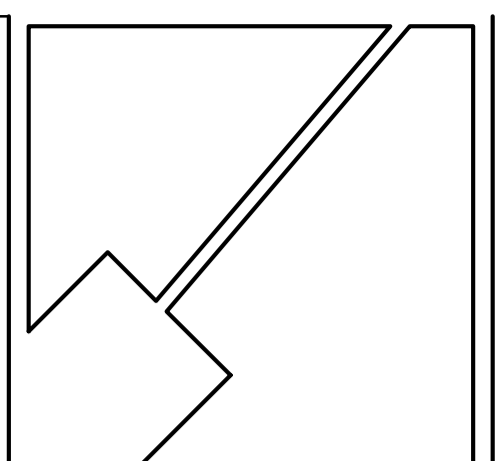


PARCEL 11		
NO.	BEARING	DISTANCE
1	S21°36'19"W	278.69'
2	N72°30'44"W	271.89'
3	S69°29'08"W	587.92'
4	N36°24'40"W	622.38'
5	N31°34'45"E	749.16'



THE MARYLAND-NATIONAL CAPITAL PARK & RECREATION COMMISSION

DEPARTMENT OF PARKS & RECREATION
 PRINCE GEORGE'S COUNTY
 6600 KENILWORTH AVENUE
 RIVERDALE, MARYLAND 20737
 301-699-2481

PATUXENT RIVER PARK

JACKSON'S LANDING

PARK # R91
 16000 CROOM AIRPORT RD
 UPPER MARLBORO MD
 20772

CONSULTANT

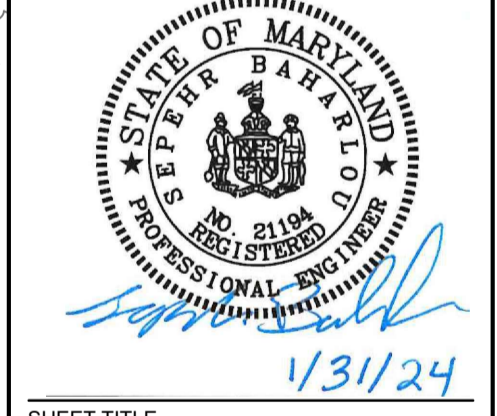


DESIGN: MB/AJ

DRAWN: MB/DG

PROJECT MANAGER: FRANCIS KANG

PROFESSIONAL CERTIFICATION
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SHEET TITLE

KEY SHEET

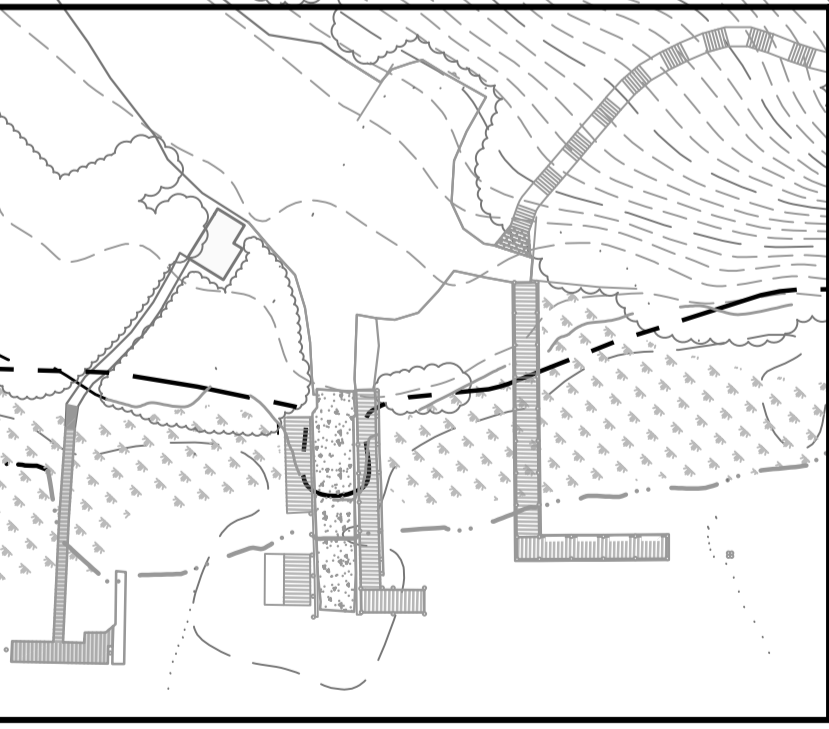
BID NO.

DATE: 05/14/24

ISSUE: DATE

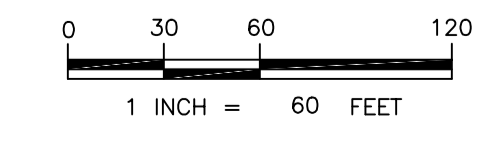
SHEET NO.

2 OF 9



PROJECT LOCATION

KEY SHEET
 SCALE: 1" = 60'



Prince George's County, Maryland
 Department of Permitting, Inspections and Enforcement

APPROVED PERMIT SET

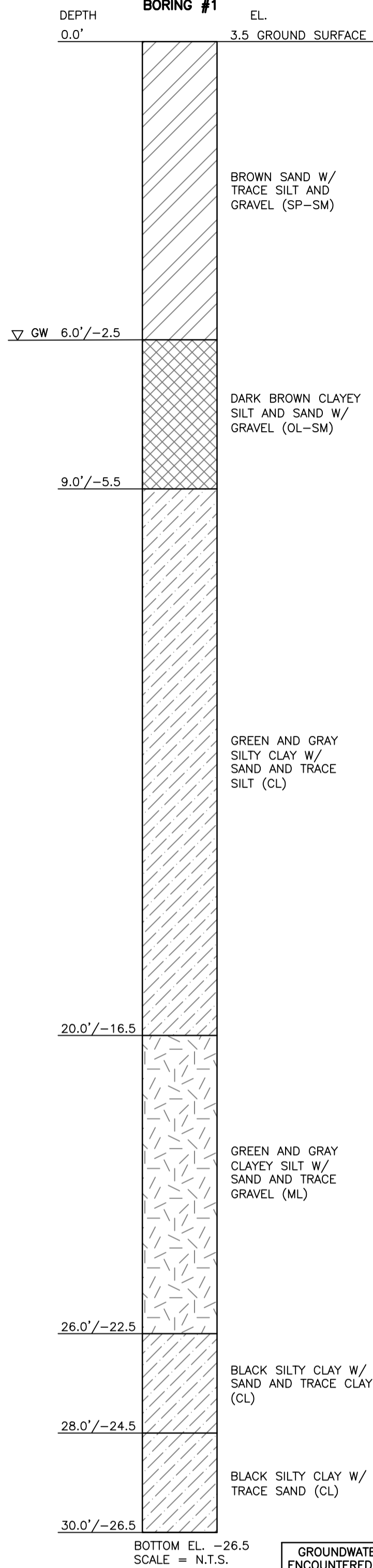
The Department of Permitting, Inspections and Enforcement has completed a review of this document for code compliance. As required by State Code, the design professional(s) responsible for the preparation and content of this document must provide a record copy of these documents with their original seal, signature and date.

Case Name: MNCPRC Department of P&R DEMO/EXTERIOR
 Application Number: 38024-2024-CG
 Permit Title: Safety
 Issuance Date: 06/26/24
 Address: DP/IE

APPROVED AS NOTED BY BUILDING SECTION

Z:_R91\401_JACKSONS_LANDING_BOAT_LANE\CAD Files\Sheet Title\8-24\401_4R21

SOIL BORING LOG



DEMOLITION

DESCRIPTION	QUANTITY
INDIVIDUAL TIMBER PILES	2 PILES
FIXED PIERS (3)	1,630 SF TOTAL
GANGWAY	80 SF
FLOATING DOCK	130 SF
TIMBER WALLS (2)	124 LF TOTAL
BOAT RAMP	840 SF
PAVEMENT	152 SF

*THE DEMOLITION QUANTITIES SHOWN HEREON ARE FOR INFORMATION PURPOSES ONLY. BAYLAND MAKES NO GUARANTEES OF ACCURACY OF THE QUANTITIES. THE CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ACTUAL EXISTING STRUCTURES INSIDE OF THE LIMIT OF DEMOLITION AND

APPROVED PERMITS
 Department of Permitting, Inspections and Enforcement

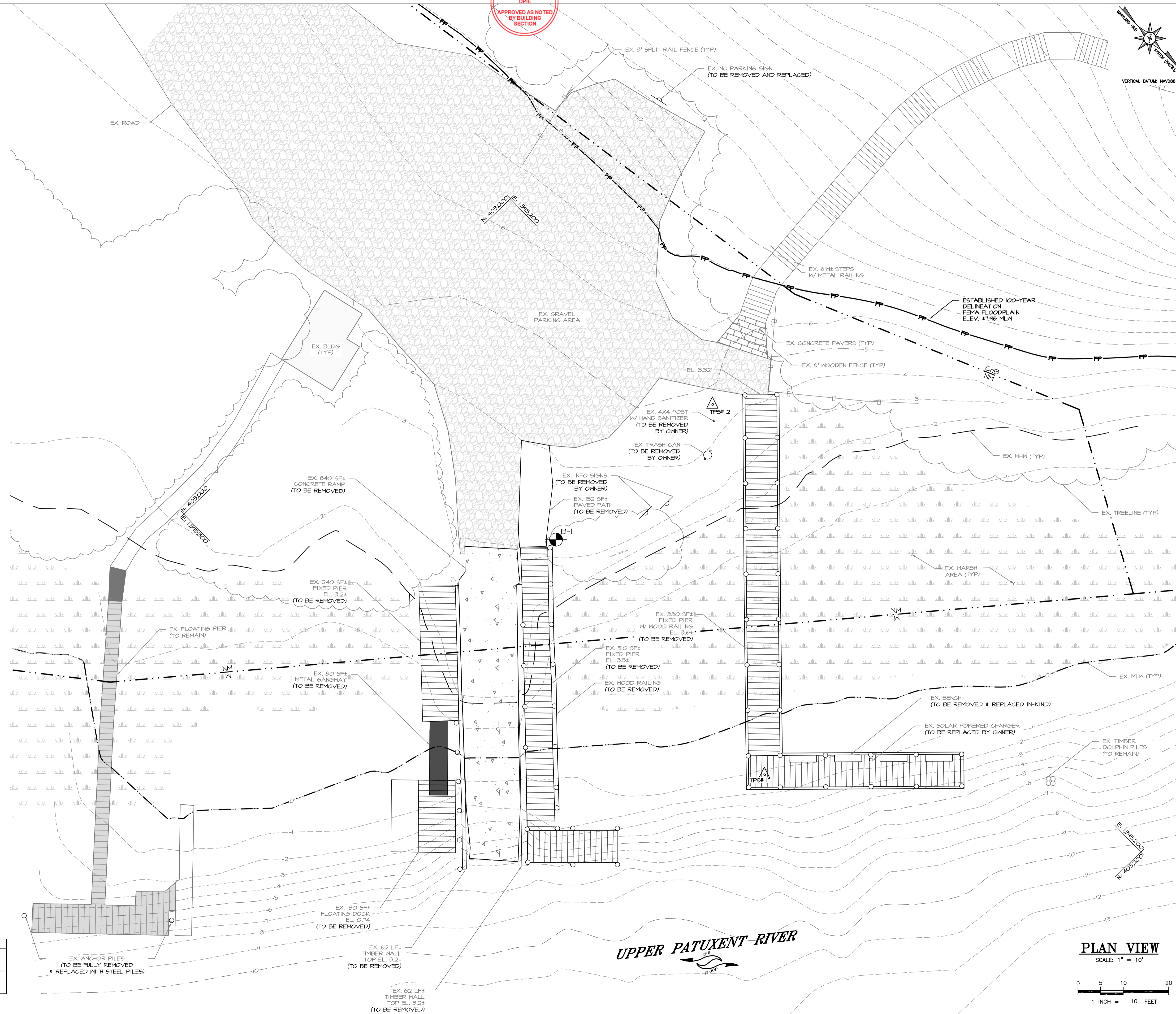
SOILS CHART

HSG	
B	
C/D	

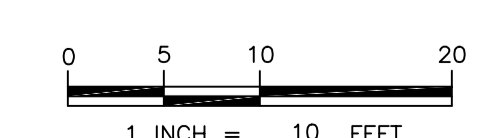
Case Name: MNCPPC Department of Parks and Recreation
 Application Number: 2024-CG
 Permit Number: P61687-2024-CG
 Issuance Date: 06/26/24
 Address:



P.G.C.
 Structural
 DPIE
 APPROVED AS NOTED
 BY BUILDING SECTION



PLAN VIEW
 SCALE: 1" = 10'



THE MARYLAND-
 PARKS & RECREATION
 NATIONAL COMMISSION

DEPARTMENT OF
 PARKS & RECREATION
 PRINCE GEORGE'S COUNTY
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 301-699-2481

PATUXENT RIVER
 PARK

JACKSON'S
 LANDING

PARK # R91
 16000 CROOM AIRPORT
 RD
 UPPER MARLBORO MD
 20772

CONSULTANT
 Consultants & Designers, Inc.
 "Integrating Engineering and Environment"
 7471 New Ridge Road, Suite T Phone: (410) 644-6444
 Hanover, Maryland 21076 Fax: (410) 644-6444
 www.bayland.com

DESIGN: MB/AJ
 DRAWN: MB/DG
 PROJECT MANAGER: FRANCIS KANG

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SHEET TITLE
**EXISTING
 CONDITIONS &
 DEMOLITION
 PLAN**

BID NO.
 DATE: 05/14/24
 ISSUE: DATE

SHEET NO.

3 OF 9

Department of Permitting, Inspections and Enforcement
 APPROVED PERMITS
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 Case Name: MNCPPC Department of Parks and Recreation
 Application Number: 2024-CG
 Permit Number: P61687-2024-CG
 Issuance Date: 06/26/24
 Address:
 Lot(s), Block(s) and Parcel(s):

Z:_34407_LANDSCAPE\LANDSCAPE\BOAT_RAMP\CAD Files\Sheet Title_R91.dwg

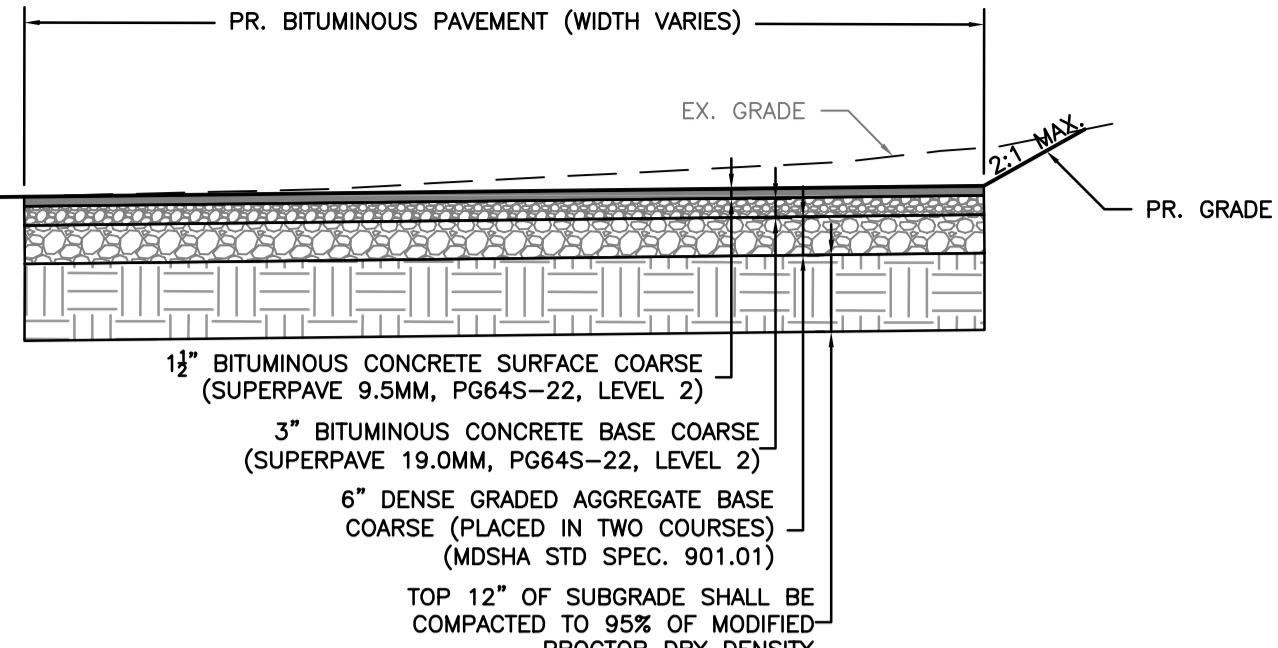
P.G.C.
Structural
DPIE
APPROVED AS NOTED
BY BUILDING
SECTION

SIGN LEGEND

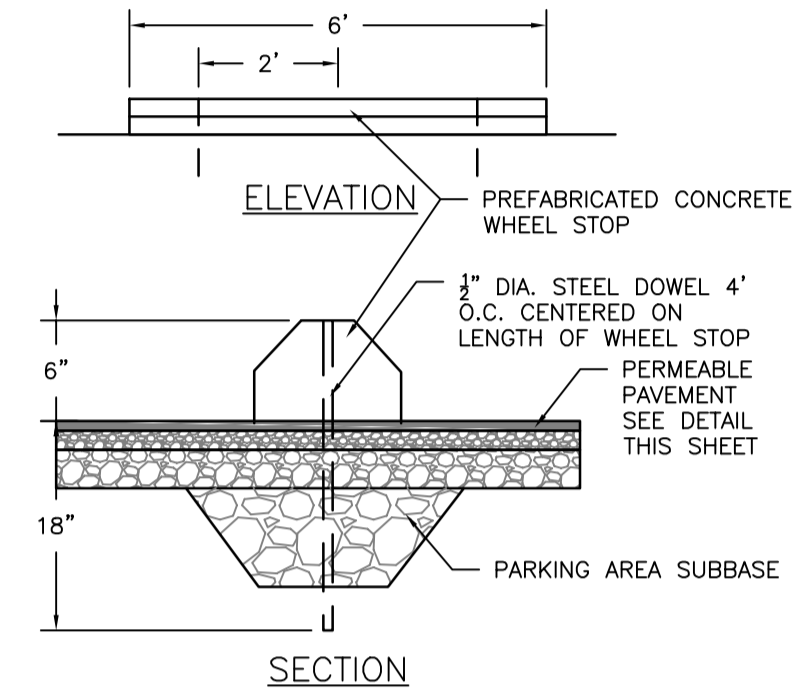
- 1 NO PARKING LOADING ZONE
 - 2 NO PARKING ANY TIME
 - 3 HANDICAP PARKING VAN ACCESSIBLE
- SEE DETAIL SHEET 9 FOR SIGNS

LEGEND

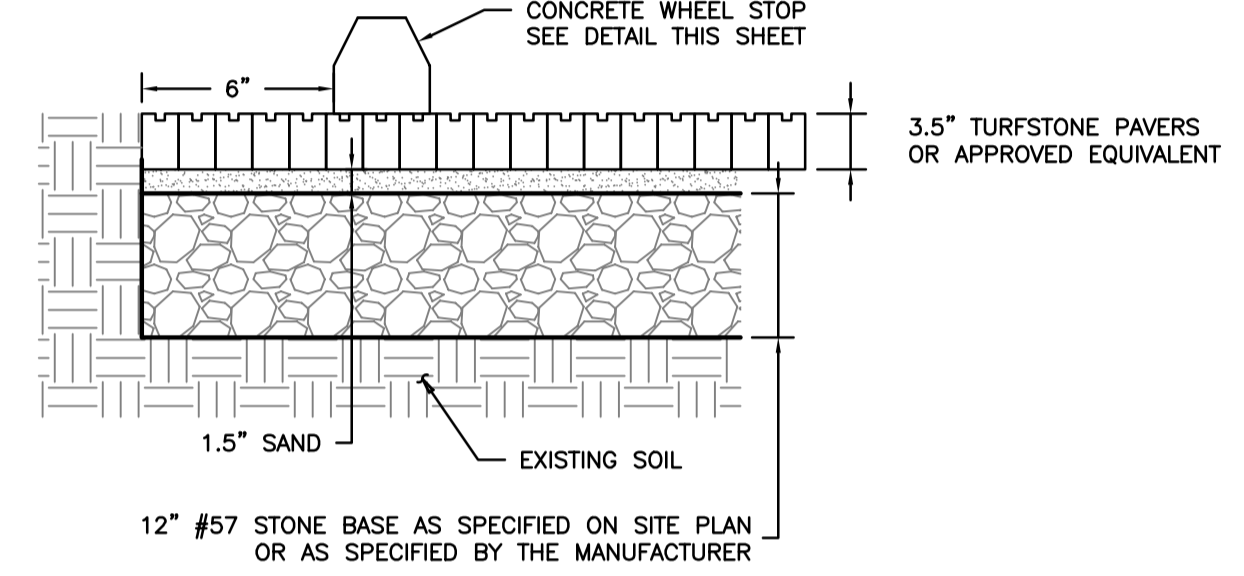
- PR. FIXED PIER
- PR. FLOATING PIER
- PR. BITUMINOUS PAVEMENT
SEE DETAIL SHEET 9
- PR. CONCRETE BOAT RAMP & ABUTMENT
SEE DETAILS SHEET 6
- PR. RAMP TOE
- EX. GRAVEL ROAD
- PR. FISHING STATION
- PR. FIRE PEDESTAL WITH LIFE RING
- PR. LADDER



BITUMINOUS PAVEMENT DETAIL
SCALE: NOT TO SCALE



CONCRETE WHEEL STOP
SCALE: NOT TO SCALE



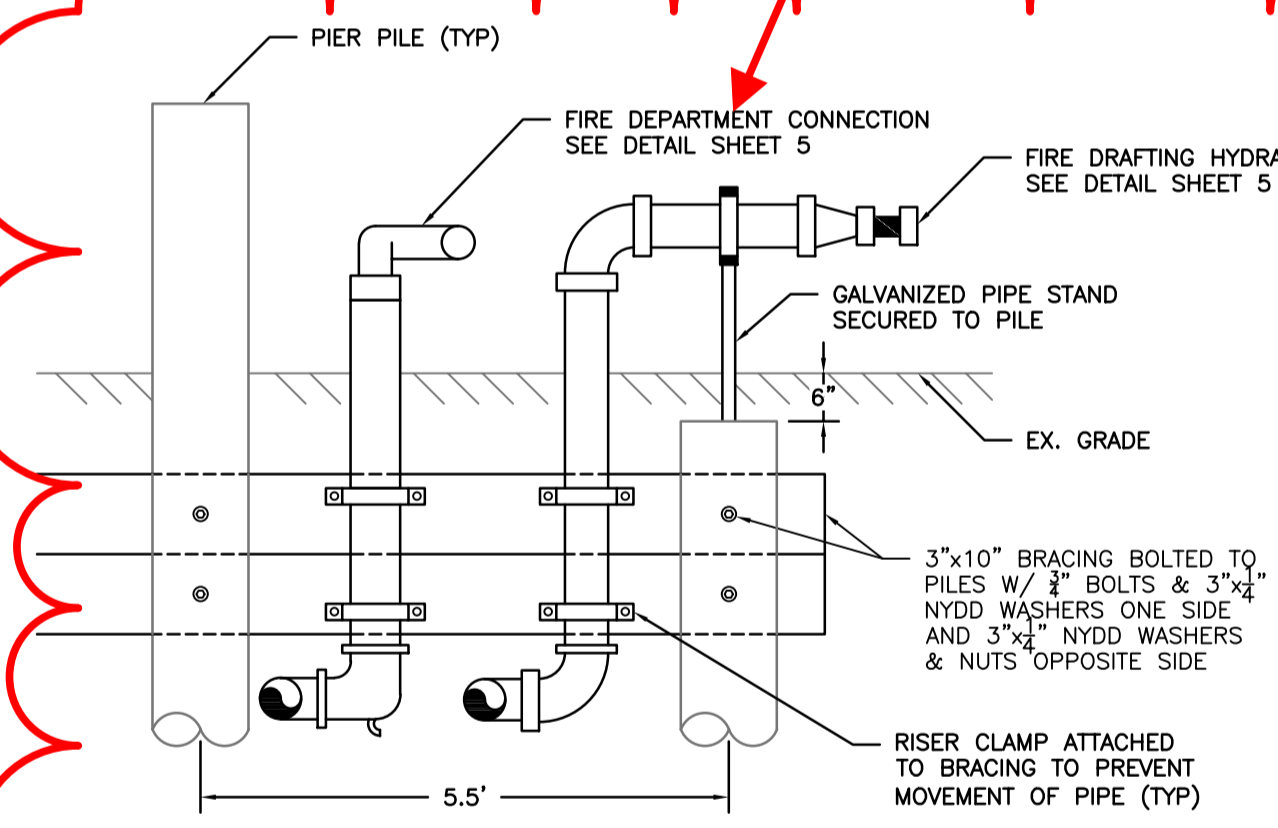
GRASS PERMEABLE PAVEMENT DETAIL
SCALE: 1" = 1'

NOTE: GROUND DISTURBANCE OUTSIDE THE LOD IS NOT PERMITTED. CONSTRUCTION MATS MAY BE UTILIZED LANDWARD OF MHW ADJACENT TO THE TIMBER PIERS FOR CONSTRUCTION. MATTING SHALL BE TEMPORARILY STABILIZED OR COVERED AT THE END OF EACH WORKDAY.

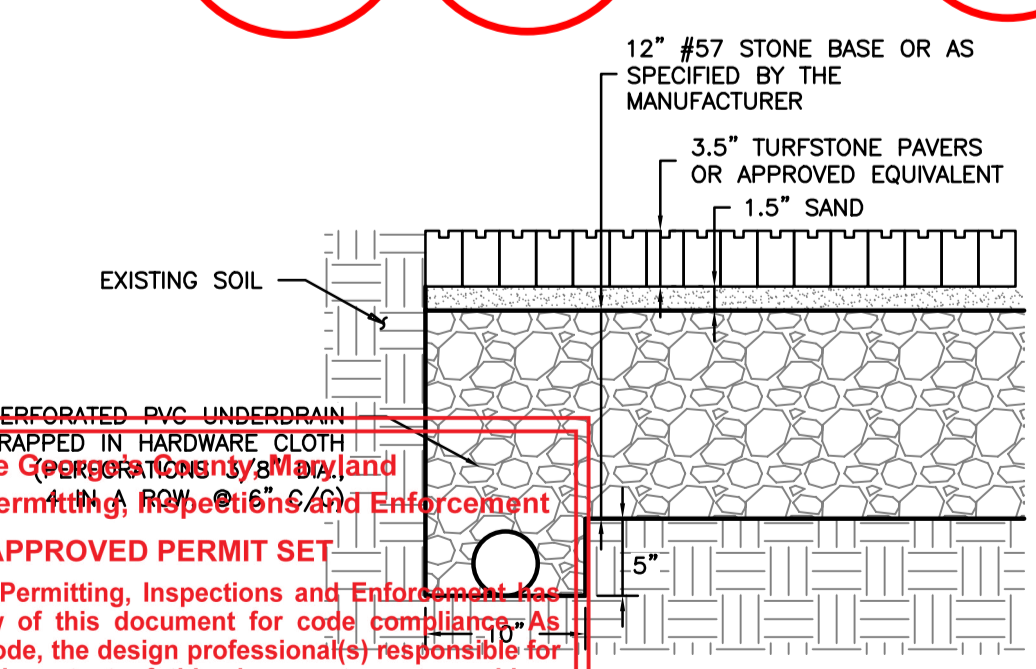
NOTE: NON-ERODIBLE MATERIALS MAY BE STOCKPILED WITHIN THE LIMITS OF DISTURBANCE. ANY ERODIBLE STOCKPILES SHALL BE TEMPORARILY STABILIZED OR COVERED AT THE END OF EACH WORKDAY.

NOTE: SEE BUFFER MANAGEMENT PLAN DATED 4/25/2023 FOR PLANTING NOTES, DETAILS, AND SCHEDULES.

NOTES:
1. MANUFACTURER'S RECOMMENDED INSTALLATION PRACTICES MUST BE FOLLOWED.
2. SUBSURFACE SOILS SHOULD BE PROTECTED FROM CONSTRUCTION TRAFFIC.



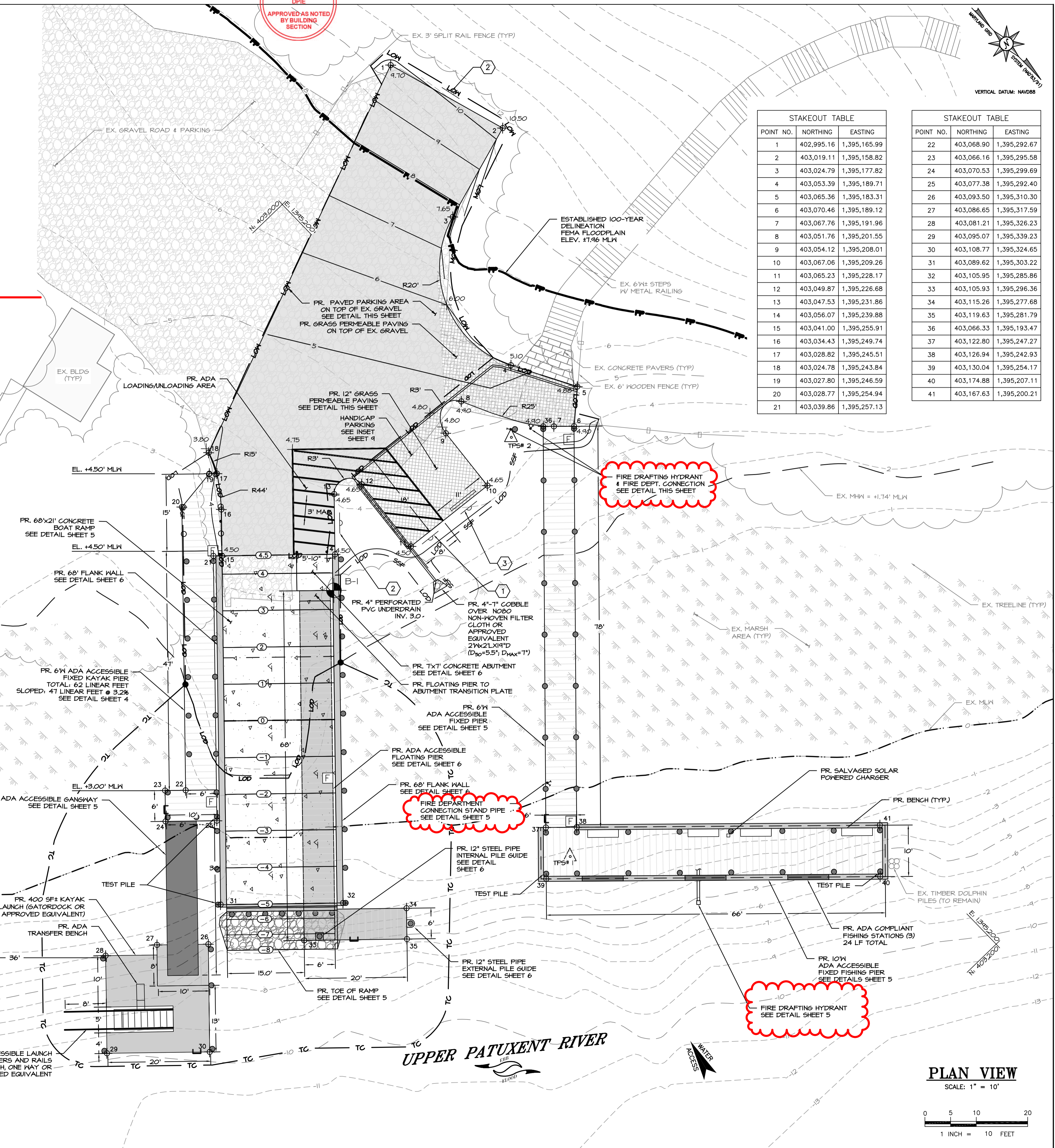
FIRE DEPARTMENT CONNECTION & DRAFTING HYDRANT DETAIL
SCALE: 1" = 2'
(CONTRACTOR TO FIELD VERIFY HANGERS AND PIPE SUPPORTS/RISER CLAMPS)



UNDERDRAIN DETAIL
SCALE: 1" = 1'

NOTE: UNDERDRAIN SHALL BE INSTALLED & STABILIZED AT THE END OF THE WORK DAY.

Lot(s), Block(s) and Parcel(s):
DPIE
DEPARTMENT OF PERMITTING, INSPECTIONS AND ENFORCEMENT



STAKEOUT TABLE

POINT NO.	NORTHING	EASTING
1	402,995.16	1,395,165.99
2	403,019.11	1,395,158.82
3	403,024.79	1,395,177.82
4	403,053.39	1,395,189.71
5	403,065.36	1,395,183.31
6	403,070.46	1,395,189.12
7	403,067.76	1,395,191.96
8	403,051.76	1,395,201.55
9	403,054.12	1,395,208.01
10	403,067.06	1,395,209.26
11	403,065.23	1,395,228.17
12	403,049.87	1,395,226.68
13	403,047.53	1,395,231.86
14	403,056.07	1,395,239.88
15	403,041.00	1,395,255.91
16	403,034.43	1,395,249.74
17	403,028.82	1,395,245.51
18	403,024.78	1,395,243.84
19	403,027.80	1,395,246.59
20	403,028.77	1,395,254.94
21	403,039.86	1,395,257.13

STAKEOUT TABLE

POINT NO.	NORTHING	EASTING
22	403,068.90	1,395,292.67
23	403,066.16	1,395,295.58
24	403,070.53	1,395,299.69
25	403,077.38	1,395,292.40
26	403,093.50	1,395,310.30
27	403,086.65	1,395,317.59
28	403,081.21	1,395,326.23
29	403,095.07	1,395,339.23
30	403,108.77	1,395,324.65
31	403,089.62	1,395,303.22
32	403,105.95	1,395,285.86
33	403,105.93	1,395,296.36
34	403,115.26	1,395,277.68
35	403,119.63	1,395,281.79
36	403,066.33	1,395,193.47
37	403,122.80	1,395,247.27
38	403,126.94	1,395,242.93
39	403,130.04	1,395,254.17
40	403,174.88	1,395,207.11
41	403,167.63	1,395,200.21

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Fax: (410) 644-6446
www.bryceinc.com

DESIGN: MB/AJ
DRAWN: MB/DG
PROJECT MANAGER: FRANCIS KANG

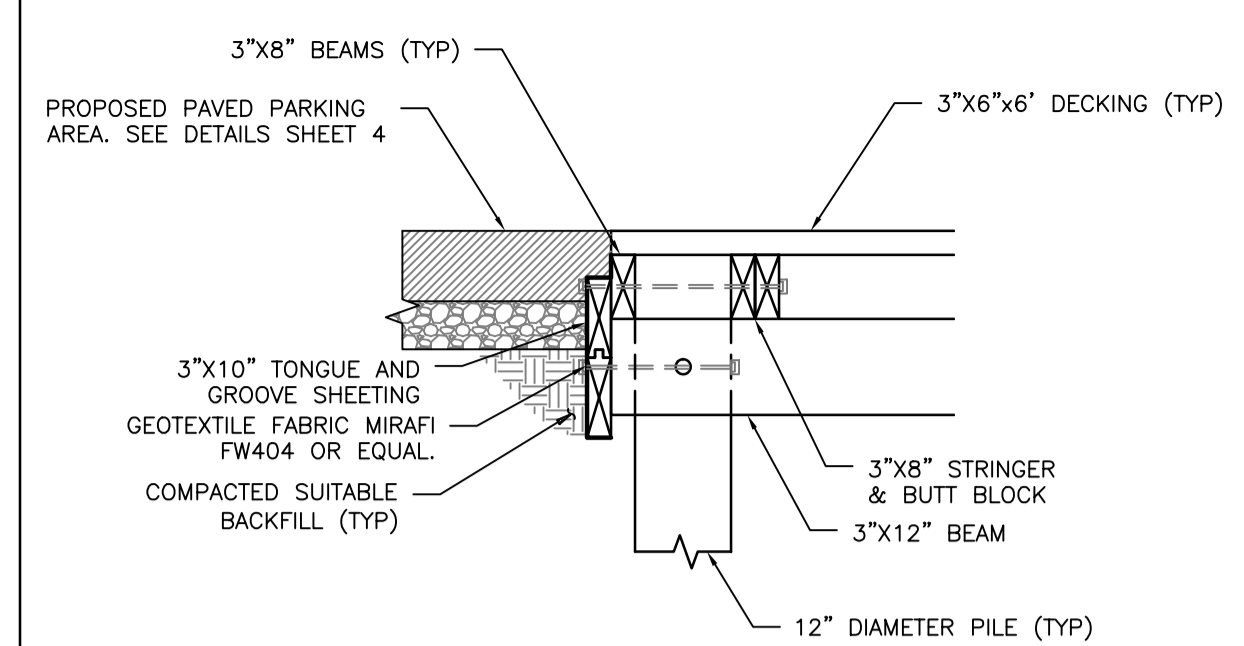
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SHEET TITLE
SITE PLAN

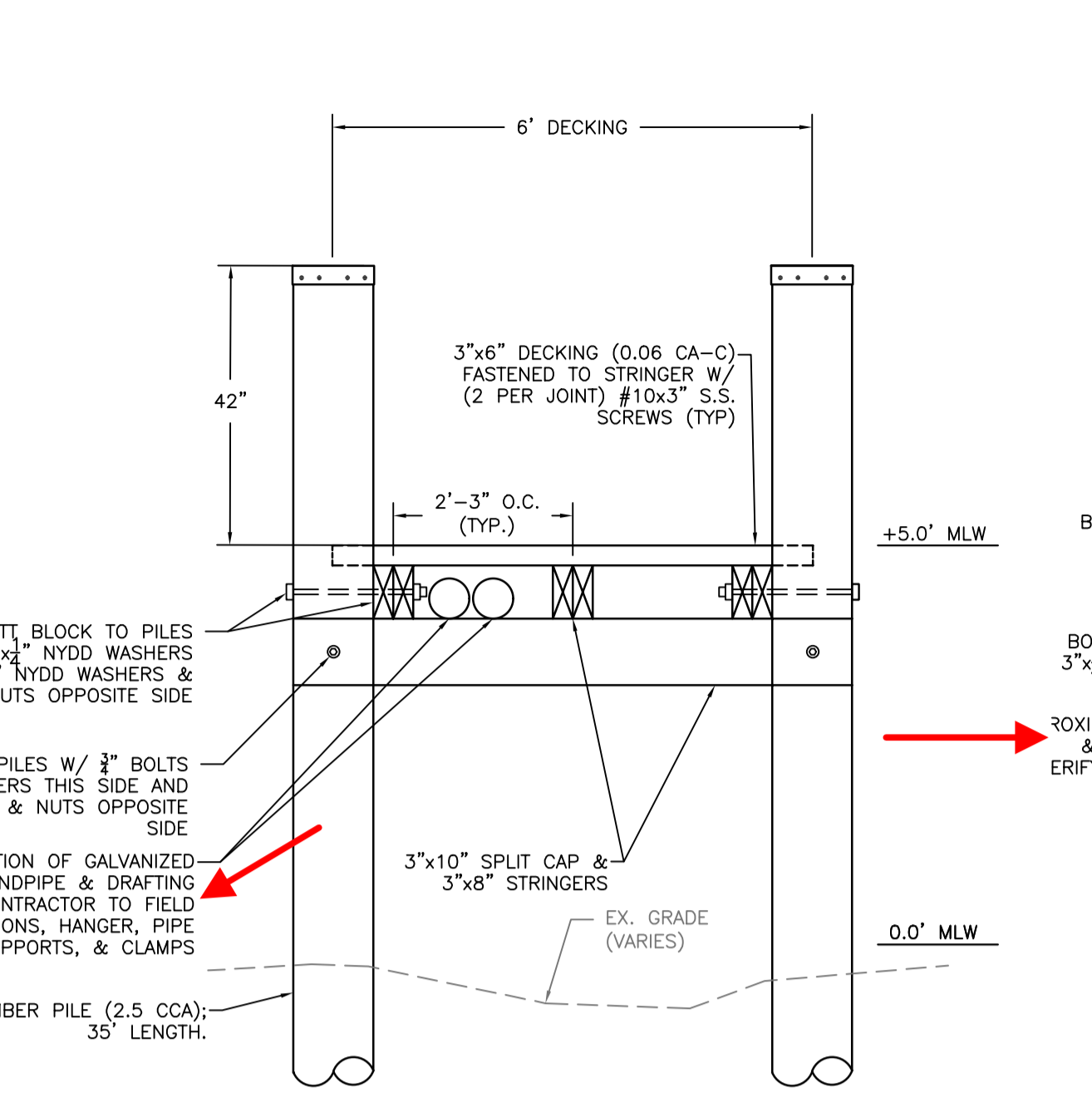
BID NO.
DATE: 05/14/24
ISSUE: DATE

SHEET NO.

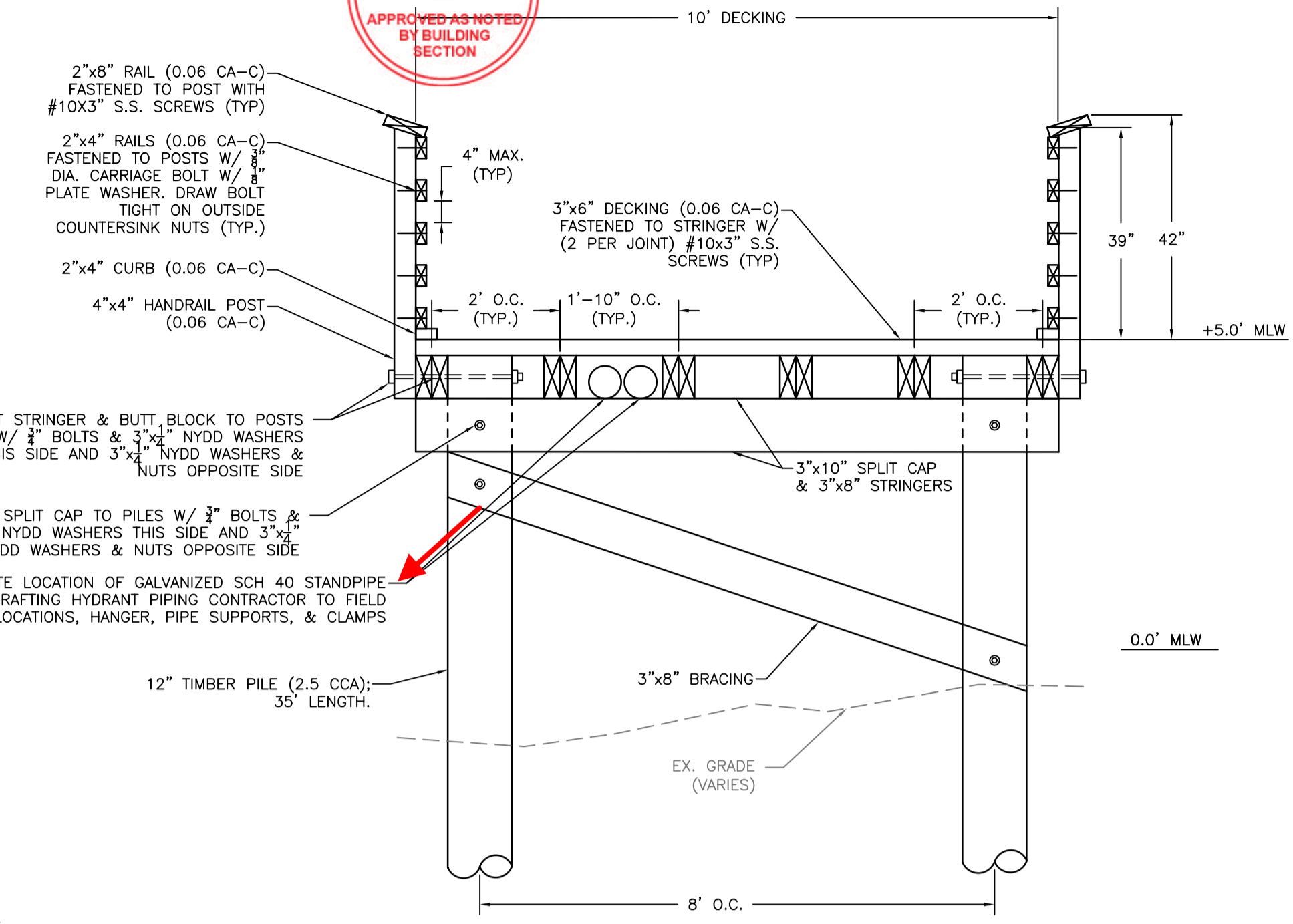


PIER TO PAVEMENT TRANSITION
SCALE: 1" = 2"

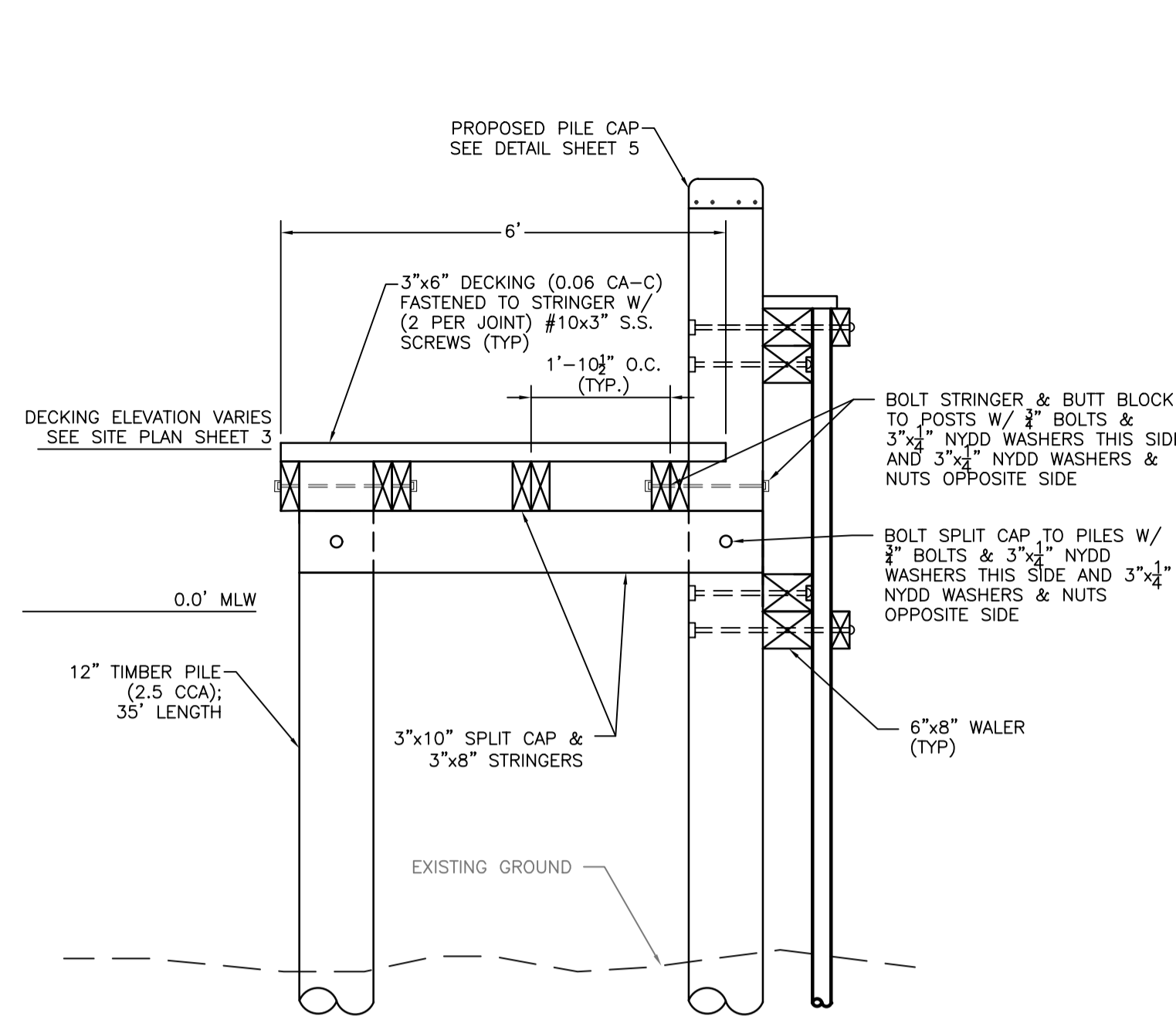
- NOTES:
- ALL DIMENSIONAL LUMBER SHALL BE NO.1 SYP AND TREATED WITH: STRUCTURAL LUMBER - 1.0 CCA, UNLESS SPECIFIED OTHERWISE. CAPBOARD - 0.06 CA-C
 - TIMBER PILES SHALL BE 12" DIA. TYPE 'B' AND TREATED W/ 2.5 CCA.
 - ALL EXPOSED HARDWARE SHALL BE COUNTERSUNK WITH EXCEPTION OF DOME HEADED BOLTS INSTALLED INTO THE LINERS.
 - ALL HARDWARE SHALL BE HOT DIPPED GALVANIZED (GALV.).
 - STEEL PILES FOR THE FLOATING PIER SHALL BE DRIVEN TO A MINIMUM TIP ELEVATION OF -35.0', UNLESS OTHERWISE SPECIFIED, AND TO ACHIEVE A VERTICAL BEARING CAPACITY OF 10 TONS. MINIMUM TIMBER PILES FOR THE FIXED PIERS AND FLANK WALLS SHALL BE DRIVEN TO A MINIMUM TIP ELEVATION OF -25.0', UNLESS OTHERWISE SPECIFIED, AND TO ACHIEVE A VERTICAL BEARING CAPACITY OF 10 TONS. MINIMUM THE CONTRACTOR SHALL DRIVE TEST PILES WITH A DROP HAMMER AT THE LOCATIONS SHOWN ON THE PLAN VIEW PRIOR TO ORDERING PILES FOR THE PROJECT. THE VERTICAL BEARING CAPACITY SHALL BE DETERMINED BY THE ENR FORMULA. THE PILE TEST RESULTS SHALL BE USED TO DETERMINE THE LENGTHS OF THE PILES FOR THE PROJECT THAT WILL ACHIEVE THE MINIMUM BEARING CAPACITY NOTED ABOVE. THE CONTRACTOR SHALL FURNISH THE TEST PILE RESULTS TO MNCPPC, OR ITS AGENT, FOR REVIEW AND APPROVAL PRIOR TO ORDERING THE PILES FOR THE PROJECT.
 - PILES SHALL HAVE SUFFICIENT LENGTHS AND ADEQUATE BEARING AS DETERMINED BY THE TEST PILES. THE CONTRACTOR SHALL FURNISH THE OWNER AND/OR HIS AGENT WITH THE RECORD OF EACH DAY'S PILE DRIVING FOR REVIEW.
 - PILE LENGTHS SHOWN ARE FOR BIDDING PURPOSES ONLY. PILE LENGTHS SHALL BE DETERMINED BY TEST PILE RESULTS.
 - CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF PROPOSED PIER TO MNCPPC, OR ITS AGENT, FOR APPROVAL.



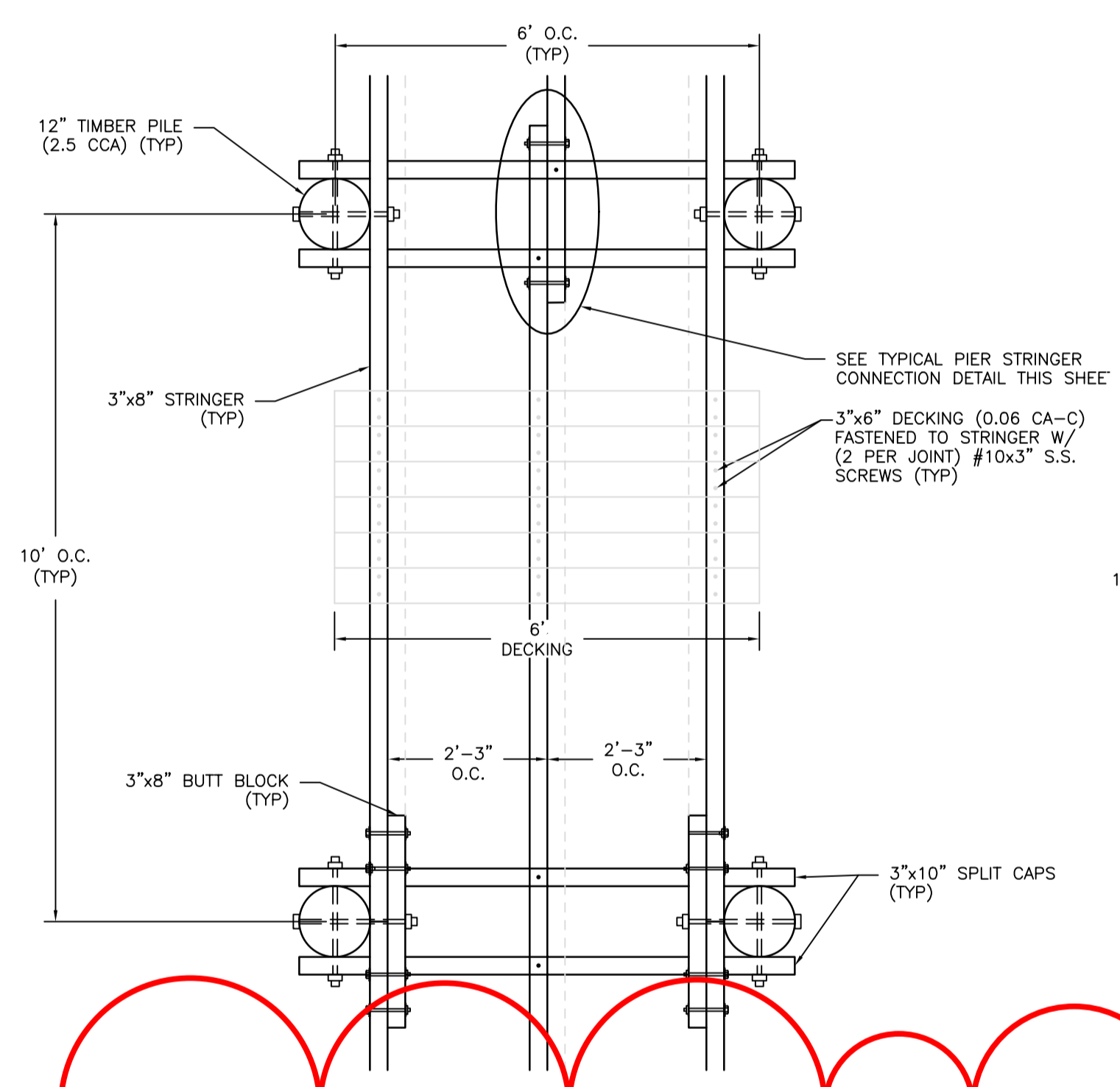
TYPICAL 6' FISHING PIER CROSS SECTION
SCALE: 1" = 2"



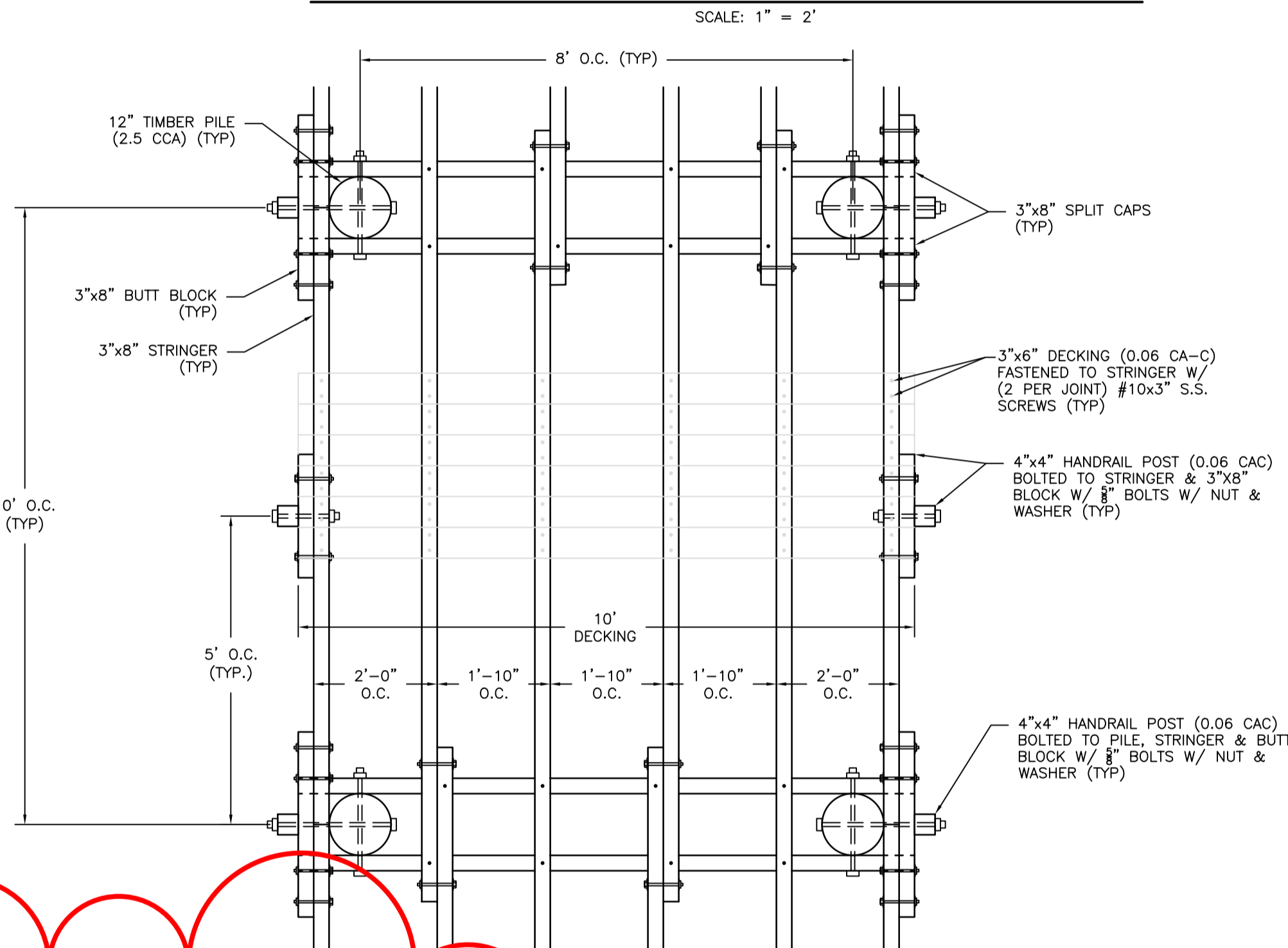
TYPICAL 10' FIXED PIER CROSS SECTION
SCALE: 1" = 2"



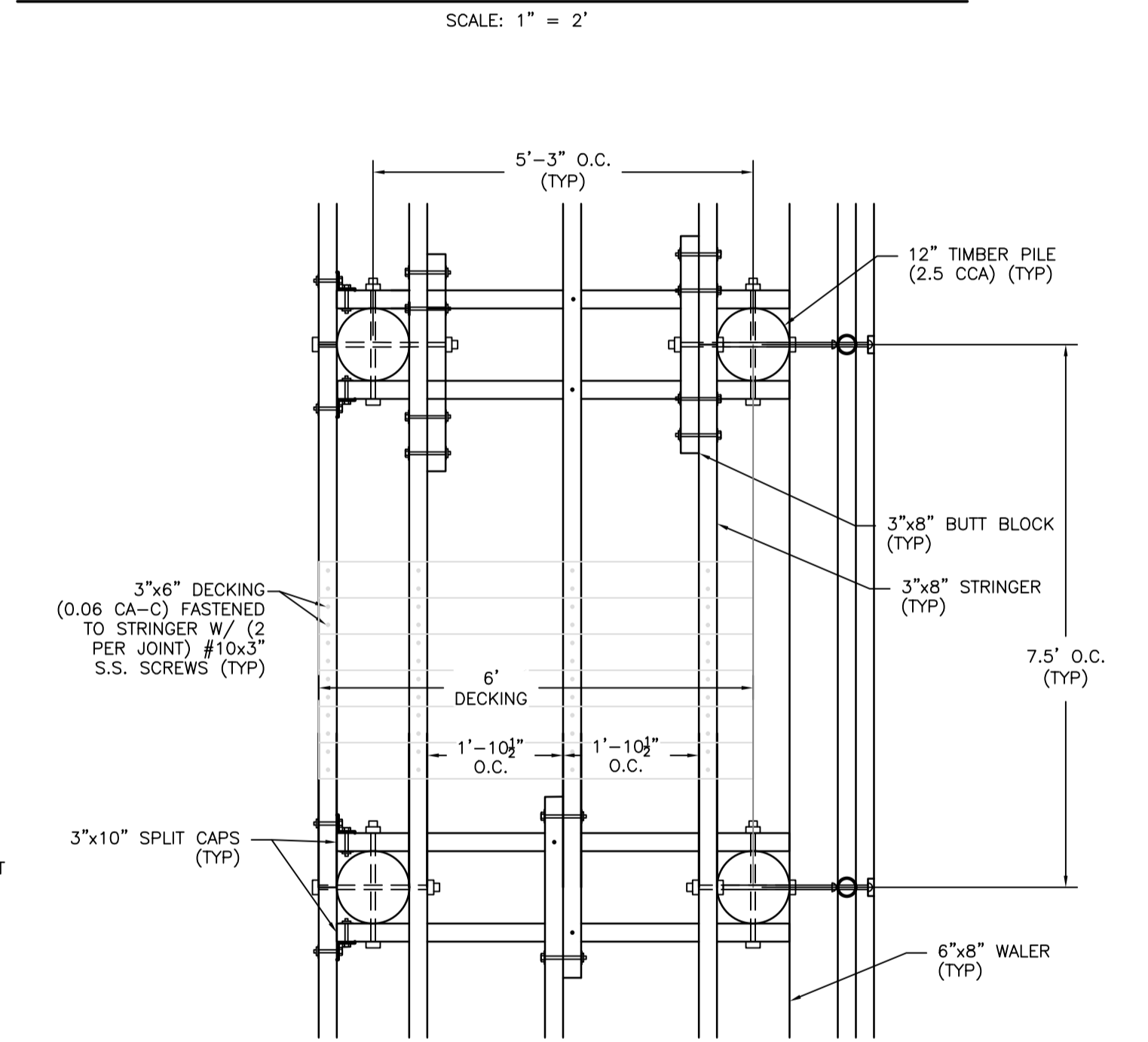
TYPICAL 6' FIXED KAYAK PIER SECTION
SCALE: 1" = 2"



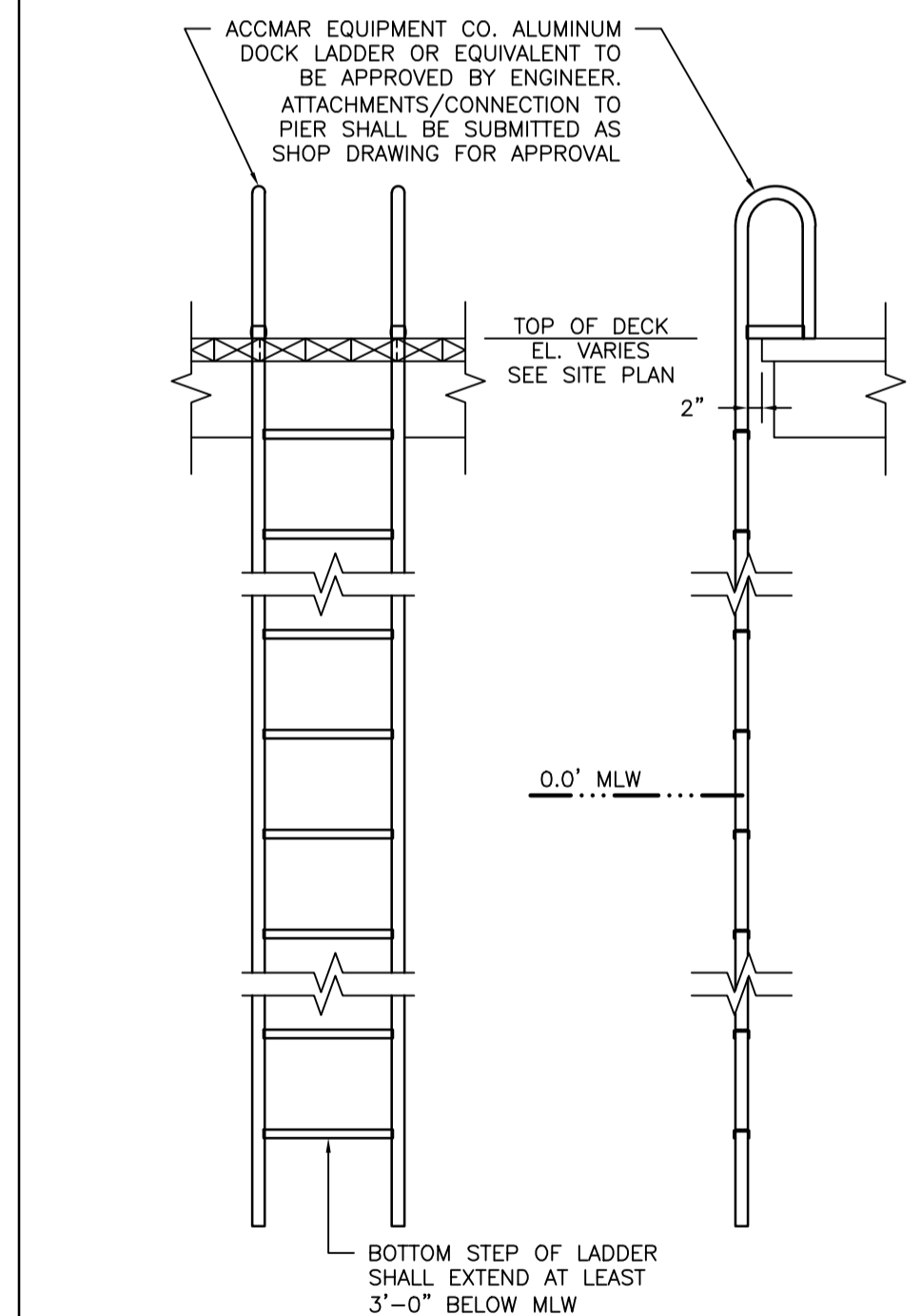
TYPICAL 6' FIXED PIER PLAN VIEW
SCALE: 1" = 2"



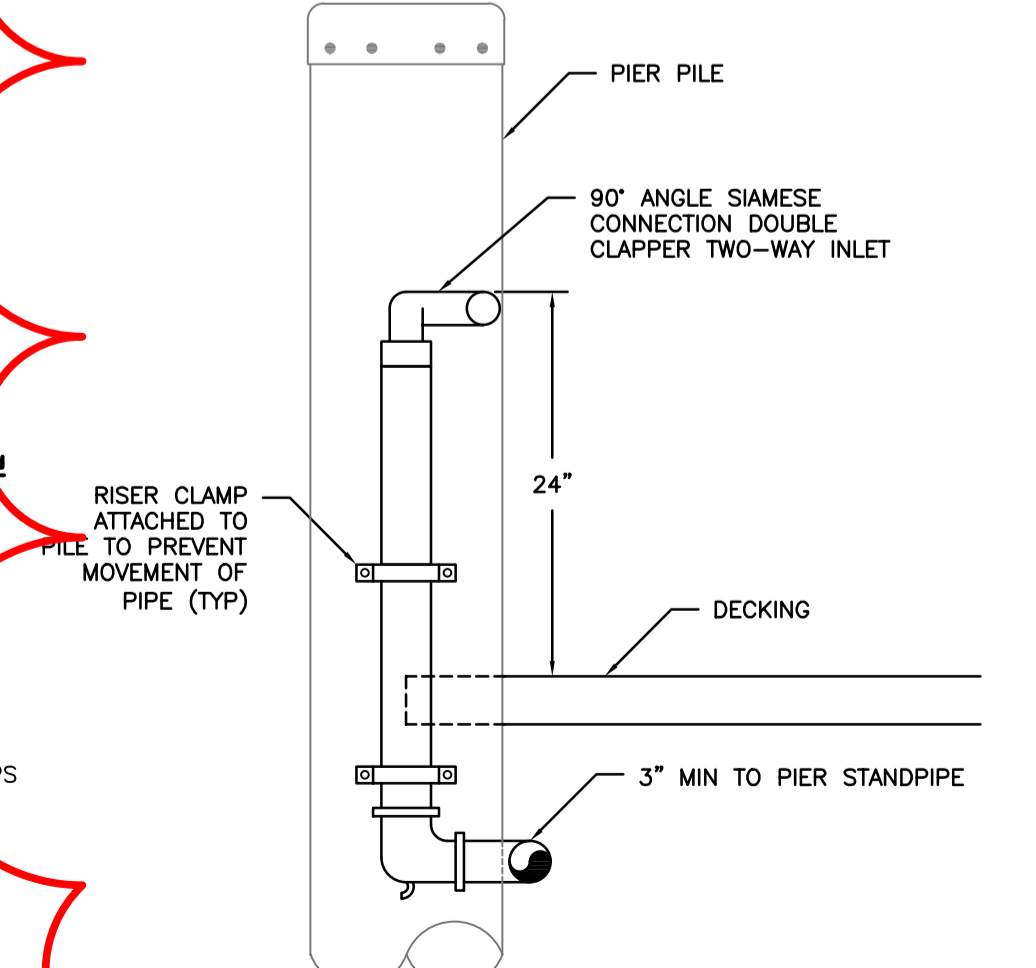
TYPICAL 10' FIXED PIER PLAN VIEW
SCALE: 1" = 2"



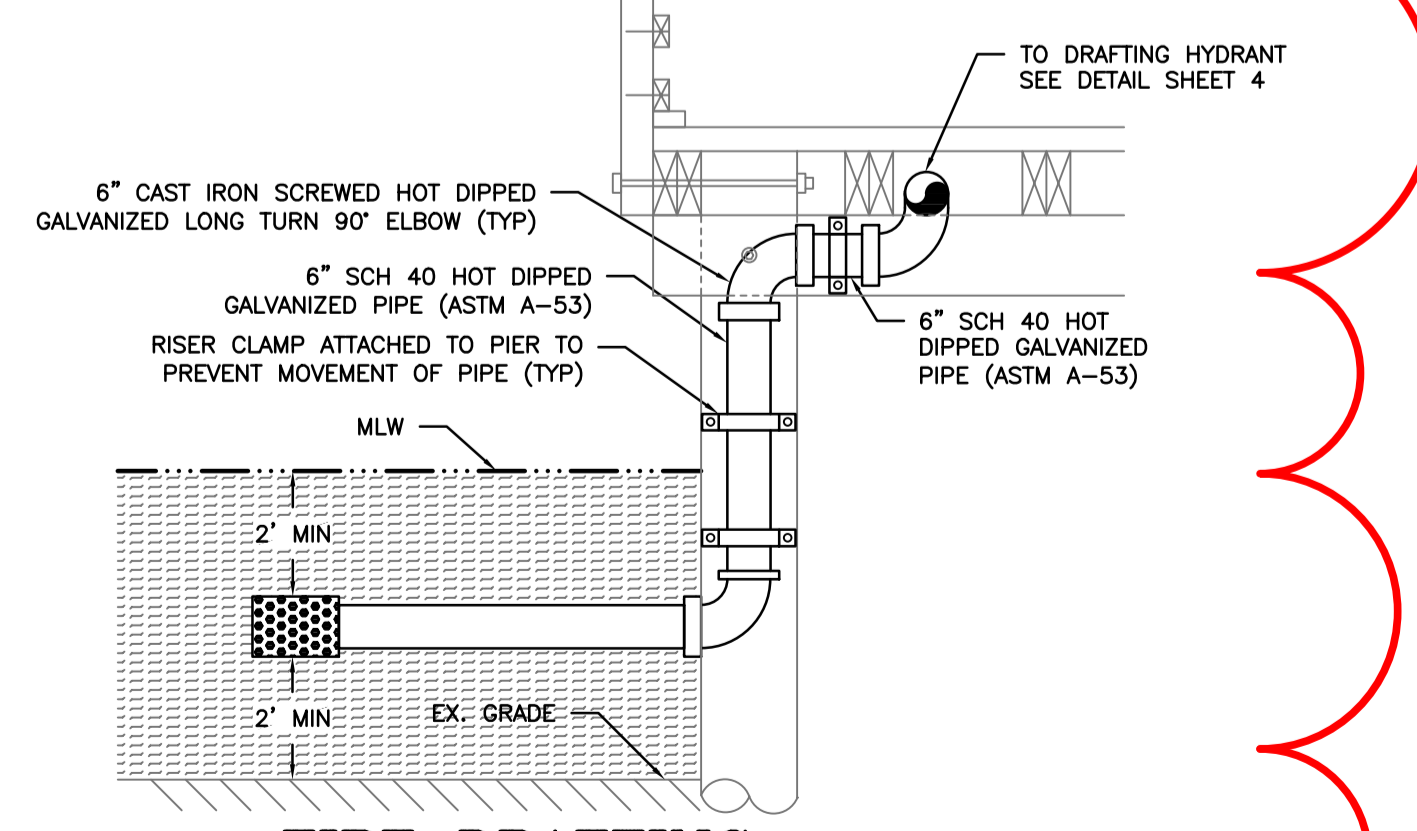
TYPICAL 6' FIXED KAYAK PIER PLAN VIEW
SCALE: 1" = 2"



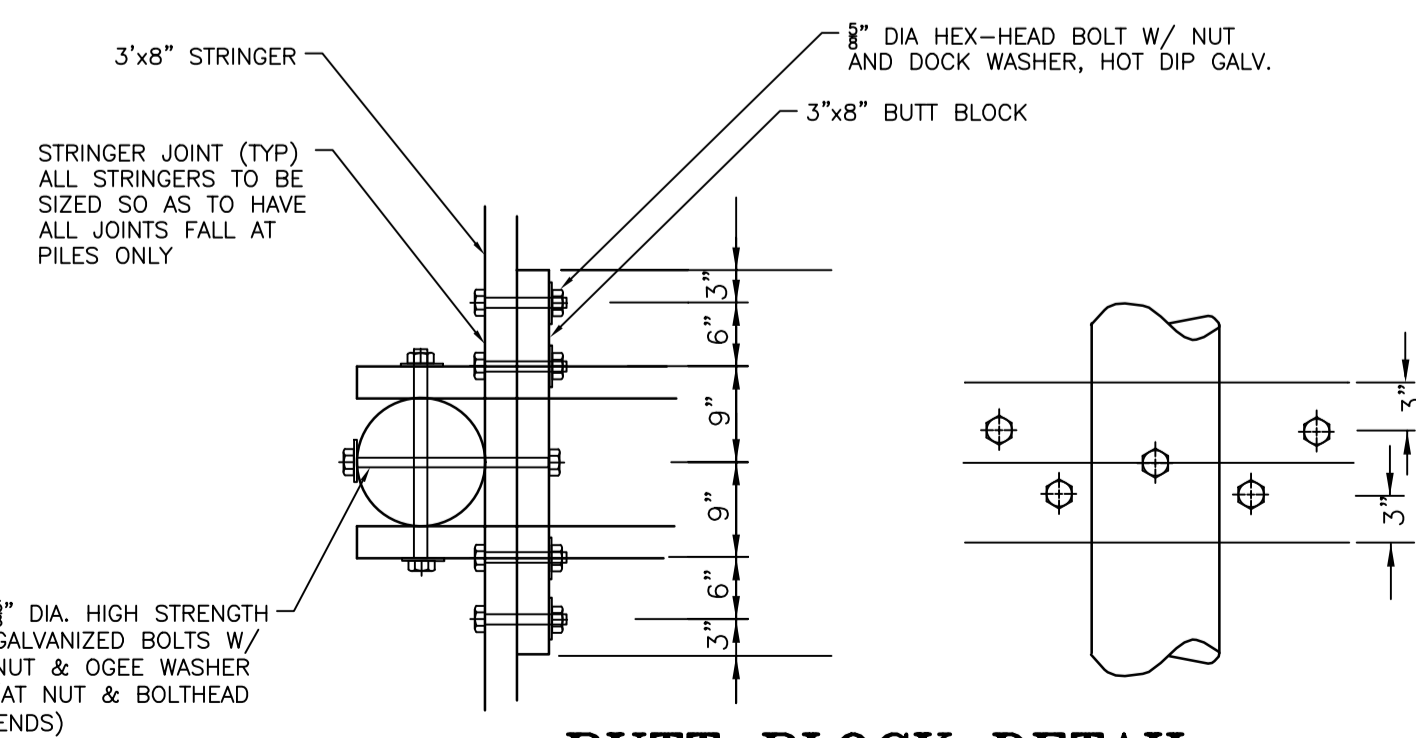
TYPICAL PIER LADDER DETAIL
SCALE: NTS



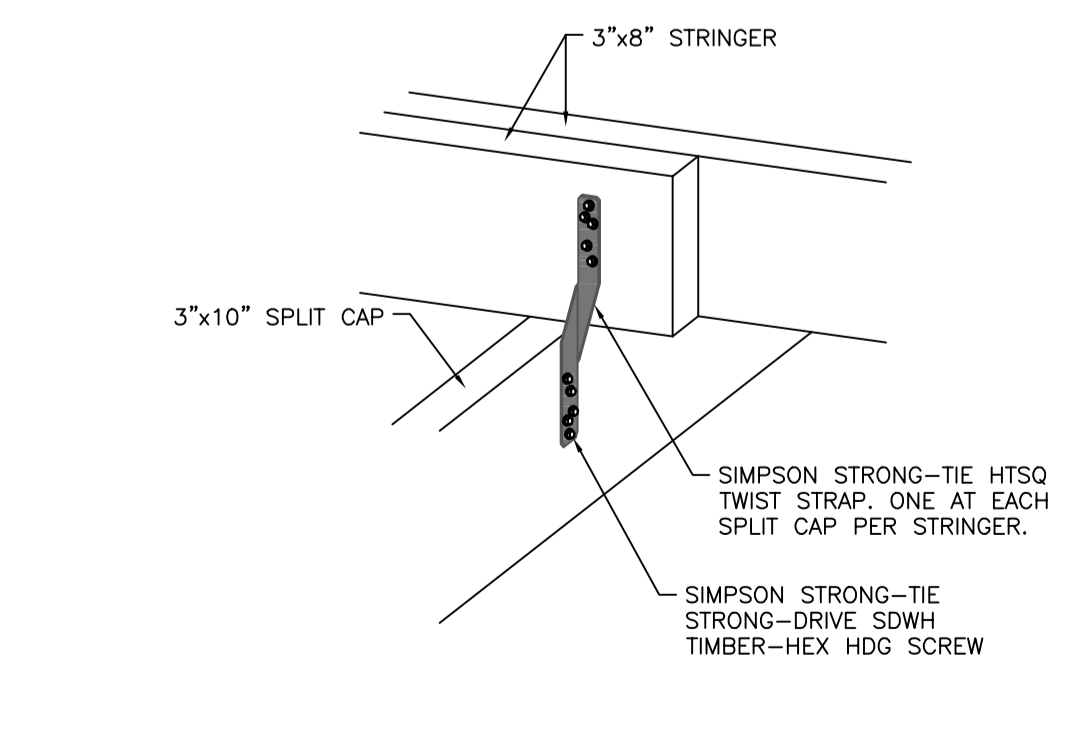
FIRE DEPARTMENT CONNECTION STAND PIPE DETAIL
SCALE: NOT TO SCALE



FIRE DRAFTING HYDRANT DETAIL
SCALE: NOT TO SCALE



BUTT BLOCK DETAIL
SCALE: NOT TO SCALE



TYPICAL PIER STRINGER LAP DETAIL
SCALE: NOT TO SCALE

Prince George's County, Maryland
Department of Permitting, Inspections and Enforcement
APPROVED PERMIT SET
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Application Number: 38025-2024-0000
Permit Number: P61687-2024-0000
Issuance Date: 06/26/24
Address:
Lot(s), Block(s) and Parcel(s):



P.G.C.
Structural
DPIE
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THE MARYLAND-NATIONAL CAPITAL PARK & PLANNING COMMISSION

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PRINCE GEORGE'S COUNTY
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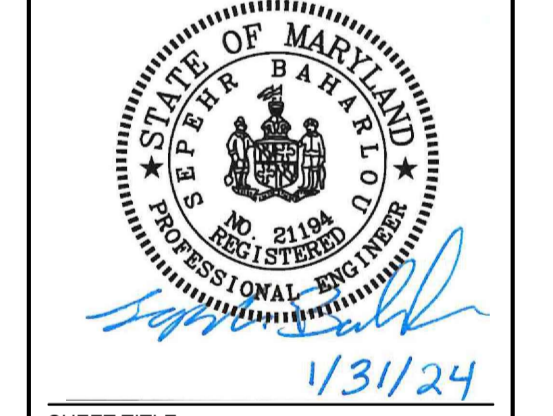
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DRAWN: MB/DG
PROJECT MANAGER: FRANCIS KANG

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1/31/24
SHEET TITLE

FIXED PIER DETAILS

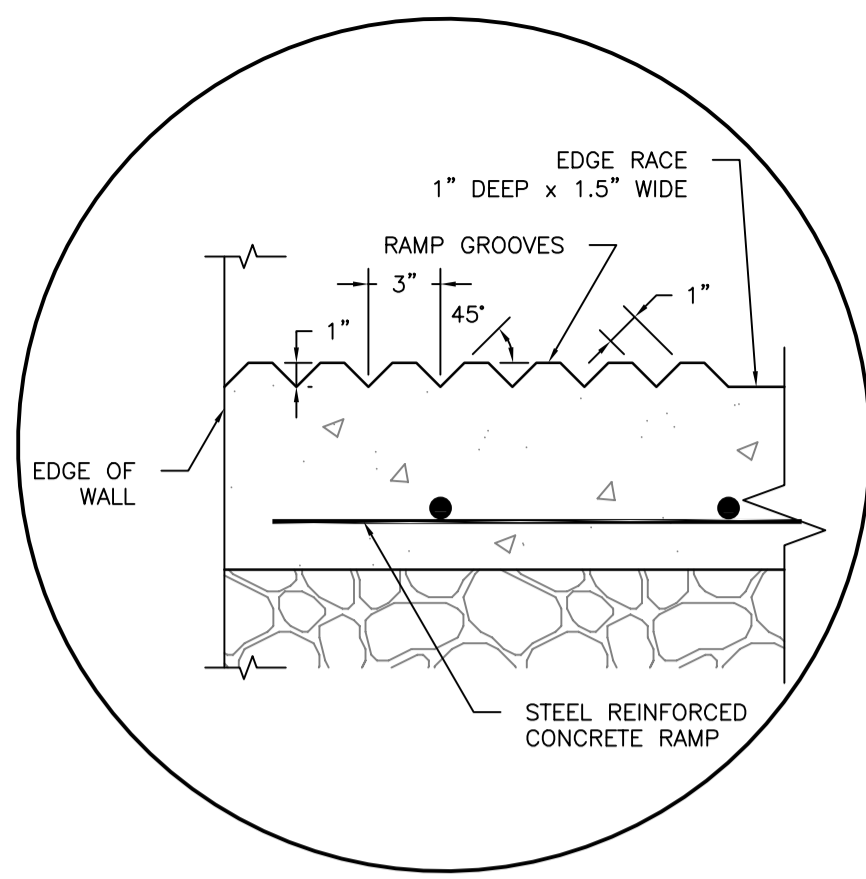
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DATE: 05/14/24
ISSUE: DATE

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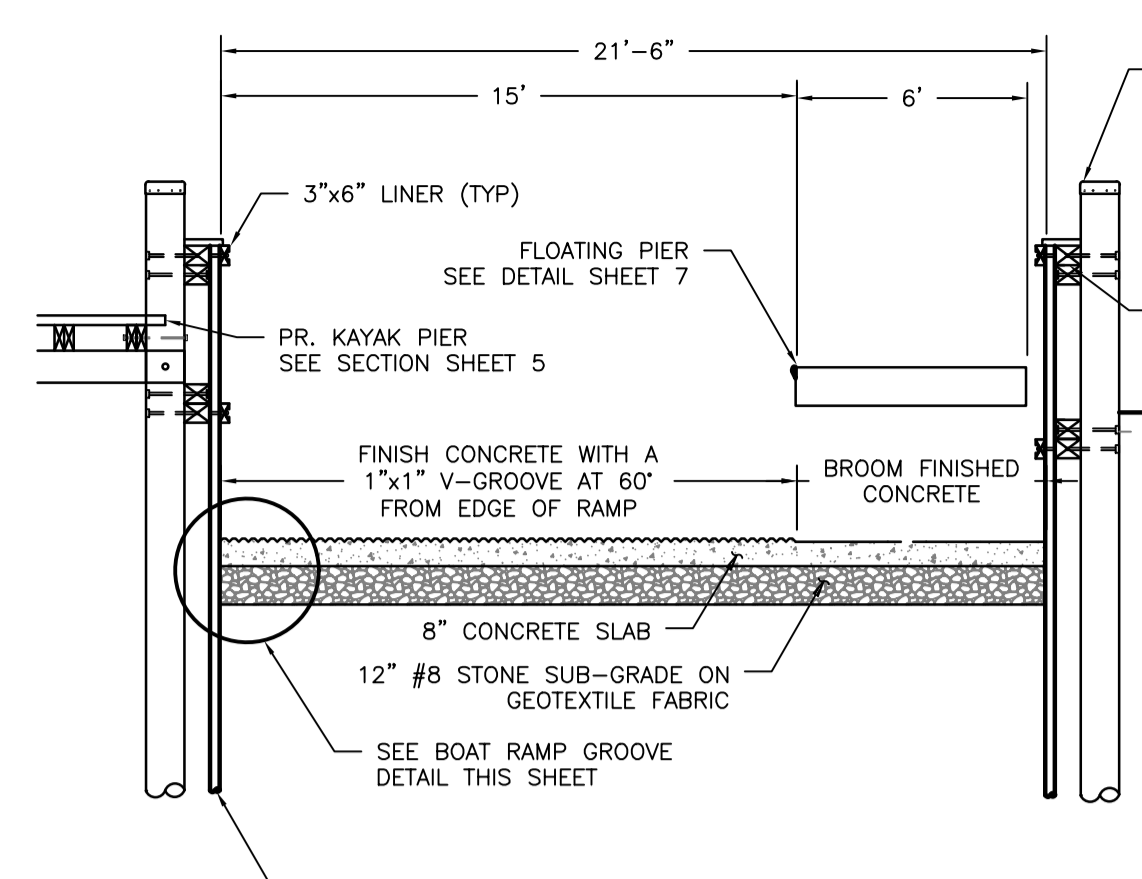
5 OF 9

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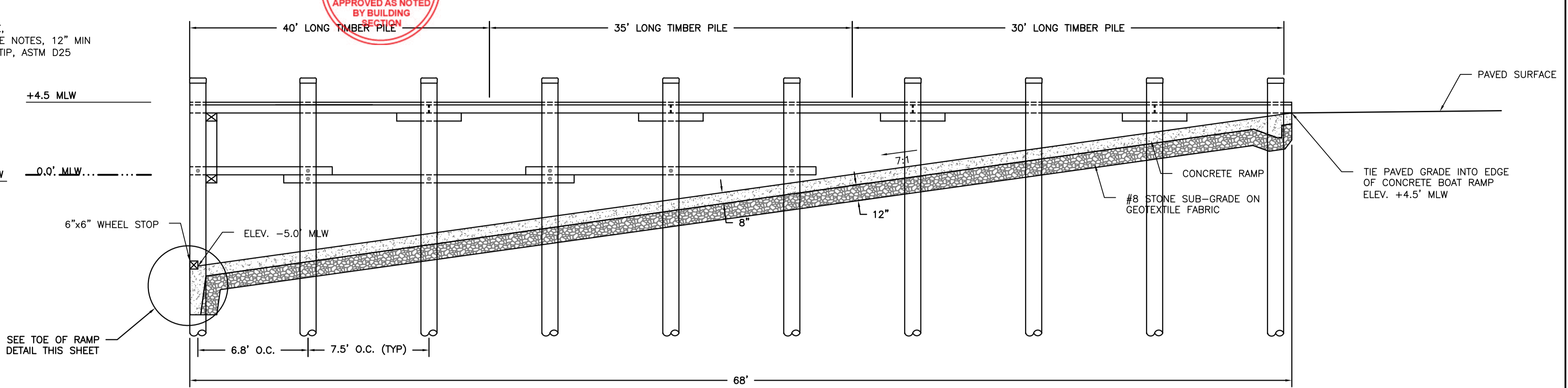
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Structural
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OFFICIAL



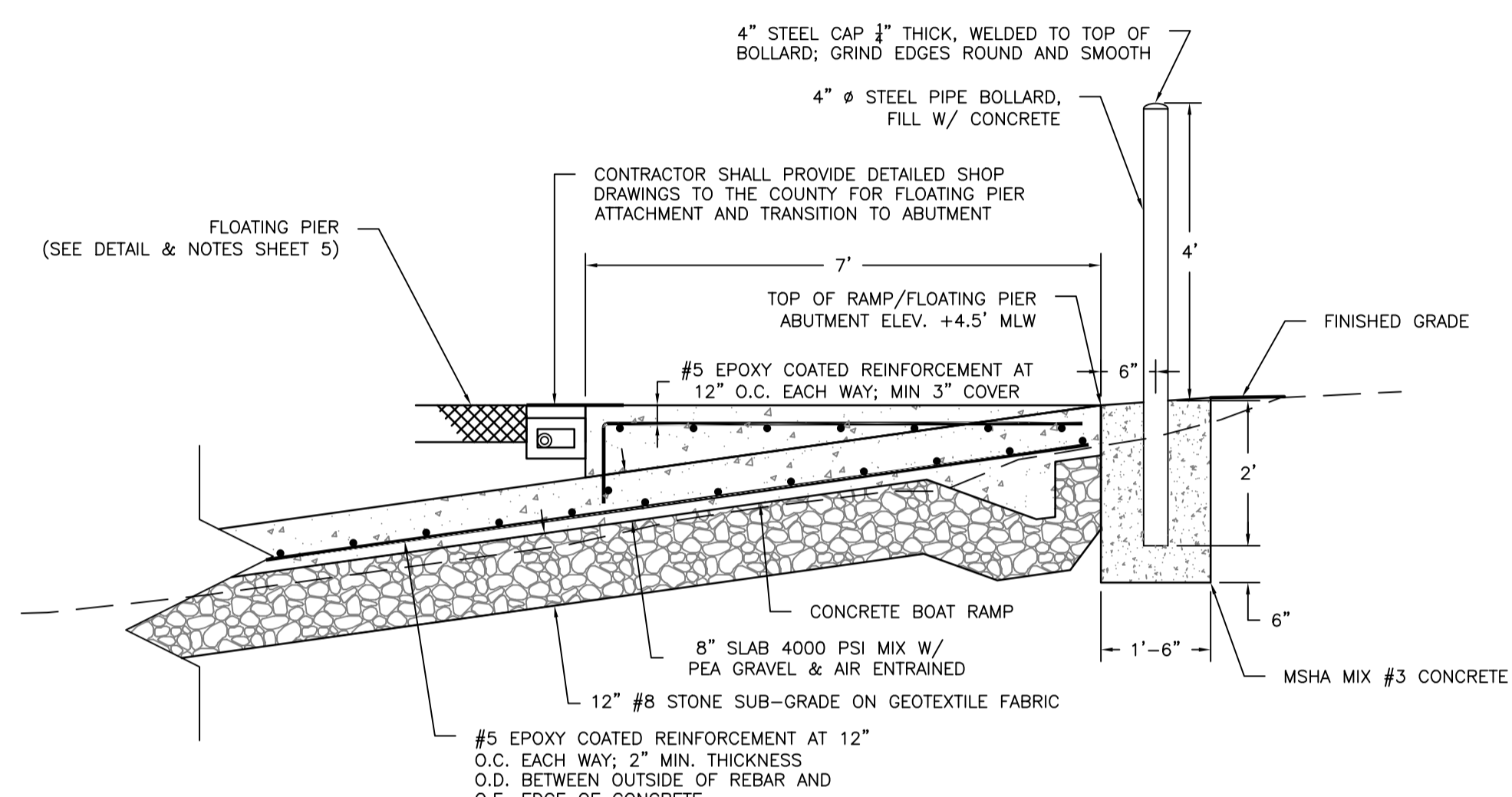
BOAT RAMP GROOVE DETAIL
SCALE: NOT TO SCALE



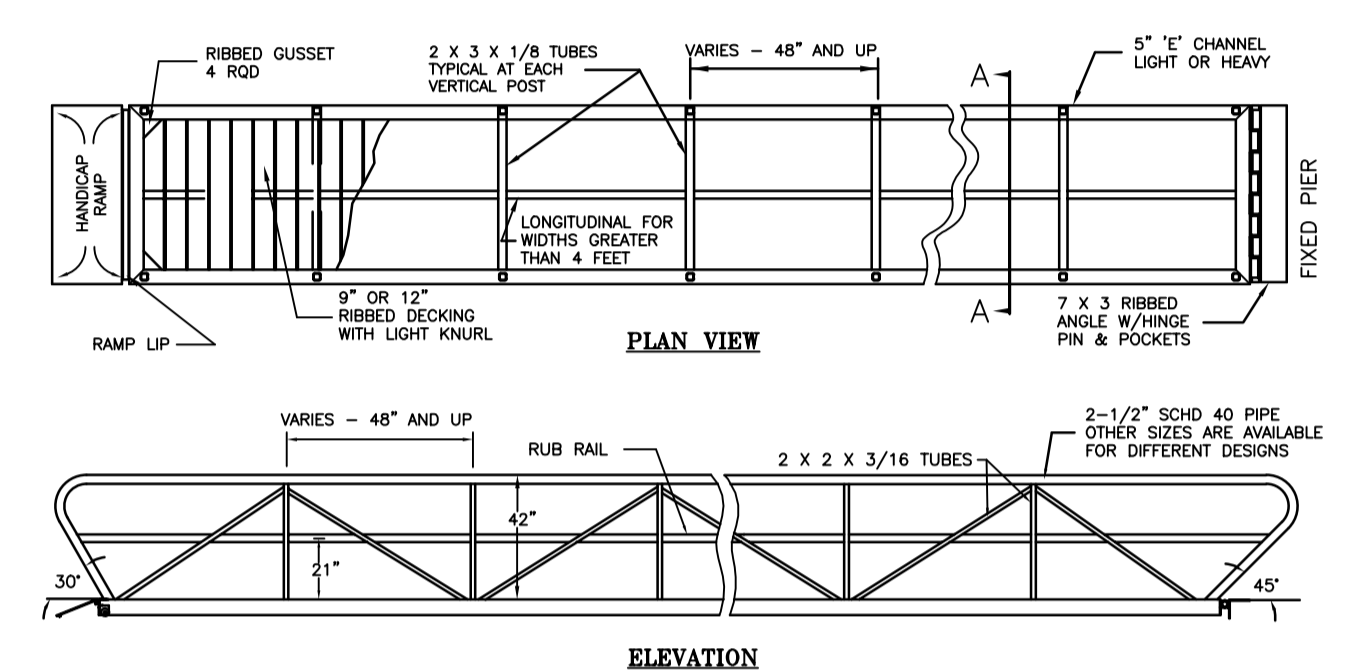
TYPICAL BOAT RAMP SECTION
SCALE: 1" = 5'



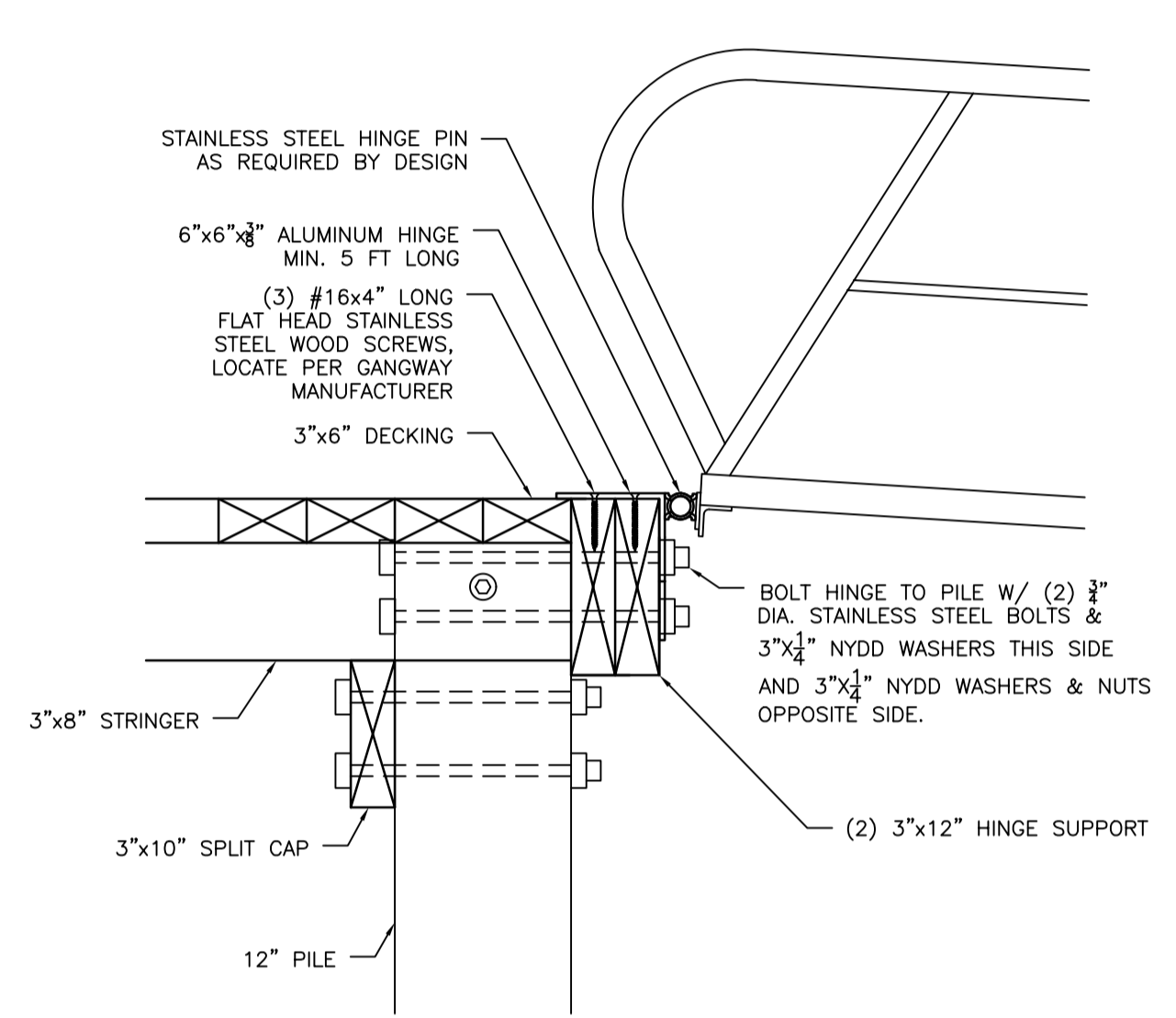
BOAT RAMP TYPICAL PROFILE
SCALE: 1" = 5'



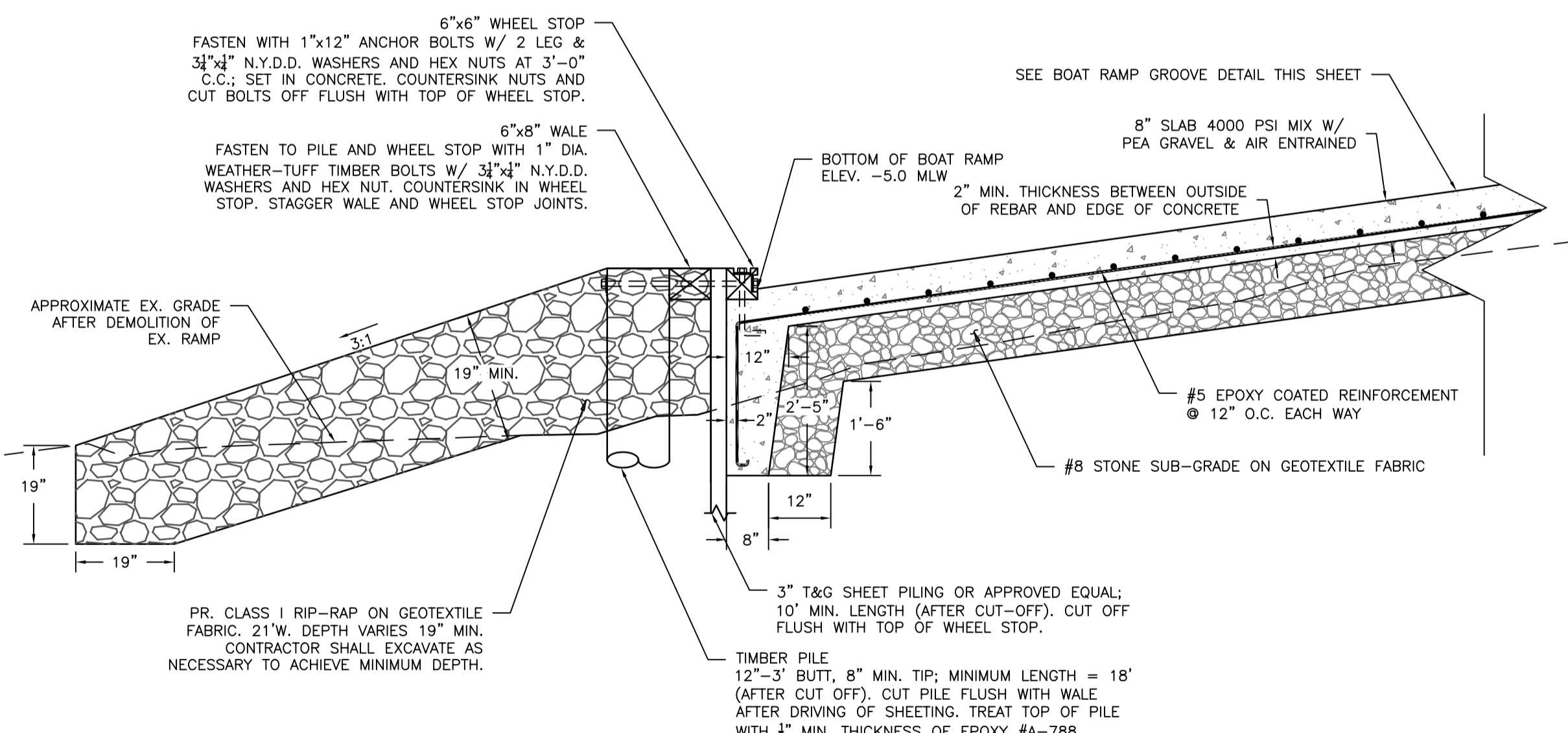
FLOATING PIER ABUTMENT & BOLLARD DETAIL
SCALE: 1" = 2'



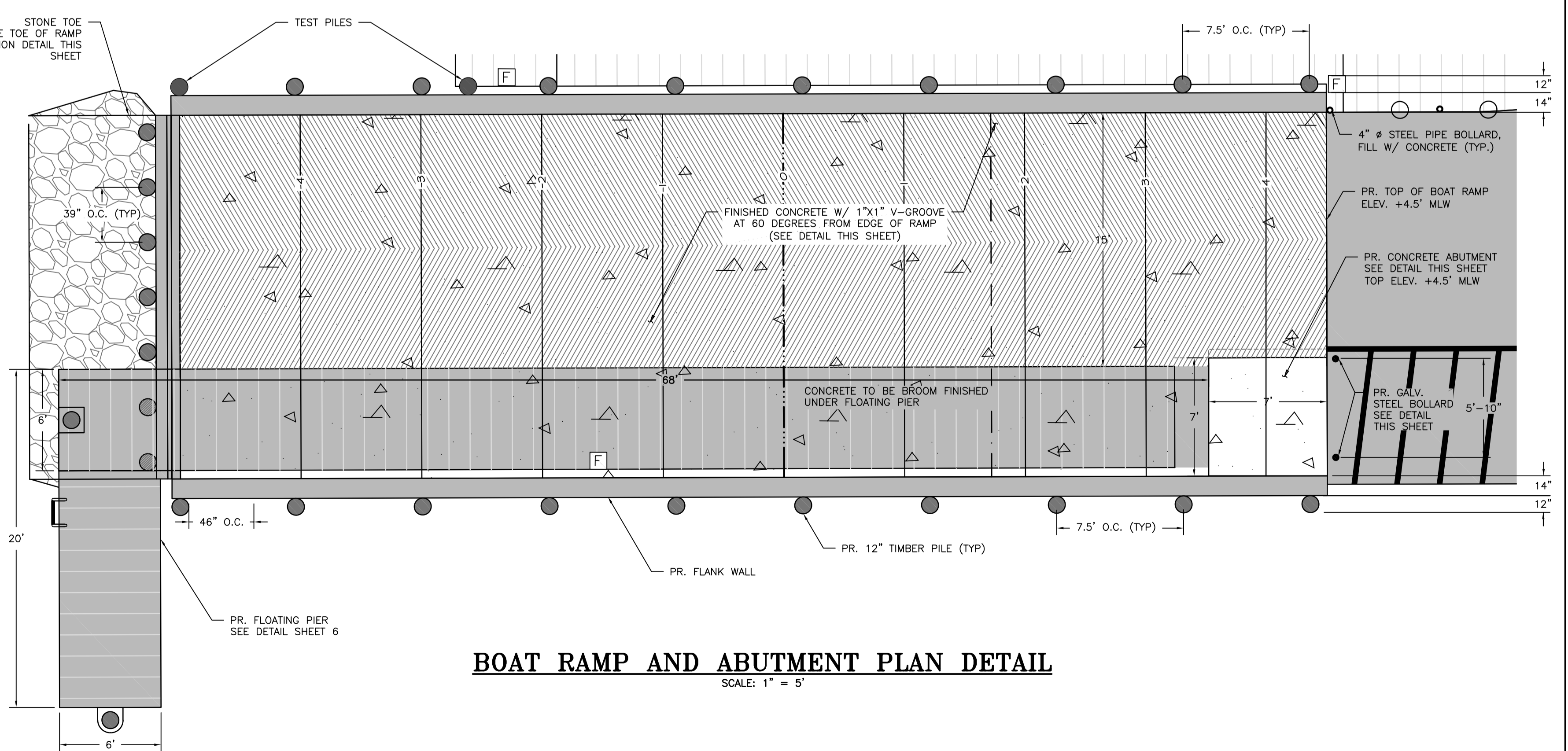
ALUMINUM GANGWAY DETAILS
SCALE: NOT TO SCALE



GANGWAY TO FIXED PIER ATTACHMENT DETAIL
SCALE: 1" = 1'



TOE OF RAMP SECTION DETAIL
SCALE: 1" = 2'



BOAT RAMP AND ABUTMENT PLAN DETAIL
SCALE: 1" = 5'

- NOTES:
- FOR THE BOLLARD, ALL EXPOSED METAL SURFACES SHALL BE SMOOTH AND FREE OF BURRS. COVER WITH YELLOW COVER MANUFACTURE BY IDEAL SHIELD OR AN APPROVED EQUIVALENT. ALL PIPE TO BE STANDARD WEIGHT AS PER AISC MANUAL.
 - ALL DIMENSIONAL LUMBER SHALL BE NO.1 SYP AND TREATED WITH:
 - STRUCTURAL LUMBER - 1.0 CCA, UNLESS SPECIFIED OTHERWISE.
 - CAPBOARD - 0.06 CA-C
 - TIMBER PILES SHALL BE 12" DIA. TYPE "B" AND TREATED W/ 2.5 CCA.
 - ALL EXPOSED HARDWARE SHALL BE COUNTERSUNK WITH EXCEPTION OF DOME HEADS BOLTS INSTALLED INTO THE LINERS.
 - APPROVED PERMIT SET
 - STEEL PILING SHALL BE DRIVEN TO A MINIMUM TIP ELEVATION OF -35.0', UNLESS OTHERWISE SPECIFIED, AND TO ACHIEVE A VERTICAL BEARING CAPACITY OF 10 TONS. MINIMUM. WALLS SHALL BE DRIVEN TO A MINIMUM TIP ELEVATION OF -25.0', UNLESS OTHERWISE SPECIFIED, AND TO ACHIEVE A VERTICAL BEARING CAPACITY OF 10 TONS. MINIMUM. TEST PILES SHALL BE DRIVEN AT THE LOCATIONS SHOWN ON THE PLAN VIEW PRIOR TO ORDERING PILES FOR THE PROJECT. THE VERTICAL BEARING CAPACITY SHALL BE DETERMINED BY THE PILE TEST RESULTS. THE PILE TEST RESULTS SHALL BE USED TO DETERMINE THE LENGTHS OF THE PILES FOR THE PROJECT THAT WILL ACHIEVE THE MINIMUM VERTICAL BEARING CAPACITY. THE CONTRACTOR SHALL FURNISH THE PILE TEST RESULTS TO MNCPPC, OR ITS AGENT, FOR REVIEW AND APPROVAL PRIOR TO ORDERING THE PILES FOR THE PROJECT.
 - PILES SHALL HAVE SUFFICIENT LENGTHS AND ADEQUATE BEARING AS DETERMINED BY THE TEST PILES. THE CONTRACTOR SHALL FURNISH THE OWNER AND/OR HIS AGENT WITH THE RECORD OF EACH DAY'S PILE DRIVING FOR REVIEW.
 - PILE LENGTHS SHOWN ARE FOR BIDDING PURPOSES ONLY. PILE LENGTHS SHALL BE DETERMINED BY TEST PILE RESULTS.
 - CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF PROPOSED PIER TO MNCPPC, OR ITS AGENT, FOR APPROVAL.
 - CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF PROPOSED PIER TO MNCPPC, OR ITS AGENT, FOR APPROVAL.
 - CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF PROPOSED PIER TO MNCPPC, OR ITS AGENT, FOR APPROVAL.

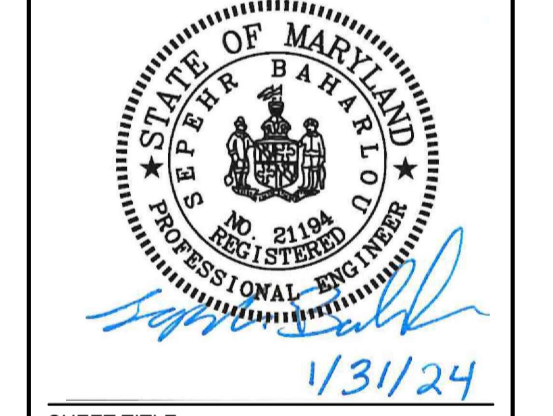
THE MARYLAND-NATIONAL CAPITAL PARK & PLANNING COMMISSION
DEPARTMENT OF PARKS & RECREATION
PRINCE GEORGE'S COUNTY
6600 KENILWORTH AVENUE
RIVERDALE, MARYLAND 20737
301-699-2481

PATUXENT RIVER PARK
JACKSON'S LANDING
PARK # R91
16000 CROOM AIRPORT RD
UPPER MARLBORO MD
20772

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Bryce
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"Integrating Engineering and Environment"
1491 New Ridge Road, Suite 101
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Fax: (410) 464-9400
www.brycedesign.com

DESIGN: MB/AJ
DRAWN: MB/DG
PROJECT MANAGER: FRANCIS KANG

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 21184. EXPIRATION DATE: 04/20/2024.



SHEET TITLE
BOAT RAMP & GANGWAY DETAILS

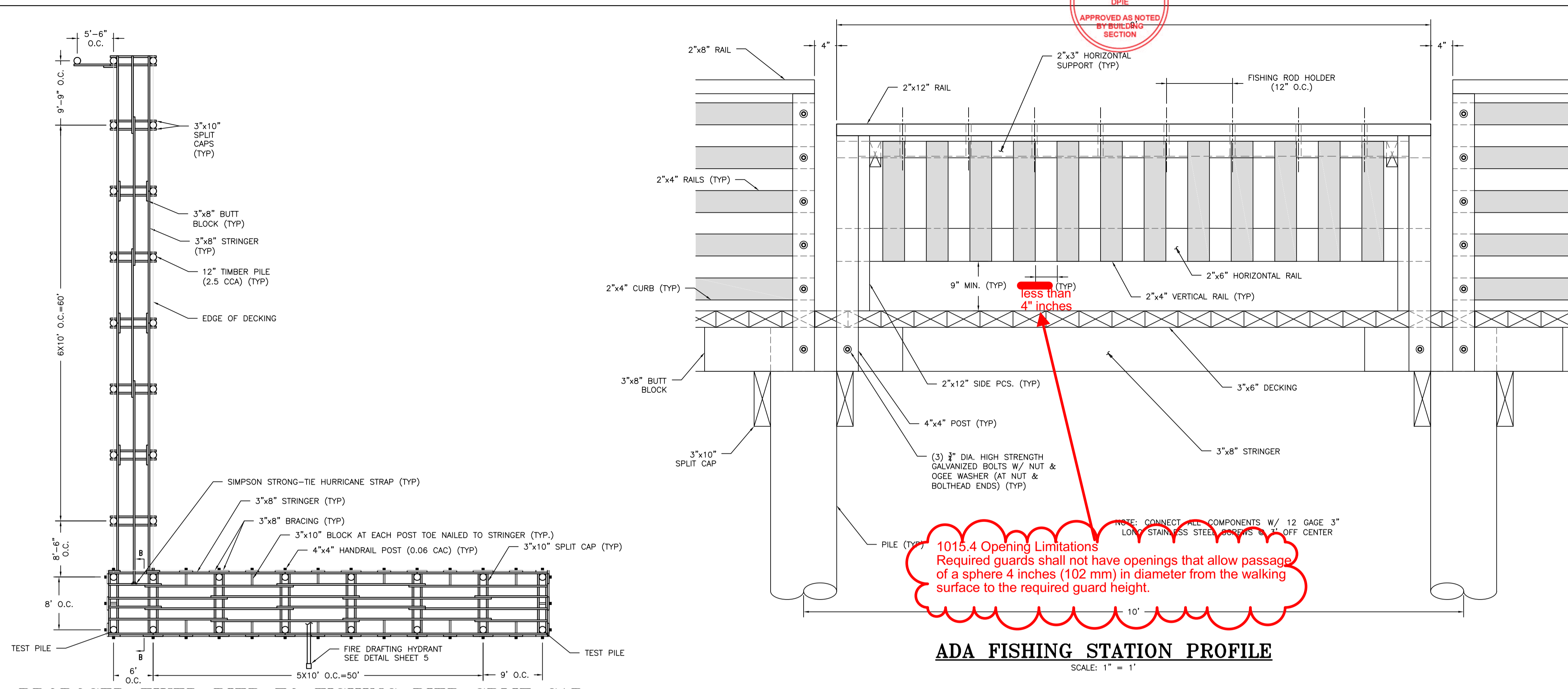
BID NO.
DATE: 05/14/24
ISSUE: DATE

SHEET NO.
6 OF 9

Department of Permits, Inspections and Enforcement
APPROVED PERMIT SET
The Department of Permits, Inspections and Enforcement has reviewed the permit application and all required information has been provided. The permit is hereby approved for the period shown on the permit. The permit holder must comply with all conditions of the permit and all applicable laws and regulations. The permit holder must provide a record copy of these documents with their original seal, signature and date.
Case Name: MNCPPC Department of Parks and Recreation
Application Number: 2024-001-01
Permit Number: 2024-001-01
Issuance Date: 05/14/24
Address: 16000 Croom Airport Rd, Upper Marlboro, MD 20772

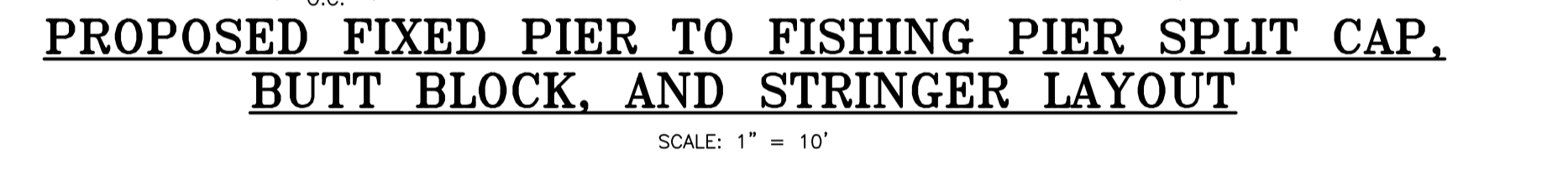


P.G.C.
Structural
DPIE
APPROVED AS NOTED
BY STRUCTURAL
SECTION

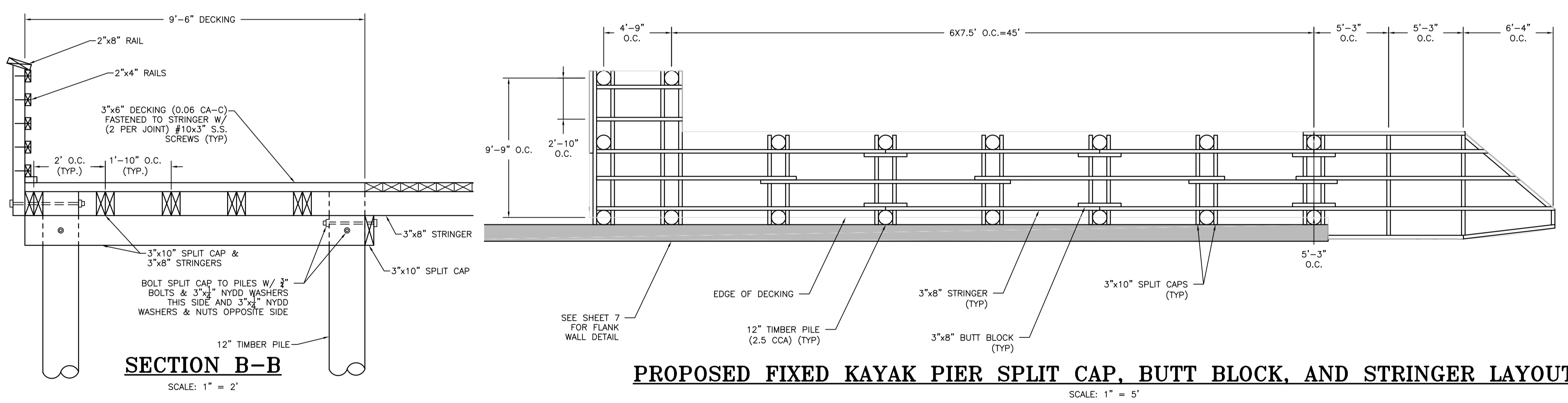


1015.4 Opening Limitations
Required guards shall not have openings that allow passage of a sphere 4 inches (102 mm) in diameter from the walking surface to the required guard height.

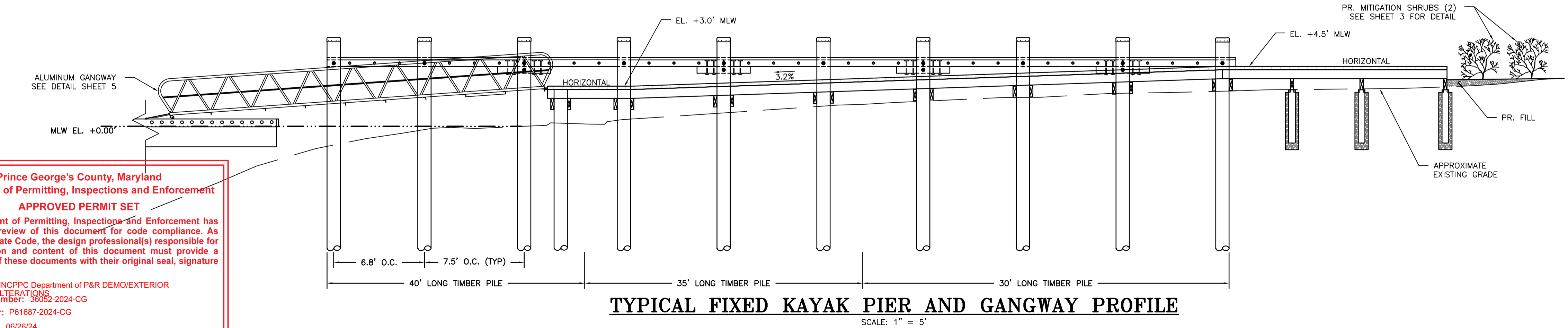
ADA FISHING STATION PROFILE
SCALE: 1" = 1'



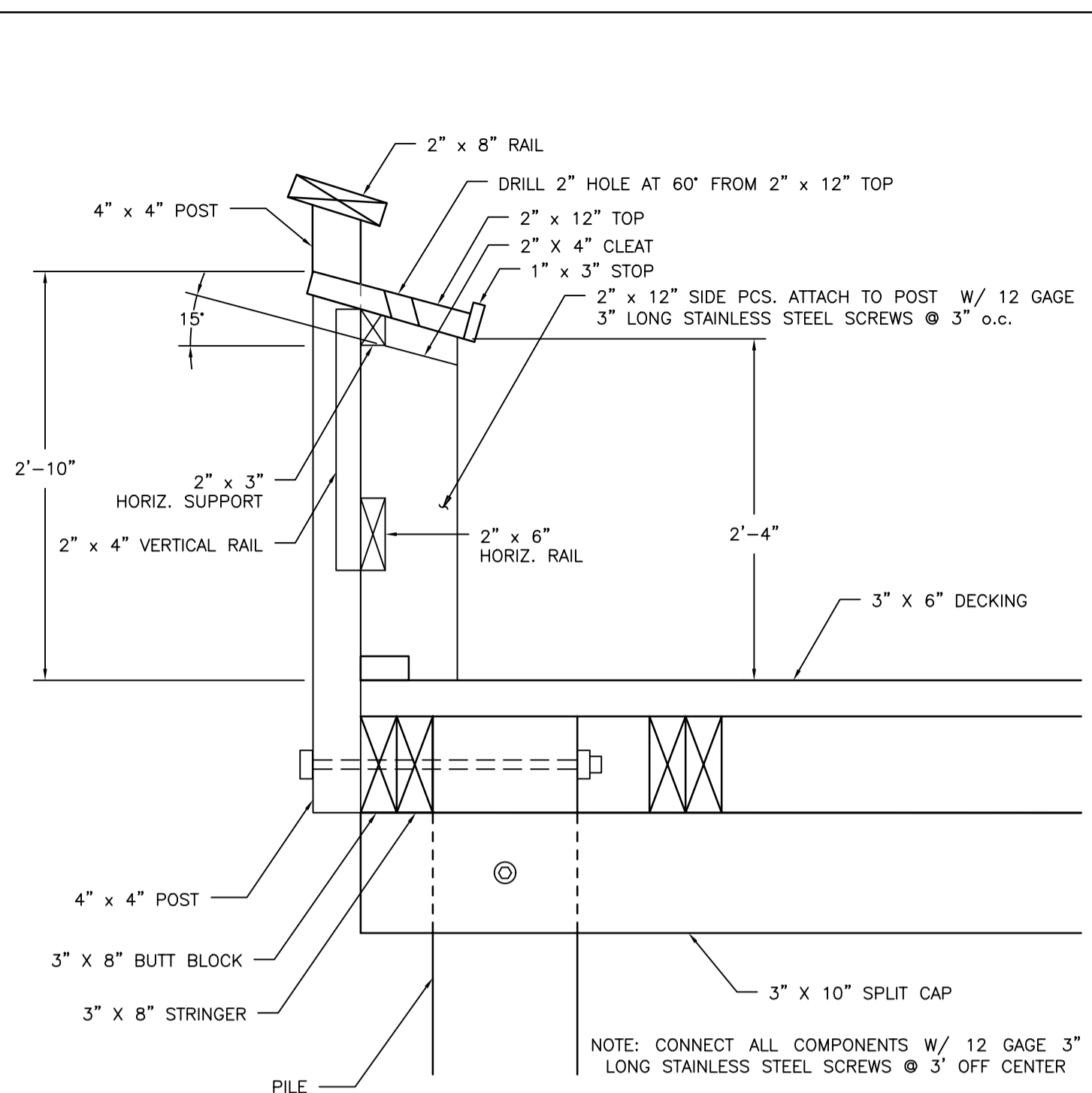
PROPOSED FIXED PIER TO FISHING PIER SPLIT CAP, BUTT BLOCK, AND STRINGER LAYOUT
SCALE: 1" = 10'



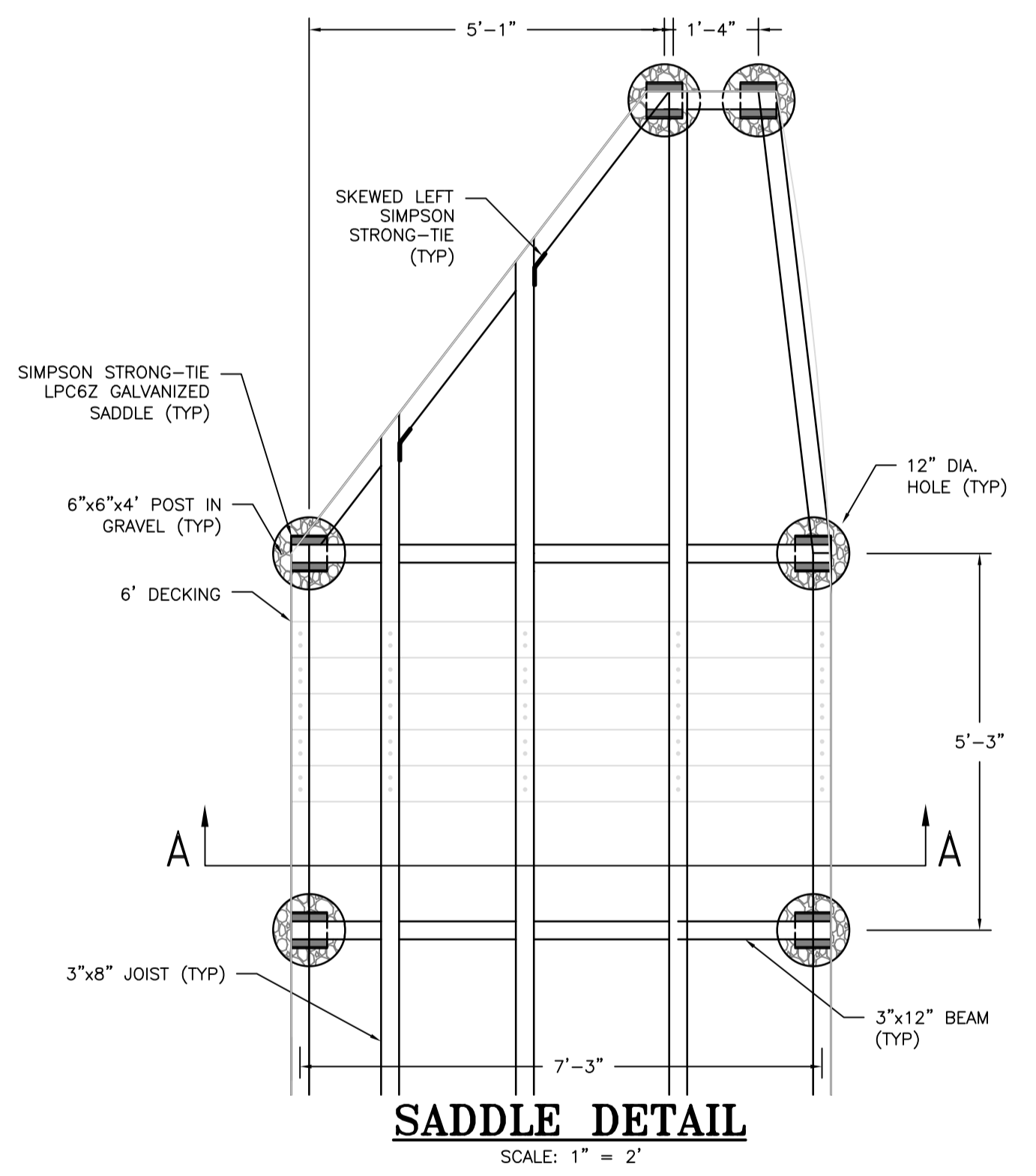
PROPOSED FIXED KAYAK PIER SPLIT CAP, BUTT BLOCK, AND STRINGER LAYOUT
SCALE: 1" = 5'



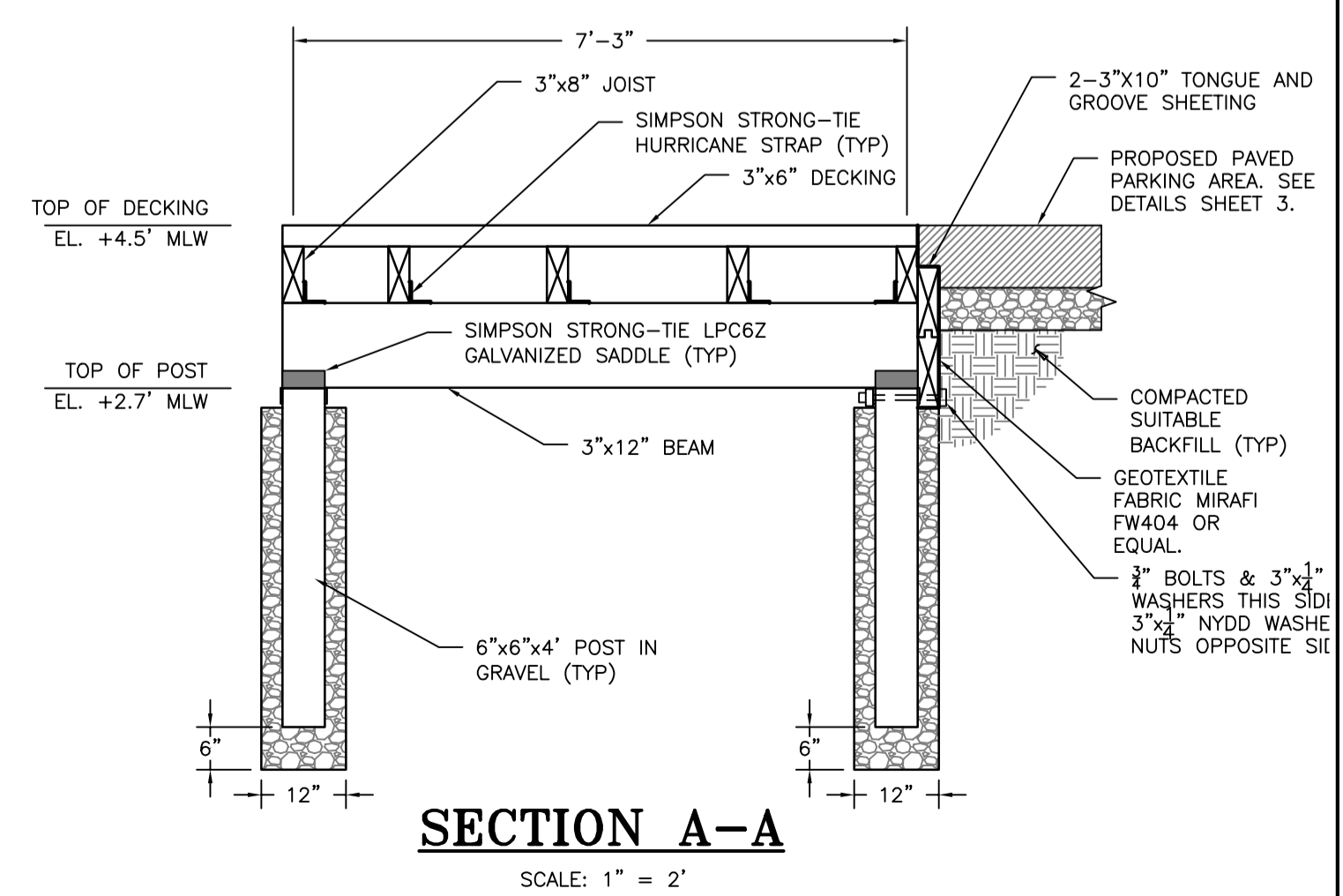
TYPICAL FIXED KAYAK PIER AND GANGWAY PROFILE
SCALE: 1" = 5'



ADA FISHING STATION ELEVATION
SCALE: 1" = 1'



SADDLE DETAIL
SCALE: 1" = 2'



SECTION A-A
SCALE: 1" = 2'

THE MARYLAND-NATIONAL PARK & PLANNING COMMISSION

DEPARTMENT OF PARKS & RECREATION
PRINCE GEORGE'S COUNTY
6600 KENILWORTH AVENUE
RIVERDALE, MARYLAND 20737
301-699-2481

PATUXENT RIVER PARK

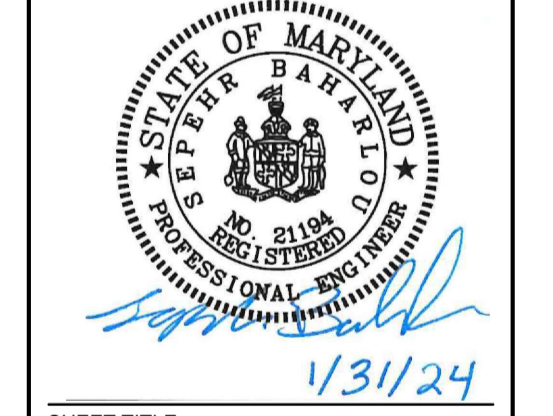
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DESIGN: MB/AJ
DRAWN: MB/DG
PROJECT MANAGER: FRANCIS KANG

PROFESSIONAL CERTIFICATION
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SHEET TITLE
PIER PLAN, PROFILE, & DETAILS

BID NO.
DATE: 05/14/24
ISSUE: DATE

SHEET NO.

Prince George's County, Maryland
Department of Permitting, Inspections and Enforcement
APPROVED PERMIT SET
The Department of Permitting, Inspections and Enforcement has completed a review of this document for code compliance. As required by State Code, the design professional(s) responsible for the preparation and content of this document must provide a record copy of these documents with their original seal, signature and date.
Case Name: MNCPPC Department of P&R DEMO/EXTERIOR ALTERATIONS
Application Number: 2024-CG-38652-2024-CG
Permit Number: P61687-2024-CG
Issuance Date: 06/26/24
Address:
Lot(s), Block(s) and Parcel(s):





STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS

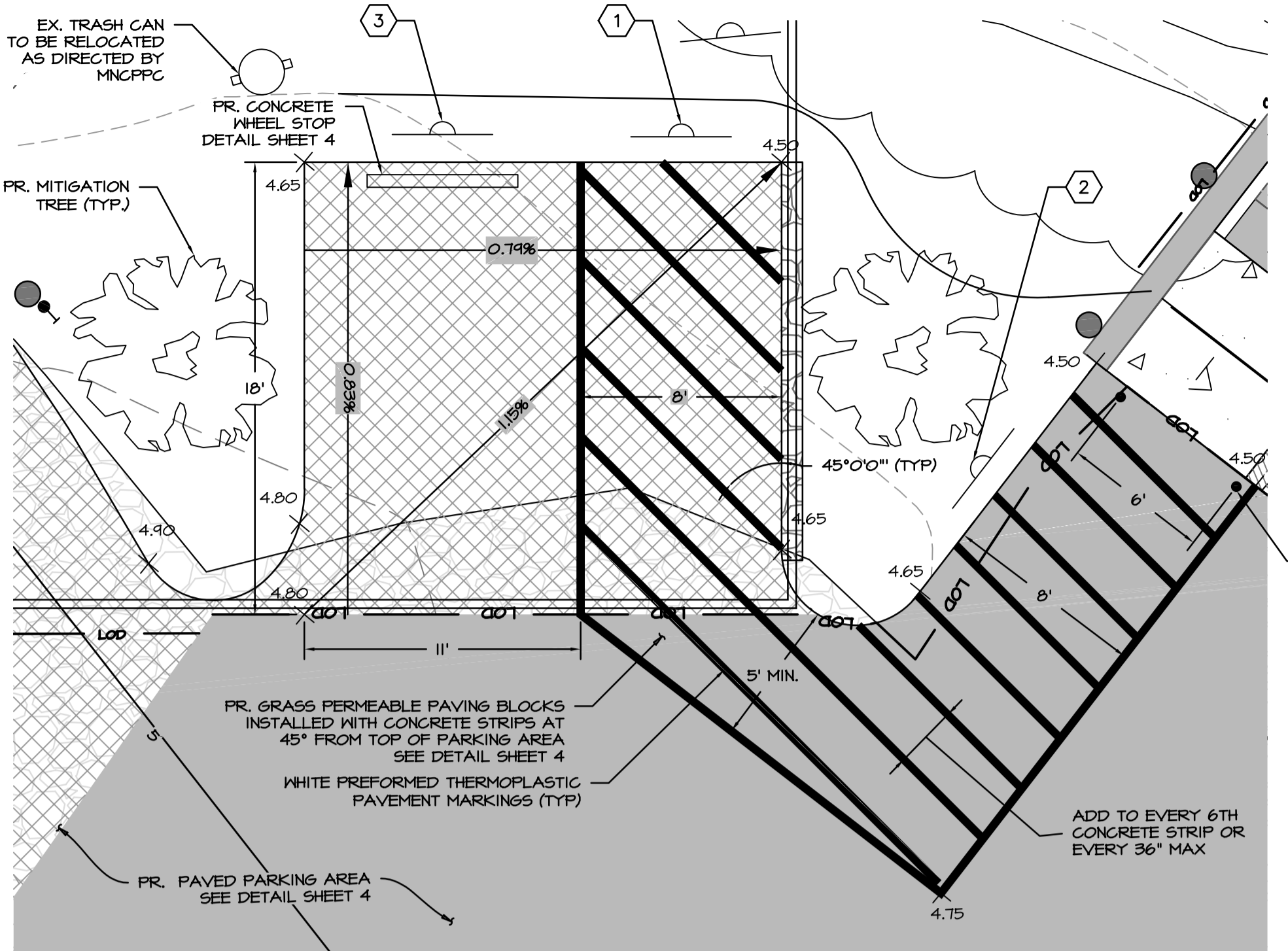
- TEMPORARY STABILIZATION**
 - SEEDBED PREPARATION CONSISTS OF LOOSENING SOIL TO A DEPTH OF 3 TO 5 INCHES BY MEANS OF SUITABLE AGRICULTURAL OR CONSTRUCTION EQUIPMENT, SUCH AS DISC HARROWS OR CHISEL FLOWS OR RIPPERS MOUNTED ON CONSTRUCTION EQUIPMENT. AFTER THE SOIL IS LOOSENED, IT MUST NOT BE ROLLED OR DRAGGED SMOOTH BUT LEFT IN THE ROUGHENED CONDITION. SLOPES 3:1 OR FLATTER ARE TO BE TRACKED WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE.
 - APPLY FERTILIZER AND LIME AS PRESCRIBED ON THE PLANS.
 - INCORPORATE LIME AND FERTILIZER INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS.
- PERMANENT STABILIZATION**
 - A SOIL TEST IS REQUIRED FOR ANY EARTH DISTURBANCE OF 5 ACRES OR MORE. THE MINIMUM SOIL CONDITIONS REQUIRED FOR PERMANENT VEGETATIVE ESTABLISHMENT ARE:
 - SOIL PH BETWEEN 6.0 AND 7.0.
 - SOLUBLE SALTS LESS THAN 500 PARTS PER MILLION (PPM).
 - SOIL CONTAINS LESS THAN 40 PERCENT CLAY BUT ENOUGH FINE GRAINED MATERIAL (GREATER THAN 30 PERCENT SILT PLUS CLAY) TO PROVIDE THE CAPACITY TO HOLD A MODERATE AMOUNT OF MOISTURE. AN EXCEPTION: IF LOVEGRASS WILL BE PLANTED, THEN A SANDY SOIL (LESS THAN 30 PERCENT SILT PLUS CLAY) WOULD BE ACCEPTABLE.
 - SOIL CONTAINS 1.5 PERCENT MINIMUM ORGANIC MATTER BY WEIGHT.
 - SOIL CONTAINS SUFFICIENT PORE SPACE TO PERMIT ADEQUATE ROOT PENETRATION.
 - APPLICATION OF AMENDMENTS OR TOPSOIL IS REQUIRED IF ON-SITE SOILS DO NOT MEET THE ABOVE CONDITIONS.
 - GRADED AREAS MUST BE MAINTAINED IN A TRUE AND EVEN GRADE AS SPECIFIED ON THE APPROVED PLAN, THEN SCARIFIED OR OTHERWISE LOOSENED TO A DEPTH OF 3 TO 5 INCHES.
 - APPLY SOIL AMENDMENTS AS SPECIFIED ON THE APPROVED PLAN OR AS INDICATED BY THE RESULTS OF A SOIL TEST.
 - MIX SOIL AMENDMENTS INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS. RAKE LAWN AREAS TO SMOOTH THE SURFACE, REMOVE LARGE OBJECTS LIKE STONES AND BRANCHES, AND READY THE AREA FOR SEED APPLICATION. LOOSEN SURFACE SOIL BY DRAGGING WITH A HEAVY CHAIN OR OTHER EQUIPMENT TO ROUGHEN THE SURFACE WHERE SITE CONDITIONS WILL NOT PERMIT NORMAL SEEDBED PREPARATION. TRACK SLOPES 3:1 OR FLATTER WITH TRACKED EQUIPMENT LEAVING THE SOIL IN AN IRREGULAR CONDITION WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE. LEAVE THE TOP 1 TO 3 INCHES OF SOIL LOOSE AND FRIABLE. SEEDBED LOOSENING MAY BE UNNECESSARY ON NEWLY DISTURBED AREAS.

- TOPSOILING**
 - TOPSOIL IS PLACED OVER PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION. THE PURPOSE IS TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.
 - TOPSOIL SALVAGED FROM AN EXISTING SITE MAY BE USED PROVIDED IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-NRCS.
 - TOPSOILING IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:
 - THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.
 - THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.
 - THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.
 - THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.
 - AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN.
 - TOPSOIL SPECIFICATIONS: SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING CRITERIA:
 - TOPSOIL MUST BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, OR LOAMY SAND. OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. TOPSOIL MUST NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND MUST CONTAIN LESS THAN 5 PERCENT VOL% OF CONDERS, STONES, SLUG COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1 1/2 INCHES IN DIAMETER.
 - TOPSOIL MUST BE FREE OF NOXIOUS PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACK GRASS, JOHNSON GRASS, NUT SEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.
 - TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF NATURAL TOPSOIL.

- EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED WHEN APPLYING TOPSOIL.**
 - UNIFORMLY DISTRIBUTE TOPSOIL IN A 5 TO 8 INCH LAYER AND LIGHTLY COMPACT TO A MINIMUM THICKNESS OF 4 INCHES. SPREADING IS TO BE PERFORMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS MUST BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.
 - TOPSOIL MUST NOT BE PLACED IF THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION. WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.
- SOIL AMENDMENTS (FERTILIZER AND LIME SPECIFICATIONS)**
 - SOIL TESTS MUST BE PERFORMED TO DETERMINE THE EXACT RATIOS AND APPLICATION RATES FOR BOTH LIME AND FERTILIZER ON SITES HAVING DISTURBED AREAS OF 5 ACRES OR MORE. SOIL ANALYSIS MAY BE PERFORMED BY A RECOGNIZED PRIVATE OR COMMERCIAL LABORATORY. SOIL SAMPLES TAKEN FOR ENGINEERING PURPOSES MAY ALSO BE USED FOR CHEMICAL ANALYSES.
 - FERTILIZERS MUST BE UNIFORM IN COMPOSITION, FREE FLOWING AND SUITABLE FOR ACCURATE APPLICATION BY APPROPRIATE EQUIPMENT. MANURE MAY BE SUBSTITUTED FOR FERTILIZER WITH PRIOR APPROVAL FROM THE APPROPRIATE APPROVAL AUTHORITY. FERTILIZERS MUST ALL BE DELIVERED TO THE SITE FULLY LABELED ACCORDING TO THE APPLICABLE LAWS AND MUST BEAR THE NAME, TRADE NAME OR TRADEMARK AND WARRANTY OF THE PRODUCER.
 - LIME MATERIALS MUST BE GROUND LIMESTONE (HYDRATED OR BURNED LIME MAY BE SUBSTITUTED EXCEPT WHEN HYDROSEEDING) WHICH CONTAINS AT LEAST 50 PERCENT TOTAL OXIDES (CALCIUM OXIDE PLUS MAGNESIUM OXIDE). LIMESTONE MUST BE GROUND TO SUCH FINENESS THAT AT LEAST 50 PERCENT WILL PASS THROUGH A #100 MESH SIEVE AND 98 TO 100 PERCENT WILL PASS THROUGH A #20 MESH SIEVE.
 - LIME AND FERTILIZER ARE TO BE EVENLY DISTRIBUTED AND INCORPORATED INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS.
 - WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, SPREAD GROUND LIMESTONE AT THE RATE OF 4 TO 8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL.

STANDARDS AND SPECIFICATIONS FOR SEEDING AND MULCHING

- SEEDING**
 - SPECIFICATIONS**
 - ALL SEED MUST MEET THE REQUIREMENTS OF THE MARYLAND STATE SEED LAW. ALL SEED MUST BE SUBJECT TO RE-TESTING BY A RECOGNIZED SEED LABORATORY. ALL SEED USED MUST HAVE BEEN TESTED WITHIN THE 6 MONTHS IMMEDIATELY PRECEDING THE DATE OF SOWING SUCH MATERIAL ON ANY PROJECT. REFER TO TABLE B.4 REGARDING THE QUALITY OF SEED. SEED TAGS MUST BE AVAILABLE UPON REQUEST TO THE INSPECTOR TO VERIFY TYPE OF SEED AND SEEDING RATE.
 - MULCH ALONE MAY BE APPLIED BETWEEN THE FALL AND SPRING SEEDING DATES ONLY IF THE GROUND IS FROZEN. THE APPROPRIATE SEEDING MIXTURE MUST BE APPLIED WHEN THE GROUND THAWS.
 - INOCULANTS: THE INOCULANT FOR TREATING LEGUME SEED IN THE SEED MIXTURES MUST BE A PURE CULTURE OF NITROGEN FIXING BACTERIA PREPARED SPECIFICALLY FOR THE SPECIES. INOCULANTS MUST NOT BE USED LATER THAN THE DATE INDICATED ON THE CONTAINER. ADD FRESH INOCULANTS AS DIRECTED ON THE PACKAGE. USE FOUR TIMES THE RECOMMENDED RATE WHEN HYDROSEEDING. NOTE: IT IS VERY IMPORTANT TO KEEP INOCULANT AS COOL AS POSSIBLE UNTIL USED. TEMPERATURES ABOVE 75 TO 80 DEGREES FAHRENHEIT CAN WEAKEN BACTERIA AND MAKE THE INOCULANT LESS EFFECTIVE.
 - SOD OR SEED MUST NOT BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STERILANTS OR CHEMICALS USED FOR WEED CONTROL UNTIL SUFFICIENT TIME HAS ELAPSED (14 DAYS MIN.) TO PERMIT DISSIPATION OF PHYTO-TOXIC MATERIALS.
 - APPLICATION**
 - DRY SEEDING: THIS INCLUDES USE OF CONVENTIONAL DROP OR BROADCAST SPREADERS.
 - INCORPORATE SEED INTO THE SUBSOIL AT THE RATES PRESCRIBED ON TEMPORARY SEEDING TABLE B.1, PERMANENT SEEDING TABLE B.3, OR SITE-SPECIFIC SEEDING SUMMARIES.
 - APPLY SEED IN TWO DIRECTIONS, PERPENDICULAR TO EACH OTHER. APPLY HALF THE SEEDING RATE IN EACH DIRECTION. ROLL THE SEEDING AREA WITH A WEIGHTED ROLLER TO PROVIDE GOOD SEED TO SOIL CONTACT.
 - DRILL OR CULTRIPACKER SEEDING: MECHANIZED SEEDERS THAT APPLY AND COVER SEED WITH SOIL. CULTRIPACKER SEEDERS ARE REQUIRED TO BURY THE SEED IN SUCH A FASHION AS TO PROVIDE AT LEAST 1/4 INCH OF SOIL COVERING. SEEDBED MUST BE FIRM AFTER PLANTING.
 - APPLY SEED IN TWO DIRECTIONS, PERPENDICULAR TO EACH OTHER. APPLY HALF THE SEEDING RATE IN EACH DIRECTION.
 - HYDROSEEDING: APPLY SEED UNIFORMLY WITH HYDROSEEDER (SLURRY INCLUDES SEED AND FERTILIZER).
 - IF FERTILIZER IS BEING APPLIED AT THE TIME OF SEEDING, THE APPLICATION RATES SHOULD NOT EXCEED THE FOLLOWING: NITROGEN, 100 POUNDS PER ACRE TOTAL OF SOLUBLE NITROGEN; P205 (PHOSPHOROUS), 200 POUNDS PER ACRE; K2O (POTASSIUM), 200 POUNDS PER ACRE.
 - LIME: USE ONLY GROUND AGRICULTURAL LIMESTONE (UP TO 3 TONS PER ACRE MAY BE APPLIED BY HYDROSEEDING). NORMALLY, NOT MORE THAN 2 TONS ARE APPLIED BY HYDROSEEDING AT ANY ONE TIME. DO NOT USE BURNED OR HYDRATED LIME WHEN HYDROSEEDING.
 - MIX SEED AND FERTILIZER ON SITE AND SEED IMMEDIATELY AND WITHOUT INTERRUPTION.
 - WHEN HYDROSEEDING DO NOT INCORPORATE SEED INTO THE SOIL.
- MULCHING**
 - MULCH MATERIALS (IN ORDER OF PREFERENCE)**
 - STRAW CONSISTING OF THOROUGHLY THRESHED WHEAT, RYE, OAT, OR BARLEY AND REASONABLY BRIGHT IN COLOR. STRAW IS TO BE FREE OF NOXIOUS WEED SEEDS AS SPECIFIED IN THE MARYLAND SEED LAW AND NOT MUSTY, MOLDY, CAKED, DECAYED, OR EXCESSIVELY DUSTY. NOTE: USE ONLY STERILE STRAW MULCH IN AREAS WHERE ONE SPECIES OF GRASS IS DESIRED.
 - WOOD CELLULOSE FIBER MULCH (WCFM) CONSISTING OF SPECIALLY PREPARED WOOD CELLULOSE PROCESSED INTO A UNIFORM FIBROUS PHYSICAL STATE.
 - WCFM IS TO BE DYED GREEN OR CONTAIN A GREEN DYE IN THE PACKAGE THAT WILL PROVIDE AN APPROPRIATE COLOR TO FACILITATE VISUAL INSPECTION OF THE UNIFORMLY SPREAD SLURRY.
 - WCFM, INCLUDING DYE, MUST CONTAIN NO GERMINATION OR GROWTH INHIBITING FACTORS.
 - WCFM MATERIALS ARE TO BE MANUFACTURED AND PROCESSED IN SUCH A MANNER THAT THE WOOD CELLULOSE FIBER MULCH WILL REMAIN IN UNIFORM SUSPENSION IN WATER UNDER AGITATION AND WILL BLEND WITH SEED, FERTILIZER AND OTHER ADDITIVES TO FORM A HOMOGENEOUS SLURRY. THE MULCH MATERIAL MUST FORM A BLOTTER-LIKE GROUND COVER. ON APPLICATION, HAVING MOISTURE ABSORPTION AND PERCOLATION PROPERTIES AND MUST COVER AND HOLD GRASS SEED IN CONTACT WITH THE SOIL WITHOUT INHIBITING THE GROWTH OF THE GRASS SEEDLINGS.
 - WCFM MATERIAL MUST NOT CONTAIN ELEMENTS OR COMPOUNDS AT CONCENTRATION LEVELS THAT WILL BE PHYTO-TOXIC.
 - WCFM MUST CONFORM TO THE FOLLOWING PHYSICAL REQUIREMENTS: FIBER LENGTH OF APPROXIMATELY 10 MILLIMETERS, DIAMETER APPROXIMATELY 1 MILLIMETER, PH RANGE OF 4.0 TO 8.5, ASH CONTENT OF 1.6 PERCENT MAXIMUM AND WATER HOLDING CAPACITY OF 90 PERCENT MINIMUM.
 - APPLICATION**
 - APPLY MULCH TO ALL SEEDED AREAS IMMEDIATELY AFTER SEEDING.
 - WHEN STRAW MULCH IS USED, SPREAD IT OVER ALL SEEDED AREAS AT THE RATE OF 2 TONS PER ACRE TO A UNIFORM LOOSE DEPTH OF 1 TO 2 INCHES. APPLY MULCH TO ACHIEVE A UNIFORM DISTRIBUTION AND DEPTH SO THAT THE SOIL SURFACE IS NOT EXPOSED. WHEN USING A MULCH ANCHORING TOOL, INCREASE THE APPLICATION RATE TO 2.5 TONS PER ACRE.
 - WOOD CELLULOSE FIBER USED AS MULCH MUST BE APPLIED AT A NET DRY WEIGHT OF 1500 POUNDS PER ACRE. MIX THE WOOD CELLULOSE FIBER WITH WATER TO ATTAIN A MIXTURE WITH A MAXIMUM OF 50 POUNDS OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER.
 - ANCHORING**
 - PERFORM MULCH ANCHORING IMMEDIATELY FOLLOWING APPLICATION OF MULCH TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS (LISTED BY PREFERENCE), DEPENDING UPON THE SIZE OF THE AREA AND EROSION HAZARD:
 - A MULCH ANCHORING TOOL IS A TRACTOR DRAWN IMPLEMENT DESIGNED TO PUNCH AND ANCHOR MULCH INTO THE SOIL SURFACE A MINIMUM OF 2 INCHES. THIS PRACTICE IS MOST EFFECTIVE ON LARGE AREAS, BUT IS LIMITED TO FLATTER SLOPES WHERE EQUIPMENT CAN OPERATE SAFELY. IF GRASSES (ANNUAL RYEGRASS, PEARL MILLET, FORTAL MILLET), DO NOT EXCEED MORE THAN 5% (BY WEIGHT) OF THE OVERALL PERMANENT SEEDING MIX. CEREAL RYE GENERALLY SHOULD NOT BE USED AS A NURSE CROP, UNLESS PLANTING WILL OCCUR IN VERY LATE FALL BEYOND THE SEEDING DATES FOR OTHER TEMPORARY SEEDINGS. CEREAL RYE HAS ALLELOPATHIC PROPERTIES THAT INHIBIT THE GERMINATION AND GROWTH OF OTHER PLANTS IF IT MUST BE USED AS A NURSE CROP, SEED AT 1/3 OF THE RATE LISTED ABOVE. OATS ARE THE RECOMMENDED NURSE CROP FOR WARM-SEASON GRASSES.
 - FOR SANDY SOILS, PLANT SEEDS AT TWICE THE DEPTH LISTED ABOVE.
 - THE PLANTING DATES LISTED ARE AVERAGES FOR EACH ZONE AND MAY REQUIRE ADJUSTMENT TO REFLECT LOCAL CONDITIONS, ESPECIALLY NEAR THE BOUNDARIES OF THE ZONE.



HANDICAP PARKING INSET

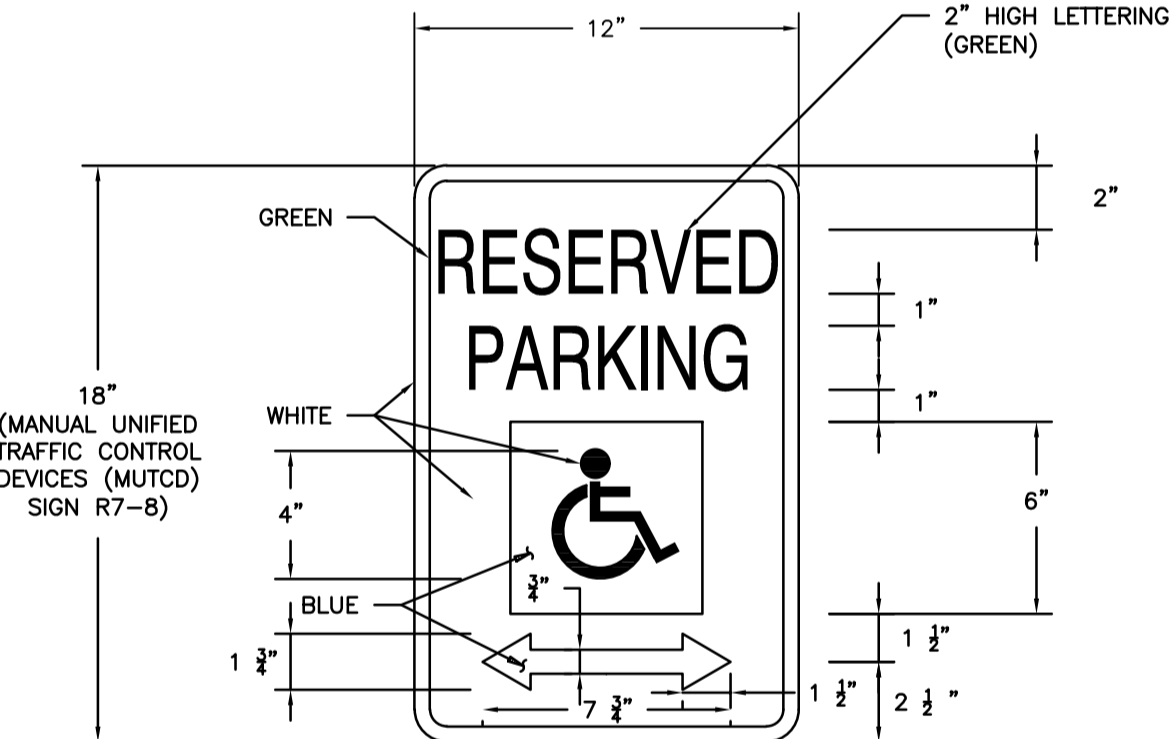
SCALE: 1" = 5'
SEE SHEET 4 FOR SIGN LEGEND

STRIPING SPECIFICATIONS

- WHITE THERMOPLASTIC STRIPING (4" WIDE) AT ALL PARKING SPACES IN PARKING LOT.
- WHITE (4" WIDE) THERMOPLASTIC DIAGONAL STRIPING AT NO PARKING AREAS AND ACCESS AISLES SHALL BE A MINIMUM FIVE FEET (5') WIDE FOR PEDESTRIAN ACCESS IN ACCORDANCE WITH APPLICABLE ACCESSIBILITY REQUIREMENTS. THE DIAGONAL STRIPES SHALL BE SPACED 3 FEET ON CENTER.
- APPLY PAVEMENT MARKINGS TO CLEAN DRY PAVEMENT WHEN PAINT, AMBIENT AND SURFACE TEMPERATURE, AND RELATIVE HUMIDITY CONFORM TO THE MANUFACTURER'S RECOMMENDATIONS.

HANDICAP PARKING NOTES

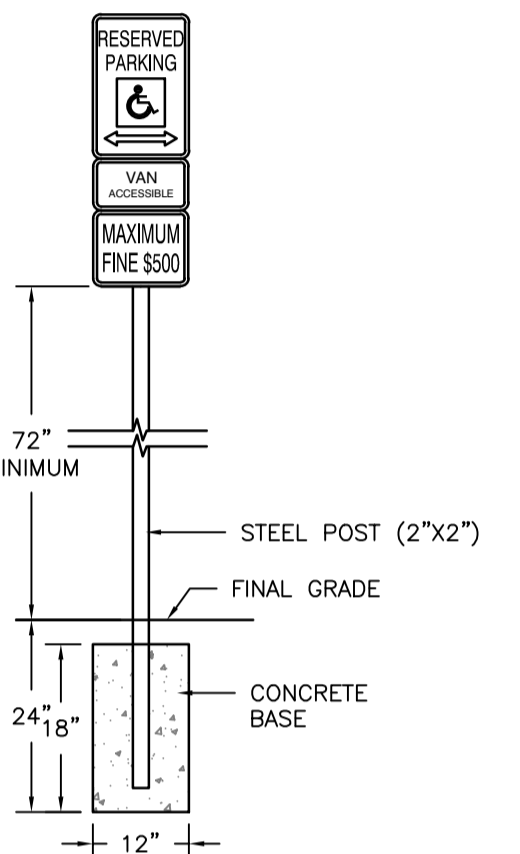
- PARKING SPACE SHALL BE 96 INCHES WIDE MINIMUM, MARKED TO DEFINE THE WIDTH, AND MAXIMUM SLOPE IN ALL DIRECTIONS IS 1:48.
- BOUNDARY OF THE UNLOADING/LOADING AREAS & ACCESS AISLE MUST BE CLEARLY MARKED SO AS TO DISCOURAGE PARKING IN IT. (STATE OR LOCAL LAWS MAY ADDRESS THE COLOR AND MANNER THAT PARKING SPACES AND ACCESS AISLES ARE MARKED.)



HANDICAP PARKING SIGN

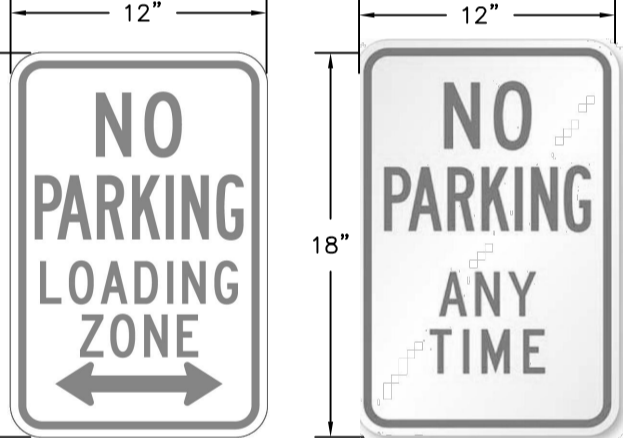
SCALE: N.T.S.

- NOTES:
- BOTTOM EDGE OF SIGN SHALL BE A MINIMUM OF 6" ABOVE FINISHED GRADE.
 - CONTRACTOR SHALL INSTALL ONE SIGN PER HANDICAP PARKING SPACE.
 - SIGN ARE TO BE CENTERED ON STALL WIDTH, FACING PARKING.
 - ALL SIGNS SHALL HAVE A WHITE BACKGROUND WITH GREEN LETTERING IN ACCORDANCE WITH THE MUTCD AND MARYLAND SHA STANDARDS, LATEST EDITION THEREOF.



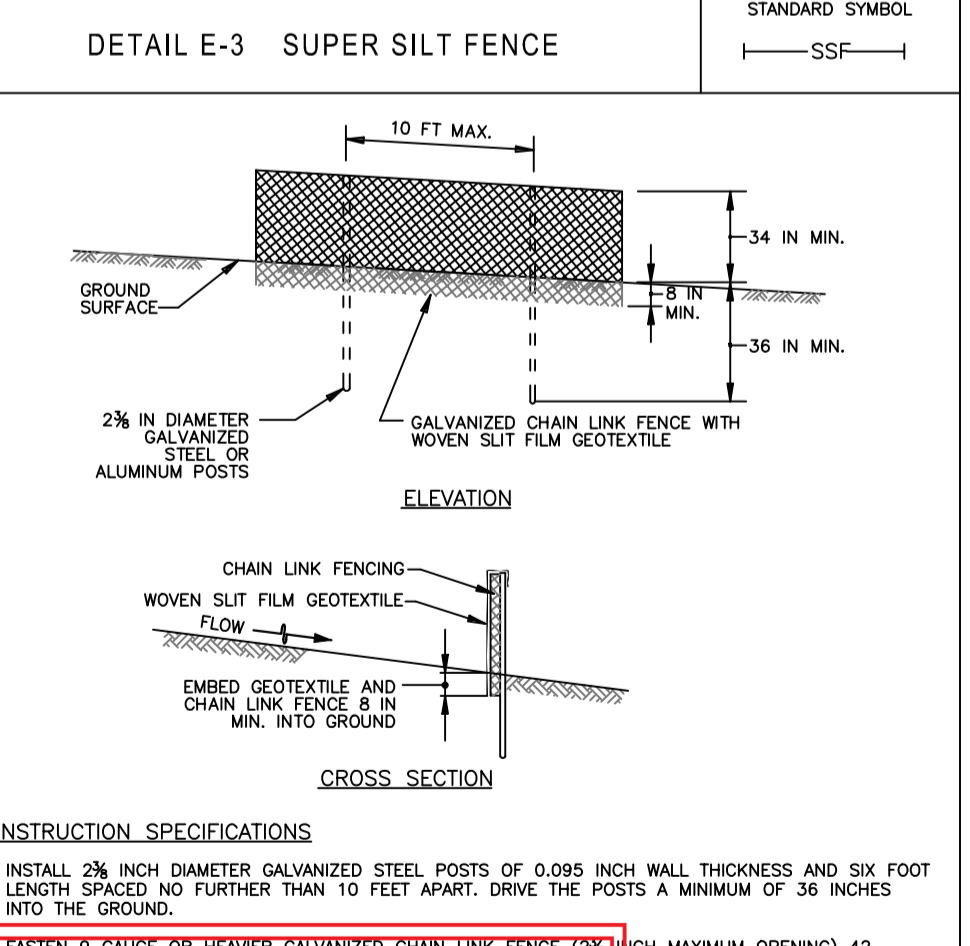
SIGN POST DETAIL

SCALE: N.T.S.



NO PARKING SIGN

NOTE: SIGN TO BE IN ACCORDANCE WITH MUTCD R7-8



CONSTRUCTION SPECIFICATIONS

- INSTALL 2 1/2 INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS A MINIMUM OF 36 INCHES INTO THE GROUND.
- FASTEN 9 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2 1/2 INCH MAXIMUM OPENING) 42 INCHES ABOVE FINISHED GRADE TO THE GALVANIZED STEEL POSTS WITH WIRE TIES OR HOOP RINGS. MATERIALS, SECURELY TO BE PLACED WHERE SPECIFIED ON PLANS.
- WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES. NO DIRECT CONTACT IS TO BE MADE BETWEEN THE ENDS OF THE GEOTEXTILE.
- REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN FENCE OR WHEN SEDIMENT ACCUMULATES TO A DEPTH OF 2 INCHES. REPLACE GEOTEXTILE IF TORN, IF UNDERMINING OCCURS, REINSTALL GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-11 MATERIALS.

APPROVED PERMIT SIGN

Department of the Environment & General Services
Princess Anne County, Maryland
Completed a review of this document for code compliance as required by State & Federal laws and regulations. This document is the property of the Department of the Environment & General Services and shall remain the property of the Department of the Environment & General Services. A record copy of this document must be provided to the Department of the Environment & General Services upon completion of the project.

Case Name: MTC
Application Number: 19-000000
Permit Number: PG161550000
Issuance Date: 05/14/24
Address: 10000 DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE 2011

TYPE I - TURBIDITY CURTAIN DETAIL

SCALE: NOT TO SCALE
NOTE: TURBIDITY CURTAIN TO PROTECT ACTIVE SHORELINE WORK AREA - LIMITED TO 400' AT ANY ONE TIME.

HANDICAP PARKING SIGN

SCALE: N.T.S.

NO.	SPECIES	APPLICATION RATE (lb/ac)	SEEDING DATES	SEEDING DEPTHS	FERTILIZER RATE (10-20-20)		LIME RATE
					N	P2O5	
1	ANNUAL RYEGRASS	40	2/15 - 4/30 8/15 - 11/30	0.5"			
2	BARLEY	96	2/15 - 4/30 8/15 - 11/30	1.0"			
3	OATS	72	2/15 - 4/30 8/15 - 12/15	1.0"	436 lb/ac (110 lb/1000 sf)		2 tons/ac (90 lb/1000 sf)
4	RYE	112	2/15 - 4/30 8/15 - 12/15	1.0"			
5	FORTAL MILLET	30	5/1 - 8/14	0.5"			

NO.	SPECIES	APPLICATION RATE (lb/ac)	SEEDING DATES	SEEDING DEPTHS	FERTILIZER RATE (10-20-20)			LIME RATE
					N	P2O5	K2O	
1	SWITCHGRASS CREEPING RED FESCUE BUSH CLOVER	10 15 2	2/15 - 4/30 5/1 - 5/31	1" - 1 1/2"				
2	BIG BLUESTEM INDIANGRASS LITTLE BLUESTEM CREEPING RED FESCUE BUSH CLOVER	6 4 15 2	2/15 - 4/30 5/1 - 5/31	1" - 1 1/2"	45 lb/ac (1.0 lb/ 1000 sf)	90 lb/ac (2.0 lb/ 1000 sf)	90 lb/ac (2.0 lb/ 1000 sf)	2 tons/ac (90 lb/ 1000 sf)
3	DEERTONGUE SHEEP FESCUE COMMON LEPSPEDEZA	20 10	2/15 - 4/30 5/1 - 5/31	1" - 1 1/2"				

NOTES:

- SEEDING RATES FOR THE WARM-SEASON GRASSES ARE IN POUNDS OF PURE LIVE SEED (PLS). ACTUAL PLANTING RATES SHALL BE ADJUSTED TO REFLECT PERCENT SEED GERMINATION AND PURITY, AS TESTED. ADJUSTMENTS ARE USUALLY NOT NEEDED FOR THE COOL-SEASON GRASSES. SEEDING RATES LISTED ABOVE ARE FOR TEMPORARY SEEDINGS, WHEN PLANTED ALONE. WHEN PLANTED AS A NURSE CROP WITH PERMANENT SEED MIXES, USE 1/3 OF THE SEEDING RATE LISTED ABOVE FOR BARLEY, OATS, AND WHEAT. FOR SMALLER-SEEDED GRASSES (ANNUAL RYEGRASS, PEARL MILLET, FORTAL MILLET), DO NOT EXCEED MORE THAN 5% (BY WEIGHT) OF THE OVERALL PERMANENT SEEDING MIX. CEREAL RYE GENERALLY SHOULD NOT BE USED AS A NURSE CROP, UNLESS PLANTING WILL OCCUR IN VERY LATE FALL BEYOND THE SEEDING DATES FOR OTHER TEMPORARY SEEDINGS. CEREAL RYE HAS ALLELOPATHIC PROPERTIES THAT INHIBIT THE GERMINATION AND GROWTH OF OTHER PLANTS IF IT MUST BE USED AS A NURSE CROP, SEED AT 1/3 OF THE RATE LISTED ABOVE. OATS ARE THE RECOMMENDED NURSE CROP FOR WARM-SEASON GRASSES.
- FOR SANDY SOILS, PLANT SEEDS AT TWICE THE DEPTH LISTED ABOVE.
- THE PLANTING DATES LISTED ARE AVERAGES FOR EACH ZONE AND MAY REQUIRE ADJUSTMENT TO REFLECT LOCAL CONDITIONS, ESPECIALLY NEAR THE BOUNDARIES OF THE ZONE.

THE MARYLAND-NATIONAL CAPITAL PARK & PLANNING COMMISSION

DEPARTMENT OF PARKS & RECREATION
PRINCE GEORGE'S COUNTY
6600 KENILWORTH AVENUE
RIVERDALE, MARYLAND 20737
301-699-2481

PATUXENT RIVER PARK

JACKSON'S LANDING

PARK # R91
16000 CROOM AIRPORT RD
UPPER MARLBORO MD
20772

CONSULTANT
Bryce
Consultants & Designers, Inc.
"Inspiring Engineering and Environment"
7491 New Ridge Road, Suite T Phone: (410) 646-9400
Baltimore, Maryland 21286 Fax: (410) 646-9400
www.bryceinc.com

DESIGN: MB/BJ
DRAWN: MB/DG
PROJECT MANAGER: FRANCIS KANG

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21184, EXPIRES DATE 04/20/2024.

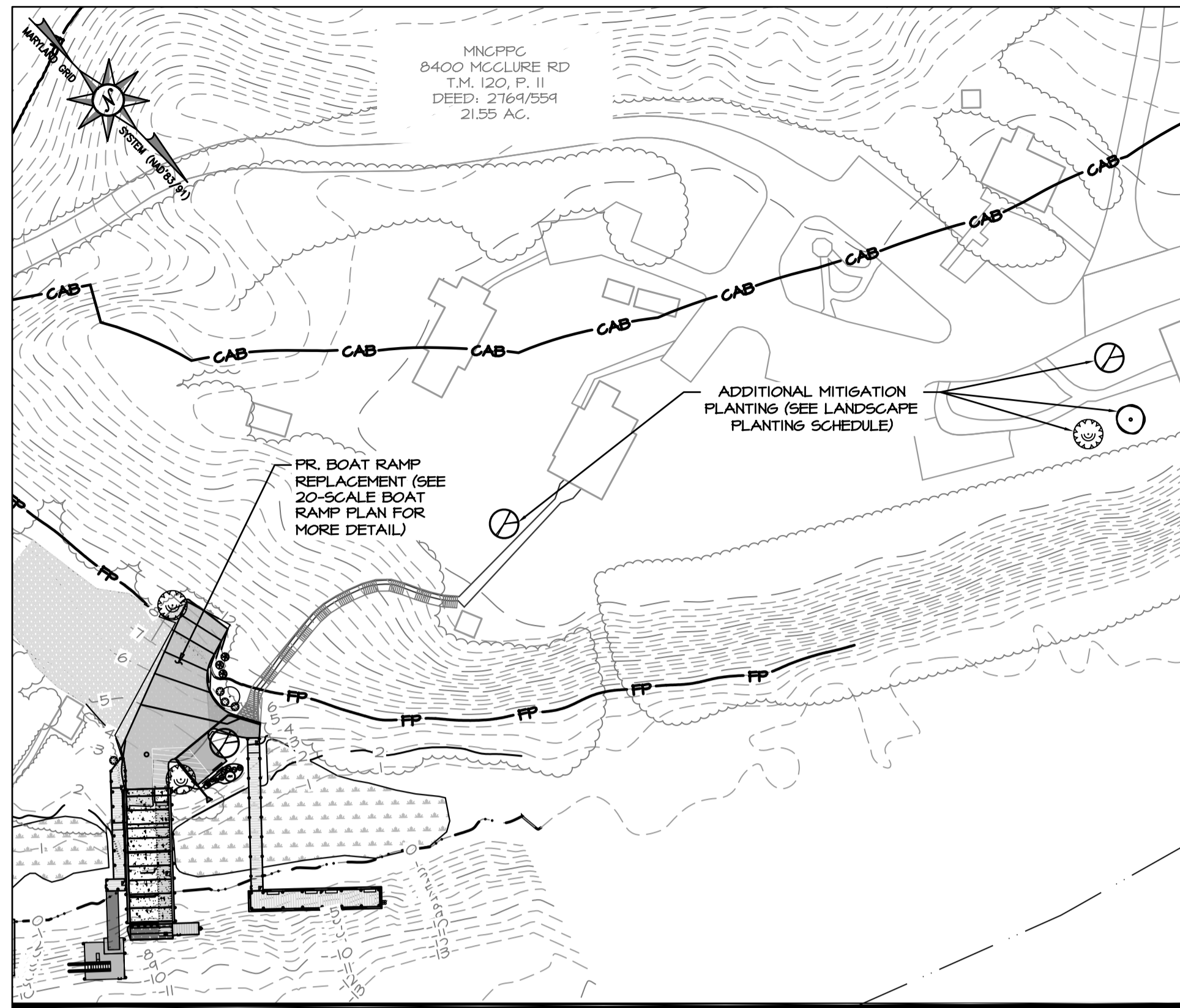


SHEET TITLE

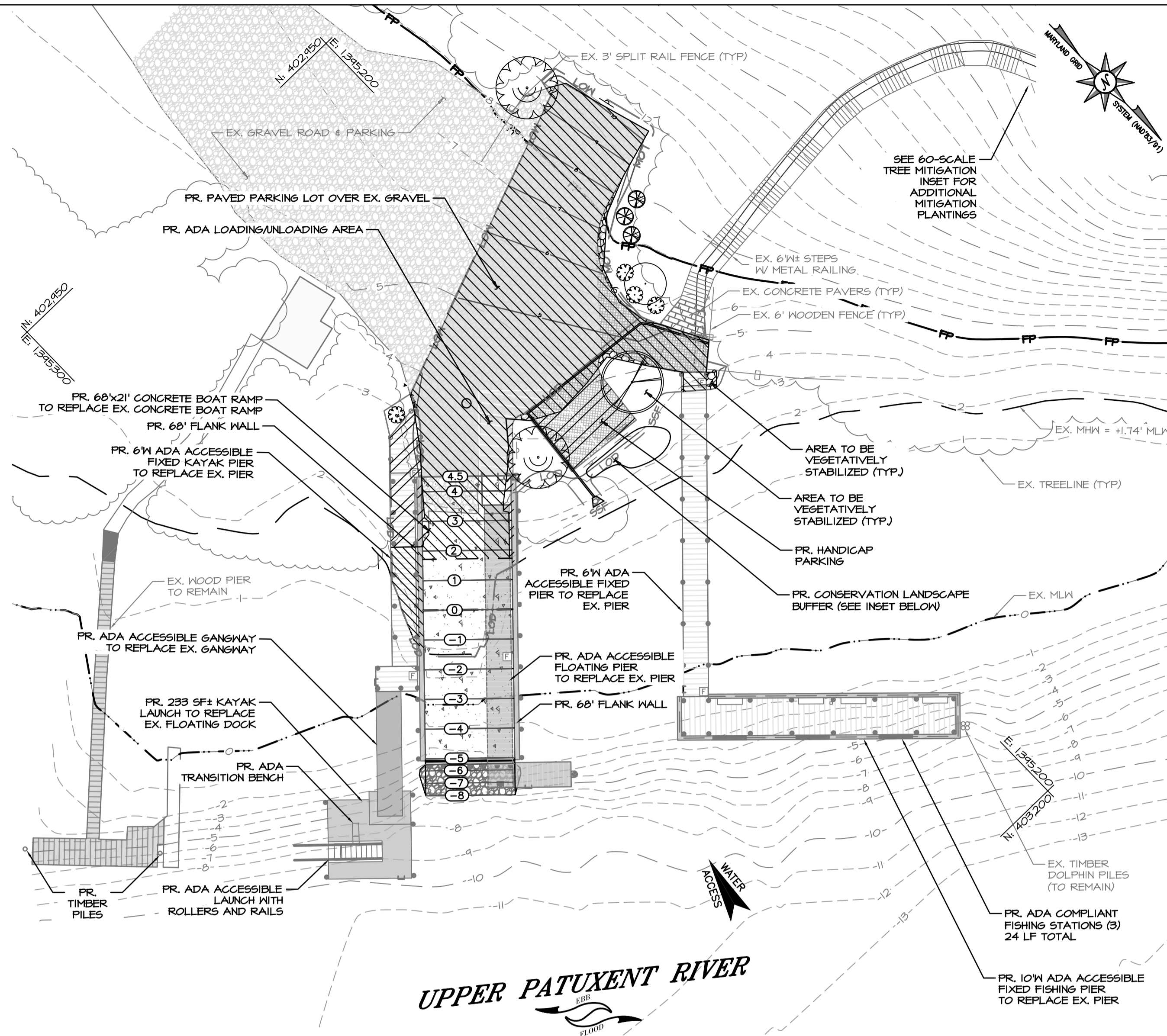
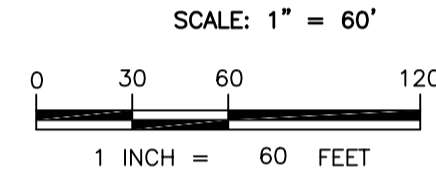
SITE DETAILS & NOTES

BID NO. _____
DATE: 05/14/24
ISSUE: _____ DATE _____

SHEET NO.

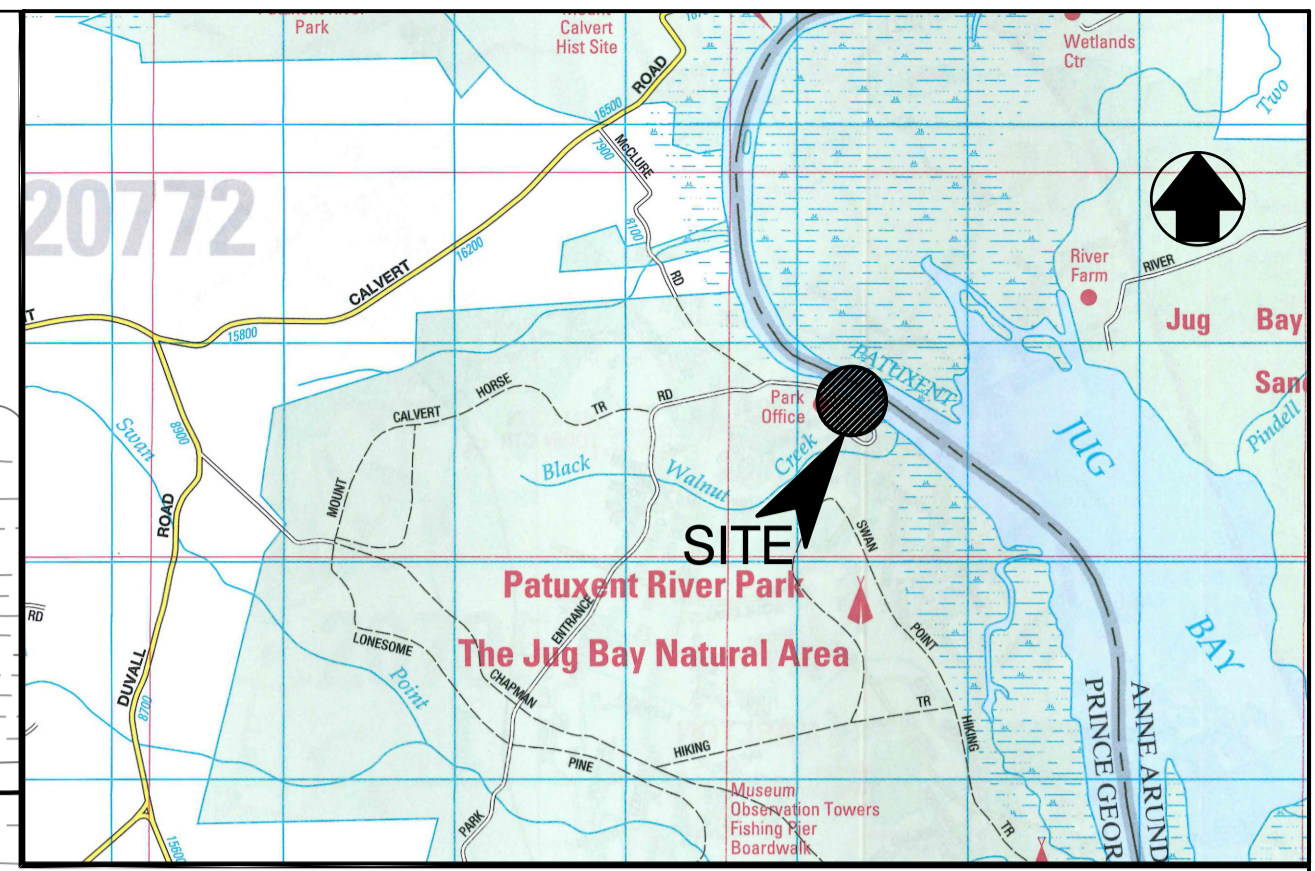
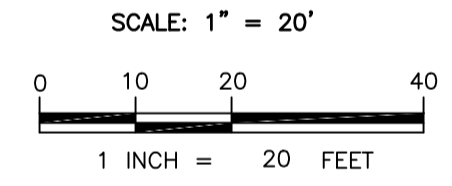


TREE MITIGATION INSET



UPPER PATUXENT RIVER

BOAT RAMP PLAN VIEW



VICINITY MAP

SCALE: 1" = 2000'

LEGEND

- PROPERTY BOUNDARY
- EX. MAJOR CONTOURS
- EX. MINOR CONTOURS
- 100' CRITICAL AREA BUFFER
- EX. SOILS BOUNDARY
- EX. LOT COVERAGE TO BE REMOVED.
- EX. LOT COVERAGE TO REMAIN/BE REPLACED
- PR. NEW LOT COVERAGE

SITE INFORMATION

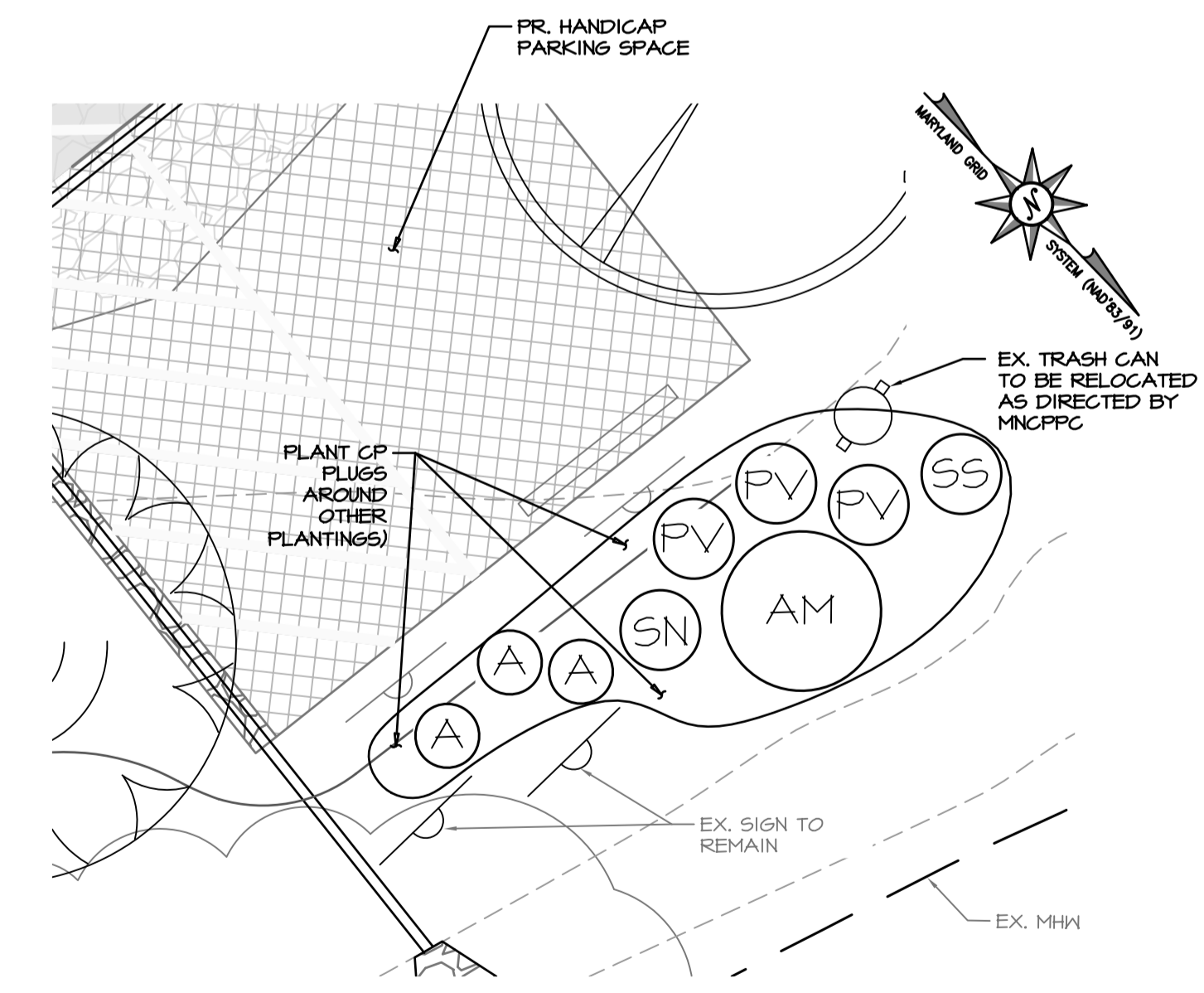
- OWNER/DEVELOPER: MARYLAND-NATIONAL CAPITAL PARK & PLANNING COMMISSION WITH PRINCE GEORGE'S COUNTY DEPARTMENT OF PARKS & RECREATION
- OWNER/DEVELOPER INFORMATION: MARYLAND-NATIONAL CAPITAL PARK AND PLANNING COMMISSION 6600 KENILWORTH AVENUE RIVERDALE, MD 20737 ATTN: FRANCIS KANG PH: 301-699-2441
- ENGINEER: BAYLAND CONSULTANTS & DESIGNERS, INC.
- ENGINEER INFORMATION: 7455 NEW RIDGE ROAD, SUITE T HANOVER, MARYLAND 21076 PH: 410-694-9401
- TAX MAP: 120
- PARCEL: 11
- DEED REF: 2769/559
- DISTRICT: 4
- ZONING: RESERVED OPEN SPACE (R-0-S)
- USE: PUBLIC PARK
- PROPERTY AREA: 21.55 ACRES
- CRITICAL AREA: 21.55 ACRES
- WATERSHED: UPPER PATUXENT RIVER

GENERAL NOTES

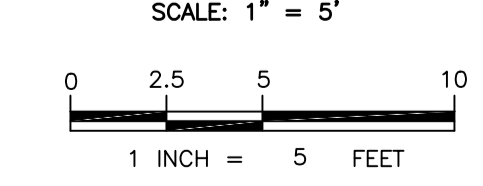
- THE PURPOSE OF THIS BUFFER MANAGEMENT PLAN IS TO COMPLY WITH THE BUFFER MITIGATION REQUIREMENTS FOR THE UPGRADES TO THE EXISTING LAUNCH FACILITY ON THE SUBJECT PROPERTY.
- THE PROPERTY SHOWN HEREON IS LOCATED WITHIN THE CHESAPEAKE BAY CRITICAL AREA.
- THE CHESAPEAKE BAY CRITICAL AREA DESIGNATION FOR THIS PROPERTY IS RCA (RESOURCE CONSERVATION AREA).
- THE PROJECT WILL RESULT IN NO NET INCREASE IN LOT COVERAGE OUTSIDE OF THE BUFFER.
- THIS PLAT WAS PREPARED WITHOUT BENEFIT OF REVIEW OF AN ABSTRACT OF TITLE.
- MEAN HIGH WATER AS SHOWN HEREON IS BASED ON A TOPOGRAPHIC SURVEY BY BAYLAND CONSULTANTS & DESIGNERS, INC., DATED FEBRUARY 12, 2021.

MITIGATION SUMMARY

SITE AREA CALCULATIONS	
TOTAL LOD	2,345 SF
LOD IN BUFFER	
EX LOT COVERAGE TO REMAIN	412 SF
EX LOT COVERAGE REMOVAL	30 SF
PR LOT COVERAGE	265 SF
EX PERVIOUS AREA TO REMAIN OR BE RESTORED UPON PROJECT COMPLETION	1,638 SF
TOTAL LOD IN BUFFER	2,345 SF
MITIGATION REQUIREMENT CALCULATIONS	
LOT COVERAGE MITIGATION REQUIREMENTS	
PR NEW WATER DEPENDENT LOT COVERAGE	269 SF
MITIGATION RATIO	2 : 1
SUBTOTAL	538 SF
PR NEW WATER DEPENDENT ACCESSORY LOT COVERAGE	268 SF
MITIGATION RATIO	3 : 1
SUBTOTAL	804 SF
PR NEW LOT COVERAGE TOTAL	1,342 SF
DEDUCTION FOR EX LOT COVERAGE REMOVAL	30 SF
NET LOT COVERAGE MITIGATION REQUIRED	1,312 SF
10% RULE REQUIREMENT (NON-STRUCTURAL BMP/PLANTING)	
	600 SF
TOTAL PLANTING CREDIT REQUIRED	
	1,912 SF
MITIGATION PROVIDED	
MITIGATION PLANTING PROVIDED (SEE PLANTING SCHEDULE)	1,917 SF
MITIGATION REQUIREMENT SATISFIED	YES



CONSERVATION LANDSCAPE BUFFER INSET



SOILS TABLE

APPROVED PERMIT SET

SOIL SERIES	SLOPES (%)	K FACTOR	HYDRIC RATING
WIST COMPLEX	15-25	0.17	0
SOILS, TIDALLY FLOODED	-	0.43	1.0

Case Name: MNCPPC Department of P&R DEMO/EXTERIOR OPERATIONS 2024-CG
 Application Number: 2024-CG
 Permit No: 2024-CG
 Issuance Date: 06/26/24
 Address: DME

APPROVED AS NOTED BY BUILDING SECTION

DPIE DEPARTMENT OF PERMITTING, INSPECTIONS AND ENFORCEMENT

THE MARYLAND-NATIONAL CAPITAL PARK & PLANNING COMMISSION

DEPARTMENT OF PARKS & RECREATION
 PRINCE GEORGE'S COUNTY
 6600 KENILWORTH AVENUE
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 301-699-2481

PATUXENT RIVER PARK

JACKSON'S LANDING

PARK # R91
 8400 MCCLURE RD
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CONSULTANT
 Bayland Consultants & Designers, Inc.
 7455 New Ridge Road, Suite T
 Hanover, Maryland 21076
 Phone: 410-694-9401
 Fax: 410-694-9402
 www.baylandinc.com

DESIGN: MB/AJ
 DRAWN: MB/DG
 PROJECT MANAGER: FRANCIS KANG

PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21184, EXPIRATION DATE: 04/20/2024.

STATE OF MARYLAND
 PROFESSIONAL ENGINEER
 FRANCIS KANG
 1/31/24

BUFFER MANAGEMENT PLAN

BID NO.
 DATE: 03/18/24
 ISSUE: DATE

SHEET NO.

BUFFER MANAGEMENT PLAN APPROVAL

THIS BUFFER MANAGEMENT PLAN HAS BEEN REVIEWED AND APPROVED FOR CONSISTENCY WITH THE LOCAL CRITICAL AREA PROGRAM AND THE PROVISIONS OF COMAR 27.01.09.01-1-7.

STAFF NAME _____ STAFF TITLE _____ DATE _____

INSPECTION AGREEMENT

I, _____, THE OWNER OF THE SUBJECT PROPERTY, SHOWN HEREON, DO HEREBY GRANT PERMISSION TO THE APPROVING AUTHORITY TO INSPECT THE PLANTINGS AT APPROPRIATE TIMES AT THE ADDRESS PROVIDED BELOW.

STREET ADDRESS: 8400 MCCLURE RD
TAX MAP: 120
GRID: F1
PARCEL: 11
SECTION: N/A
LOT: N/A

OWNER _____ DATE _____

LANDSCAPE NOTES

- ALL PLANT SPECIES SHALL BE NATIVE TO THE CHESAPEAKE AND ATLANTIC COASTAL BAYS REGION BASED ON THE U.S. FISH AND WILDLIFE SERVICE PUBLICATION, NATIVE PLANTS FOR WILDLIFE HABITAT AND CONSERVATION LANDSCAPING.
- ALL PLANT MATERIALS SHALL BE NURSERY GROWN AND SHALL CONFORM TO AMERICAN ASSOCIATION OF NURSERYMEN, INC. STANDARDS.
- CONTRACTOR IS RESPONSIBLE TO VERIFY ALL UTILITY LOCATIONS PRIOR TO PLANTING MATERIAL. IF CONFLICTS ARISE, BAYLAND, INC. MUST BE NOTIFIED PRIOR TO ANY GROUND BREAKING.
- NO CONTAINER-GROWN MATERIAL SHALL BE PLANTED IF NOT ACCLIMATED TO THE CURRENT WEATHER CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR GENERAL MAINTENANCE INCLUDING WATERING.
- ALL PLANTING MATERIAL AND PLANTING METHODS SHALL CONFORM TO CONSTRUCTION SPECIFICATIONS.

MAINTENANCE AND LONG TERM PROTECTION PLAN

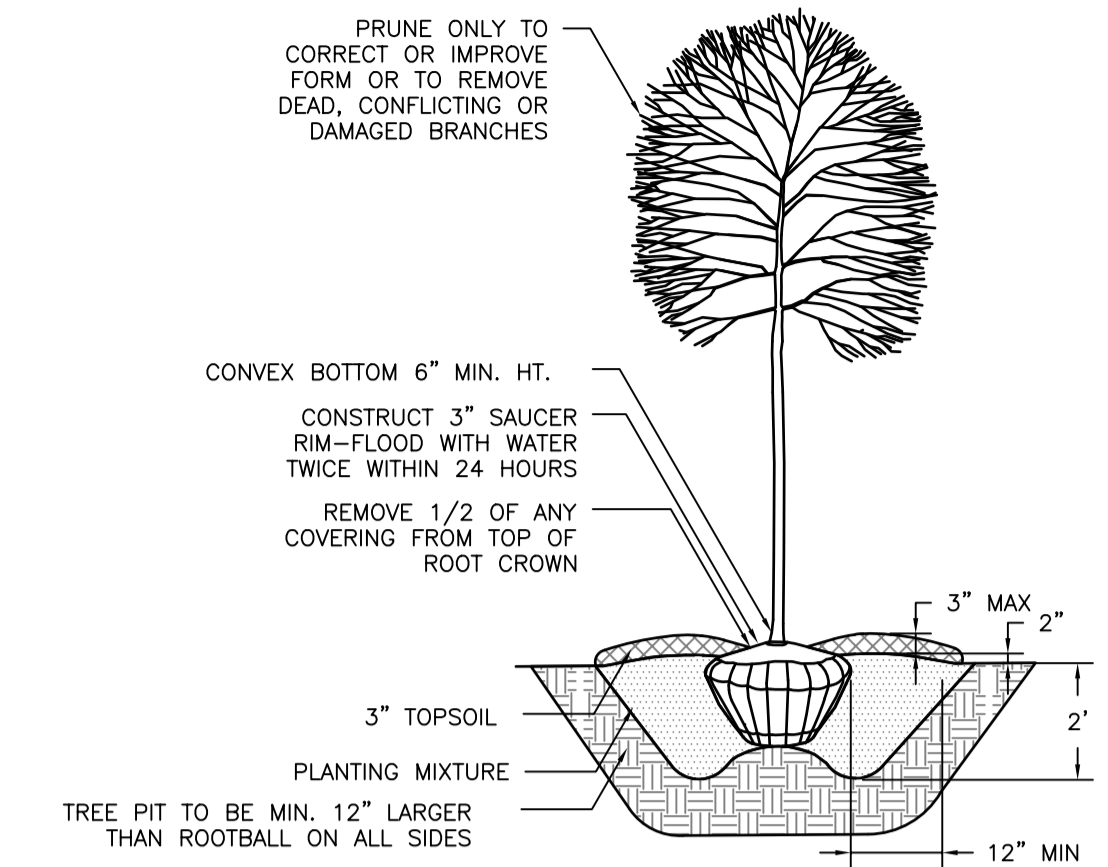
- MONITOR THE PLANTINGS OFTEN TO REDUCE PLANT STRESS SUCH AS WATER DEFICIENCY, NUTRIENT DEFICIENCY, INVASIVE SPECIES COMPETITION, PEST DAMAGE, AND DISEASE.
- WATER ONLY AS NECESSARY BUT AT LEAST ONCE EVERY 10 DAYS WITHOUT RAINFALL FROM MAY THROUGH SEPTEMBER, DEPENDING ON SOIL MOISTURE LEVELS. MONITOR TO ENSURE THAT OVER-WATERING DOES NOT FREQUENTLY OCCUR.
- USE ONLY LOW NITROGEN AND SLOW RELEASE FERTILIZERS AND APPLY IN LATE FALL OR EARLY SPRING.
- AT THE END OF THE 2-YEAR MONITORING PERIOD, THE SURVIVAL OF THE PLANTINGS SHALL BE ASSESSED TO DETERMINE THE NEED FOR REPLACEMENT PLANTINGS.
- ALL OF THE PLANTS ARE REQUIRED TO SURVIVE PER COMAR 27.01.09.01-2J. ANY LANDSCAPE STOCK PLANT OR PLANTS THAT DID NOT SURVIVE SHALL BE REPLACED.

BUFFER MANAGEMENT AND PROTECTION STANDARDS

- REMOVAL OF NATURAL VEGETATION WITHIN THE 100-FOOT BUFFER AND EXPANDED BUFFER IS PROHIBITED. CUTTING AND CLEARING OF NATURAL VEGETATION WITHIN THE BUFFER AND EXPANDED BUFFER SHALL BE AS SHOWN ON THIS BUFFER MANAGEMENT PLAN AS SUBMITTED AND/OR AS SUBSEQUENTLY AMENDED, SUBJECT TO APPROVAL BY THE CRITICAL AREA COMMISSION. ADDITIONAL INFORMATION CAN BE OBTAINED BY CONTACTING THE CRITICAL AREA COMMISSION AT 21804 WEST STREET, SUITE 100, ANNAPOLIS, MARYLAND 21401.
- THE CRITICAL AREA BUFFER ON THIS LOT SHALL BE PLANTED IN ACCORDANCE WITH THIS PLAN. ALL EXISTING AND PLANTED VEGETATION WITHIN THE BUFFER SHALL BE MAINTAINED AND SURVIVAL OF PLANTED AND NATURALLY OCCURRING REGENERATED AREAS OF THE BUFFER SHALL BE AS DESCRIBED IN THIS PLAN.
- NEW LAWN AREAS SHALL NOT BE CREATED WITHIN THE BUFFER OR EXPANDED BUFFER UNLESS SPECIFICALLY ADDRESSED IN THIS BUFFER MANAGEMENT PLAN.
- THE CONTRACTOR SHALL OBSERVE MINIMAL SITE PREPARATION/DISTURBANCE, PROTECTION, OF PLANTS AFTER DELIVERY UNTIL THEY ARE PLANTED. PROPER DIGGING AND HANDLING OF PLANT MATERIALS, PROPER EXCAVATION OF PLANTING AREAS, PLANTING OPERATIONS, STABILIZATION OF THE PLANTING AREAS WITH MULCH AFTER PLANTING, STAKING, AND PRUNING.

LANDSCAPE PLANTING SCHEDULE

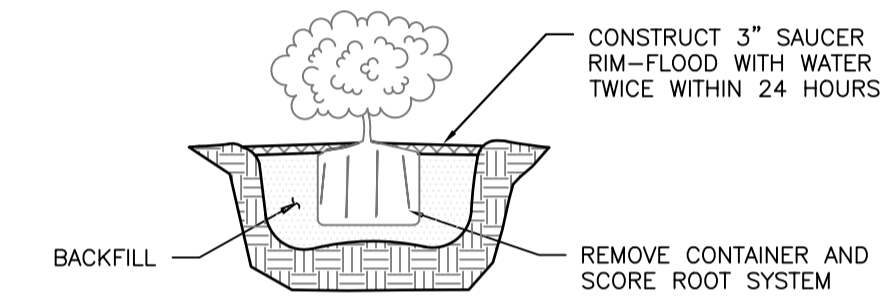
PLAN SYMBOL	SCIENTIFIC NAME	COMMON NAME	IND STATUS	SPACING	QUANTITY	TOTAL CREDIT (SF)
CANOPY TREES - 2" CALIPER						200 SF CREDIT PER UNIT
	ACER RUBRUM	RED MAPLE	FAC	AS SHOWN	3	600
	NYSSA SYLVATICA	BLACK GUM	FAC	AS SHOWN	1	200
	QUERCUS PHELLOS	WILLOW OAK	FACW	AS SHOWN	3	600
UNDERSTORY TREES - 3/4" CALIPER						75 SF CREDIT PER UNIT
	AMELANCHIER CANADENSIS	EASTERN SERVICEBERRY	FAC	AS SHOWN	1	75
LARGE SHRUBS - 36" CONTAINERIZED						50 SF CREDIT PER UNIT
	ARONIA MELANOCARPA	BLACK CHOKEBERRY	FAC	AS SHOWN	1	50
	CLETHRA ALNIFOLIA	COASTAL SWEETPEPPERBUSH	FACW	AS SHOWN	3	150
	ILEX GLABRA 'SHAMROCK'	'SHAMROCK' INKBERRY HOLLY	FACW	AS SHOWN	4	200
HERBACEOUS - 1 GALLON						8 SF CREDIT PER UNIT
	ASCLEPIAS TUBEROSA	BUTTERFLY MILKWEED	N/L	AS SHOWN	3	24
	PANICUM VIRGATUM	SWITCHGRASS	FAC	AS SHOWN	3	24
	SYMPHYOTRICHUM NOVAE-ANGLIAE	NEW ENGLAND ASTER	FACW	AS SHOWN	1	8
	SOLIDAGO SEMPEVIRENS	SEASIDE GOLDENROD	FACW	AS SHOWN	1	8
HERBACEOUS - PLUGS						CREDIT BASED ON AREA COVERED
	CAREX PENNSYLVANICA	PENNSYLVANIA SEDGE	N/L	0.75' ON CENTER	50	28
TOTAL					14	1917



- NOTES:
- CONTRACTOR TO REGRADE, SOD OR HYDROSEED AND STRAW MULCH ALL AREAS DISTURBED AS A RESULT OF THEIR WORK.
 - SPRAY WITH WILT-PROOF ACCORDING TO MANUFACTURES STANDARD.

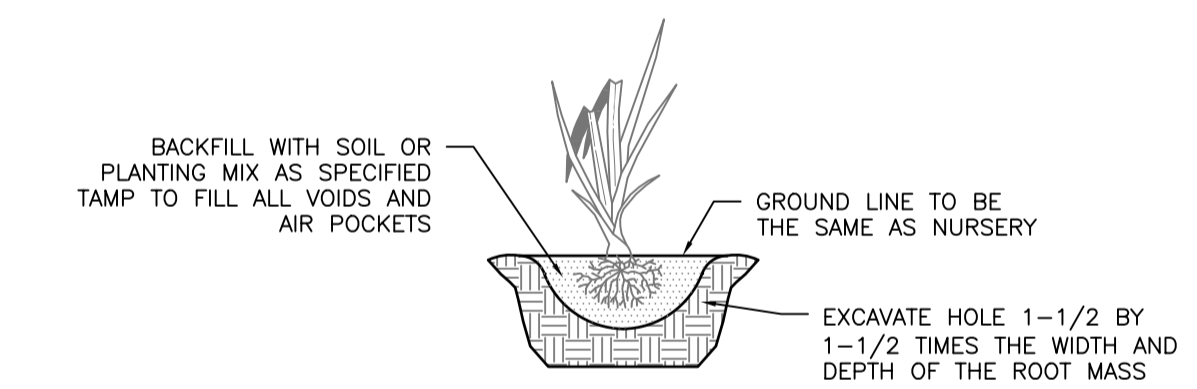
TREE PLANTING DETAIL

NOT TO SCALE



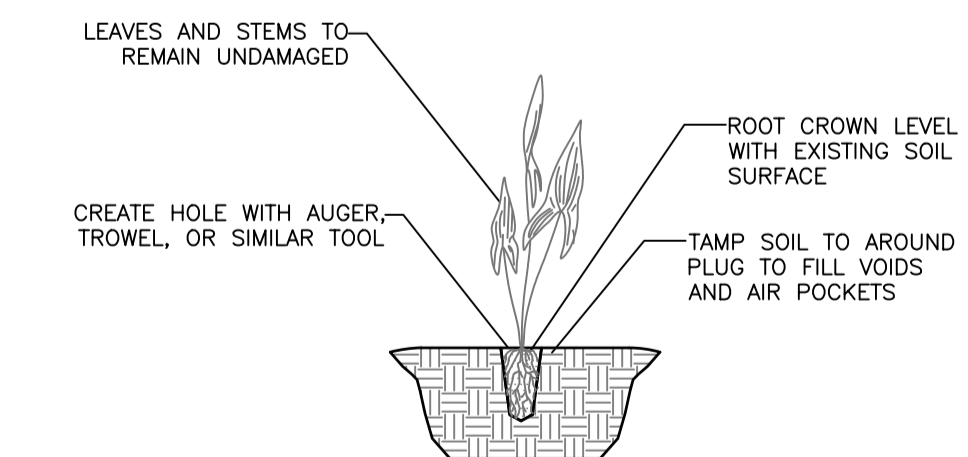
SHRUB PLANTING DETAIL

NOT TO SCALE



HERBACEOUS PLANTING - GALLON

NOT TO SCALE



HERBACEOUS PLANTING - PLUG

NOT TO SCALE

THE MARYLAND-NATIONAL CAPITAL PARK & PLANNING COMMISSION

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PATUXENT RIVER PARK

JACKSON'S LANDING

PARK # R91
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20772

CONSULTANT



DESIGN: MB/AJ

DRAWN: MB/DG

PROJECT MANAGER: FRANCIS KANG

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1/31/24

SHEET TITLE: BUFFER MANAGEMENT PLAN NOTES & DETAILS

BID NO.

DATE: 03/18/24

ISSUE: _____ DATE _____

SHEET NO.

2 OF 2

Prince George's County, Maryland
Department of Permitting, Inspections and Enforcement

APPROVED PERMIT SET

The Department of Permitting, Inspections and Enforcement has completed a review of this document for code compliance. As required by State Code, the design professional(s) responsible for the preparation and content of this document must provide a record copy of these documents with their original seal, signature and date.

Case Name: MNCPP Department of P&R DEMO/EXTERIOR
Application Number: OPERATIONS 2024-CG
Permit No: 2024-00167-2024-CG
Issuance Date: 06/26/24
Address: DPE

APPROVED AS NOTED BY BUILDING SECTION

Z:_3407_JACKSONS_LANDING_BOAT_LANE\CAD Files\Sheet Title\8-36-24_1.dwg