

Temporary Tidal Waters Impacts	
Sheet 3	3.10 Acres
Sheet 4	2.41 Acres
Sheet 5	2.76 Acres
Temporary Piles	0.02 Acres
Geotechnical Borings	0.05 Acres
Test Piles	0.01 Acres
Test Drilled Shaft	0.01 Acres
Static Load Test	0.04 Acres
Total	8.40 Acres

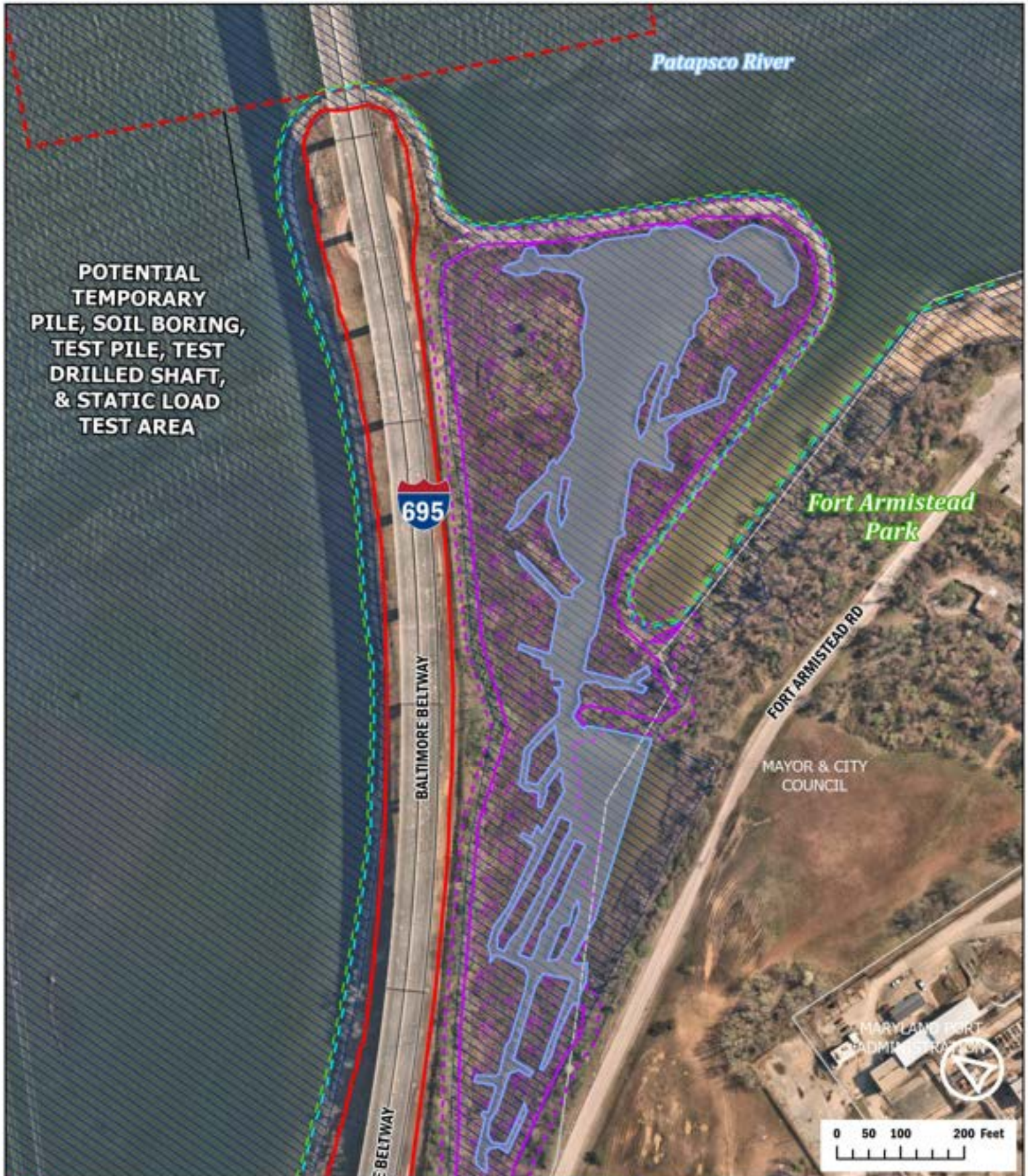
Note: No Impacts on Sheets 1 & 6

- ▭ Limits of Disturbance
- - - Potential Temporary Pile Area
- ▭ Streams
- ▭ Wetlands
- - - 25ft Wetland Buffer
- ▭ 100-Year Floodplain
- - - Approximate MLW Line
- - - MHHW Line
- - - MHW Line
- Property Parcels
- Municipal Boundaries



**Francis Scott Key
Bridge
Demolition
Impact Plates**

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**POTENTIAL
TEMPORARY
PILE, SOIL BORING,
TEST PILE, TEST
DRILLED SHAFT,
& STATIC LOAD
TEST AREA**

Patapsco River

695

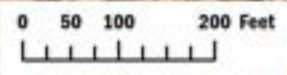
Fort Armistead
Park

BALTIMORE BELTWAY

FORT ARMISTEAD RD

MAYOR & CITY
COUNCIL

MARYLAND PORT
ADMINISTRATION

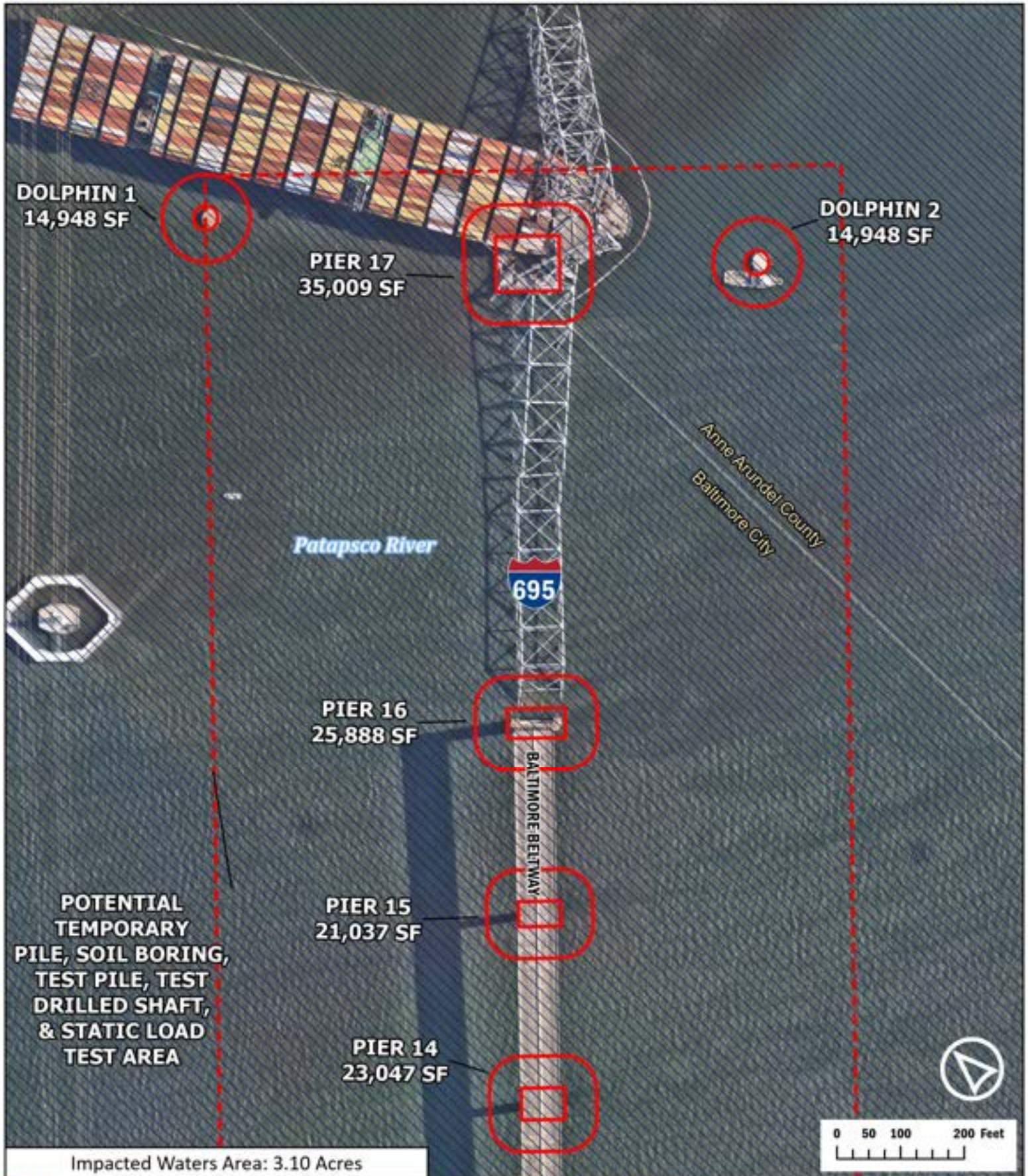


- | | | | |
|--|-------------------------------|--|----------------------|
| | Limits of Disturbance | | Approximate MLW Line |
| | Potential Temporary Pile Area | | MHHW Line |
| | Streams | | MHW Line |
| | Wetlands | | Property Parcels |
| | 25ft Wetland Buffer | | Municipal Boundaries |
| | 100-Year Floodplain | | |



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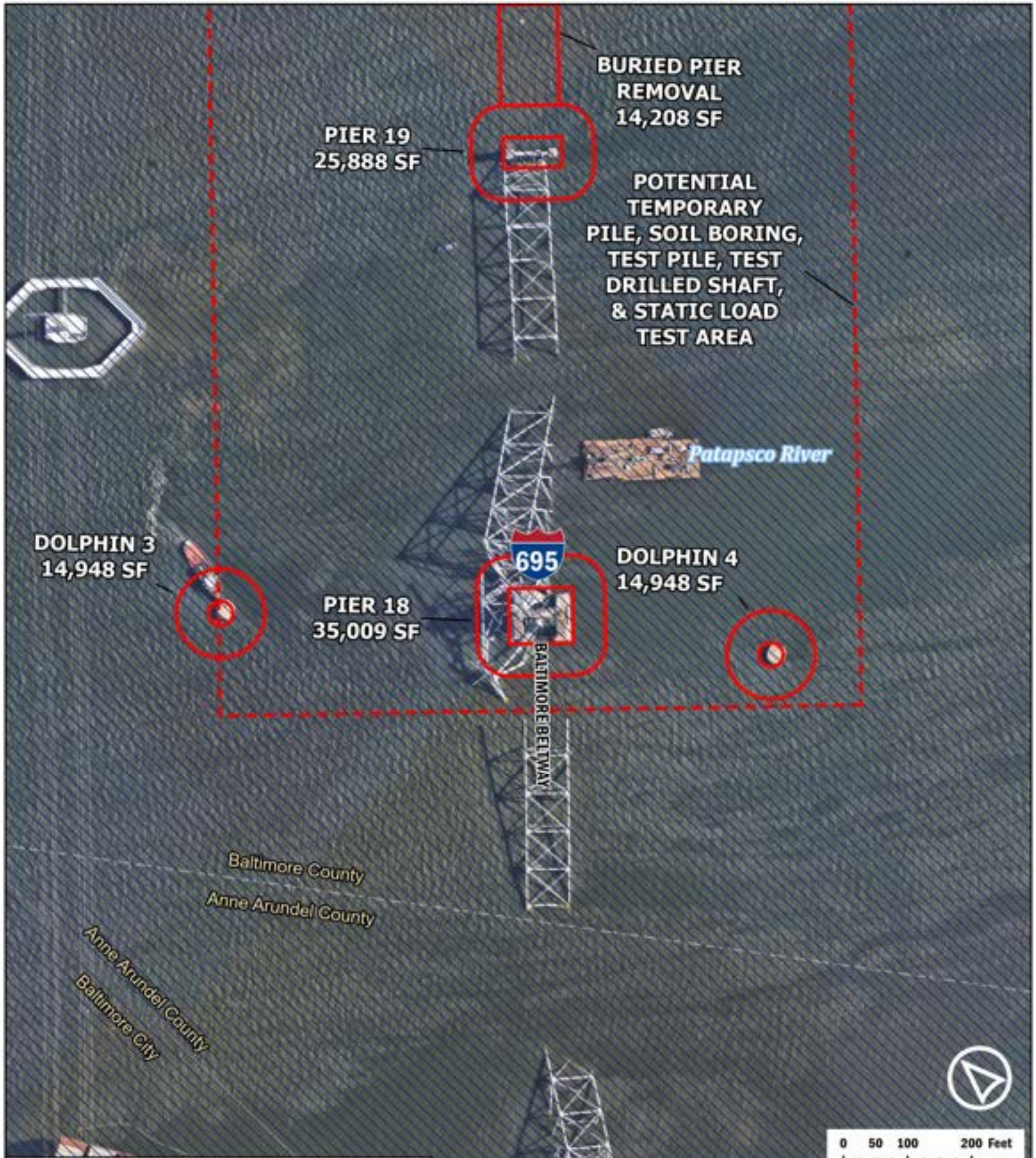
Impacted Waters Area: 3.10 Acres

- | | |
|-------------------------------|----------------------|
| Limits of Disturbance | Approximate MLW Line |
| Potential Temporary Pile Area | MHHW Line |
| Streams | MHW Line |
| Wetlands | Property Parcels |
| 25ft Wetland Buffer | Municipal Boundaries |
| 100-Year Floodplain | |



Francis Scott Key Bridge Demolition Impact Plates

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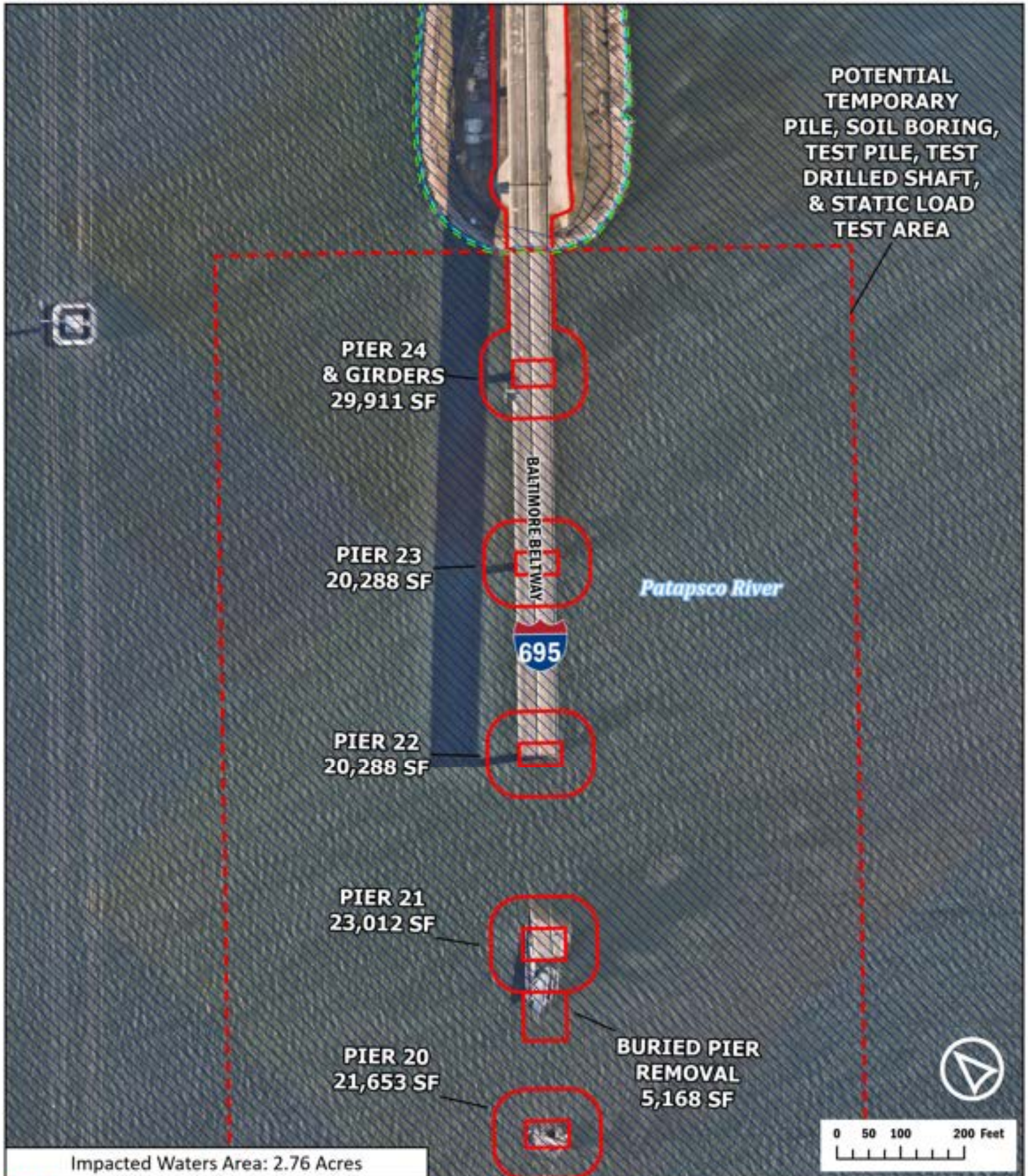
Impacted Waters Area: 2.41 Acres

- | | |
|-------------------------------|----------------------|
| Limits of Disturbance | Approximate MLW Line |
| Potential Temporary Pile Area | MHHW Line |
| Streams | MHW Line |
| Wetlands | Property Parcels |
| 25ft Wetland Buffer | Municipal Boundaries |
| 100-Year Floodplain | |



**Francis Scott Key
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POTENTIAL TEMPORARY PILE, SOIL BORING, TEST PILE, TEST DRILLED SHAFT, & STATIC LOAD TEST AREA

PIER 24 & GIRDERS
29,911 SF

PIER 23
20,288 SF

PIER 22
20,288 SF

PIER 21
23,012 SF

PIER 20
21,653 SF

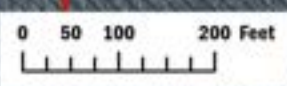
BURIED PIER REMOVAL
5,168 SF

Patapsco River

BALTIMORE BELTWAY



Impacted Waters Area: 2.76 Acres



- Limits of Disturbance
- Potential Temporary Pile Area
- Streams
- Wetlands
- 25ft Wetland Buffer
- 100-Year Floodplain
- Approximate MLW Line
- MHHW Line
- MHW Line
- Property Parcels
- Municipal Boundaries



Francis Scott Key Bridge Demolition Impact Plates

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- | | |
|-------------------------------|----------------------|
| Limits of Disturbance | Approximate MLW Line |
| Potential Temporary Pile Area | MHHW Line |
| Streams | MHW Line |
| Wetlands | Property Parcels |
| 25ft Wetland Buffer | Municipal Boundaries |
| 100-Year Floodplain | |



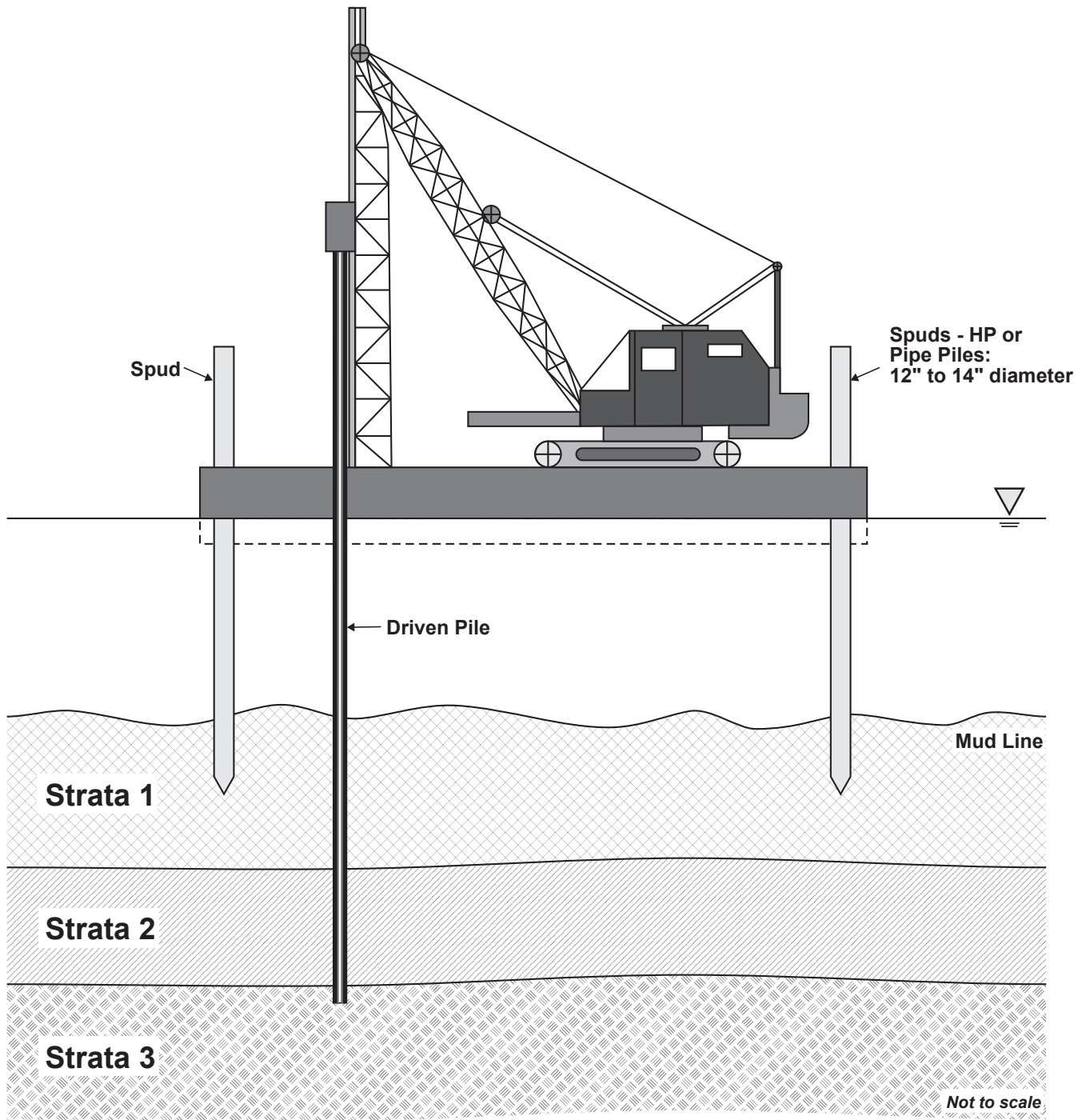
MDTA
Maryland
Transportation
Authority

MDT
MARYLAND DEPARTMENT
OF TRANSPORTATION
STATE HIGHWAY
ADMINISTRATOR

**Francis Scott Key
Bridge
Demolition
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Foundation Testing Program Cross-Section – Pile Test



33 sq. ft. impact/pile test

Total impact not to exceed 462 sq. ft. (14 pile tests)

Note: Test piles will be driven into the substrata using an impact hammer for the purposes of evaluating pile foundation capacities and developing the hydro acoustic monitoring program. The pile driving equipment will be mounted on a barge, and spuds on the four corners of the barge will be used to keep the barge in position. Upon completion, all piles will be cut off below the mudline. Piles may also be subjected to load testing per ASTM D7383 "Axial Compressive Force Pulse (Rapid) Testing of Deep Foundations" (i.e. Statnamic or other tests allowed by the ASTM D7383), when allowed by the Authority.

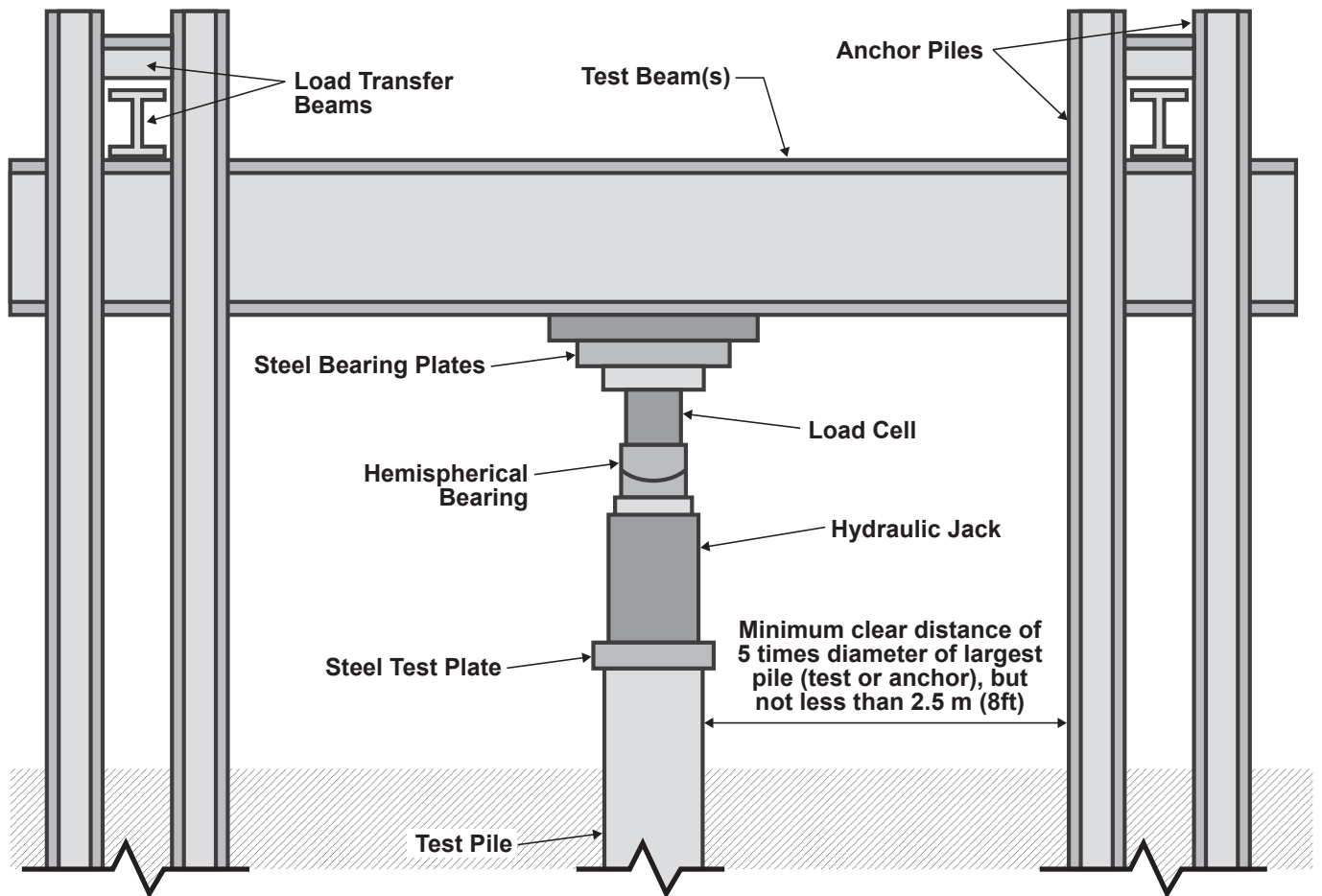


Maryland
Transportation
Authority

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Rebuild Project
Preliminary Engineering**

July 2024

Foundation Testing Program Cross-Section – Static Load Test



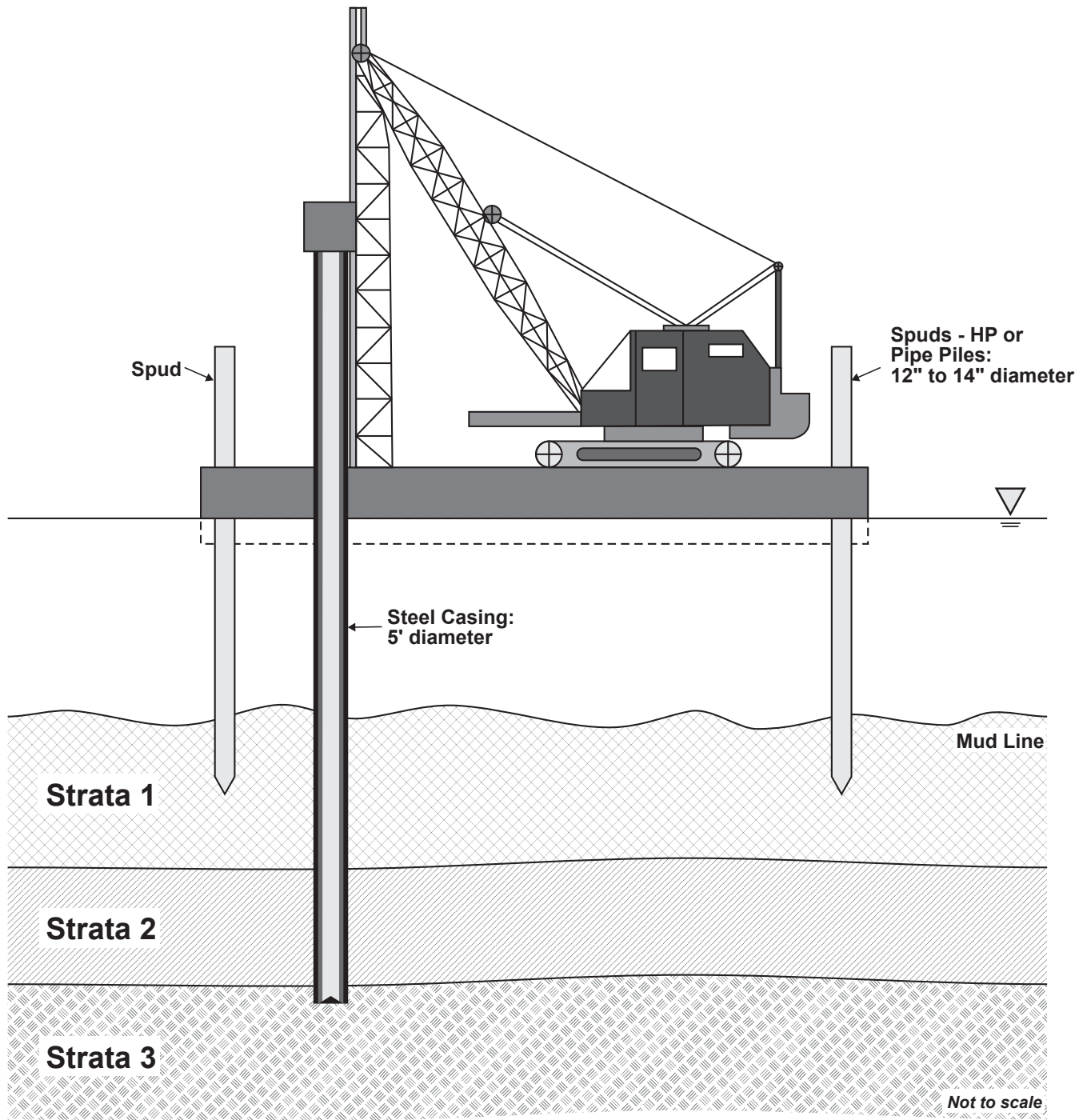
260 sq. ft. impact (1 shaft or pile)
Total impact not to exceed 1,560 sq. ft. (6 tests)

Note: Static load test includes one drilled shaft or pile, and a four reaction shaft pile array. Shaft and piles are installed in river bottom and loaded with weight. Then upon completion test shaft and reaction piles will be cut below the mudline.



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Foundation Testing Program Cross-Section – Drilled Shaft



50 sq. ft. impact (1 shaft)
Total impact not to exceed 300 sq. ft. (6 shafts)

Note: A 5-foot diameter drilled shaft will be constructed to determine the capacity of this foundation type. A steel casing will be installed into the substrata for construction of the shaft. Upon reaching the appropriate depth; testing equipment, rebar and concrete will be installed within the steel casing. The drilled shaft rig will be mounted on a barge, and spuds on the four corners of the barge will be used to keep the barge in position. Upon completion, the drilled shaft will be cut off below the mudline.



Maryland
Transportation
Authority

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July 2024**