



Pre-Construction Notification (PCN) Form

For Nationwide Permits and Regional General Permits
(along with corresponding Water Quality Certifications)

June 1, 2021 Ver 4.1

Please note: fields marked with a red asterisk * below are required. You will not be able to submit the form until all mandatory questions are answered.

Also, if at any point you wish to print a copy of the E-PCN, all you need to do is right-click on the document and you can print a copy of the form.

Below is a link to the online help file.

<https://edocs.deq.nc.gov/WaterResources/0/edoc/624704/PCN%20Help%20File%202018-1-30.pdf>

A. Processing Information

County (or Counties) where the project is located:*

Tyrrell

Dare

Is this a NCDMS Project*

Yes No

Click Yes, only if NCDMS is the applicant or co-applicant.

Is this project a public transportation project?*

Yes No

This is any publicly funded by municipal, state or federal funds road, rail, airport transportation project.

Is this a NCDOT Project?*

Yes No

(NCDOT only) T.I.P. or state project number:

HB-0001

WBS #*

49475.1.1

(for NCDOT use only)

1a. Type(s) of approval sought from the Corps:*

Section 404 Permit (wetlands, streams and waters, Clean Water Act)

Section 10 Permit (navigable waters, tidal waters, Rivers and Harbors Act)

Has this PCN previously been submitted?*

Yes

No

1b. What type(s) of permit(s) do you wish to seek authorization?*

Nationwide Permit (NWP)

Regional General Permit (RGP)

Standard (IP)

1c. Has the NWP or GP number been verified by the Corps?*

Yes No

Nationwide Permit (NWP) Number:

6 - Survey Activities

NWP Numbers (for multiple NWPS):

List all NW numbers you are applying for not on the drop down list.

1d. Type(s) of approval sought from the DWR:*

check all that apply

401 Water Quality Certification - Regular

Non-404 Jurisdictional General Permit

Individual 401 Water Quality Certification

401 Water Quality Certification - Express

Riparian Buffer Authorization

Pre-Filing Meeting Information

Before submitting this form please ensure you have submitted the Pre-Filing Meeting Request Form as we will not be able to accept your application without this important first step. The Pre-Filing

Meeting Request Form is used in accordance with 40 C.F.R. Section 121.4(a) "At least 30 days prior to submitting a certification request, the project proponent shall request a pre-filing meeting with the certifying agency" and in accordance with 40 C.F.R. Section 121.5(b)(7), and (c)(5) all certification requests shall include documentation that a pre-filing meeting request was submitted to the certifying authority at least 30 days prior to submitting the certification request. Click [here](#) to read more information on when this form is needed prior to application submission or [here](#) to view the form.

Is this a courtesy copy notification? *

Yes No

1e. Is this notification solely for the record because written approval is not required?

*

For the record only for DWR 401 Certification:

Yes No

For the record only for Corps Permit:

Yes No

1f. Is this an after-the-fact permit application? *

Yes No

1g. Is payment into a mitigation bank or in-lieu fee program proposed for mitigation of impacts?

If so, attach the acceptance letter from mitigation bank or in-lieu fee program

Yes No

Acceptance Letter Attachment

Click the upload button or drag and drop files here to attach document

FILETYPE MUST BE PDF

1h. Is the project located in any of NC's twenty coastal counties? *

Yes No

1i. Is the project located within a NC DCM Area of Environmental Concern (AEC)? *

Yes No Unknown

1j. Is the project located in a designated trout watershed? *

Yes No

Link to trout information: <http://www.saw.usace.army.mil/Missions/Regulatory-Permit-Program/Agency-Coordination/Trout.aspx>

B. Applicant Information



1a. Who is the Primary Contact? *

Gordon Cashin

1b. Primary Contact Email: *

gcashin@ncdot.gov

1c. Primary Contact Phone: *

(xxx)xxx-xxxx
(919)749-0442

1d. Who is applying for the permit? *

Owner Applicant (other than owner)
(Check all that apply)

1e. Is there an Agent/Consultant for this project? *

Yes No

2. Owner Information

2a. Name(s) on recorded deed: *

Multiple properties

2b. Deed book and page no.:

2c. Contact Person:

(for Corporations)

2d. Address *

Street Address

1000 Birch Ridge Road

Address Line 2

City

Raleigh

Postal / Zip Code

27610

State / Province / Region

NC

Country

USA

2e. Telephone Number: *

(xxx)xxx-xxxx
(919)749-0442

2f. Fax Number:

(xxx)xxx-xxxx

2g. Email Address:*

pharris@ncdot.gov

C. Project Information and Prior Project History

1. Project Information

1a. Name of project:*

Bridge No. 7 on US 64 over the Alligator River

1b. Subdivision name:

(if appropriate)

1c. Nearest municipality / town:*

Columbia

2. Project Identification

2a. Property Identification Number:

(tax PIN or parcel ID)

2b. Property size:

(in acres)

2c. Project Address

Street Address

Address Line 2

City

State / Province / Region

Postal / Zip Code

Country

2d. Site coordinates in decimal degrees

Please collect site coordinates in decimal degrees. Use between 4-6 digits (unless you are using a survey-grade GPS device) after the decimal place as appropriate, based on how the location was determined. (For example, most mobile phones with GPS provide locational precision in decimal degrees to map coordinates to 5 or 6 digits after the decimal place.)

Latitude:*

35.900732
ex: 34.208504

Longitude:*

-76.008779
-77.796371

3. Surface Waters

3a. Name of the nearest body of water to proposed project:*

Alligator River

3b. Water Resources Classification of nearest receiving water:*

SC, Sw, ORW

[Surface Water Lookup](#)

3c. What river basin(s) is your project located in?*

Pasquotank

3d. Please provide the 12-digit HUC in which the project is located.*

03010205

[River Basin Lookup](#)

4. Project Description and History

4a. Describe the existing conditions on the site and the general land use in the vicinity of the project at the time of this application:*

Existing land use in the vicinity is rural, with one gas station/marina located at the western end of the existing bridge.

4b. Have Corps permits or DWR certifications been obtained for this project (including all prior phases) in the past?*

Yes No Unknown

4f. List the total estimated acreage of all existing wetlands on the property:

88.08

4g. List the total estimated linear feet of all existing streams on the property:

(intermittent and perennial)

1,091

4h. Explain the purpose of the proposed project:*

Replace the existing bridge over Alligator River. Geotechnical borings are required to facilitate design of the new bridge's foundations.

4i. Describe the overall project in detail, including indirect impacts and the type of equipment to be used:*

Please see the attached detailed narrative of the proposed work.

5. Jurisdictional Determinations

5a. Have the wetlands or streams been delineated on the property or proposed impact areas? *

Yes No Unknown

Comments:

5b. If the Corps made a jurisdictional determination, what type of determination was made? *

Preliminary Approved Not Verified Unknown N/A

Corps AID Number:

Example: SAW-2017-99999

5c. If 5a is yes, who delineated the jurisdictional areas?

Name (if known): Rob Crowther
Agency/Consultant Company: Carolina Ecosystems
Other:

5d. List the dates of the Corp jurisdiction determination or State determination if a determination was made by the Corps or DWR.

The USACE, Division of Water Resources and Division of Coastal Management visited the project on March 31, 2021.

6. Future Project Plans

6a. Is this a phased project? *

Yes No

Are any other NWP(s), regional general permit(s), or individual permits(s) used, or intended to be used, to authorize any part of the proposed project or related activity? This includes other separate and distant crossing for linear projects that require Department of the Army authorization but don't require pre-construction notification.

This proposed work is for geotechnical investigations to facilitate bridge design. A detailed permit application for the actual bridge replacement will be submitted in the future.

D. Proposed Impacts Inventory

1. Impacts Summary

1a. Where are the impacts associated with your project? (check all that apply):

Wetlands Streams-tributaries Buffers
 Open Waters Pond Construction

2. Wetland Impacts

If there are wetland impacts proposed on the site, then complete this question for each wetland area impacted.

"W." will be used in the table below to represent the word "wetland".

2a. Site #* (?)	2a1 Reason* (?)	2b. Impact type* (?)	2c. Type of W.*	2d. W. name*	2e. Forested*	2f. Type of Jurisdiction* (?)	2g. Impact area*
1	Borings	T	Salt/Brackish Marsh	marsh	No	Both	0.021 (acres)

2g. Total Temporary Wetland Impact

0.021

2g. Total Permanent Wetland Impact

0.000

2g. Total Wetland Impact

0.021

2i. Comments:

Assuming a 2 foot radius of impact around each boring.

4. Open Water Impacts

If there are proposed impacts to lakes, ponds, estuaries, tributaries, sounds, the Atlantic Ocean, or any other open water of the U.S. then individually list all open water impacts below.

4a. Site #* (?)	4a1. Impact Reason	4b. Impact type* (?)	4c. Name of waterbody (?)	4d. Activity type*	4e. Waterbody type*	4f. Impact area*
1	borings	T	Alligator River	Excavation	Tributary	0.04 (acres)

4g. Total temporary open water impacts:

0.04

4g. Total permanent open water impacts:

0.00

4g. Total open water impacts:

0.04

4h. Comments:

E. Impact Justification and Mitigation

1. Avoidance and Minimization

1a. Specifically describe measures taken to avoid or minimize the proposed impacts in designing the project: *

Please see the attached detailed narrative.

1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques: *

The drilling and sampling of the borings will be completed within the steel casing utilizing mud-rotary drilling methods. Drill fluids consisting of a water-bentonite slurry will be circulated from a mud tub on the barge platform through the drill tools and drilling bit and recirculated to the mud tub on the barge platform through the outer steel casing. Drilling cuttings (spoils) will be captured in the mud tub, removed as necessary to facilitate drilling and sampling operations, and temporarily stored in metal drums on the barge platform until boring termination is achieved. Please see the attached narrative for additional information.

2. Compensatory Mitigation for Impacts to Waters of the U.S. or Waters of the State

2a. Does the project require Compensatory Mitigation for impacts to Waters of the U.S. or Waters of the State?

Yes No

2b. If this project DOES NOT require Compensatory Mitigation, explain why:

The request is for geotechnical borings only.

NC Stream Temperature Classification Maps can be found under the Mitigation Concepts tab on the Wilmington District's [RIBITS](#) website.

F. Stormwater Management and Diffuse Flow Plan (required by DWR)

*** Recent changes to the stormwater rules have required updates to this section .***

1. Diffuse Flow Plan

1a. Does the project include or is it adjacent to protected riparian buffers identified within one of the NC Riparian Buffer Protection Rules?

Yes No

For a list of options to meet the diffuse flow requirements, click [here](#).

If no, explain why:

The Pasquotank Basin does not have riparian buffer rules.

2. Stormwater Management Plan

2a. Is this a NCDOT project subject to compliance with NCDOT's Individual NPDES permit NCS000250? *

Yes No

2b. Does this project meet the requirements for low density projects as defined in 15A NCAC 02H .1003(2)? *

Yes No

To look up low density requirement click here [15A NCAC 02H .1003\(2\)](#).

2c. Does this project have a stormwater management plan (SMP) reviewed and approved under a state stormwater program or state-approved local government stormwater program? *

Yes N/A - project disturbs < 1 acre

Hint: projects that have vested rights, exemptions, or grandfathering from state or locally implemented stormwater programs or projects that satisfy state or locally-implemented stormwater programs through use of community in-lieu programs should answer no to this question.

Comments:

G. Supplementary Information

1. Environmental Documentation

1a. Does the project involve an expenditure of public (federal/state/local) funds or the use of public (federal/state) land? *

Yes No

1b. If you answered "yes" to the above, does the project require preparation of an environmental document pursuant to the requirements of the National or State (North Carolina) Environmental Policy Act (NEPA/SEPA)? *

Yes No

1c. If you answered "yes" to the above, has the document review been finalized by the State Clearing House? (If so, attach a copy of the NEPA or SEPA final approval letter.) *

Yes No

Comments: *

A Categorical Exclusion document is in preparation for the bridge replacement.

2. Violations (DWR Requirement)

2a. Is the site in violation of DWR Water Quality Certification Rules (15A NCAC 2H .0500), Isolated Wetland Rules (15A NCAC 2H .1300), or DWR Surface Water or Wetland Standards or Riparian Buffer Rules (15A NCAC 2B .0200)? *

Yes No

3. Cumulative Impacts (DWR Requirement)

3a. Will this project (based on past and reasonably anticipated future impacts) result in additional development, which could impact nearby downstream water quality? *

Yes No

3b. If you answered "no," provide a short narrative description.

The borings are needed to assist with the design for the future bridge replacement.

4. Sewage Disposal (DWR Requirement)

4a. Is sewage disposal required by DWR for this project? *

Yes No N/A

5. Endangered Species and Designated Critical Habitat (Corps Requirement)

5a. Will this project occur in or near an area with federally protected species or habitat? *

Yes No

5b. Have you checked with the USFWS concerning Endangered Species Act impacts? *

Yes No

5c. If yes, indicate the USFWS Field Office you have contacted.

Raleigh

5d. Is another Federal agency involved? *

Yes No Unknown

What Federal Agency is involved?

NOAA Fisheries

5e. Is this a DOT project located within Division's 1-8? *

Yes No

5j. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat? *

NC Natural Heritage databases and field surveys

6. Essential Fish Habitat (Corps Requirement)

6a. Will this project occur in or near an area designated as an Essential Fish Habitat? *

Yes No

6b. What data sources did you use to determine whether your site would impact an Essential Fish Habitat? *

NOAA Essential fish habitat mapping tool.

7. Historic or Prehistoric Cultural Resources (Corps Requirement)

Link to the State Historic Preservation Office Historic Properties Map (does not include archaeological data: <http://gis.ncdcr.gov/hpweb/>)

7a. Will this project occur in or near an area that the state, federal or tribal governments have designated as having historic or cultural preservation status (e.g., National Historic Trust designation or properties significant in North Carolina history and archaeology)? *

Yes No

7b. What data sources did you use to determine whether your site would impact historic or archeological resources? *

Coordination with SHPO

8. Flood Zone Designation (Corps Requirement)

Link to the FEMA Floodplain Maps: <https://msc.fema.gov/portal/search>

8a. Will this project occur in a FEMA-designated 100-year floodplain? *

Yes No

8b. If yes, explain how project meets FEMA requirements:

The proposed activity is for temporary impacts.

8c. What source(s) did you use to make the floodplain determination? *

FRIS

Miscellaneous

Comments

Please use the space below to attach all required documentation or any additional information you feel is helpful for application review. Documents should be combined into one file when possible, with a Cover Letter, Table of Contents, and a Cover Sheet for each Section preferred.

[Click the upload button or drag and drop files here to attach document](#)

HB-0001_Alligator River Boring Plan.pdf

2.87MB

File must be PDF or KMZ

Signature

*

By checking the box and signing below, I certify that:

- The project proponent hereby certifies that all information contained herein is true, accurate, and complete to the best of my knowledge and belief; and
- The project proponent hereby requests that the certifying authority review and take action on this CWA 401 certification request within the applicable reasonable period of time.
- I have given true, accurate, and complete information on this form;
- I agree that submission of this PCN form is a "transaction" subject to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic Transactions Act");
- I agree to conduct this transaction by electronic means pursuant to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic Transactions Act");
- I understand that an electronic signature has the same legal effect and can be enforced in the same way as a written signature; AND
- I intend to electronically sign and submit the PCN form.

Full Name: *

Mack Christopher Rivenbark, III

Signature *

Mack C. Rivenbark, III

Date

7/15/2021

Alligator River Bridge Project Geotechnical Borings

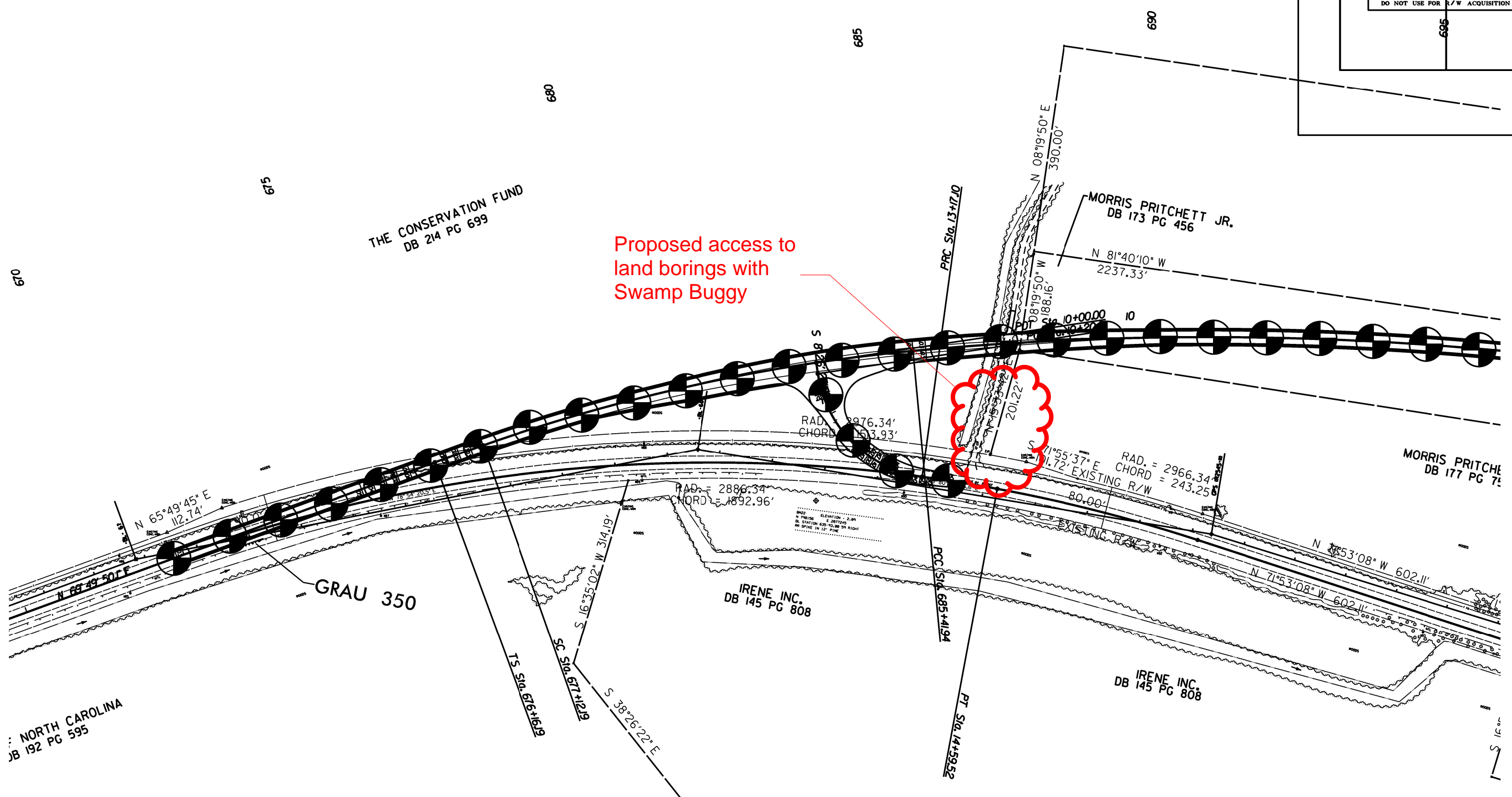
A private engineering firm will be selected to conduct the geotechnical subsurface investigation for the project with approximately 222 Standard Penetration Test (SPT) borings to be performed. These 222 borings will be performed in the corridor shown on the attached site map. We anticipate 149 bridge borings will be located within the Alligator River to the north of the existing Alligator River Bridge and be accessed using barge mounted drilling equipment. Approximately 40 roadway and 3 bridge borings will be performed along the western bridge approach and 27 roadway and 3 bridge borings will be performed along the eastern bridge approach and accessed using ATV mounted drilling equipment.

The bridge borings in the Alligator River will be advanced utilizing geotechnical drilling rigs mounted to self-propelled floating barge or jack-up barge platforms. The floating barge platforms will be used closer to the eastern and western shores of the river, or in shallow water as needed, and will be stabilized at the boring locations using aluminum or steel spuds dropped into the river bottom to hold the barge in place during drilling. Additional spud casing can be added or removed depending on the water depth and will be extended well above the working platform to allow the barge to float up or down with changing water levels (tidal changes). The jack-up barges will mechanically lower stabilizing spuds to the river bottom at the boring locations and will then be used to raise the barge platform completely out of the water and provide a stable working platform during drilling operations unaffected by changing water levels. Each boring will advance 3-inch or 4-inch diameter steel outer casing from the barge platform to the mudline and into the subsurface by rotation or driving creating minimal disturbance to the river bottom. This temporary casing will be advanced as needed into the subsurface to provide borehole stability. Any ground disturbance from the borings should be limited to within a 2-foot radius of the boring location. The drilling and sampling of the borings will be completed within the steel casing utilizing mud-rotary drilling methods. Drill fluids consisting of a water-bentonite slurry will be circulated from a mud tub on the barge platform through the drill tools and drilling bit and recirculated to the mud tub on the barge platform through the outer steel casing. Drilling cuttings (spoils) will be captured in the mud tub, removed as necessary to facilitate drilling and sampling operations, and temporarily stored in metal drums on the barge platform until boring termination is achieved. Upon boring termination, any stored drill cuttings will be shoveled back down the steel outer casing and into the subsurface and the temporary casing will be removed. Stored drill cuttings unable to be returned to the subsurface will be brought to shore and deposited on land outside of wetland areas. The barge drilling platforms will be launched and recovered from the marina/boat ramp shown on the attached site map. It is expected that each bridge boring will be advanced to a depth of approximately 150 feet and will take two days to complete. We anticipate having up to three barge mounted drilling rigs in operation and estimate approximately 6 months to complete these borings.

The roadway and bridge borings located on land along the bridge approaches will be advanced utilizing geotechnical drilling rigs mounted to rubber-tired, tracked, or marsh-buggy ATV platforms as needed based on actual ground conditions. Drilling and sampling operations will be performed as described above using mud-rotary drilling methods and tools. Any ground disturbance from the borings should be limited to within a 2-foot radius of the boring location. Movement of the ATV drilling rigs will be confined to the proposed alignment corridor as much as possible to minimize ground disturbance accessing these locations. Access to the alignment corridor will be from existing access points, roads, or right-of-way. If a proposed boring location is inaccessible to ATV drilling equipment, hand tools consisting of hand augers and/or muck probes will be utilized to characterize the subsurface conditions

at those locations. It is expected the roadway borings will be advanced to depths ranging from 10 to 50 feet below existing ground surface and will be performed concurrently with the barge drilling operations.

PROJECT REFERENCE NO.	SHEET NO.
	1
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	



Proposed access to
land borings with
Swamp Buggy

REVISIONS

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NORTH CAROLINA
JB 192 PG 595

GRAU 350

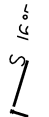
THE CONSERVATION FUND
DB 214 PG 699

IRENE INC.
DB 145 PG 808

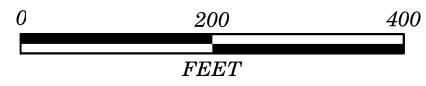
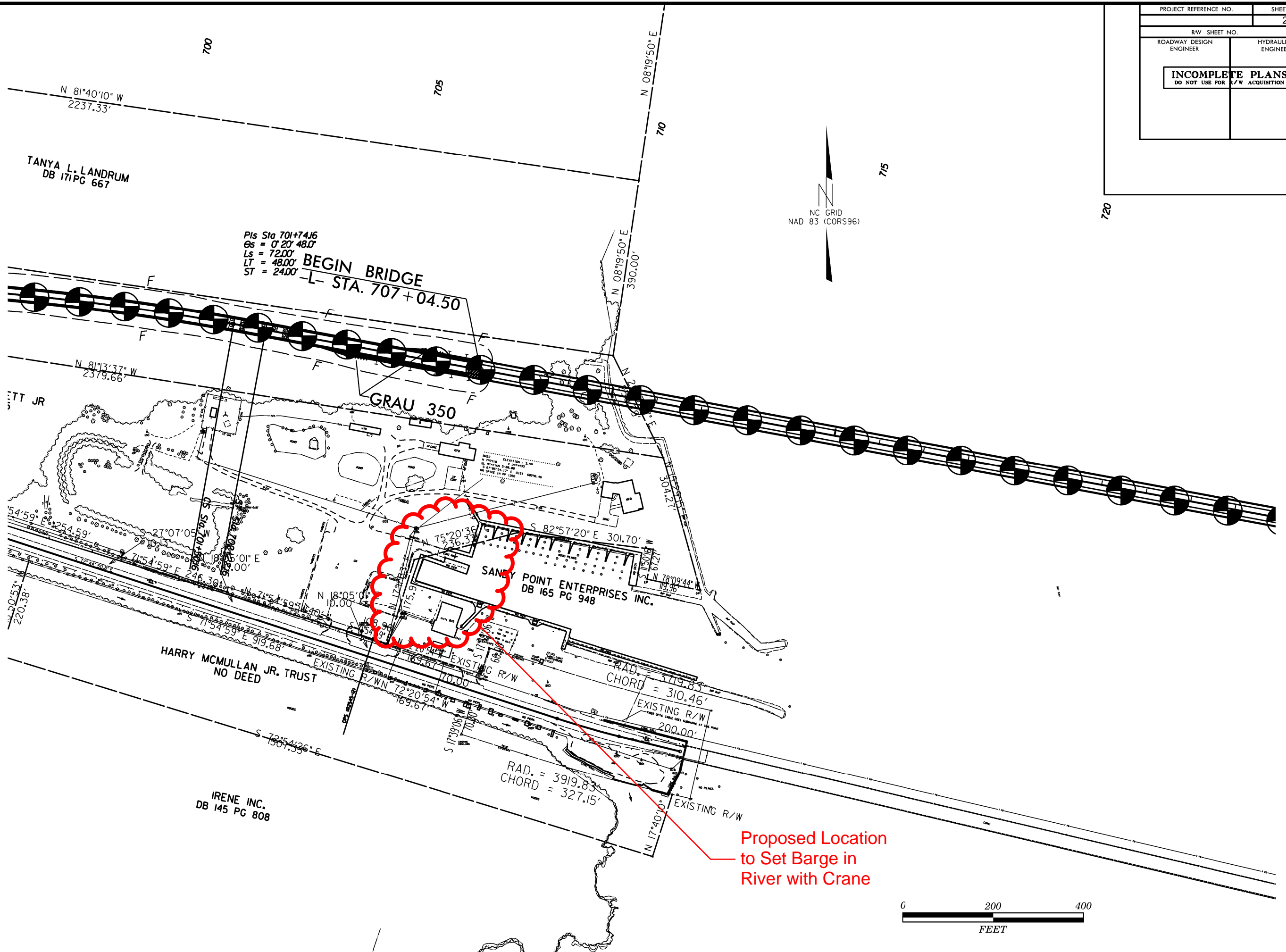
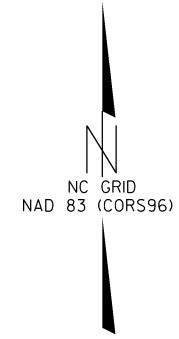
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DB 145 PG 808

MORRIS PRITCHETT JR.
DB 173 PG 456

MORRIS PRITCHETT
DB 177 PG 7



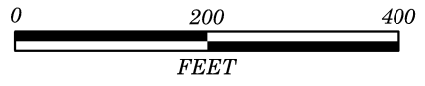
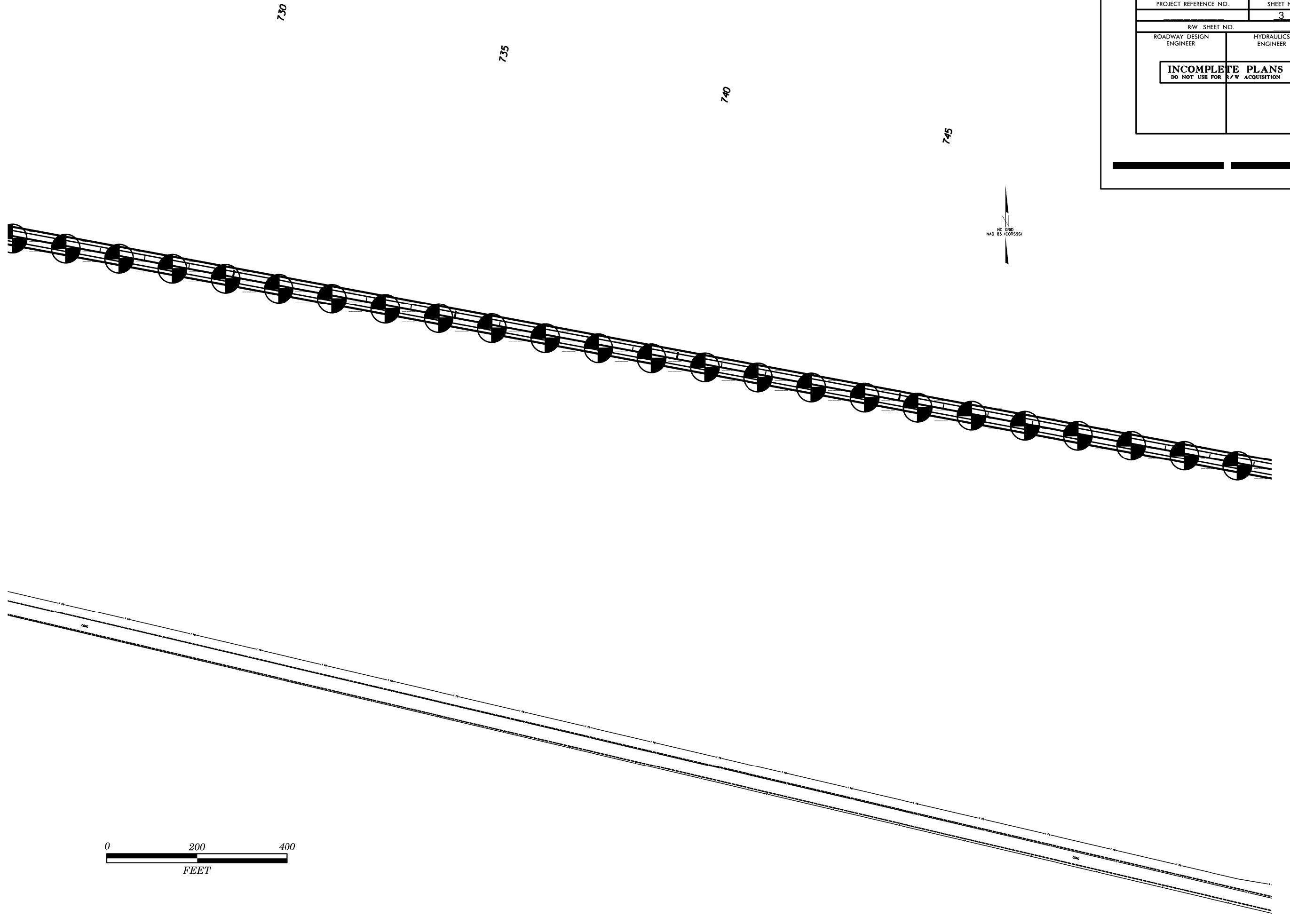
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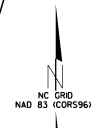
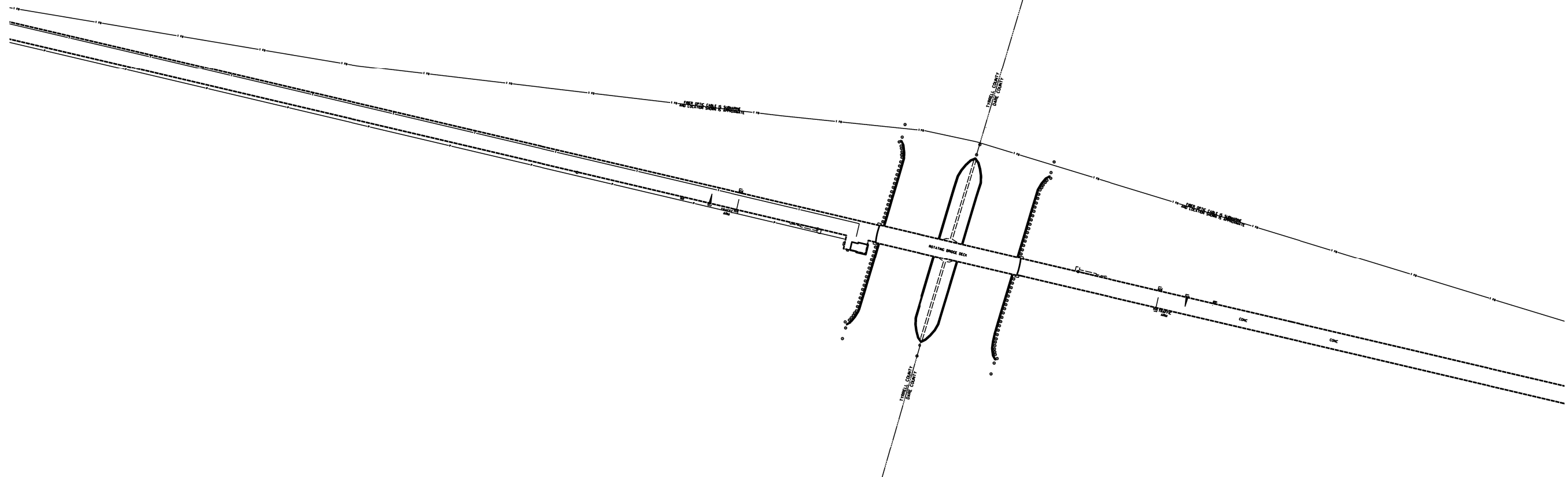
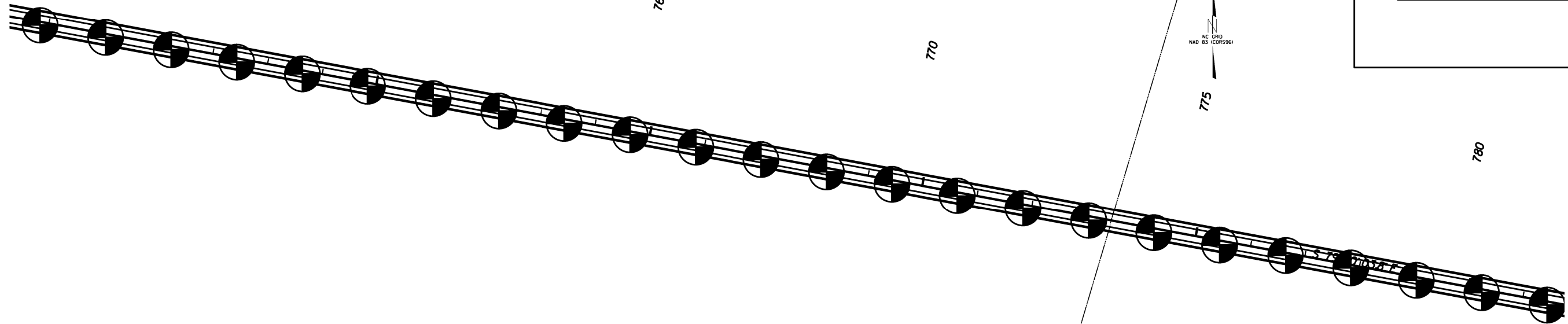


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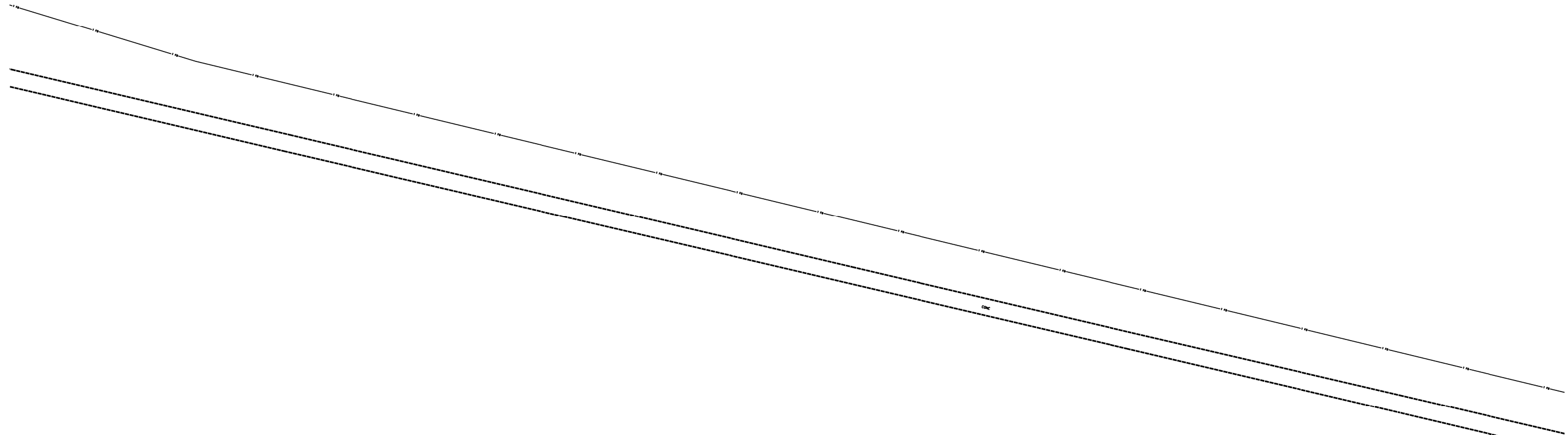
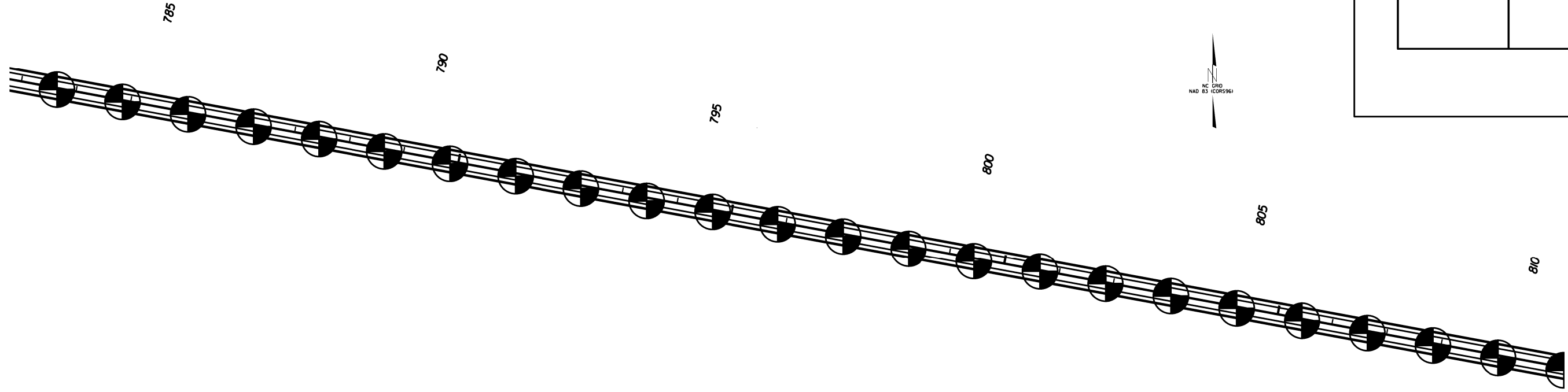


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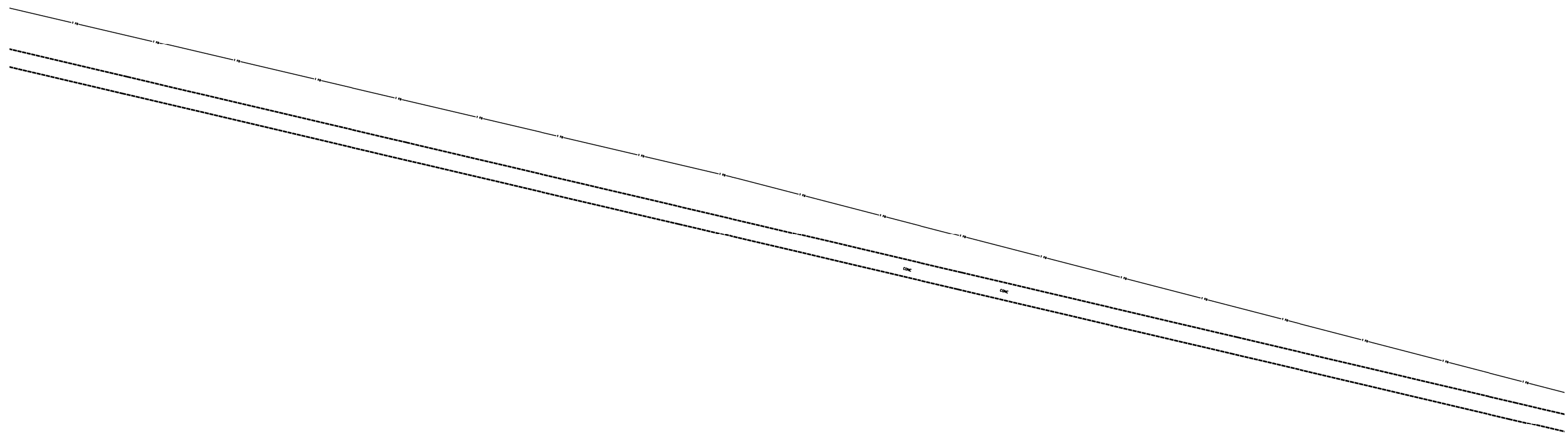
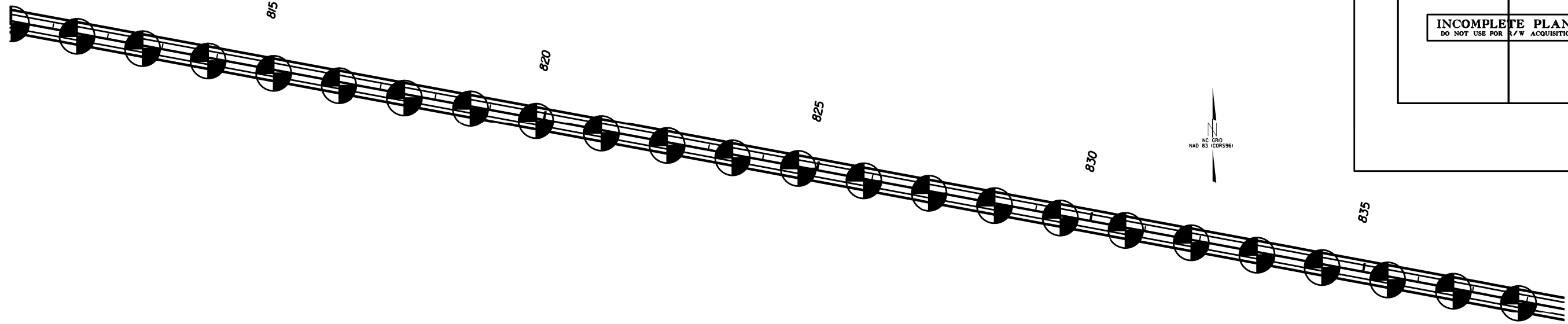


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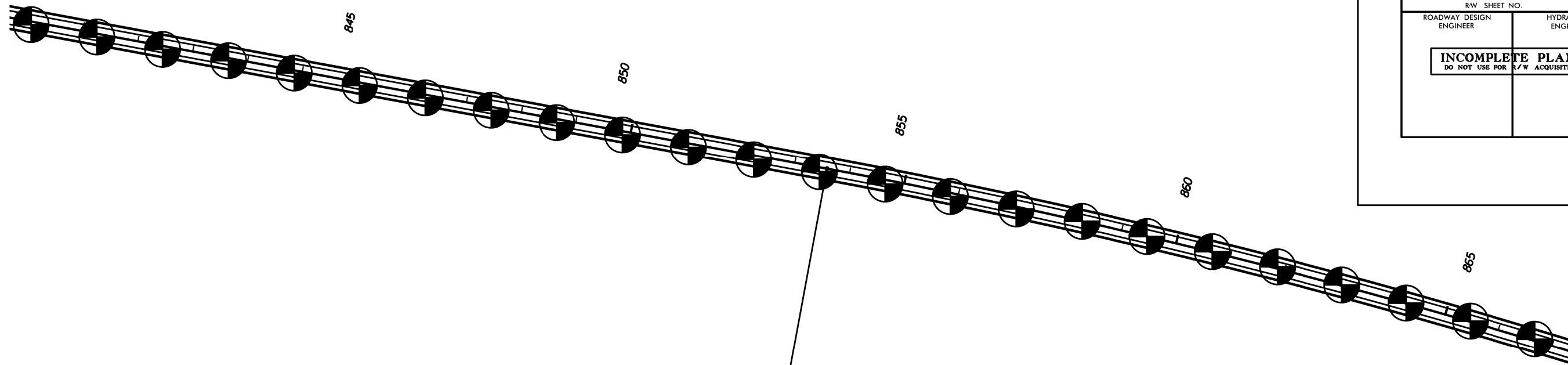
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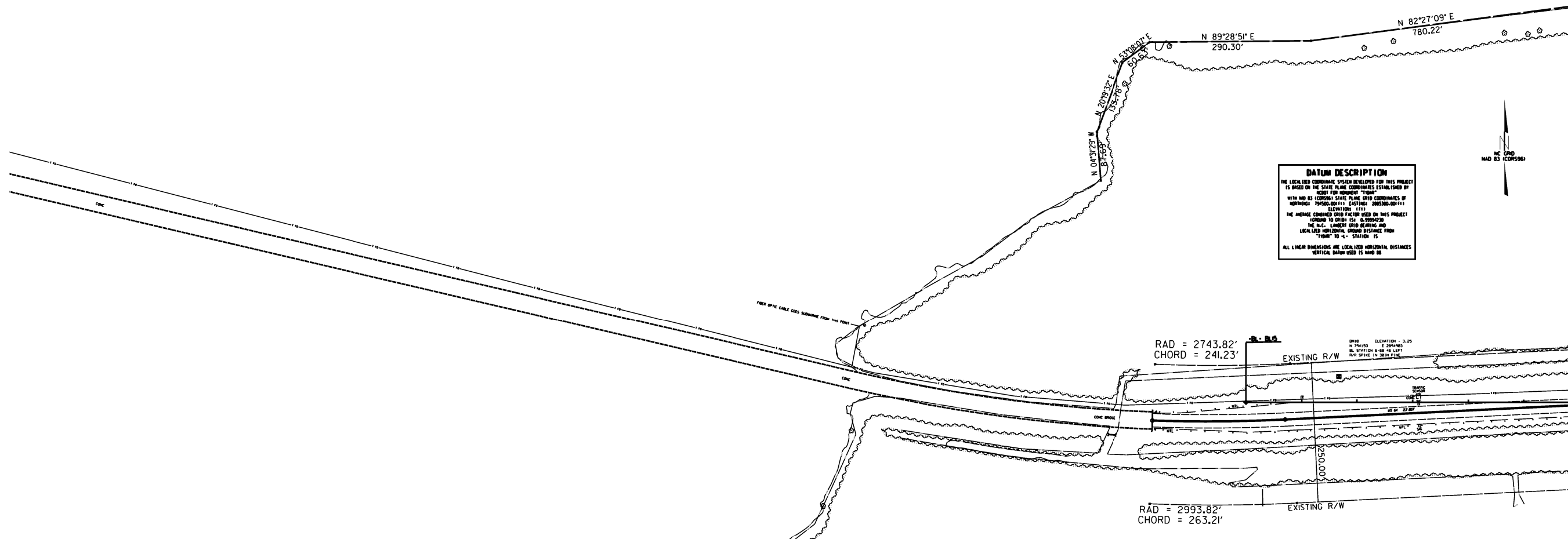
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PROJECT REFERENCE NO.	SHEET NO.
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RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	



PROJECT REFERENCE NO.		SHEET NO.	
		7	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			



DATUM DESCRIPTION
 THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY THE N.C. GEODESIC SURVEY. THE GRID COORDINATES OF NORTHING: 790400.00 (11) EASTING: 206300.00 (11) ELEVATION: 1511'. THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT IS 0.9999928. THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL CHORD DISTANCE FROM "TYPICAL" TO "L" STATION IS:
 ALL HORIZONTAL DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES. VERTICAL DATUM USED IS NAD 83.



RAD = 2743.82'
CHORD = 241.23'

RAD = 2993.82'
CHORD = 263.21'

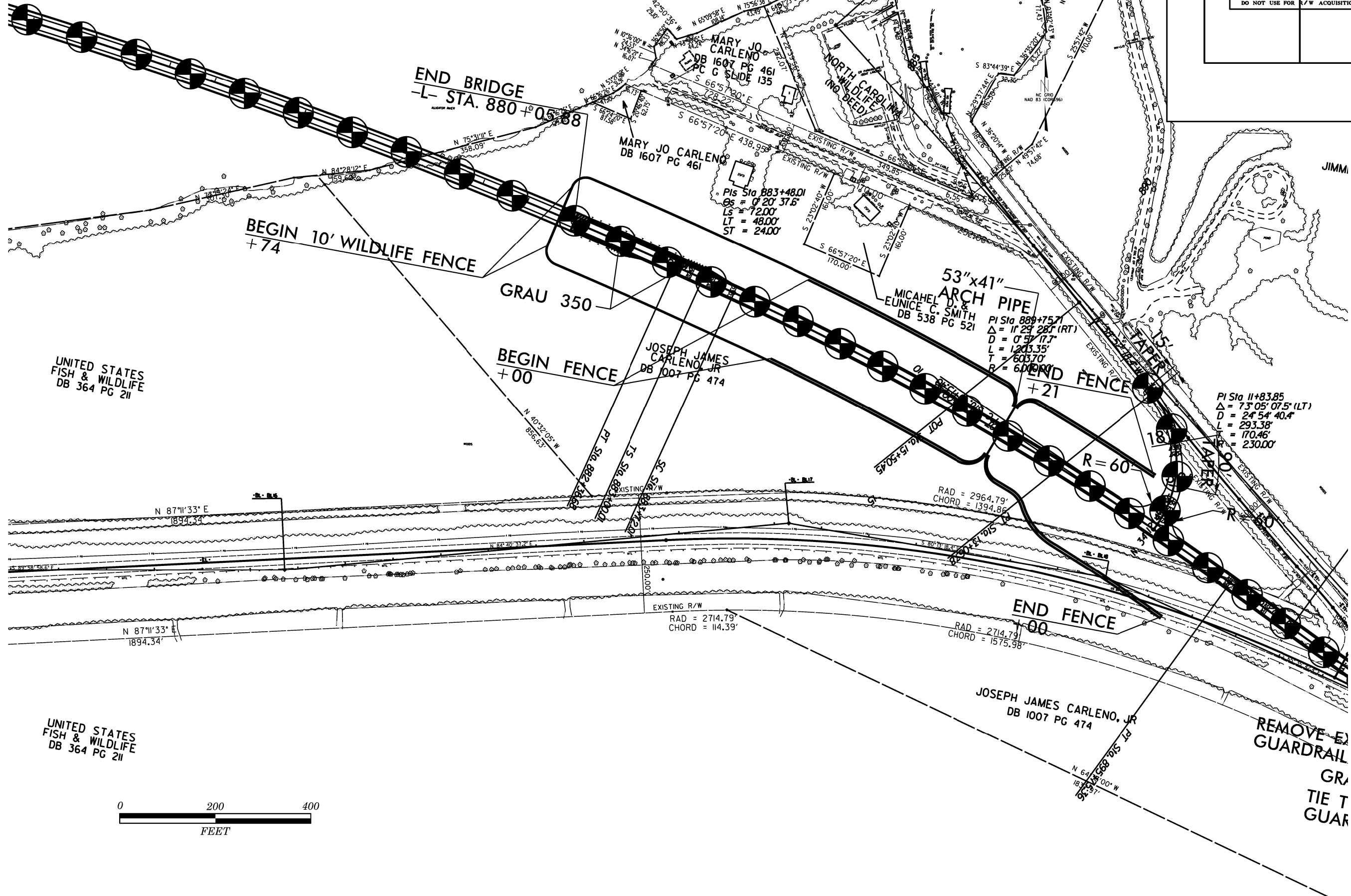
B-B
 BWH ELEVATION = 3.25
 W 7" x 63" E 30" x 42"
 B. STATION 6+50.48 LEFT
 R/W SPREAD TO 250' R/W

EXISTING R/W

EXISTING R/W

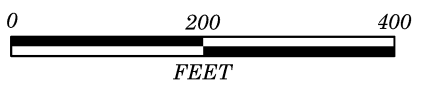
$\Delta = 13^\circ 44' 29.7''$ (RT)
 $D = 0' 28' 38.9''$
 $L = 2,878.03'$
 $T = 1,445.95'$
 $R = 12,000.00'$

PROJECT REFERENCE NO.	SHEET NO.
	8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS	
DO NOT USE FOR R/W ACQUISITION	



UNITED STATES FISH & WILDLIFE DB 364 PG 2II

UNITED STATES FISH & WILDLIFE DB 364 PG 2II

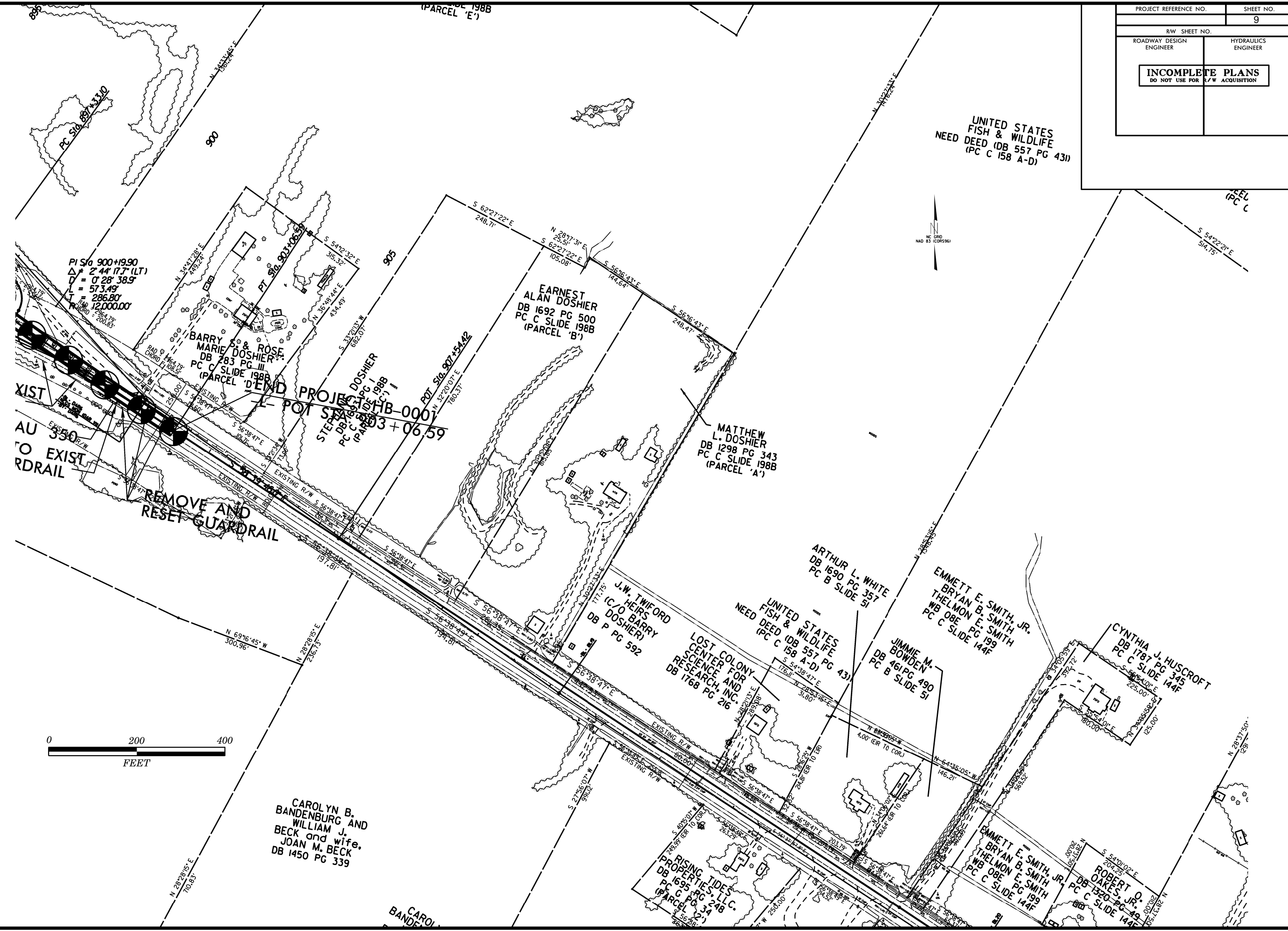


REVISIONS

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 AT: [unclear]

PROJECT REFERENCE NO.	SHEET NO.
	9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS	
DO NOT USE FOR R/W ACQUISITION	

UNITED STATES
FISH & WILDLIFE
NEED DEED (DB 557 PG 43)
(PC C 158 A-D)

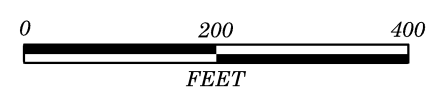


PI Sta 900+19.90
Δ = 2' 44" (7.7' (LT))
D = 0' 28" 38.9"
L = 573.49'
T = 286.80'
R = 12,000.00'

EXIST
AU 350
TO EXIST
RDRAIL

REMOVE AND
RESET GUARDRAIL

POT STAKE
PROJECT HB-0001
PC C SLIDE 198B
(PARCEL 'C')



CAROLYN B.
BANDENBURG AND
WILLIAM J.
BECK and wife,
JOAN M. BECK
DB 1450 PG 339

REVISIONS

15-JUN-2021 16:00
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8/17/99