

Serena McIlwain, Secretary Suzanne E. Dorsey, Deputy Secretary Adam Ortiz, Deputy Secretary

May 07, 2025

U.S. Dept of the Navy - Naval Support Activity Annapolis - Environmental Division c/o Colin P. Casey
US Naval Support Activity Annapolis - Environmental Division
181 Wainright Rd
Annapolis, MD 21402

Via email: colin.p.casey.civ@us.navy.mil

Re: Agency Interest Number: 180573

Tracking Number: 202460102 Tidal Authorization Number: 24-WQC-0048

Dear U.S. Dept of the Navy - Naval Support Activity Annapolis - Environmental Division:

Your project did not qualify for approval under the Maryland State Programmatic General Permit (MDSPGP); therefore a separate review and issuance of the federal permit will be required by the U.S. Army Corps of Engineers. The federal permit is not attached.

Additionally, your project required a Wetlands License to be approved and issued by the Maryland Board of Public Works (BPW). The Wetlands License will be sent to you by BPW's Wetlands Administrator.

A project that does not qualify for approval under the MDSPGP requires an individual Water Quality Certification (WQC) to be issued by the Maryland Department of the Environment, which is attached. Please take a moment to read and review your WQC to ensure that you understand the limits of the authorized work and all of the general and special conditions.

You should not begin any work until you have obtained all necessary State, local, and federal authorizations. Please contact Mel Throckmorton at mel.throckmorton@maryland.gov or 410-375-2803 with any questions.

Sincerely,

Jonathan Stewart Acting Division Chief Tidal Wetlands Division



STATE OF MARYLAND DEPARTMENT OF THE ENVIRONMENT WATER AND SCIENCE ADMINISTRATION WATER QUALITY CERTIFICATION



24-WQC-0048

EFFECTIVE DATE: May 7, 2025

CERTIFICATION U.S. Dept of the Navy - Naval Support Activity Annapolis -

HOLDER: **Environmental Division** ADDRESS: **Environmental Division**

181 Wainright Rd Annapolis, MD 21402

PROJECT LOCATION: along Bigelow Road - 38.982832 / -76.467334

Annapolis, MD 21402

UNDER AUTHORITY OF SECTION 401 OF THE FEDERAL WATER POLLUTION CONTROL ACT AND ITS AMENDMENTS AND IN ACCORDANCE WITH § 9-313 THROUGH § 9-323, INCLUSIVE, OF THE ENVIRONMENT ARTICLE, ANNOTATED CODE OF MARYLAND, THE MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER AND SCIENCE ADMINISTRATION HAS DETERMINED THAT THE REGULATED ACTIVITIES DESCRIBED IN THE REQUEST FOR CERTIFICATION FOR THE PROPOSED YP BOAT BASIN RECONFIGURATION AND SHORELINE STABILIZATION AND AS DESCRIBED IN THE ATTACHED PLAN SHEETS DATED MARCH 20TH, 2025, AND ANY SUBSEQUENT MODIFICATIONS APPROVED BY THE DEPARTMENT WILL NOT VIOLATE MARYLAND'S WATER QUALITY STANDARDS, IF CONDUCTED IN ACCORDANCE WITH THE CONDITIONS OF THIS CERTIFICATION.

THIS CERTIFICATION DOES NOT RELIEVE THE APPLICANT OF RESPONSIBILITY FOR OBTAINING ANY OTHER APPROVALS, LICENSES, OR PERMITS IN ACCORDANCE WITH FEDERAL, STATE, OR LOCAL REQUIREMENTS AND DOES NOT AUTHORIZE COMMENCEMENT OF THE PROPOSED PROJECT. A COPY OF THIS REQUIRED CERTIFICATION HAS BEEN SENT TO THE CORPS OF ENGINEERS. THE CERTIFICATION HOLDER SHALL COMPLY WITH THE CONDITIONS LISTED BELOW.

The Maryland Department of the Environment satisfied the statutory and regulatory public notice requirements by placing the WQC on Public Notice from April 1st, 2025 to April 15th, 2025 on Maryland Department of the Environment's Public Notice webpage and advertising in the Capital Gazette on April 4th, 2025.

PROJECT DESCRIPTION

- 1. Remove an existing marine railway, relieving platform, and existing piers with associated dolphin pilings;
- 2. Mechanically dredge a 160-foot long by 25-foot wide area (2,925 square feet) to a depth of 11 feet at mean low water and to provide for periodic maintenance dredging for six years; to deposit approximately 325 cubic yards of dredged material on an approved upland disposal site located at 4944 Sands Rd, Lothian, MD 20711;

- 3. Construct a 144-foot long by 50-foot wide concrete boat ramp with a 700 SF floating dock and gangway extending a maximum of 144 feet channelward of the mean high water line, and replace 101 linear feet of bulkhead within 1.5 feet channelward of an existing bulkhead;
- 4. Construct 101 linear feet of new bulkhead adjacent to an existing boat ramp and add 2,592 SF of clean fill behind it;
- 5. Replace 650 linear feet of bulkhead within 18 inches of an existing bulkhead;
- 6. Replace in-kind 13,364 square feet of an existing relieving platform with associated pilings;
- 7. Construct a 130-foot long by 12-foot wide pier and emplace 8 mooring piles within a maximum of 130-feet channelward of the mean high water line;
- 8. Construct a 258-foot long by 13-foot wide parallel platform which includes two gangways measuring 40-foot long by 4.5-foot wide, two gangways measuring 16.5-foot long by 4.5 foot wide, two 22-foot long by 10-foot wide access platforms, and five 50-foot long by 8-foot wide floating piers, and emplace eight mooring piles, all within a maximum of 63 feet channelward of the mean high water line.

GENERAL CONDITIONS

- 1. All water quality-related performance standards and conditions required by the Department in any state issued authorization for activities in tidal wetlands, nontidal wetlands, their 100-year floodplains, nontidal wetlands buffers, or nontidal wetland expanded buffers to ensure that any discharges will not result in a failure to comply with water quality standards in COMAR 26.08.02 or any other water quality requirements of state law or regulation shall be met.
- 2. This Certification does not obviate the need to obtain required authorizations or approvals from other State, federal or local agencies as required by law.
- 3. All additional authorizations or approvals, including self-certifying General Permits issued by the Department, shall be obtained and all conditions shall be completed in compliance with such authorizations.
- 4. The proposed project shall be constructed in accordance with the approved final plan by the Department, or, if Department approval is not required, the plan approved by the U.S. Army Corps of Engineers, and its approved revisions.
- 5. All fill and construction materials not used in the project shall be removed and disposed of in a manner which will prevent their entry into waters of this State.
- 6. This Certification does not authorize any injury to private property, any invasion of rights, or any infringement of federal, state, or local laws or regulations.
- 7. Authorized representatives of the Department shall be provided access to the site of authorized activities during normal business hours to conduct inspections and evaluations of the operations and records necessary to assure compliance with this Certification.
- 8. No stockpiles of any material shall be placed in Waters of the U.S. or state or private tidal wetlands.
- 9. Temporary construction trailers or structures, staging areas and stockpiles shall not be located within tidal wetlands, nontidal wetlands buffers, or the 100-year floodplain unless specifically included on the Approved Plan.

10. This Certification is valid for the project identified herein and the associated U.S. Army Corps of Engineers authorization NAB-2024-60102 (Boat Basin at USNA) until such time that it expires or is not administratively extended.

SPECIAL CONDITIONS

- 1. All Critical Area requirements shall be followed and all necessary authorizations from the Critical Area Commission ("Commission") shall be obtained. This Certificate does not constitute authorization for disturbance in the 100-foot Critical Area Buffer. "Disturbance" in the Buffer means clearing, grading, construction activities, or removal of any size of tree or vegetation. Any anticipated Buffer disturbance requires prior written approval, before commencement of land disturbing activity, from local jurisdiction in the form of a Buffer Management Plan.
- 2. All work performed under this Water Quality Certificate shall be conducted by a marine contractor licensed by the Marine Contractors Licensing Board (MCLB) in accordance with Title 17 of the Environment Article of Annotated Code of Maryland. Licensing by MCLB shall occur prior to the beginning of construction activities. A list of licensed marine contractors may be obtained by contacting the MCLB at 410-537- 3249, by e-mail at MDE.MCLB@maryland.gov or by accessing the Maryland Department of the Environment, Environmental Boards webpage.
- 3. The issuance of this Certificate is not a validation or authorization by the Department for any of the existing structures depicted on the plan sheets on the subject property that is not part of the authorized work description, nor does it relieve the Certificate Holder of the obligation to resolve any existing noncompliant structures and activities within tidal wetlands.
- 4. The Certificate Holder shall pay \$4,696.83 USD (\$2.07/square foot) into the Maryland Department of the Environment (MDE) Wetland Compensation Fund to mitigate the impacts to 2,269 square feet of open water tidal wetlands. Payment is required to be submitted to MDE within six months of the issuance date of the Certification or prior to the commencement of any construction, whichever comes first. Failure to comply with this condition will result in automatic suspension of the Certification. An invoice for payment and instructions will be mailed separately.
- 5. The Certificate Holder shall complete construction of the bulkhead prior to filling behind the bulkhead. The bulkhead shall be designed and constructed to prevent the loss of fill material to waters of the State of Maryland. Only clean fill, which is free of organic, toxic, contaminated, or deleterious materials, shall be used.
- 6. The Certificate Holder, to reduce any potential adverse effects to aquatic resources, shall construct and maintain a cofferdam or similar containment structure around and channelward of the boat ramp area prior to any excavation and backfilling along the shoreline through completion of any excavation and backfilling along the shoreline and concrete work.
- 7. The Certificate Holder shall not perform any dredging from November 15th through March 1st of any year to protect wintering waterfowl. The proposed project site is located in a Historic Waterfowl Concentration Area.
- 8. If the Certificate Holder transports by trucks, the trucks need to be watertight and no dredged material shall be discharged onto the roadways of the State.

- 9. The Certificate Holder shall conduct subsequent maintenance dredging within the scope of this license in terms of authorized dredge area and authorized depths. The certificate holder shall:
 - a. Dredge no more than 500 cubic yards of material at each maintenance dredging.
 - b. Comply with all applicable conditions of this license.
 - c. Submit a detailed dredged material disposal plan to be approved by the Water and Science Administration, Tidal Wetlands Division prior to the start of dredging.
 - d. Notify and receive approval from the Water and Science Administration, Compliance Program a minimum of 10 days prior to the start of each maintenance dredging operation.
- 10. The Certificate Holder shall stake the dredge area and receive approval from the Water and Science Administration's, Compliance Division prior to the start of dredging.
- 11. The Certificate Holder shall conduct a post dredge bathymetric survey and forward to the Water and Science Administration, Tidal Wetlands Division within 45 days after the termination of any phase of dredging.
- 12. The Certificate Holder shall dispose of dredged material only at the dredge disposal site(s) approved by this Water Quality Certification. The Certificate Holder shall submit an application for modification of the Certification to MDE for approval of any dredge disposal site not authorized within this Certificate.

STATEMENTS OF NECESSITY

1. Statement of Necessity for General Conditions 1, 2, 3, 4, and Special Conditions 1, 3, 4, 6, 12: These conditions are necessary to ensure that water quality standards are met, and designated uses are maintained.

Citations: Federal and state laws which authorize this condition include but are not limited to: 33 U.S.C. § 1341(a), (b), & (d); 33 U.S.C. § 1251(b); 33 U.S.C. § 1370; Md. Ann. Code, Env. Article, Title 1, Subtitles 3 and 4; Md. Ann. Code, Env. Article, Title 5, Subtitles 5 and 9; Md. Ann. Code, Env. Article, Title 9, Subtitle 3; Md. Ann. Code, Env. Article, Title 16; COMAR 26.08; COMAR 26.08.02.10G(3); COMAR 26.23.02.06; COMAR 26.17.01; COMAR 26.23; COMAR 26.24

2. Statement of Necessity for General Conditions 5, 8, 9, and Special Conditions 5, 8, 9, 10, 12: Fill or construction material within or adjacent to regulated resources may cause discharges resulting in turbidity in excess of water quality standards and interfere with designated uses of growth and propagation of fish, other aquatic life, wildlife; and other designated uses; and fail to meet general water quality criteria that waters not be polluted by substances in amounts sufficient to be unsightly or create a nuisance.

Citation: 26.08.02.03B(1)-B(2); COMAR 26.23; COMAR 26.24; COMAR 26.17.04

3. Statement of Necessity for General Condition 6: This condition is necessary to clarify the scope of this certification to ensure compliance with water quality regulations, without limiting restrictions through other requirements.

Citation: Federal and state laws which authorize this condition include but are not limited to: 33 U.S.C. § 1341(a), (b), & (d); 33 U.S.C. § 1251(b); 33 U.S.C. § 1370; Md. Ann. Code, Env. Article, Title 1, Subtitles 3 and 4; Md. Ann. Code, Env. Article, Title 5, Subtitles 5 and 9; Md. Ann. Code, Env. Article, Title 9, Subtitle 3; Md. Ann. Code, Env. Article, Title 16; COMAR 26.08, COMAR 26.08.02.10E; COMAR 26.23.02.06; COMAR 26.17.04; COMAR 26.23; COMAR 26.24

4. Statement of Necessity for General Condition 7: Conditions of certification involve precise actions to comply with water quality standards. Site inspection may be necessary to ensure that limits, methods, and other requirements are met to ensure that water quality standards are met and designated uses are maintained. These conditions are necessary to ensure that the activity was conducted, and project completed according to terms of the authorization/certification, while allowing for review of in-field modifications which may have resulted in discharges to ensure that water quality standards were met. Designated uses include support of estuarine and marine aquatic life and shellfish harvesting and for growth and propagation of fish, other aquatic life, and wildlife.

Citation: Federal and state laws that authorize this condition include but are not limited to: 33 U.S.C. § 1341(a), (b), & (d); 33 U.S.C. § 1251(b); 33 U.S.C. § 1370; Md. Ann. Code, Env. Article, Title 1, Subtitles 3 and 4; Md. Ann. Code, Env. Article, Title 5, Subtitles 5 and 9; Md. Ann. Code, Env. Article, Title 9, Subtitle 3; Md. Ann. Code, Env. Article, Title 16; COMAR 26.08; COMAR 26.08.02.03B(1)(b); COMAR 26.08.02.03B(2); COMAR 26.23.02.06; COMAR 26.23; COMAR 26.24; COMAR 26.17.04

5. Statement of Necessity for General Condition 10: This condition is necessary to qualify the period of applicability of the terms and conditions of this Certification to be protective of Maryland water quality standards.

Citations: Federal and state laws which authorize this condition include but are not limited to: 33 U.S.C. § 1341(a), (b), & (d); 33 U.S.C. § 1251(b); 33 U.S.C. § 1370; 40 C.F.R. 121, 15 C.F.R. 930, Md. Ann. Code, Env. Article, Title 1, Subtitles 3 and 4; Md. Ann. Code, Env. Article, Title 5, Subtitles 5 and 9; Md. Ann. Code, Env. Article, Title 9, Subtitle 3; Md. Ann. Code, Env. Article, Title 16; COMAR 26.08; COMAR 26.17.04; COMAR 26.23; COMAR 26.24

6. Statement of Necessity for Special Condition 2: Expertise for conducting certain activities is required to ensure that there is no violation of water quality standards nor interference with designated uses. This condition is necessary to ensure that discharges will be conducted in a manner which does not violate water quality criteria nor interfere with designated uses.

Citation: COMAR 26.08.02.02B(2)- B(4); COMAR 26.08 02.03B(2)(d) – (e); COMAR 26.08.02.03B(1)(b); 26.08.02.03B(2); COMAR 23.02.04.04

7. Statement of Necessity for General Condition 8 and Special Conditions 9, 10, 12: Unauthorized discharges may enter regulated waters as result of activity or structural failure. A plan to address inadvertent discharges will prevent or address further violations of water quality standards and failure of water to meet designated uses, including uses of growth and propagation of fish, other aquatic life, wildlife; and other designated uses; and fail to meet general water quality criteria that waters not be polluted by substances in amounts sufficient to be unsightly or create a nuisance.

Citation COMAR 26.08.02.02B(1)d; COMAR 26.08.02.02B(3); COMAR 26.08.02.03B(1) and B(2); 26.08.02.01B(2); 26.08.02.02B(1)

8. Statement of Necessity for Special Condition 11: The condition is necessary to ensure that the dredging results in water depths which are appropriate to support designated uses of fishing and water contact recreation and propagation of fish, other aquatic life and wildlife; and ensure that no discharges are unsightly, create a nuisance, change to an objectionable color or interferes with designated uses.

Citations: COMAR 26.08.02.01B(2); COMAR 26.08.02.02B(1); 26.08.02.02B(3); COMAR 26.08.02.03B

9. Statement of Necessity for Special Condition 7: A time of year restriction is necessary to maintain the designated use for support of estuarine and marine aquatic life and shellfish harvesting.

Citation: Federal and state laws which authorize this condition include but are not limited to:

COMAR: 26.08.02.02B(1)(d); 26.08.02.02B(3); COMAR 26.08.02.02-16.

CERTIFICATION APPROVED

Matthew C. Rowe (May 19, 2025 19:10 EDT)

May 19, 2025

Date

D. Lee Currey, Director
Water and Science Administration

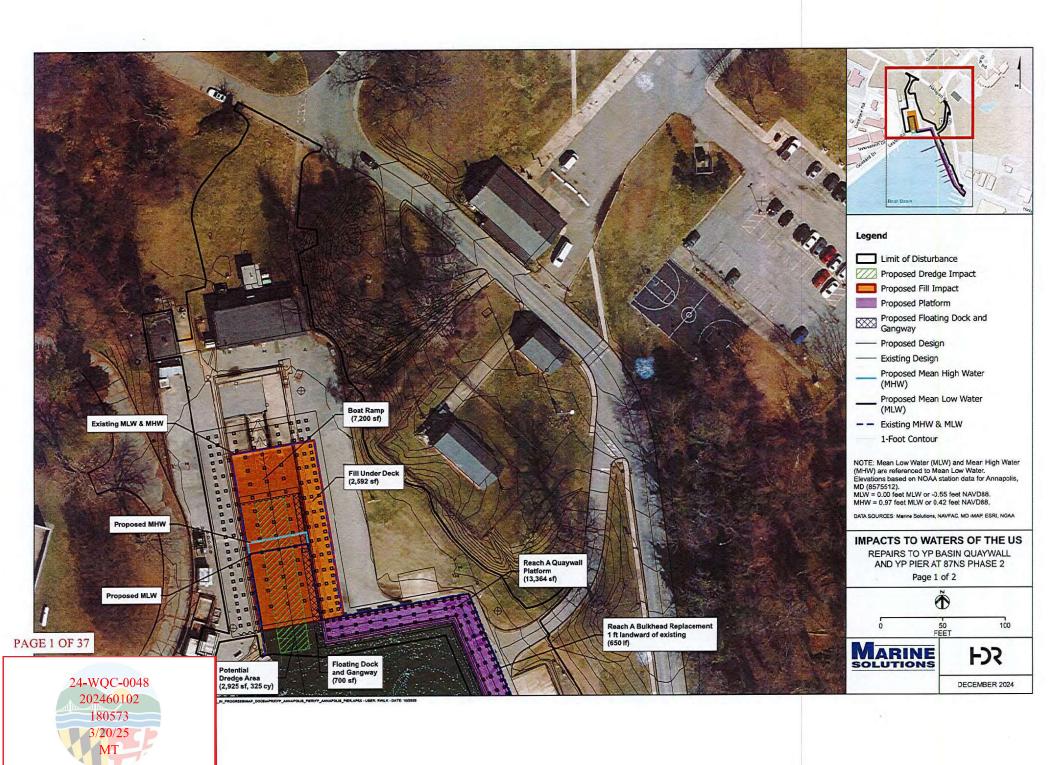
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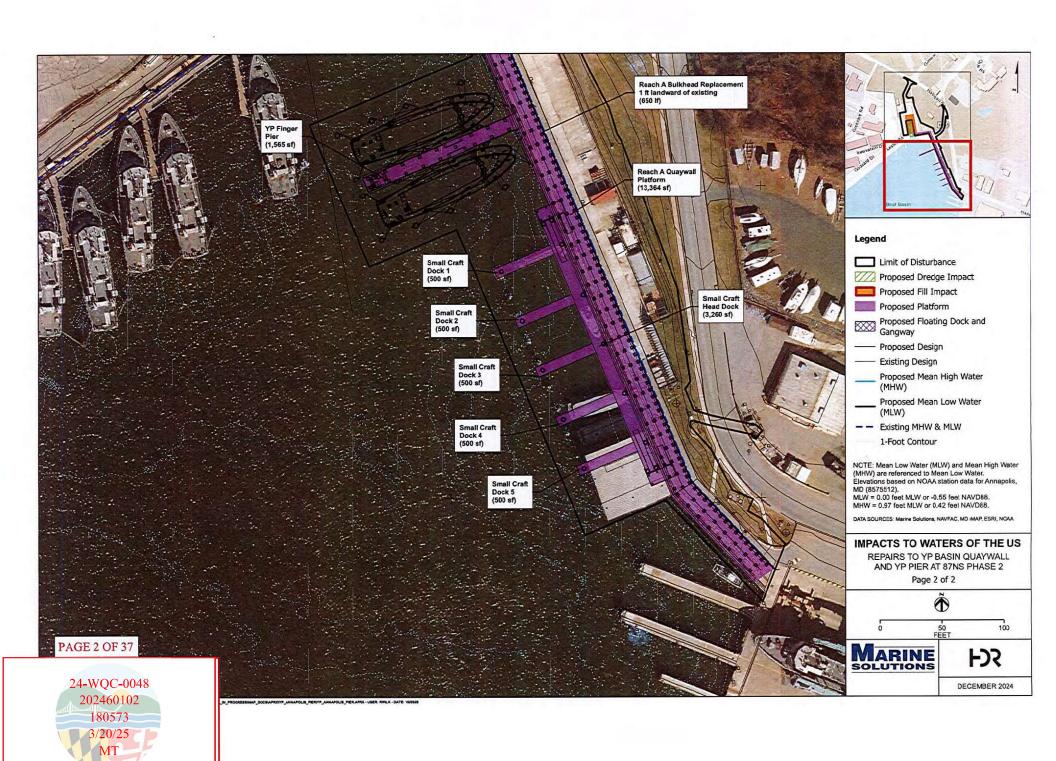
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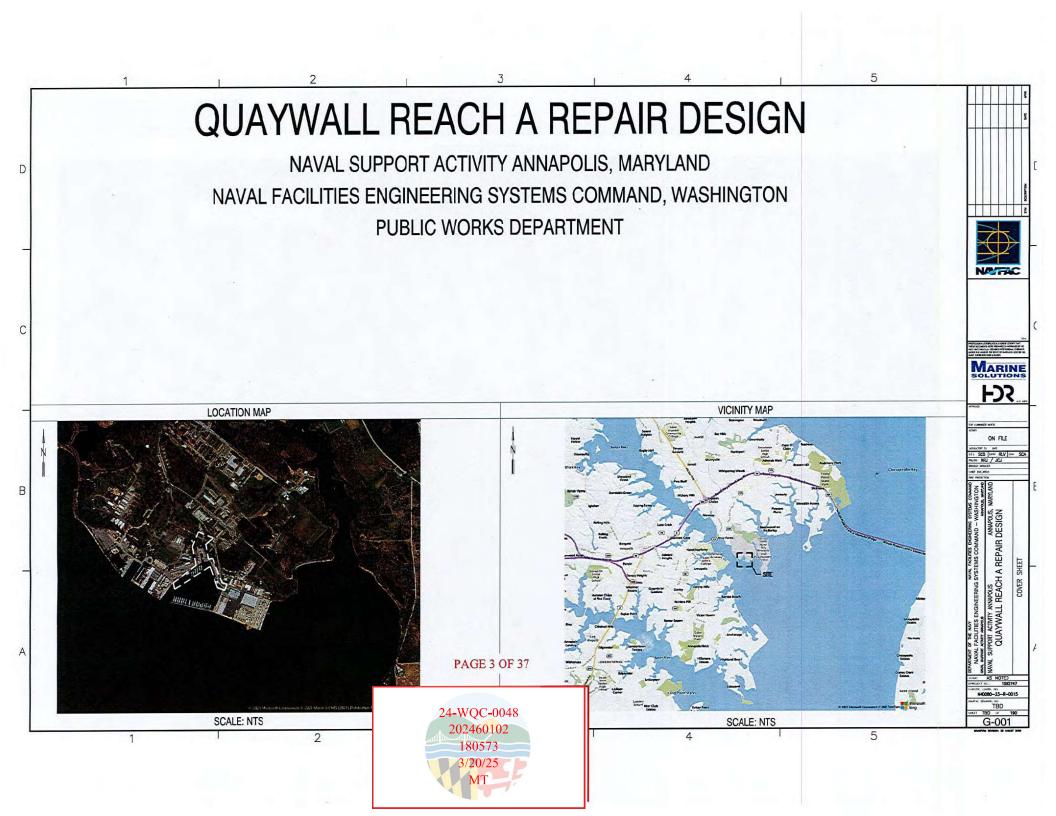
Enclosure: Plan Sheets dated March 20, 2025

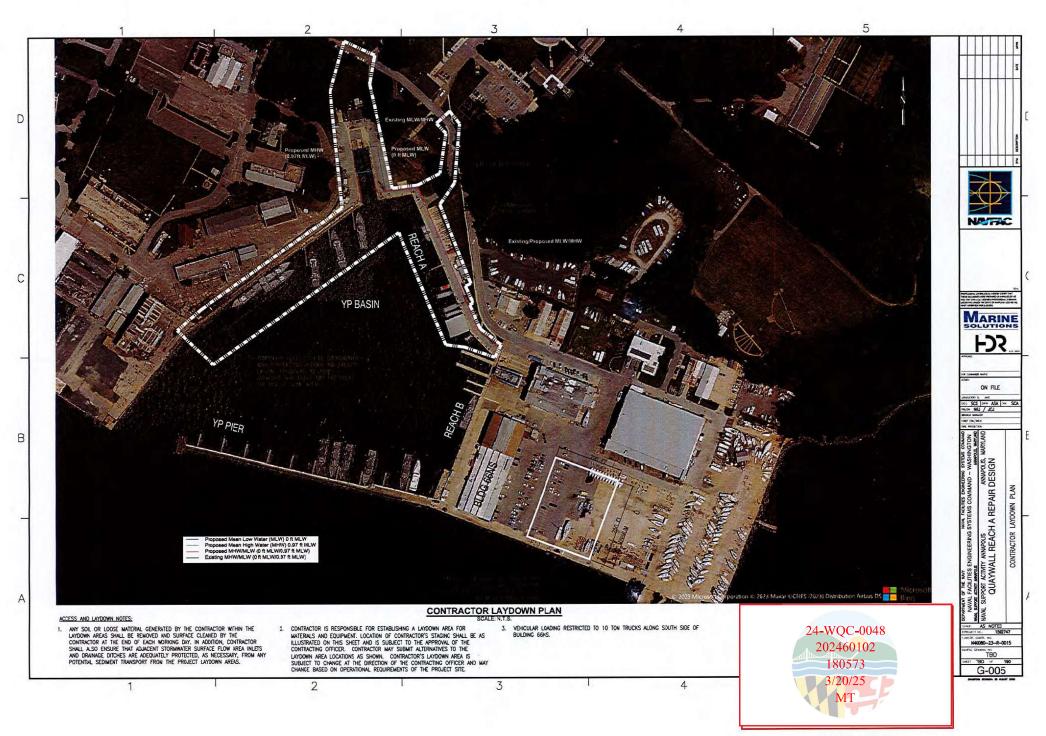
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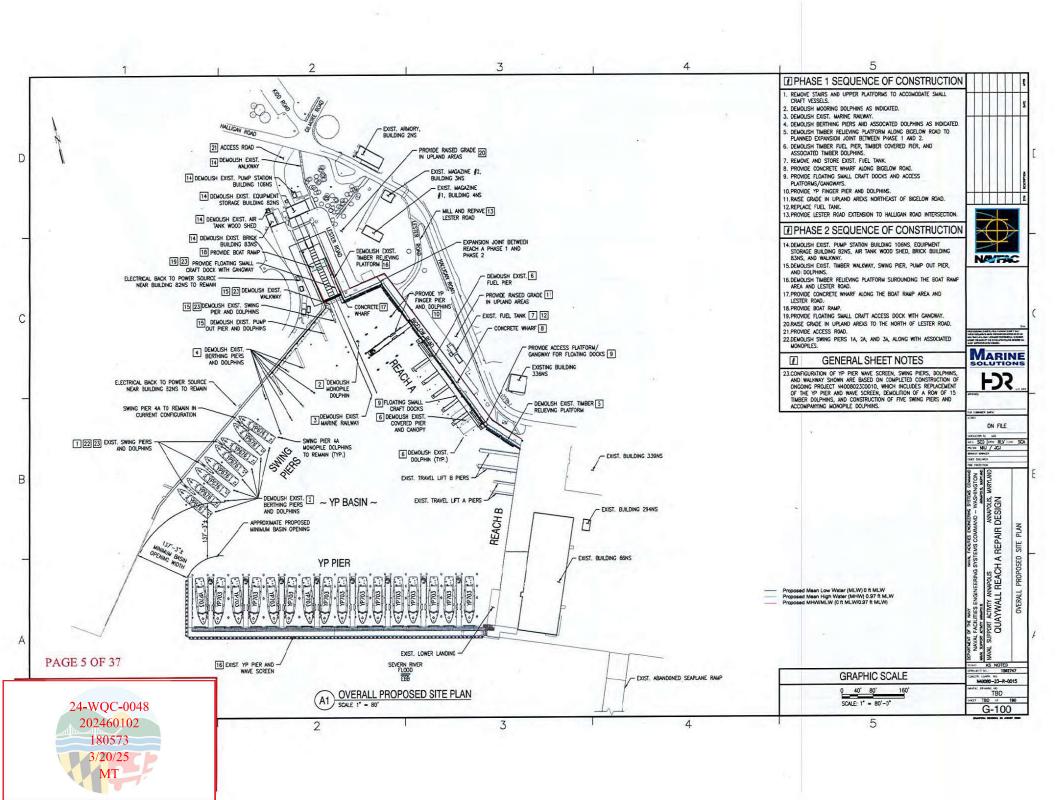
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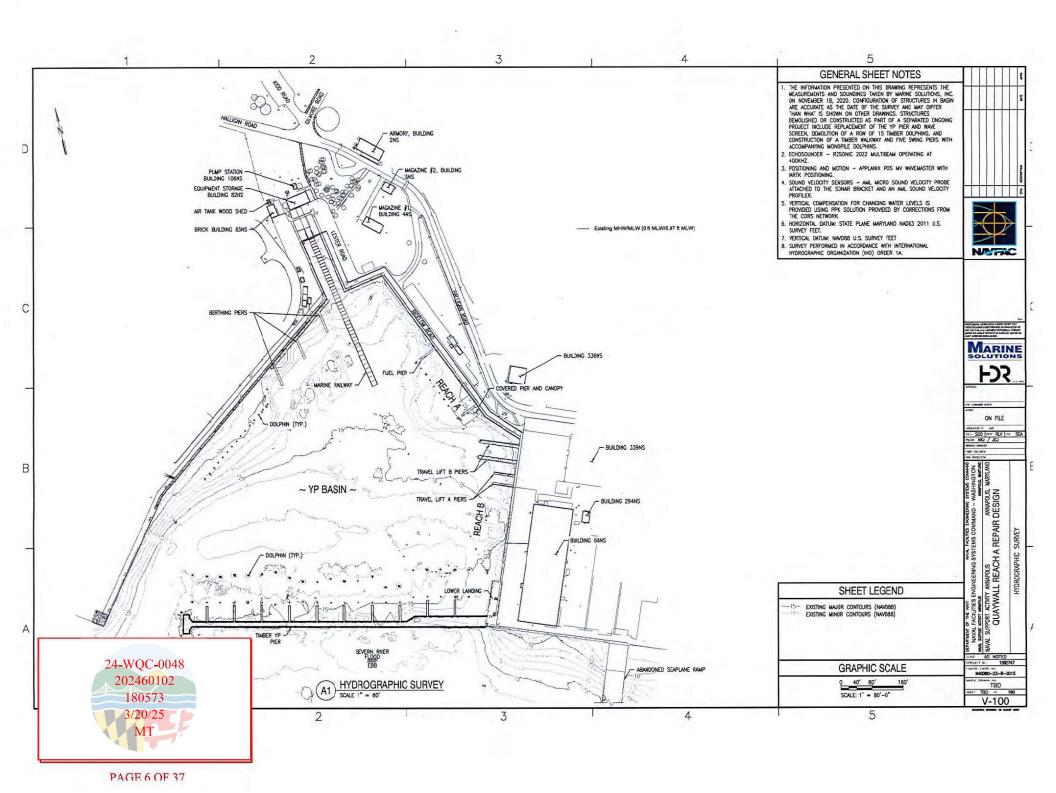


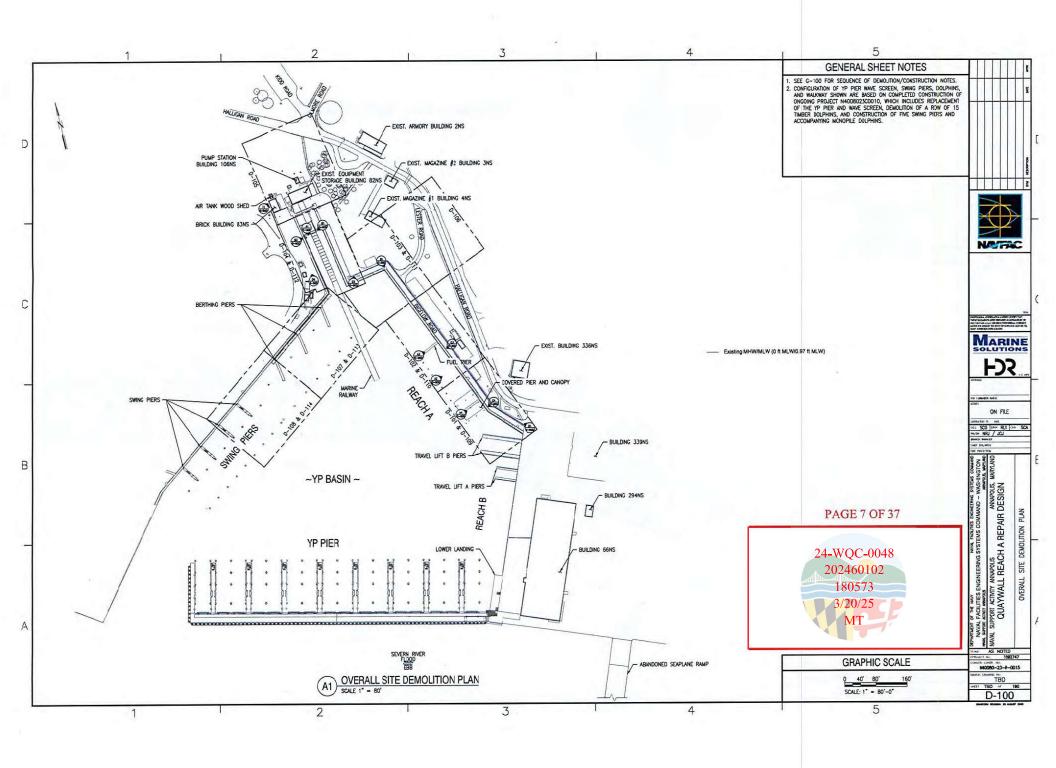


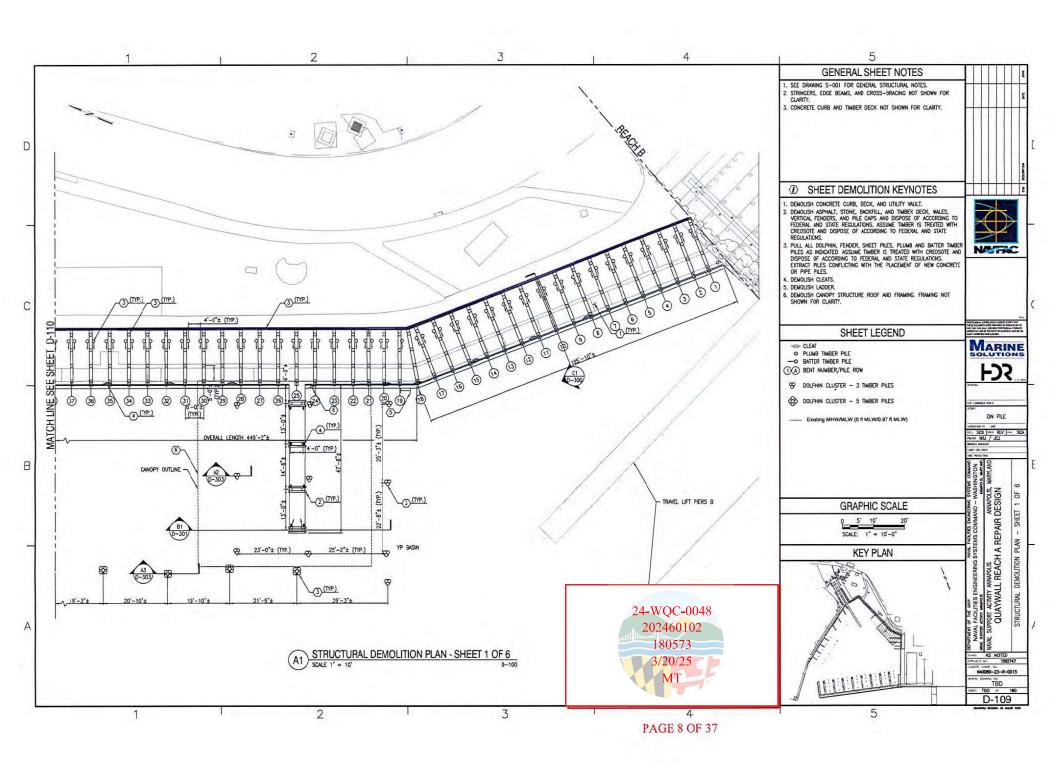


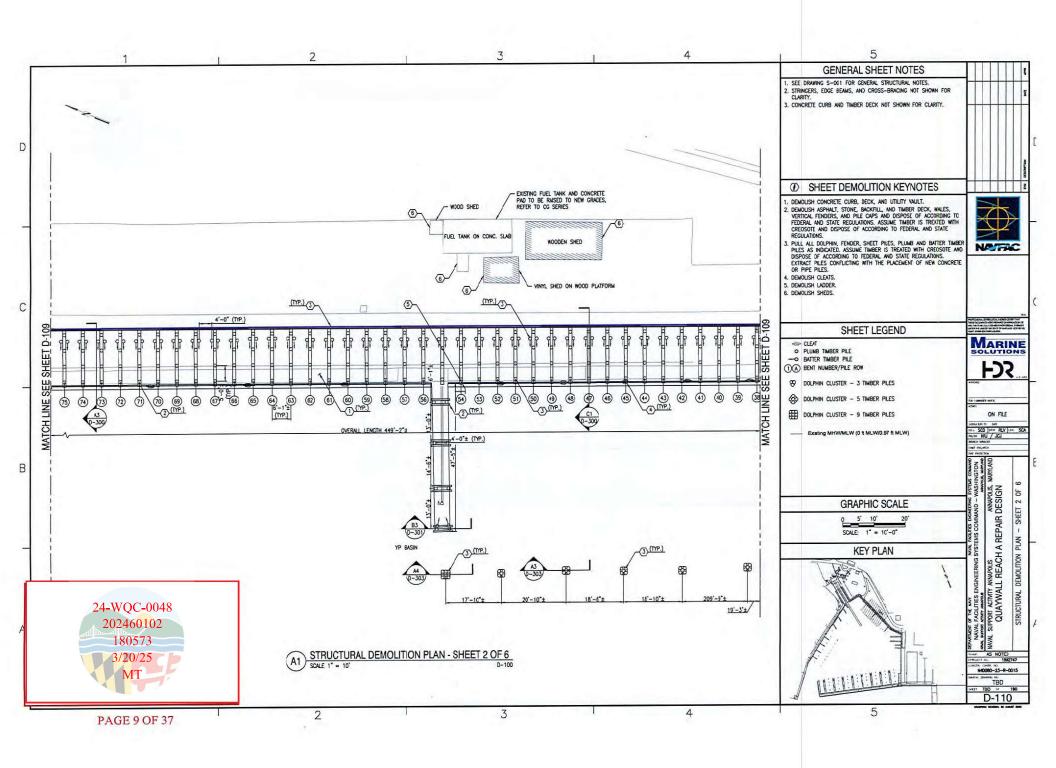


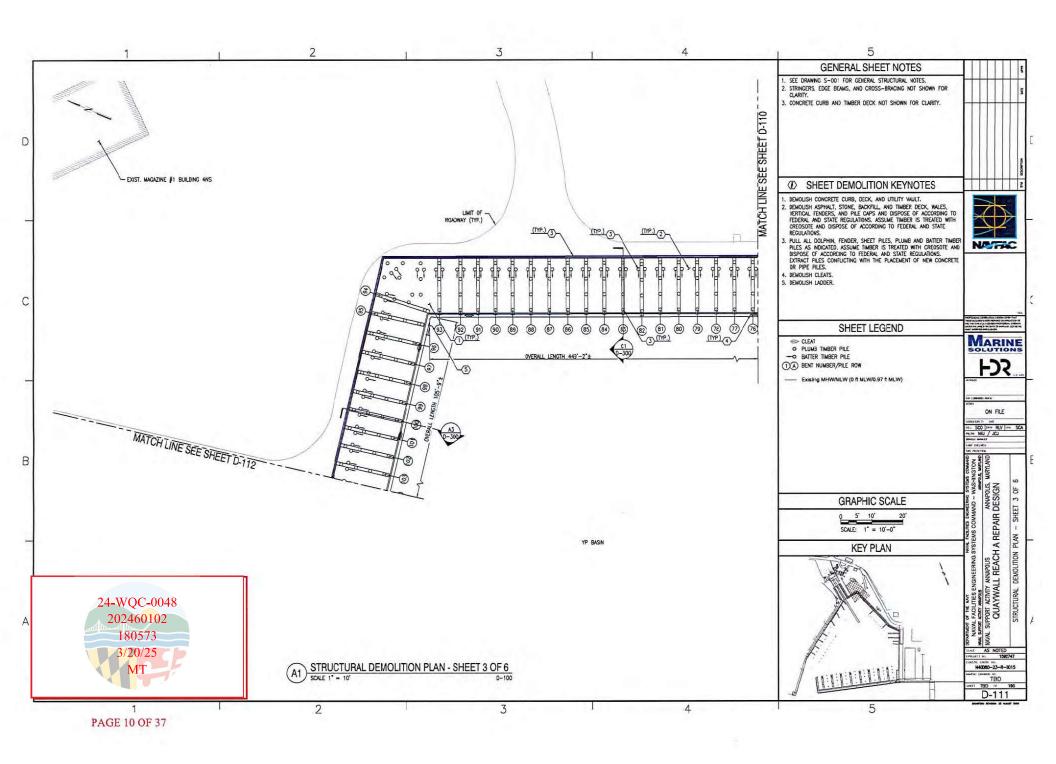


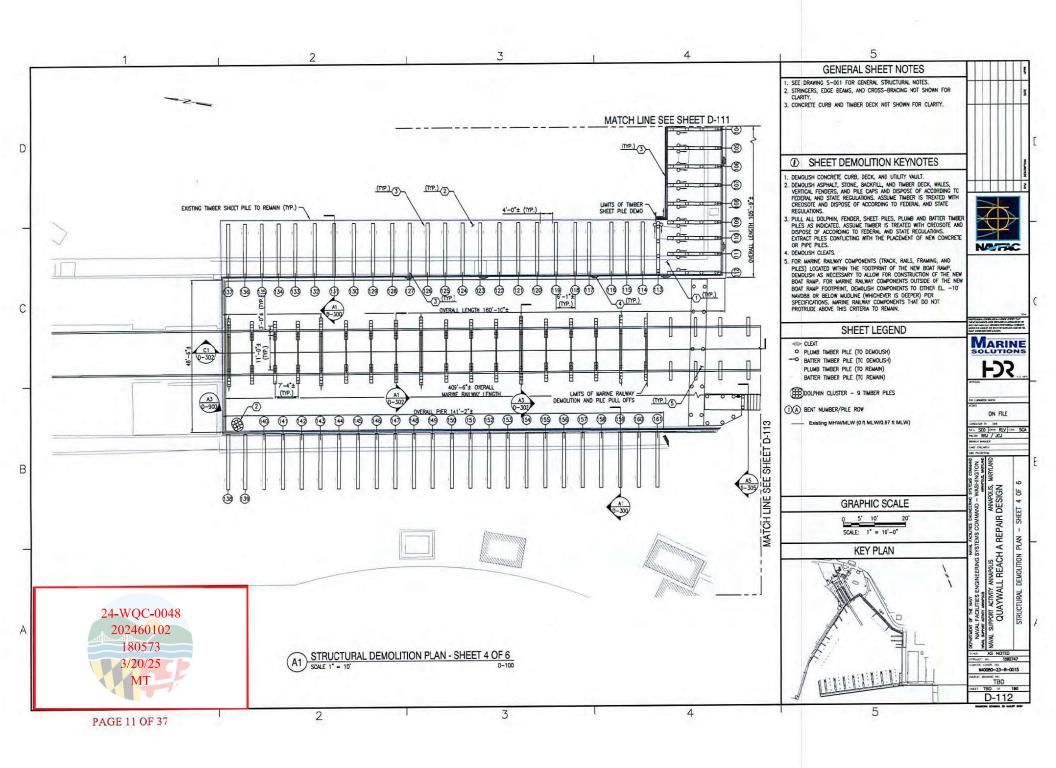


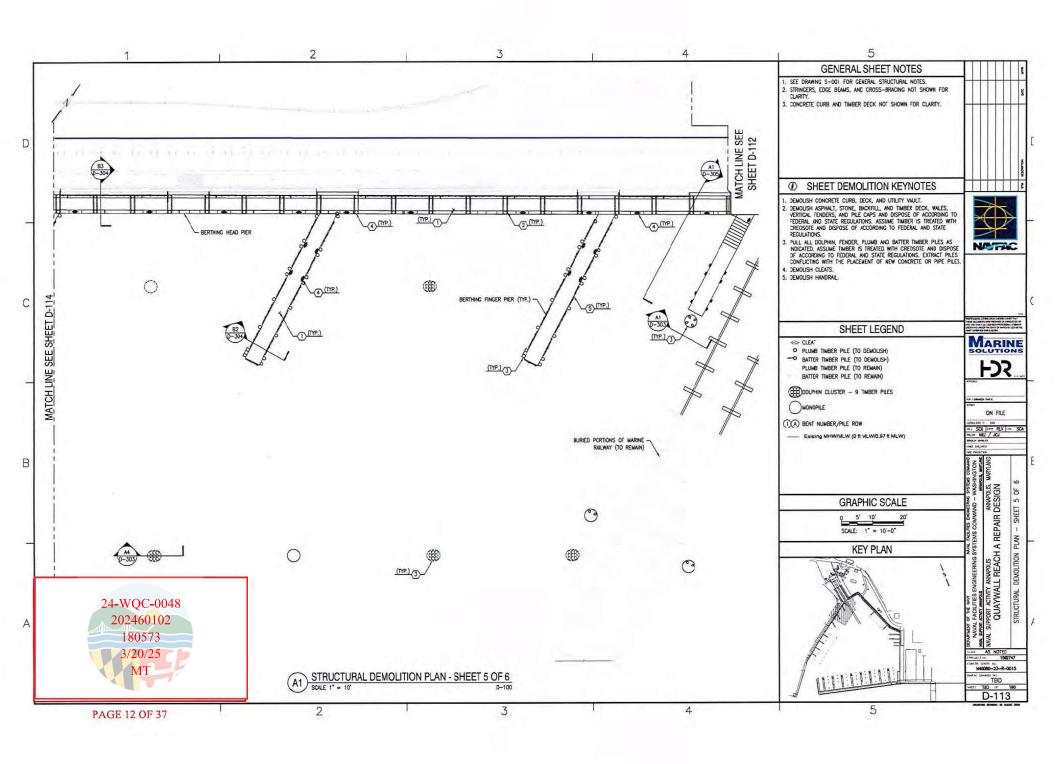


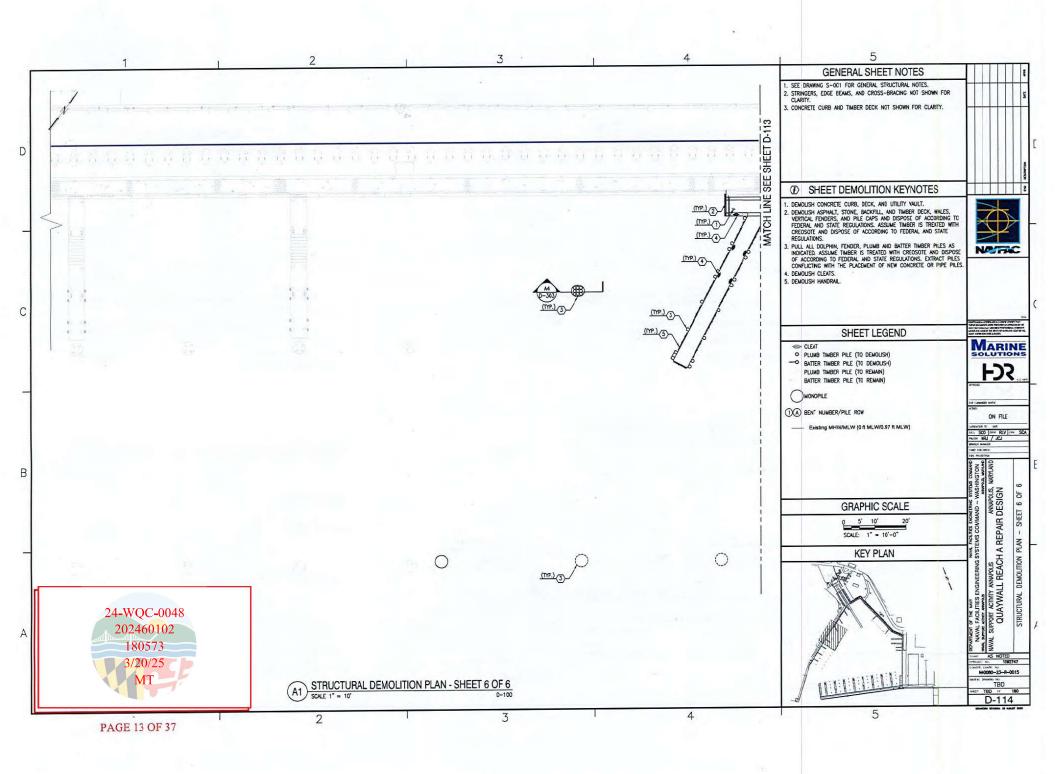


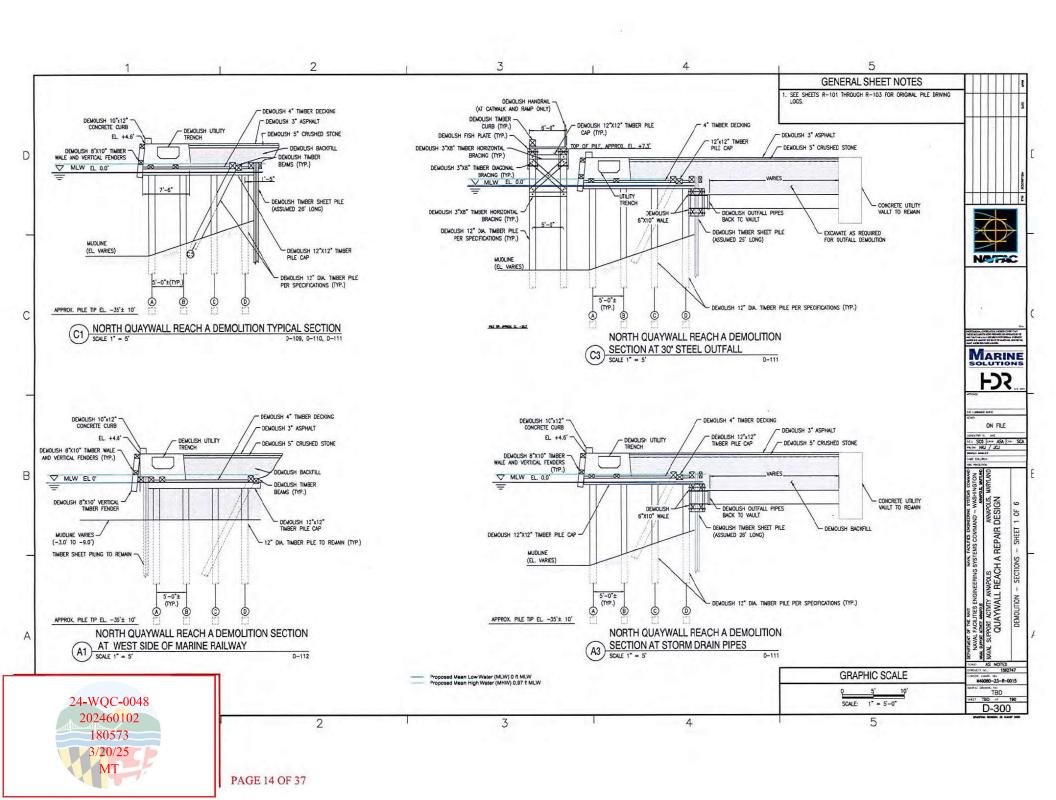


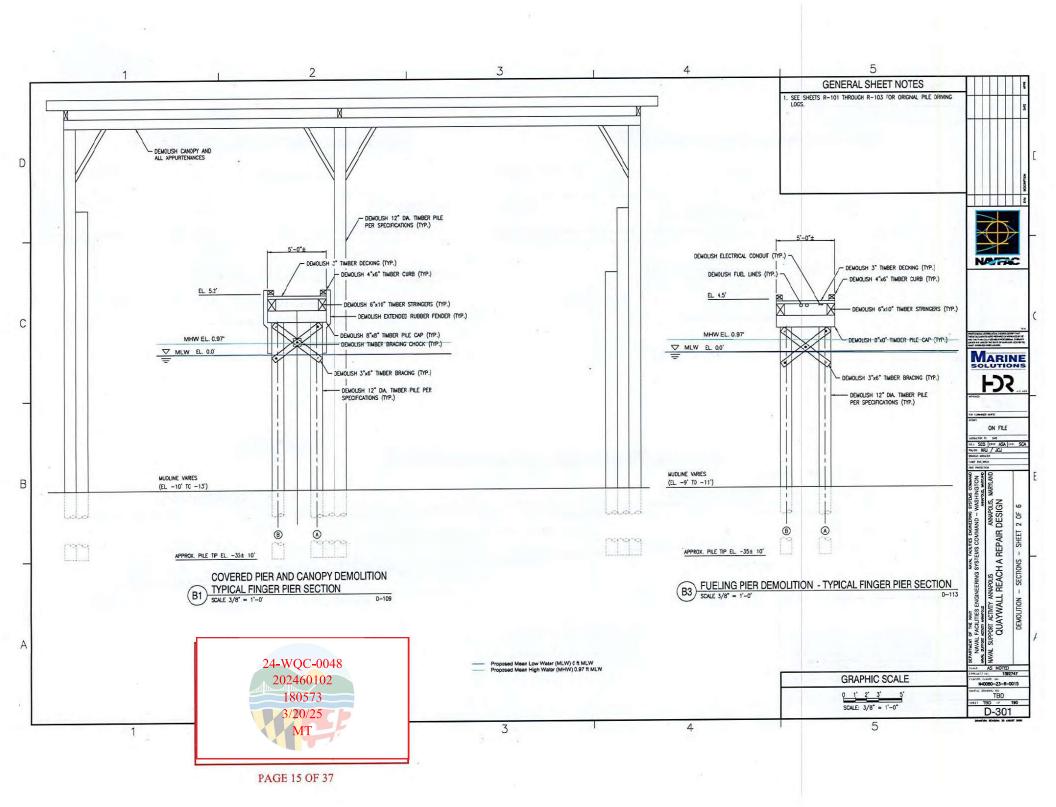


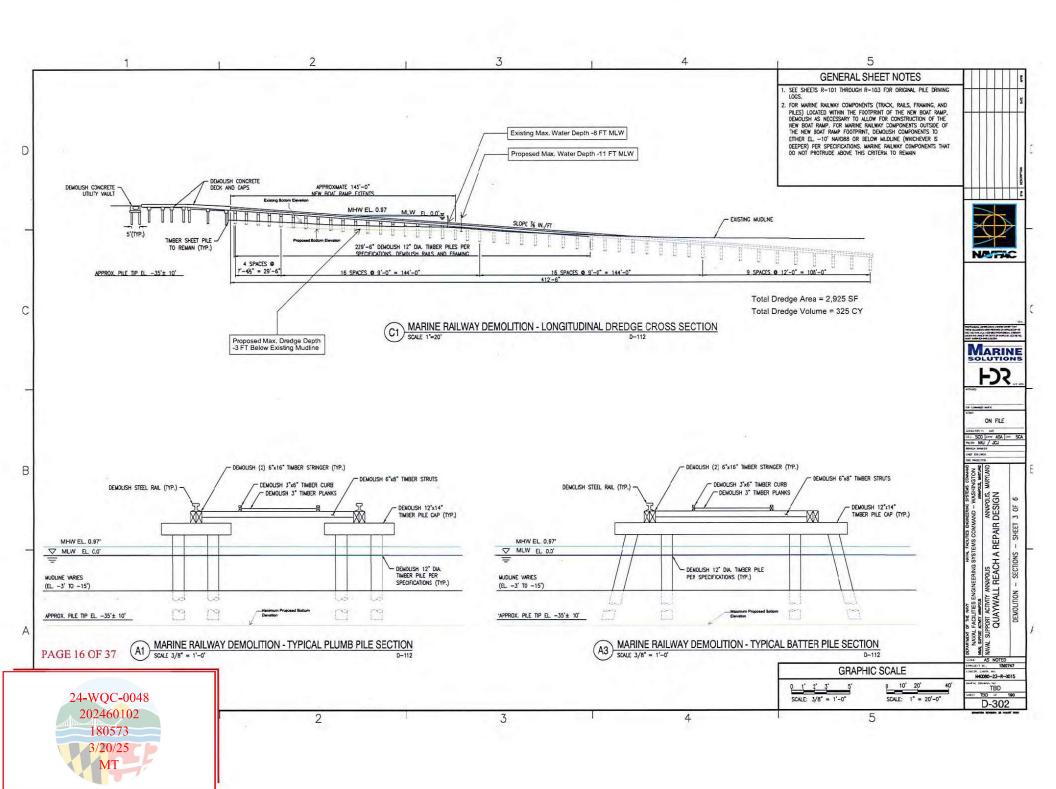


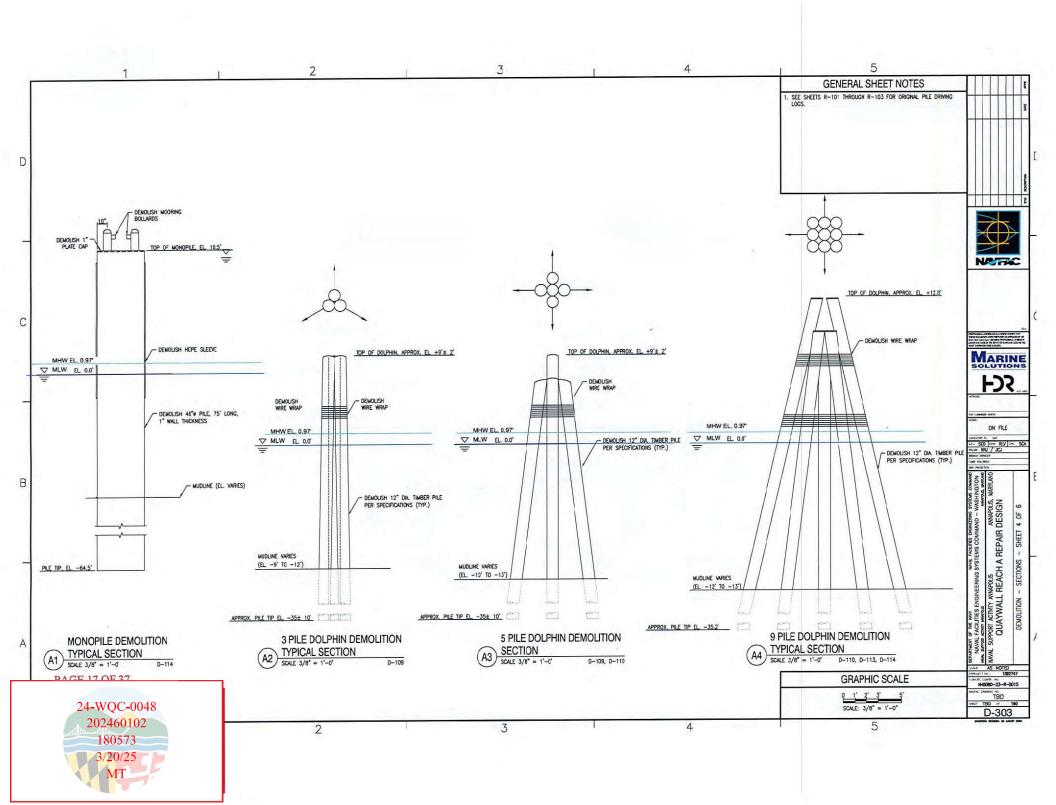


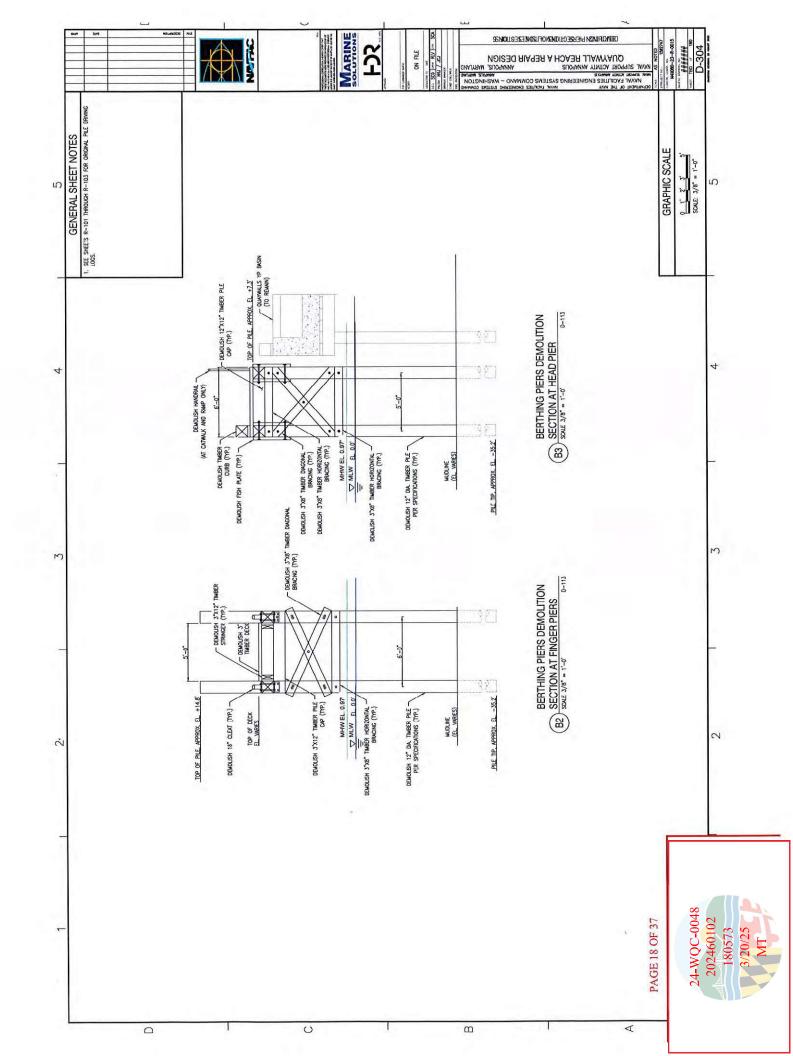


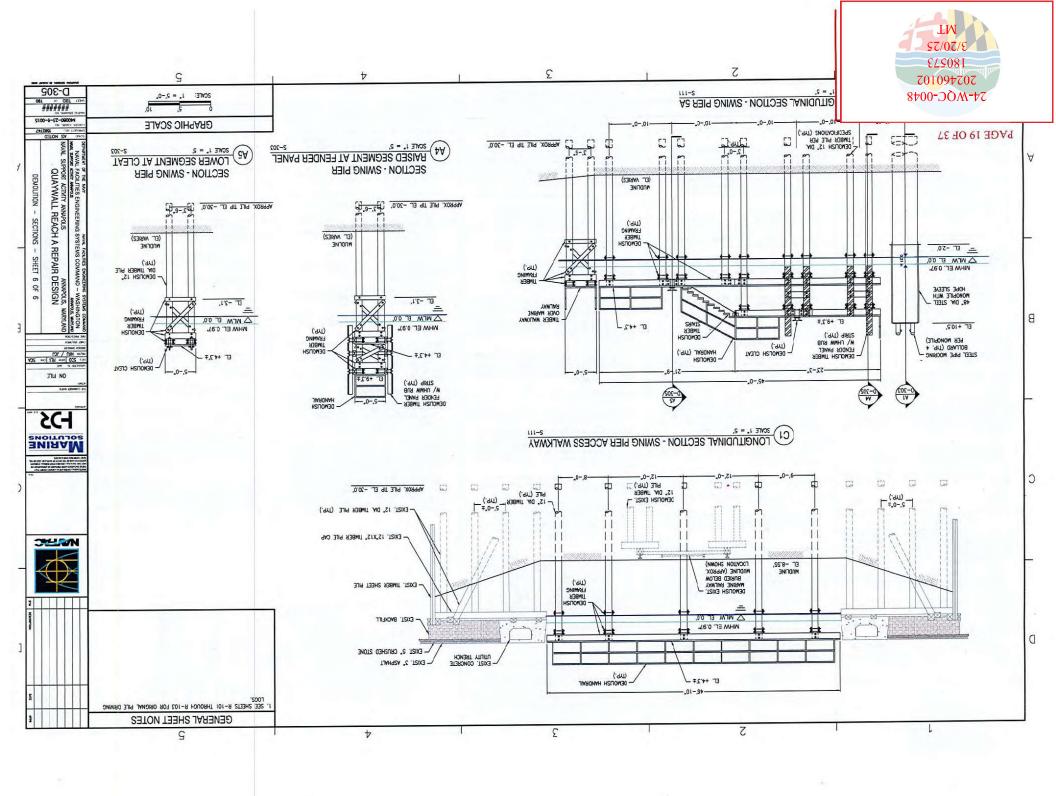












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| AND - WA | 7. PROBE CHANNEL BOTTOM AND REMOVE OBSTRUCTIONS PRIOR TO DRIVING. | | TO ANCHOR NATALLATION, DETERMINE NEAMS AND NOTIFY THE REWFORCING STEEL BY NON-DESTRUCTIVE MEANS AND NOTIFY THE CONTRACTING OFFICER OF ANY CONFLICTS BETWEEN REINFORCING | 14. EKDEW DRAWINGS FROM OTHER DISCIPLIES AND COORDINATE ALL CONDUIT, ETC. THAT MUST BE INCORPORATED INTO COORDINATE ALL CONDUIT, ETC. THAT MUST BE INCORPORATED INTO COORDINATE ALL CONDUIT, ETC. THAT MUST BE INCORPORATED INTO COORDINATE ALL CONDUIT, ETC. THAT MUST BE INCORPORATED INTO CONDUIT BE INCORPORATED INTO CONDUIT BE INCORPORATED INTO CONDUIT BE INCORPORATED INTO CONDUIT B | STRUCTURAL STEEL |
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| SOUTH NAME OF THE PROPERTY OF | 5. PROVIDE ZERO VOC SPLASH ZONE COATING ON MONOPILES FROM THE TOP OF THE PIPE PILE TO 5'-O' BELOW THE EXISTING MUDLINE DEPTH, PROVIDE A SIMILAR COATING FOR ANY PERMANENT LEFT IN | AND CALCULATIONS DEMONSTRATING THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING WILL BE EVALUATED BY THEIR HANNIG AN PRODUCT. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HANNIG AN | 11. PERSONNEL INSTALLING HORIZONTAL OR OVERHEAD ADHESIVE NICHORS MICH BE QUALIFIED WITH AN ACI ADHESIVE INSTALLER CERTIFICATION. | 12. WHERE CONCRETE IS SLOPED (TOP AND/OR BOTTOM), PROVIDE SLOPED REINFORCING PARALLEL TO THE CONCRETE SURFACE. | 7. CATHODIC PROTECTION MONTIORING STATIONS (PER SPECIFICATIONS): PROVIDE OWE CATHODIC PROTECTION MONTIORING STATION FOR THE SHEET PLES. |
| ROPER'S MANYER WATER MANY TOTA THE TOTAL THE STANCES T | CATHODIC PROTECTION (PER SPECIFICATIONS): AT A MINIMUM PROVIDE. | 5. ACCEPTABLE, ANCHORS ARE PROMOED ABOVE, SUBSTITUTIONS WILL CONSIDERED, OF THE PRODUCT DISCORD. CONSIDERED, OF THE PRODUCT DISCORD OF THE PROPER ANCHORS OF THE PRODUCT PRODUCT DISCORD. ANCHORS ANCHORS WILL CANCER ARE CONTINUED WITH A CONTINUE PRODUCT DISCORD. | INCIPITING WIGHDER SEED IN BUSINESS HAVE CONVENCEMENT OF INCIPITING WHO WIGHDER VERY DOCUMENTED CONFIDENT AFT DEBECONCE IN MOVERNING CHECKE WIGHT WIGHT DEPECT ORALLE MICHIGAN BUSINESS WIGHT OF WARD CASHE WIGHT SEED OF WIGHT OF THE WARD OF WARD WIGHT OF WIGHT OF THE WARD OF WARD WIGHT OF WARD WARD OF WARD WARD WARD WARD WARD WARD WARD WARD | VADADXXIMVEFA 1/4: EXIZING CONCRETE RIEVEE LO Y ENTY PWEITINGE OF EXPLIZED VARIZE EXIZING CONCRETE IN YOULDON' BOTOREN LHE 11: THE YBONE BEONZIONZ (NOIE 10) YABITA MHEN CONCRETE IZ | 6. CATHODIC PROTECTION IS A DELECATED DESIGN (PER ALUMINUM PROVDES 170 POUND ALUMINUM PROVDES 170 POUN |
| SAME STREET, AND | 3. ALL PILE CAPACITICS (ALLONABLE AND ULTIMATE) ARE PROVIDED IN THE TABLE BELOW. 4. DRIVE PILES TO THE MINIMUM EMBEDNENT DEPTHS AS INDICATED IN THE PILE SCHEDULE ON S—600 TO S—603. | OF EASTING FERVENDING STEEL BY NON-DESTRUCTIVE MEATER AND ANGENER STEEL BY NON-DESTRUCTIVE WEIGHT STEEL BY NON-DESTRUCTIVE WEIGHT STEEL BY NON-DESTRUCTIVE WEIGHT STEEL BY NON-DESTRUCTIVE MEATER AND STEEL BY NON | 9. PROVICE INSTALLED, ADHESIVE ANCHRES SCHRELY FIXED IN-PLACE TO PREVENT DISPLACEMENT WHILE THE ADHESIVE CURES. 10. ARRANCE FOR AN ANCHOR MANUFACTURERS REPRESENTATIVE TO | MID MELLED THALL SHOW TO DEPOSITING CONCRETE. COMPANDE OF CONCRETAINGUIDN TOWN, MIDZI BE INDIGONOMIC OFFINED MIDZI BE CIFEMED OF TRIVINGE MID MIDZI EXPOSE CETEM MIDZI BE CIFEMED OF TRIVINGE MID MIDZI EXPOSE CETEM | A BATOE LOB WIGGING ON LOBINMOSH AND ASSET TEEL OF SHEEL IF A GRANCHON THE INCOTORS AND ASSECUTION ASSET THE SHEEL HILD CHORD THE SHEEL HILD CHORD HE WAS ASSET WITH SHEEL HILD CHORD ASSET WITH SHEEL HILD CHORD ASSET WAS ASSETTED ASSETT OF THE CHORD ASSET OF TH |
| FD3 | OF THE TEST PILE REQUIREMENTS ARE INCLUDED IN THE SPECIFICATIONS. | 8. DO NOT DAMAGE EXISTING REINFORGING STEEL IN THE CONCRETE DURING ANCHOR INSTALLATION, UNLESS OTHERWISE NOTED ON OTHE DRAWINGS, PRIOR TO ANCHOR INSTALLATION, DETERMINE LOCATION | B. PROVIDE ANCHORS CLEAN, OIL-FREE, AND FREE OF LOOSE RUST, | SHALL BE USED NOR ANY OMITED EXCEPT BY WRITEN 10. SURFACE OF HORIZOYTAL AND VERTICAL CONSTRUCTION JOINTS 10. | 28 DAYS BEFORE NSTALLING THE FIRST SHEET PILE. 5. PROVIDE ZERO VOC SPLASH ZONE COATING ON BOTH SIDES OF |
| NIRAM NOITUJOS | TEST PILE LOCATIONS ARE INDICATED ON S-101 TO S-105. DETAILS TEST PILE LOCATIONS ARE INDICATED ON S-101 TO S-105. DETAILS TEST PILE LOCATIONS ARE INDICATED ON S-101 TO S-105. DETAILS | TRYINGD LEID I. HE COMMENDEMENT DE INSTITTING MICHORS' COMBENSUON JEWE LEISCOMMET, MEND INSTITT WICHORS YEE DOMERS, SEBAESZENIEVIE, WIST RECEPE DOORMENED. LEONIERWIJON JEWE SEBONACE MEND MICHORISTING OBJOCKS MICHORISTING OF THE SEBONACE MEND MICHORISTING OBJOCKS MICHORISTING OBJOCKS LEONIERWIJON JULIUS JEWE SEBONACE LEONIERWIJON JEWE SEBO | PRIOR TO ADHESIVE INJECTION, AS REQUIRED BY THE DRIVES HIND INSTRUCTIONS, PROTECT DRILLED AND CLEAVED MACHOR HOLES FROM CONTAMINATION UNTIL THE ADHESIVE IS INSTALLED. | 9. SUBBILT A PLAN INDICATING THE TYPE AND LOCATION OF EACH CONTRACTION JOINT, FINAL JOINT LOCATIONS, ONCE THE CONSTRUCTION JOINT FLAN IS APPROVED, NO ADDITIONAL JOINTS ON STRUCTIONAL JOINTS | ANALULES BETWEEN STEEL SHEET PILE AND TIMBER SHEET PILE. ** SUBMIT SPECIFICATION OF PAMEER OR MBRATORY DRIVER TO BE ** SUBMIT SPECIFICATION OF FAMEER PILE BULGHEAD A MINIMUM OF ** SUBMIT SPECIFICATION OF SHEET PILE BULGHEAD A MINIMUM OF |
| COT BRATANTO CO SELLE SALLA LI MATE SELLE SELLE IN PROCESSIONAL MERCHANI LA PROPERTIE DE PROCESSIONAL SELLE SELLE SELLE SELLE SELLE INCLUMENTAL SELLE SELLE SELLE SELLE INCLUMENTAL SELLE SELLE INCLUMENTAL SELLE SELLE INCLUMENTAL SELLE SELLE INCLUMENTAL SELLE SELLE INCLUMENTAL SELLE INCLUME | PIPE PILES | 7. ARRANCE FOR AN ANCHOR MANUEACTURER'S REPRESENTATIVE TO | IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION 7. PROVIDE THOSOUGHLY CLEANED AND ROUGHENED ANCHOR HOLES | 8. DETAL SPLICES FOR REINFORCING BARS NOT DIMENSIONED ON THE DRAWINGS AS TABULATED ON SHEET S-002. | 2. FILL AREA BEHIND STEEL SHEET PILE WALL WITH FREE DRAINING |
| | 5. PROBE CHANNEL BOTTOM AND REMOVE OBSTRUCTIONS PRIOR TO DRIVING. | 6. INSTALL MECHANICAL ANCHORS WITH TRANSER'S PRINTED INSTALLATION IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATIONS. | INDICATED ON DRAWINGS, WHICHEVER IS GREATER. 6. INSTALL ADHESIVE ANCHORS WITH TRAINED QUALIFIED PERSONNEL, IN ACCORDINATE WITH THE MANIEACTURES PRINTED INSTALLATION | 7. CHAMEER EXPOSED CONCRETE EDGES 3/4 INCHES UNLESS | C. MINIMUM TIP ELEVATION: +5.5' |
| | PRICE TO THE MINIMUM EMBEDMENT DEPTHS AS INDICATED IN THE PILE SCHEDULE ON S-600 TO S-603. | INDICATED ON DRAWINGS, WHICHEVER IS GREATER. | INCHES TO ANY FREE EDGE OF CONCRETE OR EDGE DISTANCE OF 3 | 6. SUBMIT RENFORCING STEEL DETALLS (SHOP DRAWINGS) AND RECEIVE APPROVAL BEFORE PROCEEDING WITH FABRICATION. | D. MINIMUM WEB THICKNESS; 0.5 INCH E. MAXIMUM SECTION HEIGHT, 21 INCH F. MINIMUM GRADE: ASTM ASTZ GRADE 60 |
| HENN | 3. ALL PILE CAPACITIES (ALLOWABLE AND ULTIMATE) ARE PROVIDED IN THE TABLE BELOW. | | COMPRETE STREWGTH AT THE THE OF ADHESIVE ANOHOR INSTALLATION MUST MEET 75% OF THE MINIMUM 28 DAY | B. OTHER LOCATIONS | A MINIMUM S _x = 75 IN/FT B. MINIMUM S _x = 740 IN/FT C. MINIMUM FLANCE THICKNESS; 0.65 INCH |
| | 2. TEST PILE LOCATIONS ARE INDICATED ON S-101 TO S-105. DETAILS OF THE TEST PILE REQUIREMENTS ARE INCLUDED IN THE SPECIFICATIONS. | 4. CONCRETE STRENGTH AT THE TIME OF MECHANICAL ANCHOR INSTALLATION MUST MEET 75% OF THE MINIMUM 28 DAY | 3. PROVIDE TYPE 316 STAINLESS STEEL ANCHORS. | A BARS IN CONCRETE CAST ACAINST AND PERMANEULLY REPOSED TO EASTH OR CRAVEL OR EXPOSED TO WATER | 1. PRONDE STEEL SHEET PILE FOR REACH A BULNHEAD THAT MEETS THE FOLLOWING CRITERIA: |
| \longleftrightarrow | 1. PROVIDE CONCRETE PILES WITH F'C OF 6,000 PSI, | MITH ESR-2502 | 2.5. RED HEAD A7+ IN ACCORDANCE WITH ESR-3905 IN CONORETE PER AGI 318-14 CHAPTER 17 AND AGI 355.4 | 6. UNLESS WOTED OTHERWISE ON THE DRAWINGS, THE CONCRETE COVER FOR REINFORCEMENT MUST BE: | STEEL SHEET PILE |
| | DRESTRESSED CONCRETE PILES | 2.2. DEWALT POMER-STUC SD6 WEDGE ANCHOR IN ACCORDANCE WITH ESR. JOJY 2.3. DEWALT POMER-STUC SD6 WEDGE ANCHOR IN ACCORDANCE | EZBE-402) IN CONCREIE PER ACI 318-14 CHAPTER 17 AND CONCREIE PER ACI 318-14 CHAPTER 17 AND ACI 355.4 THI-PER 500 V3 IN ACCORDANCE WITH EXEST ON VIOL 355.4 THI-PER 500 V3 IN ACCORDANCE WITH EXESTS ON THE 500 | * PROVIDE REINFORCEMENT STEEL CONFORMING TO ASTM A1035 CS GRADE 100 DEFORMED BARS FOR ALL MARINE CONCRETE, FOR ALL OTHER CONCRETE REFER TO SPECIFICATION 03, 30, 00. | * PRECAUTONS MUST BE TAKEN TO AVOID AND/OR LIMIT DEBRIS FROM ENTER NUST BE REMOVED AS SOON AS POSSIBLE. |
| | 1. STAIRS, GANGMAYS, AND ACCESS PLATFORMS SERVICING THE FINGER PIER AND FLOATING DOOKS SHALL MEET THE DESIGN CRITERIA AS OUTLINED IN THE SPECIFICATIONS SPECIFICATIONS AND AS INDICATED | 2. THE FOLLOWING ARE NO AREONORICH ANCHOR IN ACCORDANCE WITH A CROSSESS. 2. THE FOLLOWING SYSTEMS: 3. THE FOLLOWING SYSTEMS: 3. THE FOLLOWING SYSTEMS: 4. THE FOLLOWING SYSTEMS: 5. THE FOLLOWING SYSTEMS: 5. THE FOLLOWING SYSTEMS: 5. THE FOLLOWING SYSTEMS: 6. THE SYSTEMS: 6. THE SYSTEMS: 6. THE SYSTEMS: 7. THE SYSTEMS: | 2. THE FOLLOWING ARE APPROVED ADMESTIC AUCHORING SYSTEMS: ADMESTIC AUCHORING SYSTEMS IN CONCRETT WIST BE COULDED FOR USE IN | REINLONCCRENT!, DETAILS HO DETAILUG OF CONCRETE 3. DETAIL REINFORCING STEEL IN ACCORDANCE WITH AMERICAN | DESICHED' EINBRISHED' WID INZERFECTION MINZL BE CONFIERED COMPLETED COMMITTEE BLYCES OF CONSTRUCTION MINZL BE 2 STACES OF CONSTRUCTION MINZL B |
| | ON G-201. ACCESS PLATFORMS | MECHANICAT ANCHORS IN CONCRETE MICH. BE CHARTIED FOR USE THE STRENCTH RECUREMENTS FOR TIZ USE, MECHANICAL COMMERTANCE, EVOH MECHANICAL MOST BE CHARTICAL COMMERTANCE. | ANCHORVCE DESIGN IS IN YCCORDANCE MILH YCI 218-14 THE CREE BRITCHINES WENESHES WEE NOL BERMILES WEREENE ANCHORS ASJEM WINZL SYLIZEL, THE EJERVELH BEGNIEGMENIZ LOB ANCHORS IN CONCREIL AND COMMENTANT. FECH OPHESINE | 2. DETAL AND CONCRETE, INSTITUTE (ACI) 301, "SPECIFICATION FOR STRUCTURAL CONCRETE," FOR STRUCTURAL CONCRETE," | 2. LOCATIONS OF BORINGS. SERIES DRAWINGS. |
| | 7. BEOUNDE SZYZEM TO MEET GEOMETRIC REQUIREMENTS AS INDICATED S. PRONDE, SYZEM TO MEET GEOMETRIC REQUIREMENTS AS INDICATED S. PRONDE, SYZEM TO MEET GEOMETRIC REQUIREMENTS AS INDICATED | ANCHORACE TO CONCRETE MUST CONFORM TO THE REQUIREMENTS OF THE MOST RECENTLY PUBLISHED ACI 355.2, "QUALIFICATION OF POST-INSTALLED MECHANICAL ANCHORS IN CONCRETE AND | ANCHORAGE TO CONCRETE MUST CONFORM TO THE REQUIREMENTS OF THE MOST RECENTLY PUBLISHED ACI 355.A, "ACCEPTANCE CRITERIA FOR QUALIFICATION OF POST-INSTALLED ADHESIVE | SPECIFICATIONS). SPECIFICATIONS). | BEFORE PROCEEDING WITH WORK. DECREMANIES TO THE ATTENTION OF THE CONTRACTING OFFICER BEFORE PROCEEDING WITH WORK. |
| | DEPLOYABLE SELF-ADJUSTING STAIRS | POST-INSTALLED MECHANICAL ANCHORS 1. THE MECHANICAL ANCHORS | POST-INSTALLED ADHESIVE ANCHORS THE ADHESIVE ANCHOR SYSTEM USED FOR POST INSTALLED | 1. PROVIDE MARINE CONCRETE AND MARINE CONCRETE FILL WITH A | 1. FIELD VERIFY DIMENSIONS, LOCATIONS, AND ELEVATIONS SHOWN ON |
| | | | GENERAL STRUCTURAL NOTES | | |
| أعاجاجاجا | g | b | \$ | 7 | |

