



William Morgante, PWS
Wetlands Administrator

State of Maryland
Board of Public Works
Wetlands Administration

80 Calvert Street, Room 117, Annapolis, Maryland 21401
410-260-7791

Wes Moore
Governor

Dereck E. Davis
Treasurer

Brooke Lierman
Comptroller

John T. Gontrum, Esq.
Executive Secretary

WETLANDS LICENSE NO. 24-0757(R1)
MARYLAND TRANSPORTATION AUTHORITY

A modification (pursuant to COMAR 23.02.04.17.B.(1)) was made to the original license. Changes to original license language are shown with a strikethrough, and revisions shown with bold type.

The Maryland Board of Public Works authorizes you to:

- I. Rebuild the Francis Scott Key Bridge **260 feet to the east of the original bridge alignment** ~~within the same alignment~~ within MDTA's existing right-of-way (ROW), extending approximately 1 mile over the Patapsco River. The bridge will be constructed to current design standards and consist of four 12-foot wide lanes, with two 10-foot wide outside shoulders and two 4-foot wide inside shoulders and will have an air draft of approximately 230 feet over the 800-foot-wide authorized Fort McHenry Navigation Channel and will result in 9.50 acres of coverage over the Patapsco, ~~12.71~~ **0.56** acres of permanent impact to State Tidal Wetlands, and ~~9.19~~ **5.98** acres of temporary construction impacts to State Tidal Wetlands. The ~~12.71~~ **0.56** acres of permanent impacts include the following:
 - a ~~8,736-square foot (0.2-acre) piers~~ **Six main span bridge piers supported on 130 (96-inch) piles resulting in 6,536 square feet of impact;**
 - b ~~Three 5,600-square foot (0.13-acre) piers with six~~ **Six main span pier protection fender structures supported on 278 (96-inch) piles resulting in 13,974 square feet of impact** ~~4,418-square foot (0.10-acre) associated dolphins~~
 - c **Four bridge piers supported on 72 (48-inch) piles resulting in 904 square feet of impact;**
 - d ~~Two 96,768-square foot (2.22 acres) piers with associated stone fill;~~ **One bridge pier supported on 30 (48)-inch) piles resulting in 377 square feet of impact;**
 - e ~~d Two piers with associated fill totaling 264,560 square feet (6.07 acres) to support the 550-foot tall bridge towers and bridge span over the federal channel.~~ **One bridge pier foundation, on the bottom, resulting in 2,592 square feet of impact.**The ~~9.19~~ **5.98** acres of temporary impact include the following:
 - f ~~e Approximately 400,000 square feet of temporary trestle on each shoreline that includes marine access piers on each shoreline and multiple finger piers along the trestle~~ **149,466 square feet (3.43 acres) of temporary trestle providing construction access from Sollers Point and 111,120 square feet (2.55 acres) of temporary trestle providing access from Hawkins Point each with multiple finger piers along the trestle;**
 - g ~~1,200~~ **36-inch temporary trestle piles;**
 - h ~~g~~ **300 36-inch temporary mooring/template piles.**

This License does not comment or opine on the full environmental impact of the allision, collapse of the Key Bridge, and subsequent activities, which remain subject to further investigation and are the subject of ongoing litigation.

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*Patapsco River, Francis Scott Key Bridge, Baltimore City and Dundalk,
Baltimore and Anne Arundel Counties, Maryland*

Issuance of this Tidal Wetlands License constitutes the State's determination that the authorized activities are consistent with the Maryland Coastal Zone Management Program (CZMP), as required by Section 307 of the Federal Coastal Zone Management Act of 1972, as amended [16 U.S.C. §1456]. Accordingly, the State concurs with the Licensee's certification in the Joint Permit Application that the project complies with and will be conducted in a manner consistent with the Maryland CZMP.

**THIS LICENSE AUTHORIZES YOU TO PERFORM THE WORK ONLY IF YOU
COMPLY WITH THE FOLLOWING SPECIAL CONDITIONS:**

- A. To protect important aquatic species in tidal waters, pile driving activities are prohibited between February 15 and June 15, inclusive of any year, unless specifically approved by the Tidal Wetlands Division (Division). If any in-water pile driving activities are requested during the restriction period, the Licensee shall coordinate with the Division and the Maryland Department of Natural Resources (DNR) for avoidance and minimization measures and shall receive approval from the Division prior to commencement of the activity.
- B. To minimize disturbance to the wintering and staging waterfowl areas in tidal waters as depicted on Attachment I, in-water work is prohibited from November 15 through March 1 inclusive, of any year, unless specifically approved by the Division. If any in-water work is requested during the restriction period, the Licensee shall coordinate with the Division and DNR for avoidance and minimization measures and shall receive approval from the Division prior to the commencement of the activity.
- C. If any mooring, pile driving, and in-water work overlap within the Fort Carroll Sensitive Species Project Review Area (SSPRA) as depicted in Attachment I, the Licensee shall coordinate with the Division and DNR's Environmental Review Program for minimization and avoidance measures and shall receive approval from the Division prior to commencement of the activity.
- D. To protect **Fort Carroll Oyster Sanctuary and Oyster Restoration Sites** ~~Natural Oyster Bars (NOBs)~~, the Licensee shall not conduct in-water work within **the 1,500-foot Buffer** (500 yards) of the edge of ~~NOBs or oyster sanctuaries and the Oyster Restoration Sites~~ located within the Fort Carroll SSPRA as depicted in Attachment I during the periods of June 1 through September 30 and December 16 through March 14 inclusive, of any year, unless specifically approved by the Division. **This time of year restriction has been waived for geotechnical borings, test piles, trestle construction, and new bridge construction through March 15, 2027 within the Oyster Sanctuary and Oyster Restoration Sites or NOB 1500-foot Buffer; however, no bottom disturbing activities shall be conducted within the boundaries of the Fort Carroll Oyster Sanctuary and Oyster Restoration Sites or NOBs (natural oyster bar areas identified on Attachment I) during the time of year restriction.** If any additional in-water work is required during the restriction period, the Licensee shall coordinate with the Division and DNR **ERP** for avoidance and minimization measures and shall receive approval from the Division prior to the commencement of the activity.
- E. Avoidance and minimization of impacts to tidal wetlands shall be emphasized throughout the remainder of the design and construction process.

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- F. Tidal In-Water Construction Plan (TIWC Plan): No activity that impacts regulated tidal resources shall commence prior to the Division's approval of a TIWC Plan. The TIWC Plan shall be submitted for review and approval at least 30 days prior to the commencement of any work authorized under this License. The Licensee shall implement and comply with the TIWC plan in accordance with the approved plan. The TIWC Plan shall ensure consistency with License conditions and water quality regulations. The TIWC Plan shall include detailed support for the implementation of appropriate practices to protect water quality, marine life, and estuarine habitat, and mitigation/recovery plans for unavoidable/unexpected impacts, and address the following at a minimum:
- i. The use of best management practices to protect water quality, marine life, and habitat during and after construction such as bubble curtains and other applicable best management practices;
 - ii. Pile driving shall be performed in a manner that allows for a zone of passage to exist in the river at all times, **or as indicated in the approved TIWC Plan**, to allow migrating, resting, or foraging fish to continue their behaviors while the project is ongoing. Time of work restrictions **shall be** developed in consultation with the Division and DNR;
 - iii. Hold Points:
 1. The TIWC Plan shall stipulate conditions leading to "hold points," which would stop pile driving, or other in-water work injurious to marine life until coordination has occurred with DNR's Environmental Review Program if any of the following is observed during or immediately (approximately 1 hour) after pile driving activity related to hammer activities:
 - (a) Presence of ~~dolphin~~, sea turtle, or sturgeon within the injury or behavioral modification zone- as shown in the approved TIWC Plan;
 - (b) One stunned or dead sturgeon and/or dolphin;
 - (c) Ten stunned or dead game fish or species considered to be in need of conservation per pile location, including all Striped Bass, Alewife, Blueback Herring, American Shad, and others as identified by DNR;
 - (d) 40 stunned or dead non-game fish per pile location.
 2. The TIWC Plan shall include detailed provisions for the required monitoring of the presence of dolphins, sea turtles, and sturgeon and for documenting and reporting injury or death in accordance with the above requirements. If any of the above are observed, the Licensee shall contact the DNR Environmental Review Program within 1 business day for agency coordination and adaptive management.
 3. The Licensee shall submit a weekly report to the Division and DNR while in-water tidal construction activities are ongoing summarizing the work and documenting the total injured/killed fish, including species and size of all injured/killed fish, approximate location relative to where the pile driving or noise-generating activity was occurring, and time/date. A final report summarizing the fish kills associated with construction shall be submitted to the Division within 60 days of completion of the construction.
 4. The TIWC Plan shall detail coordination and approval procedures for the release of hold points.
 5. **The TIWC Plan shall detail provisions for dolphin protection in accordance with the Marine Mammal Protection Act and any Incidental Harassment Authorizations issued by NOAA Fisheries.**

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- iv. Noise management including provisions ~~for a “zone of safe fish passage,”~~ and for the reduction of in-water noise;
 - v. Construction plans for in-water work shall be submitted for review and receive approval from the Division prior to the start of construction for each plan set and shall follow the submittal requirements listed under Special Condition 13;
 - vi. The Licensee shall comply with all approved plans, best management practices, and avoidance measures, and the project shall comply with all relevant water quality standards listed in COMAR at all times;
 - vii. The TIWC Plan can only be modified upon approval by the Division;
 - viii. Process for submission, agency review, and approval of in-water construction plans, revisions, and, if necessary, permit modifications.
- G. The Licensee shall provide compensation for fish mortality. The Licensee shall provide payment into a Special Fund as designated by DNR. Monetary values associated with fish kills shall be evaluated in accordance with the Fish Mortality Mitigation Cost Table depicted in Attachment II.
- H. Water Quality Monitoring Plan (WQM Plan):
Ensure water quality standards are maintained in tidal waters during the duration of the Project.
- a. No activity that impacts tidal regulated resources shall commence prior to the Division’s approval of a WQM Plan. The WQM Plan shall be submitted at least 30 days prior to the commencement of any work authorized under this License. The Licensee shall implement and comply with the WQM plan in accordance with the approved plan. The WQM Plan shall ensure consistency with the conditions of this License.
 - b. The WQM Plan shall contain the water quality criteria and benchmarks for which the Project shall be monitored and documented to ensure consistency with the requirements of the Clean Water Act, COMAR 26.08.02, and conditions in this License, including, at minimum, applicable total suspended solids/turbidity, temperature, dissolved oxygen, conductivity, salinity, and pH criteria.
 - c. The WQM Plan shall also contain monitoring methodology, monitoring locations, reporting schedule(s), quality assurance/quality control procedures, and corrective action plans.
 - d. The WQM Plan can only be modified upon approval by the Division.
- I. **Significant/Severe Weather and Flood Action Plan (SWFA Plan):**
Ensure water quality standards are maintained during significant weather events.:
- a. No activity that impacts regulated resources shall commence prior to the Division’s approval of a SWFA Plan. The SWFA Plan shall be submitted at least 30 days prior to the commencement of any work authorized under this License. The Licensee shall implement and comply with the SWFA plan in accordance with the approved plan. The SWFA Plan shall ensure consistency with these License conditions.
 - b. The SWFA Plan shall include the following:
 - ix. Weather and the possibility of a rainfall/wind event shall be monitored on a daily basis, seven days a week through the National Oceanic and Atmospheric Administration. When a significant weather event is forecast, appropriate actions shall be taken to protect water quality including review and repair of erosion and sediment control measures, securing all equipment, addressing material storage and stockpile areas, and other sources of potential pollution. A significant weather event is a greater than 50 percent chance of 1 inch or more rainfall forecast during a 24-hour period within the watershed or probability of gale force winds.

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- x. Storm surges - Identify and address areas susceptible to storm surge and make provisions to remove materials, equipment, and other potential contaminants prior to inundation.
 - xi. No equipment, construction materials, or hazardous materials, including fuel for equipment and pumps, shall be stored within the 100-year floodplain unless otherwise approved.
- c. The SWFA Plan can only be modified upon approval by the Division.
- J. Prior to the start of construction, the Licensee shall retain a minimum of one qualified full-time Independent Environmental Monitor (IEM) who is independent of the Licensee, design consultants, and construction contractors working on the project. The Licensee shall retain an IEM(s) to assess compliance with all conditions of this License and other applicable permits and environmental regulations. The Licensee shall develop a project-specific IEM Manual detailing all IEM responsibilities and procedures and submit the manual to the Division for review and approval prior to implementation. The Division shall be provided the opportunity to review the qualifications of the IEM(s) proposed by the Licensee and provide concurrence that the candidate is qualified to perform the IEM role. More than one IEM may be needed to adequately staff the project depending on schedule and construction phasing. The IEM(s) shall
 - a. Review design submittals and construction activities for compliance with all conditions of this License and other applicable permits and environmental regulations;
 - b. Report findings directly and concurrently to the Division and the USACE, notifying them and the Licensee immediately of any reported or observed violations or noncompliance issues within the terms or conditions of this License, or approved plans and specifications;
 - c. Assist with and verify the Licensee's monitoring of potential impacts on aquatic life resulting from construction activities.
 - d. Document impacts to regulated resources by developing and maintaining a detailed tracking list of impacted resources;
 - e. Assist with the identification of ongoing opportunities for further avoidance and minimization of impacts to regulated environmental resources and protection of water quality;
 - f. Assist with the identification of any marine life injuries related to construction activities.
- K. Construction Plans

Submit approved plans impacting tidal wetlands before construction. Each plan submission shall include a brief summary of avoidance and minimization efforts, or, for plans that have been previously reviewed by the Division, a summary of plan changes related to regulated resources. Ensure water quality standards are maintained during significant weather events.:

 - a. Stormwater Management (SWM) Plan: Submit the final SWM Plans to the Division prior to beginning SWM construction activities. The final stamped plans, and any proposed modifications to those plans, shall be submitted to the Division.
 - i. No SWM structures shall be placed in any tidal wetlands.
 - b. Erosion and Sediment Control Plan: Submit the approved construction plans and subsequent modifications to the Division.
 - c. Approved Plans: The Licensee shall develop and maintain a searchable database of approved plans (including all revisions) for use by the Division and other agencies. The database must segregate the latest approved plans from previous versions so that reviewing personnel can reliably determine the most current plans.

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- L. A pre-construction meeting shall be held with the Division, MDE Compliance Program, the USACE, MDTA, the IEM, BPW Wetlands Administration, other agency stakeholders as available, and MDTA's primary contractors and subcontractors to provide the opportunity for all to review and discuss the construction plans and license conditions. All meeting participants shall be notified of this meeting a minimum of 14 days prior to the date of the meeting.
- M. The Licensee shall install appropriate hazard notification, visibility, and safety requirements on all temporary pilings, temporary structures, or monitoring devices in tidal waters.
- N. The use of barges, trestles, or other structures and equipment by the Licensee shall not impede the free flow of navigation on the Patapsco River unless approved by the U.S. Coast Guard.
- O. The Licensee shall not allow debris or construction material to enter any tidal wetlands. The Licensee shall implement best management practices and measures such as suspended netting, skip pans, and containment barges to minimize the quantity of material entering these waterways. The Licensee shall immediately remove all debris inadvertently introduced into tidal wetlands as a result of any construction activity. Debris shall be disposed of at an approved upland disposal site and in a manner that does not adversely impact surface or subsurface flow into or out of tidal wetlands.
- P. The Licensee shall submit a General Discharge Permit application (Maryland General Permit No.15-MM) to the Water and Science Administration, Industrial Discharge Permits Division for review and approval, as determined necessary by MDE, prior to the commencement of work at the facility related to the use of any on-site concrete batch facility. The Licensee shall send confirmation of the determination to the Division by MDE's Industrial Discharge Permits Division.
- Q. The Licensee shall obtain approval from MDE for any proposed dredging activities prior to conducting any dredging by submitting a modification to the tidal wetlands license. When applying for authorization from MDE for dredging, the Licensee shall provide detailed information on any proposed dredging method and locations including dredge area, volume of material, and proposed depths, to MDE. The biological, chemical, and physical characteristics of proposed dredging material and sites shall be evaluated and submitted to MDE in a sampling plan for review and approval before starting dredging activities.
- R. Mitigation is required for impacts related to the permanent fill placed in State tidal wetlands in accordance with COMAR 26.24. The Licensee shall submit the proposed mitigation plan to MDE and BPW Wetlands Administration once the final design has been determined and the final permanent impacts have been identified for review and approval. The Licensee shall implement the mitigation plan in accordance with the approved plan and schedule.
- S. The Licensee shall remove all temporary structures from tidal wetlands, or cut at least two feet below the mean mudline, within 6 months following completion of construction under the subject license **and the demolition work under the associated Wetlands License 24-WL-0653.**

**THIS LICENSE AUTHORIZES YOU TO PERFORM THE WORK ONLY IF
YOU COMPLY WITH THE FOLLOWING STANDARD CONDITIONS:**

- 1. Licensee shall conduct the authorized work in accordance with the plans and drawings dated as accepted by MDE on ~~November 4, 2024~~ **October 1, 2025**, which are hereby incorporated into this License.
- 2. Until the authorized work is complete, Licensee shall have available at the site a copy of this License including the plans and drawings.

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3. This License constitutes Maryland's authorization to conduct the authorized work under the State Tidal Wetlands Law. This License does not bestow any other federal, State, or local government authorization.
4. Licensee shall have all proposed work above Mean High Water reviewed and authorized by the local county Department of Planning and Zoning or applicable agency.
5. Licensee shall notify MDE's Compliance Program by BOTH phone AND in writing of the following:
 - (a) start date at least five business days before beginning work; and
 - (b) completion date no more than five business days after project completion.Central Division: 410-537-3510 1800 Washington Blvd, Baltimore, MD 21230
6. Licensee shall comply with any regulations, conditions, or instructions issued by MDE, including any Water Quality Certification issued with respect to the authorized work.
7. Licensee shall conduct the authorized work in accordance with Critical Area Commission requirements. This License does not authorize disturbance in the Buffer. If authorized work will disturb the Buffer, Licensee shall have a Commission-approved or locally approved Buffer Management Plan before beginning the authorized work.

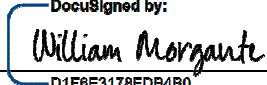
"Buffer" means the 100-foot Critical Area Buffer and any expanded area that is immediately landward of the mean high-water line of the tidal waters or is immediately landward of tidal wetlands. The Buffer includes expanded contiguous area if the contiguous area includes steep slopes, hydric soil, or highly erodible soil, or otherwise meets the criteria of COMAR 27.01.09.01.E(7). "Disturbance" means any alteration or change to the land including any amount of clearing. Clearing includes vegetation removal, grading, and construction activity. **The Commission and MDTA have developed a Memorandum of Understanding (MOU) approving the Key Bridge Rebuild. All activities within the Critical Area and Critical Area Buffer will be performed in accordance with the MOU.**
8. Licensee may not fill, dredge, or otherwise alter or destroy tidal marsh or its vegetation unless this License specifically authorizes the activity.
9. Licensee may not stockpile material in State tidal wetlands/State tidal waters of the U.S.
10. Licensee shall allow unfettered public use of State wetlands/State tidal waters of the U.S. **unless approved by the U.S. Coast Guard for safety reasons.**
11. This License does not transfer a property interest of the State.
12. Licensee shall file a Miss Utility ticket for the proposed work at least 10 days before beginning work. *Miss Utility: 800-257-7777*
13. Licensee shall ensure that structures (for example, piers and piles) removed from the site are taken to an upland disposal facility approved by MDE's Compliance Program.
14. If the authorized work impacts more than 5,000 square feet or includes 100 or more cubic yards of fill, Licensee shall conduct the authorized work in accordance with a locally approved Soil Erosion and Sediment Control Plan.
15. If the authorized work is not performed by the property owner, all work performed under this Tidal Wetlands License 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. A list of licensed marine contractors may be obtained by contacting the MCLB at 410-537-3249, by email at MDE.MCLB@maryland.gov or by accessing the Maryland Department of the Environment, Environmental Boards webpage.
16. Licensee shall allow State officials and employees to make inspections at reasonable times and cooperate with those inspections.

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17. This License is granted only to the Licensee. Licensee may transfer the license only with written approval from the Board of Public Works. If the Board of Public Works approves the transfer, the transferee is subject to all License terms and conditions.
18. Licensee shall indemnify, defend, and save harmless the State of Maryland, its officials, officers, and employees from and against any and all liability, suits, claims, and actions of whatever kind, caused by or arising from, the work this License authorizes.
19. The Board of Public Works or its Wetlands Administrator may modify, suspend, or revoke this License in its reasonable discretion. Licensee shall promptly comply upon notice of any such action
20. This License expires February 12, 2028.
If the authorized work is not completed by the expiration date, all activity must stop.
Note: A three-year license may be renewed for one additional three-year term if the Licensee requests an extension before the expiration date and all other conditions are met. A six-year license may not be renewed; instead, Licensee must reapply to MDE for a new license. Contact the Board of Public Works to determine if this License may be extended.
Board of Public Works: 410-260-7791
21. In conducting work authorized under this license, licensee may not cause injury to private property; invade the rights of others; or infringe any federal, state, or local laws or regulations.
22. Licensee shall maintain any authorize structure in good condition and perform the authorized activity in a workmanlike manner in accordance with this license.
23. In conducting work authorized under this license, licensee shall eliminate or minimize adverse effects on fish, wildlife, and the natural environment.

By the authority of the Board of Public Works:

DocuSigned by:


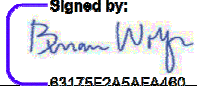
William Morgante
Wetlands Administrator

Effective Date: February 12, 2025
Approved as: Secretary's Agenda Item 8
Board of Public Works Meeting Date: October 1, 2025

I accept this License and all its conditions.

10/17/2025

Date

Signed by:


Licensee (Signature)

Brian Wolfe

Name (Printed)

Director of Project Development

Title

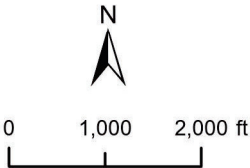
bwolfe3@mdta.state.md.us

Email (to receive completed license)

Attachment I



- Oyster Restoration Sites
- Fort Carroll Oyster Sanctuary
- Oyster Habitat 1500ft Buffer
- Waterfowl Areas
- Sensitive Species Project Review Area



**Francis Scott Key
Bridge
Rebuild**
*Tidal Wetland Wildlife
Protection Areas*



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FSK Bridge Rebuild Project

**Appendix A:
Project Vicinity Map**

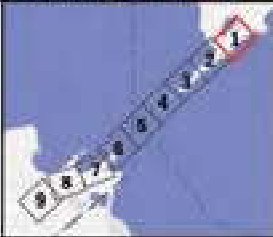
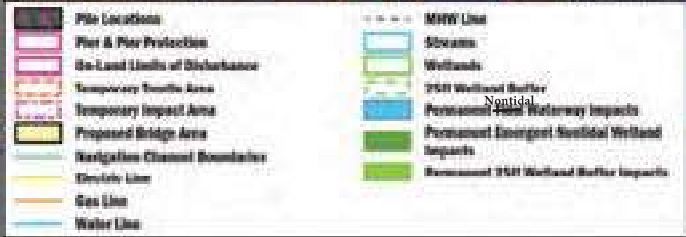
Baltimore City, Baltimore County,
and Anne Arundel County, Maryland
June 2025



 Limit of Disturbance



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- Pile Locations - Pier & Pier Protection - On-Land Limits of Disturbance - Temporary Stream Area - Temporary Impact Area - Proposed Bridge Area - Navigable Channel Boundaries - Stream Line - Gas Line - Water Line	- MHW Line - Stream - Wetlands - PEM Wetland Buffer - Permanent Wetland Waterway Impacts - Permanent Emergent Non-tidal Wetland Impacts - Permanent PEM Wetland Buffer Impacts
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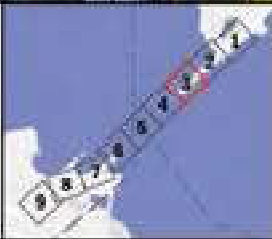
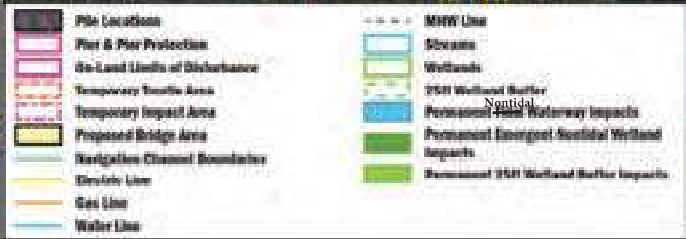
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ADMINISTRATION

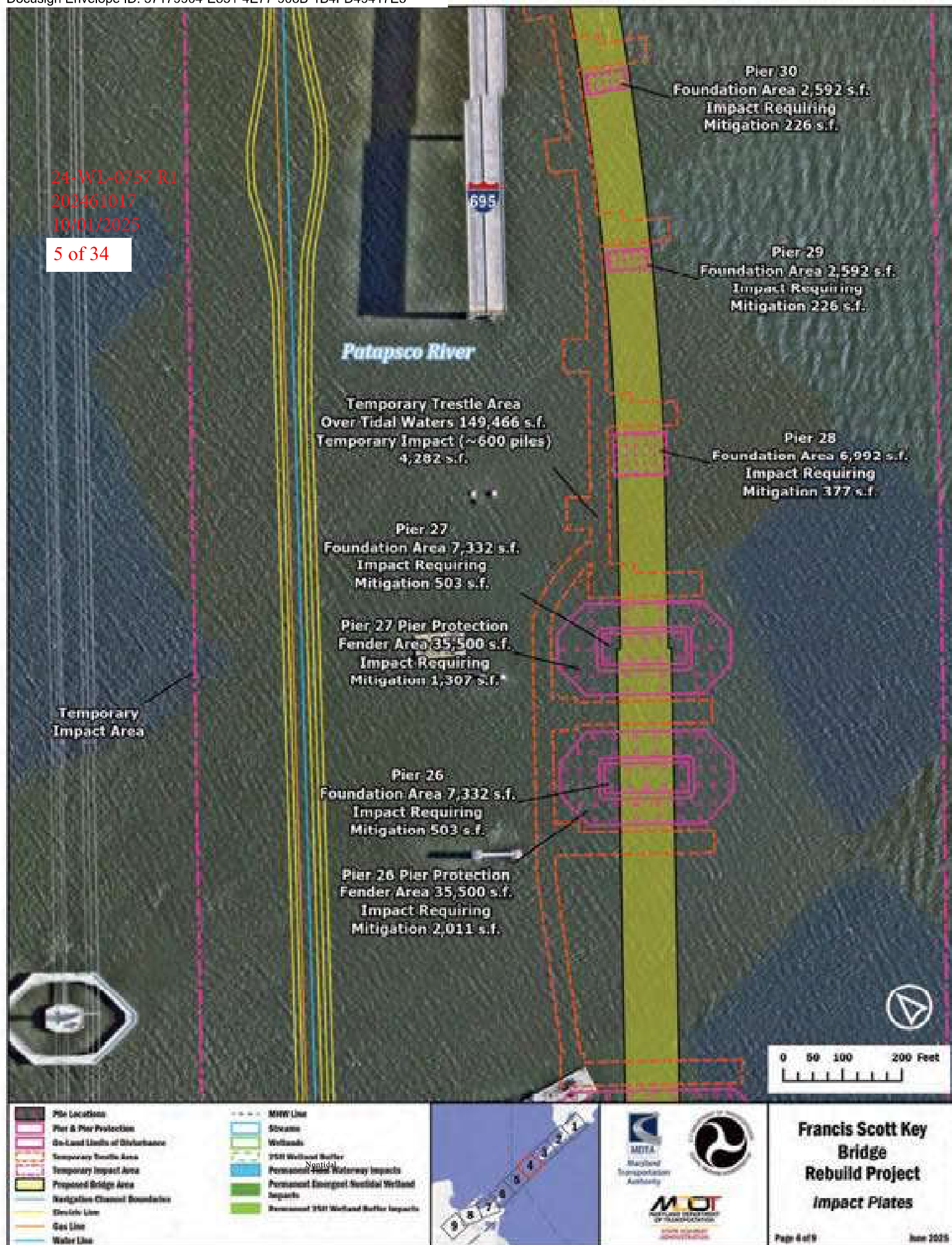
**Francis Scott Key
Bridge
Rebuild Project
Impact Plates**

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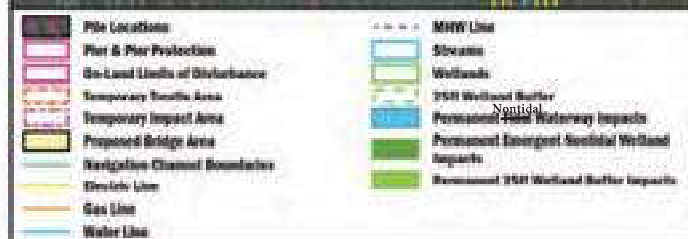
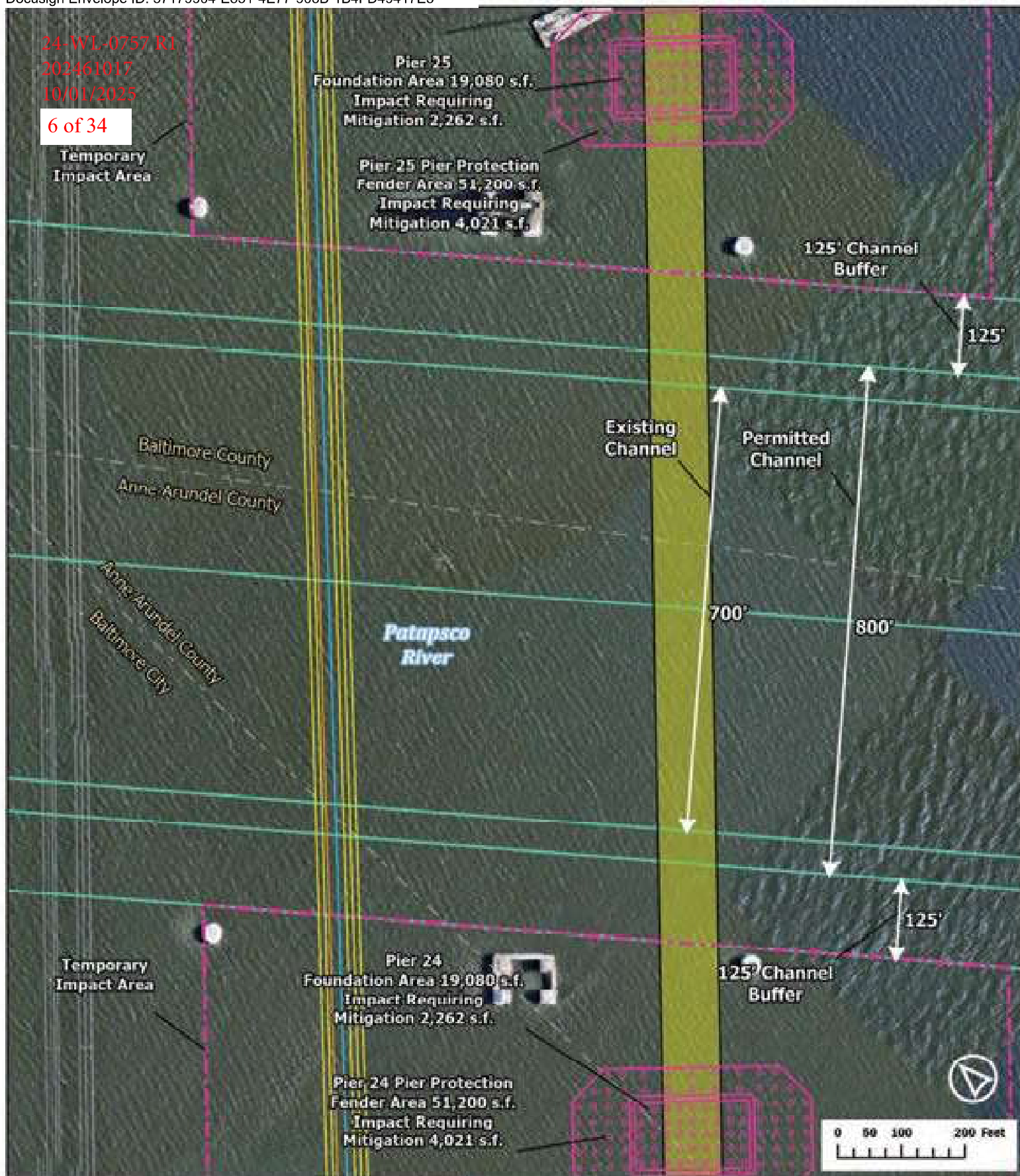
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- Pile Location - Pier & Pier Protection - On-Land Limits of Disturbance - Temporary Swath Area - Temporary Impact Area - Proposed Bridge Area - Navigable Channel Boundaries - Shoreline Line - Gas Line - Water Line	- MHW Line - Streams - Wetlands - PEM Wetland Buffer - Permanent Waterway Impacts - Permanent Emergent Subtidal Wetland Impacts - Permanent PEM Wetland Buffer Impacts			Francis Scott Key Bridge Rebuild Project Impact Plates Page 6 of 9 June 2025
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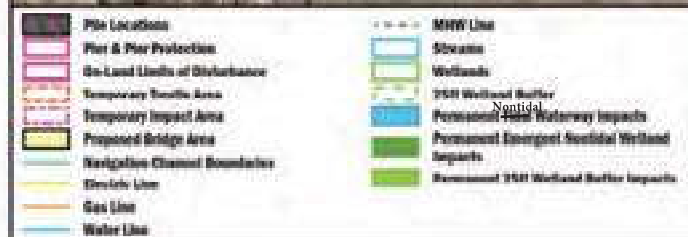
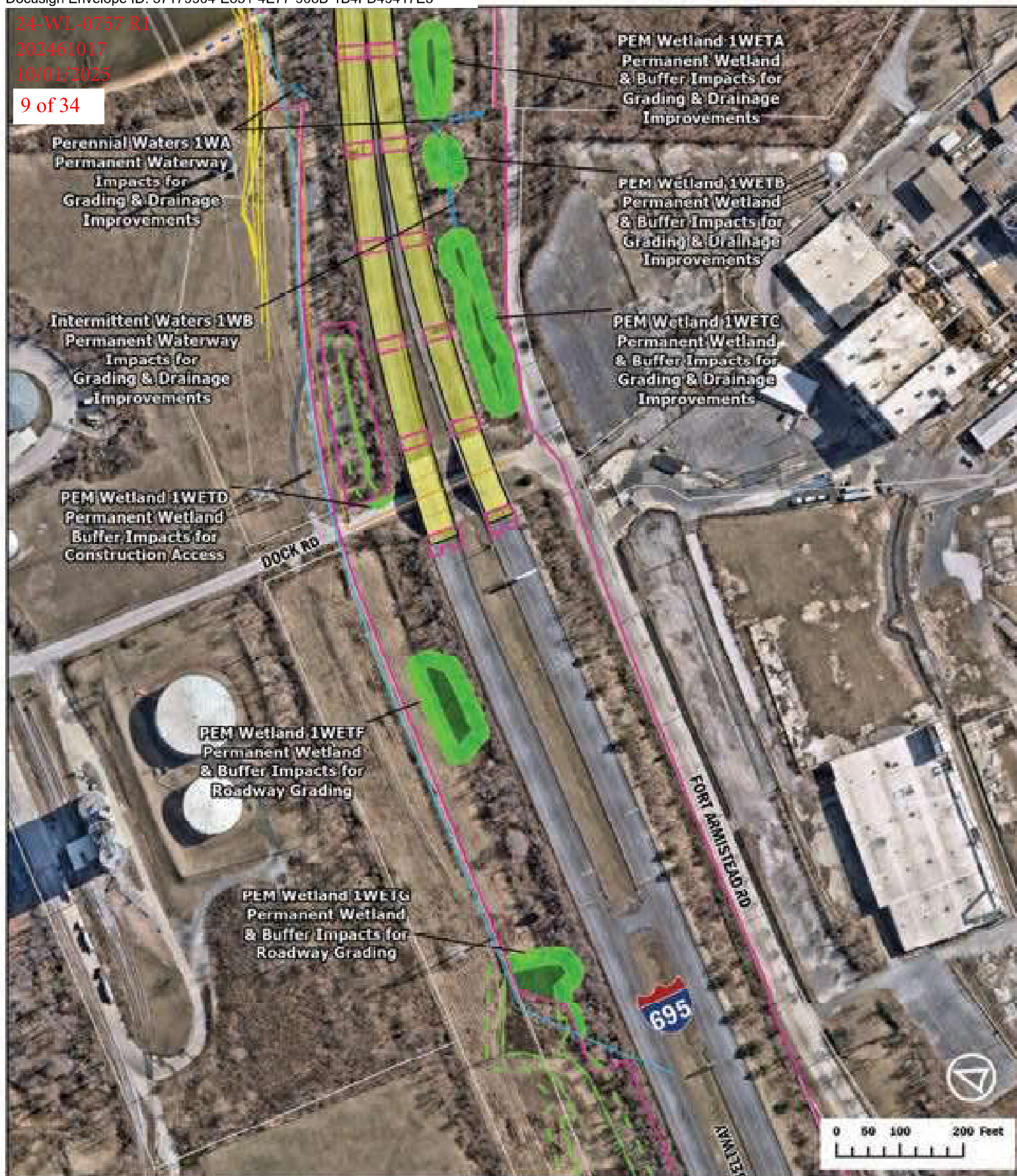


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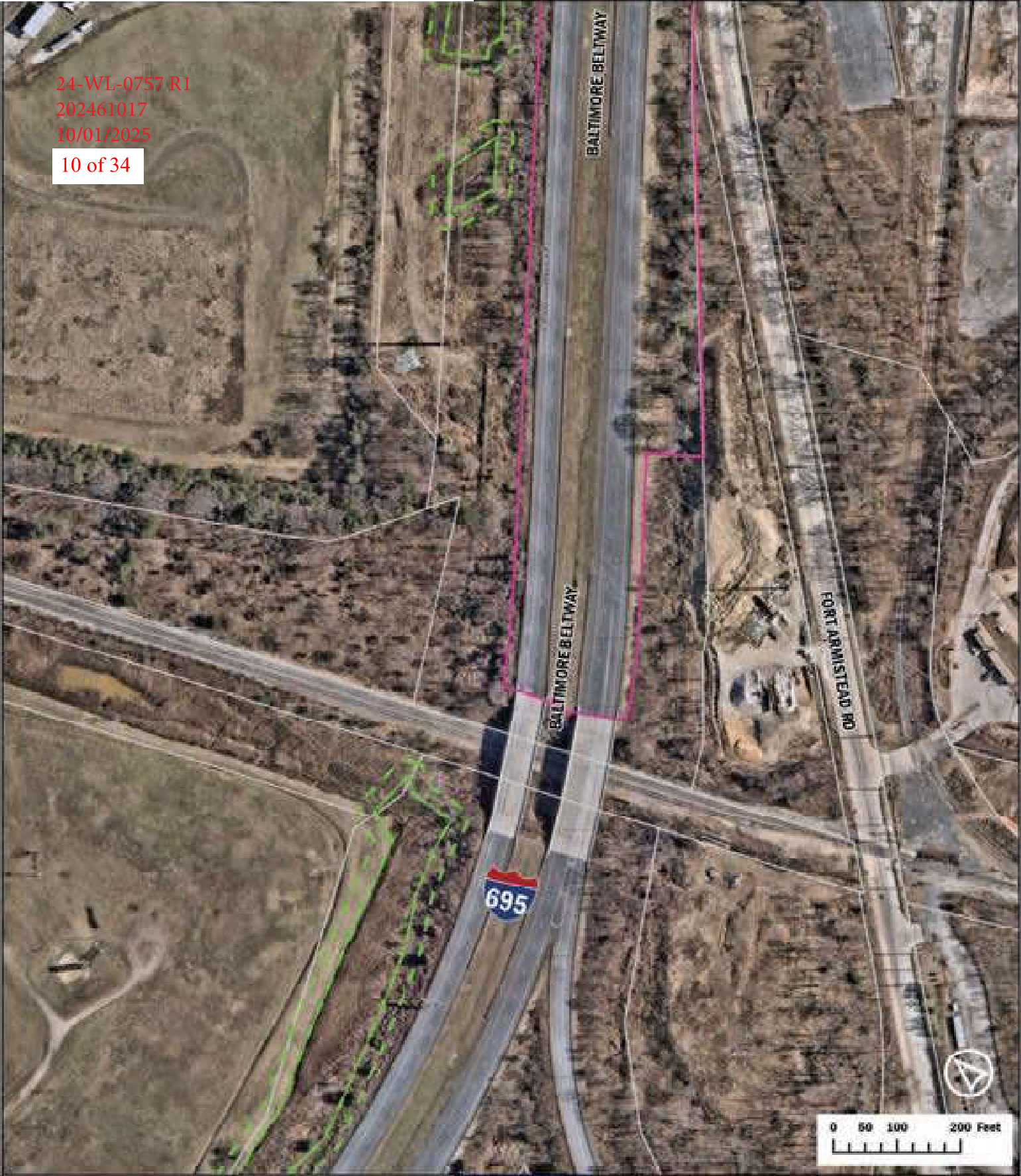
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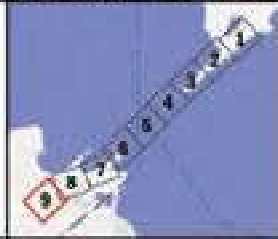


Francis Scott Key Bridge Rebuild Project Impact Plates

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Pile Locations	Pier & Pier Protection	On-Land Limits of Disturbance	Temporary Trench Area	Temporary Impact Area	Proposed Bridge Area	Navigation Channel Boundaries	Easement Line	Gas Line	Water Line
MHW Line	Streams	Wetlands	TSM Wetland Buffer	Permanent Wetland Impacts	Permanent Emergent/Scrubland Wetland Impacts	Permanent TSM Wetland Buffer Impacts			





MDTA
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MDOT
Maryland Department
of Transportation

**Francis Scott Key
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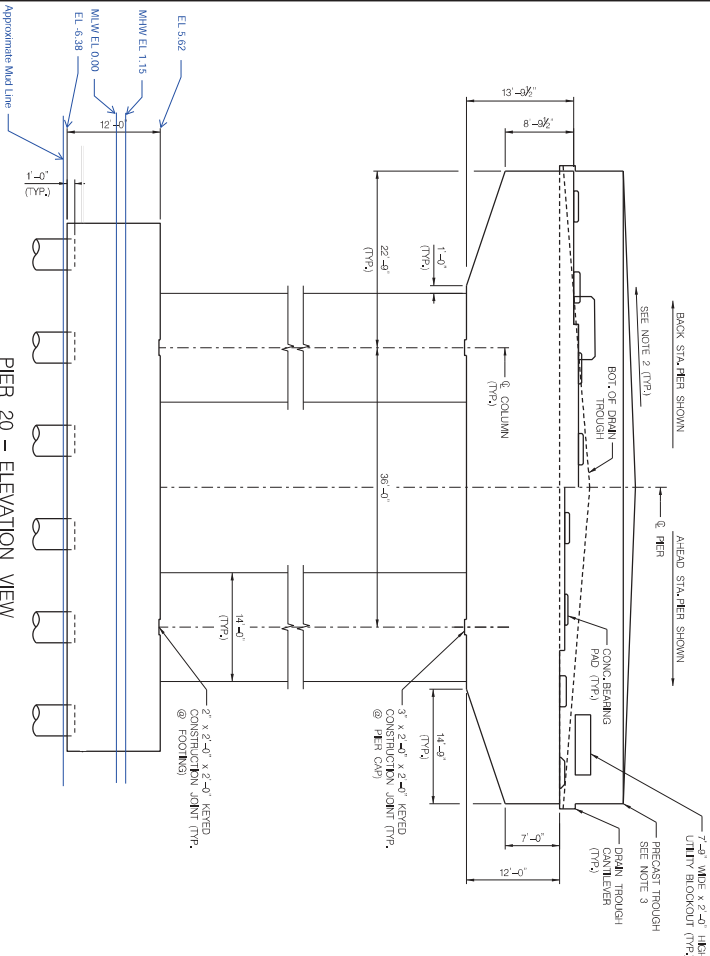
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Pier 20 - Typical Section



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PIER 20 - ELEVATION VIEW
SCALE: N = 1'-0"



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PE STAMP

Maryland Transportation Authority
Engineering Division

BY: Kevin,Maytum

24-WL-0757 R1
202461017
10/01/2025
11 of 34

REVISIONS		NO.	DESCRIPTION	BY	DATE
1		A	PROOF OF CONCEPT SUBMISSION	NAC	10/01/2025
2		B	SOB DESIGN & RECTIFY SUBMISSION	NAC	10/01/2025
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PIER 20 - TYPICAL SECTION
SCALE: N = 1'-0"

FRANCIS SCOTT KEY BRIDGE REPLACEMENT I-495/MD 695 OVER THE PATAPSCO RIVER-BALTIMORE HARBOR
BALTIMORE CITY, BALTIMORE COUNTY & ANNE ARUNDEL COUNTY
PER PLAN AND ELEVATION - PIER 20
DESIGNED BY: JISC
DRAWN BY: SITE
DATE: 10/01/2025
SCALE: 1"=1'-0"
SHEET NO. 12 OF 32

DRAFT PRE-DECISIONAL/CONFIDENTIAL

Pier 22 - Typical Section

FOR INFORMATION ONLY

[illegible]

LONGITUDINAL ELEVATION

SCALE: 1" = 1'-0"

MAIN SPAN



Maryland Transportation Authority



Engineering Division

ADDENDUMS & REVISIONS				CONTRACT NO.	
NO.	DESCRIPTION	BY	DATE	ISSUED FOR ESTIMATE	REVISION NO.
A	ISSUED FOR ESTIMATE SUBMITTAL	EAH	07/01/2025		
B	RECEIVED FOR ESTIMATE - REVISION 01	EAH	07/21/2025		
C	PROPOSAL FOR CONCEPT SUBMITTAL	EAH	07/21/2025		
D	RECEIVED FOR ESTIMATE	GA	08/14/2025		
E	SUBMITTAL SUBMITTAL	SC			
DESIGNED BY: SCS				SHEET NO. 1	
CHECKED BY: SCS				SHEET NO. 2	
DATE: JANUARY 2025				SCALE: AS NOTED	
DRAWN BY: RCV				SCALE: AS NOTED	
DESIGNED BY: SCS				SHEET NO. 3	
CHECKED BY: SCS				SHEET NO. 4	
DATE: JANUARY 2025				SCALE: AS NOTED	
DRAWN BY: RCV				SCALE: AS NOTED	
DESIGNED BY: SCS				SHEET NO. 5	
CHECKED BY: SCS				SHEET NO. 6	
DATE: JANUARY 2025				SCALE: AS NOTED	
DRAWN BY: RCV				SCALE: AS NOTED	
DESIGNED BY: SCS				SHEET NO. 7	
CHECKED BY: SCS				SHEET NO. 8	
DATE: JANUARY 2025				SCALE: AS NOTED	
DRAWN BY: RCV				SCALE: AS NOTED	
DESIGNED BY: SCS				SHEET NO. 9	
CHECKED BY: SCS				SHEET NO. 10	
DATE: JANUARY 2025				SCALE: AS NOTED	
DRAWN BY: RCV				SCALE: AS NOTED	
DESIGNED BY: SCS				SHEET NO. 11	
CHECKED BY: SCS				SHEET NO. 12	
DATE: JANUARY 2025				SCALE: AS NOTED	
DRAWN BY: RCV				SCALE: AS NOTED	
DESIGNED BY: SCS				SHEET NO. 13	
CHECKED BY: SCS				SHEET NO. 14	
DATE: JANUARY 2025				SCALE: AS NOTED	
DRAWN BY: RCV				SCALE: AS NOTED	
DESIGNED BY: SCS				SHEET NO. 15	
CHECKED BY: SCS				SHEET NO. 16	
DATE: JANUARY 2025				SCALE: AS NOTED	
DRAWN BY: RCV				SCALE: AS NOTED	
DESIGNED BY: SCS				SHEET NO. 17	
CHECKED BY: SCS				SHEET NO. 18	
DATE: JANUARY 2025				SCALE: AS NOTED	
DRAWN BY: RCV				SCALE: AS NOTED	
DESIGNED BY: SCS				SHEET NO. 19	
CHECKED BY: SCS				SHEET NO. 20	
DATE: JANUARY 2025				SCALE: AS NOTED	
DRAWN BY: RCV				SCALE: AS NOTED	
DESIGNED BY: SCS				SHEET NO. 21	
CHECKED BY: SCS				SHEET NO. 22	
DATE: JANUARY 2025				SCALE: AS NOTED	
DRAWN BY: RCV				SCALE: AS NOTED	
DESIGNED BY: SCS				SHEET NO. 23	
CHECKED BY: SCS				SHEET NO. 24	
DATE: JANUARY 2025				SCALE: AS NOTED	
DRAWN BY: RCV				SCALE: AS NOTED	
DESIGNED BY: SCS				SHEET NO. 25	
CHECKED BY: SCS				SHEET NO. 26	
DATE: JANUARY 2025				SCALE: AS NOTED	
DRAWN BY: RCV				SCALE: AS NOTED	
DESIGNED BY: SCS				SHEET NO. 27	
CHECKED BY: SCS				SHEET NO. 28	
DATE: JANUARY 2025				SCALE: AS NOTED	
DRAWN BY: RCV				SCALE: AS NOTED	
DESIGNED BY: SCS				SHEET NO. 29	
CHECKED BY: SCS				SHEET NO. 30	
DATE: JANUARY 2025				SCALE: AS NOTED	
DRAWN BY: RCV				SCALE: AS NOTED	
DESIGNED BY: SCS				SHEET NO. 31	
CHECKED BY: SCS				SHEET NO. 32	
DATE: JANUARY 2025				SCALE: AS NOTED	
DRAWN BY: RCV				SCALE: AS NOTED	
DESIGNED BY: SCS				SHEET NO. 33	
CHECKED BY: SCS				SHEET NO. 34	
DATE: JANUARY 2025				SCALE: AS NOTED	
DRAWN BY: RCV				SCALE: AS NOTED	
DESIGNED BY: SCS				SHEET NO. 35	
CHECKED BY: SCS				SHEET NO. 36	
DATE: JANUARY 2025				SCALE: AS NOTED	
DRAWN BY: RCV				SCALE: AS NOTED	
DESIGNED BY: SCS				SHEET NO. 37	
CHECKED BY: SCS				SHEET NO. 38	
DATE: JANUARY 2025				SCALE: AS NOTED	
DRAWN BY: RCV				SCALE: AS NOTED	
DESIGNED BY: SCS				SHEET NO. 39	
CHECKED BY: SCS				SHEET NO. 40	
DATE: JANUARY 2025				SCALE: AS NOTED	
DRAWN BY: RCV				SCALE: AS NOTED	
DESIGNED BY: SCS				SHEET NO. 41	
CHECKED BY: SCS				SHEET NO. 42	
DATE: JANUARY 2025				SCALE: AS NOTED	
DRAWN BY: RCV				SCALE: AS NOTED	
DESIGNED BY: SCS				SHEET NO. 43	
CHECKED BY: SCS				SHEET NO. 44	
DATE: JANUARY 2025				SCALE: AS NOTED	
DRAWN BY: RCV				SCALE: AS NOTED	
DESIGNED BY: SCS				SHEET NO. 45	
CHECKED BY: SCS				SHEET NO. 46	
DATE: JANUARY 2025				SCALE: AS NOTED	
DRAWN BY: RCV				SCALE: AS NOTED	
DESIGNED BY: SCS				SHEET NO. 47	
CHECKED BY: SCS				SHEET NO. 48	
DATE: JANUARY 2025				SCALE: AS NOTED	
DRAWN BY: RCV				SCALE: AS NOTED	
DESIGNED BY: SCS				SHEET NO. 49	
CHECKED BY: SCS				SHEET NO. 50	
DATE: JANUARY 2025				SCALE: AS NOTED	
DRAWN BY: RCV				SCALE: AS NOTED	
DESIGNED BY: SCS				SHEET NO. 51	
CHECKED BY: SCS				SHEET NO. 52	
DATE: JANUARY 2025				SCALE: AS NOTED	
DRAWN BY: RCV				SCALE: AS NOTED	
DESIGNED BY: SCS				SHEET NO. 53	
CHECKED BY: SCS				SHEET NO. 54	
DATE: JANUARY 2025				SCALE: AS NOTED	
DRAWN BY: RCV				SCALE: AS NOTED	
DESIGNED BY: SCS				SHEET NO. 55	
CHECKED BY: SCS				SHEET NO. 56	
DATE: JANUARY 2025				SCALE: AS NOTED	
DRAWN BY: RCV				SCALE: AS NOTED	
DESIGNED BY: SCS				SHEET NO. 57	
CHECKED BY: SCS				SHEET NO. 58	
DATE: JAN					

DRAFT PRE-DECISIONAL/CONFIDENTIAL

NOTES:

1. FOR GENERAL NOTES, SEE DRAWING NO. STR-008-CN-004.
2. PILE CAPS AT PIERS 22 AND 27 SHALL BE DESIGNATED AS MASS CONCRETE.



SECTION B

SCALE: 1" = 20'



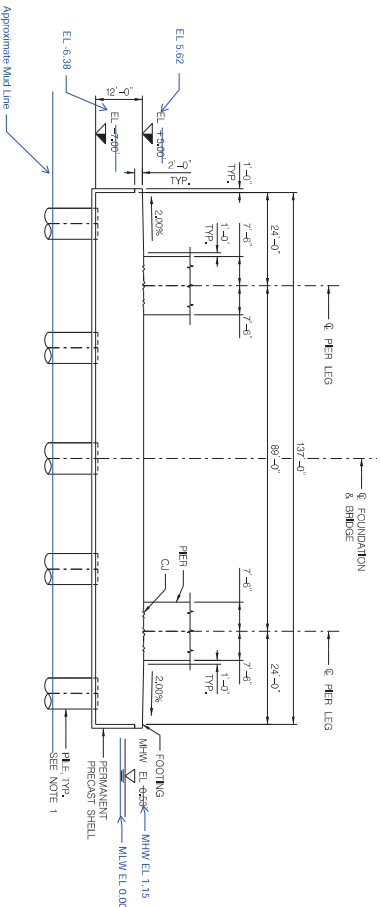
DRAFT PRE-DECISIONAL/CONFIDENTIAL



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202461017
10/01/2025
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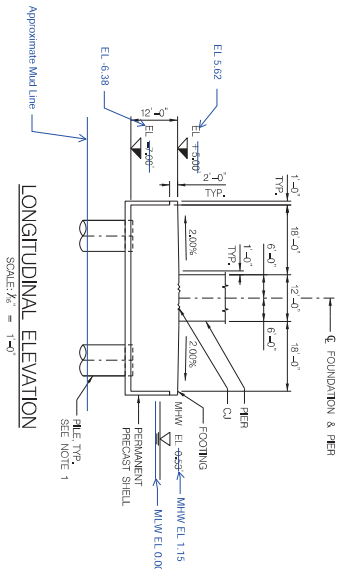
Pier 23 - Typical Section

FOR INFORMATION ONLY



TRANSVERSE ELEVATION

SCALE: 1/4" = 1'-0"



LONGITUDINAL ELEVATION

SCALE: 1/4" = 1'-0"

MAIN SPAN



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Maryland Transportation Authority
Engineering Division

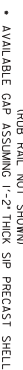
REVISIONS		APPROVED & REVISIONS	
NO.	DESCRIPTION	BY	DATE
A	FOR ESTIMATE SUBMISSION	EAA	10/01/2025
B	FOR ESTIMATE SUBMISSION - REVISION 1	EAA	10/01/2025
C	FOR CONSTRUCTION	SG	10/01/2025
D	FOR CONSTRUCTION	SG	10/01/2025
E	FOR CONSTRUCTION	SG	10/01/2025

PROJECT NO.	696 OVER THE PATAPSCO RIVER-BALTIMORE HARBOR	CONTRACT NO.	18-003-0000
LOCATION	BALTIMORE CITY, BALTIMORE COUNTY & ANNE ARUNDEL COUNTY	PROJECT NO.	18-003-0000
DESCRIPTION	MAIN SPAN BRIDGE - SUBSTRUCTURE - PIER 23 & P24 - FOUNDATION - DIMENSIONS	PROJECT NO.	18-003-0000
DESIGNED BY	SG	CHECKED BY	SG
DRAWN BY	SG	SCALE	AS NOTED
DATE	10/01/2025	SHEET NO.	21 OF 117

DRAFT PRE-DECISIONAL/CONFIDENTIAL

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2. PILE CAPS AT PIERS 23 AND 26 SHALL BE DESIGNATED AS MASS CONCRETE.



SCALE: 1" = 20'



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FOR INFORMATION ONLY



← FOUNDATION
PYLON & BRIDGE



FOUNDATION PYLON & BRIDGE



SCALE: 1/16" = 1'-0"

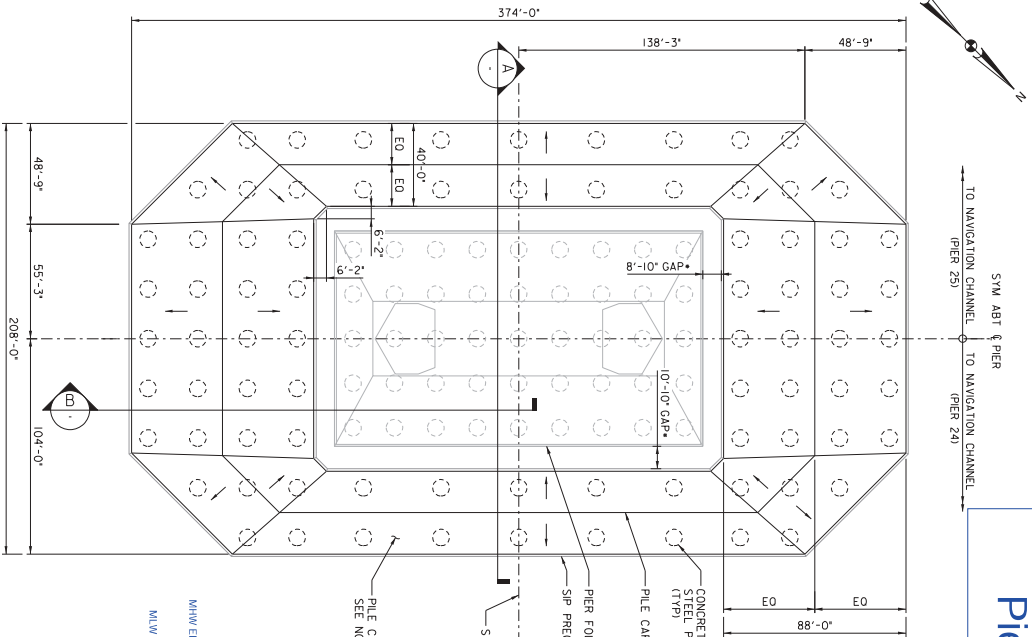


Maryland Transportation Authority

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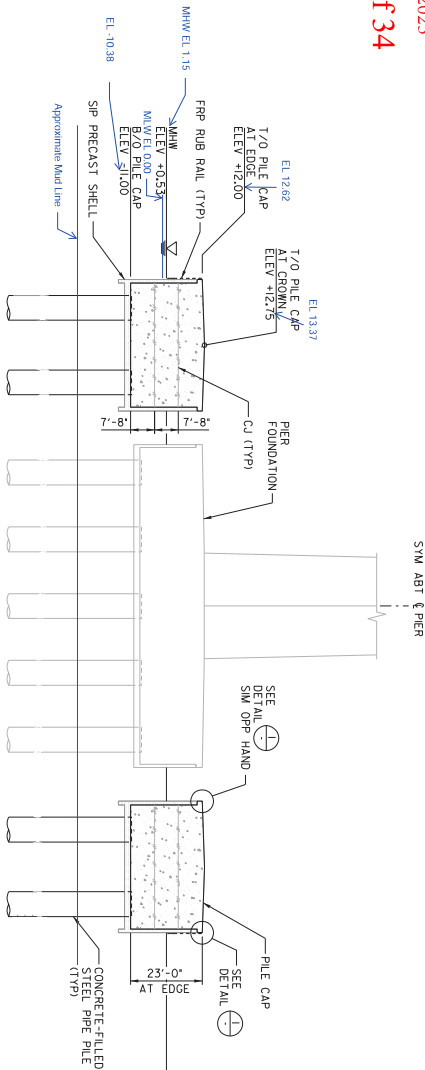
Pier 24 Pier Protection - Typical Section

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202461017
10/01/2025
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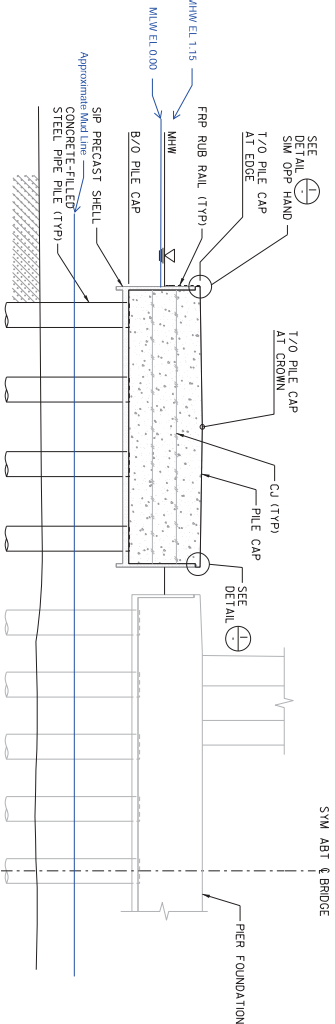
PLAN - PIERS 24 & 25

SCALE: 1" = 30'
(PIER 24 SHOWN, PIER 25 SIM)
(RUB RAIL NOT SHOWN)
*AVAILABLE GAP ASSUMING 1'-2" THICK SIP PRECAST SHELL



SECTION A

SCALE: 1" = 20'



SECTION B

SCALE: 1" = 20'

MAIN SPAN & APPROACH PIER PROTECTION

BY: JAET



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Maryland Transportation Authority
Engineering Division

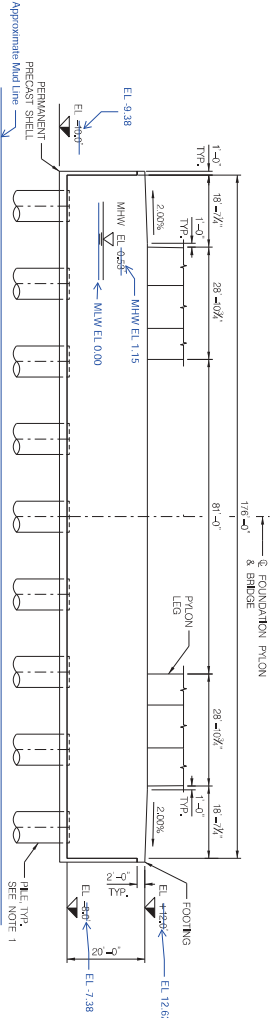
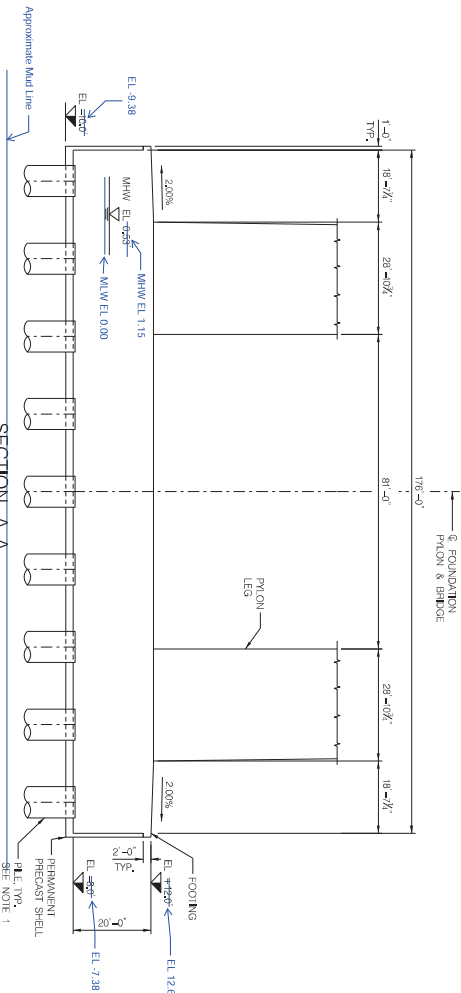
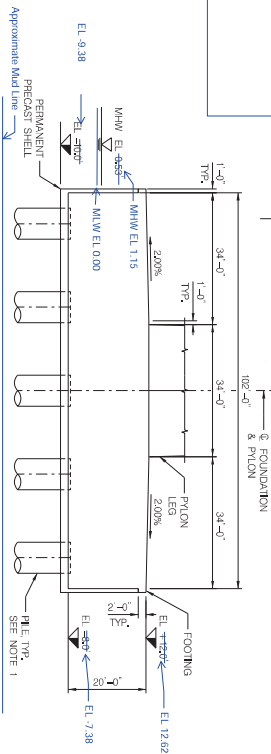
ADDENDUM A - REVISIONS			
NO.	DESCRIPTION	BY	DATE
A	DRP ISSUED FOR ESTIMATING	NTWV	1/10/2025
B	DRP ISSUED FOR ESTIMATING - REVISION 01	NTWV	1/17/2025
C	PROOF OF CONCEPT	NTWV	2/27/2025
D	RECEIVED SUBMITTAL	NTWV	4/18/2025
E	RECEIVED SUBMITTAL - REVISION 01	NTWV	5/5/2025
F	SOLO FOR REVIEW SUBMITTAL	NTWV	8/7/2025

DESIGNED BY: FRANCIS SCOTT KEY BRIDGE REPLACEMENT 1-695/AD		CONTRACT NO. 163-603-0000	
695 OVER THE PATAPSCO RIVER-BALTIMORE HARBOR		PILING NO. STR-008-S-110	
BALTIMORE CITY, BALTIMORE COUNTY & ANNE ARUNDEL COUNTY		SHEET NO. OF 40	
FEDERAL LAYOUT & DETAILS - MAIN PIERS 24 & 25			
DRAWN BY: ANTONIAK		CHECKED BY: W.S. VOTED	
DATE: 11/05/2025			

DRAFT PRE-DECISIONAL/CONFIDENTIAL

Pier 25 - Typical Section

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MAIN SPAN

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Maryland Transportation Authority

Engineering Division

REVISIONS		APPROVED & REVISIONS	
NO.	DESCRIPTION	BY	DATE
A	FOR ESTIMATE SUBMISSION	EAA	10/01/2025
B	FOR ESTIMATE SUBMISSION	EAA	10/01/2025
C	FOR ESTIMATE SUBMISSION	SG	10/01/2025
D	FOR ESTIMATE SUBMISSION	SG	10/01/2025
E	FOR ESTIMATE SUBMISSION	SG	10/01/2025

FRANCIS SCOTT KEY BRIDGE REPLACEMENT I-495/MD 695 OVER THE PATAPSCO RIVER-BALTIMORE HARBOR

BALTIMORE CITY, BALTIMORE COUNTY & ANNE ARUNDEL COUNTY

MAIN SPAN BRIDGE - SUBSTRUCTURE - Pylon P24 & P25 - FOUNDATION - DIMENSIONS

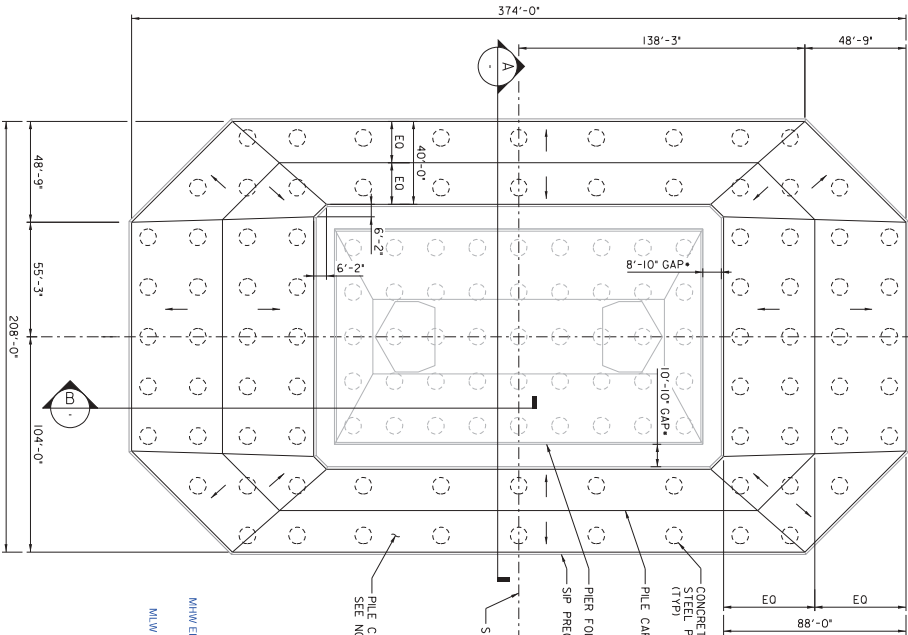
DESIGNED BY: [Signature] CHECKED BY: [Signature] DATE: 10/01/2025 SCALE: AS NOTED SHEET NO. 28 OF 117

DRAFT PRE-DECISIONAL/CONFIDENTIAL

Pier 25 Pier Protection - Typical Section

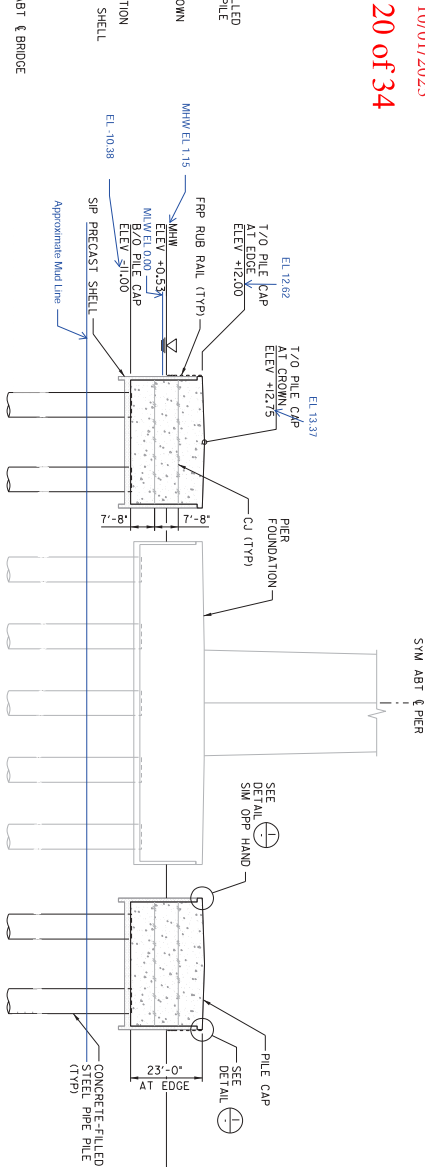
SYM ABT & PIER
TO NAVIGATION CHANNEL (PIER 25)
TO NAVIGATION CHANNEL (PIER 24)

24-WL-0757 R1
202461017
10/01/2025
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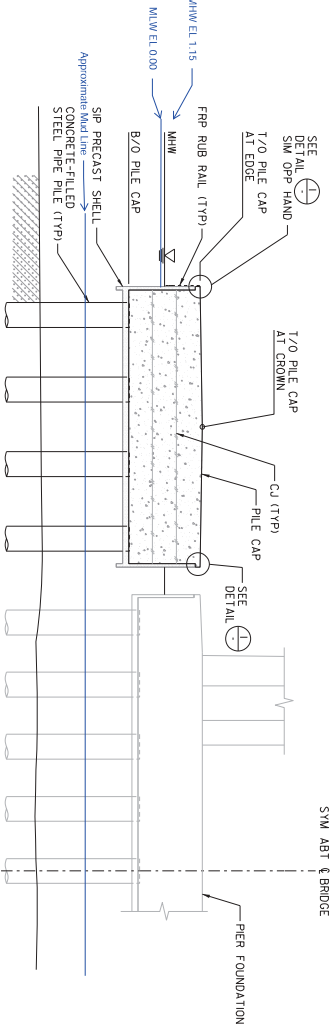
PLAN - PIERS 24 & 25

SCALE: 1" = 30'
(PIER 24 SHOWN, PIER 25 SIM)
(RUB RAIL NOT SHOWN)
*AVAILABLE GAP ASSUMING 1'-2" THICK SIP PRECAST SHELL



SECTION A

SCALE: 1" = 20'



SECTION B

SCALE: 1" = 20'

MAIN SPAN & APPROACH PIER PROTECTION



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Maryland Transportation Authority
Engineering Division

BY: JAET

PROJECT: 24-WL-0757 R1
PIER 25 PIER PROTECTION
DATE: 10/01/2025
SCALE: 1" = 30'

REVISIONS & REVISIONS			
NO.	DESCRIPTION	BY	DATE
A	ORC ISSUED FOR ESTIMATING	NTWV	1/10/2025
B	ORC ISSUED FOR ESTIMATING - REVISION 10	NTWV	1/17/2025
C	PROOF OF CONCEPT	NTWV	2/27/2025
D	REVISED SUBMITTAL	NTWV	4/18/2025
E	REVISED SUBMITTAL - REVISED 01	NTWV	5/26/2025
F	REVISED SUBMITTAL - REVISED 02	NTWV	8/12/2025

DESIGNED BY: J. J. J. J.			
CHECKED BY: J. J. J. J.			
DATE: 10/01/2025			
SCALE: AS NOTED			

PROJECT: 24-WL-0757 R1			
PIER 25 PIER PROTECTION			
DATE: 10/01/2025			
SCALE: 1" = 30'			

PROJECT: 24-WL-0757 R1			
PIER 25 PIER PROTECTION			
DATE: 10/01/2025			
SCALE: 1" = 30'			

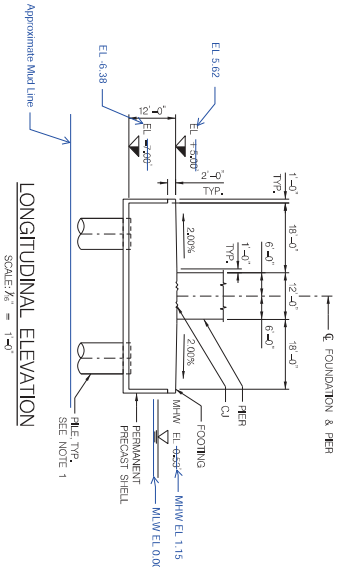
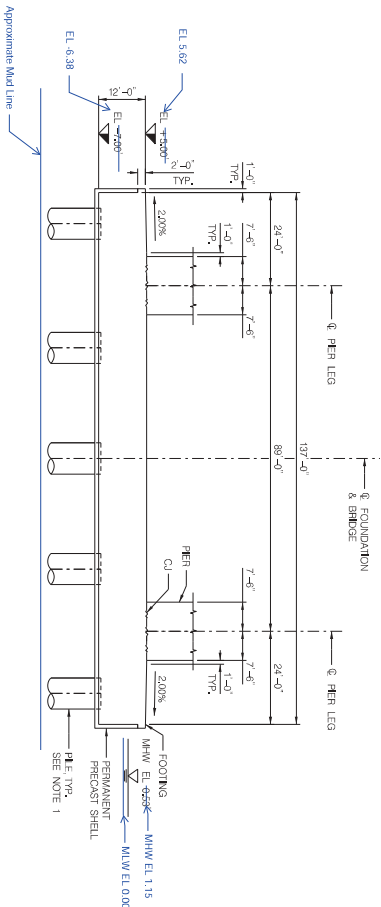
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10/01/2025
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Pier 26 - Typical Section

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MAIN SPAN



Maryland Transportation Authority
Engineering Division

REVISIONS		APPROVED & REVISIONS		PROJECT INFORMATION	
NO.	DESCRIPTION	BY	DATE	DESCRIPTION	DATE
A	ISSUED FOR ESTIMATE SUBMISSION	EJA	10/01/2025	696 OVER THE PATAPSCO RIVER-BALTIMORE HARBOR	10/01/2025
B	ORC ISSUED FOR ESTIMATING & REVISION	EJA	10/01/2025	BALTIMORE CITY, BALTIMORE COUNTY & ANNE ARUNDEL COUNTY	10/01/2025
C	PROOF OF CONCEPT SUBMISSION	SG	10/01/2025	MAIN SPAN BRIDGE - SUBSTRUCTURE - PIER P23 & P26 - FOUNDATION - DIMENSIONS	10/01/2025
D	BCS ISSUED FOR ESTIMATING	QMA	04/18/2025		
E	SOCS DESIGN SUBMISSION	SG			
DESIGNED BY: SG		CHECKED BY: SG		CONTRACT NO. 163-0003-0000	
DATE: 10/01/2025		SCALE: AS NOTED		SHEET NO. 21 OF 117	

DRAFT PRE-DECISIONAL/CONFIDENTIAL

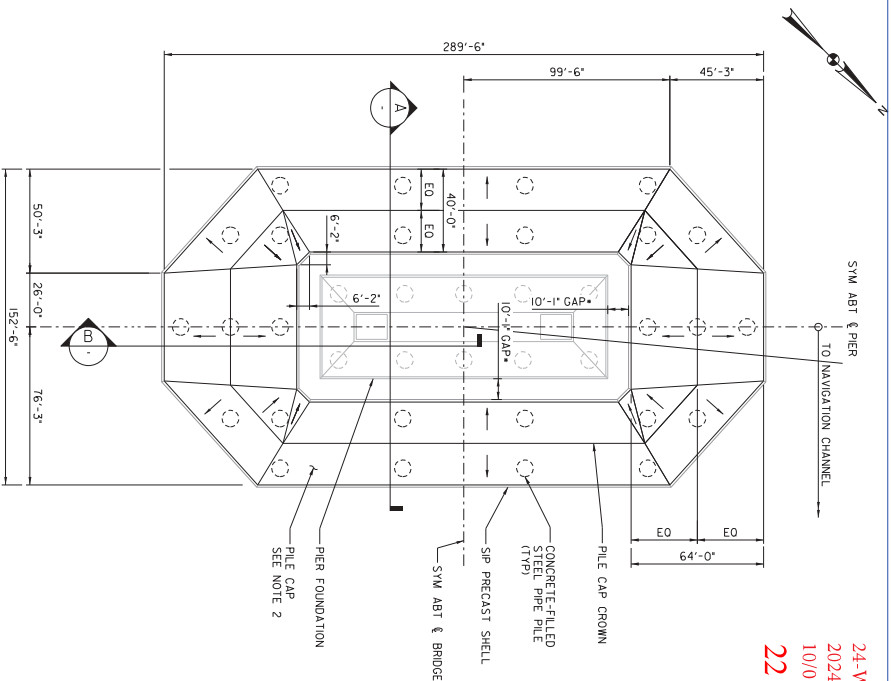
Pier 26 Pier Protection - Typical Section

24-WL-0757 R1

202461017

10/01/2025

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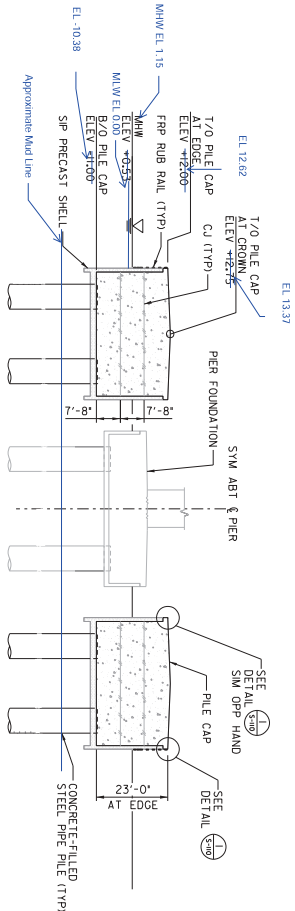


PLAN - PIER 23

SCALE: 1" = 30'

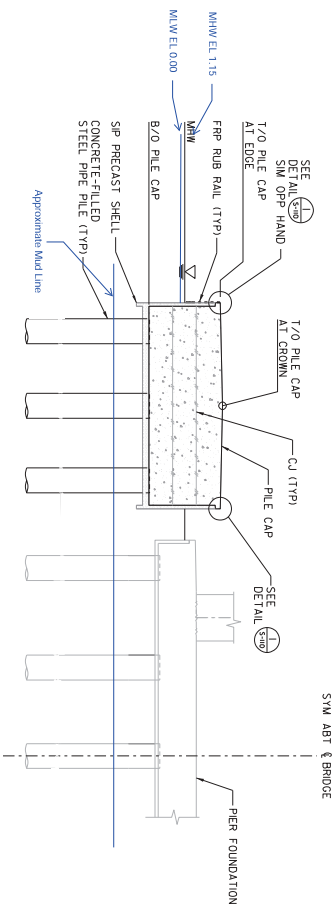
(RUB RAIL NOT SHOWN)

• AVAILABLE GAP ASSUMING 1'-2" THICK SIP PRECAST SHELL



SECTION A

SCALE: 1" = 20'



SECTION B

SCALE: 1" = 20'

MAIN SPAN & APPROACH PIER PROTECTION

BY: JAET



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Maryland Transportation Authority
Engineering Division

REVISIONS & REVISIONS			
NO.	DESCRIPTION	BY	DATE
A	DRG. ISSUED FOR ESTIMATING	MWV	1/12/2025
B	DRG. ISSUED FOR ESTIMATING - REVISION 1	MWV	1/17/2025
C	PROG. OF CONCEPT	MWV	2/27/2025
D	RECEIVED SUBMITTAL	MWV	4/18/2025
E	RECEIVED SUBMITTAL - REVISION 1	MWV	5/23/2025
F	SPIN OFF FROM SUBMITTAL	MWV	8/12/2025

DESIGNED BY	DATE	DESIGNED BY	DATE
INTV	1/12/2025	INTV	1/12/2025

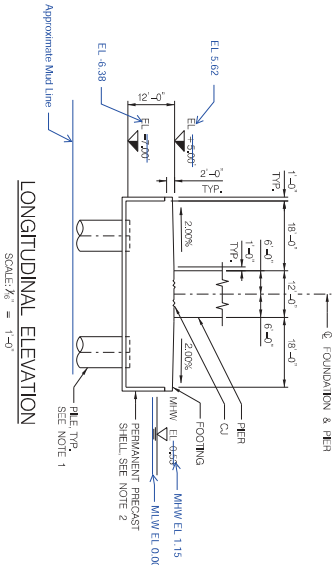
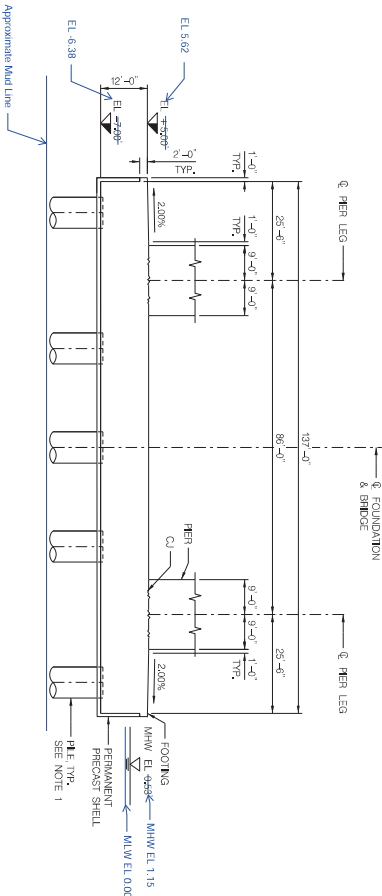
PROJECT NO.	696 OVER THE PATAPSCO RIVER-BALTIMORE HARBOR	CONTRACT NO.	163-003-0000
PROJECT NO.	BALTIMORE CITY, BALTIMORE COUNTY & ANNE ARUNDEL COUNTY	PROJECT NO.	STR-008-S-111
PROJECT NO.	FENDER LAYOUT & DETAILS - TIE DOWN PIERS 23 & 26 - 1	PROJECT NO.	STR-008-S-111
PROJECT NO.	DATE	PROJECT NO.	DATE
PROJECT NO.	DATE	PROJECT NO.	DATE

DRAFT PRE-DECISIONAL/CONFIDENTIAL

FOR INFORMATION ONLY

Pier 27 - Typical Section

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202461017
10/01/2025
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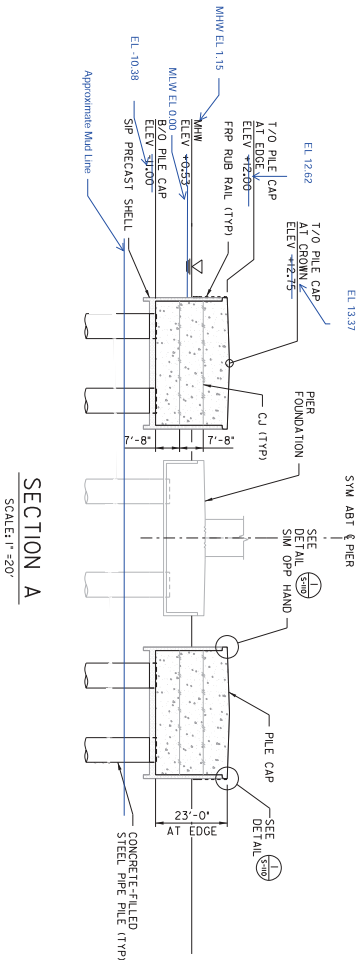
MAIN SPAN

		QR CODE	PE STAMP	PE STAMP	 Maryland Transportation Authority Engineering Division		
APPROXIMATE & REVISIONS							
NO.	DESCRIPTION	BY	DATE				
A	ISSUED FOR ESTIMATE SUBMISSION	EJA	10/01/2025				
B	ORC ISSUED FOR ESTIMATING - REVISION 1	EJA	10/01/2025				
C	PROOF OF CONCEPT SUBMISSION	SG	10/01/2025				
D	BEC ISSUED FOR ESTIMATING	QMA	04/18/2025				
E	SOCS DESIGN SUBMISSION	SG					
DESIGNED BY: SSG					DRAWN BY: SCW	CHECKED BY: SSS NOTED	
DATE: 10/01/2025					DATE: 10/01/2025	SCALE: AS NOTED	
CONTRACT NO. 163-000-0000							
PROJECT NO. STR-001-PD-121							
SHEET NO. 15 OF 117							

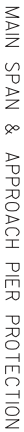
DRAFT PRE-DECISIONAL/CONFIDENTIAL

NOTES:

1. FOR GENERAL NOTES, SEE DRAWING NO. STR-008-CN-004.
2. PILE CAPS AT PIERS 22 AND 27 SHALL BE DESIGNATED AS MASS CONCRETE.



SCALE: 1" = 20'



DRAFT PRE-DECISIONAL/CONFIDENTIAL

FOR INFORMATION ONLY



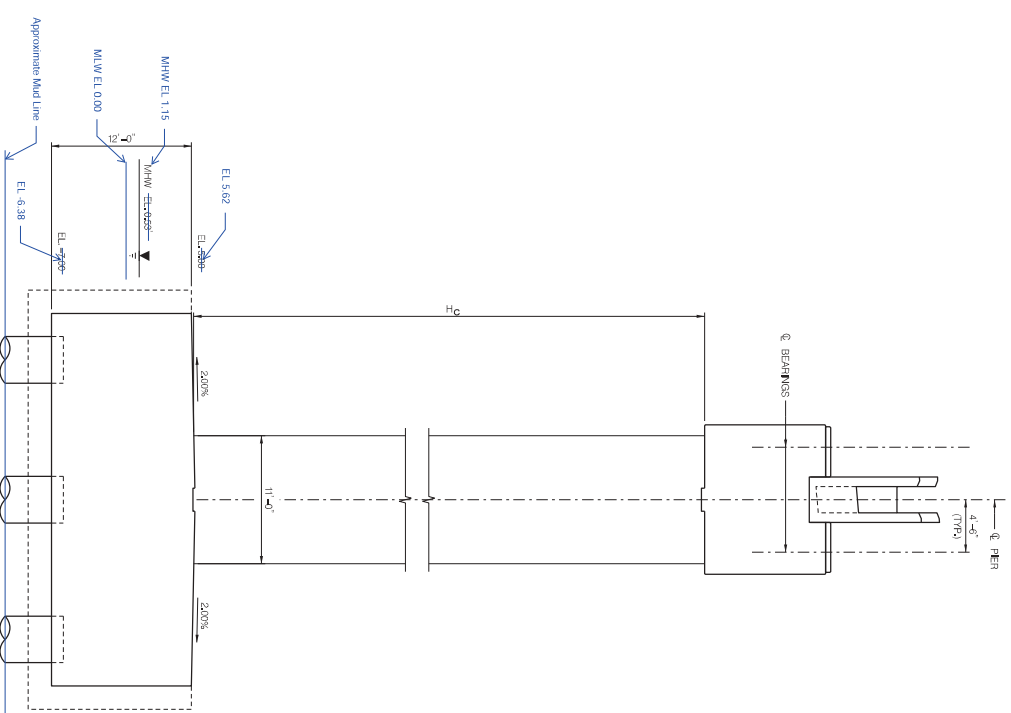
Maryland Transportation Authority

Engineering Division

ADDENDUM & REVISION:		PRANCIS SCOTT KEY BRIDGE REPLACEMENT I-695 MD 695 OVER THE PATAPSCO RIVER-BALTIMORE HARBOR		CONTRACT NO. IC2-003-0000	
NO.	DESCRIPTION	BY	DATE	DRAWING NO.	
A	PROOF OF CONCEPT SUBMITTAL	KSC	01/03/2025	SIR-002-PH-001	
B	50% DESIGN & BIDDING SUBMITTAL	KSC	04/18/2025	SHEET NO. OF 85	
				DATE: APRIL 2025	
				SCALE:	
				DESIGNED BY: AVAL	
				CHECKED BY: EJE	
				DRAWN BY: KSC	
				DESIGNED BY: KSC	
				CHECKED BY:	
				DATE:	
				SHEET NO. OF 85	
				SCALE:	
				DATE: APRIL 2025	
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				SHEET NO. OF 85	
				SCALE:	
				DATE: APRIL 2025	
				SCALE:	
				DESIGNED	

DRAFT PRE-DECISIONAL/CONFIDENTIAL

FOR INFORMATION ONLY



PIERS 29 AND 32 - TYPICAL SECTION

PIERS 29 AND 32 - ELEVATION VIEW



ADDENDUM						REVISIONS
No.	Description	By	Date			
A	PROOF OF CONVEYANCE	KAC	01/01/2025			
B	SUBMITTAL OF THE SUBMITTANT	KAC	01/18/2025			
FRANCIS SCOTT KEY BRIDGE REPLACEMENT I-69/MD 69S OVER THE PATASCO RIVER-BALTIMORE HARBOR BALTIMORE COUNTY, BALTIMORE COUNTY & ANNE ARUNDEL COUNTY PER PLAN AND ELEVATION - PERS. 2'S & 3'S						
DESIGNED BY _____		KBC		CHECKED BY _____		
DATE _____		APRIL 2025		SCALE _____		
DRAWN BY _____		EJE		CHECKED BY _____		
DATE _____		APRIL 2025		SCALE _____		
PROJECT NO.		51R-002-PH-002		CONTACT NO.		
BRANCH NO.				JG-003-0000		
SHEET NO.		OF 85		REV. 05		

BY: Kevin Maylum

UNITED STATES
OF AMERICA

POSTAGE WILL BE PAID BY ADDRESSEE

Kiewit

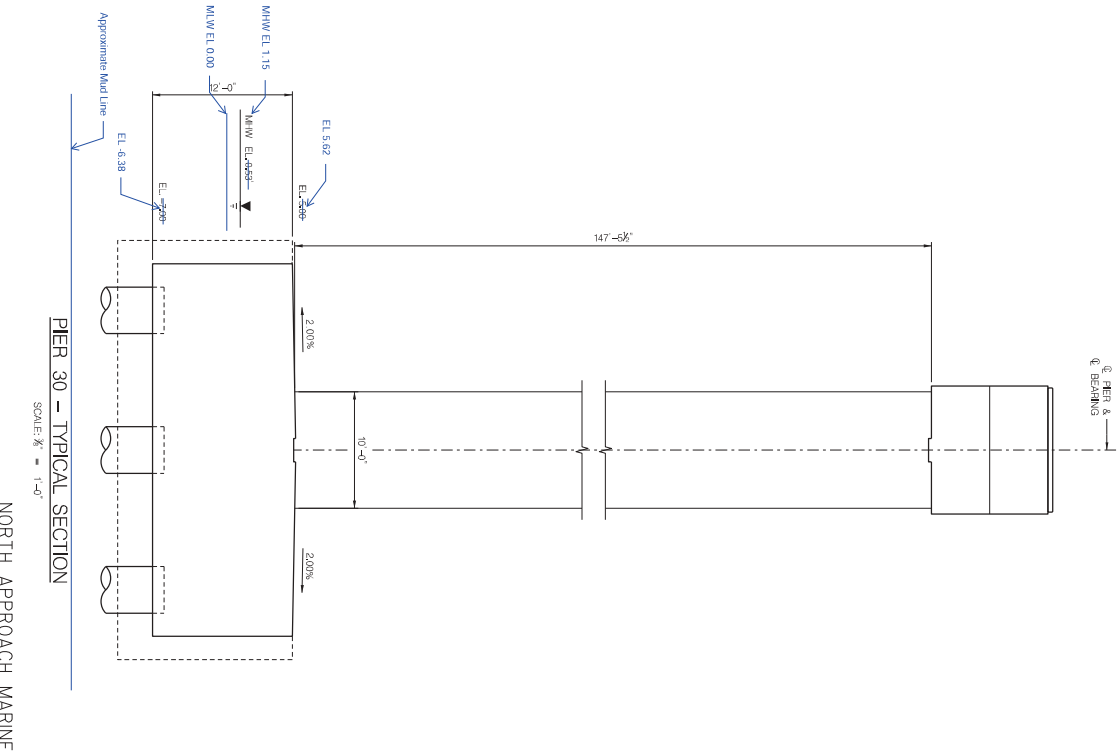
OR
CODE

PE STAMP

PE

DRAFT PRE-DECISIONAL/CONFIDENTIAL

Pier 30 - Typical Section



FOR INFORMATION ONLY

Maryland Transportation Authority

King Division

NO.	DESCRIPTION	BT	DATE
A	PROJECT OF CONCEPT SUBMITTAL	REC	01/01/2023
B	50% DESIGN & B.C. FOR SUBMITTAL	REC	04/18/2023

RECEIVED BY	REC'D	DRAWN BY	DATE	SCALE	CHECKED BY	DATE	SCALE
			03/01/2023				

SHEET NO.	OF
17	85

CONTRACT NO.

ICR-000-0000

BRIDGE NO.

STR-002-PH-003

695 OVER THE PATAPUSCO RIVER-BALTIMORE HARBOR

BALTIMORE CITY, BALTIMORE COUNTY & ANNE ARUNDEL COUNTY

PER PLAN AND ELEVATION - PER 30

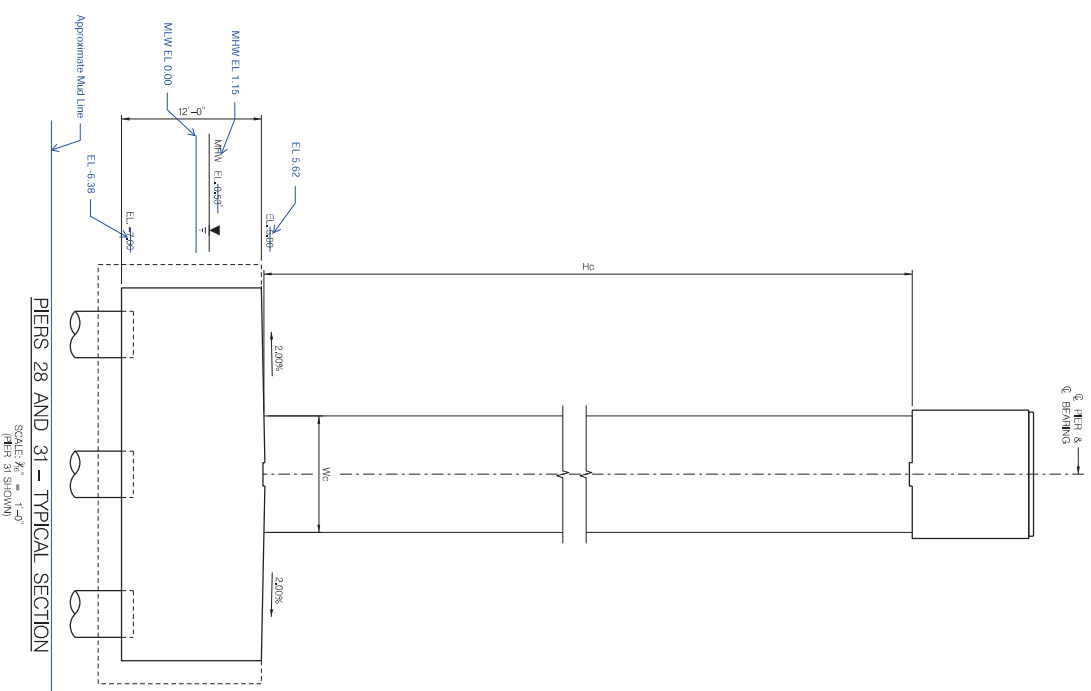
FRANCIS SCOTT KEY BRIDGE REPLACEMENT I-695/MD

MOORE & KINGSBORN

APPROVED FOR SUBMITTAL

DRAFT PRE-DECISIONAL/CONFIDENTIAL

FOR INFORMATION ONLY



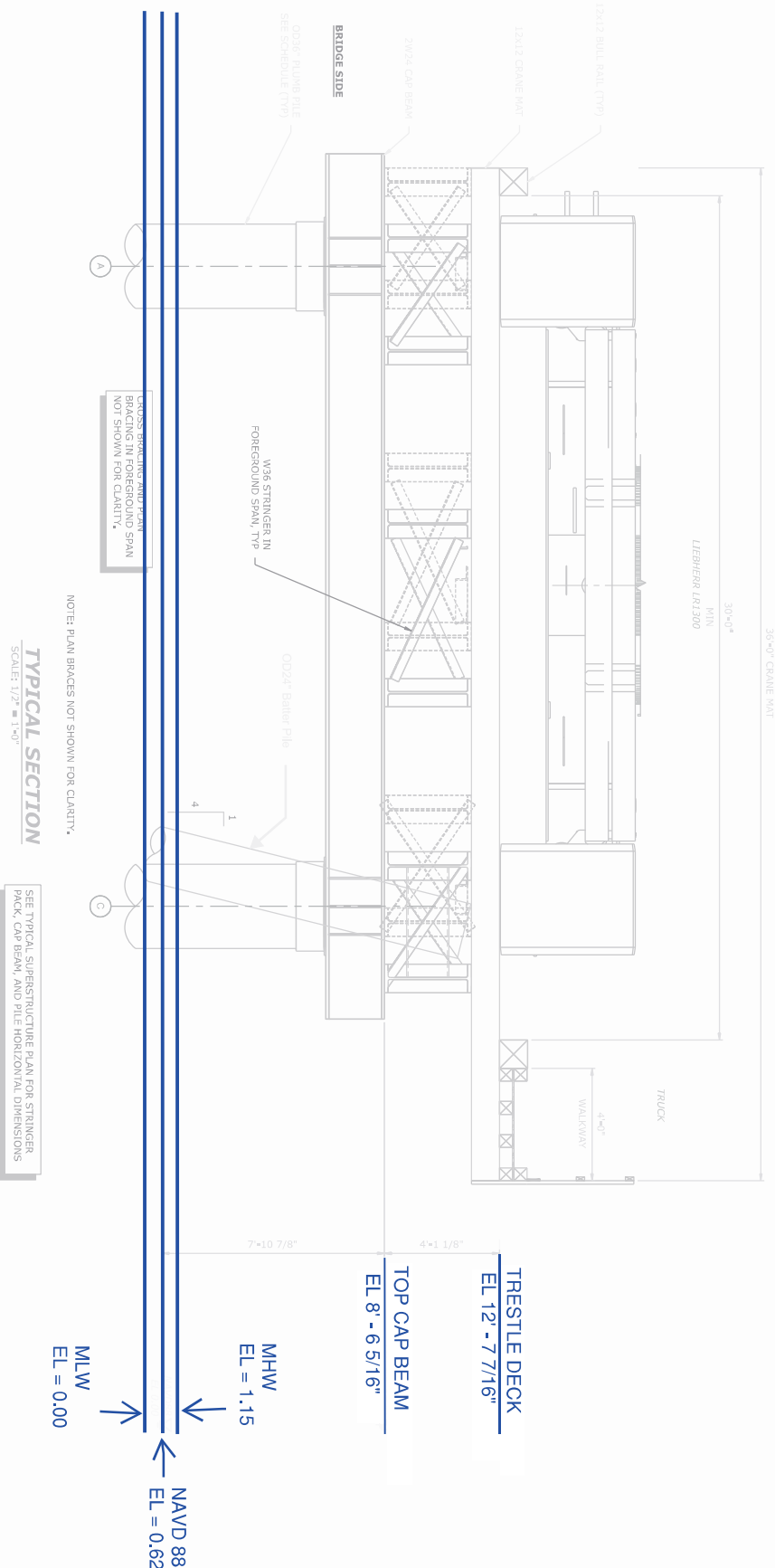
SCALE: $X_8 = 1'-0"$
(PIER 31 SHOWN)

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DRAFT PRE-DECISIONAL/CONFIDENTIAL

Temporary Trestle - 2-Pile Typical Section

24-WL-0757 R1
202461017
10/01/2025
29 of 34



PRELIMINARY - NOT FOR CONSTRUCTION

TOTAL SHEETS ISSUED: 5
DRAWING SCALES SHOWN ARE BASED ON A 22"x34" SHEET
ABBREVIATIONS PER US NATIONAL CAD STANDARD
C:\Users\Justin.Ternus\DC\ACCDocs\Kiewit\56387-FSK Bridge Replacement\Project Files\50 Temporary Works\522 Temporary Bridges Trestles\01.04-WO16-Trestle4GMP\1-CAD\REF\522.01.02 TRESTLE MODEL 1.PAC\DWG\DWG1.DWG.T.

6/5/2025 3:46:53 PM

MARK	DATE	DESCRIPTION	DRAWN	DESIG	CHKD	PROJECT: FRANCIS SCOTT KEY BRIDGE REPLACEMENT LOCATION: BALTIMORE, MD	TSCD RISK: HIGH
						PROJECT TASK: CRANE TRESTLE	JOB-TASK NO: 24-227-522.01.02
						SHEET TITLE: TYPICAL SUPERSTRUCTURE SECTION	SHEET ID: TW104

30 of 34

6/5/2025 3:46:32 PM
LAST IS SPEED 18 W. IVE. T.



PRELIMINARY - NOT FOR CONSTRUCTION

PROJECT: FRANCIS SCOTT KEY BRIDGE REPLACEMENT	TS&D RISK:
LOCATION: BALTIMORE, MD	HIGH
PROJECT TASK:	JOB/TASK NO:
CRANE TRESTLE	24-227-552.01.02
SHEET TITLE:	SHEET ID:
TYPICAL SUPERSTRUCTURE SECTION	TW103

Impact Summary Table						
Francis Scott Key Bridge Rebuild Project - Modification #2						
Resource Type	Previously Requested/Authorized Impacts*		Impact Changes Requested		Modified Total Impacts	
	Permanent	Temporary	Permanent	Temporary	Permanent	Temporary
Tidal Waterway	553,820 SF / 12.71 AC	10,605 SF / 0.25 AC	-529,437 SF / -12.15 AC	0 SF / 0.00 AC	24,383 SF / 0.56 AC	10,605 SF / 0.25 AC
Perennial Waterway	0 LF / 0 SF	85 LF / 246 SF	112 LF / 337 SF	-85 LF / -246 SF	112 LF / 337 SF	0 LF / 0 SF
Intermittent Waterway	0 LF / 0 SF	187 LF / 599 SF	187 LF / 599 SF	-187 LF / -599 SF	187 LF / 599 SF	0 LF / 0 SF
Nontidal Open Water	0 SF / 0.00 AC	0 SF / 0.00 AC	19,571 SF / 0.45 AC	0 SF / 0.00 AC	19,571 SF / 0.45 AC	0 SF / 0.00 AC
Emergent Nontidal Wetland	4,336 SF / 0.1 AC	6,628 SF / 0.16 AC	131,453 SF / 3.02 AC	-6,628 SF / -0.16 AC	135,789 SF / 3.12 AC	0 SF / 0 AC
25-ft Nontidal Wetland Buffer	14,415 SF / 0.34 AC	32,186 SF / 0.74 AC	87,266 SF / 2.00 AC	-32,186 SF / -0.74 AC	101,681 SF / 2.34 AC	0 SF / 0 AC

*Impacts to nontidal resources were requested in the original Application but have not yet been authorized

Francis Scott Key Bridge Rebuild Project - Impacts by Resource - July 2025						
Resource ID	Resource Classification	Permanent Impact (SF)	Temporary Impact (SF)	Permanent Impact (LF)	Temporary Impact (LF)	Plate Number
2WE1D	PEM	674	-	-	-	2
2WE1D Buffer	25ft Wetland Buffer	4,780	-	-	-	2
Patapasco River	Tidal Waters	24,383	10,605	-	-	3-6
1WE1A	PEM	1,006	-	-	-	8
1WE1A Buffer	25ft Wetland Buffer	7,380	-	-	-	8
1WA	Perennial Waters	337	-	112	-	8
1WB	Intermittent Waters	599	-	187	-	8
1WE1B	PEM	166	-	-	-	8
1WE1B Buffer	25ft Wetland Buffer	3,832	-	-	-	8
1WE1C	PEM	2,253	-	-	-	8
1WE1C Buffer	25ft Wetland Buffer	15,057	-	-	-	8
1WE1D Buffer	25ft Wetland Buffer	681	-	-	-	8
1WE1E	POW Waters	19,571	-	-	-	6-7
1WE1E	PEM	124,822	-	-	-	7
1WE1E Buffer	25ft Wetland Buffer	54,704	-	-	-	7
1WE1F	PEM	3,662	-	-	-	8
1WE1F Buffer	25ft Wetland Buffer	9,638	-	-	-	8
1WE1G	PEM	3,206	-	-	-	8
1WE1G Buffer	25ft Wetland Buffer	5,609	-	-	-	8

Francis Scott Key Bridge Rebuild Project - Impacts by Activity - July 2025						
Activity	Previously Requested/Authorized Impacts* - Permanent	Previously Requested/Authorized Impacts* - Temporary	Changes in Permanent Impact	Changes in Temporary Impact	Modified Total Permanent Impact	Modified Total Temporary Impact
Bridge replacement (including piles, pier foundations, and pier protection)	12.71 AC - Tidal Patapsco River	N/A	-12.15 AC	N/A	0.56 AC	N/A
Temporary trestle (1200 - 36-inch piles)	N/A	9.19 AC - Above Tidal Patapsco River 8,484 SF -Tidal Waters Impact	N/A	-3.21 AC - Above Tidal Patapsco River 0 SF - Tidal Waters Impact	N/A	5.98 AC - Above Tidal Patapsco River 8,484 SF -Tidal Waters Impact
Mooring/template Piles (300 - 36-inch piles)	N/A	2,121 SF - Tidal Waters Impact	N/A	0 SF - Tidal Waters Impact	N/A	2,121 SF - Tidal Waters Impact
Roadway grading, drainage improvements, reconfiguration of existing roadway approaches	4,336 SF - Nontidal Wetlands 14,415 SF - 25-ft Nontidal Wetland Buffer	6,628 SF - Nontidal Wetlands 32,186 SF - 25-ft Nontidal Wetland Buffer 272 LF (845 SF) - Nontidal tributaries	+131,453 SF - Nontidal Wetlands +87,266 SF - 25-ft Nontidal Wetland Buffer +299 LF (936 SF) - Nontidal tributaries +19,571 SF (0.45 AC) - Nontidal Open Water	-6,628 SF - Nontidal Wetlands -32,186 SF - 25-ft Nontidal Wetland Buffer -272 LF(845 SF) - Nontidal tributaries	135,789 SF - Nontidal Wetlands 101,681 SF - 25-ft Nontidal Wetland Buffer 299 LF (936 SF) - Nontidal tributaries 19,571 SF (0.45 AC) - Nontidal Open Water	0

*Impacts to nontidal resources were requested in the original Application but have not yet been authorized

Francis Scott Key Bridge Rebuild Project - Tidal Waters Impacts by Bridge Pier - July 2025											
Pier/ Fender #	Foundation Position	Fender Type	Fender Position	Impact Requiring Mitigation			Total Impact Area				
				Piers (SF)	Fenders (SF)	Total (SF)	Total (Acres)	Piers (SF)	Fenders (SF)	Total (SF)	Total (Acres)
20	SUBMERGED	RUB RAIL	ATTACHED	2,592.00	0.00	2,592.00	0.0595	2,592.00	0.00	2,592.00	0.0595
21	FLOATING	RUB RAIL	ATTACHED	226.19	0.00	226.19	0.0052	2,592.00	0.00	2,592.00	0.0595
22	FLOATING	CONCRETE	FLOATING	502.65	1,306.90	1,809.56	0.0415	7,332.00	30,500.00	37,832.00	0.8685
23	FLOATING	CONCRETE	FLOATING	502.65	1,306.90	1,809.56	0.0415	7,332.00	30,500.00	37,832.00	0.8685
24	FLOATING	CONCRETE	FLOATING	2,261.95	4,021.24	6,283.19	0.1442	19,080.00	51,200.00	70,280.00	1.6134
25	FLOATING	CONCRETE	FLOATING	2,261.95	4,021.24	6,283.19	0.1442	19,080.00	51,200.00	70,280.00	1.6134
26	FLOATING	CONCRETE	FLOATING	502.65	2,010.62	2,513.27	0.0577	7,332.00	30,500.00	37,832.00	0.8685
27	FLOATING	CONCRETE	FLOATING	502.65	1,306.90	1,809.56	0.0415	7,332.00	30,500.00	37,832.00	0.8685
28	FLOATING	RUB RAIL	ATTACHED	376.99	0.00	376.99	0.0087	6,992.00	0.00	6,992.00	0.1605
29	FLOATING	RUB RAIL	ATTACHED	226.19	0.00	226.19	0.0052	2,592.00	0.00	2,592.00	0.0595
30	FLOATING	RUB RAIL	ATTACHED	226.19	0.00	226.19	0.0052	2,592.00	0.00	2,592.00	0.0595
31	FLOATING	RUB RAIL	ATTACHED	226.19	0.00	226.19	0.0052	2,592.00	0.00	2,592.00	0.0595
TOTAL				24,382.09			0.5597	TOTAL		311,840.00	7.1589

- Notes:
- 1. Impacts calculated from plans dated 6/06/2025, and surveyed bathymetry
 - 2. Submerged position indicates the element is touching the river bottom
 - 3. Floating position indicates the element is supported of piles above the river bottom
 - 3. Attached position indicates the fender is attached to the pier foundation above the river bottom