

RESOLUTION NO. 249

RESOLUTION OF THE BOARD OF COUNTY
COMMISSIONERS OF NASSAU COUNTY,
FLORIDA, RELATING TO DREDGE-FILL
PERMIT FOR AMELIA RIVER

WHEREAS, the State of Florida Department of Transportation has filed an application for a dredge-fill permit from the Board of County Commissioners of Nassau County, Florida for proposed dredging and filling in Amelia River and its adjoining marsh lands, and

WHEREAS, a biological survey study has been made by the Department of Environmental Regulation of the area to be dredged and filled and a copy of the report and findings of the Department of Environmental Regulation having been read into the record and duly considered, and

WHEREAS, the Board has determined that the issuance of the dredge-fill permit will not be contrary to the public interest,

NOW, THEREFORE, BE IT RESOLVED by the Board of County Commissioners, Nassau County, Florida, that a dredge-fill permit is hereby granted to the State of Florida Department of Transportation for dredging and filling in Amelia River and adjoining marsh lands, said areas being located in Sections 37, 46 and 5, Township 2 North, Range 28 East, as delineated on the sketches attached hereto and made a part of this Resolution,

BE IT FURTHER RESOLVED, that certified copies of this Resolution be forwarded to the State of Florida Department of Environmental Regulation and to the State of Florida Department of Transportation for consideration and approval.

ADOPTED by the Board of County Commissioners of Nassau County, Florida this 23rd day of March 1976.

BOARD OF COUNTY COMMISSIONERS OF
NASSAU COUNTY, FLORIDA.

BY John F. Armstrong Sr.

Dooley
Ex-Officio Clerk

Florida



Department of Transportation

REUBIN O'D. ASKEW
GOVERNOR

TOM WEBB, JR.
SECRETARY

Post Office Box 1089
Lake City, Florida
March 22, 1976

RE: Dredge-Fill Permits for Amelia River
Section 74060-2507(2505), Nassau County, Florida

The Honorable D. O. Oxley
Clerk of Circuit Court
Ex Officio Clerk to Board of County Commissioners
Nassau County
Fernandina Beach, Florida 32304

Dear Mr. Oxley:

It is the intent of the Department of Transportation to construct two high-level bridges over the Amelia River. It has been determined that some dredging and filling will be necessary in this area.

I am enclosing copies of the Dredge and Fill Permit Sketches, along with the biological survey made by the Department of Environmental Regulation, which must be read into the minutes of the Board of County Commissioners.

Please adopt the enclosed resolution, or one of your own, along with two copies of excerpts from the minutes of the meeting approving the permits.

Please send the information to me at the following address:
Elvin C. Lord, District Right-of-Way Engineer, Post Office Box 1089, Lake City, Florida 32055.

Yours very truly,

A handwritten signature in cursive script that reads "Elvin C. Lord".

Elvin C. Lord, P.L.S.
Dist. Right-of-Way Engineer

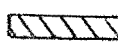
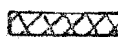
ECL:enm
Enclosures

NOTE:

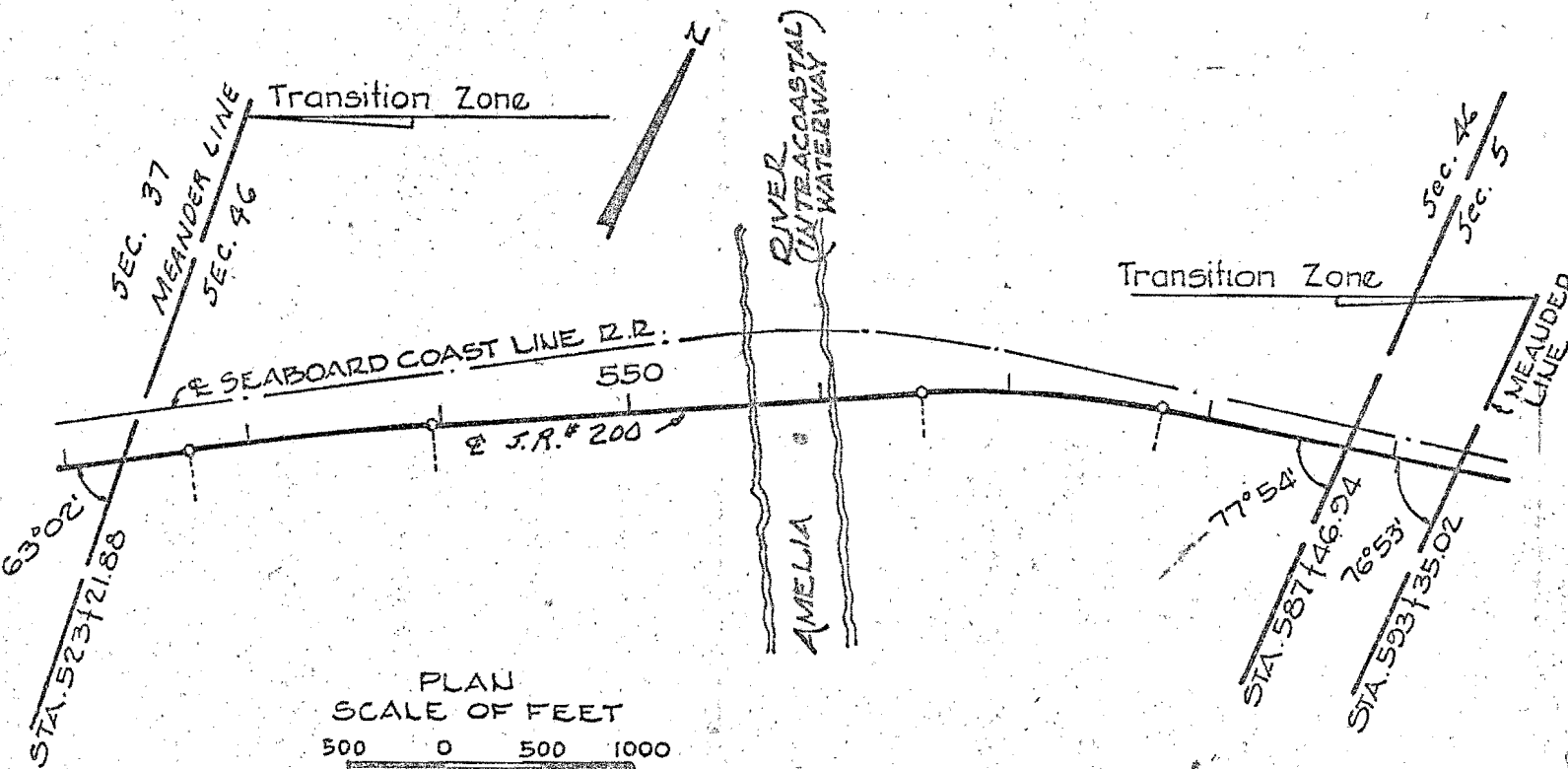
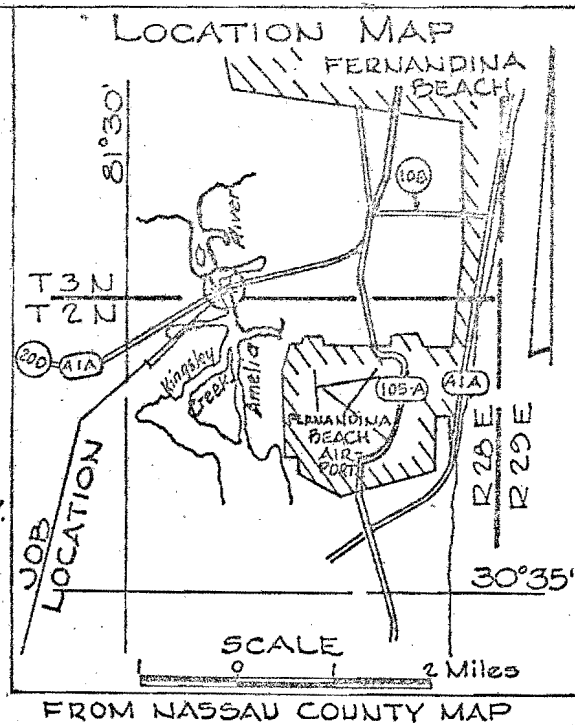
All material used will be contained on upland D.O.T. right of way within project limits and will be subject to whatever controls necessary to ensure the reentry into state waters and wet lands will not occur.

Any excess or unsuitable material not necessary for Roadway construction to be deposited, by the contractor, in areas provided by him, on the upland area.

Elevations shown are in feet above or below mean Sea level.

-  Area shoreward of M.H.W. Line 349,436 C.Y.
-  Area waterward of M.H.W. Line 62,264 C.Y.

18.77 Acres Shoreward
3.85 Acres Waterward



SEC. 74060-2507 Sheet 1 of 8

Proposed FILL
In Amelia River

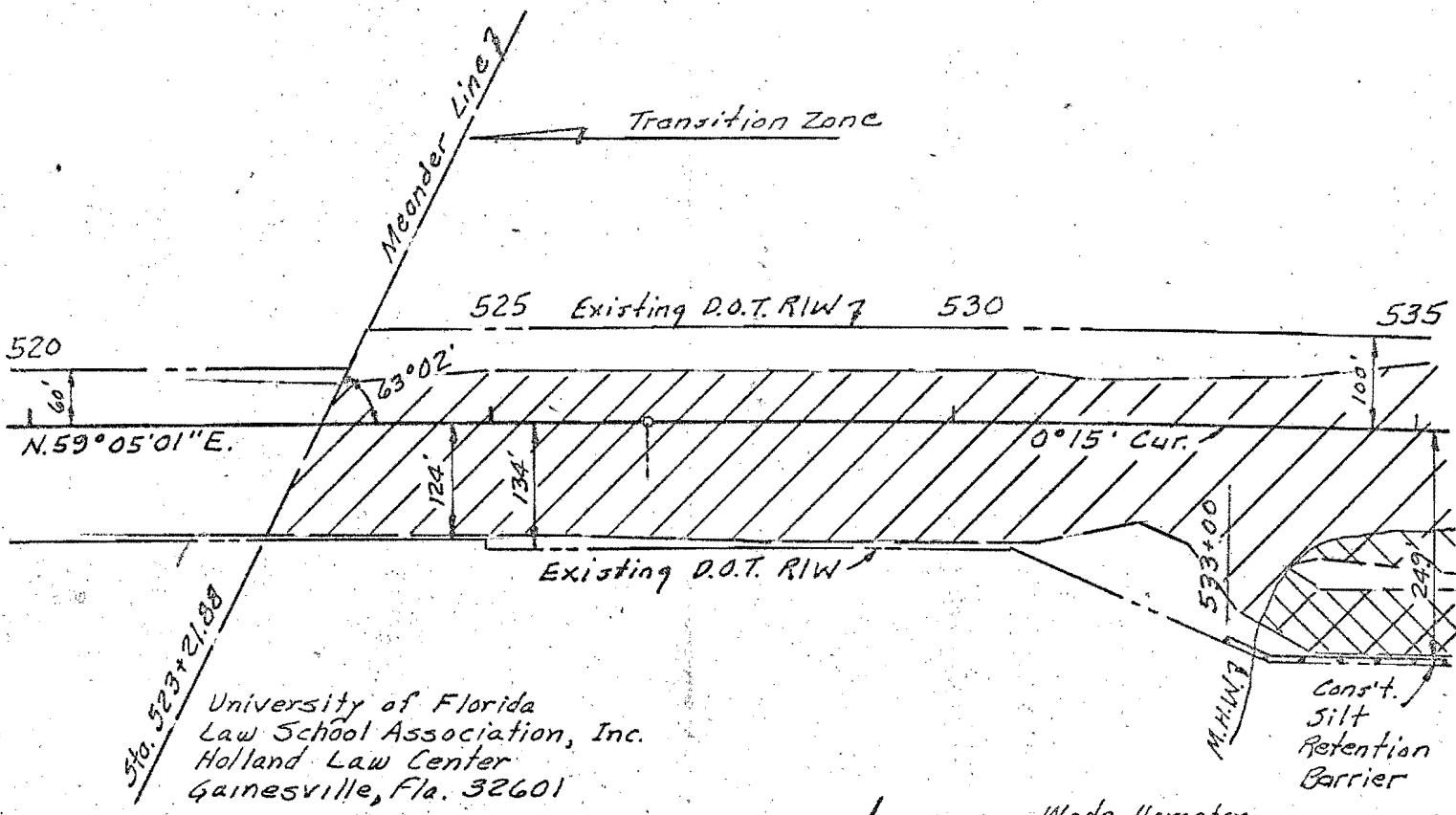
Section 37, 46, 5 Twp. 2 N. Rge. 28 E.
County NASSAU State FLORIDA

Application By Dept. of Trans.
Feb. 10, 1976 Date

SURVEYOR'S CERTIFICATE

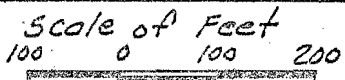
I hereby certify that the information shown hereon is true and correct to the best of my knowledge and belief.

Signed: [Signature]
FLORIDA REG. SURVEYOR NO. 1594

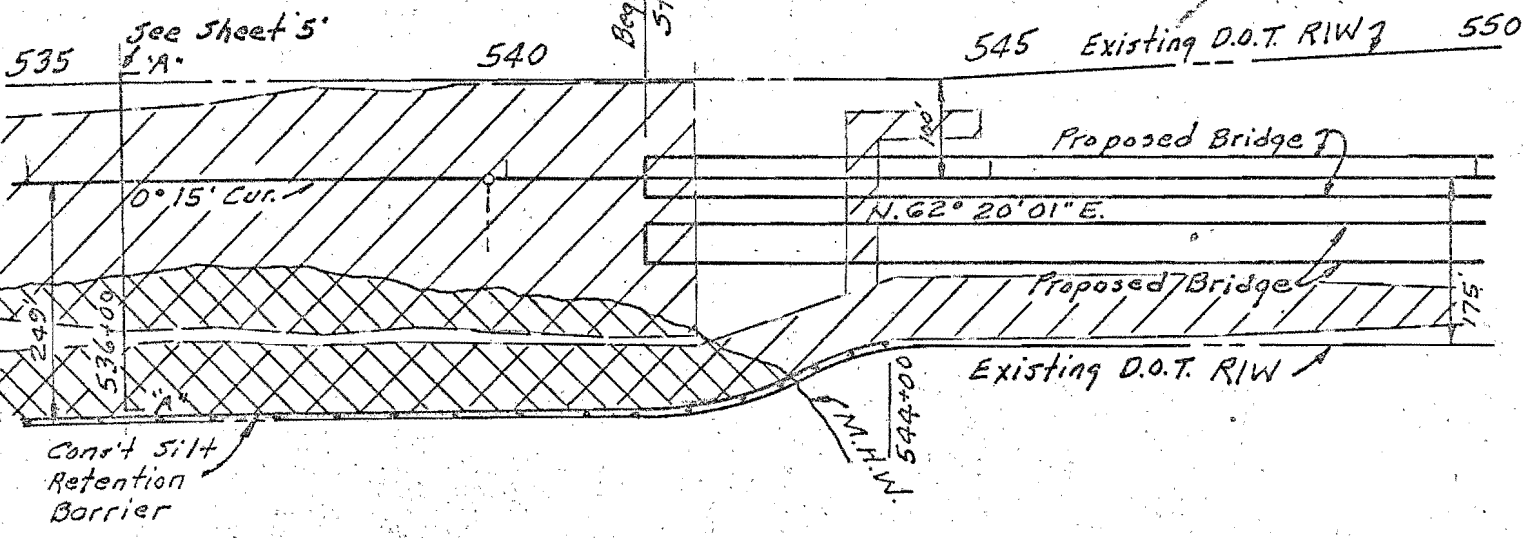


University of Florida
 Law School Association, Inc.
 Holland Law Center
 Gainesville, Fla. 32601

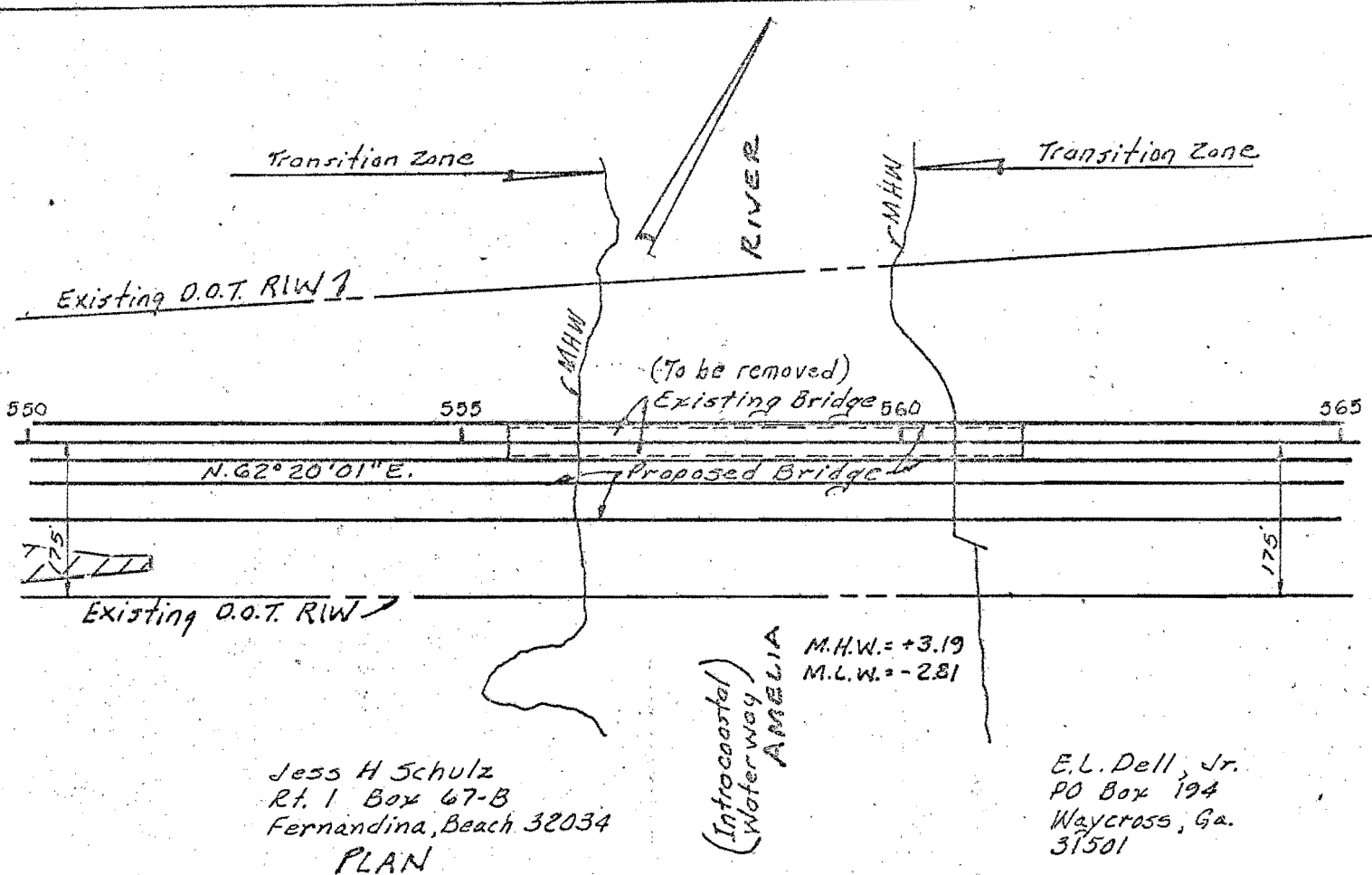
Wade Hampton
 Rt. 1 Box 324
 PLAN Yulee, Fla. 32097



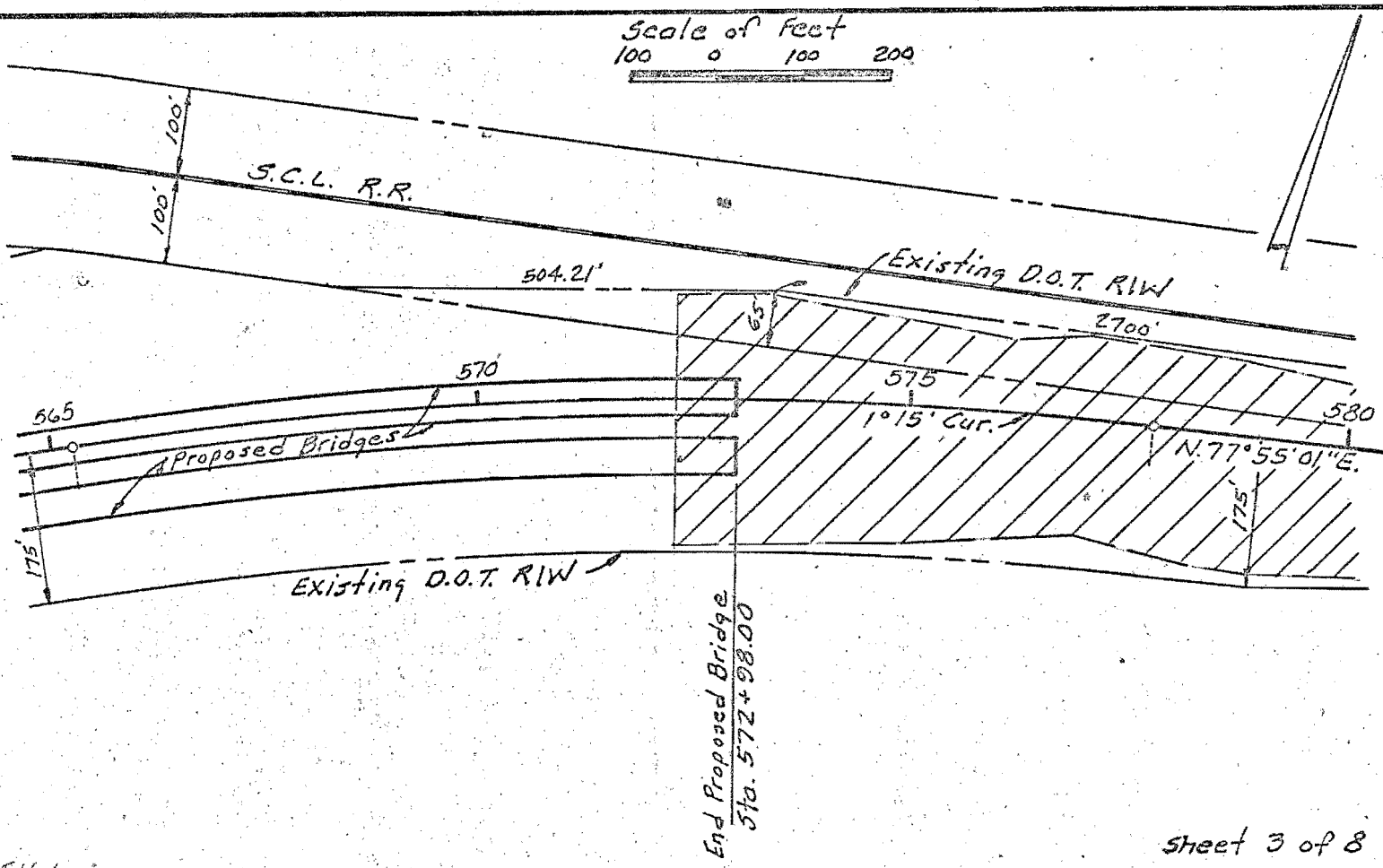
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 M.L.W. = -2.81

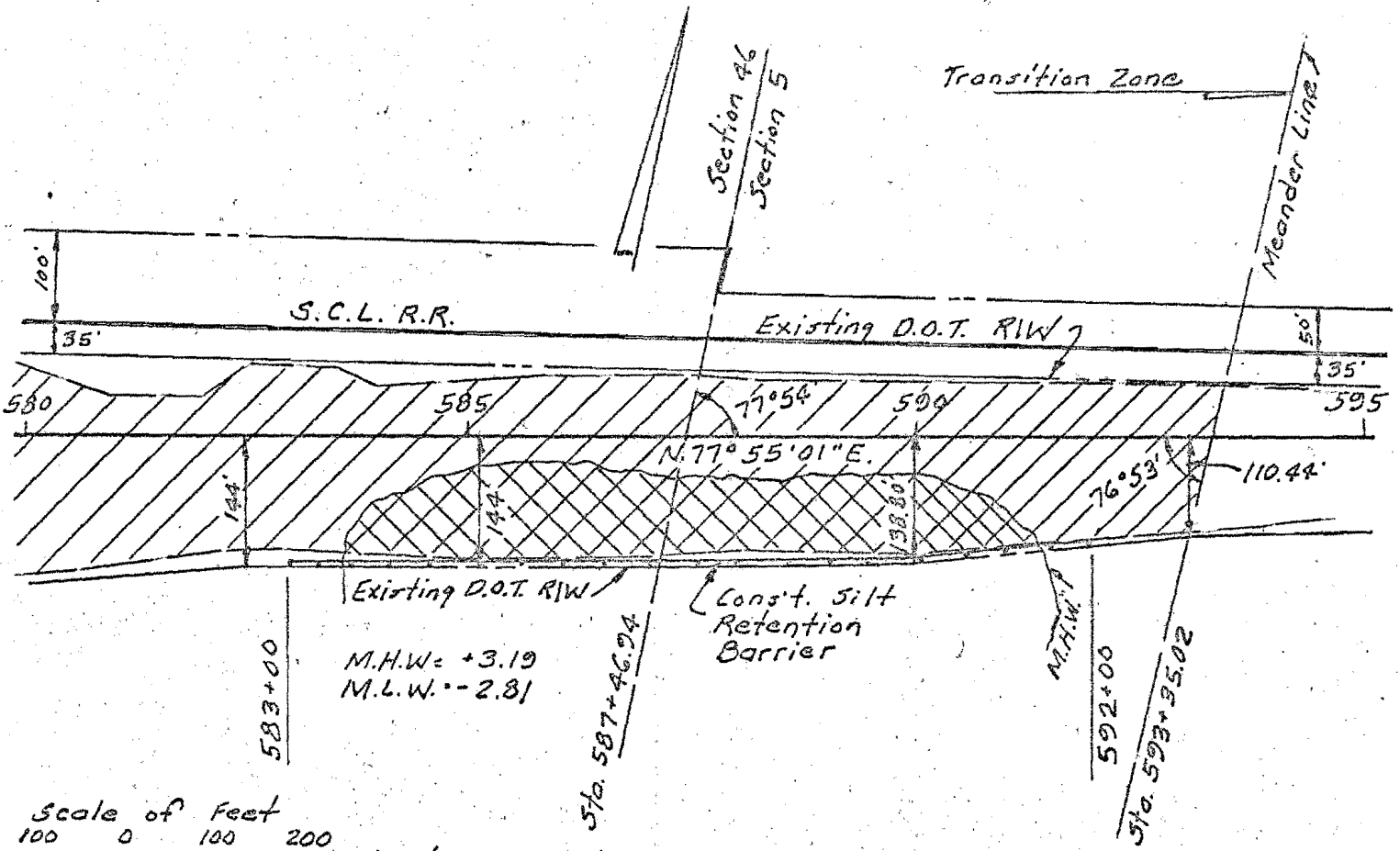


FILL



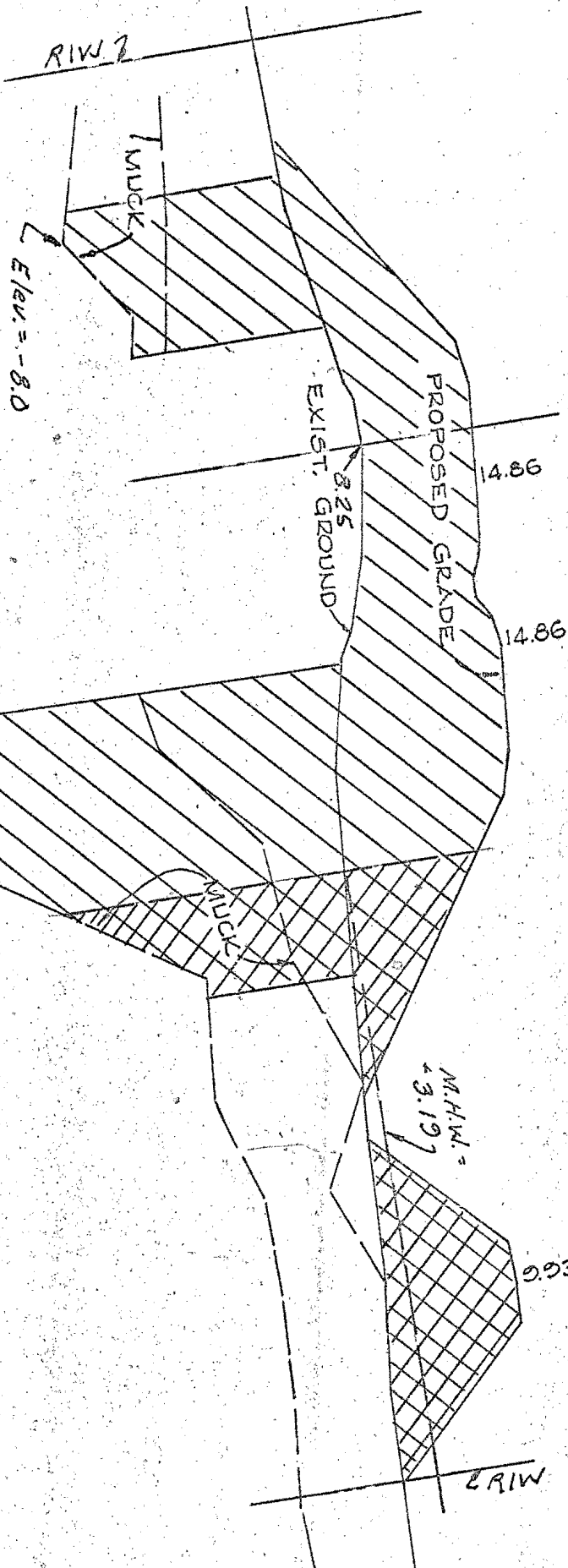
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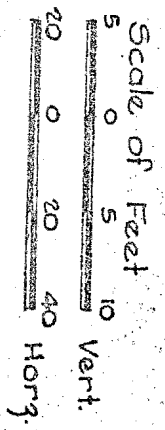


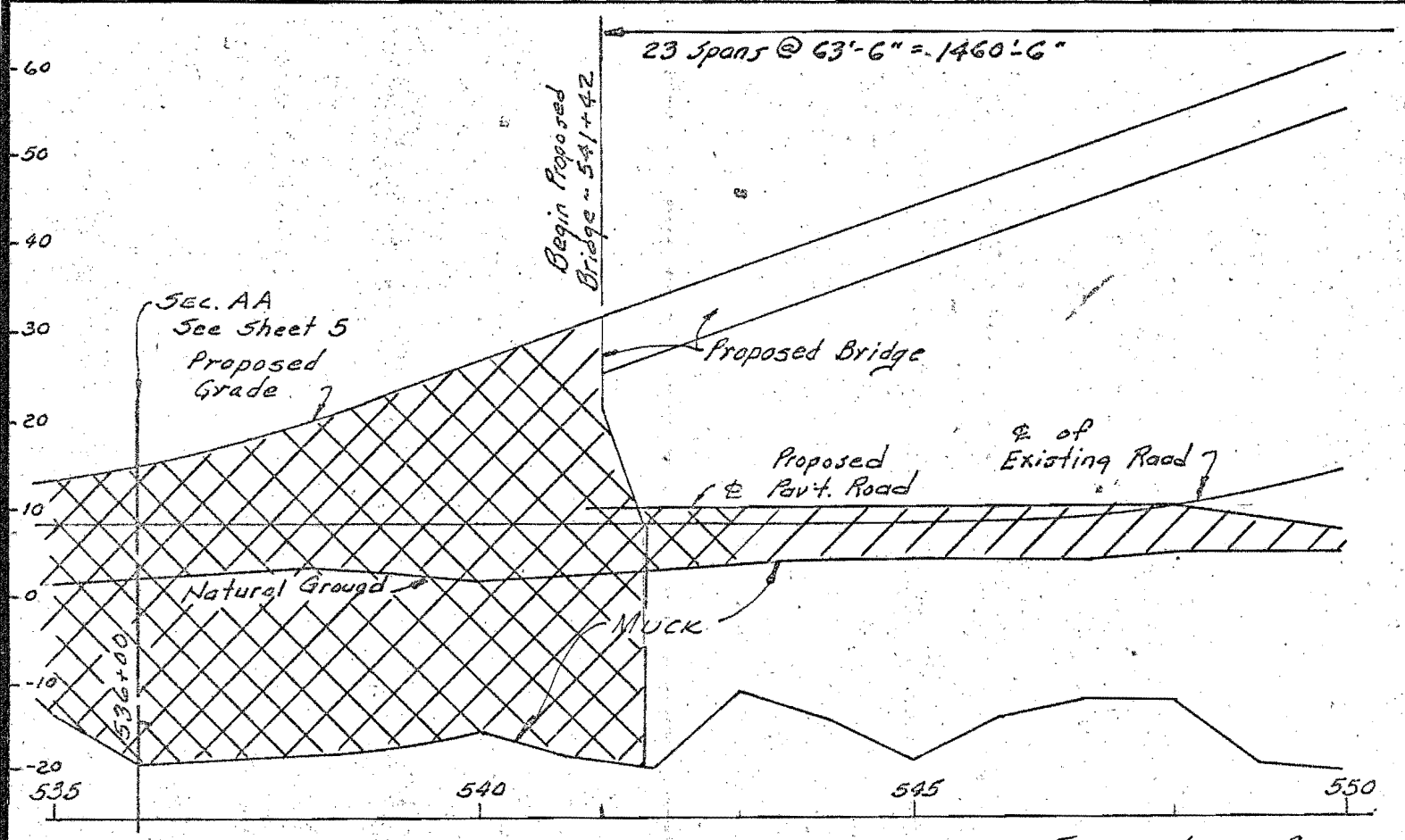
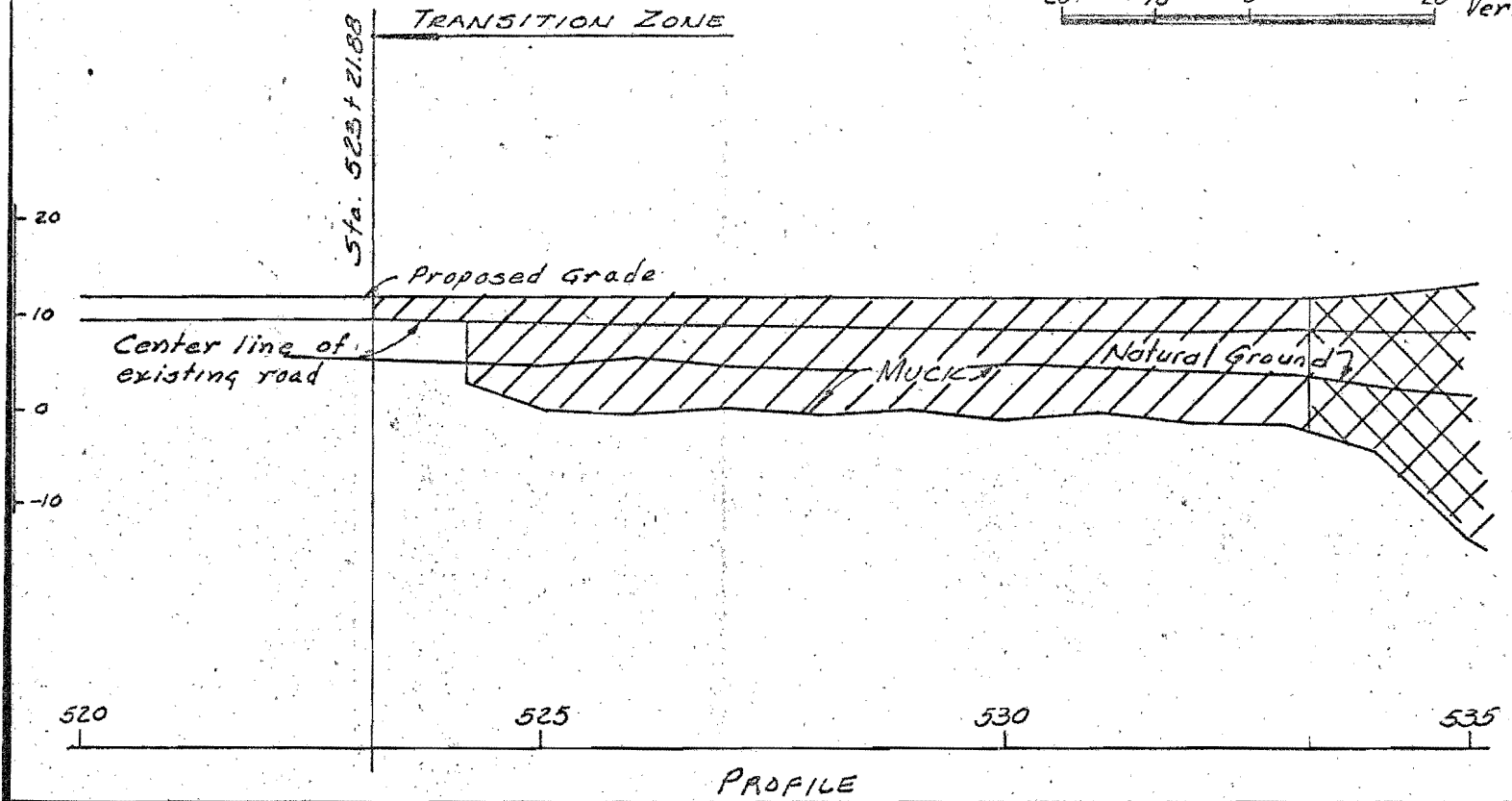
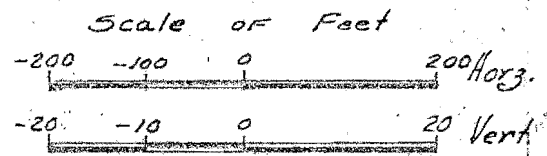
Quail Creek Land Co.
 901 Blackstone Bld.
 Jacksonville, Fla.

PLAN

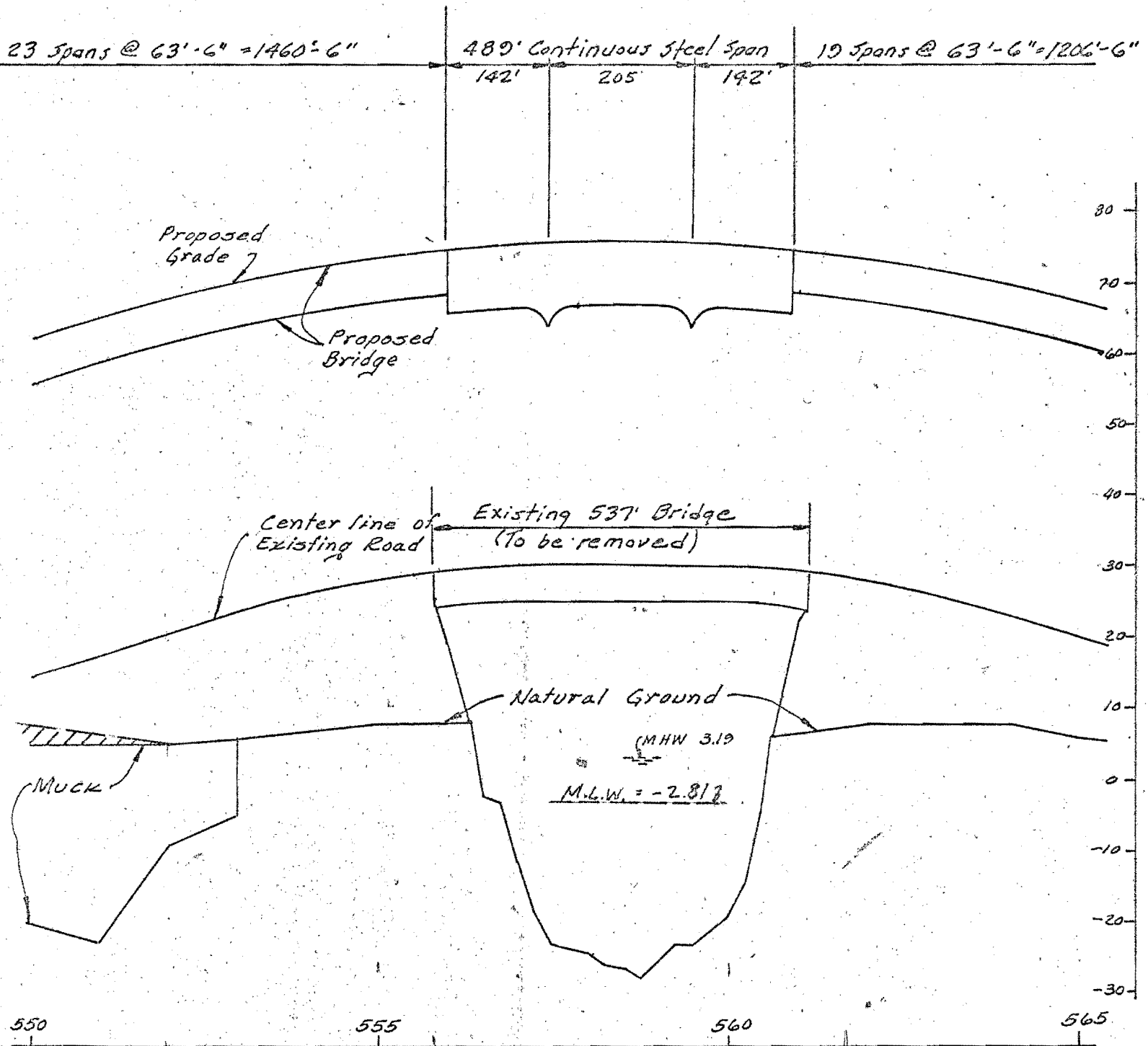


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CROSS SECTION

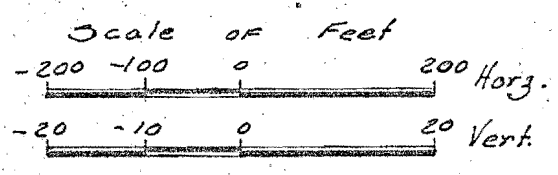




Minimum Vertical Clearances:
 Above M.H.W. = 65.19'
 Above M.L.W. = 71.19'

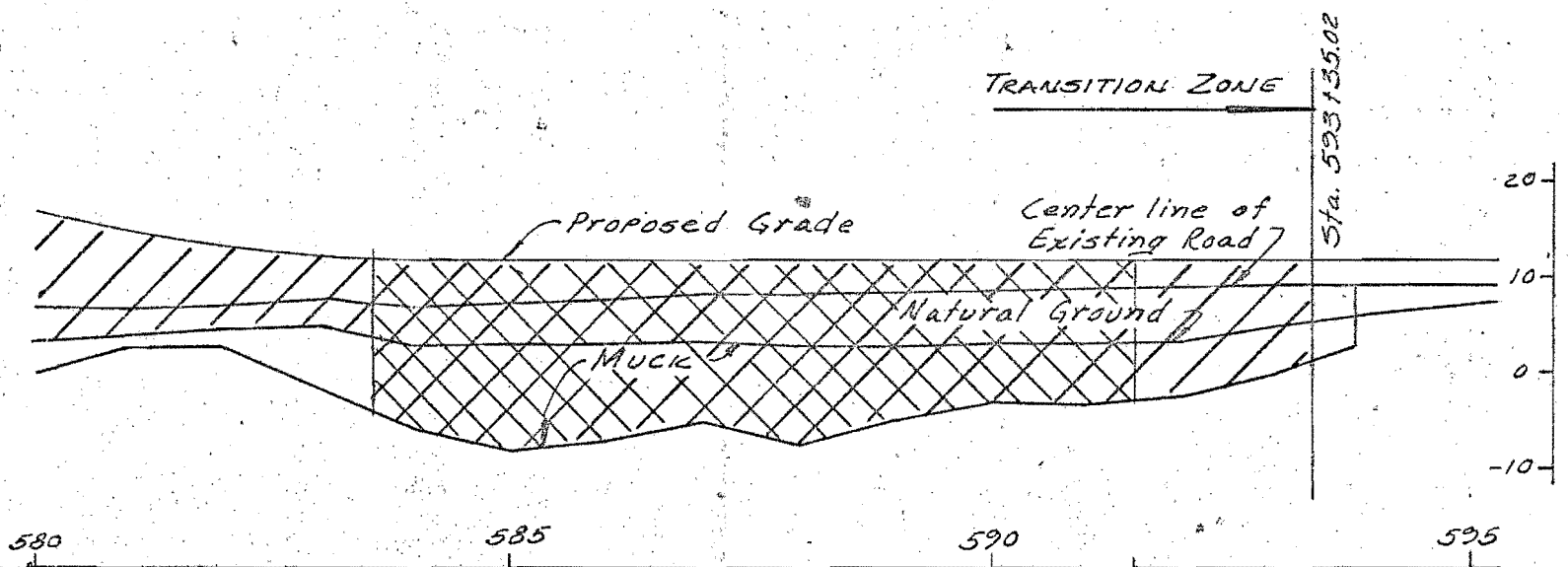
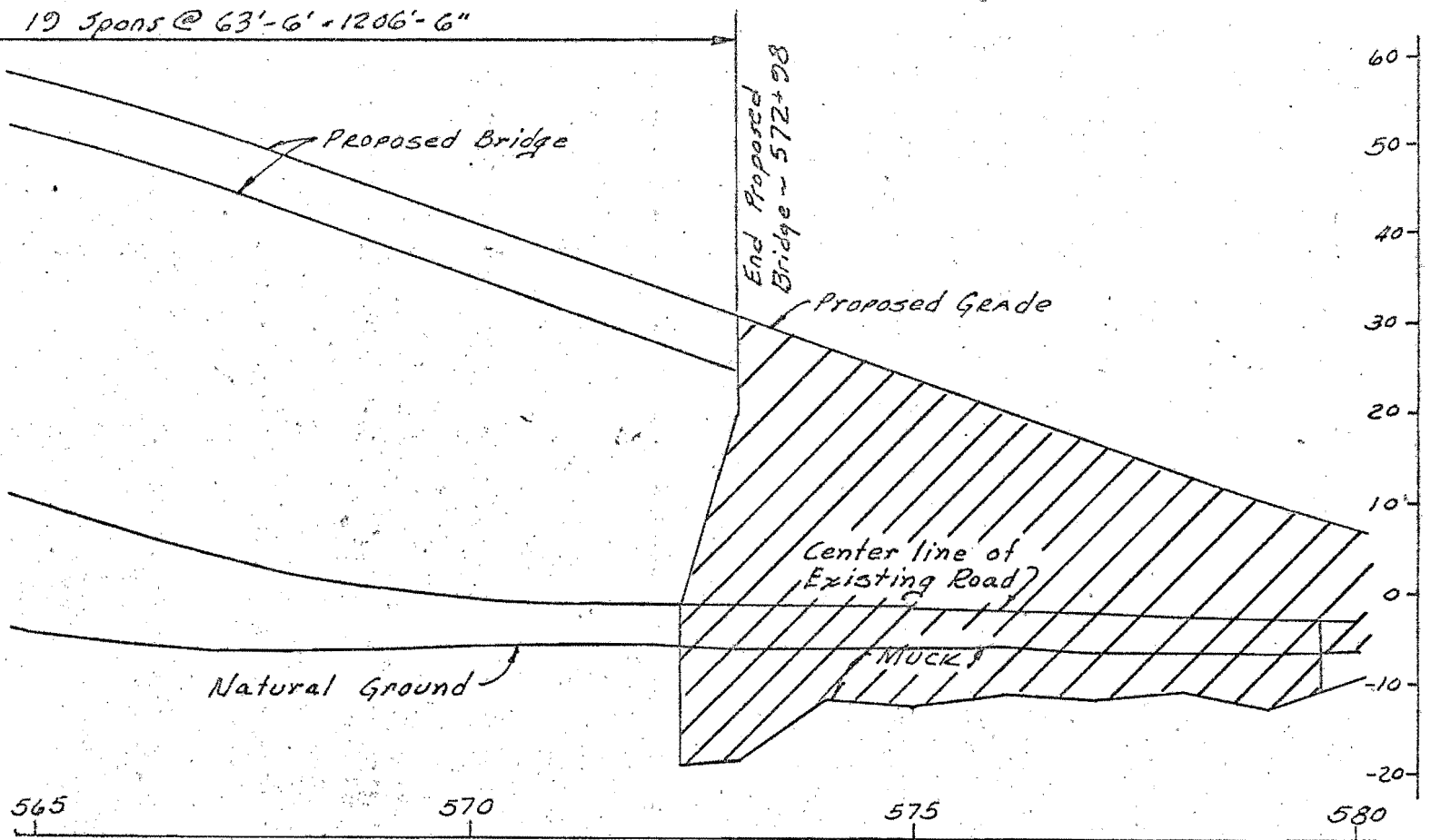


PROFILE

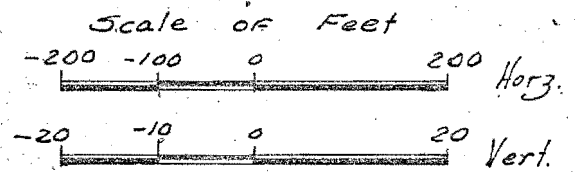


SHEET 7 OF 8

19 Spans @ 63'-6" = 1206'-6"



PROFILE



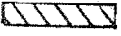
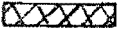
SHEET 8 OF 8

NOTE:

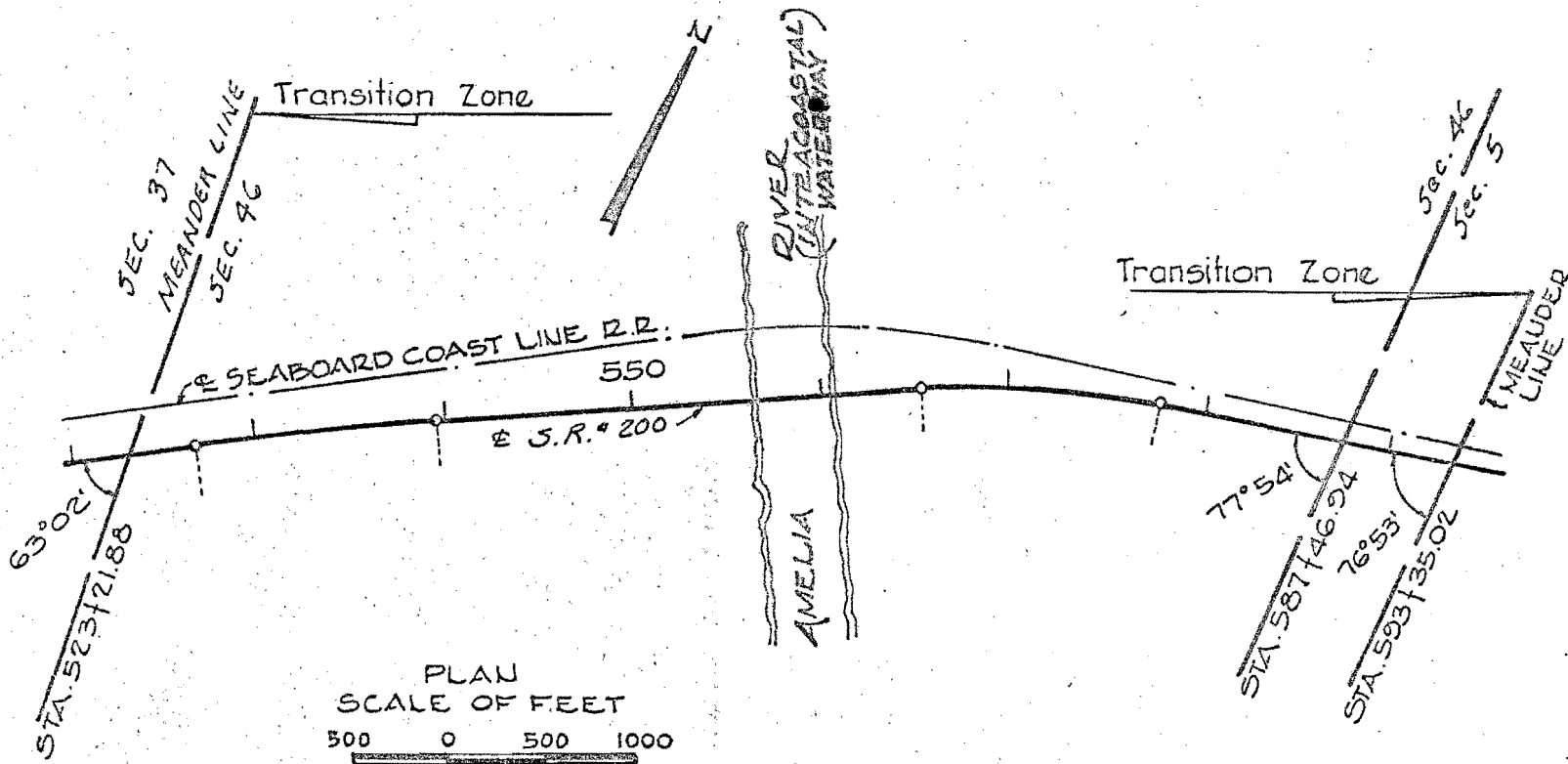
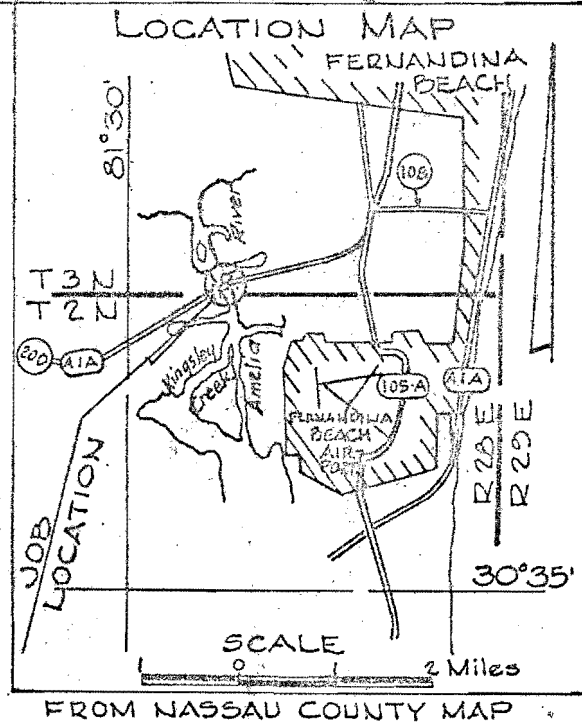
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Any excess or unsuitable material not necessary for roadway construction to be deposited, by the contractor, in areas provided by him, on the upland area.

Elevations shown are in feet above or below mean Sea level.

-  Area shoreward of M.H.W. Line 184,347 C.Y.
-  Area waterward of M.H.W. Line 20,729 C.Y.

16.05 Acres Shoreward
1.87 Acres Waterward



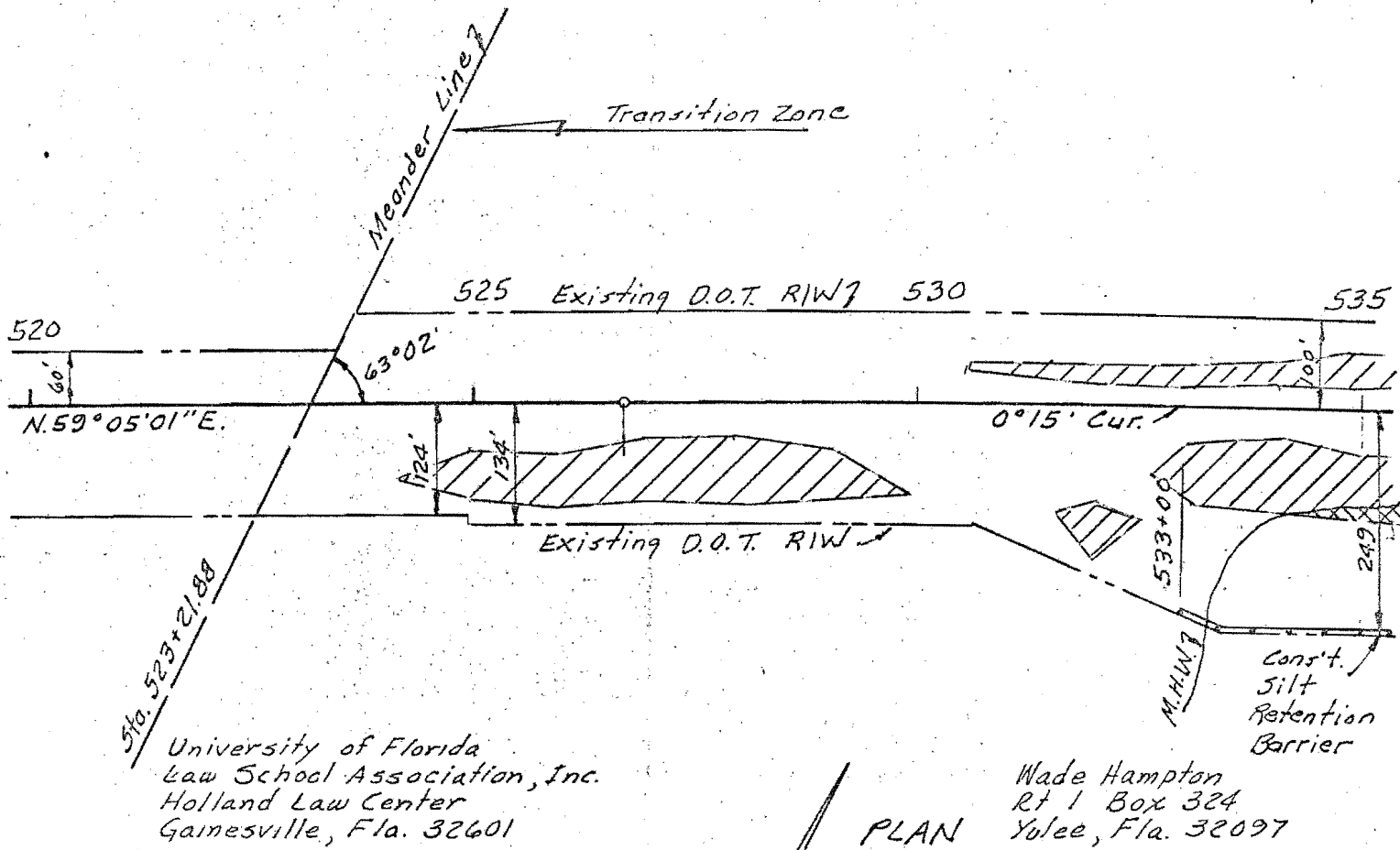
SURVEYOR'S CERTIFICATE

I hereby certify that the information shown hereon is true and correct to the best of my knowledge and belief.

Signed [Signature]
 FLORIDA REG. SURVEYOR NO. 1594

SEC. 74060-2507 Sheet 1 of 8

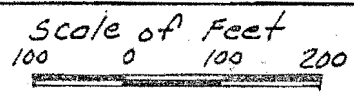
Proposed DREDGE
 In Amelia River
 Section 37, 46, 5 Twp. 2 N. Rge. 28 E.
 County NASSAU State FLORIDA
 Application By Dept. of Trans.
Feb. 10, 1976 Date



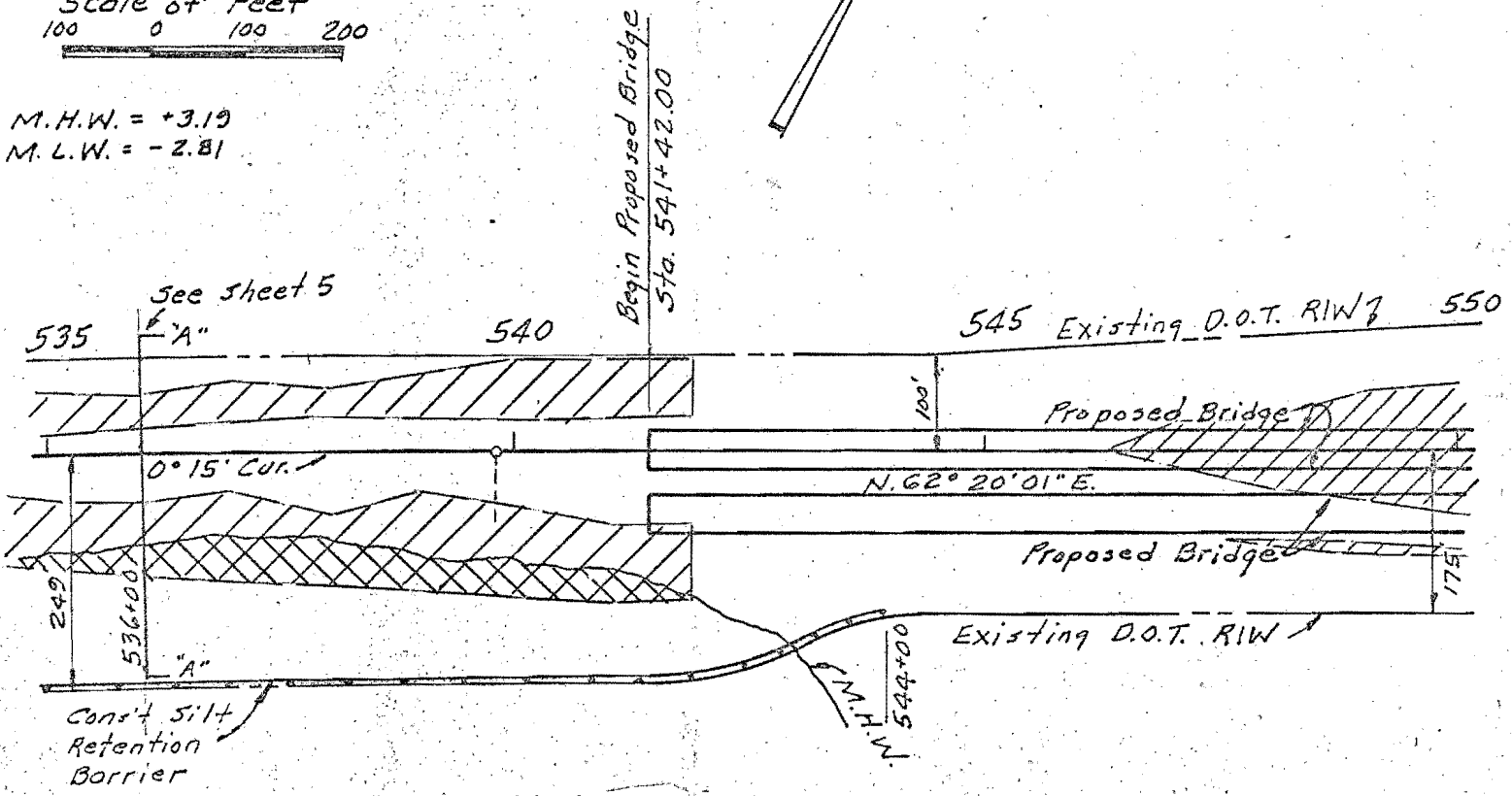
University of Florida
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PLAN

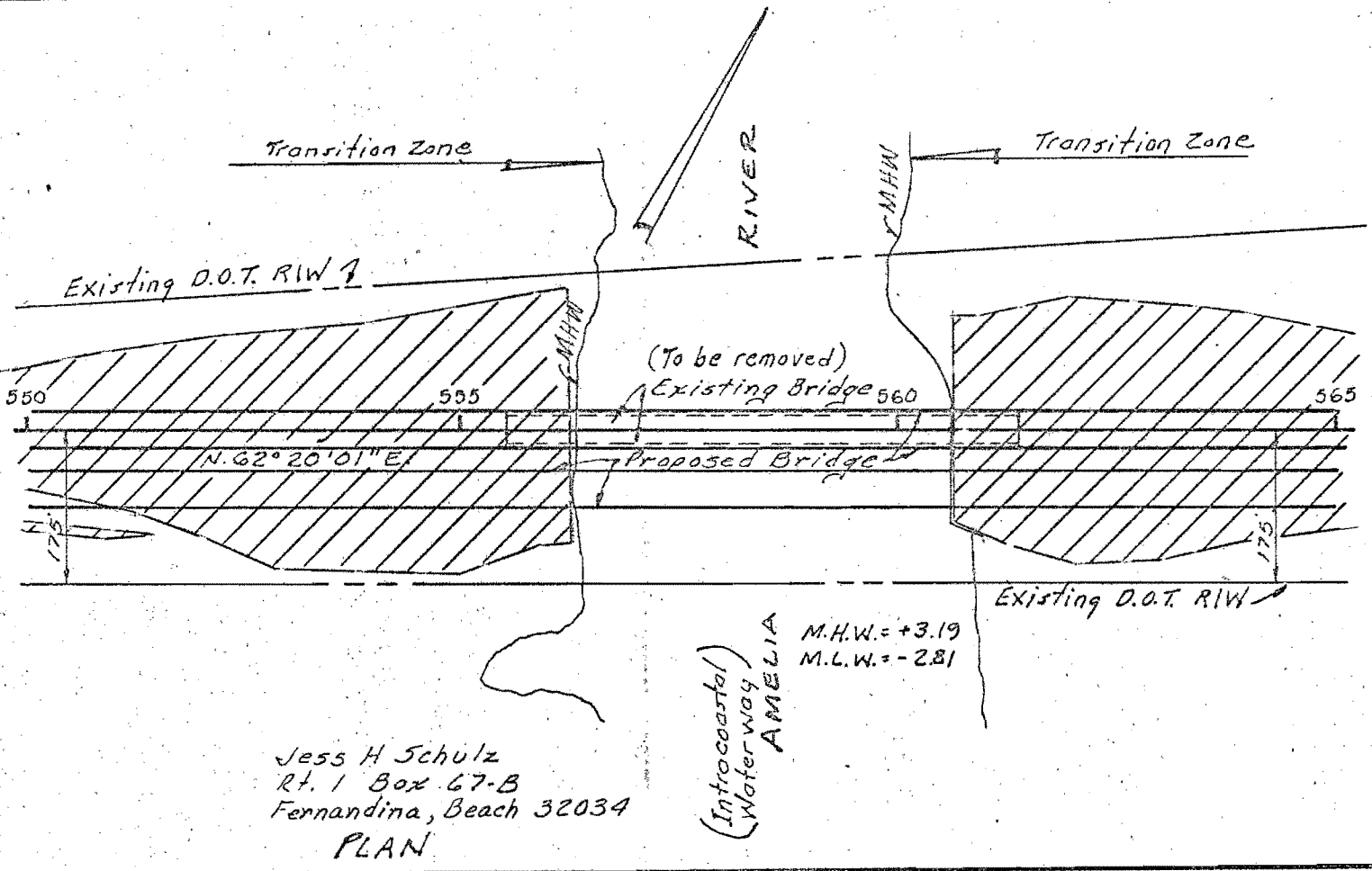


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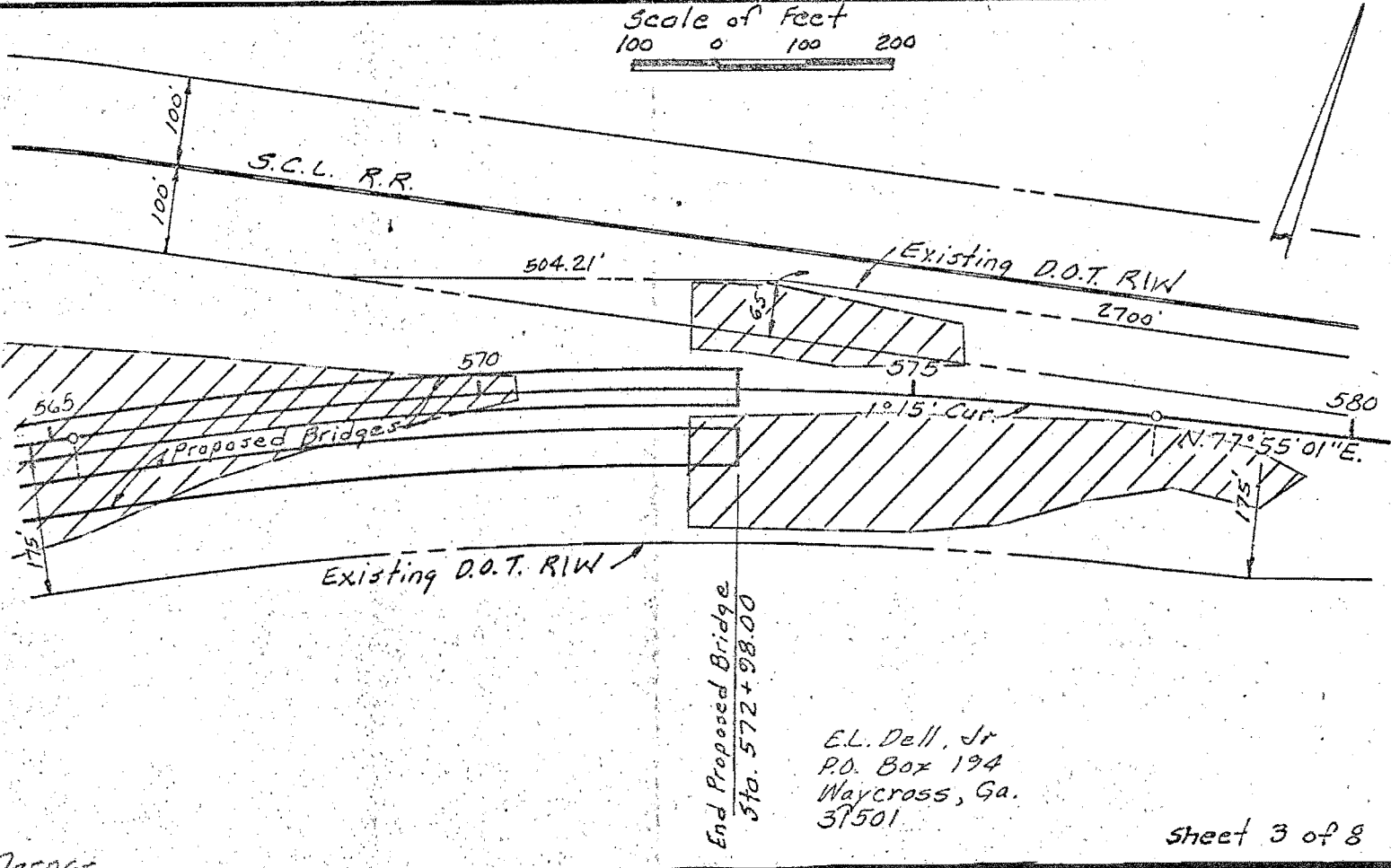


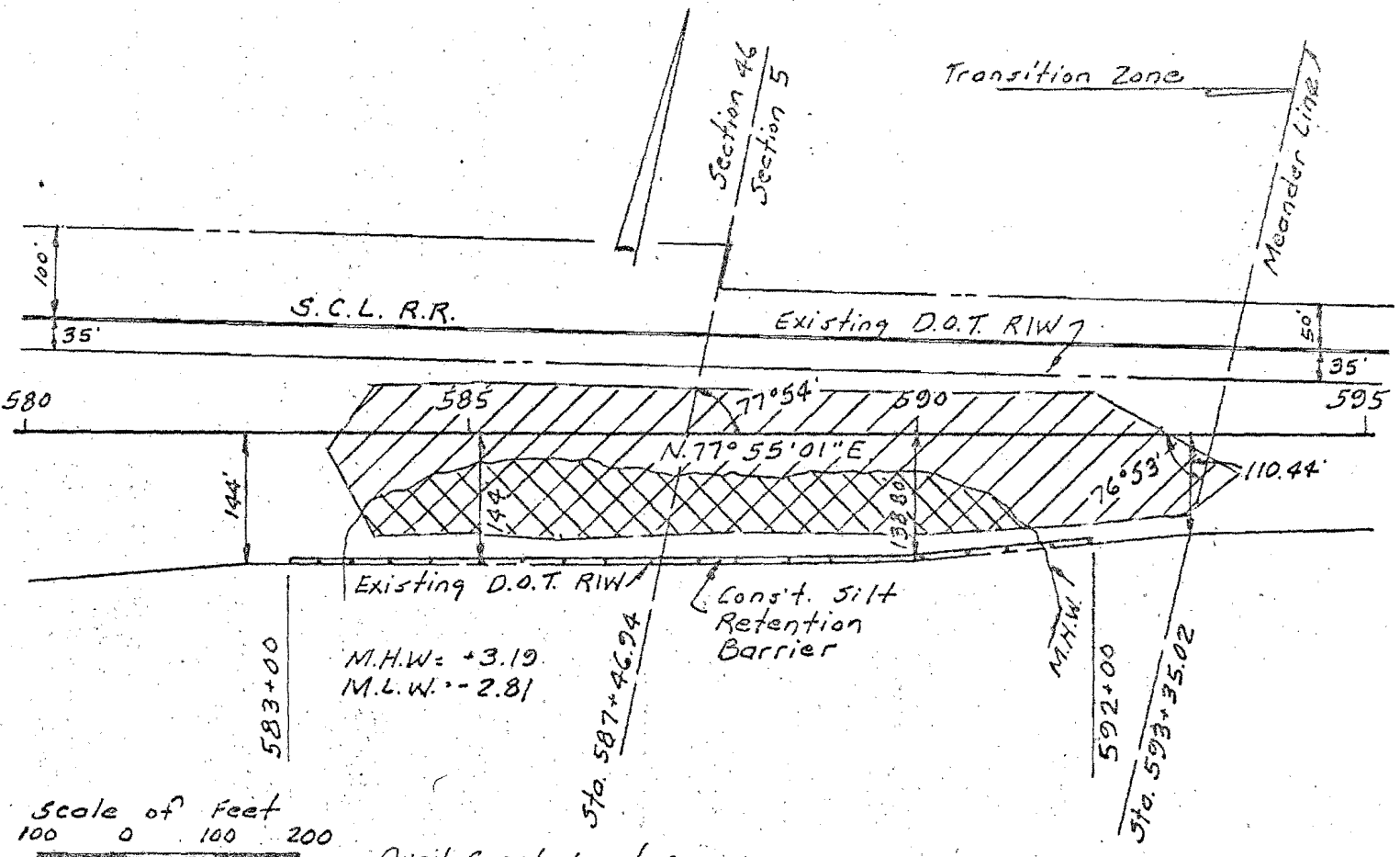
DREDGE

Sheet 2 of 8



Scale of Feet
100 0 100 200





Scale of Feet
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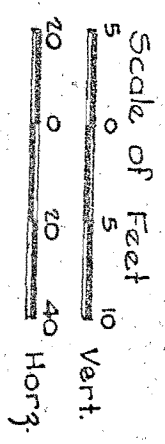
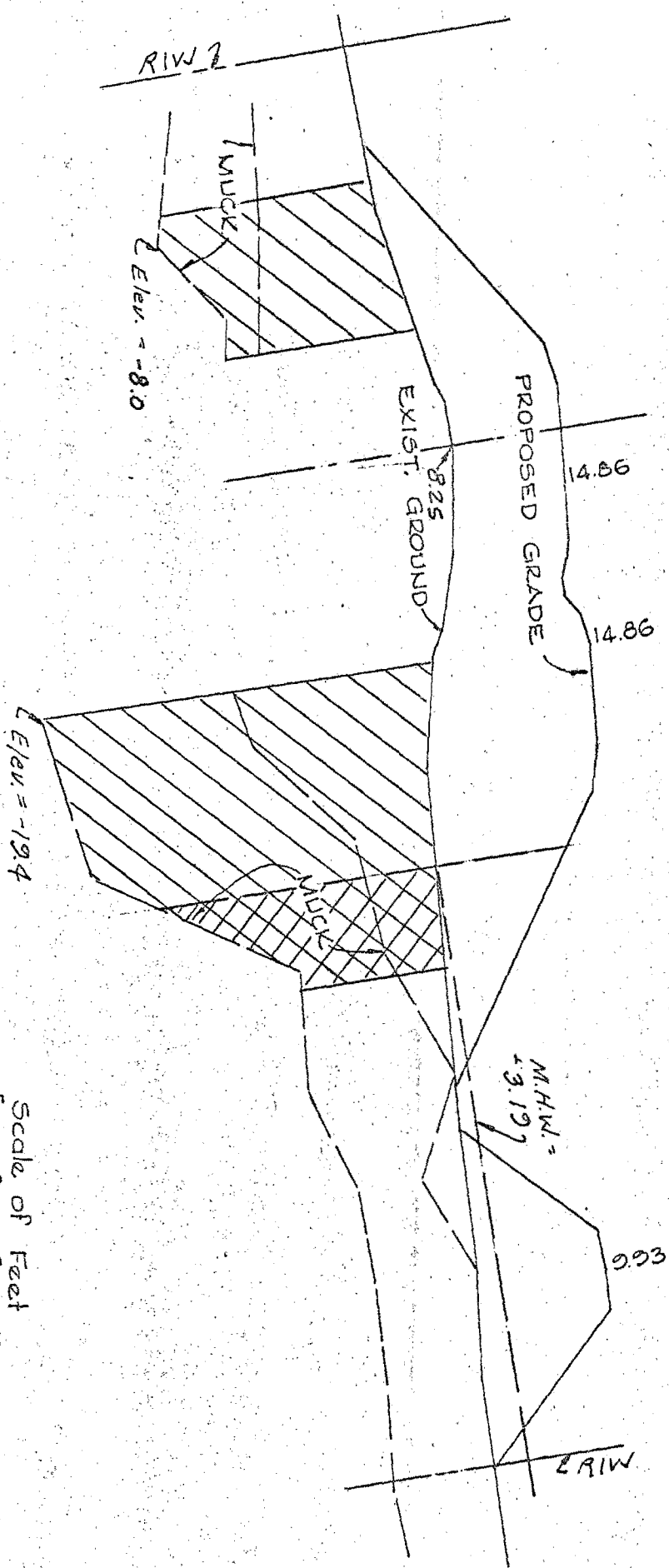
Quail Creek Land Co.
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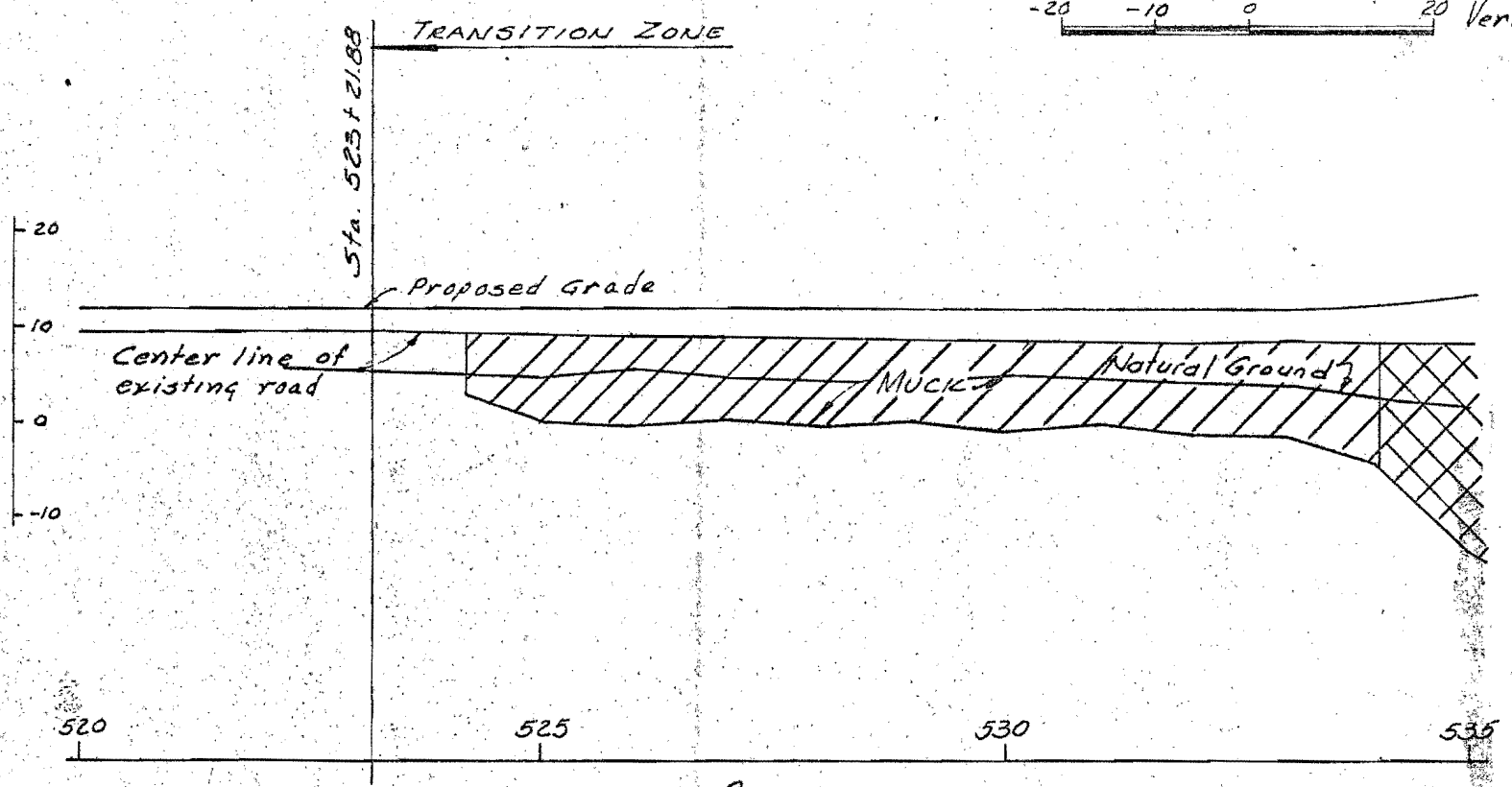
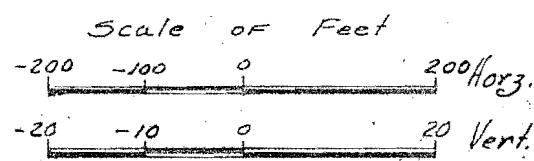
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SECTION "A-A"

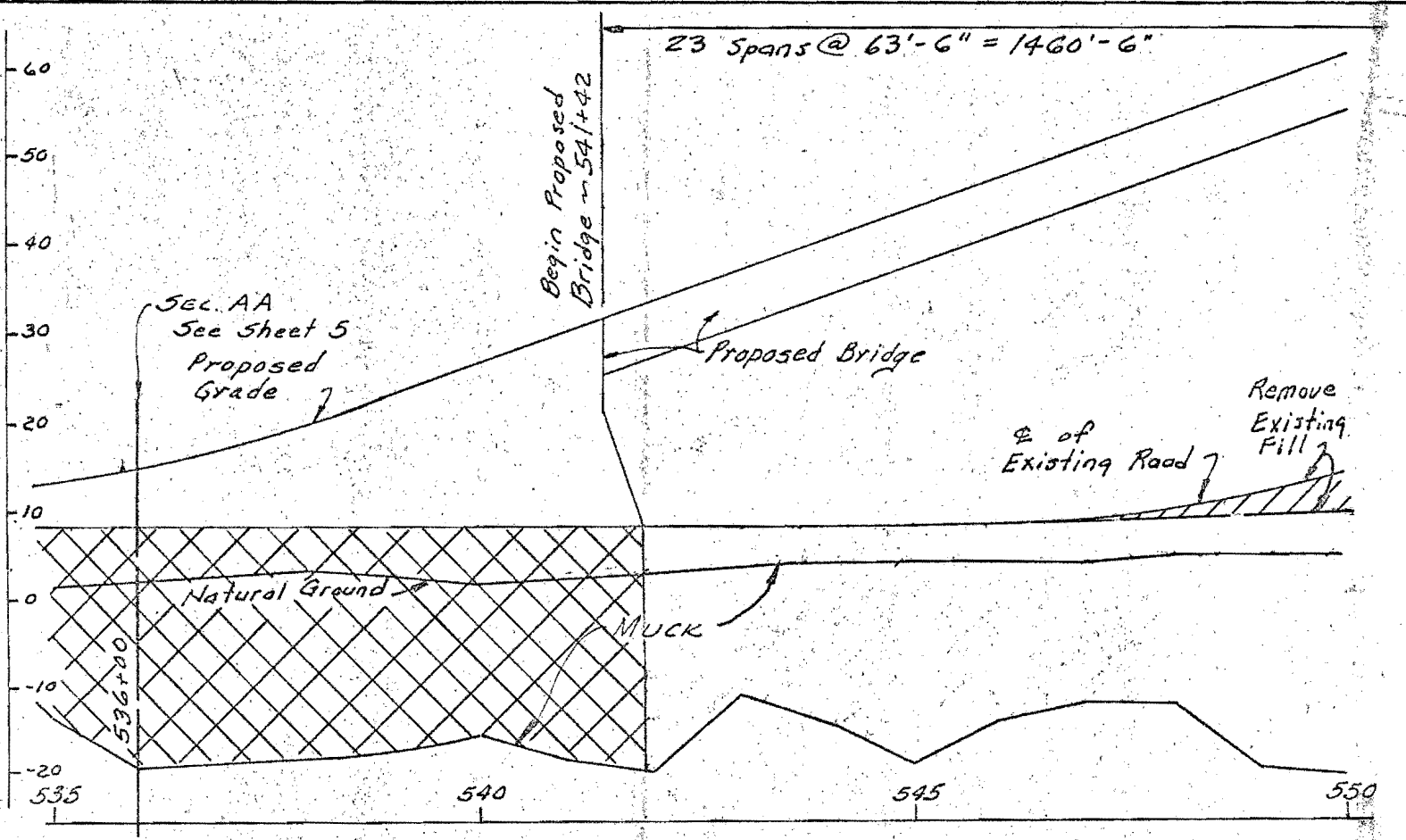
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EDGE

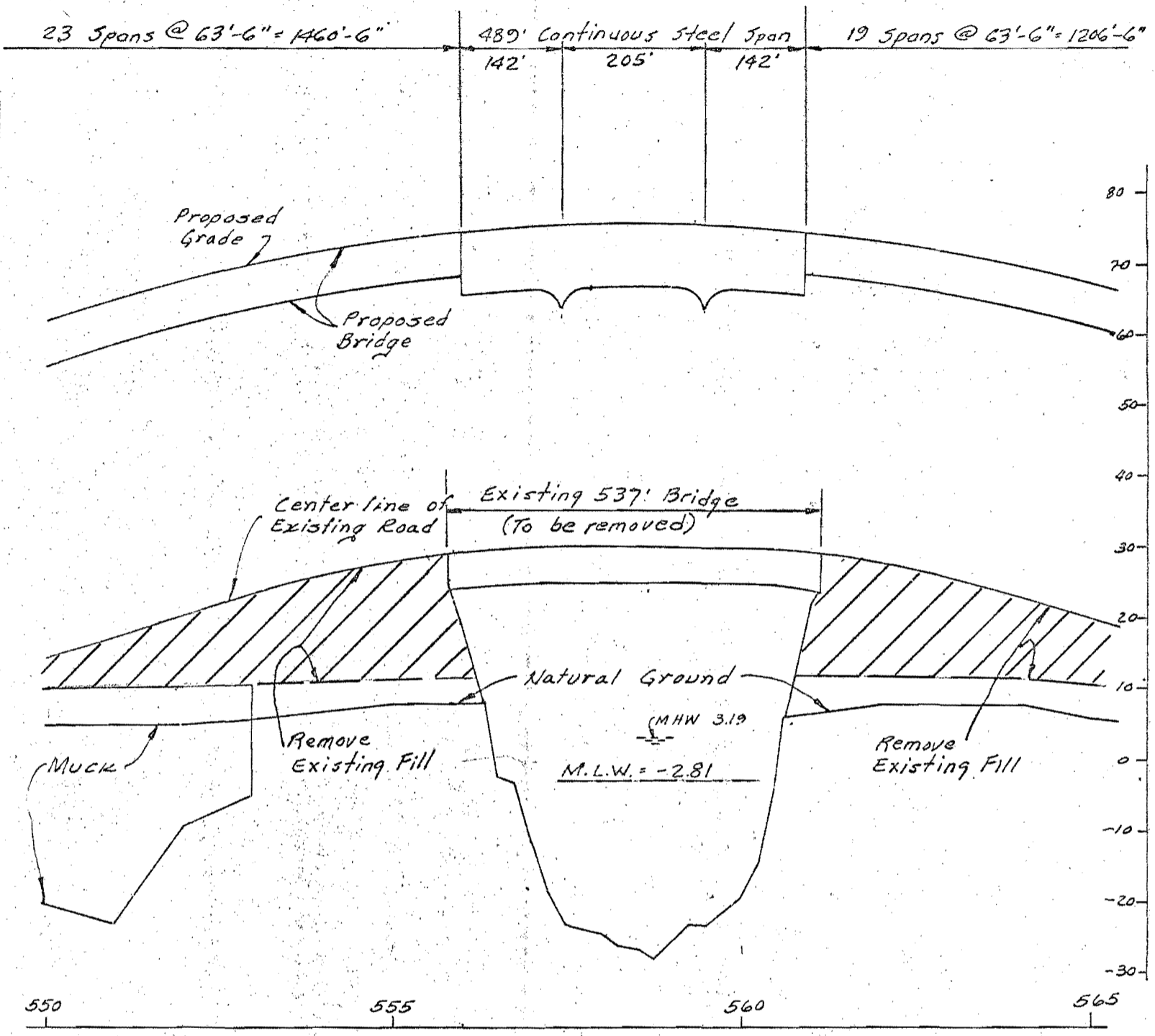


PROFILE

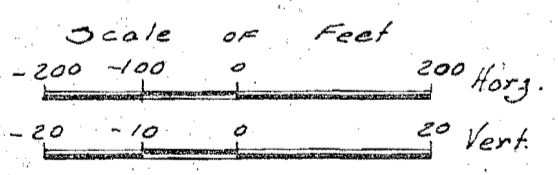


DRENCH

Minimum Vertical Clearances:
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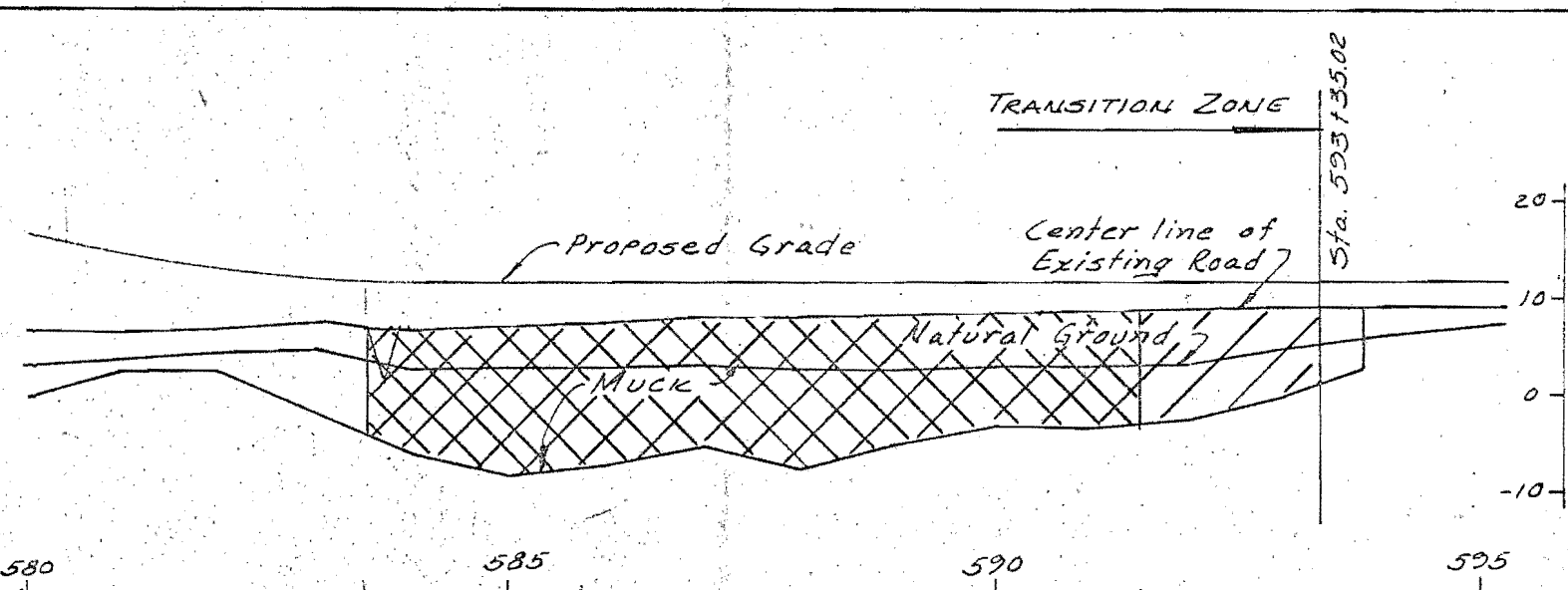
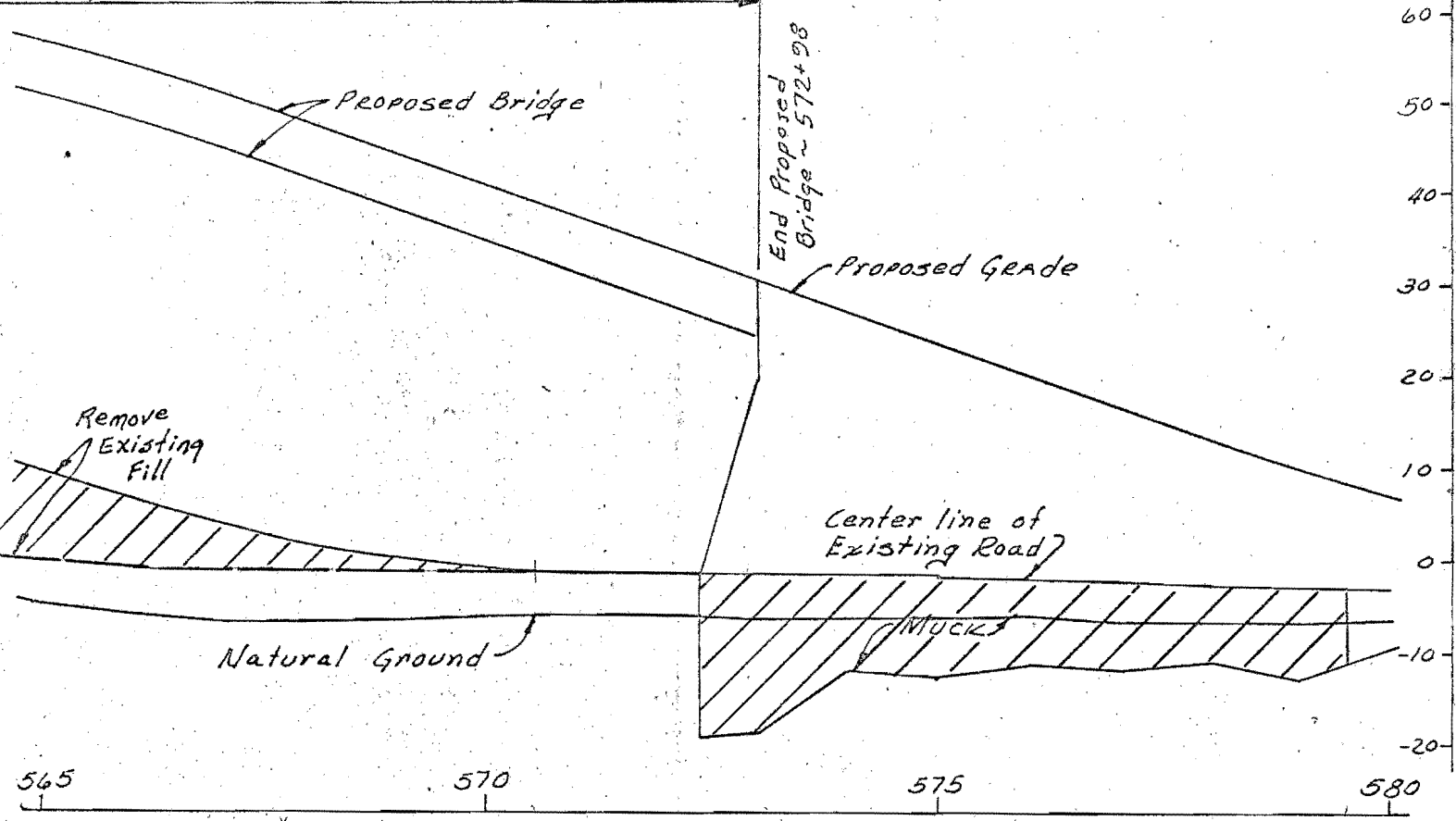
PROFILE



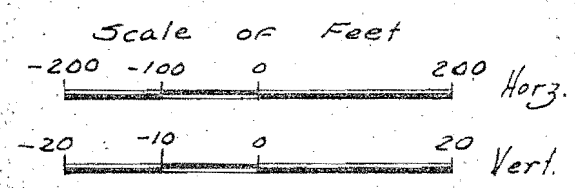
SHEET 7 OF 8

DREDGE

19 Spans @ 63'-6" = 1206'-6"



PROFILE



SHEET 8 OF 8



REUBIN O'D. ASKEW
GOVERNOR

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

ST. JOHNS RIVER SUBDISTRICT
GAINESVILLE BRANCH OFFICE
4000 S.W. 35TH TERRACE, SUITE B
GAINESVILLE, FLORIDA 32608

JOSEPH W. LANDERS, JR.
SECRETARY

March 15, 1976

Mr. C. L. Irwin
District Environmental Specialist
Department of Transportation
Post Office Box 1089
Lake City, Florida 32055

Dear Mr. Irwin:

State Project No. 74060-1507

Enclosed is a copy of Jerry Kelly's biological report as requested on February 20, 1976.

If I can be of further assistance, please contact me.

Sincerely,

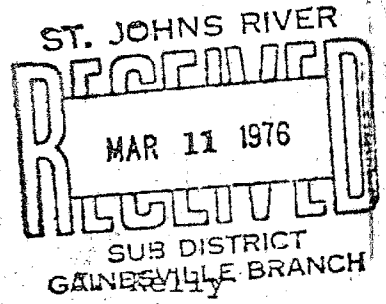
A handwritten signature in cursive script, appearing to read "David B. Scott".

David B. Scott
Section Leader

DBS/ph
Attachment

DEPARTMENT OF ENVIRONMENTAL REGULATION

PERMIT APPLICATION APPRAISAL



A. On-site inspection: Yes No

Date of inspection: 2-27-76 By: D. Bickner

Permit Application No. _____ Dated _____

If revised, date of revision: _____

Applicant's Name and Address:

Department of Transportation
P. O. Box 1089
Lake City, FL 32055

Location of work: Section 37,46,5 Township 2N Range 28E
County Nassau Geographic location,
local references, etc. Amelia R. (ICW)

Water classification of project area III

Water classification of adjacent waters III

Purpose of work: Replace bridge

Water dependent: Yes No

- 1. Description of proposed project and construction techniques. (include quantification of amount to which project extends into wetlands and/or waterward of the apparent mean high water line).

Applicant proposes to replace an existing 2 lane bridge with a divided 4 lane bridge. About 184,347 cu yds. of muck landward of the MHW line and 20,729 cu yds. of muck waterward of the MHW line will be dredged. The amounts of fill put in will be 349,436 cu. yds. landward of the MHW line and 62,264 cu. yds. waterward of it. Muck will be disposed on uplands, and turbidity curtains will be used. Areas of dredging and filling extend up to a 300 ft. width along the path of the bridge.

2. Biophysical features of general area (include comments concerning extent of development of adjoining properties).

This area is predominantly Juncus marsh, with a fringe of Spartina near the open river water. This portion of the Amelia River system (channel & wetlands) is the narrowest part of the entire river, measuring about 1 1/4 mile wide. There is a commercial marina/boat repair facility on one tributary a bit north of the present bridge. There is also a small fish house just to the north of the bridge, also a railroad bridge parallel to and about 200 ft. north of the preexisting highway bridge. There are no other developments in the area. There were few signs of commercial fishing activities (2 boats, a few crab traps) in this area of the river.

3. Biophysical features of specific work site and spoil site when appropriate (include identification of bottom types).

Portions of the work site are the previously filled areas for the present bridge. The rest of the area is a dense Juncus marsh, with portions below the zone of high water vegetated by Spartina. This zone involves only a thin fringe along the river channel, but larger pockets in other areas back from the river. The soil in the vegetated zones is a mixture of sand and mud. As site inspection was made at a period of very low tide, sampling for fauna in the wetlands was not performed.

The open river will be crossed by a single span, so no pilings will be placed there. Benthic sampling in the river revealed few organisms, mostly mud snails (Nassa sp.), and amphipods, and polychaete worms (Nereidae and Spionidae). These organisms were found in the sand-mud bottom areas near the banks. No organisms were found in the mid-channel bottom, which consisted of mud and shell material.

4. Impact of project on biological resources. Address long-term impact as well as immediate impact. All aspects of proposal should be assessed in these terms.

This project will destroy 1.8 acres of Spartina marsh and about 23 acres of Juncus marsh. This area is between 2 proposed aquatic preserves, but not adjacent to either. Due to the presence of the existing roadbed, there will be no additional modification of flow patterns. The bridge structures will not be in the river, so there should be no long-term adverse impact there. The only long term impact will be the removal of the marshland from the vegetative ecosystem.

5. Recommendation, with justification, concerning application. Include references to statute, administrative rule, etc.

I recommend approval.

6. Suggestions concerning modifications to reduce or minimize impact where appropriate.

1. Turbidity control and upland disposal of spoil, as included in the application
2. Revegetation of banks and leveled areas

B. Construction and Operation Consequences

1. Project construction may result in increased rates of eutrophication in nearby bodies of waters.
2. Project construction may reduce the capacity of receiving bodies of water for shellfish propagation or for recreational or commercial harvesting of shellfish.
3. Project construction may reduce the capability of habitat to support a well-balanced fish and wildlife population.
4. Project construction may interfere with the ability of habitat to support successful fish and wildlife propagation.
5. Project construction may impair the management or feasibility of management of fish and wildlife resources.
6. Project construction may result in degradation of local water quality by reducing or eliminating the capacity of wetlands vegetation for filtration and/or for nutrient stabilization or transformation.
7. Discharged substances attributable to the project may settle to form putrescent or otherwise objectionable sludge deposits.
8. Floating debris, oil scum, and other floating materials, attributable to the project, may be in amounts sufficient to be unsightly or deleterious.
9. Materials discharged from the project may be in such amounts to create a nuisance.
10. Discharge substances attributable to the project may be in such concentrations or combinations which may be toxic or harmful to humans, animals, or plant life.
11. Chlorides may exceed 250 mg/l in bodies of freshwater.
12. Chlorides may exceed 250 mg/l in groundwater due to reduced amounts of percolation because of increased surface runoff rates.
13. Chlorides will be increased more than 10% above normal in waters of a brackish or saline nature.
14. Copper residues may exceed 0.5 mg/l.
15. Zinc residues may exceed 1.0 mg/l.
16. Chromium residues may exceed 0.50 mg/l hexavalent or 1.0 mg/l total chromium in effluent discharge or may exceed 0.05 mg/l after reasonable mixing in the receiving waters.
17. Phenolic-type compounds calculated or reported as phenol may exceed 0.001 mg/l.
18. Lead may exceed 0.05 mg/l.
19. Iron may exceed 0.30 mg/l.
20. Arsenic may exceed 0.05 mg/l.

21. Oils and greases may exceed 15 mg/l or visible oil, defined as iridescence, may be present to cause taste and odors, or may interfere with other beneficial uses.
22. Turbidity may exceed 50 JTU as related to standard candle turbidimeter above background.
23. Dissolved oxygen may be artificially depressed below the values of 5 ppm.
24. Biological oxygen demand may exceed values which would cause dissolved oxygen to be depressed below 5 ppm or biological oxygen demand will be great enough to produce nuisance conditions.
25. Dissolved solids may exceed 500 mg/l as a monthly average or exceed 1000 mg/l at any time.
26. Specific conductance may be increased more than 100% above background levels or exceed 500 micromhos/cm for freshwater streams.
27. Cyanide or cyanates may be detectable in receiving bodies of water.
28. The pH receiving waters may be caused to vary more than one unit above or below normal pH of the waters, or:
29. Lower pH value may be less than 6.0.
30. Upper pH value will be more than 8.5.
31. Detergent levels in receiving bodies of water may exceed 0.5 mg/l.
32. Mercury may be detectable in receiving bodies of water.
33. Coliform counts may exceed criteria established under Chapter 17-3, Florida Statutes, for the existing water classification in the project area.

If certification is approved or waived, PL 92-500 requires that effluent limitations be specified as part of the certification.

When applicable, please specify:

1. Monitoring required by the applicant (include frequency)

Turbidity outside of control devices if a problem becomes evident.

2. Effluent limitations (i.e., those limitations established under 17-3 for particular water classifications as well as water quality standards). Include specifics.

Turbidity - 50 JTU above background

Recommendations for water quality control during construction.

Turbidity control devices, upland disposal of spoil

SIGNATURE:

Jerome Kelly

DATE:

March 10, 1976

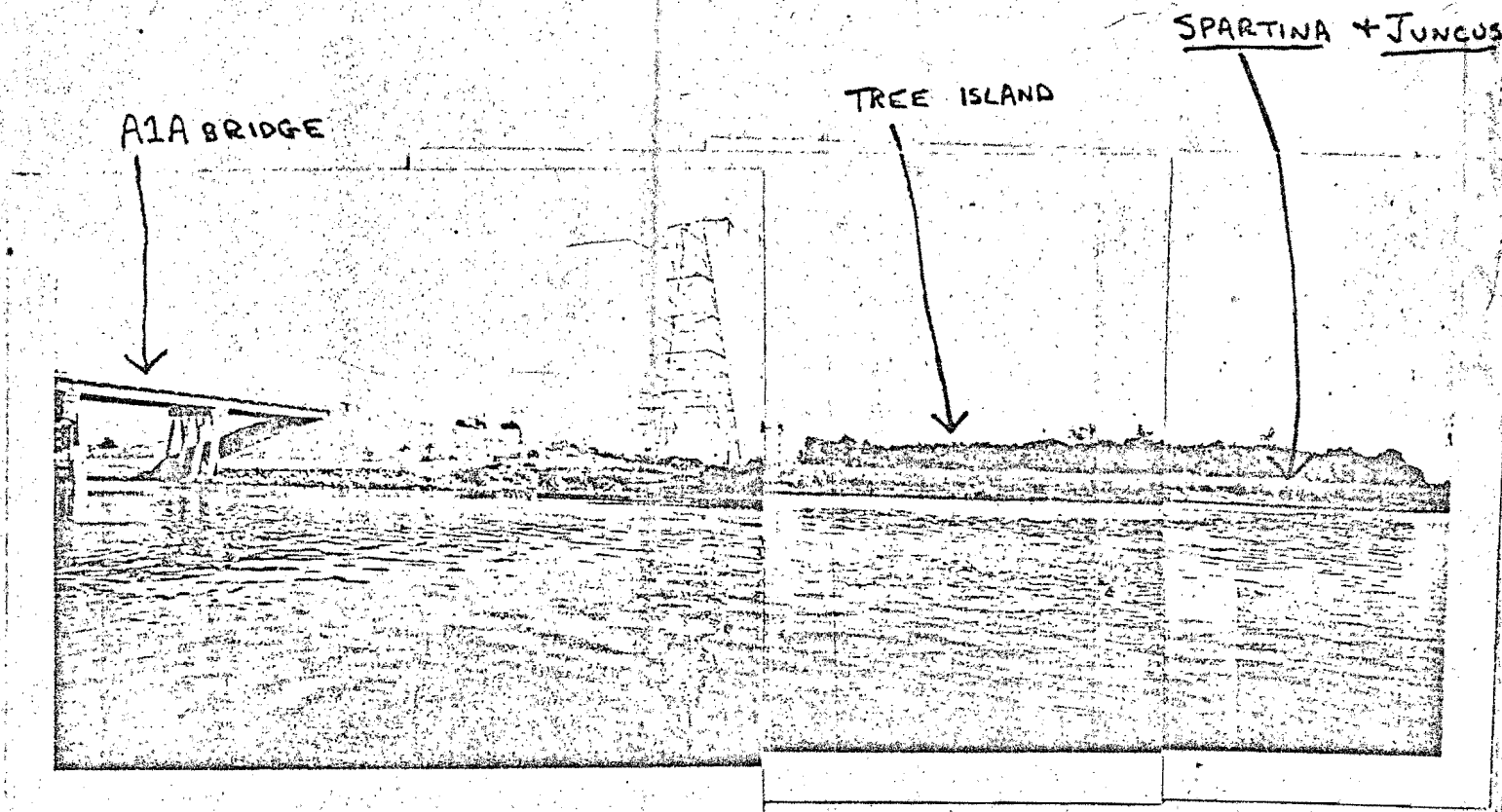


FIG. 1 EAST BANK OF AMELIA R.

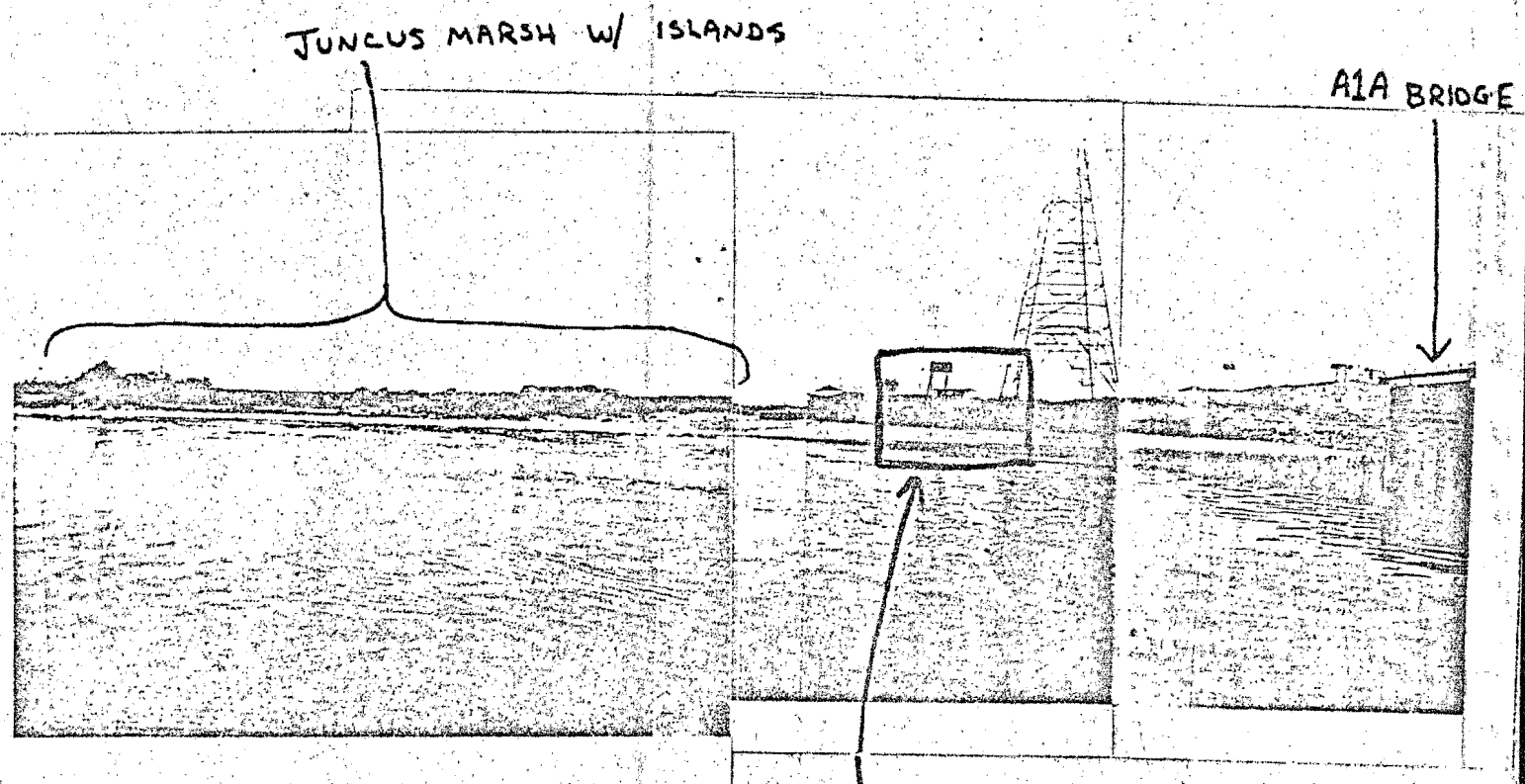
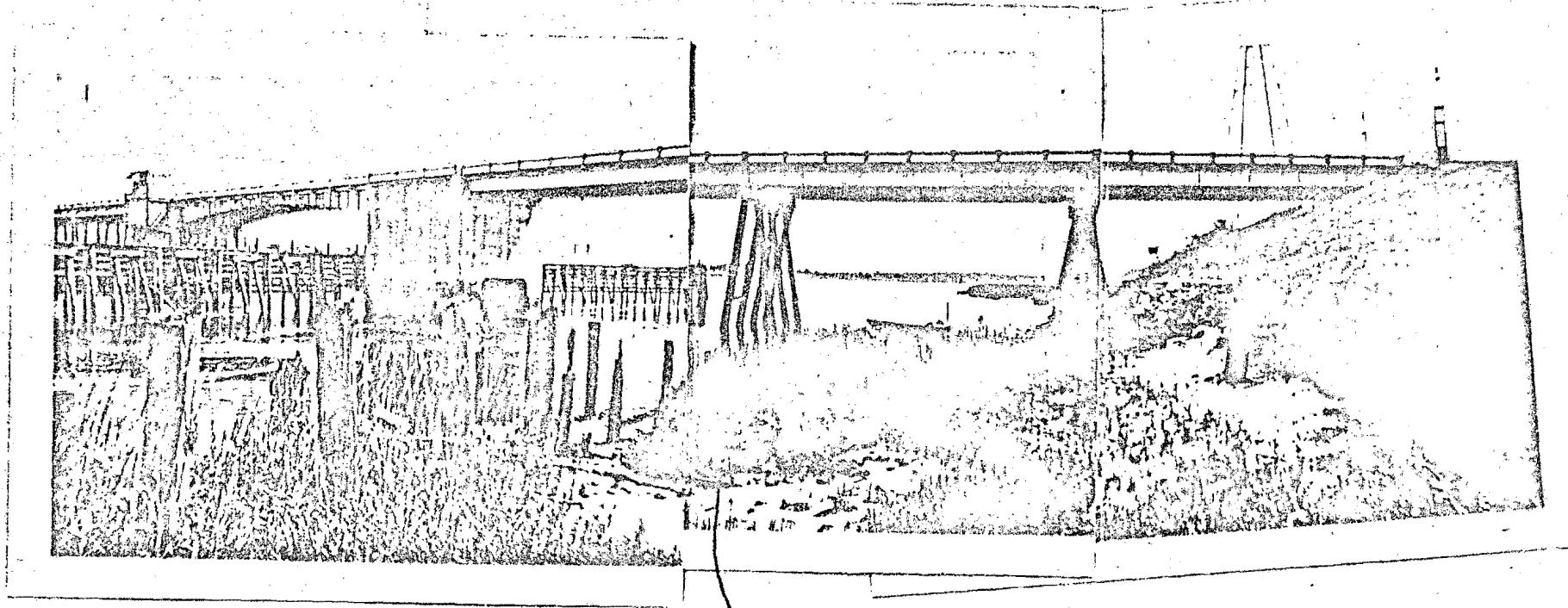
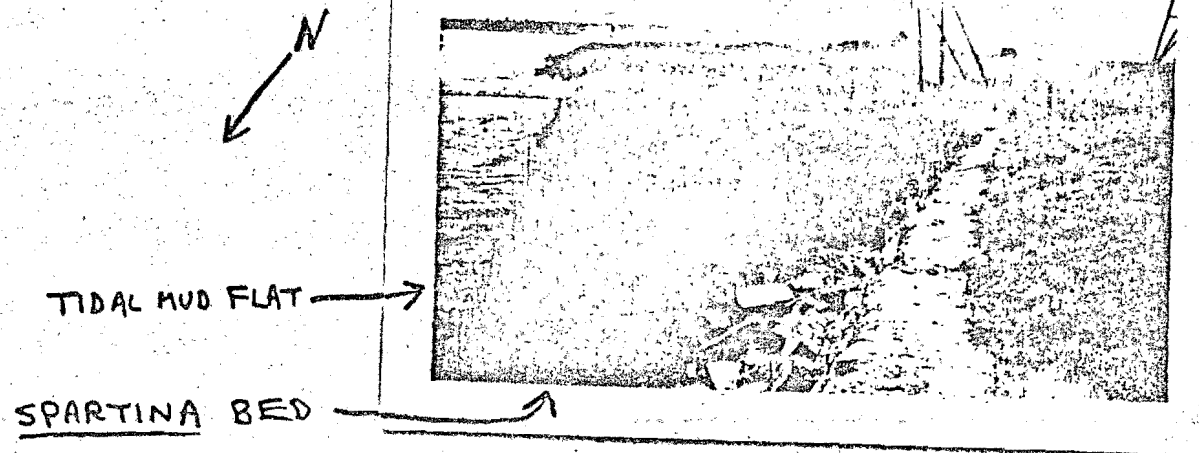


FIG. 2 WEST BANK OF AMELIA R.

Blow-up in FIG. 3

N →

FIG. 3 WEST BANK OF AMELIA R
JUST S. OF A1A BRIDGE



SPARTINA

W. B. R. - N. - A1A BRIDGE