



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J.R. "JOEY" HOPKINS
SECRETARY

January 27, 2024

MEMORANDUM TO: Division Environmental and Construction Units

FROM: *mat* Michael A. Turchy, ECAP Group Leader
Environmental Analysis Unit

SUBJECT: Environmental Permits for the Replacement of Bridge 7 on US 64 over
Alligator River in Dare and Tyrrell County, Division 1, **TIP: HB-0001.**

Please find enclosed the following permits for the test pile program for this project:

Agency	Permit Type	Permit Expiration
US Army Corps of Engineers Section 404 Clean Water Act Permit Section 10 Rivers and Harbors Act	Nationwide Permit 6 and 33	March 14, 2026
NC Division of Water Resources Section 401 Water Quality Certification	Non-Written General Cert. No. 4242 [NWP 6] Non-Written General Cert. No. 4260 [NWP 33]	March 14, 2026
NC Division of Coastal Management Coastal Area Management Act	CAMA Major Development Permit Modification of 11/30/2023 Permit	March 14, 2026

Work is authorized by the above referenced permit provided it is accomplished in strict accordance with the permitted plans.

The Environmental Coordination and Permitting Group or the Division Environmental Office must be consulted if any deviation from the permit(s) or accompanying drawings is required.

The General Conditions and Certifications for Nationwide and Regional Permits can be referenced at:
https://xfer.services.ncdot.gov/pdea/PermIssued/_General_Conditions_and_Certifications/

**U.S. ARMY CORPS OF ENGINEERS
WILMINGTON DISTRICT**

Action Id. **SAW-2021-01091** County: **Tyrrell County** U.S.G.S. Quad: **Fort Landing**

GENERAL PERMIT (REGIONAL AND NATIONWIDE) VERIFICATION

Permittee: **Jason Dilday**
NC DOT
Address: **1598 Mail Service Center**
Raleigh NC, 27699-1598
Telephone Number: **(919) 707-5785**

Size (acres) **20** Nearest Town **Columbia**
Nearest Waterway **Alligator River** River Basin **Albemarle-Chowan**
USGS HUC **03010205** Coordinates Latitude: **35.907294**; Longitude: **-76.028807**

Location description: **The project area is located on either side of the Alligator River along the alignment of US 64 approximately 13.5 miles east of the town of Columbia in Tyrrell County, North Carolina.**

Description of projects area and activity: **NCDOT proposes to drive 20 test piles at 15 different locations within the alignment of the proposed Alligator River Bridge location. These piles will be 36" or 48" in diameter and will be cut off below the mudline when the project is completed. Additionally, 19 piles 30" in diameter will be installed along a 1,080 foot alignment at 60 feet apart for the mooring of equipment for this project. These piles will be removed at the completion of the project.**

Applicable Law: ☐ Section 404 (Clean Water Act, 33 USC 1344);
☒ Section 10 (Rivers and Harbors Act, 33 USC 403)

Authorization: Regional General Permit Number and/or Nationwide Permit Number: **6&33**
SEE ATTACHED RGP or NWP GENERAL, REGIONAL AND/OR SPECIAL CONDITIONS

Your work is authorized by the above referenced permit provided it is accomplished in strict accordance with the attached conditions and your submitted application and attached information dated January 8, 2024. Any violation of the attached conditions or deviation from your submitted plans may subject the permittee to a stop work order, a restoration order, a Class I administrative penalty, and/or appropriate legal action.

This verification will remain valid until the expiration date identified below unless the nationwide and/or regional general permit authorization is modified, suspended or revoked. If, prior to the expiration date identified below, the nationwide and/or regional general permit authorization is reissued and/or modified, this verification will remain valid until the expiration date identified below, provided it complies with all requirements of the modified nationwide permit. If the nationwide and/or regional general permit authorization expires or is suspended, revoked, or is modified, such that the activity would no longer comply with the terms and conditions of the nationwide permit, activities which have commenced (i.e., are under construction) or are under contract to commence in reliance upon the nationwide and/or regional general permit, will remain authorized provided the activity is completed within twelve months of the date of the nationwide and/or regional general permit's expiration, modification or revocation, unless discretionary authority has been exercised on a case-by-case basis to modify, suspend or revoke the authorization.

Activities subject to Section 404 (as indicated above) may also require an individual Section 401 Water Quality Certification. You should contact the NC Division of Water Resources (telephone 919-807-6300) to determine Section 401 requirements.

For activities occurring within the twenty coastal counties subject to regulation under the Coastal Area Management Act (CAMA), prior to beginning work you must contact the N.C. Division of Coastal Management in Morehead City, NC, at (252) 808-2808.

This Department of the Army verification does not relieve the permittee of the responsibility to obtain any other required Federal, State or local approvals/permits.

If there are any questions regarding this verification, any of the conditions of the Permit, or the Corps of Engineers regulatory program, please contact **Kyle Barnes at (910) 251-4584 or Kyle.W.Barnes@usace.army.mil.**

Corps Regulatory Official: Monte Matthews Date: **January 26, 2024**
Expiration Date of Verification: **March 14, 2026**

The Wilmington District is committed to providing the highest level of support to the public. To help us ensure we continue to do so, please complete our Customer Satisfaction Survey, located online at <https://regulatory.ops.usace.army.mil/customer-service-survey/>

SAW-2021-01091

SPECIAL CONDITIONS

1. The NCDOT shall implement the "Guidelines for Avoiding Impacts to the West Indian Manatee: Precautionary Measures for Construction Activities in North Carolina Waters" as identified by the USFW Service.

Action ID Number: SAW-2021-01091

County: Tyrrell County

Permittee: Jason Dilday
NC DOT

Project Name: NCDOT HB-0001 Alligator River Bridge

Date Verification Issued: January 26, 2024

Project Manager: Kyle Barnes

Upon completion of the activity authorized by this permit and any mitigation required by the permit, sign this certification and return it to the following address:

US ARMY CORPS OF ENGINEERS
WILMINGTON DISTRICT
Attn: Kyle Barnes

Please note that your permitted activity is subject to a compliance inspection by a U. S. Army Corps of Engineers representative. Failure to comply with any terms or conditions of this authorization may result in the Corps suspending, modifying or revoking the authorization and/or issuing a Class I administrative penalty, or initiating other appropriate legal action.

I hereby certify that the work authorized by the above referenced permit has been completed in accordance with the terms and condition of the said permit, and required mitigation was completed in accordance with the permit conditions.

Signature of Permittee

Date

Permit Class
MODIFICATION/MINOR

Permit Number
136-23

STATE OF NORTH CAROLINA
Department of Environmental Quality
and
Coastal Resources Commission

Permit

for

X Major Development in an Area of Environmental Concern
pursuant to NCGS 113A-118

X Excavation and/or filling pursuant to NCGS 113-229

Issued to **N.C. Department of Transportation, 1598 Mail Service Center, Raleigh, NC 27699-1598**

Authorizing development in Tyrrell/Dare County at Alligator River/AIWW, Lindsay C. Warren
Bridge on US 64, as requested in the permittee's application dated 1/5/2024, including the
attached workplan drawings (27): as referenced in Condition No. 2 of this permit.

This permit, issued on January 19, 2024, is subject to compliance with the application (where consistent with the permit), all applicable regulations, special conditions and notes set forth below. Any violation of these terms may be subject to fines, imprisonment or civil action; or may cause the permit to be null and void.

- 1) Unless specifically altered herein, this Minor Modification authorizes the following: (1) installation of twenty exploratory test piles at fifteen in-water bent locations along the bridge alignment to collect pile driving data and to validate proposed installation options; and (2) installation of nineteen 30-inch steel pipe piles spaced approximately 60 feet apart for approximately 1,080 linear feet for securing barges during the test pile study and bridge construction, all as depicted on the attached workplan drawings [07J .0202].
- 2) Unless specifically altered herein, all work authorized by this permit shall be carried out in accordance with the following attached workplan drawings [07J .0202(c)]: 19 dated 12/28/23; 4 dated 1/2/24; 2 dated 1/4/24; and 2 dated as received 1/5/24.

(See attached sheets for Additional Conditions)

This permit action may be appealed by the permittee or other qualified persons within twenty (20) days of the issuing date.

This permit must be accessible on-site to Department personnel when the project is inspected for compliance.

Any maintenance work or project modification not covered hereunder requires further Division approval.

All work must cease when the permit expires on

No expiration date, pursuant to GS 136-44.7B

In issuing this permit, the State of North Carolina agrees that your project is consistent with the North Carolina Coastal Management Program.

Signed by the authority of the Secretary of DEQ and the Chair of the Coastal Resources Commission.



Braxton C. Davis, Director
Division of Coastal Management

This permit and its conditions are hereby accepted.



Signature of Permittee

ADDITIONAL CONDITIONS

- 3) In accordance with commitments made by the permittee, and in order to protect fisheries resources, no in-water work shall be conducted in the Alligator River from July 15 to September 30 of any year, and in addition, no in-water work shall be conducted in the deepwater channel of the Alligator River (between new bridge bents 44-57) from February 15 to June 30, without prior approval of the N.C. Division of Coastal Management (DCM), in consultation with the appropriate resource agencies [07H .0208(a)(2)].
- 4) In accordance with commitments made in the permit modification request, test piles at Bent 47 shall be driven first due to the upcoming in-water work moratorium [07H .0208(a)(2)].

NOTE: The permittee is strongly encouraged to contact the N.C. Division of Marine Fisheries Habitat Section to discuss the feasibility of collecting quantitative and qualitative data on the turbidity and noise that is generated during installation of the twenty exploratory test piles. This may result in a modification of the permit requirement to use turbidity curtains.

- 5) The installation and removal of the test piles and mooring piles shall be accomplished by pile driving, vibratory hammer, and/or drilled pier. Should the permittee and/or its contractor propose to utilize another type of installation or removal, such as jetting or drilled shaft construction, additional authorization from DCM shall be required [07J .0202(c); 07J .0405(a)].
- 6) The test piles may be left in place and shall be cut off below the mudline [07H .0208(a)(3)].
- 7) The authorized temporary mooring piles shall be removed in their entirety within 90 days after they are no longer needed, or within 30 days of written notification from DCM, whichever comes first, and disposed of at an approved high ground location. However, if this timeframe occurs while the in-water work moratorium of this permit modification is in effect, then the temporary mooring piles shall be removed in their entirety within 90 days of the moratorium end date. If a temporary mooring pile breaks during removal and cannot be removed in its entirety, it may be cut off flush with the bed of the water body, and DCM shall be notified of each occurrence within one working day [07H .0208(a)(2); 07H .0208(b)(10)(F)].
- 8) No sewage, whether treated or untreated, shall be discharged at any time from any vessels using the authorized facilities [07H .0208(a)(2)(B)].
- 9) This minor modification authorizes only the structures that are expressly and specifically set forth in the permit application, and/or depicted on the authorized workplan drawings. No other structures, whether floating or stationary, shall become a part of the facilities authorized by this Minor Modification without additional authorization from DCM. No non-water dependent uses of structures shall be conducted on, in or over Public Trust waters without permit modification [07J .0202(c); 07H .0208(a)(1)].

NOTE: The authorized activities will result in an increase of approximately 0.004 acres of permanent surface water impacts.

ADDITIONAL CONDITIONS

General

- 10) Throughout project construction and demolition, the permittee shall make every attempt to allow the same navigation that is currently possible in the Alligator River and adjacent public trust areas. If this is not possible, then adequate notice shall be provided to the public, including the managers of the Alligator River Marina and the Waterfront Access Marine Industry Fund (WAMI) site, that navigation will be limited during construction and/or demolition. The notice shall include an estimate of the amount of time that the limited navigation will occur [07H .0208(a)(2)(G)].
- 11) The permittee and/or its contractor shall contact the DCM Transportation Project Field Representative by phone at (252) 955-4191 or by email at greg.daisey@deq.nc.gov to request a preconstruction conference prior to project initiation [G.S 113A-120(b); 07J .0209(a)].
- 12) The permittee shall install and maintain at their expense any signal lights or signals prescribed by the U.S. Coast Guard, through regulation or otherwise, on the authorized facilities. At a minimum, permanent reflectors shall be attached to the temporary mooring piles in order to make them more visible during hours of darkness or inclement weather [G.S. 113-229(e); 07H .0208(a)(2)(G); 07J .0209(a)].
- 13) If it is determined that additional permanent and/or temporary impacts are necessary that are not shown on the attached workplan drawing or described in the authorized permit application, a permit modification and/or additional authorization from DCM shall be required. In addition, any changes in the approved plan may also require a permit modification and/or additional authorization from DCM. The permittee shall contact a representative of DCM prior to commencement of any such activity for this determination and any permit modification [07J .0201].
- 14) All conditions and stipulations of the active permit remain in force under this Minor Modification unless specifically altered herein [07J .0209(a)].

NOTE: This Minor Modification does not eliminate the need to obtain any additional permits, approvals or authorizations that may be required. This includes approval, if required, from the N.C. Division of Water Resources, the U.S. Army Corps of Engineers and the U.S. Coast Guard.

NOTE: This Minor Modification shall be attached to the original of Permit No. 136-23, which was issued on 11/30/23, and copies of both documents shall be readily available on site when a Division representative inspects the project for compliance.

NOTE: A minor modification application processing fee of \$100 was received by DCM for this project.

09/08/19

See Sheet 1A For Index of Sheets
See Sheet 1B For Conventional Symbols
See Sheet 1C-1 For Survey Control Sheet

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TYRRELL & DARE COUNTY

LOCATION: REPLACE BRIDGE #7 ON US 64 IN TYRRELL AND
DARE COUNTIES OVER THE ALLIGATOR RIVER

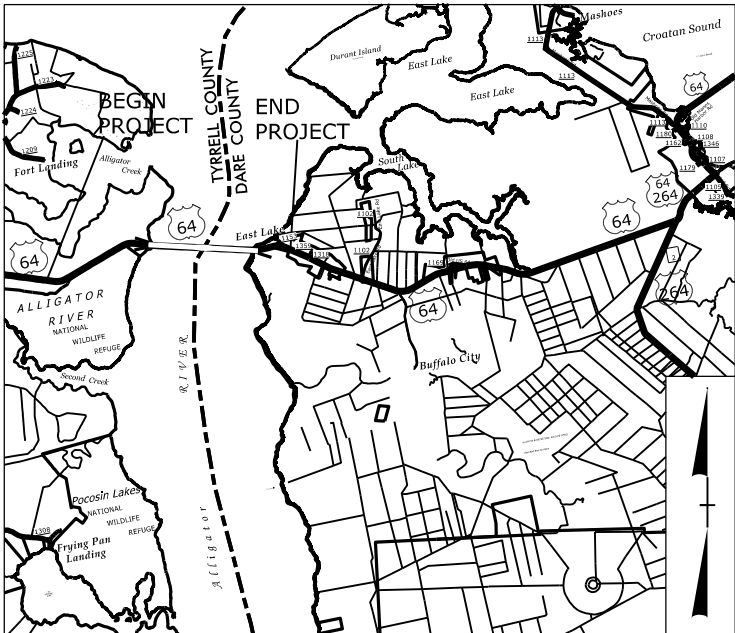
TYPE OF WORK: STRUCTURE, GRADING, PAVING, DRAINAGE

WETLAND AND SURFACE WATER IMPACTS PERMIT

PERMIT DRAWING
SHEET 1 OF 79

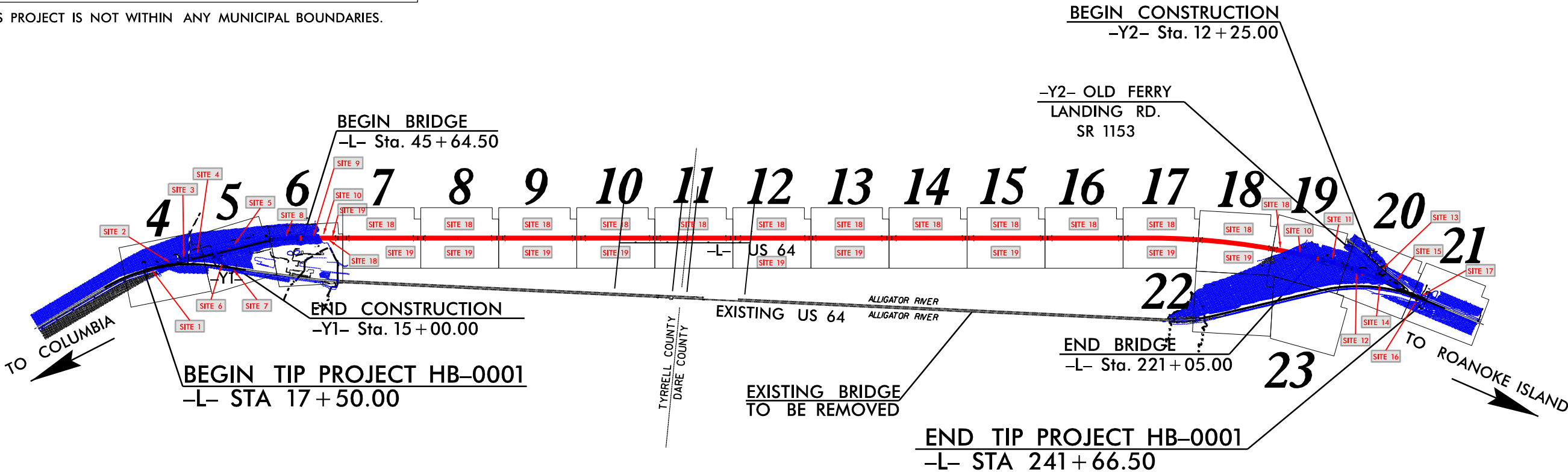
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	HB-0001	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
49475.1.1	NHPB-0001(156)	PE	
49475.2.1	NHPB-0001(156)	ROW	

ROW PLAN SET



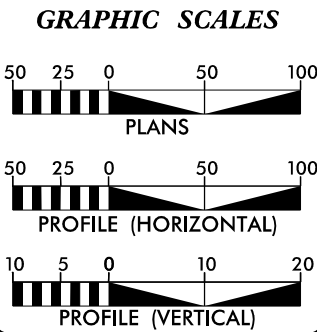
VICINITY MAP

THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.



CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.

CONTRACT:

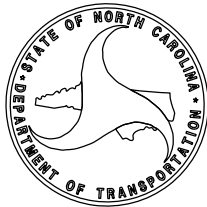


DESIGN DATA
ADT 2023 = 5734/9645**
ADT 2043 = 10400/13200**
K = 10 %
D = 60 %
T = 7 % *
V = 60 MPH
* TTST = 4% DUAL 3%
FUNC CLASS =
PRINCIPAL ARTERIAL
REGIONAL TIER
**WEEKDAY/WEEKEND

PROJECT LENGTH
TIP PROJECT HB-0001 ROADWAY LENGTH = 0.924 MILES
TIP PROJECT HB-0001 STRUCTURES LENGTH = 3.322 MILES
TIP PROJECT HB-0001 TOTAL PROJECT LENGTH = 4.246 MILES
NCDOT CONTACT: JOHN CONFORTI, REM
PROJECT MANAGER

Prepared In the Office of:
SUMMIT
SURVEY AND ENGINEERING SERVICES
FIRM NO. P-8339
2018 STANDARD SPECIFICATIONS
RIGHT OF WAY DATE: DECEMBER 16, 2022
LETTING DATE: OCTOBER 2024
NEIL J. DEAN, PE
PROJECT ENGINEER
FAITH E. JAHNKE, PE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER
SIGNATURE: _____ P.E.
ROADWAY DESIGN ENGINEER
SIGNATURE: _____ P.E.



28-DEC-2023 12:55
HB-0001-hyd-prm-tsh.dgn
patrik.hartnett

**MATCHLINE -L- STATION 52 + 50.00
(SEE SHEET 7)**








40 + 00.00
STATION -L-
MATCHLINE (SEE SHEET 5)

SITE 18
PERMANENT STREAM IMPACTS,
SEE PERMIT SHEET 42
Bent #6 Test Pile
Sta. 51+62.00

40' WIDE TRESTLE
FOR DEMOLITION
OF EXIST. BRIDGE,
EXTENDS TO 8FT
DEEP WATER

HARRY MCMULLAN FAMILY LTD PART
NO DEED

SEE SHEET 25
FOR -L- PROFILE


- | | |
|---|------------------------------------|
|  | SURFACE WATER IMPACTS (TEST PILES) |
|  | TEMPORARY WORK TRESTLE |
|  | FILL IN WETLAND |
|  | SURFACE WATER IMPACTS |
|  | MECHANIZED CLEARING (GRUBBING) |
|  | HAND CLEARING (NON-GRUBBING) |
|  | PAVEMENT REMOVAL |




REVISIONS

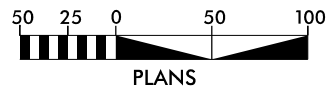
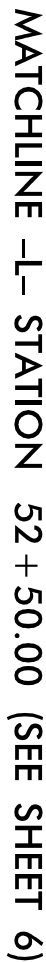
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HB-0001_Hyd-prm_psh-6.dgn

PERMIT DRAWING
SHEET 8 OF 79

 SURFACE WATER IMPACTS

 SURFACE WATER IMPACTS (TEST PILES)

6" DIAMETER CIRCULAR DRAINS
ON 12' CENTERS
FROM -L- STA. 51+78 TO -L- STA 213+96 LT.
FROM -L- STA. 51+78 TO -L- STA 213+96 RT.





SEE SHEET 25 FOR -L- PROFILE

REVISIONS

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PERMIT DRAWING
SHEET 10 OF 79

 SURFACE WATER IMPACTS

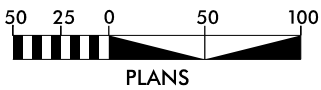
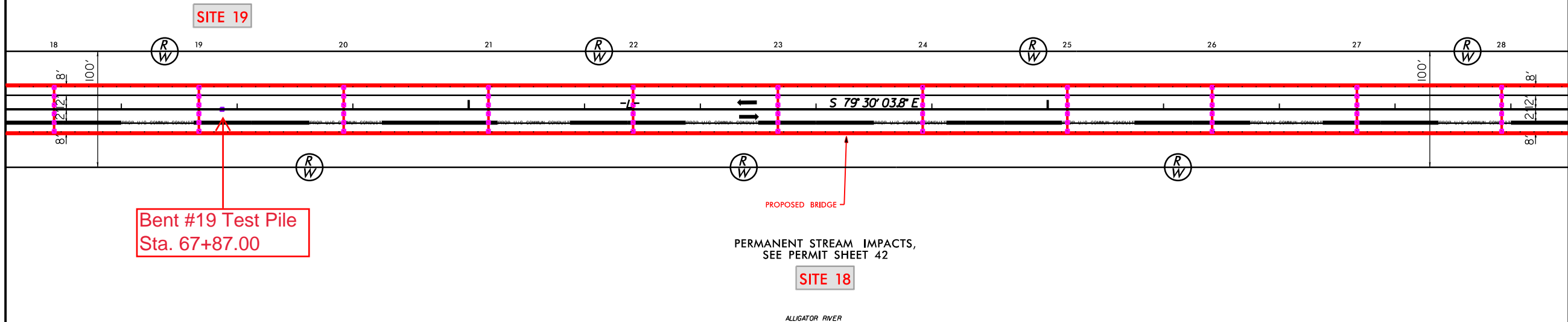
 SURFACE WATER IMPACTS (TEST PILES)

6" DIAMETER CIRCULAR DRAINS
ON 12' CENTERS
FROM -L- STA. 51+78 TO -L- STA 213+96 LT.
FROM -L- STA. 51+78 TO -L- STA 213+96 RT.

NAD 83/2011

MATCHLINE -L- STATION 66 + 00.00 (SEE SHEET 7)



**MATCHLINE -L- STATION 79 + 50.00
(SEE SHEET 9)**

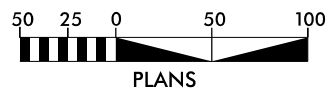
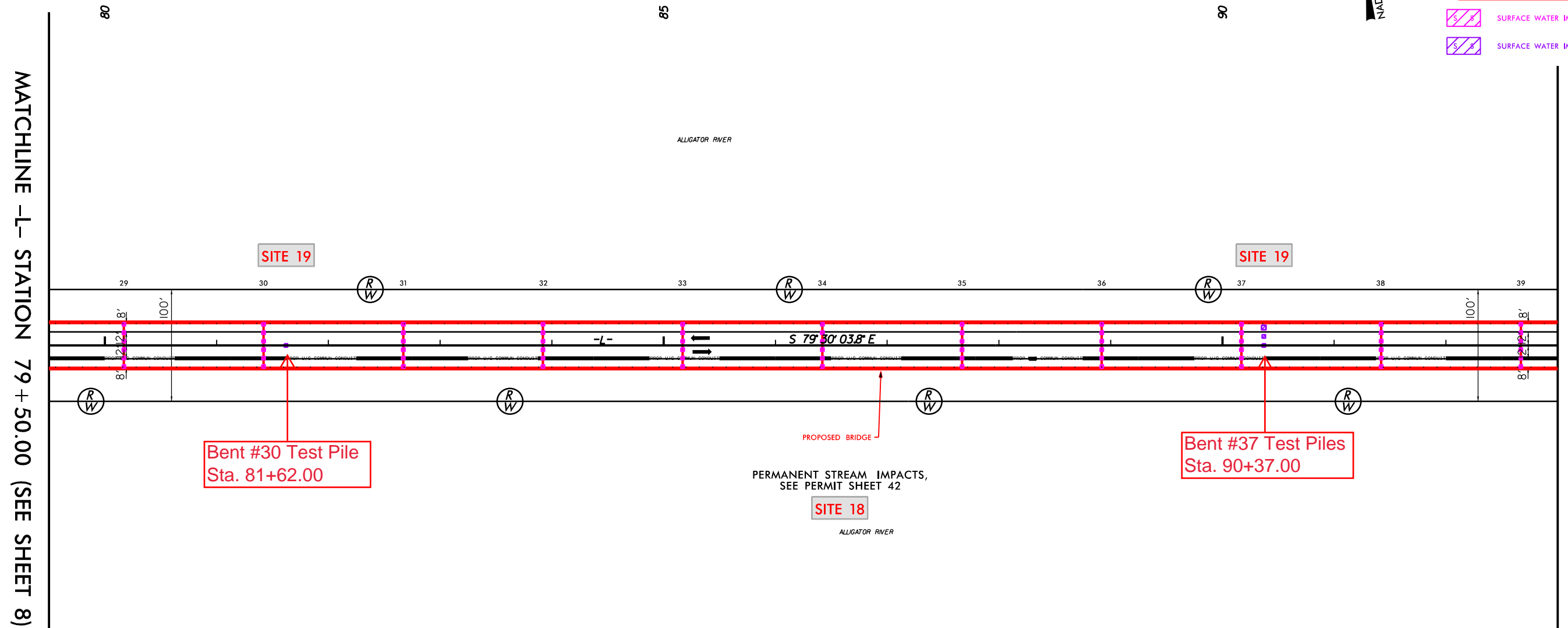


SEE SHEET 26 FOR -L- PROFILE

6" DIAMETER CIRCULAR DRAINS
ON 12' CENTERS
FROM -L- STA. 51+78 TO -L- STA 213+96 LT.
FROM -L- STA. 51+78 TO -L- STA 213+96 RT.

PERMIT DRAWING
SHEET 12 OF 79



	SURFACE WATER IMPACTS
	SURFACE WATER IMPACTS (TEST PILES)

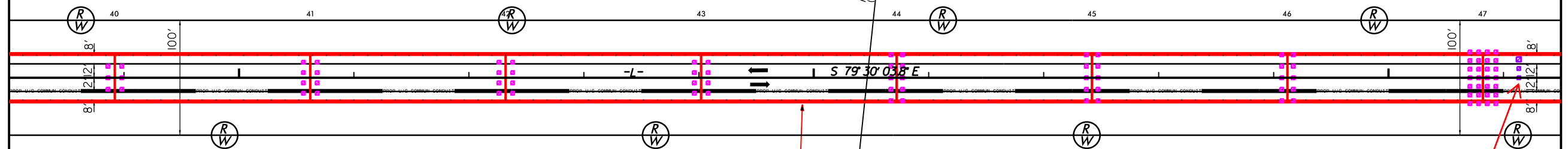
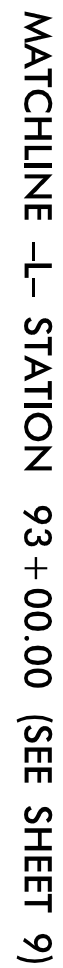


6" DIAMETER CIRCULAR DRAINS
ON 12' CENTERS
FROM -L- STA. 51+78 TO -L- STA 213+96 LT.
FROM -L- STA. 51+78 TO -L- STA 213+96 RT.

NAD 83/2011

PERMIT DRAWING
SHEET 14 OF 79

	SURFACE WATER IMPACTS
	SURFACE WATER IMPACTS (TEST PILES)

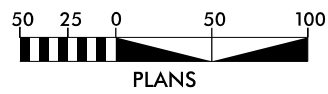


PROPOSED BRIDGE —

PERMANENT STREAM/ IMPACTS,
SEE PERMIT SHEET 42 & 43



SITE 18

Bent #47 Test Piles
Sta. 106+13.25

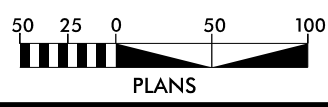
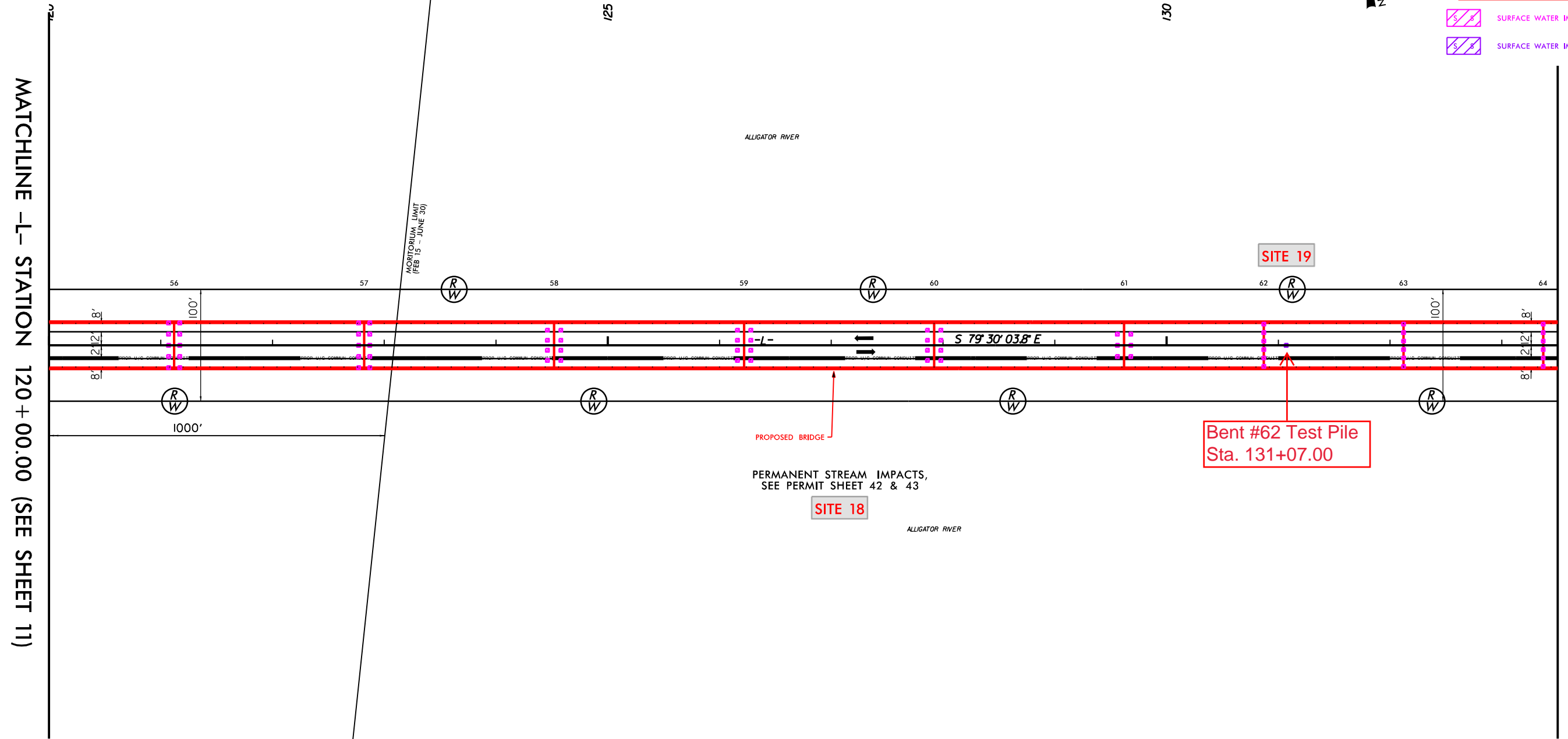


SEE SHEET 26 & 27 FOR -L- PROFILE

PERMIT DRAWING
SHEET 18 OF 79

	SURFACE WATER IMPACTS
	SURFACE WATER IMPACTS (TEST PILES)

6" DIAMETER CIRCULAR DRAINS
ON 12' CENTERS
FROM -L- STA. 51+78 TO -L- STA 213+96 LT.
FROM -L- STA. 51+78 TO -L- STA 213+96 RT.

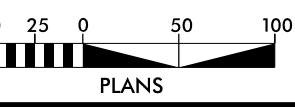


SEE SHEET 28 & 29 FOR -L- PROFILE


REVISIONS


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NAD 83/2011

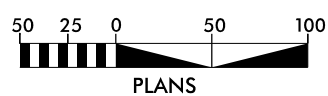


SEE SHEET 29 FOR -L- PROFILE

 SURFACE WATER IMPACTS

 SURFACE WATER IMPACTS (TEST PILES)

NAD 83/2011



SEE SHEET 30 FOR -L- PROFILE

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HB-0001_Hyd-prm-psh-28.dgn
patrick.bartnett

PERMIT DRAWING
SHEET 30 OF 79

SURFACE WATER IMPACTS

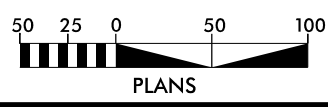
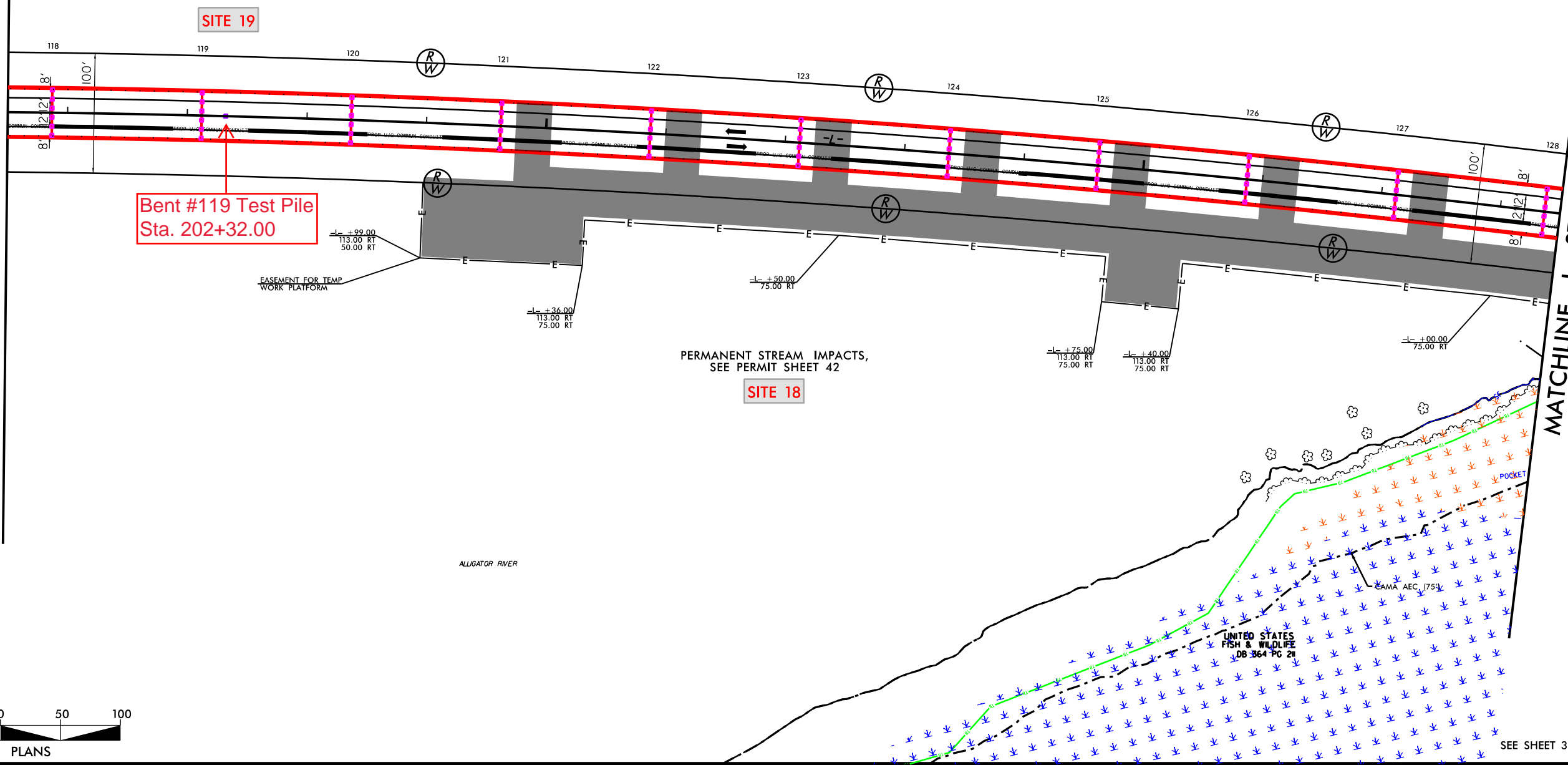
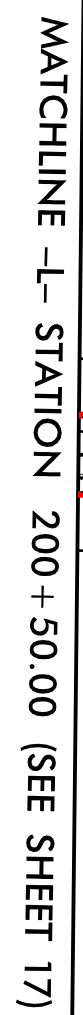
SURFACE WATER IMPACTS (TEST PILES)

TEMPORARY WORK TRESTLE

6" DIAMETER CIRCULAR DRAINS
ON 12' CENTERS
FROM -L- STA. 51+78 TO -L- STA 213+96 LT.
FROM -L- STA. 51+78 TO -L- STA 213+96 RT.

-L-

PI Sta 207+58.97
 $\Delta = 14^\circ 37' 40.0''$ (RT)
 $D = 0^\circ 28' 38.9''$
 $L = 3,063.63'$
 $T = 1,540.19'$
 $R = 12,000.00'$
SE = NC



SEE SHEET 31 & 32 FOR -L- PROFILE

[illegible]

*Rounded totals are sum of actual impacts

NOTES:

The following bridge bent impacts are in addition to the impact quantities shown in the table. Permanent linear stream impacts from bridge bents accounted for as longest bent length of 89 feet.

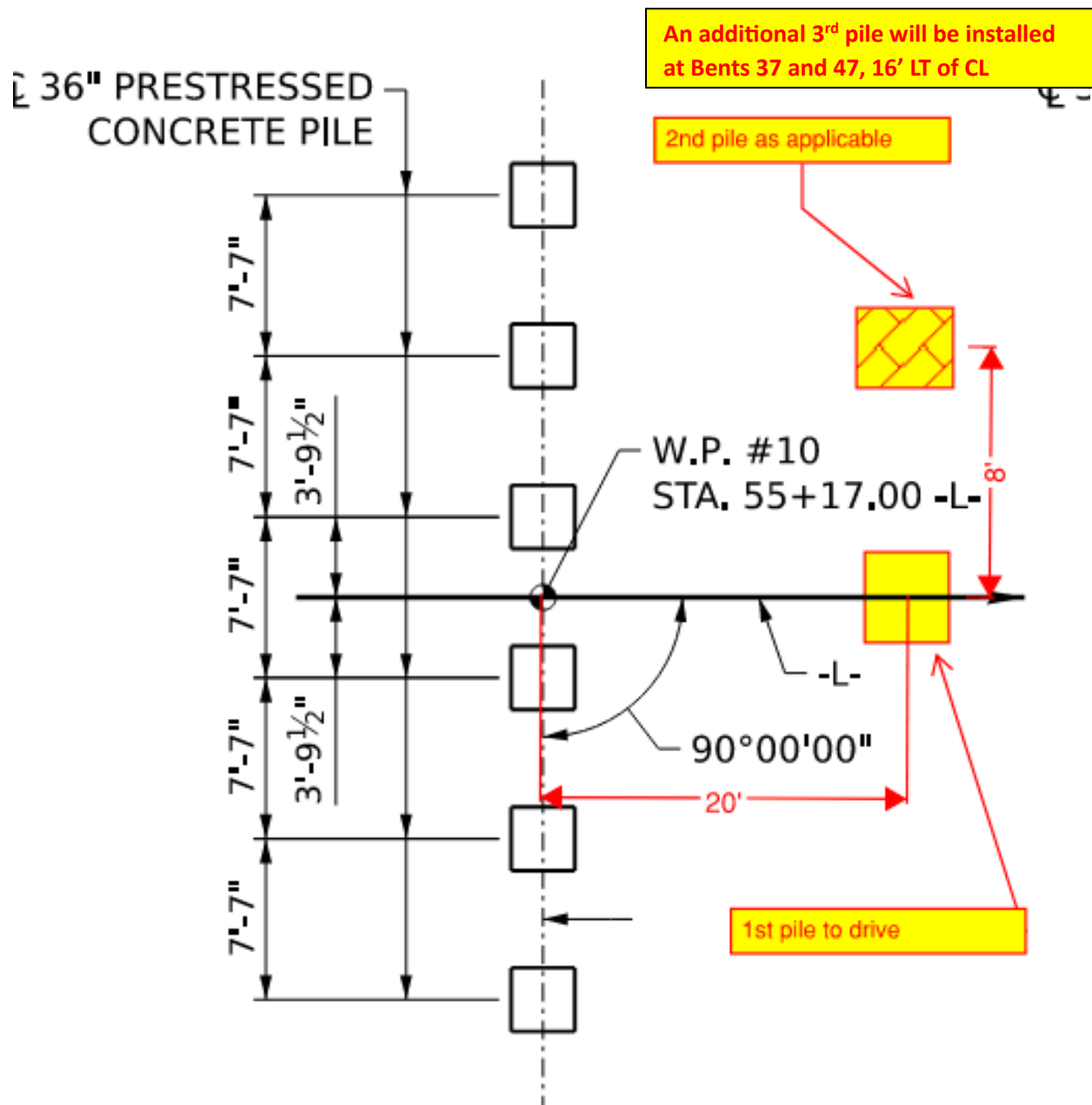
The following CAMA impacts are included in the impact quantities shown in the table. Permanent fill in CAMA wetlands total 0.026 acres. Mechanized Clearing impacts in CAMA wetlands total 0.028 acres. These impacts occur at Site 1.

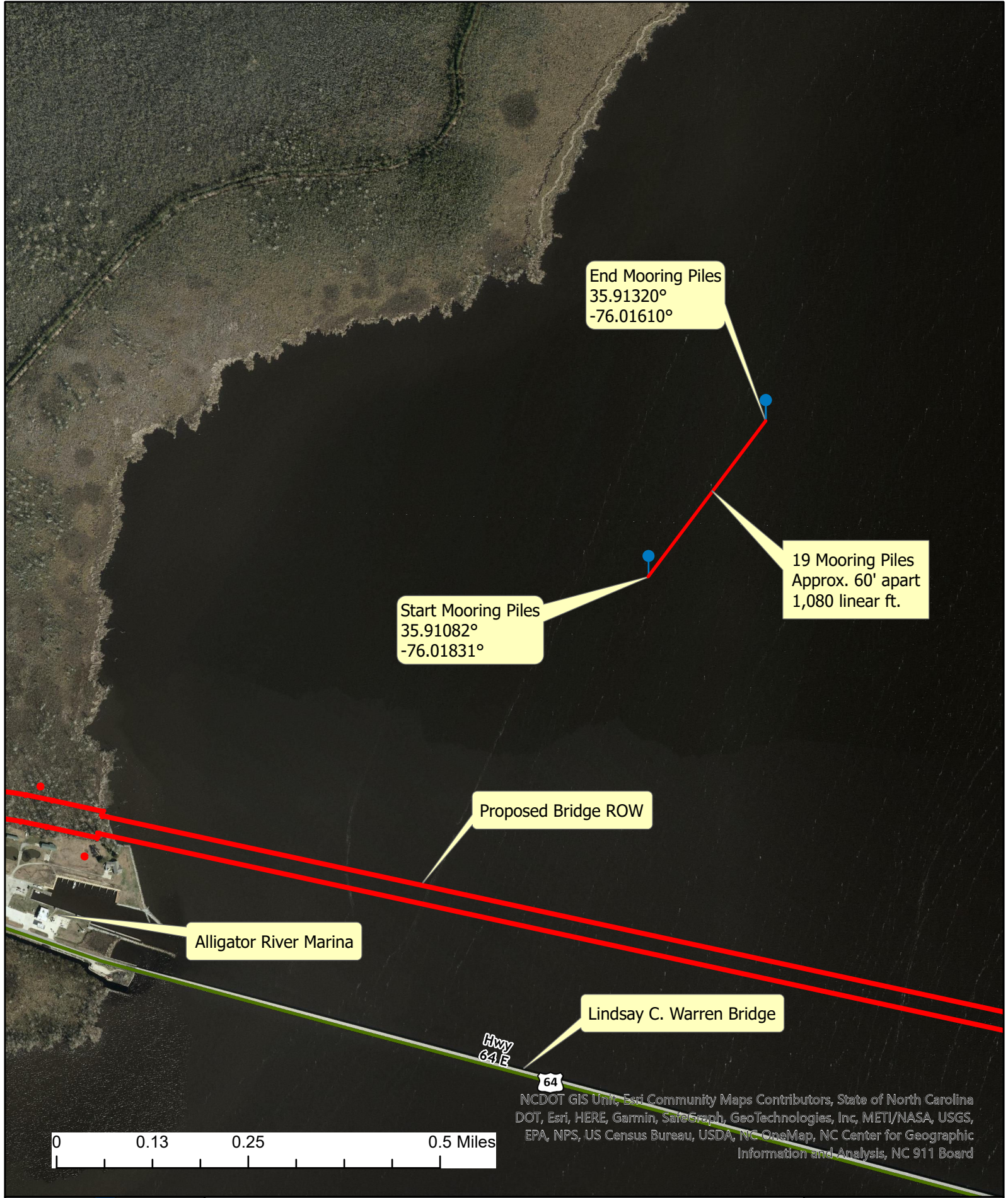
Please note, for sites 1, 3, 12, 16, 17 and 18 the "Surface Water" impacts are considered "Open Water" impacts and do not have an associated impact length.

Revised 2018 Feb

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
1/4/2024
TYRRELL/DARE COUNTIES
HB-0001
BRIDGE REPLACEMENT ON US-64 OVER ALLIGATOR
RIVER

Test Pile Detail



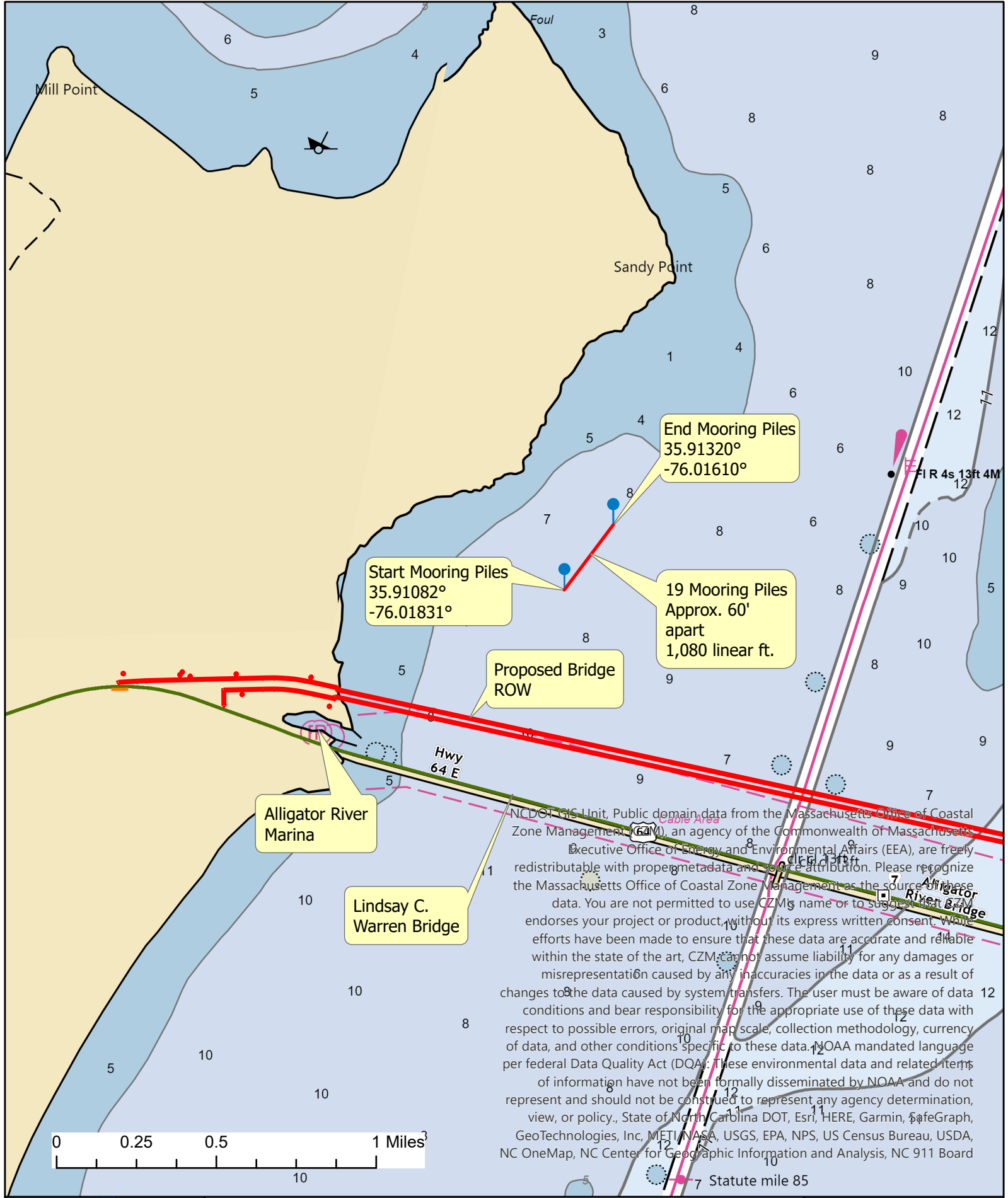


NCDOT GIS Unit, Esri Community Maps Contributors, State of North Carolina DOT, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, NC OneMap, NC Center for Geographic Information and Analysis, NC 911 Board

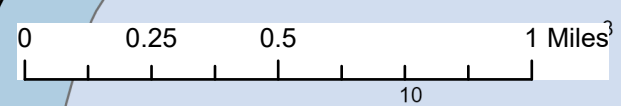


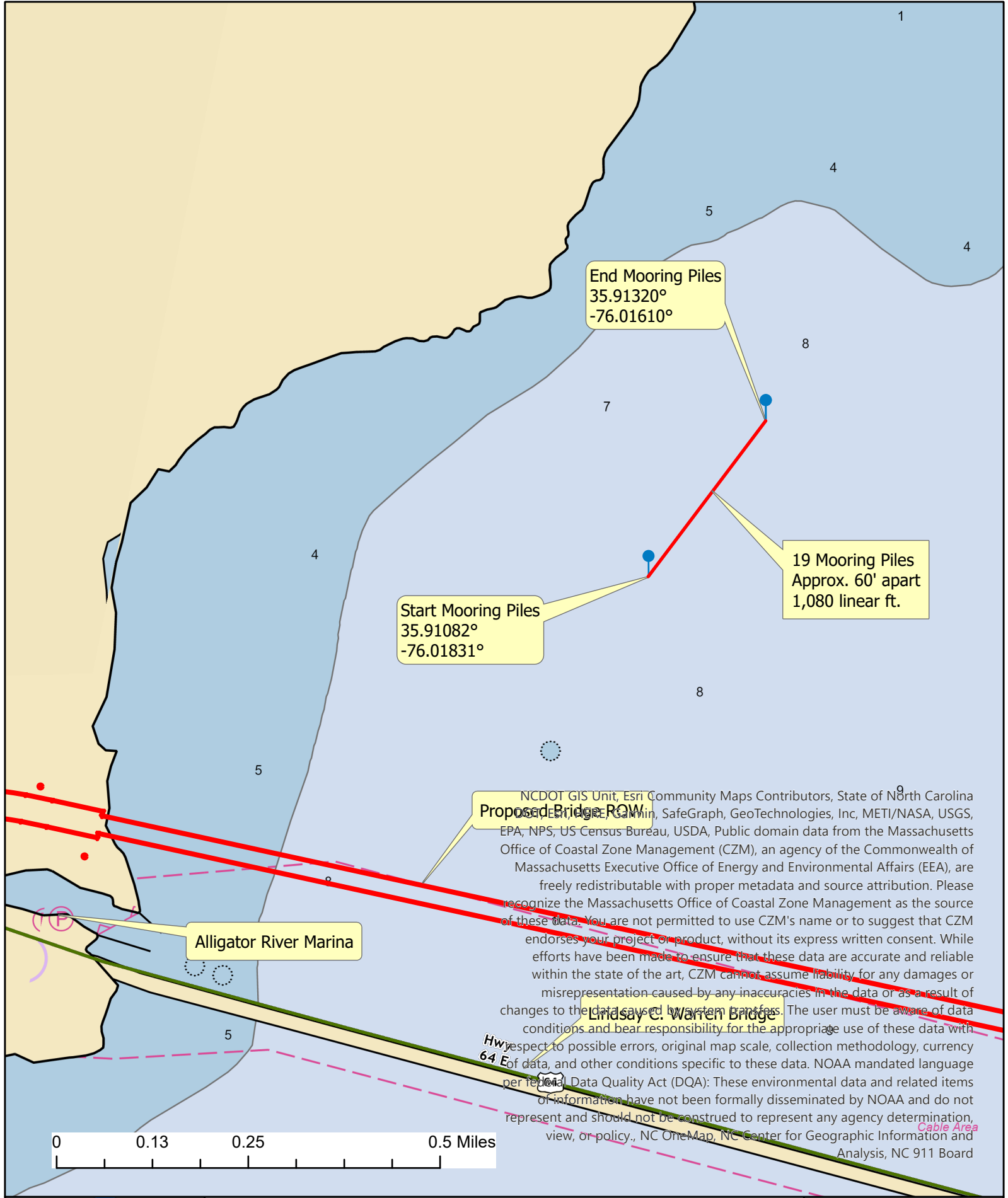
HB-0001 Alligator River Bridge Project
Proposed Mooring Pile Locations
Aerial Map

Date: 12/28/2023
Imagery: NCOneMap
Orthoimagery Latest
Drawn By: Paul Williams
Scale: 1:10,000



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HB-0001 Alligator River Bridge Project
Proposed Mooring Pile Locations
Nautical Map

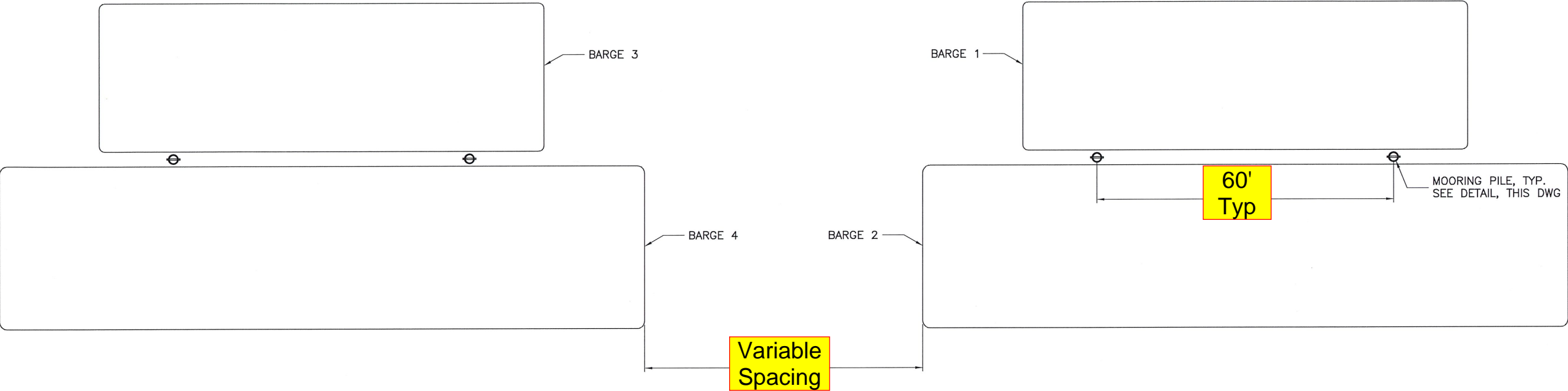
Date: 12/28/2023
Imagery: NOAA
Nautical Chart
Drawn By: Paul Williams
Scale: 1:10,000

NOTES:

1.) THE MOORING IS DESIGNED FOR MAX 8 TONS HORIZONTAL PULL AT TOP ON EACH PILE.

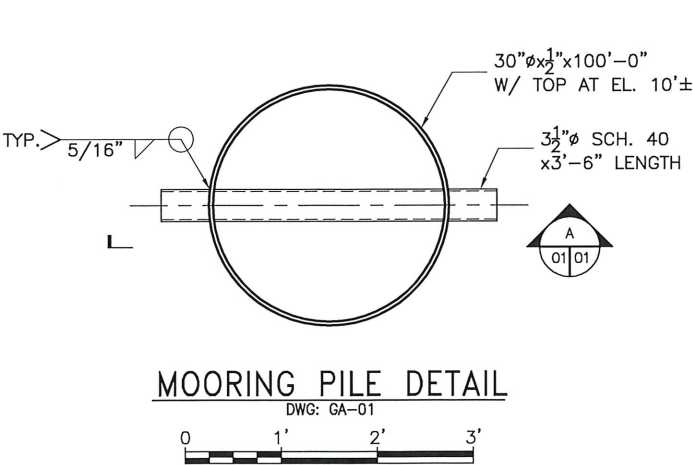
SPECIFICATIONS:

- MOORING PILE: GRADE 42 KSI MIN.
- WELDING ELECTRODES: E70XX PER AWS D1.1

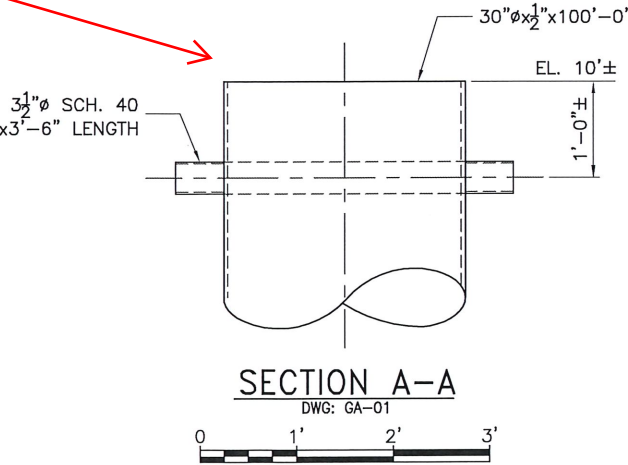


TEMPORARY MOORING – PLAN
N.T.S.

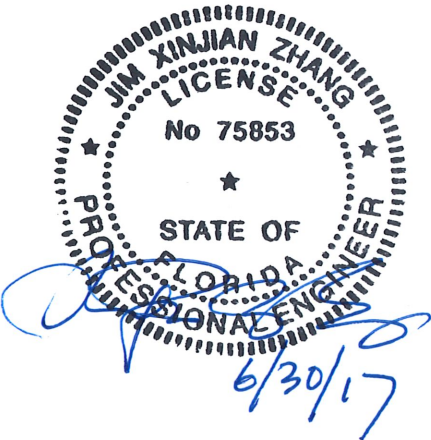
Top of Pile is 5' to 6' above water



MOORING PILE DETAIL



SECTION A-A



APPROVED FOR CONSTRUCTION
BY SKANSKA SE ENGINEERING DEPT

0	06/30/17	JXZ	DER	FOR CONSTRUCTION
A	09/12/16	JXZ	DER	FOR REVIEW
REV.	DATE	DESIGN	DRAWN	REMARKS
FLORIDA DEPARTMENT OF TRANSPORTATION ESCAMBIA COUNTY, FLORIDA				
SR 30 (US 98) PENSACOLA BAY BRIDGE REPLACEMENT PROJECT #40933415201 & 40933415202 GENERAL ARRANGEMENT TEMPORARY MOORING PLAN				
Skanska USA Civil Southeast Engineering Department 295 Bendix Rd. - Virginia Beach, VA 23452 Phone: 757-420-4140				
SCALE	JOB	DRAWING NUMBER		Approved
AS NOTED	04-2299	GA-01		JBH