



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

JOSH STEIN
GOVERNOR

J.R. "JOEY" HOPKINS
SECRETARY

January 30, 2025

MEMORANDUM TO: Division Environmental and Construction Units

FROM: Jason Dilday ECAP Eastern Region Team Lead
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 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 (dated 1/29/2025)	May 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]	May 14, 2026
NC Division of Coastal Management Coastal Area Management Act	CAMA Major Development Permit Modification of 11/30/2023 Permit	May 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/



DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, WILMINGTON DISTRICT
WILMINGTON REGULATORY OFFICE
69 DARLINGTON AVENUE
WILMINGTON NORTH CAROLINA 28403

January 29, 2025

Regulatory Division
SAW-2021-01091

Sent Via email: jldilday1@ncdot.gov

Jason Dilday
NCDOT
1598 Mail Service Center
Raleigh, North Carolina 27699-1598

Dear Mr. Dilday:

This letter is in response to the Pre-Construction Notification (PCN) you submitted to the Wilmington District, WRDA / Transportation Branch, on December 19, 2024, for a Department of the Army Nationwide permit (NWP) verification. This project has been assigned the file number SAW-2021-01091 and is known as NCDOT HB-0001 Alligator River Bridge. This file number should be referenced in all correspondence concerning this project.

A review of the information provided indicates that the proposed work would include the installation of 19 mooring piles and 3 heavy weather moorings on the east side of the Alligator River. The project area for this determination is illustrated on the enclosed site plans/maps. The project/review area is located in the Alligator River; approximately 0.7 miles north of the Alligator River Bridge near the eastern shore, at Latitude 35.901120 and Longitude -75.976550; east of the town of Columbia, Tyrrell County, North Carolina.

We have determined that the proposed work is authorized by Nationwide Permit #33 pursuant to authorities under Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. § 403). The proposed work must be accomplished in strict accordance with the general permit conditions, any regional conditions, the special conditions listed in this letter, the application materials, and the enclosed plans. If the extent of the project area and/or nature of the authorized impacts to waters are modified, a revised PCN must be submitted to this office for written approval before work is initiated. Any violation of permit conditions or deviation from your submitted plans may subject the permittee to enforcement action.

This verification is valid until March 14, 2026, unless prior to this date the subject NWP(s) is suspended, revoked, or is modified such that the activity no longer complies with the terms and conditions of this NWP. If you commence or are under contract to commence this activity before the date that the relevant NWP is modified or revoked,

you will have 12 months from the date of the modification or revocation of the NWP to complete the activity under the present terms and conditions of this NWP.

Project Specific 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.

This NWP verification does not preclude the necessity to obtain any other Federal, State, or local permits, licenses, and/or certifications, which may be required.

If you have any questions related to this verification or have issues accessing documents referenced in this letter, please contact Kyle Barnes, Transportation Project Manager of the WRDA at 910-251-4584, by mail at the above address, or by email at kyle.w.barnes@usace.army.mil. Please take a moment to complete our customer satisfaction survey located at <https://regulatory.ops.usace.army.mil/customer-service-survey/>.

Sincerely,

A handwritten signature in black ink that reads "M. Scott Jones". The signature is written in a cursive, flowing style.

M. Scott Jones, PWS
WRDA / Transportation Branch Chief
USACE - Wilmington District

Compliance Certification Form

File Number: SAW-2021-01091

County: Tyrrell

Permittee: NCDOT, Jason Dilday

Project Name: NCDOT HB-0001 Alligator River Bridge

Date Verification Issued: 1/23/2025

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
WRDA
2407 West 5th Street
Washington, North Carolina 27889
or
kyle.w.barnes@usace.army.mil**

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, and mitigation (if applicable), authorized by the above referenced permit has been completed in accordance with the terms and conditions of the said permit including any general or specific conditions.

Date Authorized Work Started: _____ **Completed:** _____

Describe any deviations from permit (attach drawing(s) depicting the deviations):

***Note: The description of any deviations on this form does not constitute approval by the Corps.**

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

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

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 12/20/2024, including the attached workplan drawings (4): 3 dated 12/19/24; and 1 dated 12/13/24.

This permit, issued on January 13, 2025, 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 19 additional temporary 30-inch steel pipe mooring piles for securing barges in place for bridge construction. The piles shall be spaced approximately 60 feet apart for a total distance of approximately 1,080 linear feet; (2) and use of 3 temporary heavy weather mooring anchorages with 30,000 pound anchors, attached to a mooring chain, line and buoy, for securing barges in the event of severe weather. The radius of each heavy weather mooring will be a maximum of 500 feet, all as depicted on the attached workplan drawings. No other structures, whether floating or stationary, shall become a part of the authorized facilities 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. [07H .0208(a)(1); 07J .0202; 07J .0202(c)].
- 2) No additional temporary and/or permanent impacts to wetlands are authorized by this permit modification without prior approval from DCM. [07J .0202(c)].

(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.



for Tancred Miller, 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) The installation and removal of the piles shall be accomplished by pile driving and/or vibratory hammer. 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)].
- 5) The authorized temporary mooring piles and heavy weather mooring anchorages 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. However, if this timeframe occurs while the in-water work moratorium of this permit modification is in effect, then the temporary mooring piles and heavy weather mooring anchorages shall be removed in their entirety within 90 days of the moratorium end date. If a temporary mooring pile is unable to 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)].
- 6) Barges shall be utilized only in areas of sufficient depth such that the barges avoid contact with the bottom and do not rest on the bottom during periods of low water. [07J .0201].
- 7) No sewage, whether treated or untreated, shall be discharged at any time from any vessels using the authorized facilities. [07H .0208(a)(2)(B)].
- 8) The moorings, anchorages and attached vessels shall not interfere with the access of any riparian owner nor shall it block riparian access by blocking channels, deep water, etc. which allows riparian access. [07H .0208(b)(10)(B)(i)].
- 9) The permittee and/or its contractor shall contact the DCM Transportation Project Field Representative by phone at (252) 948-3855 or by email at Lee.cannady@deq.nc.gov to request a preconstruction conference prior to project initiation. [G.S 113A-120(b); 07J .0209(a)].
- 10) The permittee shall install and maintain at their expense any signal lights or signals prescribed by the U.S. Coast Guard and the N.C. Wildlife Resources Commission, through regulation or otherwise, on the authorized facilities in order to make them more visible during hours of darkness or inclement weather. For further information, the permittee should contact the U.S. Coast Guard Marine Safety Office. [G.S. 113-229(a); 07H .0208(a)(2)(G); 07J .0209(a)].
- 11) All conditions and stipulations of the active permit remain in force under this Minor Modification unless specifically altered herein. [07J .0209(a)].

ADDITIONAL CONDITIONS

- 12) If it is determined that additional permanent and/or temporary impacts are necessary that are not shown on the attached workplan drawings or described in the authorized permit application, a permit modification and/or additional authorization from DCM may 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].

General

NOTE: A CAMA/Dredge and Fill Permit is a determination that the proposed development meets the CAMA/Dredge and Fill laws and CRC's rules for coastal development. It is not a determination of private property ownership or an authorization to trespass onto property owned by someone other than the Permittee.

NOTE: This permit action may be appealed by the permittee or other qualified persons within twenty (20) days of the issuing date. Any development authorized under this permit that occurs prior to the expiration of the twenty (20) day appeal period or completion of an appeal process, shall be done at the permittee's risk.

NOTE: It is strongly recommended that the permittee exercise all available precautions in the day-to-day operation to prevent waste from entering the adjacent waters. Such discharge, either directly or indirectly, to adjacent waters could contravene state water quality standards, thereby violating state law.

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/or 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, as well as the Minor Modification which was issued on 1/19/24, and copies of all 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.

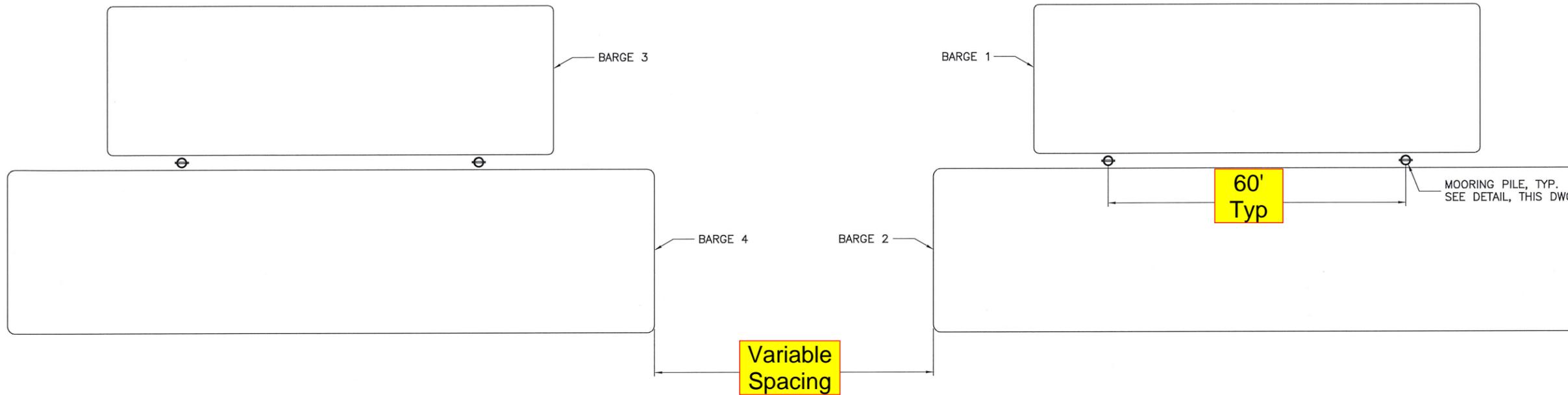
12/19/2024

NOTES:

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

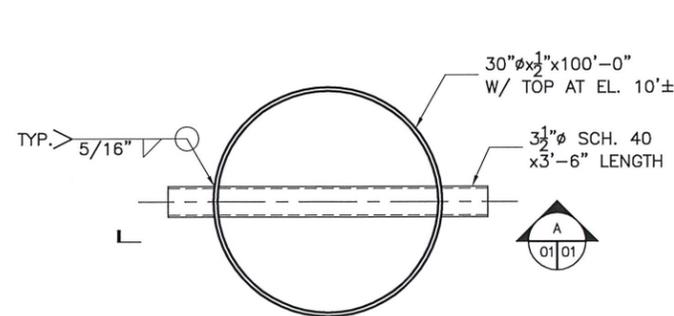
SPECIFICATIONS:

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

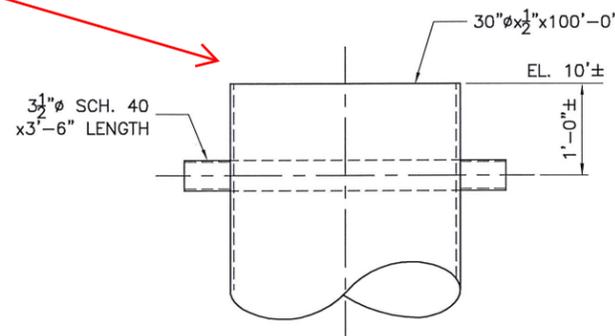


TEMPORARY MOORING - PLAN
N.T.S.

Top of Pile at least 5' to 6' above water



MOORING PILE DETAIL
DWG: GA-01



SECTION A-A
DWG: GA-01



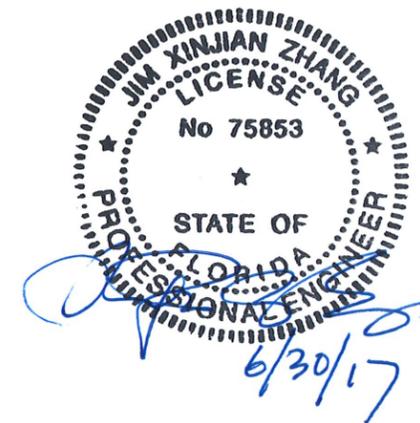
APPROVED FOR CONSTRUCTION
BY SKANSKA SE ENGINEERING DEPT

REV.	DATE	DESIGN	DRAWN	REMARKS
0	06/30/17	JXZ	DER	FOR CONSTRUCTION
A	09/12/16	JXZ	DER	FOR REVIEW

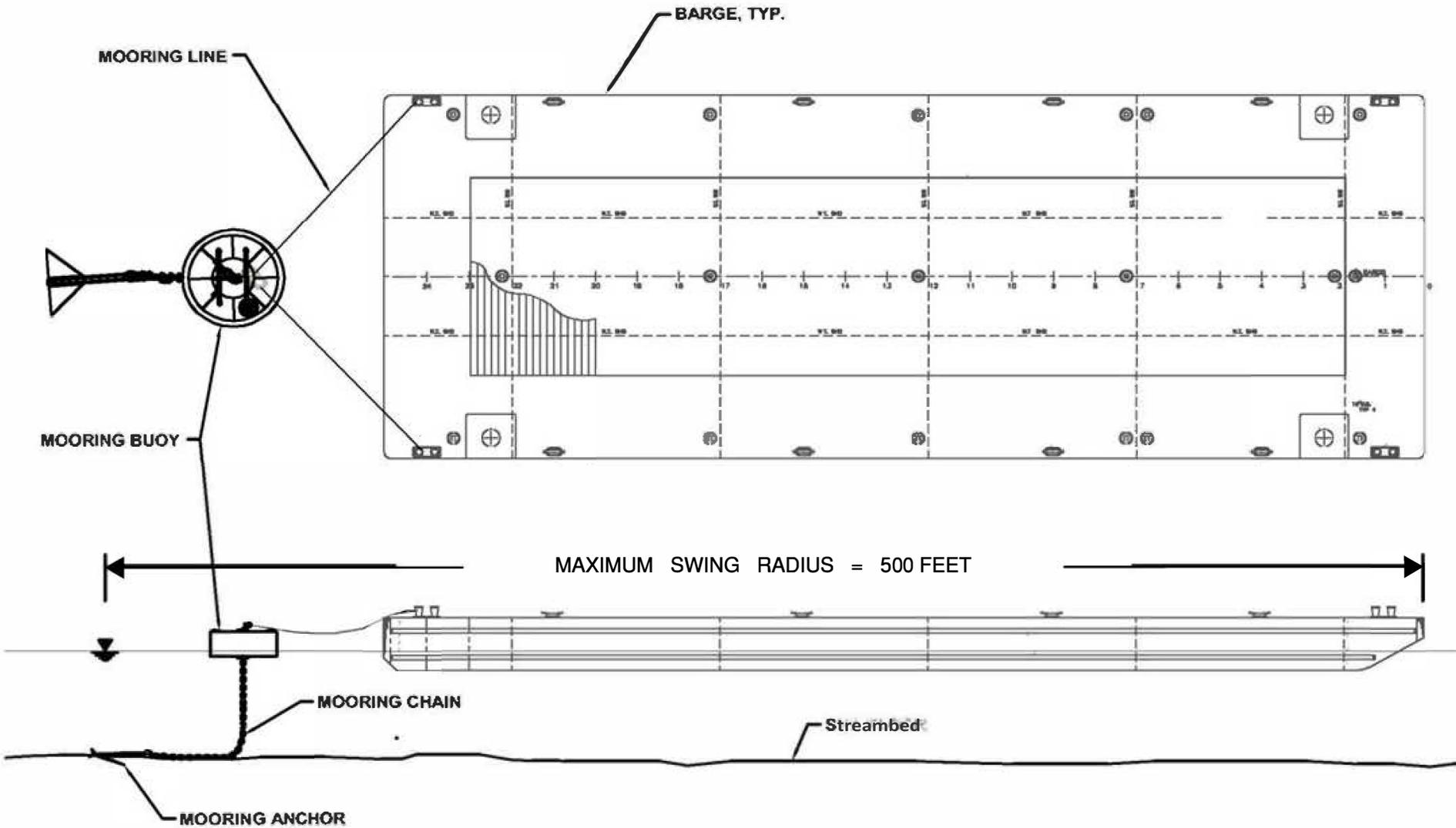
FLORIDA DEPARTMENT OF TRANSPORTATION
 ESCAMBIA COUNTY, FLORIDA
 SR 30 (US 98) PENSACOLA BAY BRIDGE REPLACEMENT
 PROJECT #40933415201 & 40933415202
 GENERAL ARRANGEMENT
 TEMPORARY MOORING PLAN

Skanska USA
 Civil Southeast Engineering Department
 295 Bendix Rd. - Virginia Beach, VA 23452
 Phone: 757-420-4140

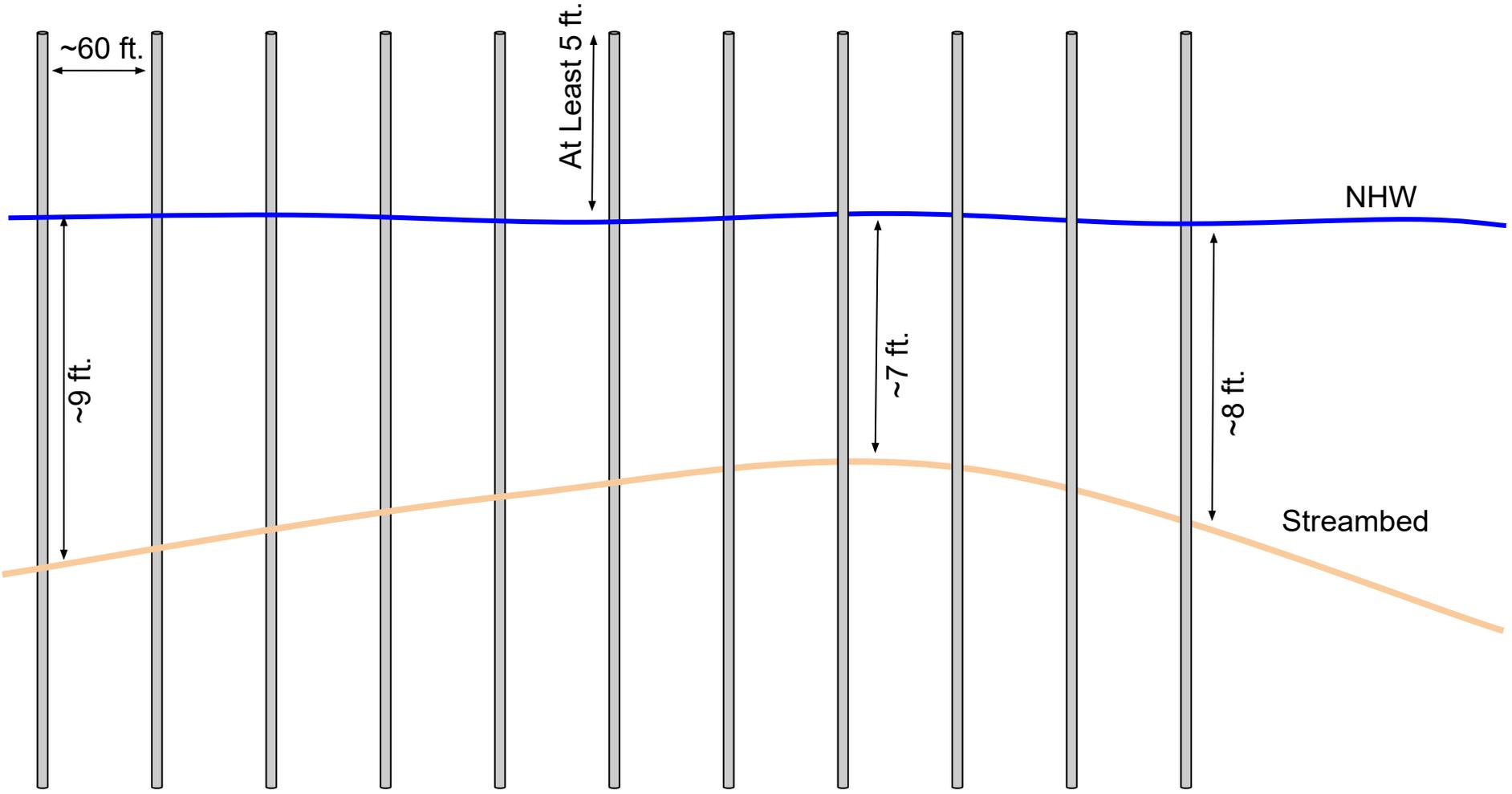
SCALE	JOB	DRAWING NUMBER	Approved
AS NOTED	04-2299	GA-01	JBH



TYPICAL MOORING BUOY CONFIGURATION



1,080-foot long Mooring Pile Alignment
(Nineteen 30-inch steel pipe piles)



southwest
end of line

*(piles driven to
secure depth - will
vary based on
water depth)*

northeast
end of line

Not to Scale
Not All Piles Shown

**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.**

Monte Matthew

2024.01.26
13:18:44
-05'00'

Corps Regulatory Official: _____ 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

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

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.

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	

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TYRRELL & DARE COUNTY

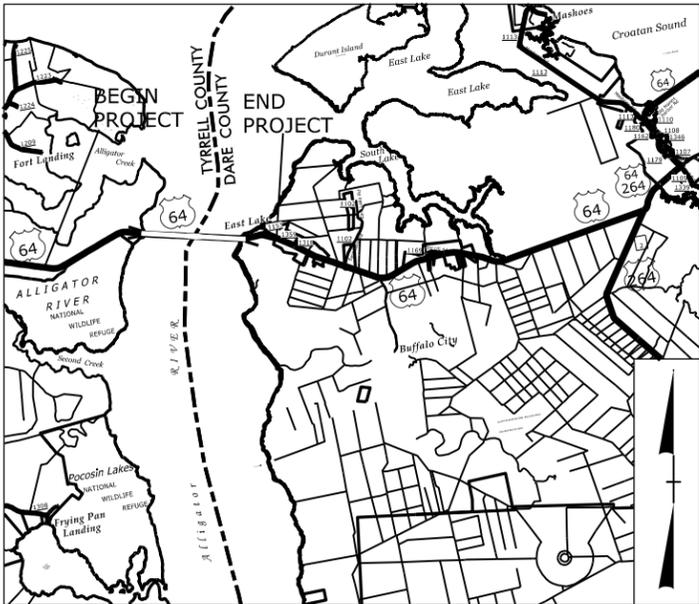
LOCATION: REPLACE BRIDGE #7 ON US 64 IN TYRRELL AND DARE COUNTIES OVER THE ALLIGATOR RIVER

TYPE OF WORK: STRUCTURE, GRADING, PAVING, DRAINAGE

WETLAND AND SURFACE WATER IMPACTS PERMIT

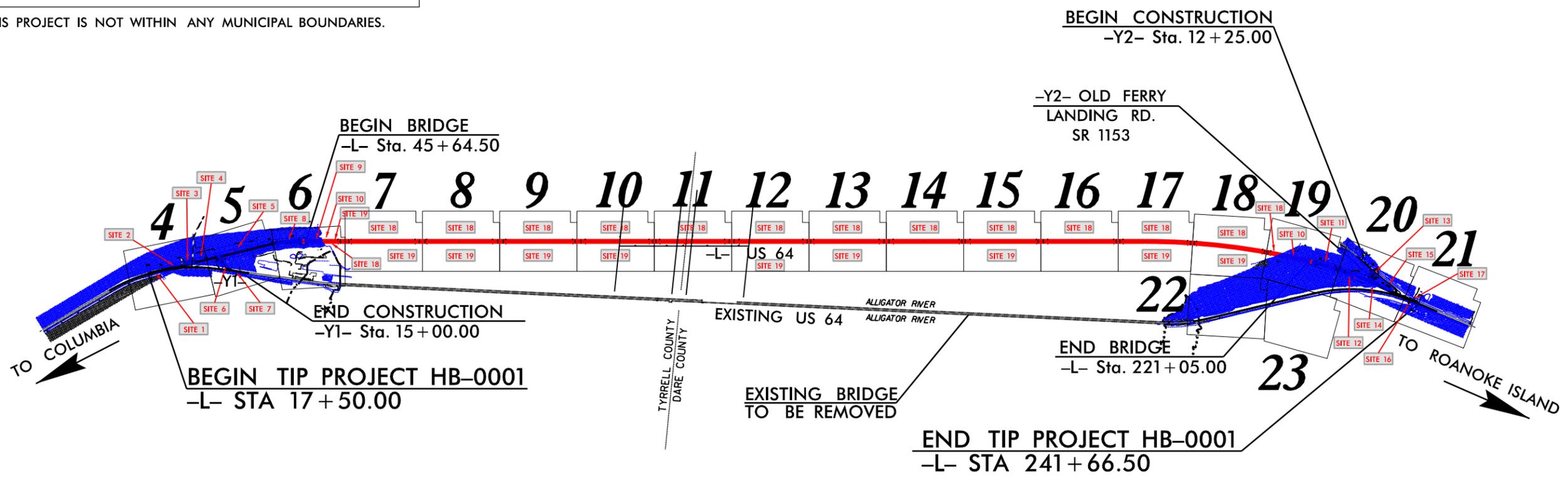
PERMIT DRAWING SHEET 1 OF 79

ROW PLAN SET



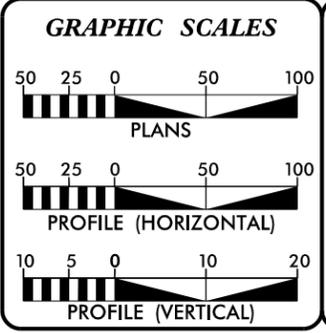
VICINITY MAP

THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.



TIP PROJECT: HB-0001

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:

320 Executive Ct.
Hillsborough, NC 27278-8551
Voice: (919) 732-3883
Fax: (919) 732-6776
www.summitde.net

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_perm_tsh.dgn
patrik.hartrnett

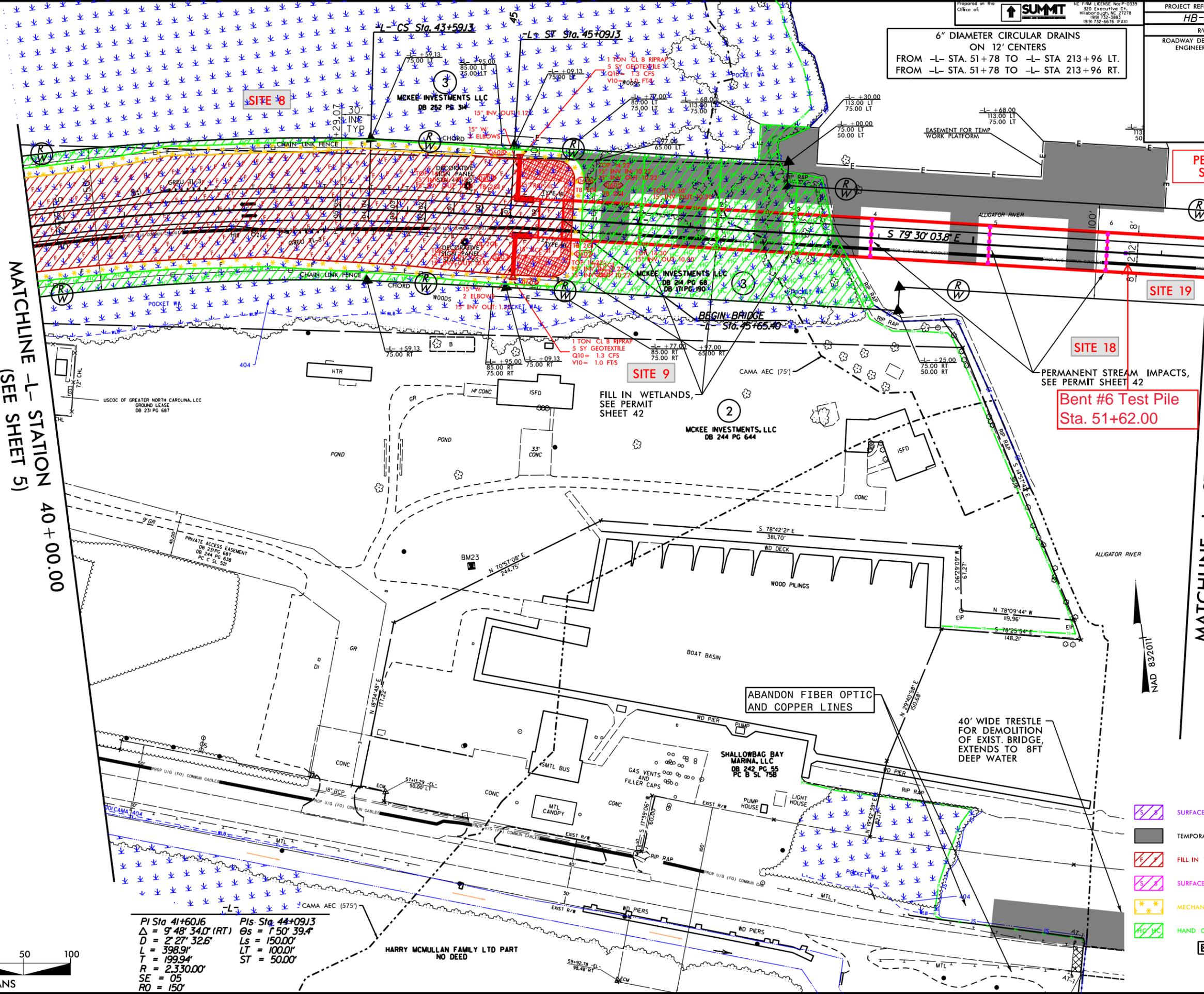
8/17/99

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 6 OF 78

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

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



REVISIONS

28-DEC-2023 12:55 -ash- 6.dgn



PI Sta 41+60J6
 $\Delta = 9' 48' 34.0''$ (RT)
 $D = 2' 27' 32.6''$
 $L = 398.91'$
 $T = 199.94'$
 $R = 2,330.00'$
 $SE = 05$
 $RO = 150'$

PIs Sta 44+09J3
 $\Theta s = 1' 50' 39.4''$
 $Ls = 150.00'$
 $LT = 100.00'$
 $ST = 50.00'$

HARRY MCMULLAN FAMILY LTD PART NO DEED

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

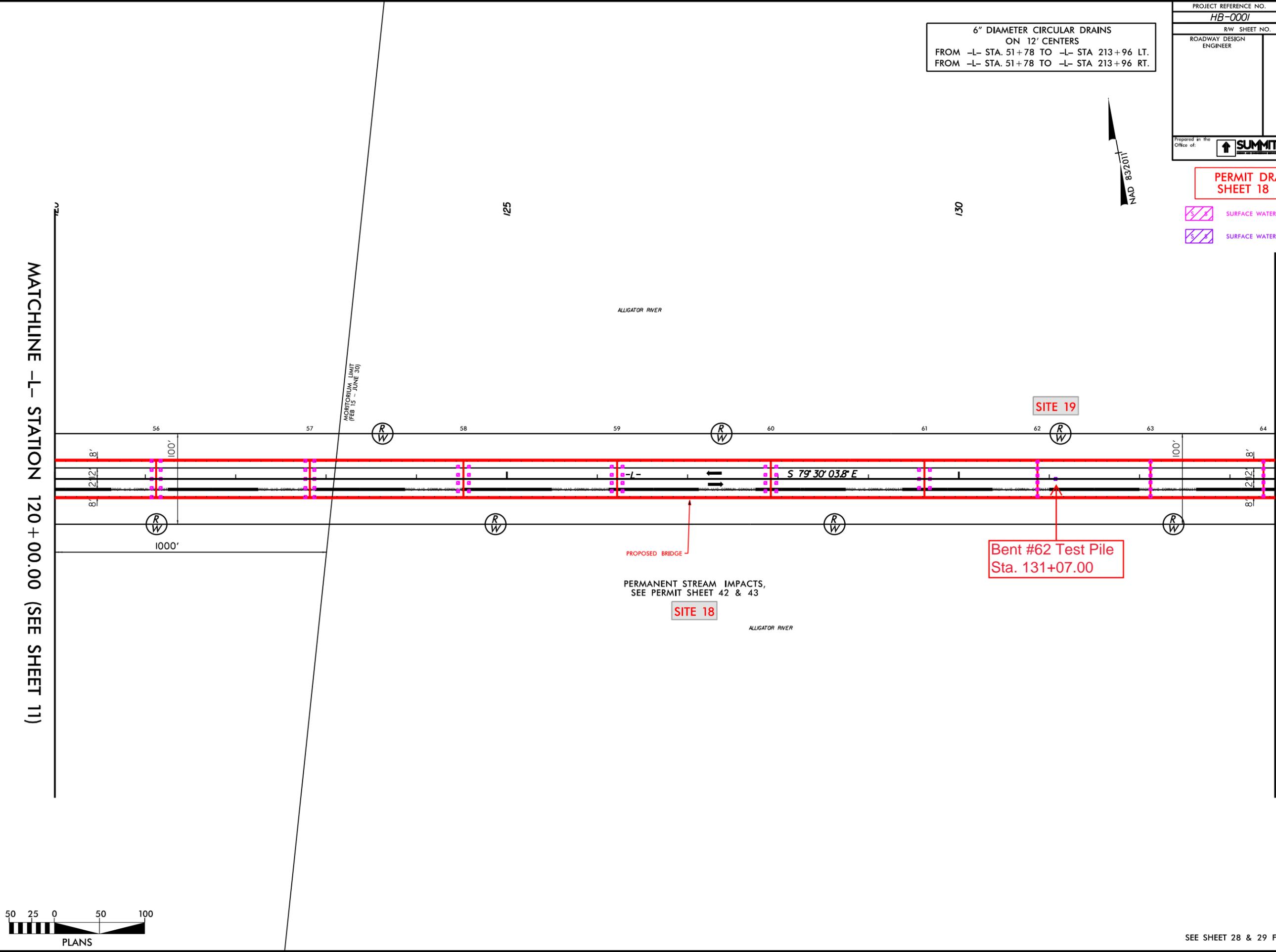
SEE SHEET 25 FOR -L- PROFILE

PROJECT REFERENCE NO. HB-0001	SHEET NO. 12
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Prepared in the Office of: SUMMIT <small>NC FIRM LICENSE Nos P-0539 320 Executive Ct. Hillsborough, NC 27278 (919) 752-3883 (919) 752-6676 (FAX)</small>	

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 18 OF 79**

-  SURFACE WATER IMPACTS
-  SURFACE WATER IMPACTS (TEST PILES)



MATCHLINE -L- STATION 120+00.00 (SEE SHEET 11)

MATCHLINE -L- STATION 133+50.00 (SEE SHEET 13)

REVISIONS

8/17/99

02-Jan-2024 10:19
C:\p\0001\hb-0001\psh-18.dgn
psh-18.dgn



SEE SHEET 28 & 29 FOR -L- PROFILE

PROJECT REFERENCE NO. HB-0001	SHEET NO. 13
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Prepared in the Office of: SUMMIT <small>NC FIRM LICENSE Nos P-0339 320 Executive Ct. Hillsborough, NC 27278 (919) 752-3883 (919) 752-6676 (FAX)</small>	

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.

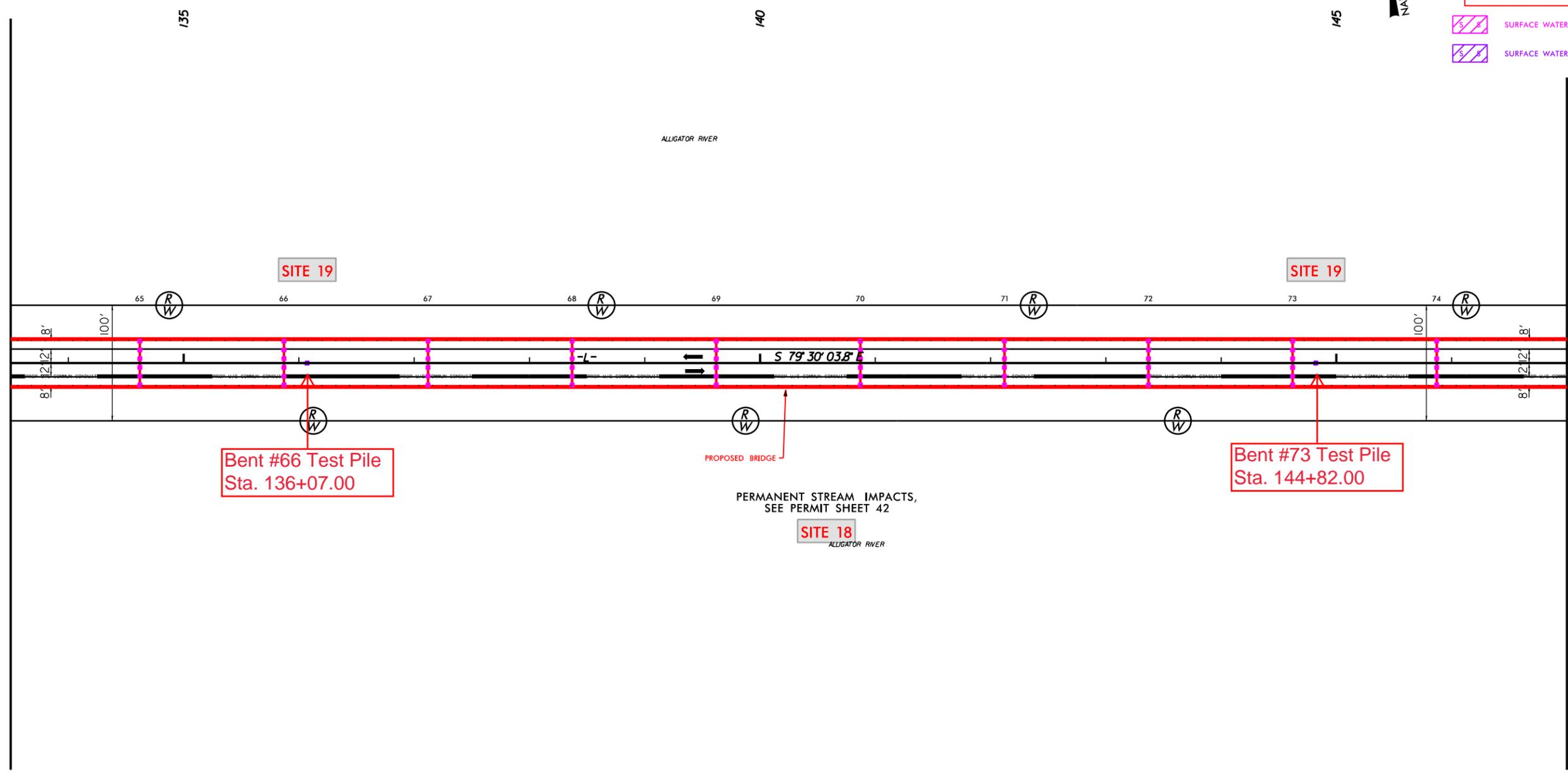


**PERMIT DRAWING
SHEET 20 OF 79**

- SURFACE WATER IMPACTS
- SURFACE WATER IMPACTS (TEST PILES)

MATCHLINE -L- STATION 133+50.00 (SEE SHEET 12)

MATCHLINE -L- STATION 147+00.00 (SEE SHEET 14)



Bent #66 Test Pile
Sta. 136+07.00

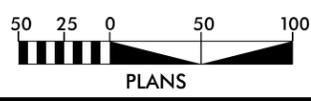
Bent #73 Test Pile
Sta. 144+82.00

PERMANENT STREAM IMPACTS,
SEE PERMIT SHEET 42
SITE 18
ALLIGATOR RIVER

REVISIONS

8/17/99

28-DEC-2023 12:56
28-0001-2023-12-56-20.dgn
28-0001-2023-12-56-20.dgn



SEE SHEET 29 FOR -L- PROFILE

PROJECT REFERENCE NO. HB-0001	SHEET NO. 16
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Prepared in the Office of: SUMMIT <small>NC FIRM LICENSE Nos P-0339 320 Executive Ct. Hillsborough, NC 27278 (919) 752-3883 (919) 752-6676 (FAX)</small>	

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.

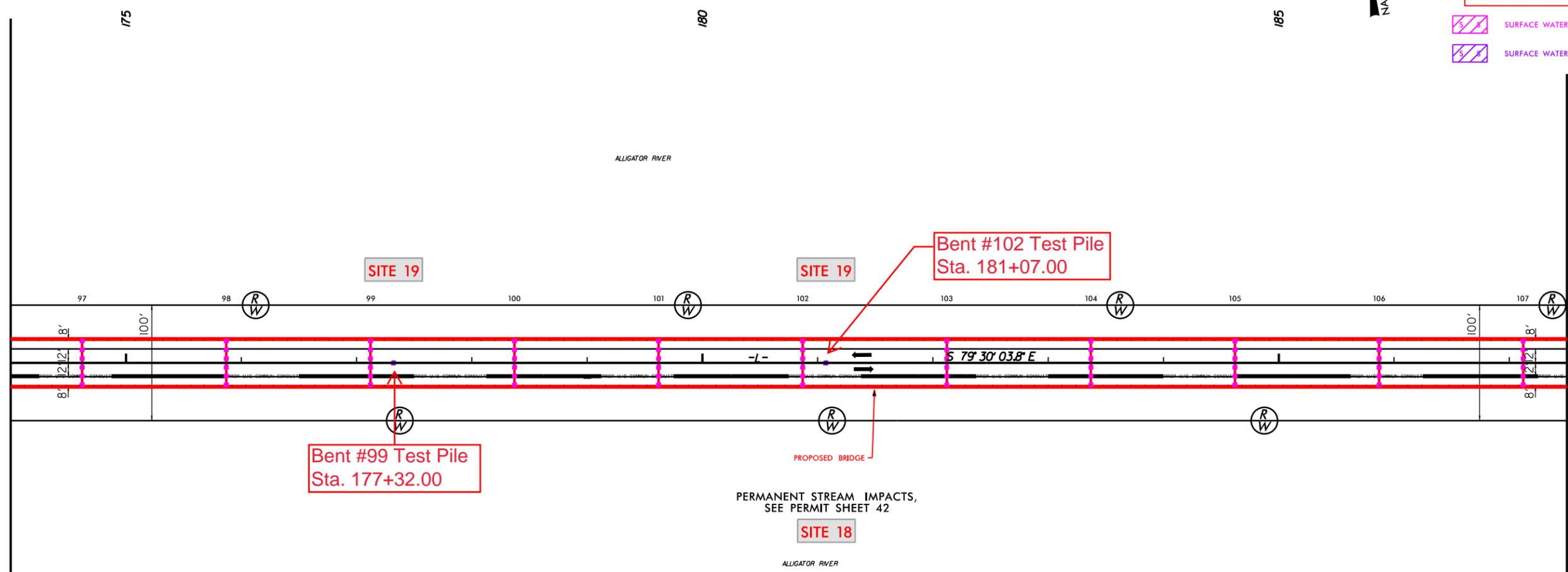
**PERMIT DRAWING
SHEET 26 OF 79**

-  SURFACE WATER IMPACTS
-  SURFACE WATER IMPACTS (TEST PILES)



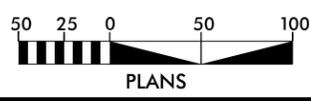
MATCHLINE -L- STATION 174+00.00 (SEE SHEET 15)

MATCHLINE -L- STATION 187+50.00 (SEE SHEET 17)



PERMANENT STREAM IMPACTS,
SEE PERMIT SHEET 42

ALLIGATOR RIVER



SEE SHEET 30 & 31 FOR -L- PROFILE

REVISIONS

8/17/99

28-DEC-2023 12:56
28-0001-2023-12-26.dgn
28-0001-2023-12-26.dgn

PROJECT REFERENCE NO. HB-0001	SHEET NO. 18
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Prepared in the Office of:	
	
<small>NC FIRM LICENSE Nos P-0339 320 Executive Ct. Hillsborough, NC 27278 (919) 752-3883 (919) 752-6676 (FAX)</small>	

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)
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 $L = 3,063.63'$
 $T = 1,540.19'$
 $R = 12,000.00'$
 $SE = NC$



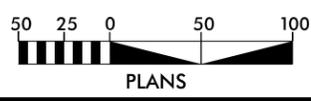
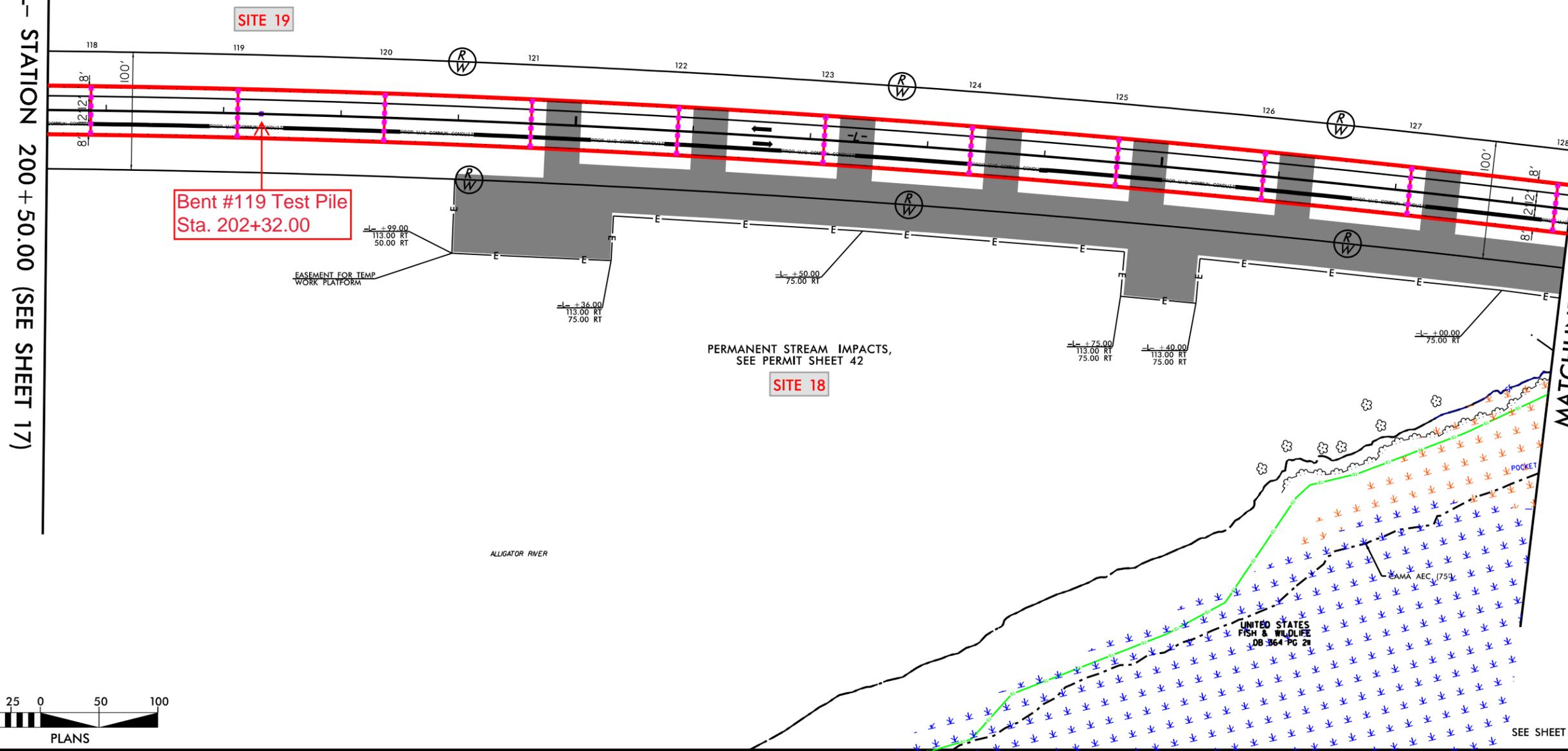
PERMIT DRAWING SHEET 30 OF 79

-  SURFACE WATER IMPACTS
-  SURFACE WATER IMPACTS (TEST PILES)
-  TEMPORARY WORK TRESTLE

8/17/99
 REVISIONS
 04-JAN-2024 13:48
 04-0001-18-18-sh-30.dgn
 04-0001-18-18-sh-30.dgn

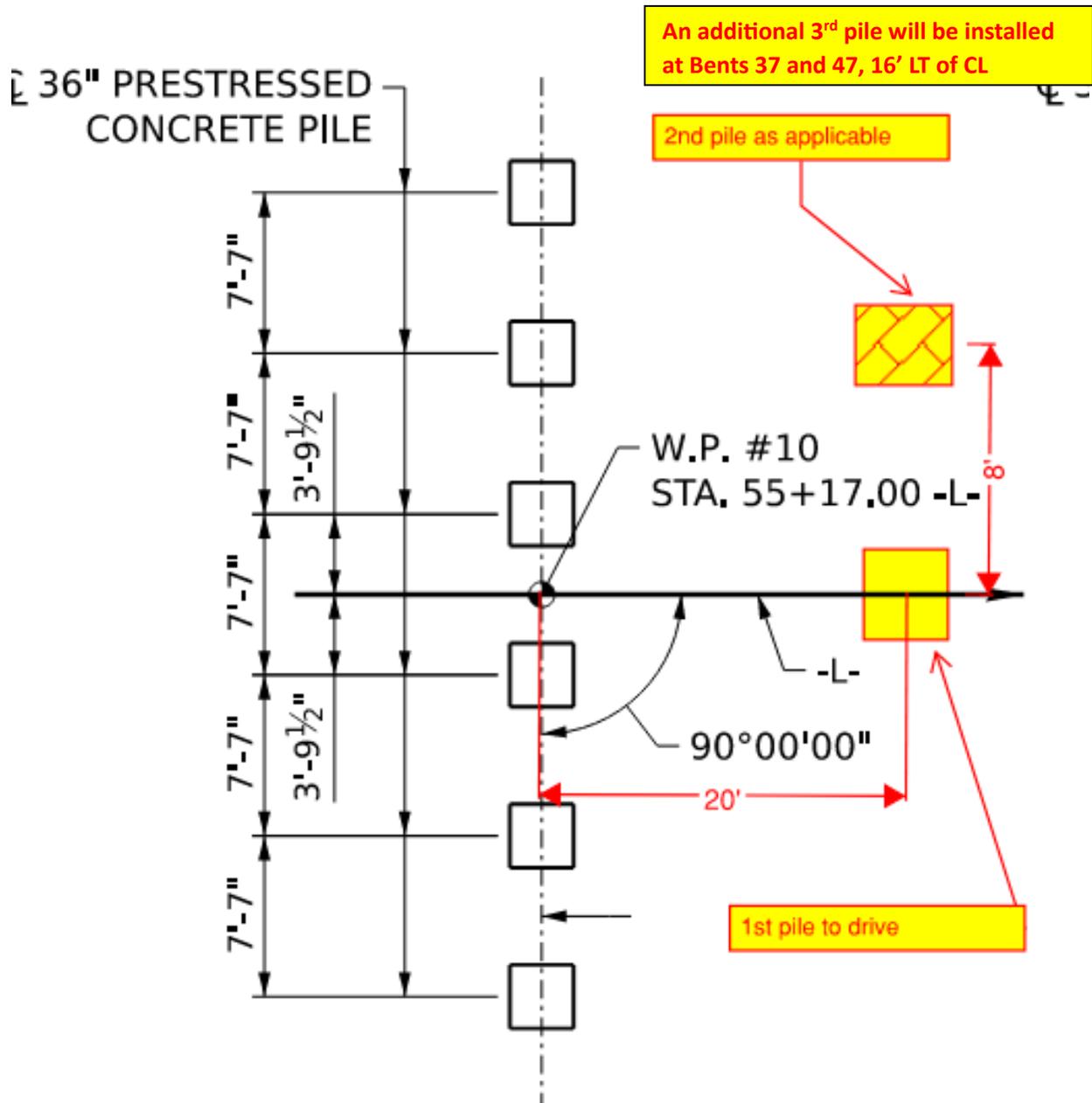
MATCHLINE -L- STATION 200+50.00 (SEE SHEET 17)

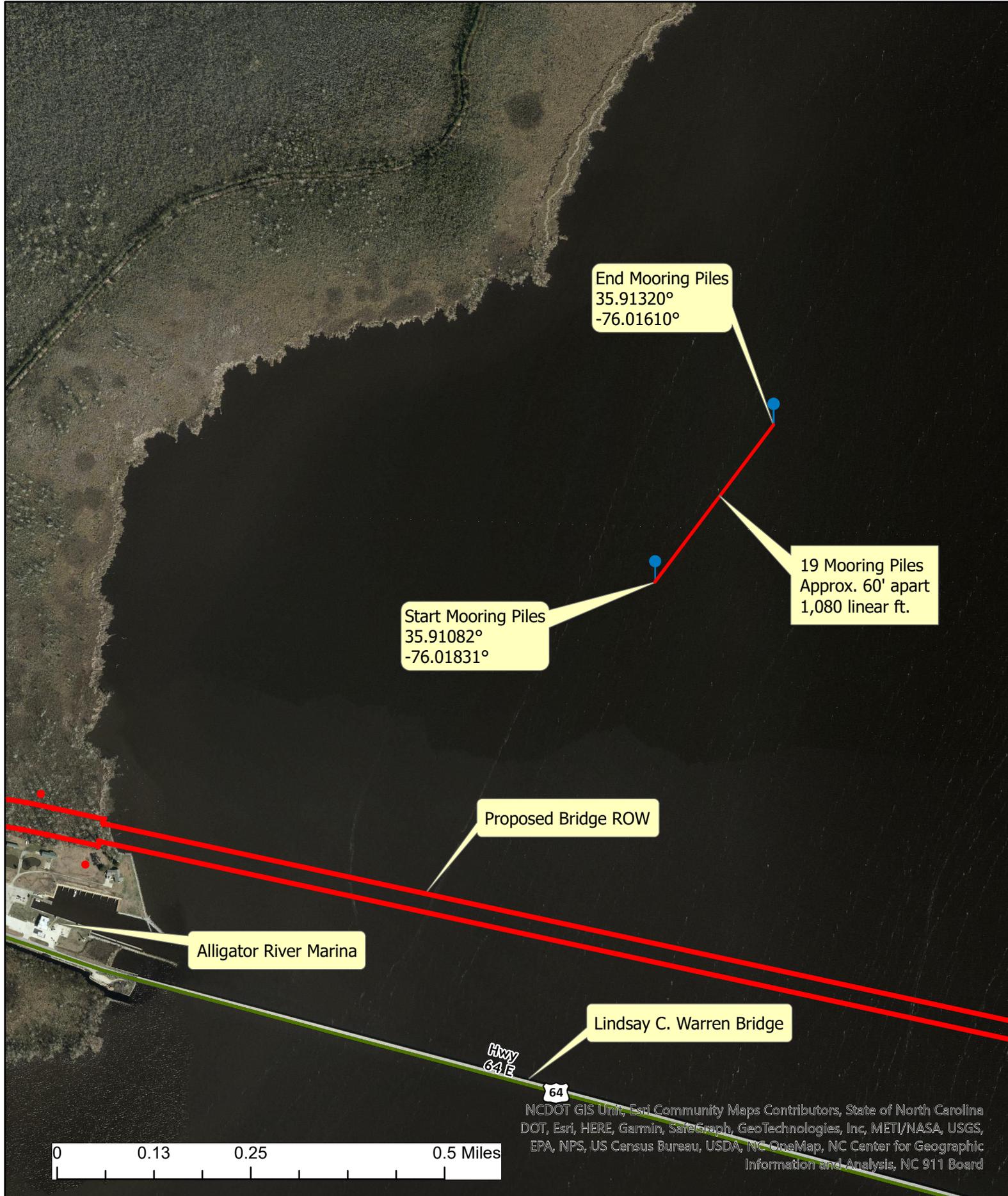
MATCHLINE -L- STATION 213+50.00 (SEE SHEET 19)



SEE SHEET 31 & 32 FOR -L- PROFILE

Test Pile Detail





End Mooring Piles
 35.91320°
 -76.01610°

Start Mooring Piles
 35.91082°
 -76.01831°

19 Mooring Piles
 Approx. 60' apart
 1,080 linear ft.

Proposed Bridge ROW

Alligator River Marina

Lindsay C. Warren Bridge

Hwy
 64 E

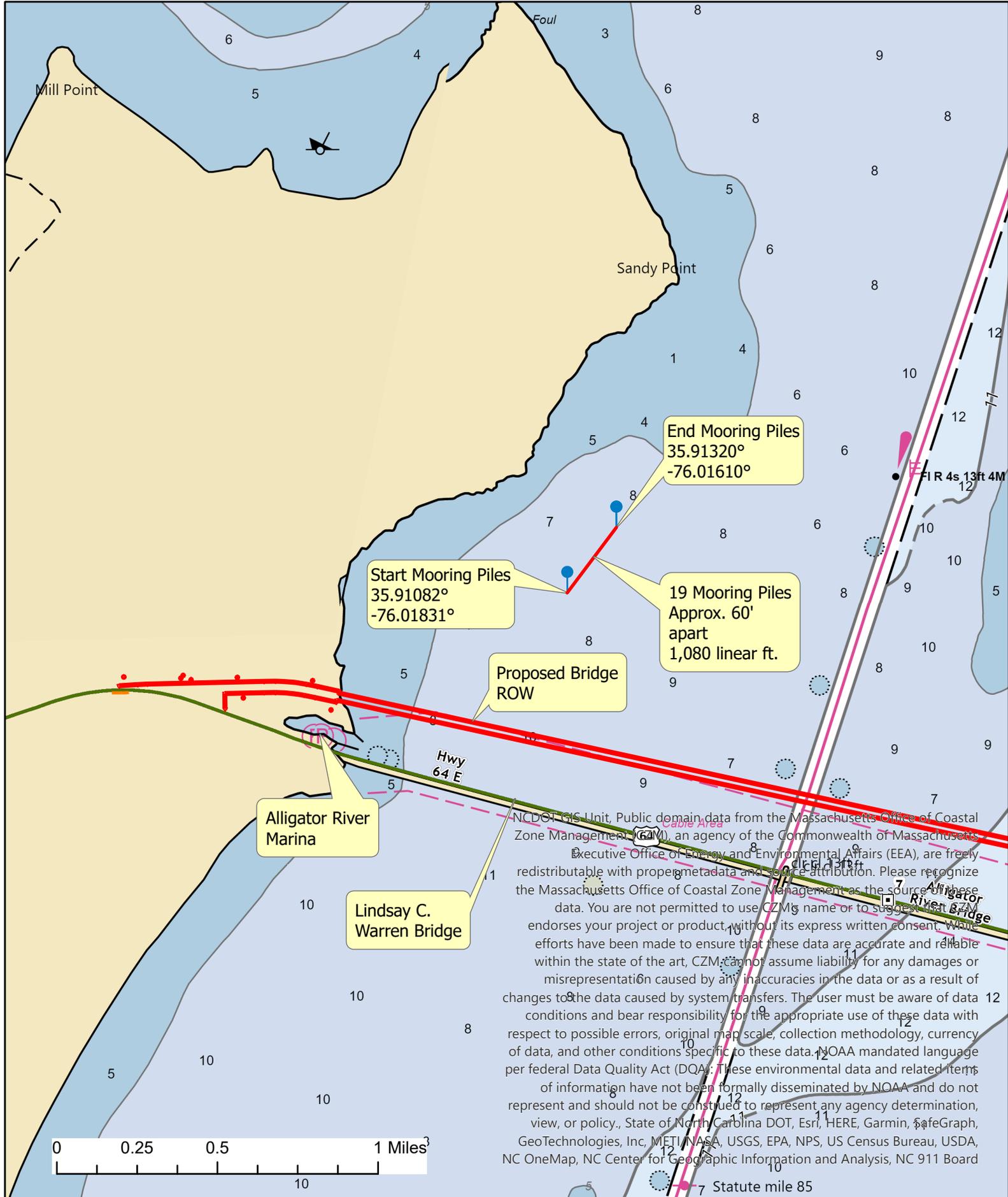
64

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

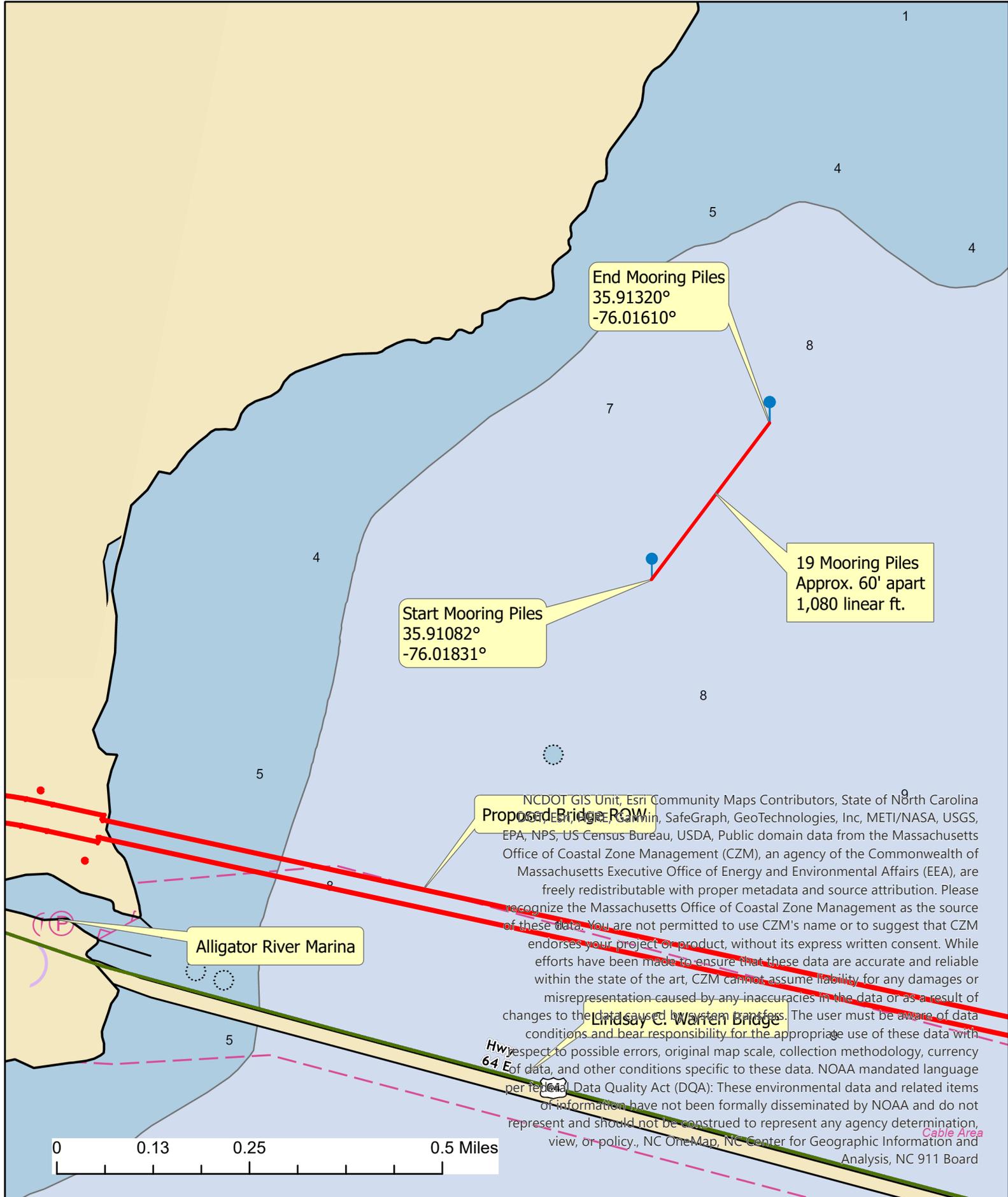


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HB-0001 Alligator River Bridge Project
Proposed Mooring Pile Locations
Nautical Map

Date: 12/28/2023
Imagery: NOAA
Nautical Chart
Drawn By: Paul Williams
Scale: 1:24,000



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

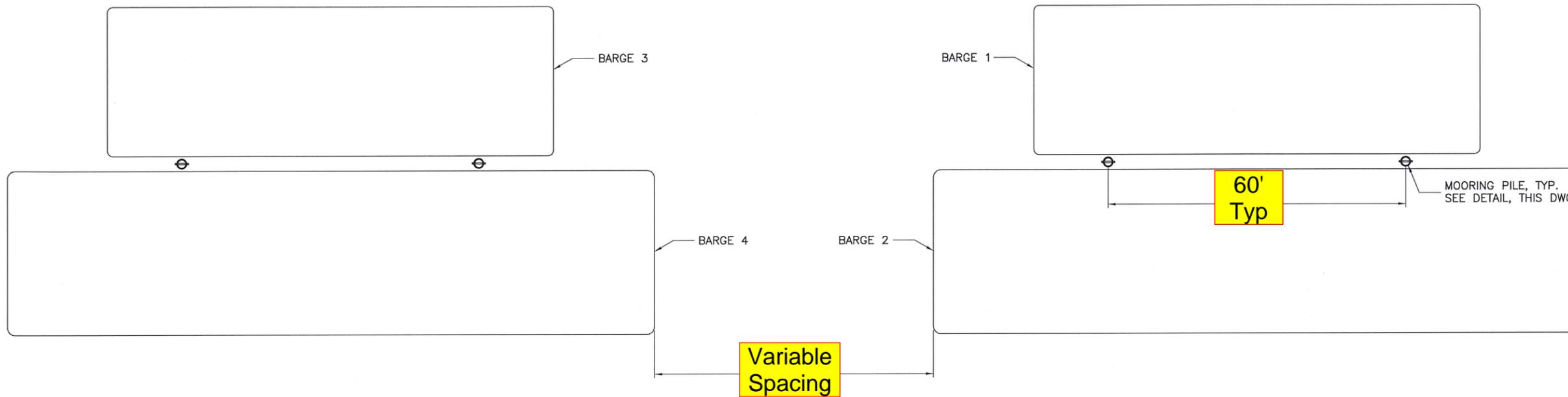
Date: 12/28/2023
Imagery: NOAA
Nautical Chart
Drawn By: Paul Williams
Scale: 1:10,000

NOTES:

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

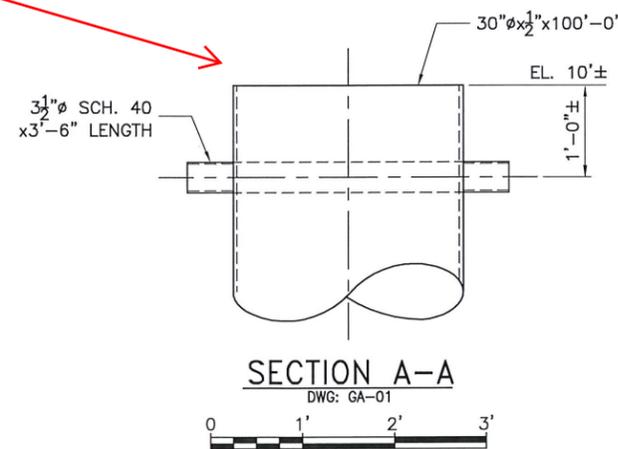
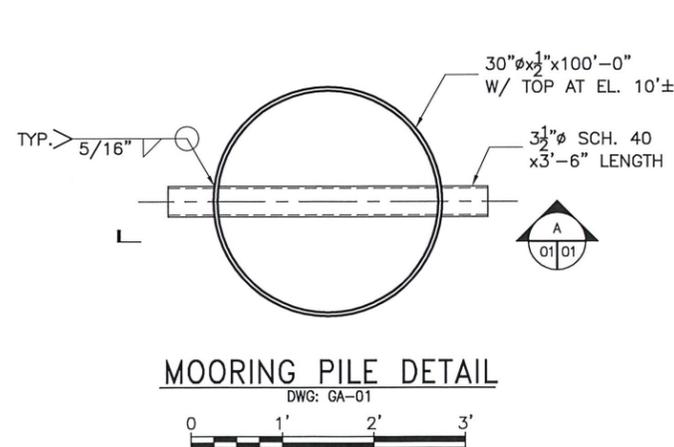
SPECIFICATIONS:

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



TEMPORARY MOORING - PLAN
N.T.S.

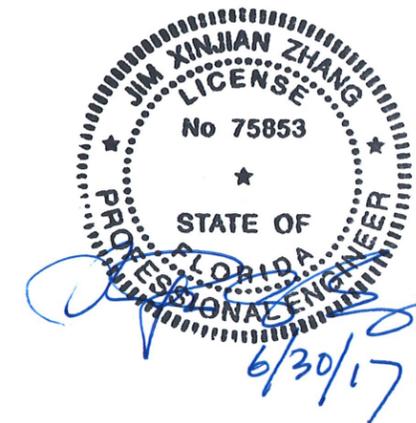
Top of Pile is 5' to 6' above water



APPROVED FOR CONSTRUCTION
BY SKANSKA SE ENGINEERING DEPT

REV.	DATE	DESIGN	DRAWN	REMARKS
0	06/30/17	JXZ	DER	FOR CONSTRUCTION
A	09/12/16	JXZ	DER	FOR REVIEW

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