

# PROVIDENCE, RI

# CUNLIFF LAKE BOARDWALK IMPROVEMENTS

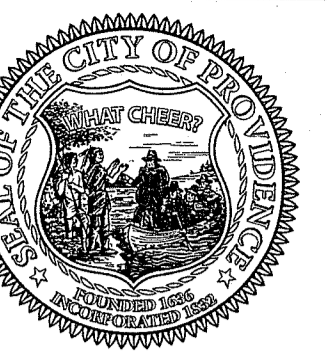
# AT ROGER WILLIAMS PARK

HONORABLE  
**BRETT P. SMILEY**  
MAYOR

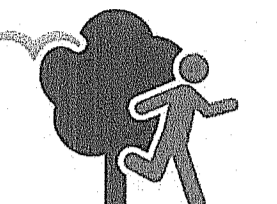
**WENDY NILSSON**  
SUPERINTENDENT OF PARKS

**JUAN PICHARDO**  
CITY COUNCILOR

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS  
SPECIFIED IN THE LETTER OF APPROVAL  
DATED: APR 17 2025 FILE #: 25-0015  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
*Gregory D. Wenech*



**PROVIDENCE**  
**PARKS DEPARTMENT**  
DALRYMPLE BOATHOUSE  
ROGER WILLIAMS PARK  
PROVIDENCE, RI 02905



**PROVIDENCE**  
**PARKS**  
play • relax • explore

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**PROJECT TEAM**

PARE CORPORATION  
8 BLACKSTONE VALLEY  
LINCOLN, RI 02865  
401-334-4100

TRAVERSE LANDSCAPE ARCHITECTS  
150 CHESTNUT STREET, 4TH FLOOR  
PROVIDENCE, RI 02903  
401-383-4950

**SHEET SCHEDULE**

- 0-0 COVER SHEET
- G1.0 GENERAL NOTES
- C1.0 EXISTING CONDITIONS SURVEY BY MCA (PDF)
- C1.1 AERIAL
- C2.0 EXISTING SITE AND DEMOLITION PLAN
- C3.0 PROPOSED SITE PLAN
- C4.0 BOARDWALK SECTIONS AND DETAILS
- C5.0 BOAT RAMP SECTIONS AND DETAILS
- C6.0 MISCELLANEOUS DETAILS
- S1.0 FRAMING PLAN
- L1-21 HARDSCAPE PLAN
- L1-31 LAYOUT PLAN
- LP1-01 OVERALL LANDSCAPE PLAN
- LP1-21 LANDSCAPE PLAN
- LP1-22 LANDSCAPE PLAN

**GENERAL NOTES**

1. FOR THE PURPOSE OF THIS PROJECT
  - OWNER - PROVIDENCE PARKS DEPARTMENT  
DALRYMPLE BOATHOUSE  
PROVIDENCE, RI 02905
  - ENGINEER - PARE CORPORATION  
10 LINCOLN ROAD, SUITE 210  
FOXBORO, MA 02035
  - CONTACT - TODD TURCOTTE, P.E., VICE PRESIDENT
2. ALL CONSTRUCTION INDICATED ON THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE RHODE ISLAND STATE BUILDING CODE, ALL FEDERAL AND MUNICIPAL BUILDING CODES, AND THE SPECIFICATIONS INCLUDED IN THIS CONTRACT. THESE PLANS ARE INCOMPLETE UNLESS ACCOMPANIED BY THE SPECIFICATIONS INCLUDED IN THE CONTRACT DOCUMENTS.
3. THE BASE PLAN WAS DEVELOPED BASED UPON PLAN ENTITLED "TOPOGRAPHIC SURVEY FOR ROGER WILLIAMS PARK CUNLIFF LAKE BOARDWALK" PREPARED BY MARTINEZ COUCH & ASSOCIATES, LLC OF ROCKY HILL, CONNECTICUT JUNE 2024. ANY DISCREPANCIES OR ERRORS ON THESE PLANS WITH REGARD TO DIMENSIONS OR CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PORTION OF WORK.
4. FRESHWATER WETLANDS DELINEATED BY PARE CORPORATION ON MARCH 15, 2024.
5. HORIZONTAL DATUM: RHODE ISLAND STATE PLANE - NAD83  
VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AS ESTABLISHED BY NOS TIDAL BENCH MARK
6. THE CONTRACTOR SHALL STAKE OUT ALL LAYOUTS OF PROPOSED WORK FOR APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCING WORK.
7. INFORMATION REGARDING THE LOCATION OF SURROUNDING STRUCTURES AND UTILITIES IS FURNISHED SOLELY FOR THE CONVENIENCE OF THE CONTRACTOR AND SHALL BE FIELD VERIFIED. THE CONTRACTOR SHALL CONDUCT ITS OWN INDEPENDENT EXAMINATION OF SITE CONDITIONS FOR THE PURPOSE OF BIDDING, FABRICATION, AND CONSTRUCTION ASSOCIATED WITH THE PROJECT. ANY RELIANCE UPON INFORMATION MADE AVAILABLE BY THE OWNER OR THE ENGINEER SHALL BE AT THE CONTRACTOR'S RISK
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS. PLANS SHALL NOT BE SCALED FOR DIMENSIONS.
9. CONSTRUCTION SHALL BE MADE FROM APPROVED SHOP DRAWINGS ONLY. ANY ERRORS OR DISCREPANCIES ON THE SHOP DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PORTION OF WORK.
10. NOTES, TYPICAL DETAILS, AND SCHEDULES APPLY TO ALL WORK UNLESS OTHERWISE NOTED. FOR CONDITIONS NOT SPECIFICALLY SHOWN, PROVIDE DETAILS OF SIMILAR NATURE. VERIFY APPLICABILITY BY SUBMITTING SHOP DRAWINGS FOR REVIEW.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL PROJECT DEMOLITION AND EXCESS MATERIAL IN ACCORDANCE WITH RHODE ISLAND, LOCAL, AND FEDERAL LAWS. AT THE END OF CONSTRUCTION, THE CONTRACTOR SHALL REMOVE ALL CONSTRUCTION DEBRIS AND SURPLUS MATERIAL FROM THE SITE. A THOROUGH INSPECTION OF THE WORK PERIMETER IS TO BE MADE AND ALL DISCARDED MATERIALS, BLOWN OR WATER CARRIED DEBRIS, SHALL BE COLLECTED AND REMOVED FROM THE SITE
12. THE CONTRACTOR SHALL PROTECT ALL ADJACENT STRUCTURES AND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF ALL DAMAGE TO ADJACENT STRUCTURES AND UTILITIES AT NO ADDITIONAL COST TO THE OWNER.
13. THE CONTRACTOR SHALL RESTORE ALL SURFACES EQUAL TO THEIR ORIGINAL CONDITION AFTER CONSTRUCTION IS COMPLETE. AREAS NOT DISTURBED BY CONSTRUCTION SHALL BE LEFT NATURAL. THE CONTRACTOR SHALL TAKE CARE TO PREVENT DAMAGE TO SHRUBS, TREES, AND OTHER LANDSCAPING OR NATURAL FEATURES, WHEREAS THE PLANS DO NOT SHOW ALL LANDSCAPING FEATURES. EXISTING CONDITIONS MUST BE VERIFIED BY THE CONTRACTOR IN ADVANCE OF THE WORK
14. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL VISIT THE SITE AND SHALL NOTIFY THE ENGINEER OF ANY ADDITIONAL UTILITIES, STRUCTURES, OR ANY OTHER ELEMENTS WHICH MAY IMPEDE WORK. UTILITY AND/OR STRUCTURE RELOCATIONS, IF NECESSARY, SHALL BE COORDINATED THROUGH THE OWNER'S ENGINEER.
15. THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND HAVE BEEN PLOTTED FROM THE LATEST AVAILABLE INFORMATION. THE UTILITY LOCATIONS ARE APPROXIMATE AND MAY NOT BE ALL INCLUSIVE. BEFORE COMMENCING SITE WORK IN ANY AREA, CONTACT "DIG SAFE" AT 1-888-DIG-SAFE TO ACCURATELY LOCATE ALL EXISTING UTILITIES, BOTH OVERHEAD AND UNDERGROUND, 72 HOURS PRIOR TO COMMENCING WORK. ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES SHALL BE THE CONTRACTOR'S RESPONSIBILITY. COSTS OF SUCH DAMAGE SHALL BE THE CONTRACTOR'S RESPONSIBILITY. NO EXCAVATION SHALL COMMENCE UNTIL ALL INVOLVED UTILITY COMPANIES AND/OR TOWN WHOSE FACILITIES MIGHT BE AFFECTED BY ANY WORK TO BE PERFORMED BY THE CONTRACTOR ARE PROPERLY NOTIFIED.

**DEMOLITION NOTES**

1. ALL DEMOLITION SHALL BE COORDINATED WITH THE OWNER PRIOR TO START OF WORK.
2. THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION OF STRUCTURES, PAVEMENT, CONCRETE MATERIALS, AND UTILITIES WITH APPROPRIATE PROPOSED SITE GENERAL, GRADING, UTILITY, AND LANDSCAPING PLANS.
3. ALL NOTED UTILITIES TO BE REMOVED AND DISPOSED OF, RELOCATED OR CAPPED REPRESENT ALL KNOWN SITE CONDITIONS TO BE DEMOLISHED. CONTRACTOR TO COORDINATE ALL UNFORESEEN CONDITIONS WITH THE OWNER, ENGINEER, AND/OR RESPECTIVE UTILITY COMPANIES PRIOR TO PROCEEDING WITH WORK.
4. WATER, SEWER, DRAINAGE, GAS, AND OTHER SITE UTILITIES SERVICING THE EXISTING FACILITIES ARE TO REMAIN ACTIVE THROUGHOUT CONSTRUCTION. THERE SHALL BE NO INTERRUPTION OF UTILITY SERVICE DURING CONSTRUCTION OPERATIONS WITHOUT APPROVAL FROM THE OWNER.
5. ALL UTILITIES REMOVED FROM THE SITE SHALL BE CUT AND CAPPED AT THE LIMIT OF DISTURBANCE UNLESS OTHERWISE NOTED.
6. PAVEMENT DEMOLITION SHALL BE SAWCUT AND DISPOSED OF PROPERLY.
7. REFER TO SPECIFICATIONS SECTION 02050 "DEMOLITION AND REMOVAL" FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
8. OIL STOCKPILES LEFT OVERNIGHT SHALL BE SURROUNDED ON THEIR PERIMETERS WITH SILT SOCK.
9. DISTURBED AREAS AND SLOPES SHALL NOT BE LEFT UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON. THE CONTRACTOR SHOULD PROVIDE APPROPRIATE STABILIZATION PRACTICES ON ALL DISTURBED AREAS AS SOON AS POSSIBLE BUT NOT MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY OR PERMANENTLY CEASED. TEMPORARY AREAS HAVING A SLOPE GREATER THAN 3:1 SHALL BE REINFORCED WITH EROSION BLANKETS OR APPROVED EQUAL UNTIL THE SITE IS PROPERLY STABILIZED. TEMPORARY SWALES MAY ALSO BE REQUIRED IF DETERMINED NECESSARY IN THE FIELD BY OWNER'S REPRESENTATIVE.
10. THE CONTRACTOR SHALL CONTAIN ALL SEDIMENT ONSITE. ALL EXITS FROM THE SITE WILL BE SWEEP AS NECESSARY INCLUDING ANY SEDIMENT TRACKING. PAVED AREAS SHALL BE SWEEP AS NEEDED TO REMOVE SEDIMENT AND POTENTIAL POLLUTANTS WHICH MAY ACCUMULATE DURING SITE WORK.
11. ACCUMULATED SEDIMENT SHALL BE REMOVED FROM ALL ESC MEASURES AND DISPOSED OF IN A PRE-APPROVED LOCATION BY THE CONTRACTOR.
12. DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS AS NECESSARY.

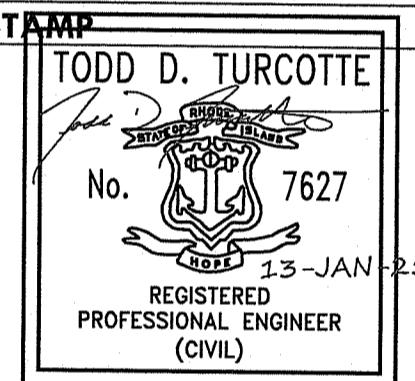
**EROSION & SEDIMENT CONTROL NOTES**

1. SOIL EROSION AND SEDIMENTATION CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH THE "RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK", AND THE NOTES AND DETAILS SHOWN IN THIS PLAN SET.
2. THE SITE CONSTRUCTION FOREMAN SHALL BE DESIGNATED AS THE ON-SITE PERSONNEL RESPONSIBLE FOR THE DAILY INSPECTION AND MAINTENANCE OF ALL ESC MEASURES AND SHALL IMPLEMENT ALL NECESSARY MEASURES TO CONTROL EROSION AND PREVENT SEDIMENT FROM LEAVING THE SITE.
3. THE CONTRACTOR SHALL INSTALL ALL ESC MEASURES AS SHOWN ON THE DESIGN PLANS AND AS DETERMINED NECESSARY IN THE FIELD BY OWNER'S REPRESENTATIVE BEFORE ANY CONSTRUCTION ACTIVITIES ARE TO BEGIN. THESE MEASURES SHALL BE CHECKED, MAINTAINED/REPLACED AS NECESSARY DURING THE ENTIRE CONSTRUCTION PERIOD OF THE PROJECT. SUCH MEASURES SHALL REPRESENT THE LIMIT OF WORK. WORKERS SHALL BE INFORMED THAT NO CONSTRUCTION ACTIVITY IS TO OCCUR BEYOND THE LIMIT OF WORK AT ANY TIME THROUGH THE CONSTRUCTION PERIOD.
4. THE CONTRACTOR SHALL SCHEDULE HIS/HER WORK TO ALLOW THE FINISHED SUBGRADE ELEVATIONS TO DRAIN PROPERLY WITHOUT PONDING. SPECIFICALLY, ALLOW WATER TO ESCAPE WHERE PROPOSED CURB MAY RETAIN RUNOFF PRIOR TO APPLICATION OF SURFACE PAVING. PROVIDE TEMPORARY POSITIVE DRAINAGE, AS REQUIRED, TO STABILIZED DISCHARGE POINTS. CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY UTILITY CONNECTIONS.
5. A MINIMUM SURPLUS OF 100 FEET OF EROSION CONTROL BARRIER (SILT FENCE &/OR SILT SOCK) SHALL BE STOCKPILED ONSITE AT ALL TIMES.
6. THE CONTRACTOR SHALL PROTECT THE ADJACENT AREA FROM SEDIMENTATION DURING PROJECT CONSTRUCTION OPERATIONS.
7. A CONSTRUCTION EXIT SHALL BE CONSTRUCTED TO SHED DIRT FROM CONSTRUCTION VEHICLE TIRES. THE CONSTRUCTION EXIT SHALL BE REPLACED/CLEANED AS NEEDED TO MAINTAIN ITS EFFECTIVENESS.
8. THE LIMIT OF ALL CLEARING, GRADING AND DISTURBANCES SHALL BE KEPT TO A MINIMUM WITHIN THE PROPOSED AREA OF CONSTRUCTION. THE CONTRACTOR SHALL PHASE THE SITE WORK IN A MANNER TO MINIMIZE AREAS OF EXPOSED SOIL.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MONITOR LOCAL WEATHER REPORTS DURING CONSTRUCTION AND PRIOR TO SCHEDULING EARTHMOVING OR OTHER CONSTRUCTION ACTIVITIES WHICH WILL LEAVE LARGE DISTURBED AREAS UNSTABILIZED. IF INCLEMENT WEATHER IS PREDICTED, THE CONTRACTOR SHALL USE THEIR BEST PROFESSIONAL JUDGEMENT AND SHALL BE RESPONSIBLE FOR ENSURING THAT NECESSARY EROSION CONTROL DEVICES ARE INSTALLED AND FUNCTIONING PROPERLY TO MINIMIZE EROSION FROM ANY IMPENDING WEATHER EVENTS.
10. SOIL ESC MEASURES SHALL BE INSPECTED AND MAINTAINED ON A WEEKLY BASIS AND AFTER EACH RAINFALL EVENT OF 0.25 INCH OR GREATER DURING CONSTRUCTION TO ENSURE THAT THE ESC MEASURES ARE INTACT AND FUNCTIONING PROPERLY. IDENTIFIED DEFICIENCIES SHALL BE CORRECTED IMMEDIATELY NO LATER THAN 24 HOURS AFTER IDENTIFICATION.
11. SOIL STOCKPILES LEFT OVERNIGHT SHALL BE SURROUNDED ON THEIR PERIMETERS WITH SILT SOCK.
12. DISTURBED AREAS AND SLOPES SHALL NOT BE LEFT UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON. THE CONTRACTOR SHOULD PROVIDE APPROPRIATE STABILIZATION PRACTICES ON ALL DISTURBED AREAS AS SOON AS POSSIBLE BUT NOT MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY OR PERMANENTLY CEASED. TEMPORARY AREAS HAVING A SLOPE GREATER THAN 3:1 SHALL BE REINFORCED WITH EROSION BLANKETS OR APPROVED EQUAL UNTIL THE SITE IS PROPERLY STABILIZED. TEMPORARY SWALES MAY ALSO BE REQUIRED IF DETERMINED NECESSARY IN THE FIELD BY OWNER'S REPRESENTATIVE.
13. THE CONTRACTOR SHALL CONTAIN ALL SEDIMENT ONSITE. ALL EXITS FROM THE SITE WILL BE SWEEP AS NECESSARY INCLUDING ANY SEDIMENT TRACKING. PAVED AREAS SHALL BE SWEEP AS NEEDED TO REMOVE SEDIMENT AND POTENTIAL POLLUTANTS WHICH MAY ACCUMULATE DURING SITE WORK.
14. ACCUMULATED SEDIMENT SHALL BE REMOVED FROM ALL ESC MEASURES AND DISPOSED OF IN A PRE-APPROVED LOCATION BY THE CONTRACTOR.
15. DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS AS NECESSARY.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING, RESTORING, AND REPAIRING ALL DAMAGE AS A RESULT OF UNAUTHORIZED WORK OR DISCHARGES AT NO ADDITIONAL COST TO THE OWNER.
17. THE LIMITS OF EROSION CONTROL BARRIERS SHALL BE MODIFIED OR EXPANDED AS FIELD CONDITIONS WARRANT.
18. ALL EROSION CONTROL BARRIERS SHALL BE INSPECTED AT LEAST ONCE PER WEEK AND AFTER EACH STORM EVENT OF 0.25 INCH OR GREATER. ANY DAMAGED AREAS OF THE EROSION CONTROL BARRIER SHALL BE REPAIRED WITHIN 24 HOURS OF DISCOVERY.
19. DISCHARGE OF TURBID WATER TO ANY WATERWAY IS PROHIBITED.
20. ALL ON-SITE AND OFF-SITE DRAINAGE STRUCTURES AND PIPING SHALL BE JETTED AND CLEANED UPON COMPLETION OF THE SITE WORK.

**CONSULTANT**



**SEAL / SIGNATURE**



**PROJECT:**

**Cunliff Lake Boardwalk Improvements at Roger Williams Park**

1000 Elmwood Avenue  
A.P. 90, Lot 157  
Providence, RI 02905

**REVISIONS:**

Date	Issued For:
1/13/2025	Permit Set
- - -	- - -
- - -	- - -

**NORTH ARROW**

**SCALE**

**DRAWING INFO**

DATE ISSUED: 1/13/2025  
PROJECT NO: RWBD.21.01  
DRAWN BY: KAD  
CHECKED BY: TDT

**SHEET TITLE**

**Cover Sheet**

JAN 16 2025

90% RIDEM PERMIT SUBMISSION  
NOT FOR CONSTRUCTION

**LAYOUT NOTES**

- ALL LINES AND DIMENSIONS ARE PARALLEL OR PERPENDICULAR TO THE LINES FROM WHICH THEY ARE MEASURED UNLESS OTHERWISE INDICATED.
- STORAGE AREAS FOR CONTRACTOR'S EQUIPMENT AND MATERIALS SHALL BE ON AND WITHIN LIMITS OF WORK AS SHOWN ON THE PLANS AND AS APPROVED BY THE OWNER'S REPRESENTATIVE.
- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND REPORT ANY DISCREPANCIES IN THE PLAN TO THE OWNER'S REPRESENTATIVE PRIOR TO STARTING WORK.
- ALL LAYOUTS FOR WALKS AND PATHS SHALL BE ADEQUATELY STAKED BY THE CONTRACTOR AND APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
- ALL PLACEMENT OF SITE FURNISHINGS, BOULDERS, PLAY STRUCTURES AND OUTDOOR FITNESS EQUIPMENT TO BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

**PLANTING NOTES**

- ALL NEW PLANT MATERIALS SHALL CONFORM TO THE MINIMUM GUIDELINES ESTABLISHED FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. IN ADDITION, ALL NEW PLANT MATERIAL FOR THE PROJECT SHALL BE OF SPECIMEN QUALITY.
- ALL NEW PLANTS TO BE BALLED AND BURLAPPED OR CONTAINER GROWN, UNLESS OTHERWISE NOTED ON THE PLANT LIST.
- THE CONTRACTOR SHALL SUPPLY ALL NEW PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON THE DRAWINGS.
- ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE, AND ONLY AFTER WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT.
- ALL NEW PLANTS SHALL BE TAGGED AND APPROVED BY THE LANDSCAPE ARCHITECT AT THE NURSERY PRIOR TO DIGGING OR DELIVERY TO THE SITE.
- CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING UTILITY LINES PRIOR TO PLANTING AND SHALL REPORT ANY CONFLICTS TO THE LANDSCAPE ARCHITECT.
- STAKE LOCATIONS OF ALL PROPOSED PLANTING FOR APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO THE COMMENCEMENT OF PLANTING. INDIVIDUAL STAKES SHALL BE PLACED FOR TREES AND SHRUBS. EDGE OF PLANTING BEDS SHALL BE PAINTED. NOTIFY LANDSCAPE ARCHITECT 24 HOURS PRIOR TO DESIRED APPROVAL.
- ALL NEW PLANTS SHALL BE SUPPLIED AND INSTALLED DURING THE PERIODS OF APRIL 1 - JUNE 15 AND/OR SEPTEMBER 1 - NOVEMBER 15 PER SPECIFICATIONS.
- PREPARE ALL INDIVIDUAL TREE PITS AND SHRUB PLANTING BEDS TO A MINIMUM DEPTH OF EIGHTEEN INCHES (18") WITH SPECIFIED PLANTING MIX: 50% SCREENED TOPSOIL, 40% EXISTING SOIL AND 10% COMPOST. BLEND COMPOST INTO TOP 4" OF SOIL. PLANTING MIX SHALL BE FREE OF LUMPS, STONES, PLANTS, ROOTS, AND OTHER FOREIGN MATTER.
- ALL SHRUB BEDS AND INDIVIDUAL TREE PITS SHALL RECEIVE THREE (3) INCHES OF BARK MULCH PER SPECIFICATIONS. PERENNIAL AND GROUND COVER BEDS SHALL RECEIVE TWO INCHES (2"). PROVIDE LANDSCAPE ARCHITECT WITH SAMPLE FOR APPROVAL.
- ALL BURLAP, TWINE AND WIRE SHALL BE COMPLETELY REMOVED OR CUT AWAY AT TIME OF INSTALLATION.
- PRUNE TREES IN ACCORDANCE WITH THE SPECIFICATIONS.
- PLANT WARRANTY SHALL BE FOR ONE FULL GROWING SEASON FROM THE TIME OF SUBSTANTIAL COMPLETION.
- LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL DAMAGED, STOLEN, DEAD, DECLINING OR LOST MATERIAL UNTIL COMPLETION OF MAINTENANCE PERIODS OR GUARANTEE PERIODS.
- IF NO IRRIGATION SYSTEM IS PLANNED, AN APPROPRIATE WATERING SCHEDULE SHALL BE ESTABLISHED BY THE LANDSCAPE CONTRACTOR FOR ALL PLANT MATERIAL BASED UPON PLANT SPECIES REQUIREMENTS AND PROVIDED IN WRITING TO THE LANDSCAPE ARCHITECT AND OWNER FOR REVIEW AND APPROVAL. THE APPROVED SCHEDULE SHOULD BE FOLLOWED UNTIL COMPLETION OF PLANT MAINTENANCE PERIODS OR WARRANTY PERIODS.
- ALL VEGETATION AND DEBRIS SHALL BE REMOVED FROM PROPOSED PLANTING AREAS PRIOR TO PLANTING AND BACKFILLING. CONTRACTOR SHALL REMOVE ALL WEEDS AND DEBRIS FROM SITE AS WORK PROGRESSES AND UNTIL COMPLETION OF PLANT MAINTENANCE PERIODS OR WARRANTY PERIODS.
- ALL AREAS TO BE SEEDED OR SODDED SHALL RECEIVE SIX INCHES (6") OF LOAM, MEASURED AFTER INSTALLATION, PRIOR TO SEEDING.
- ALL EXISTING LAWN AREAS DESIGNATED TO REMAIN SHALL BE AERATED, FERTILIZED AND OVERSEEDED, AS DIRECTED BY THE LANDSCAPE ARCHITECT.
- IN ADDITION TO LOCATIONS DEFINED FOR SEED ON THE PLANTING PLAN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEEDING ANY DISTURBED AREAS.
- A DETAILED PLANT MAINTENANCE MANUAL SHALL BE ESTABLISHED BY THE LANDSCAPE CONTRACTOR FOR ALL PLANT MATERIAL BASED UPON PLANT SPECIES REQUIREMENTS AND PROVIDED IN WRITING TO THE LANDSCAPE ARCHITECT AND OWNER FOR REVIEW AND APPROVAL. INFORMATION THEREIN SHALL INCLUDE REQUIRED PRUNING SCHEDULE, FERTILIZING AND PROPOSED INTEGRATED PEST MANAGEMENT (IPM) AS NECESSARY. THE APPROVED MAINTENANCE SHOULD BE FOLLOWED UNTIL COMPLETION OF PLANT MAINTENANCE PERIODS OR WARRANTY PERIODS.
- LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING CLOSE COORDINATION WITH OWNER, GENERAL CONTRACTOR, RELATED SUBCONTRACTORS, LANDSCAPE ARCHITECT, AND ALL SITE WORK RELATED ITEMS.

**SPILL PREVENTION AND CONTROL NOTES**

- SPILLS AND LEAKS SHALL BE AVOIDED THROUGH FREQUENT INSPECTION OF EQUIPMENT AND MATERIAL STORAGE AREAS, AND SHALL BE REMEDIATED AND REPAIRED AS NECESSARY.
- HAZARDOUS MATERIAL STORAGE TO BE PLACED ONLY IN DESIGNATED AREAS. MATERIAL STORAGE AREAS SHALL BE ROUTINELY INSPECTED FOR LEAKY CONTAINERS, OPEN CONTAINERS, OR IMPROPER STORAGE TECHNIQUES THAT MAY LEAD TO SPILLS OR LEAKS.
- APPROPRIATE SPILL REMEDIATION PROCEDURES AND SUPPLIES SHALL BE READILY AVAILABLE ON-SITE. TOOLS AND SUPPLIES SHALL BE CLEARLY MARKED SO THAT ALL PERSONNEL CAN LOCATE AND ACCESS THESE SUPPLIES.
- SPILL REMEDIATION SHALL BE PERFORMED IMMEDIATELY. CONTRACTOR SHALL FOLLOW PROPER RESPONSE PROCEDURES IN ACCORDANCE WITH ANY APPLICABLE REGULATORY REQUIREMENTS.
- AT NO TIME SHALL SPILLS BE DIVERTED TOWARD STORM DRAINS OR TO ANY WATERWAY.
- EQUIPMENT/VEHICLE FUELING AND REPAIR/MAINTENANCE OPERATIONS SHALL TAKE PLACE ONLY WITHIN DESIGNATED STAGING AREAS.
- THE EQUIPMENT OPERATOR SHALL FULLY MONITOR FUELING OPERATIONS TO EQUIPMENT AND VEHICLES AT ALL TIMES.
- ANY SPILLAGE SHALL BE IMMEDIATELY CLEANED WITH SPILL KITS KEPT ON SITE.
- IN THE CASE OF SMALL AMOUNTS OF SOIL CONTAMINATION, SUCH SOIL SHALL BE PLACED IN 55 GALLON DRUMS FOR DISPOSAL BY A LICENSED HAZARDOUS WASTE HAULER.
- IN THE CASE OF A LARGE AMOUNT OF SOIL CONTAMINATION OR DISCHARGE TO THE WATERWAY, RHODE ISLAND DEM AND APPLICABLE AGENCIES SHALL BE NOTIFIED AS REQUIRED. A HAZARDOUS WASTE REMEDIATION FIRM SHALL BE CONTRACTED TO REMOVE AND DISPOSE OF THE CONTAMINATED MATERIAL OR CONTAIN THE SPILL AT NO ADDITIONAL COST.

**GRADING & UTILITY NOTES**

- ALL EXISTING CONDITIONS SHOWN SHALL BE CONSIDERED APPROXIMATE AND ARE BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK WHICH WOULD BE AFFECTED. NO FIELD ADJUSTMENTS IN THE LOCATION OF SITE ELEMENTS SHALL BE MADE WITHOUT THE ENGINEERS APPROVAL.
- THE WORK PERFORMED AND ALL MATERIALS FURNISHED SHALL CONFORM WITH THE LINES AND GRADES ON THE PLANS AND SITE WORK SPECIFICATIONS, UNLESS OTHERWISE DIRECTED.
- AT ALL LOCATIONS WHERE EXISTING CURBING OR PAVEMENT ABUT NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH EDGE. BLEND NEW PAVEMENT AND CURBS SMOOTHLY INTO EXISTING BY MATCHING LINES, GRADES AND JOINTS.
- ALL EXISTING AND PROPOSED UTILITY COVERS, GRATES, ETC. SHALL BE ADJUSTED TO BE FLUSH WITH THE SURROUNDING SURFACE OR PAVEMENT FINISH GRADE OF THIS CONTRACT. RIM ELEVATIONS OF STRUCTURES AND MANHOLES ARE APPROXIMATE. FINAL ELEVATIONS ARE TO BE SET FLUSH AND CONSISTENT WITH THE PROPOSED FINAL GRADES.
- THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION OF PRIVATE UTILITIES BY THE UTILITY COMPANIES, AS REQUIRED, INCLUDING OBTAINING ALL PERMITS. ALL COSTS AND FEES BY PRIVATE UTILITY COMPANIES TO BRING SERVICE TO THE SITE SHALL BE PAID FOR BY THE CONTRACTOR.
- THE CONTRACTOR SHALL PROTECT ALL UNDERGROUND DRAINAGE, SEWER AND UTILITY FACILITIES FROM EXCESSIVE VEHICULAR LOADS DURING CONSTRUCTION. ANY DAMAGE TO THESE FACILITIES RESULTING FROM CONSTRUCTION LOADS WILL BE RESTORED TO ORIGINAL CONDITION AT NO COST TO THE OWNER.
- DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES BY PROVIDING TEMPORARY SUPPORTS OR SHEETING AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
- SITE GRADES SHALL CONFORM WITH ADA REQUIREMENTS.
- CONTRACTOR IS REQUIRED TO APPLY FOR, OBTAIN, AND PAY ALL FEES ASSOCIATED WITH CONSTRUCTION PHASE PERMITS. PERMITS MAY INCLUDE, BUT NOT LIMITED TO:

- RHODE ISLAND STATE BUILDING OFFICIAL (INCLUDING BUT NOT LIMITED TO BUILDING, PLUMBING, FIRE, ELECTRICAL, AND MECHANICAL)
- CITY OR PROVIDENCE DEPARTMENT OF PUBLIC WORKS PERMITS

**CAST-IN-PLACE/PRECAST CONCRETE NOTES**

- CONCRETE WORK SHALL CONFORM TO THE LATEST EDITION OF ACI 318 - "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" AND THE RHODE ISLAND STATE BUILDING CODE.
- ALL PRECAST CONCRETE SHALL CONFORM TO THE LATEST EDITION OF THE PCI OR FABRICATOR FOR PRECAST/FABRICATED ELEMENTS [2018 INTERNATIONAL BUILDING CODE (IBC) SECTIONS 1704.2.5-1704.2.5.1]
- CONCRETE SHALL BE PLACED UNDER THE SUPERVISION OF THE APPROVED TESTING AGENCY.
- CONCRETE SHALL BE NORMAL WEIGHT, WITH TYPE II CEMENT, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 5,000 PSI-TYPICAL. ALL CONCRETE DESIGN MIXES SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.
- ALL CONCRETE SHALL BE AIR-ENTRAINED WITH AN AIR CONTENT OF 6% +/- 1%.
- ALL EXPOSED EDGES SHALL BE CHAMFERED 3/8" x 45 DEGREES UNLESS NOTED OTHERWISE.
- WHEN CONCRETE IS PLACED AGAINST PREVIOUSLY HARDENED CONCRETE, THE INTERFACE SHALL BE CLEAN, FREE OF LAITANCE AND INTENTIONALLY ROUGHENED OR RAKED TO FULL AMPLITUDE OF APPROXIMATELY 1/4 INCH.
- CONCRETE WASHOUT OPERATIONS TO OR WITHIN WATERWAY MUST NOT TAKE PLACE AT ANY TIME. ANY CEMENT OR CONCRETE DEBRIS LEFT IN THE DISTURBED AREA SHALL BE REMOVED BY HAND AT THE CONTRACTOR'S EXPENSE.
- ENGINEER TO APPROVE EXCAVATION ON FIRM SUBSTRATUM AND UNSATISFACTORY MATERIAL TO BE REMOVED.
- SPECIAL INSPECTION OF FABRICATED ITEMS: COMPLETE SPECIAL INSPECTIONS OF FABRICATED ITEMS PER SECTION 1704.2.5 AND 1704.2.5.1 OF THE 2018 IBC.

**REINFORCING STEEL NOTES**

- REINFORCING BARS SHALL BE DETAILED IN ACCORDANCE WITH ACI 315 - "DETAILS AND DETAILED OF CONCRETE REINFORCEMENT" AND THE RHODE ISLAND STATE BUILDING CODE.
- ALL PRECAST CONCRETE REINFORCING STEEL SHALL CONFORM TO THE LATEST EDITION OF THE PCI OR FABRICATOR FOR PRECAST/FABRICATED ELEMENTS [1704.2.5-17054.2.5.1].
- COMPLETE SHOP DRAWINGS AND SCHEDULES OF ALL REINFORCING STEEL SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF THAT PORTION OF THE WORK. ALL ACCESSORIES MUST BE SHOWN ON THE SHOP DRAWINGS.
- REINFORCING BARS SHALL BE GALVANIZED AND CONFORM TO ASTM A615 OR A706 (WELDABLE) GRADE 60.
- ALL SUPPORTS SUCH AS CHAIRS, BOLSTERS, SPACERS, BLOCKS AND HANGERS SHALL BE OF NON-CORROSIVE MATERIAL. BLOCKS SHALL BE MADE OF 5,000 PSI (UN-REINFORCED) CONCRETE.
- UNLESS NOTED ON THE DRAWINGS, THE MINIMUM CONCRETE PROTECTION (CLEAR COVER) FOR CAST-IN-PLACE CONCRETE COVER SHALL BE AS FOLLOWS:
  - FORMED CONCRETE EXPOSED TO EARTH OR WATER: 3"
  - CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 4"
- MINIMUM REINFORCEMENT DEVELOPMENT LENGTH SHALL BE IN ACCORDANCE WITH ACI 318 FOR CLASS B LAPS UNLESS NOTED OTHERWISE.
- ALL REINFORCEMENT SHALL BE CONTINUOUS THROUGH CONSTRUCTION JOINTS, AROUND CORNERS, AND LAPPED AT NECESSARY SPLICES OR HOOKED AT DISCONTINUOUS ENDS

**DESIGN CRITERIA**

SNOW LOADS (2018 IBC SECTION 1608, 2021 RHODE ISLAND STATE BUILDING CODE TABLE 1608.1)  
SNOW LOAD: P<sub>s</sub> = 30 PSF

WIND LOADS (2018 IBC SECTION 1609, 2021 RHODE ISLAND STATE BUILDING CODE TABLE 1608.1)  
BASIC WIND SPEED = 115 MPH

LIVE LOADS (ASCE/SEI 7-16 MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES TABLE 4.3-1)  
PEDESTRIAN LOADING = 100 PSF

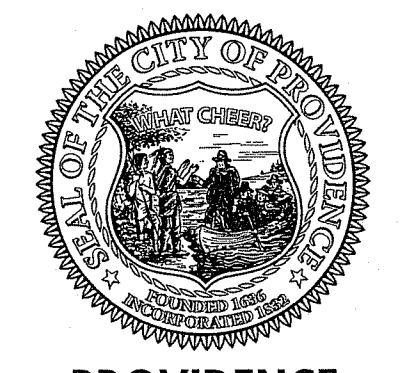
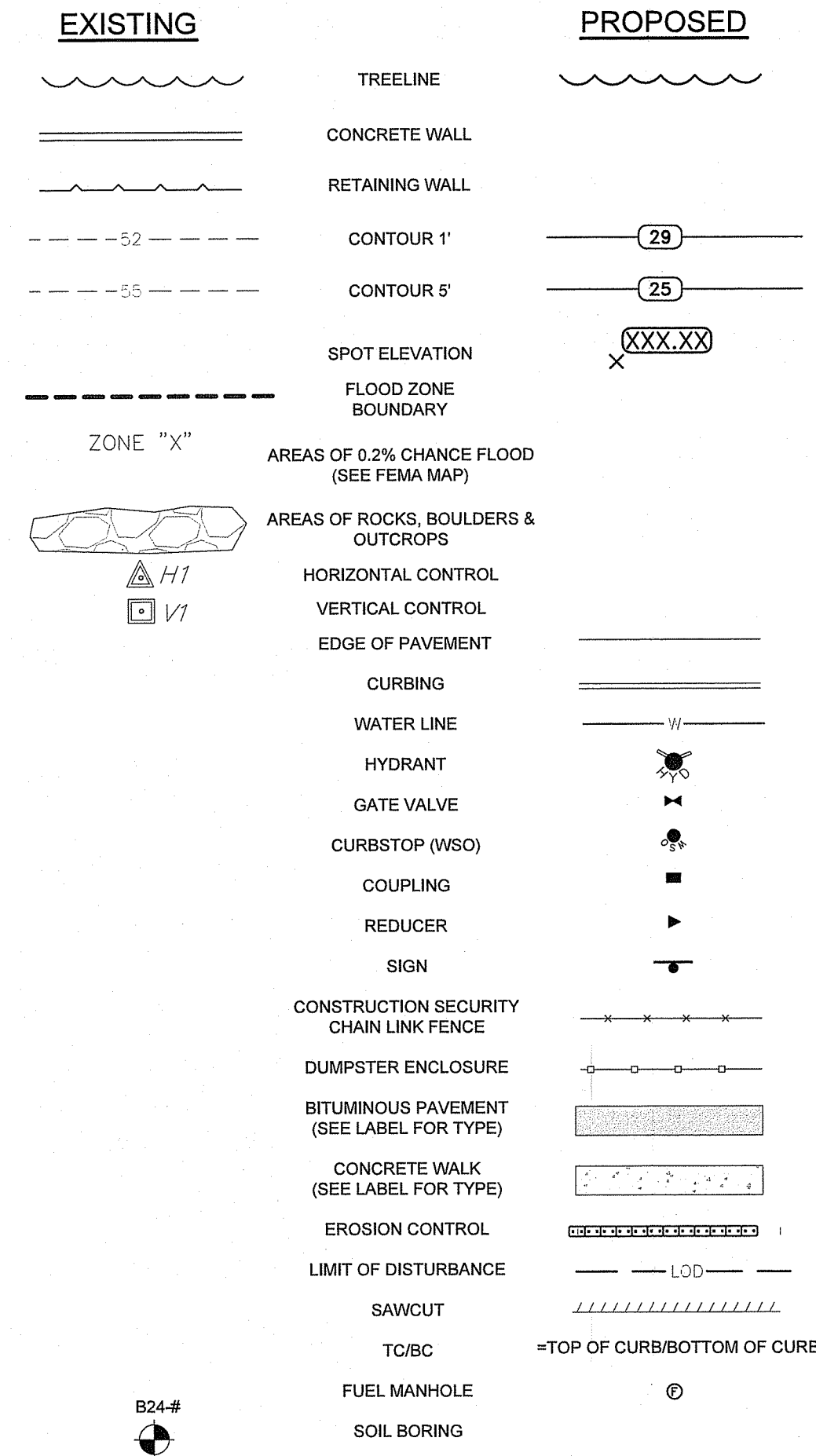
EARTHQUAKE LOADS (2018 IBC SECTION 1614)  
MAPPED ACCELERATIONS: S<sub>DS</sub> = 0.176g  
S<sub>D1</sub> = 0.062g

SITE CLASS D, F<sub>o</sub> = 1.6 S<sub>MS</sub> = 0.282g  
F<sub>v</sub> = 2.4 S<sub>M1</sub> = 0.149g

DESIGN SPECTRAL RESPONSE ACCELERATIONS AT 5% DAMPENING, S<sub>DS</sub> = 0.188g  
S<sub>D1</sub> = 0.099g

D1 GENERAL DESIGN RESPONSE SPECTRAL ACCELERATION, PGA = 0.172g  
SEISMIC DESIGN CATEGORY B

**LEGEND**



**PROVIDENCE PARKS DEPARTMENT**  
DALRYMPLE BOATHOUSE  
ROGER WILLIAMS PARK  
PROVIDENCE, RI 02905

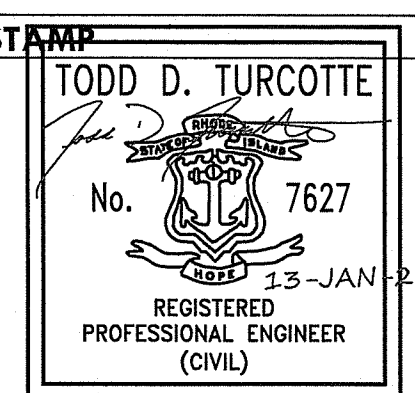


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CONSULTANT



SEAL / SIGNATURE



PROJECT:

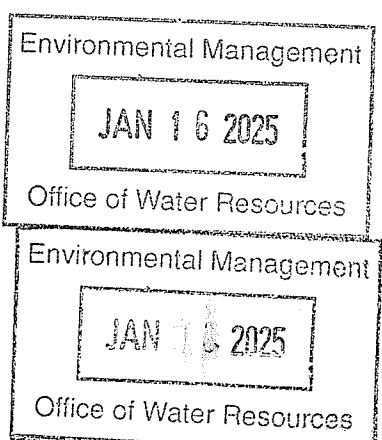
**Cunliff Lake Boardwalk Improvements at Roger Williams Park**  
1000 Elmwood Avenue  
A.P. 90, Lot 157  
Providence, RI 02095

REVISIONS:

Date	Issued For:
1/13/2025	Permit Set
-	-
-	-

NORTH ARROW

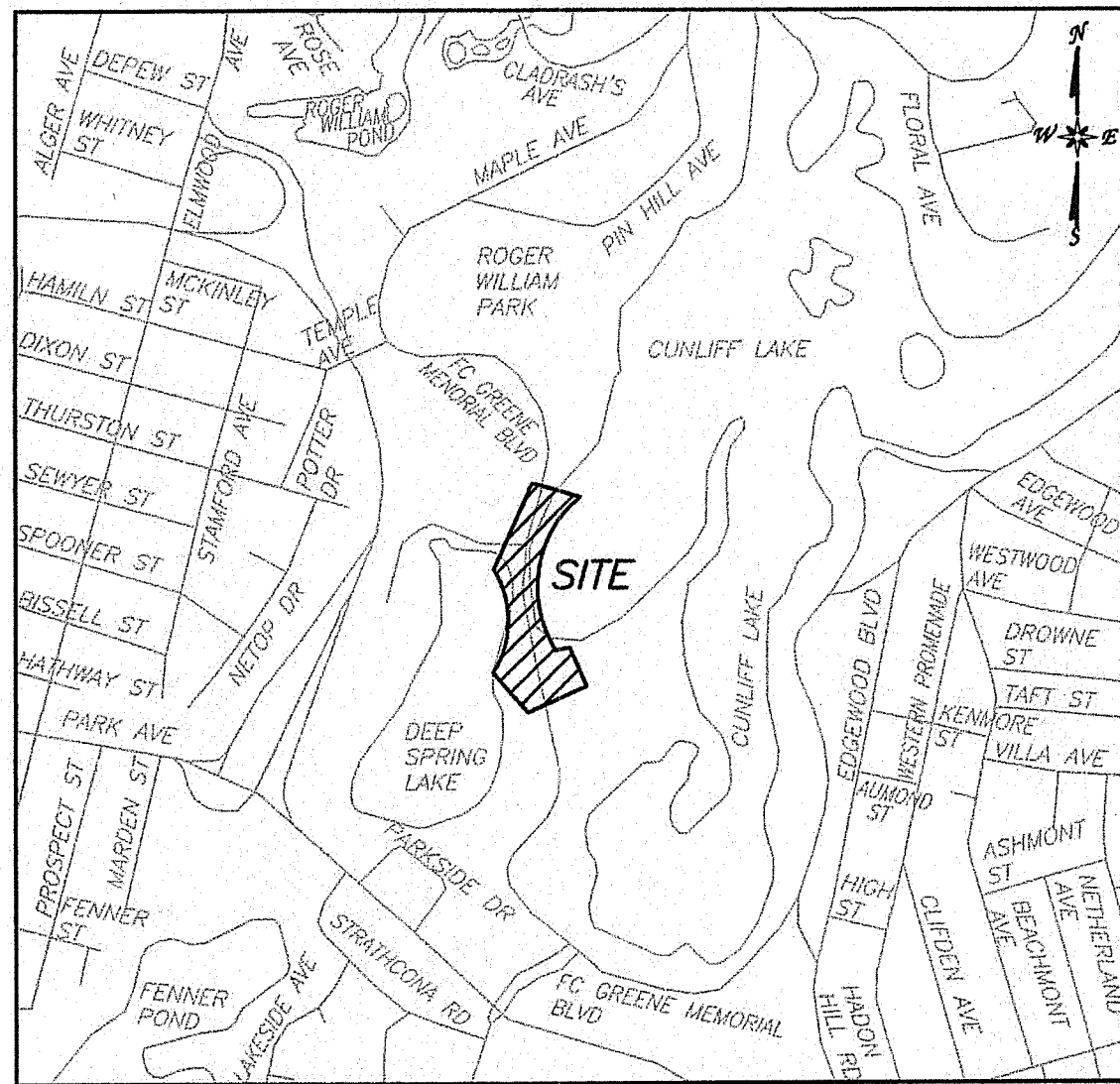
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED: APR 17 2025 FILE # 25-001  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
*Christopher D. Sweeney*



DRAWING INFO  
DATE ISSUED: 1/13/2025  
PROJECT NO: RWBD.21.01  
DRAWN BY: KAD  
CHECKED BY: TDT

SHEET TITLE  
**GENERAL NOTES**

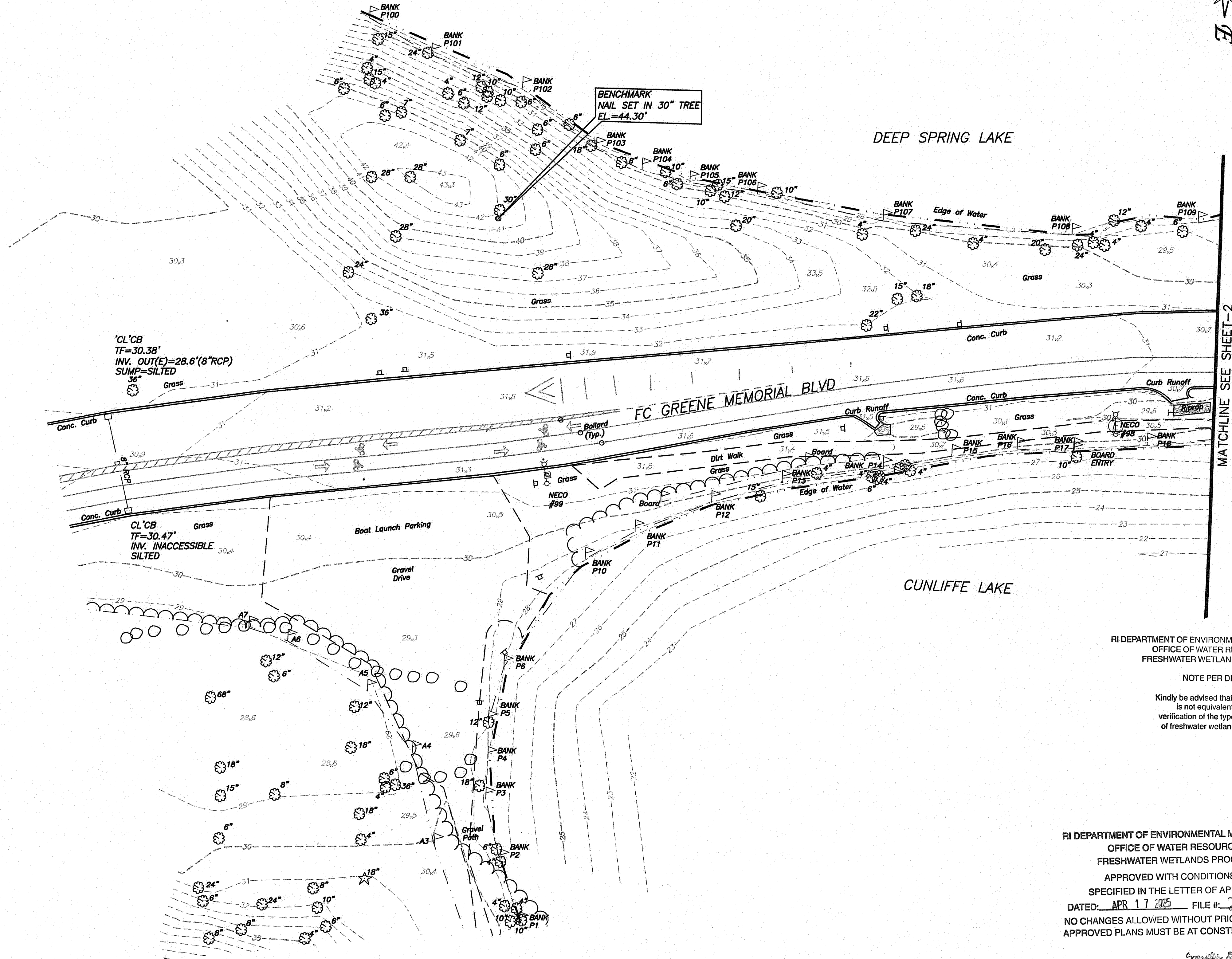
90% RIDEM PERMIT SUBMISSION  
NOT FOR CONSTRUCTION



LOCATION MAP  
SCALE: 1"=750'

**SURVEY NOTES:**

- 1) THIS SURVEY AND MAP HAS BEEN PREPARED TO HORIZONTAL ACCURACY CLASS III AND A TOPOGRAPHIC ACCURACY OF CLASS T-2 AND IS INTENDED TO BE USED TO DEPICT EXISTING CONDITIONS.
- 2) NORTH ORIENTATION AND COORDINATES REFER TO RHODE ISLAND STATE PLANE COORDINATE SYSTEM NAD 83.
- 3) ELEVATIONS ARE BASED ON NAVD 88 OBTAINED UTILIZING RTK GPS METHODS, OBSERVATIONS MADE ON 03/26/2024.
- 4) PARCEL IS IN ZONE A FLOOD HAZARD ZONES AS DEPICTED ON THE FLOOD INSURANCE RATE MAP, TOWN OF CRANSTON, RHODE ISLAND, PANEL 318 OF 451, COMMUNITY PANEL NUMBER 44007C0318H, MAP REVISED OCTOBER 02, 2015 BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY.
- 5) NOT ALL IMPROVEMENTS ARE SHOWN.



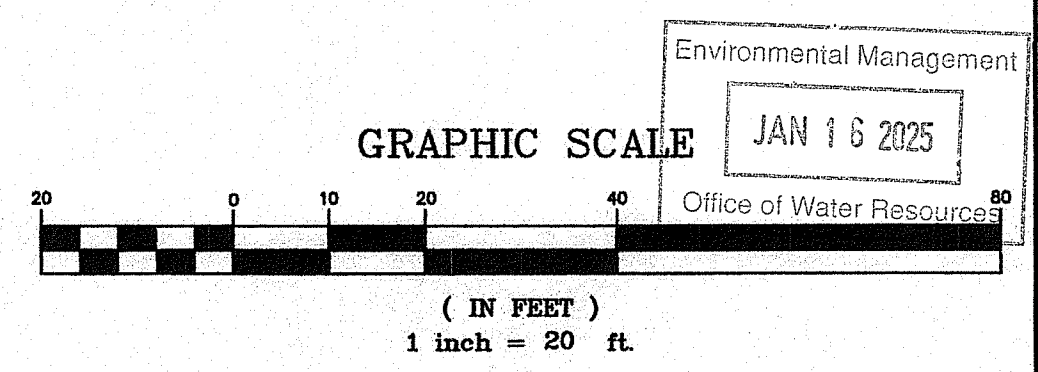
MATCHLINE SEE SHEET-2

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:  
Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED: APR 17 2025 FILE #: 25-0015  
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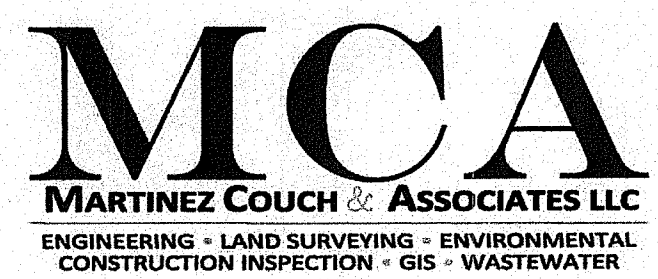
*Ernestine D. Senescha*



NOTES:  
INDICATED UNDERGROUND UTILITIES ARE BASED ON ACTUAL FIELD LOCATIONS AND AVAILABLE NOTES AND MAPPING BY OTHERS. THE LOCATIONS ARE APPROXIMATE AND ALL UTILITIES MAY NOT BE SHOWN. PRIOR TO ANY CONSTRUCTION THE CONTRACTOR SHALL HAVE ALL UTILITIES MARKED ON THE GROUND.

**SYMBOLS LEGEND**

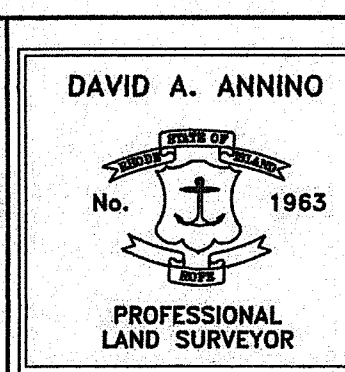
● Benchmark	△ Wetland Flag
□ Monument	○ Rock/Boulder
⊕ Utility Pole w/ Light	- - - 100 Contour Line
⊙ Deciduous Tree	101.8 Spot Grade
☆ Coniferous Tree	— Guardrail
⊙ Bush	— Stone Wall
○ Post/Bollard	— Treeline
⊕ Sign	— Underground Drain Line
⊕ Handhole	— Edge of Lake



1084 Cromwell Avenue, Suite A-2  
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ROGER WILLIAMS PARK  
CUNLIFF LAKE BOARDWALK  
PROVIDENCE, RHODE ISLAND  
PREPARED FOR: PARE CORPORATION

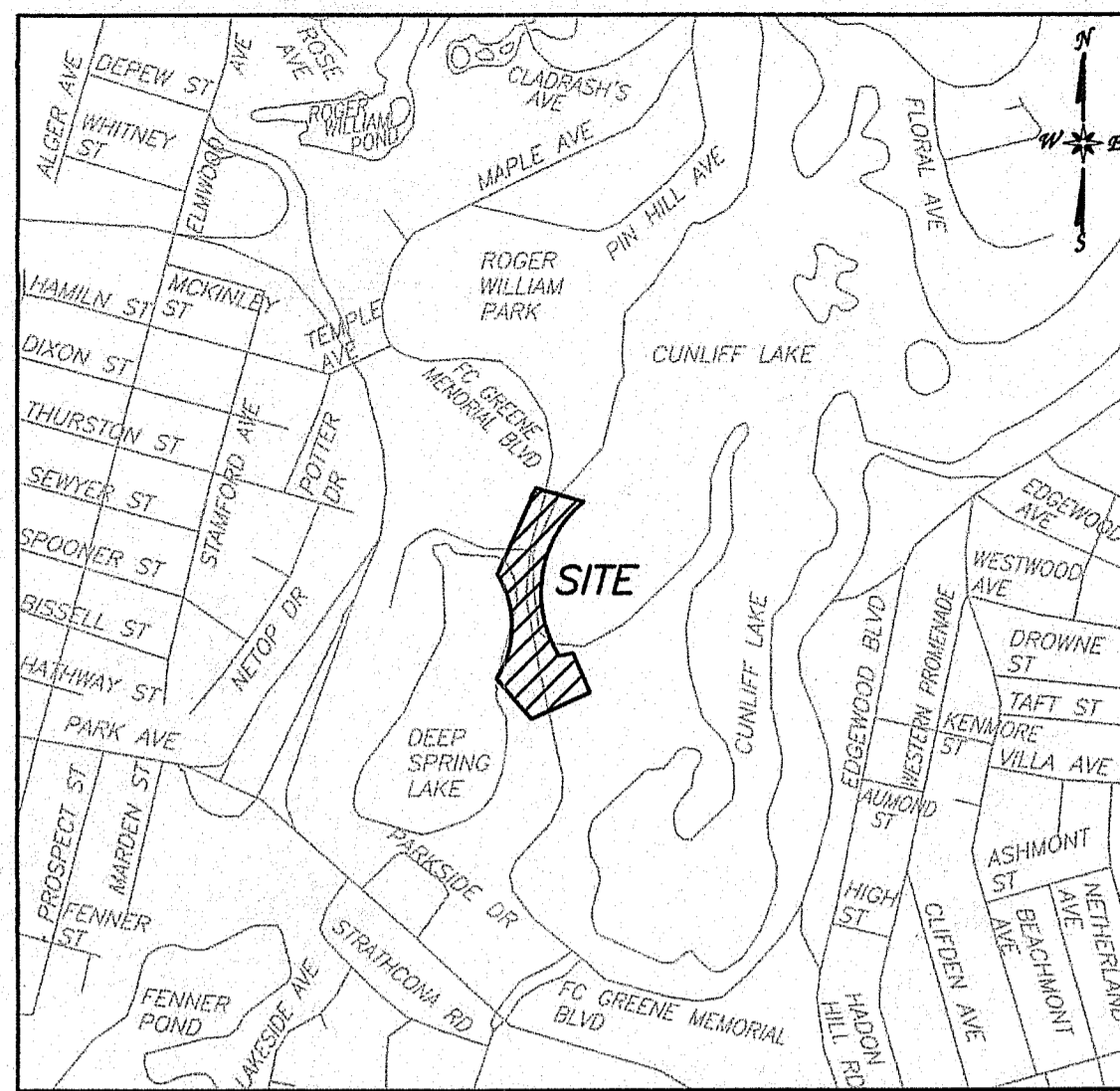
THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO SECTION 9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON NOVEMBER 25, 2015, AS FOLLOWS:  
TOPOGRAPHIC SURVEY - CLASS T-2  
THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS: TO DEPICT EXISTING TOPOGRAPHIC CONDITIONS.  
*DAVID A. ANNING* 4/11/2024  
DAVID A. ANNING, P.L.S. #1963, COA #LS-A711 DATE  
THIS MAP IS NOT VALID WITHOUT A LIVE SIGNATURE AND SEAL



NO.	DATE	REVISIONS	BY	CHK	APPV

DRAWN BY: TDL CHECKED BY: JPB SCALE: 1"=20' DATE: 04-11-2024

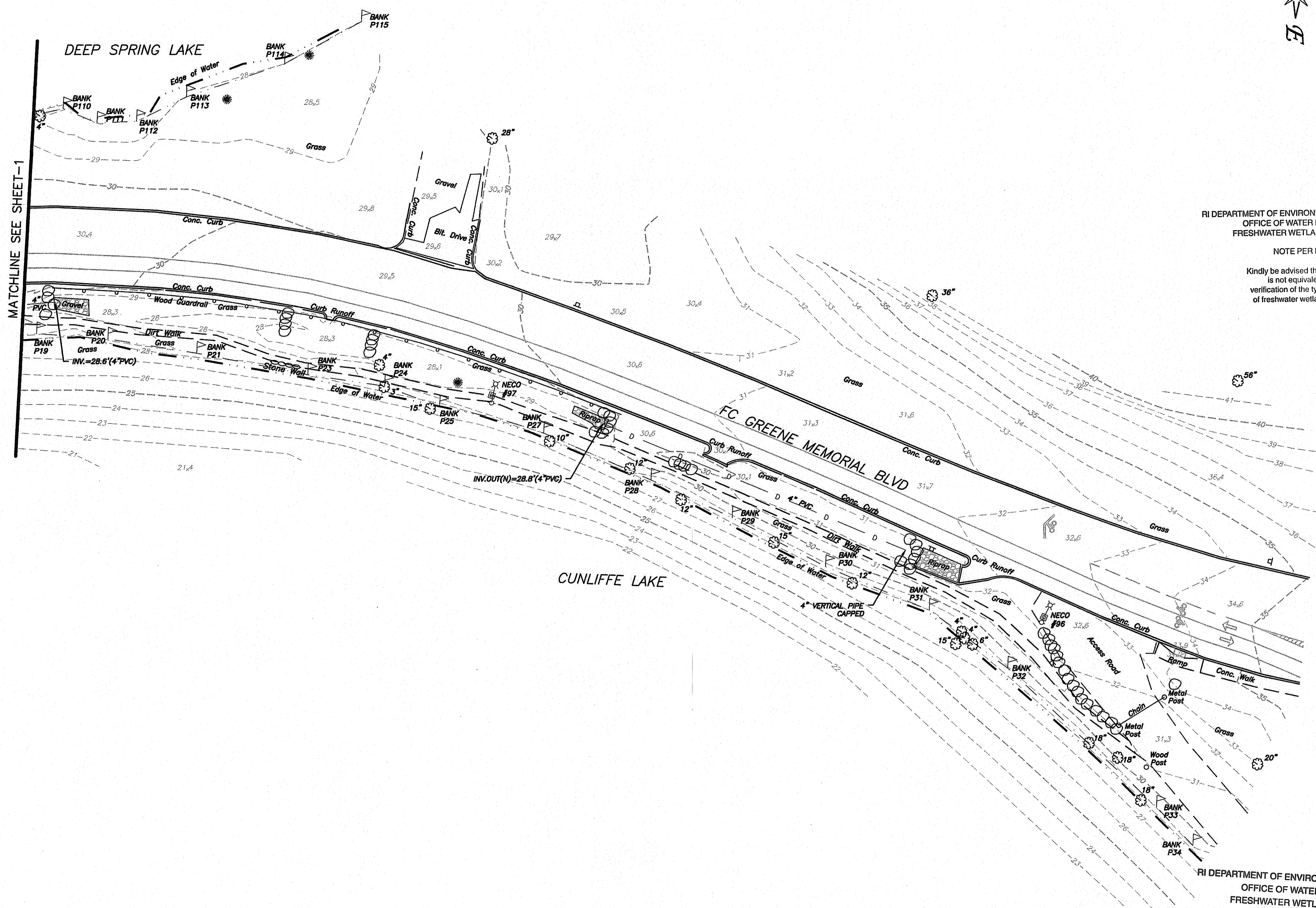
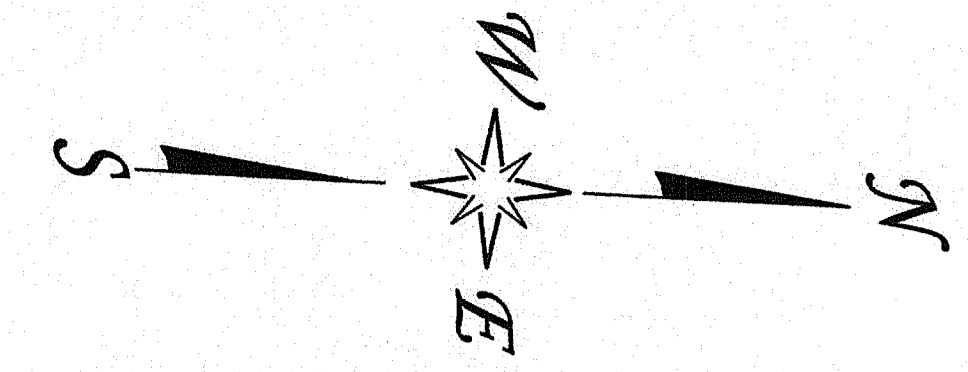
DATA ACCUMULATION PLAN		
TOPOGRAPHIC SURVEY		
JOB NO.	DRAWING NUMBER	SHEET
2023-307	2023-307 Cunliff Boardwalk RWP.DWG	1 OF 2



LOCATION MAP  
SCALE: 1"=750'

**SURVEY NOTES:**

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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:  
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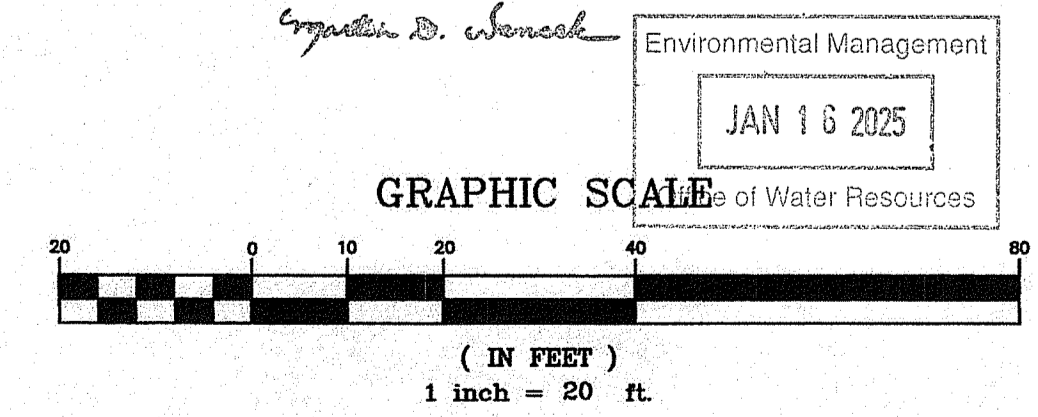
**SYMBOLS LEGEND**

● Benchmark	▽ Wetland Flag
□ Monument	○ Rock/Boulder
⊕ Utility Pole w/ Light	- - - 100 - - - Contour Line
⊙ Deciduous Tree	101.8 Spot Grade
☆ Coniferous Tree	— — — Guardrail
● Bush	— — — Stone Wall
○ Post/Bollard	— — — Treeline
⊠ Sign	— — — Underground Drain Line
⊞ Handhole	— · — · — Edge of Lake

NOTES:  
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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM

APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED: APR 17 2025 FILE #: 25-005  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
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Telephone: (860) 436-4364  
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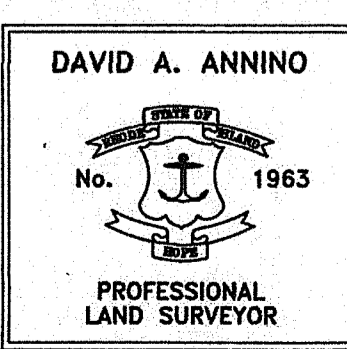
**ROGER WILLIAMS PARK  
CUNLIFF LAKE BOARDWALK**  
PROVIDENCE, RHODE ISLAND

PREPARED FOR: PARE CORPORATION

THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO SECTION 9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON NOVEMBER 25, 2015, AS FOLLOWS:

TOPOGRAPHIC SURVEY - CLASS T-2  
THE PURPOSE OF THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS: TO DEPICT EXISTING TOPOGRAPHIC CONDITIONS.

DAVID A. ANNINO, P.L.S. #1963, COA #LS-A711 DATE 4/11/2024  
THIS MAP IS NOT VALID WITHOUT A LIVE SIGNATURE AND SEAL



NO.	DATE	REVISIONS	BY	CHK	APPV

DRAWN BY: TDL CHECKED BY: JPB SCALE: 1"=20' DATE: 04-11-2024

**DATA ACCUMULATION PLAN**

**TOPOGRAPHIC SURVEY**

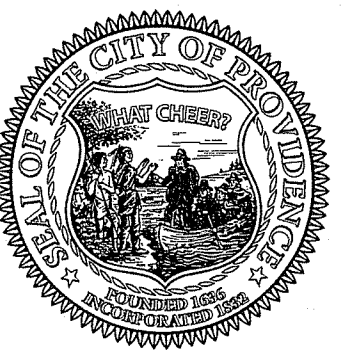
JOB NO.	DRAWING NUMBER	SHEET
2023-307	2023-307 Cunliff Broadway RWP.DWG	2 OF 2



PROJECT SITE

PARK PROPERTY LINE

**AERIAL SITE PLAN**  
SCALE: 1:500

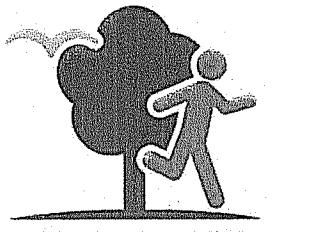


**PROVIDENCE  
PARKS DEPARTMENT**  
DALRYMPLE BOATHOUSE  
ROGER WILLIAMS PARK  
PROVIDENCE, RI 02905

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:

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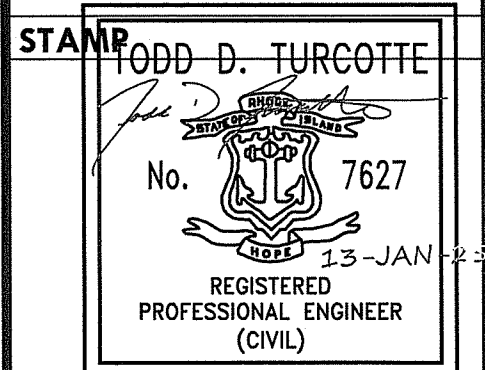
**PROVIDENCE  
PARKS**  
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SEAL / SIGNATURE



PROJECT:

**Cunliff Lake Boardwalk  
Improvements at Roger  
Williams Park**

1000 Elmwood Avenue  
A.P. 90, Lot 157  
Providence, RI 02095

REVISIONS:

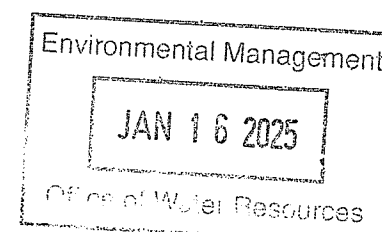
Date	Issued For:
1/13/2025	Permit Set
-	-
-	-

NORTH ARROW

SCALE

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS  
SPECIFIED IN THE LETTER OF APPROVAL  
DATED: APR 17 2025 FILE #: 25-005  
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*Todd D. Turcotte*



DRAWING INFO

DATE ISSUED: 1/13/2025  
PROJECT NO: RWBD.21.01  
DRAWN BY: KAD  
CHECKED BY: TDT

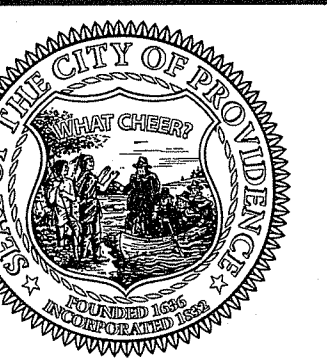
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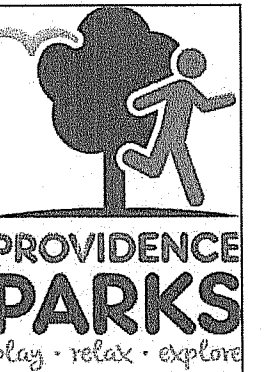
**C1.1**

5 OF 19

90% RIDEM PERMIT SUBMISSION  
NOT FOR CONSTRUCTION



**PROVIDENCE  
PARKS DEPARTMENT**  
DALRYMPLE BOATHOUSE  
ROGER WILLIAMS PARK  
PROVIDENCE, RI 02905

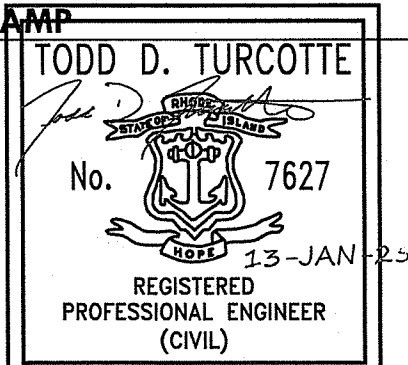


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PROJECT:

**Cunliff Lake Boardwalk  
Improvements at Roger  
Williams Park**

1000 Elmwood Avenue  
A.P. 90, Lot 157  
Providence, RI 02905

REVISIONS:

Date	Issued For:
1/13/2025	Permit Set
-	-
-	-

NORTH ARROW

SCALE

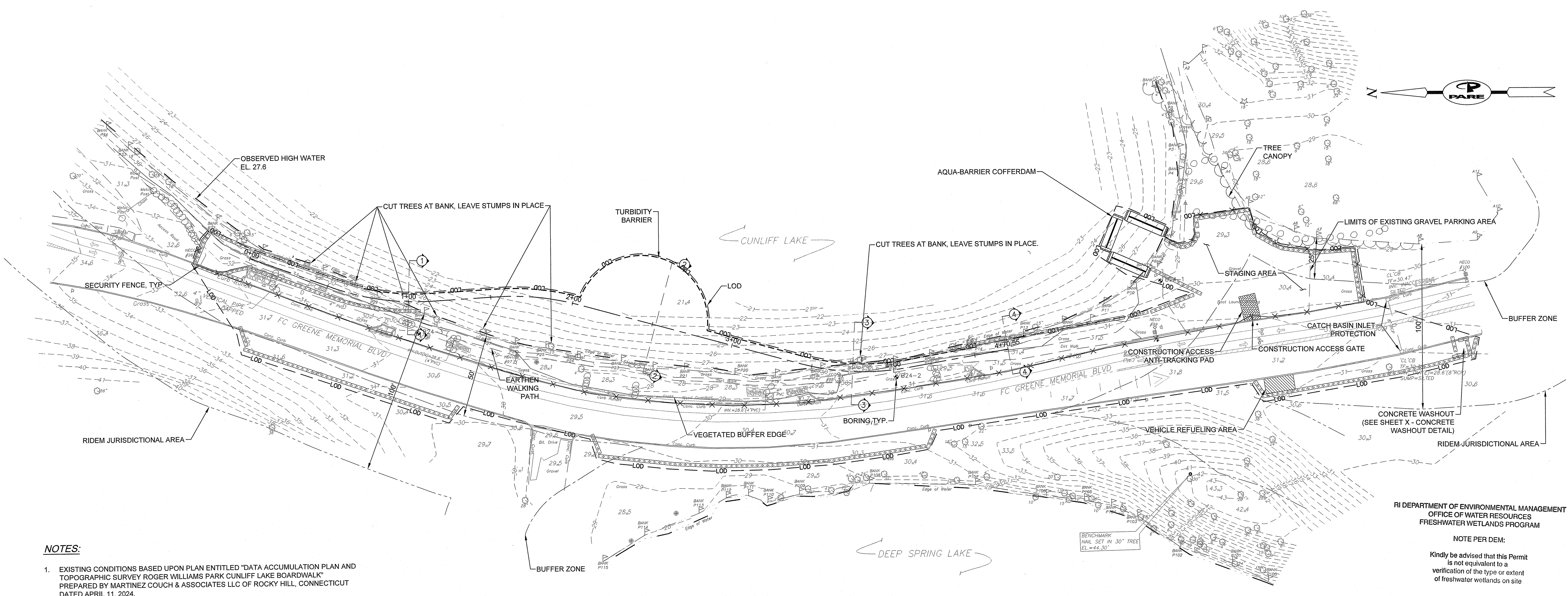
DRAWING INFO

DATE ISSUED: 1/13/2025  
PROJECT NO: RWBD.21.01  
DRAWN BY: KAD  
CHECKED BY: TDT

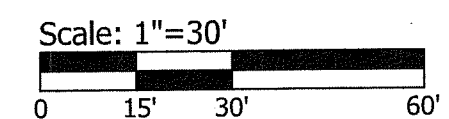
SHEET TITLE

**EXISTING SITE  
& DEMOLITION  
PLAN**  
**C2.0**

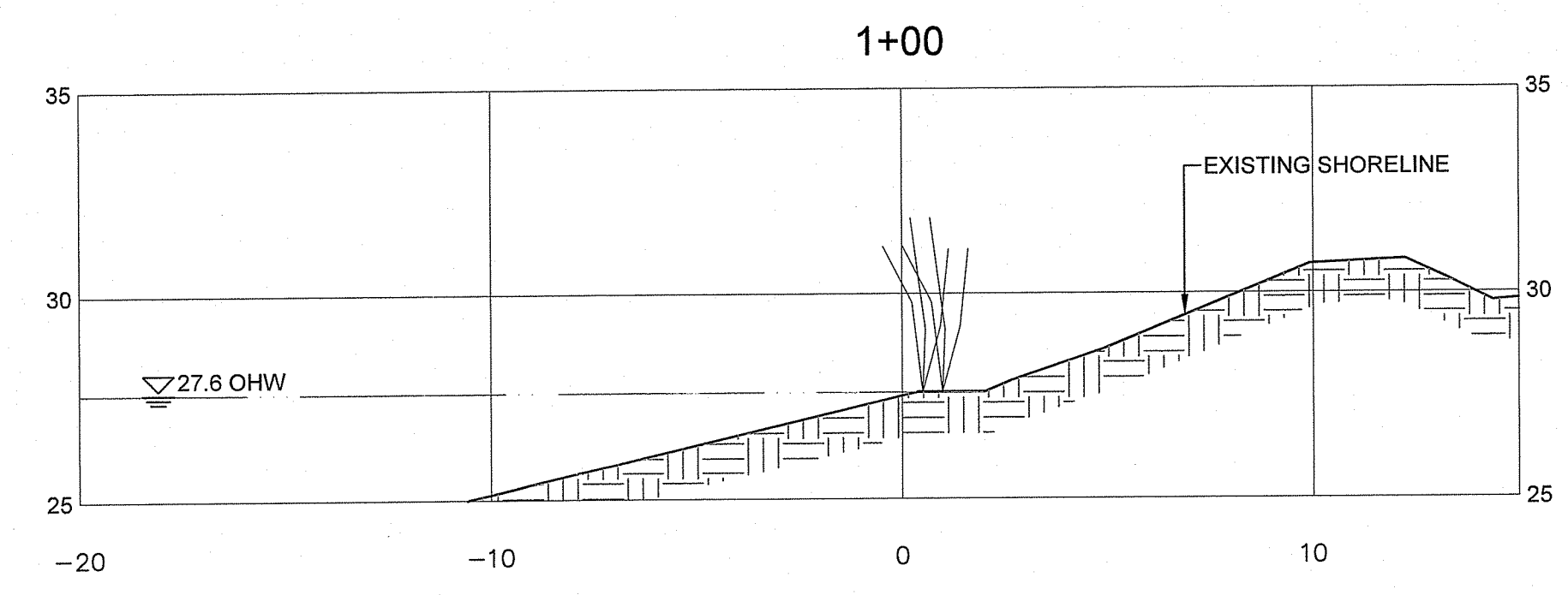
6 OF 19



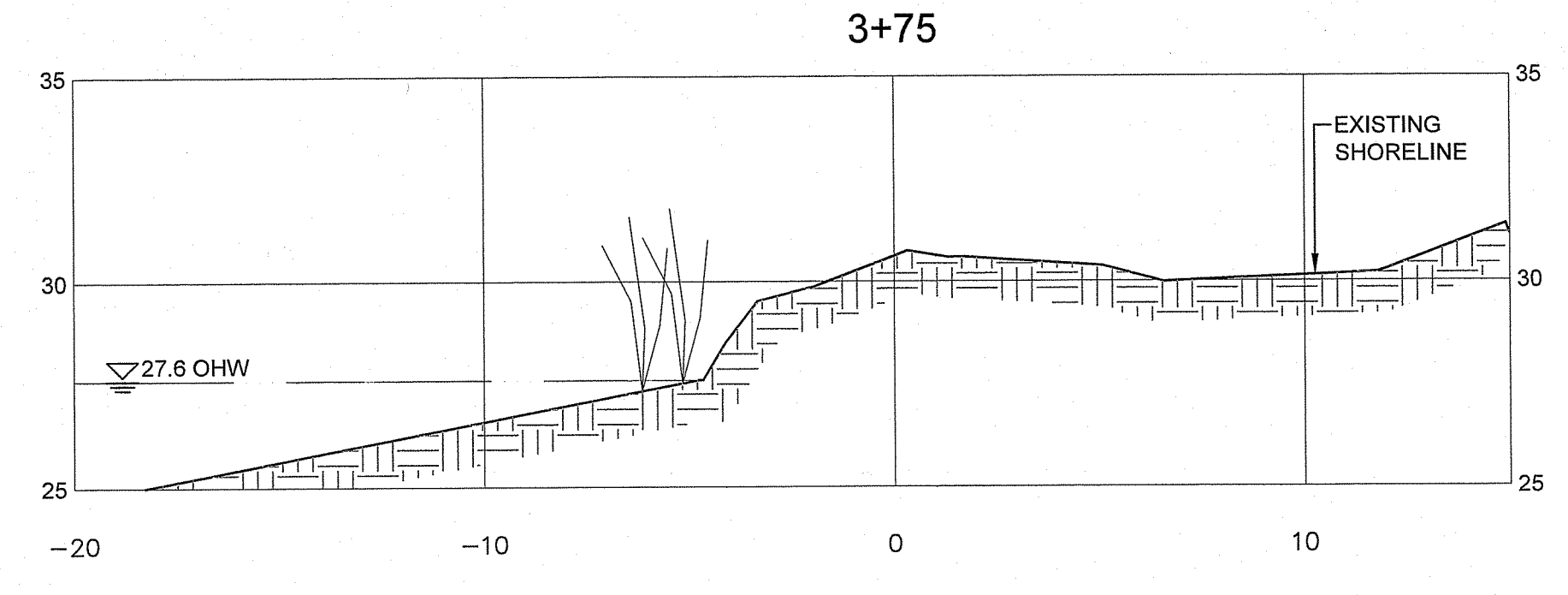
- NOTES:**
- EXISTING CONDITIONS BASED UPON PLAN ENTITLED "DATA ACCUMULATION PLAN AND TOPOGRAPHIC SURVEY ROGER WILLIAMS PARK CUNLIFF LAKE BOARDWALK" PREPARED BY MARTINEZ COUCH & ASSOCIATES LLC OF ROCKY HILL, CONNECTICUT DATED APRIL 11, 2024.
  - BENCHMARKS AND CONTROL POINTS SHALL BE VERIFIED BY CONTRACTOR BEFORE COMMENCING WITH LAYOUT.



**EXISTING SITE PLAN**  
SCALE: 1" = 30'



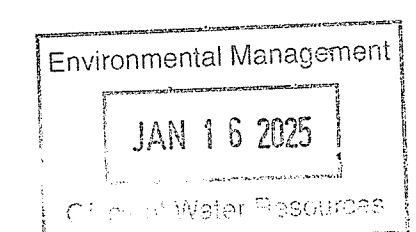
**SECTION THROUGH STA 1+00**  
SCALE: 1" = 4'



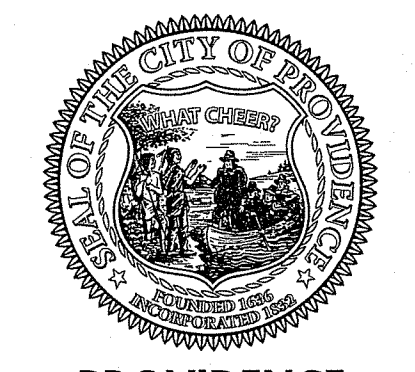
**SECTION THROUGH STA 3+75**  
SCALE: 1" = 4'

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
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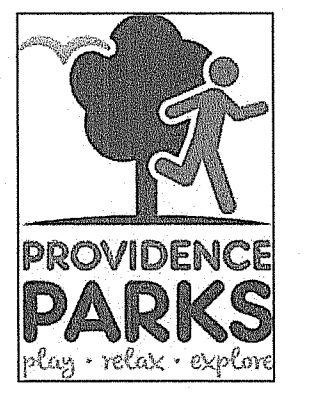
*Signature*



**90% RIDEM PERMIT SUBMISSION  
NOT FOR CONSTRUCTION**



**PROVIDENCE PARKS DEPARTMENT**  
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ROGER WILLIAMS PARK  
PROVIDENCE, RI 02905



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**STAMP**  
TODD D. TURCOTTE  
No. 7627  
13-JAN-25  
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

PROJECT:

**Cunliff Lake Boardwalk Improvements at Roger Williams Park**  
1000 Elmwood Avenue  
A.P. 90, Lot 157  
Providence, RI 02095

REVISIONS:

Date	Issued For:
1/13/2025	Permit Set
-	-
-	-

NORTH ARROW

SCALE

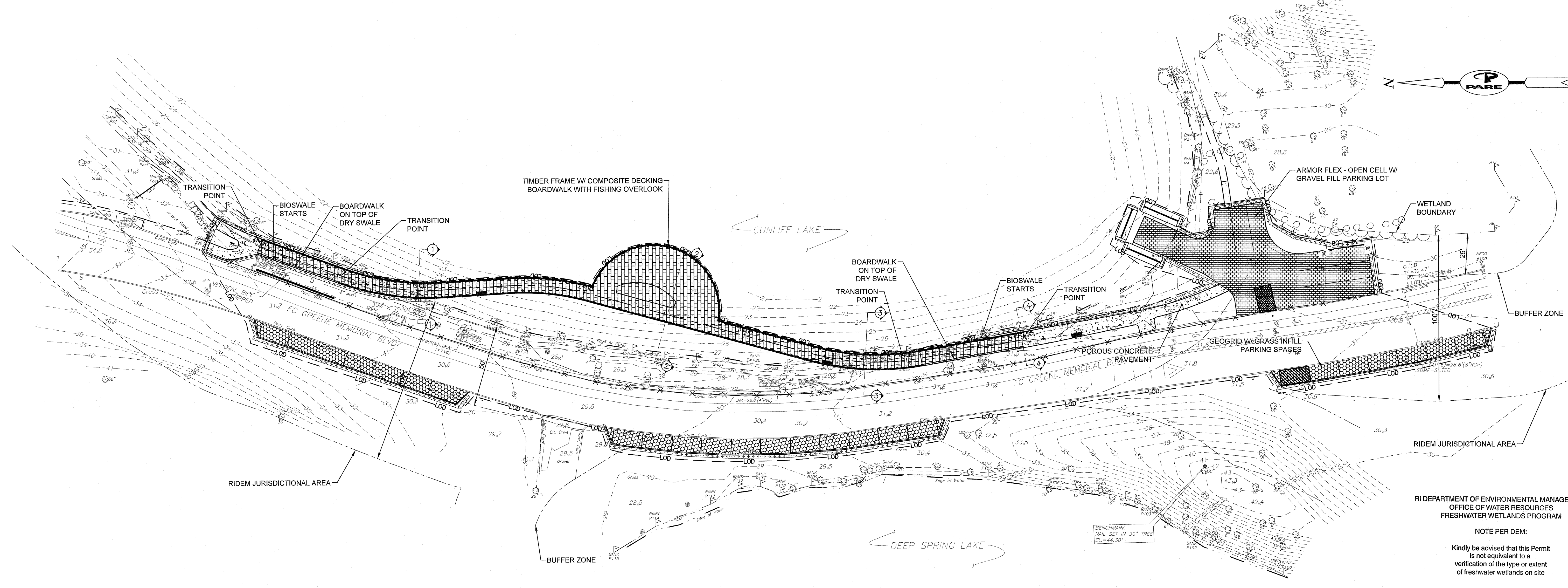
DRAWING INFO

DATE ISSUED: 1/13/2025  
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DRAWN BY: KAD  
CHECKED BY: TDT

SHEET TITLE

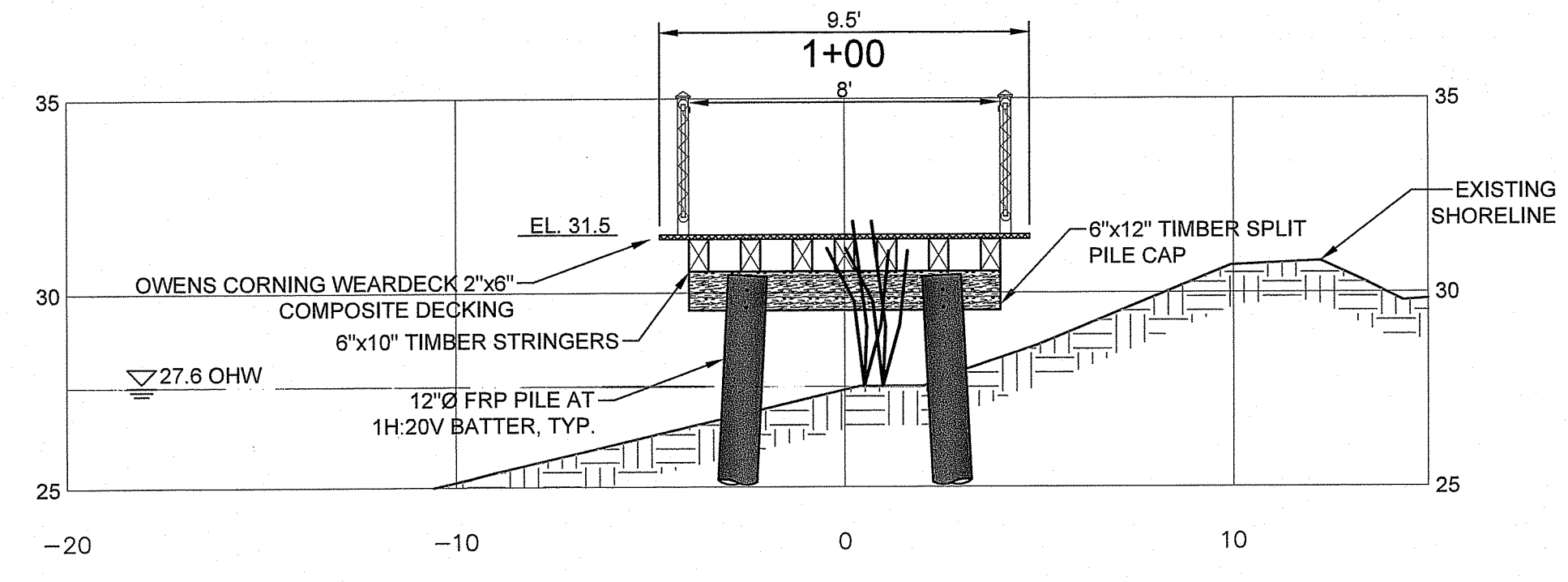
**PROPOSED SITE PLAN**

**C3.0**  
7 OF 19

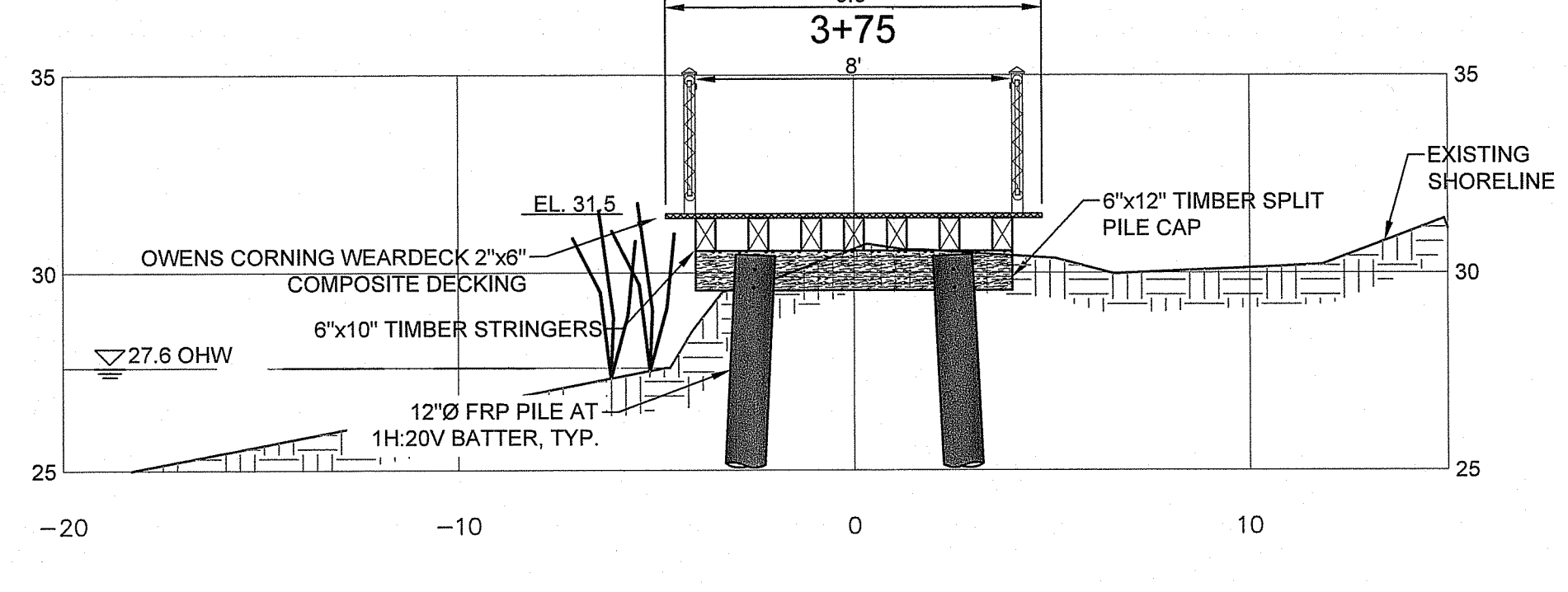


**PROPOSED SITE PLAN**  
SCALE: 1" = 30'

Scale: 1"=30'  
0 15' 30' 60'



**SECTION THROUGH STA 1+00**  
SCALE: 1"=4'

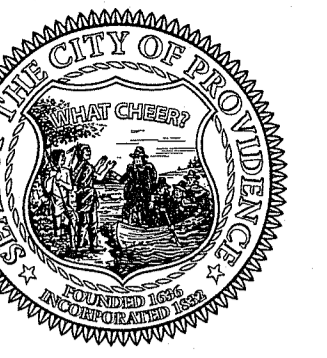


**SECTION THROUGH STA 3+75**  
SCALE: 1"=4'

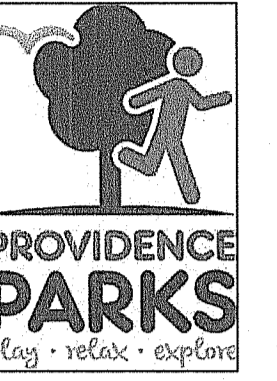
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED: APR 17 2025 FILE #: 25-005  
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Environmental Management  
JAN 16 2025  
Office of Water Resources

**90% RIDEM PERMIT SUBMISSION  
NOT FOR CONSTRUCTION**



**PROVIDENCE  
PARKS DEPARTMENT**  
DALRYMPLE BOATHOUSE  
ROGER WILLIAMS PARK  
PROVIDENCE, RI 02905

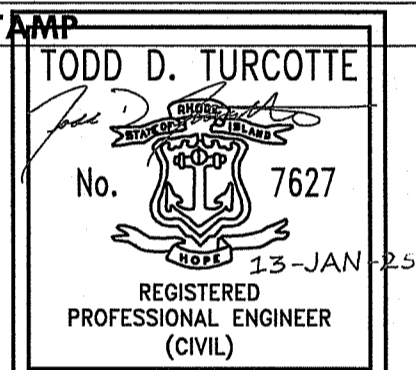


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**PROJECT:**  
**Cunliff Lake Boardwalk  
Improvements at Roger  
Williams Park**  
1000 Elmwood Avenue  
A.P. 90, Lot 157  
Providence, RI 02095

**REVISIONS:**

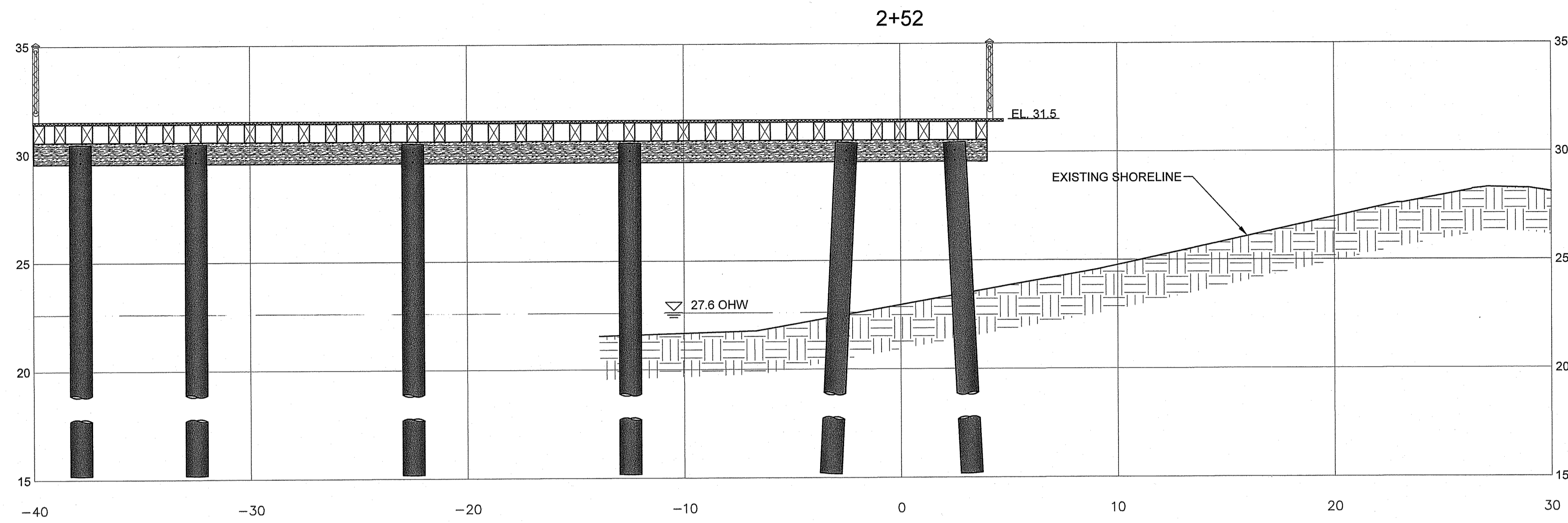
Date	Issued For:
1/13/2025	Permit Set
-	-
-	-

NORTH ARROW

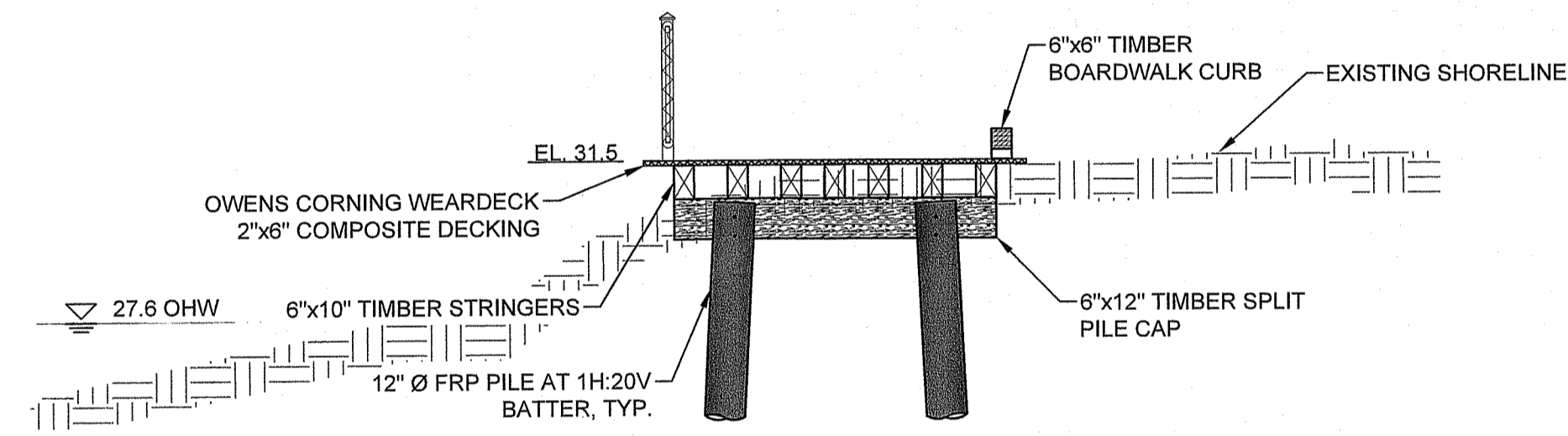
SCALE

**DRAWING INFO**  
DATE ISSUED: 1/13/2025  
PROJECT NO: RWBD.21.01  
DRAWN BY: KAD  
CHECKED BY: TDT

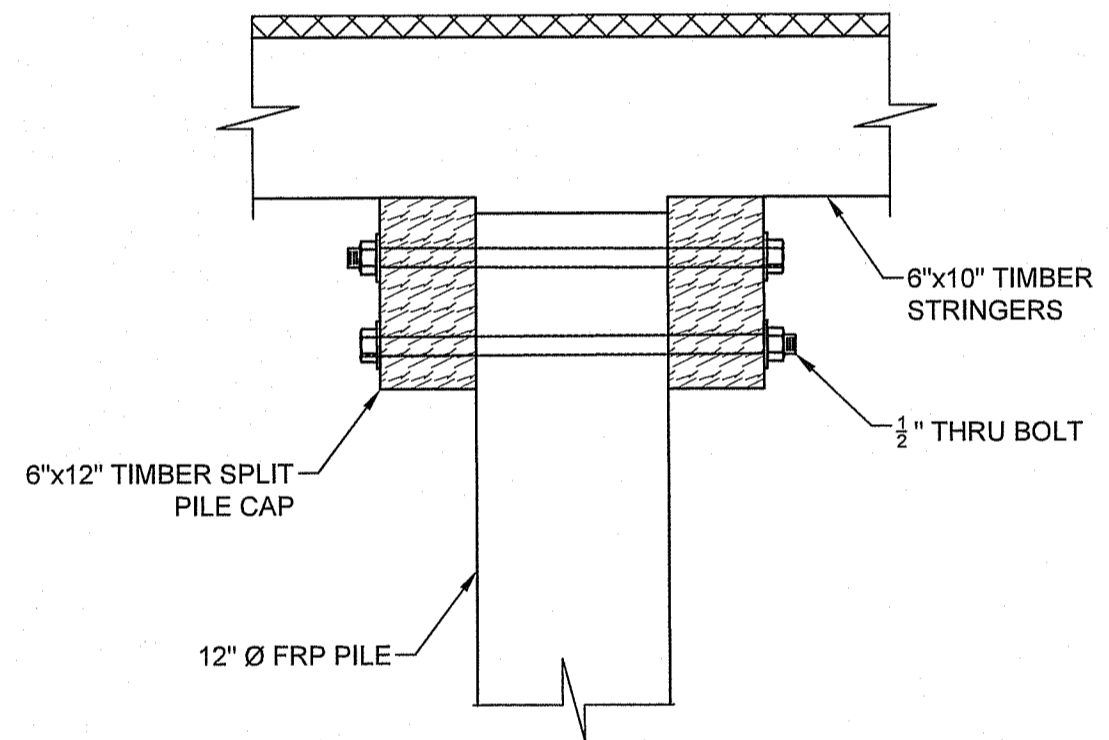
**SHEET TITLE**  
**BOARDWALK  
SECTIONS &  
DETAILS  
C4.0**  
8 OF 19



**2** PROPOSED SECTION  
SCALE: 1" = 4'

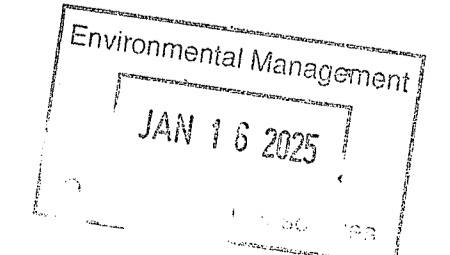


**4** PROPOSED SECTION  
SCALE: 1" = 4'

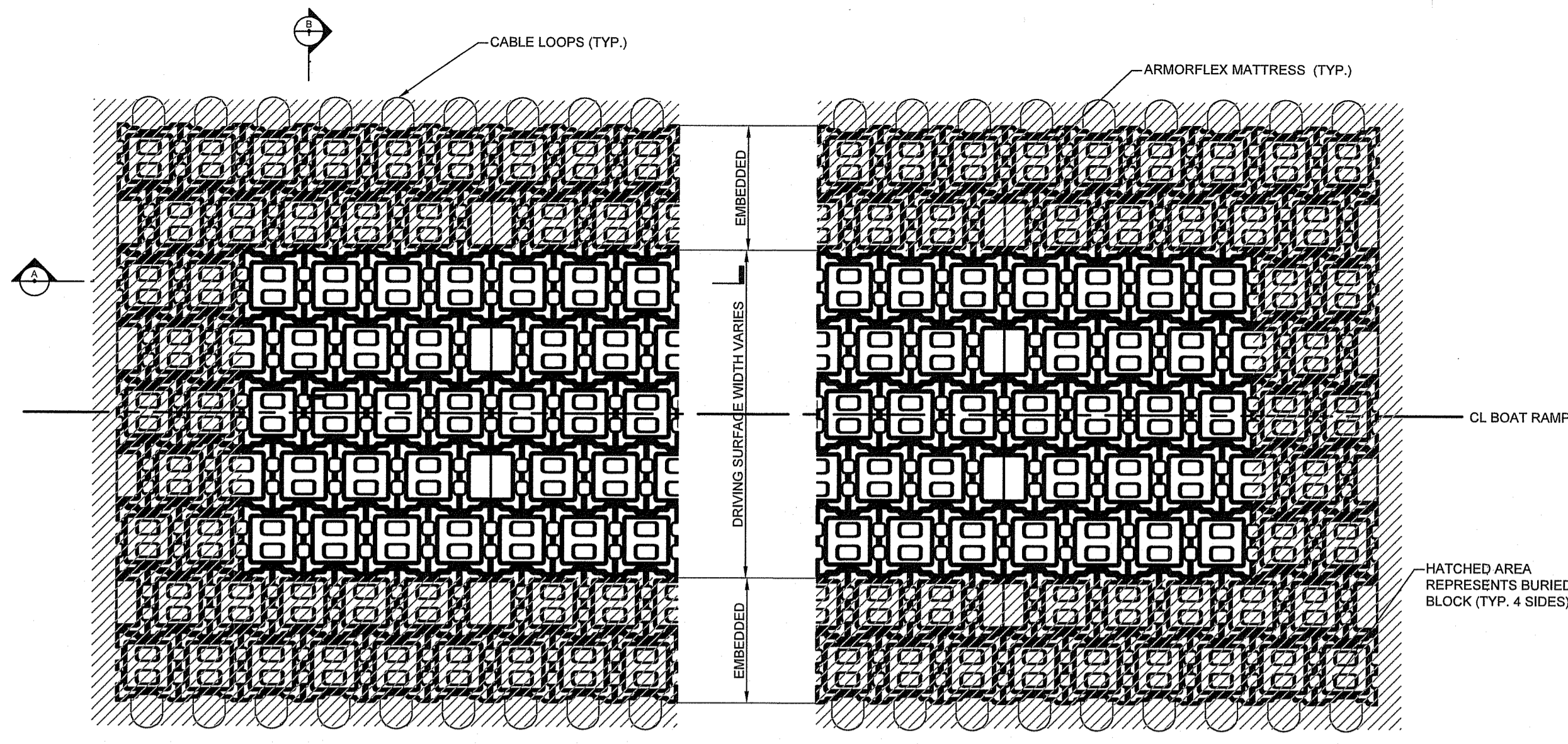
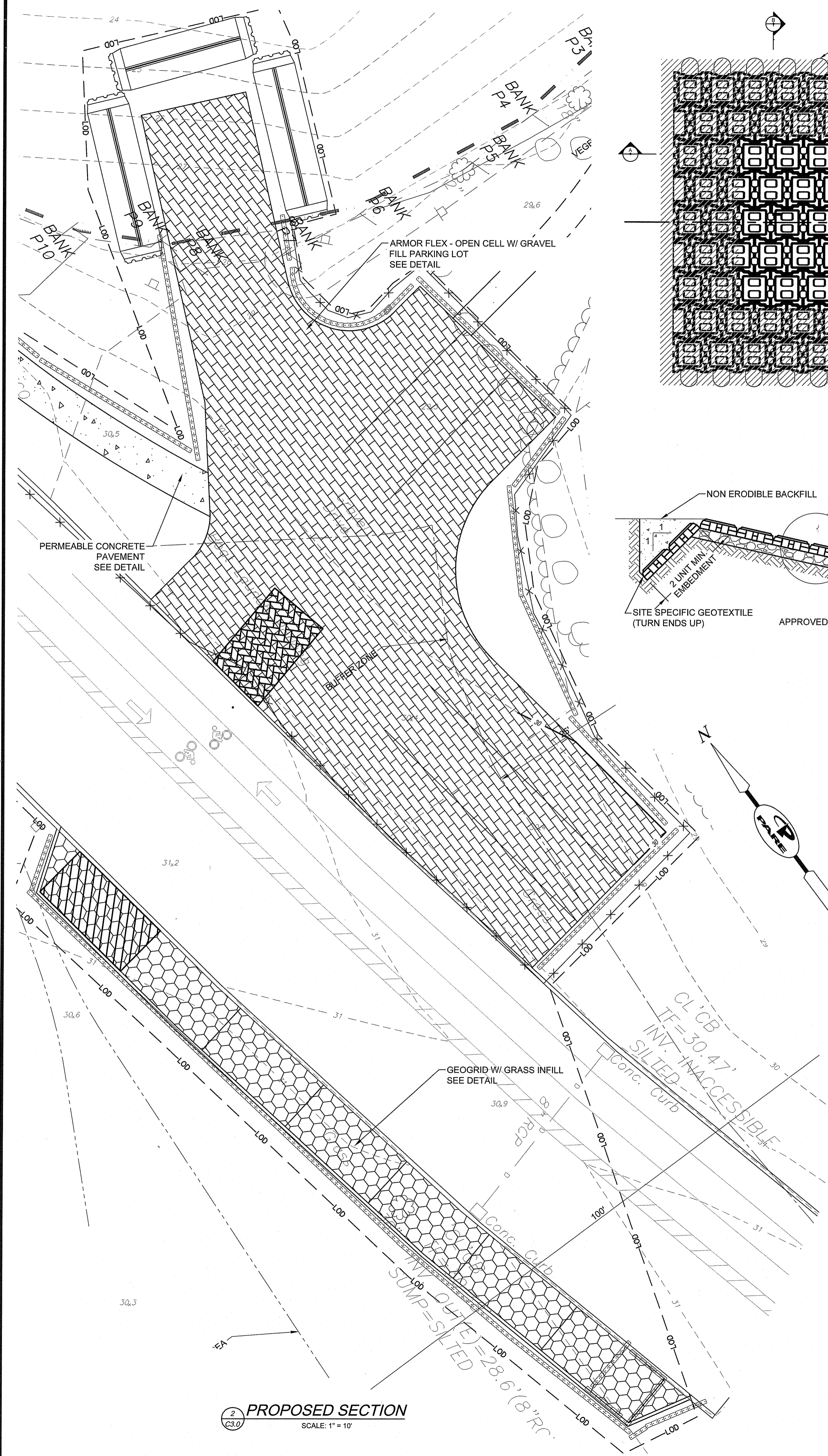


PILE CAP DETAIL  
NOT TO SCALE

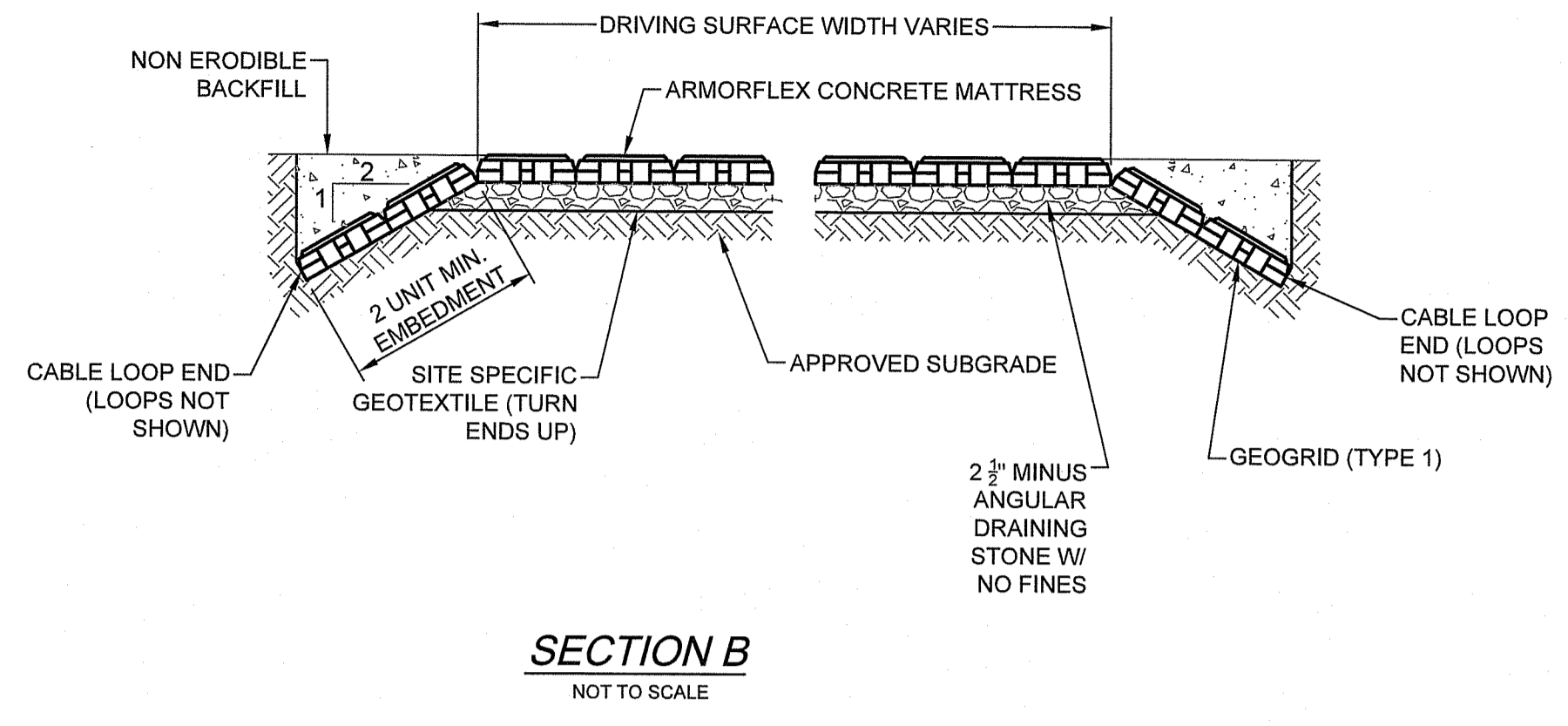
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS  
SPECIFIED IN THE LETTER OF APPROVAL  
DATED: APR 17 2025 FILE #: 25-CAS  
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*Gregory D. Senechal*



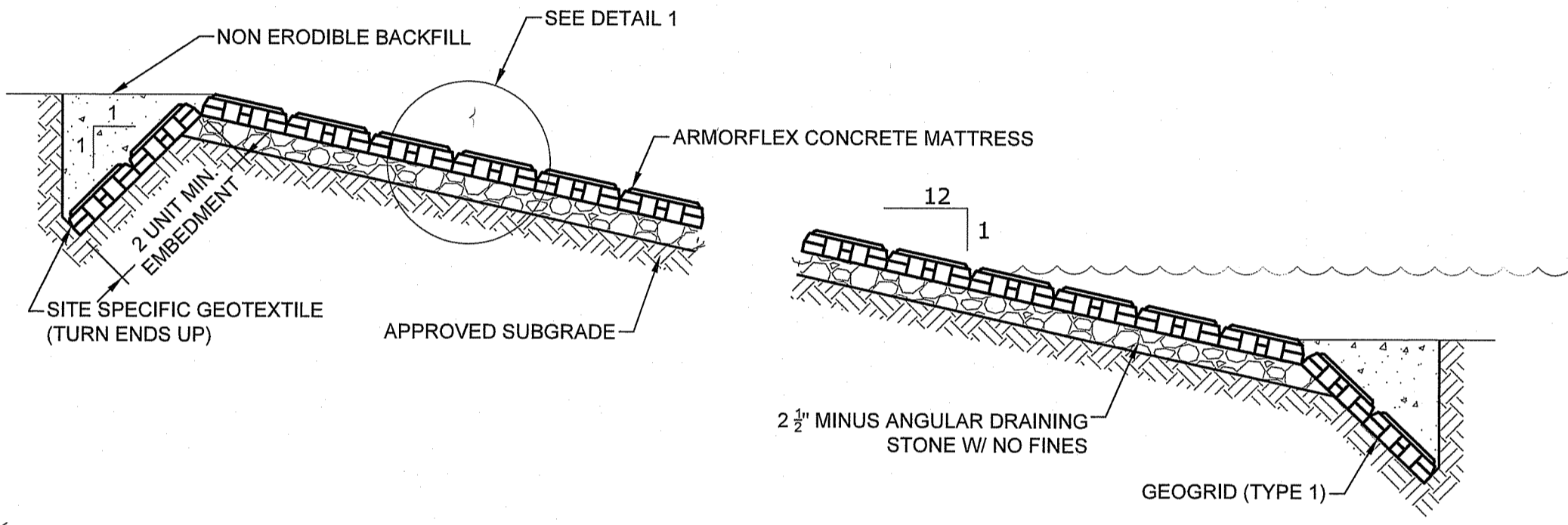
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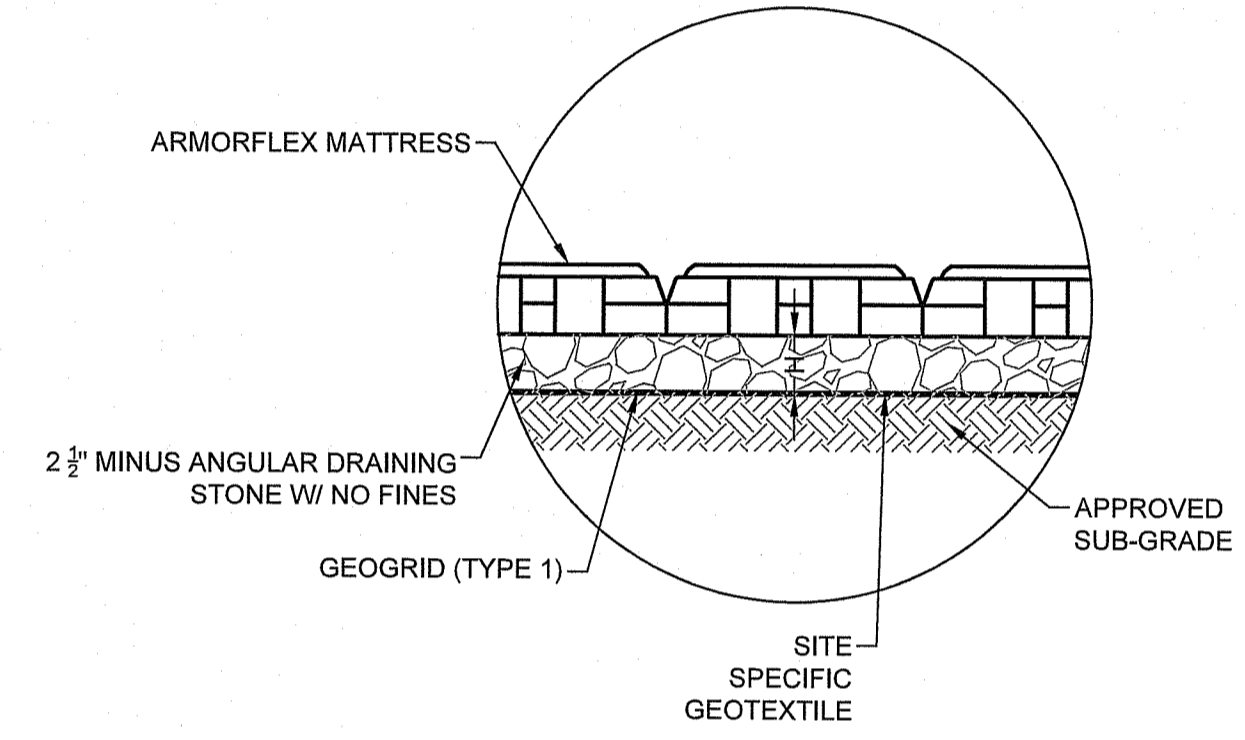
**BOAT RAMP PLAN**  
NOT TO SCALE



**SECTION B**  
NOT TO SCALE



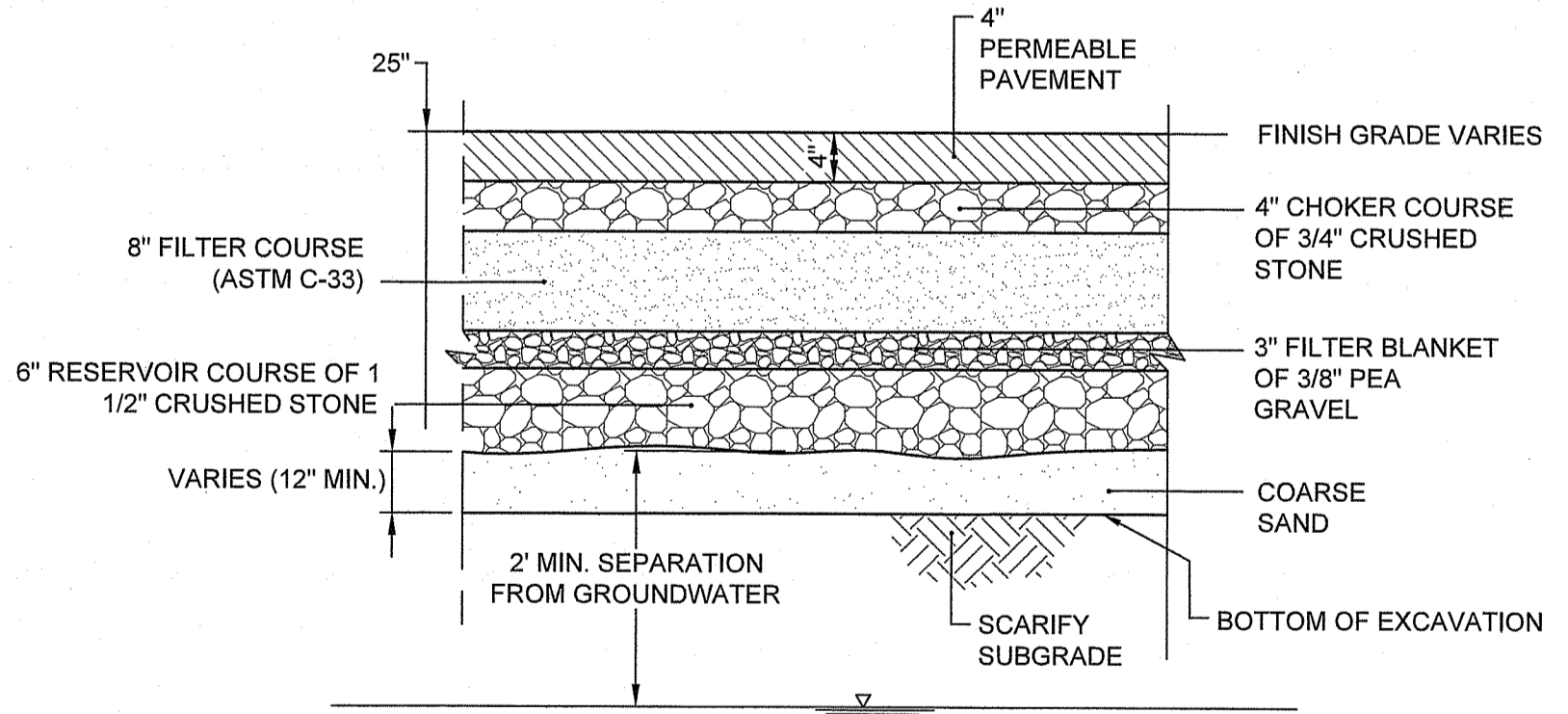
**SECTION A**  
NOT TO SCALE



**DETAIL 1**  
NOT TO SCALE

CBR%	1	2	3	4	5
UNREINFORCED STONE THICKNESS, H (IN.)	61	31	20	15	11
REINFORCED STONE THICKNESS, H (IN.)	36*	16	8	8	8

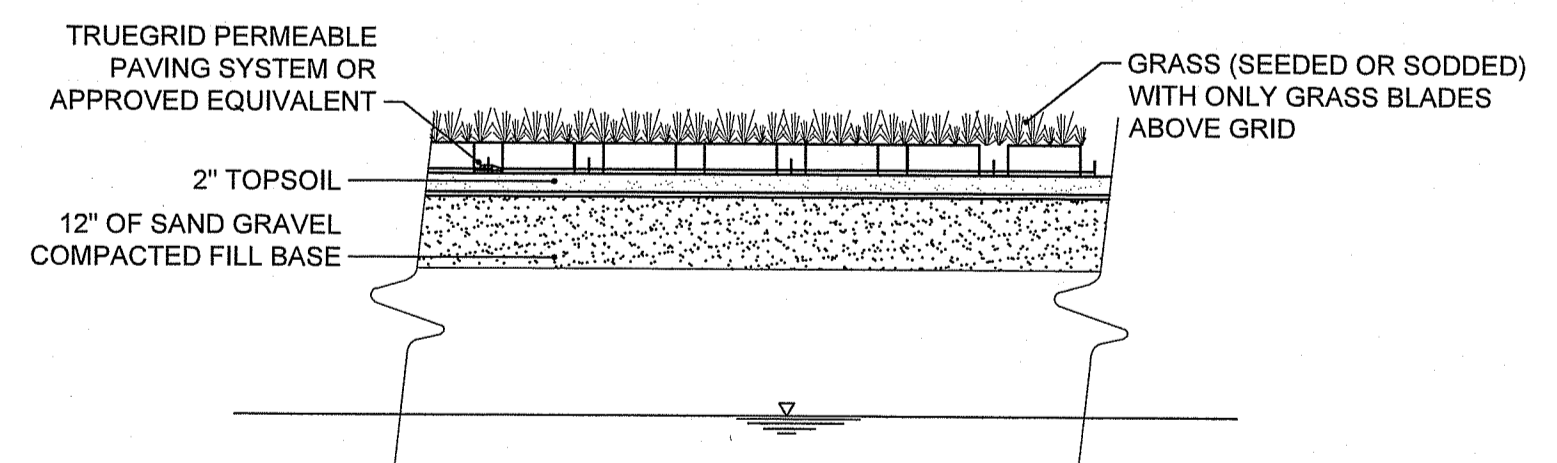
NOTE: SECTION DEVELOPED ASSUMING 1000 PASSES OF HET MILITARY LOADING  
\* 2 LAYERS OF TYPE 1 GEOGRID, AT SUBGRADE AND MIDDLE OF DRAINAGE BOX



**NOTES:**

- CONTRACTOR SHALL EXCAVATE FILL DOWN TO NATURAL SOILS. REMOVE ALL FILL SOILS. CONSTRUCT SUBGRADE USING COARSE SAND. REFER TO BORING LOGS FOR ELEVATION OF NATURAL SOILS.

**PERMEABLE BITUMINOUS CONCRETE PAVEMENT DETAIL**  
NOT TO SCALE



**REINFORCED TURF DETAIL**  
NOT TO SCALE

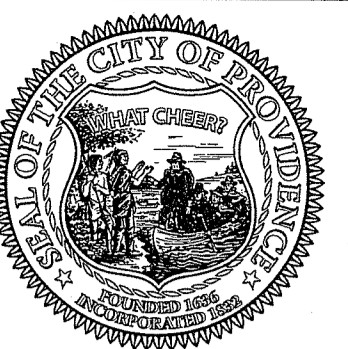
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:  
Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site

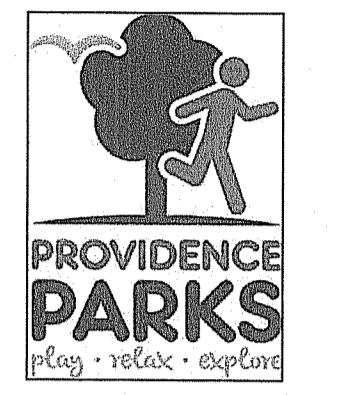
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED: APR 17 2025 FILE #: 25-015  
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*Todd D. Turcotte*  
Environmental Management  
JAN 16 2025  
Office of Water Resources

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**PROVIDENCE PARKS DEPARTMENT**  
DALRYMPLE BOATHOUSE  
ROGER WILLIAMS PARK  
PROVIDENCE, RI 02905



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**CONSULTANT**



**SEAL / SIGNATURE**

**STAMP**

TODD D. TURCOTTE  
No. 7627  
25-JAN-25  
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

**PROJECT:**  
**Cunliff Lake Boardwalk Improvements at Roger Williams Park**  
1000 Elmwood Avenue  
A.P. 90, Lot 157  
Providence, RI 02095

**REVISIONS:**

Date	Issued For:

**NORTH ARROW**

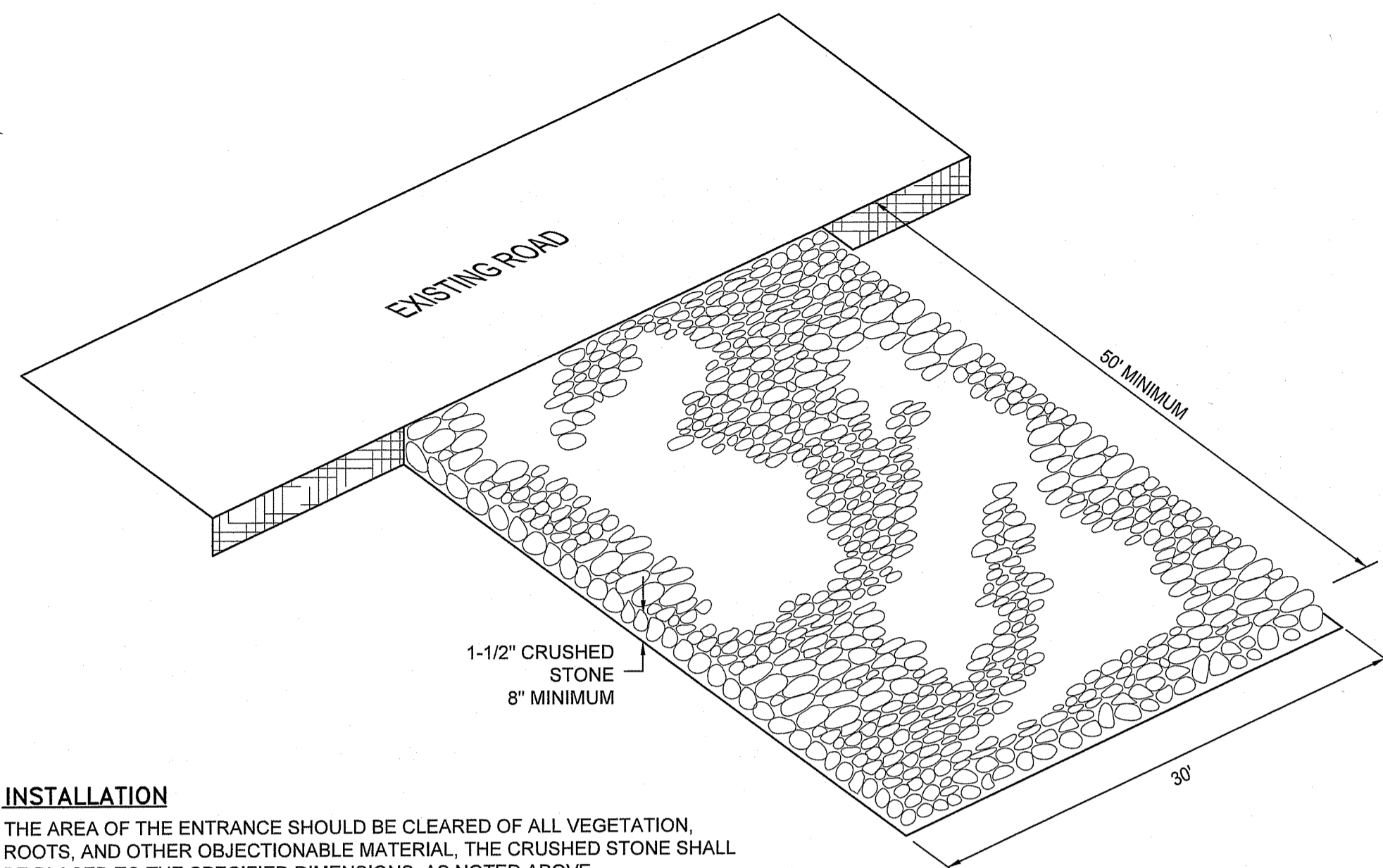
**SCALE**

**DRAWING INFO**

DATE ISSUED: -  
PROJECT NO: RWBD.21.01  
DRAWN BY: KAD  
CHECKED BY: TDT

**SHEET TITLE**  
**BOAT RAMP SECTIONS & DETAILS**  
**C5.0**

9 OF 19



**INSTALLATION**

THE AREA OF THE ENTRANCE SHOULD BE CLEARED OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL, THE CRUSHED STONE SHALL BE PLACED TO THE SPECIFIED DIMENSIONS, AS NOTED ABOVE.

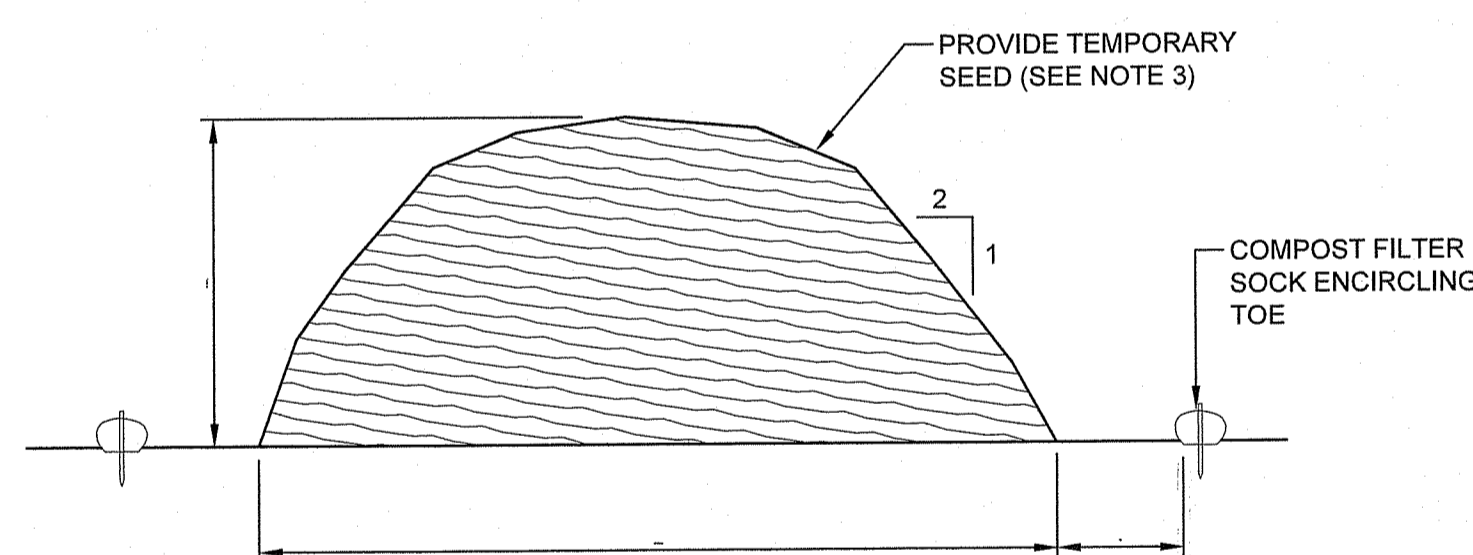
**MAINTENANCE**

THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENTS ONTO PUBLIC RIGHT-OF-WAYS. THIS WILL REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE, OR ADDITIONAL LENGTH, AS CONDITIONS DEMAND, AND REPAIR, AND / OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS MUST BE REMOVED IMMEDIATELY.

**LOCATION**

SEE PROJECT PLANS FOR LOCATION OF CONSTRUCTION ENTRANCE.

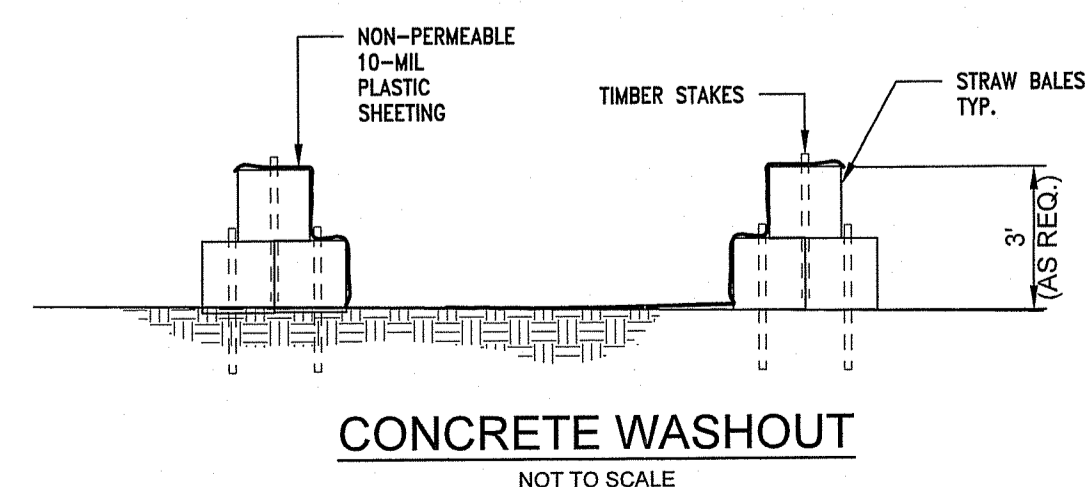
**CONSTRUCTION ENTRANCE PROTECTION STONE STABILIZATION PAD**  
NOT TO SCALE



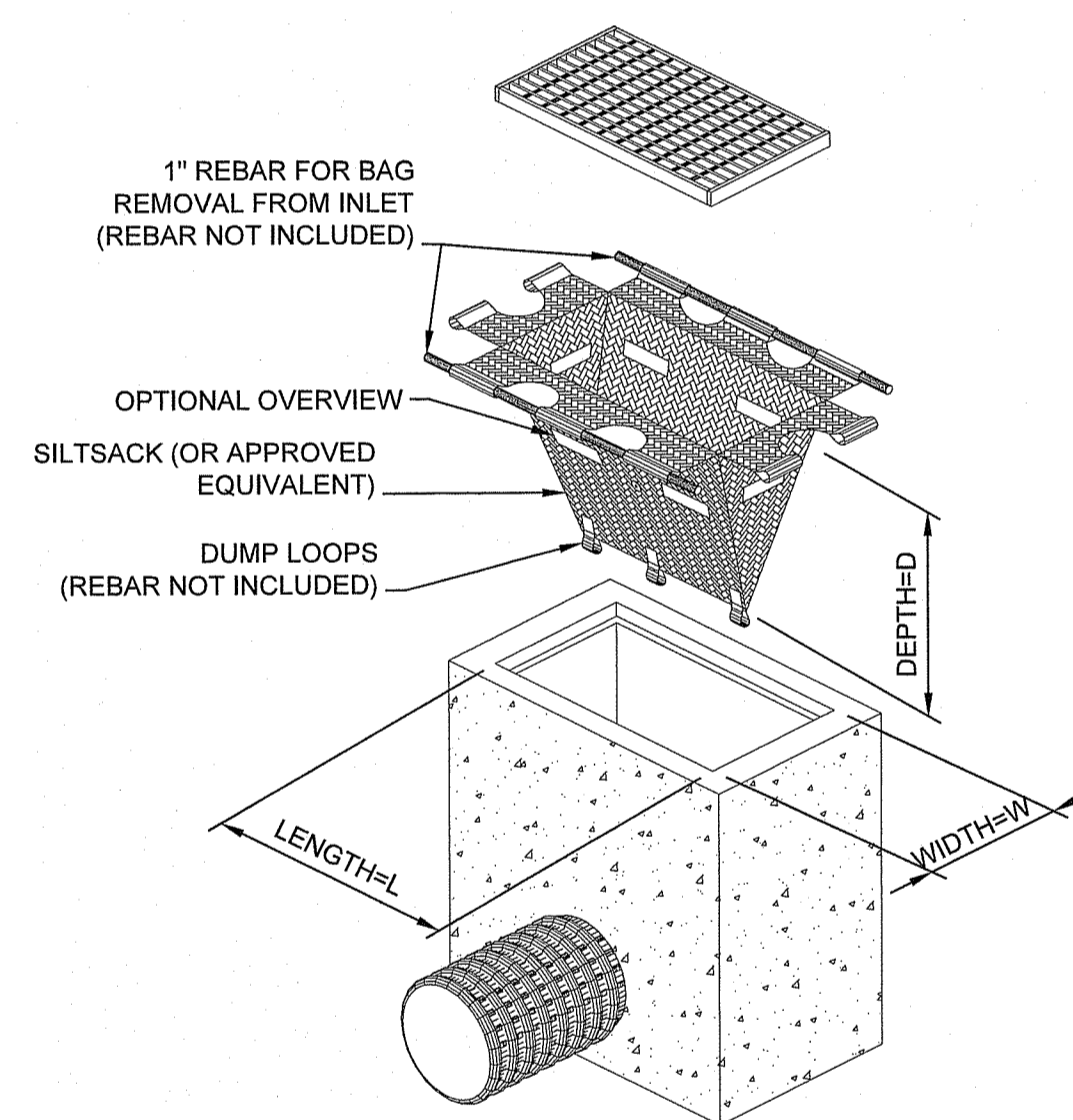
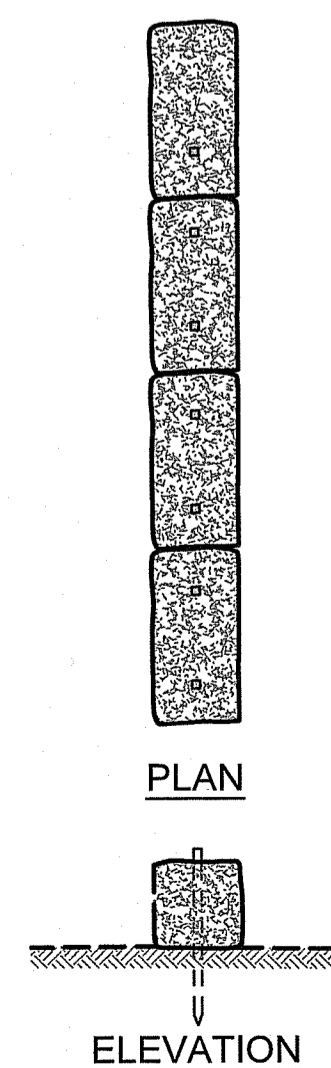
**NOTES:**

1. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL PREPARE A PLAN SHOWING THE PROPOSED LOCATION OF ALL STOCKPILE AREAS.
2. STOCKPILE AREA SHALL NOT EXCEED SPECIFIED DIMENSIONS WITHOUT APPROVAL FROM ENGINEER.
3. STOCKPILED ERODIBLE MATERIAL THAT WILL NOT BE USED FOR GREATER THAN 14 DAYS SHALL BE STABILIZED WITH TEMPORARY SEED IMMEDIATELY FOLLOWING PLACEMENT.

**ERODIBLE MATERIAL STOCKPILE**  
NOT TO SCALE



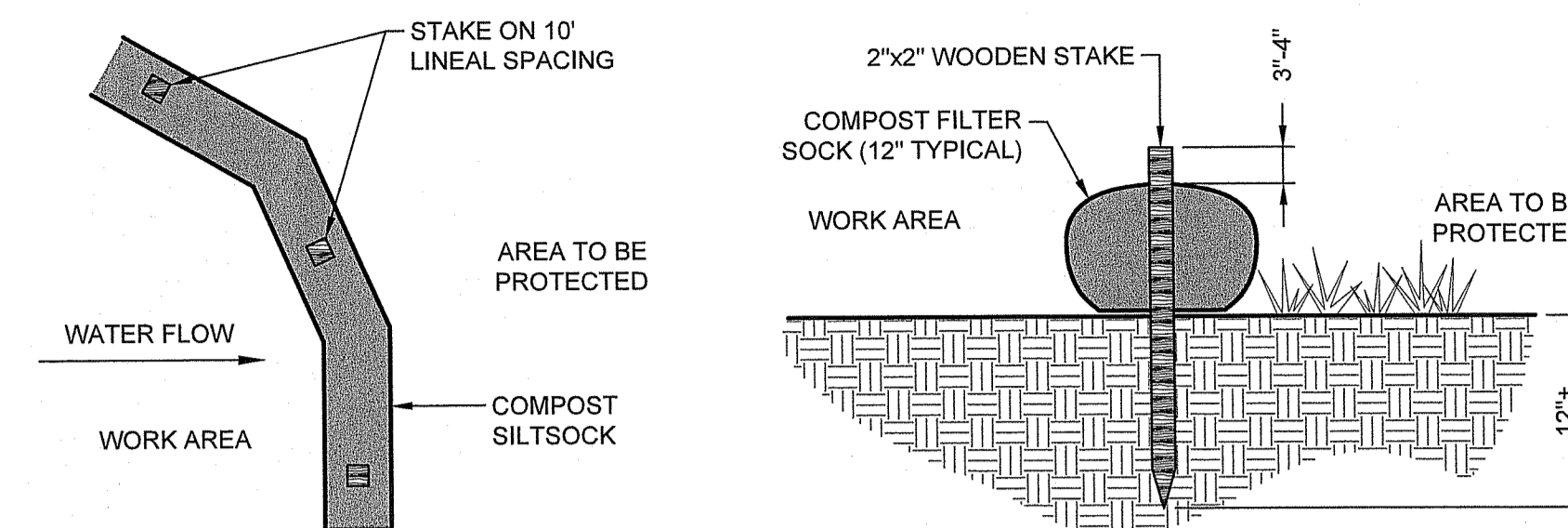
**STRAW BALE DETAIL**  
NOT TO SCALE



**NOTES:**

1. INLET PROTECTION SHALL BE CLEANED OF SILT AND DEBRIS ON A REGULAR BASIS AS REQUIRED BY PROJECT SPECIFIC SESC.
2. INSPECTIONS SHALL BE DONE AFTER EACH RAIN EVENT AND AT A MINIMUM EVERY TWO WEEKS AND AS REQUIRED BY PROJECT SPECIFIC SESC.

**TEMPORARY INLET PROTECTION**  
NOT TO SCALE

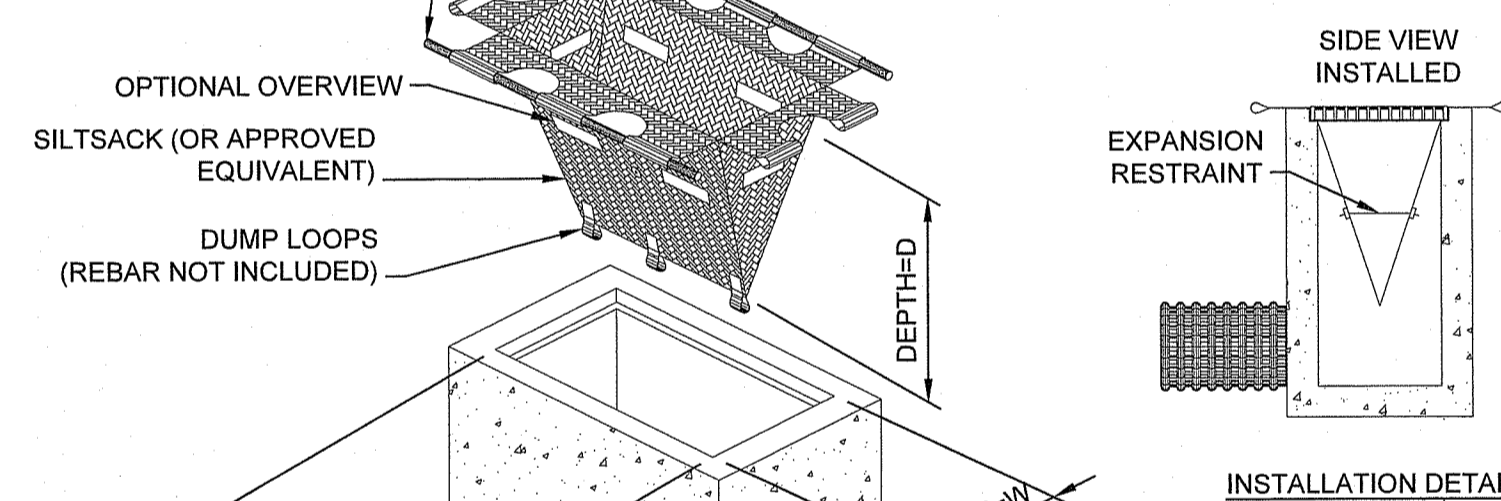


**NOTES:**

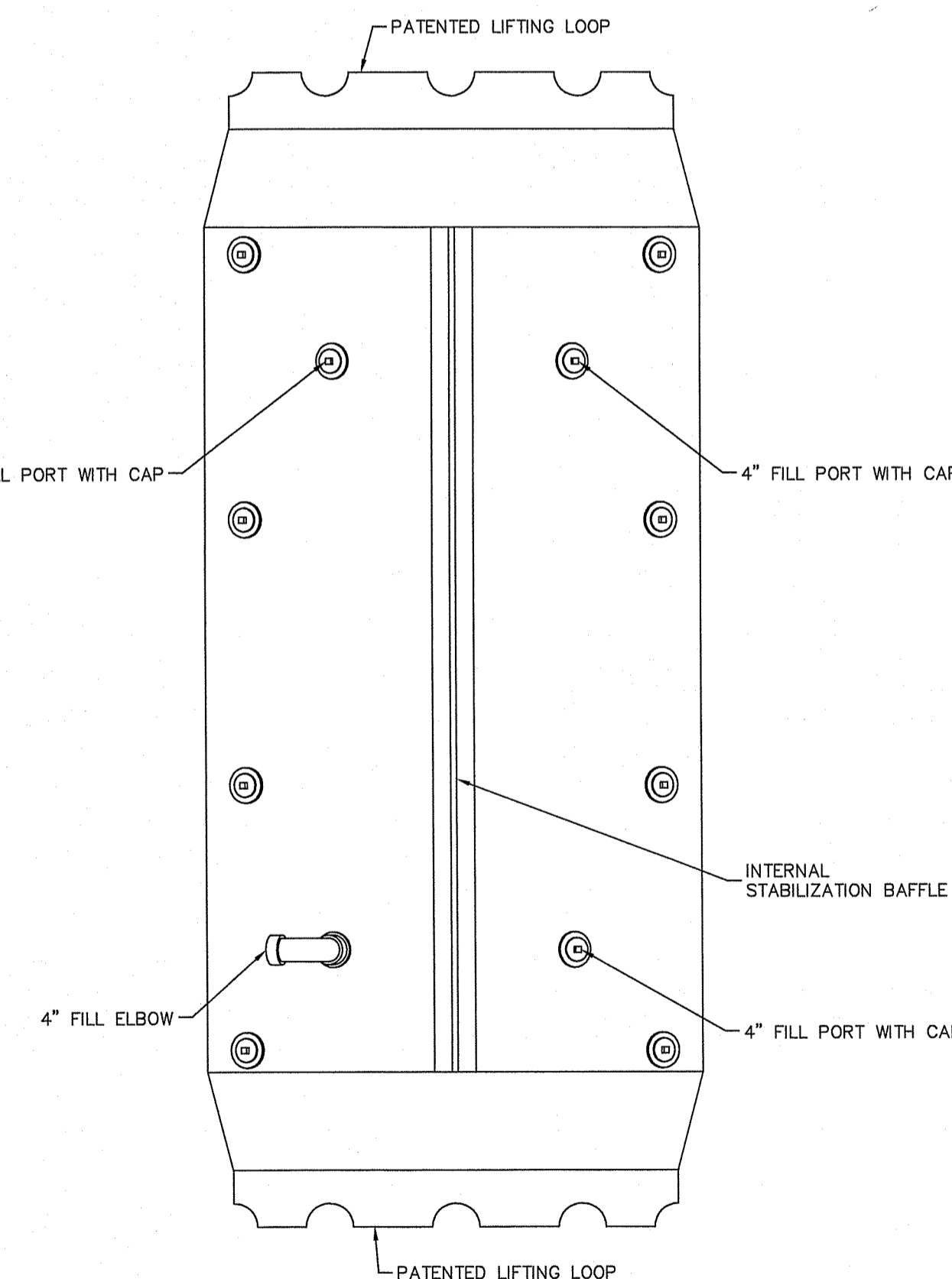
1. COMPOST/ SOIL/ ROCK/ SEED FILL TO MEET APPLICATION REQUIREMENTS.
2. COMPOST MATERIAL TO BE REMOVED OR DISPERSED ON SITE AS DETERMINED BY ENGINEER.

**COMPOST FILTER SOCK DETAIL**  
NOT TO SCALE

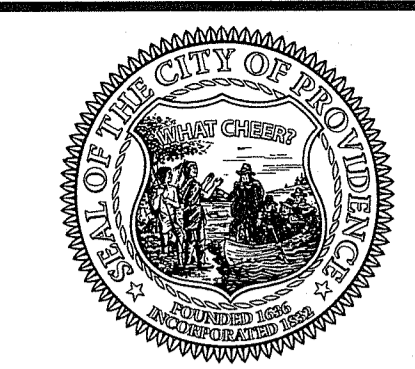
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
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**AQUA-BARRIER COFFERDAM DETAILS**  
SCALE: 1" = 2'



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DALRYMPLE BOATHOUSE  
ROGER WILLIAMS PARK  
PROVIDENCE, RI 02905

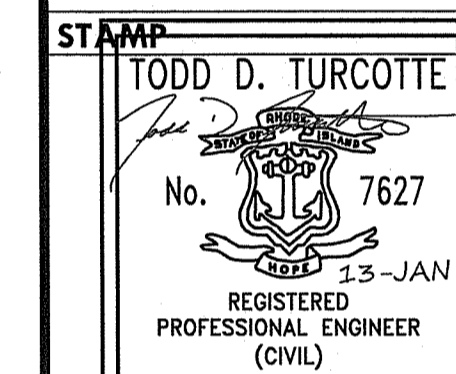


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**CONSULTANT**



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**PROJECT:**

**Cunliff Lake Boardwalk Improvements at Roger Williams Park**  
1000 Elmwood Avenue  
A.P. 90, Lot 157  
Providence, RI 02095

**REVISIONS:**

Date	Issued For:
1/13/2025	Permit Set
-	-
-	-

**NORTH ARROW**

**SCALE**

**DRAWING INFO**

DATE ISSUED: 1/13/2025  
PROJECT NO: RWBD.21.01  
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CHECKED BY: TDT

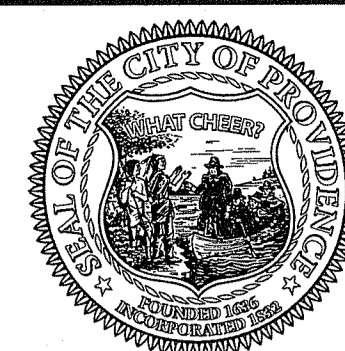
**SHEET TITLE**

**MISCELLANEOUS DETAILS**

**C6.0**

10 OF 19

2.894  
Environmental Management  
Office of Water Resources  
JAN 16 2025



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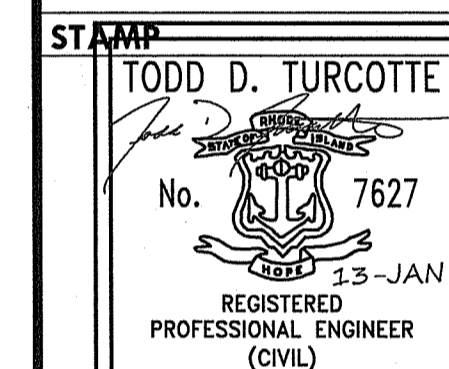


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Providence, RI 02095

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-	-

NORTH ARROW

SCALE

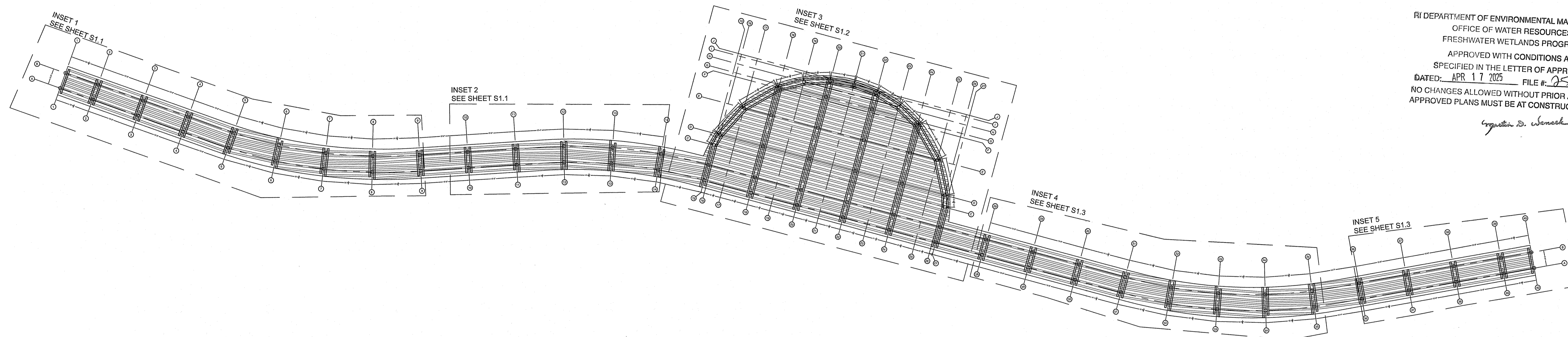
DRAWING INFO

DATE ISSUED: 1/13/2025  
PROJECT NO: RWBD.21.01  
DRAWN BY: KAD  
CHECKED BY: TDT

SHEET TITLE

**OVERALL  
STRUCTURAL  
FRAMING PLAN  
S1.0**

11 of 19

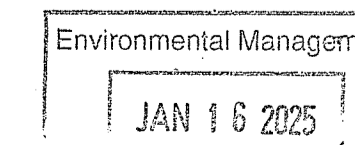


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OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
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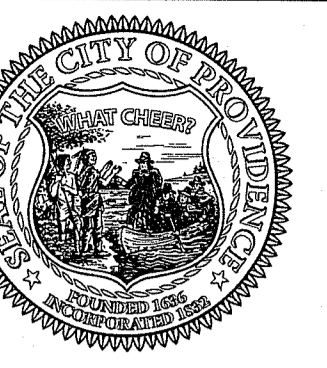
*Gregory D. Sanchez*

**OVERALL STRUCTURAL FRAMING PLAN**

SCALE: 1/8" = 1'



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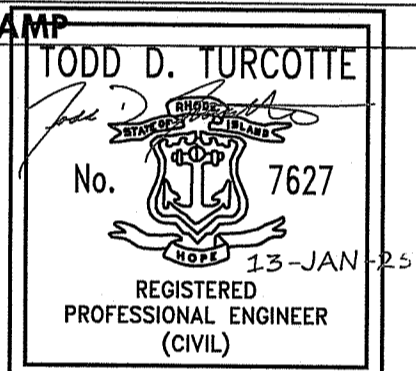


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PROJECT:

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NORTH ARROW

SCALE

DRAWING INFO

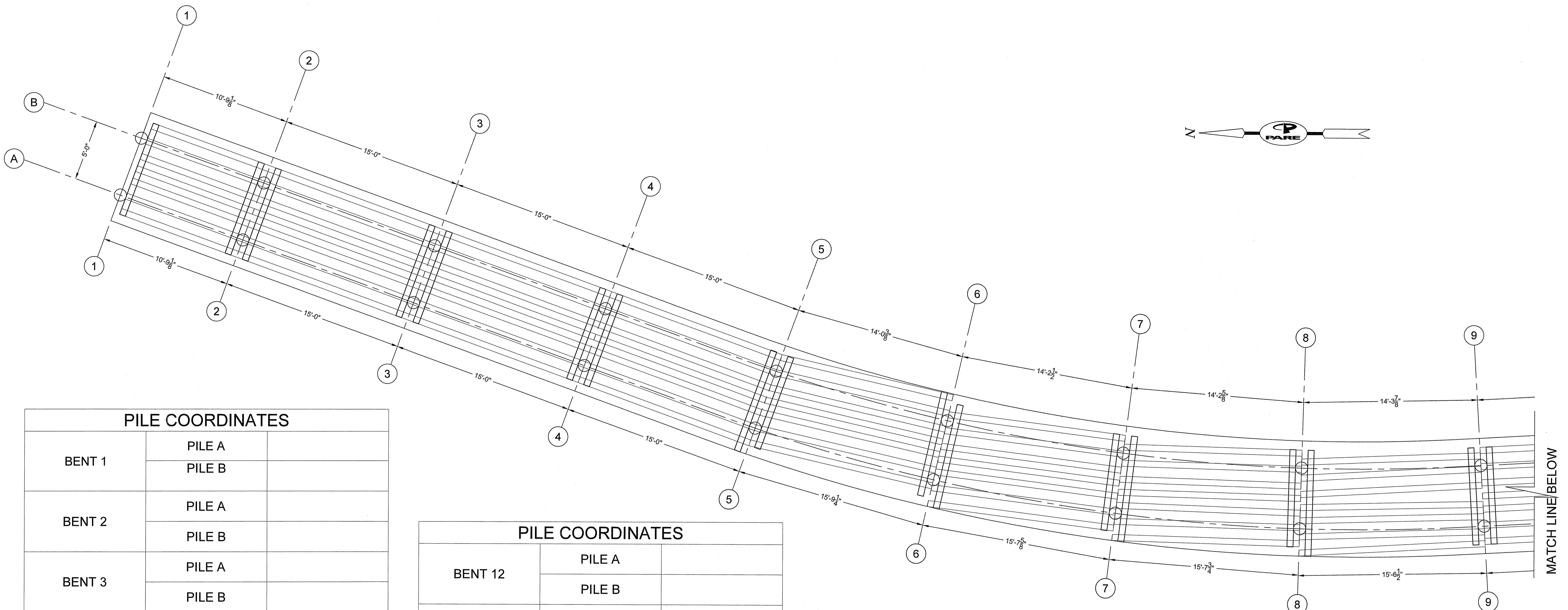
DATE ISSUED: 1/13/2025  
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SHEET TITLE

**STRUCTURAL FRAMING PLAN I**

**S1.1**

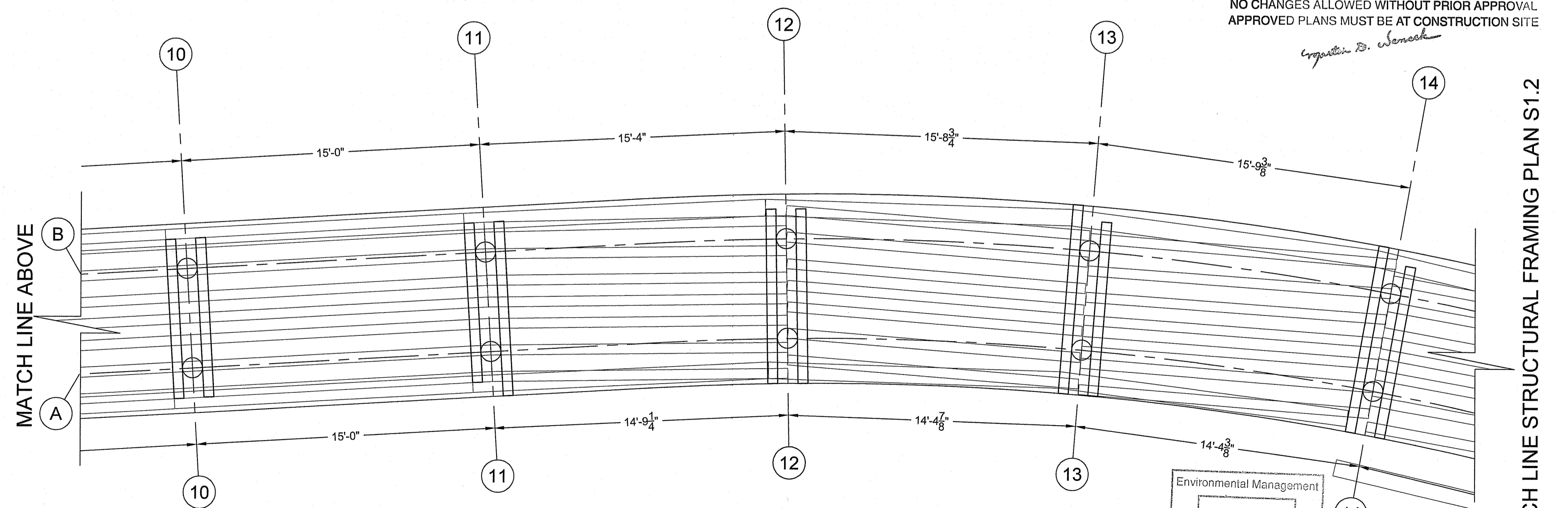
12 OF 19



**PROPOSED FRAMING PLAN - INSET 1**  
SCALE: 1/2" = 1'

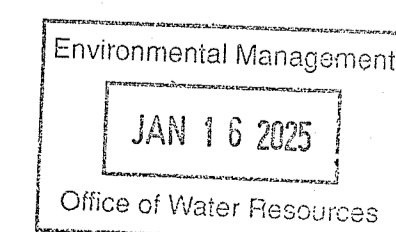
PILE COORDINATES		
BENT 1	PILE A	
	PILE B	
BENT 2	PILE A	
	PILE B	
BENT 3	PILE A	
	PILE B	
BENT 4	PILE A	
	PILE B	
BENT 5	PILE A	
	PILE B	
BENT 6	PILE A	
	PILE B	
BENT 7	PILE A	
	PILE B	
BENT 8	PILE A	
	PILE B	
BENT 9	PILE A	
	PILE B	
BENT 10	PILE A	
	PILE B	
BENT 11	PILE A	
	PILE B	

PILE COORDINATES		
BENT 12	PILE A	
	PILE B	
BENT 13	PILE A	
	PILE B	
BENT 14	PILE A	
	PILE B	



**PROPOSED FRAMING PLAN - INSET 2**  
SCALE: 1/2" = 1'

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
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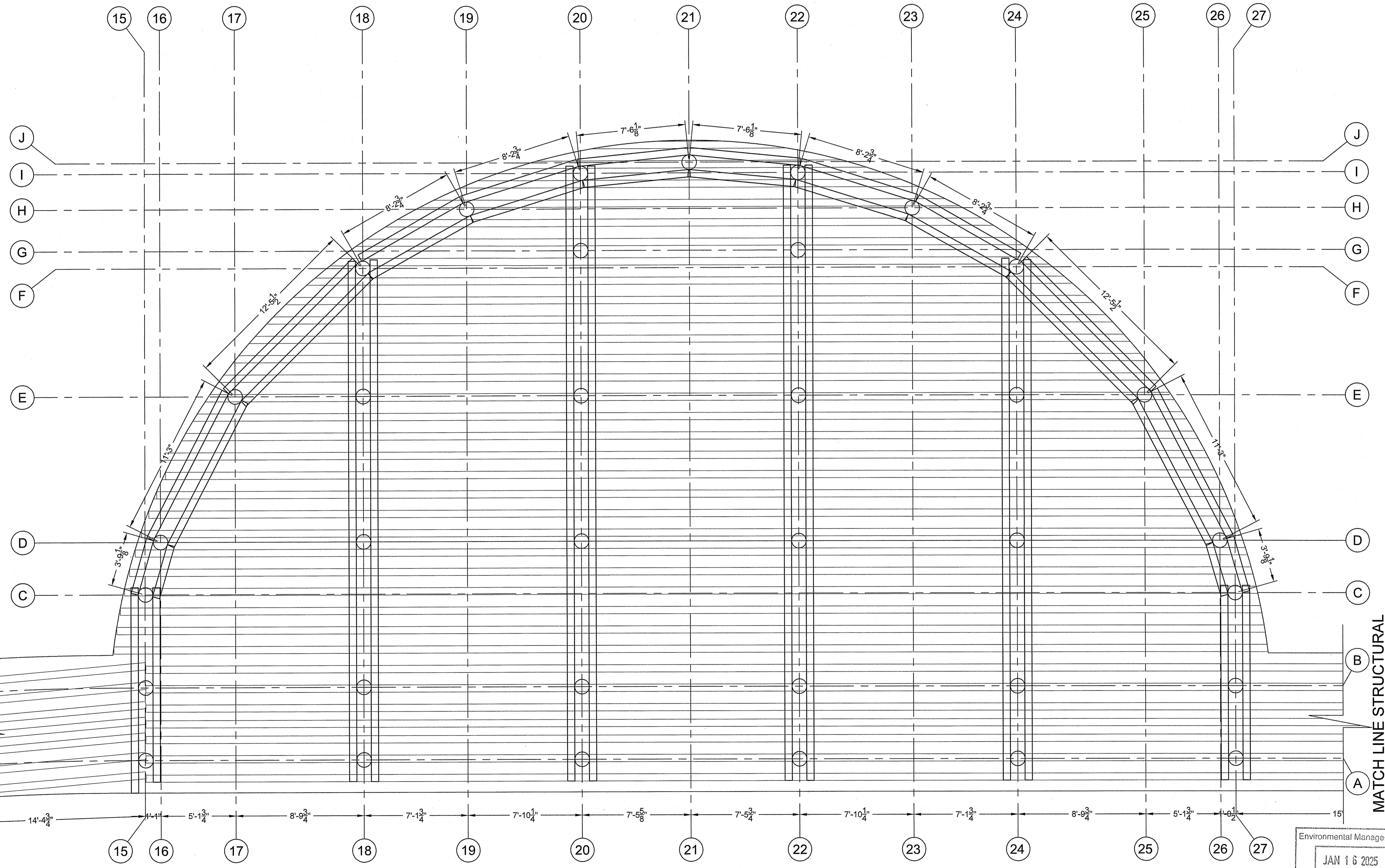
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PILE COORDINATES		
BENT 15	PILE A	
	PILE B	
	PILE C	
BENT 16	PILE D	
BENT 17	PILE E	
BENT 18	PILE A	
	PILE B	
	PILE D	
	PILE E	
	PILE F	
BENT 19	PILE H	
BENT 20	PILE A	
	PILE B	
	PILE D	
	PILE E	
	PILE G	
BENT 21	PILE J	
BENT 22	PILE A	
	PILE B	
	PILE D	
	PILE E	
	PILE G	
	PILE I	

PILE COORDINATES		
BENT 23	PILE H	
BENT 24	PILE A	
	PILE B	
	PILE D	
	PILE E	
	PILE F	

PILE COORDINATES		
BENT 25	PILE E	
BENT 26	PILE D	
BENT 27	PILE A	
	PILE B	
	PILE C	

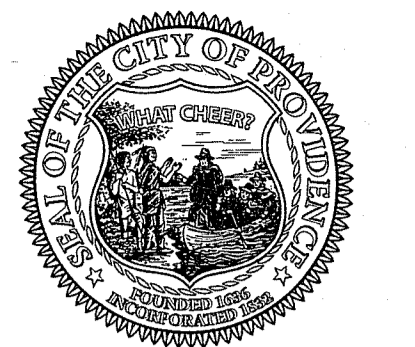
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS  
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PROPOSED FRAMING PLAN - INSET 3  
SCALE: 1/2" = 1'

Environmental Management  
JAN 16 2025  
Office of Water Resources

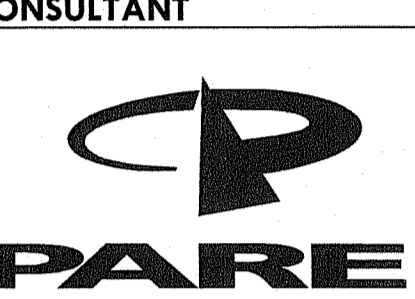
90% RIDEM PERMIT SUBMISSION  
NOT FOR CONSTRUCTION



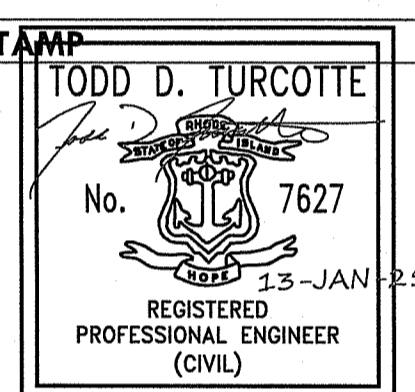
**PROVIDENCE**  
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DALRYMPLE BOATHOUSE  
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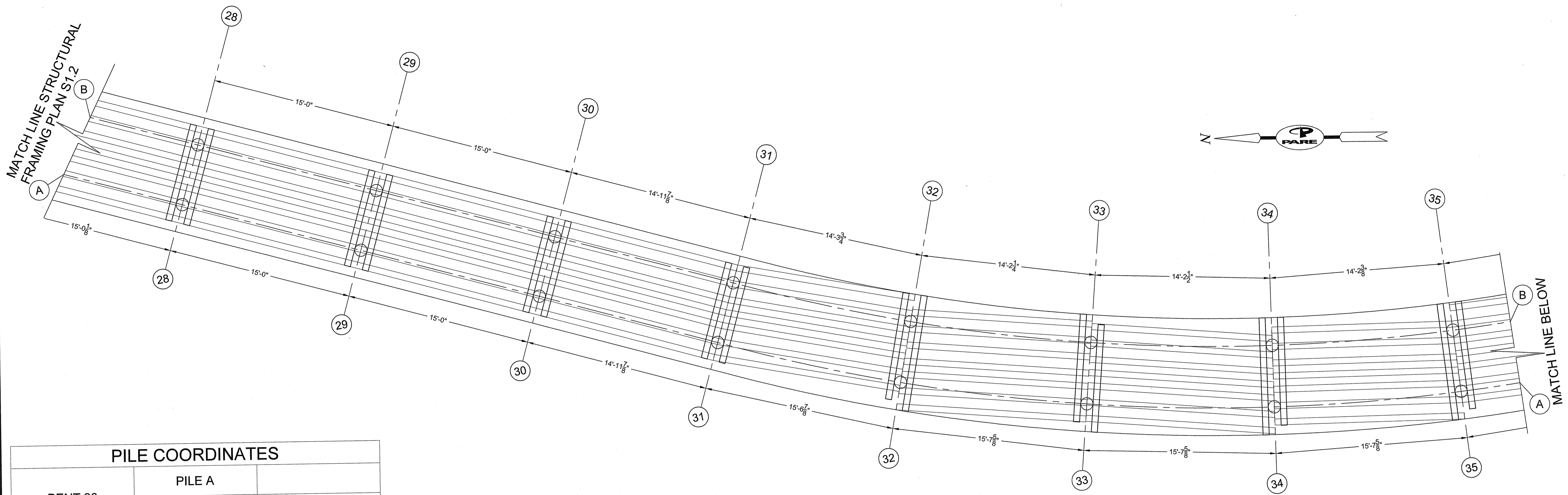
NORTH ARROW

SCALE

**DRAWING INFO**  
DATE ISSUED: 1/13/2025  
PROJECT NO: RWBD.21.01  
DRAWN BY: KAD  
CHECKED BY: TDT

**SHEET TITLE**  
**STRUCTURAL  
FRAMING PLAN II**

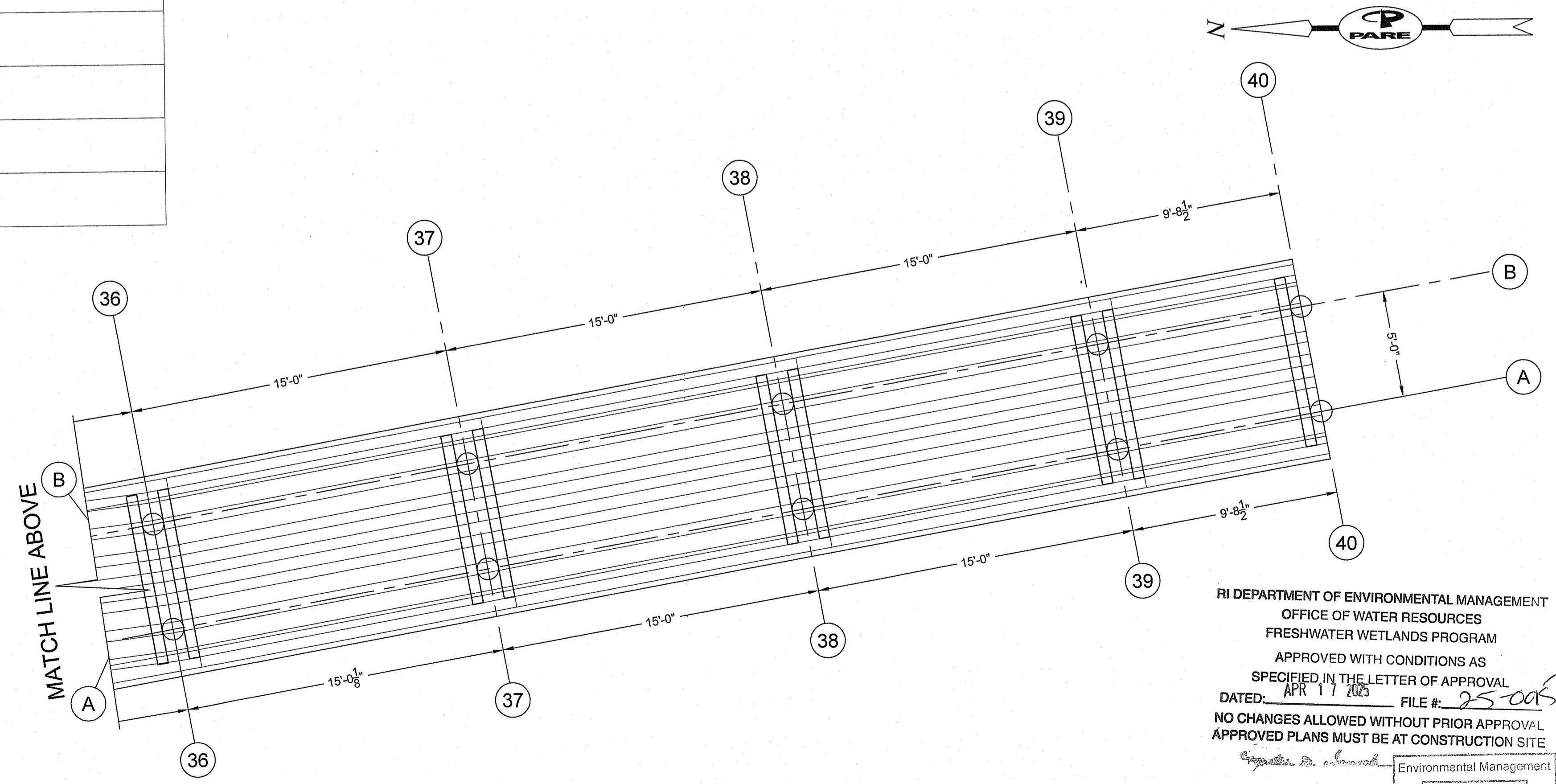
**S1.2**  
13 OF 19



PROPOSED FRAMING PLAN - INSET 4  
SCALE: 1/2" = 1'

PILE COORDINATES		
BENT 28	PILE A	
	PILE B	
BENT 29	PILE A	
	PILE B	
BENT 30	PILE A	
	PILE B	
BENT 31	PILE A	
	PILE B	
BENT 32	PILE A	
	PILE B	
BENT 33	PILE A	
	PILE B	
BENT 34	PILE A	
	PILE B	
BENT 35	PILE A	
	PILE B	
BENT 36	PILE A	
	PILE B	
BENT 37	PILE A	
	PILE B	
BENT 38	PILE A	
	PILE B	

PILE COORDINATES		
BENT 39	PILE A	
	PILE B	
BENT 40	PILE A	
	PILE B	

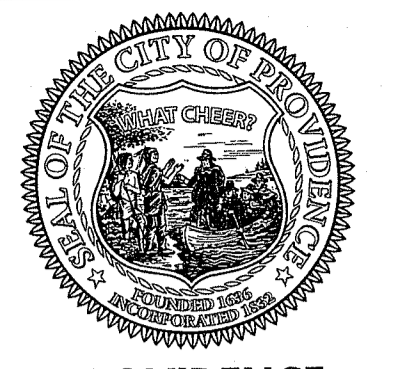


PROPOSED FRAMING PLAN - INSET 5  
SCALE: 1/2" = 1'

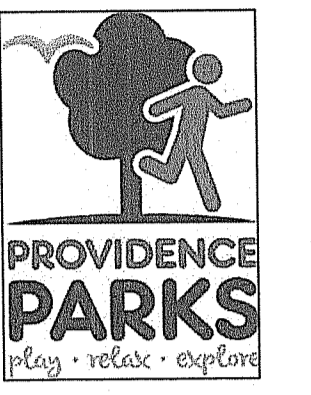
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OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
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SPECIFIED IN THE LETTER OF APPROVAL  
DATED: APR 17 2025 FILE #: 25-005  
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JAN 16 2025  
Office of Water Resources

90% RIDEM PERMIT SUBMISSION  
NOT FOR CONSTRUCTION



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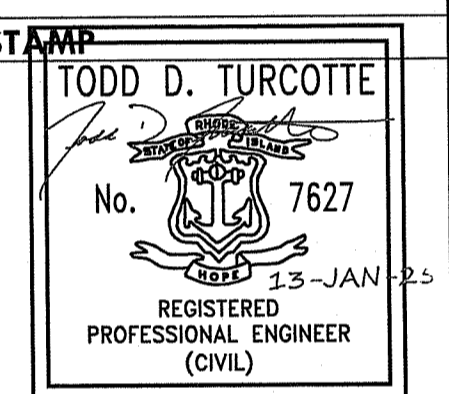


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PROJECT:  
Cunliff Lake Boardwalk  
Improvements at Roger  
Williams Park  
1000 Elmwood Avenue  
A.P. 90, Lot 157  
Providence, RI 02095

REVISIONS:

Date	Issued For:
1/13/2025	Permit Set

NORTH ARROW

SCALE

DRAWING INFO  
DATE ISSUED: 1/13/2025  
PROJECT NO: RWBD.21.01  
DRAWN BY: KAD  
CHECKED BY: TDT

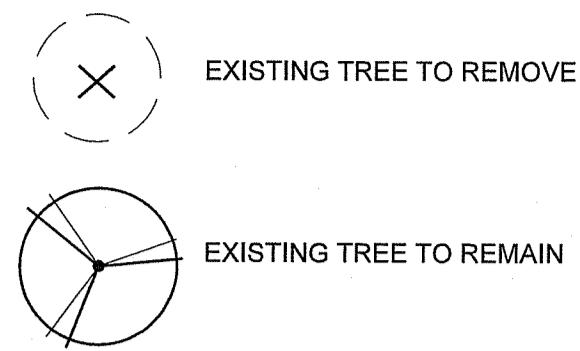
SHEET TITLE  
STRUCTURAL  
FRAMING PLAN III

S1.3

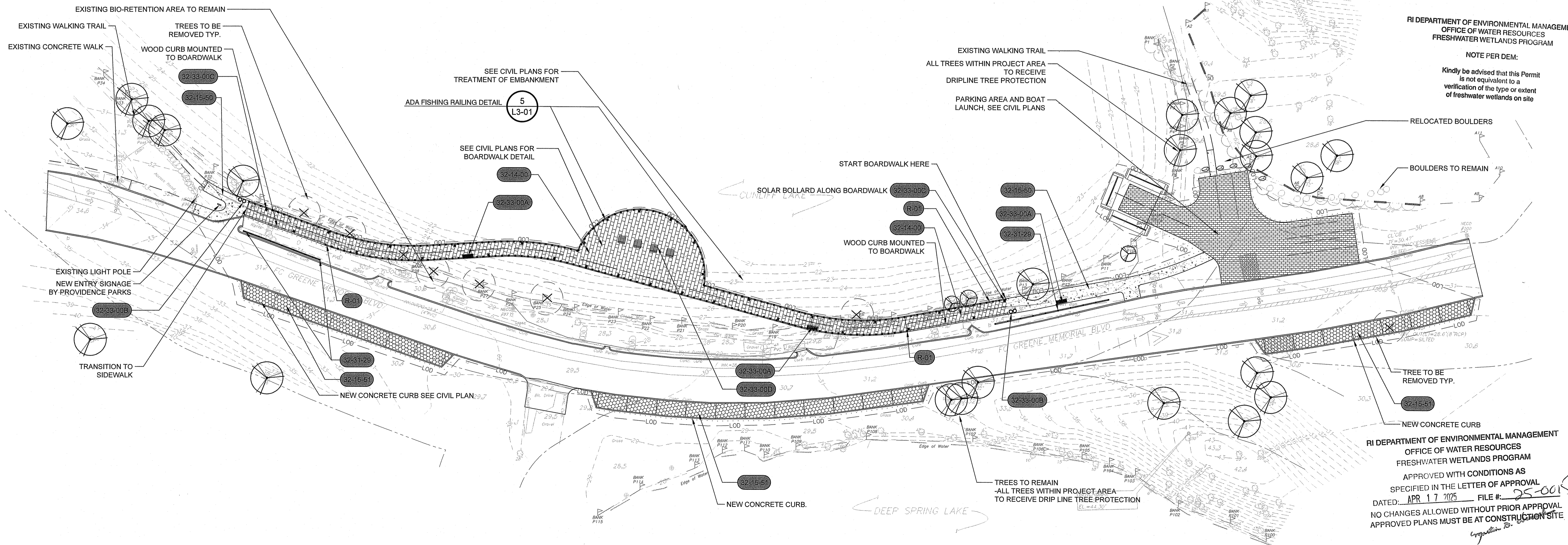
14 OF 19

**REFERENCE NOTES SCHEDULE**

SYMBOL	CODE	DESCRIPTION	QTY	DETAIL
<b>UNIT PAVING</b>				
		Wood Boardwalk, See Civil Plans	6,608 sf	
<b>AGGREGATE SURFACE</b>				
		Pervious Walkways, See Civil Plans	1,405 sf	
		Pervious Parking, See Civil Plans	4,163 sf	
<b>FENCES AND GATES</b>				
		Timber Guardrail, See Civil Plans	139 lf	
<b>SITE FURNISHINGS</b>				
	32-33-00A	Bench	3	1/L3-02
	32-33-00B	Litter/Recycle Receptacle	4	2/L3-02
	32-33-00C	Solar Light Bollard	30	6/L3-02
	32-33-00D	BLOC Sun Bench	4	3/L3-02
<b>RAIL</b>				
	R-01	Cable Railing	880 lf	4/L3-01



- NOTES:**
- SEE CIVIL PLANS FOR BOARDWALK MATERIALS, LAYOUT AND DETAILS.
  - SEE CIVIL PLANS FOR ALL PERVIOUS PAVE.
  - SEE CIVIL PLAN FOR THE TIMBER GUARDRAIL DETAIL.
  - SEE CIVIL PLANS FOR ALL BOAT LAUNCH DETAILS.
  - GEO-GRADE PAVING SYSTEM, SEE CIVIL PLANS.

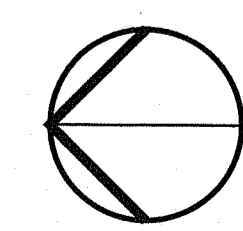
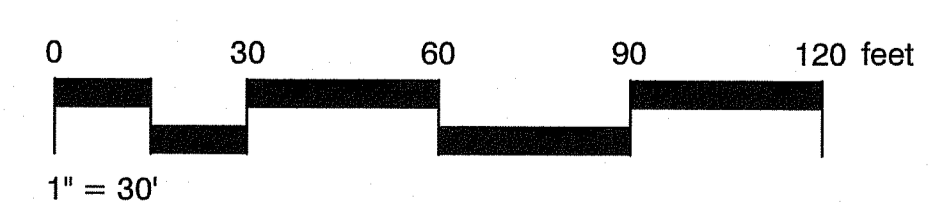


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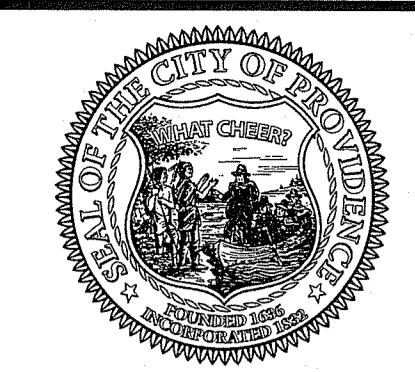
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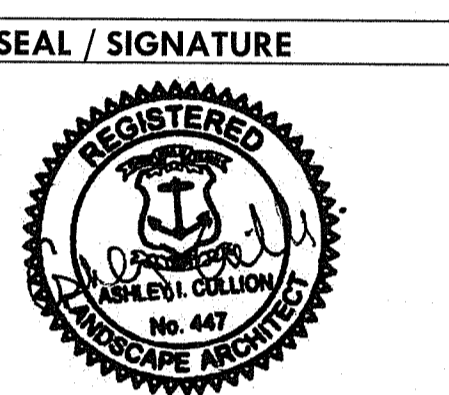
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**CONSULTANT**

**TRAVERSE**  
landscape architects



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FRESHWATER WETLANDS PROGRAM

**PROJECT:**

**Cunliff Lake Boardwalk Improvements at Roger Williams Park**  
1000 Elmwood Avenue  
A.P. 90, Lot 157  
Providence, RI 02905

**REVISIONS:**

Date	Issued For:
1/13/2025	PERMIT SET

**NORTH ARROW**

**AS SHOWN ON PLAN**

**SCALE**

**AS SHOWN ON PLAN**

**DRAWING INFO**

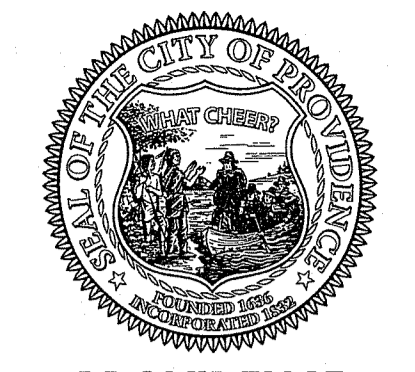
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CHECKED BY: AIC

**SHEET TITLE**

**HARDSCAPE PLAN**

**L1-21**

15 OF 19



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NORTH ARROW

AS SHOWN  
 ON PLAN

SCALE

AS SHOWN  
 ON PLAN

DRAWING INFO

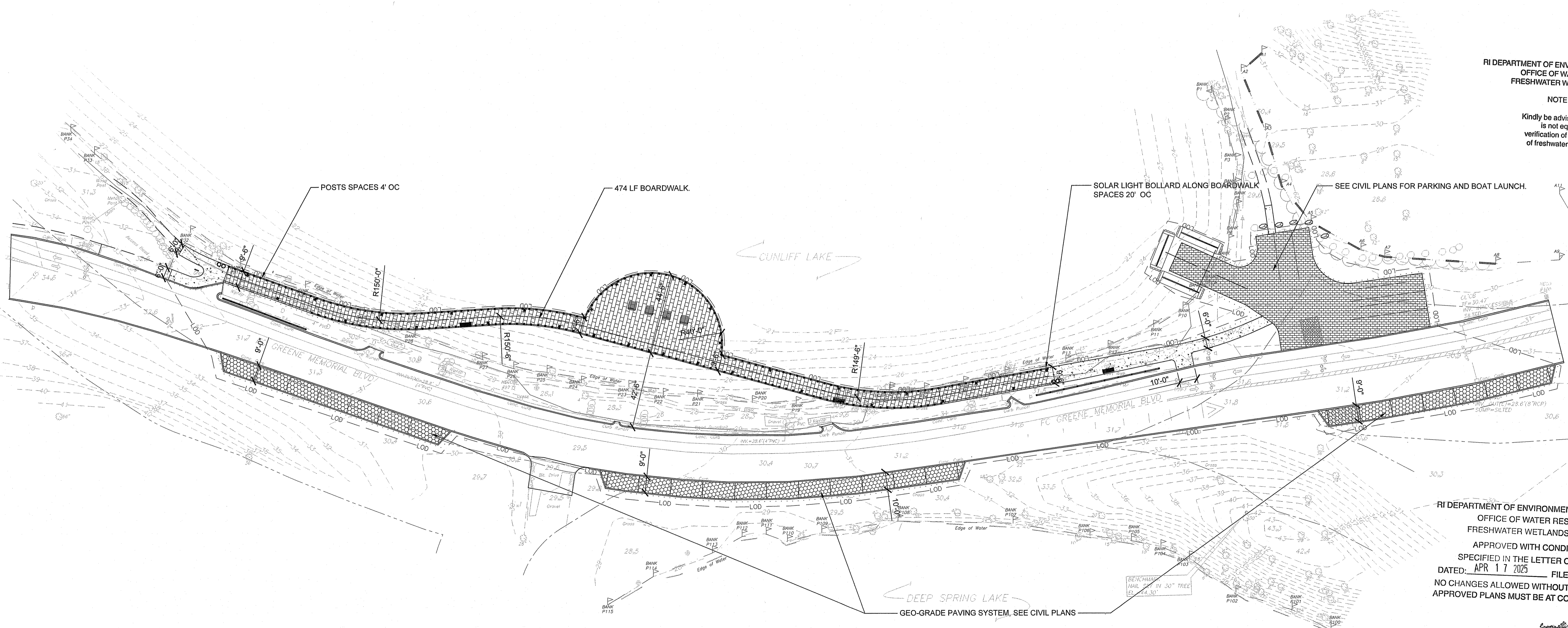
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 PROJECT NO: RWBD.21.01  
 DRAWN BY: HW EL  
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SHEET TITLE

**LAYOUT  
 PLAN**

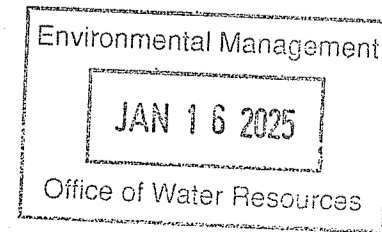
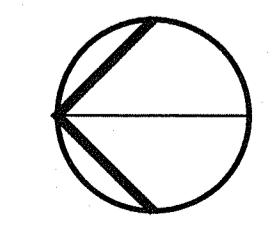
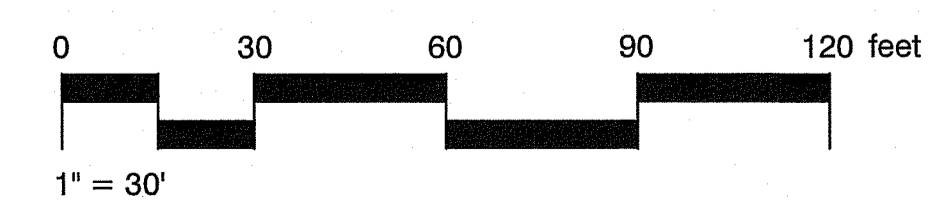
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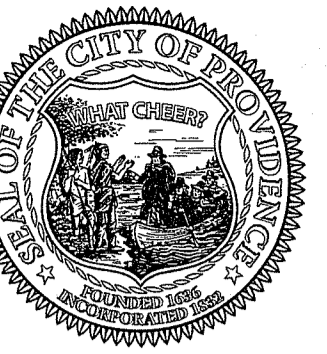
16 OF 19



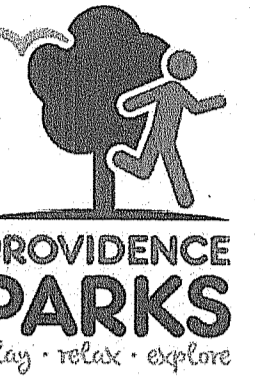
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*Signature*





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PROJECT:

**Cunliff Lake Boardwalk  
Improvements at Roger  
Williams Park**

1000 Elmwood Avenue  
A.P. 90, Lot 157  
Providence, RI 02095

REVISIONS:

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NORTH ARROW

AS SHOWN  
ON PLAN

SCALE

AS SHOWN  
ON PLAN

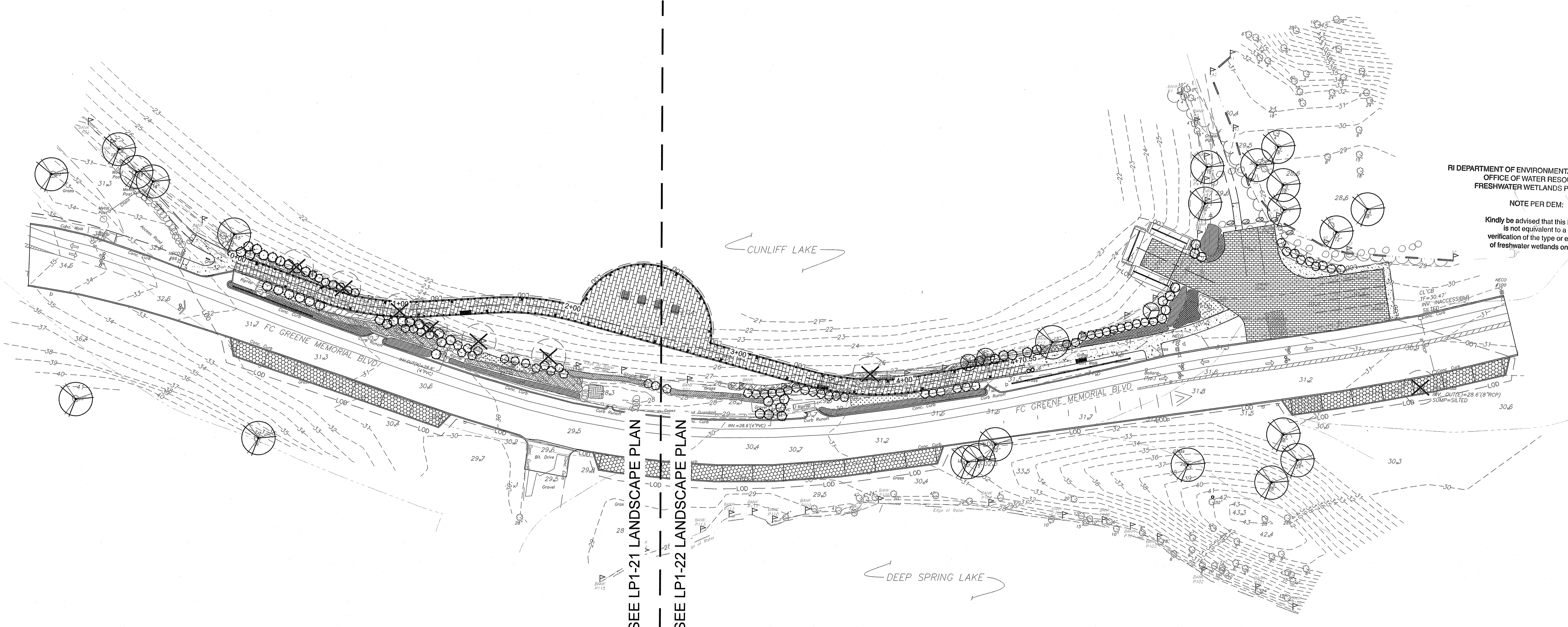
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PROJECT NO: RWBD.21.01  
DRAWN BY: HW EL  
CHECKED BY: AIC

SHEET TITLE

**OVERALL  
LANDSCAPE  
PLAN  
LP1-01**

17 OF 19

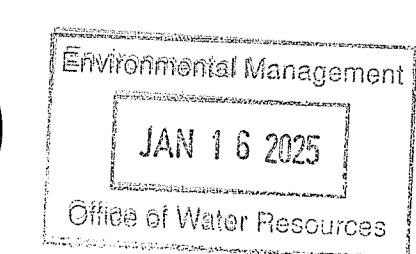
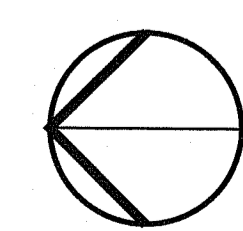
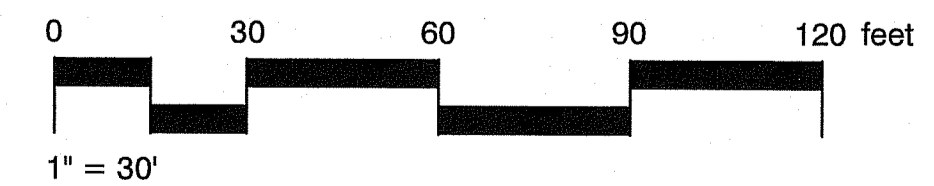


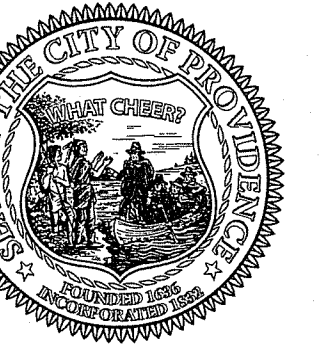
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PROJECT:

**Cunliff Lake Boardwalk Improvements at Roger Williams Park**

1000 Elmwood Avenue  
A.P. 90, Lot 157  
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NORTH ARROW

AS SHOWN ON PLAN

SCALE

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SHEET TITLE

**LANDSCAPE PLAN**

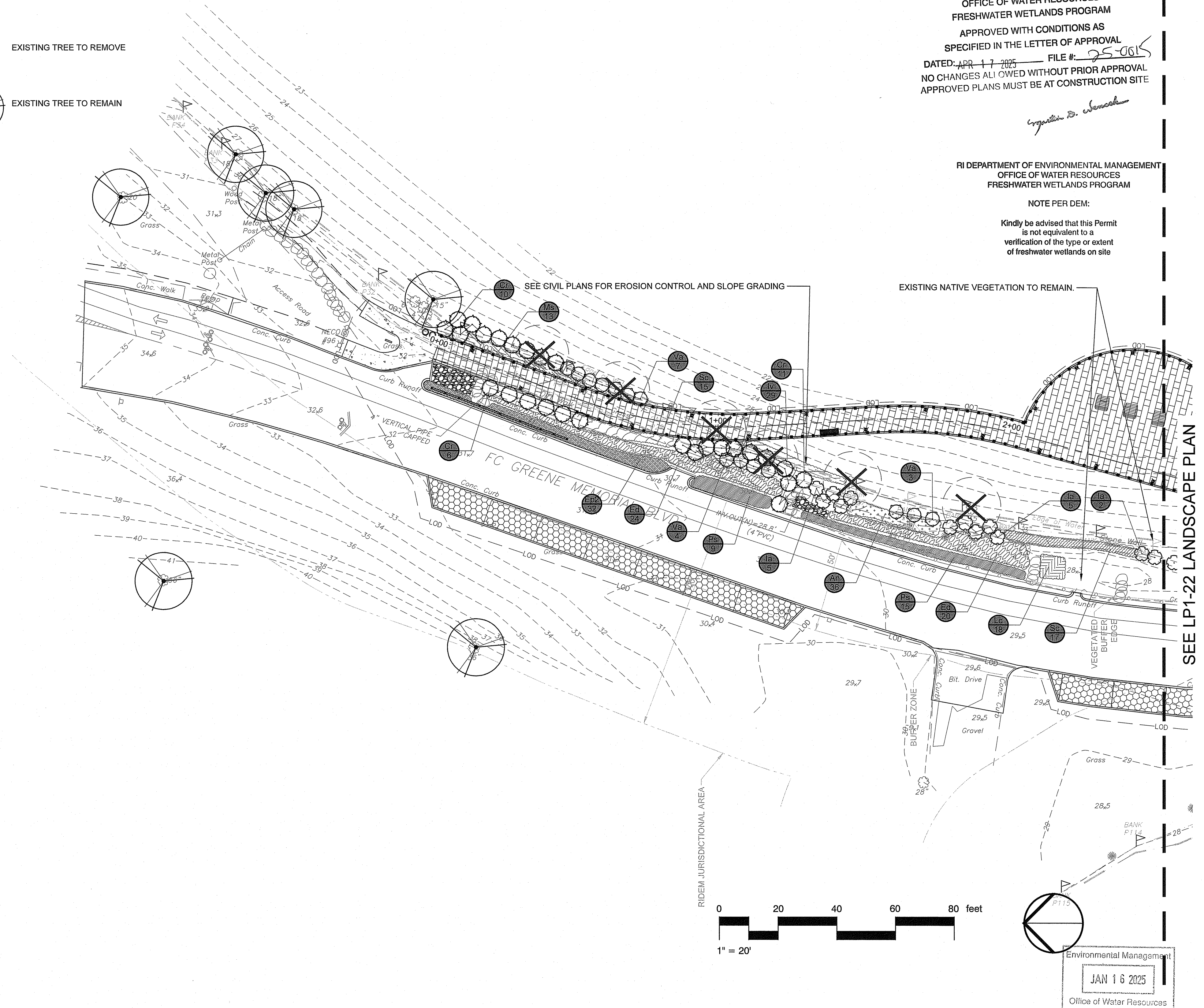
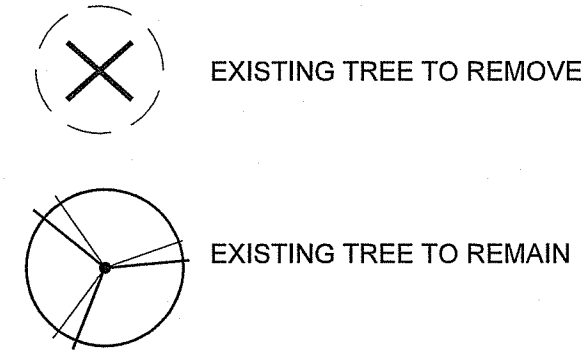
**LP1-21**

18 OF 19

**PLANT SCHEDULE LP1-21**

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SPACING
<b>SHRUBS</b>					
	Cr	27	Cornus sericea 'Cardinal' / Cardinal Red Twig Dogwood	#5	
	Ia	12	Ilex verticillata 'Afterglow' / Afterglow Winterberry	#5	
	Va	14	Viburnum dentatum / Viburnum	#5	
<b>GROUND COVERS</b>					
	An	36	Aster novi-belgii 'Professor Anton Kippenberg' / New York Aster	#1	24" o.c.
	Ep2	32	Echinacea purpurea 'Pica Bella' / Pica Bella Coneflower	#1	36" o.c.
	Ed	44	Eupatorium dubium / Joe Pye Weed	#1	48" o.c.
	Iv	29	Iris versicolor / Blue Flag	#1	24" o.c.
	Lc	18	Lobelia cardinalis / Cardinal Flower	#1	24" o.c.
	Ms	13	Matteuccia struthiopteris / Ostrich Fern	#1	36" o.c.
	Ps	24	Panicum virgatum 'Shenandoah' / Shenandoah Switch Grass	#1	48" o.c.
	Sc	32	Sorghastrum nutans 'Indian Steel' / Indian Steel Indian Grass	#1	36" o.c.

NOTES:  
1. SEE CIVIL PLANS FOR ALL EROSION CONTROL AND GRADING.



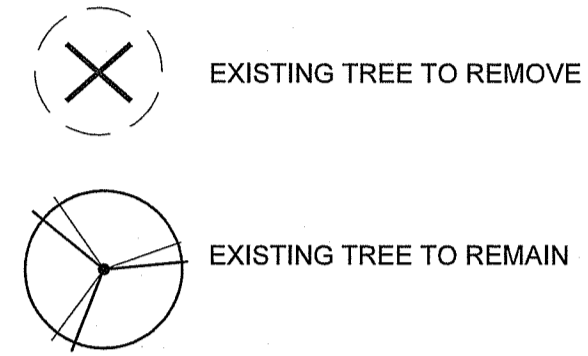
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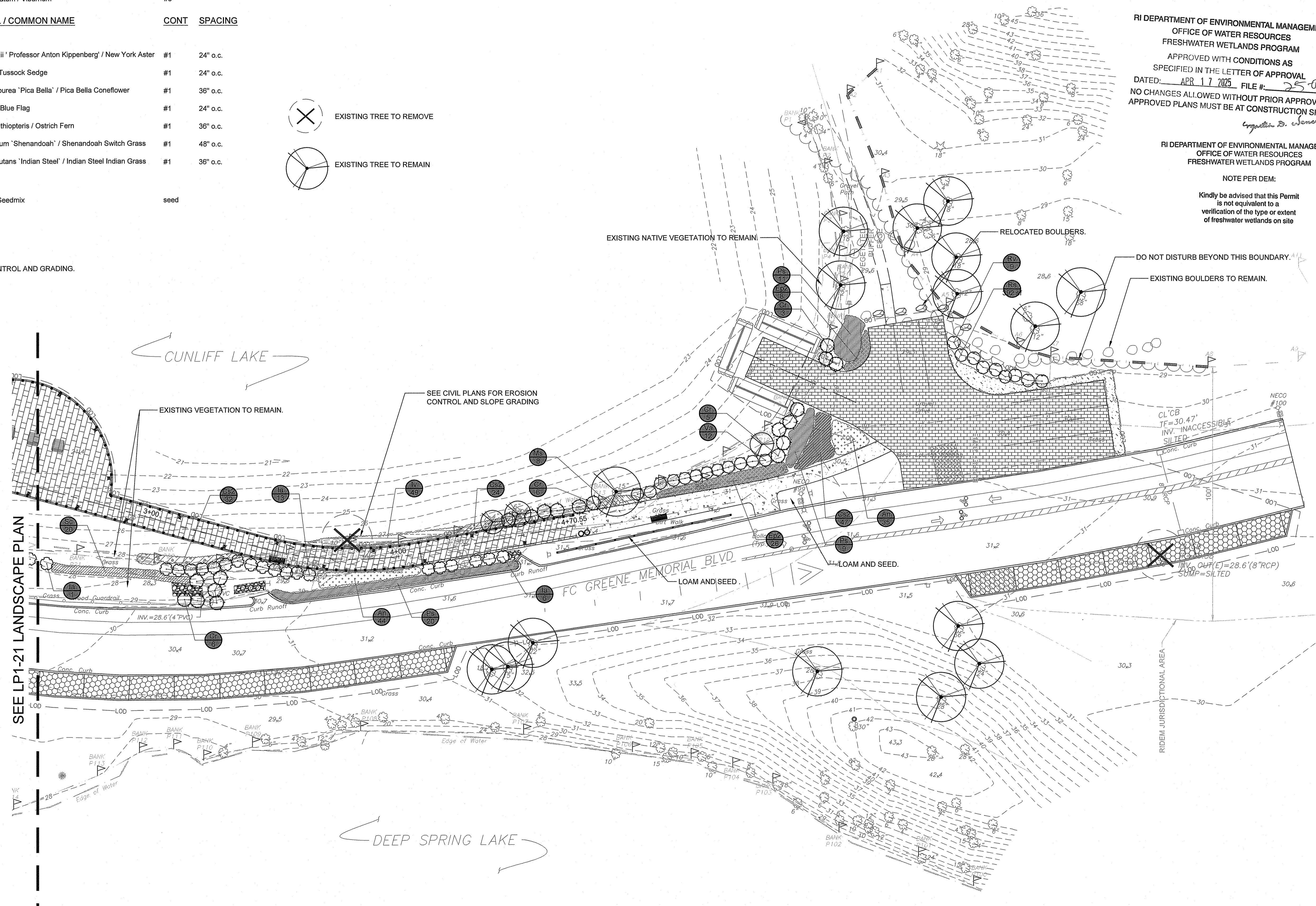
SEE LP1-22 LANDSCAPE PLAN

PLANT SCHEDULE LP1-22

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SPACING
<b>SHRUBS</b>					
	Cr	20	Cornus sericea 'Cardinal' / Cardinal Red Twig Dogwood	#5	
	Ia	20	Ilex verticillata 'Afterglow' / Afterglow Winterberry	#5	
	Rv	9	Rhododendron viscosum / Swamp Azalea	#5	
	Va	12	Viburnum dentatum / Viburnum	#5	
<b>GROUND COVERS</b>					
	An	79	Aster novi-belgii 'Professor Anton Kippenberg' / New York Aster	#1	24" o.c.
	Cs2	103	Carex stricta / Tussock Sedge	#1	24" o.c.
	Ep2	34	Echinacea purpurea 'Pica Bella' / Pica Bella Coneflower	#1	36" o.c.
	Iv	49	Iris versicolor / Blue Flag	#1	24" o.c.
	Ms	8	Matteuccia struthiopteris / Ostrich Fern	#1	36" o.c.
	Ps	40	Panicum virgatum 'Shenandoah' / Shenandoah Switch Grass	#1	48" o.c.
	Sc	20	Sorghastrum nutans 'Indian Steel' / Indian Steel Indian Grass	#1	36" o.c.
<b>SEED MIXES</b>					
	Rs	392 sf	/ Restoration Seedmix	seed	

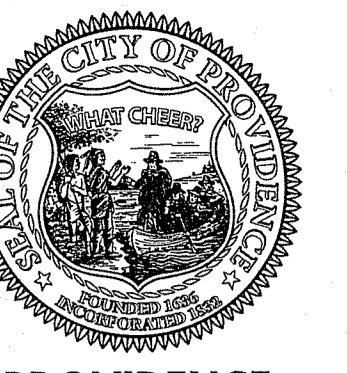


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*Erin D. Sanchez*

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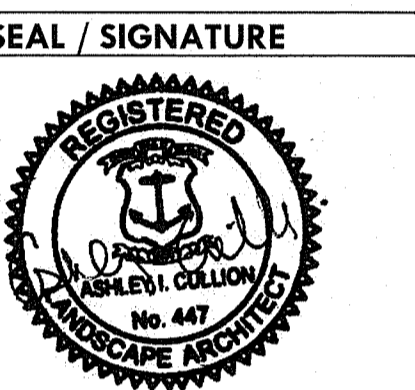


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**NORTH ARROW**

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ON PLAN**

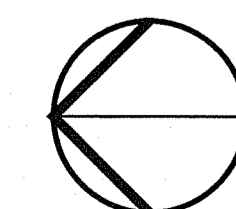
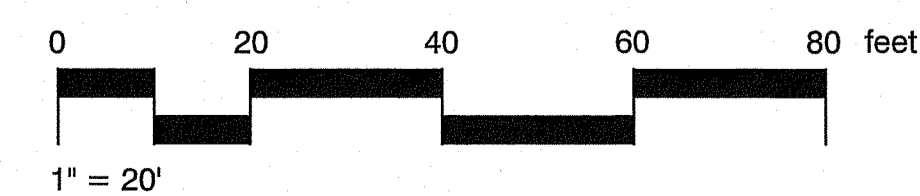
**SCALE**

**AS SHOWN  
ON PLAN**

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CHECKED BY: AIC

**SHEET TITLE**  
**LANDSCAPE  
PLAN**

**LP1-22**



Environmental Management  
JAN 16 2025  
Office of Water Resources