

URI/SOUTH COUNTY BIKE PATH CONNECTOR

University of Rhode Island

KINGSTON, RHODE ISLAND

OWNER / APPLICANT:

UNIVERSITY OF RHODE ISLAND
OFFICE OF CAPITAL PROJECTS

60 TOOTELL ROAD
KINGSTOWN, RI 02881

TEL: 401.874.2725
www.uri.edu

CIVIL ENGINEER:

PARE CORPORATION

8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865

TEL: 401.334.4100
www.parecorp.com

LANDSCAPE ARCHITECT:

SASAKI

64 PLEASANT STREET
WATERTOWN, MA 02472

617.926.3300
www.sasaki.com

MEP ENGINEER:

BUILDING ENGINEERING RESOURCES, INC.

66 MAIN STREET
NORTH EASTON, MA 02356

TEL: 508.230.0260
www.ber-engineering.com

SURVEYOR:

DIPRETE ENGINEERING

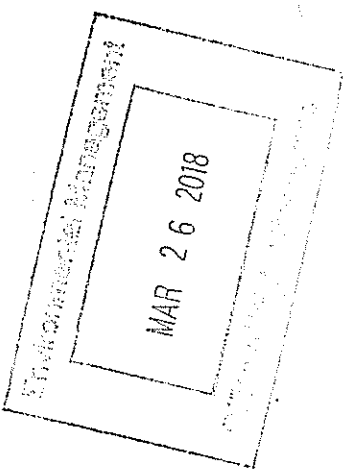
TWO STAFFORD COURT
CRANSTON, RI 02920

TEL: 401.943.1000
www.diprete-eng.com



SCALE: 1"=700'

**RIDEM PRELIMINARY DETERMINATION SUBMISSION
MARCH 21, 2018**



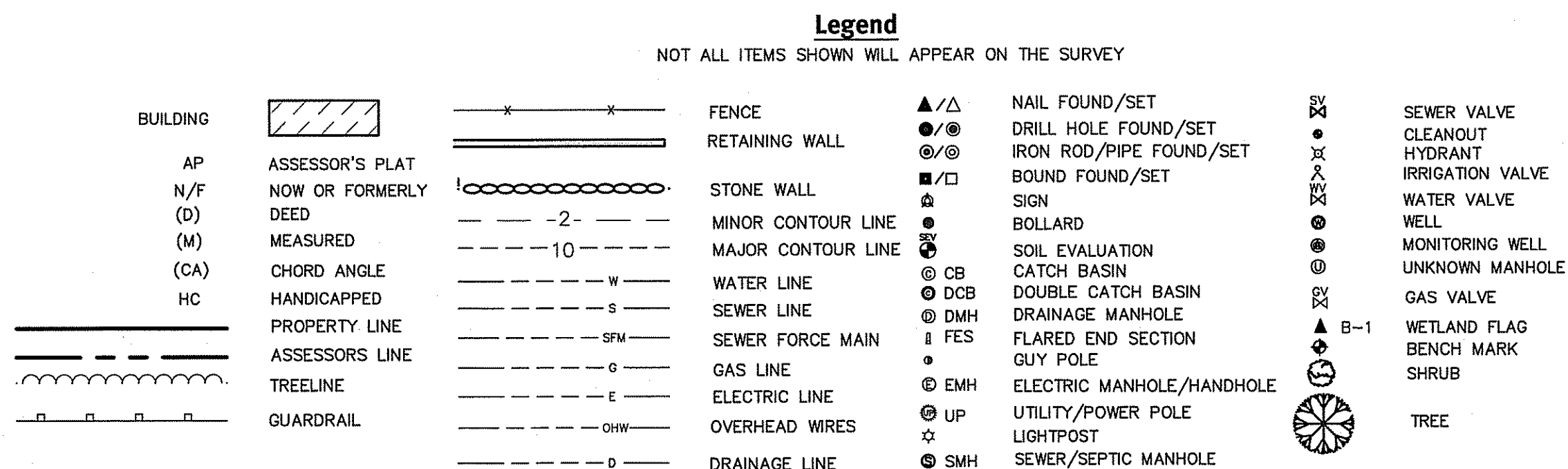
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Permit is not equivalent to a
verification of the type or extent
of freshwater wetlands on site.

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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 06 2018 FILE # 18-0003
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Martin D. Wenczek

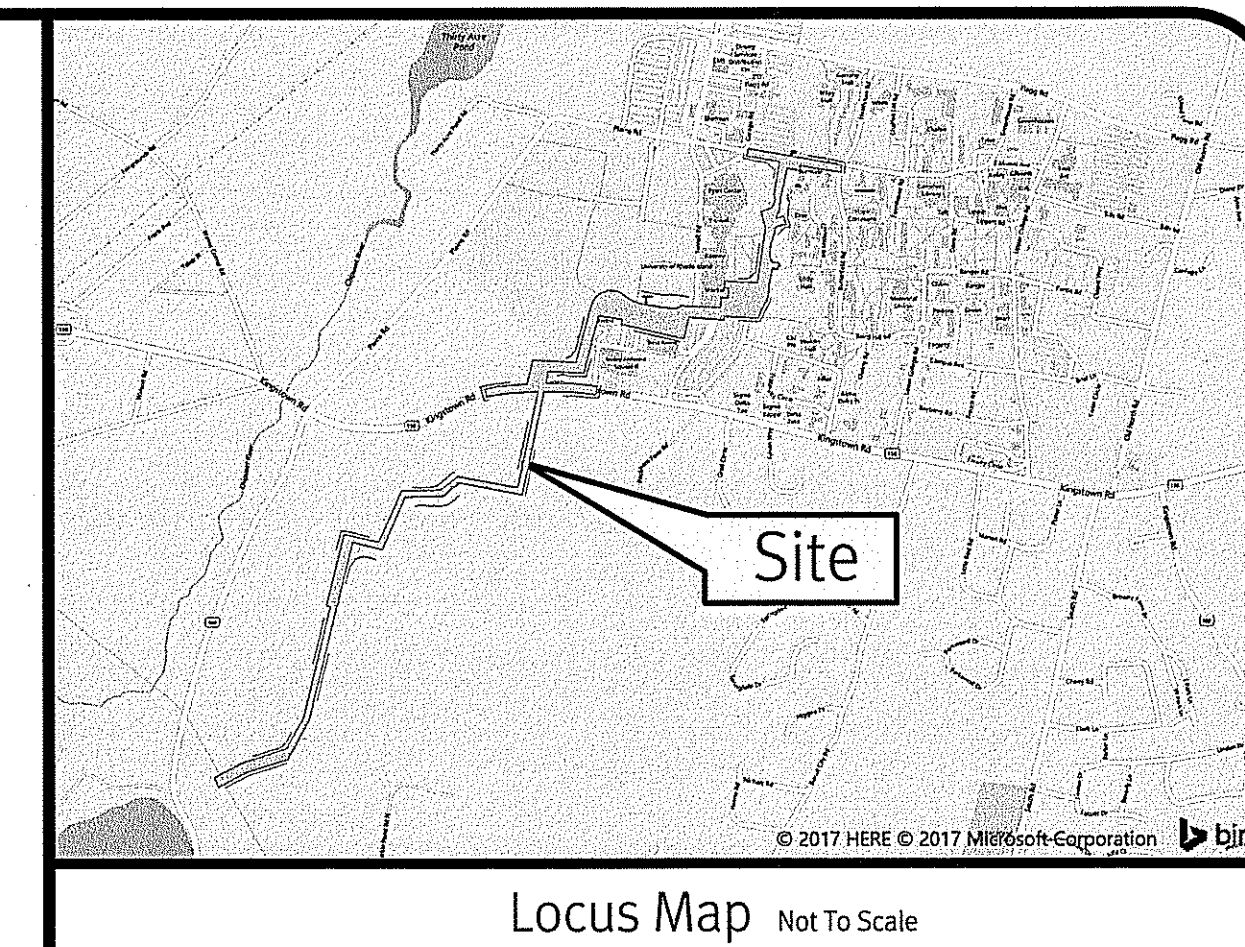


- General Notes**
1. THE SURVEY AREA IS FOUND IN THE TOWN OF SOUTH KINGSTOWN, WASHINGTON COUNTY, RHODE ISLAND.
 2. FIELD SURVEY PERFORMED BY DIPRETE ENGINEERING IN OCTOBER OF 2017. THIS PLAN REFLECTS ON THE GROUND CONDITIONS AS OF THAT DATE.
 3. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT. DIPRETE ENGINEERING IS NOT RESPONSIBLE FOR ANY UNKNOWN OR UNRECORDED EASEMENTS, DEEDS OR CLAIMS THAT A TITLE REPORT WOULD DISCLOSE.
 4. SITE FEATURES AND TOPOGRAPHY BASED ON AERIAL PHOTOGRAMMETRY PERFORMED BY AEROTECH INTERNATIONAL FROM IMAGERY TAKEN ON APRIL 15, 2011.

Datum Note:

1. ELEVATIONS SHOWN HEREIN, IN U.S. SURVEY FEET, ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM DATUM OF 1988 (NGVD 29), AS DETERMINED BY DIPRETE ENGINEERING USING REAL TIME KINEMATIC G.P.S. OBSERVATIONS.

- Utility Notes**
1. ALL UNDERGROUND UTILITIES SHOWN ON THIS PLAN WERE PROVIDED BY OTHERS AND ARE APPROXIMATE ONLY. LOCATIONS MUST BE DETERMINED IN THE FIELD BEFORE DESIGNING, EXCAVATION, BLASTING, INSTALLING, BACKFILLING, GRADING, PAVEMENT RESTORATION OR REPAIRING. ALL UTILITY COMPANIES, PUBLIC AND PRIVATE, MUST BE CONTACTED INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THIS SURVEY. (PLEASE CONTACT DISAFAE 72 WORKING HOURS PRIOR TO ANY CONSTRUCTION AT 1-888-344-7233). DIPRETE ENGINEERING IS NOT RESPONSIBLE FOR MISSING UNDERGROUND UTILITIES, EITHER IN SERVICE OR ABANDONED, NOT OBSERVED AT THE TIME OF THE SURVEY. DIPRETE ENGINEERING ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN.
 2. UNDERGROUND UTILITY LOCATION BASED ON PLANS OF RECORD ONLY AND SHOULD BE CONSIDERED APPROXIMATE.
 3. UNDERGROUND DRAINAGE ONLY OBTAINED WITH AREA OF SURVEY LIMITS UNDERGROUND PIPES NOT SOURCED TO THEIR ORIGINS OUTSIDE OF LIMITS.
 4. UNDERGROUND WATER, SEWER AND GAS LOCATIONS ARE BASED ON PLANS OF RECORD ONLY. UNKNOWN LOCATIONS WERE NO UTILITIES SHOWN.



Certification

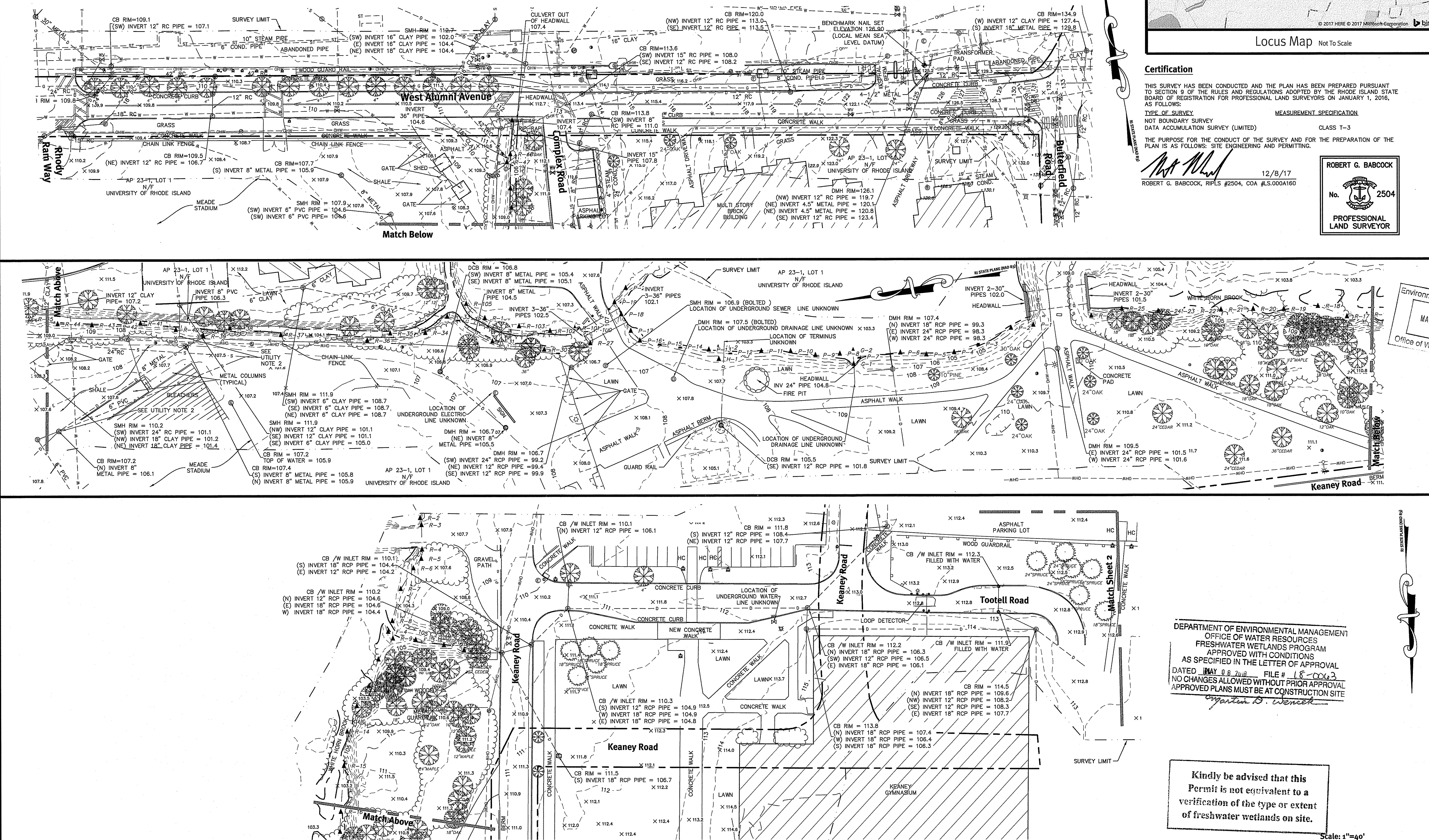
THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO SECTION 9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON JANUARY 1, 2016, AS FOLLOWS:

TYPE OF SURVEY: NOT BOUNDARY SURVEY
MEASUREMENT SPECIFICATION: DATA ACCUMULATION SURVEY (LIMITED) CLASS T-3

THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS: SITE ENGINEERING AND PERMITTING.

12/8/17
ROBERT G. BABCOCK, RIPLS #2504, COA #LS.000A160

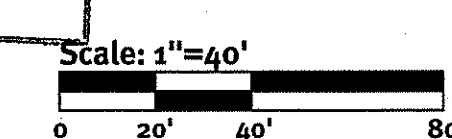
ROBERT G. BABCOCK
No. 2504
PROFESSIONAL LAND SURVEYOR



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Jonathan D. Wenczek

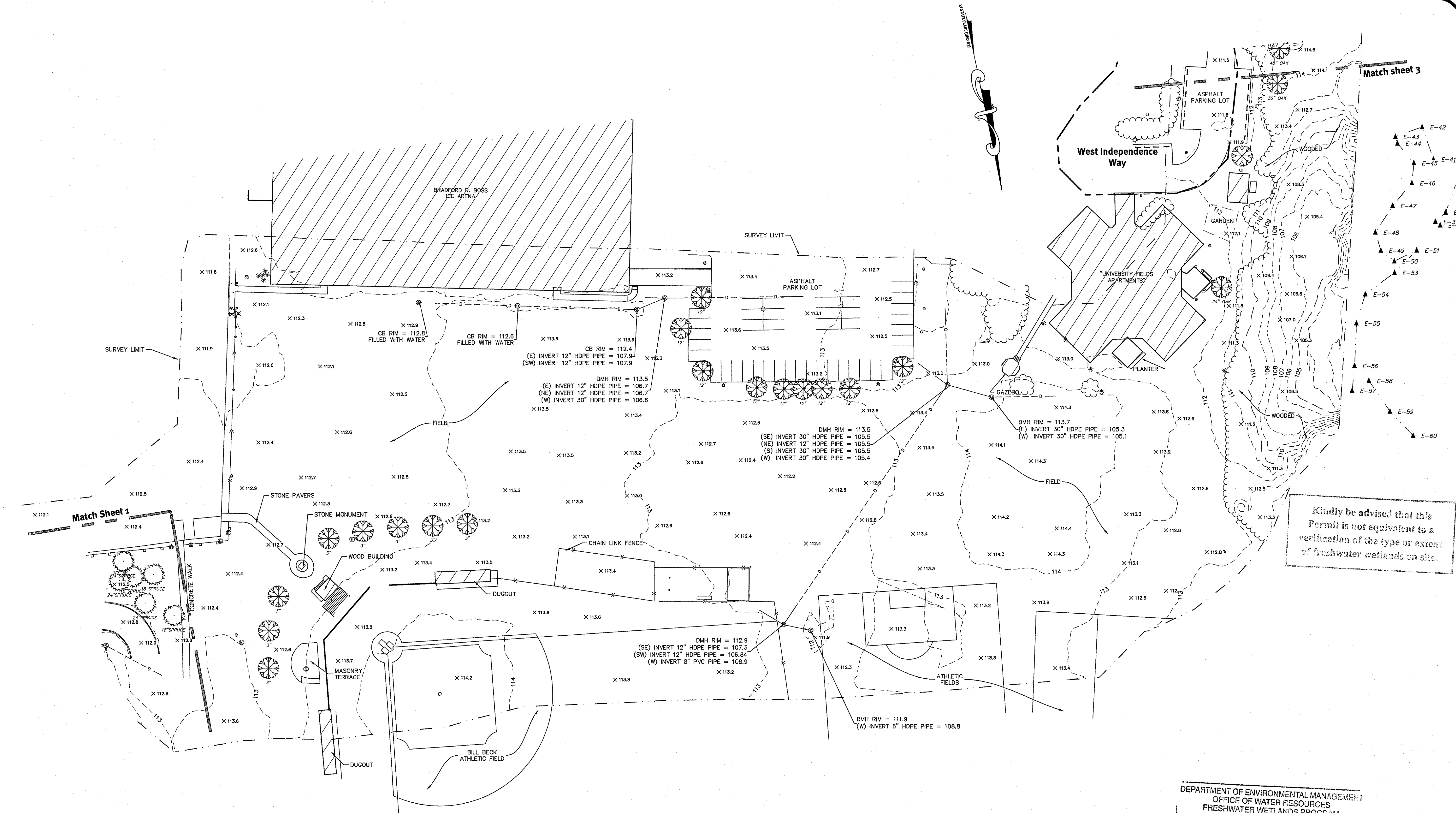
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of freshwater wetlands on site.



Existing Conditions Plan
URI Bike Path
South Kingstown, Rhode Island

Client:
Sasaki Associates, Inc.
64 Pleasant Street
Watertown, MA 02472

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Myartin D. Wencel

Environmental Management
MAR 26 2018
Office of Water Resources

Scale: 1"=40'
0 20' 40' 80'

Existing Conditions Plan
URI Bike Path
South Kingstown, Rhode Island

Client
Sasaki Associates, Inc.
4 Pleasant Street
Watertown, MA 02472
DE Job No: 2400-001-002 Copyright 2017 by DiPrete Engineering Associates, Inc.

SHEET 2 OF 6
Sheet No: 3 Of 64

DiPrete Engineering

Two Stafford Court Cranston, RI 02920
tel 401-943-1000 fax 401-664-6006 www.diprete-eng.com

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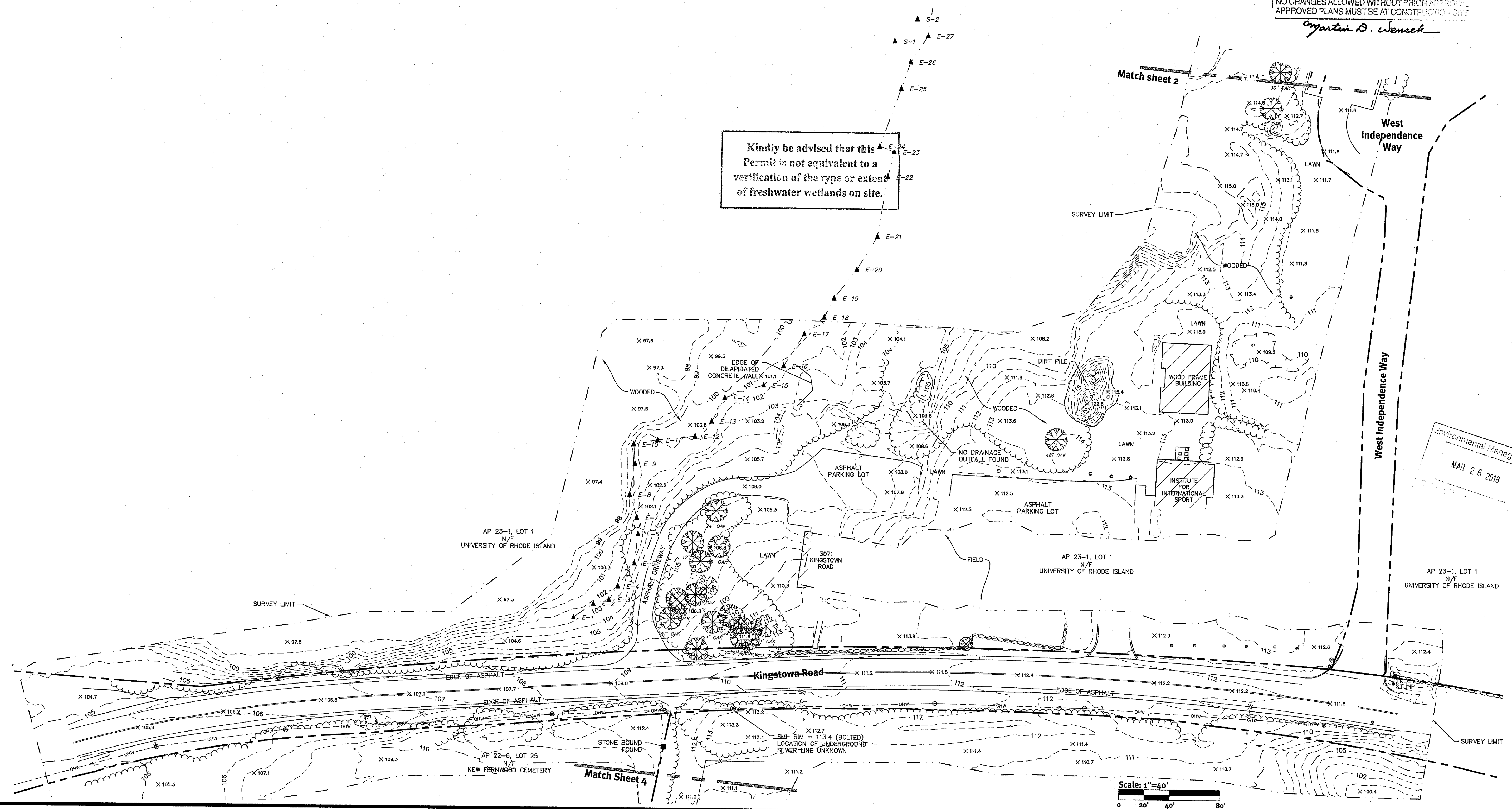
No.	Date	Description	Drawn By	MTI	By:
1	10/17/17	Topographic Survey			
2	12/17/17	Final Survey			



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Signature

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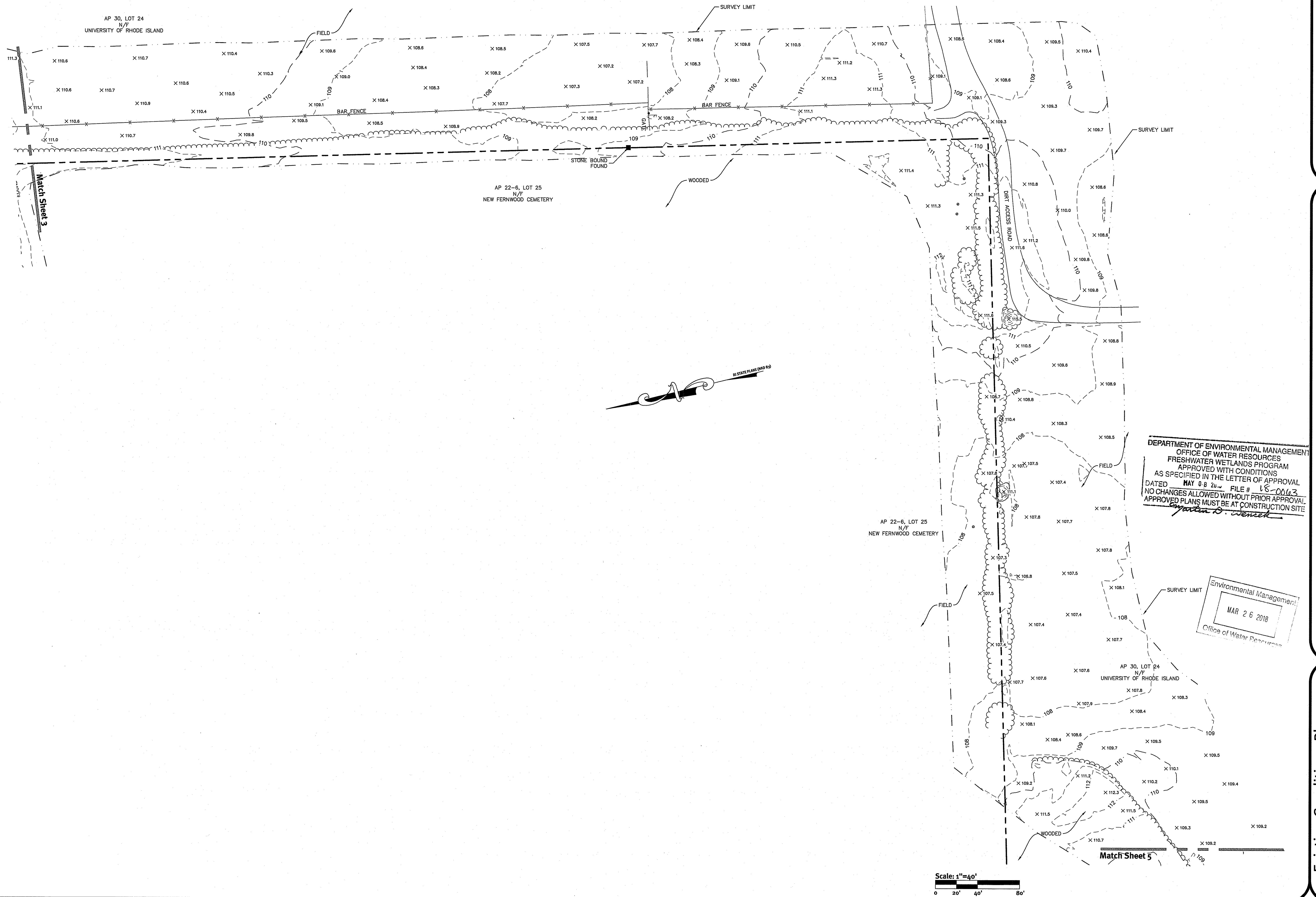


No.	Date	Description	MT	BY
1	12/7/12	Topographic Survey	MT	
2	07/12	Topographic Survey	MT	

Client: **Sasaki Associates, Inc.**
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Watertown, MA 02472
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Existing Conditions Plan
URI Bike Path

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Existing Conditions Plan
URI Bike Path

Client
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South Kingstown, Rhode Island
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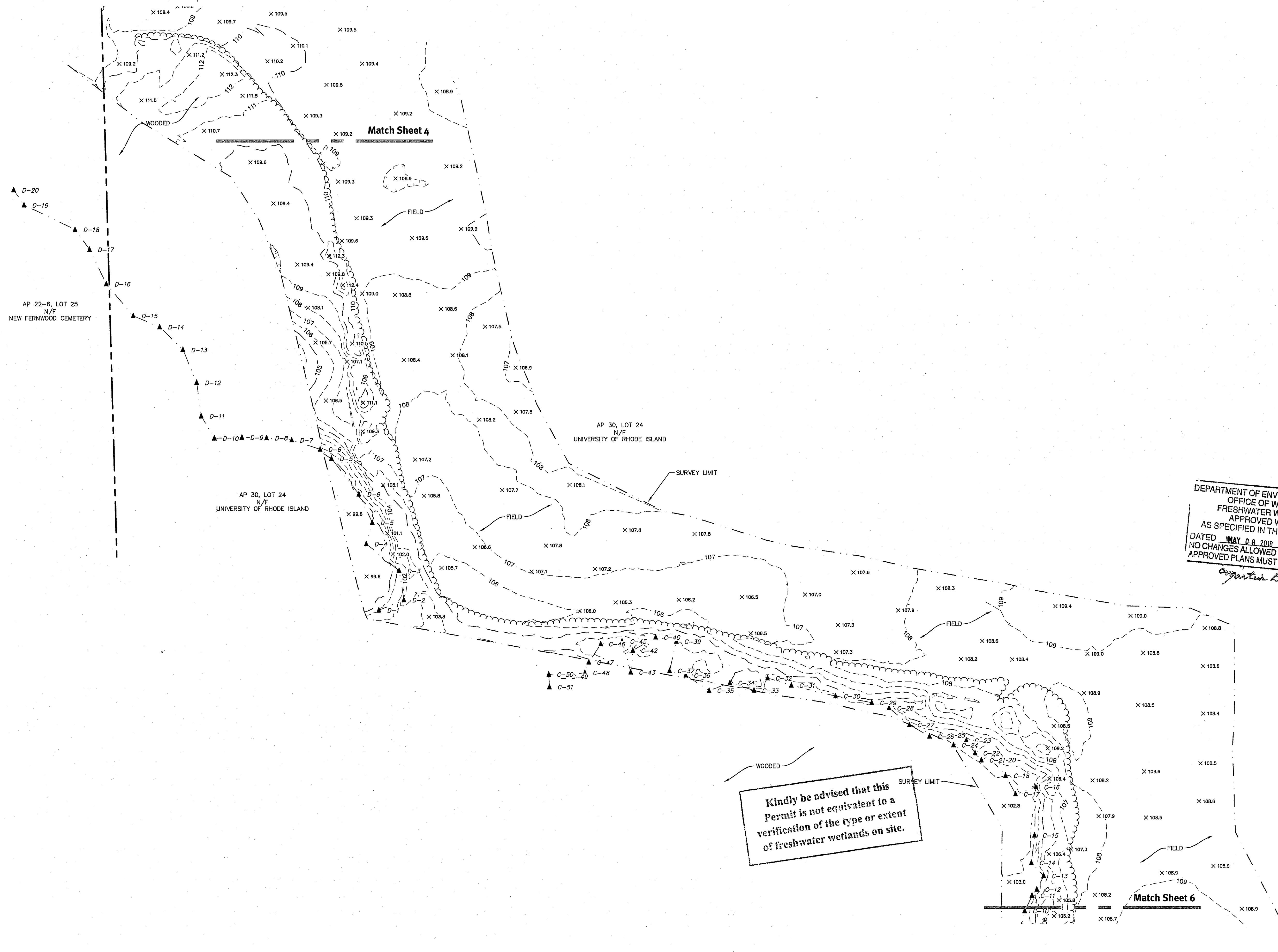
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DiPrete Engineering

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Stephen D. Wencel

Environmental Management
MAR 26 2018
Office of Water Resources

Scale: 1"=40'
0 20' 40' 80'

Existing Conditions Plan
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South Kingstown, Rhode Island

Client
Sasaki Associates, Inc.

94 Pleasant Street
Watertown, MA 02472

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SHEET 5 OF 6
Sheet No: 6 Of 64

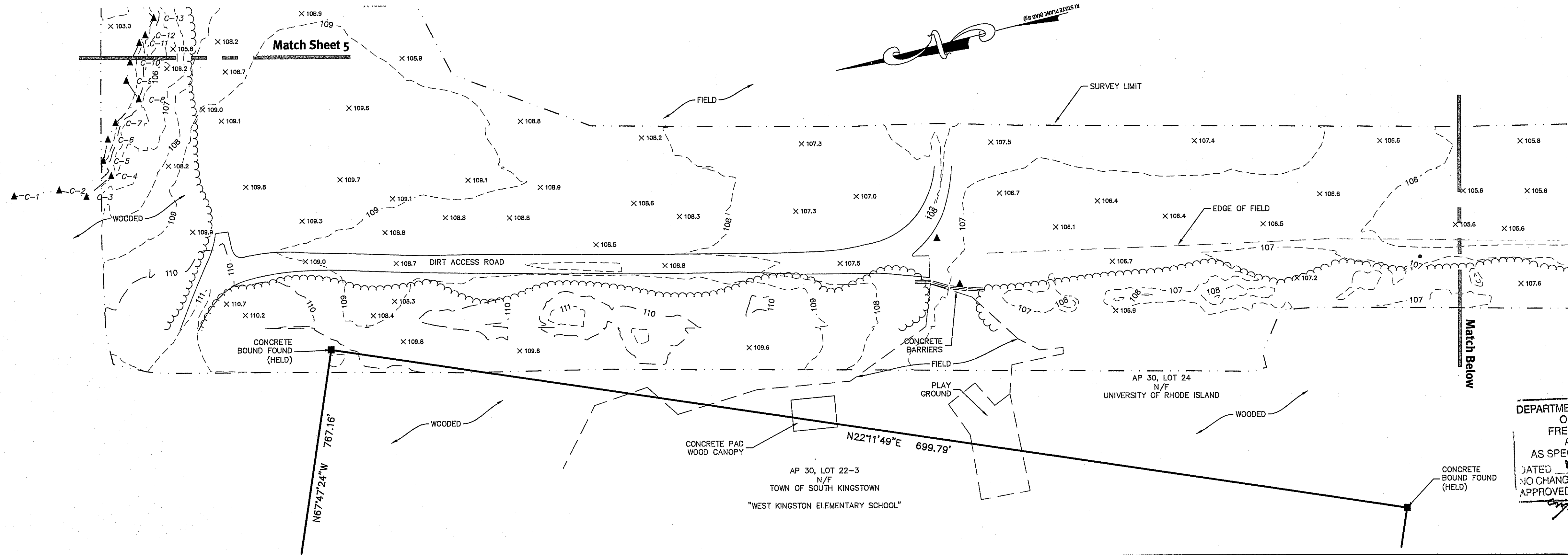
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tel 401-943-1000 fax 401-464-6006 www.diprete-eng.com

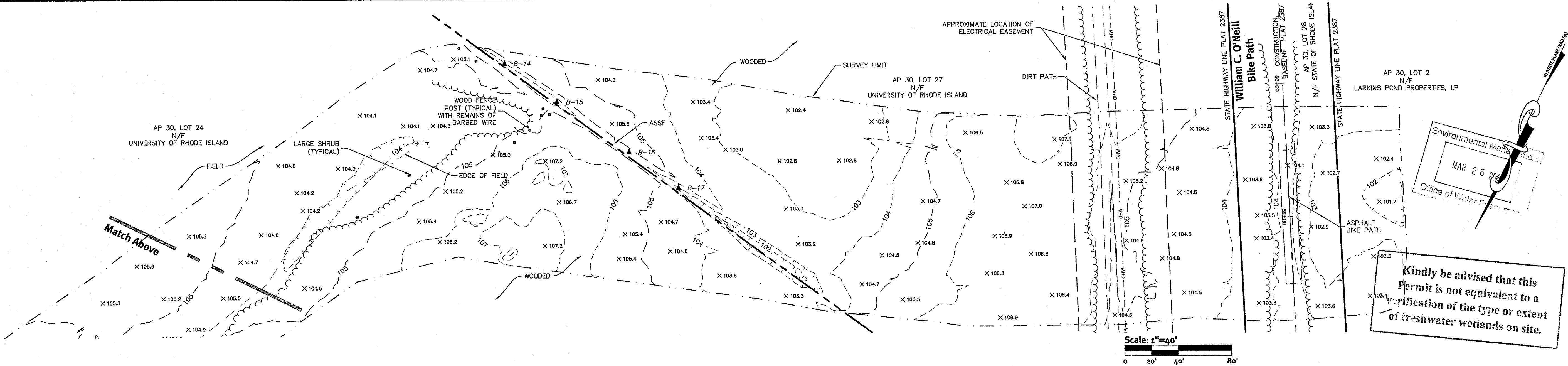
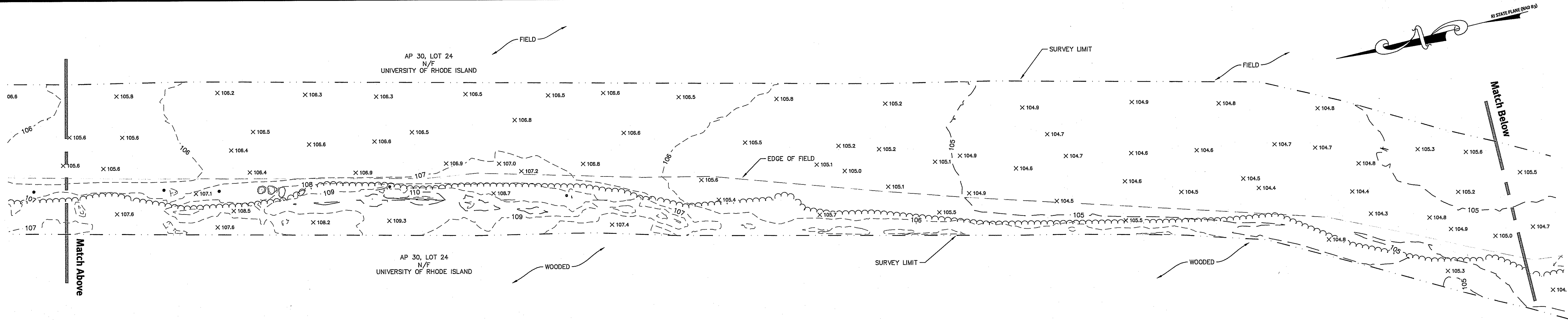
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No.	Date	Description	Drawn By: MTI	MTI
1	10/17/17	Topographic Survey		MTI
2	11/17/17	Topographic Survey		MTI

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Martin D. Jensen



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REFERENCE

- PROJECT LOCATION: UNIVERSITY OF RHODE ISLAND, KINGSTON RI 02881
- EXISTING UTILITY INFORMATION TAKEN FROM PLAN ENTITLED, "EXISTING CONDITIONS PLAN, URI BIKE PATH" PREPARED BY DIPRETE ENGINEERING DATED JANUARY 8, 2018.
- FLOOD STUDY INFORMATION TAKEN FROM FLOOD PLAN ENTITLED "FLOOD STUDY MAP," PREPARED BY GORDON R. ARCHIBALD, INC. DATED OCTOBER 2016.
- WETLANDS AND RESOURCE AREAS WERE DELINEATED BY PARE CORPORATION ON AUGUST 9, 2017. WETLAND FLAGS WERE LOCATED BY DIPRETE ENGINEERING.
- VERTICAL DATUM IS MEAN SEA LEVEL.

GENERAL NOTES

- PER AVAILABLE RIDEM MAPPING, A PORTION OF THE PROJECT SITE IS LOCATED WITHIN A NATURAL HERITAGE AREA.
- THE STATE OF RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION OR LATEST REVISION, AND THE RHODE ISLAND STANDARD DETAILS ARE MADE A PART HEREOF AS FULLY AND COMPLETELY AS IF ATTACHED HERETO. ALL WORK SHALL CONFORM TO THE RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2004 EDITION OR LATEST REVISION. THE 2004 EDITION OF THE STANDARD SPECIFICATIONS MAY BE OBTAINED AT THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION.
- THE CONTRACTOR SHALL MAKE ALL NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN ALL NECESSARY CONSTRUCTION PERMITS, PAY ALL FEES AND POST ALL BONDS ASSOCIATED WITH THE SAME, AND COORDINATE WITH THE ENGINEER AND OWNER'S REPRESENTATIVE AS REQUIRED.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY. THE CONTRACTOR SHALL PROVIDE TEMPORARY FENCING AND/OR BARRIERS AROUND ALL OPEN EXCAVATED AREAS IN ACCORDANCE WITH OSHA STANDARDS, URI STANDARDS, AND THE TOWN OF SOUTH KINGSTOWN REQUIREMENTS. THE CONTRACTOR SHALL PROVIDE PERIMETER CONSTRUCTION FENCING BETWEEN STATIONS 64+00 AND 99+00.
- IF ANY DEVIATION OR ALTERATION OF THE WORK PROPOSED ON THESE DRAWINGS IS REQUIRED, THE CONTRACTOR IS TO IMMEDIATELY CONTACT AND COORDINATE WITH THE ENGINEER AND OWNER'S REPRESENTATIVE.
- ANY AREA OUTSIDE OF THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO THE OWNER.
- ALL SITE WORK SHALL MEET OR EXCEED THE SITE WORK SPECIFICATIONS PREPARED FOR THIS PROJECT. 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 ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AND THE ENGINEER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK WHICH WOULD BE AFFECTED.
- ALL UTILITIES (LOCATION & ELEVATION) SHOWN SHALL BE CONSIDERED APPROXIMATE ONLY. BEFORE COMMENCING SITE WORK IN ANY AREA, CONTACT "DIG SAFE" AT 1-888-344-7233 AND DAVID LAMB, URI UTILITIES ENGINEER AT 401-874-7898 TO ACCURATELY LOCATE UNDERGROUND UTILITIES. ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES, AND THE COST TO REPAIR THE DAMAGES TO INITIAL CONDITIONS AS SHOWN ON THE PLANS, SHALL BE THE CONTRACTOR'S RESPONSIBILITY. NO EXCAVATION SHALL BE DONE UNTIL UTILITY COMPANIES ARE PROPERLY NOTIFIED.
- ANY DAMAGE TO EXISTING PAVEMENT, BRIDGES, CONDUIT, SIDEWALK, FENCES, ETC., CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL PLACE ALL EQUIPMENT AND MATERIAL AS FAR AWAY AS POSSIBLE FROM THE EDGE OF THE ROADWAY TRAVEL LANES SO AS NOT TO CAUSE A SAFETY HAZARD, IN ACCORDANCE WITH SECTION 106.06 OF THE R.I.D.O.T. STANDARD SPECIFICATION, LATEST EDITION.
- PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL EMPLOY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF RHODE ISLAND TO ESTABLISH CONTROL ON THE SITE AND PERFORM FIELD MEASUREMENTS AS REQUIRED TO LAYOUT THE PROPOSED SITE IMPROVEMENTS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE EXISTING CONDITIONS ARE NOT OBLITERATED BEFORE CONTROL POINTS ARE LOCATED AND CONSTRUCTION LAYOUT IS ESTABLISHED. THE CONSTRUCTION LAYOUT SHALL BE PROVIDED IN SUFFICIENT DETAIL, THEREBY ENABLING THE CONTRACTOR TO CONSTRUCT THE PROJECT IN CONFORMITY WITH THE PLANS AND SPECIFICATIONS. SURVEY WILL BE PROVIDED BY THE CONTRACTOR. THE OWNER OR OWNER'S REPRESENTATIVE SHALL NOT AUTHORIZE CONSTRUCTION ACTIVITIES TO BEGIN UNTIL THEY ARE SATISFIED THAT ALL GROUND CONTROL HAS BEEN ESTABLISHED, TIED DOWN, AND DULY RECORDED IN STANDARD FIELD BOOKS.
- ALL SIDEWALK AND DRIVEWAYS DESIGNATED FOR REPLACEMENT SHALL BE CUT AND MATCHED AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- THE LIMITS OF CLEARING AND SURFACE DISTURBANCE MUST BE STRICTLY ADHERED TO IN ALL AREAS. IN ADDITION TO THOSE AREAS SPECIFICALLY DESIGNATED ON THE PLANS, THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND PLACING, AT HIS OWN EXPENSE, PLANTABLE SOIL AND SEED IN AREAS WHICH ARE OUTSIDE OF THE PROJECT'S AREAS OF DISTURBANCE AND WHICH ARE IMPACTED BY CONSTRUCTION OPERATIONS INCLUDING THOSE AREAS WHERE VEHICLES, EQUIPMENT AND MATERIALS ARE STORED.
- UNDER NO CIRCUMSTANCE WILL THE CONTRACTOR BE ALLOWED TO STOCKPILE REMOVED PAVEMENT MATERIALS WITHIN THE PROJECT LIMITS.
- CLEANING AND SWEEPING OF PAVEMENT WILL INCLUDE REMOVAL OF ALL PAVEMENT DEBRIS PRIOR TO THE PLACEMENT OF EACH BITUMINOUS PAVEMENT LIFT. ALL CLEANING AND SWEEPING SHALL BE DONE TO THE SATISFACTION OF THE OWNER OR OWNER'S REPRESENTATIVE.
- PRIOR TO INSTALLATION, ALL SIGNS, MOUNTINGS AND LOCATIONS SHALL BE APPROVED OR MODIFIED BY OWNER OR OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ROADWAYS FREE OF DEBRIS RESULTING FROM CONSTRUCTION OPERATIONS. ALL DEBRIS SHALL BE REMOVED TO THE SATISFACTION OF THE OWNER OR OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST TO THE OWNER.
- NO FUEL STORAGE, VEHICLE REFUELING, OR EQUIPMENT STORAGE SHALL TAKE PLACE IN DESIGNATED WETLANDS, WETLANDS BUFFER ZONES, NOR WITHIN 100' OF ANY WATER BODY. THIS REQUIREMENT SHALL NOT SUPERSEDE ANY FEDERAL, STATE OR LOCAL LAW, ORDINANCE, RULE OR REGULATION THAT APPLIES TO THE SAME, UNLESS THIS REQUIREMENT IS MORE STRINGENT THAN SAID LAW, ORDINANCE, RULE OR REGULATION.
- ALL EMBANKMENTS SHALL BE PLACED IN HORIZONTAL LAYERS NOT EXCEEDING 12" (AFTER COMPACTION) AND SHALL BE COMPACTED AS SPECIFIED BEFORE THE NEXT LAYER IS PLACED. ALSO, EMBANKMENT CONSTRUCTION SHALL CONFORM TO SECTION 202.03.2 OF THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
- ROUTE 138 IS A HURRICANE EVACUATION AND DIVERSIONARY ROUTE. THE CONTRACTOR IS ADVISED THAT UPON 12 (TWELVE) HOURS NOTICE THE ROADWAY SHALL BE OPEN TO EVACUEES AND EMERGENCY PERSONNEL.
- THE CONTRACTOR SHALL READ, BECOME FAMILIAR WITH, AND ADHERE TO ALL OF THE PROVISIONS, CONDITIONS, AND STIPULATIONS STATED IN THE ENVIRONMENTAL APPROVALS ISSUED FOR THE PROJECT FROM THE DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (RIDEM). COPIES OF EACH OF THESE PERMITS ARE INCLUDED IN THE CONTRACT DOCUMENTS. ALL COSTS ASSOCIATED WITH THESE CONDITIONS SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION AND INCLUDED WITH THE COST OF THE PROJECT.
- THE CONTRACTOR SHALL COMPACT ALL MATERIALS USED FOR SUBBASE BACKFILL IN MAXIMUM SIX-INCH LAYERS.
- ALL WORK WITHIN THE STATE RIGHT-OF-WAY SHALL CONFORM TO THE RHODE ISLAND STANDARD SPECIFICATIONS, DETAILS, AND ALL ADDENDA.
- FOLLOWING CONSTRUCTION OF QPA'S OR VFS, CONSTRUCTION VEHICLES OR EQUIPMENT SHALL NOT BE PLACED OR DRIVEN OVER QPA'S OR VFS. COMPACTION OF THESE AREAS IS PROHIBITED. ANY QPA'S OR VFS DISTURBED BY VEHICLES OR EQUIPMENT SHALL BE RECONSTRUCTED AT NO ADDITIONAL EXPENSE TO THE OWNER. REFER TO QPA AND VFS DETAILS FOR SUBGRADE PREPARATION.

LAYOUT NOTES

- ALL LINES ARE PERPENDICULAR OR PARALLEL TO THE LINES FROM WHICH THEY ARE MEASURED, UNLESS OTHERWISE INDICATED.
- ACCESSIBLE RAMPS SHALL BE CONSTRUCTED PER THE AMERICANS WITH DISABILITIES ACT (ADA) ACCESSIBILITY GUIDELINES, LATEST REVISION.
- CONTRACTOR TO PERFORM BENCHMARK FIELD LEVEL VERIFICATION AND COORDINATE LAYOUT CHECK PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CONTACT PARE CORPORATION IF ANY DISCREPANCIES ARE FOUND.
- DIMENSIONS OF PARKING SPACES AND DRIVEWAYS ARE FROM FACE OF CURB TO FACE OF CURB. DIMENSIONS FROM BUILDING ARE FROM FACE OF BUILDING TO FACE OF CURB.

DEMOLITION NOTES

- ALL NOTED UTILITIES TO BE REMOVED AND DISPOSED, RELOCATED, OR CAPPED REPRESENT ALL KNOWN SITE CONDITIONS TO BE DEMOLISHED. CONTRACTOR TO COORDINATE ANY UNFORESEEN CONDITIONS WITH THE PROJECT ENGINEER, OWNER, AND/OR RESPECTIVE UTILITY COMPANIES PRIOR TO PROCEEDING WITH THE WORK.
- 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 THROUGHOUT THE DURATION OF CONSTRUCTION WITHOUT WRITTEN APPROVAL FROM THE OWNER.
- ALL EXISTING CATCH BASINS TO REMAIN SHALL BE CLEANED PRIOR TO COMMENCING WORK.

EROSION AND SEDIMENTATION CONTROL NOTES

- THE CONTRACTOR AND RELEVANT SUBCONTRACTORS SHALL READ AND UNDERSTAND THE RIDEM FRESHWATER WETLANDS PERMIT, THE RIDPES GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY (GENERAL PERMIT) AND THE SITE SPECIFIC SOIL EROSION AND SEDIMENT CONTROL PLAN (SESC) PREPARED FOR THE PROJECT. ALL EROSION CONTROLS SHALL BE IN ACCORDANCE WITH THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST REVISION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING OR INSTALLING ALL TEMPORARY SEDIMENT AND EROSION CONTROLS AS SHOWN ON THESE PLANS AND SHALL MAINTAIN ALL EROSION CONTROL MEASURES AS NECESSARY DURING THE ENTIRE CONSTRUCTION PERIOD.
- ANTI-TRACKING PADS (R.I. STD. DETAIL 9.9.0) SHALL BE PROVIDED AT ALL POINTS OF EGRESS OR INGRESS, PRIOR TO ANY ROADWAY ACCEPTING CONSTRUCTION TRAFFIC, AND SHALL BE MAINTAINED TO LIMIT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADS.
- EROSION CONTROL BARRIERS SHALL BE INSTALLED AS SHOWN ON THE PLANS PRIOR TO COMMENCEMENT OF CONSTRUCTION OPERATIONS.
- SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED ON A WEEKLY BASIS AND AFTER EACH STORM EVENT OF 0.25 INCH OR GREATER DURING CONSTRUCTION TO INSURE THAT CHANNELS, DITCHES AND PIPES ARE CLEAR OF DEBRIS AND THAT THE EROSION CONTROL BARRIERS ARE INTACT. THE CONTRACTOR SHALL CORRECT IDENTIFIED DEFICIENCIES IMMEDIATELY.
- DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS AS NECESSARY, OR AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL CLEAN AND MAINTAIN EROSION CONTROL BARRIER WHEN SEDIMENT ACCUMULATES TO ONE HALF THE HEIGHT OF THE BARRIER. MATERIAL COLLECTED FROM THE SEDIMENTATION BARRIERS SHALL BE REMOVED AS NECESSARY AND DISPOSED IN AN UPLAND AREA.
- THE CONTRACTOR SHALL SCHEDULE THE CONSTRUCTION SEQUENCE 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.
- INSTALLATION OF THE EROSION CONTROL BARRIERS AS ILLUSTRATED IS INTENDED TO REPRESENT THE MINIMUM SEDIMENTATION CONTROL FACILITIES NECESSARY TO MEET ANTICIPATED SITE CONDITIONS. ADDITIONAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED AS CONDITIONS WARRANT OR AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST TO THE OWNER.
- REQUIRED SEDIMENTATION CONTROL FACILITIES MUST BE PROPERLY ESTABLISHED, CLEARLY VISIBLE AND IN OPERATION PRIOR TO INITIATING ANY LAND CLEARING ACTIVITY AND/OR OTHER CONSTRUCTION RELATED WORK. SUCH FACILITIES 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 THROUGHOUT THE CONSTRUCTION PERIOD.
- THE CONTRACTOR SHALL MAINTAIN A SUFFICIENT RESERVE OF VARIOUS EROSION CONTROL MATERIALS ONSITE AT ALL TIMES FOR EMERGENCY PURPOSES OR ROUTINE MAINTENANCE.
- THE CONTRACTOR SHALL REPLACE DAMAGED EROSION CONTROL AT THE OWNER, OWNER'S REPRESENTATIVE, OR ENGINEER'S REQUEST AT NO ADDITIONAL EXPENSE TO THE OWNER.
- DEWATERING WASTE WATERS PUMPED FROM EXCAVATIONS WILL BE CONVEYED BY HOSE TO AN UPLAND AREA AND DISCHARGED INTO A DEWATERING BAG PER RI STANDARD 9.7.0. THE CONTRACTOR IS RESPONSIBLE FOR ALL ENGINEERING, EQUIPMENT, MATERIAL, AND LABOR REQUIRED FOR SITE WATER REMOVAL DURING CONSTRUCTION.
- THE CONTRACTOR SHALL NOT REMOVE ANY HAYBALES, COMPOST FILTER SOCKS, OR OTHER EROSION CONTROLS UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED.
- CONSTRUCTION SITE WASTE MATERIALS WILL BE PROPERLY CONTAINED ONSITE AND DISPOSED OFF SITE AT A LOCATION IN ACCORDANCE WITH THE LOCAL AND STATE REGULATIONS.
- RIP-RAP OR OTHER ENERGY DISSIPATERS WILL BE USED WHERE NECESSARY TO PREVENT SCOUR.
- THE CONTRACTOR SHALL NOT LEAVE DISTURBED AREAS UNSTABILIZED FOR PERIODS MORE THAN 14 DAYS. PROVIDE TEMPORARY SEED OR MULCH ON DISTURBED AREAS THAT WILL REMAIN EXPOSED FOR GREATER THAN 14 DAYS.
- ALL DRAINAGE STRUCTURES SHALL BE CLEARED OF ACCUMULATED SEDIMENT PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.
- NEWLY VEGETATED AREAS SHALL BE MAINTAINED REGULARLY TO ENSURE STABLE VEGETATED SURFACES.
- EROSION AND SEDIMENTATION CONTROLS WILL BE UTILIZED AS SHOWN ON THE PLANS. POTENTIAL EROSION AND SEDIMENTATION PROBLEMS ASSOCIATED WITH THE CONSTRUCTION OF THE PROJECT WILL BE AVOIDED THROUGH THE PROJECT SCHEDULING AND THE USE OF APPROPRIATE STANDARD CONTROLS (RHODE ISLAND SOIL EROSION AND SEDIMENTATION CONTROL HANDBOOK) AS ILLUSTRATED ON THE PROJECT PLANS.
- WHERE EROSION CONTROLS ARE NEEDED ON IMPERVIOUS SURFACES, THE CONTRACTOR SHALL PROVIDE SAND BAG EROSION CONTROL BARRIER.
- TEMPORARY DIVERSION MAY CONSIST OF A DITCH OR SWALE, OR MAY BE ACHIEVED USING WOOD CHIPS, COIR LOGS, OR SIMILAR MATERIALS.
- THE CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN SILT SACKS IN ALL EXISTING AND NEWLY INSTALLED CATCH BASINS UNTIL THE UPSTREAM AREA IS STABILIZED.

BIORETENTION AREA INSPECTION, MAINTENANCE, AND REPAIR NOTES

FOLLOWING CONSTRUCTION, THE COMPLETION OF THE INSPECTION AND MAINTENANCE REQUIREMENTS BELOW SHALL BE THE RESPONSIBILITY OF THE OWNER.

- THE BIORETENTION AREA SHALL BE INSPECTED AFTER EVERY STORM OF 2.6" OR GREATER FOR TRASH, DEBRIS, SEDIMENT, EROSION, STANDING WATER, AND OVERALL PERFORMANCE. DEFECTS SHALL BE REPAIRED BY THE OWNER.
- THE BIORETENTION AREA SHALL BE INSPECTED AFTER THE FIRST TWO STORM EVENTS OF 1" OR MORE IN THE FIRST 6 MONTHS AFTER CONSTRUCTION.
- THE OWNER SHALL MOW GRASS WITHIN THE BIORETENTION AREA TWICE ANNUALLY, ONCE IN LATE SPRING AND ONCE IN EARLY FALL. THE VEGETATION SHALL NOT EXCEED 18" IN HEIGHT.
- THE OWNER SHALL RE-MULCH BIORETENTION AREAS IN THE SPRING EACH YEAR.
- IN SPRING, THE OWNER SHALL TRIM VEGETATION AND REMOVE DEAD VEGETATION FROM THE BIORETENTION AREA.
- REMOVE ACCUMULATED SEDIMENT FROM THE BIORETENTION CELLS TWICE ANNUALLY, ONCE IN THE LATE SPRING AND ONCE IN THE EARLY FALL, OR AT ANY TIME THAT SEDIMENT EXCEEDS 1" IN THE BIORETENTION AREA CELLS.
- IF PONDING EXCEEDS 48 HOURS, REMOVE ALL DISCOLORED MATERIAL AND RE-MULCH FILTER SURFACE.
- TRASH AND DEBRIS SHALL BE REMOVED FROM THE BIORETENTION AREA AS NECESSARY.

VEGETATED FILTER STRIP AREA INSPECTION, MAINTENANCE, AND REPAIR NOTES

FOLLOWING CONSTRUCTION, THE COMPLETION OF THE INSPECTION AND MAINTENANCE REQUIREMENTS BELOW SHALL BE THE RESPONSIBILITY OF THE OWNER.

- THE VEGETATED FILTER STRIP MUST BE INSPECTED QUARTERLY DURING THE FIRST YEAR OF OPERATION AND SEMIANNUALLY THEREAFTER FOR SEDIMENT, PONDING, EROSION, AND VEGETATION.
- REMOVE ACCUMULATED SEDIMENT FROM THE VEGETATED FILTER STRIP ANNUALLY OR AT ANY TIME THAT SEDIMENT EXCEEDS 1".
- OWNER SHALL REPAIR ANY SLOPES THAT HAVE BEEN DAMAGED DUE TO EROSION OR OTHER MEANS. OWNER SHALL REPLACE ANY VEGETATION THAT HAS DIED OR BEEN DAMAGED.
- OWNER SHALL MOW GRASS WITHIN THE VEGETATED FILTER STRIP A MINIMUM OF TWICE ANNUALLY AND MAINTAIN A MINIMUM GRASS HEIGHT OF 4".
- TRASH AND DEBRIS SHALL BE REMOVED FROM THE VEGETATED FILTER STRIP AS NECESSARY.
- THE FILTER STRIP SHALL NOT BE USED FOR SNOW STORAGE.

QUALIFYING PERVIOUS AREA INSPECTION, MAINTENANCE, AND REPAIR NOTES

FOLLOWING CONSTRUCTION, THE COMPLETION OF THE INSPECTION AND MAINTENANCE REQUIREMENTS BELOW SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER.

- THE QUALIFYING PERVIOUS AREA (QPA) MUST BE INSPECTED TWICE YEARLY, AT A MINIMUM, FOR SEDIMENT, PONDING, EROSION, AND VEGETATION.
- REMOVE ACCUMULATED SEDIMENT FROM THE QPA IF SEDIMENT EXCEEDS 1".
- OWNER SHALL REPAIR ANY SLOPES THAT HAVE BEEN DAMAGED DUE TO EROSION OR OTHER MEANS. OWNER SHALL REPLACE ANY VEGETATION THAT HAS DIED OR BEEN DAMAGED.
- OWNER SHALL MOW GRASS WITHIN THE QPA A MINIMUM OF TWICE ANNUALLY TO MAINTAIN A MINIMUM GRASS HEIGHT OF 6".
- TRASH AND DEBRIS SHALL BE REMOVED FROM THE QPA AS NECESSARY.
- THE QPA SHALL NOT BE USED FOR SNOW STORAGE.

GRADING AND UTILITY NOTES

- 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 ENGINEER'S APPROVAL.
- ALL WORK PERFORMED AND ALL MATERIALS FURNISHED SHALL CONFORM WITH THE LINES AND GRADES ON THE PLANS AND THE SITE WORK SPECIFICATIONS.
- AT ALL LOCATIONS WHERE EXISTING CURBING OR PAVEMENT ABUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENT SHALL BE SAWCUT TO A CLEAN, SMOOTH EDGE. BLEND NEW PAVEMENT AND CURBS SMOOTHLY INTO EXISTING BY MATCHING LINES, GRADES, AND JOINTS.
- ALL UTILITY COVERS, GRATES, ETC. SHALL BE ADJUSTED TO BE FLUSH WITH THE SURROUNDING SURFACE OR PAVEMENT FINISH GRADE. RIM ELEVATIONS OF STRUCTURES AND MANHOLES ARE APPROXIMATE. FINAL ELEVATIONS ARE TO BE SET FLUSH AND CONSISTENT WITH THE GRADING PLANS.
- THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION OF PRIVATE UTILITIES BY THE UTILITY COMPANIES, AS REQUIRED.
- WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION.
- 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 BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE 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.
- ALL WATER LINE BENDS AND TEES SHALL BE REINFORCED WITH THRUST BLOCKS. ALL WATER DISTRIBUTION PIPING AND FITTINGS SHALL BE INSPECTED BEFORE, DURING, AND AFTER CONSTRUCTION PRIOR TO TAPPING THE SERVICE MAIN.
- EXCAVATION REQUIRED WITHIN THE PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO COST TO THE OWNER.
- PITCH EVENLY BETWEEN SPOT GRADES. ALL PAVED AREAS MUST PITCH TO DRAIN AT A MIN. OF 1/8" PER FOOT UNLESS OTHERWISE SPECIFIED.
- THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL ROCK AND BOULDERS UNCOVERED DURING UTILITY INSTALLATION. REFER TO EARTHWORK SPECIFICATION.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL EQUIPMENT, MATERIALS, AND LABOR REQUIRED TO CLEAN OUT EXISTING CATCH BASINS AND PIPING PRIOR TO COMMENCING WORK.

STORMWATER MANAGEMENT SYSTEM INSPECTION AND MAINTENANCE NOTES

DURING CONSTRUCTION

- THE CONTRACTOR SHALL REMOVE SEDIMENT AND DEBRIS FROM ALL CATCH BASINS, MANHOLES, AND THE DRAINAGE SYSTEM ON A ROUTINE BASIS, IMMEDIATELY FOLLOWING SITE STABILIZATION, AND PRIOR TO PROJECT COMPLETION AND ACCEPTANCE.
- THE CLOSED DRAINAGE SYSTEM AND ASSOCIATED STRUCTURES SHALL BE CLEANED AND FLUSHED BY THE CONTRACTOR AT THE COMPLETION OF CONSTRUCTION, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTION AND MAINTENANCE OF THE DRAINAGE SYSTEM UNTIL ACCEPTANCE OF THE SYSTEM BY THE ENGINEER AND THE OWNER. FOLLOWING ACCEPTANCE OF THE PROPOSED DRAINAGE SYSTEM FOR THIS SITE, THE OWNER OF THE SITE SHALL BE RESPONSIBLE FOR THE LONG-TERM INSPECTION AND MAINTENANCE OF THE DRAINAGE SYSTEM.
- ANY ACCUMULATION OF PONDING WATER IN AREAS WITHIN THE LIMITS OF DISTURBANCE, OTHER THAN DESIGNATED AREAS, SHALL BE REMOVED ACCORDINGLY AND PREVENTED IN THE FUTURE.

FOLLOWING CONSTRUCTION, THE COMPLETION OF THE INSPECTION AND MAINTENANCE REQUIREMNTS BELOW SHALL BE THE RESPONSIBILITY OF THE OWNER.

- TRASH, LITTER, SEDIMENT AND OTHER DEBRIS SHALL BE REMOVED FROM ANY STORMWATER FACILITY (INCLUDING CATCH BASINS, MANHOLES, INLET AND OUTLET STRUCTURES, AND THE STORMWATER BMP'S) AT LEAST TWICE A YEAR, PREFERABLY SPRING AND FALL.
- THE PARKING LOT AND DRIVES SHALL BE SWEEP AS EARLY AS POSSIBLE EVERY SPRING AND ONCE IN THE FALL TO REMOVE SEDIMENTS.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 08 2018 FILE # 18-0063
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Jonathan D. Wencek

SASAKI

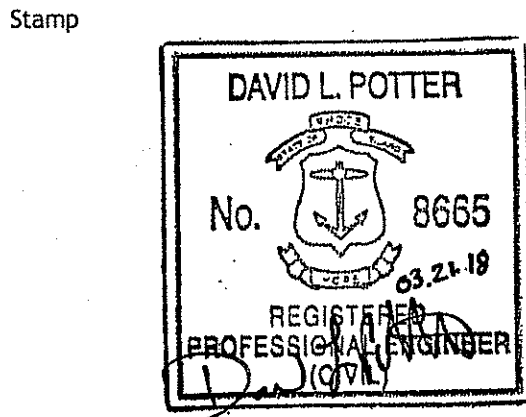
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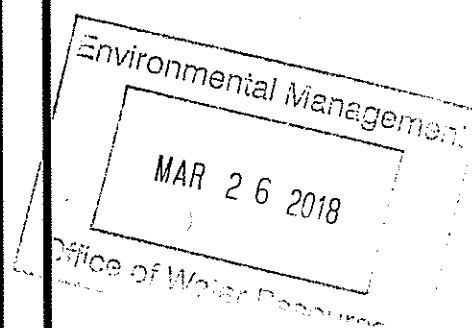
OWNER/APPLICANT:

UNIVERSITY OF RHODE ISLAND
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AP 23-1, LOT 1 & AP 30, LOTS 24 & 27

DWG ISSUE & REVISION HISTORY



Key Plan



Project Title:

URI/SOUTH COUNTY
BIKE PATH CONNECTOR

Drawing Title:

NOTES

Project No: 15180.03 Scale: AS NOTED
Drawn By:
Checked By:
Approved By:
Date: 03/21/2018

Drawing No:

C1.01

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TRAFFIC SIGNAL NOTES:

1. BACK PLATES SHALL BE INSTALLED ON ALL TRAFFIC SIGNAL HEADS.
2. THE CONTRACTOR SHALL SUPPLY AND INSTALL ON THE UPPER LEFT HAND CORNER OF THE BACK OF THE CONTROLLER CABINET DOOR A LAMINATED INTERSECTION GRAPHIC AND TABLE DEPICTING THE TRAFFIC DETECTOR RELAY CHANNEL ASSIGNMENTS. THE DIAGRAM SHALL BE A GRAPHIC OF THE INDIVIDUAL INTERSECTION ORIENTED SIMILAR TO THE PLANS SHOWING THE LOCATIONS OF EACH OF THE LOOP DETECTORS. THE DIAGRAM SHALL, AT A MINIMUM, INCLUDE DETECTOR NUMBERS, STREET NAME LABELS, NORTH ARROW, AND CONTROLLER CABINET LOCATION. THE ASSIGNMENT INFORMATION SHALL BE INCLUDED IN A TABLE WHICH SHALL INCLUDE, AT A MINIMUM, THE APPROACH NAME, DETECTOR NUMBER, TERMINAL NUMBER, DETECTOR RACK SLOT NUMBER, RELAY NUMBER, RELAY CHANNEL NUMBER, AND PHASE ASSOCIATED WITH EACH DETECTOR.
3. TRAFFIC CONTROLLER CABINETS SHALL BE NEMA TS2 TYPE 1 CABINET SIZE 6 ("P" TYPE) WITH NOMINAL DIMENSIONS OF 52"Hx44"Wx24"D.
4. A BARE GROUND WIRE SHALL BE PLACED IN ALL PVC CONDUITS AND SHALL BE BONDED TO GROUND RODS IN ACCORDANCE WITH SECTION T.03 OF THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
5. THE FINAL POSITION OF SIGNAL HEADS, PEDESTRIAN PUSHBUTTONS, DETECTORS, AND STOP LINE AND CROSSWALK PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE OWNER'S REPRESENTATIVE, OWNER, OR ENGINEER IN THE FIELD ACCORDING TO ACTUAL INTERSECTION CHARACTERISTICS.
6. A 2' MINIMUM BUFFER SHALL BE PROVIDED BETWEEN THE CURB AND ALL LATERAL OBSTRUCTIONS (INCLUDING ALL SIGNAL POLES AND TRAFFIC/PEDESTRIAN SIGNAL HEADS) TO PROVIDE ADEQUATE CLEARANCE FOR TURNING VEHICLES.
7. ALL FOUNDATIONS MUST HAVE CONES OR BARRELS BOLTED TO FOUNDATION BASES UNTIL ACTUAL POLE IS INSTALLED.
8. ALL PEDESTRIAN PUSHBUTTONS SHALL BE COMPLIANT WITH "THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES" (ADAAG) AND SHALL INCLUDE A PRESSURE-ACTIVATED (NON-MOVING) BUTTON. SIGNS APPLICABLE TO PUSHBUTTON ACTUATION SHALL BE INSTALLED SUCH THAT THE CROSSING ASSIGNED TO EACH BUTTON IS CLEARLY INDICATED. THE FINAL PLACEMENT OF ALL PEDESTRIAN PUSHBUTTONS SHALL BE IN ACCORDANCE WITH ADAAG AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.

MAINTENANCE AND PROTECTION OF TRAFFIC NOTES:

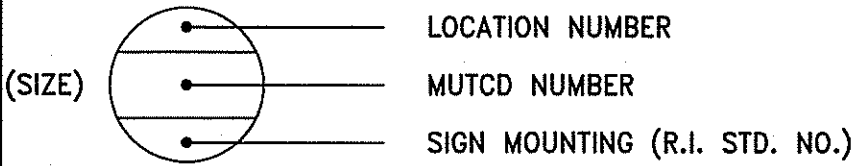
1. ALL MAINTENANCE AND PROTECTION OF TRAFFIC CONTROL SETUPS, SIGNS, CHANNELIZING DEVICES, ETC., SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
2. ALL SIGN MOUNTINGS FOR TEMPORARY AND CONSTRUCTION SIGNS SHALL BE IN ACCORDANCE WITH THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
3. THE CONTRACTOR SHALL COVER ALL EXISTING AND/OR TEMPORARY SIGNS THAT ARE NOT RELEVANT TO THE TRAFFIC CONTROL REQUIRED DURING ANY PARTICULAR STAGE OF THE CONTRACT.
4. ADVANCE FLAGPERSON SIGNS (W20-7A) SHALL BE USED IN ADVANCE OF ANY POINT AT WHICH A FLAGPERSON OR A POLICE OFFICER HAS BEEN STATIONED TO CONTROL TRAFFIC. WHEN NEEDED, AN APPROPRIATE DISTANCE MESSAGE MAY BE DISPLAYED ON A SUPPLEMENTAL PLATE (24"x18") BELOW THE FLAGPERSON SYMBOL SIGN. THE SIGN SHALL BE PROMPTLY REMOVED OR COVERED WHENEVER THE FLAGPERSON IS NOT AT THE STATION.
5. POLYETHYLENE DRUMS SHALL BE UTILIZED AS A CHANNELIZING DEVICE WHEN A TRAFFIC CONTROL SET-UP IS TO REMAIN BEYOND WORKING HOURS WHEN NO WORKERS ARE PRESENT. CONES SHALL BE UTILIZED WHEN A TRAFFIC CONTROL SET-UP IS TO REMAIN ONLY DURING WORKING HOURS AND IS SUBSEQUENTLY BROKEN DOWN AT THE END OF THE WORKDAY.
6. TEMPORARY CONSTRUCTION SIGNS AND OTHER TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE INSTALLED PRIOR TO THE START OF WORK IN ANY AREA OPEN TO TRAFFIC, AND SHALL BE REMOVED AS SOON AS PRACTICAL WHEN THEY ARE NO LONGER APPROPRIATE.

STRUCTURAL NOTES FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS:

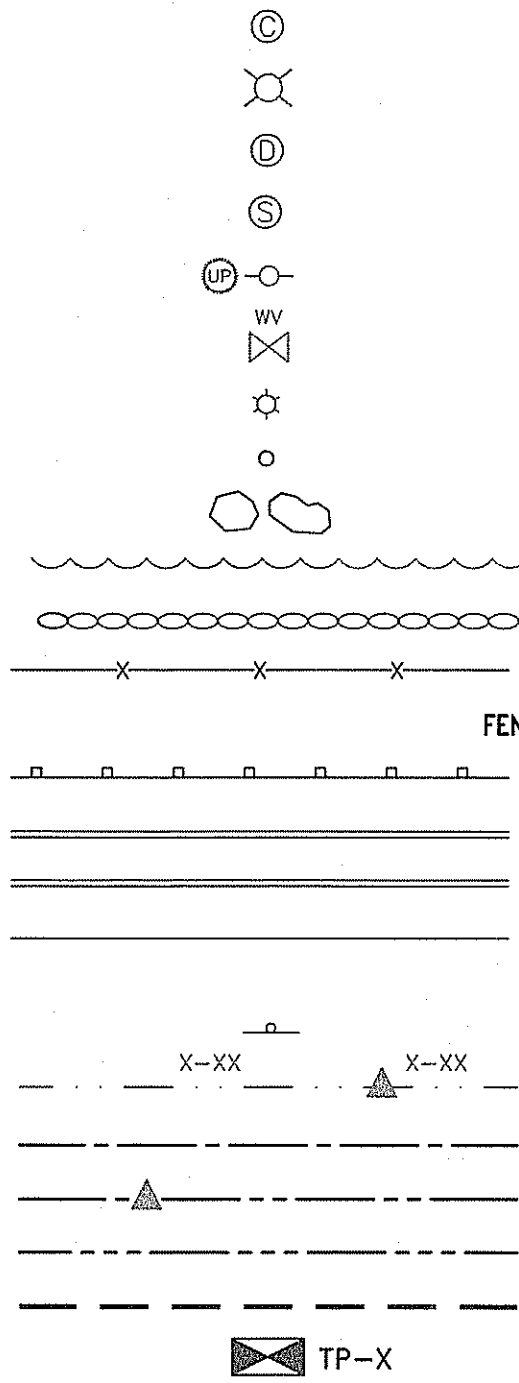
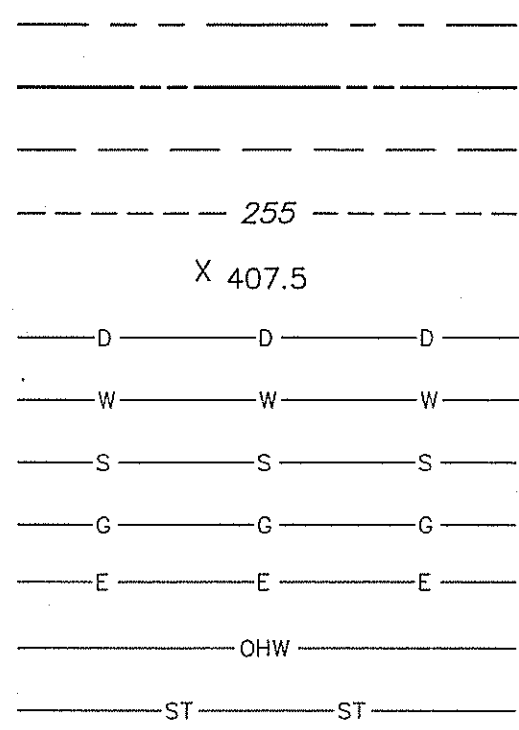
GENERAL

1. ALL SUPPORT DESIGNS AND ASSOCIATED SHOP DRAWING REVIEWS SHALL BE IN CONFORMANCE WITH THE LATEST EDITION, OF THE AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS (THE "SPECIFICATIONS"), INCLUDING THE LATEST INTERIM SPECIFICATIONS, EXCEPT AS MODIFIED HEREIN.
2. THE USE OF GROUT UNDER BASE PLATES SHALL GENERALLY NOT BE PERMITTED. IF SPECIFIC CONDITIONS WARRANT ITS USE, THE GROUT SHALL NOT BE CONSIDERED LOAD CARRYING; LOADS SHALL BE DIRECTLY SUPPORTED BY THE ANCHOR BOLTS. ADEQUATE DRAINAGE SHALL BE PROVIDED.
3. THE DAMPENING EFFECTS OF VIBRATION MITIGATION DEVICES SHALL NOT BE CONSIDERED IN THE DESIGN OF STRUCTURAL SUPPORTS FOR SIGNS AND TRAFFIC SIGNALS. IF THE CONTRACTOR CHOOSES TO USE THESE DEVICES FOR WARRANTY PURPOSES, THE TYPE OF DEVICES PROPOSED SHALL BE APPROVED BY THE DEPARTMENT PRIOR TO FABRICATION OF SUPPORTS.

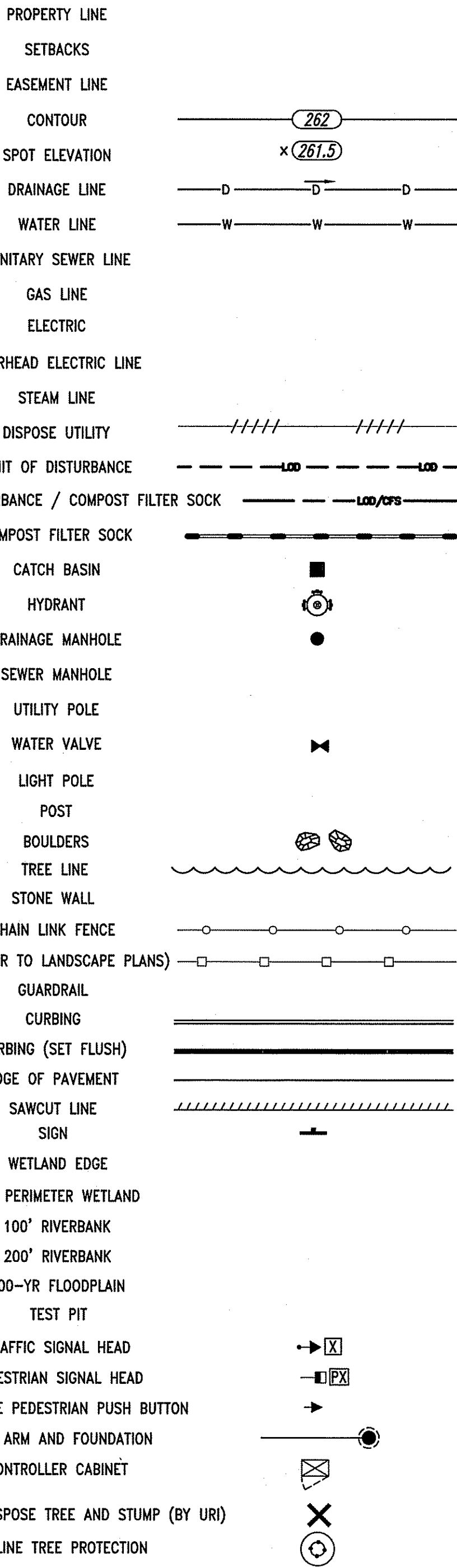
TYPICAL SIGN DESIGNATION SYMBOL



EXISTING



LEGEND



ABBREVIATIONS

AD = AREA DRAIN	LOD = LIMIT OF DISTURBANCE
ASSF = AREA SUBJECT TO STORM FLOWAGE	LP = LOW POINT
BIT. = BITUMINOUS	MAX. = MAXIMUM
BM = BENCHMARK	MIN. = MINIMUM
BMP = BEST MANAGEMENT PRACTICE	MON. = MONITORING
BS = BOTTOM OF STAIR	MUTCD = MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION
BW = BOTTOM OF WALL	OCS = OUTLET CONTROL STRUCTURE
CB = 4' DIA. CATCH BASIN UNLESS OTHERWISE NOTED	OWS = OIL WATER SEPARATOR
CC = VERTICAL CONCRETE CURB	PE = POLYETHYLENE
CI = CAST IRON	PERF. = PERFORATED
CL = CLASS	PVC = POLYVINYL CHLORIDE
CLDI = CEMENT-LINED DUCTILE IRON	RCF = REINFORCED CONCRETE PIPE
CO = CLEANOUT	RIDEM = RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
CONC. = CONCRETE	R.I.D.O.T. = RHODE ISLAND DEPARTMENT OF TRANSPORTATION
DEMO = DEMOLITION	R.I. STD. = RHODE ISLAND STANDARD
DIA = DIAMETER	R=X' = RADIUS
DIV = DIVERSION	SDR = STANDARD DIMENSIONAL RATIO
DMH = DRAIN MANHOLE	SESC = SOIL EROSION AND SEDIMENT CONTROL
DW = DRY WELL	SMH = SEWER MANHOLE
ELEV.EL = ELEVATION	TBF = TREE BOX FILTER
EOP = EDGE OF PAVEMENT	TP = TEST PIT
EXIST. = EXISTING	TS = TOP OF STAIR
EXCB = EXISTING CATCH BASIN	TW = TOP OF WALL
EXDMH = EXISTING DRAIN MANHOLE	(TYP.) = TYPICAL
FFE = FINISH FLOOR ELEVATION	UP = UTILITY POLE
FND. = FOUND	VGC = VERTICAL GRANITE CURB
FT = FOOT	w/ = WITH
GRAN. = GRANITE	YD = YARD DRAIN
GTD = GRADE TO DRAIN	
HDPE = HIGH DENSITY POLYETHYLENE PIPE	
HYD = HYDRANT	
ID. = INNER DIAMETER	
INV. = INVERT	

LEGEND:

2.1.0	CONCRETE HEADWALLS FOR PIPE CULVERTS	R&D	REMOVE AND DISPOSE
2.3.0	PRECAST CONCRETE FLARED END SECTION	R&R	REMOVE AND RESET
7.1.0	PRECAST CONCRETE CURB, RI STD 7.1.0	R&S	REMOVE AND SALVAGE
7.1.2	6'-0" PRECAST CONCRETE TRANSITION CURB, RI STD 7.1.2	RLS	RIPRAP LEVEL SPREADER
7.1.9	PRECAST CONCRETE RAMP STONE	RTLD	REFER TO LANDSCAPE DRAWINGS
7.3.0	GRANITE CURB	SGA	SPECIAL GRADED AGGREGATE
43.1.0M	CEMENT CONCRETE SIDEWALK, RI STD 43.1.0M	STP	SELECTIVE TREE TRIMMING AND PRUNING (SEE DETAIL)
43.3.0	WHEELCHAIR RAMP	SWG	SWING GATE (WIDTH)
48.1.0M	DETECTABLE WARNING PANEL PLACEMENT	TIP	TEMPORARY INLET PROTECTION (SEE DETAIL)
ATG	ADJUST TO GRADE	VFS	VEGETATED FILTER STRIP (SEE DETAIL)
CCW	CUT AND CAP WATER	YL	YIELD LINE (SEE DETAIL)
CFS	COMPOST FILTER SOCK	4DY	4" DASHED YELLOW EPOXY RESIN BIKE PATH STRIPING
CG	CLEAR AND GRUB TREES AND VEGETATION	12W	12" WHITE EPOXY RESIN PAVEMENT STRIPING
CLF	CHAIN LINK FENCE		
CM	CUT AND MATCH		
CS	CRUSHED SHELL (SEE DETAIL)		
CTE	CONNECT TO EXISTING		
CW	CROSS WALK (SEE DETAIL)		
CW1	CROSS WALK AT ROUTE 138 (SEE DETAIL)		
DC	REMOVE AND DISPOSE CURB		
DFP	REMOVE AND DISPOSE FLEXIBLE PAVEMENT		
DG	REMOVE AND DISPOSE GUARDRAIL		
DSW	REMOVE AND DISPOSE SIDEWALK		
DTP	DRIP LINE TREE PROTECTION (SEE DETAIL)		
DW	REMOVE AND DISPOSE WATER		
DWP	DETECTABLE WARNING PAYER (SEE DETAIL)		
ETR	EXISTING TO REMAIN		
G	GRAVEL DRIVE		
GCB	GRANITE COBBLE BAND		
GV	GATE VALVE		
HYD	FIRE HYDRANT ASSEMBLY (SEE DETAIL)		
LS	LOAM AND SEED (SEE LANDSCAPE DRAWINGS FOR DETAILS)		
P1	1.5" CLASS 9.5 HMA 2.5" CLASS 12.5 HMA 12" GRAVEL BORROW SUBBASE COURSE ADDITIONAL GRAVEL SUBBASE AS REQUIRED ASPHALT EMULSION TACK COAT BETWEEN HMA LAYERS		
P2	1.5" CLASS 9.5 HMA 4" CLASS 12.5 HMA 12" GRAVEL BORROW SUBBASE COURSE ASPHALT EMULSION TACK COAT BETWEEN HMA LAYERS		
P3	1.5" CLASS 9.5 HMA 5" CLASS 19.0 HMA (PLACED IN 2 LAYERS) 12" GRAVEL BORROW SUBBASE COURSE ASPHALT EMULSION TACK COAT BETWEEN HMA LAYERS		
QFA	QUALIFYING PERVIOUS AREA (SEE DETAIL)		

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MARTIN D. WENDEL

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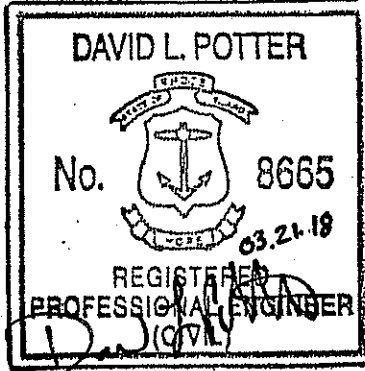


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DWG ISSUE & REVISION HISTORY

Stamp



Key Plan

Project Title:

URI/SOUTH COUNTY
BIKE PATH CONNECTOR

Drawing Title:

NOTES & LEGEND

Project No: 15180.03 Scale: AS NOTED

Drawn By:

Checked By:

Approved By:

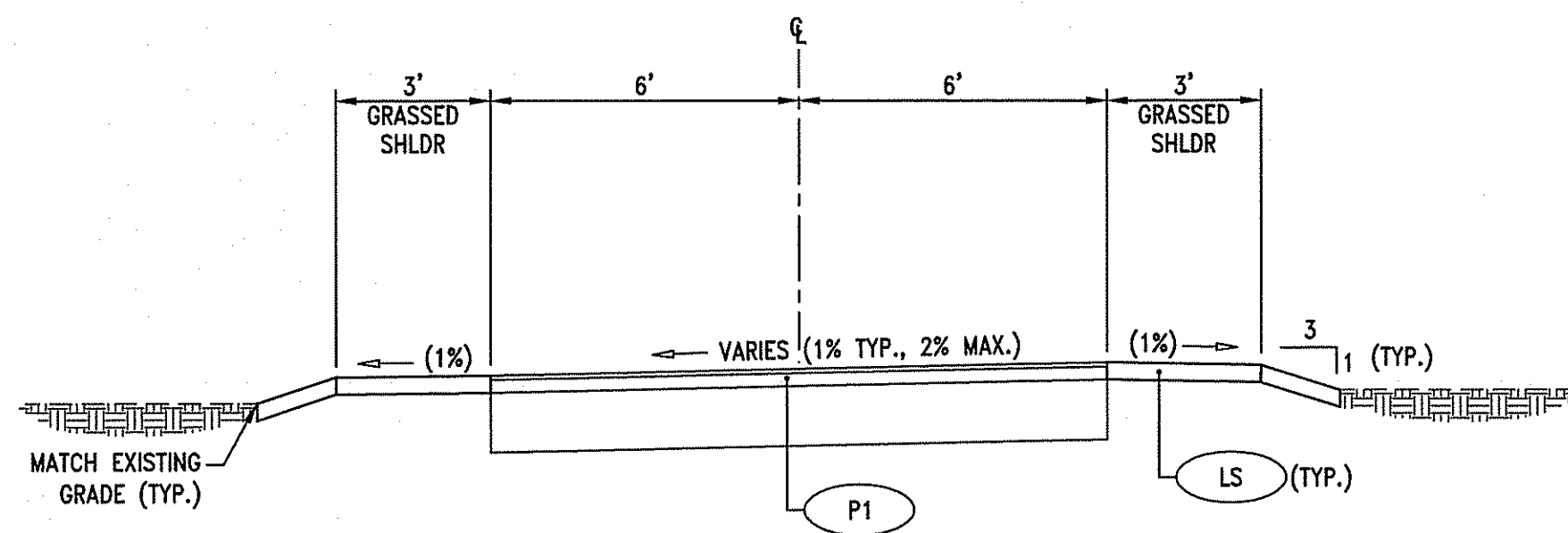
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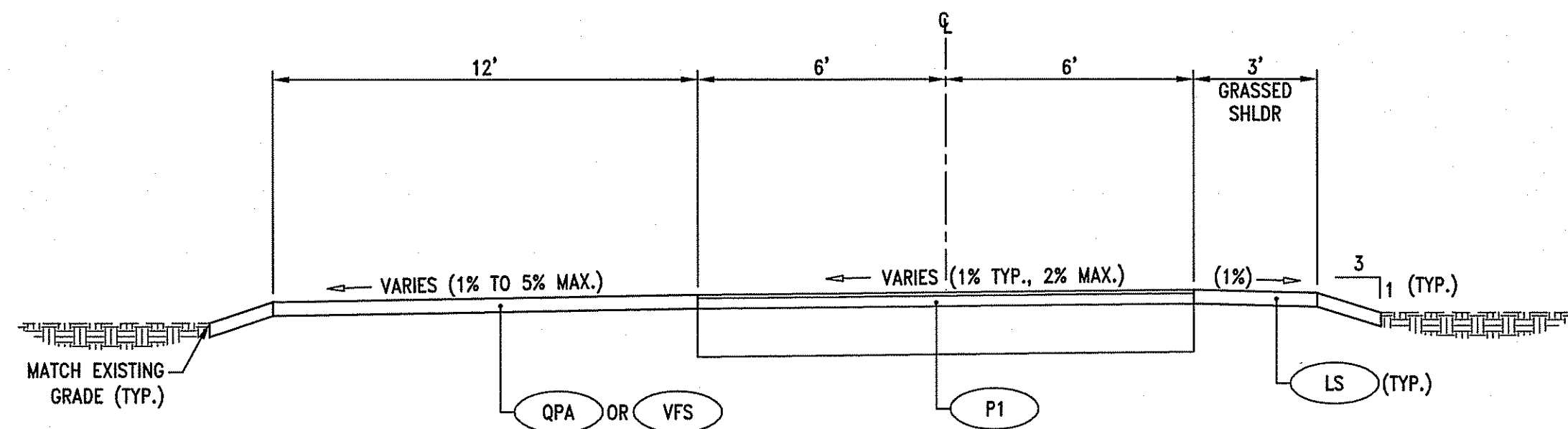
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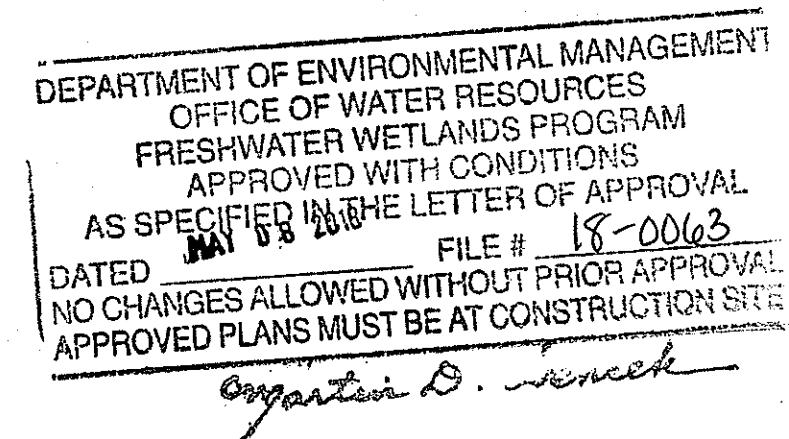
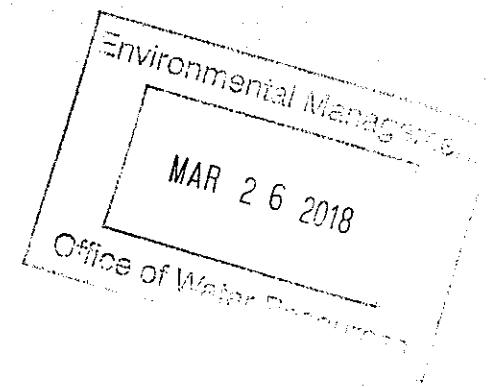


TYPICAL SECTION - BIKE PATH



TYPICAL SECTION - BIKE PATH WITH QPA/VFS

- LS LOAM AND SEED (SEE LANDSCAPE DRAWINGS FOR DETAILS)
- P1 1.5" CLASS 9.5 HMA
2.5" CLASS 12.5 HMA
12" GRAVEL BORROW SUBBASE COURSE
ADDITIONAL GRAVEL SUBBASE AS REQUIRED
ASPHALT EMULSION TACK COAT BETWEEN HMA LAYERS
- QPA QUALIFYING PERVIOUS AREA (SEE DETAIL)
- VFS VEGETATED FILTER STRIP (SEE DETAIL)



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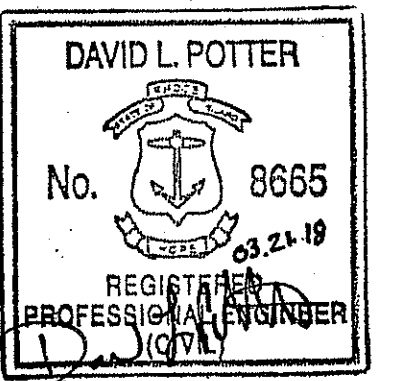
PARE CORPORATION
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401-334-4100

OWNER/APPLICANT:

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KINGSTON, RHODE ISLAND
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AP 23-1, LOT 1 & AP 30, LOTS 24 & 27

DWG ISSUE & REVISION HISTORY

Stamp



Key Plan

Project Title:

URI/SOUTH COUNTY
BIKE PATH CONNECTOR

Drawing Title:

TYPICAL SECTIONS

Project No: 15180.03 Scale: AS NOTED

Drawn By:

Checked By:

Approved By:

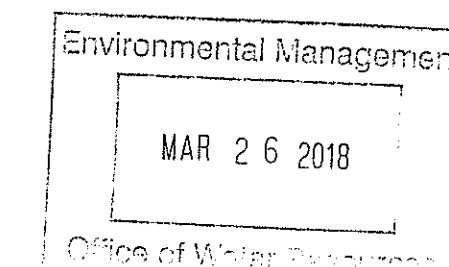
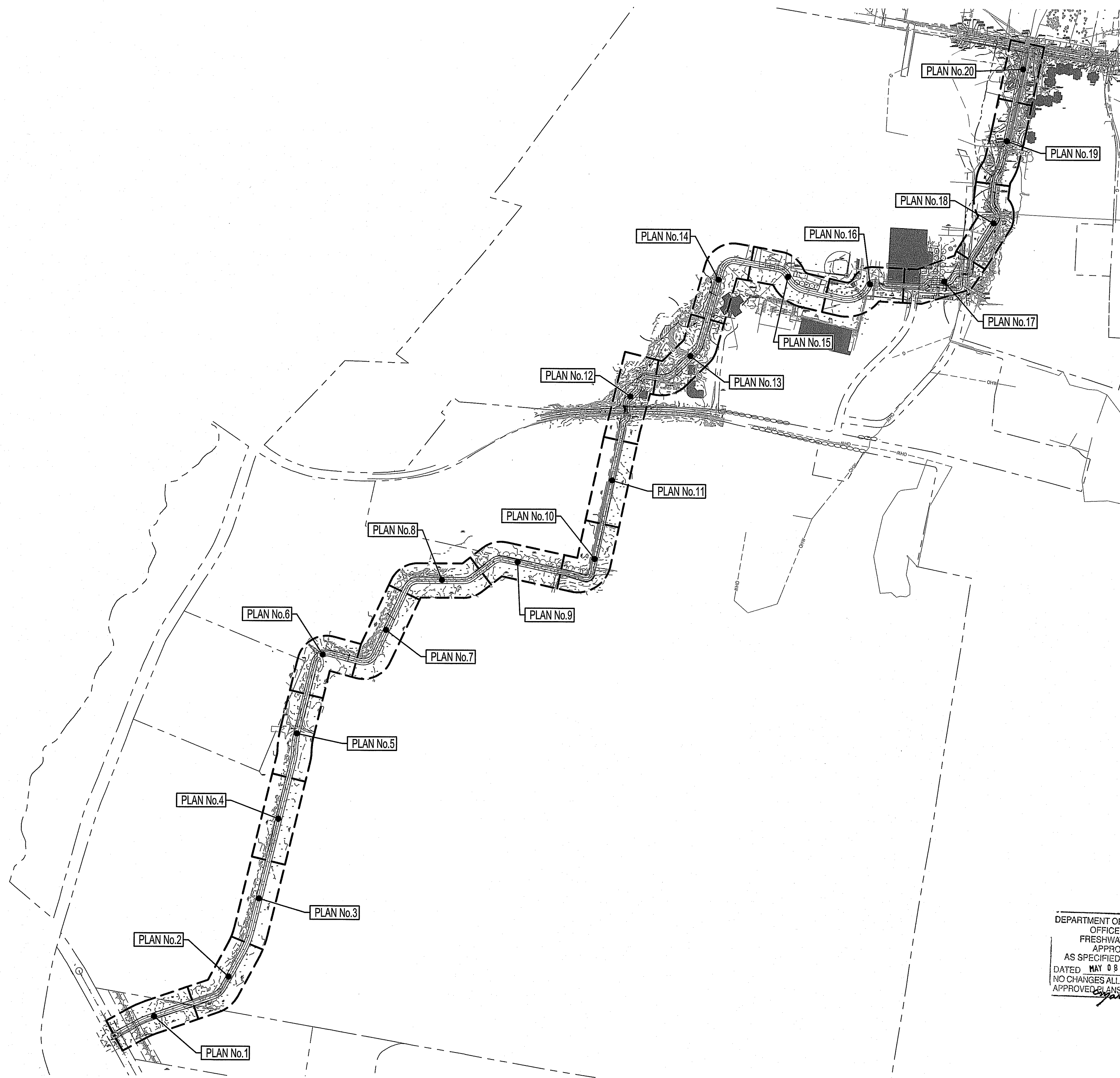
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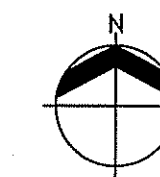
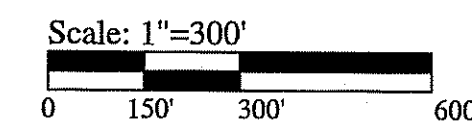
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Sheet No: 10 Of 54

3/20/18 3:44:20 PM Z:\JOBS\15180.03 Sasaki URI Bike Path-RIDWGS\1.04 KEY PLAN.dwg



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FRESHWATER WETLANDS PROGRAM
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DATED MAY 08 2018 FILE # 18-0063
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE

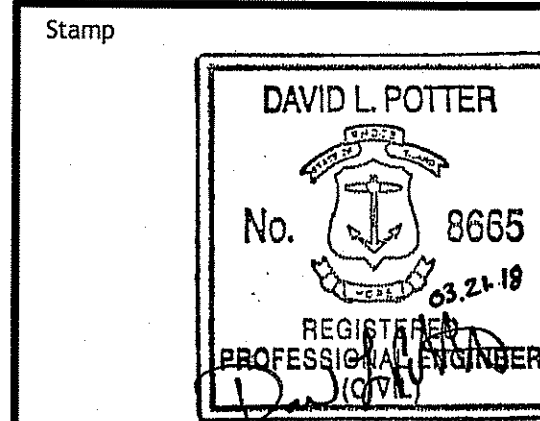


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DWG ISSUE & REVISION HISTORY



Key Plan

Project Title:

URI/SOUTH COUNTY
BIKE PATH CONNECTOR

Drawing Title:

KEY PLAN

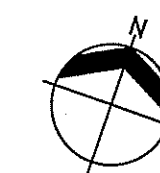
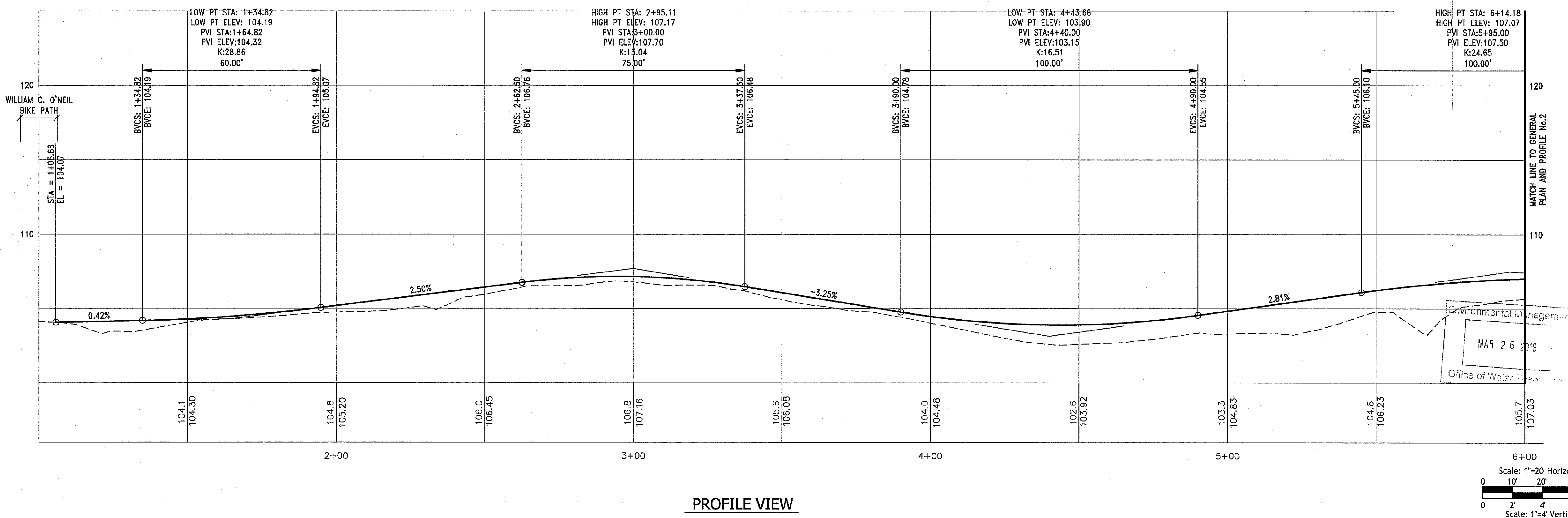
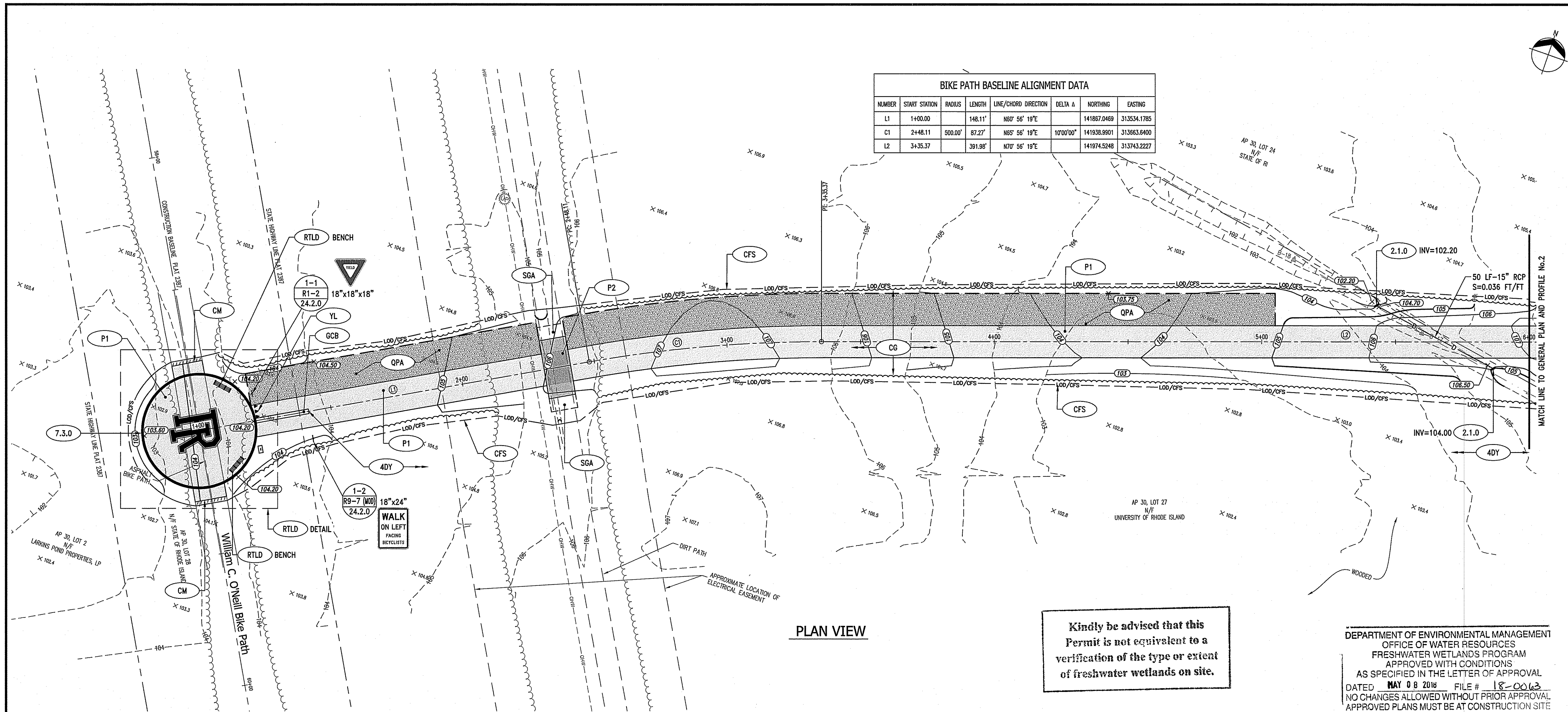
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Drawn By:
Checked By:
Approved By:
Date: 03/21/2018

Drawing No:

C1.04

Sheet No: 11 Of 54

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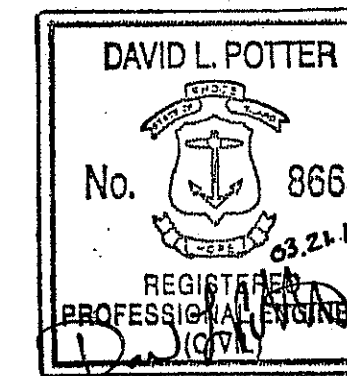


PARE CORPORATION
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LINCOLN, RI 02865
401-354-1100

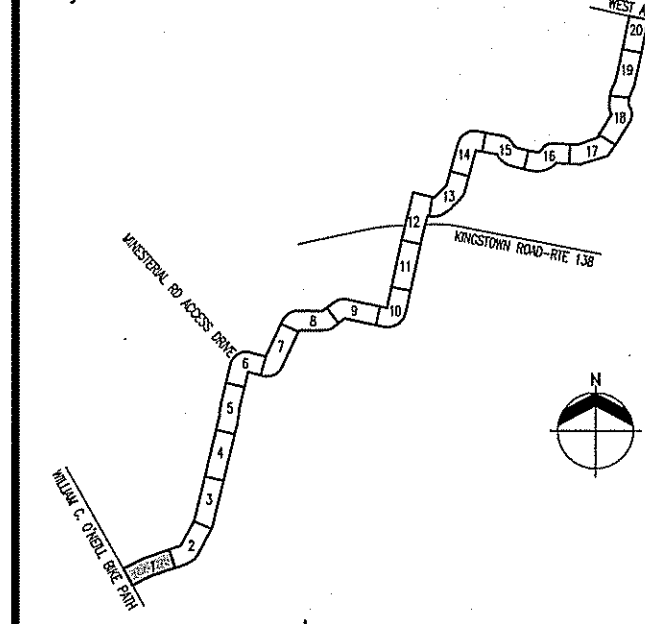
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60 TOTTEN ROAD
KINGSTON, RHODE ISLAND
TEL: 401-874-2725
AP 23-1, LOT 1 & AP 30, LOTS 24 & 27

DWG ISSUE & REVISION HISTORY

Stamp



Key Plan



Project Title:

URI/SOUTH COUNTY
BIKE PATH CONNECTOR

Drawing Title:

GENERAL PLAN
AND
PROFILE No. 1

Project No: 15180.03 Scale: AS NOTED
Drawn By:
Checked By:
Approved By:
Date: 03/21/2018

Drawing No:

C2.01

Sheet No: 12 of 54

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P 617 926 3300 F 617 924 2749 W SASAKI.COM



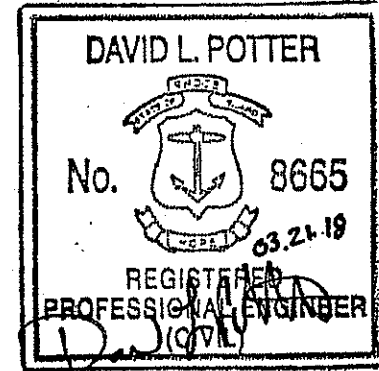
PARE CORPORATION
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LINCOLN, RI 02865
401-334-4100

OWNER/APPLICANT:

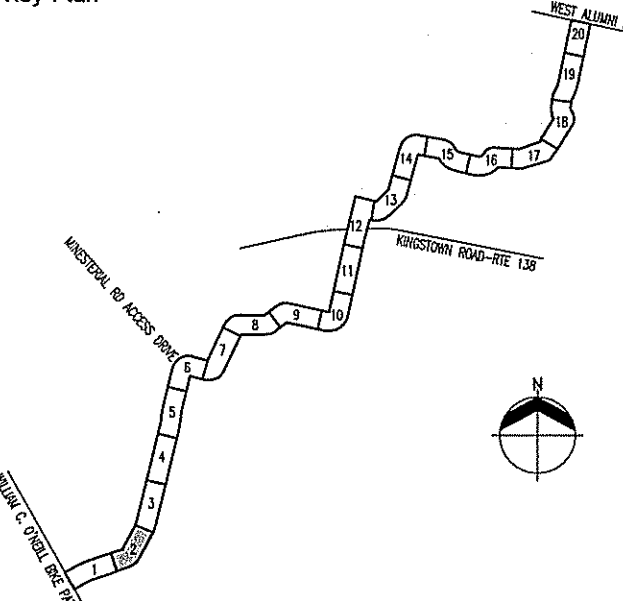
UNIVERSITY OF RHODE ISLAND
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60 TOOTELL ROAD
KINGSTON, RHODE ISLAND
TEL: 401-874-2726
AP 23-1, LOT 1 & AP 30, LOTS 24 & 27

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Stamp



Key Plan



Project Title:

URI/SOUTH COUNTY
BIKE PATH CONNECTOR

Drawing Title:

GENERAL PLAN
AND
PROFILE No.2

Project No: 15180.03

Scale: AS NOTED

Drawn By:

Checked By:

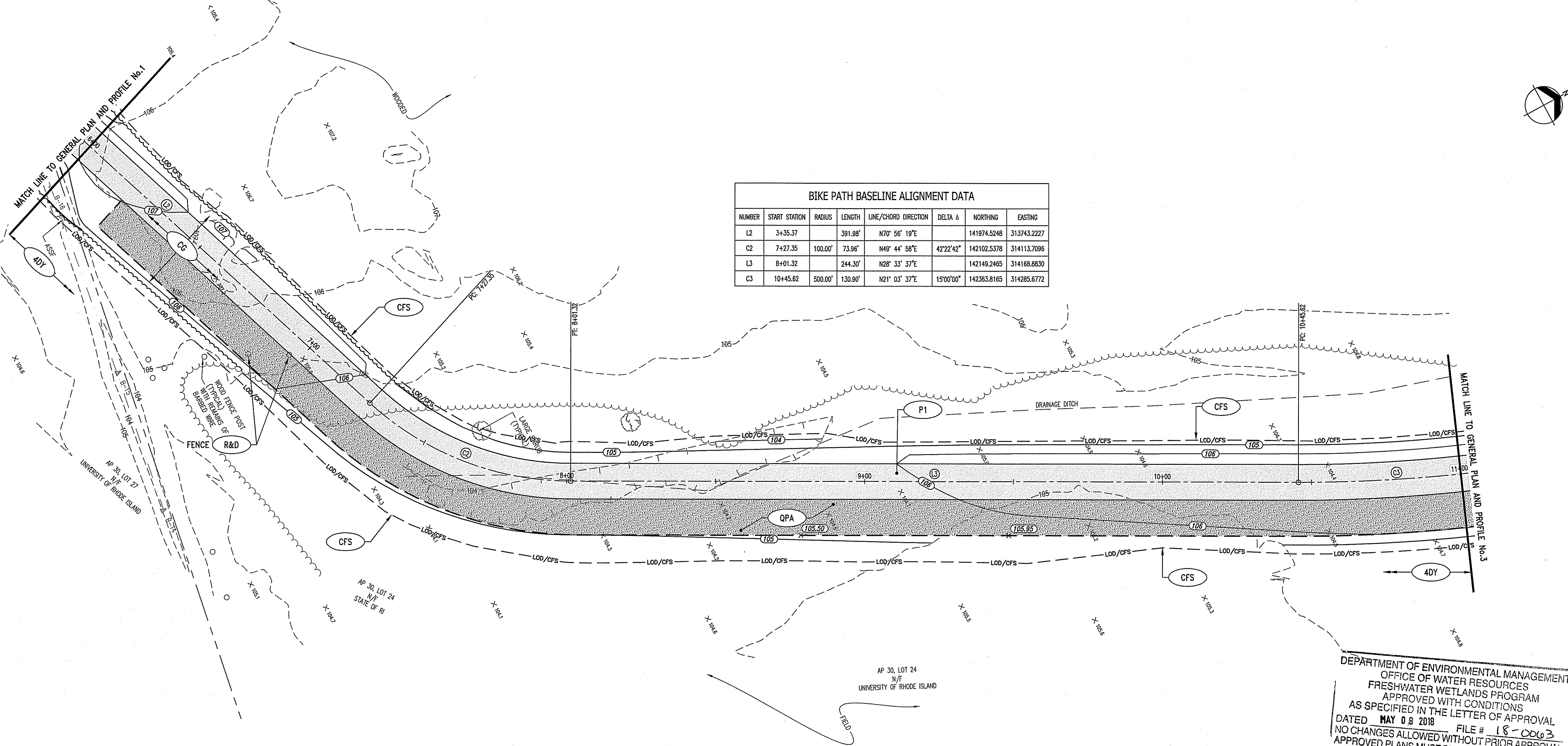
Approved By:

Date: 03/21/2018

Drawing No:

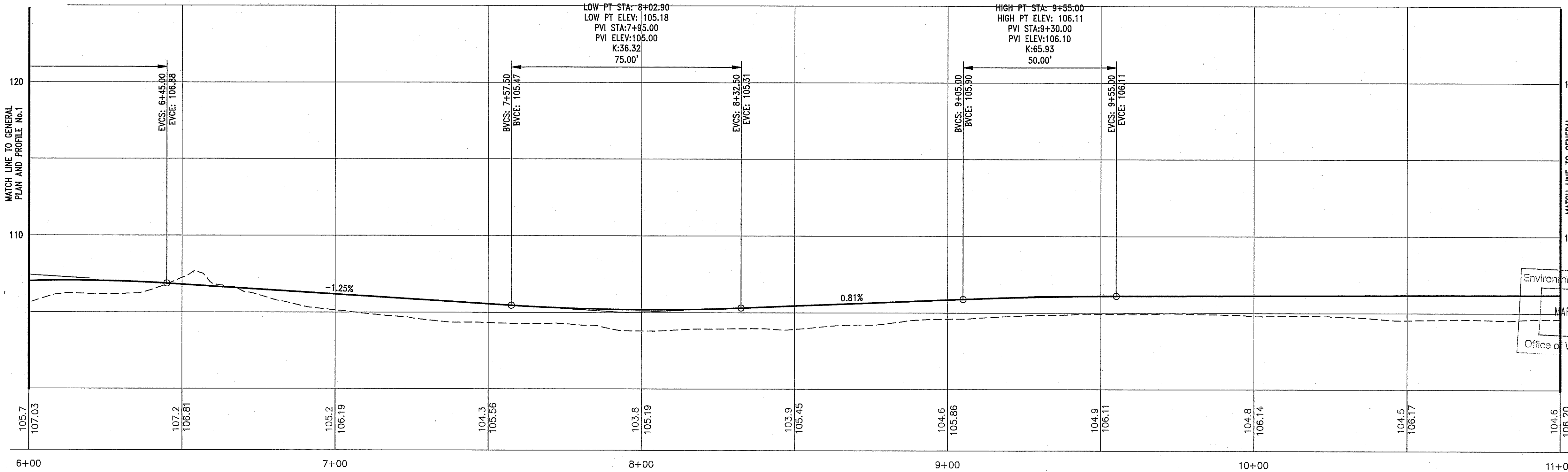
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Sheet No: 13 Of 54

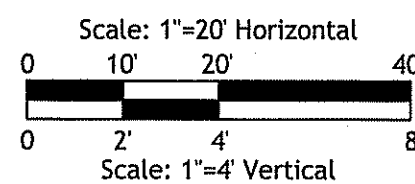


NUMBER	START STATION	RADIUS	LENGTH	LINE/CHORD DIRECTION	DELTA Δ	NORTHING	EASTING
L2	3+35.37		391.98'	N70° 56' 19"E		141974.5248	313743.2227
C2	7+27.35	100.00'	73.96'	N49° 44' 58"E	42° 22' 42"	142102.5378	314113.7096
L3	8+01.32		244.30'	N28° 33' 37"E		142149.2465	314168.8830
C3	10+45.82	500.00'	130.90'	N21° 03' 37"E	15° 00' 00"	142363.8165	314285.6772

PLAN VIEW



PROFILE VIEW



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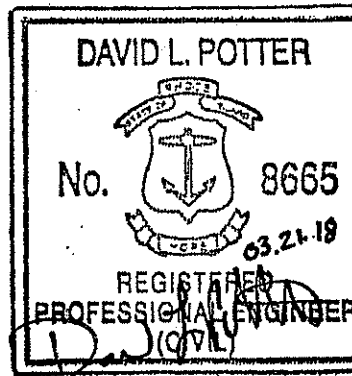
PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

OWNER/APPLICANT:

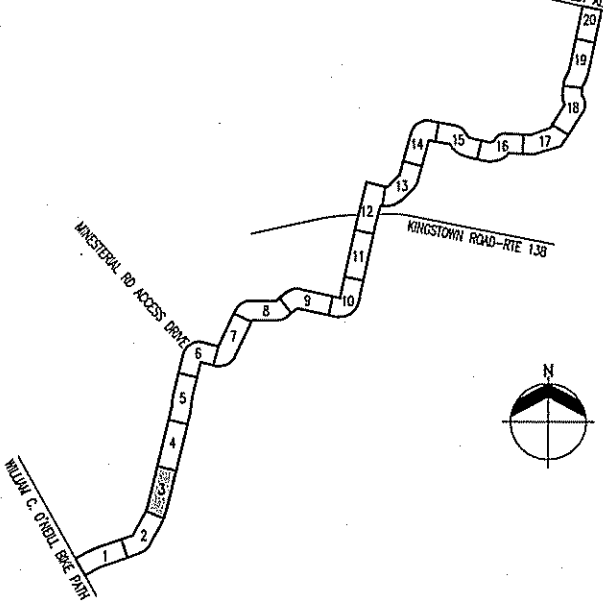
UNIVERSITY OF RHODE ISLAND
OFFICE OF CAPITAL PROJECTS
60 TOOTELL ROAD
KINGSTON, RHODE ISLAND
TEL: 401-874-2725
AP 23-1, LOT 1 & AP 30, LOTS 24 & 27

DWG ISSUE & REVISION HISTORY

Stamp



Key Plan



Project Title:

URI/SOUTH COUNTY
BIKE PATH CONNECTOR

Drawing Title:

GENERAL PLAN
AND
PROFILE No.3

Project No: 15180.03 Scale: AS NOTED

Drawn By:

Checked By:

Approved By:

Date: 03/21/2018

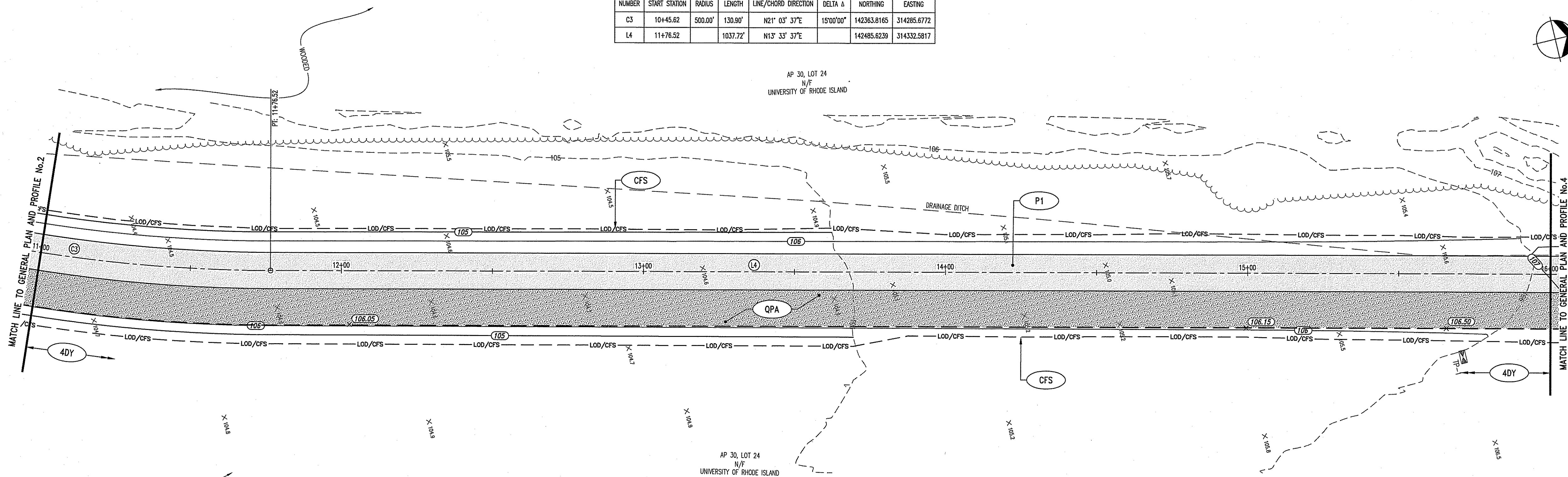
Drawing No:

C2.03

Sheet No. 14. Of 54

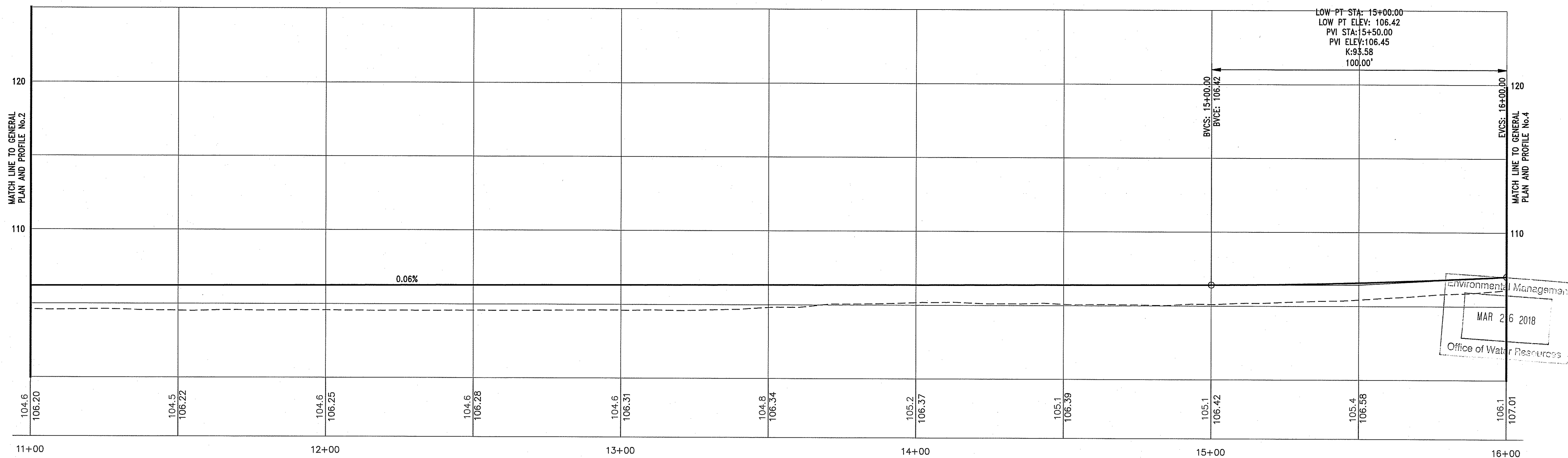
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NUMBER	START STATION	RADIUS	LENGTH	LINE/CHORD DIRECTION	DELTA A	NORTHING EASTING
C3	10+45.62	500.00'	130.90'	N21° 03' 37"E	15°00'00"	142363.8165 314285.6772
L4	11+76.52		1037.72'	N13° 33' 37"E		142485.6239 314332.5817

AP 30, LOT 24
N/F
UNIVERSITY OF RHODE ISLAND

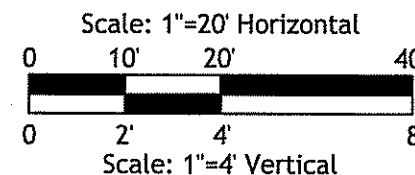


PLAN VIEW

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 08 2018 FILE # 18-0063
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Christopher D. Senack



PROFILE VIEW



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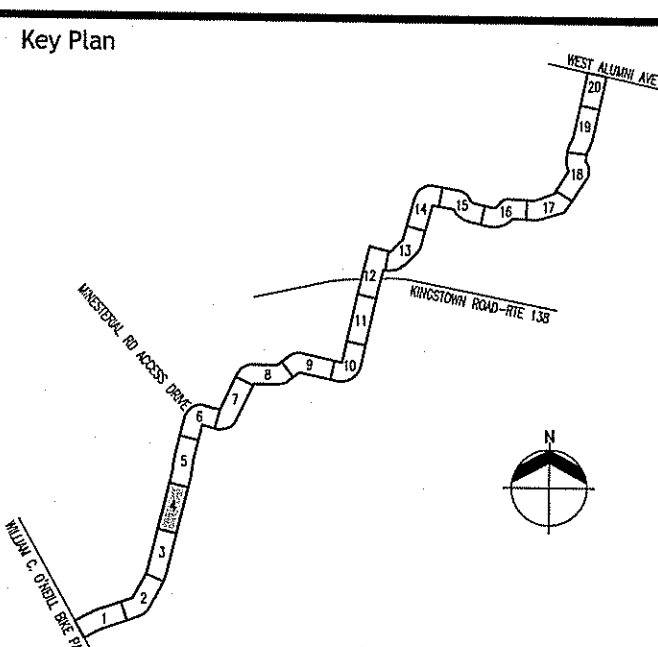
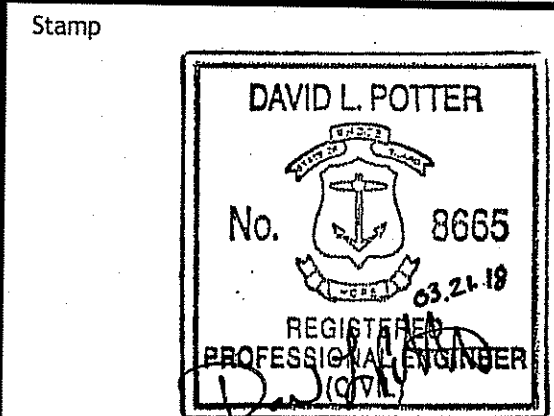
64 PLEASANT STREET WATERTOWN MA 02472 USA
P 617 926 3300 F 617 924 2748 W SASAKI.COM



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401-334-4100

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OFFICE OF CAPITAL PROJECTS
80 TOTTEN ROAD
KINGSTON, RHODE ISLAND
TEL: 401-874-2725
AP 23-1, LOT 1 & AP 30, LOTS 24 & 27

DWG ISSUE & REVISION HISTORY



Project Title:

URI/SOUTH COUNTY
BIKE PATH CONNECTOR

Drawing Title:

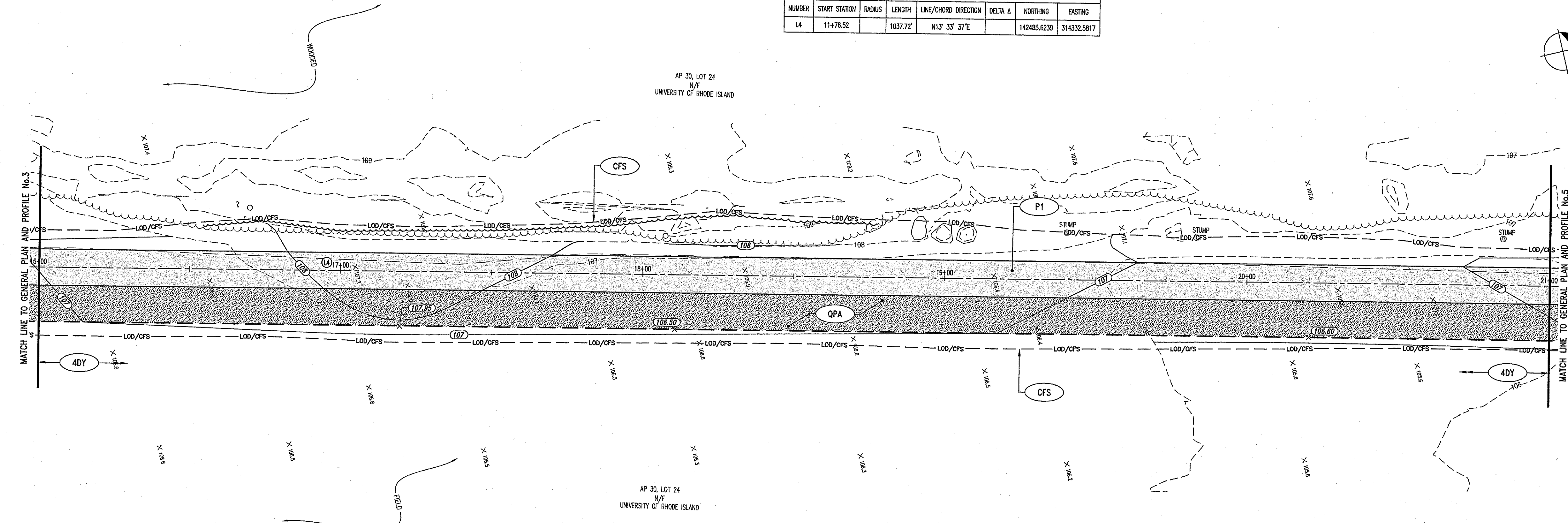
GENERAL PLAN
AND
PROFILE No.4

Project No: 15180.03 Scale: AS NOTED
Drawn By:
Checked By:
Approved By:
Date: 03/21/2018

Drawing No:

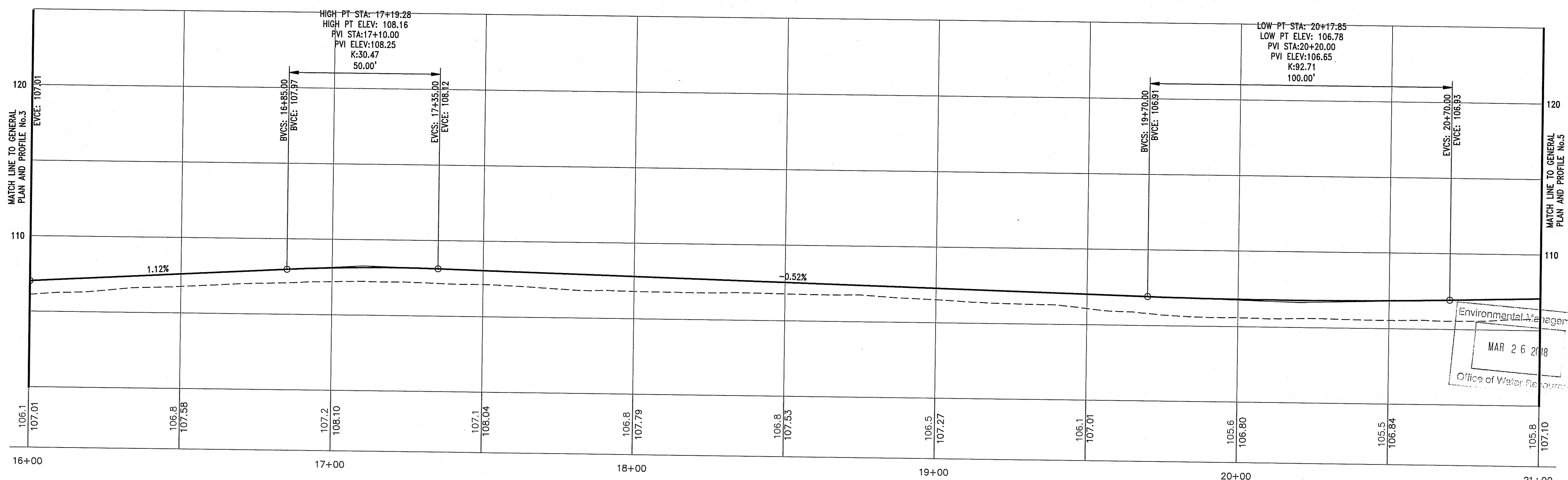
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Sheet No. 15 Of 54

BIKE PATH BASELINE ALIGNMENT DATA						
NUMBER	START STATION	RADIUS	LENGTH	LINE/CHORD DIRECTION	DELTA A	NORTHING
L4	11+76.52		1037.72'	N13° 33' 37"E		142485.6239
						314332.5817



PLAN VIEW

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 08 2018 FILE # 18-0063
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Signature: D. Wenzel



PROFILE VIEW

Scale: 1"=20' Horizontal
1"=4' Vertical

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64 PLEASANT STREET WATERTOWN MA 02472 USA
P 617 926 8300 F 617 924 2148 W SASAKI.COM

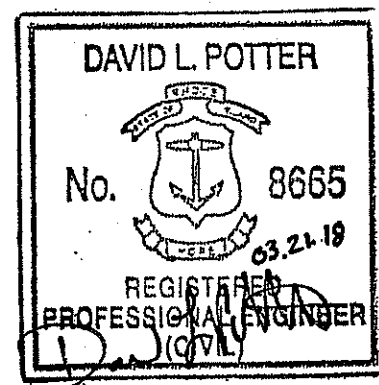


PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

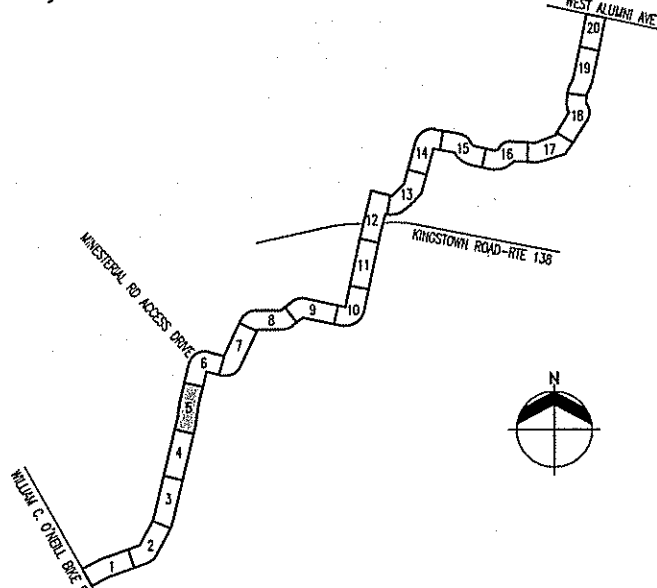
OWNER/APPLICANT:
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OFFICE OF CAPITAL PROJECTS
80 TOOTELL ROAD
KINGSTON, RHODE ISLAND
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DWG ISSUE & REVISION HISTORY

Stamp



Key Plan



Project Title:

URI/SOUTH COUNTY
BIKE PATH CONNECTOR

Drawing Title:

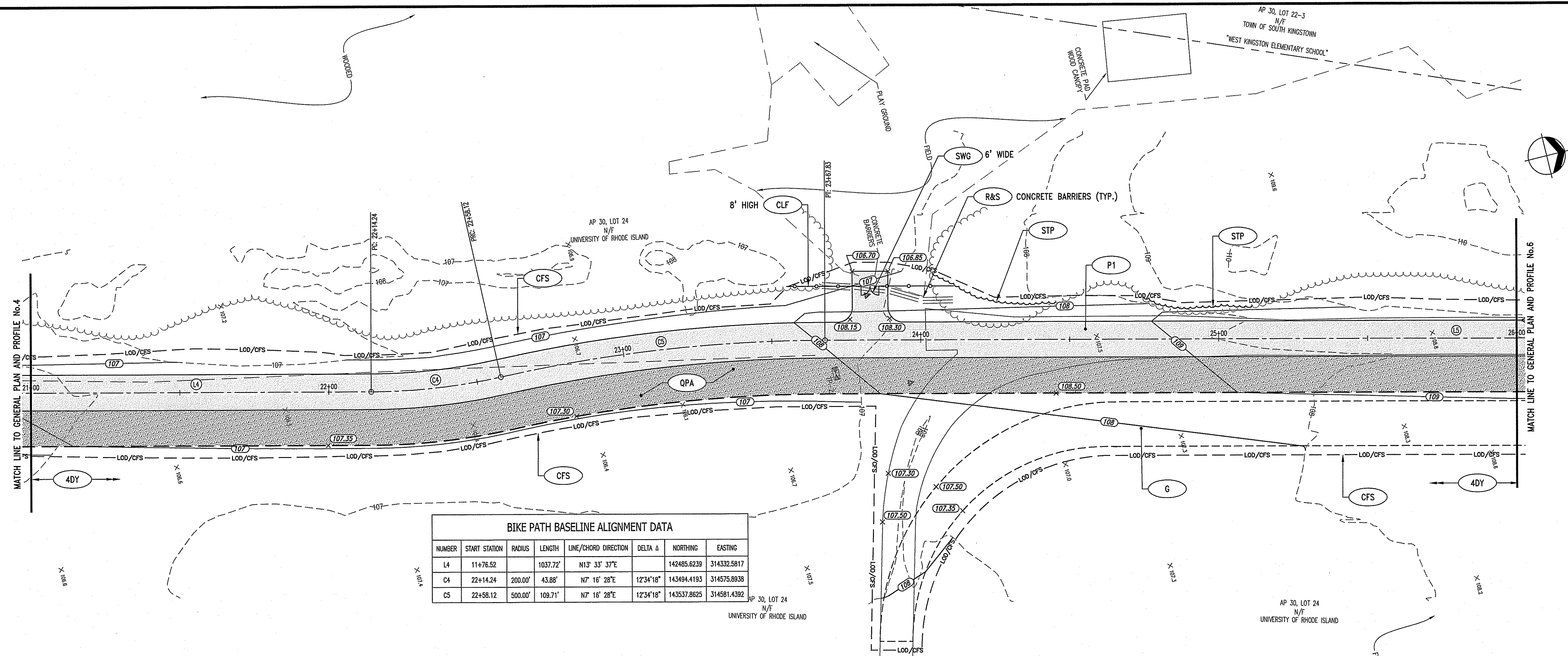
GENERAL PLAN
AND
PROFILE No.5

Project No: 15180.03 Scale: AS NOTED
Drawn By:
Checked By:
Approved By:
Date: 03/21/2018

Drawing No:

C2.05

Sheet No: 16 Of 54

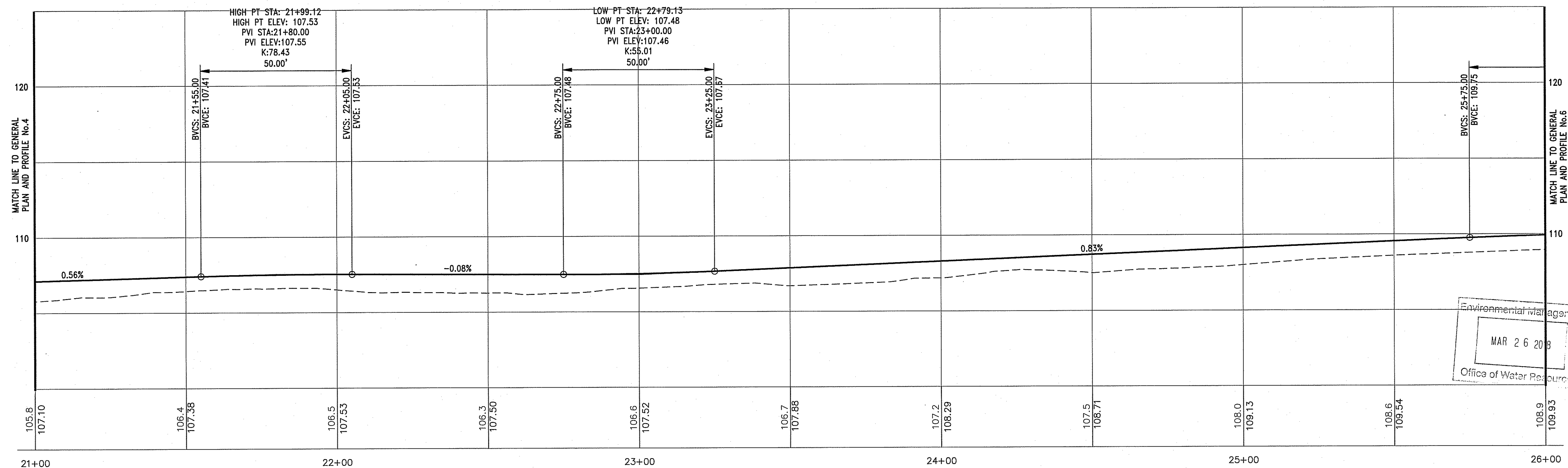


PLAN VIEW

BIKE PATH BASELINE ALIGNMENT DATA							
NUMBER	START STATION	RADIUS	LENGTH	LINE/CHORD DIRECTION	DELTA Δ	NORTHING	EASTING
L4	11+76.52		1037.72'	N13° 33' 37"E		142485.6239	314332.5817
C4	22+14.24	200.00'	43.88'	N7° 16' 28"E	123° 41' 18"	143494.4193	314575.8938
C5	22+58.12	500.00'	109.71'	N7° 16' 28"E	123° 34' 18"	143537.8625	314581.4392

AP 30, LOT 24
N/F
UNIVERSITY OF RHODE ISLAND

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 08 2018 FILE # 18-0063
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Christopher D. Wenzel



PROFILE VIEW

Scale: 1"=20' Horizontal
0 10' 20' 40'
Scale: 1"=4' Vertical
0 2' 4' 8'

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LINCOLN, RI 02865
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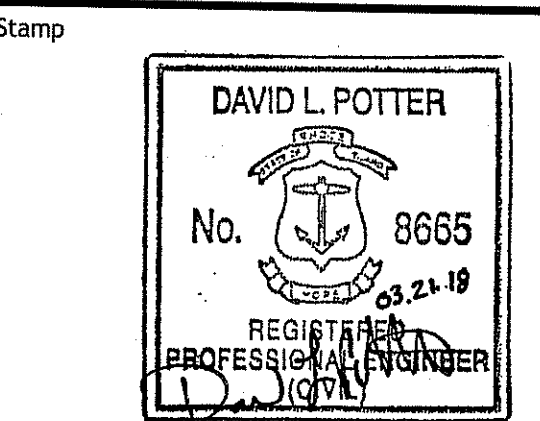
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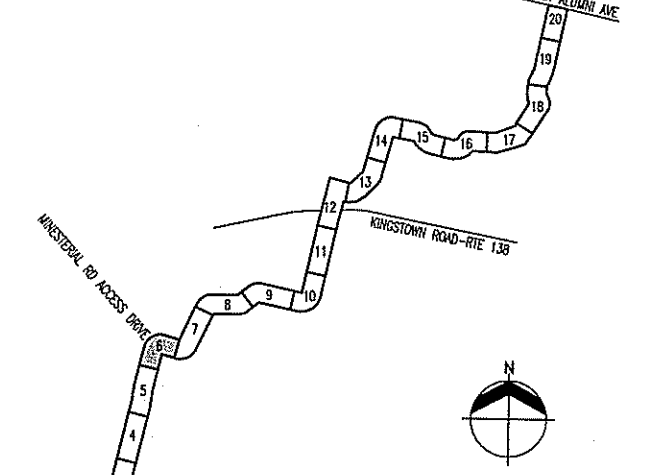
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of freshwater wetlands on site.

DWG ISSUE & REVISION HISTORY



Key Plan



Project Title:

URI/SOUTH COUNTY
BIKE PATH CONNECTOR

Drawing Title:

GENERAL PLAN
AND
PROFILE No.6

Project No: 15180.03 Scale: AS NOTED

Drawn By:

Checked By:

Approved By:

Date: 03/21/2018

Drawing No:

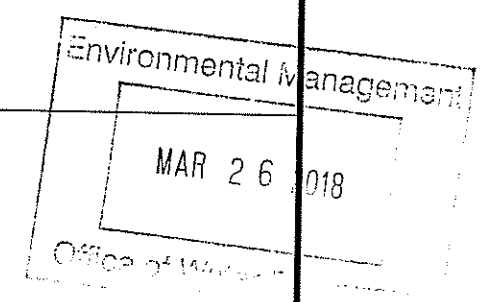
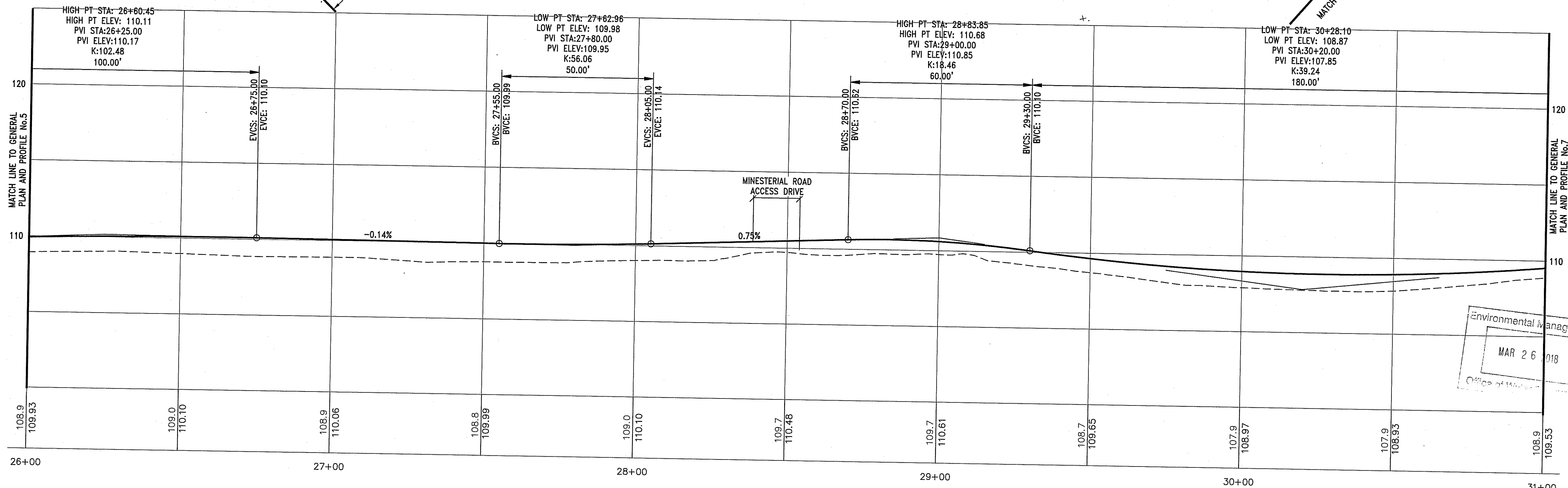
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Sheet No: 17 Of 54

BIKE PATH BASELINE ALIGNMENT DATA							
NUMBER	START STATION	RADIUS	LENGTH	LINE/CHORD DIRECTION	DELTA Δ	NORTHING	EASTING
L5	23+67.83		423.77'	N13° 33' 37"E		143646.4707	314595.3028
C6	27+91.60	75.00'	119.77'	N59° 18' 37"E	91°30'00"	144058.4248	314694.6624
L6	29+11.37		180.91'	S74° 56' 23"E		144113.2657	314787.0592

PLAN VIEW

PROFILE VIEW



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P 617 926 3800 F 617 924 2748 W SASAKI.COM



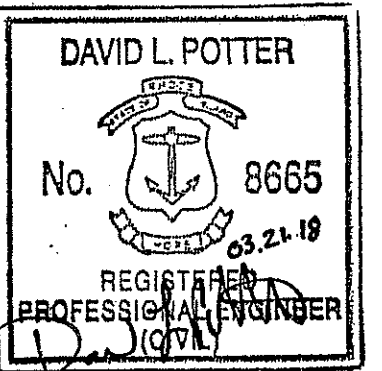
PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

OWNER/APPLICANT:

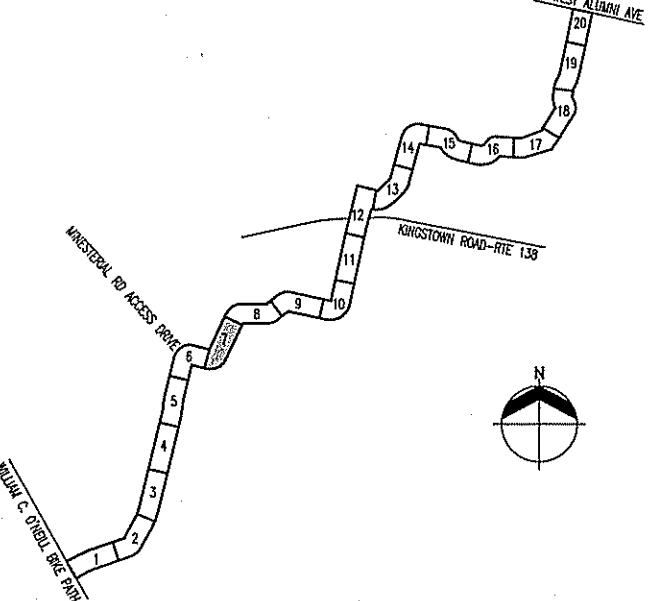
UNIVERSITY OF RHODE ISLAND
OFFICE OF CAPITAL PROJECTS
60 TOTTEN ROAD
KINGSTON, RHODE ISLAND
TEL: 401-874-2725
AP 23-1, LOT 1 & AP 30, LOTS 24 & 27

DWG ISSUE & REVISION HISTORY

Stamp



Key Plan



Project Title:

URI/SOUTH COUNTY
BIKE PATH CONNECTOR

Drawing Title:

GENERAL PLAN
AND
PROFILE No.7

Project No: 15180.03 Scale: AS NOTED

Drawn By:

Checked By:

Approved By:

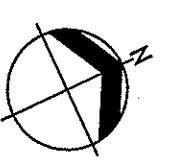
Date: 03/21/2018

Drawing No:

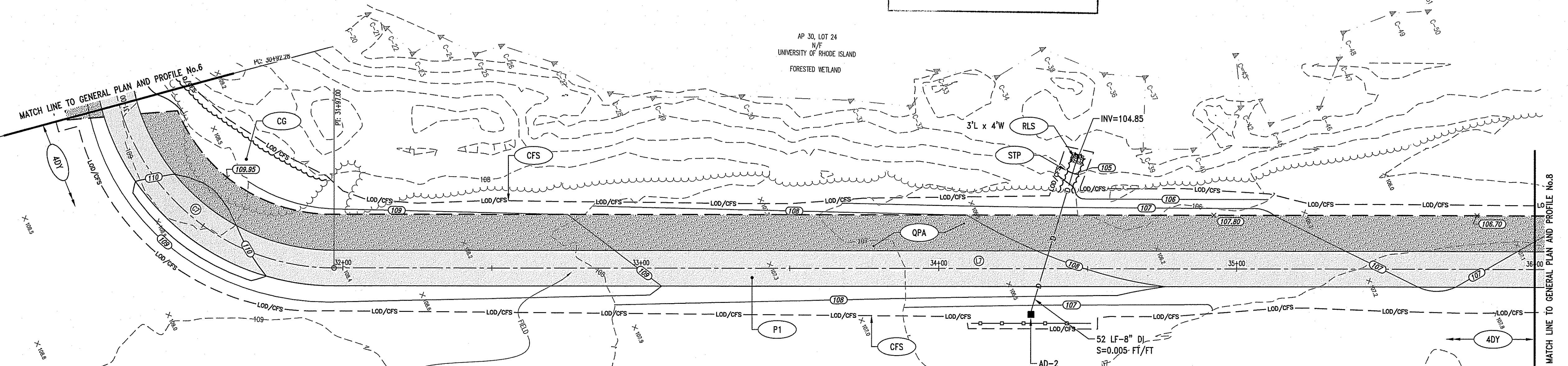
C2.07

Sheet No: 18 Of 54

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Permit is not equivalent to a
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of freshwater wetlands on site.



AP 30, LOT 24
N/F
UNIVERSITY OF RHODE ISLAND
FORESTED WETLAND

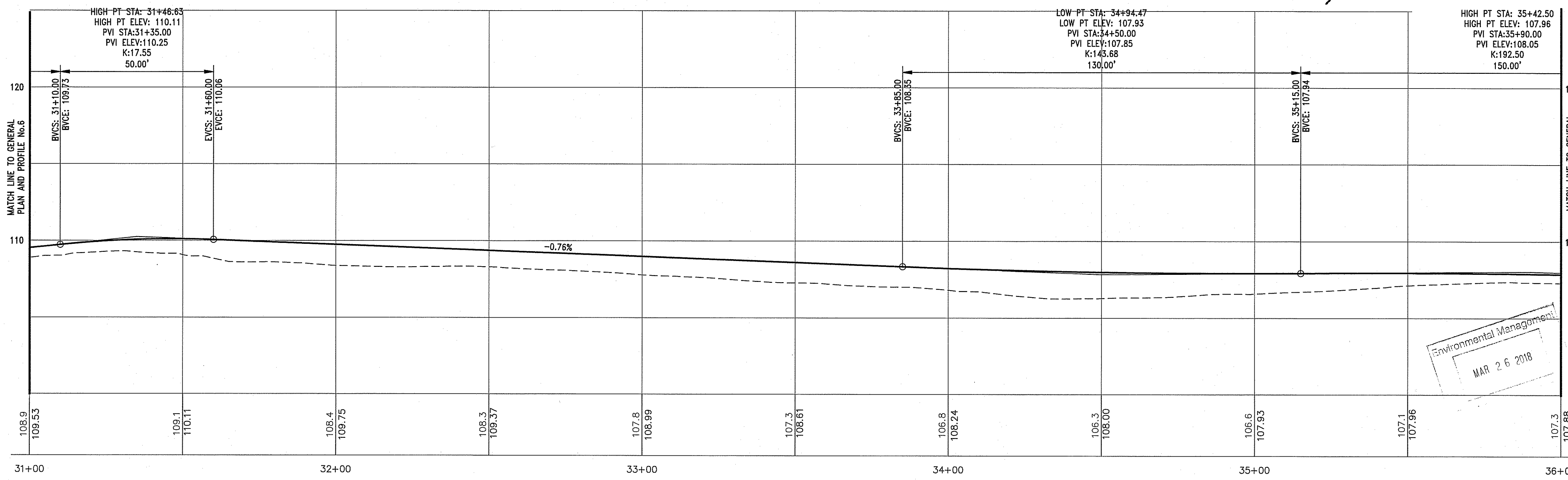


BIKE PATH BASELINE ALIGNMENT DATA							
NUMBER	START STATION	RADIUS	LENGTH	LINE/CHORD DIRECTION	DELTA A	NORTHING	EASTING
L6	29+11.37	180.91'	180.91'	S74° 56' 23"E	144113.2637	314787.0592	
C7	30+92.28	75.00'	104.72'	N65° 03' 37"E	80'00'00"	144066.2567	314961.7571
L7	31+97.00	432.91'	432.91'	N25° 03' 37"E	144106.9129	315048.1844	

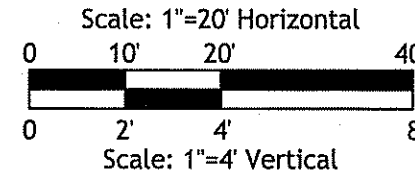
PLAN VIEW

AP 30, LOT 24
N/F
UNIVERSITY OF RHODE ISLAND

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 08 2018 FILE # 18-0063
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Christopher D. Wenzel



PROFILE VIEW



SASAKI

64 PLEASANT STREET, WATERTOWN MA 02472 USA
P 617 926 3300 F 617 924 2748 W SASAKI.COM



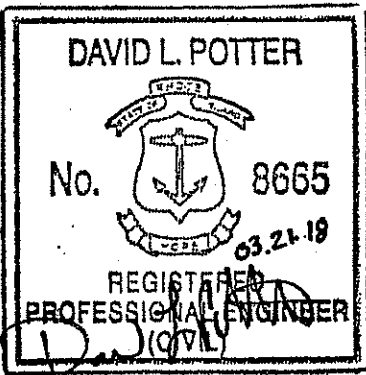
PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

OWNER/APPLICANT:

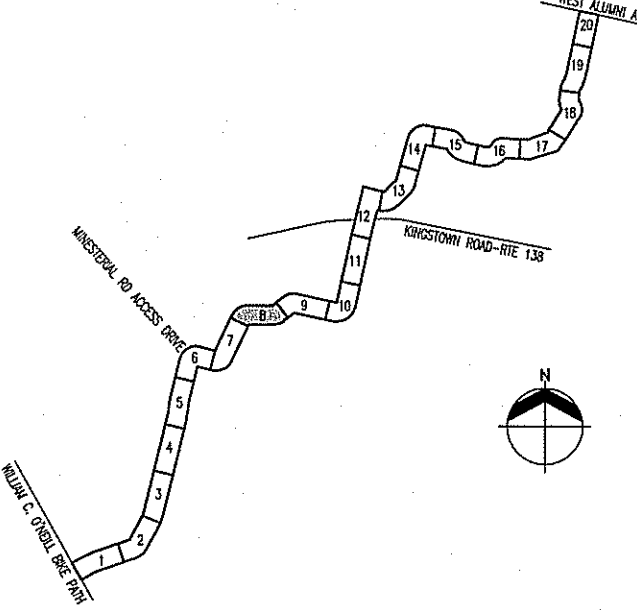
UNIVERSITY OF RHODE ISLAND
OFFICE OF CAPITAL PROJECTS
60 TOOTELL ROAD
KINGSTON, RHODE ISLAND
TEL: 401-874-2725
AP 23-1, LOT 1 & AP 30, LOTS 24 & 27

DWG ISSUE & REVISION HISTORY

Stamp



Key Plan



Project Title:

URI/SOUTH COUNTY
BIKE PATH CONNECTOR

Drawing Title:

GENERAL PLAN
AND
PROFILE No.8

Project No: 15180.03 Scale: AS NOTED

Drawn By:

Checked By:

Approved By:

Date: 03/21/2018

Drawing No:

C2.08

Sheet No: 19 of 54

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

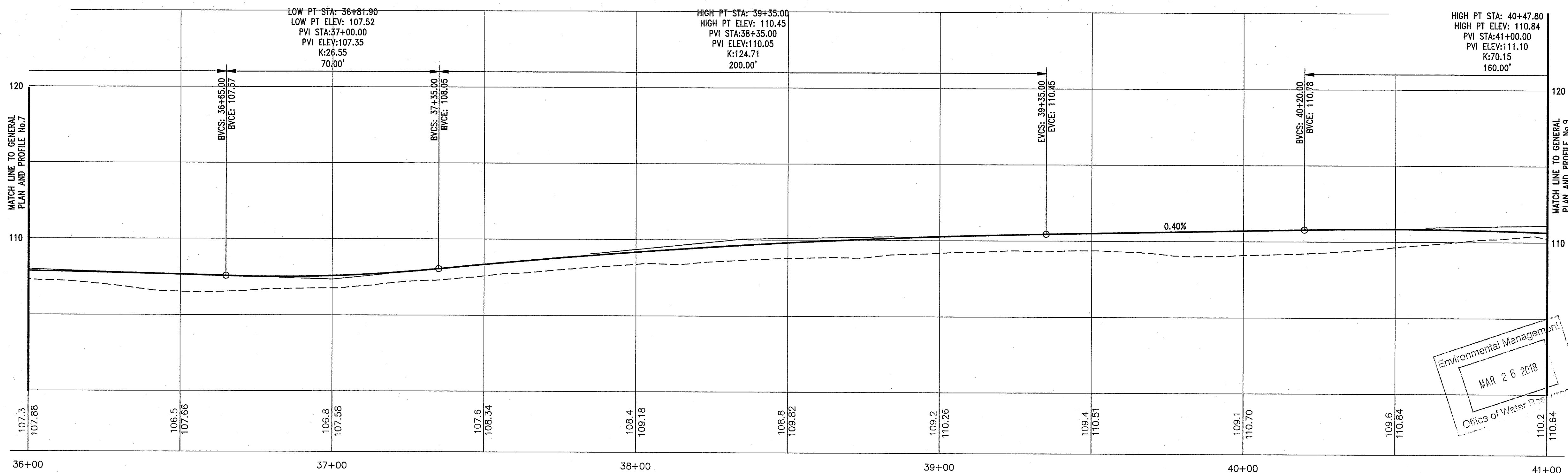
BIKE PATH BASELINE ALIGNMENT DATA

NUMBER	START STATION	RADIUS	LENGTH	LINE/CHORD DIRECTION	DELTA A	NORTHING	EASTING
L7	31+87.00	432.91'		N25° 03' 37"E		144106.9129	315049.1844
C8	36+29.91	75.00'	85.08'	N57° 33' 37"E	65°00'00"	144499.0715	315232.5531
L8	37+15.00	267.76'		S89° 56' 23"E		144542.3037	315300.5716
C9	39+49.76	75.00'	49.74'	N71° 03' 37"E	38°00'00"	144542.0222	315568.3307
L9	40+32.50	157.87'		N62° 03' 37"E		144557.8729	315614.5220

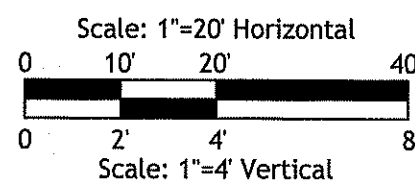
PLAN VIEW

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 08 2018 FILE # 18-0063
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

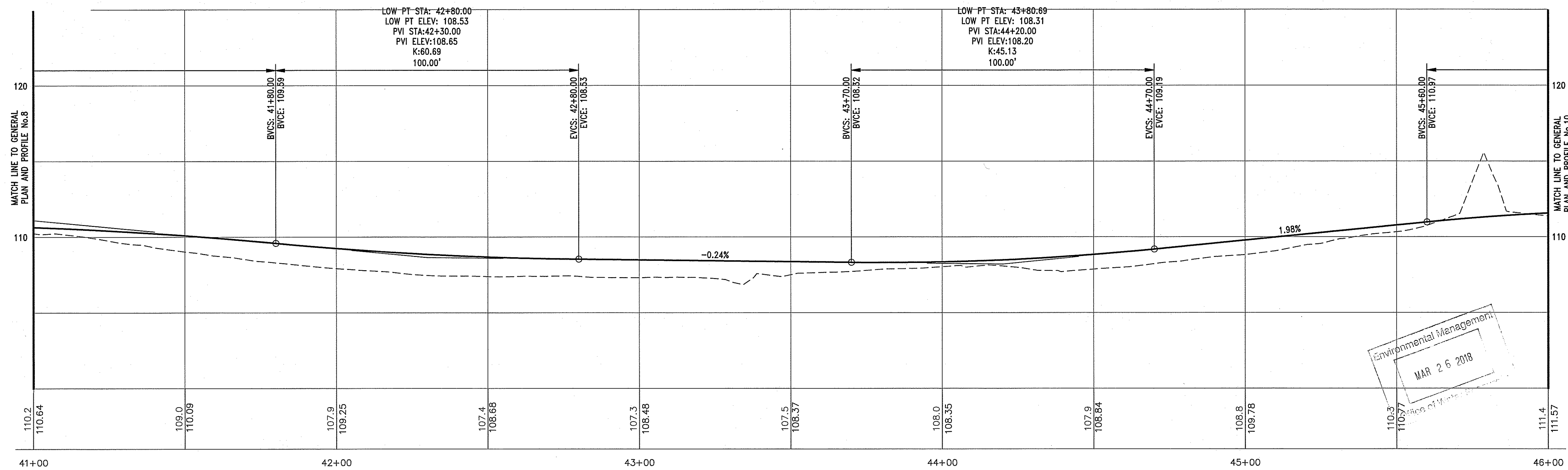
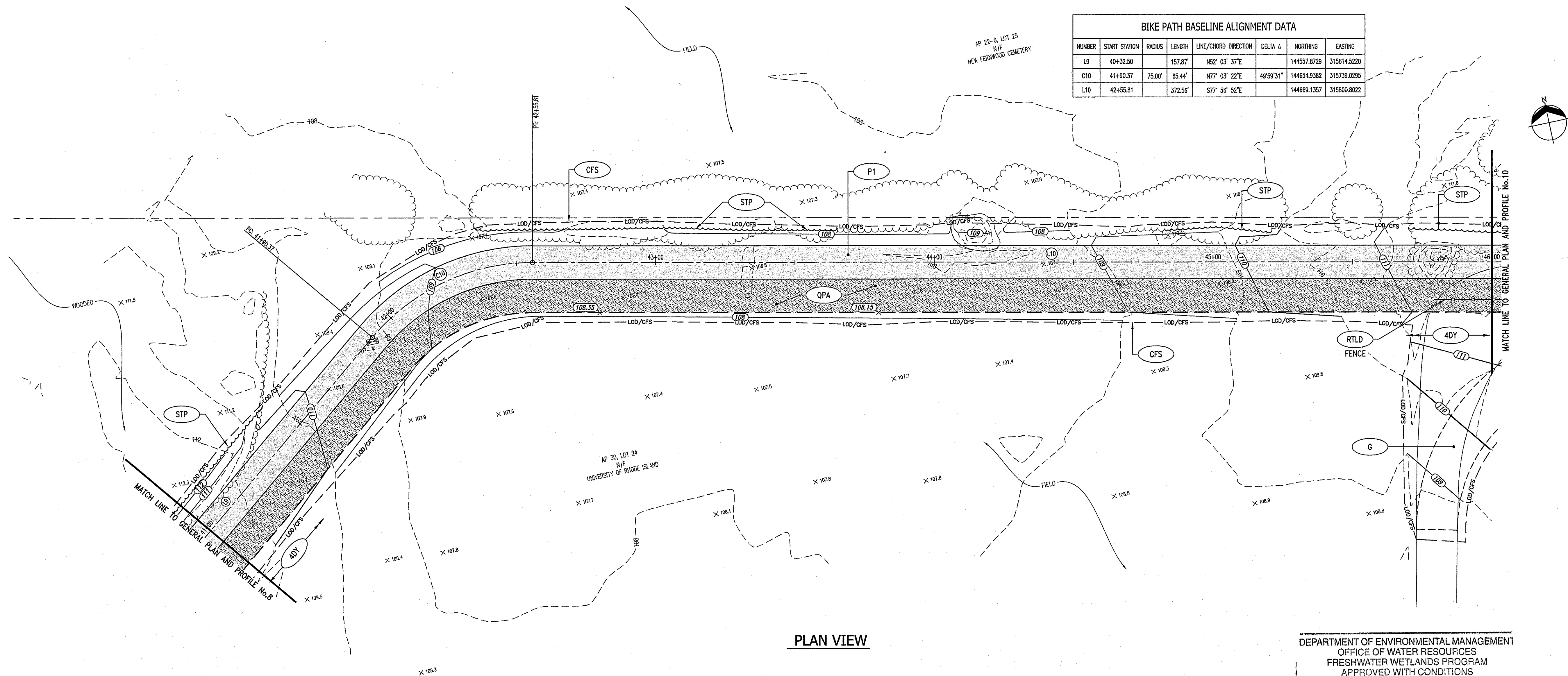
Signature of David L. Potter



PROFILE VIEW



3/20/18 1:15:35 PM Z:\005115 Jobs\15180.03 Sasaki-URI Bike Path-RUDWGS\2.09 GENERAL 9.dwg



SASAKI

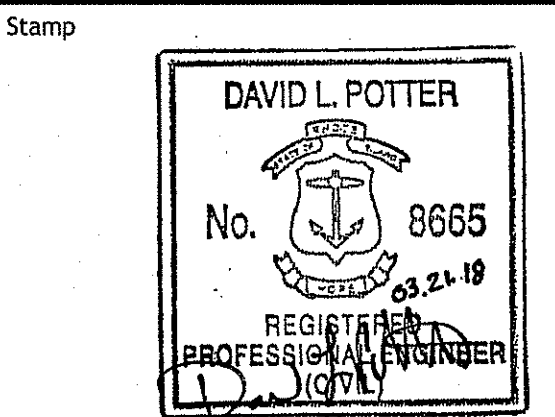
64 PLEASANT STREET WATERTOWN MA 02472 USA
P 617 926 9300 F 617 924 2748 W SASAKI.COM



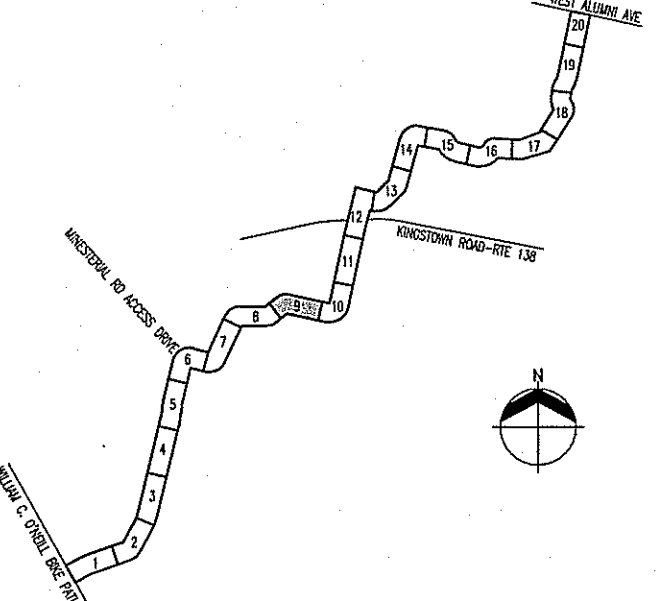
PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

OWNER/APPLICANT:
UNIVERSITY OF RHODE ISLAND
OFFICE OF CAPITAL PROJECTS
60 TOOTELL ROAD
KINGSTON, RHODE ISLAND
TEL: 401-874-2725
AP 23-1, LOT 1 & AP 30, LOTS 24 & 27

DWG ISSUE & REVISION HISTORY



Key Plan



Project Title:

URI/SOUTH COUNTY
BIKE PATH CONNECTOR

Drawing Title:

GENERAL PLAN
AND
PROFILE No.9

Project No: 15180.03 Scale: AS NOTED
Drawn By:
Checked By:
Approved By:
Date: 03/21/2018

Drawing No:

C2.09

Sheet No: 20 Of 54



UNIVERSITY OF RHODE ISLAND
OFFICE OF CAPITAL PROJECTS
60 TOOTELL ROAD
KINGSTON, RHODE ISLAND
TEL: 401-874-2725
AP 23-1, LOT 1 & AP 30, LOTS 24 & 27

DAVID L. POTTER

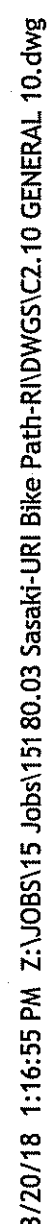
No. 8665

03.21.19

REGISTERED
PROFESSIONAL ENGINEER
(CIVIL)

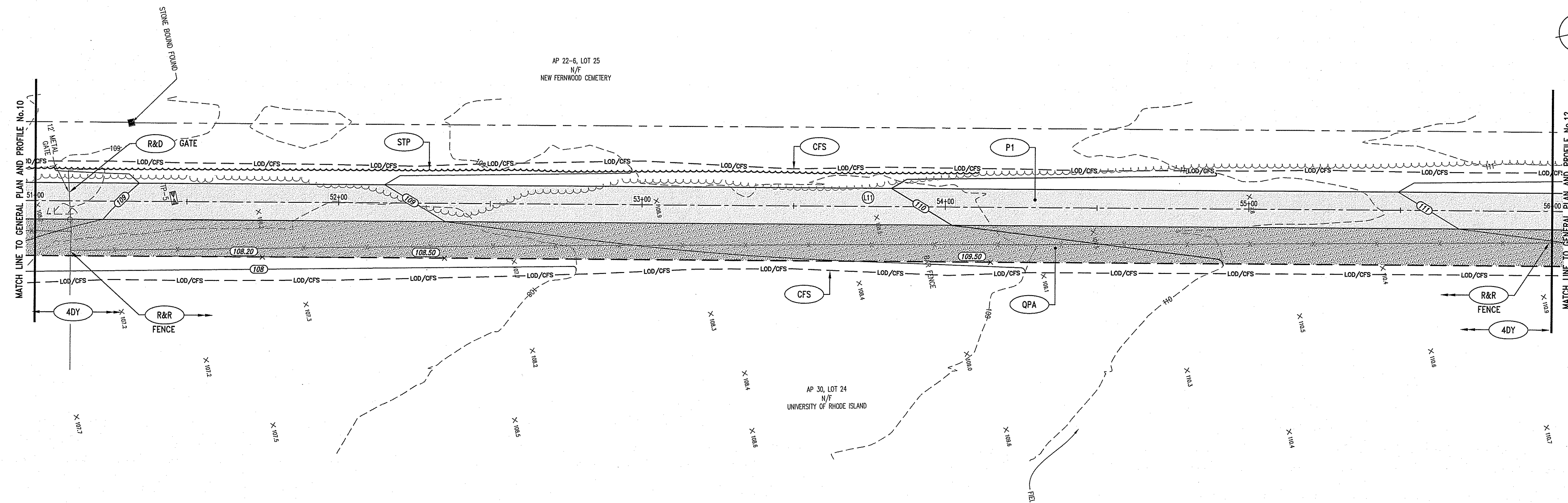
A map showing a winding road with 15 numbered segments. The road starts at the bottom left, goes up and right, then down and right, then up and right, and finally down and right. The segments are numbered 1 through 15. A compass rose is located in the bottom right corner, showing North (N) and South (S). The road is labeled 'ROAD 1' at the bottom left and 'ROAD 2' at the top right. A line labeled 'ROAD 1' is also shown in the middle of the road.

Drawing No: **C2.10**
Sheet No:

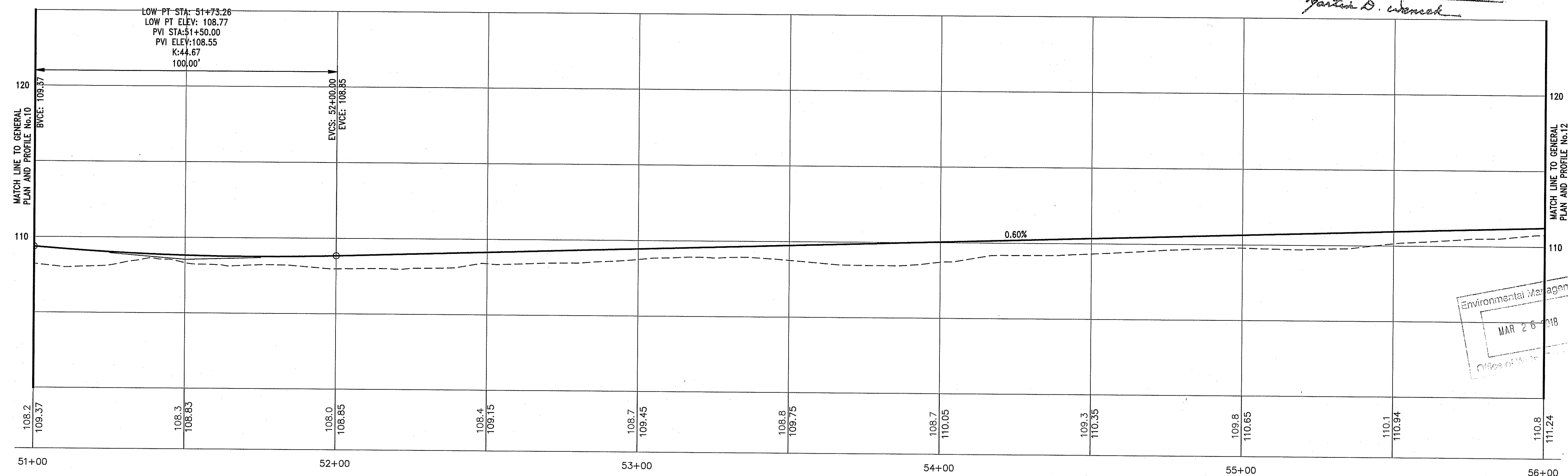


2/20/18 1:18:15 PM Z:\U085115 Jobs\15180.03 Sasaki-URI Bike Path-RIDWGS\2.11 GENERAL-11.dwg

BIKE PATH BASELINE ALIGNMENT DATA							
NUMBER	START STATION	RADIUS	LENGTH	LINE/CHORD DIRECTION	DELTA A	NORTHING	EASTING
L11	47+92.33		872.27'	N12° 04' 56"E		144578.6574	316314.0239

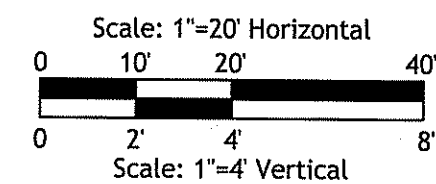
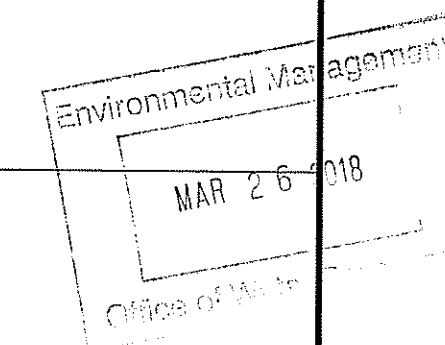


PLAN VIEW



PROFILE VIEW

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 08 2018 FILE # 18-0063
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Jonathan D. Wenzel



SASAKI

44 PLEASANT STREET WATERTOWN MA 02472 USA
P 617 926 3300 F 617 924 2748 W SASAKI.COM



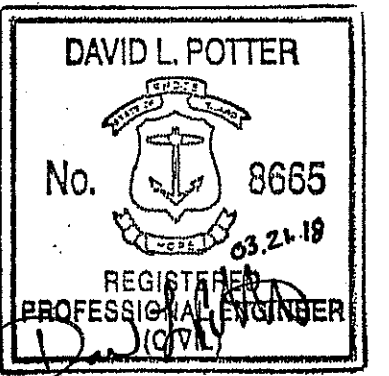
PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

OWNER/APPLICANT:

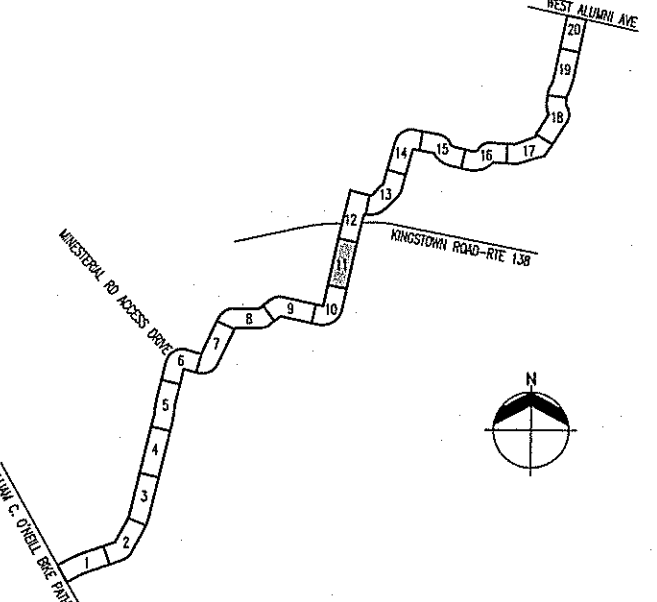
UNIVERSITY OF RHODE ISLAND
OFFICE OF CAPITAL PROJECTS
60 TOOTELL ROAD
KINGSTON, RHODE ISLAND
TEL: 401-874-2725
AP 23-1, LOT 1 & AP 30, LOTS 24 & 27

DWG ISSUE & REVISION HISTORY

Stamp



Key Plan



Project Title:

URI/SOUTH COUNTY
BIKE PATH CONNECTOR

Drawing Title:

GENERAL PLAN
AND
PROFILE No. 11

Project No: 15180.03 Scale: AS NOTED

Drawn By:

Checked By:

Approved By:

Date: 03/21/2018

Drawing No:

C2.11

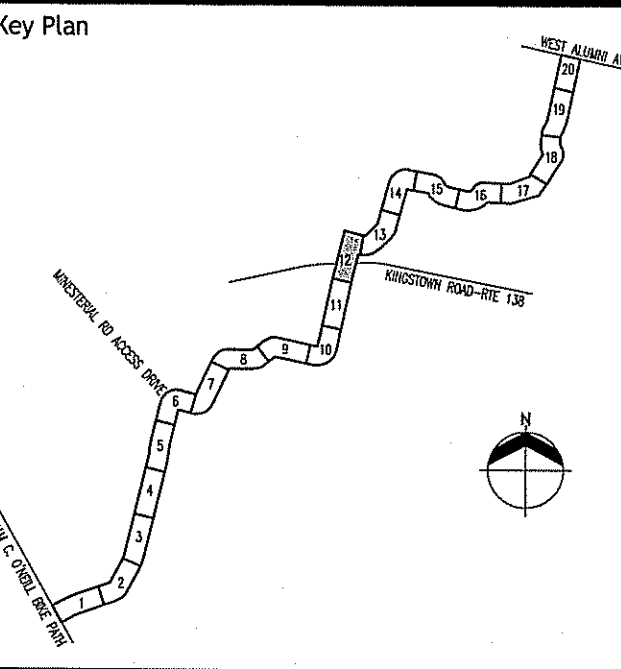
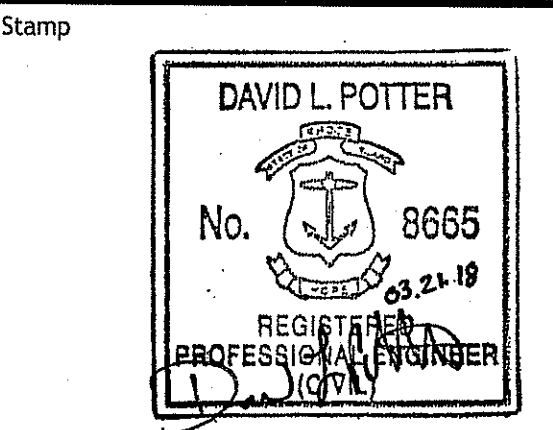
Sheet No: 22 OF 54



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

OWNER/APPLICANT:
UNIVERSITY OF RHODE ISLAND
OFFICE OF CAPITAL PROJECTS
60 TOOTELL ROAD
KINGSTON, RHODE ISLAND
TEL: 401-874-2725
AP 23-1, LOT 1 & AP 30, LOTS 24 & 27

DWG ISSUE & REVISION HISTORY

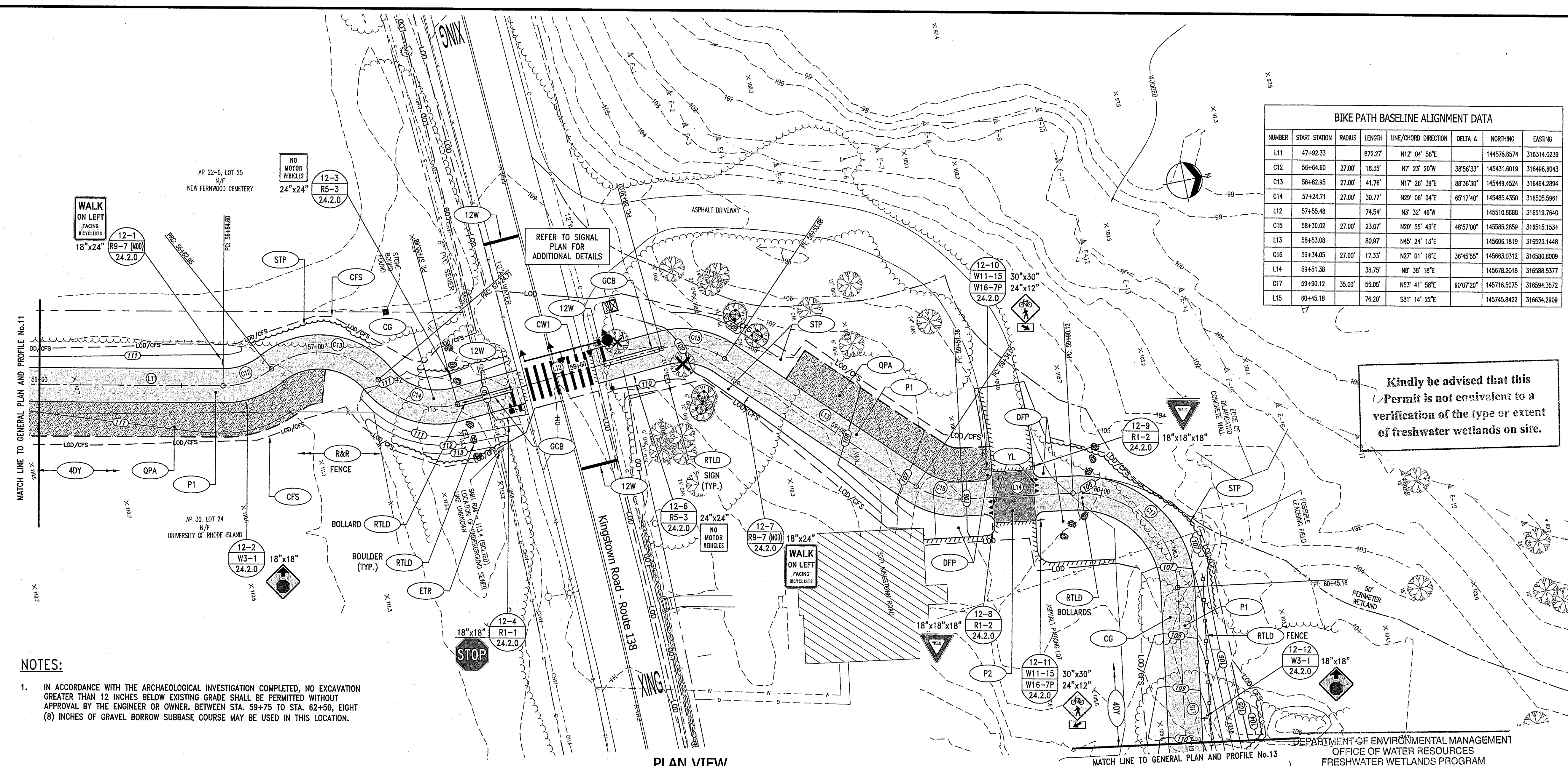


Project Title:
**URI/SOUTH COUNTY
BIKE PATH CONNECTOR**

Drawing Title:
**GENERAL PLAN
AND
PROFILE No. 12**

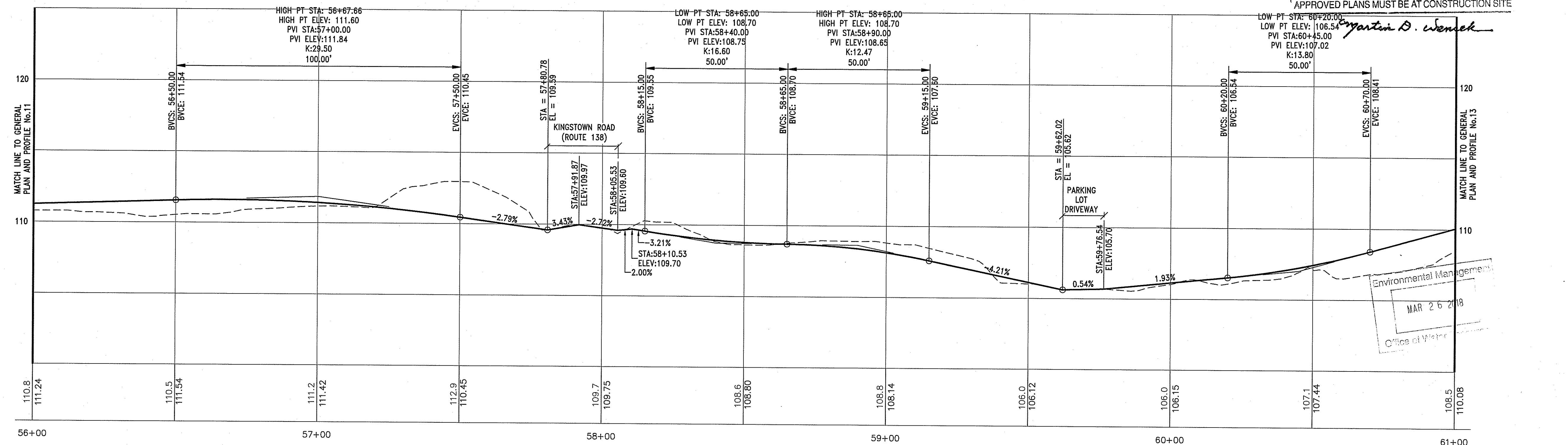
Project No: 15180.03 Scale: AS NOTED
Drawn By:
Checked By:
Approved By:
Date: 03/21/2018

Drawing No: **C2.12**
Sheet No: 23 Of 54



NOTES:

- IN ACCORDANCE WITH THE ARCHAEOLOGICAL INVESTIGATION COMPLETED, NO EXCAVATION GREATER THAN 12 INCHES BELOW EXISTING GRADE SHALL BE PERMITTED WITHOUT APPROVAL BY THE ENGINEER OR OWNER. BETWEEN STA. 59+75 TO STA. 62+50, EIGHT (8) INCHES OF GRAVEL BORROW SUBBASE COURSE MAY BE USED IN THIS LOCATION.



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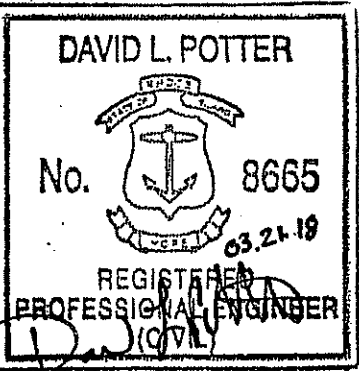
PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

OWNER/APPLICANT:

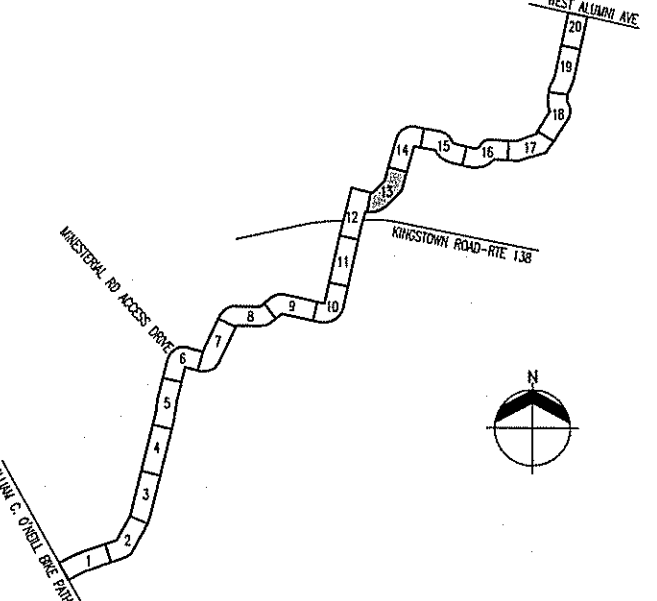
UNIVERSITY OF RHODE ISLAND
OFFICE OF CAPITAL PROJECTS
60 TOOTELL ROAD
KINGSTON, RHODE ISLAND
TEL: 401-874-2725
AP 23-1, LOT 1 & AP 30, LOTS 24 & 27

DWG ISSUE & REVISION HISTORY

Stamp



Key Plan



Project Title:

URI/SOUTH COUNTY
BIKE PATH CONNECTOR

Drawing Title:

GENERAL PLAN
AND
PROFILE No. 13

Project No: 15180.03 Scale: AS NOTED

Drawn By:

Checked By:

Approved By:

Date: 03/21/2018

Drawing No:

C2.13

Sheet No: 24 OF 54

BIKE PATH BASELINE ALIGNMENT DATA						
NUMBER	START STATION	RADIUS	LENGTH	LINE/CHORD DIRECTION	DELTA &	NORTHING
L15	60+45.18		78.20'	S81° 14' 22"E		145745.8422
C18	61+21.37	100.00'	93.13'	N72° 04' 56"E	53° 21' 25"	145734.2368
L16	62+14.50		184.95'	N45° 24' 13"E		145761.8530
C19	63+99.45	75.00'	39.27'	N30° 24' 13"E	30° 00' 00"	145891.7198
L17	64+38.72		461.21'	N15° 24' 13"E		145925.2038

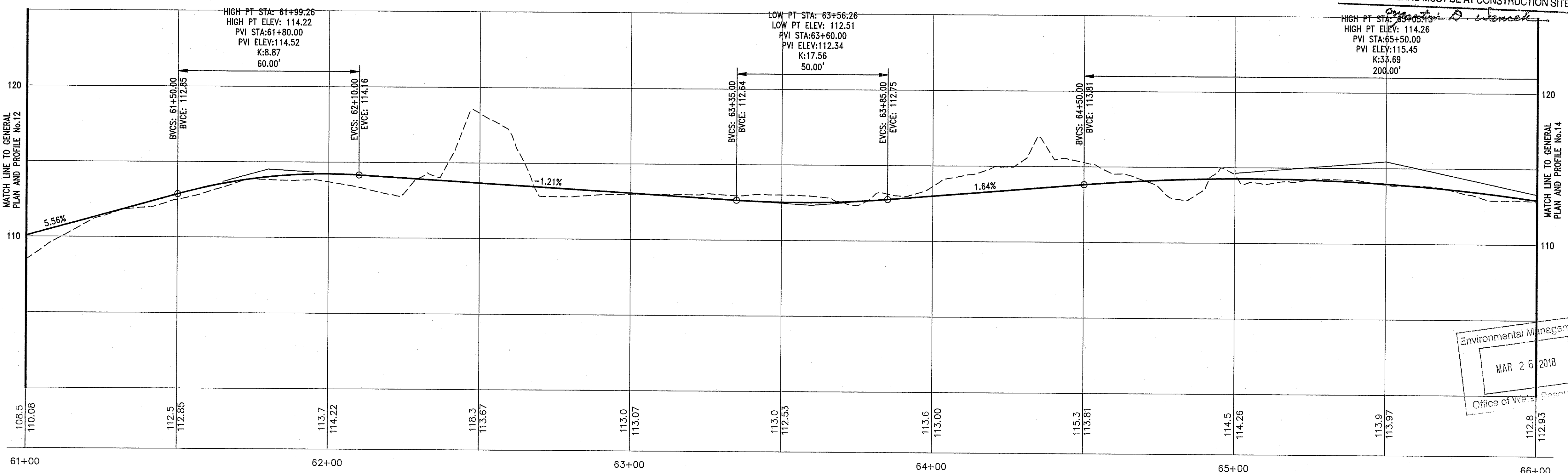
NOTES:

- IN ACCORDANCE WITH THE ARCHAEOLOGICAL INVESTIGATION COMPLETED, NO EXCAVATION GREATER THAN 12 INCHES BELOW EXISTING GRADE SHALL BE PERMITTED WITHOUT APPROVAL BY THE ENGINEER OR OWNER. BETWEEN STA. 59+75 TO STA. 62+50, EIGHT (8) INCHES OF GRAVEL BORROW SUBBASE COURSE MAY BE USED IN THIS LOCATION.

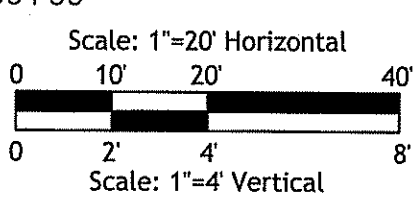
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 08 2018 FILE # 18-023
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

High PT STA: 61+99.26
HIGH PT ELEV: 114.22
PVI STA: 61+80.00
PVI ELEV: 114.52
K: 8.87
60.00'

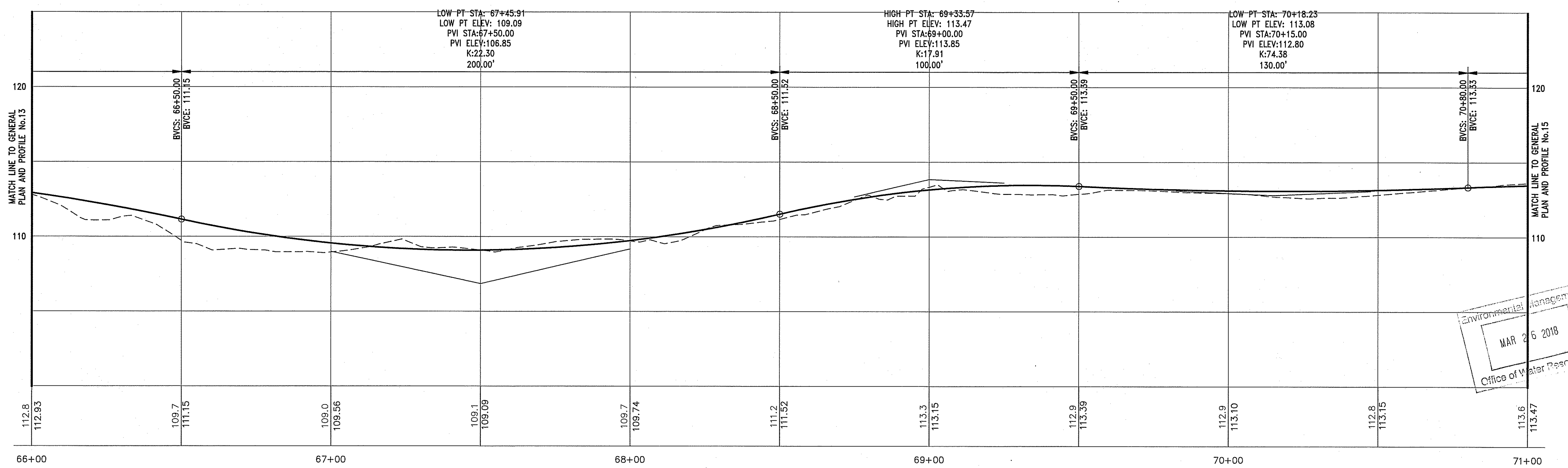
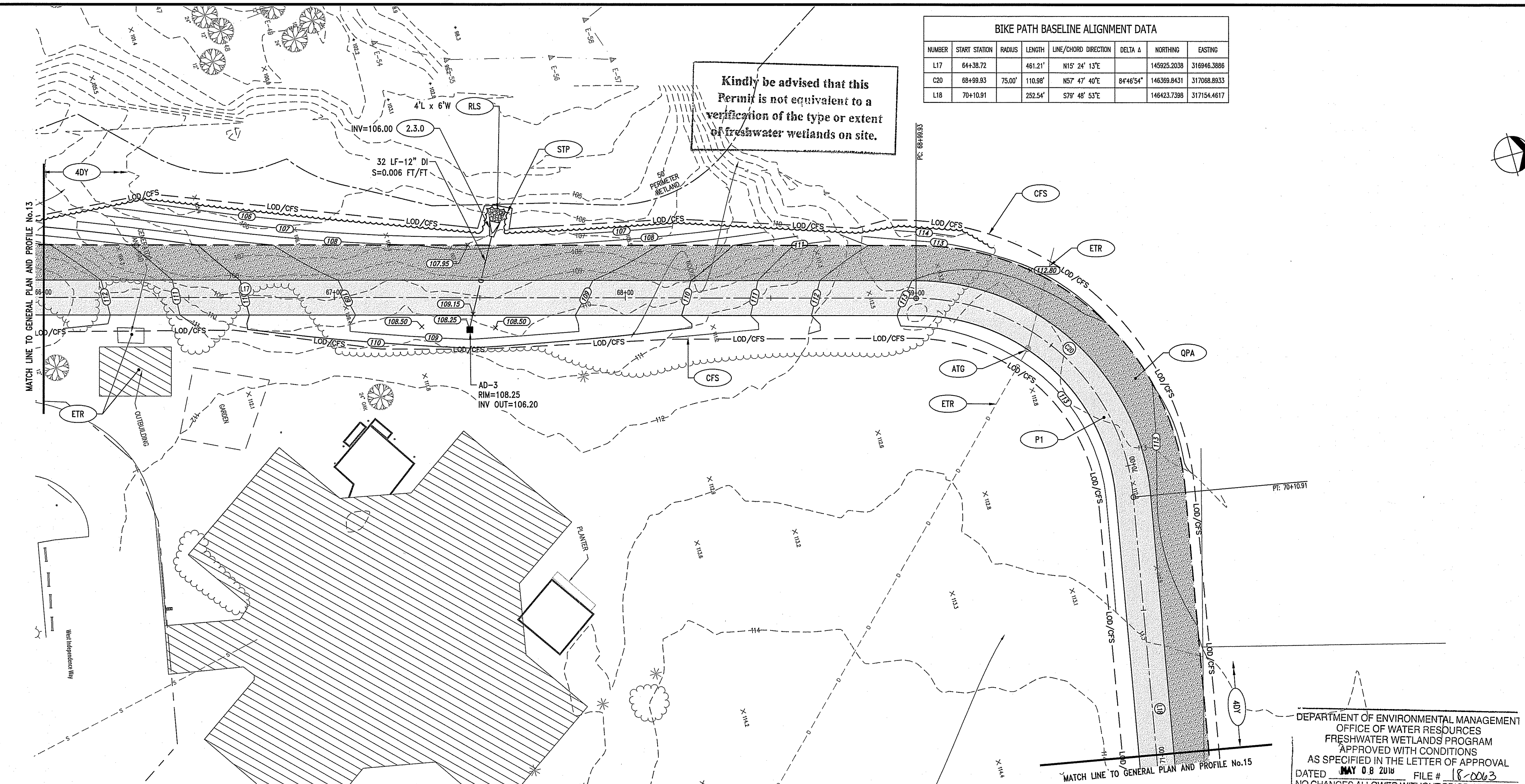
PLAN VIEW



PROFILE VIEW



3/20/18 1:22:16 PM Z:\08515 Jobs\15180.03 Sasaki-URI Bike Path-RIDWGS\C2.14 GENERAL 14.dwg



SASAKI

64 PLEASANT STREET WATERTOWN MA 02472 USA
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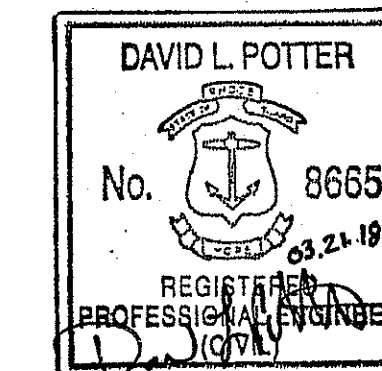
PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

OWNER/APPLICANT:

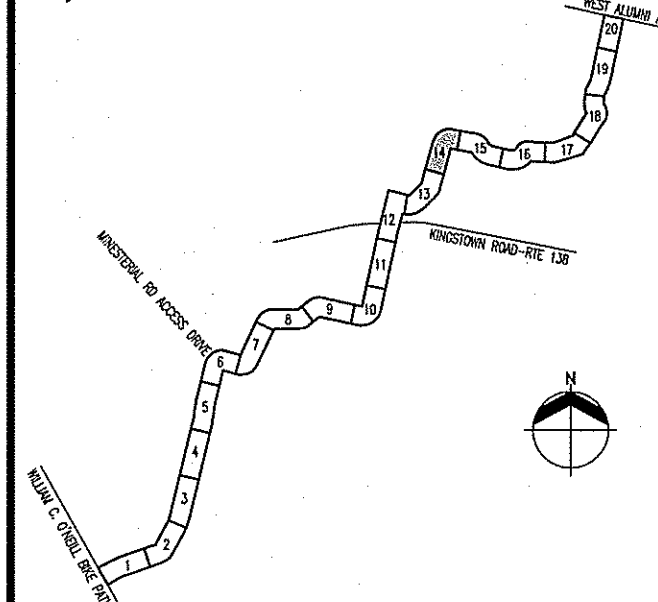
UNIVERSITY OF RHODE ISLAND
OFFICE OF CAPITAL PROJECTS
80 TOOTELL ROAD
KINGSTON, RHODE ISLAND
TEL: 401-874-2725
AP 23-1, LOT 1 & AP 30, LOTS 24 & 27

DWG ISSUE & REVISION HISTORY

Stamp



Key Plan



Project Title:

URI/SOUTH COUNTY
BIKE PATH CONNECTOR

Drawing Title:

GENERAL PLAN
AND
PROFILE No.14

Project No: 15180.03 Scale: AS NOTED

Drawn By:

Checked By:

Approved By:

Date: 03/21/2018

Drawing No:

C2.14

Sheet No: 25 Of 54

SASAKI

64 PLEASANT STREET, WATERTOWN, MA 02472 USA
P 617 926 3800 F 617 924 2749 W SASAKI.COM

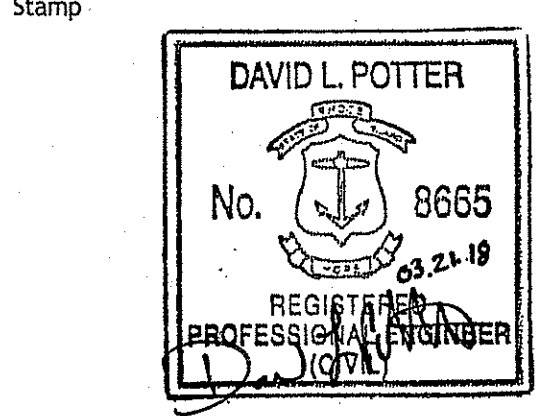


PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-394-1100

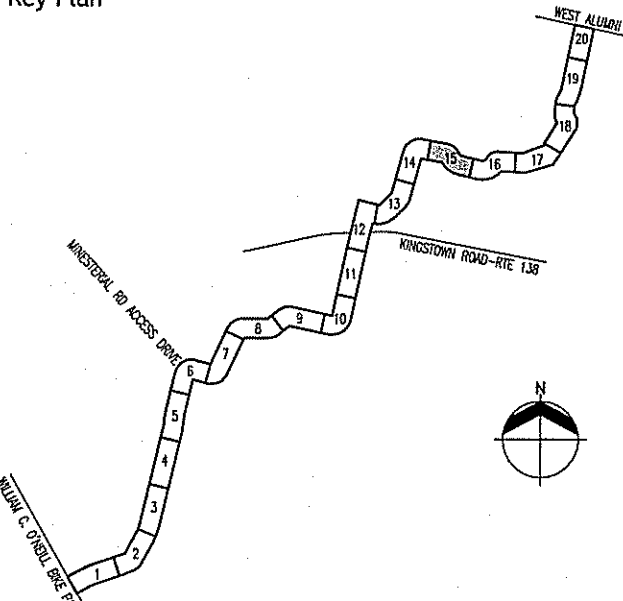
OWNER/APPLICANT:

UNIVERSITY OF RHODE ISLAND
OFFICE OF CAPITAL PROJECTS
60 TOOTELL ROAD
KINGSTON, RHODE ISLAND
TEL: 401-874-2725
AP 23-1, LOT 1 & AP 30, LOTS 24 & 27

DWG ISSUE & REVISION HISTORY



Key Plan



Project Title:

URI/SOUTH COUNTY
BIKE PATH CONNECTOR

Drawing Title:

GENERAL PLAN
AND
PROFILE No. 15

Project No: 15180.03 Scale: AS NOTED

Drawn By:

Checked By:

Approved By:

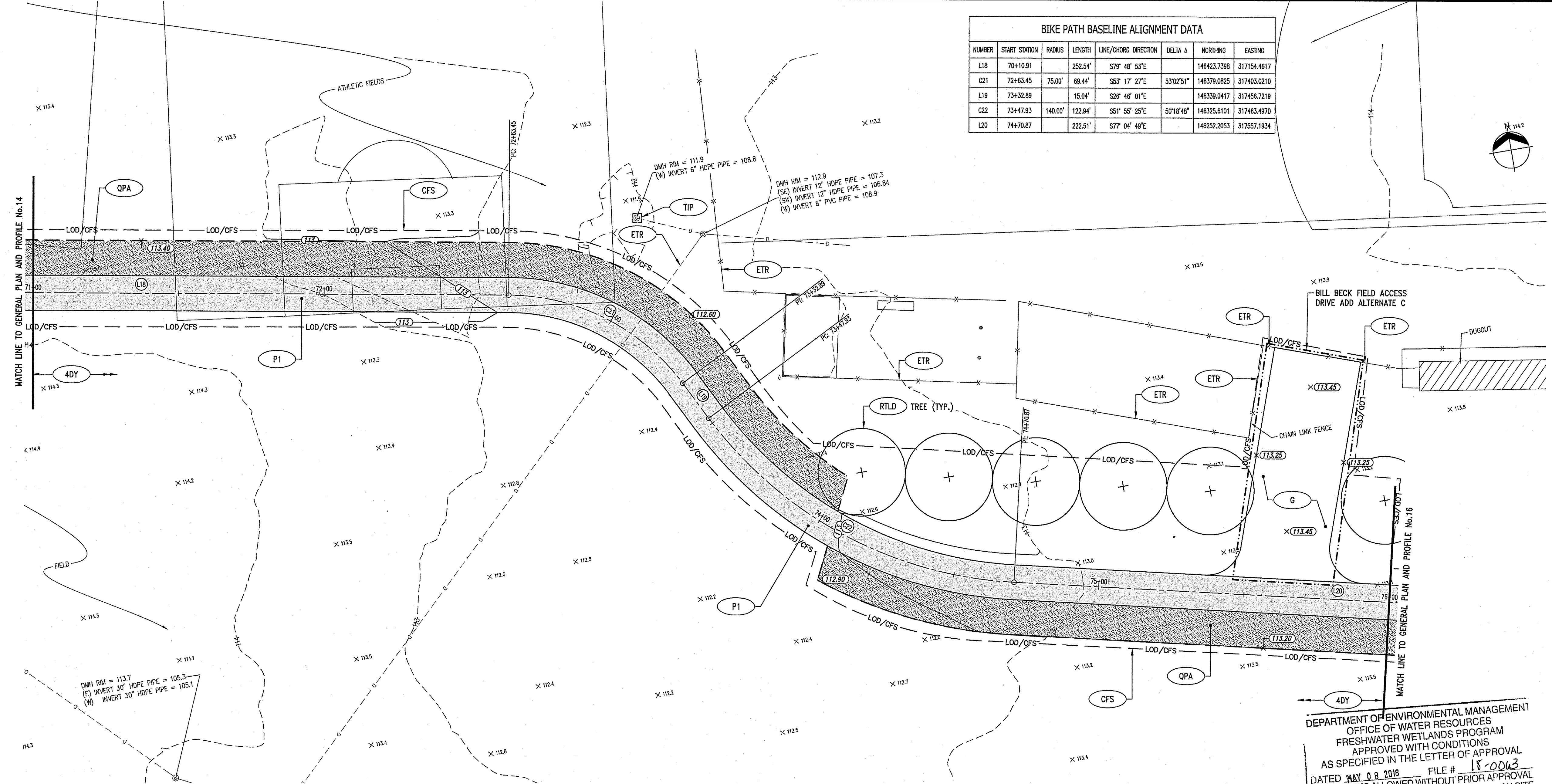
Date: 03/21/2018

Drawing No:

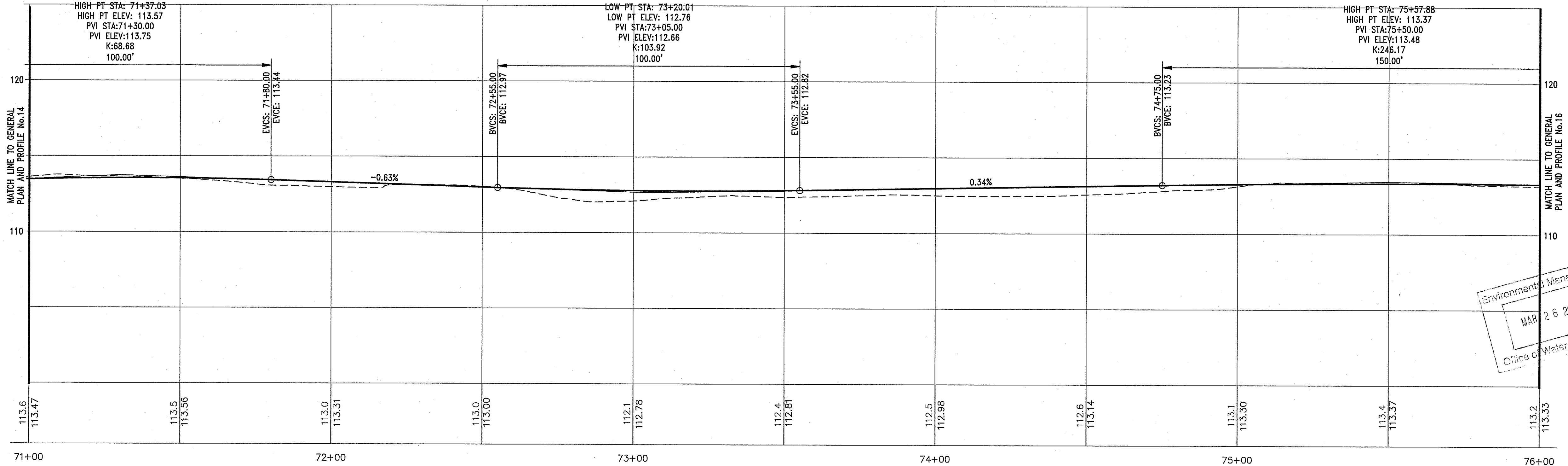
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Sheet No: 26 Of 54

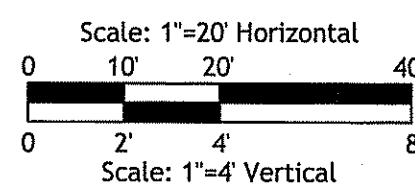
BIKE PATH BASELINE ALIGNMENT DATA							
NUMBER	START STATION	RADIUS	LENGTH	LINE/CHORD DIRECTION	DELTA A	NORthing	EASTING
L18	70+10.91		252.54'	S79° 48' 53"E		146423.7398	317154.4617
C21	72+63.45	75.00'	69.44'	S53° 17' 27"E	53°02'51"	146379.0825	317403.0210
L19	73+32.89		15.04'	S28° 46' 01"E		146339.0417	317456.7219
C22	73+47.93	140.00'	122.94'	S51° 55' 25"E	50°18'48"	146325.6101	317463.4970
L20	74+70.87		222.51'	S77° 04' 49"E		146252.2053	317557.1934



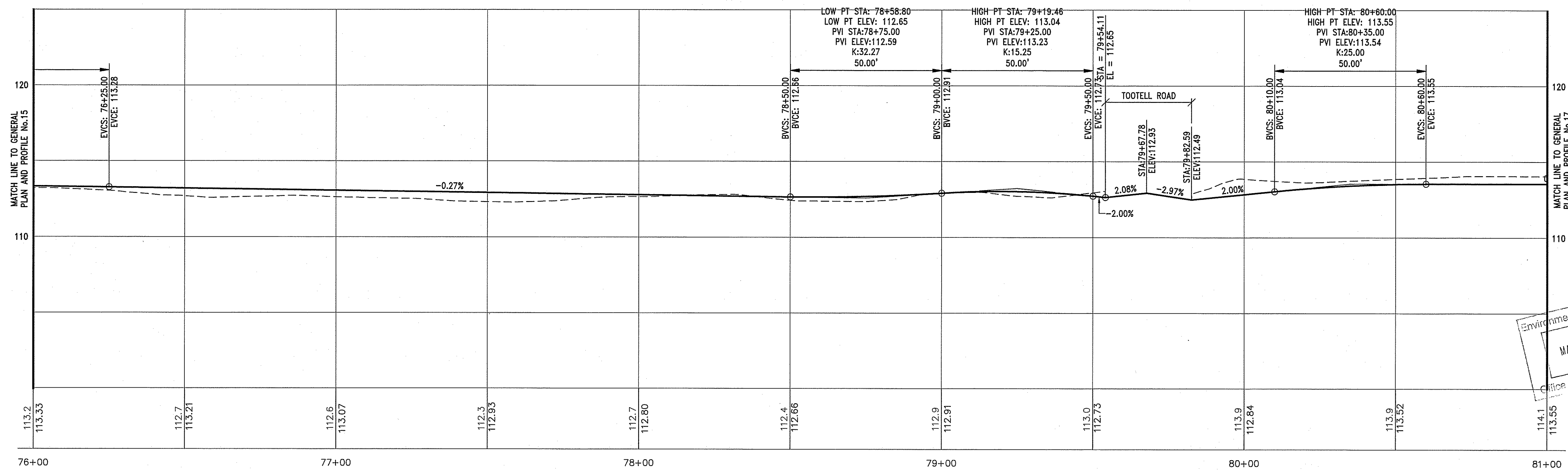
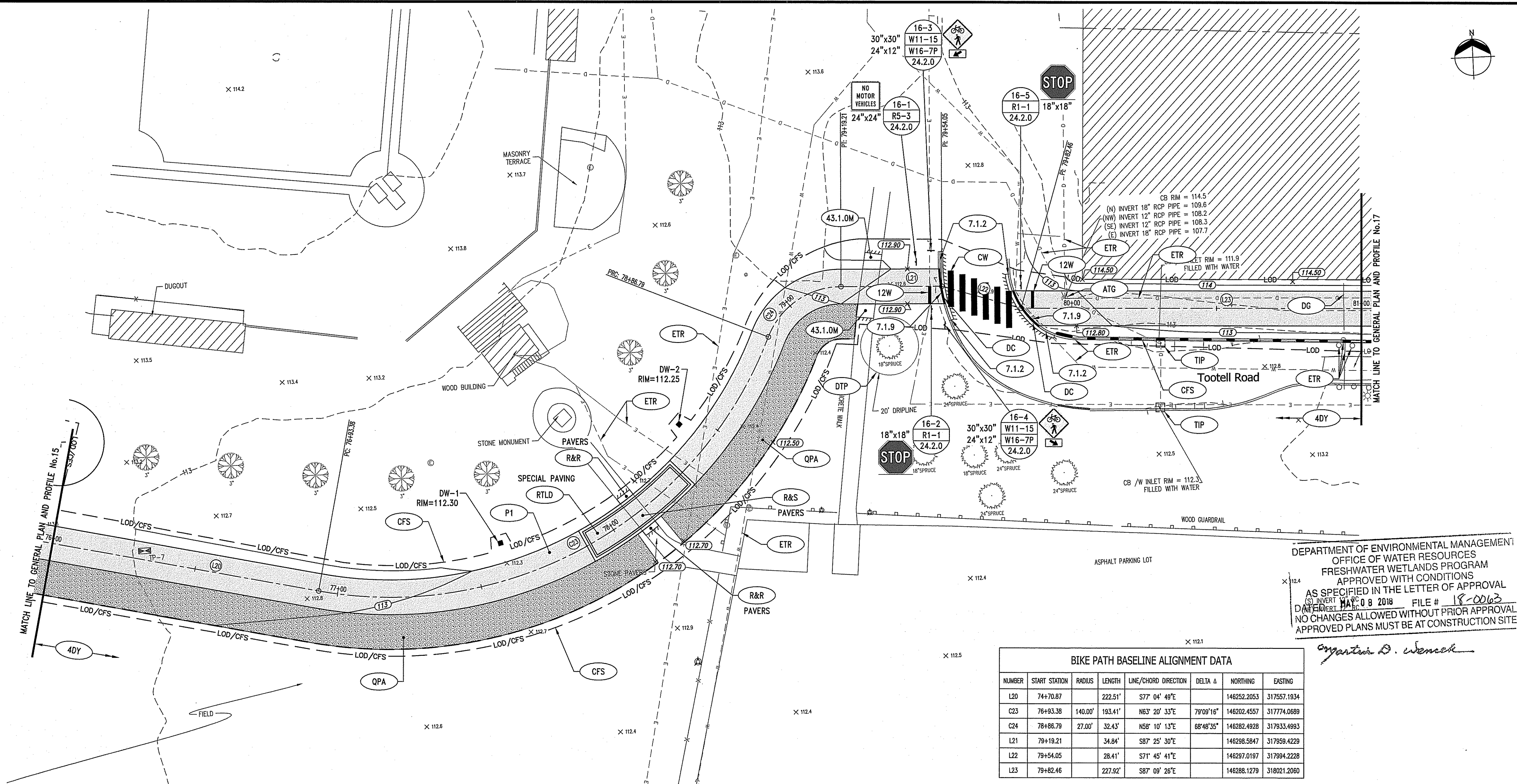
PLAN VIEW



PROFILE VIEW



3/20/18 1:24:56 PM Z:\OB515\Jobs\15180.03 Sasaki-URI Bike Path-RIDWGS\C2.16 GENERAL 16.dwg



SASAKI

64 PLEASANT STREET WATERTOWN MA 02472 USA
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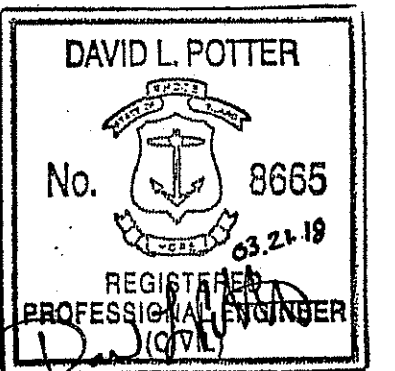
PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-1100

OWNER/APPLICANT:

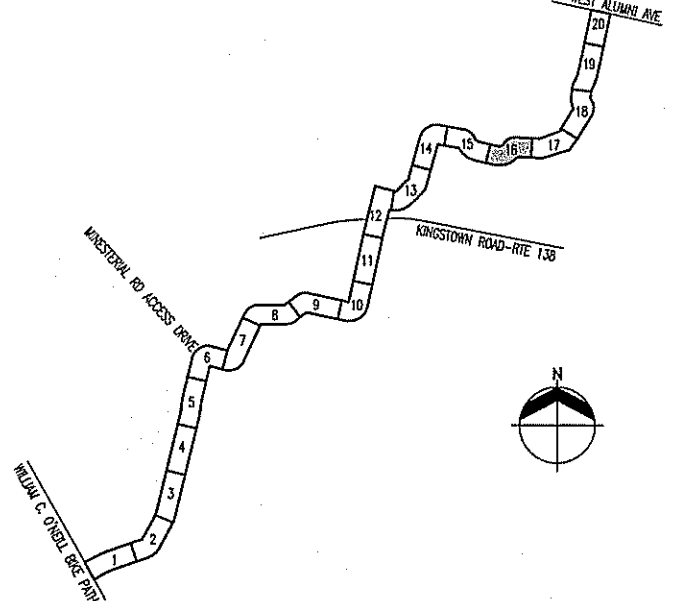
UNIVERSITY OF RHODE ISLAND
OFFICE OF CAPITAL PROJECTS
60 TOOTELL ROAD
KINGSTON, RHODE ISLAND
TEL: 401-874-2725
AP 23-1, LOT 1 & AP 30, LOTS 24 & 27

DWG ISSUE & REVISION HISTORY

Stamp



Key Plan



Project Title:

URI/SOUTH COUNTY
BIKE PATH CONNECTOR

Drawing Title:

GENERAL PLAN
AND
PROFILE No.16

Project No: 15180.03 Scale: AS NOTED

Drawn By:

Checked By:

Approved By:

Date: 03/21/2018

Drawing No:

C2.16

Sheet No: 27 Of 54

SASAKI

64 PLEASANT STREET WATERTOWN MA 02472 USA
P 017 926 8800 F 017 924 2748 W SASAKI.COM

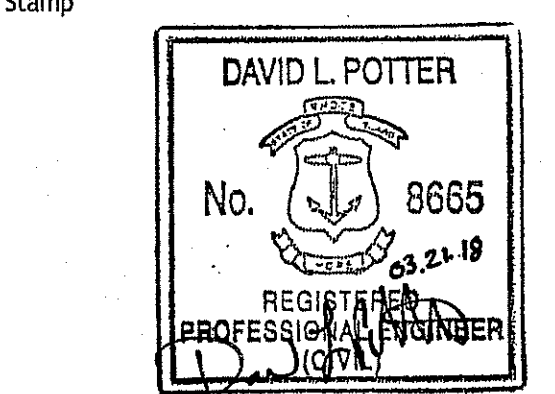


PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

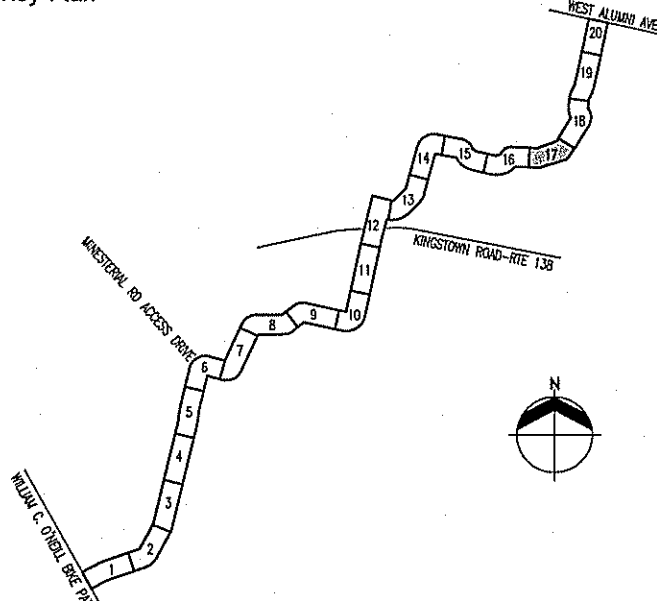
OWNER/APPLICANT:

UNIVERSITY OF RHODE ISLAND
OFFICE OF CAPITAL PROJECTS
60 TOOTELL ROAD
KINGSTON, RHODE ISLAND
TEL: 401-874-2725
AP 23-1, LOT 1 & AP 30, LOTS 24 & 27

DWG ISSUE & REVISION HISTORY



Key Plan



Project Title:

URI/SOUTH COUNTY
BIKE PATH CONNECTOR

Drawing Title:

GENERAL PLAN
AND
PROFILE No. 17

Project No: 15180.03 Scale: AS NOTED

Drawn By:

Checked By:

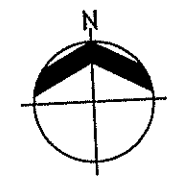
Approved By:

Date: 03/21/2018

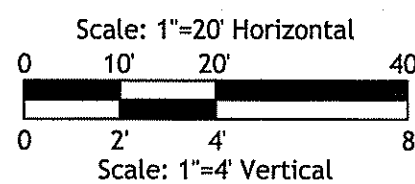
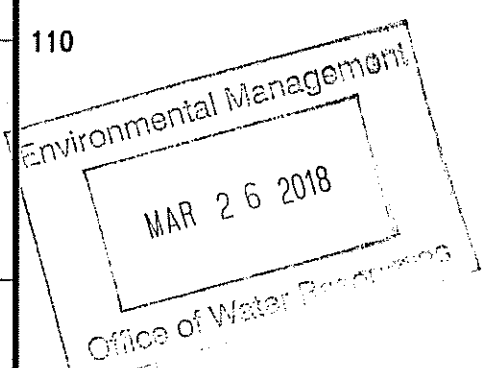
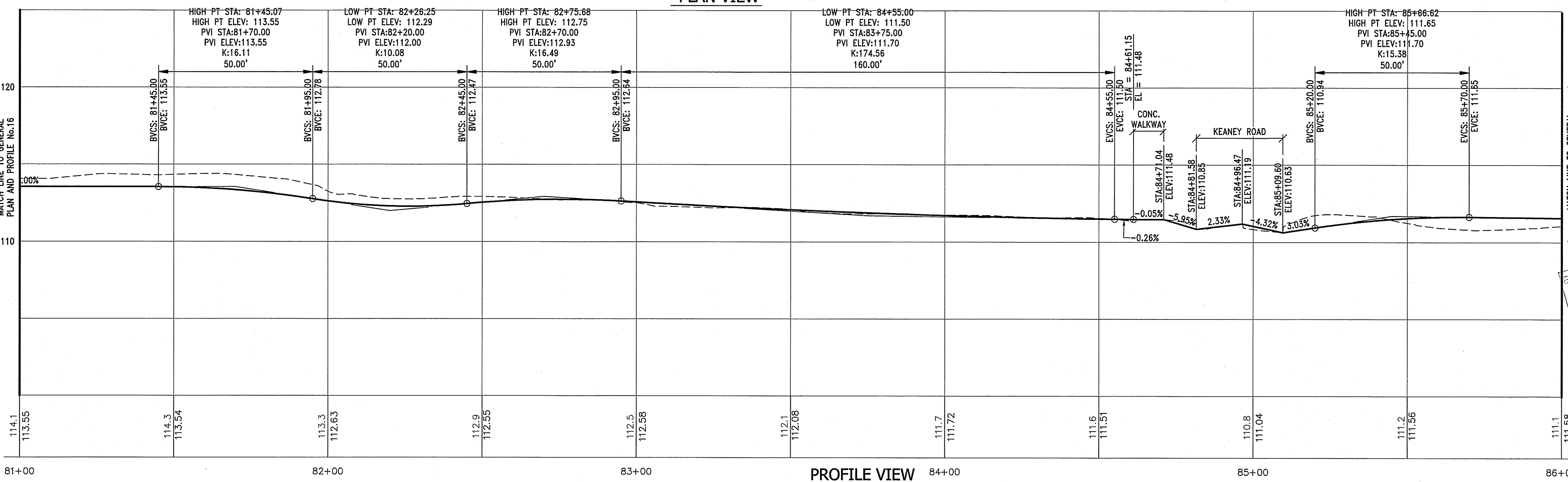
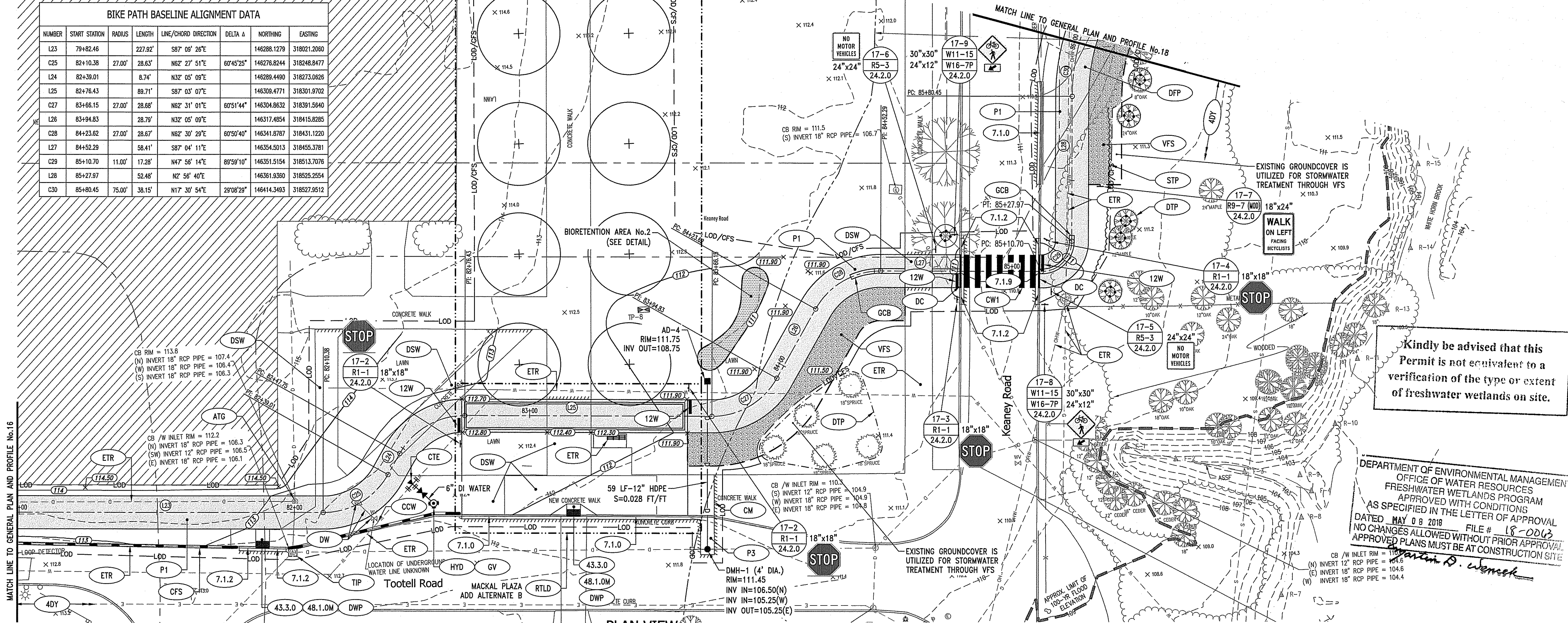
Drawing No:

C2.17

Sheet No: 28 Of 54

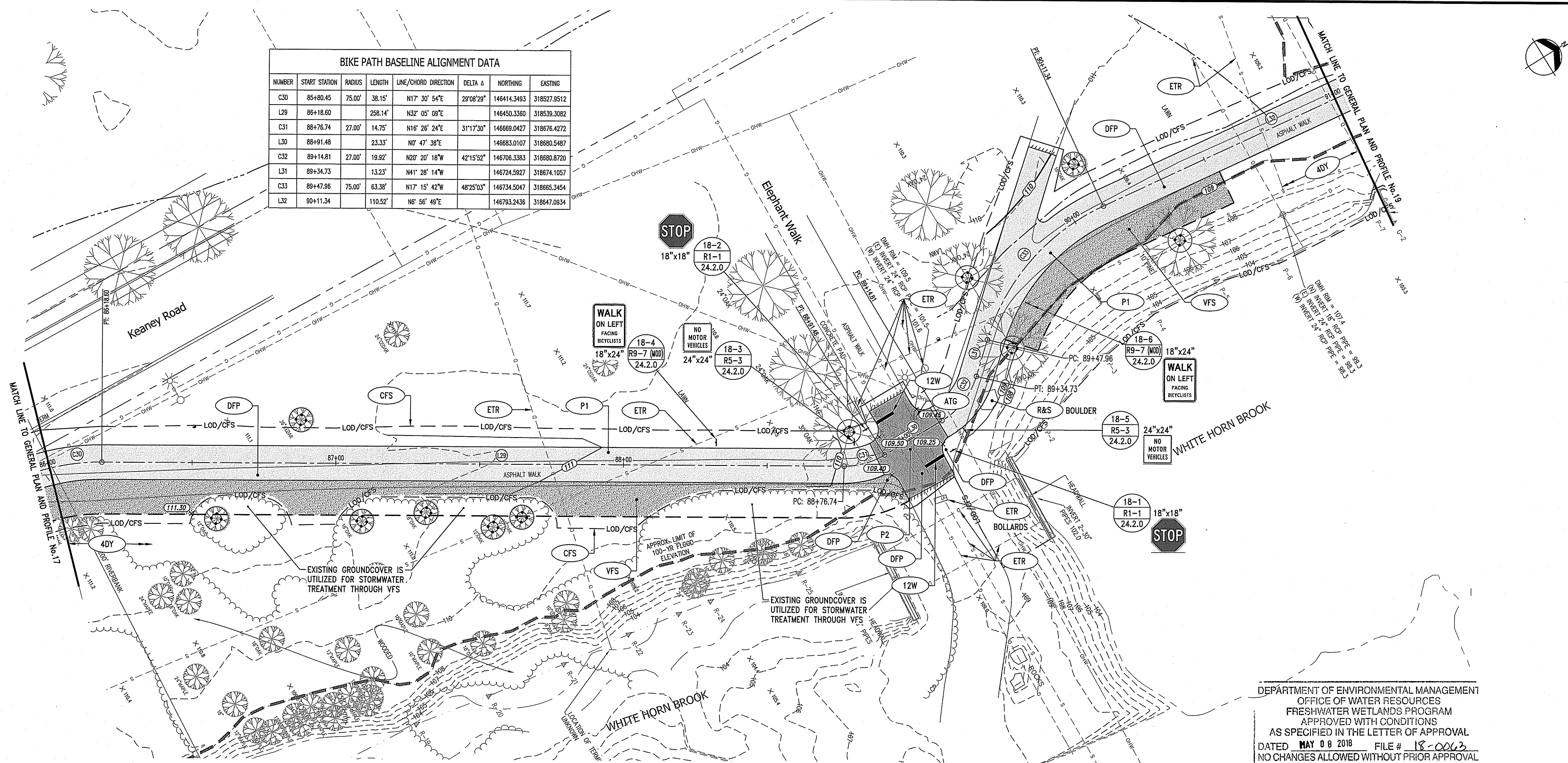


BIKE PATH BASELINE ALIGNMENT DATA							
NUMBER	START STATION	RADIUS	LENGTH	LINE/CHORD DIRECTION	DELTA	NORTHING	EASTING
L23	79+82.46		227.92'	S87° 08' 26"E		146288.1279	318021.2060
C25	82+10.38	27.00'	28.63'	N62° 27' 51"E	60°45'25"	146278.8244	318248.8477
L24	82+39.01		8.74'	N32° 05' 08"E		146289.4490	318273.0626
L25	82+76.43		89.71'	S87° 03' 07"E		146309.4771	318301.9702
C27	83+66.15	27.00'	28.68'	N62° 31' 01"E	60°51'44"	146304.8632	318391.5640
L26	83+94.83		28.79'	N32° 05' 08"E		146317.4854	318415.8285
C28	84+23.62	27.00'	28.67'	N62° 30' 29"E	60°50'40"	146341.8787	318431.1220
L27	84+52.29		58.41'	S87° 04' 11"E		146354.5013	318455.3781
C29	85+10.70	11.00'	17.28'	N47° 56' 14"E	89°59'10"	146351.5154	318513.7078
L28	85+27.97		52.48'	N2° 56' 40"E		146361.9380	318525.2554
C30	85+80.45	75.00'	38.15'	N17° 30' 54"E	29°08'29"	146414.3483	318527.9512



3/21/18 8:08:45 AM Z:\05B15 Jobs\15180.03 Sasaki-URI Bike Path-RIDWGS\2.17 GENERAL 17.dwg

BIKE PATH BASELINE ALIGNMENT DATA						
NUMBER	START STATION	RADIUS	LENGTH	LINE/CHORD DIRECTION	DELTA A	NORTHING
C30	85+80.45	75.00'	38.15'	N17° 30' 54"E	29°08'29"	146414.3493
L29	86+18.60		258.14'	N32° 05' 09"E		146450.3360
C31	88+76.74	27.00'	14.75'	N16° 28' 24"E	31°17'30"	146689.0427
L30	88+91.48		23.33'	N07° 47' 38"E		146683.0107
C32	89+14.81	27.00'	19.92'	N02° 20' 18"W	42°15'52"	146706.3383
L31	89+34.73		13.23'	N41° 28' 14"W		146724.5927
C33	89+47.96	75.00'	63.38'	N17° 15' 42"W	48°25'03"	146734.5047
L32	90+11.34		110.52'	N05° 56' 49"E		146793.2436



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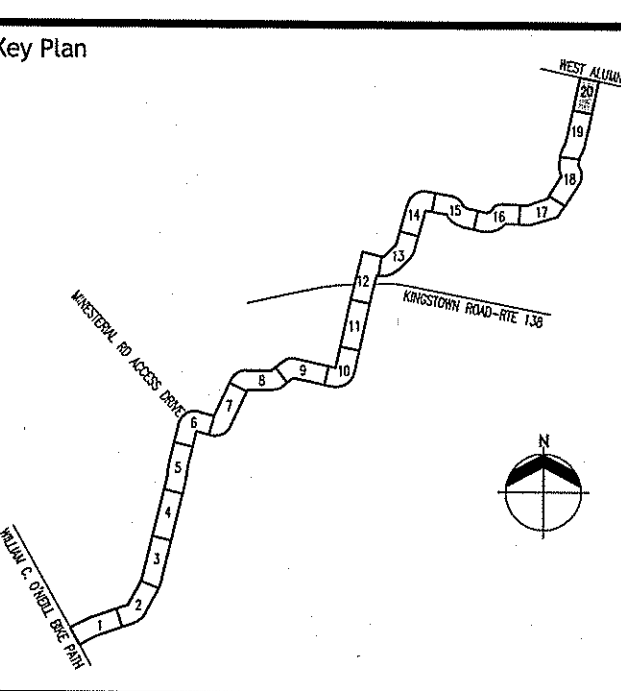
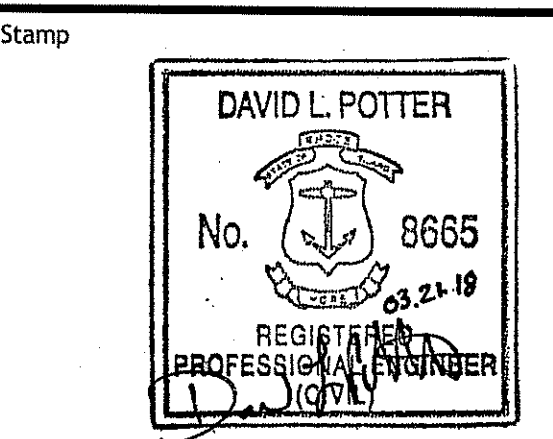
44 PLEASANT STREET WATERTOWN MA 02472 USA
P 617 920 8300 F 617 924 2748 W SASAKI.COM



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ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

OWNER/APPLICANT:
UNIVERSITY OF RHODE ISLAND
OFFICE OF CAPITAL PROJECTS
60 TOOTELL ROAD
KINGSTON, RHODE ISLAND
TEL: 401-874-2725
AP 23-1, LOT 1 & AP 30, LOTS 24 & 27

DWG ISSUE & REVISION HISTORY

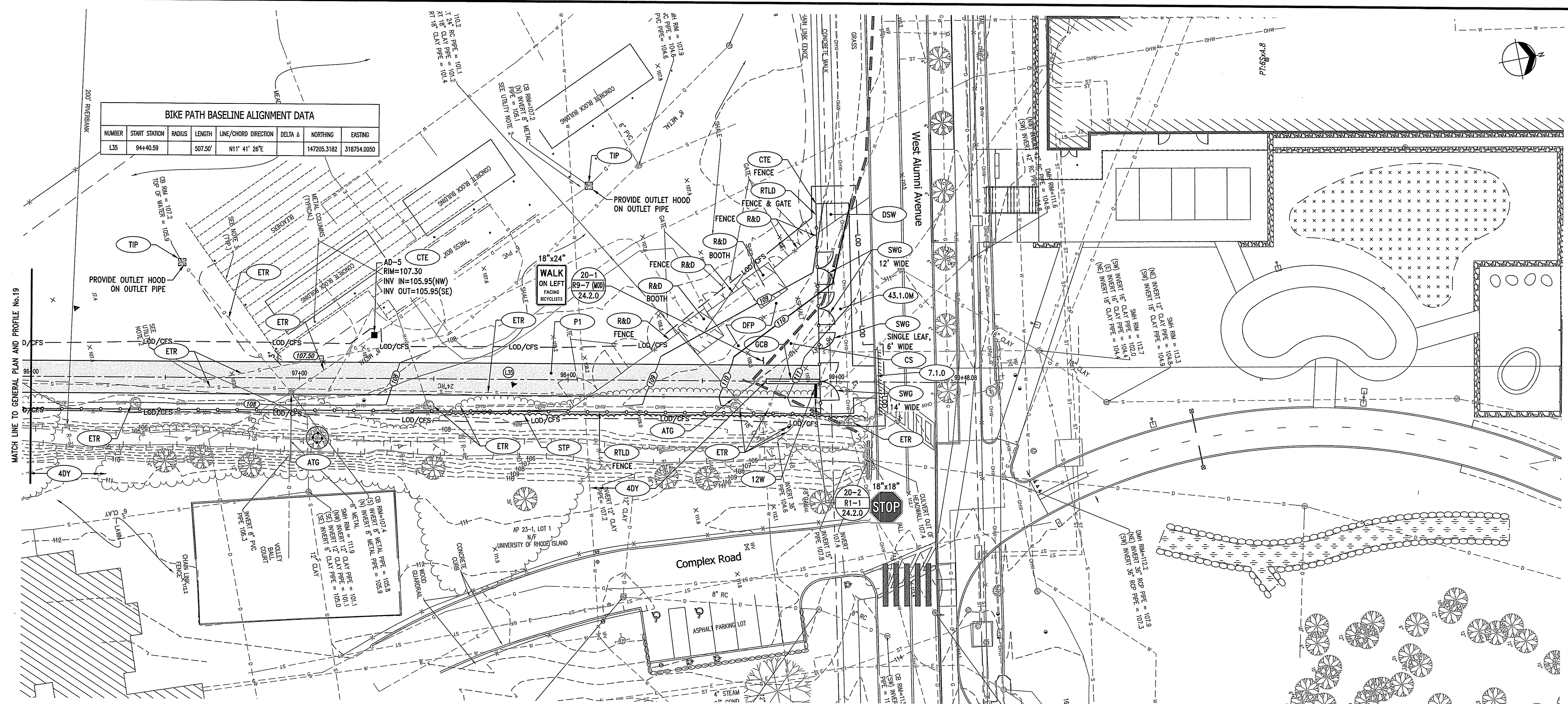


Project Title:
**URI/SOUTH COUNTY
BIKE PATH CONNECTOR**

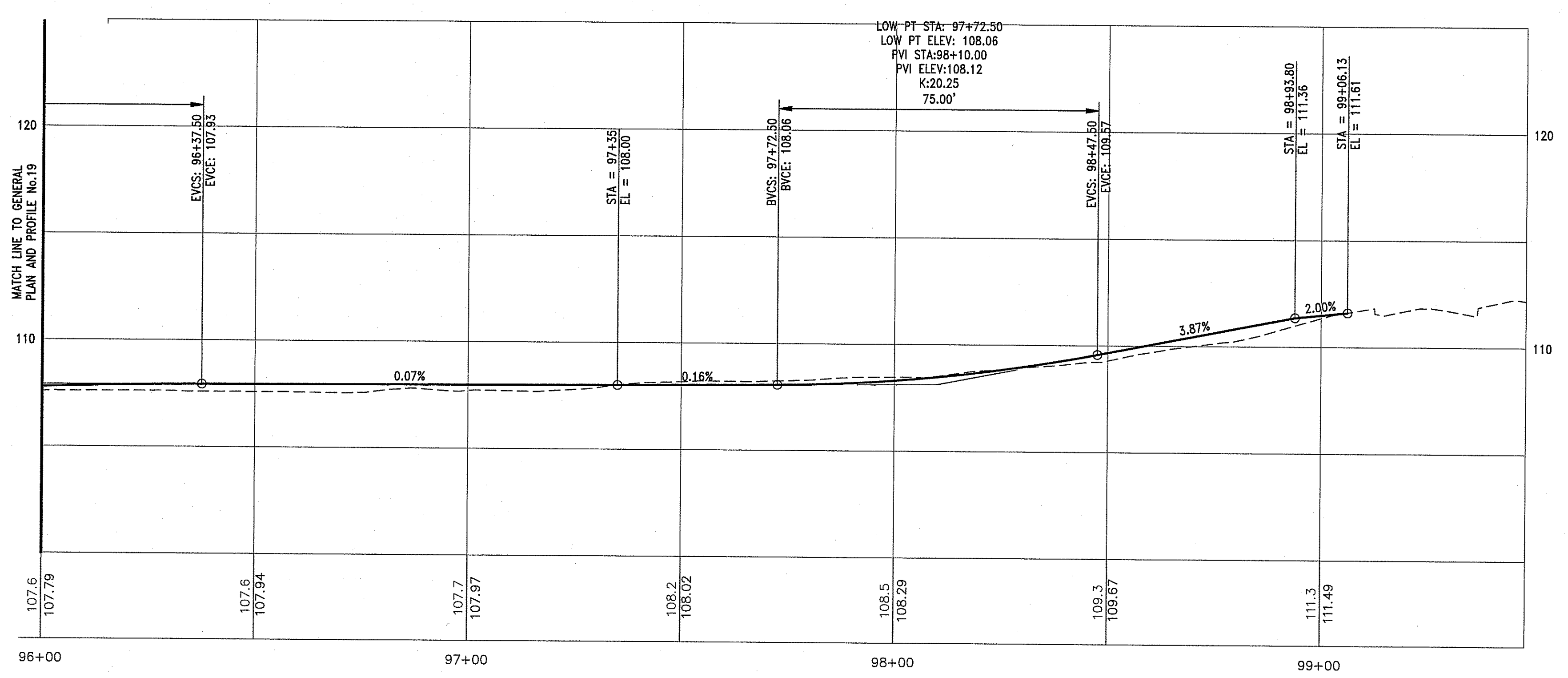
Drawing Title:
**GENERAL PLAN
AND
PROFILE No.20**

Project No: 15180.03 Scale: AS NOTED
Drawn By:
Checked By:
Approved By:
Date: 03/21/2018

Drawing No: **C2.20**
Sheet No: 31 OF 54

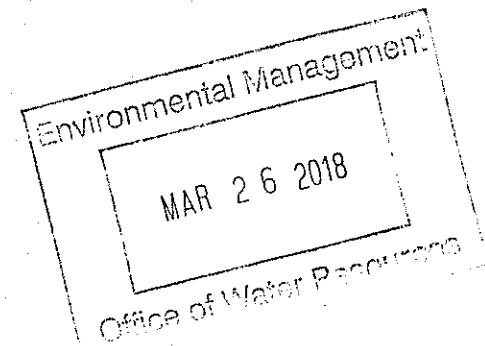


PLAN VIEW



PROFILE VIEW

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 08 2018 FILE # 18-0063
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Signature: D. Weneck



Scale: 1"=20' Horizontal
0 10' 20' 40'
Scale: 1"=4' Vertical
0 2' 4' 8'

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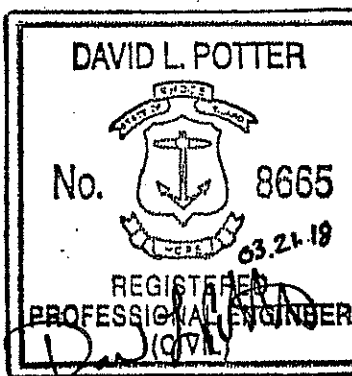
PARE CORPORATION
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AP 23-1, LOT 1 & AP 30, LOTS 24 & 27

DWG ISSUE & REVISION HISTORY

Stamp



Key Plan

Project Title:

URI/SOUTH COUNTY
BIKE PATH CONNECTOR

Drawing Title:

DETAILS No. 1

Project No: 15180.03 Scale: AS NOTED

Drawn By:

Checked By:

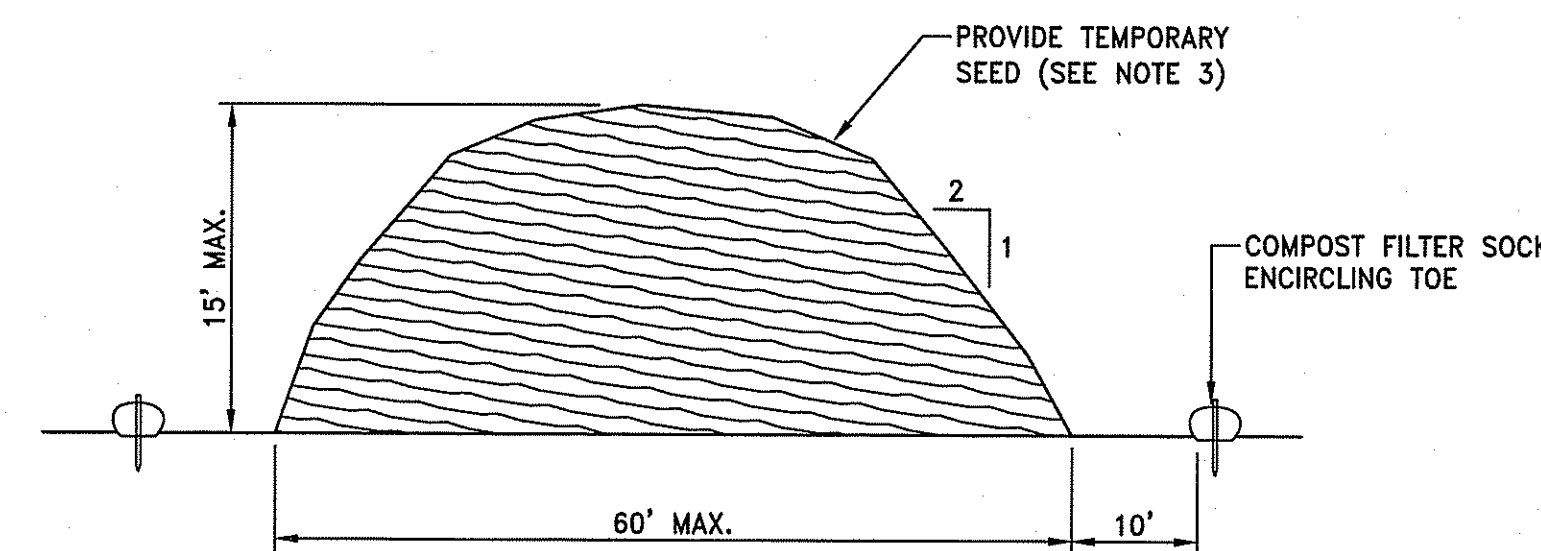
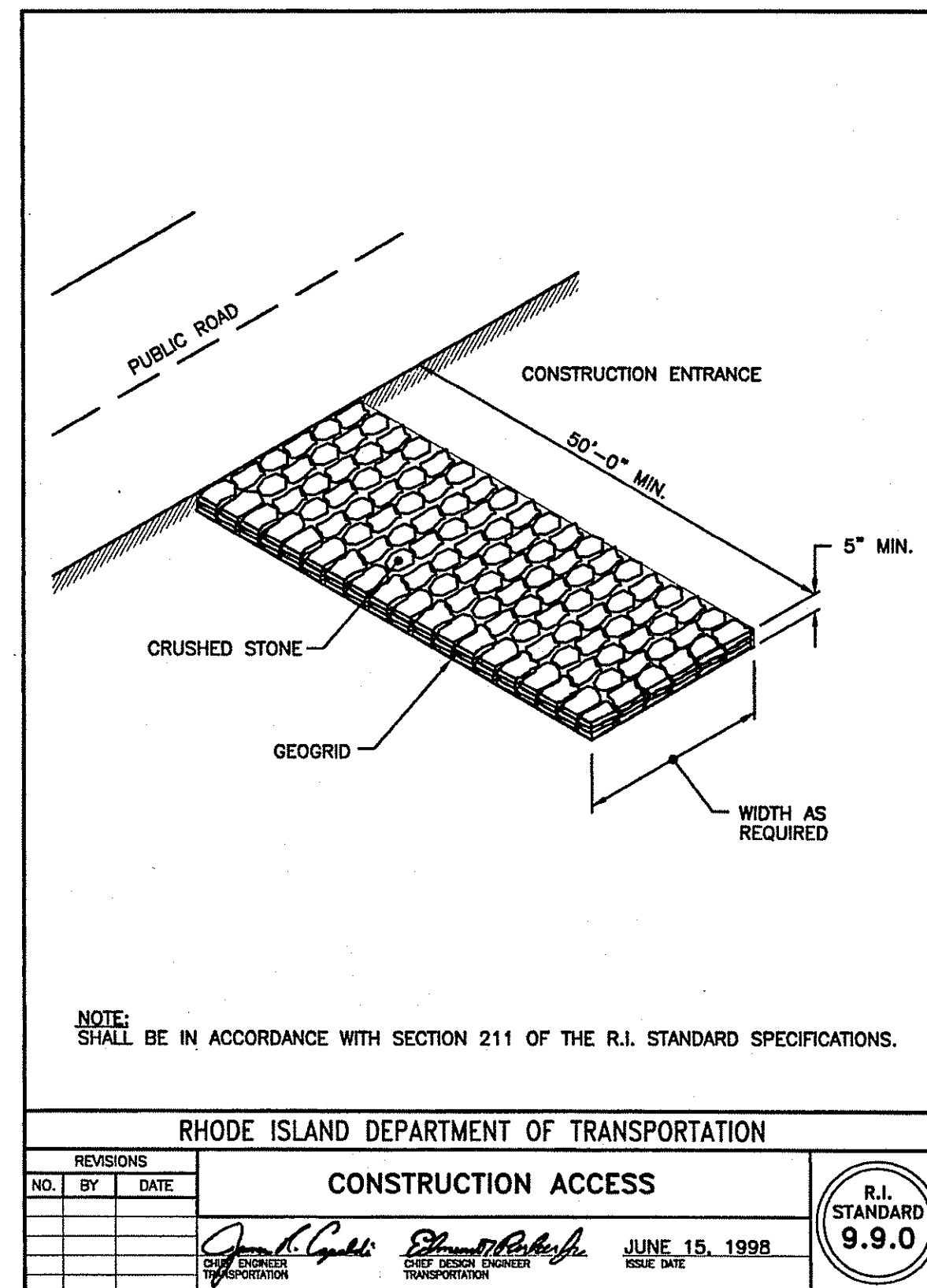
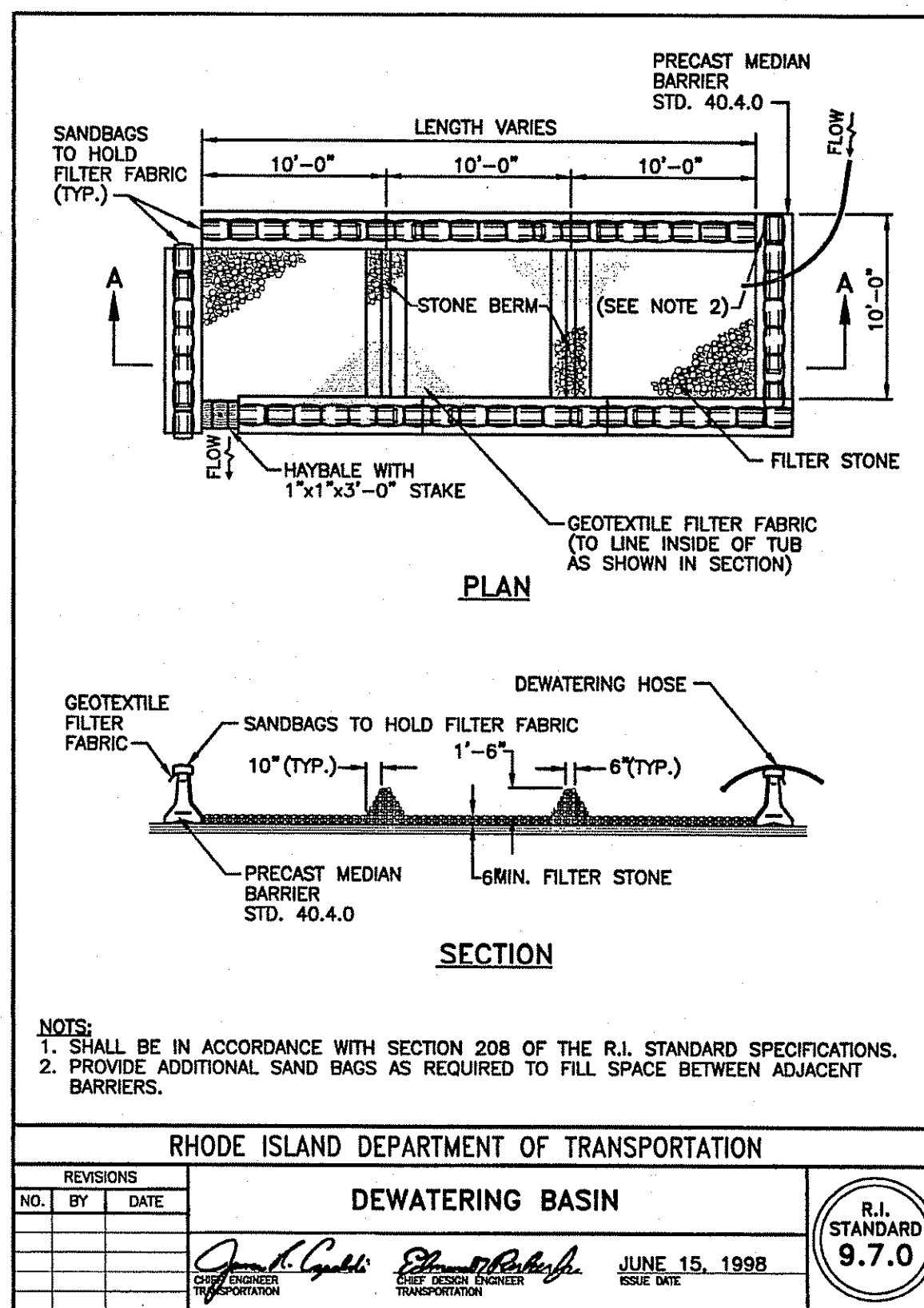
Approved By:

Date: 03/21/2018

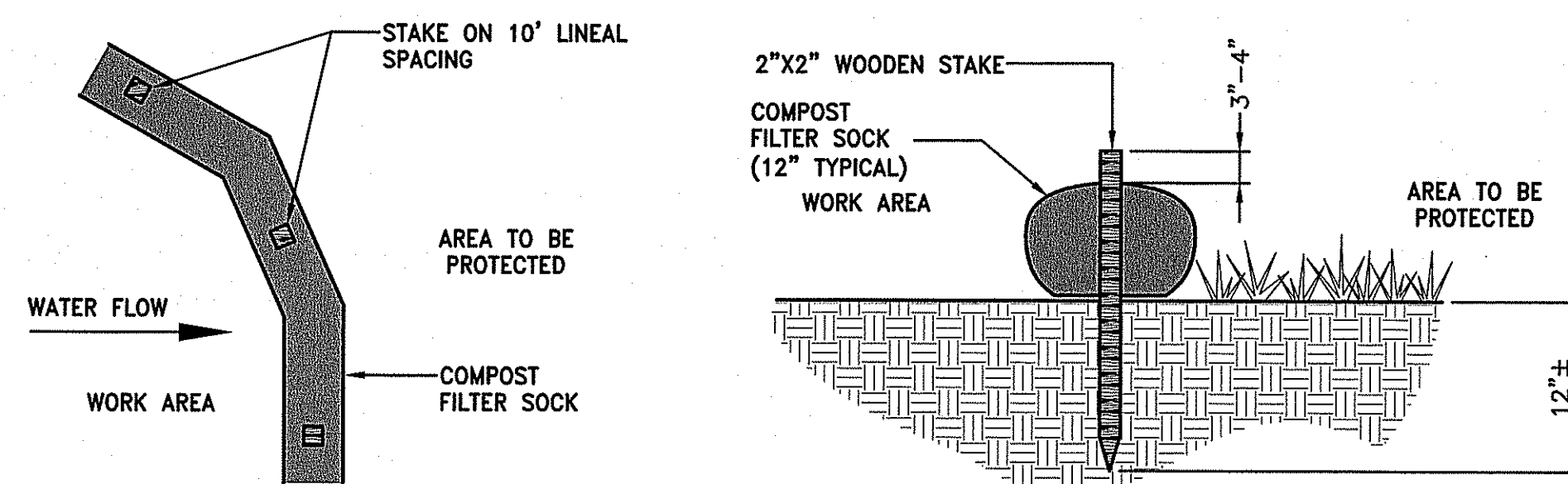
Drawing No:

C5.01

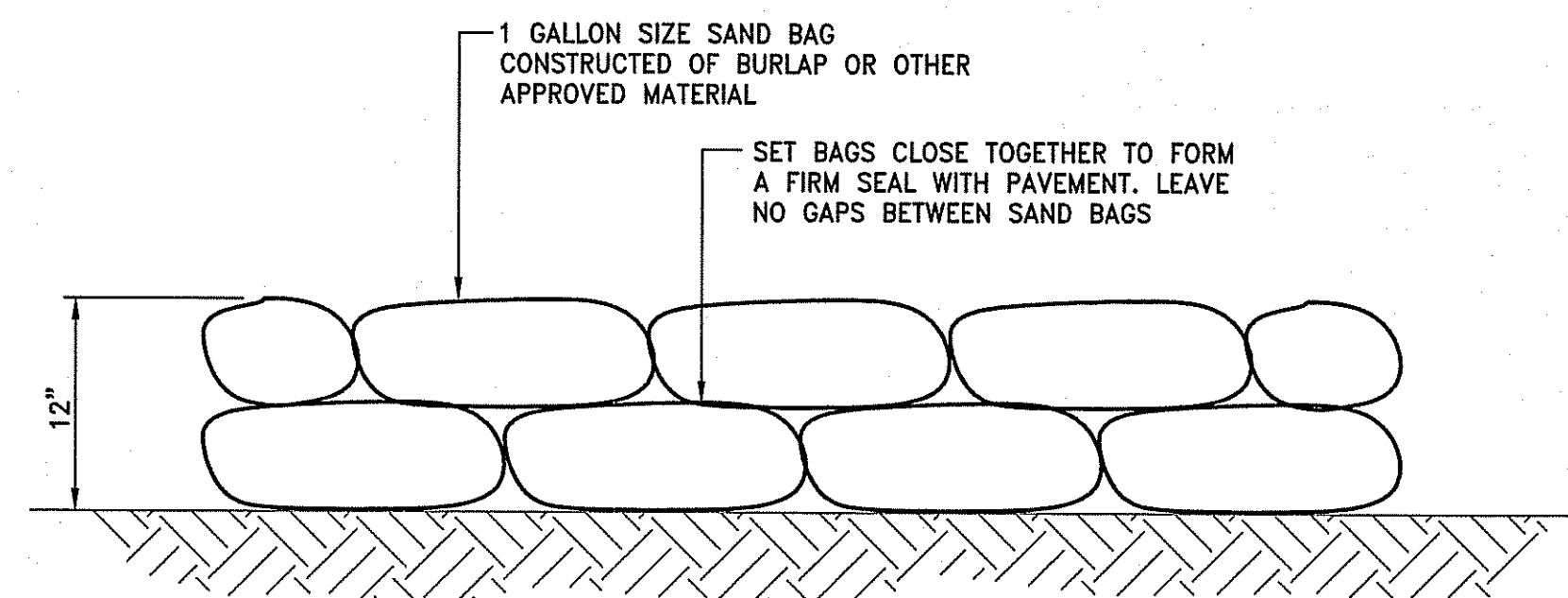
Sheet No: 32 Of 54



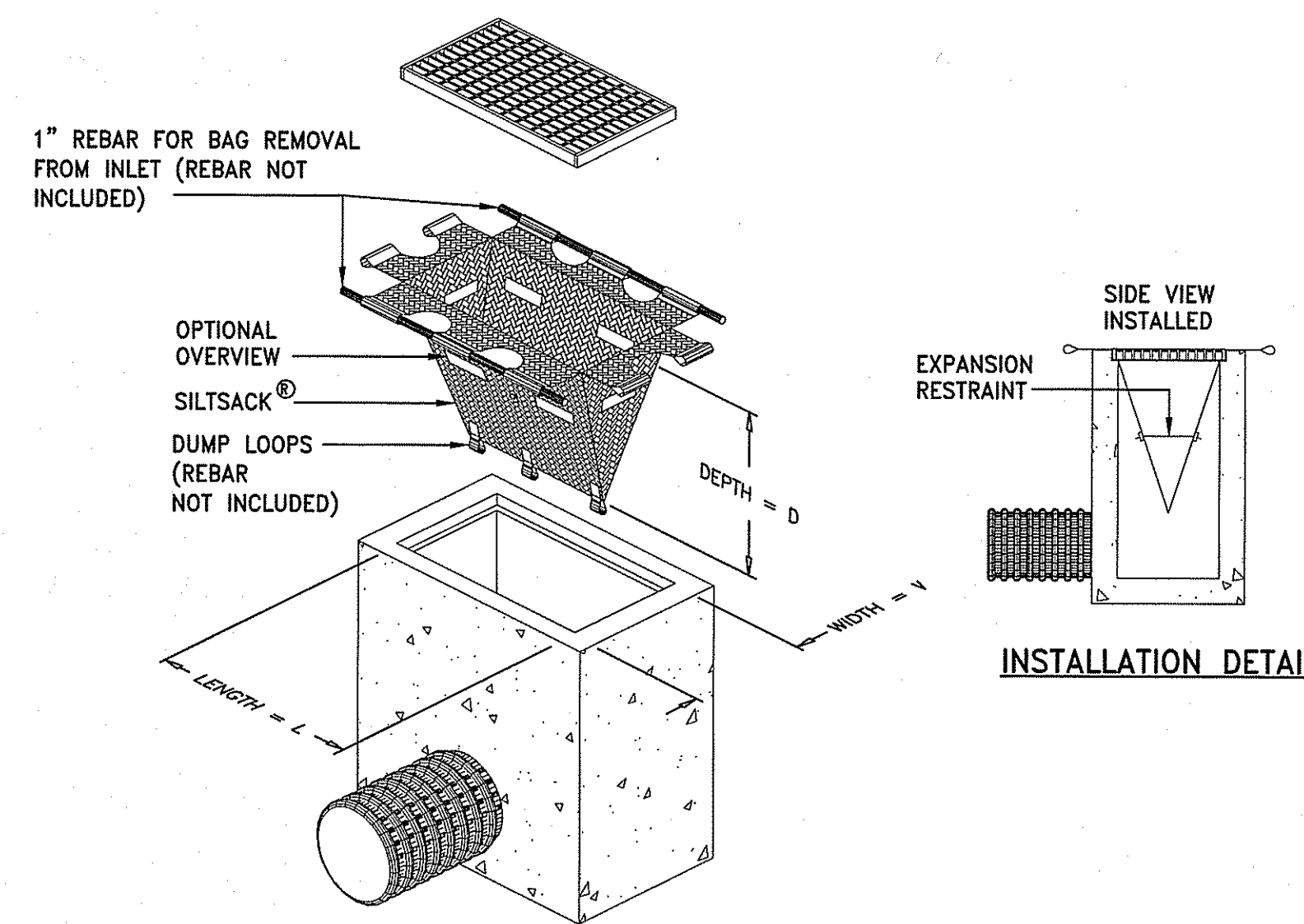
ERODIBLE MATERIAL STOCKPILE
NOT TO SCALE



CFS COMPOST FILTER SOCK DETAIL
NOT TO SCALE

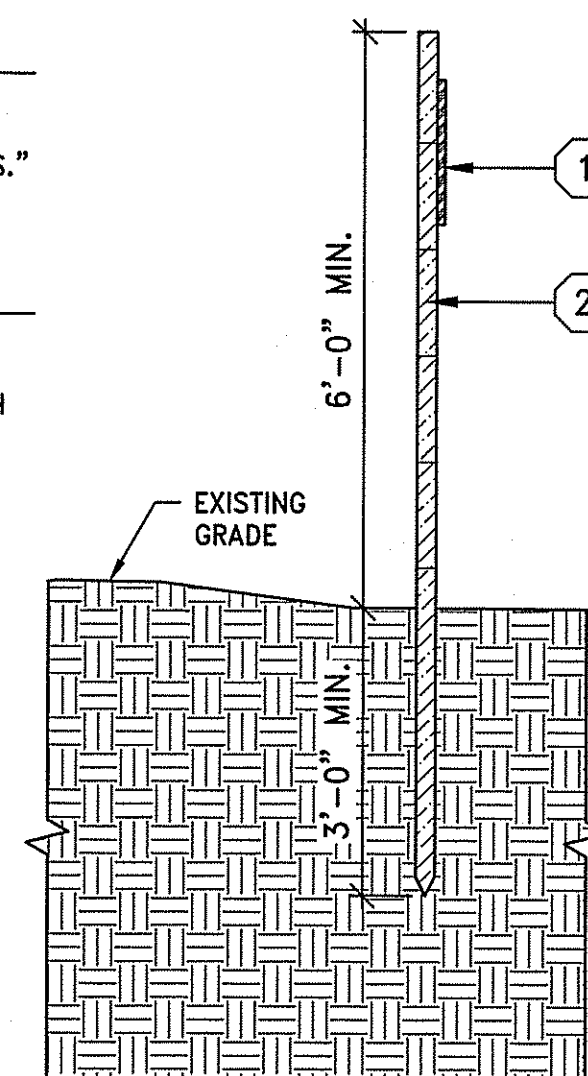


SB SAND BAG EROSION CONTROL BARRIER
NOT TO SCALE



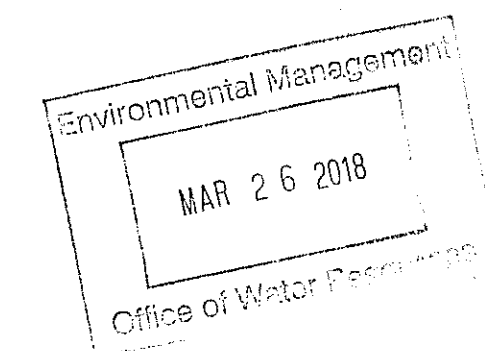
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NOT TO SCALE

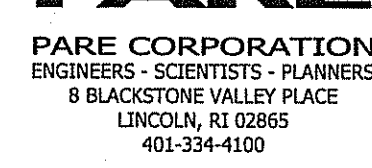
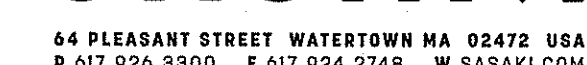
- LEGEND**
1. SIGN - "KEEP OUT; SITE
PROTECTION ZONE. PENALTIES
ASSESSED FOR DAMAGE TO TREES."
2. CHAIN LINK FENCE POST SET IN
GROUND
- NOTES**
A. SIGNS SHALL BE PLACED AT
30'-0" INTERVALS.
B. SIGNS SHALL HAVE BOTH ENGLISH
AND SPANISH TRANSLATION.
C. REFER TO "GENERAL PLANS" FOR
LOCATIONS OF TREE PROTECTION.



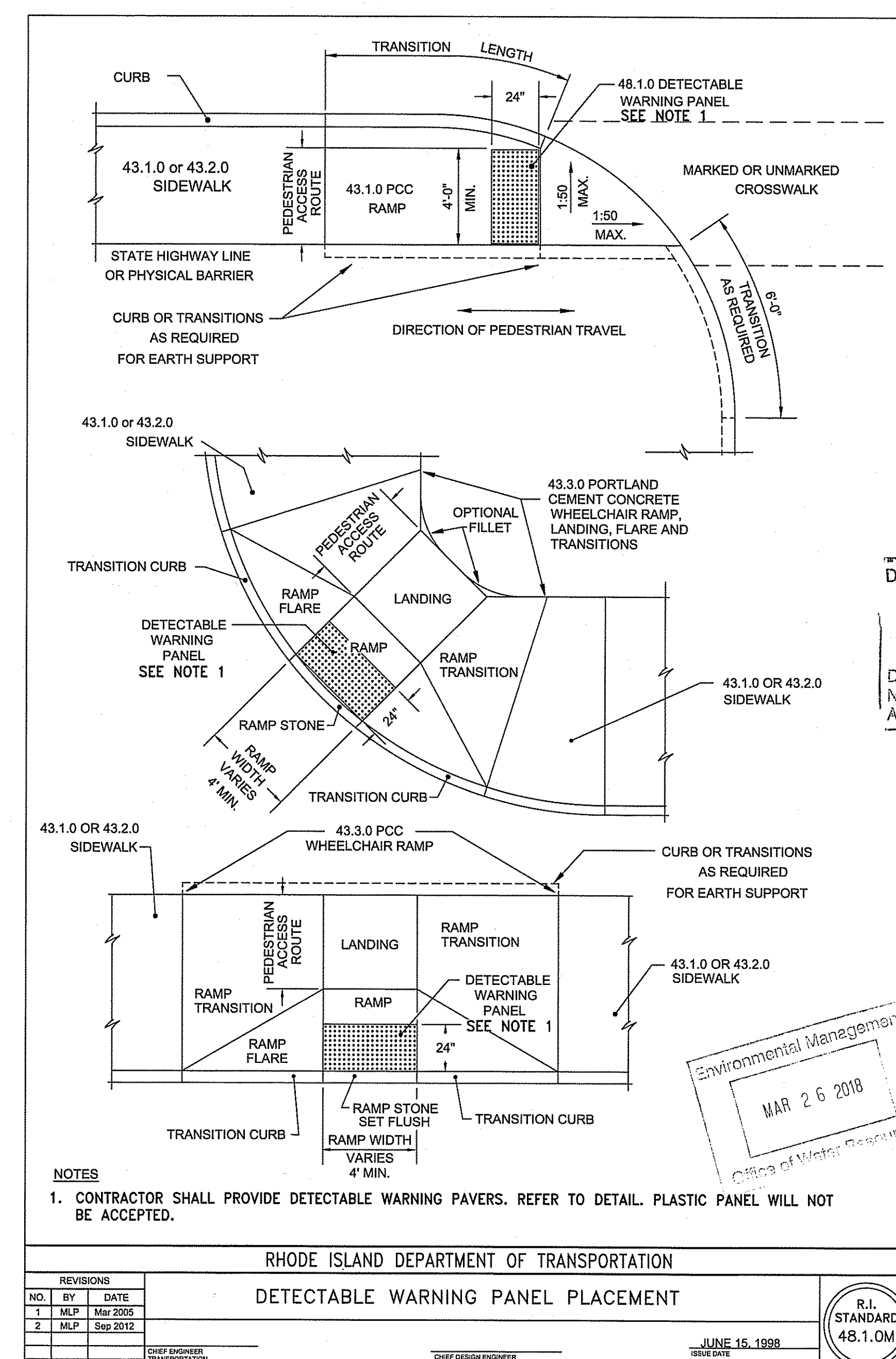
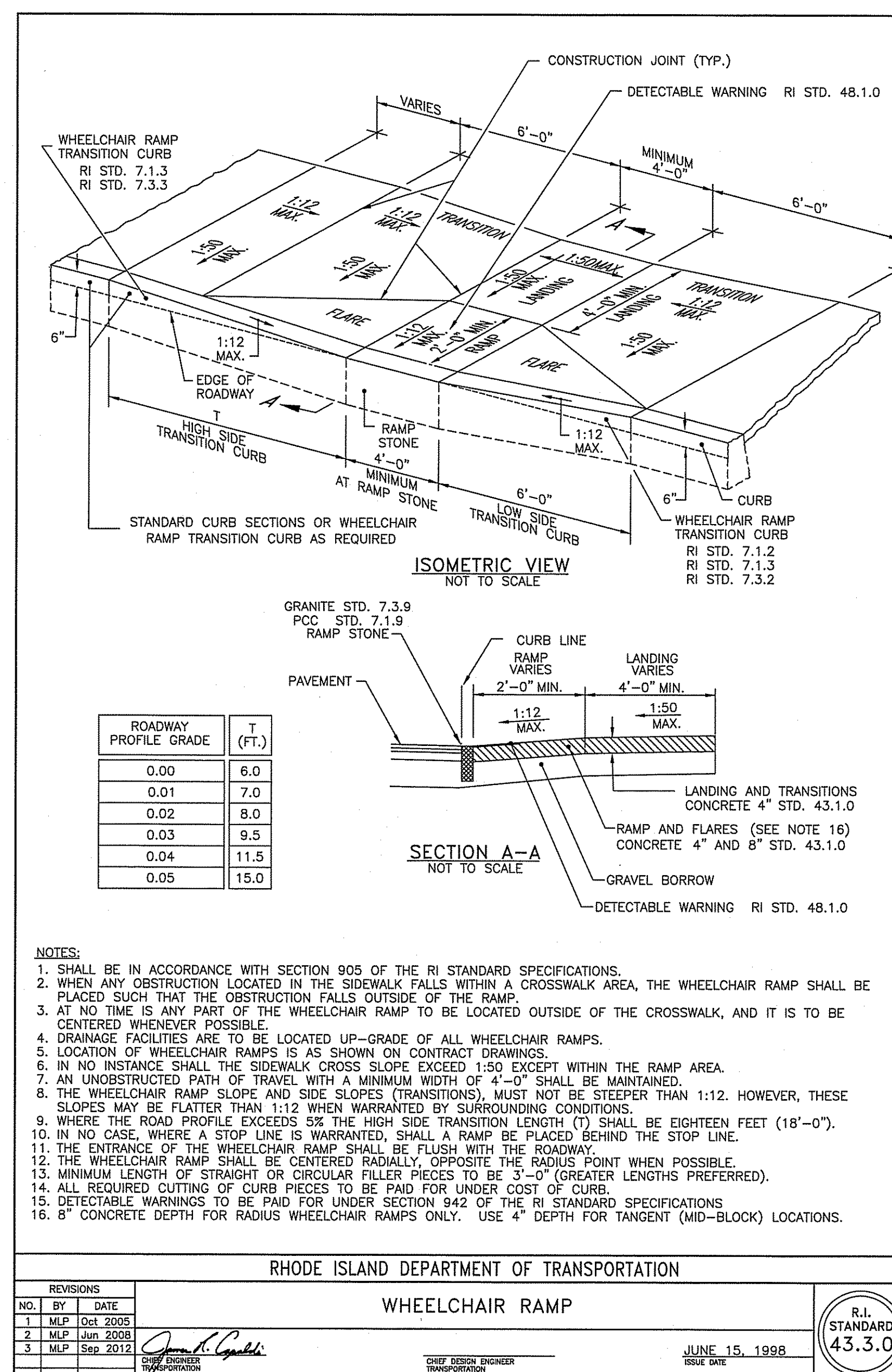
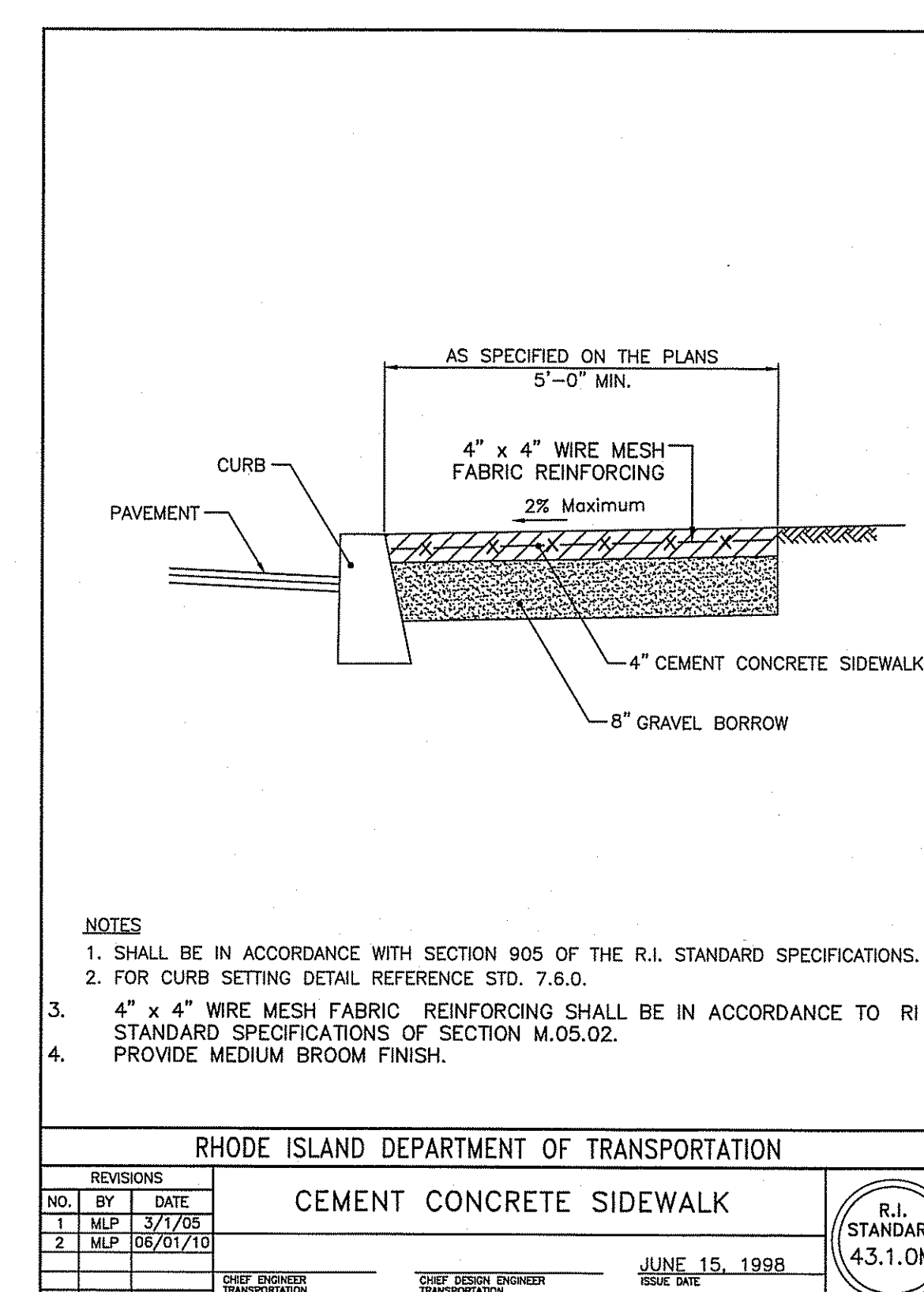
DTP DRIPLINE TREE PROTECTION FENCE - AT DRIPLINE
NOT TO SCALE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 08 2018 FILE # 18-0063
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
MARTIN D. WENCEK





OWNER/APPLICANT:
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OFFICE OF CAPITAL PROJECTS
60 TOOTELL ROAD
KINGSTON, RHODE ISLAND
TEL: 401-874-2725
AP 23-1, LOT 1 & AP 30, LOTS 24 & 27



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
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DATED MAY 08 2018 FILE # 18-0063
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Project Title:

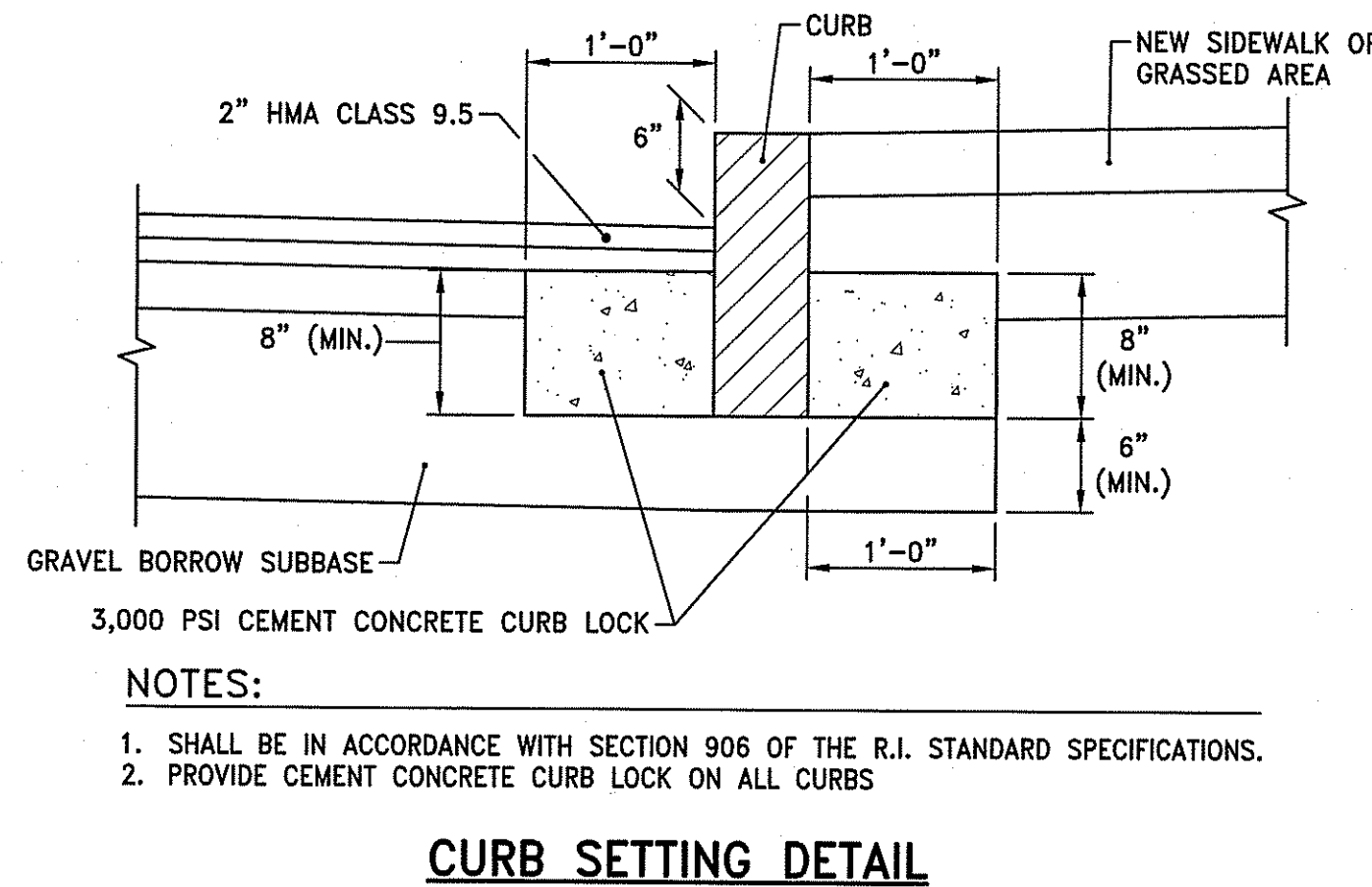
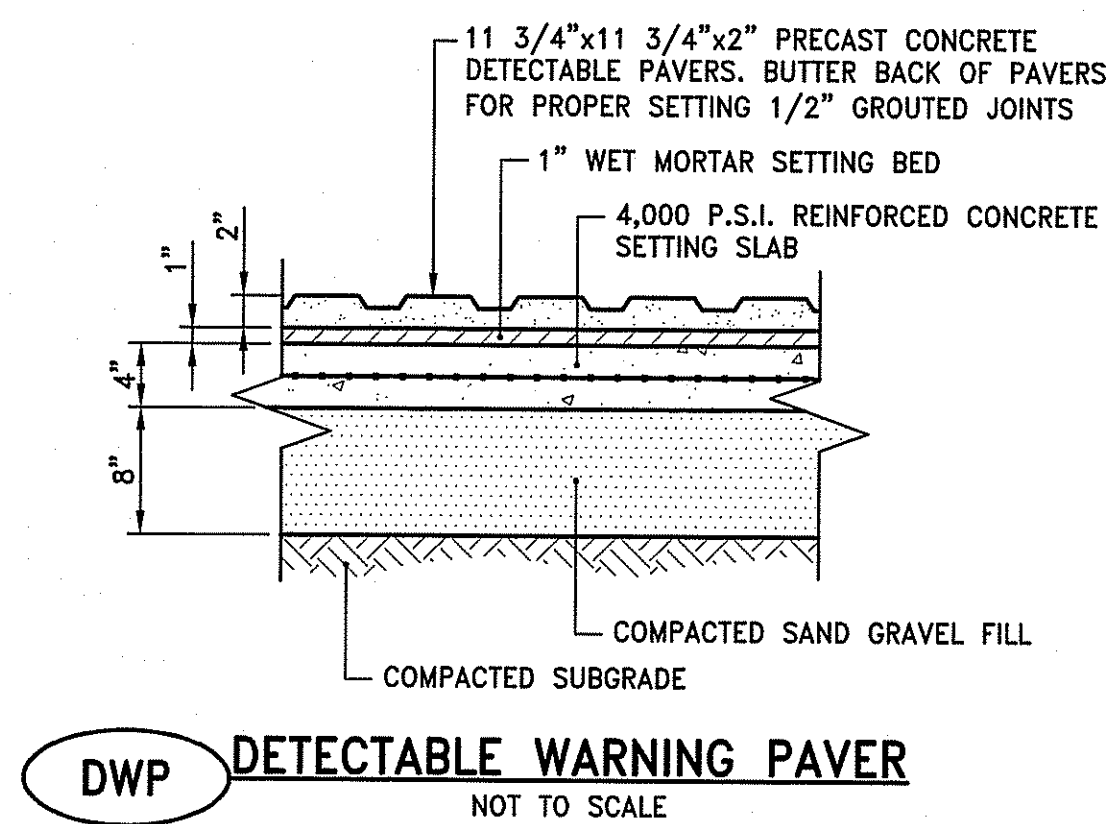
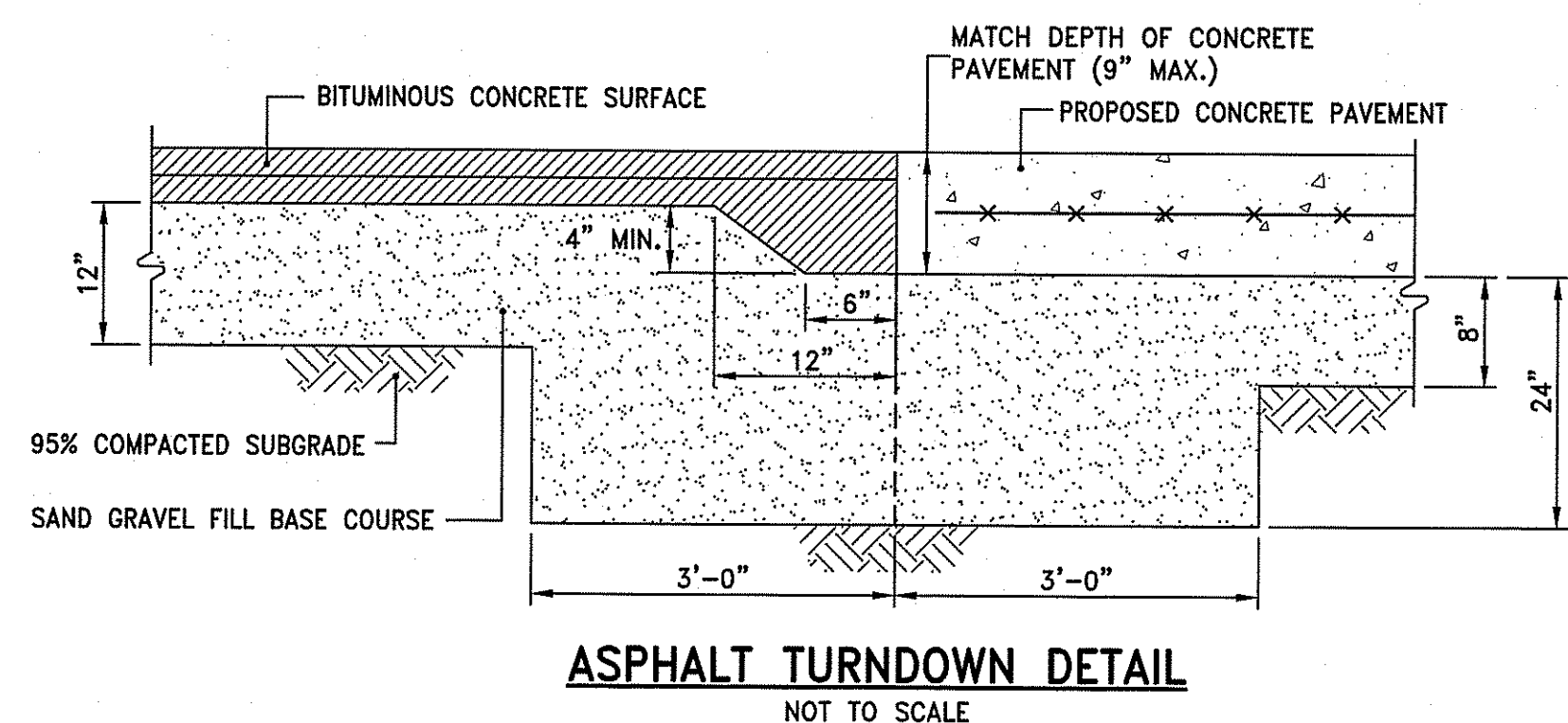
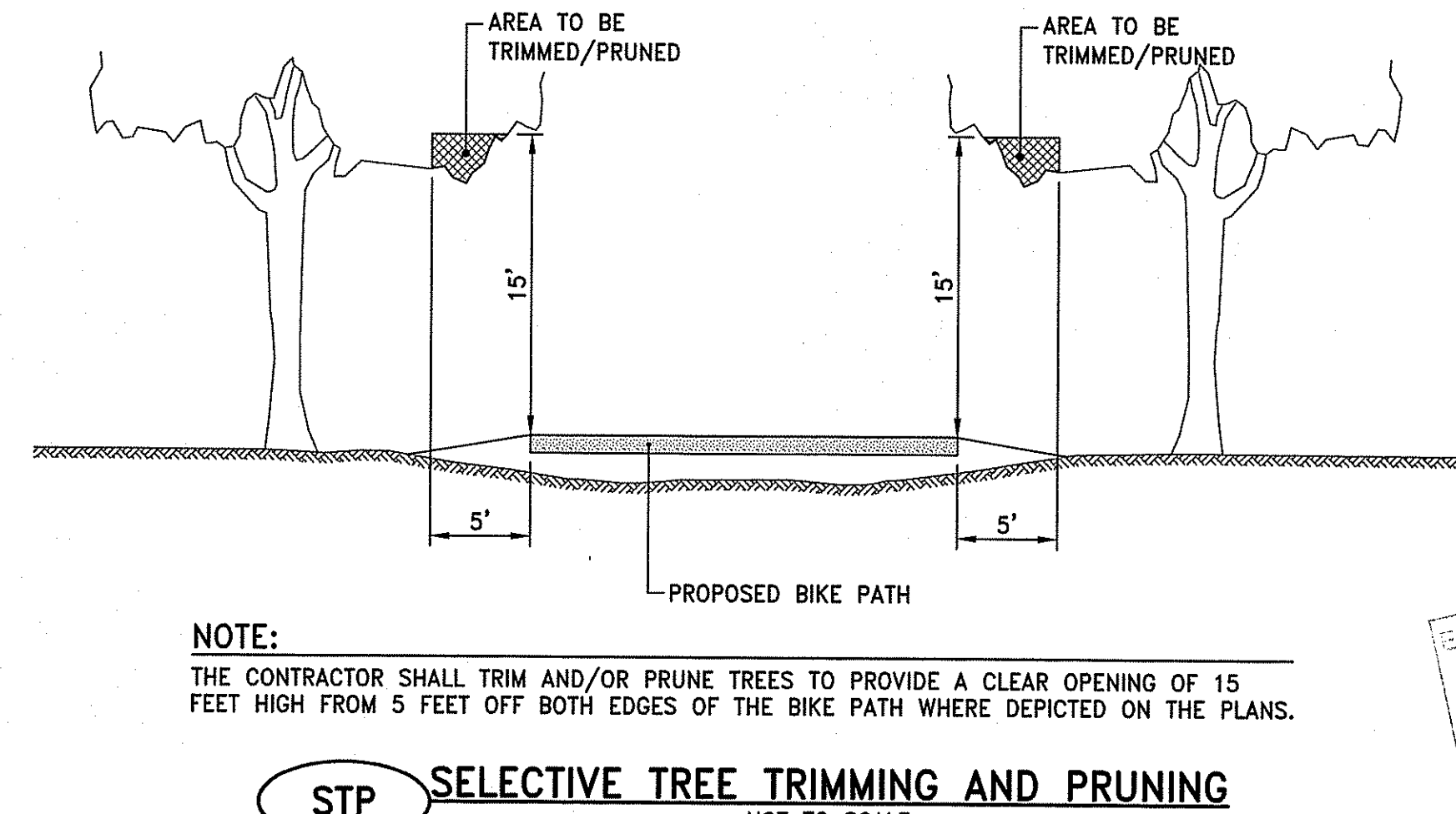
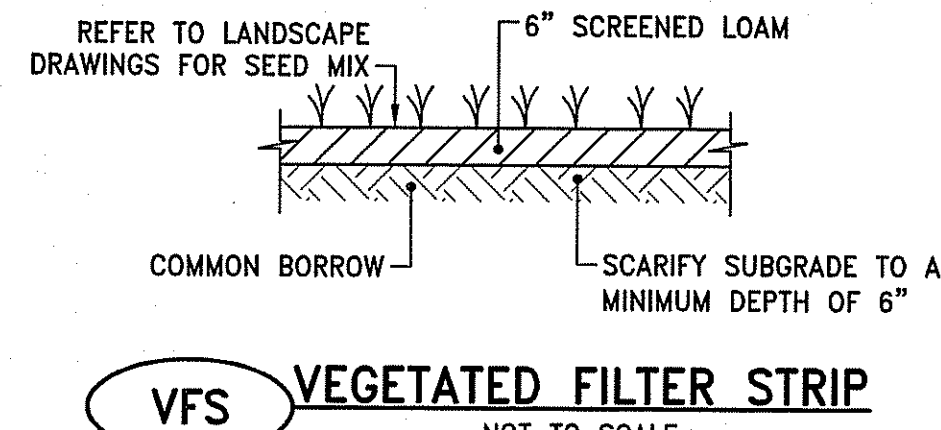
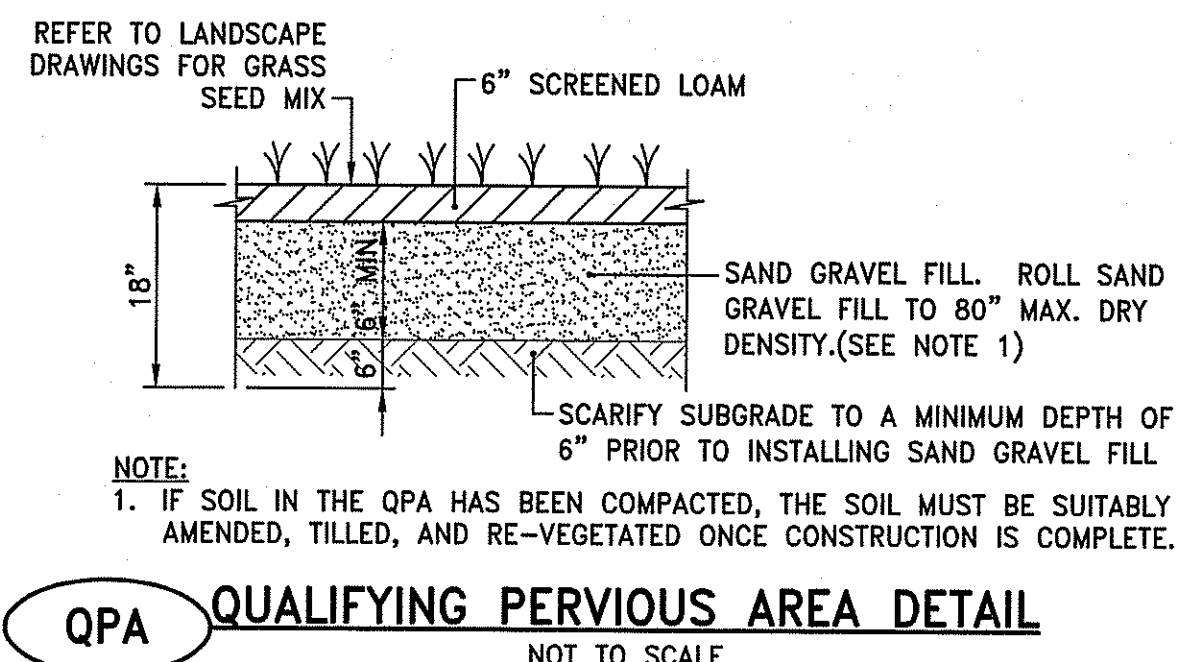
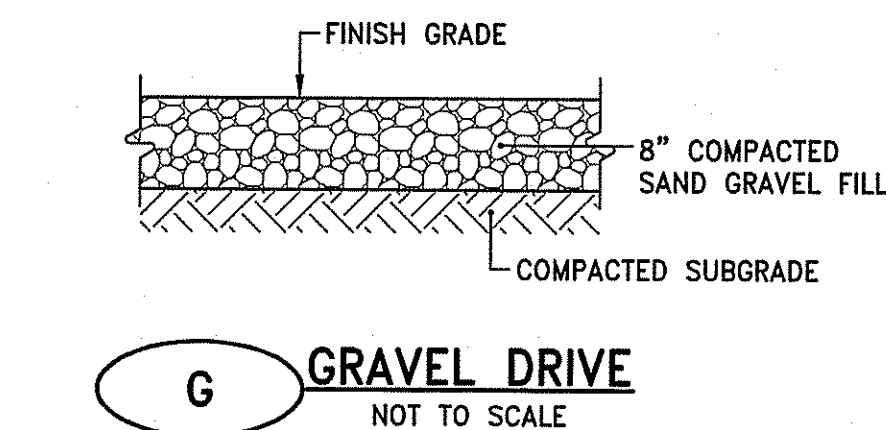
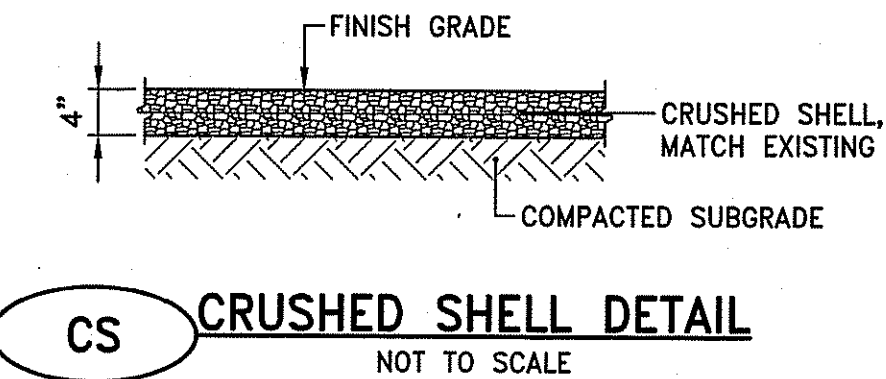
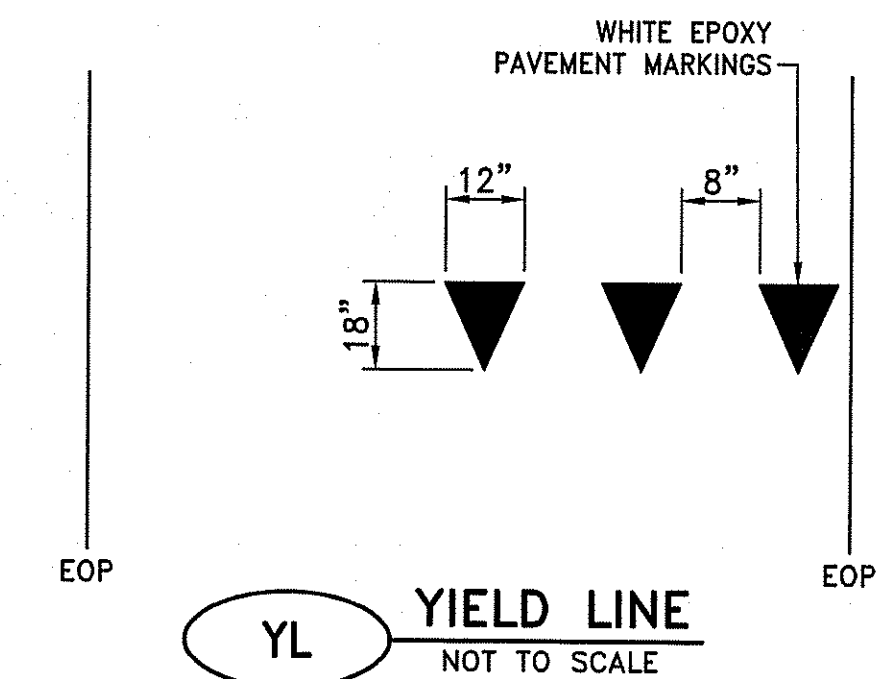
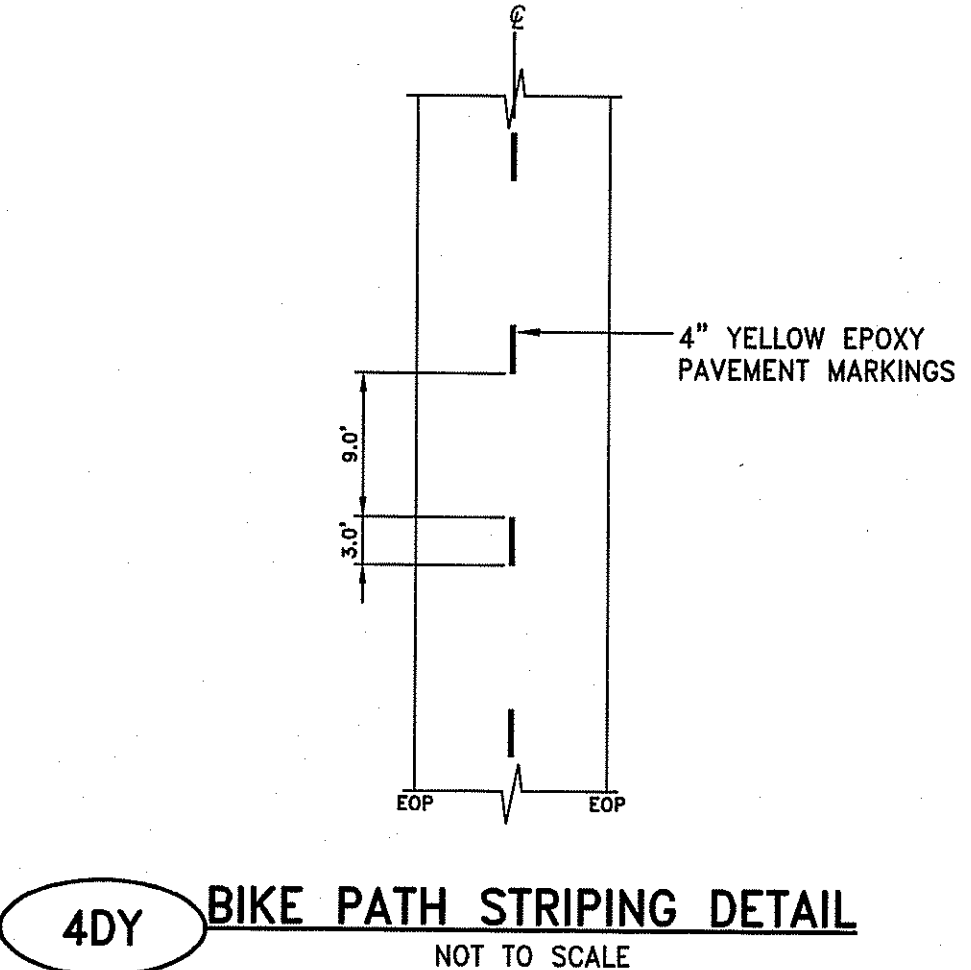
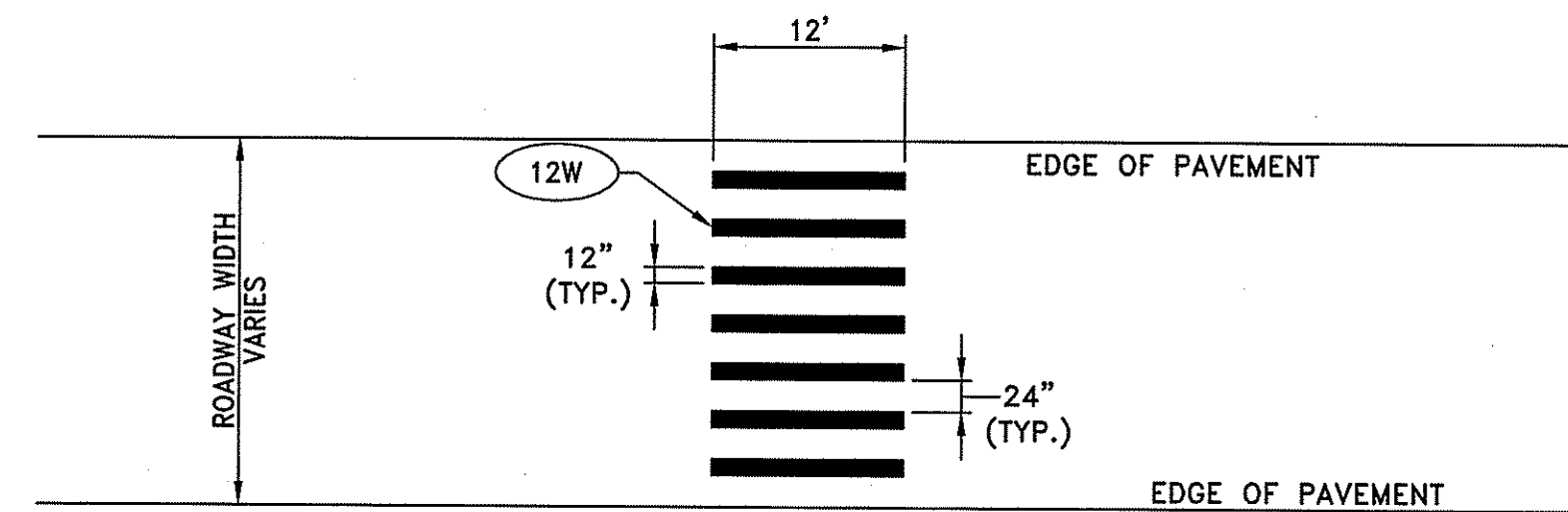
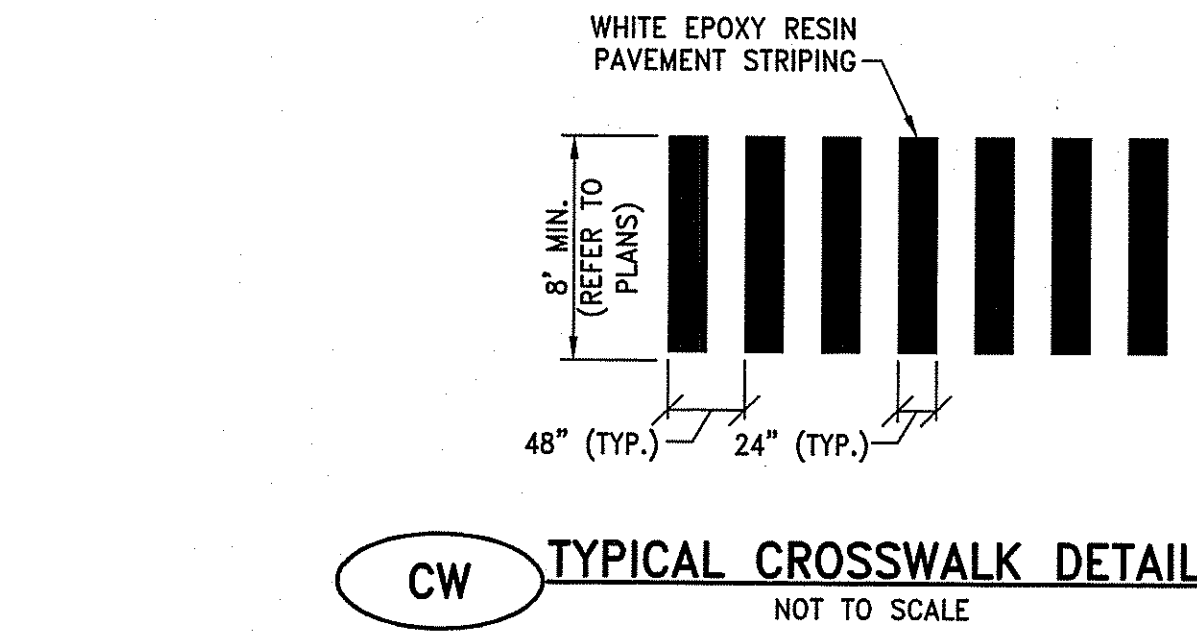
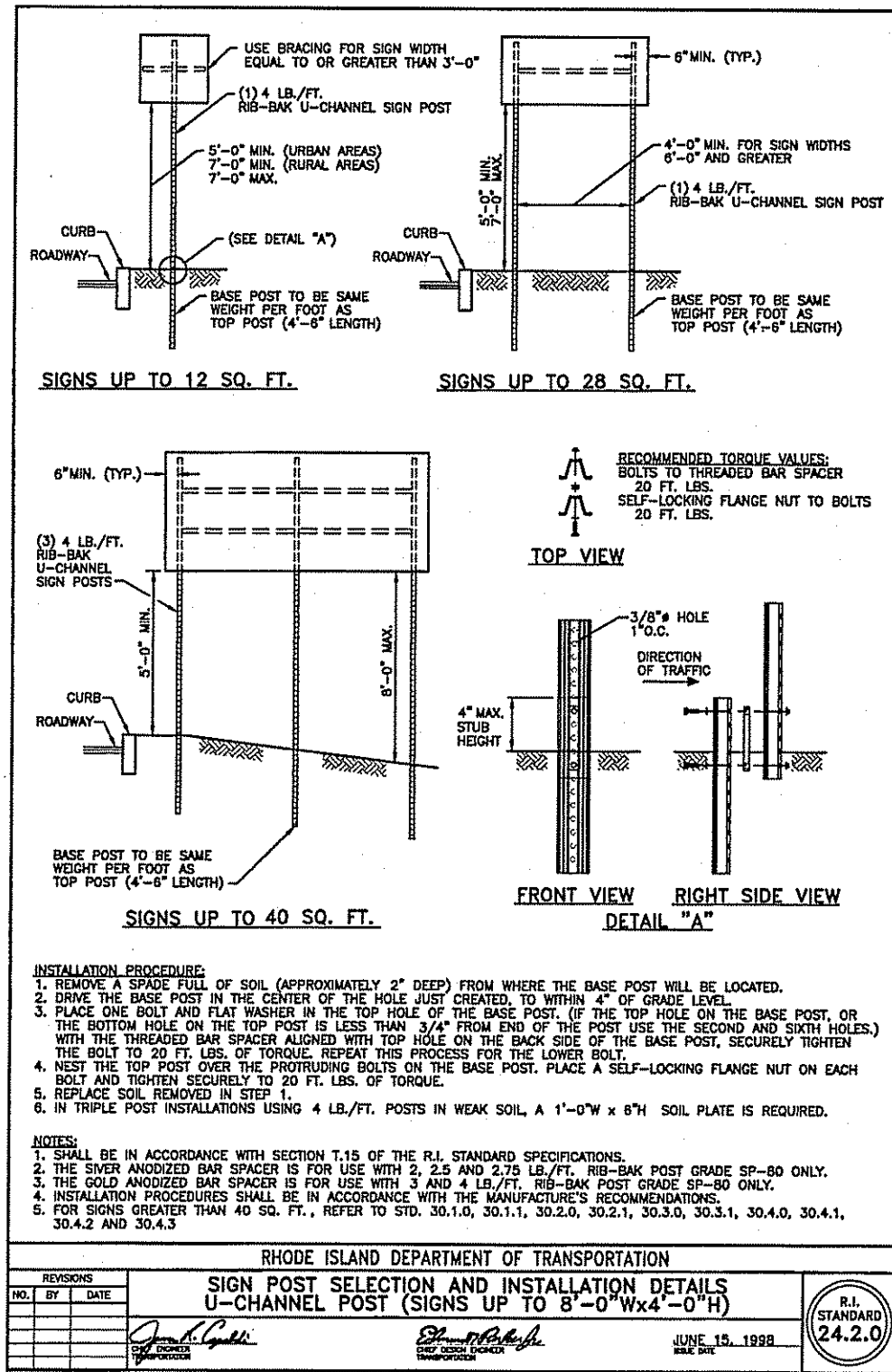
URI/SOUTH COUNTY
BIKE PATH CONNECTOR

Drawing Title

DETAILS No. 2

Project No: 15180.03 Scale: AS NOTED
 Drawn By:
 Checked By:
 Approved By:
 Date: 03/21/2018

Drawing No: **C5.02**



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED **MAY 08 2018** FILE # **18-0062**
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Stephen D. Wencsek

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64 PLEASANT STREET WATERTOWN MA 02472 USA
 P 617 926 3800 F 617 924 2748 W SASAKI.COM

PARE

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 ENGINEERS - SCIENTISTS - PLANNERS
 8 BLACKSTONE VALLEY PLACE
 LINCOLN, RI 02865
 401-334-4100

OWNER/APPLICANT:
 UNIVERSITY OF RHODE ISLAND
 OFFICE OF CAPITAL PROJECTS
 60 TOOTELL ROAD
 KINGSTON, RHODE ISLAND
 TEL: 401-874-2725
 AP 23-1, LOT 1 & AP 30, LOTS 24 & 27

DWG ISSUE & REVISION HISTORY

Stamp

DAVID L. POTTER
 No. 8665
 REGISTERED PROFESSIONAL ENGINEER
 03-21-18

Key Plan

Environmental Management
 MAR 2 2018
 Office of Water Resources

Project Title:

URI/SOUTH COUNTY
 BIKE PATH CONNECTOR

Drawing Title:

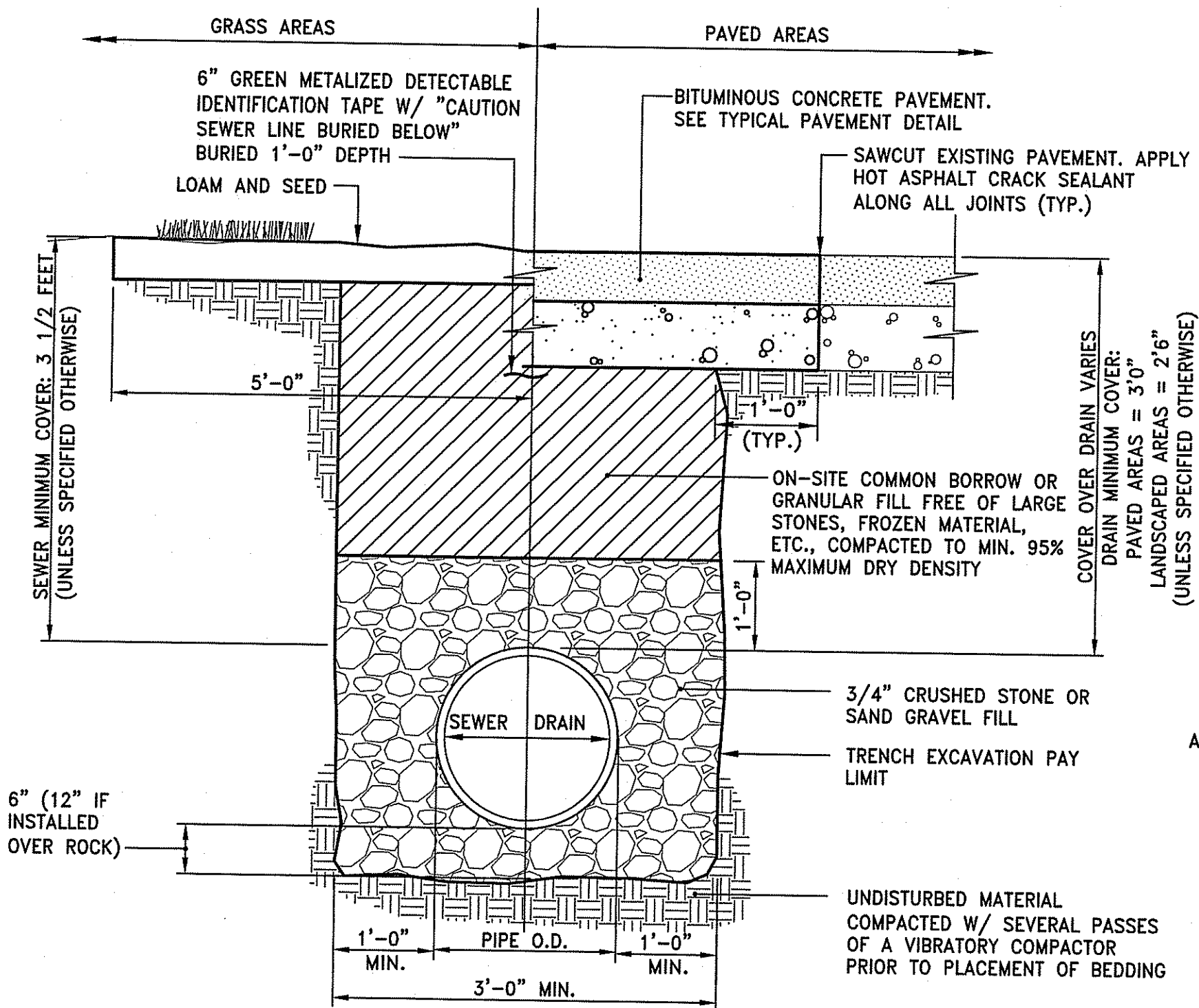
DETAILS No. 3

Project No: 15180.03 Scale: AS NOTED
 Drawn By:
 Checked By:
 Approved By:
 Date: 03/21/2018

Drawing No:

C5.03

Sheet No: 34 Of 54

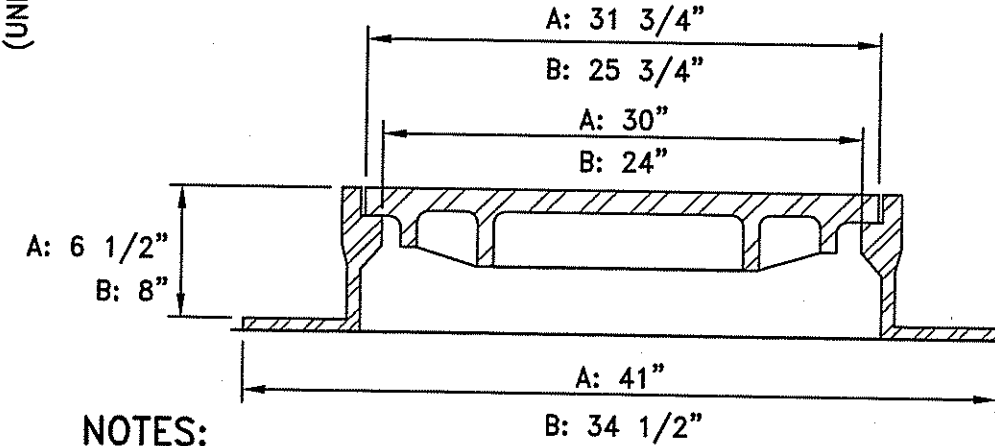
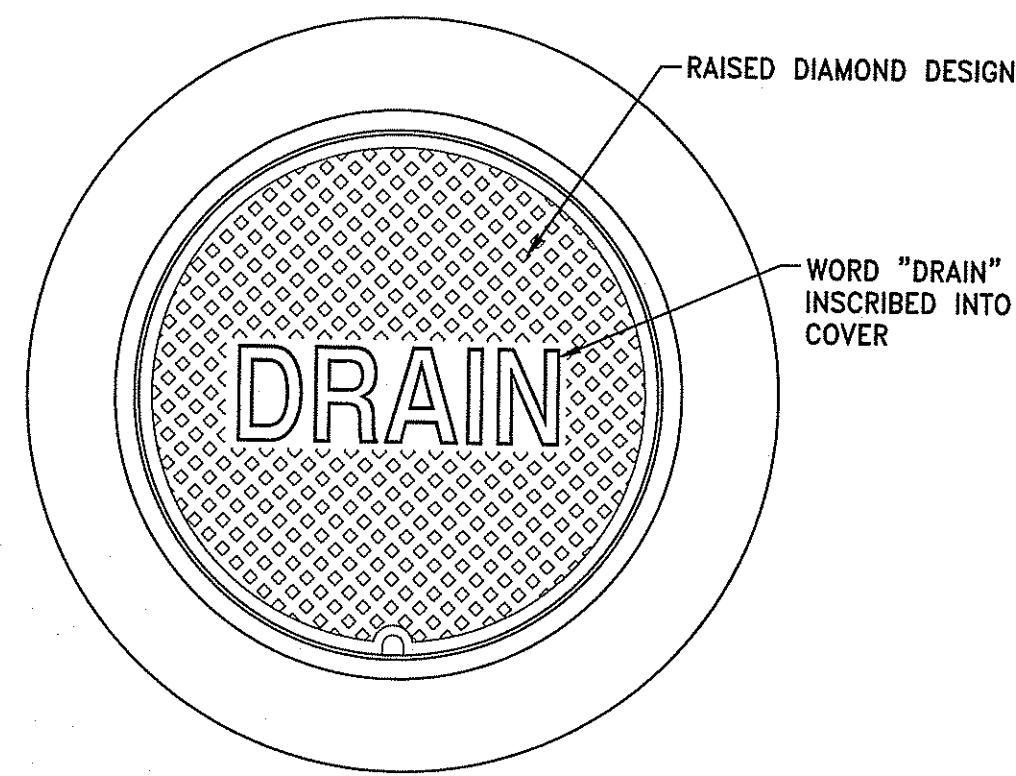


NOTES:

- WHERE THE DISTANCE BETWEEN THE SAWCUT AND EDGE OF PAVEMENT IS 3' OR LESS, THE CONTRACTOR SHALL REPLACE THE PAVEMENT FROM THE TRENCH EDGE TO THE EXISTING EDGE OF PAVEMENT.
- 3/4" DIA. CRUSHED STONE SHALL BE USED AS BEDDING WHERE TRENCH IS BELOW THE GROUND WATER TABLE.

GRAVITY SEWER/RAIN TRENCH DETAIL

NOT TO SCALE

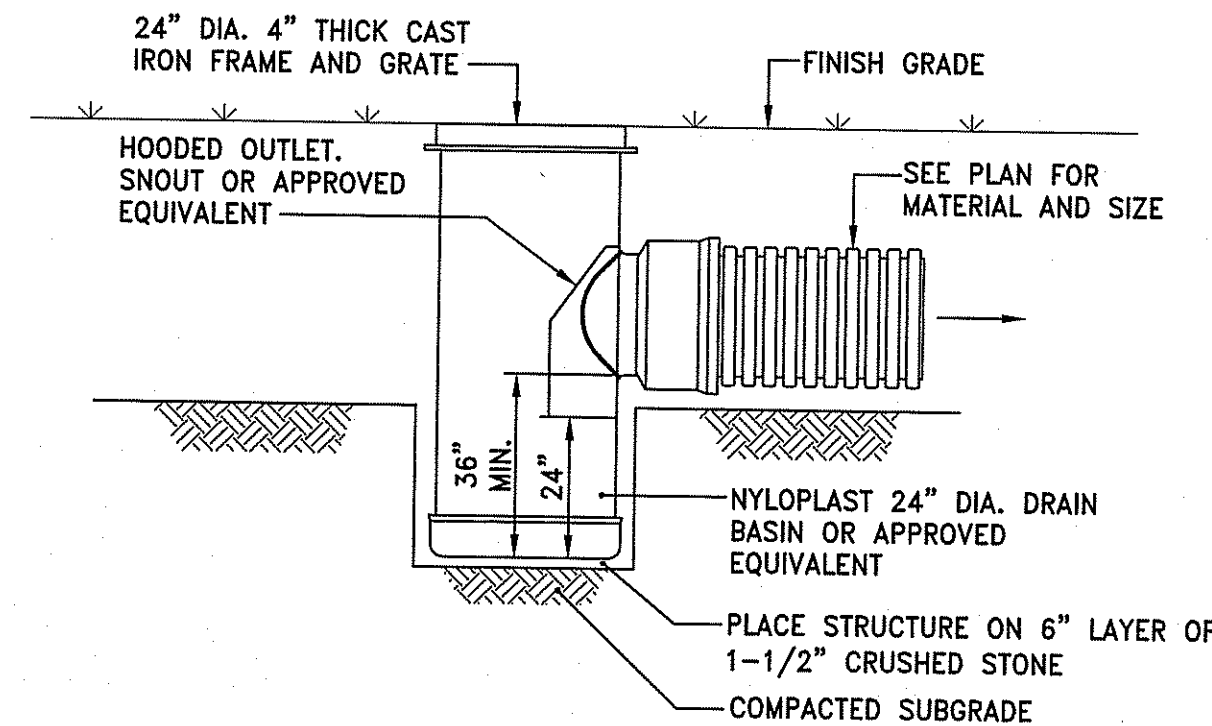


NOTES:

- ALL FRAMES AND COVERS SHALL MEET H-20 LOADING CRITERIA.
- PROVIDE:
 - A: 30" DIA. DRAIN MANHOLE FRAME AND COVER SHALL BE NEENAH FOUNDRY, INC. MODEL #R-1557 OR APPROVED EQUIVALENT.
 - B: 24" DIA. DRAIN MANHOLE FRAME AND COVER SHALL BE NEENAH FOUNDRY, INC. MODEL #R-1556 OR APPROVED EQUIVALENT.
- ALL DRAIN MANHOLES SHALL HAVE 24" DIA. DRAIN MANHOLE COVER UNLESS NOTED OTHERWISE.

DRAIN MANHOLE FRAME & COVER

NOT TO SCALE

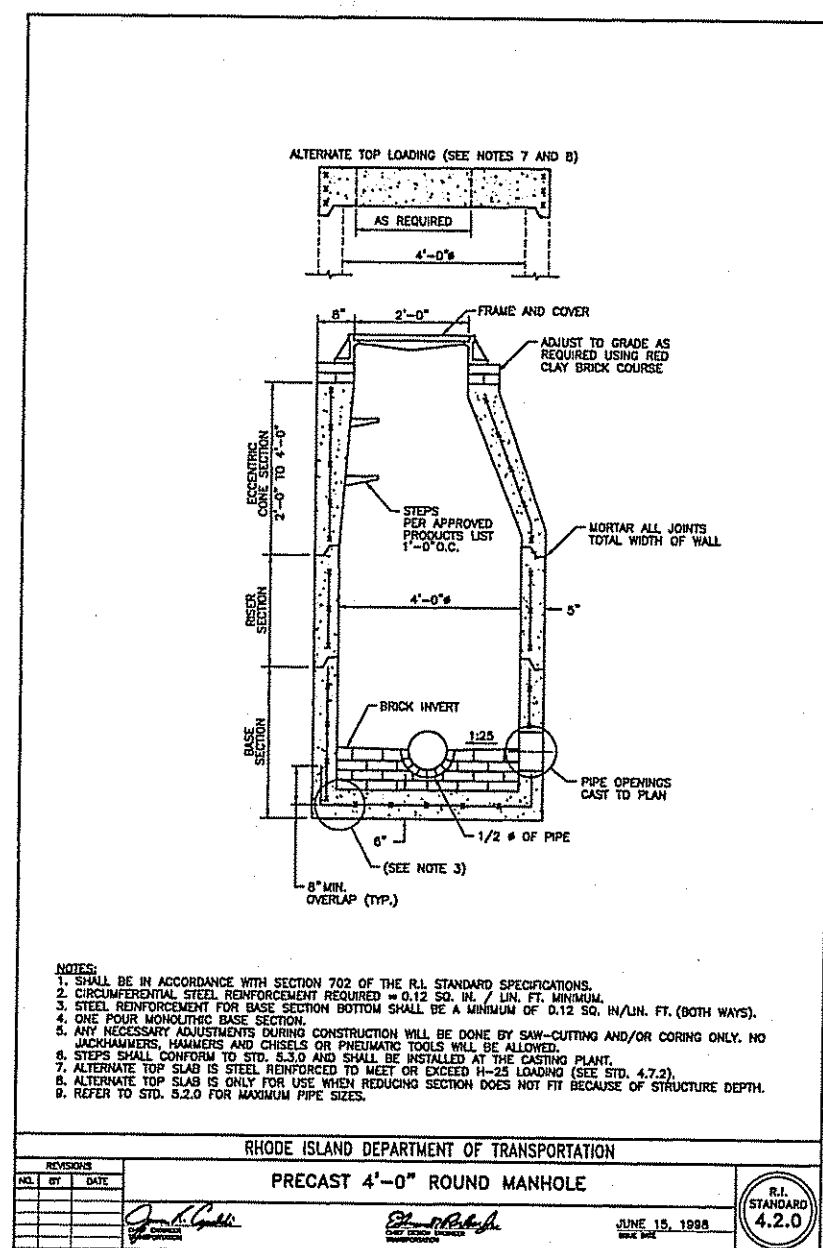


NOTES:

- DRAIN BASIN SHALL BE CUSTOM MANUFACTURED FOR THE PROJECT WITH THE INLETS AND OUTLETS REQUIRED.
- STRUCTURES SHALL BE CONSTRUCTED TO WITHSTAND LOADS IMPOSED BY CONSTRUCTION VEHICLES.
- DRAIN BASIN SHALL BE CONSTRUCTED OF HIGH DENSITY POLYETHYLENE.
- PROVIDE HOODED OUTLET ON ALL DRAIN BASINS.
- FRAME AND GRATE SHALL BE CONSTRUCTED OF DUCTILE IRON AND CONFORM TO ASTM A536 GRADE 70-50-05. PROVIDE NYLOPLAST S499CGS OR APPROVED EQUIVALENT.

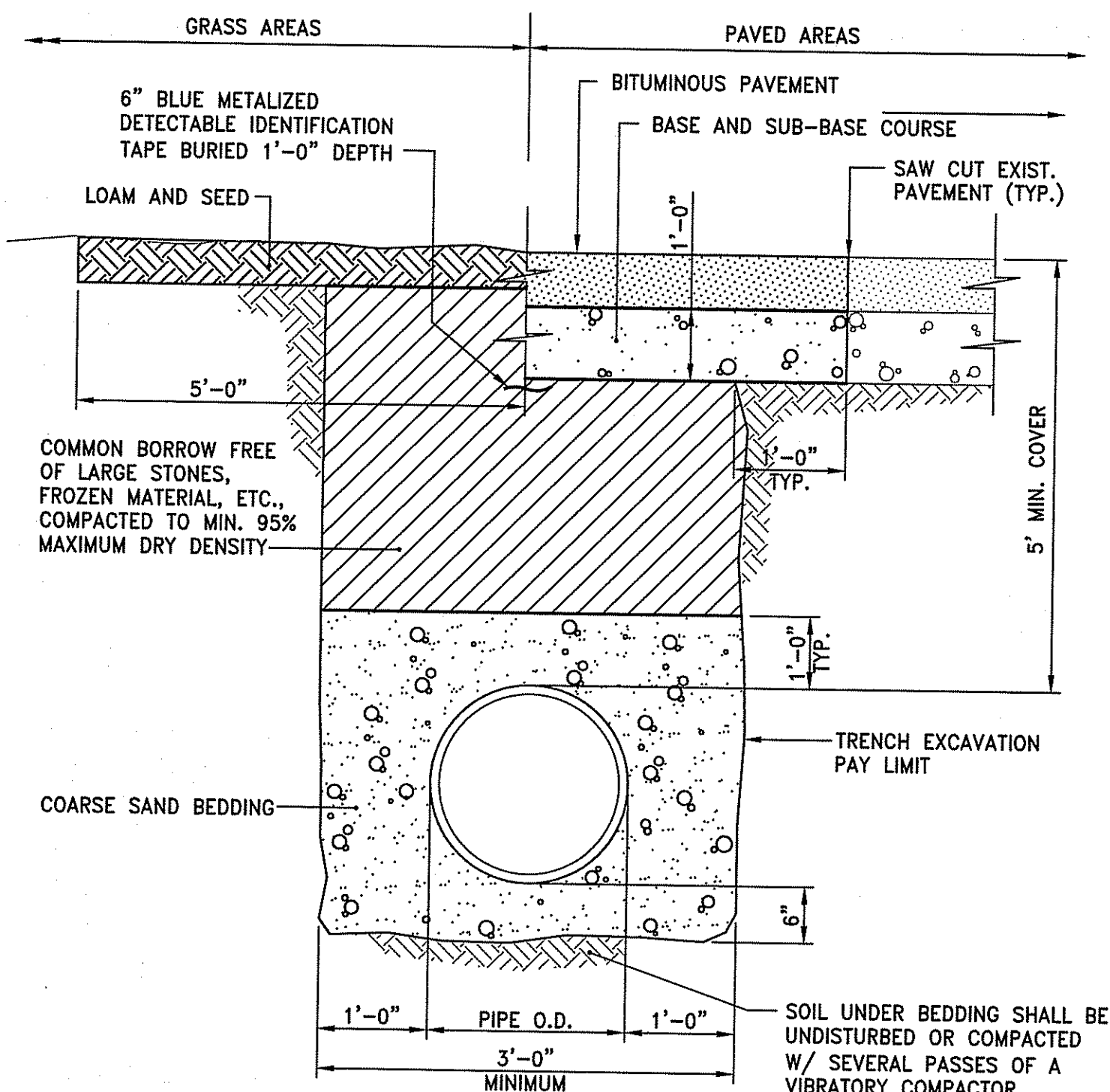
AREA DRAIN DETAIL

NOT TO SCALE



OUTLET HOOD DETAIL

NOT TO SCALE

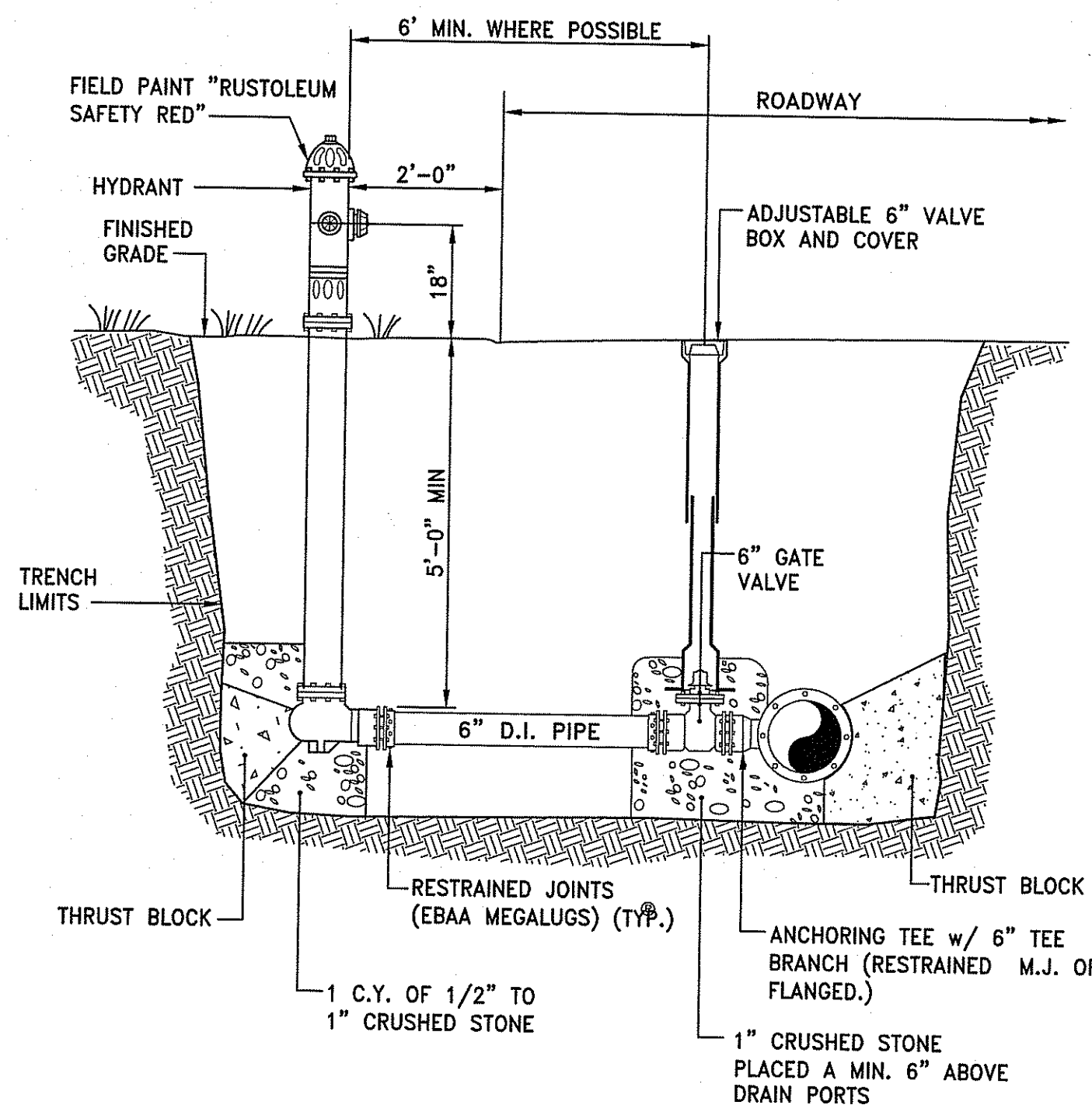


NOTE:

PIPE SHALL BE BEDDED IN 3/4-INCH CRUSHED STONE IF WITHIN GROUNDWATER.

TYPICAL WATER MAIN TRENCH DETAIL

NOT TO SCALE



HYD HYDRANT DETAIL

NOT TO SCALE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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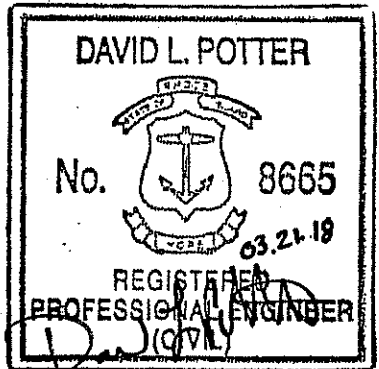
PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-1100

OWNER/APPLICANT:

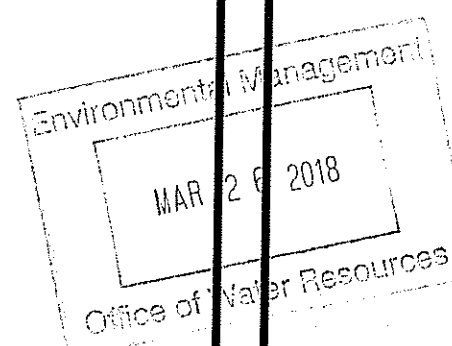
UNIVERSITY OF RHODE ISLAND
OFFICE OF CAPITAL PROJECTS
60 TOOTELL ROAD
KINGSTON, RHODE ISLAND
TEL: 401-874-2725
AP 23-1, LOT 1 & AP 30, LOTS 24 & 27

DWG ISSUE & REVISION HISTORY

Stamp



Key Plan



Project Title:

URI/SOUTH COUNTY
BIKE PATH CONNECTOR

Drawing Title:

DETAILS No. 4

Project No: 15180.03

Scale: AS NOTED

Drawn By:

Checked By:

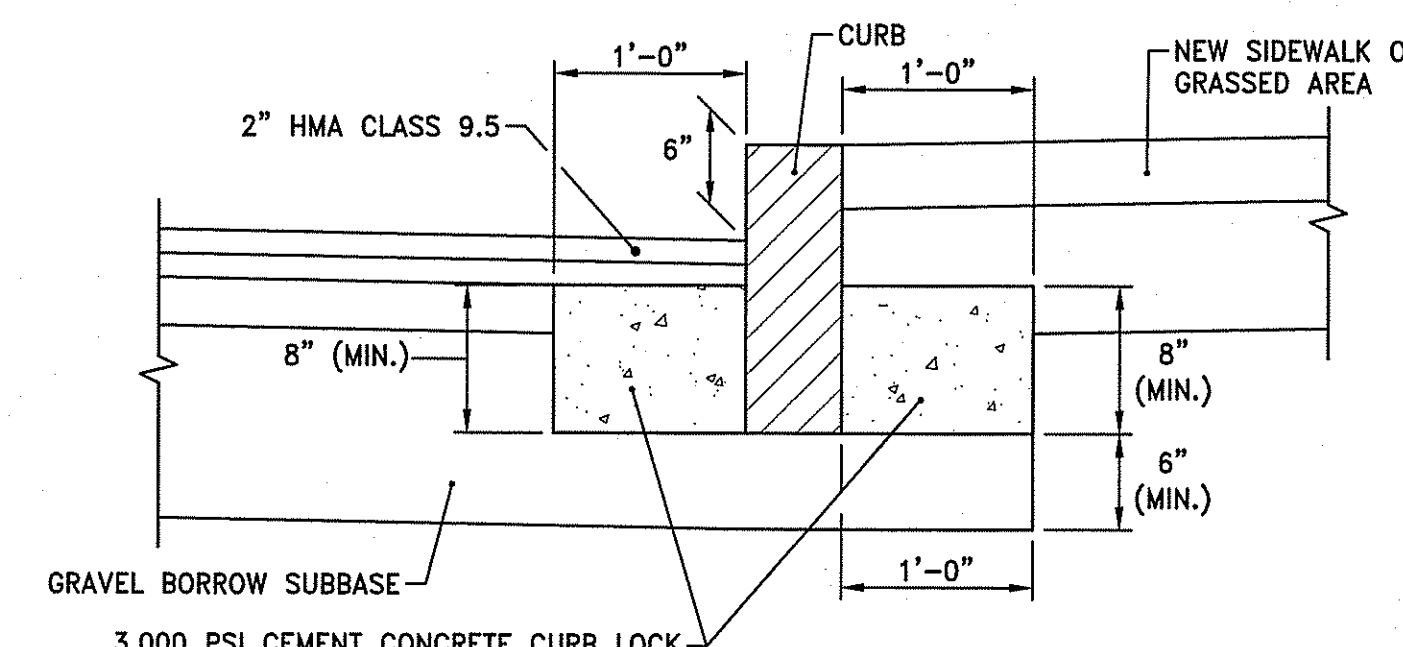
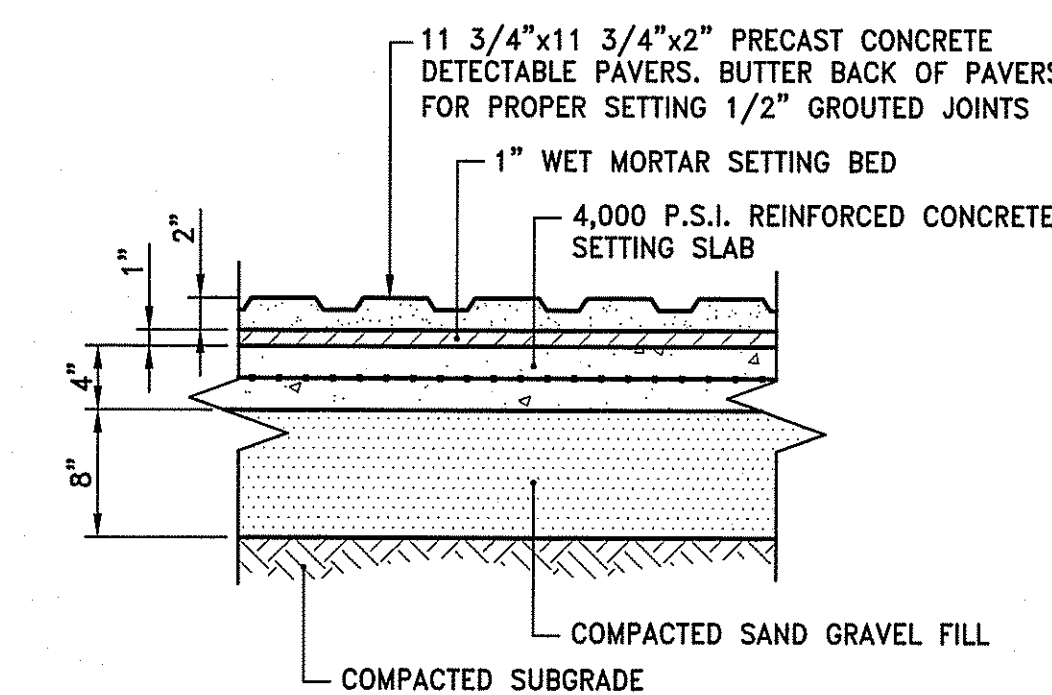
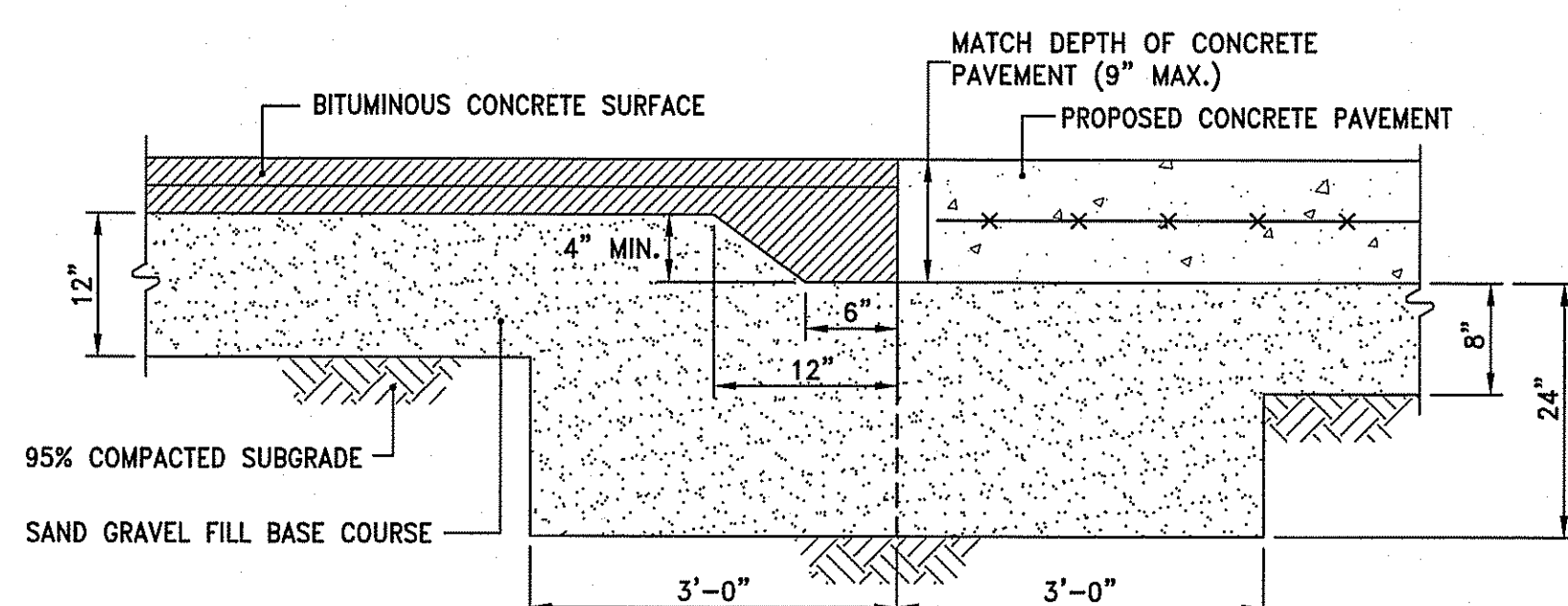
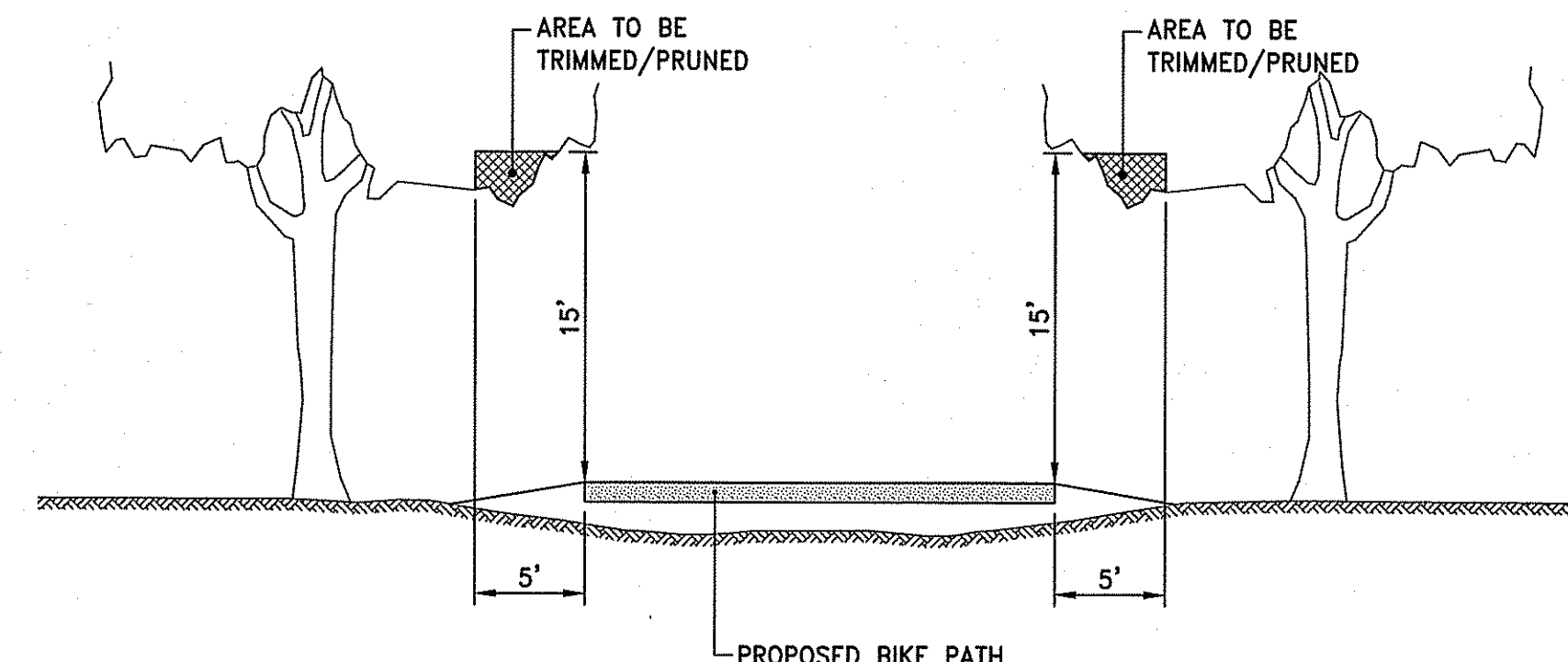
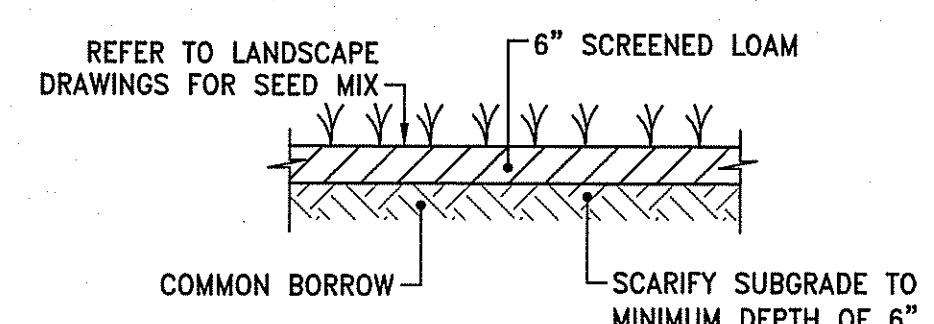
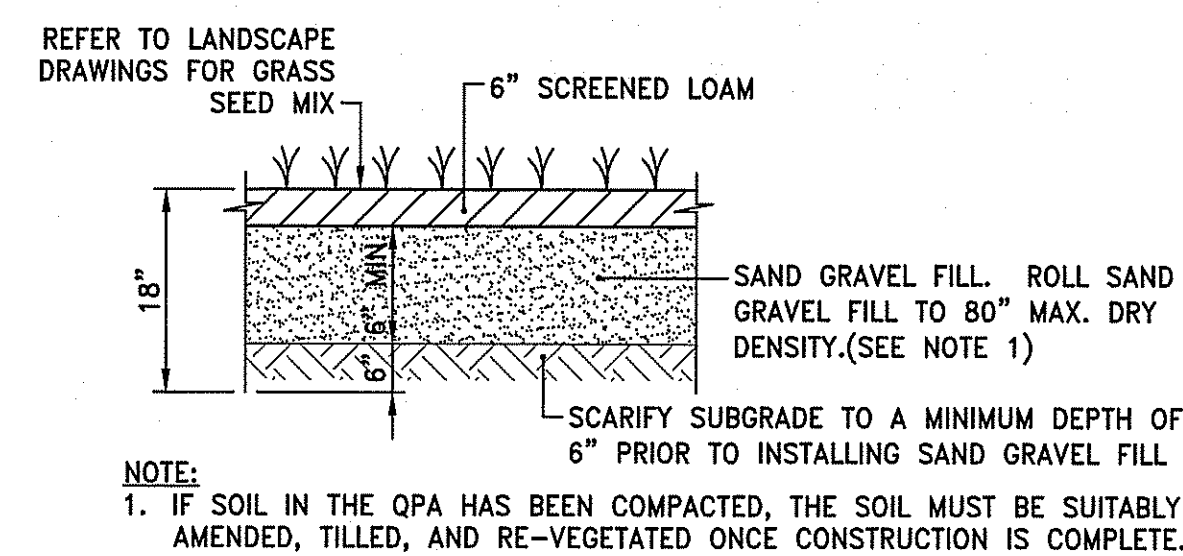
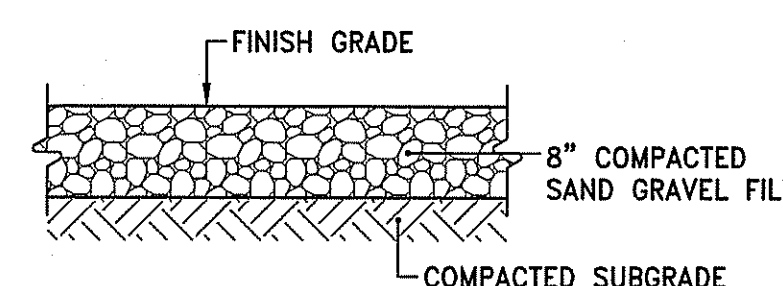
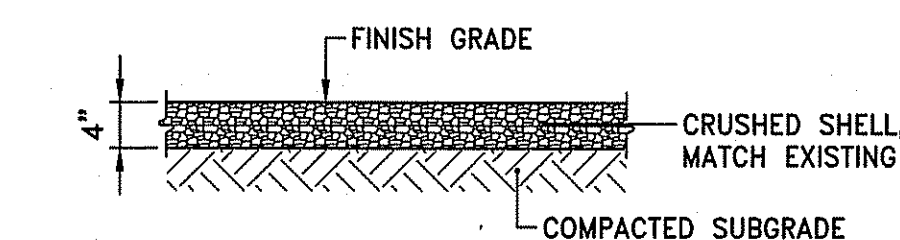
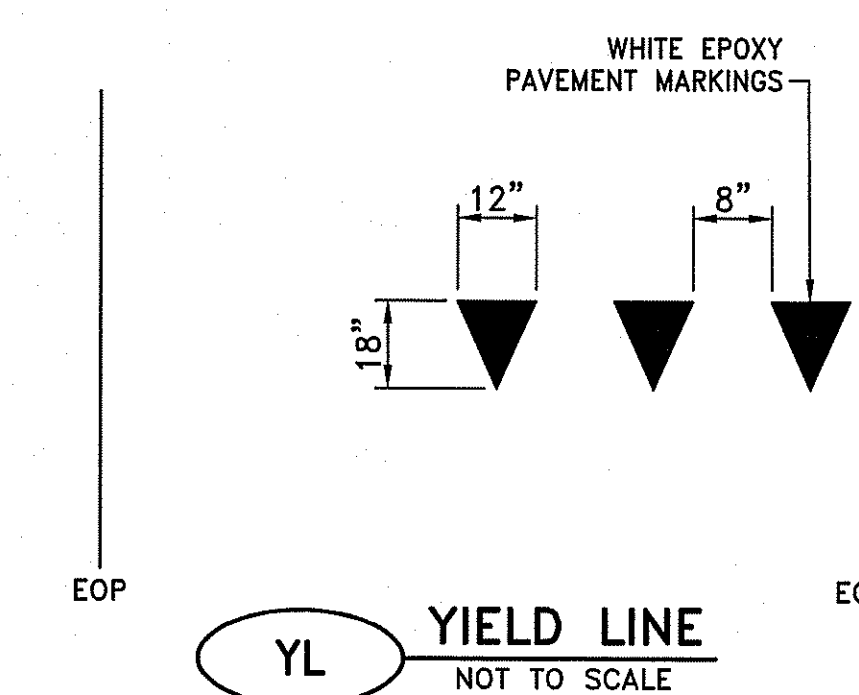
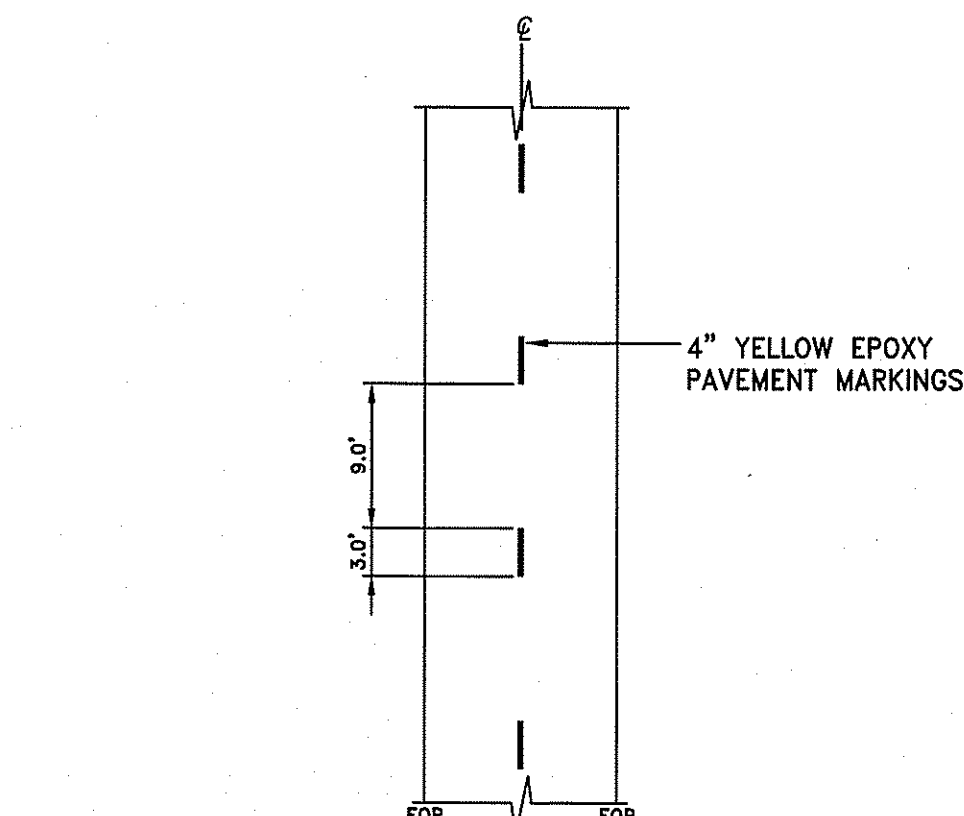
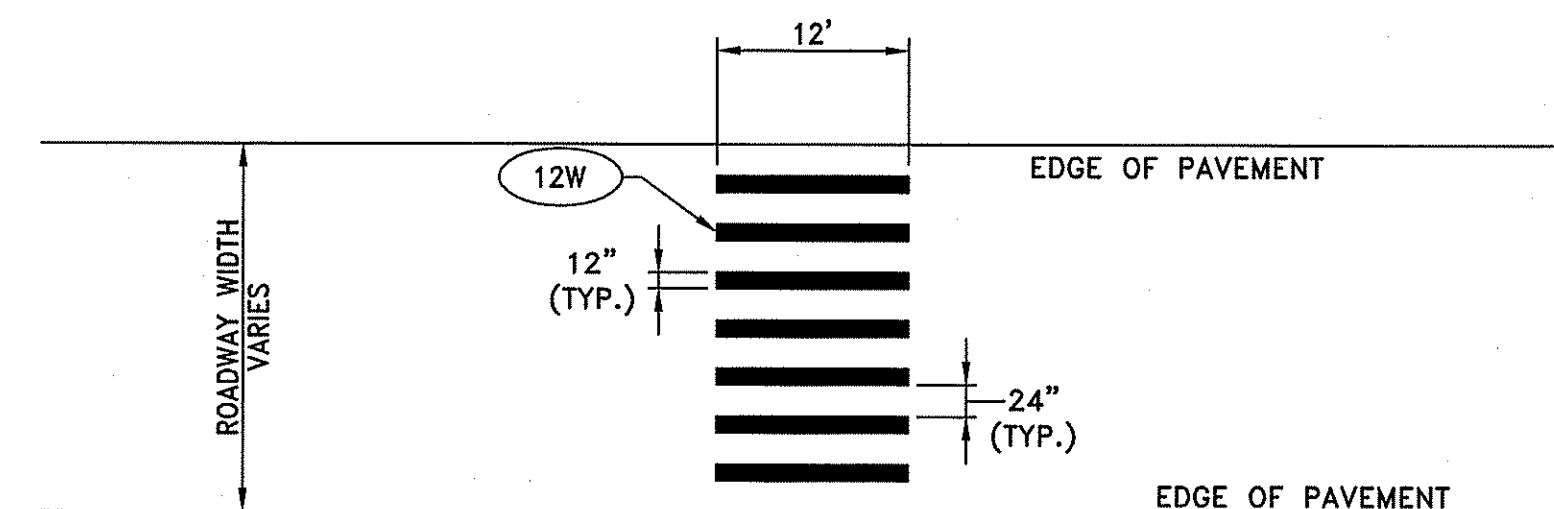
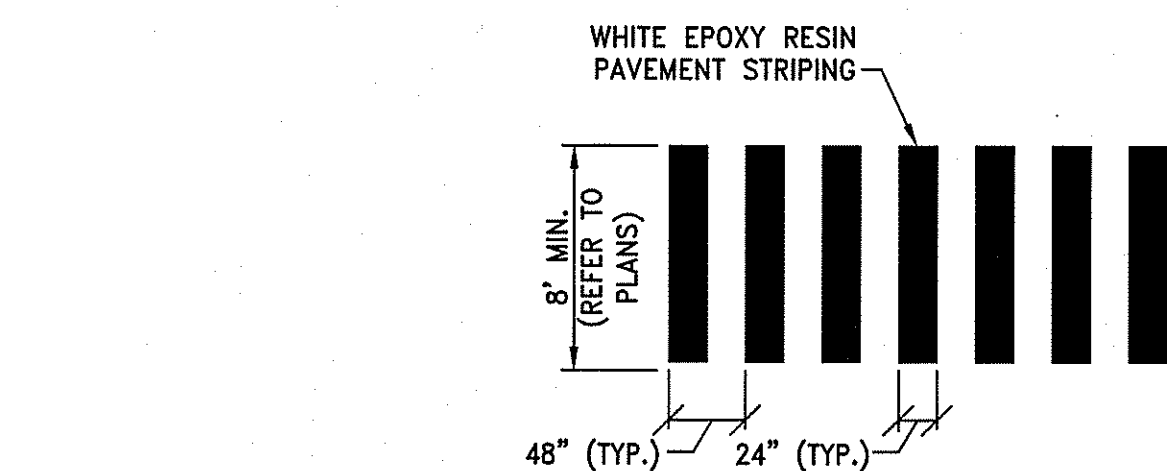
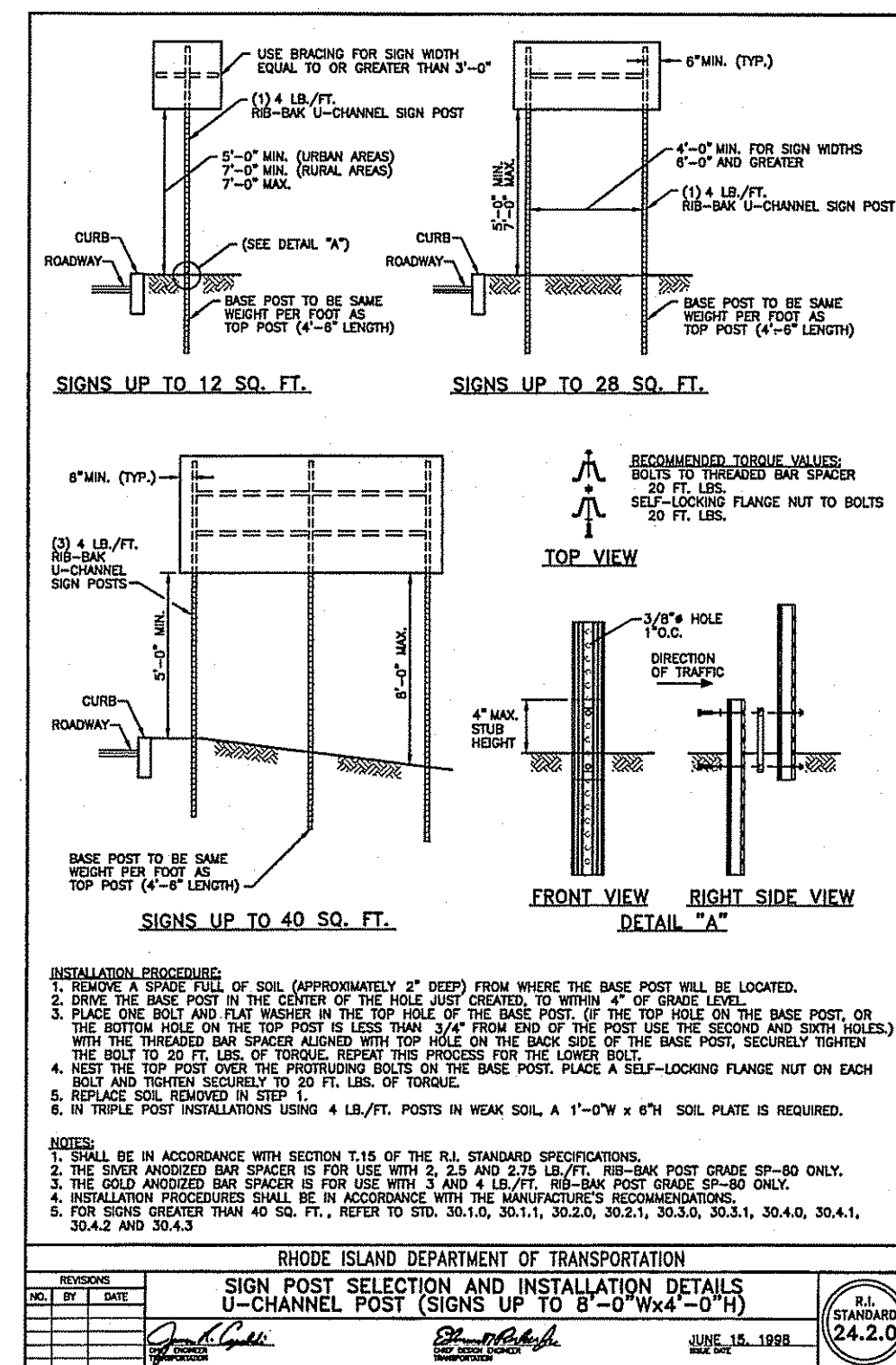
Approved By:

Date: 03/21/2018

Drawing No:

C5.04

Sheet No: 35 of 54



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 09 2019 FILE # 18-0063
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



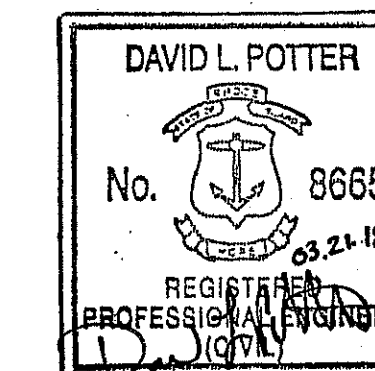
PARE CORPORATION
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TEL: 401-874-2725
AP 23-1, LOT 1 & AP 30, LOTS 24 & 27

DWG ISSUE & REVISION HISTORY

Stamp



Key Plan

Project Title:

URI/SOUTH COUNTY
BIKE PATH CONNECTOR

Drawing Title

DETAILS No. 3

Project No: 15180.03 Scale: AS NOTED

Drawn By:

Checked By:

Approved By:

Date: 03/21/2018

Drawing No:

C5.03

Sheet No: 34 Of 54



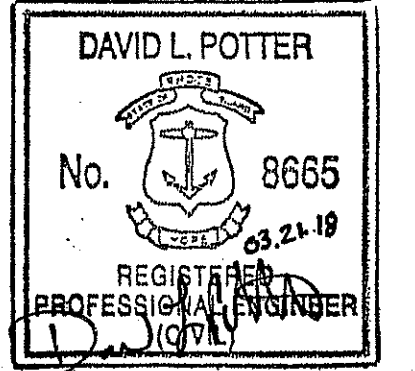
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401-334-4100

OWNER/APPLICANT:

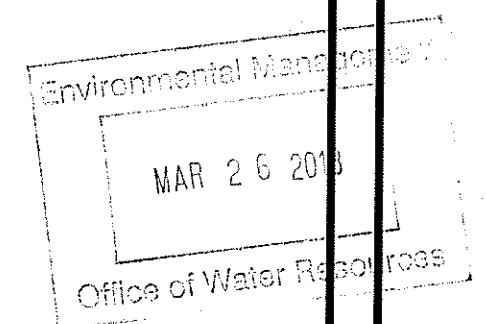
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TEL: 401-874-2725
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DWG ISSUE & REVISION HISTORY

Stamp



Key Plan



Project Title:

**URI/SOUTH COUNTY
BIKE PATH CONNECTOR**

Drawing Title:

DETAILS No. 5

Project No: 15180.03

Scale: AS NOTED

Drawn By:

Checked By:

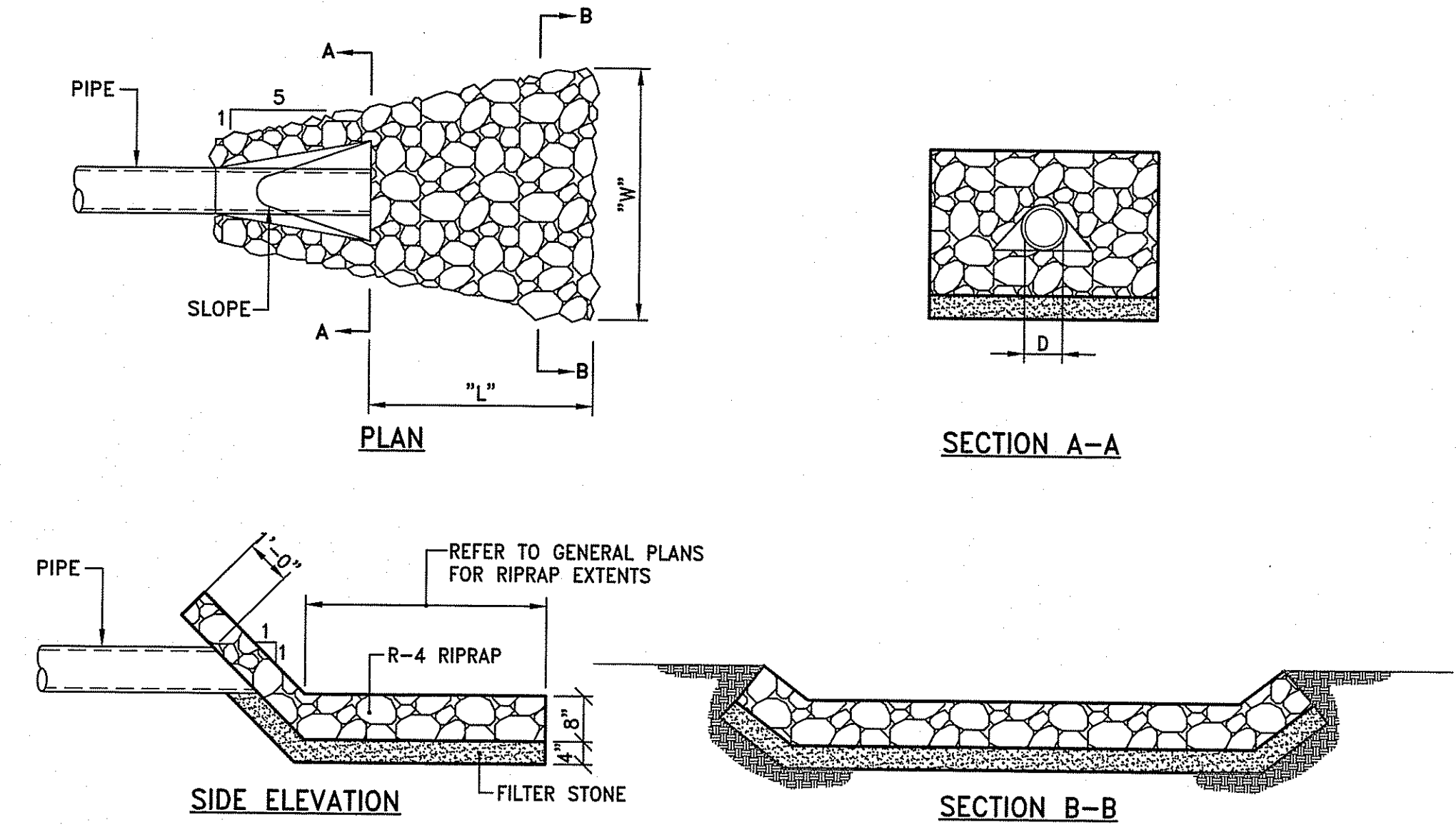
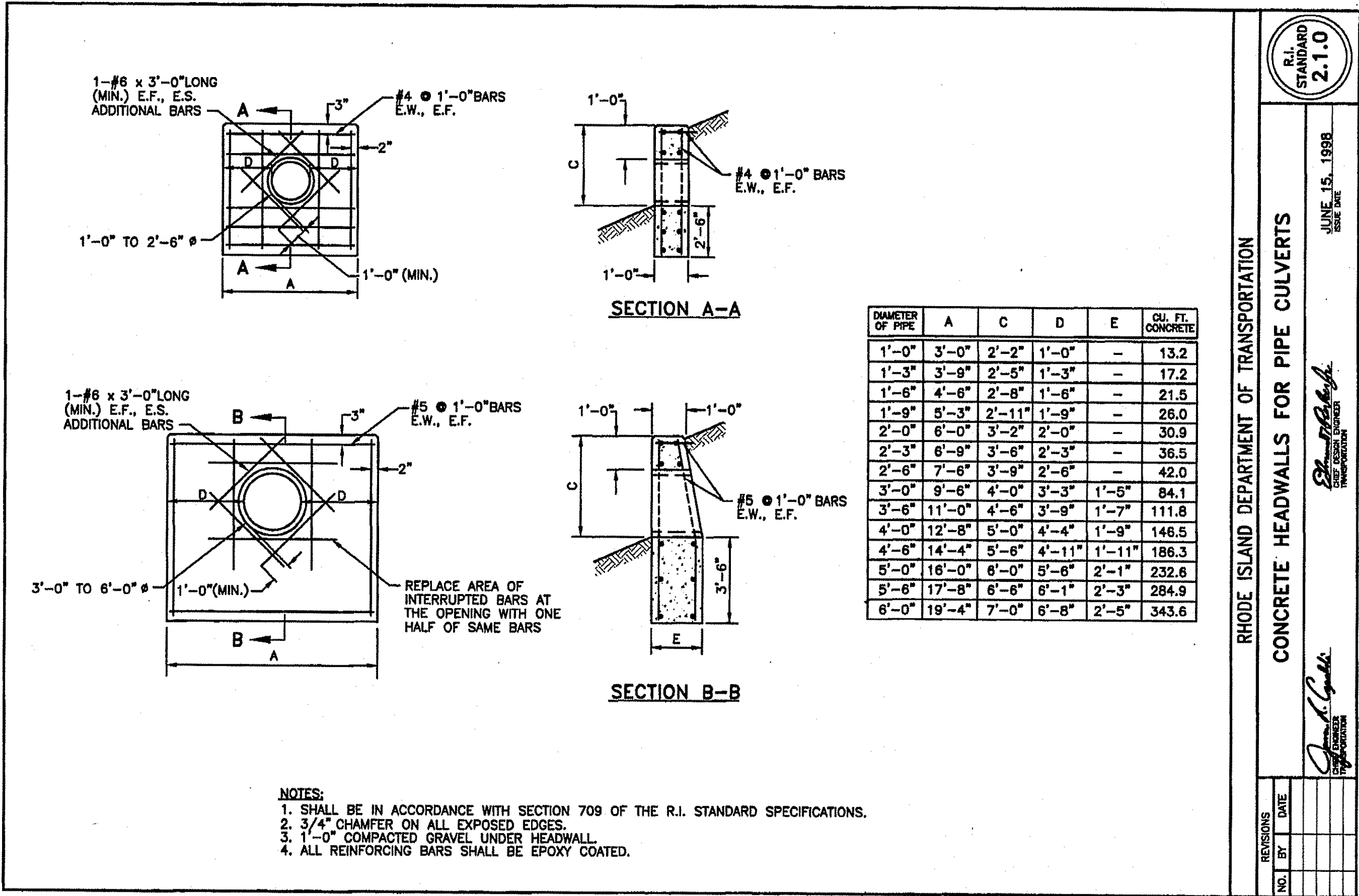
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Date: 03/21/2018

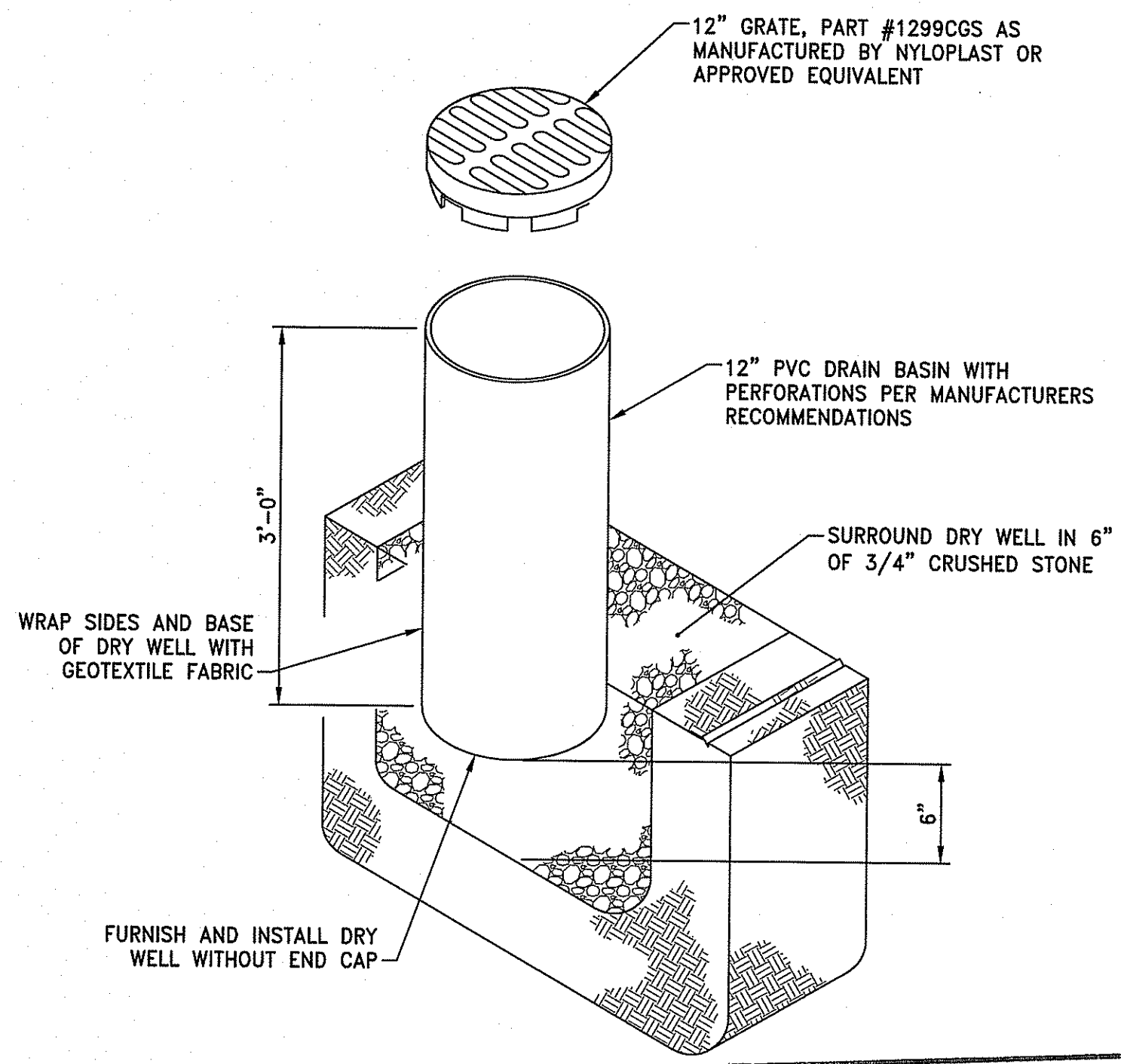
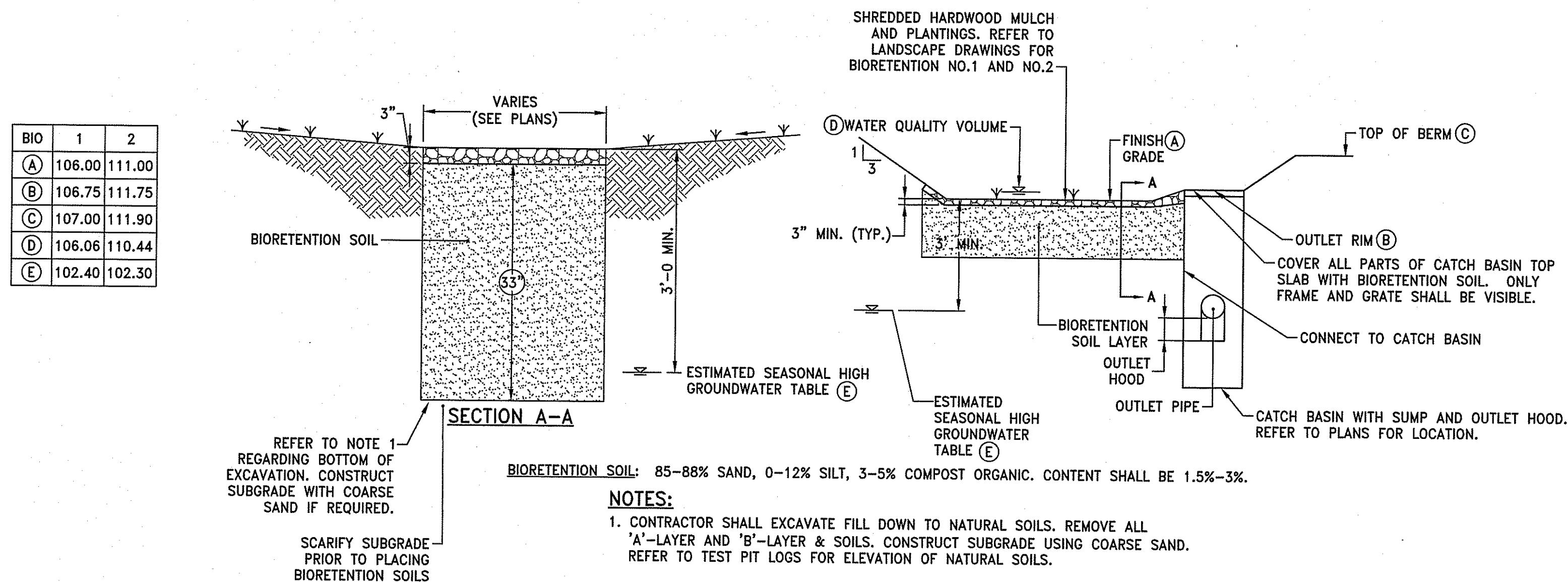
Drawing No:

C5.05

Sheet No: 36 Of 54



RLS LEVEL SPREADER
NOT TO SCALE



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Martin D. Wencel



Technical drawing of a gate assembly, showing dimensions and components. The drawing is a side elevation of a gate structure.

Dimensions:

- Overall width: 16" (TYP.)
- Overall height: 8'-0"
- Gate opening width: 2 1/4" (TYP.)
- Gate opening height: 4'-0" (TYP.)
- Drop bar height: 6" (TYP.)
- Ball top height: 2"
- Corner post height: 3"

Components and Labels:

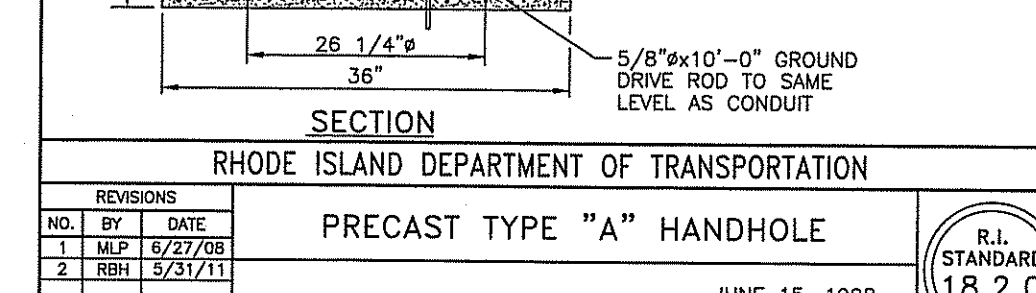
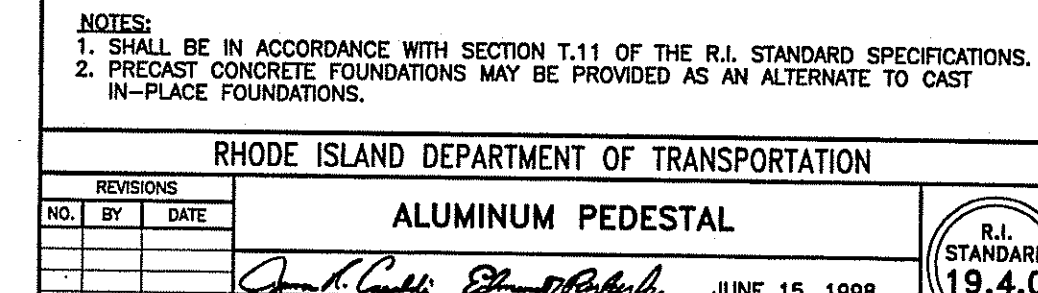
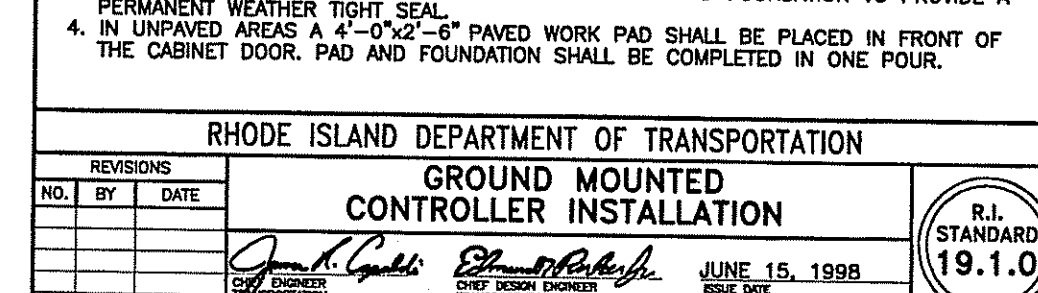
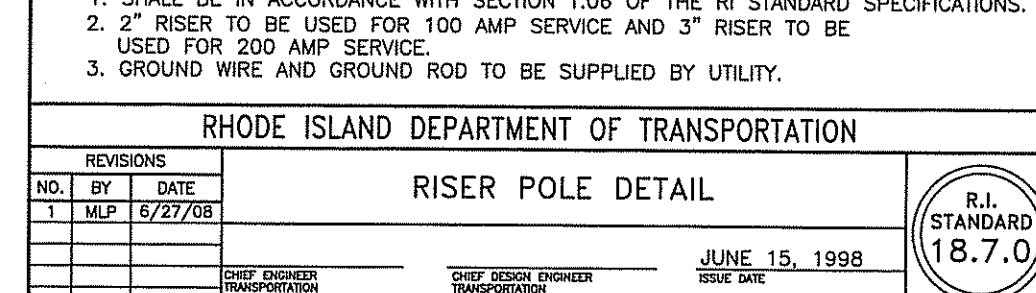
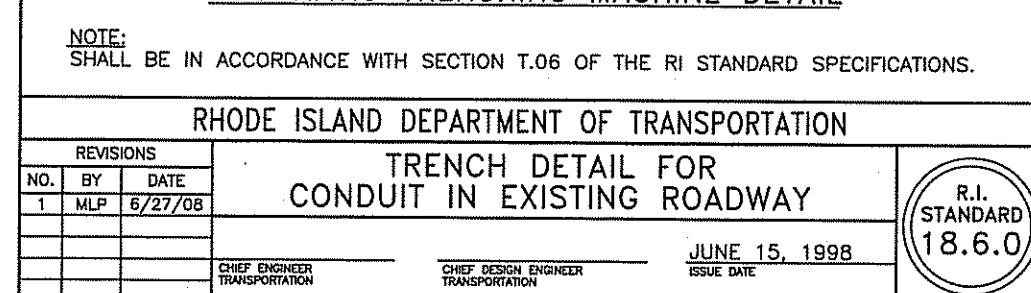
- BALL TOP
- REFER TO PLANS FOR OPENING
- 2 1/4" (TYP.)
- 3"
- CORNER POSTS (TYP.)
- SQ. GATE FRAME (TYP. 4 SIDES)
- TENSION BAR (TYP. 4 SIDES)
- DROP BAR
- FULCRUM LATCH w/STRIKE STRAP
- CHAIN LINK FABRIC TO MATCH ADJACENT FENCE, SEE PLANS FOR DETAILS.
- ALL JOINTS WELDED TO MAKE A SOLID FRAME (TYP.)
- 3000 PSI CONCRETE FOOTING (TYP.)

SWG SWING GATE DETAIL
NOT TO SCALE

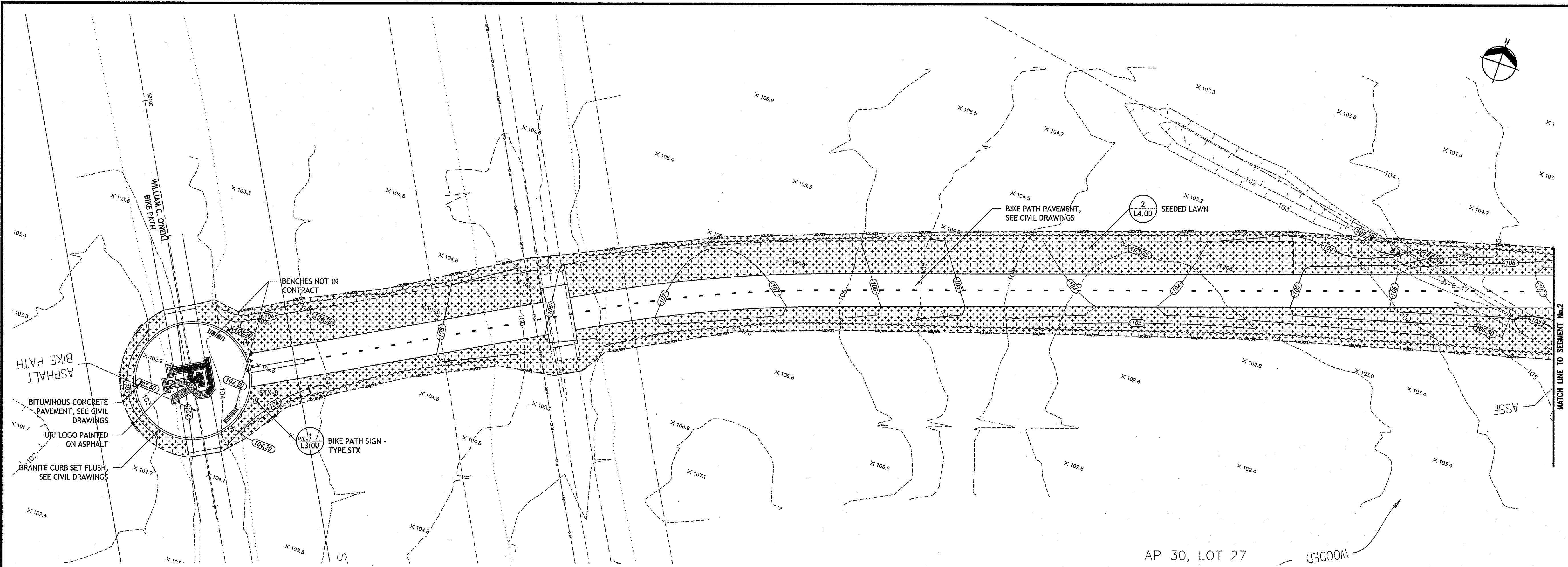
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Sheet No: 37 Of 54



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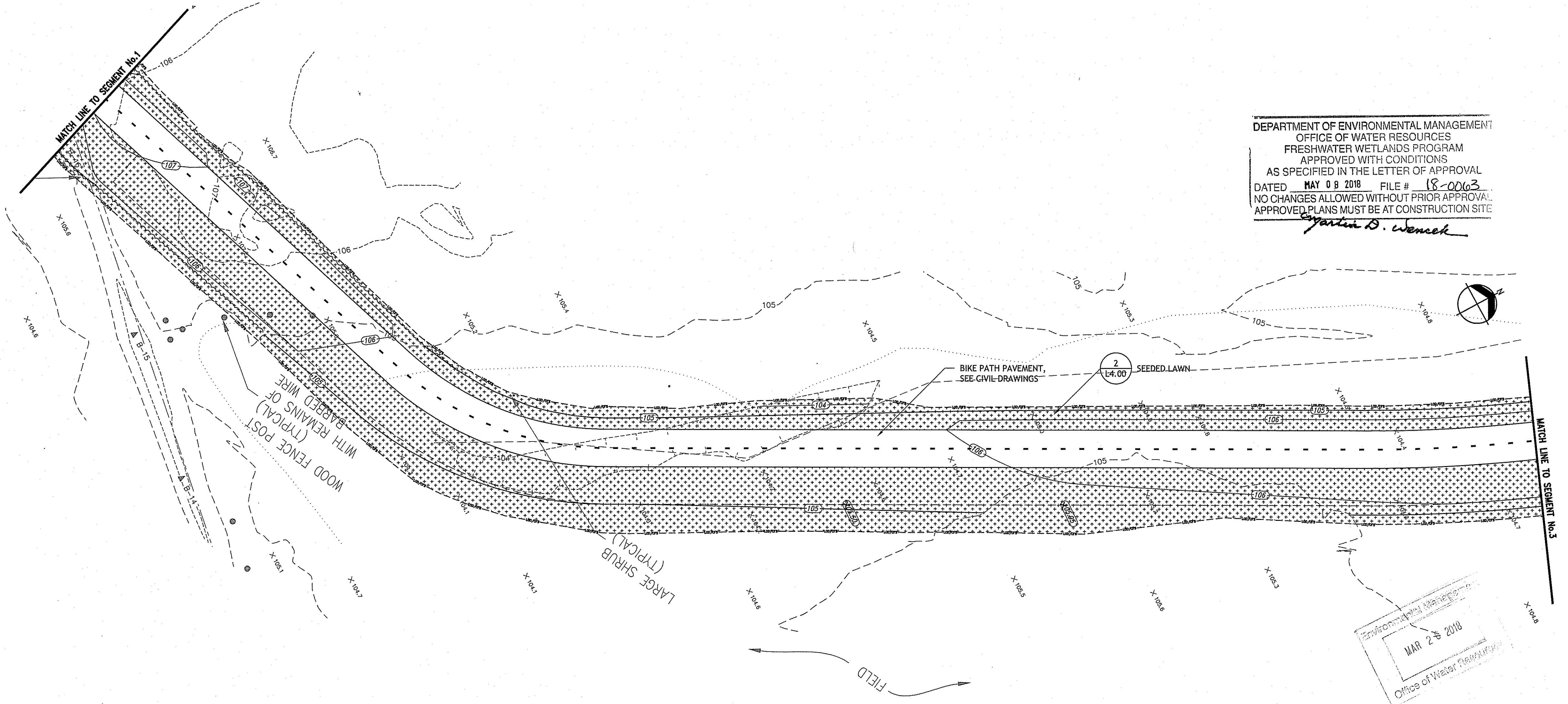
SEGMENT No.1

LEGEND

SYMBOL	DESCRIPTION
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---	CHAIN LINK FENCE, TYP. SEE CIVIL DRAWINGS
---	SPLIT RAIL FENCE, TYP.
[Pattern]	CONCRETE UNIT PAVERS
[Pattern]	CAST-IN-PLACE CONCRETE PAVING
[Pattern]	SEEDDED LAWN
[Pattern]	NATIVE MESIC MEADOW SEED MIX
[Pattern]	NATIVE WET MEADOW SEED MIX
[Symbol]	BIKE PATH SIGN (DETAIL 1/L3.00)

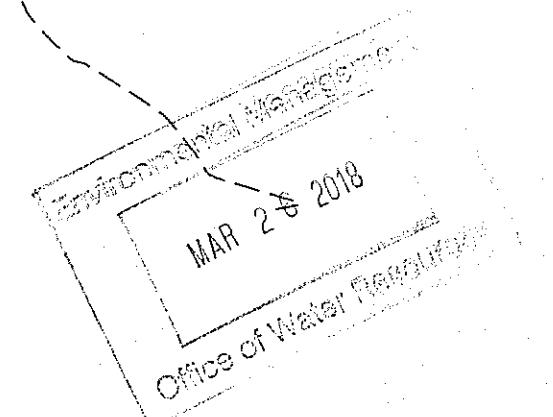
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- SEE CIVIL DRAWINGS FOR PAVEMENT PLANS AND DETAILS.



SEGMENT No.2

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Mark O. Dawson

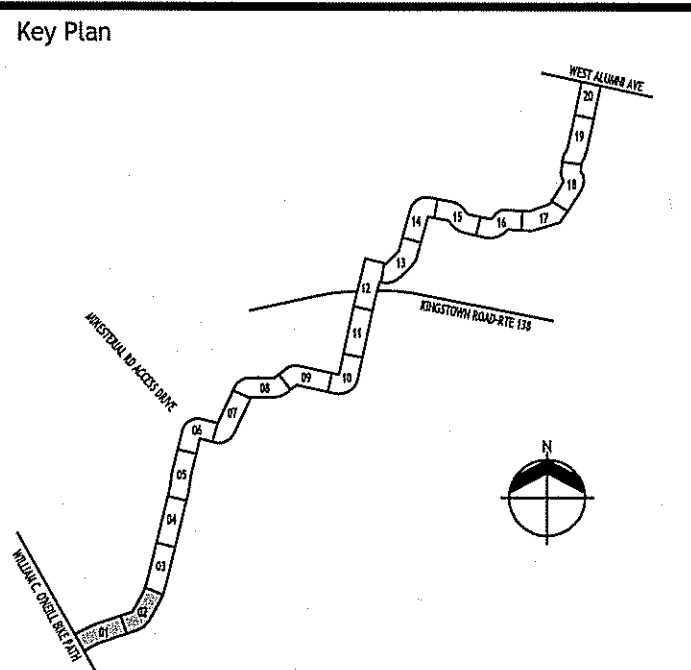
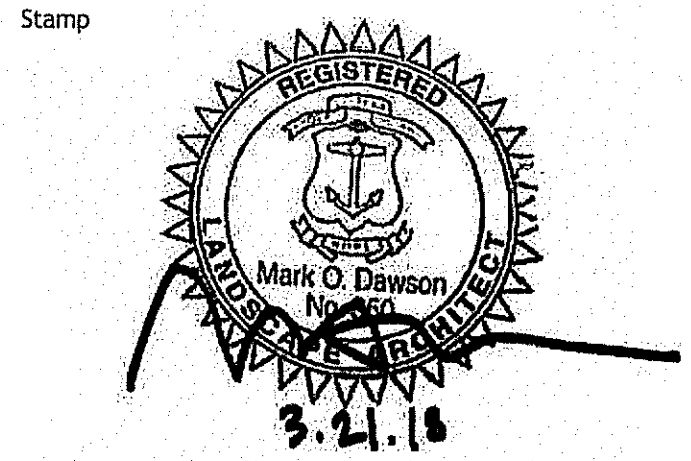


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OFFICE OF CAPITAL PROJECTS
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DWG ISSUE & REVISION HISTORY



Project Title:
**URI/SOUTH COUNTY
BIKE PATH CONNECTOR**

Drawing Title:
**PLANTING,
SITE FURNISHINGS &
SIGNAGE PLAN**

Project No: 56173.02 Scale: 1" = 20'-0"
Drawn By: SW, KS, GCL
Checked By: RM
Approved By: CB
Date: 03/21/2018

Drawing No:
L1.01
Sheet No: 38 Of 54



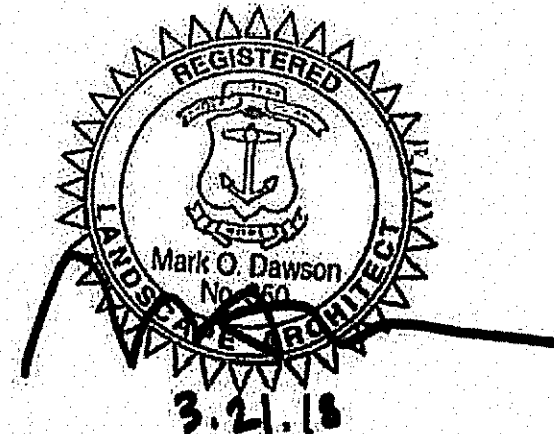
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ENGINEERS - SCIENTISTS - PLANNERS
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OWNER/APPLICANT:

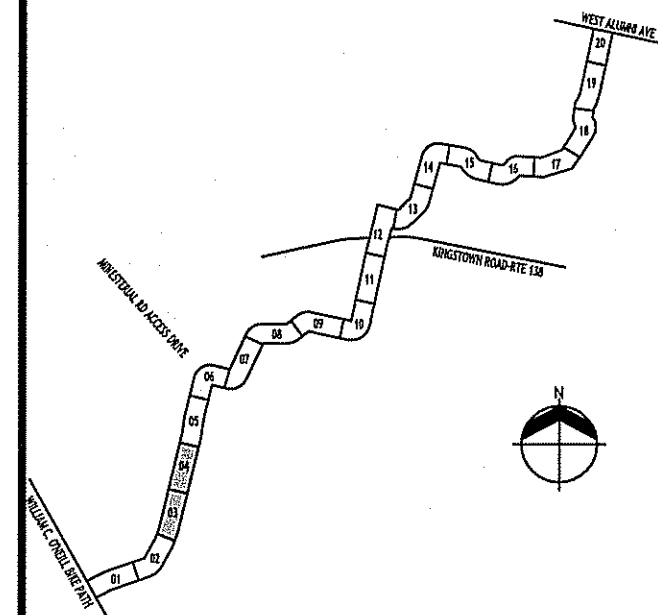
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TEL: 401-874-2725

DWG ISSUE & REVISION HISTORY

Stamp



Key Plan



Project Title:

URI/SOUTH COUNTY
BIKE PATH CONNECTOR

Drawing Title:

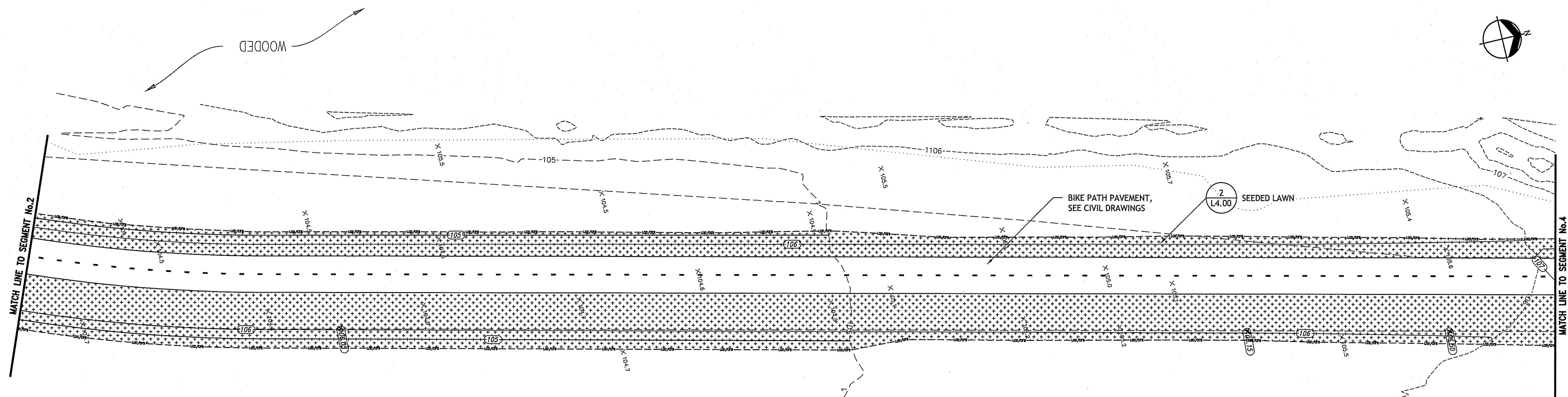
PLANTING,
SITE FURNISHINGS &
SIGNAGE PLAN

Project No: 56173.02 Scale: 1" = 20'-0"
Drawn By: SW, KS, GCL
Checked By: RM
Approved By: CB
Date: 03/21/2018

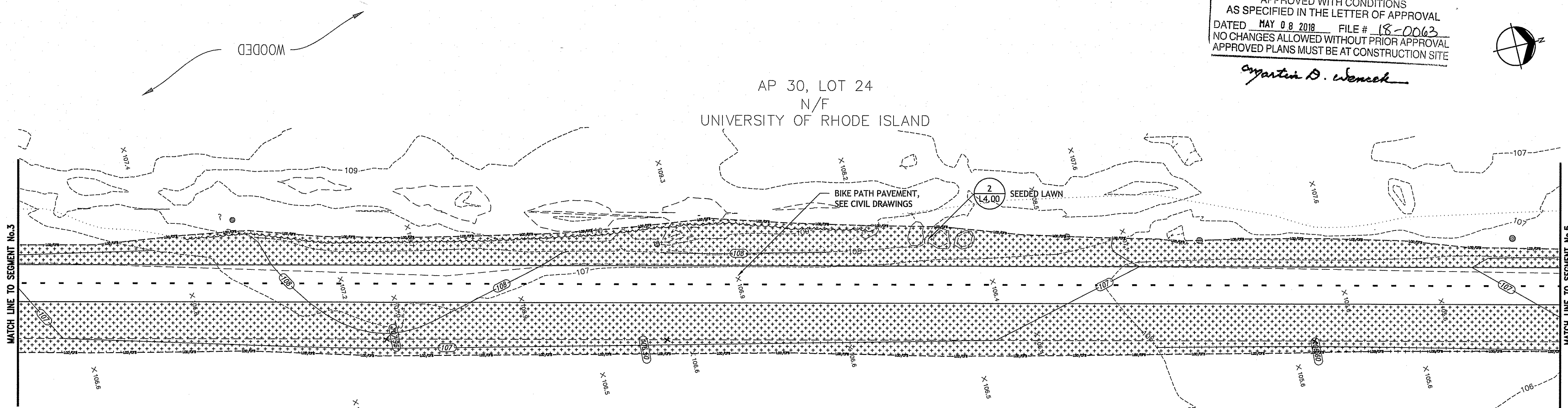
Drawing No:

L1.02

Sheet No: 39 Of 54



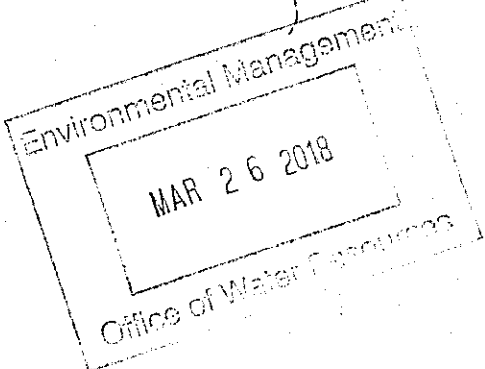
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SEGMENT No.4

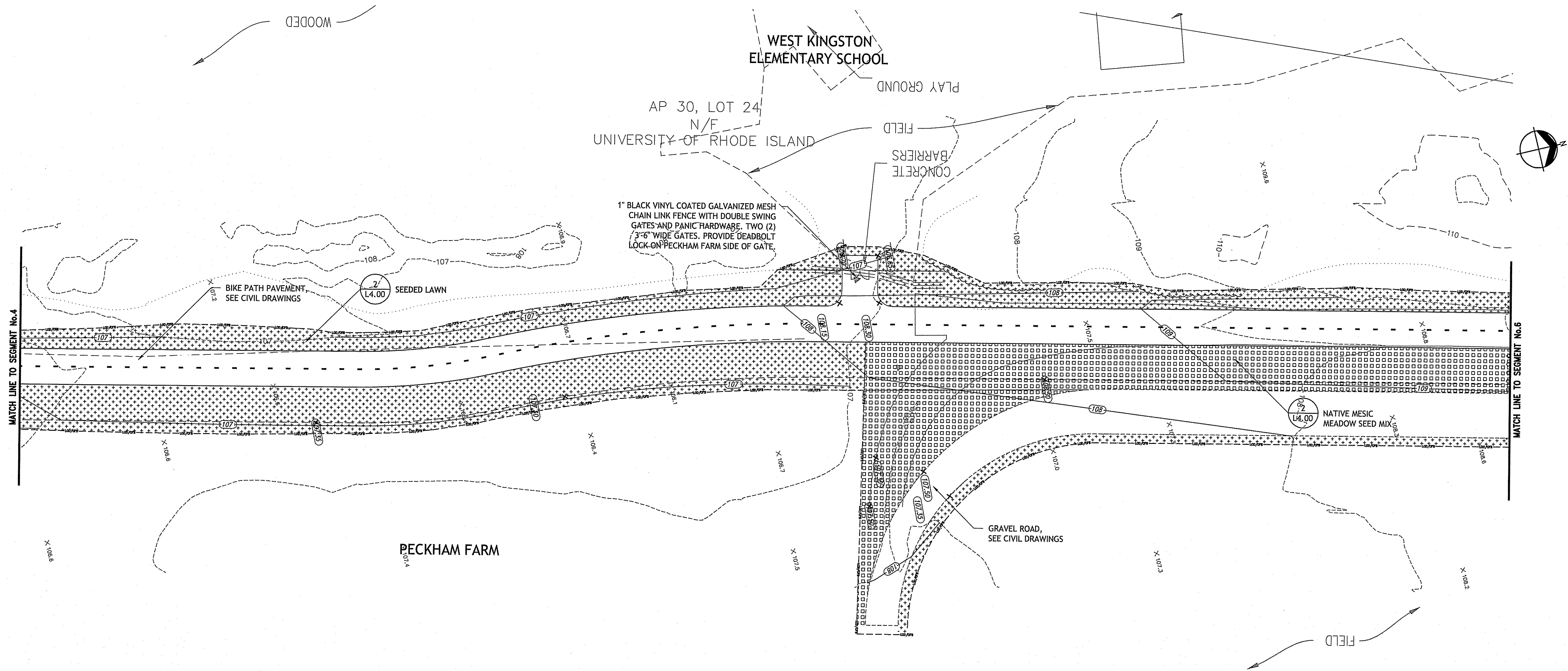
LEGEND	
SYMBOL	DESCRIPTION
	LIMIT OF DISTURBANCE / COMPOST FILTER SOCK PROPERTY LINE
	CHAIN LINK FENCE, TYP. SEE CIVIL DRAWINGS
	SPLIT RAIL FENCE, TYP.
	CONCRETE UNIT PAVERS
	CAST-IN-PLACE CONCRETE PAVING
	SEEDDED LAWN
	NATIVE MESIC MEADOW SEED MIX
	NATIVE WET MEADOW SEED MIX
	BIKE PATH SIGN (DETAIL 1/L3.00)
PLANTING, SITE FURNISHINGS, AND SIGNAGE:	
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3. ALL DISTURBED AREAS SHALL BE LOAMED AND RESEEDDED, UNLESS OTHERWISE NOTED.	
4. SEE CIVIL DRAWINGS FOR PAVEMENT PLANS AND DETAILS.	

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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DATED MAY 08 2018 FILE # 18-0063
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Christopher D. Wenzel



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LEGEND	
SYMBOL	DESCRIPTION
	LIMIT OF DISTURBANCE / COMPOST FILTER SOCK PROPERTY LINE
	CHAIN LINK FENCE, TYP. SEE CIVIL DRAWINGS
	SPLIT RAIL FENCE, TYP.
	CONCRETE UNIT PAVERS
	CAST-IN-PLACE CONCRETE PAVING
	SEEDED LAWN
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SEGMENT No.5

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Signature

Environmental Management
MAR 26 2018
Office of Water Resources

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DWG ISSUE & REVISION HISTORY

Stamp

Key Plan

Project Title:

URI/SOUTH COUNTY
BIKE PATH CONNECTOR

Drawing Title:

PLANTING,
SITE FURNISHINGS &
SIGNAGE PLAN

Project No: 56173.02 Scale: 1" = 20'-0"

Drawn By: SW, KS, GCL

Checked By: RM

Approved By: CB

Date: 03/21/2018

Drawing No:

L1.03

Sheet No: 40 Of 54



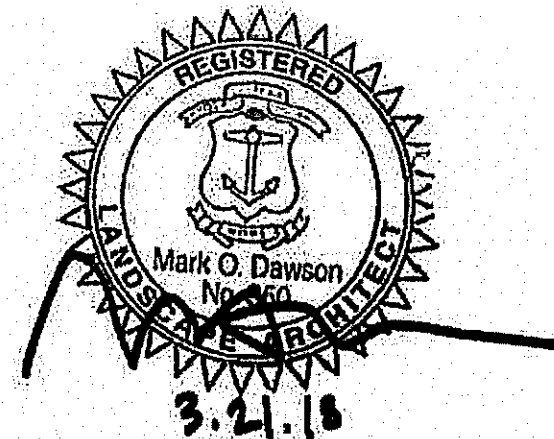
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401-334-4100

OWNER/APPLICANT:

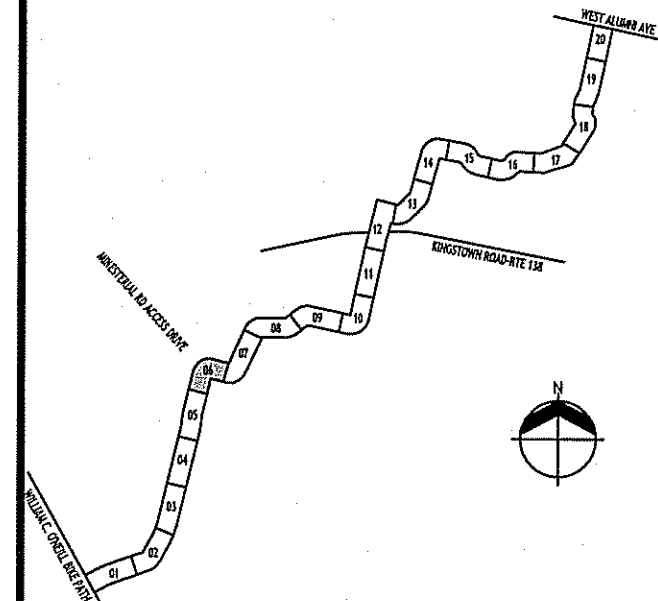
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DWG ISSUE & REVISION HISTORY

Stamp



Key Plan



Project Title:

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Drawing Title:

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Project No: 56173.02 Scale: 1" = 20'-0"

Drawn By: SW, KS, GCL

Checked By: RM

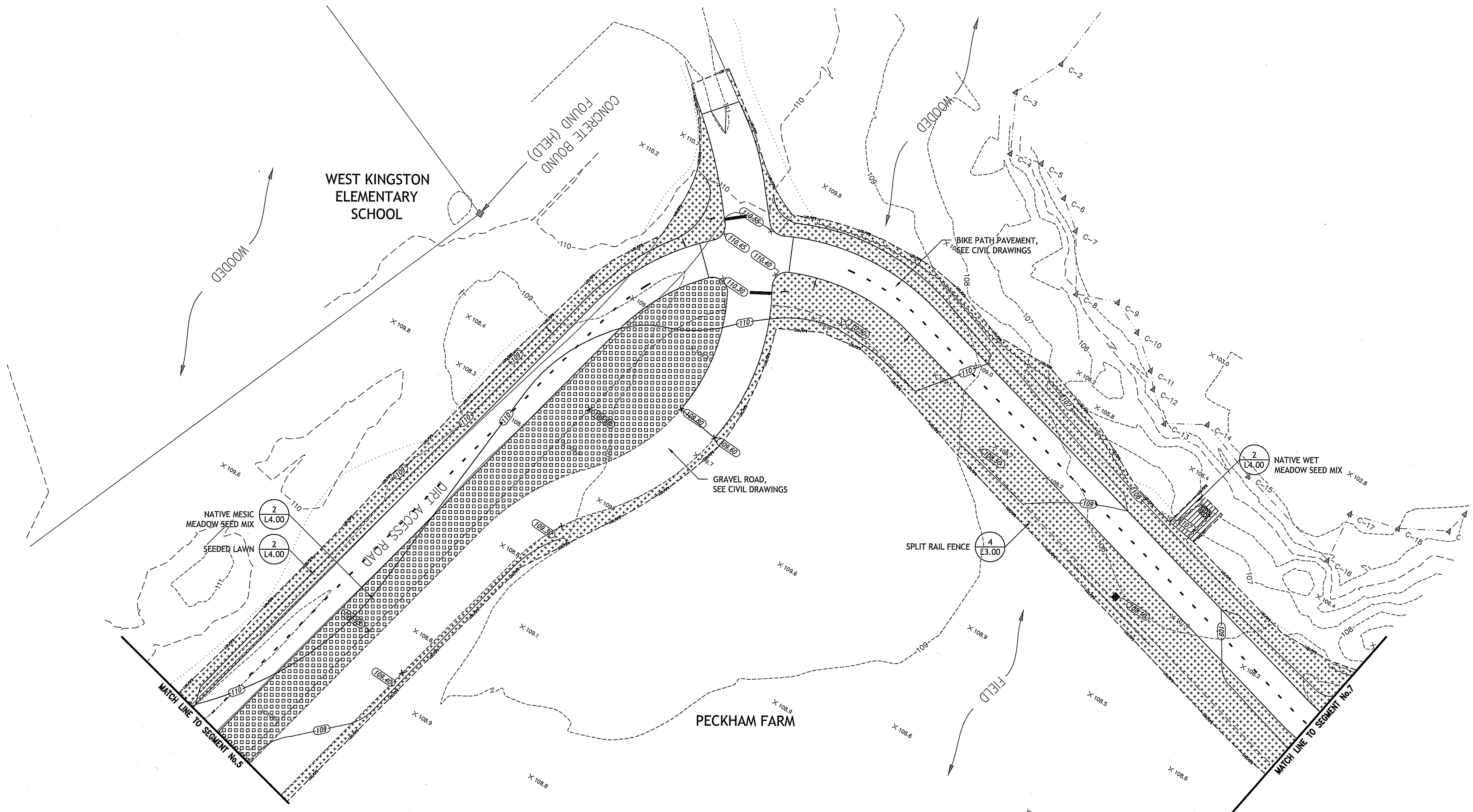
Approved By: CB

Date: 03/21/2018

Drawing No:

L1.04

Sheet No: 41 Of 54



SEGMENT No.6

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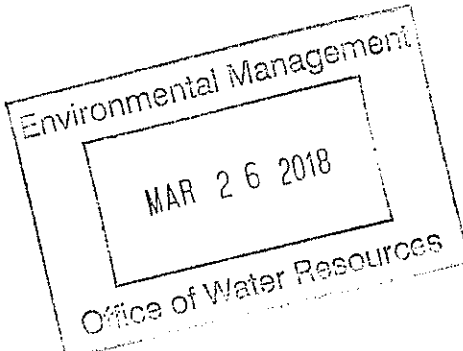
SYMBOL	DESCRIPTION
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	CHAIN LINK FENCE, TYP. SEE CIVIL DRAWINGS
	SPLIT RAIL FENCE, TYP.
	CONCRETE UNIT PAVERS
	CAST-IN-PLACE CONCRETE PAVING
	SEEDDED LAWN
	NATIVE MESIC MEADOW SEED MIX
	NATIVE WET MEADOW SEED MIX
	BIKE PATH SIGN (DETAIL 1/L3.00)

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Christopher D. Wenczek



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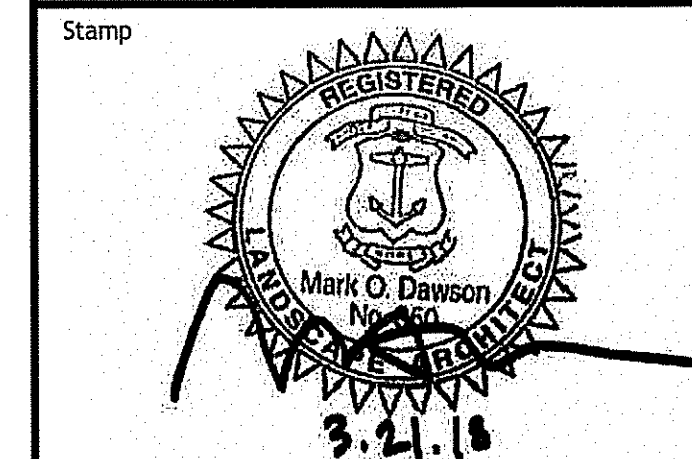


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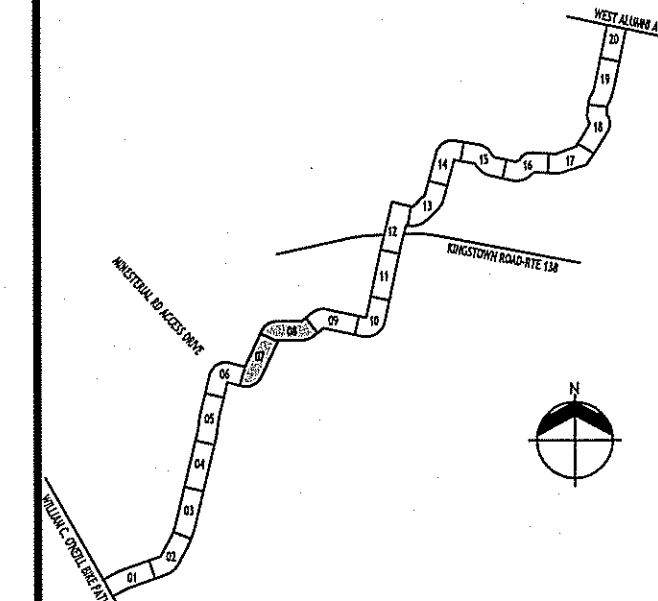
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DWG ISSUE & REVISION HISTORY



Key Plan



Project Title:

**URI/SOUTH COUNTY
BIKE PATH CONNECTOR**

Drawing Title:

**PLANTING,
SITE FURNISHINGS &
SIGNAGE PLAN**

Project No: 56173.02 Scale: 1" = 20'-0"
Drawn By: SW, KS, GCL
Checked By: RM
Approved By: CB
Date: 03/21/2018

Drawing No:

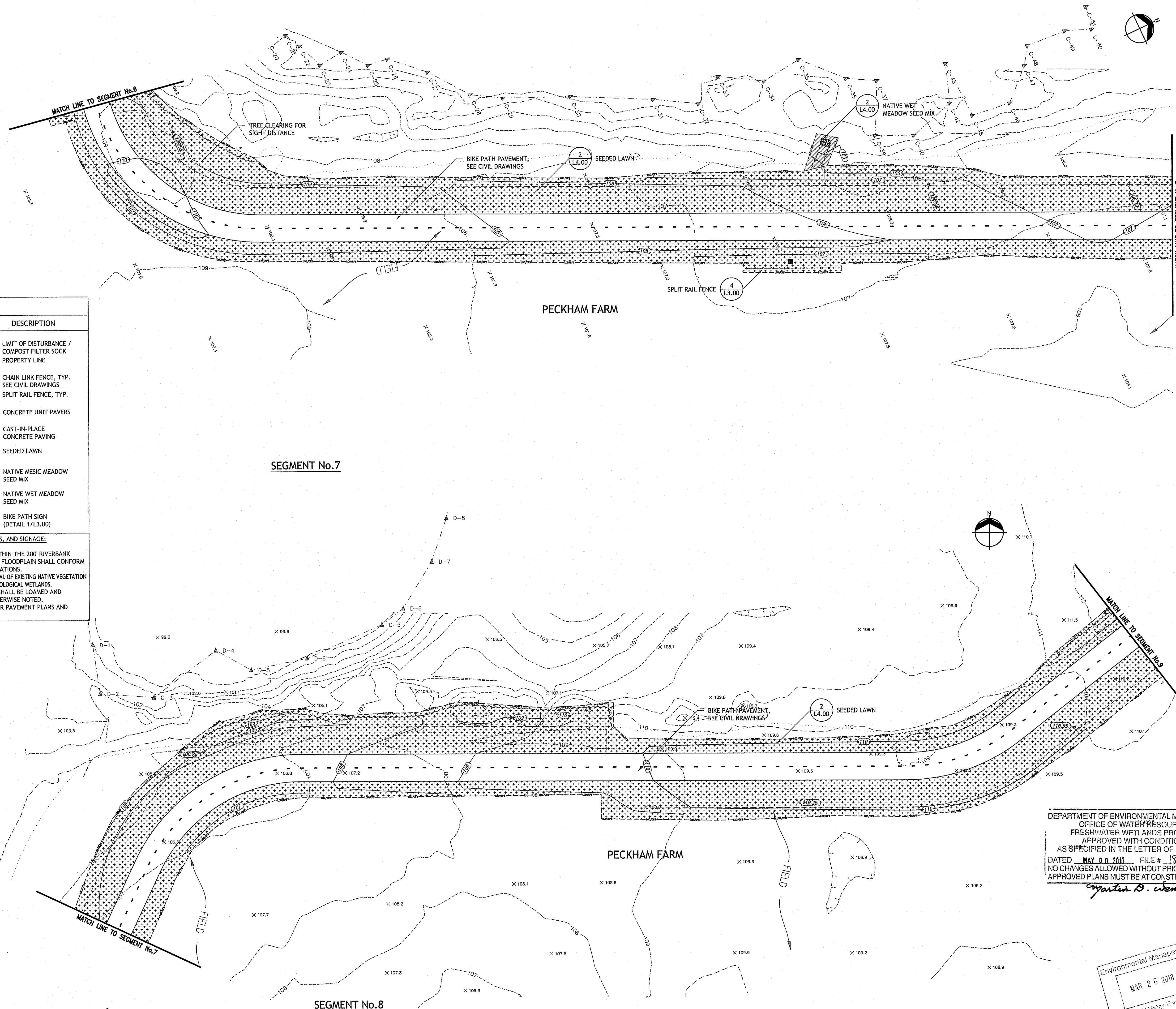
L1.05
Sheet No: 42 Of 54

LEGEND	
SYMBOL	DESCRIPTION
	LIMIT OF DISTURBANCE / COMPOST FILTER SOCK PROPERTY LINE
	CHAIN LINK FENCE, TYP. SEE CIVIL DRAWINGS
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	CAST-IN-PLACE CONCRETE PAVING
	SEEDED LAWN
	NATIVE MESIC MEADOW SEED MIX
	NATIVE WET MEADOW SEED MIX
	BIKE PATH SIGN (DETAIL 1/L3.00)

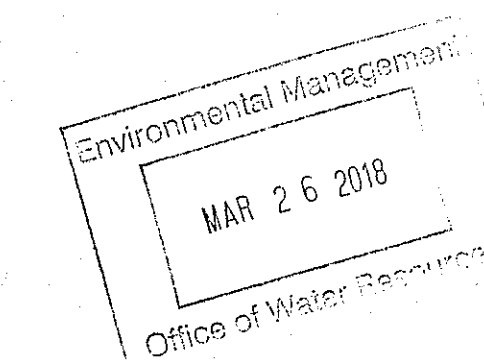
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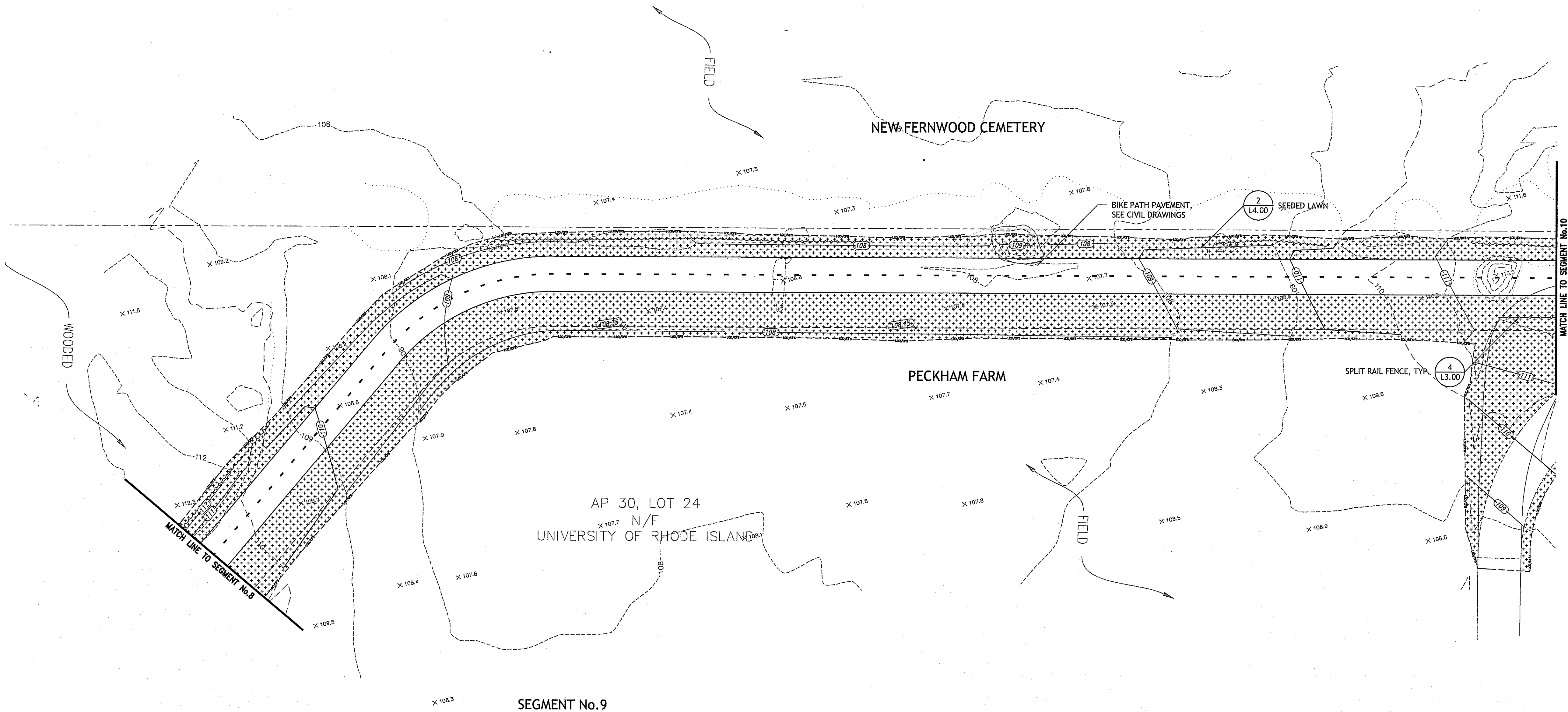


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Stephen D. Wenzel



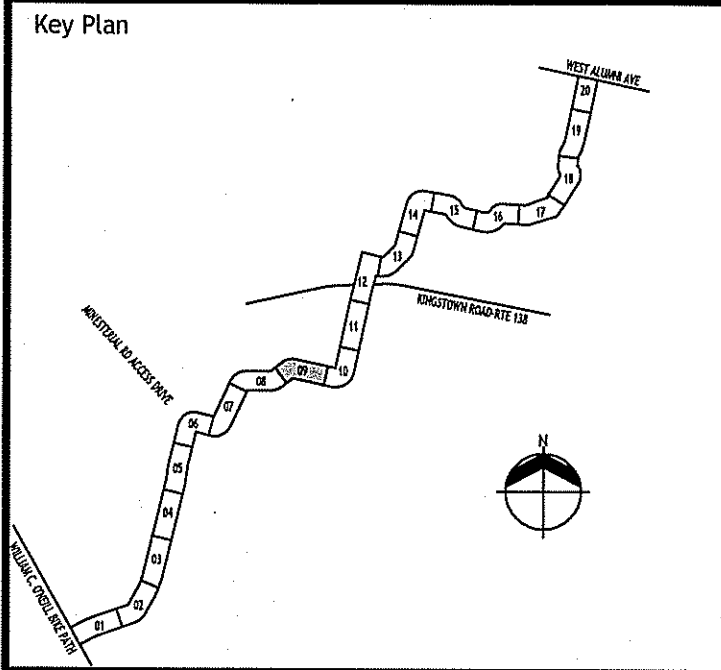
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LEGEND	
SYMBOL	DESCRIPTION
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3. ALL DISTURBED AREAS SHALL BE LOAMED AND RESEEDDED, UNLESS OTHERWISE NOTED.	
4. SEE CIVIL DRAWINGS FOR PAVEMENT PLANS AND DETAILS.	

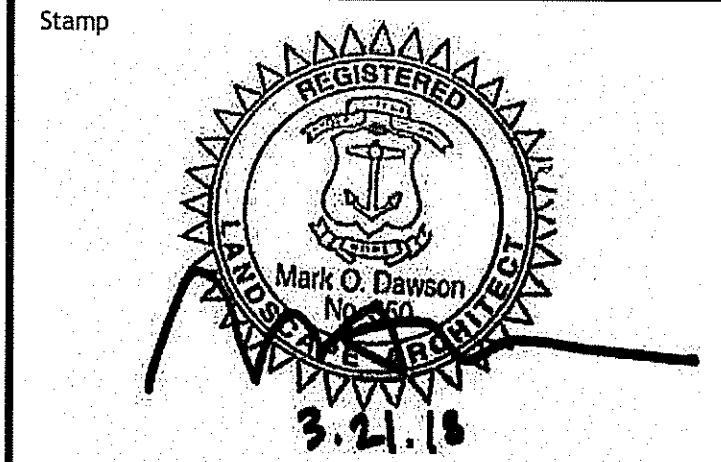


DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 09 2018 FILE # 18-001a3
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Christopher D. Wenzel

Environmental Management
MAR 26 2018
Office of Water Resources



Project Title:	
URI/SOUTH COUNTY BIKE PATH CONNECTOR	
Drawing Title:	
PLANTING, SITE FURNISHINGS & SIGNAGE PLAN	
Project No:	56173.02
Scale:	1" = 20'-0"
Drawn By:	SW, KS, GCL
Checked By:	RM
Approved By:	CB
Date:	03/21/2018
Drawing No:	L1.06
Sheet No:	43 Of 54



SASAKI

64 PLEASANT STREET WATERTOWN MA 02472 USA
P 617 926 3300 F 617 924 2748 W SASAKI.COM



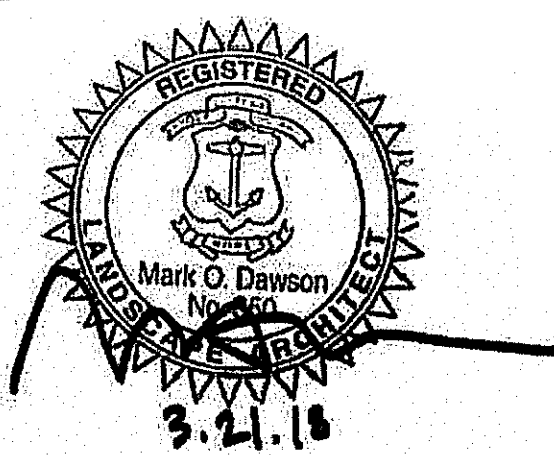
PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

OWNER/APPLICANT:

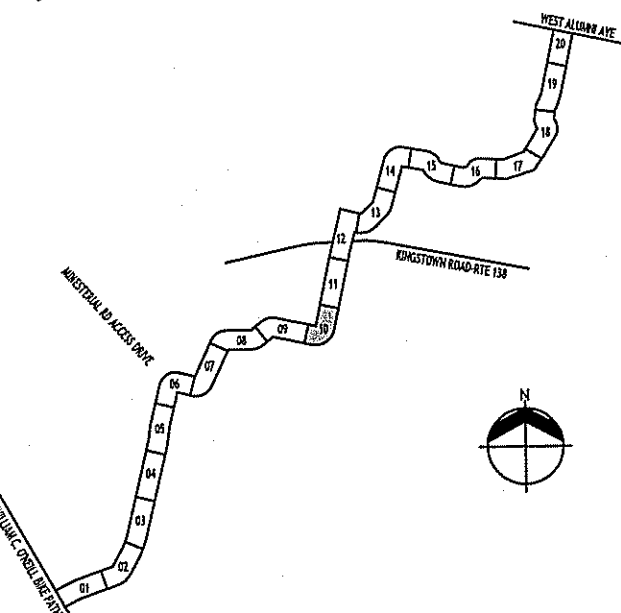
UNIVERSITY OF RHODE ISLAND
OFFICE OF CAPITAL PROJECTS
60 TOOTELL ROAD
KINGSTON, RHODE ISLAND
TEL: 401-874-2725

DWG ISSUE & REVISION HISTORY

Stamp



Key Plan



Project Title:

URI/SOUTH COUNTY
BIKE PATH CONNECTOR

Drawing Title:

PLANTING,
SITE FURNISHINGS &
SIGNAGE PLAN

Project No: 56173.02 Scale: 1" = 20'-0"

Drawn By: SW, KS, GCL

Checked By: RM

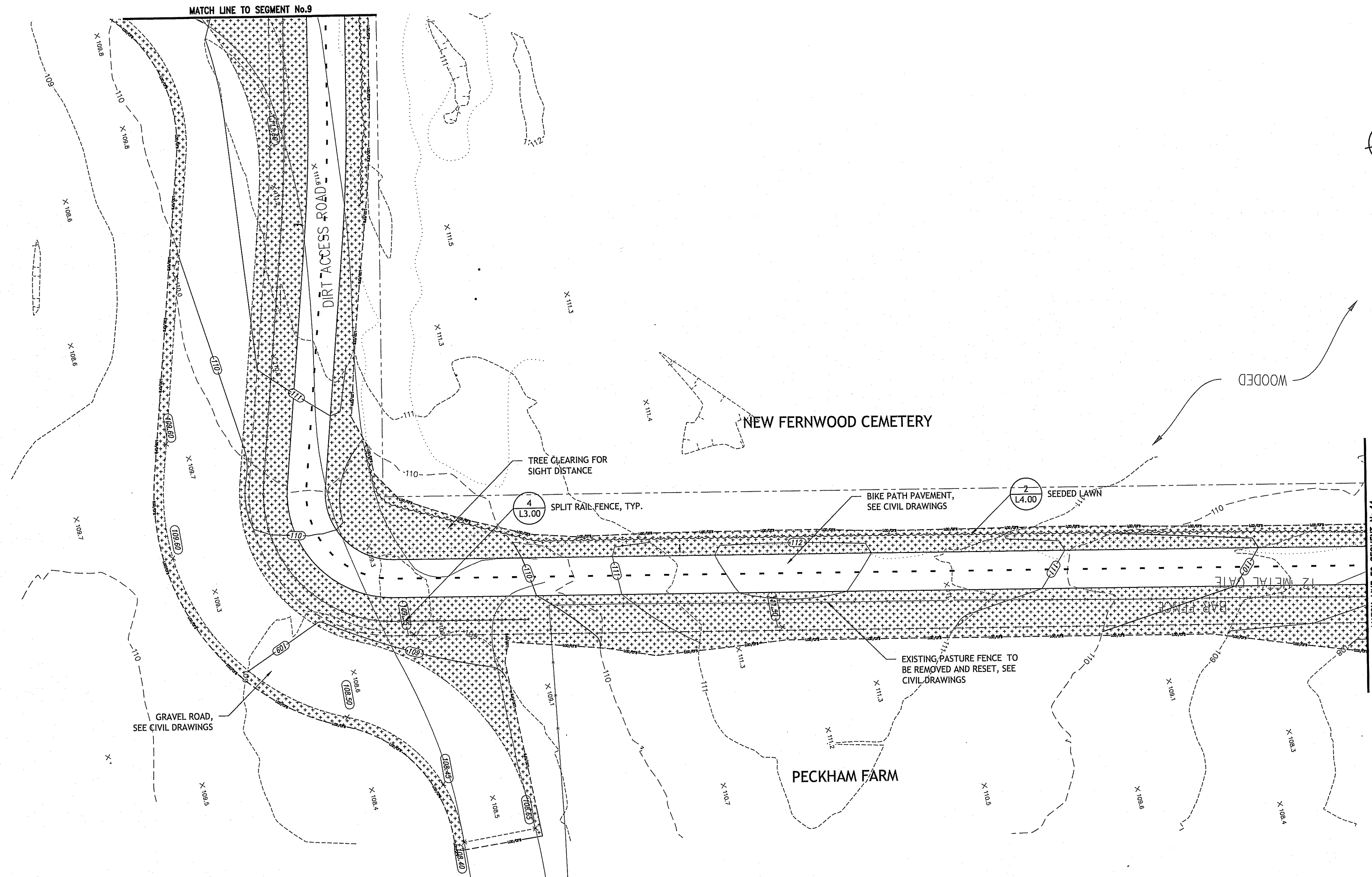
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Date: 03/21/2018

Drawing No:

L1.07

Sheet No: 44 Of 54

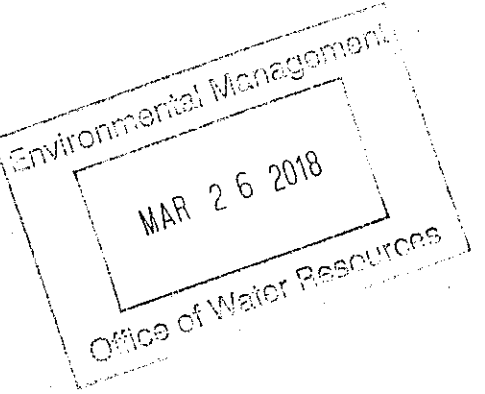


SEGMENT No.10

LEGEND	
SYMBOL	DESCRIPTION
	LIMIT OF DISTURBANCE / COMPOST FILTER SOCK PROPERTY LINE
	CHAIN LINK FENCE, TYP. SEE CIVIL DRAWINGS
	SPLIT RAIL FENCE, TYP.
	CONCRETE UNIT PAVERS
	CAST-IN-PLACE CONCRETE PAVING
	SEEDING LAWN
	NATIVE MESIC MEADOW SEED MIX
	NATIVE WET MEADOW SEED MIX
	BIKE PATH SIGN (DETAIL 1/L3.00)
PLANTING, SITE FURNISHINGS, AND SIGNAGE:	
1. ALL CONSTRUCTION WITHIN THE 200' RIVERBANK SETBACK AND 100 YEAR FLOODPLAIN SHALL CONFORM WITH ALL RIDEM REGULATIONS.	
2. THERE SHALL BE NO REMOVAL OF EXISTING NATIVE VEGETATION FROM THE AREAS WITHIN BIOLOGICAL WETLANDS.	
3. ALL DISTURBED AREAS SHALL BE LOAMED AND RESEEDING, UNLESS OTHERWISE NOTED.	
4. SEE CIVIL DRAWINGS FOR PAVEMENT PLANS AND DETAILS.	

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 08 2018 FILE # 18-0063
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Stephen D. Wenzel



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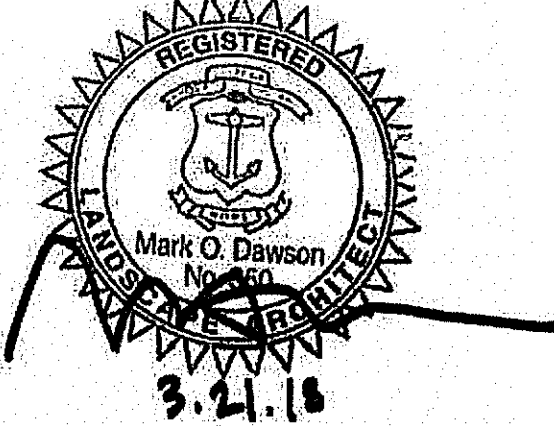
PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

OWNER/APPLICANT:

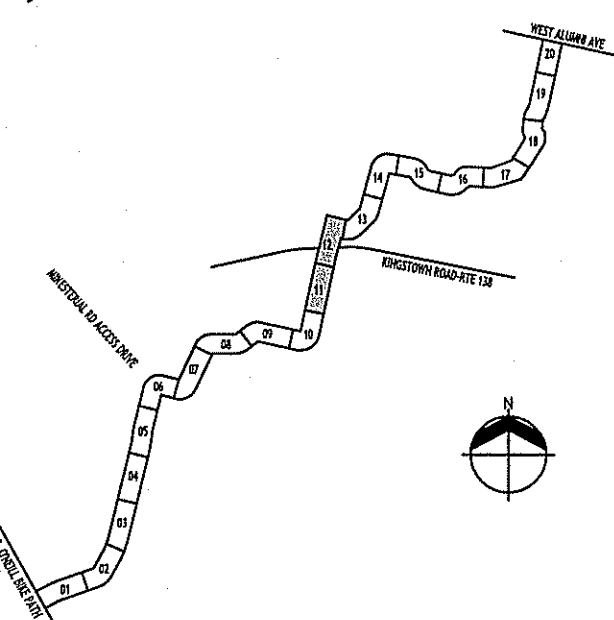
UNIVERSITY OF RHODE ISLAND
OFFICE OF CAPITAL PROJECTS
60 TOOTELL ROAD
KINGSTON, RHODE ISLAND
TEL: 401-874-2725

DWG ISSUE & REVISION HISTORY

Stamp



Key Plan



Project Title:

URI/SOUTH COUNTY
BIKE PATH CONNECTOR

Drawing Title:

PLANTING,
SITE FURNISHINGS &
SIGNAGE PLAN

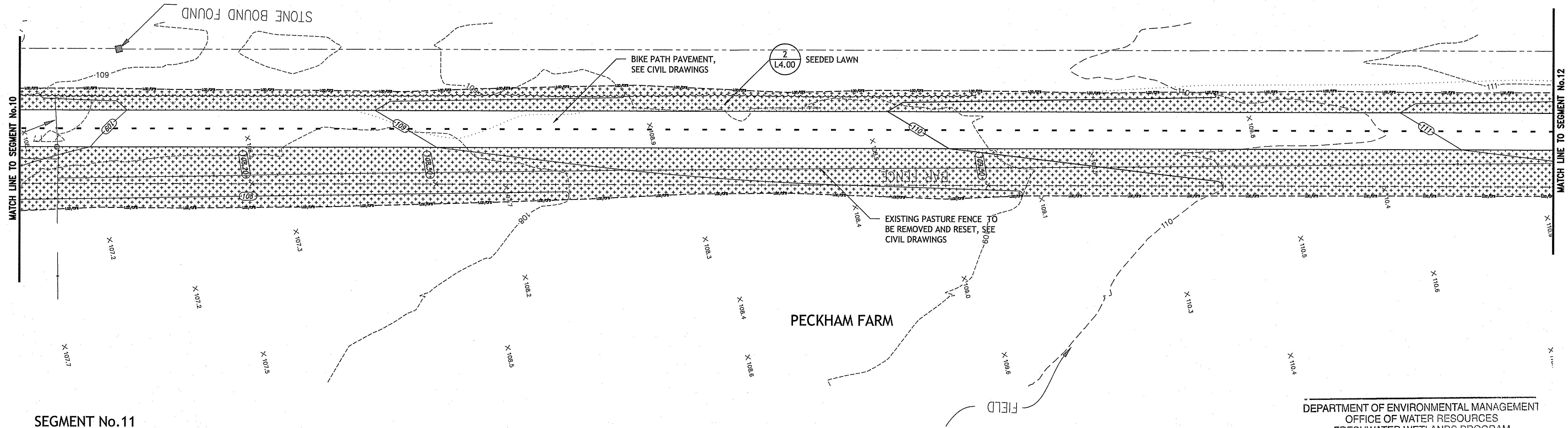
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Checked By: RM
Approved By: CB
Date: 03/21/2018

Drawing No:

L1.08

Sheet No: 45 Of 54

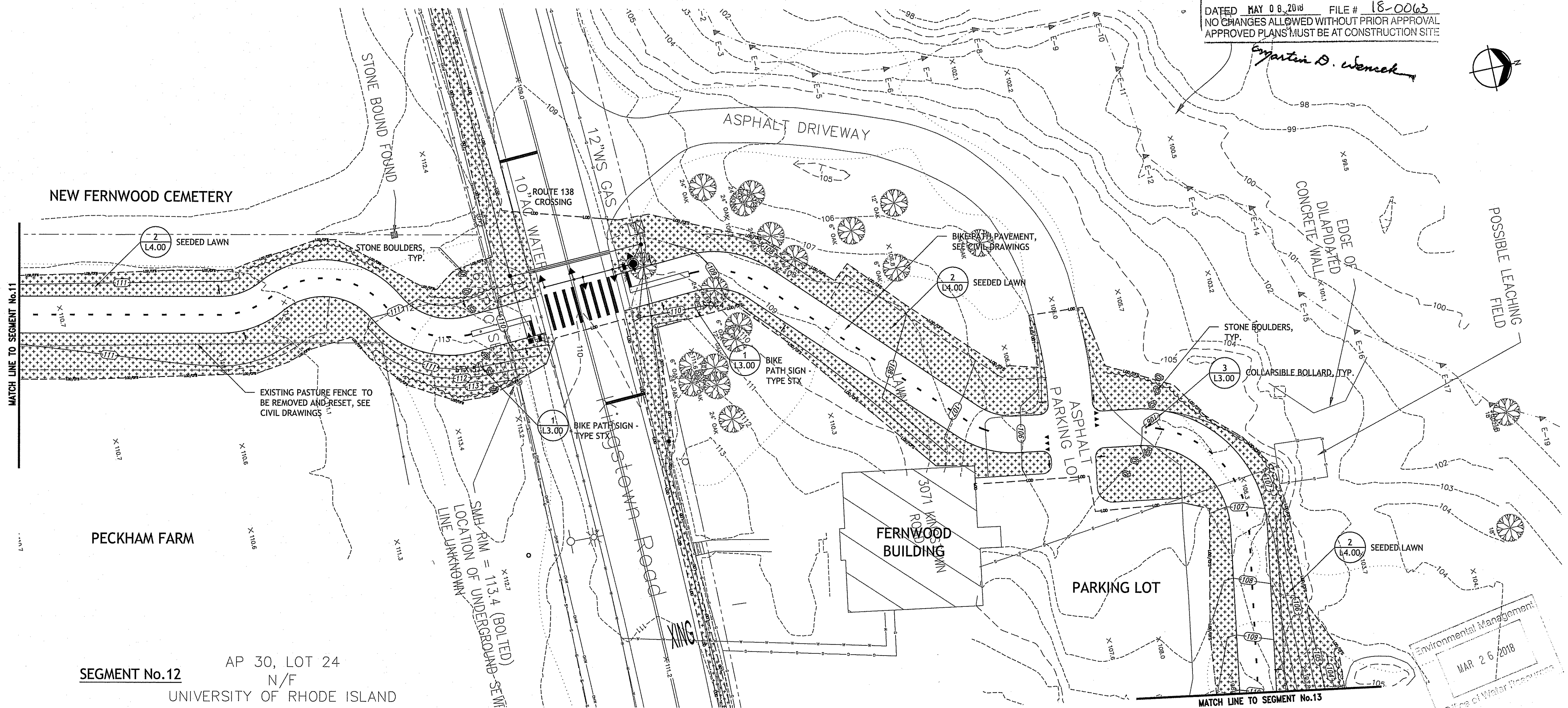
AP 22-6, LOT 25
N/F
NEW FERNWOOD CEMETERY



SEGMENT No.11

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
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DATED MAY 08, 2018 FILE # 18-0063
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Christopher D. Wempe



SEGMENT No.12
AP 30, LOT 24
N/F
UNIVERSITY OF RHODE ISLAND

LEGEND	
SYMBOL	DESCRIPTION
	LIMIT OF DISTURBANCE / COMPOST FILTER SOCK PROPERTY LINE
	CHAIN LINK FENCE, TYP. SEE CIVIL DRAWINGS
	SPLIT RAIL FENCE, TYP. SEE CIVIL DRAWINGS
	CONCRETE UNIT PAVEMENT
	CAST-IN-PLACE CONCRETE PAVING
	SEEDING LAWN
	NATIVE MESIC MEADOW SEED MIX
	NATIVE WET MEADOW SEED MIX
	BIKE PATH SIGN (DETAIL 1/L3.00)
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4. SEE CIVIL DRAWINGS FOR PAVEMENT PLANS AND DETAILS.	



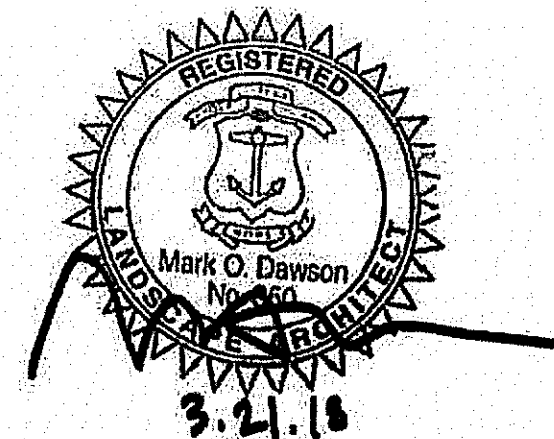
PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

OWNER/APPLICANT:

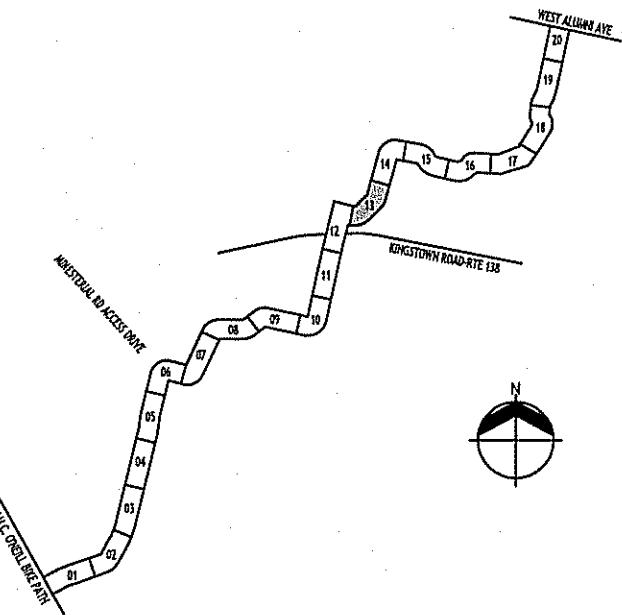
UNIVERSITY OF RHODE ISLAND
OFFICE OF CAPITAL PROJECTS
60 TOOTELL ROAD
KINGSTON, RHODE ISLAND
TEL: 401-874-2725

DWG ISSUE & REVISION HISTORY

Stamp



Key Plan



Project Title:

URI/SOUTH COUNTY
BIKE PATH CONNECTOR

Drawing Title:

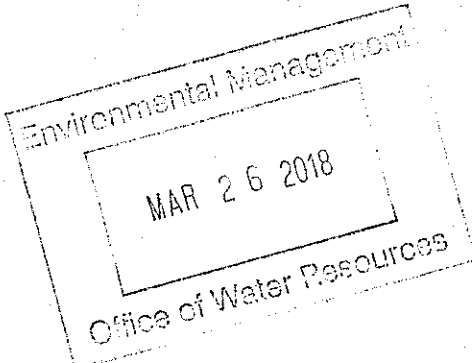
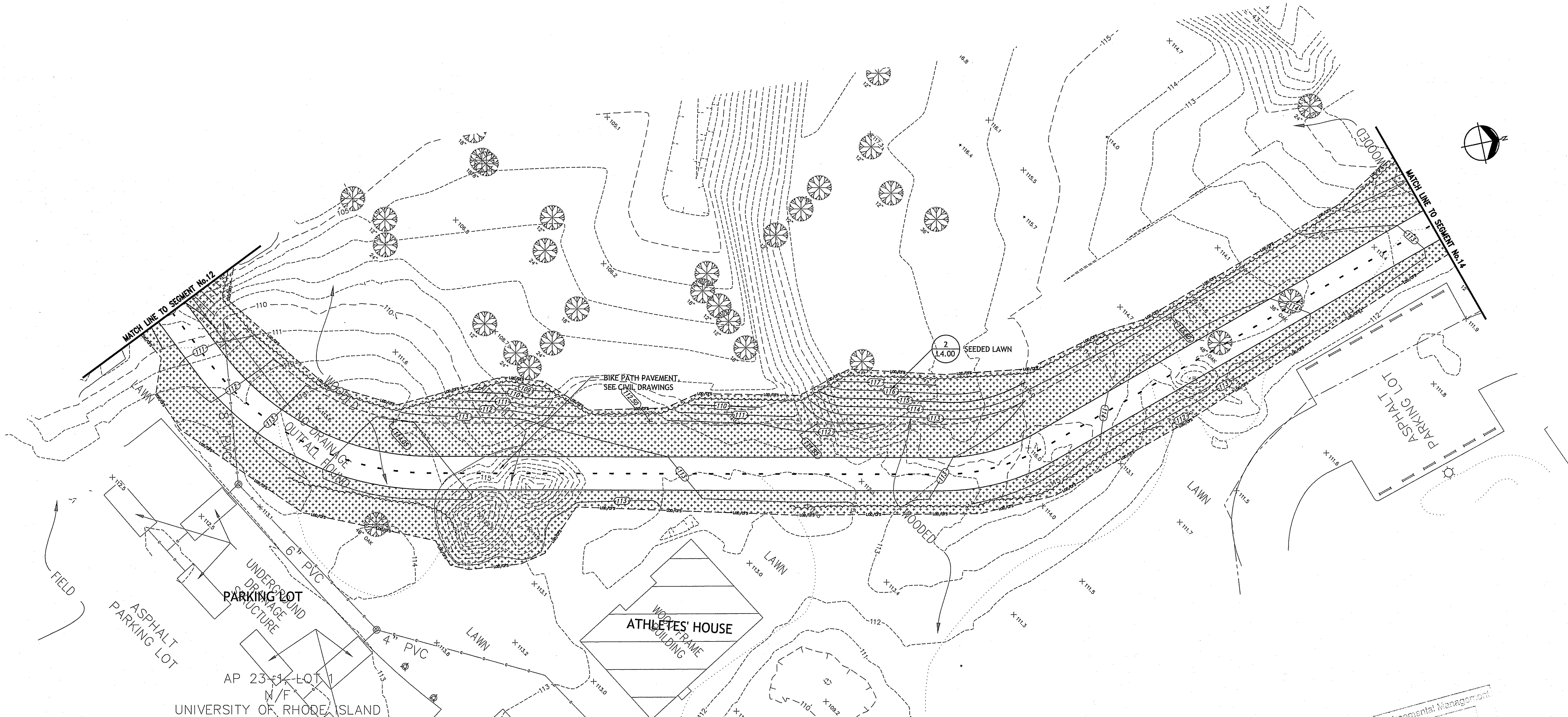
PLANTING,
SITE FURNISHINGS &
SIGNAGE PLAN

Project No: 56173.02 Scale: 1" = 20'-0"
Drawn By: SW, KS, GCL
Checked By: RM
Approved By: CB
Date: 03/21/2018

Drawing No:

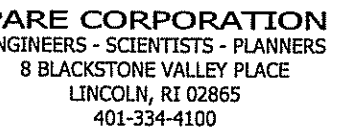
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Sheet No: 46 Of 54



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 08 2018 FILE # 18-0063
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Christopher D. Wenzel

LEGEND	
SYMBOL	DESCRIPTION
	LIMIT OF DISTURBANCE / COMPOST FILTER SOCK PROPERTY LINE
	CHAIN LINK FENCE, TYP. SEE CIVIL DRAWINGS
	SPLIT RAIL FENCE, TYP.
	CONCRETE UNIT PAVERS
	CAST-IN-PLACE CONCRETE PAVING
	SEEDDED LAWN
	NATIVE MESIC MEADOW SEED MIX
	NATIVE WET MEADOW SEED MIX
	BIKE PATH SIGN (DETAIL 1/L3.00)
STX-#	
PLANTING, SITE FURNISHINGS, AND SIGNAGE:	
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3. ALL DISTURBED AREAS SHALL BE LOAMED AND RESEDED, UNLESS OTHERWISE NOTED.	
4. SEE CIVIL DRAWINGS FOR PAVEMENT PLANS AND DETAILS.	

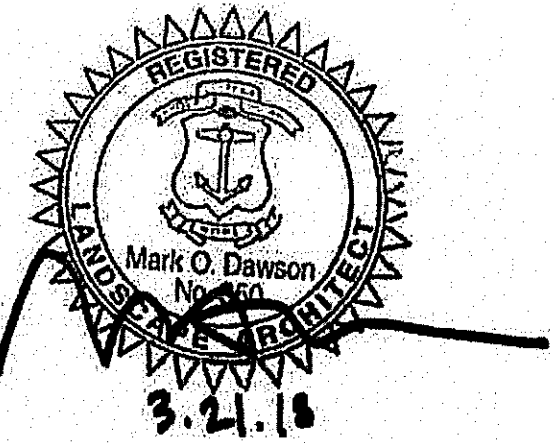


OWNER/APPLICANT:

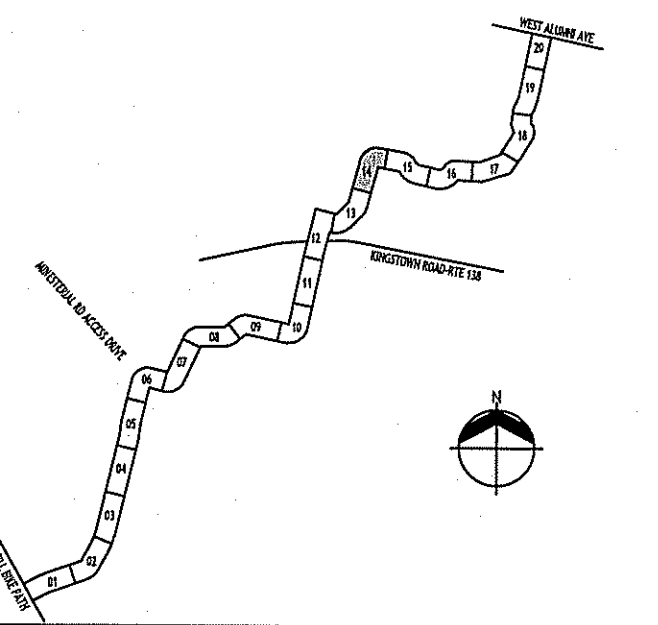
UNIVERSITY OF RHODE ISLAND
OFFICE OF CAPITAL PROJECTS
1 TOOTELL ROAD
PAWTUCKET, RHODE ISLAND
TEL: 401-874-2725

WG ISSUE & REVISION HISTORY

tamp



Key Plan



Project Title:

URI/SOUTH COUNTY IKE PATH CONNECTOR

Drawing Title:

PLANTING, SITE FURNISHINGS & SIGNAGE PLAN

Project No: 56173.02 Scale: 1" = 20'-0"

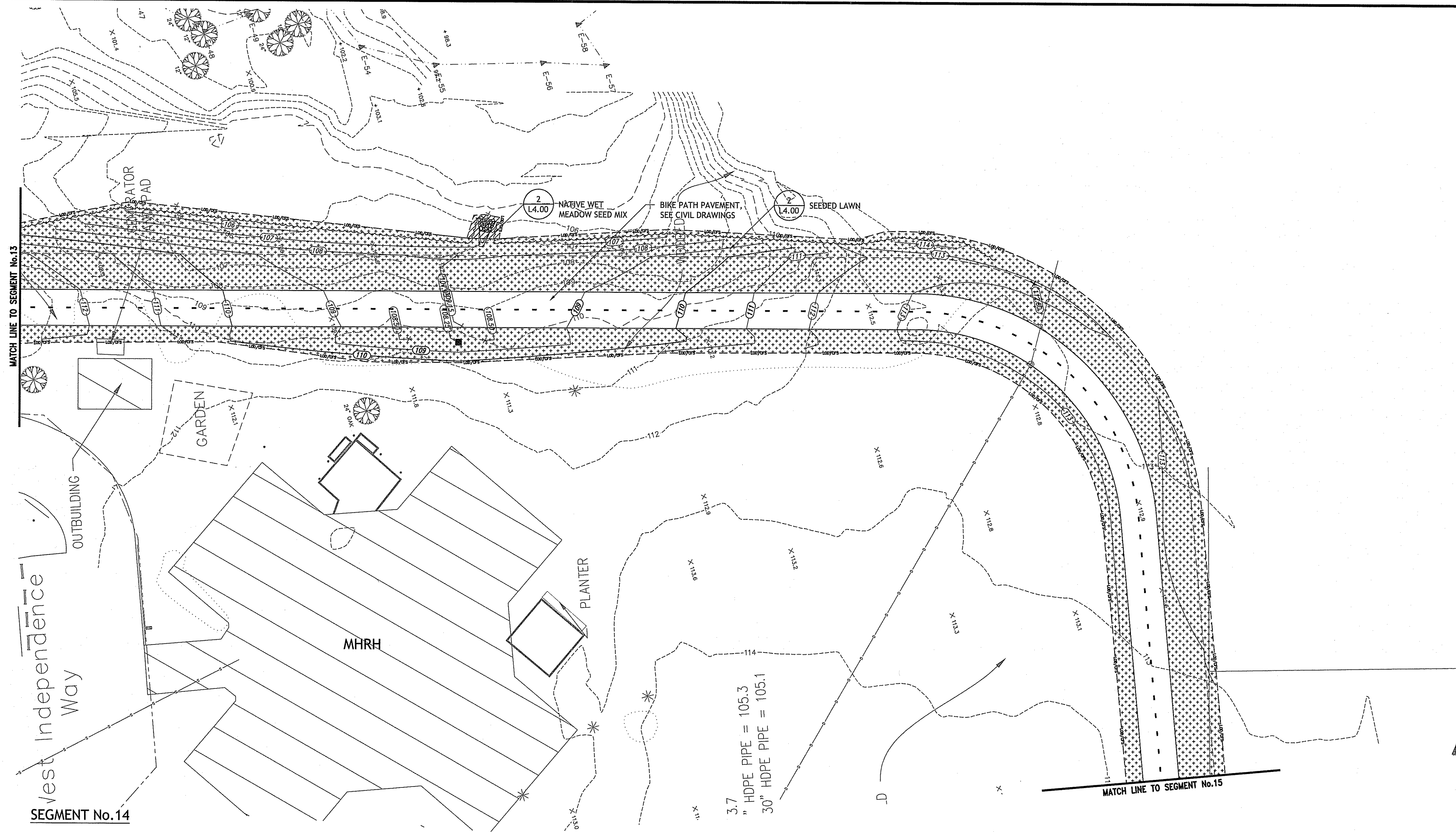
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Checked By: RM

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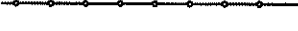
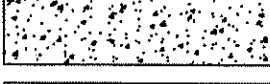
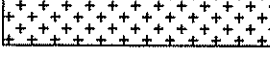
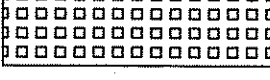
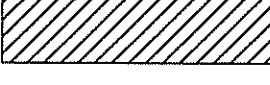
Date: 03/21/2018

Drawing No: **L1.10** Sheet No:



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 08 2018 FILE # 18-0063
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Ernest D. Wencek

LEGEND	
SYMBOL	DESCRIPTION
	LIMIT OF DISTURBANCE / COMPOST FILTER SOCK PROPERTY LINE
	CHAIN LINK FENCE, TYP. SEE CIVIL DRAWINGS
	SPLIT RAIL FENCE, TYP.
	CONCRETE UNIT PAVERS
	CAST-IN-PLACE CONCRETE PAVING
	SEEDED LAWN
	NATIVE MESIC MEADOW SEED MIX
	NATIVE WET MEADOW SEED MIX
 STX-#	BIKE PATH SIGN (DETAIL 1/L3.00)

PLANTING, SITE FURNISHINGS, AND SIGNAGE:

1. ALL CONSTRUCTION WITHIN THE 200' RIVERBANK SETBACK AND 100 YEAR FLOODPLAIN SHALL CONFORM WITH ALL RIDEN REGULATIONS.
2. THERE SHALL BE NO REMOVAL OF EXISTING NATIVE VEGETATION FROM THE AREAS WITHIN BIOLOGICAL WETLANDS.
3. ALL DISTURBED AREAS SHALL BE NODED AND RESEEDED, UNLESS OTHERWISE LOANED.
4. SEE CIVIL DRAWINGS FOR PAVEMENT PLANS AND DETAILS.



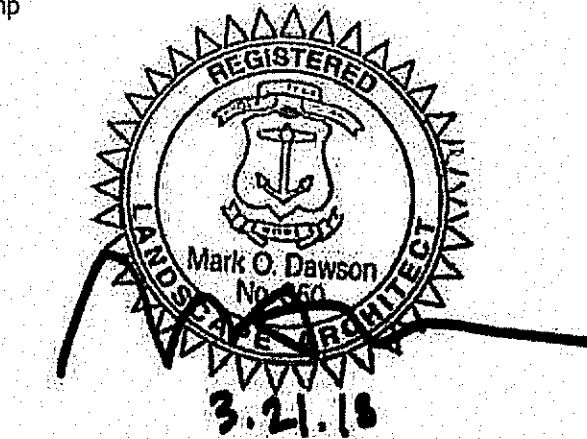
PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

OWNER/APPLICANT:

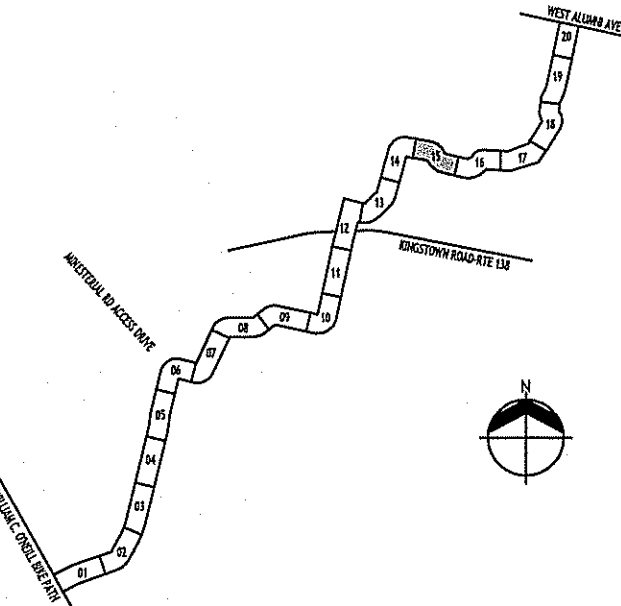
UNIVERSITY OF RHODE ISLAND
OFFICE OF CAPITAL PROJECTS
60 TOOTELL ROAD
KINGSTON, RHODE ISLAND
TEL: 401-874-2725

DWG ISSUE & REVISION HISTORY

Stamp



Key Plan



Project Title:

**URI/SOUTH COUNTY
BIKE PATH CONNECTOR**

Drawing Title:

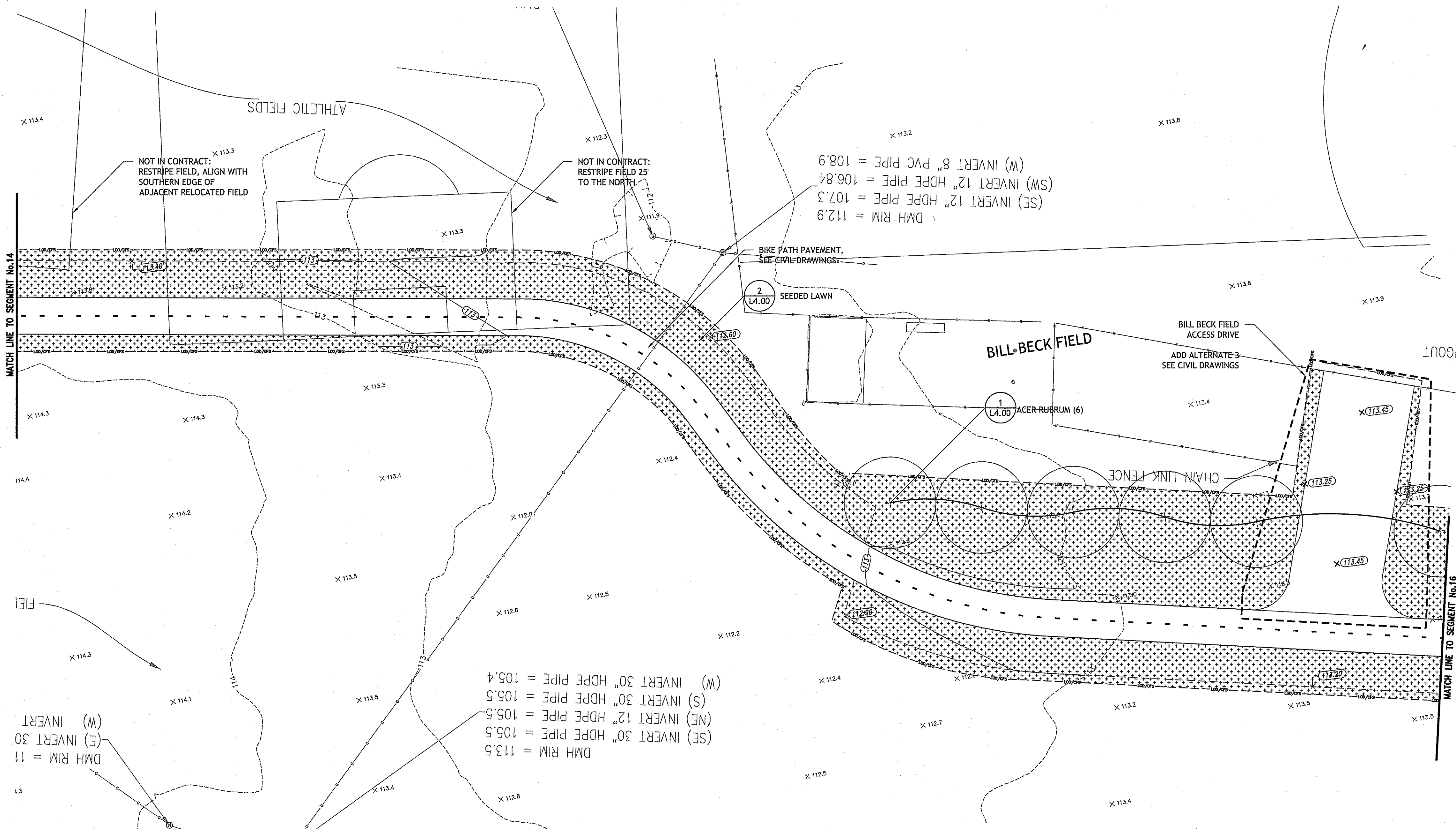
**PLANTING,
SITE FURNISHINGS &
SIGNAGE PLAN**

Project No: 56173.02 Scale: 1" = 20'-0"
Drawn By: SW, KS, GCL
Checked By: RM
Approved By: CB
Date: 03/21/2018

Drawing No:

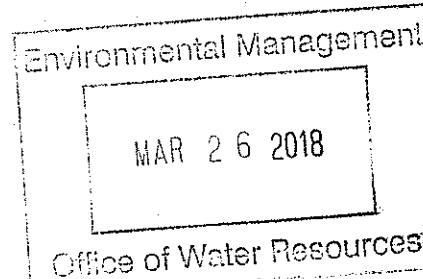
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Sheet No: 48 Of 54



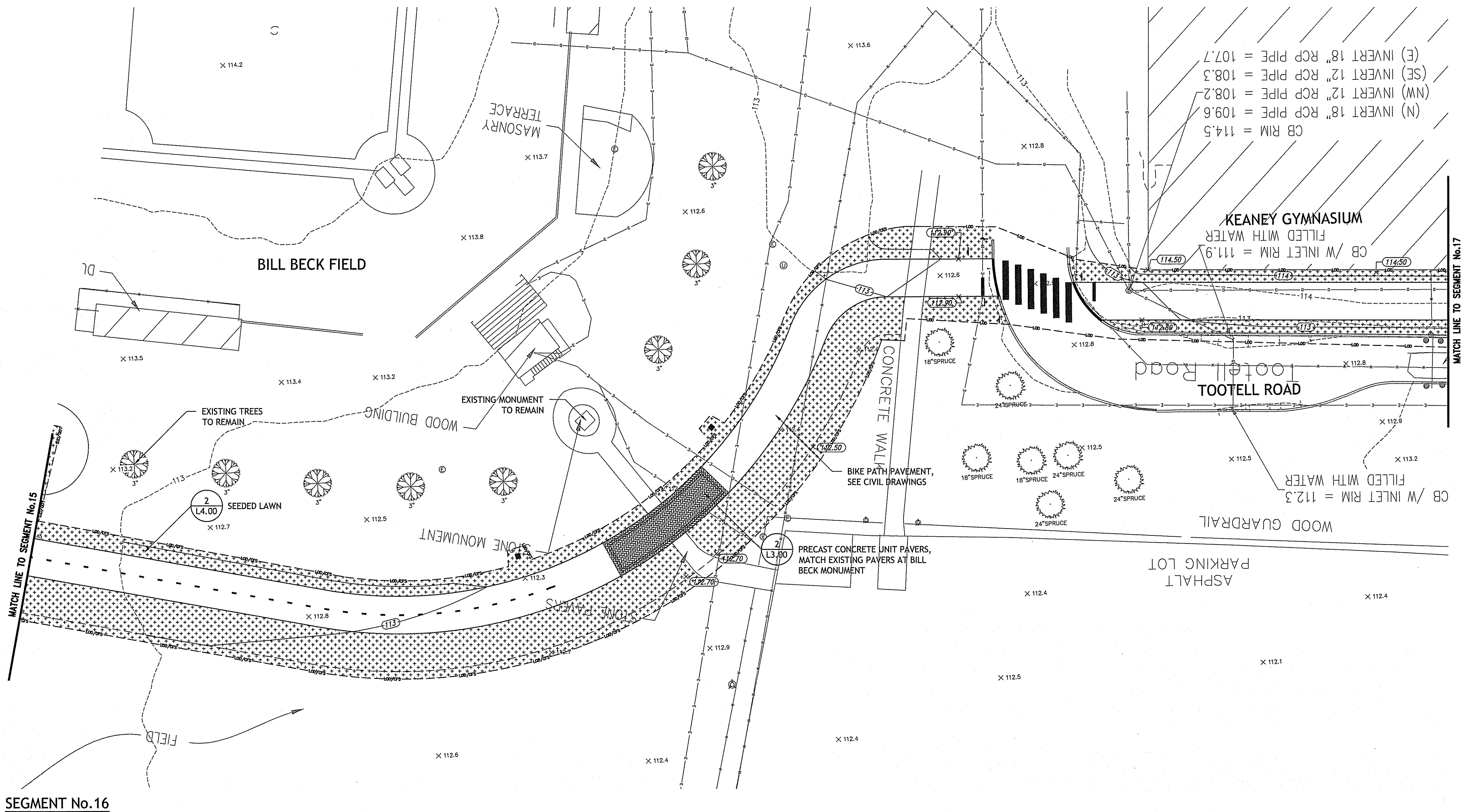
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 08 2018 FILE # 18-00043
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Christopher D. Wenzel



LEGEND	
SYMBOL	DESCRIPTION
	LIMIT OF DISTURBANCE / COMPOST FILTER SOCK PROPERTY LINE
	CHAIN LINK FENCE, TYP. SEE CIVIL DRAWINGS
	SPLIT RAIL FENCE, TYP.
	CONCRETE UNIT PAVERS
	CAST-IN-PLACE CONCRETE PAVING
	SEEDING LAWN
	NATIVE MESIC MEADOW SEED MIX
	NATIVE WET MEADOW SEED MIX
	BIKE PATH SIGN (DETAIL 1/L3.00)
STX-#	
PLANTING, SITE FURNISHINGS, AND SIGNAGE:	
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3. ALL DISTURBED AREAS SHALL BE LOAMED AND RESEEDING, UNLESS OTHERWISE NOTED.	
4. SEE CIVIL DRAWINGS FOR PAVEMENT PLANS AND DETAILS.	

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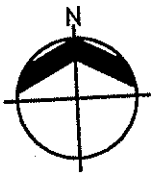


SEGMENT No.16

LEGEND	
SYMBOL	DESCRIPTION
	LIMIT OF DISTURBANCE / COMPOST FILTER SOCK PROPERTY LINE
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	SPLIT RAIL FENCE, TYP.
	CONCRETE UNIT PAVERS
	CAST-IN-PLACE CONCRETE PAVING
	SEEDDED LAWN
	NATIVE MESIC MEADOW SEED MIX
	NATIVE WET MEADOW SEED MIX
	BIKE PATH SIGN (DETAIL 1/L3.00)
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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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Christopher D. Wenzel

Environmental Management
MAR 26 2018
Office of Water Resources



SASAKI
44 PLEASANT STREET WATERTOWN MA 02472 USA
P 617 926 9800 F 617 924 2748 W SASAKI.COM

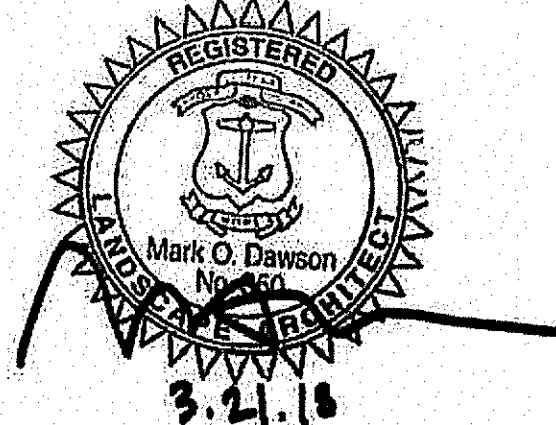
PARE
PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
6 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

OWNER/APPLICANT:

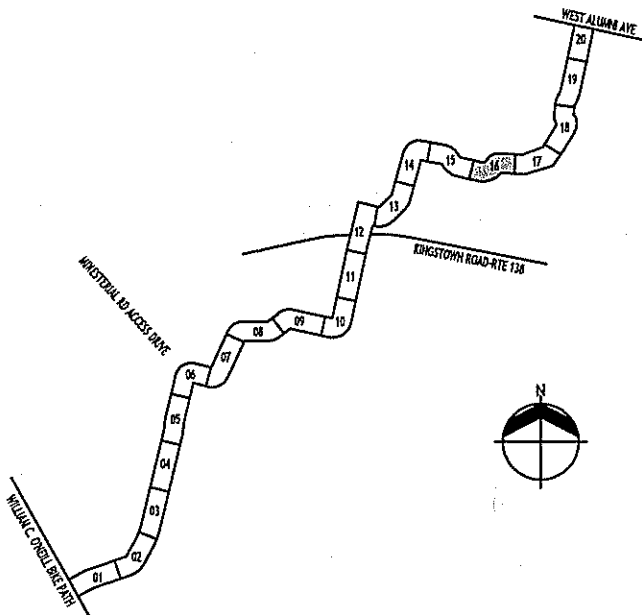
UNIVERSITY OF RHODE ISLAND
OFFICE OF CAPITAL PROJECTS
60 TOOTELL ROAD
KINGSTON, RHODE ISLAND
TEL: 401-874-2725

DWG ISSUE & REVISION HISTORY

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Key Plan



Project Title:

URI/SOUTH COUNTY
BIKE PATH CONNECTOR

Drawing Title:

PLANTING,
SITE FURNISHINGS &
SIGNAGE PLAN

Project No: 56173.02 Scale: 1" = 20'-0"
Drawn By: SW, KS, GCL
Checked By: RM
Approved By: CB
Date: 03/21/2018

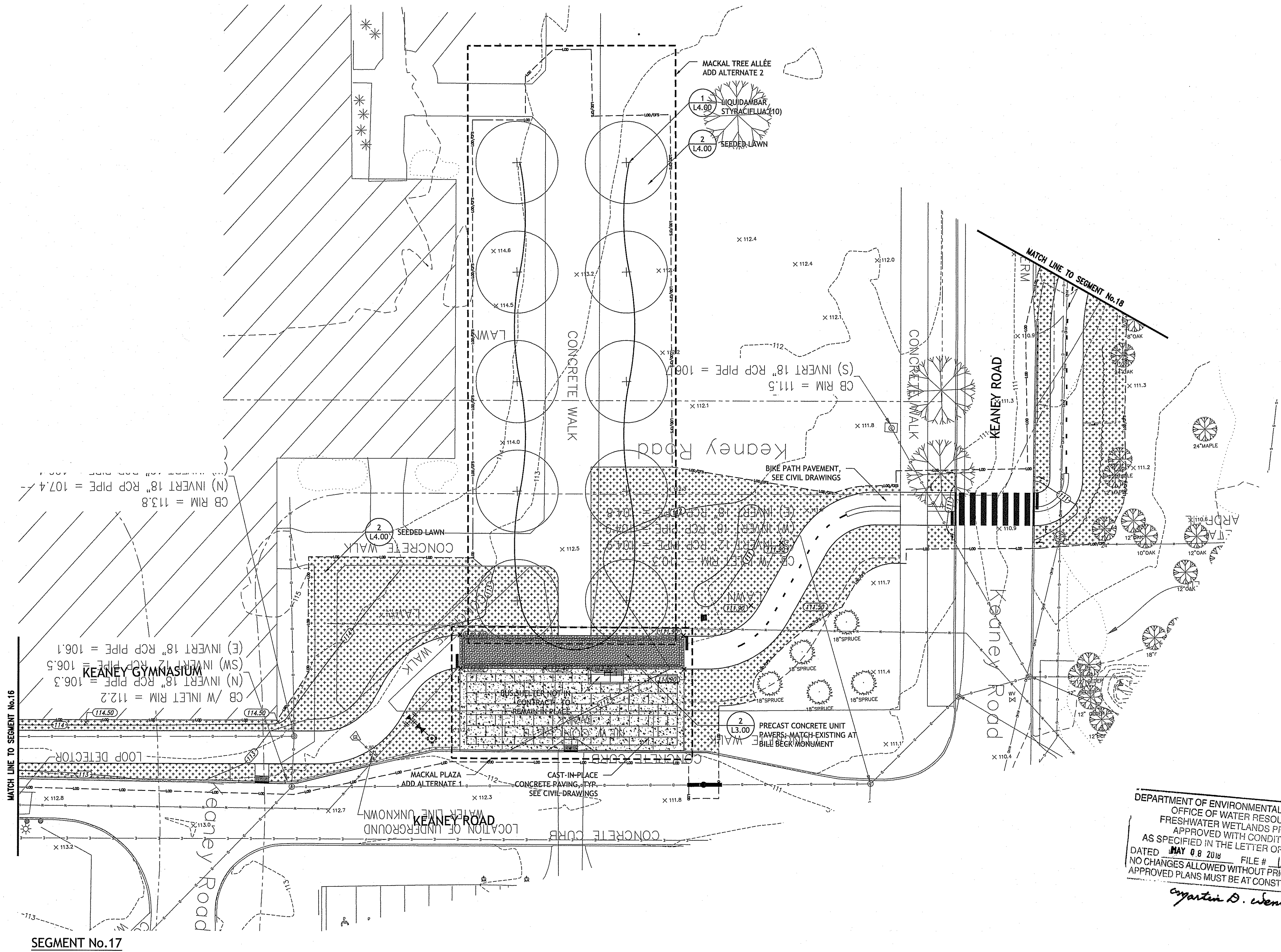
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L1.12

Sheet No: 49 OF 54

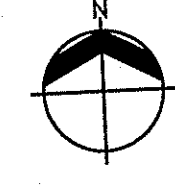
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LEGEND	
SYMBOL	DESCRIPTION
	LIMIT OF DISTURBANCE / COMPOST FILTER SOCK
	PROPERTY LINE
	CHAIN LINK FENCE, TYP. SEE CIVIL DRAWINGS
	SPLIT RAIL FENCE, TYP.
	CONCRETE UNIT PAVERS
	CAST-IN-PLACE CONCRETE PAVING
	SEEDDED LAWN
	NATIVE MESIC MEADOW SEED MIX
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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
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Christopher D. Wenzel

Environmental Management
MAR 26 2018
Office of Water Resources

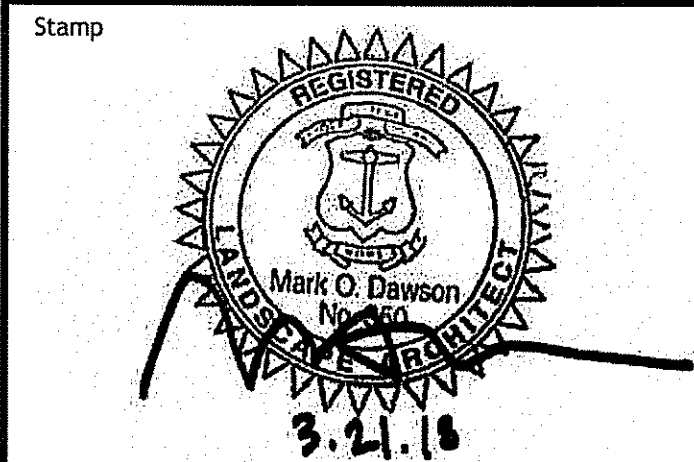


SASAKI
44 PLEASANT STREET WATERTOWN MA 02472 USA
P 617 926 9300 F 617 924 2749 W SASAKI.COM

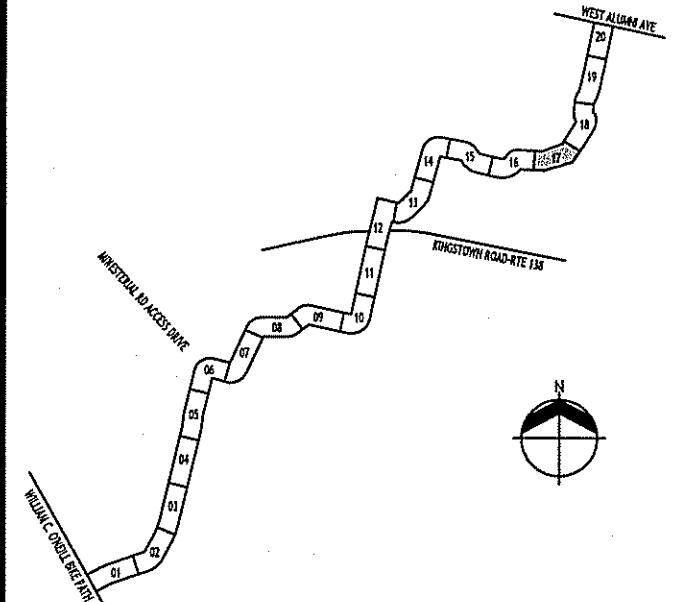
PARE
PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

OWNER/APPLICANT:
UNIVERSITY OF RHODE ISLAND
OFFICE OF CAPITAL PROJECTS
60 TOOTELL ROAD
KINGSTON, RHODE ISLAND
TEL: 401-874-2725

DWG ISSUE & REVISION HISTORY



Key Plan



Project Title:

URI/SOUTH COUNTY
BIKE PATH CONNECTOR

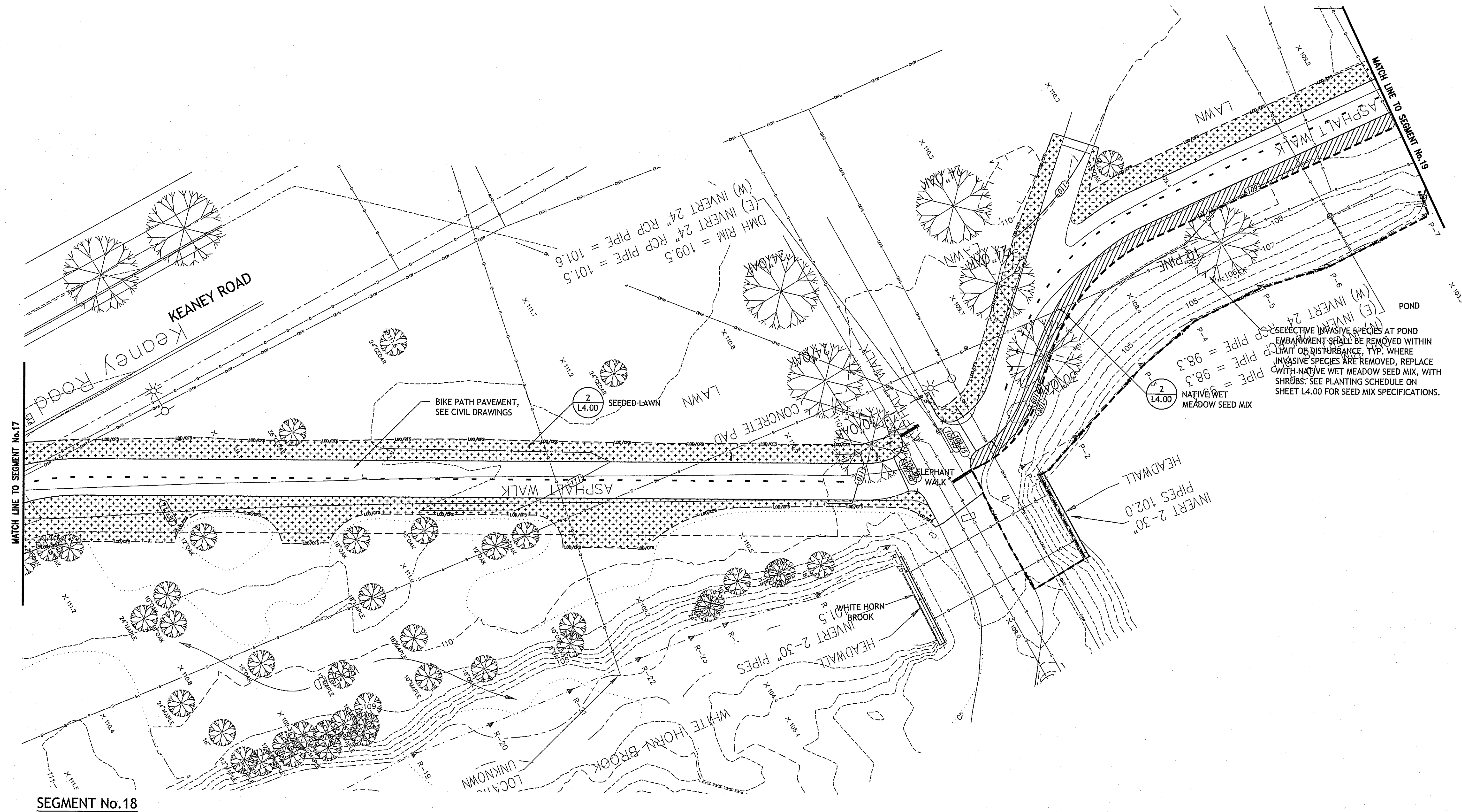
Drawing Title:

PLANTING,
SITE FURNISHINGS &
SIGNAGE PLAN

Project No: 56173.02 Scale: 1" = 20'-0"
Drawn By: SW, KS, GCL
Checked By: RM
Approved By: CB
Date: 03/21/2018

Drawing No:
L1.13
Sheet No: 50 Of 54

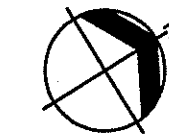
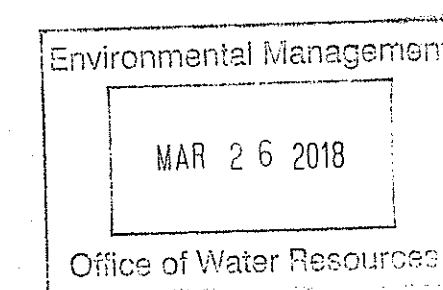
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SEGMENT No.18

LEGEND	
SYMBOL	DESCRIPTION
	LIMIT OF DISTURBANCE / COMPOST FILTER SOCK PROPERTY LINE
	CHAIN LINK FENCE, TYP. SEE CIVIL DRAWINGS
	SPLIT RAIL FENCE, TYP.
	CONCRETE UNIT PAVERS
	CAST-IN-PLACE CONCRETE PAVING
	SEEDED LAWN
	NATIVE MESIC MEADOW SEED MIX
	NATIVE WET MEADOW SEED MIX
	BIKE PATH SIGN (DETAIL 1/L3.00)
PLANTING, SITE FURNISHINGS, AND SIGNAGE:	
1. ALL CONSTRUCTION WITHIN THE 200' RIVERBANK SETBACK AND 100 YEAR FLOODPLAIN SHALL CONFORM WITH ALL RIDEM REGULATIONS. 2. THERE SHALL BE NO REMOVAL OF EXISTING NATIVE VEGETATION FROM THE AREAS WITHIN BIOLOGICAL WETLANDS. 3. ALL DISTURBED AREAS SHALL BE LOAMED AND RESEEDED, UNLESS OTHERWISE NOTED. 4. SEE CIVIL DRAWINGS FOR PAVEMENT PLANS AND DETAILS.	

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 08 2018 FILE # 18-0063
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Signature: D. Wencsek



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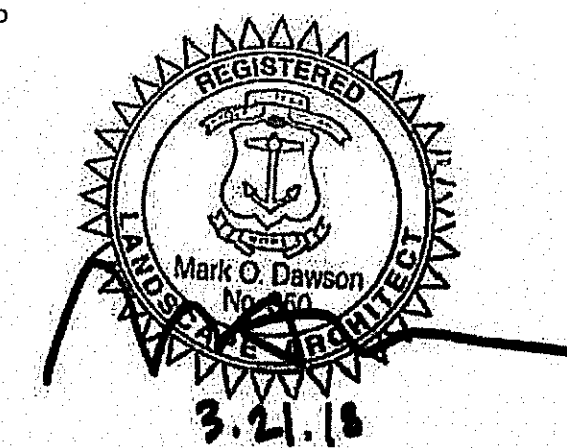
PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

OWNER/APPLICANT:

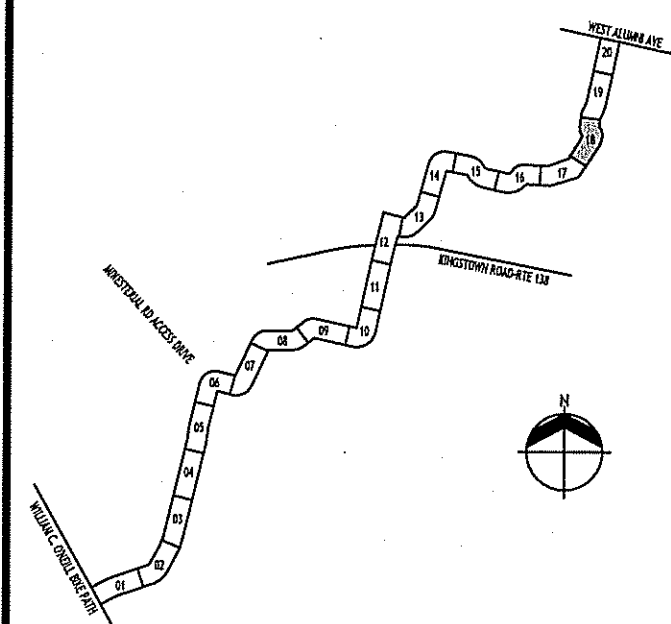
UNIVERSITY OF RHODE ISLAND
OFFICE OF CAPITAL PROJECTS
60 TOOTELL ROAD
KINGSTON, RHODE ISLAND
TEL: 401-874-2725

DWG ISSUE & REVISION HISTORY

Stamp



Key Plan



Project Title:

URI/SOUTH COUNTY
BIKE PATH CONNECTOR

Drawing Title:

PLANTING,
SITE FURNISHINGS &
SIGNAGE PLAN

Project No: 56173.02 Scale: 1" = 20'-0"
Drawn By: SW, KS, GCL
Checked By: RM
Approved By: CB
Date: 03/21/2018

Drawing No:

L1.14

Sheet No: 51 Of 54

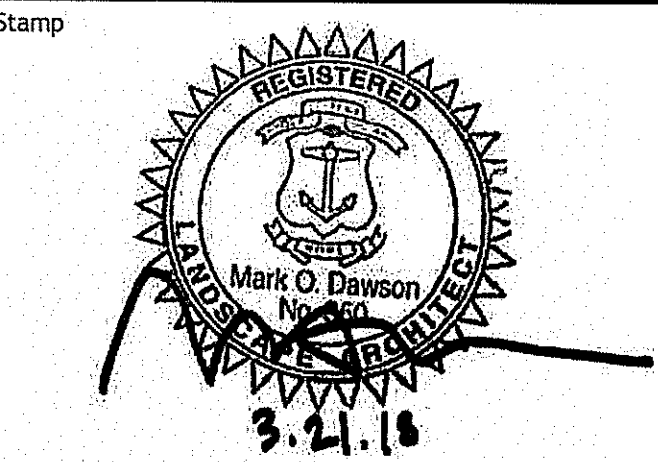


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401-334-4100

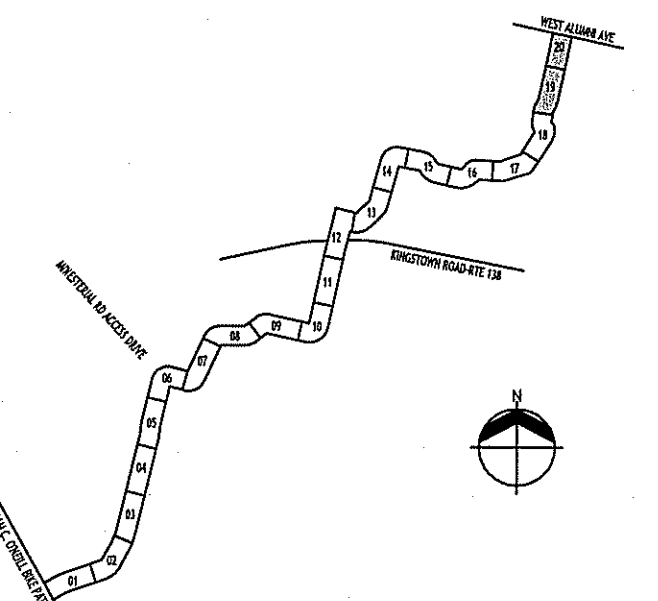
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DWG ISSUE & REVISION HISTORY



Key Plan



Project Title:

URI/SOUTH COUNTY
BIKE PATH CONNECTOR

Drawing Title:

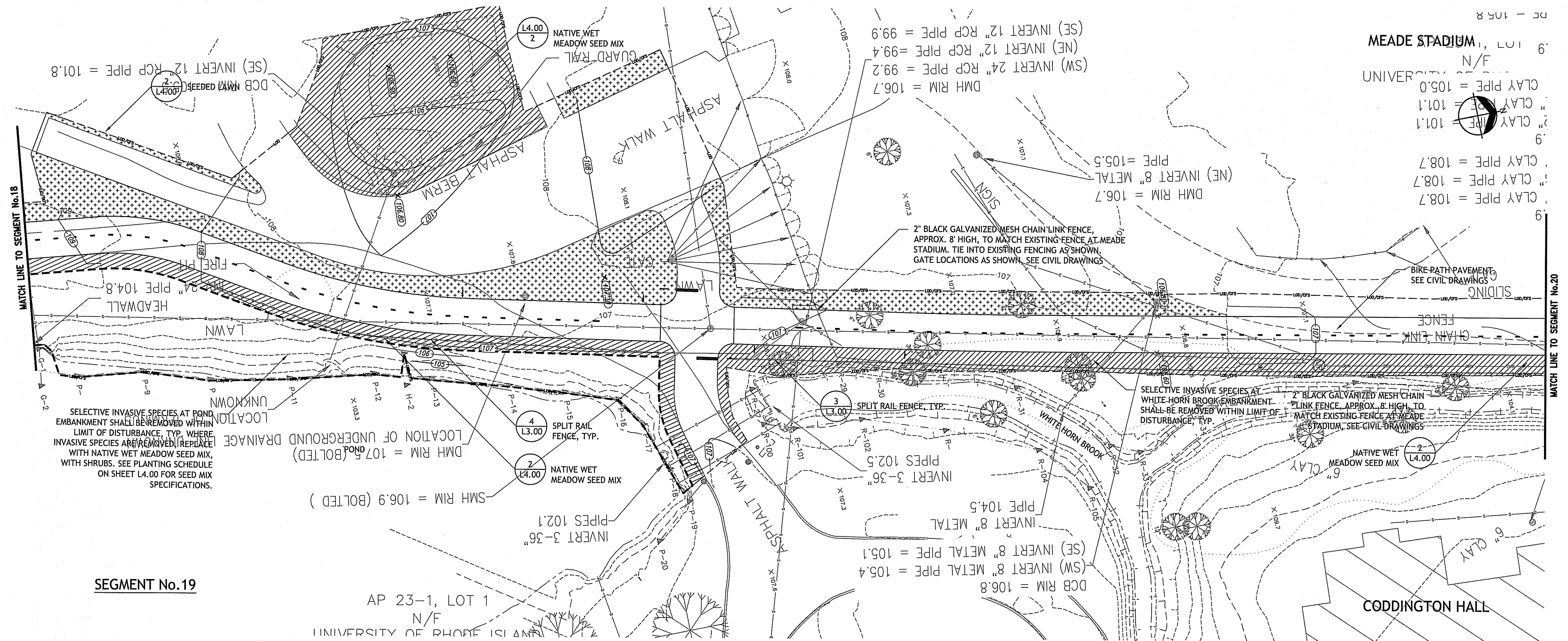
PLANTING,
SITE FURNISHINGS &
SIGNAGE PLAN

Project No: 56173.02 Scale: 1" = 20'-0"
Drawn By: SW, KS, GCL
Checked By: RM
Approved By: CB
Date: 03/21/2018

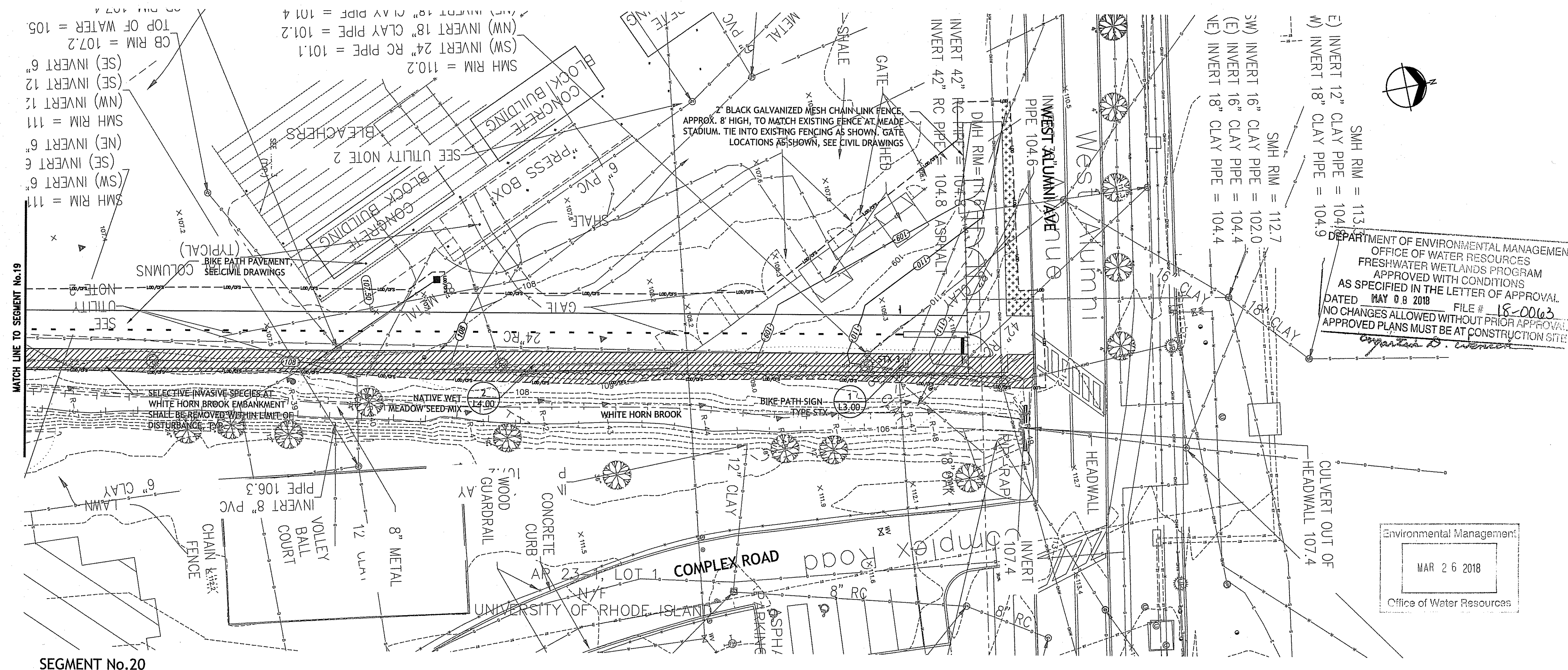
Drawing No:

L1.15

Sheet No: 52 Of 54



SEGMENT No.19

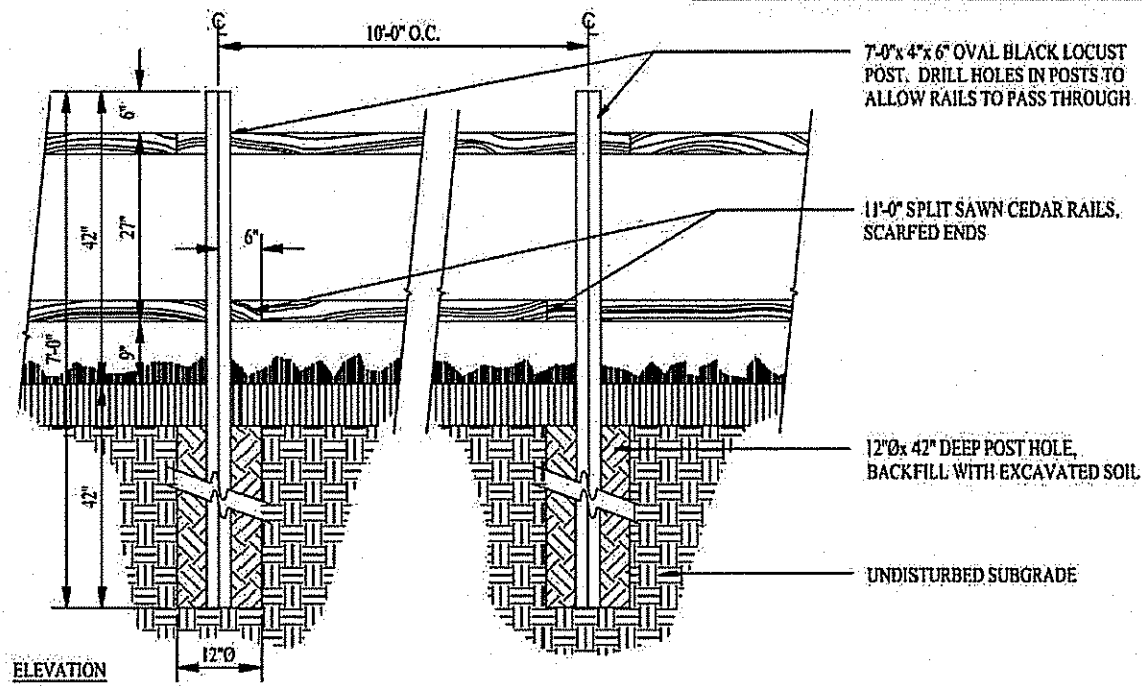


SEGMENT No.20

LEGEND	
SYMBOL	DESCRIPTION
	LIMIT OF DISTURBANCE / COMPOST FILTER SOCK PROPERTY LINE
	CHAIN LINK FENCE, TYP. SEE CIVIL DRAWINGS
	SPLIT RAIL FENCE, TYP.
	CONCRETE UNIT PAVERS
	CAST-IN-PLACE CONCRETE PAVING
	SEEDDED LAWN
	NATIVE MESIC MEADOW SEED MIX
	NATIVE WET MEADOW SEED MIX
	BIKE PATH SIGN (DETAIL 1/L3.00)
PLANTING, SITE FURNISHINGS, AND SIGNAGE:	
- ALL CONSTRUCTION WITHIN THE 200' RIVERBANK SETBACK AND 100' YEAR FLOODPLAIN SHALL CONFORM WITH ALL RIDEM REGULATIONS. - THERE SHALL BE NO REMOVAL OF EXISTING NATIVE VEGETATION FROM THE AREAS WITHIN BIOLOGICAL WETLANDS. - ALL DISTURBED AREAS SHALL BE LOAMED AND RESEEDDED, UNLESS OTHERWISE NOTED. - SEE CIVIL DRAWINGS FOR PAVEMENT PLANS AND DETAILS.	

NOTES

A. SPLIT RAIL FENCE SHALL BE CAMPUS STANDARD URI2017-34. CONTRACTOR SHALL COORDINATE WITH OWNER.



ELEVATION

District:
Case-by-case basis, excluding Historic Campus Core District

Color:
Natural wood

Make:
Locally sourced

Design Narrative:

- Split rail fences to be used to discourage parking on the side of roads
- Fences shall be located a minimum of 4 feet off shoulder of road
- All fence installations shall have a natural finish
- Posts to be made from black locust and rails to be made from cedar
- Turf preferred under split rail fence

4 SPLIT RAIL FENCE (CAMPUS STANDARD URI2017-33)

NOT TO SCALE

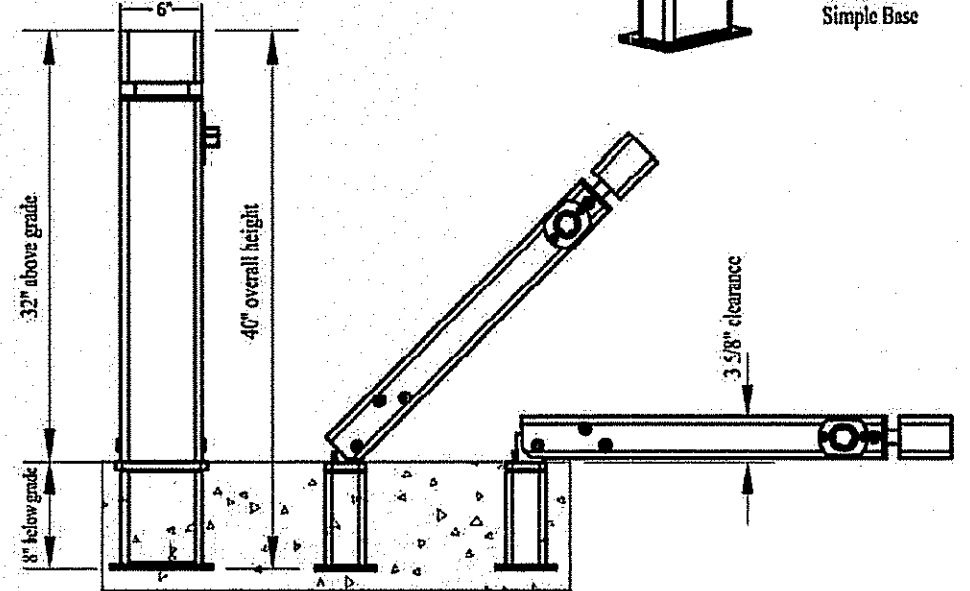
NOTES

A. BOLLARD SHALL BE CAMPUS STANDARD URI2071-34. CONTRACTOR SHALL COORDINATE WITH OWNER.

MAXIFORCE Collapsible Bollard
Standard body, wrench operated, standard style 1
head, simple base
AHD approved for use in fire lanes per International
Fire Code (IFC) 503

Patented fire hydrant wrench
operation works with any standard
fire hydrant wrench by turning the
nut 1/4 turn to unlock and lower the
bollard (1 3/8" nut standard)

Patented break-away design allows for instant
emergency access without a key. Unit can be
pushed over with the bumper of a vehicle.
Flush surface when bollard is removed.
Leaves no tripping hazard and won't catch
snow plows or other maintenance
equipment.



District: Campus wide
Color: TBD

Make: Maxiforce Traffic Control Bollards

Design Narrative:

- MCSW-SSI-S w/P150
- Black (w/ reflective black tape)

3 COLLAPSIBLE BOLLARD (CAMPUS STANDARD URI2017-34)

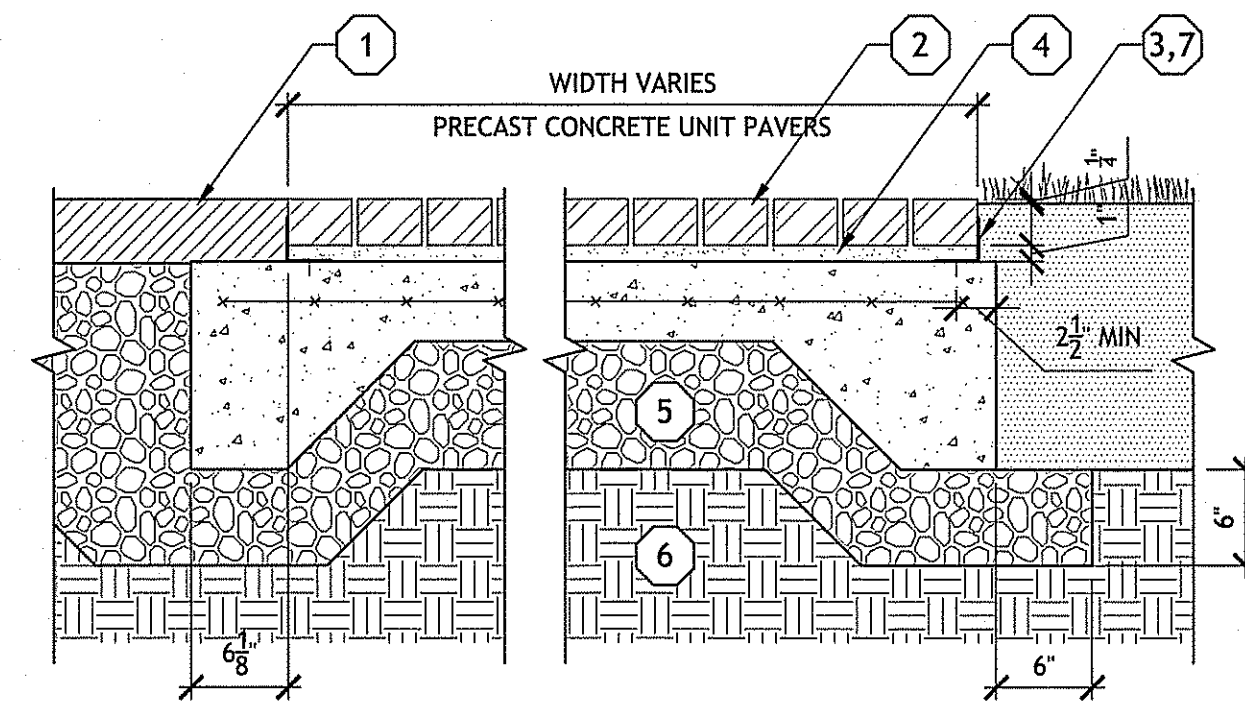
NOT TO SCALE

LEGEND

1. MATERIAL VARIES, SEE PLANS
2. PRECAST CONCRETE UNIT PAVERS
3. PAYER EDGE RESTRAINT
4. MORTAR SETTING BED
5. COMPACTED AGGREGATE BASE
6. COMPACTED OR UNDISTURBED SUBGRADE
7. 1" FASTENER, 2 1/2" MIN. FROM EDGE OF CONCRETE, @ 12" O.C.

NOTES

A.



2 PRECAST CONCRETE UNIT PAVERS ON CONCRETE BASE

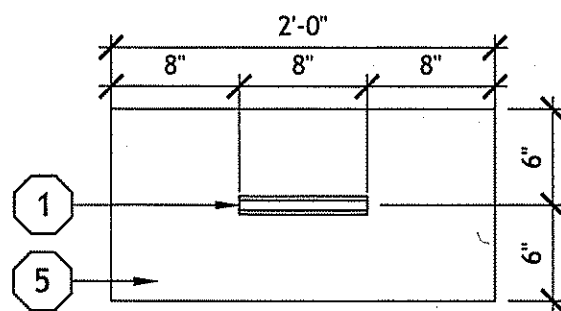
1"=1'-0"

LEGEND

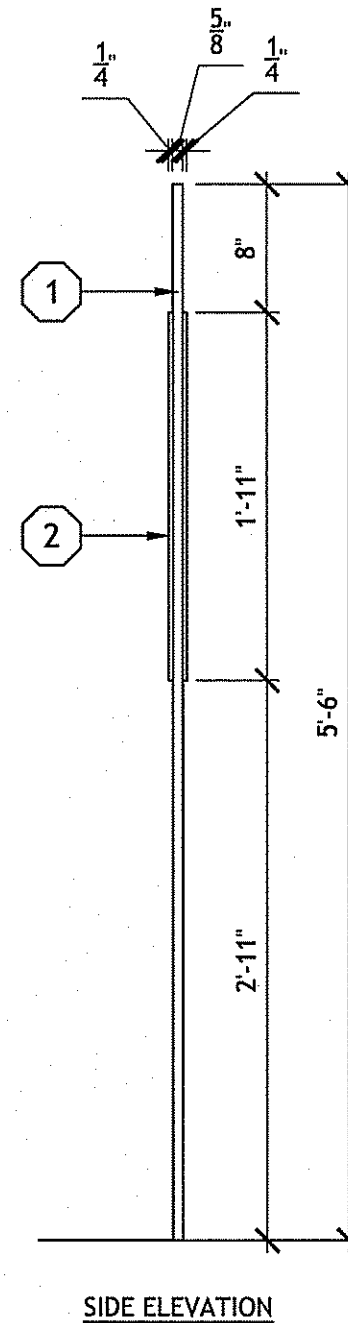
1. ALUMINUM BASE WITH SMOOTH EDGES AND EASED CORNERS, POWDER COAT ALL AROUND TO MATCH COLOR 1.
2. ALUMINUM PANELS ON BOTH SIDES OF BASE, WITH FULL COLOR GRAPHICS ON FACE AND EDGES BY DIRECT EMBED OR EQUAL. PERMANENTLY AFFIX TO BASE.
3. TOP SOIL
4. 3" LONG X 1/4" DIAMETER STUD ANCHOR
5. REINFORCED CONCRETE FOOTING
6. REINFORCING SHALL BE #5 BAR (6 HORIZONTAL, 3 VERTICAL)

NOTES

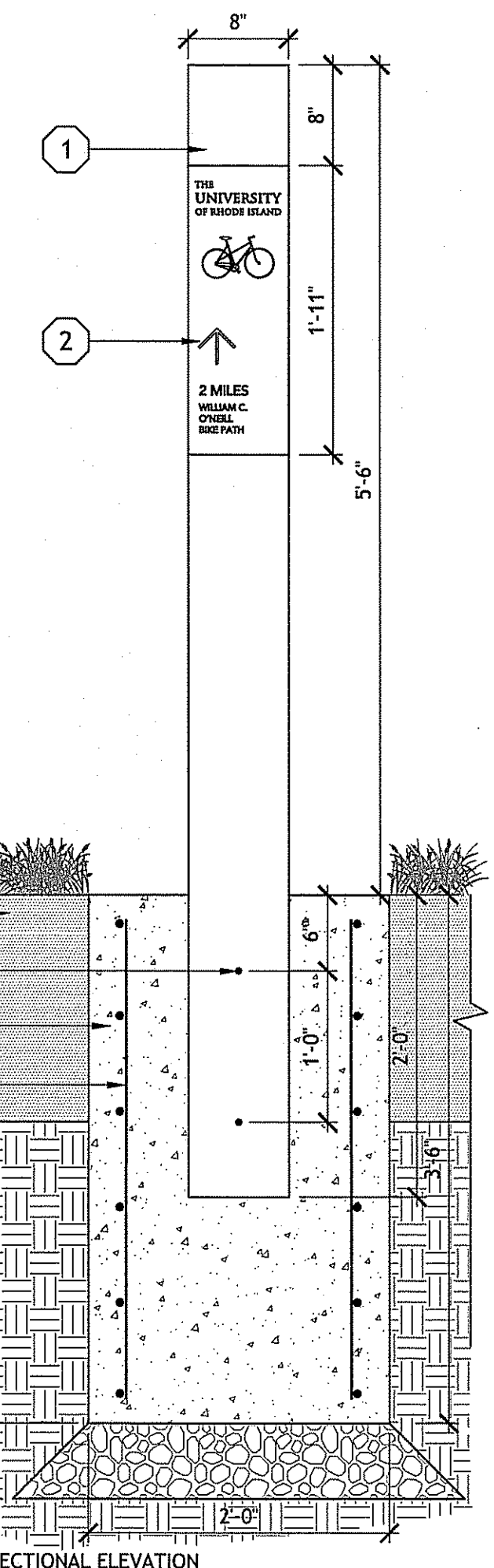
A. A. FOUR (4) BIKE PATH SIGNS TOTAL. SEE "STX-#" LOCATIONS ON PLANS.



PLAN



SIDE ELEVATION



FRONT SECTIONAL ELEVATION

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 08 2018 FILE # 18-0043
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
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Jonathan B. Wencek

1 BIKE PATH SIGN - TYPE STX

1"=1'-0"

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64 PLEASANT STREET WATERTOWN MA 02472 USA
P 017 926 3300 F 017 924 2748 W SASAKI.COM



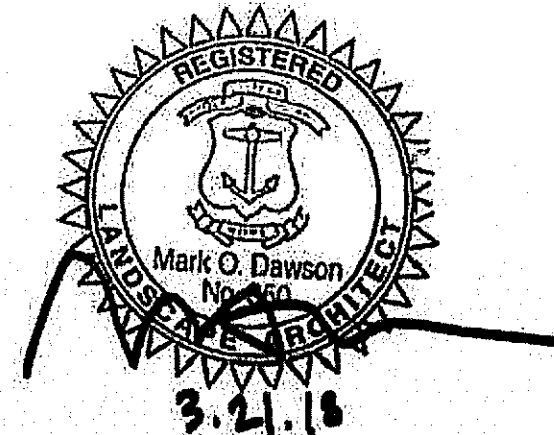
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60 TOOTELL ROAD
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DWG ISSUE & REVISION HISTORY

Stamp



Key Plan

Environmental Management

MAR 26 2018

Project Title:

URI/SOUTH COUNTY
BIKE PATH CONNECTOR

Drawing Title:

SITE
DETAILS

Project No: 56173.02 Scale:
Drawn By: SW, KS, GCL
Checked By: RM
Approved By: CB
Date: 03/21/2018

Drawing No:

L3.00

Sheet No: 53 OF 54

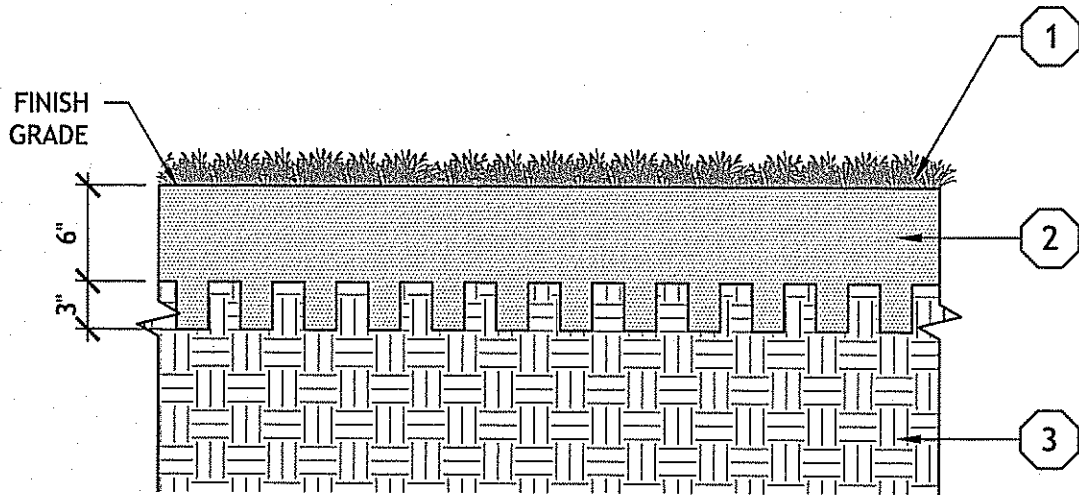
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PLANTING SCHEDULE

SYMBOL	QUANTITY	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	REMARKS
TREES						
	6	ACER RUBRUM	RED MAPLE	4-5" CAL.	AS SHOWN	B&B, PROVIDE NATIVE SPECIES OR CULTIVAR OTHER THAN 'OCTOBER GLORY'
	10	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	4-6" CAL.	AS SHOWN	B&B, PROVIDE FRUITLESS SPECIES
NATIVE MESIC MEADOW SEED MIX; NEW ENGLAND WILDFLOWER MIX (HTTP://NEWP.COM/DATA/2017/05/SEED05-030117.PDF)						
		SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM			SEED MIX, SEE SPECIFICATIONS
		FESTUCA RUBRA	RED FESCUE			
		SORGHASTRUM NUTANS	INDIAN GRASS			
		CHAMAECRISTA FASCICULATA	PARTRIDGE PEA			
		ELYMUS VIRGINICUS	VIRGINIA WILD RYE			
		ELYMUS CANADENSIS	CANADA WILD RYE			
		VERBENA HASTATA	BLUE VERVAIN			
		ASCLEPIAS TUBEROSA	BUTTERFLY MILKWEED			
		SISYRINCHIUM ANGUSTIFOLIUM	NARROWLEAFED BLUE EYED GRASS			
		ASTER NOVAE-ANGLIAE (SYMPHYOTRICHUM NOVAE-ANGLIA)	NEW ENGLAND ASTER			
		RUDBECKIA HIRTA	BLACK EYED SUSAN			
		LIATRIS SPICATA	SPIKED GAYFEATHER			
		ASTER LATERIFLORUS (SYMPHYOTRICHUM LATERIFLORUM)	STARVED/CALICO ASTER			
		SOLIDAGO JUNCEA	EARLY GOLDENROD			
	EUPATORIUM FISTULOSUM (EUTROCHIUM FISTULOSUM)	HOLLOW-STEM JOE PYE WEED				
NATIVE WET MEADOW SEED MIX; NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS AND MOIST SITES (HTTP://NEWP.COM/DATA/2017/05/SEED02-040117.PDF)						
		ELYMUS RIPARIUS	RIVERBANK WILD RYE			SEED MIX, SEE SPECIFICATIONS
		FESTUCA RUBRA	RED FESCUE			
		SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM			
		PANICUM VIRGATUM	SWITCH GRASS			
		ANDROPOGON GERARDII	BIG BLUESTEM			
		VERBENA HASTATA	BLUE VERVAIN			
		AGROSTIS PERENNANS	UPLAND BENTGRASS			
		BIDENS CERNUA	NODDING BUR MARIGOLD			
		EUPATORIUM FISTULOSUM (EUTROCHIUM FISTULOSUM)	HOLLOW-STEM JOE PYE WEED			
		EUPATORIUM PERFOLIATUM	BONESET			
		ASTER NOVAE-ANGLIAE (SYMPHYOTRICHUM NOVAE-ANGLIA)	NEW ENGLAND ASTER			
		SCIRPUS CYPERINUS	WOOL GRASS			
		JUNCUS EFFUSUS	SOFT RUSH			
	NATIVE WET MEADOW SEED MIX WITH SHRUBS; NEW ENGLAND ROADSIDE MATRIX WET MEADOW SEED MIX (HTTP://NEWP.COM/DATA/2017/08/SEED07-ROADSIDE-WET-050117.PDF)					
		ELYMUS RIPARIUS	RIVERBANK WILD RYE			SEED MIX, SEE SPECIFICATIONS
		FESTUCA RUBRA	RED FESCUE			
		BIDENS CERNUA	NODDING BUR MARIGOLD			
		PANICUM VIRGATUM	SWITCH GRASS			
		PANICUM DICHOTOMIFLORUM	SMOOTH PANIC GRASS			
		VERBENA HASTATA	BLUE VERVAIN			
		CORNUS AMOMUM	SILKY DOGWOOD			
		ASTER PRENANTHOIDES (SYMPHYOTRICHUM PRENANTHOIDE)	ZIGZAG ASTER			
		CAREX SCOPARIA	BLUNT BROOM SEDGE			
		CAREX LURIDA	LURID SEDGE			
		EUPATORIUM FISTULOSUM (EUTROCHIUM FISTULOSUM)	HOLLOW-STEM JOE PYE WEED			
		VIBURNUM DENTATUM	ARROW WOOD VIBURNUM			
		EUPATORIUM MACULATUM (EUTROCHIUM MACULATUM)	SPOTTED JOE PYE WEED			
		SCIRPUS ATROVIRENS	GREEN BULRUSH			
		SAMBUCUS CANADENSIS	ELDERBERRY			
SEEDED LAWN						
		TURFGRASS SEED	LAWN			SEED MIX, SEE SPECIFICATIONS

- LEGEND
1. GRASS SEED
 2. PLANTING SOIL
 3. SCARIFIED OR LOOSENEED SUBGRADE

- NOTES
- A. REFER TO SPECIFICATIONS FOR SEED MIXES AND SOIL MIX BLEND.

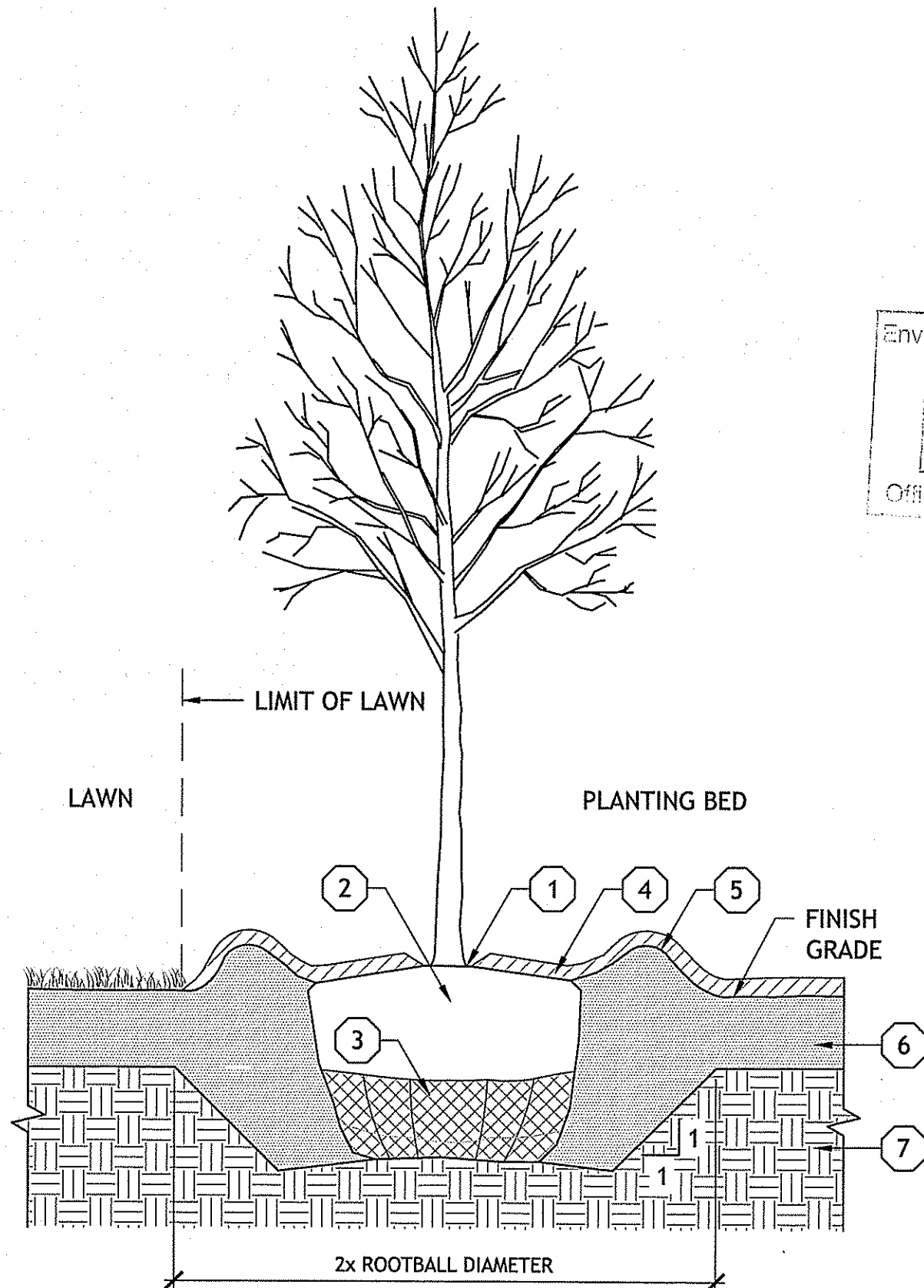


2 SEEDED AREAS

1"=1'-0"

- LEGEND
1. TOP OF ROOTBALL (TRUNK FLARE)
 2. ROOTBALL
 3. ROOTBALL TWINE, ROPE, BURLAP, AND WIRE BASKET FROM NURSERY
 4. MULCH - SEE SPECIFICATIONS
 5. EARTH SAUCER
 6. PLANTING SOIL
 7. COMPACTED OR UNDISTURBED SUBGRADE

- NOTES
- A. PRUNE TREE ONLY AFTER REVIEW WITH THE LANDSCAPE ARCHITECT.
- B. BRANCHES THAT PROTRUDE INTO ACCESSIBLE PATHWAYS MORE THAN 4" SHALL BE PRUNED TO A HEIGHT OF 6'-8" PER ADA (307.2).
- C. TOP OF ROOTBALL (TRUNK FLARE) SHALL BE SET 1'-2" ABOVE FINISH GRADE (WITH TRUNK FLARE VISIBLE).
- D. ROOTBALL SHALL BE SET ON UNEXCAVATED SUBGRADE OR TAMPED SOIL MOUND, TYP.
- E. EARTH SAUCER SHALL BE 4" HIGH, BEYOND EDGE OF ROOTBALL.
- F. MULCH SHALL HAVE A 3" SETTLED DEPTH AND SHALL BE KEPT AWAY FROM TREE TRUNK, TYP.
- G. TWINE, ROPE, BURLAP, AND WIRE BASKET SHALL BE REMOVED FROM TOP HALF OF ROOT BALL (REMOVE NON-BIODEGRADABLE ROPE AND BURLAP FROM ENTIRE ROT BALL), TYP.



1 TREE PLANTING, TYP.

1/2"=1'-0"

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Martin D. Wencel

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P 617 920-9300 F 617 924-2748 W SASAKI.COM



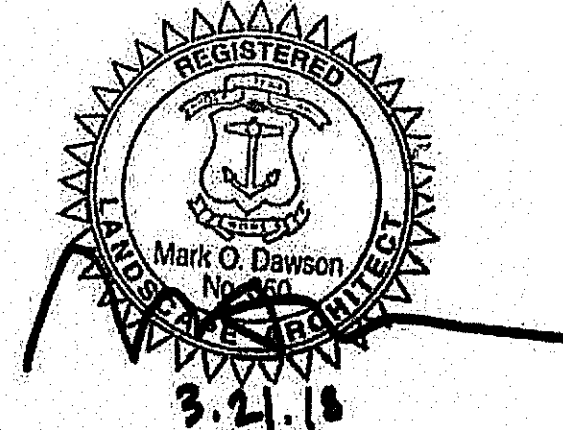
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OWNER/APPLICANT:

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OFFICE OF CAPITAL PROJECTS
60 TOOTELL ROAD
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TEL: 401-874-2725

DWG ISSUE & REVISION HISTORY

Stamp



Key Plan

Project Title:

URI/SOUTH COUNTY
BIKE PATH CONNECTOR

Drawing Title:

PLANTING DETAILS
& SCHEDULE

Project No: 56173.02 Scale: AS NOTED
Drawn By: SW, KS, GCL
Checked By: RM
Approved By: CB
Date: 03/21/2018

Drawing No:

L4.00

Sheet No: 54 Of 54