH 531

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] 05.05	26.18'	RT	SW—NE

NORTHING:	EASTING:	STATE PLANE ZONE:

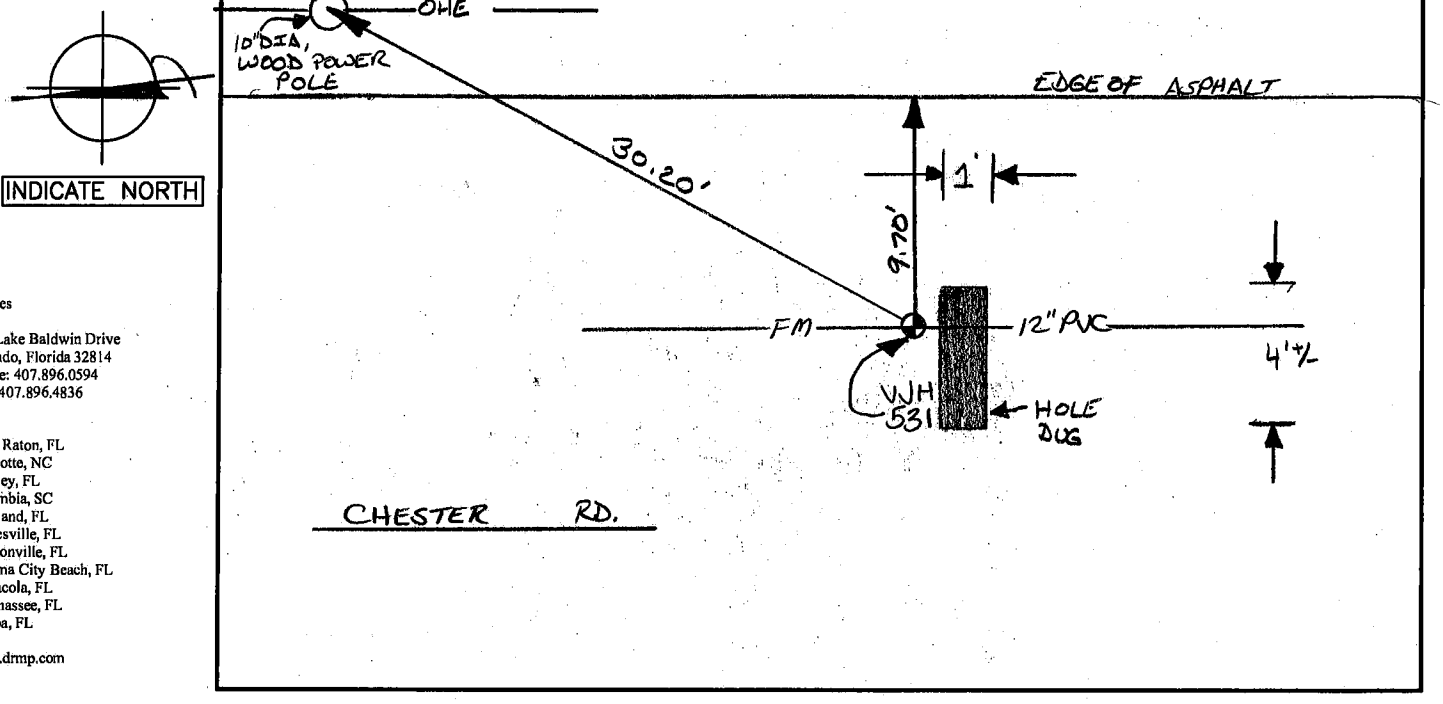
UTILITY/CONTRACTOR LOCATOR CONTACT: JEA

POLE #: N/A

EH #: TH 1

TYPE OF UTILITY	MATERIAL
E - ELECTRICAL 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) POWER POLE JOB UNITS: (ENGLISH) or METRIC

LOCATION SKETCH:



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CHESTER RD.

DRMP # 16-0210.001

VVH 531

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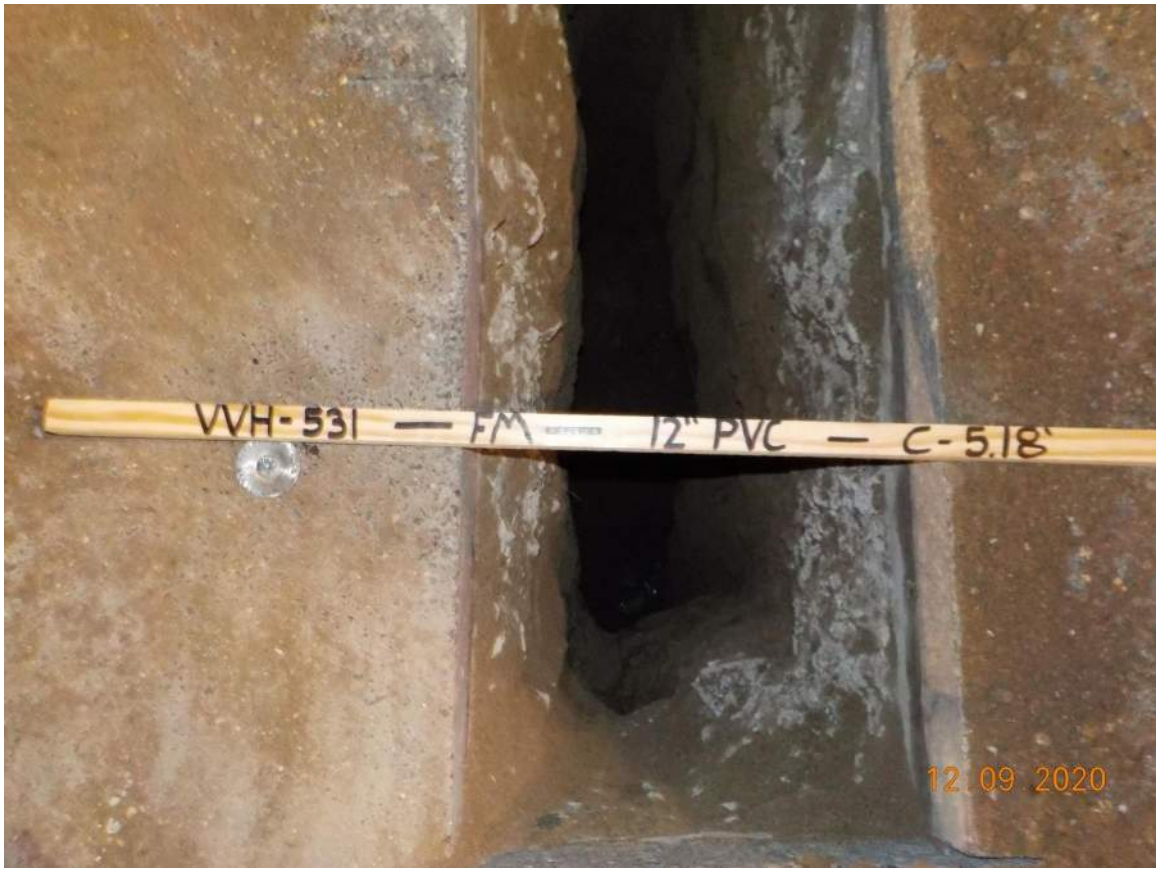

VVH 531

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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

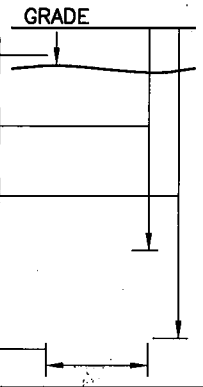
HOLE #: UVH532

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:

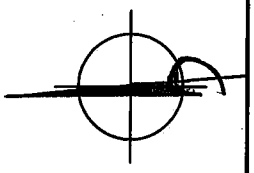
UTILITY/CONTRACTOR LOCATOR CONTACT: JEA

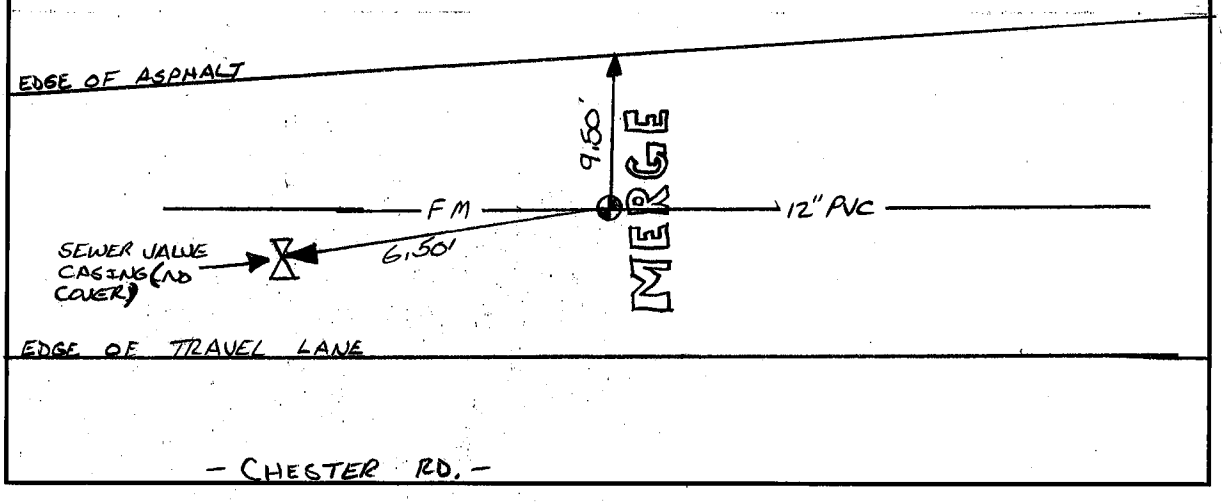
POLE #: N/A

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.





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 532

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1

VVH 532

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1

VVH 532

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1

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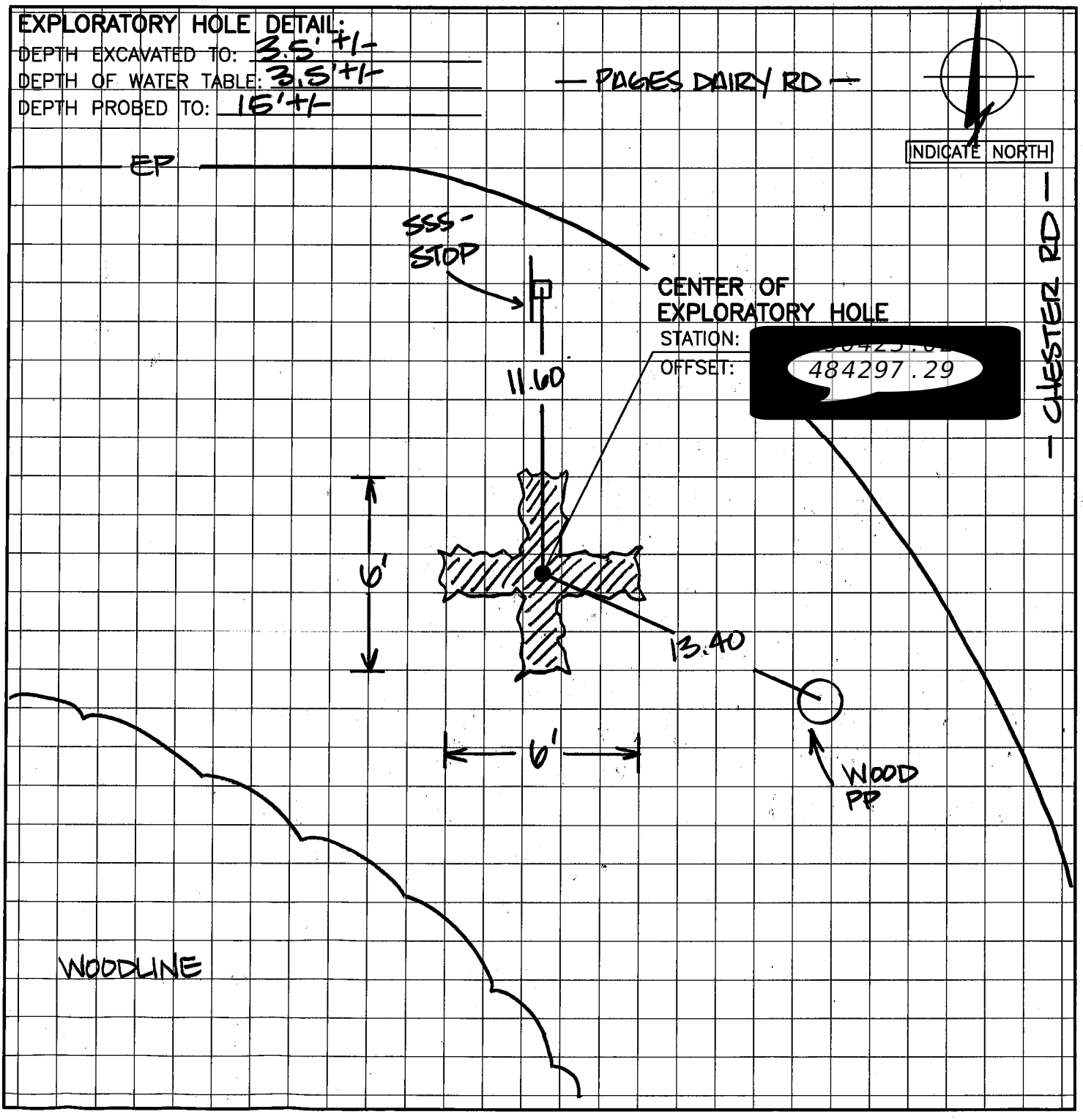
EXPLORATORY VACUUM EXCAVATION RECORD

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

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1

EH 501

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1

EH 501

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1

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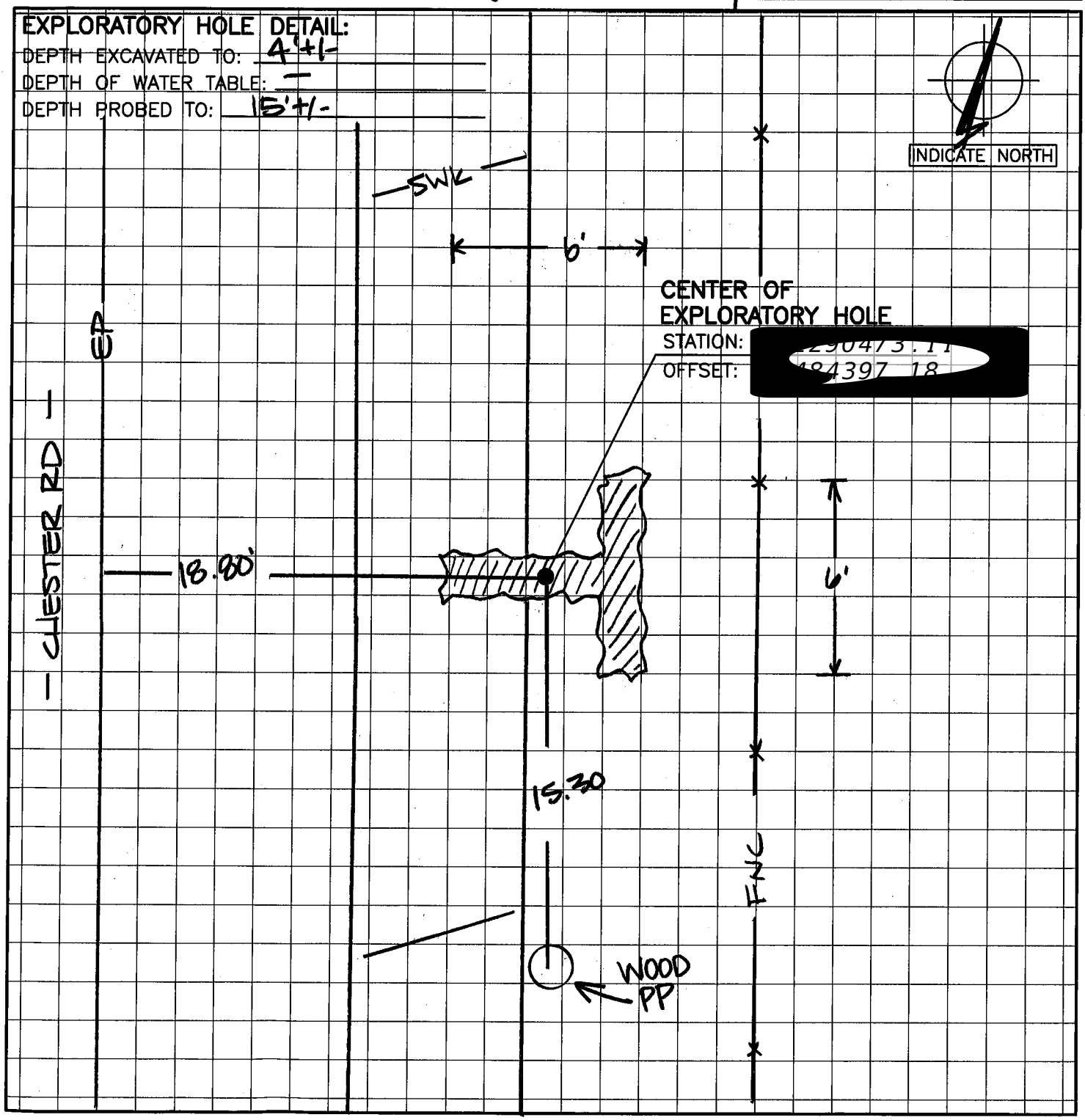
EXPLORATORY VACUUM EXCAVATION RECORD

CAMERA #: 4	CREW: HEITMAN DUNHAM O'ROURKE	
PROJECT: CHESTER RD	DATE: 10/14/20	DRMP #:
CITY/COUNTY: NASSAU	ONE-CALL #: Z86005141	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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EH 502

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1

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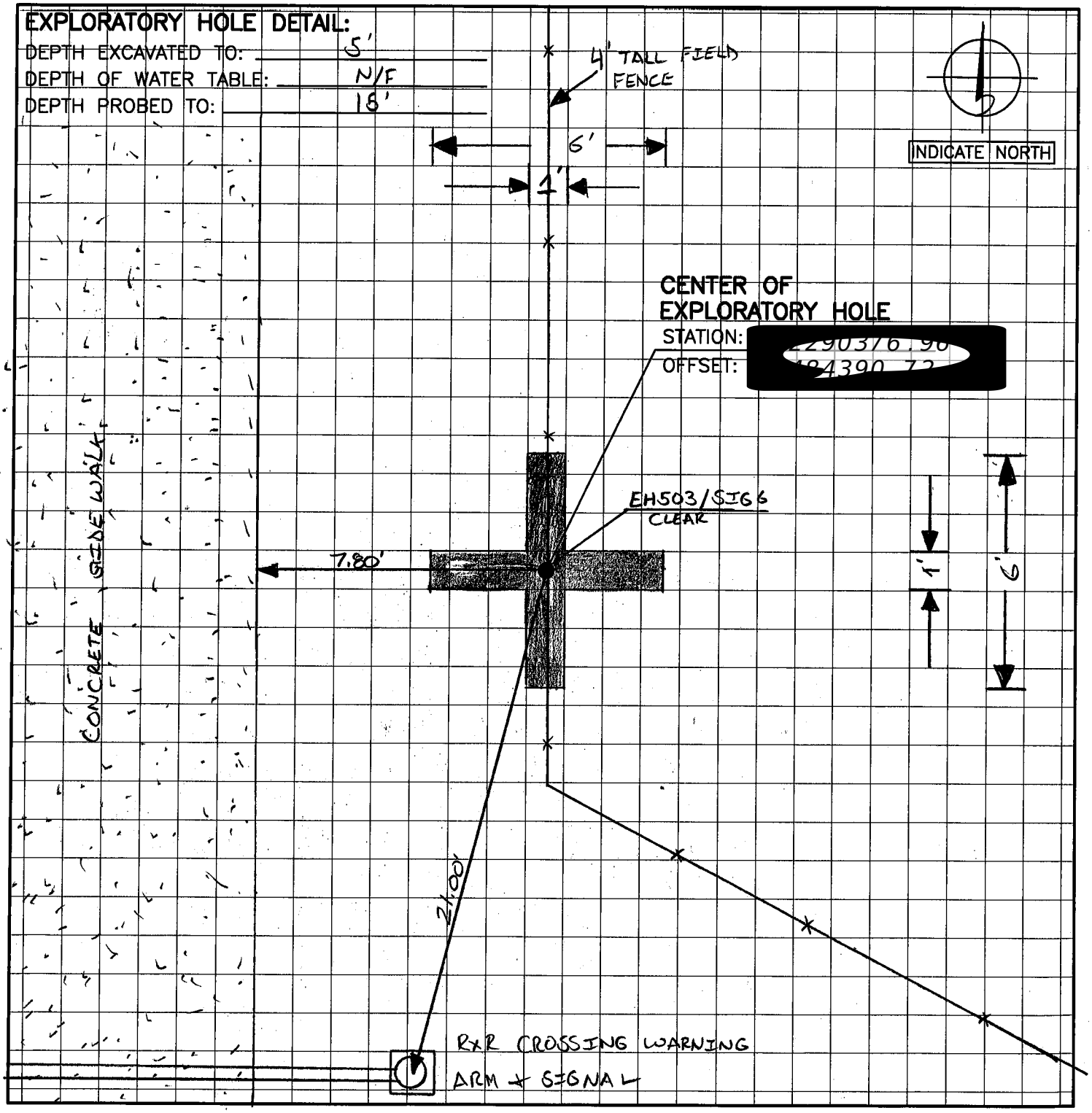
EXPLORATORY VACUUM EXCAVATION RECORD

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

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1

EH 503

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1

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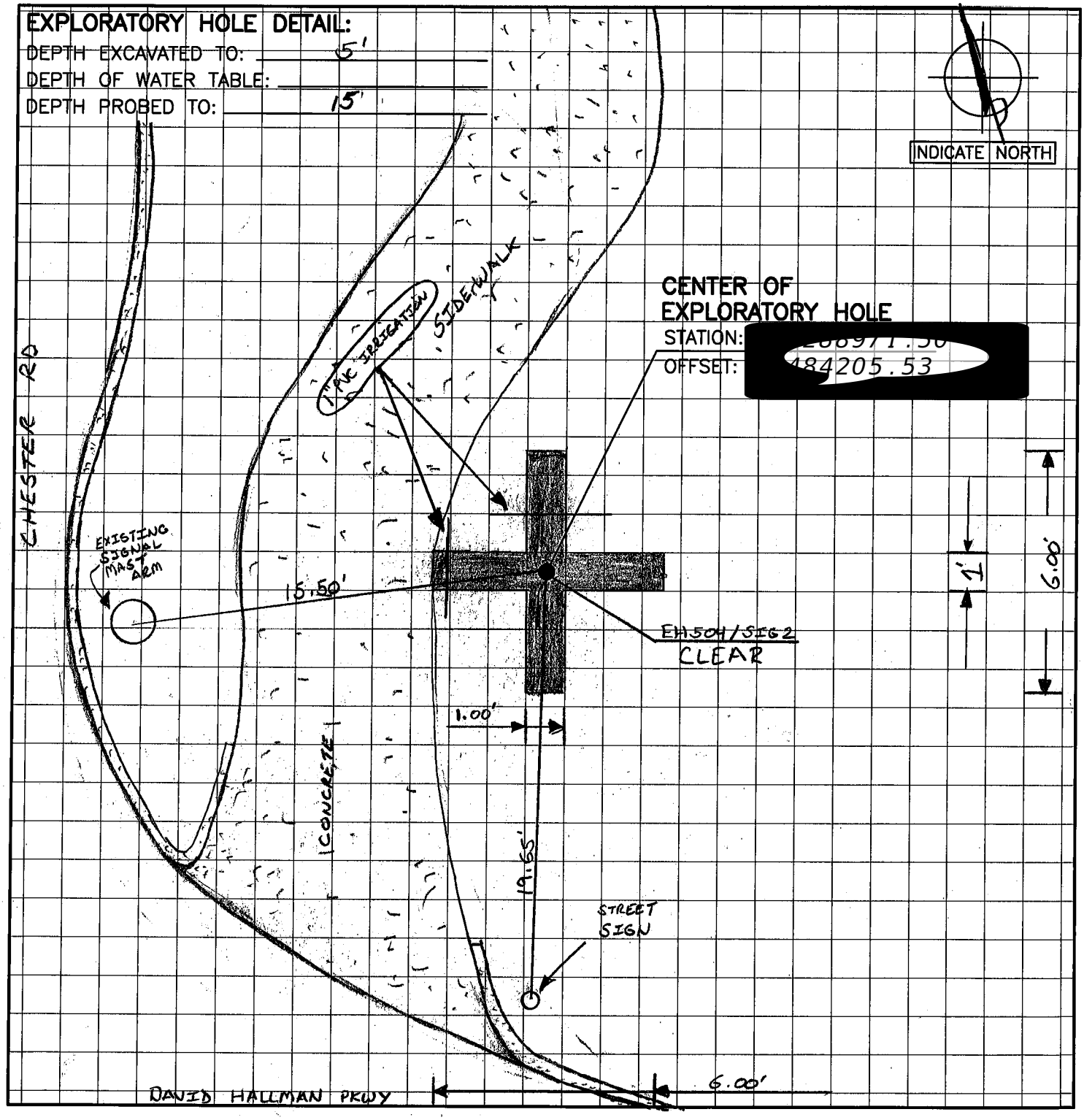
EXPLORATORY VACUUM EXCAVATION RECORD

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

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EH 504

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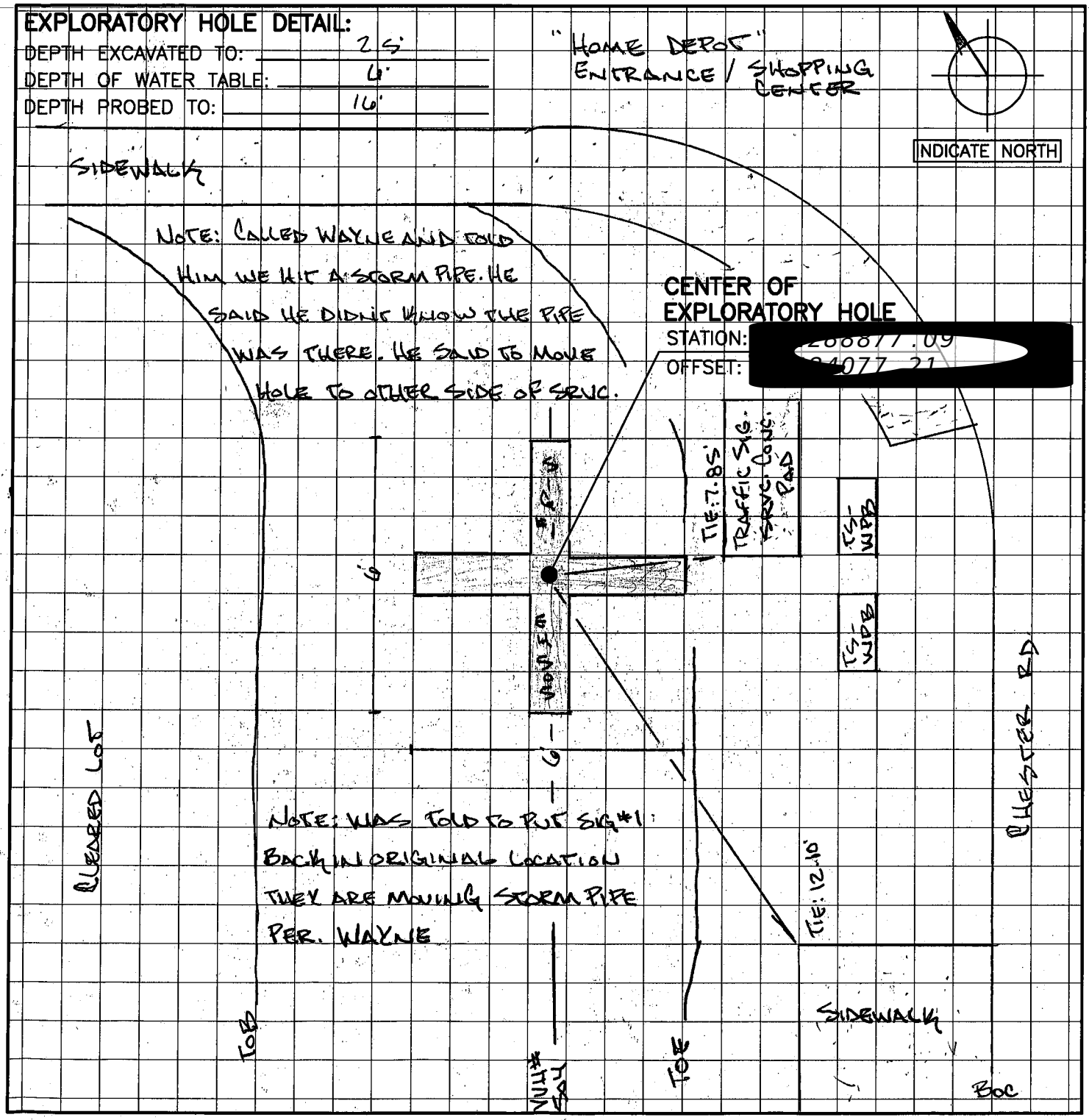
EXPLORATORY VACUUM EXCAVATION RECORD

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.

DRMP # 16-0210.001

EH 505

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EH 505

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EH 505

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EXPLORATORY VACUUM EXCAVATION RECORD

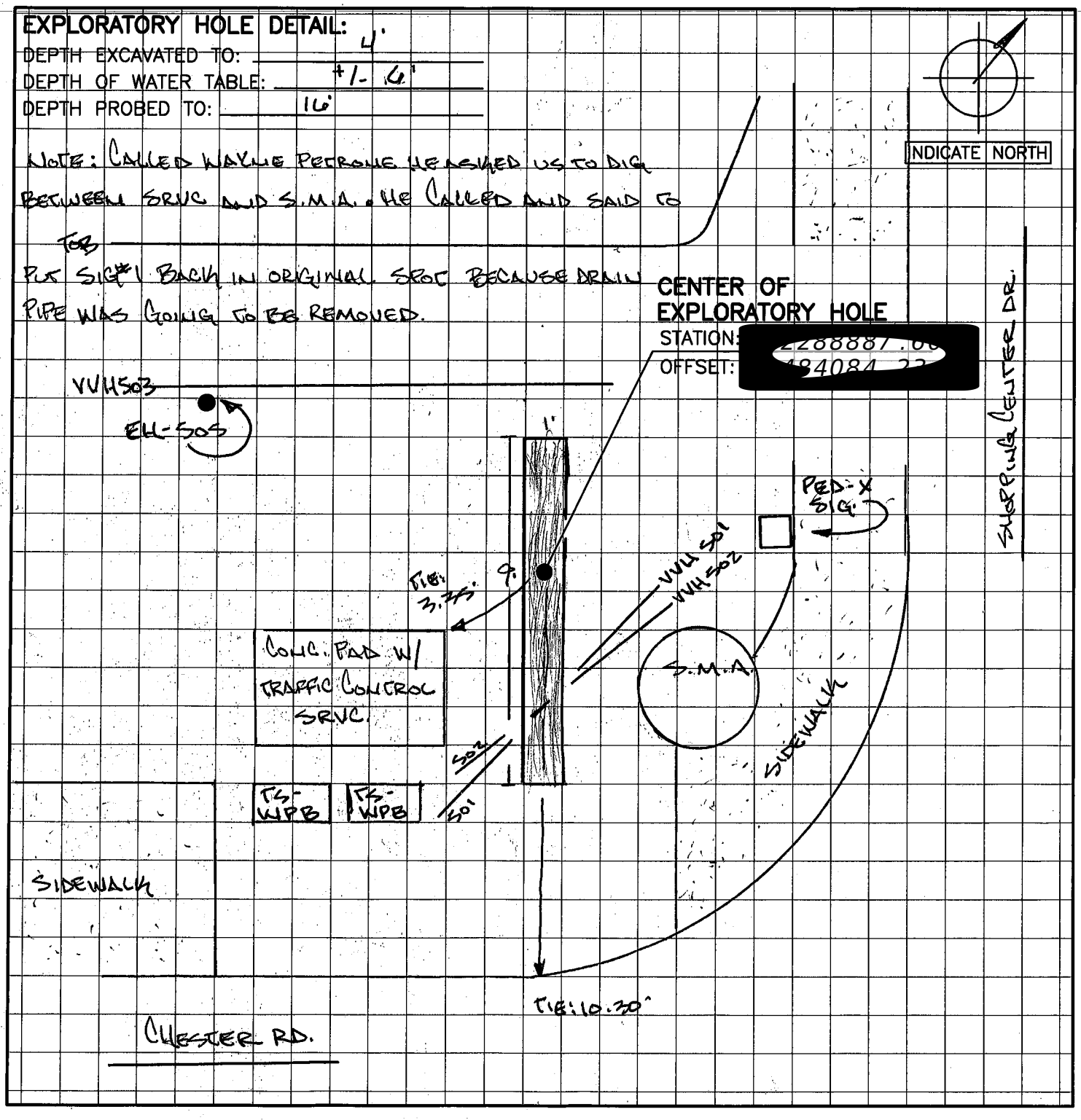
CAMERA #: 4	CREW: I. DUNHAM, I. JASMIN, B. O'ROURKE	
PROJECT: CHESTER RD. / S.M.A.	DATE: 10.20.2020	DRMP #:
CITY/COUNTY: NASSAU	ONE-CALL #: 286004998	F.P.N.#
HOLE#: EH-506	POLE#: SIG #1	CONFLICT FOUND: VVH's 501-503
INTERSECTION/ADDRESS: CHESTER RD. @ SHOPPING CENTER DR.		

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.

INDICATE NORTH

CENTER OF EXPLORATORY HOLE
STATION: [redacted]
OFFSET: [redacted]



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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 #:

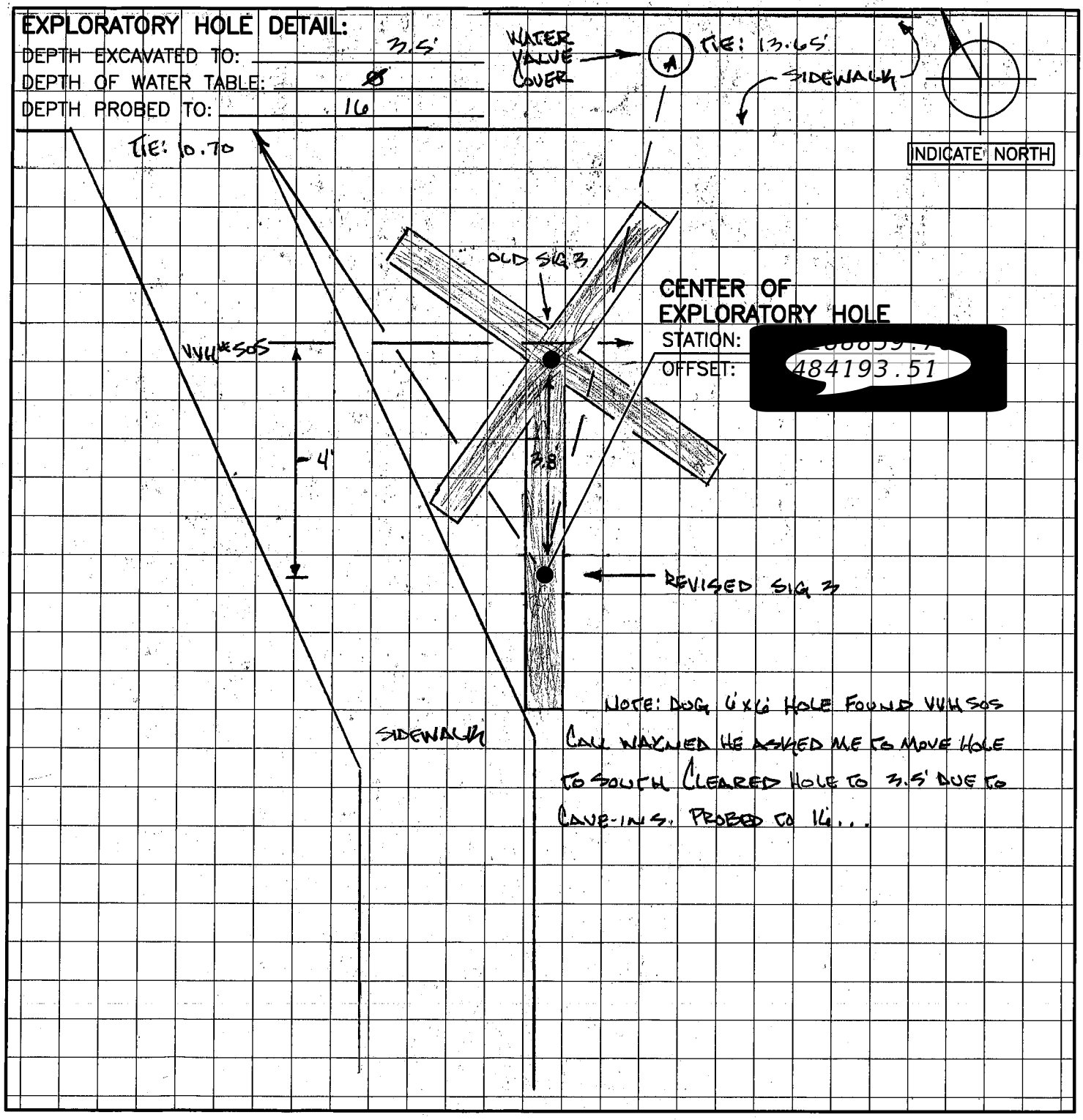
CITY/COUNTY: NASSAU | ONE-CALL #: | F.P.N.#

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

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EH 507

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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
Maryam H. Ghyabi-White, VICE CHAIR ORMOND BEACH
J. Chris Peterson, SECRETARY WINTER PARK
Ron Howse, TREASURER COCOA
Ryan Atwood MOUNT DORA
Doug Bournique VERO BEACH
Douglas Burnett ST. AUGUSTINE
Cole Oliver MERRITT ISLAND
Janet Price FERNANDINA BEACH

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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, 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.

NOR.Decision.DOC.001
Revised 12.7.11

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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.

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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.

6) Contractor also has the sole responsibility of ascertaining that all other utilities have been properly located by complying with the local "call before you dig" regulation(s). Contractor shall solely be responsible for notifying owners of adjacent properties and of underground facilities and utility owners when prosecution of the work may affect them, and shall cooperate with them in the protection, removal, relocation and replacement of their property.

7) The use of construction safety fencing is required when a CSXT Flagman is not present. Distance of fencing from nearest rail to be determined by the CSXT Track Supervisor and shall be removed upon completion of the project.

8) Contractor access will be limited to the immediate project area only. The CSXT property outside the project area may not be used for contractor access to the project site and no temporary at-grade crossings will be allowed.

9) All material and equipment will be staged to not block any CSXT access or maintenance roads. No hoisting or auxiliary equipment necessary for the procedure shall be placed on CSXT track structure and / or ballast section. Clear working locations for equipment used will be laid out and approved by CSXT's representative prior to equipment set-up. Agency and contractor shall not store their materials or equipment on CSXT's property or where they may potentially interfere with CSXT's operations.

10) CSXT does not grant or convey an easement for this installation.

11) CSXT requires contractors, subcontractors, and vendors to participate in job safety briefings daily and as necessary with the CSXT flagger. The scope of work may require that various protection against train movements be discussed, understood, and utilized. Work shall only be undertaken with the presence and permission of the CSXT flagger. If at any time the CSXT flagger perceives that the hoisting procedure is causing or has the potential to cause a hazard or delay to CSXT operations through the project site, work will cease until such time as satisfactory modifications have been reviewed and approved.

12) The right of way shall be restored to a condition equal to or better than the condition prior to beginning the project before final acceptance will be provided. Punch lists shall be responded to prior to issuance of an acceptance memorandum signed by the CSXT representative.

13) No construction or entry upon the CSXT corridor is permitted until the document transaction is completed, you are in receipt of a fully executed document, and you have obtained authority from CSXT's.

14) The front of the 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. The bore head / auger set-up (sketch or photos) shall be submitted by contractor and accepted by assigned CSXT representative prior to start of the jack & bore.

15) The operation shall be progressed on a 24-hour basis without stoppage (except for adding lengths of pipe) until the leading edge of the pipe has reached the receiving pit.

16) The auger and cutting head arrangement shall be removable from within the pipe in the event an obstruction is encountered.

17) Pipeline shall be prominently marked at both sides of the CSXT property lines by durable, weatherproof signs located over the centerline of the pipe in accordance with CSXT specifications.

18) If required, a dewatering plan in accordance with CSXT specifications will be submitted to the CSXT representative for review and approval prior to any dewatering operations. Dewatering drawdown level at tracks shall be field verified that it meets the approved dewatering design prior to commencement of jack and bore operations.

19) Blasting is not permitted under, on, or adjacent to CSXT property.

Revised January 31, 2023

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20) Jacking pit: identify hazards and put controls in place prior to start of excavation. Contractor shall erect a barrier and construction fence along the face of jacking pit construction limits and not encroach past it when preparing the pit. Stake or mark pit as needed for digging. Erosion control devices shall be placed at the jacking and receiving pits protecting CSXT property and ditches to the satisfaction of the CSXT representative.

21) Excavation: If the excavation is 5 feet or greater in depth, the walls may be sloped at 1.5 horizontal to 1 vertical to reduce the risk of cave-ins or slides. A safe manner in which to enter and exit the excavation must be established. The toe of slopes in excavation shall in no case be undercut by power shovels, bulldozers, graders, blasting, or in any manner. Excavation shall not be made in excess of the authorized cross-section.

22) Backfill, cover or fence all excavations when unattended. The CSXT representative will approve the protection method and the type of fencing material. Set fencing back at least 3 feet (91 centimeters) from the edges of the excavation. Set fence posts securely in the ground and insure the fencing is securely tied to posts with zip ties or some other tie wrap product.

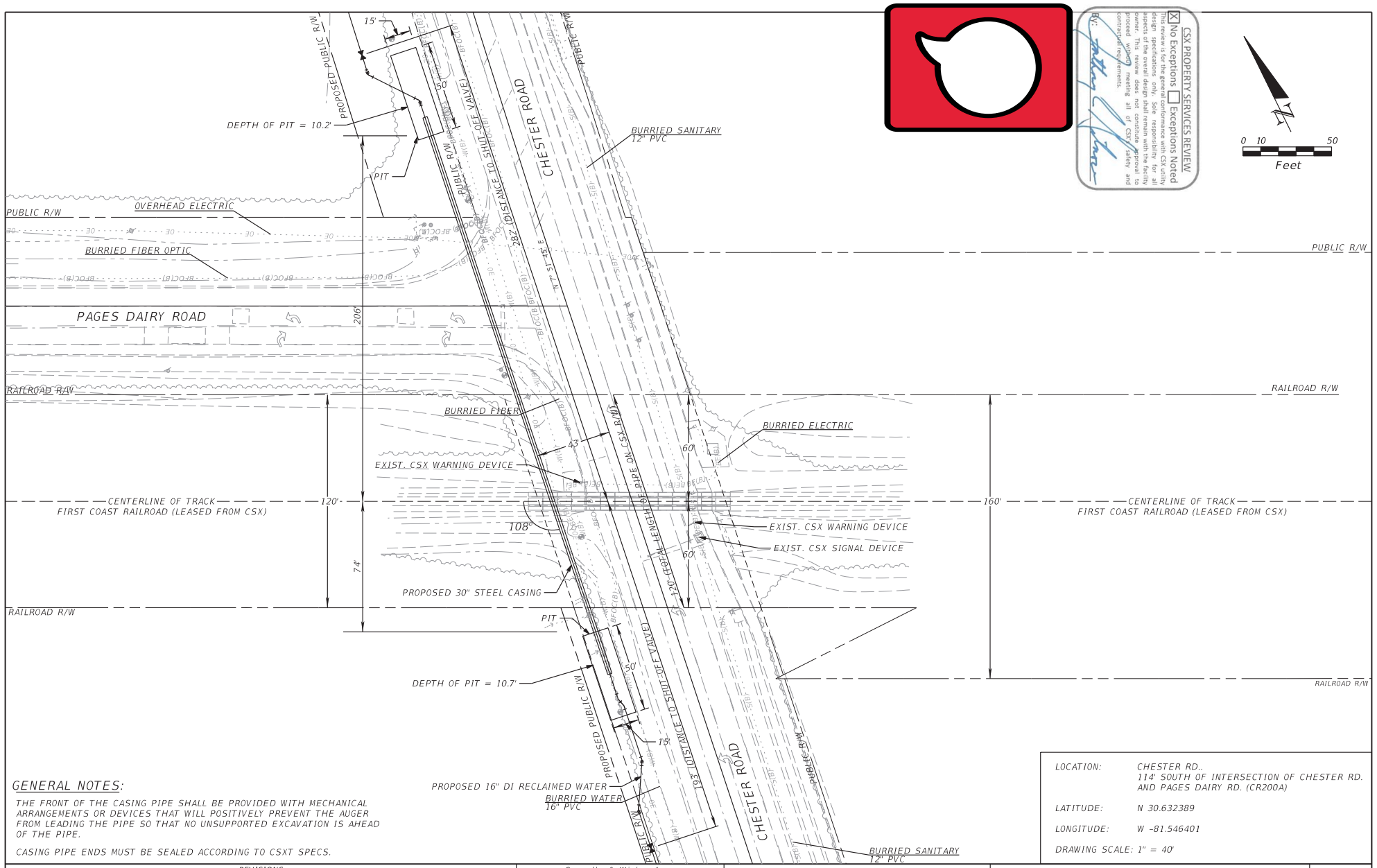
23) For any excavations permitted on CSXT property, all backfill in excavations and trenches shall be compacted to 95% maximum dry density as defined in ASTM standard d1557 and installed in six-inch lifts. In-situ soil shall be used for backfill material. Should additional offsite backfill material be needed, offsite material sources are to meet state and residential clean fill requirements and be preapproved by CSXT's representative. CSXT does not require a specific testing requirement or standard for stone.

24) Track monitoring: prior to commencing jack & bore operations, contractor shall be required to conduct and submit a baseline survey along the top of each rail under CSXT flagger protection and in accordance with the preapproved settlement monitoring construction submittal. Additional survey data shall be collected and submitted once each day during casing pipe installation, or as directed by CSXT representative. Contractor shall also take elevation shots at top of tie and top of casing pipe before starting the bore to verify depth of cover proposed for the work has been met.

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

26) CSXT does not represent or warrant the right-of-way dimensions depicted on these drawings. A third party survey is recommended for verification and accuracy.

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.


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:
0 10 50
Feet
CHESTER ROAD
PROPOSED PUBLIC R/W
PUBLIC R/W
15'
50'
DEPTH OF PIT = 10.2'
PIT
BURRIED SANITARY 12" PVC
282' (DISTANCE TO SHUT-OFF VALVE)
N 7°51'15" E
OVERHEAD ELECTRIC
BURRIED FIBER OPTIC
PAGES DAIRY ROAD
206'
RAILROAD R/W
BURRIED FIBER
43'
EXIST. CSX WARNING DEVICE
CENTERLINE OF TRACK
FIRST COAST RAILROAD (LEASED FROM CSX)
120'
108°
7.4'
PROPOSED 30" STEEL CASING
BURRIED ELECTRIC
60'
120' (TOTAL LENGTH OF PIPE ON CSX R/W)
EXIST. CSX WARNING DEVICE
EXIST. CSX SIGNAL DEVICE
160'
DEPTH OF PIT = 10.7'
193' (DISTANCE TO SHUT-OFF VALVE)
PROPOSED 16" DI RECLAIMED WATER
BURRIED WATER 16" PVC
BURRIED SANITARY 12" PVC
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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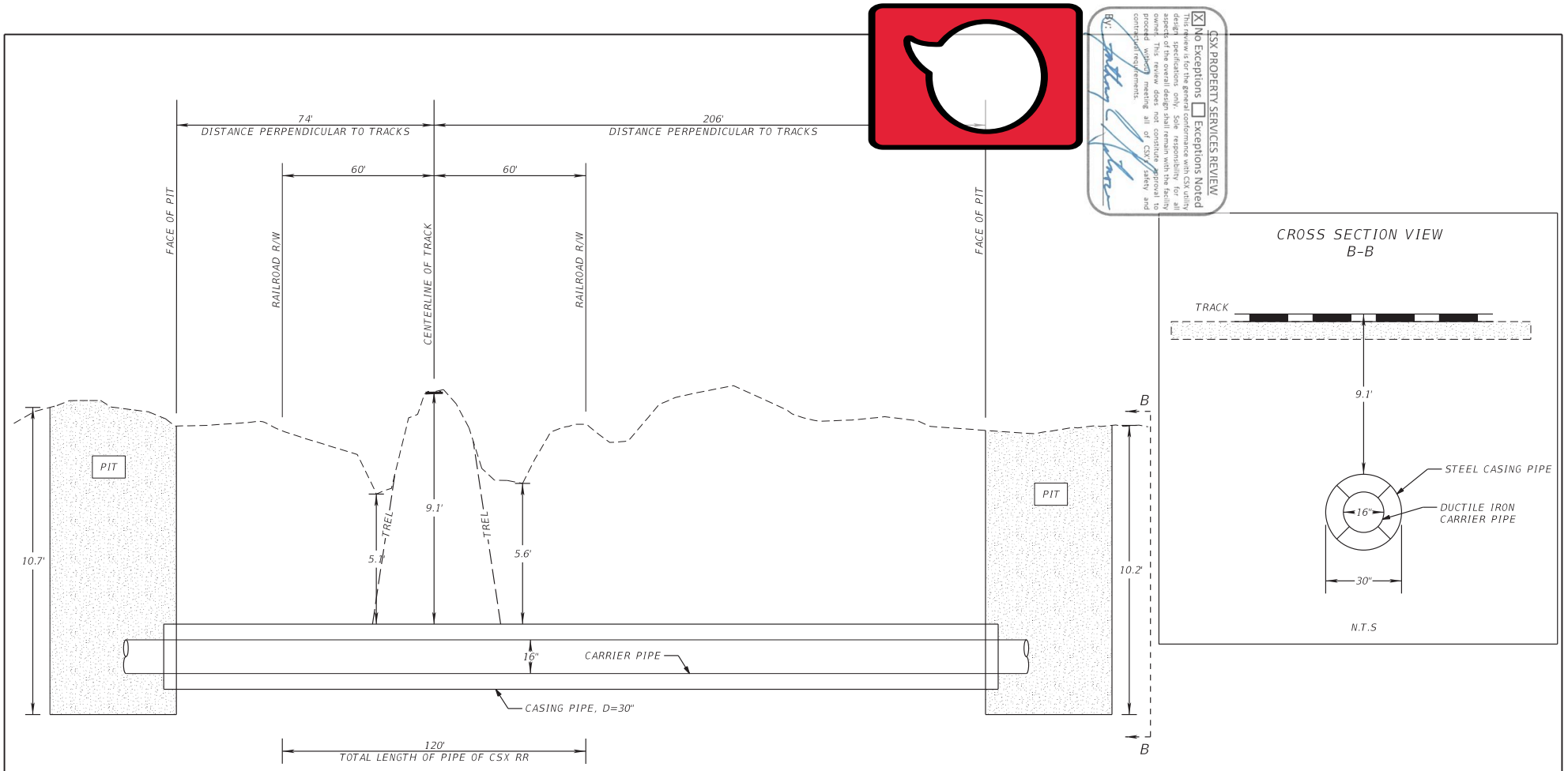

CSX PROPERTY SERVICES REVIEW
☒ No Exceptions ☐ Exceptions Noted
This review is for the general conformance with CSX utility standards and practices only. Signature does not relieve the facility owner of the overall design responsibility for the facility. This review does not constitute approval to proceed with any work meeting all of CSX's safety and contractual requirements.
By:

CROSS SECTION VIEW
B-B

GENERAL NOTES:

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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
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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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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.

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.

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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

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.

6) Contractor also has the sole responsibility of ascertaining that all other utilities have been properly located by complying with the local "call before you dig" regulation(s). Contractor shall solely be responsible for notifying owners of adjacent properties and of underground facilities and utility owners when prosecution of the work may affect them, and shall cooperate with them in the protection, removal, relocation and replacement of their property.

7) The use of construction safety fencing is required when a CSXT Flagman is not present. Distance of fencing from nearest rail to be determined by the CSXT Track Supervisor and shall be removed upon completion of the project.

8) Contractor access will be limited to the immediate project area only. The CSXT property outside the project area may not be used for contractor access to the project site and no temporary at-grade crossings will be allowed.

9) All material and equipment will be staged to not block any CSXT access or maintenance roads. No hoisting or auxiliary equipment necessary for the procedure shall be placed on CSXT track structure and / or ballast section. Clear working locations for equipment used will be laid out and approved by CSXT's representative prior to equipment set-up. Agency and contractor shall not store their materials or equipment on CSXT's property or where they may potentially interfere with CSXT's operations.

10) CSXT does not grant or convey an easement for this installation.

11) CSXT requires contractors, subcontractors, and vendors to participate in job safety briefings daily and as necessary with the CSXT flagger. The scope of work may require that various protection against train movements be discussed, understood, and utilized. Work shall only be undertaken with the presence and permission of the CSXT flagger. If at any time the CSXT flagger perceives that the hoisting procedure is causing or has the potential to cause a hazard or delay to CSXT operations through the project site, work will cease until such time as satisfactory modifications have been reviewed and approved.

12) The right of way shall be restored to a condition equal to or better than the condition prior to beginning the project before final acceptance will be provided. Punch lists shall be responded to prior to issuance of an acceptance memorandum signed by the CSXT representative.

13) No construction or entry upon the CSXT corridor is permitted until the document transaction is completed, you are in receipt of a fully executed document, and you have obtained authority from CSXT's.

14) The front of the 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. The bore head / auger set-up (sketch or photos) shall be submitted by contractor and accepted by assigned CSXT representative prior to start of the jack & bore.

15) The operation shall be progressed on a 24-hour basis without stoppage (except for adding lengths of pipe) until the leading edge of the pipe has reached the receiving pit.

16) The auger and cutting head arrangement shall be removable from within the pipe in the event an obstruction is encountered.

17) Pipeline shall be prominently marked at both sides of the CSXT property lines by durable, weatherproof signs located over the centerline of the pipe in accordance with CSXT specifications.

18) If required, a dewatering plan in accordance with CSXT specifications will be submitted to the CSXT representative for review and approval prior to any dewatering operations. Dewatering drawdown level at tracks shall be field verified that it meets the approved dewatering design prior to commencement of jack and bore operations.

19) Blasting is not permitted under, on, or adjacent to CSXT property.

Revised January 31, 2023

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20) Jacking pit: identify hazards and put controls in place prior to start of excavation. Contractor shall erect a barrier and construction fence along the face of jacking pit construction limits and not encroach past it when preparing the pit. Stake or mark pit as needed for digging. Erosion control devices shall be placed at the jacking and receiving pits protecting CSXT property and ditches to the satisfaction of the CSXT representative.

21) Excavation: If the excavation is 5 feet or greater in depth, the walls may be sloped at 1.5 horizontal to 1 vertical to reduce the risk of cave-ins or slides. A safe manner in which to enter and exit the excavation must be established. The toe of slopes in excavation shall in no case be undercut by power shovels, bulldozers, graders, blasting, or in any manner. Excavation shall not be made in excess of the authorized cross-section.

22) Backfill, cover or fence all excavations when unattended. The CSXT representative will approve the protection method and the type of fencing material. Set fencing back at least 3 feet (91 centimeters) from the edges of the excavation. Set fence posts securely in the ground and insure the fencing is securely tied to posts with zip ties or some other tie wrap product.

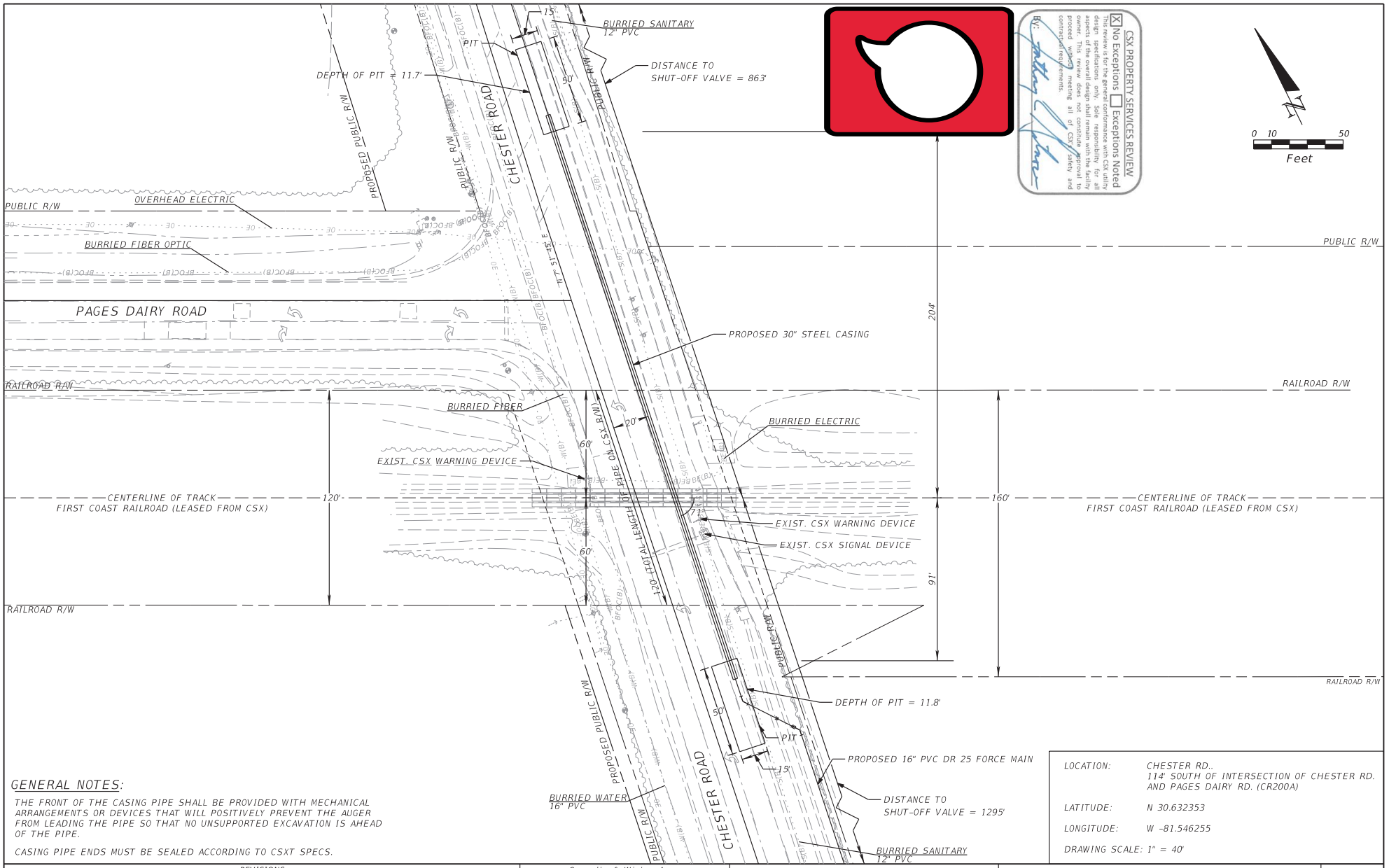
23) For any excavations permitted on CSXT property, all backfill in excavations and trenches shall be compacted to 95% maximum dry density as defined in ASTM standard d1557 and installed in six-inch lifts. In-situ soil shall be used for backfill material. Should additional offsite backfill material be needed, offsite material sources are to meet state and residential clean fill requirements and be preapproved by CSXT's representative. CSXT does not require a specific testing requirement or standard for stone.

24) Track monitoring: prior to commencing jack & bore operations, contractor shall be required to conduct and submit a baseline survey along the top of each rail under CSXT flagger protection and in accordance with the preapproved settlement monitoring construction submittal. Additional survey data shall be collected and submitted once each day during casing pipe installation, or as directed by CSXT representative. Contractor shall also take elevation shots at top of tie and top of casing pipe before starting the bore to verify depth of cover proposed for the work has been met.

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

26) CSXT does not represent or warrant the right-of-way dimensions depicted on these drawings. A third party survey is recommended for verification and accuracy.

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:

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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

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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	

JACK AND BORE PLAN VIEW

SHEET NO.

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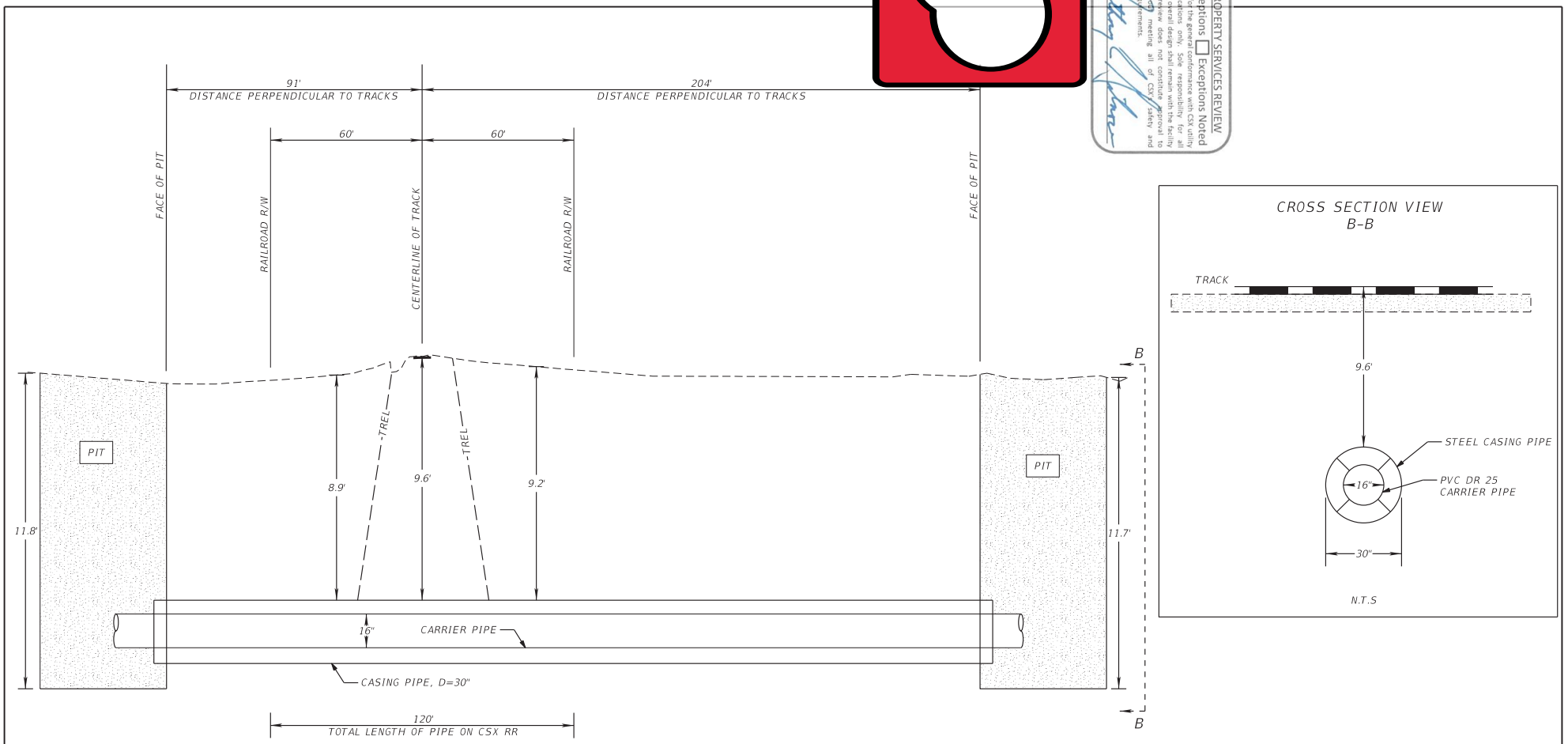

CSX PROPERTY SERVICES REVIEW
☒ No Exceptions ☐ Exceptions Noted
This review is for the general conformance with CSX utility design specifications only. Sole responsibility for all aspects of the overall design shall remain with the facility owner. This review does not constitute approval to proceed without meeting all of CSX's safety and contractual requirements.
By:

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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	

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Engineer of Record:
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NASSAU COUNTY ENGINEERING

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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.

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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

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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.

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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

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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: _____

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Note: Date of Bond Must Not Be Prior to Date of Contract

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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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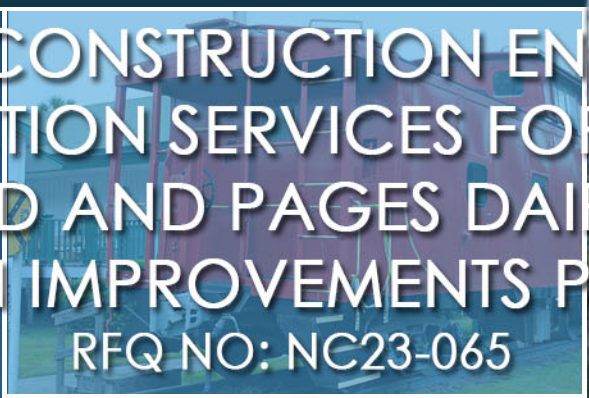
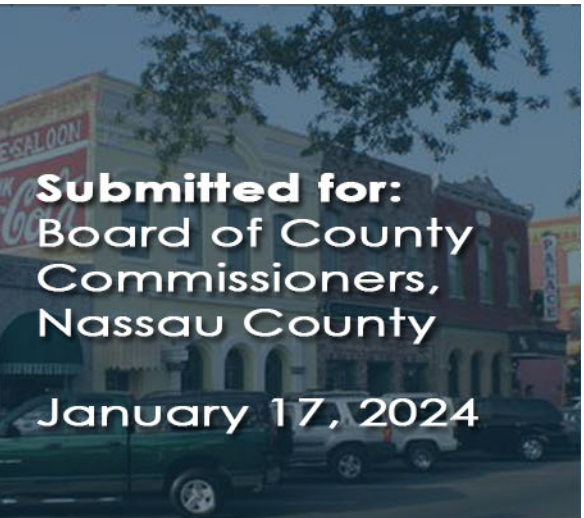
EXHIBIT "B"
VENDOR'S RESPONSE DATED JANUARY 17, 2024, BUT ONLY TO THE EXTENT RESPONSIVE TO THE RFQ

NASSAU County

PROFESSIONAL CONSTRUCTION ENGINEERING INSPECTION SERVICES FOR CHESTER ROAD AND PAGES DAIRY ROAD INTERSECTION IMPROVEMENTS PROJECT

RFQ NO: NC23-065





Submitted for:
Board of County Commissioners, Nassau County

January 17, 2024

CSIGeo
Geotechnical · CMT · CEI

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CSIGeo
Geotechnical · CMT · CEI

January 17, 2024

Nassau County Board of County Commissioners
c/o John A. Crawford, Ex-officio Clerk
Robert M. Foster Justice Center
76347 Veterans Way, Suite 456
Yulee, Florida 32097

RE: REQUEST FOR QUALIFICATIONS – PROFESSIONAL CONSTRUCTION ENGINEERING INSPECTION SERVICES FOR THE CHESTER ROAD AND PAGES DAIRY ROAD INTERSECTION IMPROVEMENTS PROJECT - RFQ NO. NC23-065

CSI Geo, Inc. (CSI Geo), a FDOT certified DBE firm, is pleased to submit our interest and qualifications to provide **Professional Construction Engineering Inspection (CEI) Services for Chester Road And Pages Dairy Road Intersection Improvements Project** to Nassau County. The staff at CSI Geo has been providing quality CEI, geotechnical engineering, and construction testing services for over two decades throughout the state of Florida for various municipalities including Nassau County. Additionally, some of the work that we have performed for the FDOT has taken us to various locations throughout Nassau County and surrounding areas. We are confident that we can provide the County and its residents with sound CEI services that will be performed on time and within budget.

FIRM'S LOCATION	PRIMARY CONTACT
2394 St. Johns Bluff Road, South, # 200	William R. Price
Jacksonville, Florida 32246	President, CEO
Ph: (904) 641-1993	wprice@csi-geo.com
Fx: (904) 645-0057	

CSI Geo, Inc. has been providing Construction Engineering and Inspection services for over 16 years. Our experienced team of professionals are more than qualified to perform the required services for this project. We offer Nassau County the following:

- Community Relations: With an understanding of the importance of maintaining positive community relations, our team will work hard to ensure that the traveling public and affected residents are kept thoroughly informed of the project's progress. Keeping positive public perception is an important detail of any construction project.
- Experience: Our Senior Project Engineer, Mr. Karle Maye, PE, brings more than two decades of experience in construction engineering inspection and quality assurance/quality control. His extensive project experience includes construction engineering and inspection, construction inspection, pavement evaluation, and materials testing.
- Staff Ability: CSI Geo invests heavily in personnel training, including acquiring certifications and encouraging continuing education for our engineers, technicians, and inspectors beyond the requisite minimums.

Our CEI staff has provided excellent services on similar projects with multiple local municipal governments including Putnam County, Seminole County, Jacksonville Transportation Authority, and City of Jacksonville. Over the years,

CSI Geo, Inc.
2394 St. Johns Bluff Road S, #200 • Jacksonville, Florida 32246 • 904.641-1993

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we have established a reputation for meeting project deadlines, and have maintained a highly motivated staff to meet challenging schedules that arise during various phases of engineering inspection projects. Our staff can

effectively coordinate with Nassau County, FDOT, and the public, as well as the ability to adhere to budget limitations to ensure that quality work is completed in a timely and cost-effective manner. The staff of CSI Geo are well organized and have a detailed knowledge of the various involved agencies' protocols.

Why select the CSI Geo Team?

- We are committed to providing the County with the best possible construction inspection and engineering services.
- We have an exemplary professional team with a strong reputation for service, selected to provide proven professional services to the County.
- Our project team members are thoroughly familiar with the local area, its characteristics, and conditions - our personnel have worked on similar projects throughout northeast Florida and are adept at smoothly coordinating all aspects of the project to the client's satisfaction.

FDOT Pre-qualifications: CSI Geo is pre-qualified for the required work types **9.3, 10.1, 10.3, and 10.4.**

We are confident you will find this proposal demonstrates our thorough understanding of the project and our ability and strong commitment to carry out all contract requirements. We appreciate your time and consideration in reviewing our proposal and we look forward to working with the County to bring this contract to a successful conclusion.

Respectfully,
CSI GEO, INC.

William R. Price
President, CEO

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3. Team Organization, Experience and Qualifications

A. Firm Description

CSI Geo has been providing construction engineering inspection, geotechnical and construction materials testing services since 2007. The firm was founded by Mr. William R. Price, a seasoned veteran of Earth Sciences, Construction Materials Testing (CMT) and Construction Engineering and Inspection (CEI) services.

Our Construction Management/CEI Team approaches each project with the primary goal of reducing cost and minimizing the time impacts to the schedule. Our staff operates intimately with the owner and contractor to maintain constant communication during design and construction. Our CEI managers, inspectors, and technicians provide observation and monitoring of construction projects for a wide variety of clients, both private and government. Our experience in construction management/construction engineering inspection services include project management, construction management services, cost estimating services, quality assurance inspection services, constructability review, and engineering design/review services, civil, structural, geotechnical/soils engineering seepage analysis and modeling, slope stability analysis and modeling, soils investigations, foundation studies, soils exploration, laboratory testing, and various soil mechanics studies. CSI Geo provides a full range of engineering services for water resources development and management, roadway and bridge construction, site development, drainage design, and construction permitting. We also have a full soils and concrete laboratory facility at our corporate office in Jacksonville, which is FDOT and USACE certified.

B. Firm's Years of Experience and Project Experience

In business since 2007, CSI Geo has become one of the leading SBE, MBE, DBE, LSBE, and JSEB in the southeastern United States. CSI Geo is a **Jacksonville**, Florida based multi-disciplined Geotechnical, CMT and CEI consulting firm with branch offices in **West Palm Beach**, **Atlanta**, and **Augusta**.

William "Bill" Price founded both CSI Geo, Inc. in 2007 and Civil Services, Inc. (CSI) in 1989 in Jacksonville, Florida. Mr. Price's composed, well-respected leadership, and philosophy that guided CSI to its accomplishments and success has been migrated to the highly qualified professionals and technical staff of CSI Geo. Our total independent ownership has complimented our services for inspection, design, material testing, and constructability reviews, etc. in Nassau County and the Southeast. He also knows the pulse of the Nassau County by being on several American Beach Community boards and shares his interest in the North Florida Land Trust.

CSI Geo is headquartered in Jacksonville, Florida, and is composed of over 48 highly qualified engineers, inspectors, technicians, and managers. Since CSI Geo's conception our organization and structure has been based on a foundation of three major departments providing construction engineering inspection, QA/QC construction materials testing, and geotechnical services. CSI Geo's experience with construction inspection and evaluation of transportation conditions extends from rural county roadways and bridges over the St. Johns River to cargo port docks, levees, major roadways, site/civil projects, trails/parks, and water/wastewater systems. Our construction inspection and construction management experience include inspection of asphalt and concrete paving, drilled shafts, driven piles, auger cast piles, cantilevered and anchored sheet pile walls, sound barrier walls, retaining wall systems, ground improvement program and installation, shallow foundations, and backfill embankments for slope stability. We have a fully equipped

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in-house soils, concrete, and asphalt testing laboratory, ***certified by FDOT, AMRL/CCRL/AASHTO, and USACE.***

As a multi-disciplined firm, we understand the requirements for CEI QA laboratory testing and asphalt plant inspections. Specifically, with this CEI Services contract we anticipate providing a high volume of soil, concrete, and asphalt testing verification inspection services. *Our unique in-house asphalt plant inspection capability should elevate us above our competitors with coordination between field and asphalt plant personnel being smooth and efficient*. In addition, our soils and concrete laboratory capability eliminates all chain-of-custody and any professional liability issues.

EXPERIENCE AND EXPERTISE OF FIRMS ON SIMILAR PROJECTS

As a small multi-disciplinary corporation, CSI Geo can offer clients a single point of access for numerous services without a lot of management layers.

Specifically, for this size and type of project, these services are provided with the same level of personal attention and expertise, usually synonymous with more specialized firms. The CSI Geo team offers Nassau County the following types of services:

Review Shop Drawings, Catalog Data, Concrete and Asphalt Mix Designs, Schedules

During the life of the project, our staff will review shop drawings for completeness prior to submitting them to the EOR for final acceptance. Concrete and asphalt designs will be reviewed and approved depending on strength and pavement requirements. Data cataloging will be maintained electronically, and contractor schedules will be closely monitored. Reviewing asphalt mix designs will be our CMT Department Manager for this contract, Liam Capstick, PE.

Monitoring and Documenting Construction Progress

CSI Geo's team has a wealth of knowledge and experience in all types of FDOT funded projects (LAP, SCOP, SCRAP, TRIP, and CIGP), county, city, and federal projects and understands the documentation required to successfully close-out and complete a project. Our on-site inspection personnel monitor construction activities and inspect/tests incorporated materials for compliance with plans, specifications, and special provisions of the project.

Coordinating Quality Control Testing

As mentioned previously, CSI Geo's in-house field and laboratory testing capabilities gives us and the County an advantage with coordinating QA/QC testing. There will not be a need to coordinate with another subconsultant firm to pick up samples to verify the QC testing and sampling. All the QA asphalt, laboratory, concrete testing will be performed and verified by CSI Geo. This expedites testing results, eases coordination, and eliminates chain of custody issues.

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Review of Construction Test Results

The CSI Geo team is experienced with the entire CMT field and laboratory review test result process that will be needed on this type of project. Based on our experience on similar projects, we are aware of the minimum sampling frequencies set out in the FDOT Materials Sampling, Testing and Reporting Guide. We provide daily observation of the Contractor's Quality Control efforts and perform sampling/testing of materials incorporated in projects confirming contract specifications are met. In addition, CSI Geo has an in-house electronic sample tracking system, ElmTree, that records and tracks all reports electronically. Our **ElmTree Management Software** tool has been previously used on some of your similar projects for tracking, sampling and testing. **All reports can be electronically accessed by the County and contractor at any time.**

Review of Contractor Schedules, Progress Payments and Change Order Requests

The CSI Geo team fully understands the importance of tracking contact modifications and change orders. An engineer's analysis is performed for all schedule/budget contract changes and is included with our recommendations to the County. All efforts are made to resolve conflicts in the most expedient manner and at the lowest level. Our staff is familiar with the use and interpretation of Primavera, Microsoft Project, and ClaimDigger software for scheduling and project management, and are adept at reviewing, using, and interpreting bar chart schedules.

SR 25 (US-41), CR 252 To SR 47 Milling & Resurfacing

CSI Geo, Inc. provided construction engineering inspection services for this milling & resurfacing project in Lake City, Florida. The length of the project was approximately 1.6 miles from CR 252 to SR 47 on SR 25 (US-41). The project was a Hybrid project and the inspectors reported directly to the FDOT Project Manager.

Work included milling and resurfacing of the existing four-lane roadway, widening existing turn lanes to improve safety, drainage improvements, stabilized subgrade, limerock & asphalt base, curb & gutter, sodding, erosion control, signing and signalization, maintenance of traffic and. coordination with utility companies. The project was completed on time and within budget and there were no complaints from the businesses within the project limits or the traveling public.

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US 1 @ SR 206 Intersection Improvements

CSI Geo, Inc. provided construction engineering inspection services for this intersection improvement project. The length of the project was approximately 0.5 miles from just south of SR 206 to just north of SR 206. The project was a Hybrid project and the inspectors reported directly to the FDOT Project Manager.

Work included milling and resurfacing of the existing four-lane roadway, widening existing turn lanes to improve safety, drainage improvements, stabilized subgrade, limerock & asphalt base, sodding, erosion control, signing, and maintenance of traffic. The project was completed on time and within budget and there were no complaints from the businesses within the project limits or the traveling public.

I-295 MANAGED LANES FROM BUCKMAN BRIDGE TO I-95

Through our FDOT Districtwide construction materials contract, CSI Geo provided VT construction materials testing services for this Interstate widening project. The project consisted of widening SR 9A (I-295) to a 10-lane section within the existing Limited Access Right of Way from the Buckman Bridge to the I-95 South Interchange. Mr. Lloyd provided all supervision of laboratory materials tests, including earthworks, aggregate, concrete, and asphalt. Provided consulting services during construction including field visits, planning, and estimating the proposed roadway improvements will require both inside widening and outside widening of the existing roadway and bridges along the project length. This design of this portion of I-295 included up to four “express lanes.” Design features were also ITS features necessary for implementation of an express lane system. These systems are Dynamic Message Sign (DMS) Boards and Toll Gantries mounted on drilled shaft foundations.

We have provided these services on other similar projects such as:

- Riverplace Boulevard Pedestrian and Bicycle Improvements, Jacksonville, Florida
- CR 216 Widening and Resurfacing, Putnam County, Florida
- Ashley Lake Drive & Blvd Residential Dirt to Pavement Project, Putnam County, Florida
- Emerson Street (SR 126) from Spring Park Road to Hart Expressway, Jacksonville, Florida
- SR 115 (Lem Turner) Various Drainage Improvements, Jacksonville, Florida

Full project descriptions are included in Tab 6 – Related Experience and References

Conduct Progress Meetings as Required

CSI Geo has found progress meetings are a vital tool for the success of all construction projects regardless of the size. Progress meetings provide a clear understanding of issues and promote effective communication among CSI Geo management, contractor staff, and the owners. Major milestones, utility conflicts, budget, testing, and key elements in the project are identified and presented along with the anticipated work activities necessary to accomplish the project goals.

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COMMUNICATE AND WORK EFFECTIVELY

CSI Geo has built lasting relationships with county agencies, municipalities, and the DOT and their respective staffs. We would not have been able to build these relationships without the ability to communicate and work effectively with individuals on a daily basis. Most of our business comes from repeat clients, not only for the ability to provide excellent services, but also for our capability to work effectively with others.

Our Senior Project Engineer and Project Administrator has worked either as a Consultant and or Public Works Project Manager and understands the consequences of public scrutiny. Both are well versed in briefing the Senior County Staff and BOCC members, as requested by the County, to discuss issues, construction progress, handling of residential complaints, and providing solutions. CSI Geo understands the importance of keeping the public informed, satisfied the project is being completed on time, within budget, and to the County and resident's satisfaction.

All team members understand their role on the project and the roles of others so that proper communication is accomplished and maintained. Prior to the pre-construction meeting, the CSI Geo team will meet with the Nassau County Project Manager to establish what is expected, the formats preferred, and deadlines for submittals. At the pre-construction meeting, a progress meeting schedule is established, and proper communication channels are determined. This enables Nassau County, the contractor, and other stakeholders to have the assurance any communication will be processed in a timely manner. The CEI team maintains open dialogue with the Nassau County Project Manager on all issues, both project and CEI contract related.

PROJECT BUDGETS AND SCHEDULES

We are comprised of a talented group of engineers, inspectors, and administrative staff with extensive experience in CEI, CMT, and knowledge of the construction process from conception to completion. We are staffed with several Senior Professional Engineers who can review the plans and shop drawings, and review RFI's from the Contractor and suggest resolutions to the Engineer of Record. The Project Administrator works in the field daily with the contractor to resolve issues as they arise with the goal of keeping the project on schedule and on budget. The inspection staff members are on site to oversee the contractor's operations, to ensure that the specifications are followed, that construction is built within the tolerances and to the intent of the plans, and to ensure that an accurate "As Built" set of plans is created. The administration staff helps keep the process of meeting minutes, correspondence, record keeping, contractor payments, and other basic office functions flowing smoothly on a daily basis.

ABILITY TO MEET BUDGET AND COST LIMITATIONS

CSI Geo is aware that adhering to our client's budget cost limitations is necessary for project success and thus encourages repeat business for our team. We strive to maintain an inspection staff that covers all project activities while adhering to the project budget, meets the required maintenance of traffic requirements, meets safety standards, and knows the specifications and standards. We understand that each day our clients entrust CSI Geo with an important job, and we intend to do the very best job we can do to safeguard their funds. We are proud of the fact that projects the CSI Geo team administers are completed on time and under budget. Two examples of projects where we completed within the allotted time and under CEI budget are Putnam

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County's Ashley Lake Drive & Blvd Residential Dirt to Pavement Project and FDOT's SR 20 Resurfacing (CR 325 to W. of US 301) project.

ABILITY TO MEET ESTABLISHED SCHEDULES

CSI Geo understands communication is critical in administering a CEI contract. Our staff will exercise independent professional judgment while carrying out the responsibilities required for this contract. Issues will be analyzed, and solutions will be presented for concurrence with Nassau County's Project Manager. CSI Geo will be diligent with regard to inspecting all operations and keeping the Project Manager up to date on the progress of construction, the performance of the Contractor, and any materials testing results. The CSI Geo team will staff the project in accordance with the contractor's operations. If the contractor has personnel on site, the inspection staff will always be available for documentation and verification of the contractor's activities.

Before the project begins, CSI Geo will review the contract plans, review existing permits, check the status of utility adjustments, and coordinate with utility companies if utility work is incomplete; review existing field conditions, check for possible erosion problem areas during construction, review the contractor's baseline schedules, video the project, and develop a project specific safety plan.

C. PROJECT TEAM

CSI Geo has put together a team for Nassau County with extensive experience, local knowledge, and familiarity with County standards. Our staff is available to start work on this project upon Notice to Proceed.

The CSI Geo Team is comprised of a talented and driven group of engineers, inspectors, and administrative staff with extensive experience in CEI, CMT, and knowledge of the construction process from conception to completion. The team is staffed with a Senior Project Engineer (SPE) who can review the plans and shop drawings, review RFI's from the contractor, and suggest resolutions to the Engineer of Record. The Project Administrator works in the field daily with the Contractor to resolve issues as they arise with the goal of keeping the project on schedule and on budget. The inspection staff are on site to oversee the Contractor's operations, ensure specifications are followed, construction is built within tolerances and to the intent of the plans, and to ensure creation of accurate "As-Built" plans.

KEY PERSONNEL

Karle Maye, PE – Senior Project Engineer / kmaye@csi-geo.com

Mr. Maye, PE has over 30 years of engineering experience in construction of transportation projects including project administration, materials sampling, testing acceptance, and final certification of major road and bridge projects. He has served as a Senior Project Engineer on the construction of various intersection improvement projects for FDOT in District Two, and on a landfill project for Citrus County; Bituminous Materials Engineer for the District Two Materials office; and as a Materials Certification Engineer at the State Materials Office for FDOT Construction projects statewide.

James Cuneo, PWM – Project Administrator / jcuneo@csi-geo.com

Mr. Cuneo has over 10 years of experience in horizontal and vertical construction. He has worked on FDOT, county, and other agency projects as a Project Administrator, Inspector, Contract Support Specialist, and Resident Compliance Officer, and is familiar with performing concrete, asphalt, soil testing and inspection in the field as well as the laboratory, FDOT invoicing, weekly, monthly, and final estimates, EEO/DBE contractor compliance and contract management.

Dennis Smith – Senior Inspector / dsmith@csi-geo.com

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Mr. Smith has over 29 years of experience in a vast array of construction material testing and inspection. He is experienced in all necessary soils, concrete, and laboratory testing such as LBRs, proctors, sieve analysis, Atterburg Limits, etc. He has provided utility relocation and verification for sewer, water and various other utilities. He excels in visual and non-destructive testing of structural steel including methods of magnetic particle, ultrasonic, radiographic, and penetrant testing of welded assemblies. Mr. Smith has extensive experience performing structural steel shop inspection for FDOT including monitoring and inspecting coatings and is very familiar with the Department's Standard Specifications as they relate to structural steel. Additionally, he has performed high strength bolting inspection and destructive testing and has gained extensive experience inspecting building construction at all levels.

Shams Horri – Senior Inspector / shamsh@csi-geo.com
Mr. Horri has over 18 years of experience in roadway construction serving as a CEI Inspector and Quality Control/Verification Testing Technician. He is well versed in the testing of soils, densities, pipe installation activities, concrete placement and testing, and asphalt related activities.

Sampson Reamy – Inspector / sreamy@csi-geo.com
Mr. Reamy has more than 20 years of experience in the transportation and construction industry and has worked as an Inspector/Quality Control/Verification Testing Technician for more than 12 years. He is well versed in the testing of soils, densities, pipe installation activities, concrete placement and testing, drilled shaft inspection and asphalt related activities.

Liam Capstick, PE – CMT Manager / lcapstick@csi-teo.com
Mr. Capstick has over 10 years of experience in Construction Materials Testing (CMT) and Geotechnical Engineering. His experience includes state, federal, municipal, and local government agencies as well as commercial clients. His responsibilities include conducting and directing field test sampling, inspections, and engineering analysis for commercial CMT and Geotechnical projects. This includes testing and inspection of concrete foundations and walls, aggregate piers, roadways, embankments, bridges, levees, stormwater retention facilities, culverts, signal and sign structures, sewer/water supply lines, commercial structures, port/coastal facilities, and aviation facilities. Other features of these projects have included shallow foundations, deep foundations, geosynthetic reinforced slopes, and mechanically stabilized earth structures.

Olia Lloyd, III – Field QC Manager / olloyd@csi-geo.com
Mr. Lloyd's 17 years of experience includes quality control testing and inspection services for laboratory concrete and soils testing, as well as assuring compliance with applicable specifications, standards, and drawings. His background also includes concrete paving, storm drainage and utility line installations, box culverts, bridge and bridge structures, as well as earthwork inspection and testing. He is very familiar with all aspects of construction inspection and provides project management assistance.

Josiah Hughes – Laboratory Manager / jhughes@csi-geo.com
Mr. Hughes is responsible for maintaining and updating the Quality Management System (QMS) in accordance with the requirements of AASHTO R-18. He is also responsible for coordinating the calibrations, inspections, and accreditations of our laboratory. He leads the day-to-day lab operations, ensuring the efficient performance of testing on our VT contracts.

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*SUBCONSULTANTS – AS NEEDED

To strengthen our team, we are joined by subconsultants with which we have a history of working with.

RS&H, Inc., as a firm, operates as five disciplined, client-focused practices serving various state departments of transportation, mobility/transportation authorities, turnpike/toll authorities, rail/port authorities, municipal/county governments, and private clients throughout the United States. Our Transportation Construction Management (CM) practice focuses on representing various State DOT's, Turnpike Authorities, and Local Municipalities in the field of Construction Engineering and Inspection (CEI). Our CM practice has been in the business of consultant CEI services since 1984 and accounts for approximately 25% of the overall company of 1,500 associates. We have been performing CE&I project management and have successfully delivered construction projects to over 50 clients in 7 different states over that time period. RS&H proudly serves many long-term clients for roadway and bridge projects, some of which we have worked with for over 20 years!

Headquartered in Jacksonville, Florida, Eisman & Russo, Inc. maintains regional offices throughout the state. These full service and field offices position Eisman & Russo for prompt response, fast mobilization and cost-effective solutions. We are a full-service engineering firm providing planning, design and construction services from initial concept through final certification. We serve public and private sector clients including county, state, and federal government agencies, municipal agencies, schools, private utilities, contractors, architects and developers.

To meet the challenges posed by tight project delivery schedules, strict budgets resulting from a post-pandemic recovery, as well as construction inflation and regulatory conditions, clients call on the expertise we have built in more than 35 years of experience and the successful completion of thousands of projects.

Eisman & Russo is committed to client-centered relationships to enhance the transportation infrastructure and services of our communities through visionary planning, innovative design and modern methods of construction. Our approach to each project is consistent and proven; and at its core, it is to enhance and better connect our communities by improving mobility, safety and quality of life.

Gibbs Group, Inc. is an engineering and construction services firm headquartered in Jacksonville, Florida started in 2007. With a professional registration through the National Council of Engineers Examiners and Surveyors (NCEES), our capabilities and professional licensure(s) provides us the ability to provide professional engineering services throughout most of the United States. Having a unique blend of project experience, in both the public and private sectors, Gibbs Group, Inc. specializes in various aspects of CEI; civil and structural engineering; construction material testing and a variety of field and laboratory engineering services. The staff we have assembled consisting of structural engineers, consultants, inspectors and construction material testing technicians have a combined experience of over 60 years. Our professional creed is "To Provide Professional Quality Solutions for Today's Expanding Environment."

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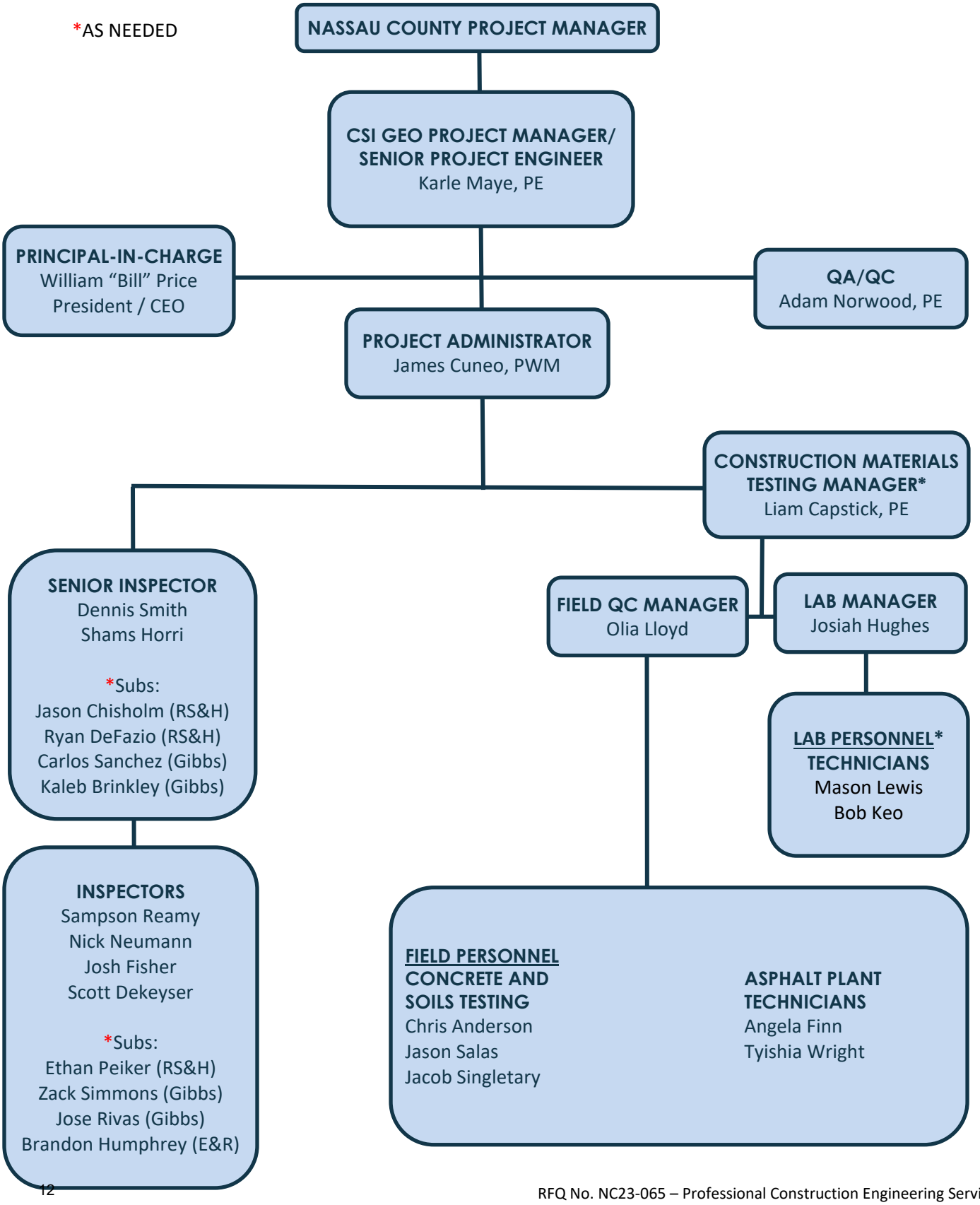
ORGANIZATIONAL CHART

*AS NEEDED



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KARLE A. MAYE, PE

CEI Senior Project Engineer

EDUCATION
BS, Mechanical Engineering
University of Florida, 1990

REGISTRATIONS
Professional Engineer, Florida, 64016, 2006

Professional Engineer, Georgia, PE041091, 2016

CERTIFICATIONS

- CPN Nuclear Density Gauge Safety Certification
- FDOT QC Manager (CTQP)
- FDOT Final Estimates I & II (CTQP)
- FDEP Stormwater Management Inspector
- FDOT Advanced Maintenance of Traffic
- FDOT Critical Structures Construction Issues Self Study
- SSPC BCI Coatings Inspector Level I (#73947)(Exp.)
- SSPC C-3 Supervisor/Competent Person for Deleading Structures(Exp.)
- **GWI –** RWP & E.I.C Annual Training
  Exp 5/15/2021

TIN: M000501643430

Mr. Maye has over 26 years of transportation engineering experience in construction of transportation projects including project administration, materials sampling, testing acceptance and final certification of major road and bridge projects. He has served as a Project Engineer on the construction of three intersection improvement projects for FDOT in District Two, a landfill project; Bituminous Materials Engineer for the District Two Materials office; and as a Materials Certification Engineer at the State Materials Office for FDOT Construction projects statewide.

PROJECT EXPERIENCE

Ramona Blvd. Widening Project, COJ, Jacksonville, FL
Sr. Project Engineer. The project is a Design-Build and included utility relocation, site clearing, earthwork, drainage, concrete, asphalt paving, and landscaping. Utility relocation involved moving a JEA watermain from the center of the roadway to the south side Right of Way. Improvements also included widening both sides of existing road to include center turn lanes, retention ponds, curb/gutter, lighting, signage, and striping. Project Manager: Jack Gabriel 904-255-8746 (04/2020 to 06/2021)

Riverplace Blvd. Streetscape Improvements, COJ, Jacksonville, FL
Sr. Project Engineer. Work included utility relocation, site clearing, earthwork, drainage, concrete, asphalt paving, hardscape, and landscaping. This was a "Road Diet" project reducing the current five lane roadway to three, one in each direction with a bi-directional center turn lane. Improvements also included bicycle lanes, brick paver sidewalks, seat walls, and trees. Project Manager: Jack Gabriel 904-255-8746 (08/2018 to 02/2020)

ADA Ramp Assessment, COJ, Jacksonville, FL
Sr. Project Engineer. Work included the field evaluation of over 2,000 ramps and analyzing what deficiencies exist and the possible challenges at each location. The assessment focused on the existing sidewalk widths, pedestrian detection devices, slopes, landing areas, utilities, and potential obstructions. Suggestions for improvements were submitted to the City to bring the non-compliant ramps up to current ADA standards. Project Manager: Dinah Mason 904-255-8832 (11/2017 to 04/2018)

SR 20 Resurfacing (CR325 to West of US 301), FDOT D2, Alachua County, Hawthorne, FL
Project Engineer. Work includes milling, resurfacing, drainage improvements, cross slope corrections, and striping. FIN 443258-1-62-01, FDOT PM Patrick Gallagher 352-381-4212 (03/2022 to Present) $6,173,212.31

SR 126 (Emerson Street) Mill & Resurface, FDOT District 2, Jacksonville, FL
Project Engineer. Work consisted of mill and resurface of parabolic crown roadway, curb and gutter, sidewalk, signal improvements. Project also included a JPA with JEA to install a new 12-inch water main from Spring Park Road to Sharon Terrace. Project Manager: Guelmary Mendez 904-360-5552 (07/2016 to 04/2017)

Various Drainage Improvements, FDOT District 2, Jacksonville, FL
Project Engineer: The work included desilting, pipe lining and replacement of existing drainage pipes, full depth reconstruction with and without flowable fill, subsurface pressure grout injection, milling and resurfacing, sidewalk replacement, and pavement markings, all in select locations on SR 115 (Lem Turner) and SR 104 (Dunn Ave). Reference: Project Manager Guelmary Mendez 904-360-5552 (01/2016 to 09/2016)

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SR 25(US 41) Resurfacing and Johnson Stripling Road Pave Shoulders, FDOT District 2, Lake City and Perry, FL
CEI Consultant Engineer. Responsible for providing construction inspection services for the milling and resurfacing SR 25 from CR 252 to SR 47 (428693-1-52-01). Contract also included paving shoulders and resurfacing mainline on Johnson Stripling Road from Pace Drive to Roberts Aman Road (429750-2-52-01). Responsibilities included coordination of inspection personnel, invoicing and contract management. Reference: Project Manager Ben Keen 386-961-7224 (05/2014 to 03/2016)

CEI Group 104 Projects, FDOT District 5, Clermont and Winter Garden, FL
Project Engineer. SR 50 from Hancock Road in Lake County to Remington Road in Orange County. Karle served as Project Engineer on this District Five project, which consisted of widening SR 50 from 4 to 6 lanes (238429-4-52-01). Work included earthwork, base, asphalt, sheet piling, MSE and gravity walls, anti-graffiti coating, signalization, signage, and striping. Karle's duties included reviewing and documenting construction activities, reviewing verification material testing and LIMS entry, reviewing contractor's quality control efforts, reviewing erosion control measures and jobsite MOT, assisting in the preparation of monthly and final estimates, daily coordination with Contractor representatives and DRMP's inspection staff, answering RFI's, resolving construction issues, and negotiation of extra work/cost with the Contractor.

CEI Group 98 Projects – Bridge Joint Rehabilitation on Multiple Bridges, FDOT District 5, Orlando, FL
Project Engineer. Karle served as Project Engineer on bridge joint rehabilitation for eight bridges on SR 400 (I-4) and SR 414 in Orange County (417780-1-52-01), which included joint replacement, header repair and crack injection/sealing. Reference: Project Manager Amy Scales 386-943-5729 (07/2008 to 10/2008)

Ashley Lake Dr. Dirt to Pavement Project Phase II, FDOT D2 Small County Outreach Program (SCOP), Melrose, FL
Sr. Project Engineer: Work on this project included converting a 5mile residential subdivision dirt road to a two-lane paved road. Coordination with design team, county staff, inspectors, utilities, contractor, sub-contractors, homeowner's association staff and residents. Work included tortious relocation, clearing and grubbing for shoulder widening and stormwater conveyance establishment, utility relocation, stormwater drainage structure placement, soil testing, signs, and thermoplastic pavement markings. Putnam County Public Works Assistant Director Mike Nimitz 386-329-0346 (10/2019 to 07/2020)

CR207A Bridge Over Dog Branch Creek, Putnam County, FL
Sr. Project Engineer: Project consist of complete removal of the existing double box culvert and wingwalls, channel excavation, construction of new, pile supported, three span bridge No. 764062 and approach slabs, channel protection, reconstruction of approach roadway and milling and resurfacing to project tie-in to existing grade. Project Manager Putnam County Public Works Assistant Director Mike Nimitz 386-329-0346 (10/2019 to 4/24/2020)

Ashley Lake Dr. Dirt to Pavement Project Phase I, FDOT D2 Small County Outreach Program (SCOP), Melrose, FL
Sr. Project Engineer: Work on this project included converting a 5mile residential subdivision dirt road to a two-lane paved road. Coordination with design team, county staff, inspectors, utilities, contractor, sub-contractors, homeowner's association staff and residents. Work included tortious relocation, clearing and grubbing for shoulder widening and stormwater conveyance establishment, utility relocation, stormwater drainage structure placement, soil testing, signs, and thermoplastic pavement markings. Putnam County Public Works Assistant Director Mike Nimitz 386-329-0346 (12/2018 to 09/2019)

SR 19 Left Turn Lane at Point of Woods Subdivision, Putnam County, Palatka, FL
Construction Project Engineer. Responsible for providing construction engineering inspection services for the construction of a left turn lane from SR 19 into Point of Woods subdivision (424359-1-58-01). SR 19 was in need of engineering and construction services for a left turn lane at the subdivision that would improve conditions, as well as ease traffic flow in the area. Services included documentation of construction activities on the project daily, coordination meetings with utility companies, documentation of weather conditions, and tracking of quantities for estimate payments. Reference: Project Manager Felipe Rivera 386-329-0346 (07/2012 to 10/2012)

Jacksonville Transportation Authority - FCF SEBRT Avenues Walk Park-N-Ride, Jacksonville, FL
Sr. Project Engineer. Project consists of constructing a new Park-N-Ride facility, Administrative Building, and Access Road. Work includes site clearing, earthwork, drainage, concrete, asphalt paving, and vertical construction. Project Manager: Richard Schwabe 904-630-3180 (02/2018 to 12/2018)

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JAMES B. CUNEO, PWM
CEI Project Administrator

EDUCATION
American Public Works Institute
Indian River State College
Ft Pierce Florida, 2016

APWA Donald C. Stone
Public Works Manager Credentialed 2018

U.S. Maine Corps (Ret) 1988-2010

CERTIFICATIONS
Quality Control Manager (CTQP)
Final Estimates 1 & 2 (CTQP)
Asphalt Paving – Level I & II (CTQP)
Earthwork – Level I & II (CTQP)
Concrete Field Inspector Specifications (CTQP)
Pile Driving Inspector (CTQP}
Maintenance of Traffic (M.O.T.) – Advanced & Intermediate (CTQP)
FDEP Stormwater Sedimentation & Erosion Control Inspector
FDEP Stormwater Operator - Level 1
IMSA Traffic Signal Technician Level 1
IMSA Traffic Signal Inspector Level 1

APNGA Portable Nuclear Gage Safety & USDOT Hazmat Certification Class Exp 4/26/22

FDOT SELF STUDY
FDOT Cyber Security CBT
T.R.A.C.K. CBT Certificate
Pile Driving Inspector
Construction Math
Landscape Inspection
LTAP Webinar FL Greenbook Ch 1-20
Critical Structures Construction Issues

OTHER TRAINING
Haskell Safe Matters Training
40 Hr HAZWOPER
GWI – RWP & E.I.C Annual Training
OSHA 510 for Construction Industry
CPR, AED & EMR Cert
Notary Exp 10/2023

AVAILABILITY
90% Available

TIN: C500-442-70-143-0

Mr. Cuneo has over 10 years of experience in horizontal and vertical construction. He has worked on FDOT projects as an Inspector, Contract Support Specialist, Resident Compliance Officer and Assistant Project Administrator, as well as a Project Administrator with Putnam County Public Works for 5 of these years and is familiar with performing asphalt emplacement, soil testing and inspection in the field, FDOT invoicing, weekly, monthly, and final estimates, and EEO/DBE contractor compliance.

PROJECT EXPERIENCE

FDOT SR 20 (Hawthorn Road) from CR325 to West of US 301 Alachua County, Hawthorne, FL
Senior Inspector: Work included milling, widening, resurfacing, drainage improvements, cross slope corrections and striping FDOT PM Patrick Gallagher, FIN 443258-1-62-01 (03/2022 to Present) $6,173,212.31

Greenland WRF & EWP, JEA-City of Jacksonville, Jacksonville, FL
Project Manager/Engineer for new construction of "E" Town's Water Reclamation Facility Early Works Package and Main WRF Site. Project included clearing and grubbing for a new paved 30' access road, 30" CLDI PC150 SIPS Water Main and Reclaimed Water Main, 20" Wastewater Sewer Main, 8" PVC C900 DR18 Potable Water Main placement, 15", 24", 36", 42" & 54" in drainage structure placement, 66 LF of (4) 12x6 box culvert construction, retention ponds and unsuitable material excavation, underground electrical corridor structures and utility placement. Jacobs PM David Stanley 904-303-2739 (07/2021 to 03/2022) $130,000,000.00

FDOT Statewide Traffic and Railroad Initiative Using Dynamic Envelopes (STRIDE) For CSX, FEC, FGA and NS, Northeast, FL, FIN 447031-1, 447031-2, 447031-3 and 447031-4
Assistant Project Administrator/Senior Inspector: Work on this project included removing existing railroad pavement markings and replacing with the Dynamic Envelopes, pavement messages, RPMs, center and edge lines in Nassau, Duval, Baker, St Johns, Putnam, Clay, Marion, Bradford, Alachua, Madison, Columbia, and Hamilton Counties. FDOT PM Sam Lansdale (04/2021 to 06/2021) $523,692.10

Ashley Lake Dr. Dirt to Pavement Project, FDOT D2 Small County Outreach Program (SCOP), Melrose, FL Phase II, FIN 436460-2
Project Administrator: Work on this project included converting a 5mile residential subdivision dirt road to a two-lane paved road. Coordination with design team, county staff, inspectors, utilities, contractor, sub-contractors, homeowner's association staff and residents. Work included tortious relocation, clearing and grubbing for shoulder widening and stormwater conveyance establishment, utility relocation, stormwater drainage structure placement, soil testing, signs, and thermoplastic pavement markings. Putnam County Public Works Assistant Director Mike Nimitz 386-329-0346 (10/2019 to 07/07/2020) $1,297,253.00

CR207A Bridge Over Dog Branch Creek, Putnam County, FL
Project Administrator: Project consist of complete removal of the existing double box culvert and wingwalls, channel excavation, construction of new, pile supported, three span bridge No. 764062 and approach slabs, channel protection, reconstruction of approach roadway and milling and resurfacing to project tie-in to existing grade. Project Manager Putnam County Public Works Assistant Director Mike Nimitz 386-329-0346 (10/2019 to 04/24/2020) $1,207,000.00

Riverplace Blvd. Streetscape Improvements, COJ, Jacksonville, FL
Project Administrator/CSS: Work includes utility relocation, site clearing, earthwork, drainage, concrete, asphalt paving, hardscape, and landscaping. This is a "Road Diet" project reducing the current five lane roadway to three, one in each direction with a bi-

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directional center turn lane. Improvements also include bicycle lanes, brick paver sidewalks, seat walls, and trees. Project Manager: Jack Gabriel 904-255-8746 (04/2019 to 02/2020)

Jacksonville Transportation Authority - FCF SE. BRT University Hub, Jacksonville, FL
Project Administrator: Project consists of constructing a new Park-N-Ride facility and Access Road. Work includes site clearing including pre-existing building demolition, earthwork, drainage, concrete, asphalt paving, and vertical construction. Project Manager: Wilbur "Wil" Wright (904) 630-3181 (04/2019 to 1/2020) $1,151,494.78

Jacksonville Transportation Authority - FCF SE. BRT Avenues Walk Park-N-Ride, Jacksonville, FL
Project Administrator: Project consists of constructing a new Park-N-Ride facility, Administrative Building, and Access Road. Work includes site clearing, earthwork, drainage, concrete, asphalt paving, and vertical construction. Project Manager: Teejay Leano 904-632-5516 (04/2019 to 10/2019) $1,223,244.00

Jacksonville Transportation Authority - FCF NBRT Pedestrian Improvements 2A & 2B, Jacksonville, FL
Project Administrator: Project consists of constructing and reconstructing new sidewalks on the following roads within the City of Jacksonville: Crestwood St, Lem Turner Cir, Lila St, Calvin St, Linda Dr, Rowe Ave, Oriole St, Gandy St, Smyrna St, Clyde Dr, Soutel Dr, Carey Ave, Bassett Rd, Capper Rd, Duval Rd, Robena Rd, Work includes site clearing and grubbing, demolition, excavation, earthwork, drainage culverts and DBI's, concrete driveways and sidewalks, ADA compliance Project Manager: Angie Williams (904) 716-0263 (04/2019 to 10/2019) 2A $843,511.00 & 2B $506,706.97

JTA First Coast Flyer – Park-N-Ride – SE. BRT Corridor Jacksonville, FL
Project Administrator/CSS: Project consists of construction of new Park-N-Ride facility and retrofit of existing building on Armsdale Road. Responsible for monitoring contractor's work progress and adherence to project documents on stabilized subgrade, limerock base, concrete, pavement markings, and maintenance of traffic. Also responsible for ensuring project is adequately staffed and invoicing. Project Manager: Wilbur Wright 904-630-3181 (04/19 - Present)

Ashley Lake Blvd & Dr. Dirt to Pavement Project, FDOT D2 Small County Outreach Program (SCOP), Melrose, FL Phase I, FIN 436460-1
Project Administrator: Work on this project included converting a 5mile residential subdivision dirt road to a two-lane paved road. Coordination with design team, county staff, inspectors, utilities, contractor, sub-contractors, homeowner's association staff and residents. Work included tortious relocation, clearing and grubbing for shoulder widening and stormwater conveyance establishment, utility relocation, stormwater drainage structure placement, soil testing, signs, and thermoplastic pavement markings. Putnam County Public Works Assistant Director Mike Nimitz 386-329-0346 (10/2018 to 09/2019) Phase I $1,163,789.86

St Johns Ave Resurfacing, FDOT D2 Small County Outreach Program (SCOP), Palatka, FL FIN 440003-1
Project Administrator: This project included resurfacing reconstruction of a 1.2-mile road. Coordination with design team, city staff, county staff, inspectors and contractor. Work includes milling, raising utility access conveyances, signals, resurfacing and thermoplastic pavement markings. Putnam County Assistant Public Works Director Mike Nimitz 386-329-0346 (06/2018 to 06/2019) $385,000.00

CR 20A Signage and Pavement Markings, FDOT D2 Local Agency Program (LAP), Interlachen, FL FIN 436033-1
Project Administrator/ CSS/ Inspector: This project included providing upgraded signage and enhanced pavement markings for a 10-mile paved road. Coordination with county staff, design team, CSX, FDOT LAP coordinator, and contractor. Work included removal of old signage and pavement markings, replacement of upgraded signs, thermoplastic pavement markings and RPM's. Putnam County Public Works Assistant Director Mike Nimitz 386-329-0346 (2018 to 2019) $350,000.00

Lake Susan Dr Reconstruction, FDOT D2 Small County Outreach Program (SCOP), Hawthorne, FL FIN 435331-2
Project Administrator/ CSS: Work on this project included converting a 2mile dirt road to a two-lane paved road. Coordination with design team, county staff, inspectors, utilities, contractor, and sub-contractors. Work included clearing and grubbing for shoulder widening, utility relocation, sub-grade stabilization, stormwater conveyance emplacement, base emplacement, soil testing, asphalt, signs, and thermoplastic pavement markings. Putnam County Public Works Assistant Director Mike Nimitz 386-329-0346 (2017-2018)

CR 216 Widening and Resurfacing, FDOT D2 Transportation Regional Incentive Program (TRIP), Palatka, FL FIN 434551-1
Project Administrator/ CSS/ Inspector: Work on this project included widening and resurfacing 2.2 miles of a highly utilized heavy industrial road supporting Georgia Pacific Paper Company (GPAC) operations. Coordination with design consultant, GPAC, contactors, sub-contractors and QC. Work included clearing and grubbing for shoulder widening, utility relocation, stormwater RCP drainage structure replacement, guardrail upgrades, adding entrance areas for GPAC expansion, density testing, signs, and thermoplastic pavement markings. Putnam County Public Works Assistant Director Mike Nimitz 386-329-0346 (2016 to 04/2019) $2,900,00.00

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DENNIS SMITH

CEI Senior Inspector

EDUCATION

Chanute Technical School, Chanute Air Force Base, Illinois

Radiographic Testing and Inspection, U.S. Air Force

CERTIFICATIONS

- Nuclear Density Gauge Safety
- ACI Concrete Field Testing Technician Level I
- ACI Concrete Transportation Construction Inspector
- FDOT Concrete Field Technician Level I (CTQP)
- FDOT Drilled Shaft Inspector (CTQP)
- Pile Driving Inspection I
- FDOT Asphalt Paving Inspection Level I & II (CTQP)
- FDOT Earthwork Construction Inspection Level I & II (CTQP)
- FDOT Intermediate MOT
- FDOT MSE Wall Course
- OSHA 10-hour Certified
- OSHA 40-hour Hazwoper Certified
- IMSA Traffic Signal Insp I
- FEMA Certifications:
  - ICS-100 Intro to Incident Command System
  - ICS-200 Single Resources & Initial Action Incident
  - NIMS Resource Management
  - NIMS Communication & Information Management
  - Intro to National Response Network

TIN: S530172630560

Mr. Smith has over 26 years experience in a vast array of construction material testing and inspection. He is experienced in all necessary soils, concrete, and laboratory testing such as LBRs, proctors, sieve analysis, Atterburg Limits, etc. He has provided utility relocation and verification for sewer, water and various other utilities. He excels in visual and non-destructive testing of structural steel including methods of magnetic particle, ultrasonic, radiographic, and penetrant testing of welded assemblies. Mr. Smith has extensive experience performing structural steel shop inspection for FDOT including monitoring and inspecting coatings and is very familiar with the Department's Standard Specifications as they relate to structural steel. Additionally, he has performed high strength bolting inspection and destructive testing and has gained extensive experience inspecting building construction at all levels.

PROJECT EXPERIENCE

Greenland WRF & EWP, JEA, Jacksonville, FL

Inspector for new construction of "E" Town's Water Reclamation Facility Early Works Package and Main WRF Site. Project included clearing and grubbing for a new paved 30' access road, 30" CLDI PC150 SIPS Water Main and Reclaimed Water Main, 20" Waste Water Sewer Main, 8" PVC C900 DR18 Potable Water Main placement, 15", 24", 36", 42" & 54" in drainage structure placement, 66 LF of (4) 12x6 box culvert construction, retention ponds and unsuitable material excavation, underground electrical corridor structures and utility placement. Jacobs PM David Stanley 904-303-2739 (01/2023 to Present) $130,000,000.00

5th & McDuff Roadway Improvements, JTA, Jacksonville, FL

Senior Inspector. Responsible for inspection and monitoring the installation of JEA force main and drainage. Work also includes earthwork, base, storm drainage, curb/gutter, asphalt, striping, signage, and sod. Reference: Jim Owens 904-733-1478 (10/2020 to 12/2022)

SR 8 (I-10) ITS CEI Services, FDOT District 2, Lake City, FL

Senior Inspector. Responsible for inspection and monitoring the installation of ITS equipment including conduit, light poles, message boards and connections. Work also includes directional bores, drill shafts and erosion control devices. Project limits are from I-295 in Duval County to Tallahassee in Leon County (213272-8-1-52-01). Reference: HNTB, Tom Woods 904-566-0931 (10/2018 to 09/2020)

SR 93 (I-75) ITS CEI Services, FDOT District 2, Lake City, FL

Seniorr Inspector. Responsible for inspection and monitoring the installation of ITS equipment including conduit, light poles, message boards and connections. Work also includes directional bores, drill shafts and erosion control devices. Project limits are from SR 24 in Alachua County to the Georgia State Line (427474-1-52-01). Reference: HNTB, Tom Woods 904-566-0931 (08/2015 to 10/2018)

SR 9A (I-295) ITS CEI Services, FDOT District 2, Jacksonville, FL

Inspector. Responsible for inspection and monitoring the installation of ITS equipment including conduit, light poles, message boards and connections. Work also includes directional bores, drill shafts and erosion control devices. Project limits are from I-95 to Atlantic Boulevard (209168-3-52-01). Reference: HNTB, Tom Woods 904-566-0931 (09/2014 to 08/2015)

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SR 25(US 41) Resurfacing and Johnson Stripling Road Pave Shoulders, FDOT District 2, Lake City and Perry, FL
Senior Inspector. Responsible for inspection of roadway widening, roadway reconstruction, milling/resurfacing, paved shoulders, drainage, striping and signalization for projects SR 25 from CR 252 to SR 47 (428693-1-52-01) and Johnson Stripling Road from Pace Drive to Roberts Aman Road (429750-2-52-01). Project Manager: Ben Keen 386-961-7224 (05/2014 to 09/2014)

Ash Remediation Project, City of Jacksonville, Jacksonville, FL
Inspector. Monitored the removal and restoration of ash contaminated soils and debris from the 5th & Cleveland site in Jacksonville, FL. Work included removal of contaminated soils, backfilling with new clean soils, and restoration of property to preconstruction conditions. The project was divided into stages where various parcels were done simultaneously to expedite the work and allow the contractor to lessen the impacts to residents. The work was performed in conjunction with the Department of Environment Protection and FDOT specifications. Reference: ETM, Jim Donchez, P.A., 904-759-1976 (11/2013 to 06/2014)

Improvements to I-10 Merger from US-17, FDOT District 2, Jacksonville, FL
Quality Control/Assurance Inspector. Provided testing and inspection of concrete, soil, and precast piles installation. Performed all concrete field and laboratory compressive strength testing for the superstructure and substructures, as well as soils testing for construction of embankments and sheet pile retaining walls.

Guideway Permanent Canopy, JTA, Jacksonville, FL
Inspector. Shop Inspector for welded fabrications and paint application. Field Inspector for weld applications and bolt torquing installations.

Total Water Management Plan (Segments 2 & 6), JEA, Jacksonville, FL
Resident Project Representative. Observed construction activities for conformance with the contract documents, specifications and plans. Documented installed quantities, daily activities, test procedures andresults. Project constructed using FDOT specifications.

Kernan Boulevard Improvements, JTA, Jacksonville, FL
Inspector. The improvements included the widening of Kernan Boulevard to six travel lanes (three in each direction), construction of a bridge overpass over Beach Boulevard, and construction of MSE walls. Other roadway improvements include the construction of a box culvert, a retention pond, mast arm signal structures, and overhead signs.

General Engineering Consulting for Underground Utilities, FDOT District 2, Districtwide
Inspector. Responsible for inspection and monitoring of relocation and adjustment of all utilities in right-of-way prior to new roadway construction; included soils, concrete, and paving testing and inspection, Maintenance of Traffic (MOT), restoration of landscaping, and protection of existing utilities.

Regency Bypass, JTA, Jacksonville, FL
Inspector. Responsible for assuring bolt torquing and field paint application specifications were adhered to for a four lane structure over Atlantic Blvd.

SR 212,(Beach Boulevard), JEA, Jacksonville, FL
Inspector. Monitored directional jack and bore at depths of 30” to 50” up to 3,000’ long; as well as placement of 8” water main and force main, and 2”, 4”, and 6” conduit for the Jacksonville Electric Authority; monitored placement of 600 and 900 par cable wire for Bell South.

SR A1A, St. Johns County, St. Augustine, FL
Inspector. Monitored underground directional bores and placement of water main and force main associated with a fire station for St. Johns County.

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SHAMSEDIN HORRI

CEI Senior Inspector

EDUCATION

BS Civil Engineering/University of New York at Buffalo, 1984

CERTIFICATIONS

- USACE Construction Quality Management for Contractors
- Radiation Safety and Use of Nuclear Gauges Certification
- FDOT Final Estimates Level 1 & 2 (CTQP)
- Advanced MOT (CTQP)
- Certified Erosion and Sediment Control Inspector – FDEP
- FDOT Earthwork Construction Inspection Levels 1 & 2 (CTQP)
- CTQP Concrete Field Tech Level 1
- ACI Concrete Tech Grade 1
- FDOT Asphalt Paving Technician Levels 1 & 2 (CTQP)
- Pile Driving Inspector (CTQP)
- IMSA Traffic Signal Inspector
- IMSA Traffic Signal Technician

TIN: H600780540210

Mr. Horri has over 20 years of experience in roadway construction serving as a CEI Inspector and Quality Control/Verification Testing Technician. He is well versed in the testing of soils, densities, pipe installation activities, concrete placement and testing, and asphalt related activities.

PROJECT EXPERIENCE

SSA Jaxport Container Yard and Gate Facility Upgrades, JPA, Jacksonville, FL
Senior Inspector: Responsibilities include inspection of contractor operations; interacting with and handling all submittals in and out of project record; assists with monthly reporting, oversee and schedule coverage of inspection team, create and follow through on inspection plans, responsible for overall QA reporting, advises on claim management; reports to lead Senior Engineer and Construction Manager and/or client team as required. Reference: Jeff Carpenter 904-945-5909 (06/2022 to Present)

5th & McDuff Roadway Improvements, JTA, Jacksonville, FL
Senior Inspector. Responsible for inspection and monitoring the installation of JEA force main and drainage. Work also included earthwork, base, storm drainage, curb/gutter, asphalt, striping, signage, and sod. Duties include densities and inspection of pipe installation. Reference: Jim Owens 904-733-1478 (10/2020 to 06/2022)

JAXPORT, Blount Island Marine Terminal, Berths 32-35 Reconstruction Phases 1 & 2, Jacksonville, FL
Phase 1: Inspector. Improvements behind the wharf include a new fence, asphalt paving, pavement markings. ***Phase 2:*** Warf improvements included Battered Pile driving for pier expansion. Project Manager Conner Tennant 904-718-5326 (01/2021 to 06/2022)

SR 21, Widening, FDOT District 2, Middleburg, FL
Inspector. Responsible for inspecting subgrade, base, concrete, asphalt, MOT, erosion control, and striping. Work includes widening, new turn lanes, extending holding capacity of existing turn lanes, directional bores, signals, and striping. Project Manager: Kellie Loper 813-871-5331 (04/2020 to 01/2021)

Ashley Lake Dr. Dirt to Pavement Project (Phase II), FDOT D2 Small County Outreach Program (SCOP), Melrose, FL
Senior Inspector: Work included converting a 5-mile residential subdivision dirt road to a two-lane paved road. Coordination with design team, county staff, inspectors, utilities, contractor, sub-contractors, homeowner's association staff and residents. Work also included tortoise relocation, clearing and grubbing, shoulder widening, utility relocation, drainage, soil testing, signs, and thermoplastic pavement markings. Project Manager: Felipe Rivera 386-329-0346 (10/2019 to 04/2020) $1,297,253.00

CR207A Bridge Over Dog Branch Creek, Putnam County, FL
Senior Inspector: Project consist of complete removal of the existing double box culvert and wingwalls, channel excavation, construction of new, pile supported, three span bridge No. 764062 and approach slabs, channel protection, reconstruction of approach roadway and milling and resurfacing to project tie-in to existing grade. Project Manager: Felipe Rivera 386-329-0346 (10/2019 to 04/2020) $1,207,000.00

FCF SE. Bus Rapid Transit - University Hub, JTA, Jacksonville, FL
Senior Inspector: Project consists of constructing a new Park-N-Ride facility and Access Road. Work includes site clearing including pre-existing building demolition,

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earthwork, drainage, concrete, asphalt paving, and vertical construction. Project Manager: Wilbur "Wil" Wright (904) 630-3181 (04/2019 to 12/2019)

Ashley Lake Dr. Dirt to Pavement Project (Phase I), FDOT D2 Small County Outreach Program (SCOP), Melrose, FL
Senior Inspector. Responsibilities include inspection of grading, paving, and drainage improvements. Work includes temporary erosion control measures, clearing/grubbing, reworking limerock base for subgrade, limerock base, asphalt paving, roadside drainage ditches, installation of RCP culverts/structures, sod, and striping. Project Manager: Felipe Rivera 386-329-0346 (05/2019 to 07/2019)

FCF E. Bus Rapid Transit, JTA, Jacksonville, FL
Inspector. Responsible for inspecting MOT, ITS equipment installation, utility relocation, and erosion control. Work includes directional bores, bridge mounted conduit, fiber optic cable, traffic controller units, cabinet connections, and signals. JTA Project Manager: Angie Williams 904-632-5230 (04/2018 to 05/2019)

SR 111 (Edgewood Ave), Mill & Resurface, FDOT District 2, Jacksonville, FL
Inspector. Responsible for inspecting milling and resurfacing, curb repairs, MOT, erosion control, and striping. Work includes bridge joint rehab, directional bores, and pedestrian signals. FDOT Project Manager: Bill Wortner 904-360-5538 (07/2017 to 10/2017)

FCF N. Bus Rapid Transit Fiber Optic, JTA, Jacksonville, FL
Inspector. Responsible for inspecting MOT, ITS equipment installation, utility relocation, and erosion control. Work includes directional bores, bridge mounted conduit, fiber optic cable, traffic controller units, cabinet connections, and signals. JTA Project Manager: Chris LeDew 904-598-8713 (05/2017 to 06/2017)

SR 126 (Emerson Street), Mill & Resurface, FDOT District 2, Jacksonville, FL
Inspector. Responsible for inspection of mill and resurface of parabolic crown roadway, curb and gutter, sidewalk, signal improvements. Project also includes a JPA with JEA to install a new 12-inch water main from Spring Park Road to Sharon Terrace. FDOT Project Manager: Guelmary Mendez 904-360-5552 (07/2016 to 05/2017)

SR 115 (Lem Turner) & SR 104 (Dunn Ave), Various Drainage Improvements, FDOT District 2, Jacksonville, FL
Inspector: The work includes desilting, pipe lining and replacement of existing drainage pipes, full depth reconstruction with and without flowable fill, subsurface pressure grout injection, milling and resurfacing, sidewalk replacement, and pavement markings, all in select locations on SR 115 (Lem Turner) and SR 104 (Dunn Ave). FDOT Project Manager: Guelmary Mendez 904-360-5552 (01/2016 to 09/2016)

FCF N. Bus Rapid Transit, JTA, Jacksonville, FL
Inspector. Work consists of constructing nine bus stop stations along Lem Turner from I-295 to downtown. Also included in the work is four-inch sidewalk, eight-inch reinforced sidewalk, curb, drainage improvements, milling and asphalt paving, conduit installation, electrical utility service, lighting, pedestrian signal upgrades, ADA ramps, striping, and landscaping. Responsible for providing construction inspection services for construction inspection and verification testing which included nuclear densities, concrete, and asphalt paving for eight bus stop stations. Work includes four-inch sidewalk, eight-inch reinforced sidewalk, curb, drainage improvements, milling and asphalt paving, conduit installation, electrical utility service, lighting, pedestrian signal upgrades, ADA ramps, striping, and landscaping. Responsibilities include coordination of inspection personnel, invoicing and contract management. JTA Project Manager: Richard Schwabe 904-630-3180 (07/2015 to 01/2016)

United States Army Corps of Engineers - Miami, FL **2008 to 2010**

- Tamiami Trail Project 12/2009 to 09/2010
- Parking Garage, MacDill AFB 06/2009 to 10/2009
- Levee Building 09/2008 to 05/2009

I-95 Widening, FDOT District 2, Jacksonville, FL
Inspector. Served as project inspector on 3.6 miles of widening, new concrete pavement, including all concrete testing (slump test, air content etc.), milling/resurfacing existing asphalt shoulders, constructing new asphalt shoulders, constructing 5 storm water treatment ponds (jack and bore), replacing concrete slabs on existing roadway, grinding all concrete roadway surfaces, providing new striping, signing, and protection of utilities on SR-9. (08/2006 to 12/2007)

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Jason Chisholm
Senior Inspector

EXPERIENCE
24 years total;
With RS&H since October 2014
Senior Inspector: 6 years
Inspector: 2 years
Quality Control: 16 years

AVAILABILITY
January 2024

FLORIDA CERTIFICATIONS
TIN: C24511071
Advanced WZTC/MOT
Asphalt Paving – Levels I & II
Concrete Field – Level I
Concrete Field Specification
Critical Structures
Drilled Shaft
Earthwork – Levels I & II
Final Estimates – Level II
Post-Tensioning Technician – Level I
QC Manager
Stormwater Management

NATIONAL CERTIFICATIONS
ACI Concrete Field – Level I
ACI Concrete Field – Level II (scheduled)
HAZMAT
IMSA Traffic Signal Inspector (pending)
NRC Nuclear Gauge Safety
OSHA Construction Safety & Health
NASSO/ ITCP – Cured in Place Pipe
Multi-Strand Grouting and Post Tensioning Specialist – Level I

FEMA CERTIFICATIONS
IS-100.b
IS-200.c
IS-700.b
IS-800.b

Jason has comprehensive experience in bridge and roadway construction. He has extensive experience in QC/VT inspections, including concrete and asphalt pavement, MSE walls, barrier walls, signalization, fiber optic, and drainage. Jason exercises independent judgment, makes technical decisions related to field inspection, and records pay quantity measurements while providing oversight of inspections and field tests for compliance with plans, specifications, and related contract documents. His quality control manager experience on multiple large award-winning projects has established him as an industry expert in construction. Jason's extensive work on the I-10 and I-95 Interchange and I-95 Concrete Rehabilitation projects allowed him to thoroughly understand all aspects of concrete pavement and complex MOT on interstate projects, including the challenges of interchange work. Additionally, he jointly taught a class with Brian Philips concerning earthwork and density logbook training for QC, VT, and FDOT technicians.

10/14 – Present: RS&H, Inc.

12/23 – Present: *Senior Inspector* on the Citation Boulevard Extension Project for Seminole Palms Community Development District in the City of Palm Coast, FL. This project consists of the construction of a new roadway through a residential area within the City of Palm Coast. Jason is working on the construction of subgrade construction, storm drain, sidewalk installation along with the final roadway asphalt. *Construction Cost: $4.5M; Contact: David McInnes, 321-263-0132*

06/22 – Present: *Senior Inspector* on the I-95 over the Nassau River Bridge Rehabilitation project. The structurally deficient bridge will receive 14 new straddle bent piers with 28 individual 48-inch diameter drilled shafts installed on each bent. Each cap will be post tensioned with the ducts ultimately sealed with flexible filler. This work will replace the existing substructure and foundation of the existing bridge. *CAF48/439201-1-62-01; Construction Cost: $20M; Contact: Daniel Lahey, 904-360-5553*

- **09/22 – 09/22: *Senior Inspector*** on the Emergency Contract Repair I-95 SB over 5th Street Bridge No. 720173. This work involved the removal and replacement of the existing bridge deck in a two-phase process under tight time restrictions. Bridge deck concrete was removed, SIP decking installed, and concrete was placed all within a 30-day timeframe. The project required heavy coordination with all stakeholders consistently keeping all parties up to date on the status of the project. CAF48/*442778-3-62-01; Construction Cost: $112K; Contact: Daniel Lahey, 904-360-5553*

12/20 – 09/23: *Lead Roadway Inspector* on the I-10 Widening project from I-295 to I-95 for FDOT District Two. The work includes widening the existing 6-lane interstate to add two additional lanes in each direction. The project includes 12 bridge widenings and 2 bridge culvert replacements, concrete pavement, ITS, and signalization enhancements, MSE wall, noise walls, drainage, lighting, overhead signs, drilled shafts and pile foundations. This project calls for widening a high-volume corridor through Jacksonville with limited R/W that includes full replacement of a 4-barrel box culvert and pedestrian tunnel under the interstate and the use of modified beams for the bridge widenings to maintain overhead clearance requirements. As one of the two lead inspectors, Jason is involved with almost every aspect of field inspection. He mentors junior staff and fills in for any operation when needed. Jason leads QC/VT density logbook reviews weekly and has covered most of the drilled shafts and auger cast pile work on the project.*CA338/439100-1-62-01; Construction Cost: $176.4M; Contact: Thomas Butler, 904-360-5537*

06/19 – 12/21: *Lead Inspector* on the SR 13/San Jose Boulevard from Julington Creek Road to Mandarin Road Signals project for FDOT District Two as part of the District's efforts to transition from span wires to mast arm operated intersections. The project consisted of the complete conversion of seven separate intersections, one of which was in front of a fire

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department. Jason inspected and oversaw the completion of 23 drilled shafts, directional bores, wiring, loops, cabinet replacement, and ADA compliance upgrades for the completely reconstructed intersections. He completed traffic counts during the COVID-19 pandemic, which allowed the contractor to mitigate night work and advance their schedule through longer work windows not originally permitted by the contract documents. Almost every intersection required field adjustments to move the project forward. *432396-1-62-01; Construction Cost: $2.7M; Contact: Brian Benton, 904-360-5544*

10/18 – 09/19: ***Lead Inspector*** on the SR 109 (University Boulevard) Drainage Improvement project for FDOT District Two. Jason oversaw drainage improvements, curb and gutter, sidewalks/bicycle path, fencing, permanent erosion control, sheet pile installation by non-vibratory methods, and other incidental construction for approximately 1,800 LF of outfall ditch. His attention to detail and relationship with the superintendent was critical in reporting fabri-form liner inconsistencies that allowed the Department to recoup costs related to minor quality issues tied to some grade elevation differences. *C9X81; Construction Cost: $4.4M; Contact: Daniel Lahey, 904-360-5553*

01/19 – 05/19: ***Senior Roadway Inspector*** on the Joeandy Road Turn Lane at Atlantic Boulevard project assigned as part of the CEI Continuing Services contract for the City of Jacksonville. Jason oversaw testing, daily reporting, and verification inspections for the addition of two turn lanes, a concrete traffic separator, signalization, and a new sidewalk supported by a gravity wall. The intent of the project was to widen Joeandy road to allow for better ingress/egress traffic patterns safety. *9894-138; Construction Cost: $403K; Contact: Tyler Gent, EI (VIA Project Administrator), 904-783-9842*

06/18 – 10/18: ***Senior Roadway Inspector*** on the SR A1A Drainage Improvements from Seagate Avenue to Beach Boulevard for FDOT District Two. Jason assisted as needed to cover ongoing operations and assisted the project administrator with project tracking setup and density for water and sewer work. *C9X81; Construction Cost: $25.8M; Contact: Daniel Lahey, 904-360-5553*

11/17 – 05/18: ***Senior Roadway Inspector*** on the SR 126 (Emerson Street) Milling and Resurfacing project from SR 13 to SR 5 (US 1) for FDOT District Two. Work included asphalt milling and resurfacing, sidewalk reconstruction, curb, and gutter, traffic signal maintenance, utility adjustments, signage, and striping. Coordination with adjacent projects was required to avoid conflicting work sites and overlapping signage. *436171-1-52-01; Construction Cost: $1.33M; Contact: Jessica Tippett, 904-360-5504*

07/15 – 08/16 and 03/17 – 11/17: ***Senior Roadway Inspector*** on the SR 15 (US 17) Reconstruction from Horse Landing Road to North Boundary Road for FDOT District Two. Work included widening the road from 2 to 4 lanes with a median, turn lanes, a retaining wall, four retention ponds, and a 12-foot shared-use path. The project comprised 28,000 tons of asphalt, 162,000 CY embankment, 12,000 LF drainage, and signalization. *C9K23; Construction Cost: $13.9M; Contact: Donald Devenny, 386-312-4833*

08/16 – 03/17: ***Senior Roadway Inspector*** on the SR 8 (I-10) Drainage Improvements from SR 111 (Cassat Avenue) to east of I-295 for FDOT District Two. The work site spanned over 1 mile and included the installation of 6,300 LF of 60-inch deep drainage pipe, 22 structures, jack and bore drainage, utility relocation, removal of contaminated material, subsoil excavation, and pond construction. The 36-inch to 60-inch drainage varies in depth from 8 feet to 25 feet and was installed along the shoulder of I-10 with substantial shoring protection. *C9K14; Construction Cost: $6.3M; Contact: Brian Benton, 904-360-5544*

04/15 – 07/15: ***Roadway Inspector*** on the SR 243 New Construction project between Airport Road and Pecan Park Road for FDOT District Two. Jason verified final portions of roadway work from completion of stabilized subgrades to final grassing after asphalt paving. C9G41; *Construction Cost: $14.8M; Contact: Robert Gurganious, 904-360-5542*

10/14 – 07/15: ***Roadway Inspector*** on the I-95 Concrete Pavement Rehabilitation project from J.T. Butler Boulevard to Old St. Augustine Road for FDOT District Two. RS&H assisted the contractor with developing an alternate traffic control plan to eliminate the need for middle lane closures, significantly improving project safety and reducing construction time. The project involved complex MOT through the Philips Highway and I-295 interchange involving multiple lane and ramp closures. Close coordination was also maintained with the three adjacent projects tied at the north and south project limits and on I-295 to the west. The 8-mile-long project featured a 6-lane typical section in which RS&H oversaw over 25,000 CY of partial, half, and full slab replacement, over 750,000 LF of concrete joint sealing, 94,000 SY of concrete pavement removal, asphalt milling, and resurfacing of interchange ramps, cantilever, half and full span-sign structure installation, 58 drilled shafts, signalization improvements, guardrail improvements, shoulder concrete barrier wall construction, and bridge joint rehabilitation. *C9117; Construction Cost: $20.1M; Contact: Ken Hill*

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RS&H

Ryan DeFazio
Senior Inspector

EXPERIENCE
9 years total;
With RS&H since January 2016
Senior Inspector: 4 years
Inspector: 4 years
Bridges: 2 years
Foundations: 2 years
Resurfacing: 7 years
Utilities: 2.5 years

AVAILABILITY
January 2024

EDUCATION
Bachelor of Science, Civil Engineering, University of North Carolina Charlotte

FLORIDA CERTIFICATIONS
TIN: D12073792
Advanced WZTC/MOT
Asphalt Paving – Levels I & II
Concrete Field – Level I
Concrete Field Specification
Critical Structures
Drilled Shaft
Earthwork – Levels I & II
Final Estimates – Level I
MSE Wall
Stormwater Management

NATIONAL CERTIFICATIONS
AASHTO PCC Paving Inspection
ACI Concrete Field – Level I
ACI CTCI – Level II
IMSA Fiber Optic Technician
IMSA Traffic Signal Inspector
HAZMAT
NRC Nuclear Gauge Safety
OSHA Construction Safety & Health

FEMA CERTIFICATIONS
IS-00100.c
IS-0200.c
IS-00700.b
IS-0800.d

Ryan's duties include inspection of construction activities, including monitoring and documenting the daily activities of the contractor, reviewing quantities, and analyzing/verifying tests performed by quality control personnel. He also assists senior inspectors, ensures compliance with plans and related contract documents, checks engineering computations, conducts field tests, and quantifies estimates. Ryan facilitates the identification and resolution of project issues and keeps the project manager informed at the same time.

01/16 – Present: RS&H, Inc.

07/23 – Present: *Senior Inspector* on the CEI for Moderate to Large City Projects for the City of Jacksonville; Independent Drive Realignment Improvements. *P-12-21*; *71564-22; Construction Cost: $139K; Contact: Pete Sheridan (VIA Consulting Services), 904-783-9842*

06/22 – 08/23: *Senior Inspector* on the SR 100 Resurfacing (SJRWMD to US 17) and SR 15/US 17 Resurfacing (West River Road to Clay County Line) for FDOT District Two. Ryan is responsible for concrete testing, density testing, quantity reviews while assisting the project administrator with various duties. *443274-1-62-01/443272-1-62-01; Construction Cost: $4.9M; Contact: Keith Livingston, 904-759-1575*

02/23 – 07/23: *Senior Inspector* on the 2019 Lake City Hybrid Contract for FDOT District Two. The contract included multiple tasks which varied in size and scope. *CA442; Construction Cost: Varies; Contact: Tom Crossman, 386-961-7037*

- **02/23 – 07/23:** Milling and resurfacing, signage, MOT, erosion control and other misc. construction of I-10 (SR 8) from W of CR 250 to Baker County line. *443423-1-62-01; 443422-1-62-01*

06/21 – 11/22: *Senior Inspector* on the SR 313 at Cordova Palms New Road Construction project for Dream Finders Homes in St. Augustine. The project involves the construction of the new SR 313, connecting SR 5 (US 1) to the new Cordova Palms development. The project includes construction of embankment, drainage, water main, sanitary sewer, retention ponds, stabilization, base, asphalt paving, and an at-grade railroad crossing. *445799-1-54-01; Construction Cost: $2.5M; Contact: Chad Sigmon (Land Development Manager of Dream Finders Homes), 757-256-3717*

01/20 – 03/22: *Senior Inspector* on the SR 5 Resurfacing (Ponce DeLeon Boulevard to Cross Ridge Drive) and SR 5 sidewalk (North of Fairbanks Street to Big Oak Road) in St. Johns County for FDOT District Two. The work included milling and resurfacing, base work, drainage improvement, utilities, curb and gutter, driveway and sidewalk, multi-phased MOT, signalization, and incidental construction. 69,903 tons of asphalt were laid, 7,450 LF of curb, and 1,964 CY of sidewalk and driveway were poured. *CA758/436023-1-62-01; Construction Cost: $19.2M; Contact: Vineesh Crawford, 386-312-4836*

11/19 – 02/20: *Inspector* on the SR 207 Milling and Resurfacing project which included milling and resurfacing approximately 7.3 miles as well as cross slope correction of SR 207, from SR 206 to the beginning of curb and gutter. Additional work included signing and pavement marking as well and lighting. *439348-1-62-01; Construction Cost: $9.1M; Contact: Len Pappalardo (Keville Enterprises), 904-493-6109*

01/19 – 03/20: *Inspector* on the Resurfacing of SR 15 (US 1) from SR 104 to the Nassau County Line in Duval County for FDOT District Two. The work included milling and resurfacing approximately 4.7 miles, widening, guardrail, signing and pavement marking, lighting, and turn lane construction. *CA016/437616-1-62-01/437321-1-62-01; Construction Cost: $5.3M; Contact: Scott Lent, 904-360-5675*

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09/18 – 11/19: ***Inspector*** on the SR 20 Drainage Improvements from Osceola Street to SR 100/US 17 for FDOT District Two. The work included milling and resurfacing, base work, drainage improvements, curb and gutter, traffic signals, highway signing, sidewalk, utility adjustments, and other incidental construction. The project duration was 200 days. *428797-1-52-01; Construction Cost: $2.18M; Contact: Stephen Spittle, 386-832-7143*

07/18 – 02/19: ***Senior Inspector*** on the SR 115 Signal Improvements from Southside Boulevard at Cargal Street for FDOT District Two. The work included traffic signals, lighting, highway signing, and other incidental construction on SR 115 (Southside Boulevard) at Cargal Street and SR 115 (Southside Boulevard) at SR 10 (Atlantic Boulevard). The project duration was 160 days. *434338-1-52-01; Construction Cost: $595K; Contact: Scott Lent, 904-360-5675*

03/18 – 09/18: ***Inspector*** on the SR A1A Drainage Improvements from Seagate Avenue to Beach Boulevard for FDOT District Two. The work included milling and resurfacing, base work, drainage improvements, curb and gutter, highway signing, guardrail, box culvert bridges, sidewalks, steel sheet pile installation by non-vibratory and vibratory means, sanitary sewer and water, rigid inclusion, riprap rubble, and other incidental construction for the outfall channel. This project consisted of the complete reconstruction of five bridges using driven pile and end bent foundations, Florida Slab Beams, stainless steel reinforcement, pre-stressed soil anchors, and column supported embankment. *C9X81/436077-1-62-01; Construction Cost: $25.8M; Contact: Daniel Lahey, 904-360-5553*

11/17 – 03/18: ***Inspector*** on the SR 126 (Emerson Street) Mill and Resurfacing project from SR 13 to SR 5 (US 1) as part of the Districtwide Continuing Hybrid CEI contract for FDOT District Two. Work on the 1.04-mile project included asphalt milling and resurfacing, reconstruction of sidewalk, curb, and gutter, traffic signal maintenanence, utility adjustments, signage, and striping. Coordination with adjacent projects was required to avoid conflicting work sites and overlapping signage. *436171-1-52-01; Construction Cost: $1.33M; Contact: Jessica Tippett, 904-360-5504*

06/16 – 11/17: ***Inspector*** on the SR 15 (US 17) Reconstruction from Horse Landing Road to North Boundary Road for FDOT District Two. Work included widening the road from 2 lanes to 4 lanes with a median, turn lanes, retaining wall, four retention ponds, and a 12-foot shared-use path. The project consisted of 28,000 tons of asphalt, 162,000 CY embankment, 12,000 LF drainage, and signalization. *C9K23/210028-4-62-01; Construction Cost: $13.9M; Contact: Donald Devenny, 386-312-4833*

04/12 – 06/16: ***Inspector*** on the SR 10 (US 90) Reconstruction and US 90 Milling and Resurfacing projects in Columbia County for FDOT District Two. The projects consisted of the complete widening and reconstruction of the existing 2-lane, rural roadway section into a 4-lane, divided urban section. The 1.5-mile project included drainage, utility, signalization, and landscape improvements between Brown Road and Lake City Avenue. The resurfacing project consisted of resurfacing 4.5 miles of a 2-lane, rural road, addition of guardrail, and multiple right turn lanes. A significant accomplishment was the continuous enhancements the team deployed to address complacent and distracted drivers. *C9644/208373-2-62-01/424493-1-62-01; Construction Cost: $10.1M; Contact: Tom Crossman, 386-961-7037*

03/16 – 04/16: ***Inspector*** on US 90/SR 10 Flexible Pavement Reconstruction from west of McDuff Avenue to east of Stockton Street. RS&H assisted the Contractor with developing an alternate traffic control plan to eliminate 23 drainage crossings through the newly constructed roadway, address detour routes that could not accommodate the heavy semi-truck traffic, and resolve drainage and water main conflicts. The work included 7,500 tons of asphalt, the installation of 6,500 LF of drainage pipe, 108 structures, 1,900 LF of underdrain, utility construction and relocation (new 16-inch water main and sanitary upgrades), removal of contaminated material, full-depth roadway reconstruction, subsoil excavation, and signalization. *C9K14/428701-1-62-01; Construction Cost: $9.9M; Contact: Michael Shaw, 904-360-5508*

02/16 – 04/16: ***Roadway Inspector*** on the SR 243 project between Airport Road and Pecan Park Road for FDOT District Two. The 2.6-mile new construction project included a low level, 3-span AASHTO beam bridge, 105,000 CY of excavation, 65,000 CY of subsoil excavation, 475,000 CY of embankment, 93,000 CY of surcharge embankment, 70,000 SY optional base, 13,000 tons of asphalt, traffic signals, ITS cable, highway signing, sidewalks/bicycle paths, and JEA utility work. *C9G41/209399-6-62-01; Construction Cost: $14.9M; Contact: Robert Gurganious, 904-360-5542*

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THE GIBBS GROUP, INC.
ENGINEERING & CONSTRUCTION SERVICES

Juan Carlos Sanchez

CEI Senior Inspector

EXPERIENCE
Total: 24 years

Inspector: 2 years

Gibbs Group: 2 years

EDUCATION
Mira Loma Christian School, 2008

TIN NUMBER
S52242381

CTQP CERTIFICATIONS
- Asphalt Paving Technician Level I
- Earthwork Construction Inspection Level I

OTHER CERTIFICATIONS
- FDOT Advanced Temporary Traffic Control
- HAZMAT Training
- Florida Stormwater Erosion and Sediment Control Inspector
- Nuclear Safety Training
- OSHA 10 Hour Construction Safety & Health Training

Mr. Sanchez is a professional with over 24 years of construction experience and an extensive background in ITS/Fiber Optics, electrical, lighting, and signalization. Mr. Sanchez has worked as an ITS/Tolls contractor in various capacities throughout his career from installing equipment in the field to project management and oversight. He has provided services directly for FDOT and other agencies for numerous years on ITS/Tolls systems and is extremely familiar with FDOT Standards and Specifications for ITS, All-Electronic Tolling (AET) systems, lighting, and signalization components and installation. Mr. Sanchez has strong field documentation skills and due to his experience as a contractor, understands the details of proper implementation, phasing and scheduling of construction activities related to ITS and electrical systems. He will work with the project team overseeing the contractor to produce successful electrical component installations on time and within budget.

Project Experience

Alta Drive Improvements (South of Faye Road North to Burkit Lane), 445040-1-62-01, Jacksonville Transportation Authority, Jacksonville, FL
CEI Inspector responsible for monitoring and documenting all contractor activities ensuring the project is constructed in compliance with plans and specifications. The project consists of widening the existing roadway to a six-lane, divided roadway from the I-295 exit to Faye Road, a four-lane divided roadway to Ashgrove Road and a five-lane roadway to Burkit Lane. The project will also feature bike lanes, sidewalks and a closed drainage system. The bridge over Dunn Creek will be restriped to accommodate the four (4) lanes of traffic that will be accommodated by the existing bridge. There will be a new or upgraded signal installed at Faye Road and Port Jacksonville Parkway. ***Dates:*** 05/2021 to present; ***Construction Amount:*** $38,400,000.00; ***Reference****:* Jonathan Page, JTA Program Manager, (904) 630-3135, jppage@jtafla.com

FIN 209301-3-52-01, Design Build of Express Lanes on I-295 (SR 9A) from SR 202 (J.T. Butler Blvd.) to SR 9B, FDOT District Two, Duval County, Florida
The scope of work of this Design Build contract included all investigation, design, permitting, coordination, final approved construction documents, and construction activities necessary for the construction of Express Lanes on I-295. The project included the construction of two additional 12-foot travel lanes (tolled express lanes) in each direction, improving interchanges at J. Turner Butler Boulevard, Gate Parkway, Baymeadows Road, and State Road 9B, constructing noise walls along I- 295 in various locations, building drainage ponds and installing electronic tolling systems at various locations for toll collection. Mr. Sanchez was directly responsible for the installation of fiber optic network, CCTV poles and devices, vehicle detection systems by microwave devices, walk-in Dynamic Message Signs with cantilever truss structures, ITS cabinets, new electrical service, signalization, highway lighting, and other incidental items. ***Construction Amount:*** $139,000,000.00; ***Reference:*** Taylor Byrd, P.E., FDOT Project Manager (386) 312-4826

FIN 213272-7-52-01, I-10 (SR 8) to E of I-295 and US 90 E in Leon County, FDOT District Two & District Three, Duval and Leon Counties, Florida
This contract consisted of Intelligent Transportation System and other incidental construction on SR 8 (I-10) from East of I-295 in Duval County to US 90 East in Leon County. The improvements on this project included the installation of fiber optic network, CCTV devices and poles with lowering devices, vehicle detection systems by microwave and AVI Bluetooth devices, walk-in Dynamic Message Signs with cantilever truss structures, managed ethernet switches, ITS cabinets, new electrical service, and other incidental items. Mr. Sanchez was directly responsible for the installation and integration of ITS infrastructure including the scheduling of various prime and subcontractor operations. ***Construction Amount:*** $16,000,000.00; ***Reference:*** Sidney “Sid” Whichard, FDOT Project Manager (904) 360-5576

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SR 417 Widening Econlockhatchee to Seminole County, Contract 417-134, Central Florida Expressway Authority, Florida
This project consisted of limited access highway widening on SR 417 from Econlockhatchee Trail to Aloma Ave. rom four (4) general use lanes to six (6) general use lanes and includes shoulder widening, median widening, widening of the SR 417 (steel girder) bridge over University Blvd. and adding a third lane in each direction to the open road tolling at the University Mainline toll plaza. Additional improvements on this project include drainage features with several ponds, cast-in-place cantilever wall, MSE wall, cast-in-place sound walls, auger cast pile (post/panel) sound walls, ITS, highway lighting, overhead truss guide sign structures including full span, mid span and cantilever. Mr. Sanchez provided support for local staff responsible for the installation of fiber optic network, CCTV poles and devices, vehicle detection systems by microwave devices, walk-in Dynamic Message Signs with cantilever truss structures, ITS cabinets, new electrical service, highway lighting, and otherincidental items. ***Construction Amount:*** $44,800,000.00; ***Reference:*** Ben Dreiling, PE; CFX Director of Construction; (407) 690-5000

FIN 427475-1-52-01, I-95 from Duval County Line to SR 15 (US 17), FDOT District Two, Nassau County, Florida Cost $4M
This contract consisted of extending the FDOT ITS Freeway Management System and other incidental construction on SR 9 (I-95) from SR 102 (Airport Rd.) interchange from Duval County to the Georgia State Line in Nassau County, approximately 17.9 miles in length. The improvements included the installation of fiber optic network, CCTV poles and devices, vehicle detection systems by microwave devices, walk-in Dynamic Message Signs with cantilever truss structures, ITS cabinets, new electrical service, and other incidental items. Mr. Sanchez was directly responsible for the installation and configuration of the CCTV devices including the concrete pre-stressed poles with lowering devices. ***Construction Amount:*** $4,000,000.00; ***Reference:*** John Patterson, P.E., FDOT Project Manager (904)360-5576

FIN(s) 213345-7-52-01 & 213345-7-56-01, Design Build of Express Lanes on I-295 (SR 9A) from Buckman Bridge to the I-95 South Interchange, FDOT District Two, Duval County, Florida Cost $88M
The scope of work of this Design Build contract included all investigation, design, permitting, coordination, final approved construction documents, and construction activities necessary for the construction of Express Lanes on I-295 from the Buckman Bridge to the I-95 South Interchange. The anticipated project limits extend from approximately 2,200' west of Scott Mill Road (Section 72001; milepost 5.684) to approximately 2,500' west of I-95 (Section 72001; milepost 0.515). Mr. Sanchez was directly responsible for the installation of fiber optic network, CCTV poles and devices, vehicle detection systems by microwave devices, walk-in Dynamic Message Signs with cantilever truss structures, ITS cabinets, new electrical service, signalization, highway lighting, and other incidental items. ***Construction Amount:*** $88,000,000.00; ***Reference:*** Daniel Lahey, P.E., FDOT Project Manager (904)360-5553

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Kaleb Brinkley

CEI Senior Inspector

OVERALL EXPERIENCE
Total: 3 years

Inspector: 3 years

Gibbs Group: 4 mo.

TIN NUMBER
B65251091

CTQP CERTIFICATIONS
- Asphalt Paving Technician Level I
- Asphalt Paving Technician II
- Concrete Field Inspector Level I
- Earthwork Construction Inspection Level I
- Earthwork Construction Inspection Level II
- Final Estimates Level I
-Pile Driving Inspector

OTHER CERTIFICATIONS
- ACI Concrete Field-Testing Technician Grade I
- FDOT Advanced Temporary Traffic Control
- HAZMAT & Nuclear Radiation Safety Training
- Florida Stormwater Erosion & Sedimentation Control Inspector
- OSHA 10
-FDOT Critical Structures (Self-Study)
-FDOT MSE Wall (Self Study)
- Auger Cast Pile
- Post Tensioning Level I
- Grout PT Specialist

Mr. Brinkley is a CEI roadway inspector who has over 3 years of experience with a demonstrated history of working in construction and inspection environments. He will use his knowledge and experience to provide quality inspections and testing to ensure plans and specifications are complied with. His experience includes operation of construction equipment and construction inspection. Mr. Brinkley has a working knowledge of FDOT and City of Jacksonville Standards and Specifications and is familiar with AASHTO guidelines for use on heavy civil construction projects.

Professional Experience:

447033-1 SR 25/US 441 Resurfacing, FDOT District Two, Alachua County, Florida
CEI Inspector responsible for monitoring and documenting all contractor activities ensuring the project is constructed in compliance with plans and specifications. This project consists of resurfacing nearly 2 miles of SW 13th Street from Williston Road to Archer Road. The resurfacing project includes the removal and replacement of the upper layers of asphalt; upgrading traffic signal; upgrading pedestrian signals; new roadway signage; new pavement markings; and sidewalk, curb and driveway improvements at various locations. Additionally, the northbound and southbound left-turn lanes at SW 21st Avenue will be lengthened as part of the project. ***Dates:*** 09/2023 to current; ***Construction Amount:*** $5,900,000.00; ***Reference:*** Jeff Sullivan, P.E., RS&H Project Engineer (301) 740-4483 Jeff.Sullivan@rsandh.com

San Pablo Road Improvements (Beach Blvd. to Atlantic Blvd.), Jacksonville Transportation Authority, Duval County, Florida
CEI Inspector responsible for monitoring and documenting the contractor's on-site construction activities and inspect materials to ensure compliance with plans, specifications, and other contract documents. Improvements under this contract consist of widening of the northern end of San Pablo Road from two to three lanes from Beach Boulevard to Crystal Cove Drive and from Osprey Point Drive to Atlantic Boulevard. These sections will include raised medians, utility improvements, a closed drainage system, bike lanes, sidewalks, and stormwater ponds. ***Dates:*** 08/2023 to 09/2023; ***Construction Amount:*** $26,000,000.00; ***Reference:*** JTA PM Julian McKinley, P.E. (904) 598-8711, jmckinley@jtafla.com

439201-1 I-95 Bridge Repair/Rehabilitation over Nassau River, FDOT District Two, Duval & Nassau County, Florida
CEI Inspector responsible for monitoring and documenting all contractor activities ensuring the project is constructed in compliance with plans and specifications. This project included repair and rehabilitation on Bridge. No. 720218 and Bridge No. 720336 over the Nassau River. ***Dates:*** 05/2022 to 08/2023; ***Construction Amount:*** $11,790,000.00; ***Reference:*** Jeff Sullivan, P.E., RS&H Project Engineer (301) 740-4483 Jeff.Sullivan@rsandh.com

443261-1 SR 134 (Timuquana Road) from Wesconnett Blvd. to US 17 Resurfacing, FDOT District Two, Duval County, Florida
CEI Inspector responsible for monitoring and documenting all contractor activities ensuring the project is constructed in compliance with plans and specifications. This FDOT resurfacing project improved safety, increased mobility and rehabilitated 2.6 miles of Timuquana Road (SR 134) from Wesconnett Blvd. to US 17 (Roosevelt Blvd.) by removing and replacing the top layers of asphalt, adding 7' buffered bicycle lanes throughout the length of the project and improved safety by closing the median opening at Water Oak Lane. Resurfacing involved removing and replacing the top layers of asphalt and was expected to extend the life of the roadway up to 20 years. Other items of construction included: drainage improvements, sidewalk and curb improvements, new highway signage, and signal upgrades throughout the project limits. ***Dates:*** 01/2022 to 02/2023; ***Construction Amount:*** $9,700,000.00; ***Reference:*** Jeff Sullivan, P.E., RS&H Project Engineer (301) 740-4483 Jeff.Sullivan@rsandh.com

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Collins Road Improvements, Jacksonville Transportation Authority, Duval County, Florida
CEI Inspector responsible for monitoring and documenting all contractor activities ensuring the project is constructed in compliance with plans and specifications. This project included widening the existing two-lane undivided to four lanes between Old Middleburg Road and Rampart Road. The project also featured curbed medians, bike lanes, a closed drainage system and sidewalks. ***Dates:*** 09/2020 to 01/2022; ***Construction Amount:*** $19,800,000.00; ***Reference:*** Jeff Sullivan, P.E., RS&H Project Engineer (301) 740-4483 Jeff.Sullivan@rsandh.com

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D. Location of Office(s)

CSI Geo's headquarters office is located at 2394 St. John Bluff Road, South, Suite 200, Jacksonville, FL.

E. Knowledge and Compliance with State and Locals Laws

CSI's Geo's team is knowledgeable and shall comply with all applicable federal, state, and local laws, statutes, codes, ordinances, rules and regulations, and the orders and decrees of any court, or administrative bodies or tribunals in any manner affecting the performance of this contract, including, without limitation, worker's compensation laws, minimum and maximum salary and wage statutes and regulations, nondiscrimination, and licensing laws and regulations. When required, we can furnish the State with satisfactory proof of our compliance therewith.

F. Unique Rewards and Accomplishments

Throughout the years, CSI Geo has built lasting relationships with agencies and their staff, public officials, board members, committees, and the general public. These relationships have been forged by our ability to consistently communicate and work effectively with individuals daily. As mentioned, most of our business comes from repeat clients who keep returning, not only for our ability to produce excellent work, but also for our capability to work productively with others.

- CSI Geo was awarded the Society of American Military Engineers "Small Business Firm of the Year".
- CSI Geo is ranked in the top "25 Engineering Firms" in Jacksonville and the surrounding area in 2020 by the Jacksonville Business Journal.
- For the Minority Enterprise Development Week, we were awarded "Minority Entrepreneur of the Year".
- We were named SFWMD's "Minority Business of the Year.
- Moreover, we were one of the Jacksonville Business Journal Winners for "Best Place to Work".

JTA SE Bus Rapid Transportation Corridor (BRT), CEI Services

"During the past several years I have had the pleasure of working with CSI Geo's professionals on numerous projects throughout the Jacksonville area. Their efforts have included Quality Control, Materials Testing, Construction Engineering Inspection, Geotechnical Investigations, and Consulting. These efforts have been performed and completed in a professional manner." - Richard Schwabe, Project Manager, Jacksonville Transportation Authority

SR 19 Left Turn Lane at Point of Woods

"It is my pleasure to offer this letter of recommendation for CSI Geo, Inc. The CSI Geo staff has provided quality services over the years to Putnam County Public Works Department that includes geotechnical engineering, construction material testing, and construction engineering and inspection." - Angelo A. Speno, PE, Assistant Public Works Director, Putnam County

"CSI Geo has consistently completed their assignments on time and within budget. Their service to the District has always been professional and courteous, and the quality of their work has been outstanding. CSI Geo has been very responsive in providing support to the diverse project needs of the district". - William R. Cote, PE, Supervising Professional Engineer, Dpt. Of Water Resources/Division of Engineering, SJRWMD

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4. Project Understanding, Approach, and Methodology

For over two decades, the staff at CSI Geo has consistently provided a full range of CEI services for a variety of local government agencies throughout Florida and Georgia, which has allowed our staff to gain valuable experience which is applied to every project undertaken. CSI Geo always keeps up with industry trends and makes certain all personnel are up to date with new software, as well as required certifications. As we provide CEI services for the COJ, JTA, FDOT, Putnam County, Flagler County, St. Johns County, and various other northeast Florida counties and agencies, we continue to be proactive to prevent claims and escalation issues. The CSI Geo Team can meet the specialized needs of all types and sizes of projects. Our team is well versed in all areas of CEI procedures and specifications for projects such as roadway, bridge, shared use/multi-use paths, trails, and vertical construction.

CSI Geo has a well-established CEI force that provides management for a wide spectrum of roadway, sidewalk, trail, drainage, and bridge projects. Our involvement ranges from complete CEI management to sub-consultant inspection and testing. Our construction managers, engineers, inspectors, and technicians provide observation and monitoring of construction projects for a wide variety of clients, both government and private. The CEI staff concentrates on ensuring the daily construction activities comply with the project specifications and permitting agency requirements. This approach minimizes oversight required by the County's Project Manager while offering flexibility to manage resources on an as-needed basis. We provide the following quality and cost effective CEI services:

- Effective communication between Nassau County Project Management, Project Management staff, and Inspection personnel
- Construction inspection by qualified personnel of contractor's operations and direct re-work, when required.
- Review constructability of project plans
- Schedule and conduct a pre-construction meeting and provide minutes to attendees.
- Review shop drawing submittals for contract specification compliance
- Review and answer Request-For-Information inquiries from contractors
- Review change order requests, negotiate, provide engineer's estimate, and make recommendations to the County.
- Review and resolve disputes and claims from contractors for additional compensation for additional work.
- Use tracking logs for Requests-for-Information, Change Orders, Required Submittals (Shop Drawings, Material Certifications, etc.), Monthly Project Schedules, etc.
- Arrange for verification testing of construction materials and review reports for accuracy and compliance with County specifications.
- Review contractor's monthly pay application for accuracy of work performed.
- Coordinate changes to project plans as needed with the County's Design Consultant; review changes and coordinate the issuance of the revised plans to all parties.
- Monitor As-Built Drawings during construction and collect all As-Built Drawings at the end of the project, review the drawings, and make recommendations for approval.
- Advise the County when the contractor has satisfactorily completed the obligation under the warranty period of the contract.
- Coordinate and oversee QA in-house laboratory/construction materials testing services and any of our subconsultant services.

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- Assemble documents necessary to close the project, prepare final project status report, prepare final estimate, and deliver package to the County.

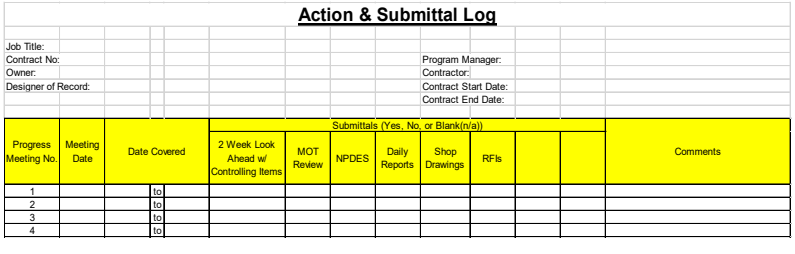
The CSI Geo Team is comprised of a talented and driven group of engineers, inspectors, and administrative staff with extensive experience in CEI, Construction Material Testing (CMT), and knowledge of the construction process from conception to completion. The team is staffed with a Senior Project Engineer (SPE) who can review the plans and shop drawings, review RFI's from the contractor, and suggest resolutions to the Engineer of Record. The Project Administrator works in the field daily with the Contractor to resolve issues as they arise with the goal of keeping the project on schedule and on budget. The inspection staff are on site to oversee the Contractor's operations, ensure that specifications are followed, and the specified materials are used, ensure construction is built within tolerances and to the intent of the plans, and to ensure creation of accurate "As-Built" plans.

Project Management Plan

CSI Geo's proposed project management plan acting as the County's agent has been designed to anticipate, identify, and prevent potential problems - or should issues arise, to respond to them rapidly and effectively. All contractor submittals are reviewed by our Project Administrator for contract compliance and completeness. Our reviews include adherence to specifications, means, methods, techniques, sequences, and construction procedures. Shop drawings are submitted to Engineer of Record (EOR) after our review for final approval for incorporation into the project.

We use tracking logs for all project data. The logs include contract time, change orders, Critical Path Method (CPM) schedule submittals, Requests-for-Information (RFI), plan revisions, and contractor submittals. Also tracked are the dates of contractor submittal, disposition, returned, and comments. The Senior Project Engineer and Project Administrator are familiar with Primavera, Microsoft Project, and ClaimDigger software for scheduling and project management, and are adept at using and interpreting bar chart schedules. We confirm the Contractor has submitted an appropriate and workable schedule to be presented to the County with our comments for final approval prior to beginning construction. We review asphalt and concrete mix design submittals to confirm they are acceptable and as specified for the project. Our inspection staff is supplied with a copy of the mix design to verify the material being incorporated is correct.

We use the two-week look-ahead schedule submitted at progress meetings, the approved baseline CPM schedule, the monthly updated CPM schedule, and the monthly narrative to verify the contractor will complete the project within the allotted contract time. Discrepancies are discussed with the contractor to decide if additional action is required, or if the contractor will "catch up" the time by adding additional workforce.



Action & Submittal Log

Job Title:
Contract No:
Owner:
Designer of Record:
Program Manager:
Contractor:
Contract Start Date:
Contract End Date:

Progress Meeting No.	Meeting Date	Date Covered			Submittals (Yes, No, or Blank(n/a))								Comments
					2 Week Look Ahead w/ Controlling Items	MOT Review	NPDES	Daily Reports	Shop Drawings	RFIs			
1			to										
2			to										
3			to										
4			to										

Active management is critical to project success. Our Project Administrator will hold regular progress meetings with the Contractor, the Department, utility owners, and other interested parties to review project progress and to address and resolve any pending issues. Emphasis will be placed on the prompt resolution of issues, as well as providing short-range work schedules (two-week look ahead) to keep all parties informed of upcoming activities. An Action Item Log will be maintained detailing all pending issues, submittals, work proposals, actions pending, etc. The Log will be a part of each meeting agenda and will be reviewed and updated.

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Monitor and Document Construction Progress

Monitoring and documentation of how taxpayer dollars are spent is essential to make accurate interim and final payments to contractors. Our CEI Senior Project Engineer, Project Administrator, and CMT Manager have over ninety years of combined experience in project administration, documentation, preparation of final estimates, and material acceptance. This experience includes multiple Local Agency Projects (LAP), Small County Road Assistance Program (SCRAP), County Incentive Grant Program (CIGP), Transportation Regional Incentive Program (TRIP), Small County Outreach Program (SCOP), and Joint Project Agreements (JPA). All project personnel have a clear understanding of the final closeout process and how quantities are tracked to ensure a smooth project close-out. Work on the final estimate begins the first day of construction and proceeds until all work items (scheduled and added) are completed. All team members have worked on numerous projects with multiple agencies and understand the procedures used to pay contractors. The CEI staff reviews all requests for payment from the contractor and makes necessary revisions and corrections prior to submittal to the County.

Our on-site inspection team monitors construction activities and inspects incorporated materials for compliance with the plans, specifications, and special provisions of the construction contract to ensure projects are constructed in conformity with contract documents. We maintain detailed accurate records of the Contractor's daily operations and of significant events affecting the work progress. Our CEI staff monitors and inspects the Contractor's Work Zone Traffic Control Plan and reviews modifications to it, including Alternate Work Zone Traffic Control Plans to verify they are in compliance with the contract documents.

Coordinating Verification Testing

CSI Geo coordinates the in-house verification testing with the contractor in accordance with the project specifications. The contractor submits a schedule of values and their quality control plan for approval. We use those and the FDOT's Sampling, Testing, and Reporting Guide (STRG) to determine the frequency verification testing should occur.

Review of Construction Test Results

Liam Capstick, PE, will lead our in-house Construction Materials Testing (CMT) department and provide reviews of soil, concrete, and asphalt testing results to determine compliance in accordance with the construction contract documents. CSI Geo maintains a full-service in-house accredited laboratory, thus minimizing issues with chain of custody. The minimum sampling frequencies set out in the FDOT Materials Sampling, Testing and Reporting Guide will be met. We provide daily observation of the Contractor's Quality Control activities and perform sampling/testing of materials incorporated into projects confirming that the contract specifications are satisfied.

Our lab is accredited by FDOT, AASHTO/CCRL, and USACE, and has maintained accreditation for over 25 years. Our lab participates in the FDOT, AASHTO, and CCRL proficiency sample programs. CSI Geo has an in-house electronic sample tracking system, ElmTree, with a traditional paper backup system. All samples are tagged and recorded upon delivery. Once in CSI Geo custody, all samples are tracked and maintained throughout the testing process.

CSI Geo has two contracts for verification testing (VT) with FDOT and the City of Jacksonville: FDOT I-295 East Beltway/9B, I-95/I-295 North Interchange, and I-95/I-10 Interchange Operation Improvements (Fuller Warren Bridge). For these, CSI Geo has been retained by FDOT to conduct the VT testing for all soils and concrete laboratory testing and asphalt plant inspection.

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Interpretation of Scope

CSI Geo understands the primary role of the CEI staff is to manage the construction contract efficiently, observe and inspect the contractor's operations, test and document materials incorporated, document work activities, and ensure compliance with contract documents and specifications. Our team is very familiar with the area and understands the existing soil within the project corridor. Our Geotechnical Department performed the soil analysis for the new roadway and proposed pond areas for the EOR. We have immediate access to the Geotechnical Engineer to assist in any issues/disputes regarding the limits of subsoil excavation. This access reduces potential delay time and keeps the project on schedule.

We understand the requirement of this contract will be supplying CEI Administration, Oversight, and Inspection for Nassau County's **Chester Road And Pages Dairy Road Intersection Improvements Project**. The project includes new roadway construction, widening, milling/resurfacing, bike lanes/keyholes, striping, signalization, and signing. The project also has JEA Force Mains and Sanitary Mains which will require coordination with the JEA inspector. The project has multiple typical sections and a station equation which will require strict adherence to the stationing for quantity calculations. Our team is experienced in measuring and documenting quantities on construction projects and in maintaining density log books for backfill operations. We also have experience in utilizing flowable fill in areas that have time constraints regarding open trenches.

Multiple construction phases and detours as shown in the Temporary Traffic Control Plans could pose issues with motorists and pedestrians. Our team is pro-active working with the Nassau Co. Public Information Office (PIO) informing the residents of upcoming construction activities and what they can expect regarding the anticipated timelines for the detours.

Our staff is well versed in FDOT Specifications for all major construction disciplines. CSI Geo additionally maintains and operates a state-of-the-art laboratory for all construction materials testing needs. Our laboratory staff is CTQP certified in testing and follow all FDOT Specifications as required. Finally, our Quality Control Manager is well versed in completing quality control plans and overseeing support staff as needed to provided contractors with best management practices.

We are committed to providing Nassau County with the best quality project while staying within specified time and budgetary constraints. The CSI Geo Team, in conjunction with our sub-consultants Eisman & Russo, RS&H, and The Gibbs Group have the personnel to meet the project staffing requirements and is knowledgeable and experienced in all construction activities.

Method of Approach

Our CEI Department's proposed method of approach has a proven track record of success in project management and administration to achieve contract objectives. Our method of approach providing these services is outlined below:

- Upon notification that CSI Geo is chosen to represent Nassau County for CEI Services, we request a meeting with the County Project Manager and Staff to ensure County expectations are received and understood for smooth transition to construction.
- We schedule the Pre-Construction Conference, create and facilitate the Pre-Con agenda, and meet with the County, Contractor, Utilities, Quality Control, and Testing team. Additionally, the Project Administrator will coordinate meetings with the utilities or contractor for any conflicts, utility or otherwise, that may arise. Finally, CEI Staff will obtain all permit numbers to be provided at the pre-construction meeting or will facilitate ensuring the Contractor obtains any other required permits.

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- CSI Geo staff is well versed in roadway construction projects and maintains the required documentation to close out the project with no issues. Our Project Administrator will ensure all documentation, reporting, and invoicing are complete, correct, and properly submitted.
- Upon Notice-to-Proceed for the Contractor, CEI Staff will ensure Maintenance of Traffic (MOT) and all public safety concerns are met per the plans, design standards, and specifications. MOT will be reviewed daily to ensure compliance including nighttime working conditions. Our inspectors will ride through the detours to ensure they are per plan and actually make sense.
- Our staff ensures all Stormwater Pollution Prevention Plan (SWPPP) measures are implemented per plan. Our inspection staff monitors erosion control measures daily and ensures the Contractor is using Best Management Practices (BMPs). We notify the Contractor of issues found to be repaired promptly. Before anticipated weather events we ensure the Contractor prepares for the event and repairs damaged areas immediately afterwards.
- CEI inspection staff are on site when the Contractor or their sub-contractor is performing work. Our inspection staff complete Daily Work Reports (DWR) and include progress pictures to allow County staff to see progress even when they are not available to be in the field. DWR's are reviewed by the Project Administrator and the Senior Project Engineer for accuracy. Reports are sent to the County on a weekly basis or as requested by County personnel.
- Progress Meetings are held on a set schedule (weekly, bi-weekly, or monthly) to be determined at the pre-construction meeting. The Project Administrator schedules, prepares, and facilitates these meetings, then ensures recorded and written minutes are provided. These meetings allow CEI and Contractor staff to work out issues, discuss RFI's, report and update progress for a two or four-week look ahead interval.
- Our inspectors monitor and record all testing for LBR's and density to ensure proper compaction is met for sub-grade, base, and asphaltic materials while ensuring test results meet or exceed the required limits and percentages. During milling and paving operations, we monitor cross-slopes and rolling straightedge requirements to ensure proper drainage and a safe and smooth ride for motorists. Additional items to be cognizant of are asphalt truck and weather temperature measurements, random sampling and core layout, coring and core fill-in, tack coat and mix spread rates, compaction effort roller monitoring, overbuild and leveling measurements, and density testing compliance.
- We track dates and log all materials incorporated into the project for ease of reviewing for monthly progress payments and estimates. Pay item quantities are recorded on a field set of plans and entered in logbooks to ensure completion. The Project Administrator reviews the contractor's monthly progress payment application for accuracy and completeness before submitting to the County Project Manager for processing.
- Our asphalt inspectors check the cross-slope before and after the milling operation, check the asphalt mat depth, the temperatures, and is aware of end-of-load segregation issues. After asphalt is completed and ready for initial striping, the inspector monitors all aspects of the striping team to ensure neatness, proper placement, stripe width, thickness, and safety measures are met while in progress. Also, quantities are checked for proper progress payment tracking. Finally, when it is time to place thermoplastic and RPM's, our staff ensures the same process quality including retro reflectivity requirements.
- Upon substantial completion, the Project Administrator schedules a project walk-thru with County, Contractor, Engineer of Record, and any other needed staff to review the completed work and to establish a punch list for final completion. The CEI Staff ensures the As-Built Plans document any deviations or changes from the original plans made during construction before submission to County staff. Finally, we can provide a Contractor's Past Performance Rating Form to evaluate the contractor if required and provided by the County.

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Management and Staff Responsibilities

CSI Geo's CEI Manager/Senior Project Engineer, Karle Maye, PE, will closely monitor and manage CEI resources and funds with the goal to stay within Nassau County's budget by continually measuring our efficiency and making necessary adjustments to the staff on hand. Without compromising quality and whenever possible, we assign one inspector to several operations to improve efficiency. If the Contractor's schedule runs longer than projected, Mr. Maye will notify the County's Project Manager of any potential CEI contract schedule or budget adjustment requirements. Mr. Maye is also the liaison for CSI Geo and will be preparing the invoices to the County.

Mr. Maye provides operations oversight, ensures Nassau County procedures and specification are followed, negotiates any supplemental agreements or work orders with the contractor, reviews contractor schedule for completeness and functionality, and staffs the project appropriately. He reviews the final construction estimate package for completeness and accuracy before delivery to the County.

Our Project Administrator, James Cuneo, PWM, manages the day-to-day operations of the project. Upon NTP he schedules and conducts the pre-construction meeting. Before the contractor begins work, Mr. Cuneo reviews the Contractor Quality Control (CQC) Plan, material submittals, and compares bid item quantities with the Schedule of Values. During construction, he holds various project-level meetings (Progress, Utility, Conflict, etc.), assists in negotiating SAs and WOs, maintains all logs (RFI, SA, WO, Submittal, Time, etc.), coordinates and manages inspection personnel, reviews the monthly pay application, and reviews the construction schedule.

Upon completion of construction, Mr. Cuneo prepares and processes the final estimate package, reviews the field logs for completeness, performs the contractor rating, and reviews the As-Built plans with the Sr. Project Engineer for his approval and signature.

The Project Administrator and other members of our staff are familiar with the use and interpretation of Primavera, Microsoft Project, and ClaimDigger software for scheduling and project management, and are adept at using and interpreting bar chart schedules. We ensure the Contractor submits an appropriate and workable schedule with a narrative of completed and anticipated work. We run the scheduling calculation in Primavera to itemize critical path elements, check if critical path elements are calculated, and to ensure the values shown are accurate and not inflated. As the project progresses, our team will review the two-week "look-ahead" schedule updates to confirm they match the CPM schedule and to help ensure timely project completion. If discrepancies are found, we bring them to the Contractor's attention to either correct the error or amend the schedule to account for the discrepancy. All inspection staff are certified in CTQP Final Estimates Level I to ensure proper field documentation is kept and all quantities are tracked to facilitate progress payments to the Contractor.

Essential to the completion of any project, our CEI team has many years of experience in the field of project documentation and final estimates preparation. We have a clear understanding of the Final Estimate process and all the documentation needed for project closeout. Work on the Final Estimate begins the first day of construction and proceeds until all pay items are completed. We are cognizant of the possibility of unforeseen work, and will record time, materials, and personnel in such an event. CSI Geo is familiar with all types of contract modifications such as work/change orders, supplemental agreements, and unilateral supplemental agreements. An engineer's analysis is performed for all schedule/budget contract changes and included with recommendations to the County. All efforts are made to resolve any conflicts in the most expedient and fair manner at the lowest level.

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Our Senior Inspectors are responsible for observing construction activities, inspection of materials incorporated, and providing documentation of construction activities. Duties include ensuring OSHA and safety protocols are followed, setting field inspector schedules, coordinating field testing, QC Plan compliance, MOT compliance (lane closure times, length, clear zones, etc.), daily monitoring of SWPPP measures, coordinating with prime contractor's work schedule to assure inspection coverage, and inspection of new materials to be incorporated. They also submit daily field reports and coordinate with the Project Administrator regarding construction quantities and activities.

Methods Employed to Ensure Prompt Service, Customer Satisfaction, and Prompt Complaint Resolution

Our PA, James Cuneo, is well versed in dealing with the public and community organizations (Commissioners, HOA, Preservation Committees, etc.) to provide project progress informative briefings to assist with minimizing complaints. If a complaint is received by the County staff or our on-site staff:

- Our team will investigate the grievance the same day we receive it.
- We meet with the complainants to better understand their concerns, offer clarification of the work being performed, discuss timelines of scheduled work, and listen to any comment/suggestions they may offer.
- We review conditions, propose applicable resolutions (with an engineer's analysis if appropriate).
- Provide a report to the County Project Manager with our recommendation.

Our goal is to assist the County in providing excellent customer satisfaction and to handle issues at the lowest level. If required, and in conjunction with the Nassau County Public Works Staff, CSI Geo staff can assist in briefings requested by Commissioners to satisfy inquiries by the community. We take pride in our projects and look forward to providing exceptional services for our clients.

Upon Substantial Completion of the project, our Project Administrator will:

- Schedule and conduct a project walk-through meeting to identify punch list items - this will include the County, CEI, Contractor, Engineer of Record, and any other staff the County desires present.
- The Contractor will be furnished the list of items requiring correction.
- We request a schedule from the Contractor for completion and final clean up before CEI Staff signs off on the Final Payment to release the Project Retainage
- CEI Staff will ensure As-Built Drawings are obtained, reviewed, and turned over to the County prior to final payment being delivered.
- All areas of the project will be to the satisfaction of the County before full turnover.

Once the Contractor satisfies the conditions of the contract, we will present the County with a completion package so Final Completion can be issued by the County.

Effective Employee Performance and Training

We use the FDOT's Statewide Guidelines to QA our inspectors every six months and concentrate on the critical requirements. These are used as indicators of the overall quality of the CEI inspection staff and management effort. If the review of critical requirements indicate there are concerns with inspection duties, then additional instructional efforts and training are provided. Results of noncompliance items are kept in the inspector's file located within the CEI office until such time the inspector shows a firm understanding the issue in question.

CSI Geo's training program keeps our inspection staff current on certifications as well as industry standards. We have developed a spreadsheet to notify us before our personnel's certifications expire. In order to make

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use of the talents of our personnel efficiently, we cross-train them in multiple areas. This provides each inspector a better understanding of the sampling/testing requirements and allows us to make use of their skills in our Construction Materials Testing department if necessary.

Further, our plant inspectors are also approved to provide Verification Testing services for the FDOT's District 2 Materials Office, which demands highly experienced inspectors who can provide top level services with minimal room for error. We currently provide asphalt plant inspection for the District 2 Materials office, the City of Jacksonville, Jaxport, Federal Aviation Authority, Navy Facilities Engineering Command, and various other towns and counties. CSI Geo is one of the largest and most respected Asphalt Plant Inspection firms in northeast Florida. Hence, we can provide any required plant inspection services with experienced in-house personnel, optimizing communication and coordination between the field and the plant during asphalt placement operations. We will not need to rely on sub-contractors to fulfill this requirement, thus eliminating potential coordination and scheduling complexity.

Timely Initiation and Completion of Work

Our Senior Project Engineer, Karle Maye, PE, once notified of award, coordinates an internal Kick-off Meeting. During this meeting, we establish:

- The date of the Preconstruction Meeting in coordination with the County Project Manager
- Assign appropriate and dedicated inspection personnel to the project.
- Begin administrative preparations with our PA, James Cuneo
- Review start plan, specifications, and constructability reviews for MOT phasing issues.

CAPACITY / RESOURCE AVAILABILITY

The CSI Geo Team with our subconsultant firms have an available project team with the capabilities and appropriate equipment to begin work immediately upon notification of award of any future project. We have the in-house resources of a design firm, construction engineering and inspection firm, geotechnical engineers, and a construction materials laboratory to aid in problem solving. By combining resources of multi-disciplined fields, we have the capability of sharing knowledge that would not be readily available outside the firm. We can build on those resources to solve problems faster and keep the project moving.

COMPLETION OF WORK

Our proposed team is committed and practiced in keeping projects moving forward on time while staying within budget. A few of the recent regional projects we have successfully managed are SR 20 Resurfacing (CR 325 to West of US 301), SR 126 (Emerson St.) in Jacksonville, and two Putnam County projects - CR 207A Bridge and Ashley Lake Drive/Blvd.

CSI Geo, Inc. provided CEI services for the 5.5 mile rural four lane divided highway resurfacing project in Alachua County, Florida. Work included mill/resurface, subgrade reconstruction, base, drainage improvements, cross-slope correction, super-elevation correction, curb/gutter, signage, sod, and other incidental construction. There were no complaints/issues from the businesses or residents within the project limits or from the traveling public. The project was completed within the allotted time and under budget.

We provided CEI services for FDOT on SR 126 (Emerson St.) in Jacksonville which had a Joint Project Agreement with JEA to install a larger watermain and connect to existing facilities. Though this project included an additional component, our team kept the contractor on schedule by resolving issues in a timely and forthright manner. Our efforts succeeded in allowing the contractor to be able to finish on time and within budget.

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Two of our recent county projects were successfully completed ahead of schedule and under budget. For example, the first project (CR 207A Bridge) was a Legislative funded triple span bridge in Putnam County that was completed two months ahead of schedule. The second project (Ashley Lake Drive/Blvd.) was an FDOT SCOP Dirt-to-Pavement Reconstruction project in Putnam County. This project was completed one month ahead of schedule and under budget. Our staff achieved this due to our review process of contractor schedules, change orders, and estimates. During reviews, our team noticed inconsistencies in the contractor's bid quantities verses the schedule on several items and resolved them to save the County funds and potential future claims of time.

Innovative Technology-Based Capacities and Examples

CSI Geo utilizes state of the art technology platforms for project management with the use of **Procore Construction Management software**. Our staff are currently utilizing Procore on the COJ ADA Ramp Rehabilitation Project and have used it on past projects such as JEA Wastewater Treatment Facility expansion on Amelia Concourse in Nassau County, JEA's Greenland Wastewater Treatment Facility expansion in Duval County and for Putnam County Resurfacing and Dirt-to-Pavement projects. By using this platform, access can be granted to all management, support, and inspection staff for up-to-date information and easy access to plans, daily reports, photos, schedules, specifications, processing progress meetings, RFI's, submittals and questions. This software is cloud based to reduce storage on shared drives.

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5. Quality Control

QUALITY ASSURANCE

The **QA/QC Manager** for the contract will be **Adam Norwood, PE**. and reports directly to the Principal-In-Charge William Price. In this capacity, he will be responsible for organizing QA/QC activities including coordinating with the CSI Geo Project Management Engineers and Technical Engineering Team, scheduling QA/QC activities, and coordinating with the agencies on their quality control requirements to ensure quality control functions are smoothly incorporated into the overall project work.

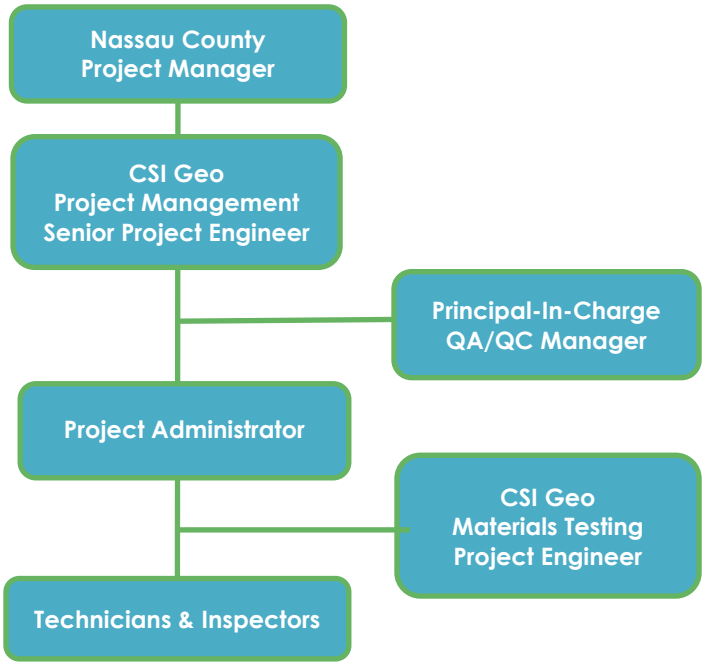
All Quality Control Reports issued by us will be periodically reviewed by Mr. Norwood to ensure their accuracy. Compliance with these procedures and policies is reviewed annually and appropriate changes are made when necessary. CSI Geo will make our QA/QC documents available to the County upon request. All personnel to be used on this contract will meet or exceed the criteria specified by the County.

QUALITY CONTROL

CSI Geo is aware of our clients' critical demands associated with meeting design construction project schedules. Adhering to project schedules is of critical importance for both financial and public relations concerns. Thus, for all projects it is very important to have a compact team that can deliver services quickly and efficiently with quality. Effective coordination of any activity begins with effective communication which is much more than simply maintaining the flow of documents to various participants. It will be the responsibility of our Senior Project Engineer, **Karle Maye, PE**, to assign the inspection staff and testing technicians to ensure proper information is provided to the team at the proper time. At the beginning of the task and upon receiving NTP, Mr. Maye will meet with in-house team members to ensure all are aware of their roles, the project's organizational structure, and the chain of command.

Internal progress meetings will be held on a weekly basis to review the status of each activity and the quality of the product. The meetings will also be used to identify areas that may become problems so corrective action can be taken in staffing assignments to not affect the schedule and/or whatever else is needed.

Mr. Maye will be the first level of management organization and schedule control. The exhibit at right illustrates the contract organization. As Senior Project Engineer, he will personally coordinate and ensure complete and consistent understanding of the project details with the individuals involved in the project effort. He will be responsible for approving fees, project schedules, and project tracking.



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CSI Geo takes pride in providing its clients with quality construction inspection. To achieve this, we have established a comprehensive QA/QC plan that covers all services provided by our company. We ensure high level services by using only qualified and certified personnel, using modern calibrated equipment, and strictly adhering to specifications and procedures. The QA/QC plan is based on the philosophy that:

- Quality is achieved by managers and individuals being aware of the work requirements and performing each function carefully, with the objective of "doing it right the first time"
- Quality is controlled by adequate training, planning, coordination, supervision, and technical direction, proper definition of job requirements and procedures, and the involvement of experienced professionals and technicians
- Quality is verified through checking, reviewing, and surveillance of work activities with documentation by objective individuals not directly responsible for the initial work
- Quality is assured by having a manager or designate perform quality assurance functions which involve monitoring and close review not only of the work itself, but of the procedures used in performing the work
- Quality is confirmed through an independent peer review by experienced professionals and technicians who evaluate compliance with procedures and the project constructability

As the consultant, we understand our responsibility for the accuracy and completeness of all services and products we provide. CSI Geo has a corporate-wide Quality Control Plan which is used as a standard on all our projects/contracts. The strict procedures inherent in this plan have enabled us to perform creditably on our projects for the various state, county, and municipal organizations we work with.

Our Quality control manual covers all aspects or procedures to ensure delivery of a quality product as follows:

- Organization and Organizational Policies
- Technical Management
- Quality Systems Management
- Equipment Calibration and Maintenance
- Sampling Testing and Reporting Procedures
- Document Chain and Control
- Diagnostic and Corrective Action
- Record Retention
- Technician Training and Evaluation Records

Our QA/QC process for field and laboratory testing encompasses a series of procedures, per our comprehensive QA/QC plan, which we normally follow with only slight modifications, depending on the project scope and our client's needs and budget. Our quality control procedures start early in the process and often prior to initiating any project. We use standard equipment and standard procedures recommended by ASTM, AASHTO, or other government institutions which provide field and laboratory testing performance guidelines or regulations. Additionally, all field and laboratory test data and reports are reviewed by the project engineer.

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In-House Laboratory Quality Control

Our laboratory is routinely inspected by the FDOT and periodically by AASHTO and USACE. As part of the certifications, our certified technicians are also required to demonstrate their understanding of the different laboratory tests by performing them in front of FDOT personnel and occasionally, on national standard samples. Depending on our client's budget and needs, the field engineer may remain on site while in-situ testing is taking place, assisting with the sampling and testing, providing engineering guidelines to our field testing crews, and communicating with project engineers and other applicable individuals. This ensures that the field personnel follow industry standards and that the procedures and results are in accordance with our client's requirements.

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6. References

The following information provides descriptions of our experience on similar projects and the manner in which we have successfully completed the work.

SR 20 RESURFACING (CR 325 TO W. OF US 301)

Client
Florida Department of Transportation, District 2

Reference
Patrick Gallagher, PE, Project Mgr
5301 N.E. 39th Avenue,
Gainesville, FL 32609
352-494-5240
patrick.gallagher@dot.state.fl.us

Relevant Services
- CEI Services

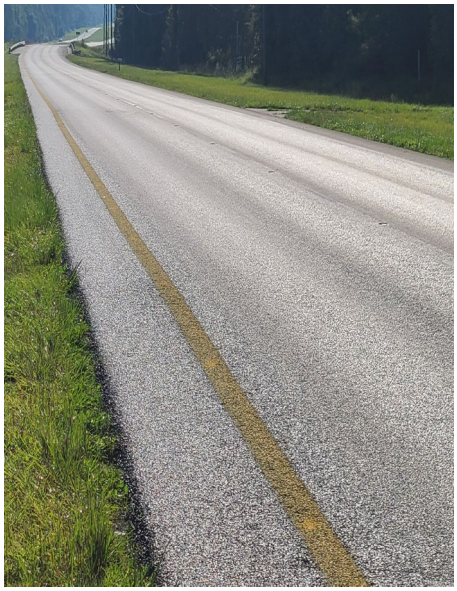
Performance Period
Feb 2022 – Jan 2023

Construction Contract Amount
$ 6,808,211

Team Members
Karle Maye, PE
James Cuneo

CSI Geo, Inc. provided Construction Engineering & Inspection services for the 5.5 mile rural four lane divided highway resurfacing project in Alachua County, Florida. The project was a full CEI oversight project with the inspection staff reporting directly to the CSI Geo project engineer.

Work included mill/resurface, subgrade reconstruction, base, drainage improvements, cross-slope correction, super-elevation correction, curb/gutter, signage, sod, and other incidental construction. Met with utility companies (ATT, Comcast amongst others) to resolve conflicts. The project was completed on time and within budget and there were no complaints from the businesses or residents within the project limits or from the traveling public.



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RIVERPLACE BOULEVARD PEDESTRIAN AND BICYCLE IMPROVEMENTS

Client
City of Jacksonville
Public Works

Reference
Tom McKnight
214 North Hogan Street
Jacksonville, FL 32202
904-255-8744
mcknight@coj.net

Relevant Services
- CEI Services
- CMT Services

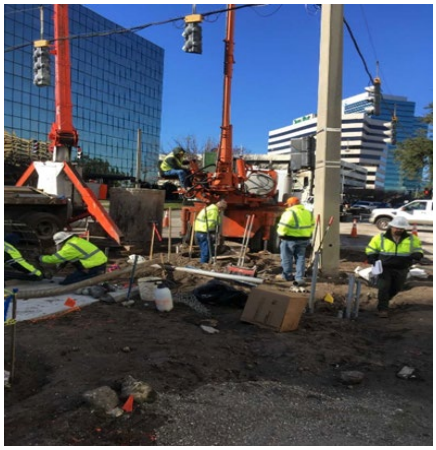
Performance Period
Mar 2018 – Dec 2019

Construction Contract Amount
$ 4,600,618

Team Members
Karle Maye, PE
James Cuneo

CSI Geo, Inc. provided Construction Engineering and Inspection services for this "Road Diet" project. Improvements included reducing the roadway from 5 lanes to 3 lanes, addition of bicycle lanes/keyholes, sidewalks, seat walls, and signal upgrades. Work included earthwork, base, storm drains, asphalt paving, sidewalk pavers, drill shafts, mast arms, directional borings, irrigation, and landscaping.

The project required intensive utility coordination due to numerous unforeseen conflicts with multiple utilities and existing drainage structures.



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RAMONA BOULEVARD IMPROVEMENTS

Client
City of Jacksonville
Public Works

Reference
Tom McKnight
214 North Hogan Street
Jacksonville, FL
904-255-8744
mcknight@coj.net

Relevant Services
- CEI Services
- CMT Services

Performance Period
Apr 2020 – Jun 2021

Construction Contract Amount
$ 3,093,478

Team Members
Karle Maye, PE
James Cuneo

CSI Geo, Inc. provided Construction Engineering and Inspection services for this widening and reconstruction project. Improvements included ROW clearing, earthwork, base, storm drainage, asphalt paving, bike lanes, sidewalks, curb and gutter, intersection improvements, signalization, lighting, signing, and pavement marking. Work also included relocation of JEA water line.

The project required intensive utility coordination due to numerous existing utilities and drainage structures.

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CR 216 WIDENING AND RESURFACING

Client
Putnam County Public Works

Reference
Michael Nimitz
Former Engineering Manager and Assistant Public Works Director at Putnam County
(Presently employed by JTA)
100 LaVilla Center Drive, Jacksonville, FL 32204
904-632-5279
mnimitz@jtafla.com

Relevant Services
- CEI Services
- FDOT TRIP-Funded County Project

Performance Period
Jul 2018 – Mar 2019

Construction Contract Amount
$ 2.95 Million Combined
Utilizing:
FDOT TRIP Funds
Georgia Pacific Funds
Putnam County Funds

Team Members
Karle Maye, PE
James Cuneo

This FDOT Transportation Regional Incentive Program (TRIP) consisted of the construction of a bi-directional turn lane with widening. CR 216 was in need of engineering design and construction services for increased capacity at the Georgia Pacific Paper Corporation entrances which would improve conditions, as well as ease traffic flow in the area. These improvements provided the community and the traveling public with a safer County Road that meets the long-term traffic demands with daily excessive tractor trailer and residential usage.

CSI Geo provided construction engineering inspection services for this project. These services included:

- Documentation of construction activities on project daily reports
- Coordination meetings with Engineer of Record, utility companies, Georgia Pacific, Contractor, and Putnam County Public Works
- Documentation of weather conditions
- Tracking of quantities for estimate payments
- Documentation of materials ensuring specifications were met
- Overseeing of materials testing
- Close-out documentation
- As-Built plans

CSI Geo also provided construction materials testing for this contract.

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ASHLEY LAKE DR. & BLVD. RESIDENTIAL DIRT TO PAVEMENT PROJECT

Client
Putnam County Public Works

Reference
Michael Nimitz
Former Engineering Manager and Assistant Public Works Director at Putnam County
(Presently employed by JTA)
100 LaVilla Center Drive, Jacksonville, FL 32204
904-632-5279
mnimitz@jtafla.com

Relevant Services
- CEI Services
- FDOT SCOP-Funded County Project

Performance Period
Oct 2018 – Aug 2020
Under Construction

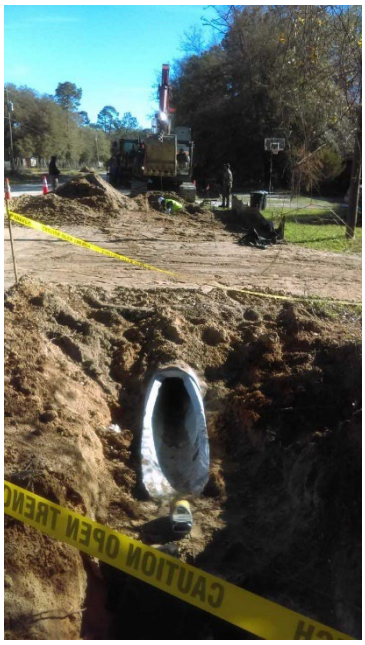
Construction Contract Amount
$ 2,162,963

Team Members
Karle Maye, PE
James Cuneo
Shams Horri

This FDOT Small County Outreach Program (SCOP) consisted of the re-construction of a dirt to pavement residential road. Ashley Lake Subdivision was in need of engineering design and construction services for increased capacity which would improve conditions, as well as ease traffic flow in the area. These improvements provided the community and the traveling public with a safer residential County Road that meets the long-term traffic demands.

CSI Geo provided construction engineering inspection services for this project. These services included:

- Documentation of construction activities on project daily reports
- Coordination meetings with Engineer of Record, utility companies, contractor, and Putnam County Public Works
- Documentation of weather conditions
- Tracking of quantities for estimate payments
- Documentation of materials to ensure they met specifications
- Overseeing of materials testing
- Close-out documentation
- As-Built plans



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EMERSON STREET (SR 126) FROM SPRING PARK ROAD TO HART EXPRESSWAY

Client
FDOT Jacksonville Construction

Reference
Guelmary Mendez, Project Mgr
2198 Edison Avenue
Jacksonville, FL 32204
904-360-5552
Guelmary.mendez@dot.state.fl.us

Relevant Services
- CEI Services
- FDOT-Funded County Project

Performance Period
Jan 2016 – Apr 2017

Construction Contract Amount
$ 1,814,284

Team Members
Karle Maye, PE
Shams Horri
Brandon Wheeler

The Emerson Street project involved the resurfacing of Emerson Street (SR 126) from Spring Park Road to the Hart Expressway.

The roadway is parabolic in nature and close attention to quantities and cross-slopes had to be maintained. The contract also had a Joint Project Agreement (JPA) with JEA to install a 12-inch water main within the project limits. Numerous conflicts with other utilities were encountered during the placement of the pipe and were resolved in an expedient and cost-effective manner. Work also included stabilized subgrade, limerock base, curb & gutter, sidewalks, curb ramps, erosion control, signing and signalization, pavement markings, and phased maintenance of traffic. CSI Geo staff provided on-site inspection of the contractor's work effort and full-time asphalt plant inspection.

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7. Current Workload

Currently CSI Geo's CEI Department has two ongoing projects. This makes us immediately available to start work upon Notice to Proceed. We understand that our current and projected staff workload levels will play an important role in the performance of this contract; therefore, we will not permit any future assignments to conflict with this Nassau County contract.

CSI Geo's CEI Department is the Prime Consultant on the following projects.

Current Projects	Scope of the Project	Status Complete
COJ ADA Ramp Design/Build	Correction of out of ADA tolerance ramps throughout the City of Jacksonville.	**40%**
FDOT Clet Harvey Bridge Replacements	Replacement of 2 wooden bridges on Clet Harvey Road.	**0%, Just Awarded**

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8. PRICE/RATE

This solicitation is being issued in accordance with Florida Statutes Chapter 287.055 "Consultants' Competitive Negotiation Act", and therefore price cannot and will not be a determining factor in the selection of the successful firm. The County will request price/hourly rates once the most qualified firm is selected. The County reserves the right to negotiate price/hourly rates. **DO NOT SUBMIT RATES OR ANY PRICING DETAIL WITH RFQ RESPONSE.**

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9. Attachments/Administrative Information

Required Forms
License / Certifications

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1

FORM A
ADDENDA ACKNOWLEDGMENT

Acknowledgment is hereby made of receipt of addenda issued during the solicitation period. Addendum # 0 through # 0	
Signature of Person Completing:	**Date:** 1/16/2024
Printed Name: William Price	**Title:** President

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FORM B
SWORN STATEMENT
UNDER FLORIDA STATUTE 287.133(3)(a) ON PUBLIC ENTITY CRIMES

TO BE RETURNED WITH BID

THIS MUST BE SIGNED IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICER AUTHORIZED TO ADMINISTER OATHS.

1. This sworn statement is submitted with Bid, Proposal or Contract for CEI Services for Chester Road and Pages Dairy Road Intersection Improvements Projects.

2. This sworn statement is submitted by CSI Geo, Inc. (entity submitting sworn statement), whose business address is 2394 St. Johns Bluff Road, South, Suite 200, Jacksonville, FL 32246 and its Federal Employee Identification Number (FEIN) is 26-1171128. (If the entity has no FEIN, include the Social Security Number of the individual signing this sworn statement: _____.)

3. My name is William Price (please print name of individual signing), and my relationship to the entity named above is President.

4. I understand that a "public entity crime" as defined in Paragraph 287.133(1)(g), Florida Statutes, means 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 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, any leases for real property, or any contract for the construction or repair of a public building or public work, to be provided to any public entity or an agency or political subdivision of any other state or of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.

5. I understand that "convicted" or "conviction" as defined in paragraph 287.133(1)(b), Florida Statutes, means a finding of guilt or a conviction or a public entity crime, with or without an adjudication of guilt, in any federal or state trial court of record relating to charges brought by indictment or information after July 1, 1989, as a result of a jury verdict, non-jury trial, or entry of a plea of guilty or nolo contendere.

6. I understand that an "affiliate" as defined in paragraph 287.133(1)(a), Florida Statutes, means:
    a. A predecessor or successor of a person convicted of a public entity crime; or
    b. An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one person of shares constituting a controlling interest in another person, or a pooling of equipment or income among persons when not to fair market value under an arm's length agreement, shall be prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding thirty-six (36) months shall be considered an affiliate.

7. I understand that a "person" as defined in Paragraph 287.133(1)(e), Florida Statutes, means any natural person or entity organized under the laws of any state or of the United States with the legal power to enter into binding contract and which bids or applies to bid on contracts let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers, directors, executives, partners, shareholders, employees,

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members, and agents who are active in management of an entity. 8. Based on information and belief, the statement, which I have marked below, is true in relation to the entity submitting this sworn statement. (***Please indicate which statement applies.***)

☑ Neither the entity submitting this sworn statement, nor any of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, nor any affiliate of the entity have been charged with and convicted of a public entity crime subsequent to July 1, 1989.

☐ The entity submitting this sworn statement, or one of more of the officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989, and (Please indicate which additional statement applies.)

☐ There has been a proceeding concerning the conviction before a hearing officer of the State of Florida, Division of Administrative Hearings. The final order entered by the Hearing Officer did not place the person or affiliate on the convicted vendor list. (Please attach a copy of the final order.)

☐ The person or affiliate was placed on the convicted vendor list. There has been a subsequent proceeding before a hearing officer of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer determined that it was in the public interest to remove the person or affiliate from the convicted vendor list. (Please attach a copy of the final order.)

☐ The person or affiliate has not been placed on the convicted vendor list. (Please describe any action taken by or pending with the Department of General Services.)

Signature

1/16/2024
Date

State of: Florida
County of: Duval

Sworn to (or affirmed) and subscribed before me by means of _____ physical presence or __X__ online notarization, this 16th day of January, 20 24 by William Price who is X personally known to me or ___ produced _____ as identification.

Notary Public
My commission expires: 2/18/2025

JILL R RENZI
Notary Public - State of Florida
Commission # HH 95141
My Comm. Expires Feb 18, 2025
Bonded through National Notary Assn.

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FORM C
RESPONDENT QUESTIONNAIRE

The following questionnaire shall be answered by the Respondent for use in the evaluation process.

1. Company Name: CSI Geo, Inc.
   Address: 2394 St. Johns Bluff Road, South, Suite 200
   City/State/Zip: Jacksonville, FL 32246
   Phone: Email: 904-641-1993 / wprice@csi-geo.com
   Website Address: www.csi-geo.com

2. **COMPANY STRUCTURE:**
   ☐Sole Proprietor ☐Partnership ■Corporation ☐Other_____

3. Are you registered with the FL Secretary of State to conduct business? ■Yes ☐No

4. Are you properly licensed/certified by the Federal or State to perform the specified services?
   ■Yes ☐No

5. **EXPERIENCE:**
   Years in business: 16 Years
   Years in business under this name: 16 Years
   Years performing this type of work: 16 Years
   Value of work now under contract: 12,234 Million
   Value of work in place last year: 6,885 Million
   Percentage (%) of work usually self-performed: 88%
   Name of sub-vendors you may use: RS&H, Gibbs Group, Eisman & Russo
   Has your company: Failed to complete or defaulted on a contract: ☐Yes ■No
   Been involved in bankruptcy or reorganization: ☐Yes ☐No
   Pending judgment claims or suits against firm: ☐Yes ■No

6. **PERSONNEL**
   How many employees does your company employ: 48
   (may use additional sheets if needed).

Position/Category (List all)	Full-time	Part-time
Management	7	0
Site/Crew Supervisors	7	0
Workers/Laborers	24	2
Clerical	3	0
Other	5	0

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7. REFERENCES:

List at least three references for which you have provided these services (similar scope/size) in the past five years - preferably government agencies.

Reference #1:
Company/Agency Name: Florida Department of Transportation, District 2
Address: 5301 NE 39th Avenue, Gainesville, FL 32609
Contract Person: Patrick Gallagher, PE, Project Manager
Phone: Email: 352-494-5240 / patrick.gallagher@dot.state.fl.us
Project Description: SR 20 Resurfacing *CR 325 to West of US 301)
Contract $ Amount: $6,808,211
Date Completed: 1/2023

Reference #2:
Company/Agency Name: City of Jacksonville, Public Works
Address: 214 North Hogan Street, Jacksonville, FL 32202
Contract Person: Tom McKnight
Phone: Email: 904-255-8744 / mcknight@coj.net
Project Description: Riverplace Boulevard Pedestrian and Bicycle Improvements
Contract $ Amount: $4,600,618
Date Completed: 12/2109

Reference #3:
Company/Agency Name: Putnam County, Public Works
Address: PO Box 310, East Palatka, FL 32131
Contract Person: Michael Nimitz
Phone: Email: 904-632-5279 / mnimitz@jtafla.com
Project Description: Ashley Lake Drive and Boulevard Residential Dirt to Pavement Project
Contract $ Amount: $2,162,963
Date Completed: 8/2020

8. NOTICE OF PARTIES AND BINDING AUTHORITY

The following information is required if Respondent is selected for award of a contract with the County.

Notice to Parties

All notices, demands, requests for approvals or other communications shall be in writing, and shall be sent by registered or certified mail, postage prepaid, return receipt requested, or overnight delivery service (such as federal express), or courier service or by hand delivery to:

Contractor Name: CSI Geo, Inc.
Attn: William Price
Mailing Address: 2394 St. Johns Bluff Road, South, Suite 200, Jacksonville, FL 32246

Binding Authority

The person to execute the contract must be an officer of the company. If not an officer of the company, Respondent must provide proof of signing authority. Please provide the name, email address, and phone number of person who will execute the contract, if awarded.
Name of Person to execute contract (if awarded): William Price
Title: President
Email Address: wprice@csi-geo.com
Phone Number: 904-641-1993

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FORM D
DRUG FREE WORKPLACE CERTIFICATE

I, the undersigned, in accordance with Florida Statute 287.087, hereby certify that CSI Geo, Inc. (print or type name of firm):

1. 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.

2. 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.

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

4. 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.

5. 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.

6. Makes a good faith effort to continue to maintain a drug free workplace through the implementation of a drug free workplace 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

1/16/2024
Date Signed

State of: Florida
County of: Duval

Sworn to (or affirmed) and subscribed before me by means of ____ physical presence or __X__ online notarization, this 16th day of January, 20 24 by William Price who is X personally known to me or ___ produced _____ as identification.

Notary Public
My commission expires: 2/18/2025

JILL R RENZI
Notary Public - State of Florida
Commission # HH 95141
My Comm. Expires Feb 18, 2025
Bonded through National Notary Assn.

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FORM E
E-VERIFY AFFIDAVIT

NASSAU COUNTY E-VERIFY FORM UNDER SECTION 448.095, FLORIDA STATUTES

Project Name: CEI Services for Chester Road and Pages Dairy Road Intersection Improvements Projects
Bid No./Contract No.: NC23-065

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 CSI Geo, Inc. (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 CSI Geo, Inc. (Contractor Company Name) proof of registration in the E-Verify system is attached to this Affidavit.

Print Name: William Price
Date: 1/16/2024

STATE OF FLORIDA
COUNTY OF Duval

The foregoing instrument was acknowledged before me by means of □physical presence or ☒online notarization, this 1/16/2024 (Date) by William Price (Name of Officer or Agent, Title of Officer or Agent) of CSI Geo, 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.

Notary Public
Jill Renzi
Printed Name

My Commission Expires: 2/18/2025

JILL R RENZI
Notary Public - State of Florida
Commission # HH 95141
My Comm. Expires Feb 18, 2025
Bonded through National Notary Assn.

An official website of the United States government Here's how you know
DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1

My Company Profile

Company Information

Company Name
CSI Geo, Inc.

Doing Business As (DBA) Name
CSI Geo, Inc.

Company ID
387632

Enrollment Date
Jan 25, 2011

Employer Identification Number (EIN)
261171128

Unique Entity Identifier (UEI)
MCWLFZVMMJC3

DUNS Number
828716147

Total Number of Employees
20 to 99

NAICS Code
541

Sector
Professional, Scientific, and Technical Services

Subsector
Professional, Scientific, and Technical Services

Edit Company Information

Employer Category

Employer Category
Federal Contractor with FAR E-Verify Clause

Edit Employer Category

Company Addresses

Physical Address
2394 St. Johns Bluff Road. South Suite 200
Jacksonville, FL 32246

Mailing Address

Hiring Sites

Number of Sites
1

Edit Hiring Sites

Same as Physical Address

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Edit Company Addresses

Company Access and MOU

My Company is Configured to:

Verify Its Own Employees

Memorandum of Understanding

View Current MOU

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FORM E - 2
SUBCONTRACTOR E-VERIFY AFFIDAVIT

I hereby certify that RS&H, 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 RS&H, Inc. (Subcontractor Company Name) proof of registration in the E-Verify system is attached to this Affidavit.

Print Name: William Downey, PE, LEED AP
Date: January 11, 2024

STATE OF FLORIDA
COUNTY OF Seminole

The foregoing instrument was acknowledged before me by means of ☒physical presence or ☐online notarization, this January 11, 2024 (Date) by William Downey (Name of Officer or Agent, Title of Officer or Agent) of RS+H, 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.

Notary Public
Ashley N Bishop
Printed Name

My Commission Expires: 8/26/25

ASHLEY BISHOP
Notary Public - State of Florida
Commission # HH 170177
My Comm. Expires Aug 26, 2025
Bonded through National Notary Assn.

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E-Verify Employment Eligibility Verification

Welcome User ID Last Login 09:33 AM - 05/19/2014 Log Out

Click any ? for help

Home
My Cases
New Case
View Cases
Search Cases
My Profile
Edit Profile
Change Password
Change Security Questions
My Company
Edit Company Profile
Add New User
View Existing Users
Close Company Account
My Reports
View Reports
My Resources
View Essential Resources
Take Tutorial
View User Manual
Share Ideas
Contact Us

Company Information

Company Name: RS&H, Inc. View / Edit

Company ID Number: 204277
Doing Business As (DBA) Name:
DUNS Number:

Physical Location:

Address 1: 10748 Deerwood Park Blvd South
Address 2:
City: Jacksonville
State: FL
Zip Code: 32256
County: DUVAL

Mailing Address:

Address 1:
Address 2:
City:
State:
Zip Code:

Additional Information:

Employer Identification Number: 592986466
Total Number of Employees: 500 to 999
Parent Organization:
Administrator:

Organization Designation:

Employer Category: Federal Contractor with FAR E-Verify Clause
Federal Contractor Category: None of these categories apply
Employees being verified: Entire workforce (all new hires and all existing employees throughout the entire company)

NAICS Code: 541 - PROFESSIONAL, SCIENTIFIC, AND TECHNICAL SERVICES View / Edit

Total Hiring Sites: 1 View / Edit

Total Points of Contact: 2 View / Edit

View MOU

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1

FORM E - 2
SUBCONTRACTOR E-VERIFY AFFIDAVIT

I hereby certify that The Gibbs Group, 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 The Gibbs Group, Inc. (Subcontractor Company Name) proof of registration in the E-Verify system is attached to this Affidavit.

Print Name: Sheldon Gibbs, P.E.
Date: January 9, 2024

STATE OF FLORIDA
COUNTY OF Duval

The foregoing instrument was acknowledged before me by means of ☑physical presence or ☐online notarization, this 9th day of January (Date) by Sheldon Gibbs (Name of Officer or Agent, Title of Officer or Agent) of The Gibbs Group, 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.

Notary Public
Eric Sanders
Printed Name

My Commission Expires: 9/11/25

ERIC C. SANDERS
Notary Public - State of Florida
Commission # HH 174575
My Comm. Expires Sep 11, 2025
Bonded through National Notary Assn.

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1

E-VERIFY IS A SERVICE OF DHS AND SSA

Company ID Number: 2278726

Approved by:

Employer The Gibbs Group, Inc.	
Name (Please Type or Print) Sheldon D Gibbs	**Title**
Signature Electronically Signed	**Date** 09/22/2023
Department of Homeland Security – Verification Division	
Name (Please Type or Print) USCIS Verification Division	**Title**
Signature Electronically Signed	**Date** 09/22/2023

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E-VERIFY IS A SERVICE OF DHS AND SSA

Company ID Number: 2278726

Information Required for the E-Verify Program **Information relating to your Company:**	
Company Name	The Gibbs Group, Inc.
Company Facility Address	7400 Baymeadows Way Suite 215 Jacksonville, FL 32256
Company Alternate Address	
County or Parish	DUVAL
Employer Identification Number	208842561
North American Industry Classification Systems Code	541
Parent Company	
Number of Employees	5 to 9
Number of Sites Verified for	1 site(s)

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1

FORM E - 2
SUBCONTRACTOR E-VERIFY AFFIDAVIT

I hereby certify that Eisman & Russo, 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 Eisman & Russo, Inc. (Subcontractor Company Name) proof of registration in the E-Verify system is attached to this Affidavit.

Print Name: John Pappas, PE
Date: 1/15/2024

STATE OF FLORIDA
COUNTY OF Duval

The foregoing instrument was acknowledged before me by means of ☑physical presence or □online notarization, this 15th day of Jan 2024 (Date) by John Pappas, PE (Name of Officer or Agent, Title of Officer or Agent) of Vice President/ COO (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
Angila M. Maxwell
Printed Name

ANGILA M. MAXWELL
MY COMMISSION # HH 371086
EXPIRES: May 5, 2027

My Commission Expires: _____

Company ID Number: 454480

To be accepted as a participant in E-Verify, you should only sign the Employer's Section of the signature page. If you have any questions, contact E-Verify at 888-464-4218.

Employer Eisman & Russo, Inc. **Greene Michael**	
Name (Please Type or Print) ***Electronically Signed***	Title **10/06/2011**
Signature	Date
Department of Homeland Security – Verification Division **USCIS Verification Division**	
Name (Please Type or Print) **Electronically Signed**	Title **10/06/2011**
Signature	Date

Information Required for the E-Verify Program

Information relating to your Company:

Company Name:	**Eisman & Russo, Inc.**
Company Facility Address:	**6455 Powers Avenue**
	Jacksonville, FL 32217
Company Alternate Address:	
County or Parish:	**DUVAL**
Employer Identification Number:	**592606484**

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1

Company ID Number: 454480

North American Industry Classification Systems Code:	**541**
Administrator:	
Number of Employees:	**20 to 99**
Number of Sites Verified for:	**1**

Are you verifying for more than 1 site? If yes, please provide the number of sites verified for in each State:

- FLORIDA 1 site(s)

Information relating to the Program Administrator(s) for your Company on policy questions or operational problems:

Name:	**Greene F Michael**		
Telephone Number:	**(904) 733 - 1478**	Fax Number:	
E-mail Address:	**mgreene@eismanrusso.com**		
Name:	**Angila M Maxwell**		
Telephone Number:	**(904) 733 - 1478**	Fax Number:	**(904) 636 - 8828**
E-mail Address:	**amaxwell@eismanrusso.com**		
Name:	**Kari S Zeaiter**		
Telephone Number:	**(904) 733 - 1478**	Fax Number:	**(907) 636 - 8828**
E-mail Address:	**kzeaiter@eismanrusso.com**		

THE OFFICIAL SITE OF THE FLORIDA DEPARTMENT OF BUSINESS & PROFESSIONAL REGULATION

ONLINE SERVICES

Apply for a License
Verify a Licensee
View Food & Lodging Inspections
File a Complaint
Continuing Education Course Search
View Application Status
Find Exam Information
Unlicensed Activity Search
AB&T Delinquent Invoice & Activity List Search

LICENSEE DETAILS

1:13:55 PM 1/7/2024

Licensee Information

Name:	**CSI GEO, INC. (Primary Name)**
	CSI GEO (DBA Name)
Main Address:	**2394 ST JOHNS BLUFF ROAD, S, STE 200 JACKSONVILLE Florida 32246**
County:	**DUVAL**

License Information

License Type:	**Engineering Business Registry**
Rank:	**Registry**
License Number:	**34669**
Status:	**Current**
Licensure Date:	**01/16/2021**
Expires:	

Special Qualifications	Qualification Effective

Alternate Names

View Related License Information
View License Complaint

The State of Florida is an AA/EEO employer. **Copyright 2007-2010 State of Florida. Privacy Statement**

Under Florida law, email addresses are public records. If you do not want your email address released in response to a public-records request, do not send electronic mail to this entity. Instead, contact the office by phone or by traditional mail. If you have any questions, please contact 850.487.1395. *Pursuant to Section 455.275(1), Florida Statutes, effective October 1, 2012, licensees licensed under Chapter 455, F.S. must provide the Department with an email address if they have one. The emails provided may be used for official communication with the licensee. However email addresses are public record. If you do not wish to supply a personal address, please provide the Department with an email address which can be made available to the public. Please see our **Chapter 455** page to determine if you are affected by this change.

Print

Licensee

Name:	**CSI GEO, INC.**	License Number:	**34669**
Rank:	**Registry**	License Expiration Date:	
Primary Status:	**Current**	Original License Date:	**01/16/2021**

Related License Information

License Number	Status	Related Party	Relationship Type	Relation Effective Date	Rank	Expiration Date
77294	Current, Active	IYA, JOHN ANYISANA	Registry		Professional Engineer	02/28/2025

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1

State of Florida
Department of State

I certify from the records of this office that CSI GEO, INC. is a corporation organized under the laws of the State of Florida, filed on September 21, 2007.

The document number of this corporation is P07000105750.

I further certify that said corporation has paid all fees due this office through December 31, 2024, that its most recent annual report/uniform business report was filed on January 15, 2024, and that its status is active.

I further certify that said corporation has not filed Articles of Dissolution.

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Fifteenth day of January, 2024

Secretary of State

Tracking Number: 8598909740CC

To authenticate this certificate,visit the following site,enter this number, and then follow the instructions displayed.

https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1

2023 - 2024 LOCAL BUSINESS TAX RECEIPT

JIM OVERTON, DUVAL COUNTY TAX COLLECTOR

231 E. Forsyth Street, Suite 130, Jacksonville, FL 32202-3370
Phone: (904) 255-5700, option 3 Fax: (904) 255-8403
https://taxcollector.coj.net/

Note – A penalty is imposed for failure to keep this receipt exhibited conspicuously at your place of business. This business tax receipt is furnished pursuant to Municipal Ordinance Code, Chapters 770-772, for the period October 01, 2023 through September 30, 2024 .

CSI GEO, INC
2394 S ST JOHNS BLUFF RD
JACKSONVILLE, FL 32246

ACCOUNT NUMBER: 149273
BUSINESS NAME: CSI GEO, INC
PHYSICAL ADDRESS: 2394 S ST JOHNS BLUFF RD
JACKSONVILLE, FL 32246

CLASSIFICATION CODE: 325007 CONSULTANT

STATE LICENSE NO:

COUNTY TAX:	30.00
MUNICIPAL TAX:	100.00
COUNTY LATE PENALTY:	0.00
MUNICIPAL LATE PENALTY:	0.00
TOTAL TAX:	**130.00**

RENEWAL

VALID UNTIL September 30, 2024

2023 - 2024

ATTENTION

THIS RECEIPT IS FOR BUSINESS TAX RECEIPT ONLY.
CERTAIN BUSINESSES MAY REQUIRE ADDITIONAL STATE LICENSING.

This is a business tax receipt only. It does not permit the receipt holder to violate any existing regulatory or zoning laws of the County or City. It does not exempt the receipt holder from any other license or permit required by law. This is not a certification of the receipt holder's qualifications.

JIM OVERTON, TAX COLLECTOR

THIS BECOMES A RECEIPT AFTER VALIDATION.

Paid 23080900002049 08/09/2023 $130.00

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1

Ron DeSantis, Governor

Melanie S. Griffin,Secretary

FBPE
FLORIDA BOARD OF PROFESSIONAL ENGINEERS

STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE
PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

MAYE, KARLE ANTHONY

16506 SW 50TH AVE
ARCHER FL 32618

LICENSE NUMBER: PE64016

EXPIRATION DATE: FEBRUARY 28, 2025

Always verify licenses online at MyFloridaLicense.com

Do not alter this document in any form.

This is your license. It is unlawful for anyone other than the licensee to use this document.

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Ron DeSantis, Governor

Melanie S. Griffin,Secretary

FBPE
FLORIDA BOARD OF PROFESSIONAL ENGINEERS

STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE
PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

CAPSTICK, LIAM SAMUEL

12840 ALLPORT ROAD
JACKSONVILLE FL 32258

LICENSE NUMBER: PE88619

EXPIRATION DATE: FEBRUARY 28, 2025

Always verify licenses online at MyFloridaLicense.com

Do not alter this document in any form.

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Ron DeSantis, Governor

Melanie S. Griffin,Secretary

FBPE
FLORIDA BOARD OF PROFESSIONAL ENGINEERS

STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE
PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

NORWOOD, ADAM H.

2149 MINERVA AVENUE
JACKSONVILLE FL 32207-3331

LICENSE NUMBER: PE51630

EXPIRATION DATE: FEBRUARY 28, 2025

Always verify licenses online at MyFloridaLicense.com

Do not alter this document in any form.

This is your license. It is unlawful for anyone other than the licensee to use this document.

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Florida UCP DBE Directory

Number of Records Returned: 1
Selection Criteria:
Vendor : CSI GEO INC

Vendor Name: CSI GEO INC
DBE Certification: CERTIFIED **MBE Certification:**
DBA: **Former Name:**
Business Description: GEOTECHNICAL ENGINEERING LABORATORY MATERIALS TESTING CONSTRUCTION INSPECTION CONSTRUCTION MANAGEMENT

Mailing AddressJ: 2394 ST JOHNS BLUFF ROAD S SUITE
200
JACKSONVILLE, FL 32246-

Contact Name: WILLIAM R PRICE **Phone:** (904) 641-1993 **Fax:** (904) 645-0057
Email: WPRICE@CSI-GEO.COM
ACDBE Status: N
Statewide Availability: Y

Certified NAICS

541330	Engineering Services
541380	Testing Laboratories
541990	All Other Professional, Scientific, and Technical Services

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1

THIS CERTIFIES THAT

CSI Geo, Inc.

NMSDC
National Minority Supplier Development Council

* Nationally certified by the: **FLORIDA STATE MINORITY SUPPLIER DEVELOPMENT COUNCIL**

*NAICS Code(s): 541380; 541350; 541340; 541330

* Description of their product/services as defined by the North American Industry Classification System (NAICS)

02/28/2023
Issued Date

FL03249
Certificate Number

02/28/2024
Expiration Date

Ying McGuire
NMSDC CEO and President

Beatrice Louissaint, President & CEO

By using your password (NMSDC issued only), authorized users may log into NMSDC Central to view the entire profile: http://nmsdc.org

Certify, Develop, Connect, Advocate.

* MBEs certified by an Affiliate of the National Minority Supplier Development Council, Inc.®

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1

Florida Department of Transportation

RON DESANTIS
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

JARED W. PERDUE, P.E.
SECRETARY

August 10, 2023

William Price, President
CSI GEO, INC.
2394 St. Johns Bluff Road South, Suite 200
Jacksonville, Florida 32246

Dear Mr. Price:

The Florida Department of Transportation has reviewed your application for prequalification package and determined that the data submitted is adequate to technically prequalify your firm for the following types of work:

Group 9 - Soil Exploration, Material Testing and Foundations

- 9.1 - Soil Exploration
- 9.2 - Geotechnical Classification Laboratory Testing
- 9.3 - Highway Materials Testing
- 9.4.1 - Standard Foundation Studies
- 9.4.2 - Non-Redundant Drilled Shaft Bridge Foundation Studies
- 9.5 - Geotechnical Specialty Laboratory Testing

Group 10 - Construction Engineering Inspection

- 10.1 - Roadway Construction Engineering Inspection
- 10.3 - Construction Materials Inspection
- 10.4 - Minor Bridge & Miscellaneous Structures CEI

Your firm is now technically prequalified with the Department for Professional Services in the above referenced work types. The overhead audit has been accepted, and your firm may pursue projects in the referenced work types with fees of any dollar amount. This status shall be valid until June 30, 2024, for contracting purposes.

Approved Rates

Home/ Branch Overhead	Field Overhead	Facilities Capital Cost of Money	Premium Overtime	Reimburse Actual Expenses	Home Direct Expense	Field Direct Expense	Published Fee Schedule
232.43%	135.55%	0.771%	Excluded	No	9.65%	0.31%*	Yes

*Rent and utilities excluded from field office rate. These costs will be directly reimbursed on contracts that require the consultant to provide field office.

Per Title 23, U.S. Code 112, there are restrictions on sharing indirect cost rates. Refer to Code for additional information.

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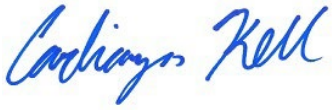
Should you have any questions, please feel free to contact me by email at carliayn.kell@dot.state.fl.us or by phone at 850-414-4597.

Sincerely,



Carliayn Kell
Professional Services
Qualification Administrator

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 3/29/2023

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 GHG Insurance 1000 Riverside Ave., Suite 500 Jacksonville FL 32204	**CONTACT NAME:** Kim Miazga **PHONE (A/C, No, Ext):** 904-421-8600 **FAX (A/C, No):** 904-421-8601 **E-MAIL ADDRESS:** info@ghgins.com
INSURED CSIGEOI-01 CSI Geo Inc. 2394 St. Johns Bluff Road Suite 200 Jacksonville FL 32246	**INSURER(S) AFFORDING COVERAGE** — **NAIC #** **INSURER A :** ICW Group — 27847 **INSURER B :** Phoenix Insurance Company — 25623 **INSURER C :** Travelers Property Casualty Company of America — 25674 **INSURER D :** StarStone Specialty Insurance Company — 44776 **INSURER E :** Charter Oak Fire Insurance Company — 25615 **INSURER F :**

COVERAGES **CERTIFICATE NUMBER:** 1363168032 **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	
E	X **COMMERCIAL GENERAL LIABILITY** [ ] CLAIMS-MADE [X] OCCUR X Contractual Liab X XCU not excluded GEN'L AGGREGATE LIMIT APPLIES PER: [ ] POLICY [X] PRO-JECT [ ] LOC [ ] OTHER:			660-S097711	4/1/2023	4/1/2024	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG [ ]	$ 1,000,000 $ 300,000 $ 0 $ 1,000,000 $ 2,000,000 $ 2,000,000 $
B B	**AUTOMOBILE LIABILITY** [ ] ANY AUTO [ ] OWNED AUTOS ONLY [X] SCHEDULED AUTOS [X] HIRED AUTOS ONLY [X] NON-OWNED AUTOS ONLY [ ]			BA3N630146 BA0N112478	4/1/2023 4/1/2023	4/1/2024 4/1/2024	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident) [ ]	$ 1,000,000 $ $ $ $
C	X **UMBRELLA LIAB** [X] OCCUR **EXCESS LIAB** [ ] CLAIMS-MADE [ ] DED [X] RETENTION $ 10,000			CUP1S109622	4/1/2023	4/1/2024	EACH OCCURRENCE AGGREGATE [ ]	$ 5,000,000 $ 5,000,000 $
A	**WORKERS COMPENSATION AND EMPLOYERS' LIABILITY** Y / N ANYPROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? [N] **(Mandatory in NH)** If yes, describe under DESCRIPTION OF OPERATIONS below	N / A		WFL502510310	1/1/2023	1/1/2024	X PER STATUTE [ ] OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $ 1,000,000 $ 1,000,000 $ 1,000,000
D	Professional & Pollution Liab			82468L231APL	4/1/2023	4/1/2024	Aggregate/Per Claim	$2,000,000/$2M

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Umbrella Liability provides coverage over all policies except Professional/Pollution Liability and is follow form.

CERTIFICATE HOLDER

Sample certificate

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

Roger G. Gil

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ACORD 25 (2016/03) **The ACORD name and logo are registered marks of ACORD**

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Form **W-9**
(Rev. October 2018)
Department of the Treasury
Internal Revenue Service

Request for Taxpayer Identification Number and Certification

▶ Go to *www.irs.gov/FormW9* for instructions and the latest information.

Give Form to the requester. Do not send to the IRS.

Print or type. See Specific Instructions on page 3.

1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank.
CSI GEO, INC.

2 Business name/disregarded entity name, if different from above

3 Check appropriate box for federal tax classification of the person whose name is entered on line 1. Check only one of the following seven boxes.

☐ Individual/sole proprietor or single-member LLC ☑ C Corporation ☐ S Corporation ☐ Partnership ☐ Trust/estate

☐ Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ▶ _____

Note: Check the appropriate box in the line above for the tax classification of the single-member owner. Do not check LLC if the LLC is classified as a single-member LLC that is disregarded from the owner unless the owner of the LLC is another LLC that is **not** disregarded from the owner for U.S. federal tax purposes. Otherwise, a single-member LLC that is disregarded from the owner should check the appropriate box for the tax classification of its owner.

☐ Other (see instructions) ▶

4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):

Exempt payee code (if any) 5

Exemption from FATCA reporting code (if any) _____

(Applies to accounts maintained outside the U.S.)

5 Address (number, street, and apt. or suite no.) See instructions.
2394 St. Johns Bluff Road S., Suite 200

Requester's name and address (optional)

6 City, state, and ZIP code
Jacksonville, FL 32246

7 List account number(s) here (optional)

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Note: If the account is in more than one name, see the instructions for line 1. Also see *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Social security number
			–			–				

or

Employer identification number
2	6	–	1	1	7	1	1	2	8

Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
3. I am a U.S. citizen or other U.S. person (defined below); and
4. The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign Here | **Signature of U.S. person** ▶ [signature] **Date** ▶ 01/08/2024

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to *www.irs.gov/FormW9*.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

- Form 1099-INT (interest earned or paid)
- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)
- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding, *later.*

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NASSAU County

CSI Geo

Geotechnical · CMT · CEI

DocuSign Envelope ID: 8B12EC35-CCB4-4BCC-8F7E-D676E349BAD1

SCHEDULE OF PROPOSED CEI STAFF HOUR RATES (REV 03-04-24)

NAME OF CONTRACTOR: CSI Geo, Inc.

Proposal Number: NC23-065 PROFESSIONAL CONSTRUCTION ENGINEERING INSPECTION SERVICES FOR CHESTER ROAD AND PAGES DAIRY ROAD INTERSECTION IMPROVEMENTS PROJECT

1. Average hourly loaded labor rates:

CEI Senior Project Engineer/Project Manager	$ 239.28 hr.
CEI Project Engineer/Administrator	$ 173.33 hr.
CEI Senior Bridge/Roadway Inspector	$ 105.00 hr.
CEI Bridge/Roadway Inspector	$ 80.00 hr.
CEI Administrator	$ 76.83 hr.

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CSI Geo
Geotechnical • CMT • CEI

CEI STAFF ESTIMATE FOR CHESTER RD. & PAGES DAIRY RD. INTERSECTION IMPROVEMENTS (Rev 03-22-24)

NASSAU COUNTY ROADWAY PROJECT

Estimated Schedule

Project #	1
Notice to Proceed	05/17/24
Est. Construction Start Date	06/01/24
Construction Duration (days)	465
Construction End Date	09/09/25
CSI Geo Start Date	05/17/24
CSI Geo End Date	09/24/25
Total CSI Geo Duration (days)	495
Inspection Calendar Months	**NOTE**: Total CEI Calendar Months = 15.5

	2024												2025												TOTAL	TOTAL
Staff - (cal days)	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	MM	MH
Chester Rd. & Pages Dairy Rd. Int. Improv.(Nassau Co.)																										
Senior Project Manager/CEI Liaison																										
Senior Project Engineer					0.02	0.02	0.02	0.02	0.02	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05				0.59	102.1
Project Engineer/Administrator					0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.45				4.45	769.9
Contract Support Specialist																										
Resident Compliance Specialist																										
Sr Bridge/Rdwy Inspector						0.25	0.25	0.25	0.50	0.70	0.85	0.85	0.85	0.90	0.90	0.90	0.90	0.95	0.95	0.95					10.95	1894.4
Sr Bridge/Rdwy Inspector																										
Bridge/Rdwy Inspector						0.25	0.25	0.25	0.50	0.70	0.85	0.85	0.85	0.90	0.90	0.90	0.90	0.95	0.95	0.95					10.95	1894.4
Bridge/Rdwy Inspector																										
Asphalt Plant Technician																										
Inspector Aide																										
Estimate Auditor																										
Site Health & Safety Officer																										
Administrative/Secretarial						0.10	0.10	0.10	0.10	0.10	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.25	0.50				2.6	429.0
Total					0.22	0.82	0.82	0.82	1.32	1.74	2.09	2.09	2.19	2.29	2.29	2.29	2.29	2.39	2.39	2.49	1.00				29.54	5089.6

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PROJECT MANAGEMENT & INSPECTION SERVICES FOR CHESTER ROAD (Rev 03-22-24)
ESTIMATE OF CEI COSTS (Nassau Co.)

Project Staff	Rate		Total Hours	Total
Senior Project Manager/CEI Liaison	$ -			
Senior Project Engineer	$ 239.28		102.07	$ 24,423.31
Project Engineer/Administrator	$ 173.33		769.85	$ 133,438.10
Contract Support Specialist	$ -			
Resident Compliance Specialist	$ -			
Senior Bridge/Roadway Inspector	$ 105.00		1894.35	$ 198,906.75
Senior Bridge/Roadway Inspector	$ -			
Bridge/Roadway Inspector	$ 80.00		1894.35	$ 151,548.00
Bridge/Roadway Inspector	$ -			
Asphalt Plant Technician	$ -			
Inspector's Aide	$ -			
Estimate Auditor	$ -			
Site Health & Safety Officer	$ -			
Administrative/Secretarial	$ 76.83		429	$ 32,960.07
Inspection Cost Sub-Total				$ 541,276.23

Testing		Rate	Quantity	
Proctors		$ -		$ -
LBRs		$ -		$ -
Concrete Breaks(3 cyl.)		$ -		$ -
Organic Content		$ -		$ -
PH		$ -		$ -
Testing Cost Sub-Total				$ -

Total Estimated Cost $ 541,276.23