

Fraternity Circle North

University of Rhode Island
Kingston, Rhode Island

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED 11/14/20 FILE # 20-0299
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Handwritten signature

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

OWNER / APPLICANT:

University of Rhode Island
Office of Capital Projects
60 Tootell Road
Kingstown, RI 02881
(401) 874-2725

CIVIL ENGINEER:

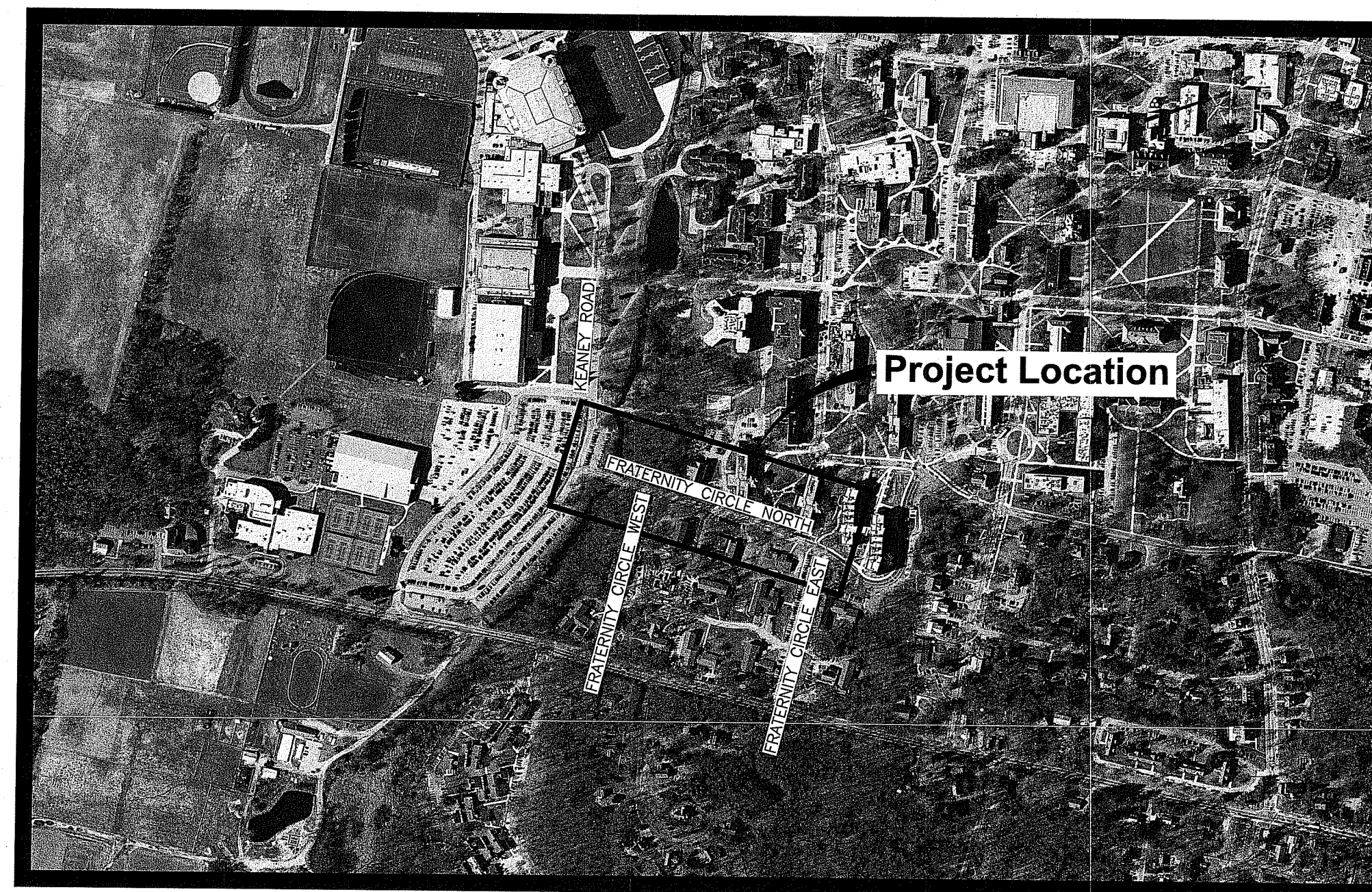


PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

LANDSCAPE ARCHITECT:



Diane C. Soule & Associates, ASLA
Landscape Architecture

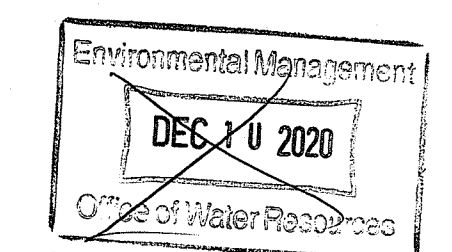
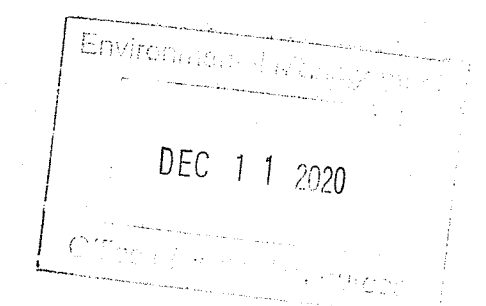


Scale : N.T.S.

INDEX OF DRAWINGS

SHEET No.	DRAWING No.	DESCRIPTION
1	-	COVER SHEET
2	C1.1	NOTES & LEGEND
3	C1.2	TYPICAL SECTIONS
4	C1.3	OVERALL PLAN
5 - 6	C2.1 - C2.2	DEMOLITION, EROSION & SEDIMENT CONTROL PLAN 1 - 2
7 - 8	C3.1 - C3.2	GENERAL PLAN 1 - 2
9 - 10	C4.1 - C4.2	SIGNING & STRIPING PLAN 1 - 2
11 - 12	C5.1 - C5.2	GRADING, DRAINAGE & UTILITY PLAN 1 - 2
13 - 16	C6.1 - C6.4	DETAILS 1 - 4
17	L1.0	LANDSCAPE PLAN
18	L1.1	LANDSCAPE NOTES AND DETAILS

**RIDEM PERMIT SUBMISSION
DECEMBER 11, 2020**



REFERENCE

- PROJECT LOCATION: FRATERNITY CIRCLE, KINGSTON, RI 02881
ASSESSOR'S MAP 23-1; 23-3; 12-4, LOTS 1; 126; 6, 7, 8.
- EXISTING CONDITIONS MAPPING TAKEN FROM PLAN ENTITLED "UNIVERSITY OF RHODE ISLAND FRATERNITY CIRCLE" PREPARED BY YHB, DATED SEPTEMBER 11, 2017.
- EXISTING CONDITIONS COMPILED FROM AVAILABLE RECORD PLANS, "UNIVERSITY OF RHODE ISLAND FRATERNITY CIRCLE IMPROVEMENTS" PREPARED BY MANAFORT EROSION CONTROL, DATED MARCH 31, 2020, "CULVERT REPLACEMENT OF CV1A, CV2, CV3, AND CV4 WHITE HORN BROOK" PREPARED BY GORDON R. ARCHIBALD, INC., DATED APRIL 2010, AND UNIVERSITY OF RHODE ISLAND GIS BASEMAPPING.
- WETLAND FLAGS IDENTIFYING WETLAND RESOURCE AREAS WERE PLACED BY PARE CORPORATION ON NOVEMBER 17, 2020 AND LOCATED BY PARE CORPORATION USING A GPS DEVICE.
- ADDITIONAL INFORMATION COMPILED FROM REPORT ENTITLED "SUPPORTING DOCUMENTATION FOR THE REPLACEMENT OF CULVERTS CV1A, CV2, CV3, AND CV4" PREPARED BY GORDON R. ARCHIBALD, INC., DATED MARCH 2010, LAST REVISED MAY 2010.
- ALL VERTICAL ELEVATIONS ARE BASED ON THE NAVD 1988 DATUM.

GENERAL NOTES

- PER AVAILABLE RIDEM MAPPING, THE PROJECT SITE IS LOCATED OUTSIDE OF A NATURAL HERITAGE AREA.
- THE STATE OF RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AMENDED MARCH 2018 WITH ALL REVISIONS AND ADDENDA, AND THE RHODE ISLAND STANDARD DETAILS ARE MADE A PART HEREOF AS FULLY AND COMPLETELY AS IF ATTACHED HERETO. ALL WORK SHALL MEET OR EXCEED THE RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, WITH LATEST REVISIONS. THE LATEST REVISION 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 FEDERAL, STATE, AND LOCAL REQUIREMENTS.
- 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 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.
- IF ANY DEVIATION OR ALTERATION OF THE WORK PROPOSED ON THESE DRAWINGS IS REQUIRED, THE CONTRACTOR SHALL IMMEDIATELY CONTACT AND COORDINATE ANY DEVIATIONS WITH THE ENGINEER AND OWNER.
- ANY AREA OUTSIDE OF THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
- ALL SITE WORK SHALL MEET OR EXCEED THE SITE WORK SPECIFICATIONS PREPARED FOR THIS PROJECT.
- ALL SIGNS SHALL BE REFLECTORIZED TYPE III SHEETING AND CONFORM WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST REVISION.
- ALL UTILITIES (LOCATION AND ELEVATION) DEPICTED SHALL BE CONSIDERED APPROXIMATE ONLY. BEFORE COMMENCING SITE WORK IN ANY AREA, CONTACT "DIG SAFE" AT 1-888-DIG-SAFE (1-888-344-7233) TO ACCURATELY LOCATE UNDERGROUND UTILITIES. ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES AND THE COST TO REPAIR THE DAMAGES TO INITIAL CONDITIONS, AS DEPICTED ON THE PLANS, SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- NO EXCAVATION SHALL BE DONE UNTIL UTILITY COMPANIES ARE PROPERLY NOTIFIED IN ADVANCE. NOTE THAT NOT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL RESPECTIVE UTILITY COMPANIES TO VERIFY AND LOCATE EXISTING UTILITIES.

LAYOUT NOTES

- ALL LINES ARE PERPENDICULAR OR PARALLEL TO THE LINES FROM WHICH THEY ARE MEASURED UNLESS OTHERWISE INDICATED.
- ACCESSIBLE RAMPS SHALL BE PER THE AMERICANS WITH DISABILITIES ACT (ADA) ACCESSIBILITY GUIDELINES.
- PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL PERFORM BENCHMARK FIELD LEVEL VERIFICATION AND COORDINATE LAYOUT CHECK. THE 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

- THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION OF STRUCTURES, PAVEMENT AND CONCRETE MATERIALS, AND UTILITIES WITH APPROPRIATE PROPOSED SITE GENERAL, GRADING, UTILITY, AND LANDSCAPING DRAWINGS.
- ALL NOTED UTILITIES TO BE REMOVED AND DISPOSED OF, RELOCATED OR CAPPED REPRESENT ALL KNOWN SITE CONDITIONS TO BE DEMOLISHED. THE CONTRACTOR SHALL COORDINATE ALL UNFORESEEN CONDITIONS WITH THE PROJECT ENGINEER, OWNER AND/OR RESPECTIVE UTILITY COMPANIES PRIOR TO PROCEEDING WITH 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 SERVICES DURING THE CONSTRUCTION OPERATION WITHOUT APPROVAL FROM THE OWNER.

STORMWATER MANAGEMENT SYSTEM INSPECTION AND MAINTENANCE NOTES

DURING CONSTRUCTION (CONTRACTOR'S RESPONSIBILITY)

- 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 UNIVERSITY OF RHODE ISLAND. FOLLOWING ACCEPTANCE OF THE PROPOSED DRAINAGE SYSTEM, 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.

POST CONSTRUCTION (OWNER'S RESPONSIBILITY)

- TRASH, LITTER, SEDIMENT AND OTHER DEBRIS SHALL BE REMOVED FROM ANY STORMWATER MANAGEMENT SYSTEM FACILITY (INCLUDING BUT NOT LIMITED TO CATCH BASINS, MANHOLES, INLET, OUTLET AND DIVERSION STRUCTURES, AND STORMWATER BEST MANAGEMENT PRACTICES (BMPs)) A MINIMUM OF TWO TIMES PER YEAR, PREFERABLY IN THE SPRING AND FALL.
- THE PARKING LOT AND ENTRY DRIVE SHALL BE SWEEPED BY THE OWNER AS EARLY AS POSSIBLE EVERY SPRING AND ONCE IN THE FALL TO REMOVE SEDIMENTS.
- ALL CLEANING AND MAINTENANCE OF STORMWATER MANAGEMENT SYSTEMS POST-CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE OWNER.

CATCH BASINS WITH SUMPS INSPECTION, MAINTENANCE, AND REPAIR NOTES

- INSPECTIONS SHALL BE PERFORMED A MINIMUM OF TWO TIMES PER YEAR (SPRING/FALL). UNITS SHALL BE CLEANED ANNUALLY AND WHENEVER THE DEPTH OF SEDIMENT IS GREATER THAN OR EQUAL TO HALF THE SUMP DEPTH.
- THE INLET GRATE SHALL NOT BE WELDED TO THE FRAME OR PAVED OVER SO THAT THE SUMP CAN BE EASILY INSPECTED AND MAINTAINED.
- CARE SHALL BE TAKEN TO AVOID DAMAGING AND DISPLACING HOODS PLACED ON HOODED OUTLETS DURING CLEANING.

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 OWNER.

- THE QUALIFYING PERVIOUS AREAS (OPA'S) MUST BE INSPECTED A MINIMUM OF TWO TIMES PER YEAR FOR SEDIMENT, PONDING, EROSION, AND VEGETATION.
- REMOVE ACCUMULATED SEDIMENT FROM THE OPA'S 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 OPA A MINIMUM OF TWO TIMES ANNUALLY TO MAINTAIN A MINIMUM GRASS HEIGHT OF 6".
- TRASH AND DEBRIS SHALL BE REMOVED FROM THE OPA'S AS NECESSARY.

GRADING AND UTILITY NOTES

- UNDERGROUND UTILITIES DEPICTED WERE COMPILED FROM AVAILABLE RECORD PLANS AND SHALL BE CONSIDERED APPROXIMATE ONLY. BEFORE COMMENCING SITE WORK IN ANY AREA, CONTACT "DIG SAFE" AT 1-888-DIG-SAFE (1-888-344-7233) TO ACCURATELY LOCATE UNDERGROUND UTILITIES. ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES DEPICTED OR NOT DEPICTED ON THE PLANS SHALL BE THE CONTRACTOR'S RESPONSIBILITY. COSTS TO REPAIR SUCH DAMAGES SHALL BE THE CONTRACTOR'S RESPONSIBILITY. NO EXCAVATION SHALL BE DONE UNTIL UTILITY COMPANIES ARE PROPERLY NOTIFIED.
- ALL WORK PERFORMED AND ALL MATERIALS FURNISHED SHALL CONFORM WITH THE LINES AND GRADES ON THE PLANS AND SITE WORK SPECIFICATIONS.
- AT ALL LOCATIONS WHERE EXISTING CURBING OR PAVEMENT ABUT 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 SHALL BE PROVIDED ON A SKETCH TO SCALE OF THE EXISTING UTILITY WITH TIES TO KNOWN POINTS, PHOTOS AND 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 SHALL BE RESTORED TO ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
- GAS, ELECTRIC, AND COMMUNICATIONS ROUTING ARE SUBJECT TO REVIEW AND APPROVAL BY APPROPRIATE UTILITY COMPANIES.
- DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES BY PROVIDING TEMPORARY SUPPORTS OR SHEETING AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
- 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 ADDITIONAL 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 SPECIFIED OTHERWISE.
- THE PROPOSED WALKWAYS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2% AND A MAXIMUM RUNNING SLOPE OF 5% UNLESS OTHERWISE NOTED ON THE GRADING PLAN.

EROSION AND SEDIMENTATION CONTROL NOTES - RHODE ISLAND

- THE CONTRACTOR AND RELEVANT SUBCONTRACTORS SHALL READ AND UNDERSTAND THE RIDES 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 BECOME FAMILIAR WITH THE CONDITIONS ISSUED FOR THE PROJECT BY RIDEN AND BE RESPONSIBLE FOR CONFORMANCE WITH ALL PERMIT REQUIREMENTS AND CONSTRUCTION DOCUMENTS.
- 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 VEHICULAR INGRESS AND EGRESS ON THE CONSTRUCTION SITE AND SHALL BE MAINTAINED TO LIMIT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADS.
- EROSION CONTROL BARRIERS SHALL BE INSTALLED AS SHOWN ON THE EROSION CONTROL PLAN 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 ENSURE THAT CHANNELS, DITCHES AND PIPES ARE CLEAR OF DEBRIS AND THAT THE EROSION CONTROL BARRIERS ARE INTACT. IDENTIFIED DEFICIENCIES SHALL BE CORRECTED 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 HIS WORK TO ALLOW THE FINISHED SUBGRADE ELEVATIONS TO DRAIN PROPERLY WITHOUT PONDING. SPECIFICALLY, ALLOW WATER TO ESCAPE WHERE PROPOSED CURB MAY RETAIN RUNOFF PRIOR TO APPLICATION OF SURFACE PAVING. PROVIDE TEMPORARY POSITIVE DRAINAGE, AS REQUIRED, TO STABILIZED DISCHARGE POINTS.
- 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.
- 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.
- EXISTING AND NEWLY INSTALLED CATCH BASINS AND STORM DRAIN INLETS SHALL BE PROTECTED WITH APPROPRIATE TEMPORARY INLET PROTECTION IN ACCORDANCE WITH THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK.
- DEWATERING WASTE WATERS PUMPED FROM EXCAVATIONS SHALL BE CONVEYED BY HOSE TO AN UPLAND AREA AND DISCHARGED INTO STRAW BALE CORRALS OR SEDIMENTATION BAGS.
- THE CONTRACTOR SHALL NOT REMOVE ANY TEMPORARY SEDIMENT CONTROL BARRIERS UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED.
- CONSTRUCTION SITE WASTE MATERIALS SHALL BE PROPERLY CONTAINED ONSITE AND DISPOSED OFF SITE AT A LOCATION IN ACCORDANCE WITH THE LOCAL AND STATE REGULATIONS.
- RIP-RAP OR OTHER ENERGY DISSIPATORS SHALL BE USED WHERE NECESSARY TO PREVENT SCOUR.
- ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 14 DAYS UPON COMPLETION OF WORK IN THAT AREA.
- ALL DRAINAGE STRUCTURES SHALL BE CLEARED OF ACCUMULATED SEDIMENT PRIOR TO ACCEPTANCE OF FINAL PROJECT.
- NEWLY VEGETATED AREAS SHALL BE MAINTAINED REGULARLY TO ENSURE STABLE VEGETATED SURFACES.
- EROSION AND SEDIMENTATION CONTROLS SHALL BE UTILIZED AS SHOWN ON THE PLANS. POTENTIAL EROSION AND SEDIMENTATION PROBLEMS ASSOCIATED WITH THE CONSTRUCTION OF THE PROJECT SHALL 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 (TD) MAY CONSIST OF A DITCH OR SWALE, OR MAY BE ACHIEVED USING WOOD CHIPS, COIR LOGS, OR SIMILAR MATERIALS.
- TEMPORARY SEDIMENT TRAPS (TST) AND TEMPORARY SWALES (TSW) SHALL BE SIZED BY THE CONTRACTOR USING THE PARAMETERS CONTAINED IN THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK.

LEGEND:

- ATG = ADJUST TO GRADE
- HMA DRIVEWAY
- BCD = 3" MODIFIED CLASS 12.5 HMA
- 8" GRAVEL BORROW SUBBASE COURSE
- BOL = BOLLARD
- CFS = COMPOST FILTER SOCK (SEE DETAIL)
- CM = CUT AND MATCH (SEE DETAIL)
- CTE = CONNECT TO EXISTING
- CW = CROSS WALK (SEE DETAIL)
- DB = REMOVE AND DISPOSE BOLLARD
- DBB = REMOVE AND DISPOSE BITUMINOUS BERM
- DCP = REMOVE AND DISPOSE CONCRETE PAD
- DFO = REMOVE AND DISPOSE FRAME & GRATE
- DFP = REMOVE AND DISPOSE FLEXIBLE PAVEMENT
- DS = REMOVE AND DISPOSE SIGN
- DSW = REMOVE AND DISPOSE SIDEWALK
- DWP = DETECTABLE WARNING PAVER (SEE DETAIL)
- DWW = REMOVE AND DISPOSE PAVED WATERWAY
- ETR = EXISTING TO REMAIN. PROTECT DURING CONSTRUCTION.
- ISCD = INLET SEDIMENT CONTROL DEVICE (SEE DETAIL)
- LS = LOAM AND SEED
- MICROMILL 2" OF EXISTING PAVEMENT
- MMO = INSTALL 2" OF MODIFIED CLASS 12.5 HMA ASPHALT EMULSION TACK COAT BETWEEN HMA LAYERS
- OPA = QUALIFYING PERVIOUS AREA
- RTED = REFER TO ELECTRICAL DRAWINGS
- RTLDO = REFER TO LANDSCAPE DRAWINGS
- RAD = REMOVE AND DISPOSE
- RAR = REMOVE AND RESET
- RAS = REMOVE AND STOCKPILE
- SB = SAND BAG EROSION CONTROL BARRIER (SEE DETAIL)
- SLM = SHARED LANE MARKING (SEE DETAIL)
- TRM = TURF REINFORCEMENT MAT
- 4DY = 4" DOUBLE YELLOW EPOXY RESIN PAVEMENT MARKING
- 12W = 12" SOLID WHITE EPOXY RESIN PAVEMENT MARKING

RIDOT STANDARDS LEGEND:

- 3.4.1 = BRICK/SOLID BLOCK ROUND CATCH BASIN WITH GUTTER INLET
- 4.4.0M = PRECAST 4'-0", 5'-0", OR 6'-0" ROUND CATCH BASIN - R.I. STD. 4.4.0M
- 4.5.1 = PRECAST CONCRETE DROP INLET
- 7.3.0C = GRANITE CURB (CIRCULAR) - R.I. STD. 7.3.0
- 7.3.0S = GRANITE CURB (STRAIGHT) - R.I. STD. 7.3.0
- 7.3.2 = 6'-0" GRANITE TRANSITION CURB - R.I. STD. 7.3.2
- 7.3.5 = GRANITE INLET STONE 5'-0" - R.I. STD. 7.3.5
- 7.3.8 = GRANITE APRON STONE
- 7.3.9 = GRANITE RAMP STONE
- 8.4.0 = 3" PAVED WATERWAY CLASS I-1 - R.I. STD. 8.4.0
- 24.2.0 = SIGN POST SELECTION AND INSTALLATION DETAILS U-CHANNEL POST - R.I. STD. 24.2.0
- 43.1.0M = CEMENT CONCRETE SIDEWALK (MODIFIED) - R.I. STD. 43.1.0M
- 43.3.0M = WHEELCHAIR RAMP (MODIFIED) - R.I. STD. 43.3.0M
- 43.4.1 = DRIVEWAY DEVELOPMENT FOR 6'-0" TRANSITION CURB - R.I. STD. 43.4.1
- 43.5.0 = CEMENT CONCRETE DRIVEWAY R.I. STD. 43.5.0
- 48.1.0M = DETECTABLE WARNING SYSTEM (MODIFIED) - R.I. STD. 48.1.0M



PARE CORPORATION
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SCALE ADJUSTMENT GUIDE
0" = 1"
BAR IS ONE INCH ON ORIGINAL DRAWING

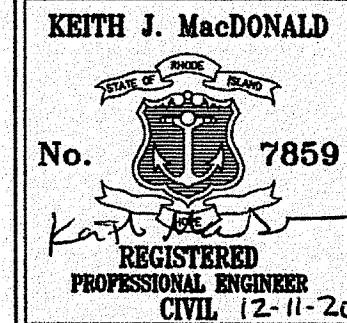
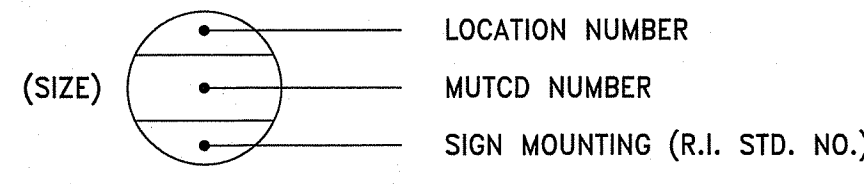
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Environmental Management
DEC 11 2020
Office of Water Resources

TYPICAL SIGN DESIGNATION SYMBOL



REVISIONS:

NO.	DATE	DESCRIPTION

PROJECT NO.: 20002.00
DATE: DECEMBER 2020
SCALE: NOT TO SCALE
DESIGNED BY: KM/KF
CHECKED BY: VH/TT
DRAWN BY: AKL
APPROVED BY: KJM
DRAWING TITLE:

NOTES & LEGEND

DRAWING NO.:
C1.1
SHEET NO. 2 OF 18

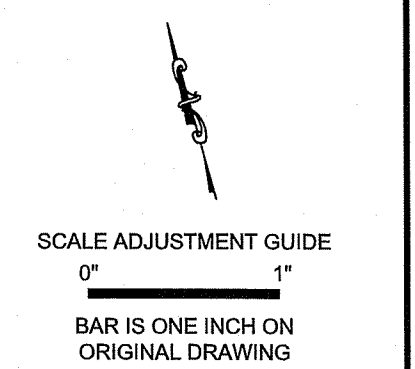
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 401-874-2725



Environmental Management
 DEC 11 2020
 Office of Water Resources

University of Rhode Island
 Fraternity Circle North
 Kingston, RI

KEITH J. MacDONALD
 No. 7859
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL (2-11-24)

REVISIONS:

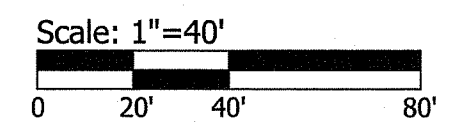
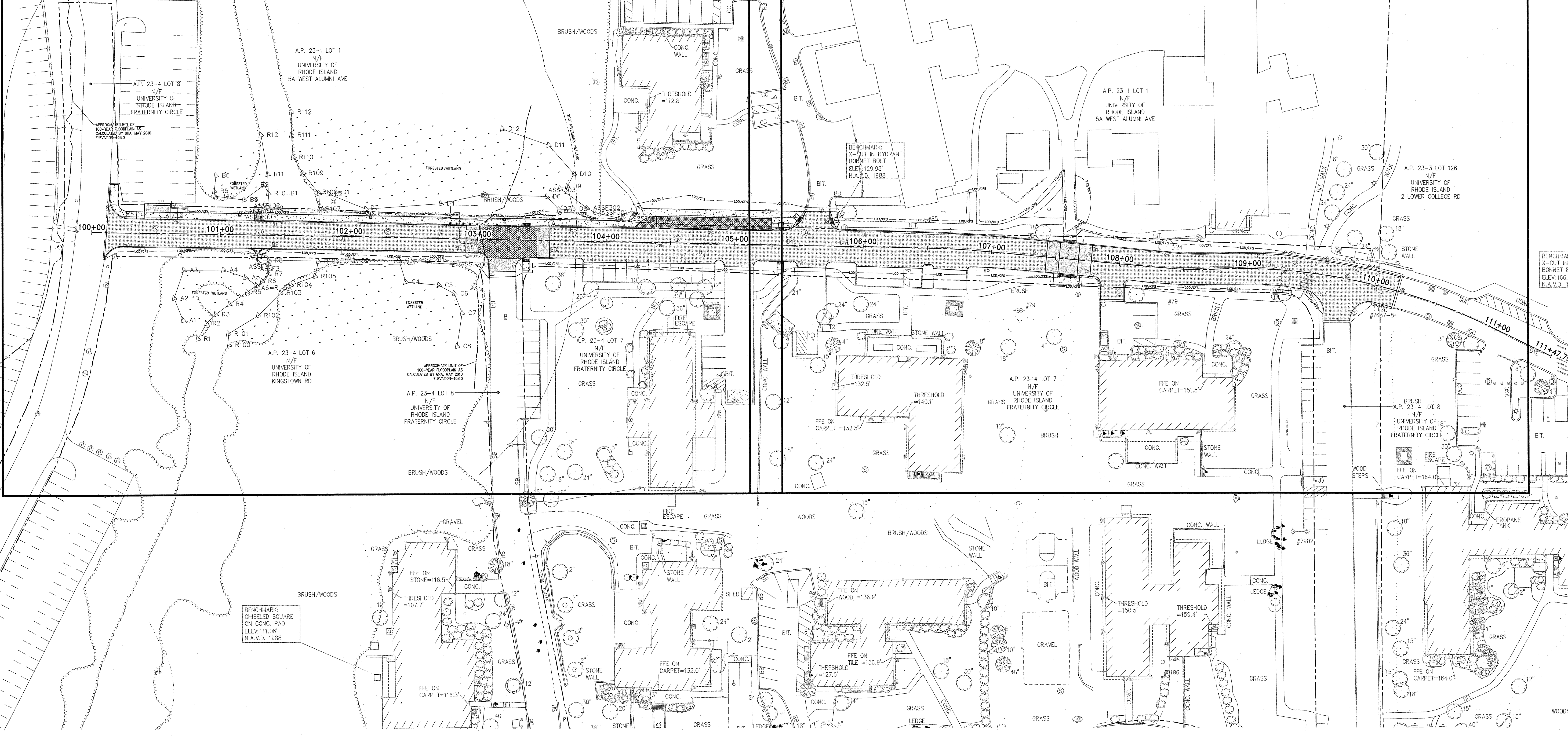
PROJECT NO.: 20002.00
 DATE: DECEMBER 2020
 SCALE: 1"=40'
 DESIGNED BY: KM/KF
 CHECKED BY: VH/TT
 DRAWN BY: AKL
 APPROVED BY: KJM
 DRAWING TITLE:

OVERALL PLAN

DRAWING NO.:
 C1.3
 SHEET NO. 4 OF 18

C2.1, C3.1, C4.1, & C5.1

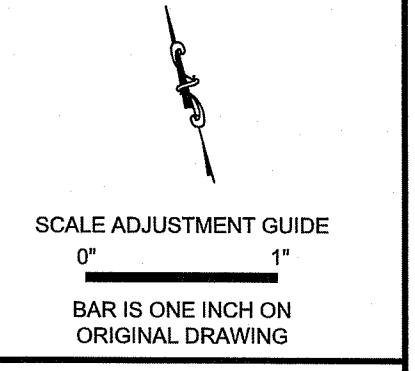
C2.2, C3.2, C4.2, & C5.2





OWNER/APPLICANT:
 UNIVERSITY OF RHODE ISLAND
 OFFICE OF CAPITAL PROJECTS
 80 TOOTELL ROAD
 KINGSTOWN, RI 02881
 401-874-2725

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



Environmental Management
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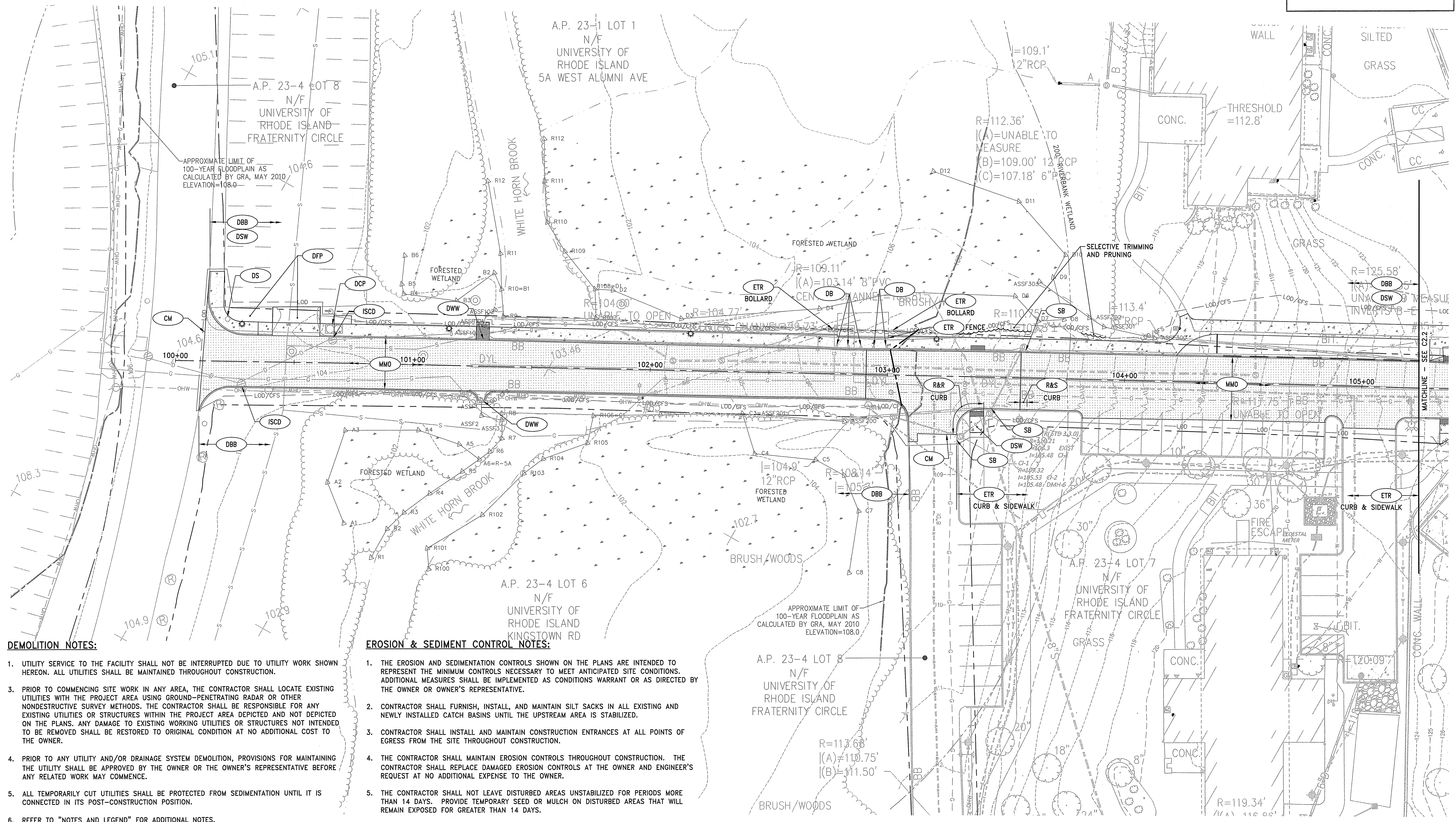
KEITH J. MacDONALD
 No. 7859
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL (2-11-26)

REVISIONS:

PROJECT NO.: 20002.00
 DATE: DECEMBER 2020
 SCALE: 1"=20'
 DESIGNED BY: KM/KF
 CHECKED BY: VH/TT
 DRAWN BY: AKL
 APPROVED BY: KJM

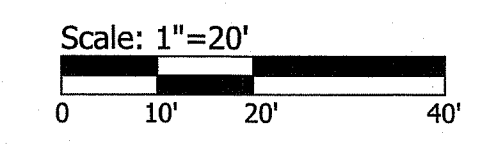
DRAWING TITLE:
 DEMOLITION, EROSION
 & SEDIMENT CONTROL
 PLAN 1

DRAWING NO.:
 C2.1
 SHEET NO. 5 OF 18



- DEMOLITION NOTES:**
- UTILITY SERVICE TO THE FACILITY SHALL NOT BE INTERRUPTED DUE TO UTILITY WORK SHOWN HEREON. ALL UTILITIES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
 - PRIOR TO COMMENCING SITE WORK IN ANY AREA, THE CONTRACTOR SHALL LOCATE EXISTING UTILITIES WITH THE PROJECT AREA USING GROUND-PENETRATING RADAR OR OTHER NONDESTRUCTIVE SURVEY METHODS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EXISTING UTILITIES OR STRUCTURES WITHIN THE PROJECT AREA DEPICTED AND NOT DEPICTED ON THE PLANS. ANY DAMAGE TO EXISTING WORKING UTILITIES OR STRUCTURES NOT INTENDED TO BE REMOVED SHALL BE RESTORED TO ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
 - PRIOR TO ANY UTILITY AND/OR DRAINAGE SYSTEM DEMOLITION, PROVISIONS FOR MAINTAINING THE UTILITY SHALL BE APPROVED BY THE OWNER OR THE OWNER'S REPRESENTATIVE BEFORE ANY RELATED WORK MAY COMMENCE.
 - ALL TEMPORARILY CUT UTILITIES SHALL BE PROTECTED FROM SEDIMENTATION UNTIL IT IS CONNECTED IN ITS POST-CONSTRUCTION POSITION.
 - REFER TO "NOTES AND LEGEND" FOR ADDITIONAL NOTES.

- EROSION & SEDIMENT CONTROL NOTES:**
- THE EROSION AND SEDIMENTATION CONTROLS SHOWN ON THE PLANS ARE INTENDED TO REPRESENT THE MINIMUM CONTROLS NECESSARY TO MEET ANTICIPATED SITE CONDITIONS. ADDITIONAL MEASURES SHALL BE IMPLEMENTED AS CONDITIONS WARRANT OR AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
 - CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN SILT SACKS IN ALL EXISTING AND NEWLY INSTALLED CATCH BASINS UNTIL THE UPSTREAM AREA IS STABILIZED.
 - CONTRACTOR SHALL INSTALL AND MAINTAIN CONSTRUCTION ENTRANCES AT ALL POINTS OF EGRESS FROM THE SITE THROUGHOUT CONSTRUCTION.
 - THE CONTRACTOR SHALL MAINTAIN EROSION CONTROLS THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL REPLACE DAMAGED EROSION CONTROLS AT THE OWNER AND ENGINEER'S REQUEST AT NO ADDITIONAL EXPENSE TO THE OWNER.
 - 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.
 - INSTALL EROSION CONTROLS DOWNSTREAM OF ANY DISTURBED AREAS TO REDUCE POTENTIAL FOR EROSION. CONTRACTOR SHALL INDICATE LOCATIONS OF EROSION CONTROLS FOR REVIEW WITH GENERAL CONTRACTOR AND OWNER'S REPRESENTATIVE PRIOR TO COMMENCING WORK.
 - REFER TO "CIVIL NOTES AND LEGEND" FOR ADDITIONAL NOTES.



DEMOLITION NOTES:

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- REFER TO "NOTES AND LEGEND" FOR ADDITIONAL NOTES.

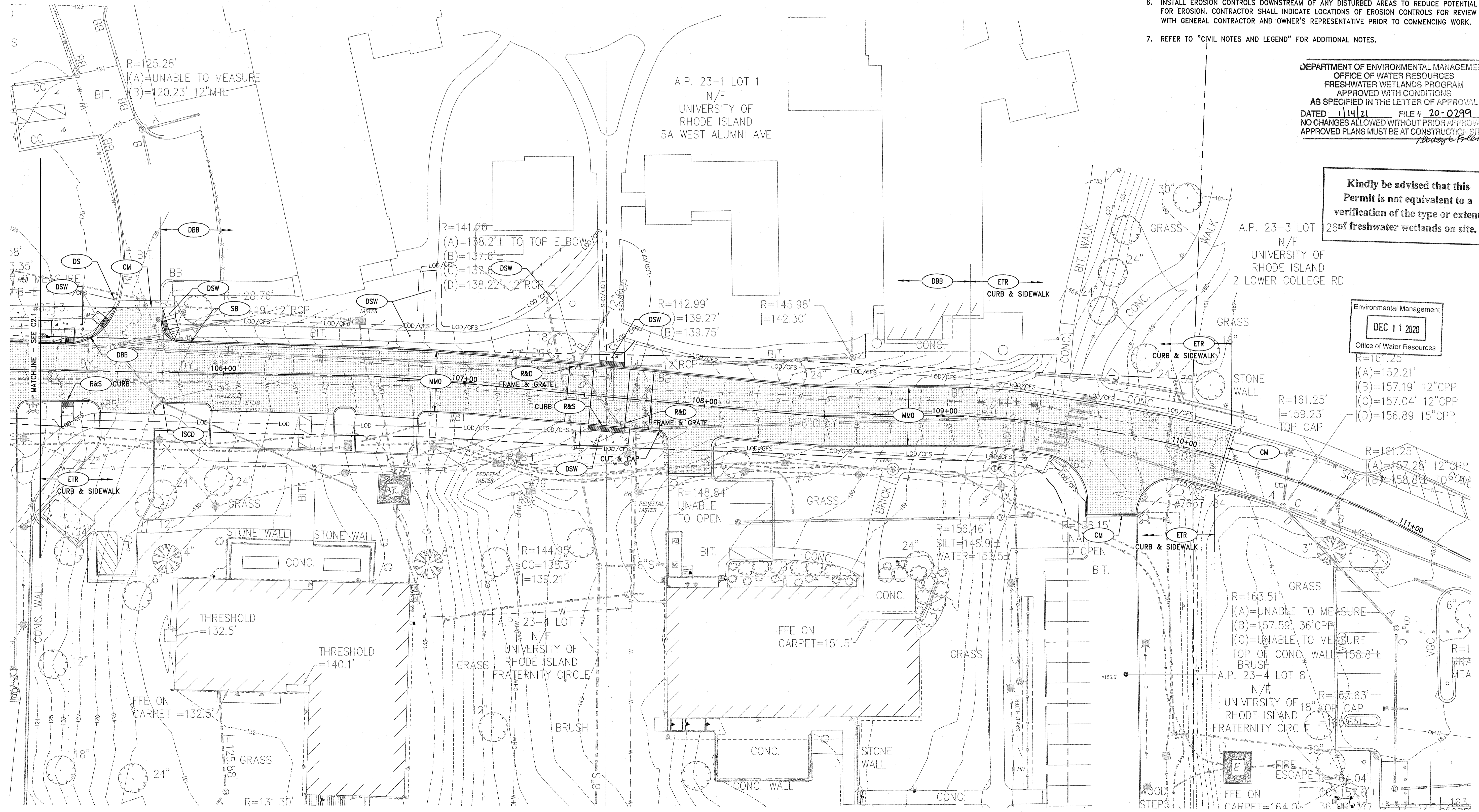
EROSION & SEDIMENT CONTROL NOTES:

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- REFER TO "CIVIL NOTES AND LEGEND" FOR ADDITIONAL NOTES.

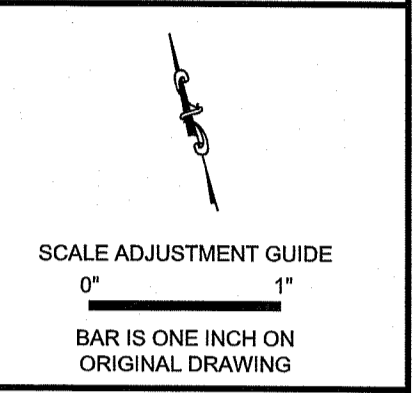
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED 11/14/21 FILE # 20-0299
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

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

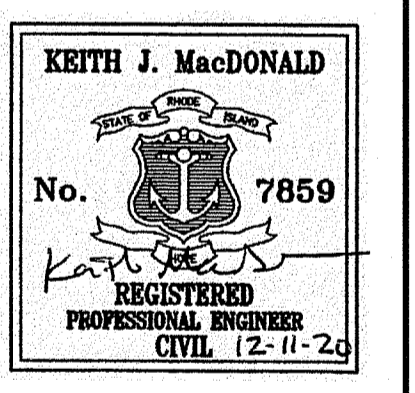
Environmental Management
DEC 11 2020
Office of Water Resources
R=161.25'
(A)=152.21'
(B)=157.19' 12" CPP
(C)=157.04' 12" CPP
(D)=156.89' 15" CPP



OWNER/ APPLICANT:
UNIVERSITY OF RHODE ISLAND
OFFICE OF CAPITAL PROJECTS
60 TOTTEN ROAD
KINGSTOWN, RI 02881
401-874-2725



University of Rhode Island
Fraternity Circle North
Kingston, RI

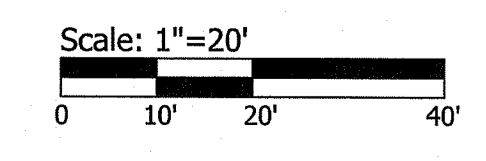


REVISIONS:

NO.	DATE	DESCRIPTION

PROJECT NO.: 20002.00
DATE: DECEMBER 2020
SCALE: 1"=20'
DESIGNED BY: KM/KF
CHECKED BY: VH/TT
DRAWN BY: AKL
APPROVED BY: KJM
DRAWING TITLE:
DEMOLITION, EROSION & SEDIMENT CONTROL PLAN 2

DRAWING NO.: C2.2
SHEET NO. 6 OF 18

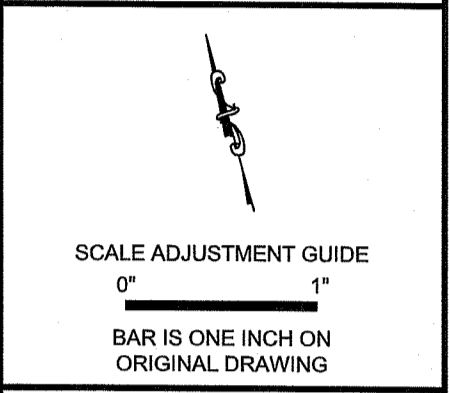


DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED 1/14/21 FILE # 20-0299
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 APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy C. Frankel



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 80 TOOTELL ROAD
 KINGSTOWN, RI 02881
 401-874-2725



University of Rhode Island
 Fraternity Circle North
 Kingston, RI



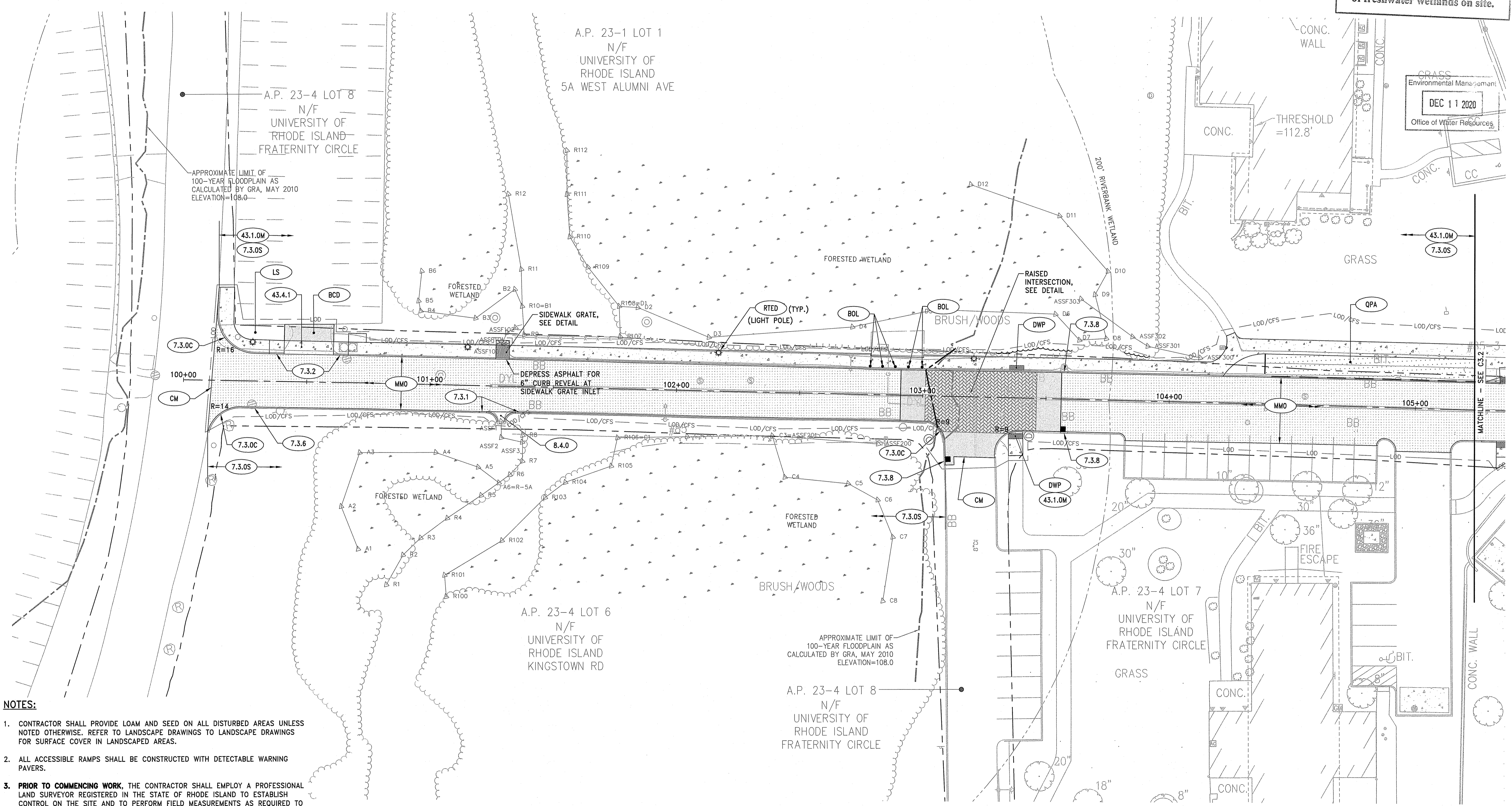
REVISIONS:

NO.	DESCRIPTION

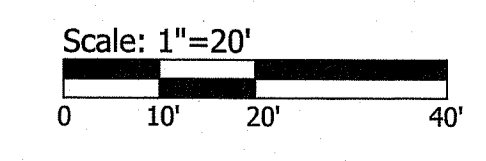
PROJECT NO.: 20002.00
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 SCALE: 1"=20'
 DESIGNED BY: KM/KTF
 CHECKED BY: VH/TT
 DRAWN BY: AKL
 APPROVED BY: KJM
 DRAWING TITLE:

GENERAL PLAN 1

DRAWING NO.:
C3.1
 SHEET NO. 7 OF 18

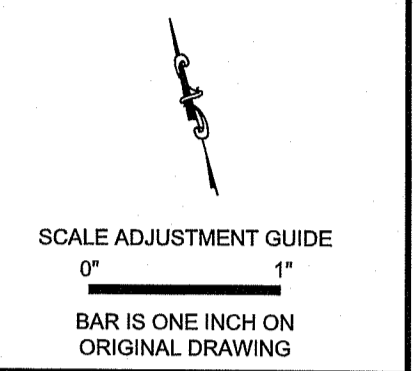


- NOTES:**
- CONTRACTOR SHALL PROVIDE LOAM AND SEED ON ALL DISTURBED AREAS UNLESS NOTED OTHERWISE. REFER TO LANDSCAPE DRAWINGS TO LANDSCAPE DRAWINGS FOR SURFACE COVER IN LANDSCAPED AREAS.
 - ALL ACCESSIBLE RAMPS SHALL BE CONSTRUCTED WITH DETECTABLE WARNING PAVERS.
 - PRIOR TO COMMENCING WORK,** THE CONTRACTOR SHALL EMPLOY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF RHODE ISLAND TO ESTABLISH CONTROL ON THE SITE AND TO PERFORM FIELD MEASUREMENTS AS REQUIRED TO LAYOUT THE PROPOSED BUILDING AND SITE IMPROVEMENTS. THE CONTRACTOR'S SURVEYOR SHALL COORDINATE THE BUILDING LAYOUT WITH THE PROJECT LAND SURVEYOR TO ACCURATELY LOCATE THE BUILDING ON THE SITE.
 - EXPANSION JOINTS (E.J.) 20 FEET O.C. (MAX.) UNLESS OTHERWISE NOTED.
 - CONTROL JOINTS (C.J.) 5 FEET O.C. (MAX.) UNLESS OTHERWISE NOTED.
 - ALL PARKING SPACES AND ISLANDS ARE TO BE MARKED WITH 4" THICK WHITE EPOXY PAVEMENT MARKING UNLESS NOTED OTHERWISE. WATERBORNE PAVEMENT MARKINGS ARE NOT ACCEPTABLE.
 - REFER TO "NOTES AND LEGEND" FOR ADDITIONAL NOTES.



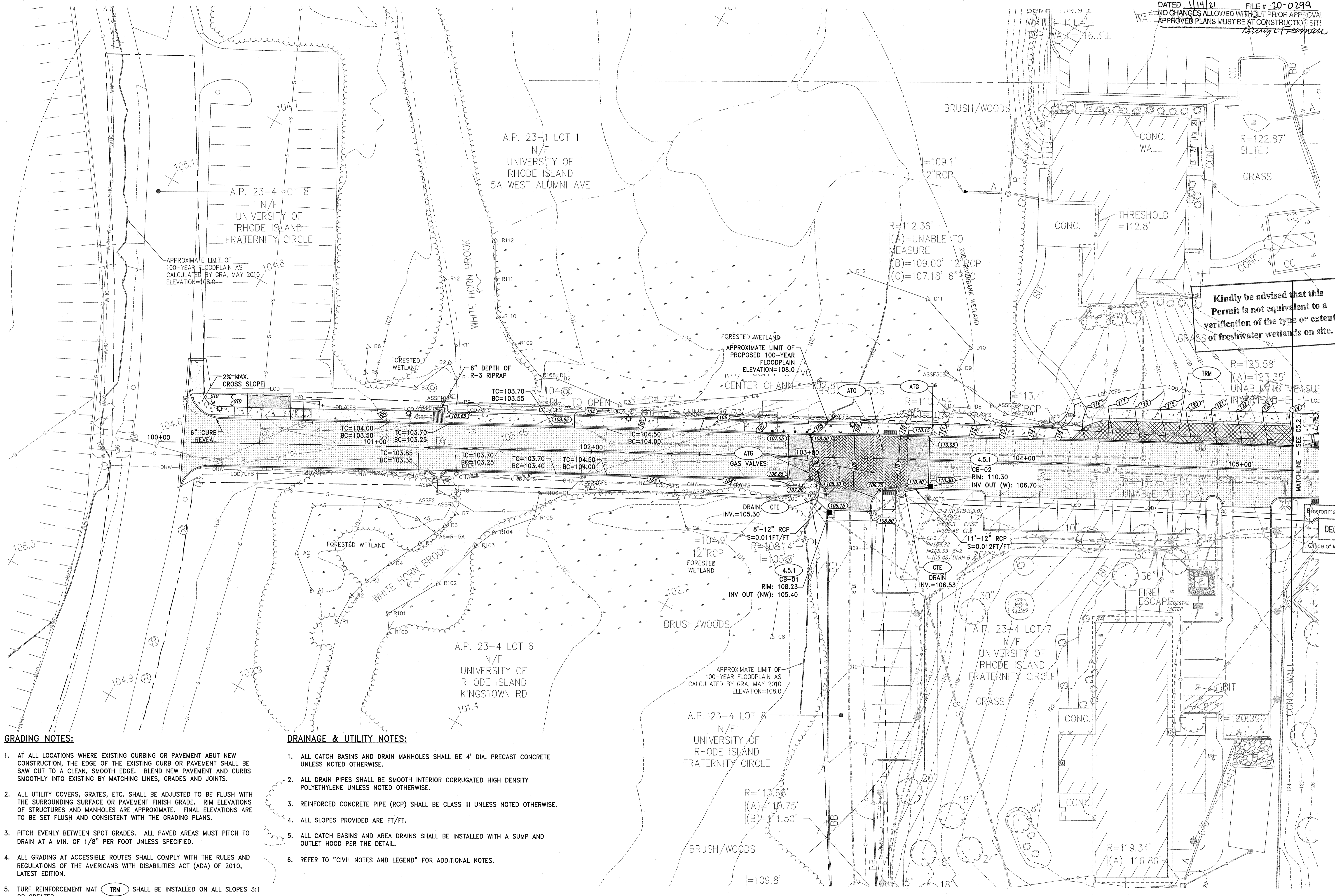


OWNER/APPLICANT:
 UNIVERSITY OF RHODE ISLAND
 OFFICE OF CAPITAL PROJECTS
 60 TOOTELL ROAD
 KINGSTOWN, RI 02881
 401-874-2725



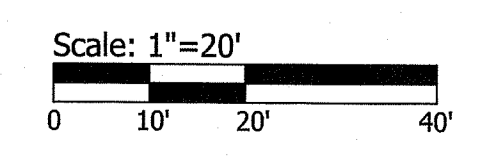
**University of Rhode Island
 Fraternity Circle North**
 Kingston, RI

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- GRADING NOTES:**
1. AT ALL LOCATIONS WHERE EXISTING CURBING OR PAVEMENT ABUT NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH EDGE. BLEND NEW PAVEMENT AND CURBS SMOOTHLY INTO EXISTING BY MATCHING LINES, GRADES AND JOINTS.
 2. 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.
 3. PITCH EVENLY BETWEEN SPOT GRADES. ALL PAVED AREAS MUST PITCH TO DRAIN AT A MIN. OF 1/8" PER FOOT UNLESS SPECIFIED.
 4. ALL GRADING AT ACCESSIBLE ROUTES SHALL COMPLY WITH THE RULES AND REGULATIONS OF THE AMERICANS WITH DISABILITIES ACT (ADA) OF 2010, LATEST EDITION.
 5. TURF REINFORCEMENT MAT (TRM) SHALL BE INSTALLED ON ALL SLOPES 3:1 OR GREATER.
 6. REFER TO "CIVIL NOTES AND LEGEND" FOR ADDITIONAL NOTES.

- DRAINAGE & UTILITY NOTES:**
1. ALL CATCH BASINS AND DRAIN MANHOLES SHALL BE 4' DIA. PRECAST CONCRETE UNLESS NOTED OTHERWISE.
 2. ALL DRAIN PIPES SHALL BE SMOOTH INTERIOR CORRUGATED HIGH DENSITY POLYETHYLENE UNLESS NOTED OTHERWISE.
 3. REINFORCED CONCRETE PIPE (RCP) SHALL BE CLASS III UNLESS NOTED OTHERWISE.
 4. ALL SLOPES PROVIDED ARE FT/FT.
 5. ALL CATCH BASINS AND AREA DRAINS SHALL BE INSTALLED WITH A SUMP AND OUTLET HOOD PER THE DETAIL.
 6. REFER TO "CIVIL NOTES AND LEGEND" FOR ADDITIONAL NOTES.



Environmental Management
 DEC 1 2020
 Office of Water Resources



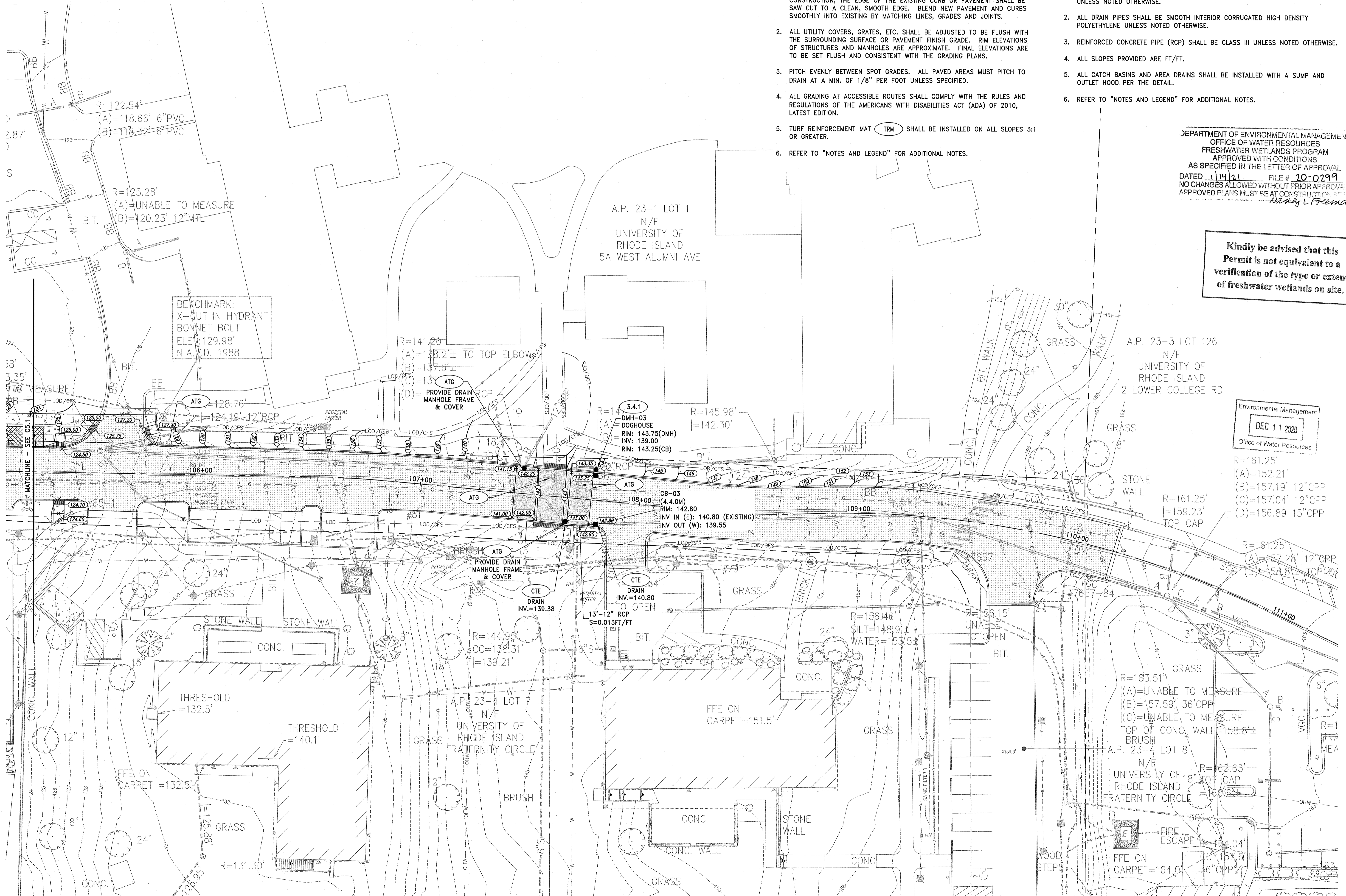
REVISIONS:

No.	Description

PROJECT NO.: 20002.00
 DATE: DECEMBER 2020
 SCALE: 1"=20'
 DESIGNED BY: KM/KF
 CHECKED BY: VH/TT
 DRAWN BY: AKL
 APPROVED BY: KJM
 DRAWING TITLE:

GRADING, DRAINAGE & UTILITY PLAN 1

DRAWING NO.: C5.1
 SHEET NO. 11 OF 18



GRADING NOTES:

1. AT ALL LOCATIONS WHERE EXISTING CURBING OR PAVEMENT ABUT NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH EDGE. BLEND NEW PAVEMENT AND CURBS SMOOTHLY INTO EXISTING BY MATCHING LINES, GRADES AND JOINTS.
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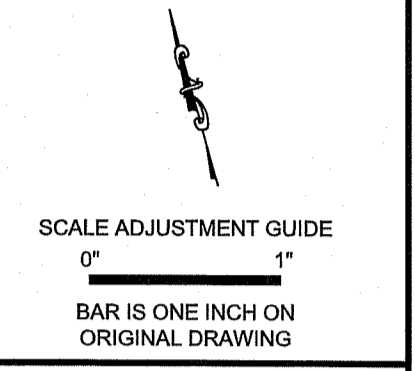
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
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 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy Freeman

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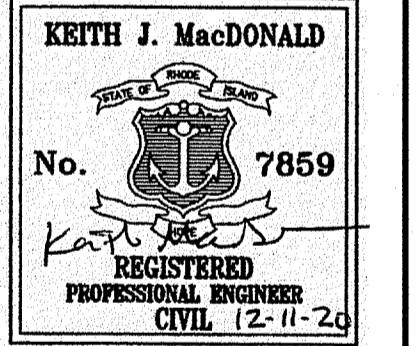
Environmental Management
 DEC 11 2020
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 OFFICE OF CAPITAL PROJECTS
 60 TOOTELL ROAD
 KINGSTOWN, RI 02881
 401-874-2725



University of Rhode Island
 Fraternity Circle North
 Kingston, RI



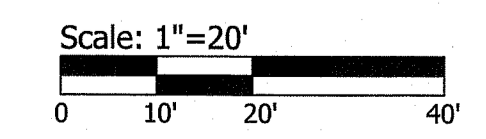
REVISIONS:

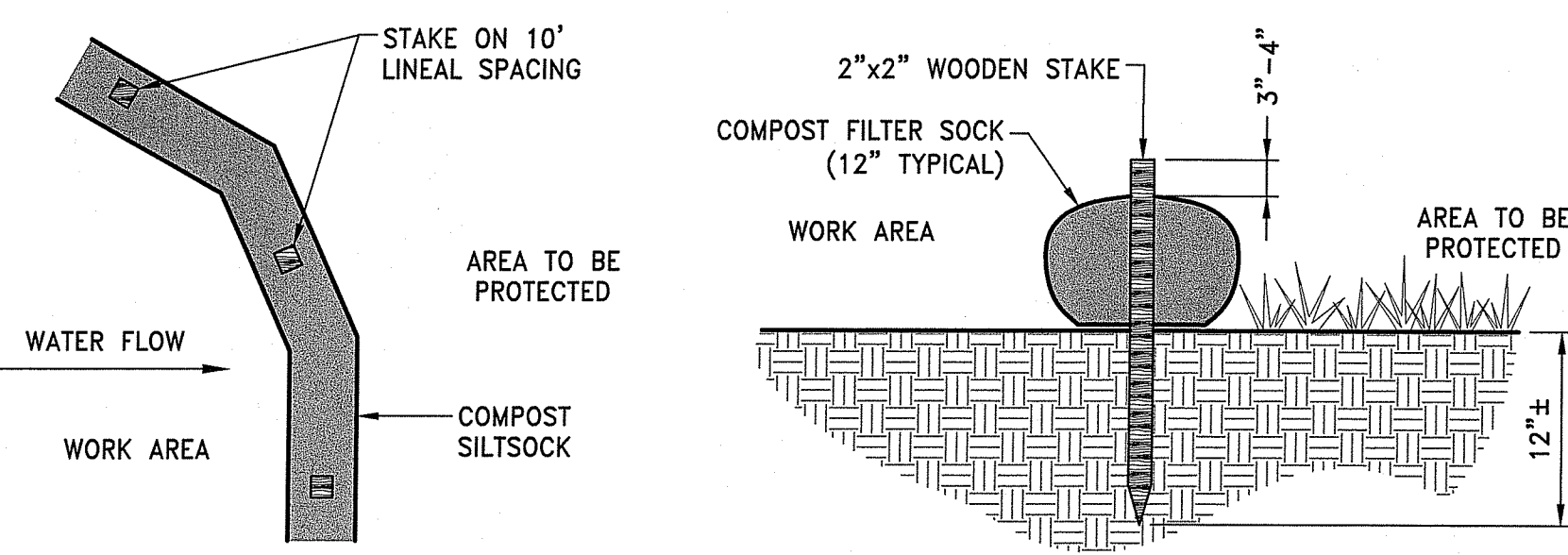
NO.	DESCRIPTION

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 DRAWN BY: AKL
 APPROVED BY: KJM
 DRAWING TITLE:

GRADING, DRAINAGE & UTILITY PLAN 2

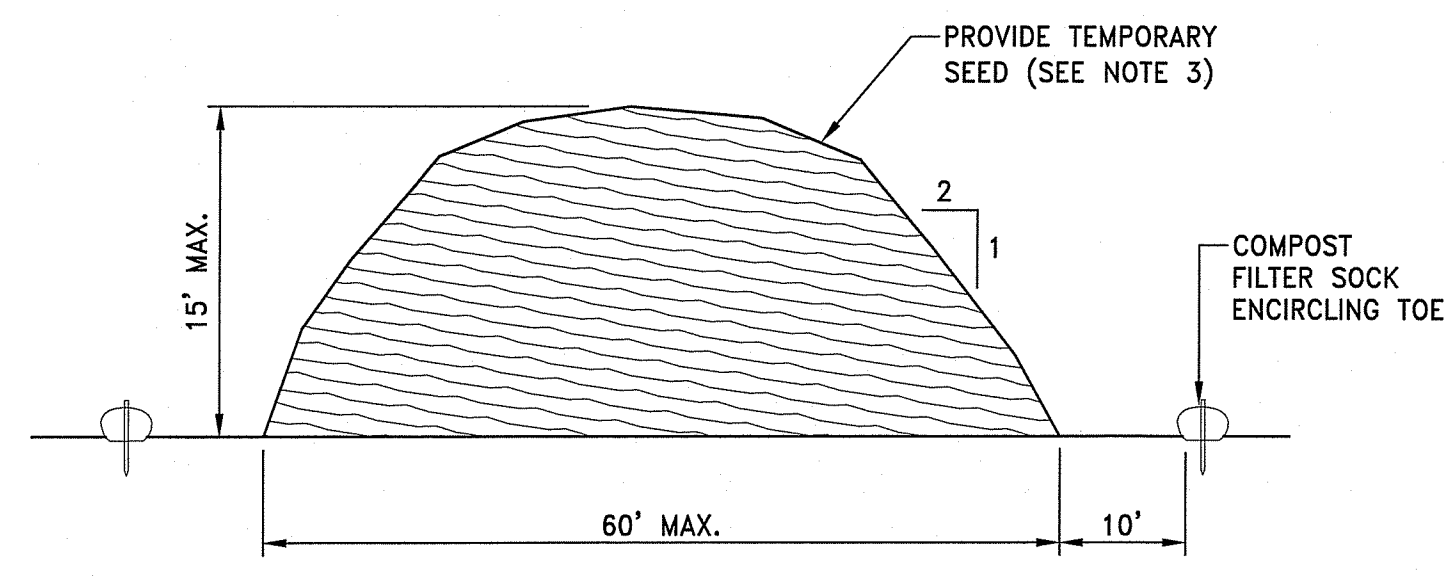
DRAWING NO.: C5.2
 SHEET NO. 12 OF 18





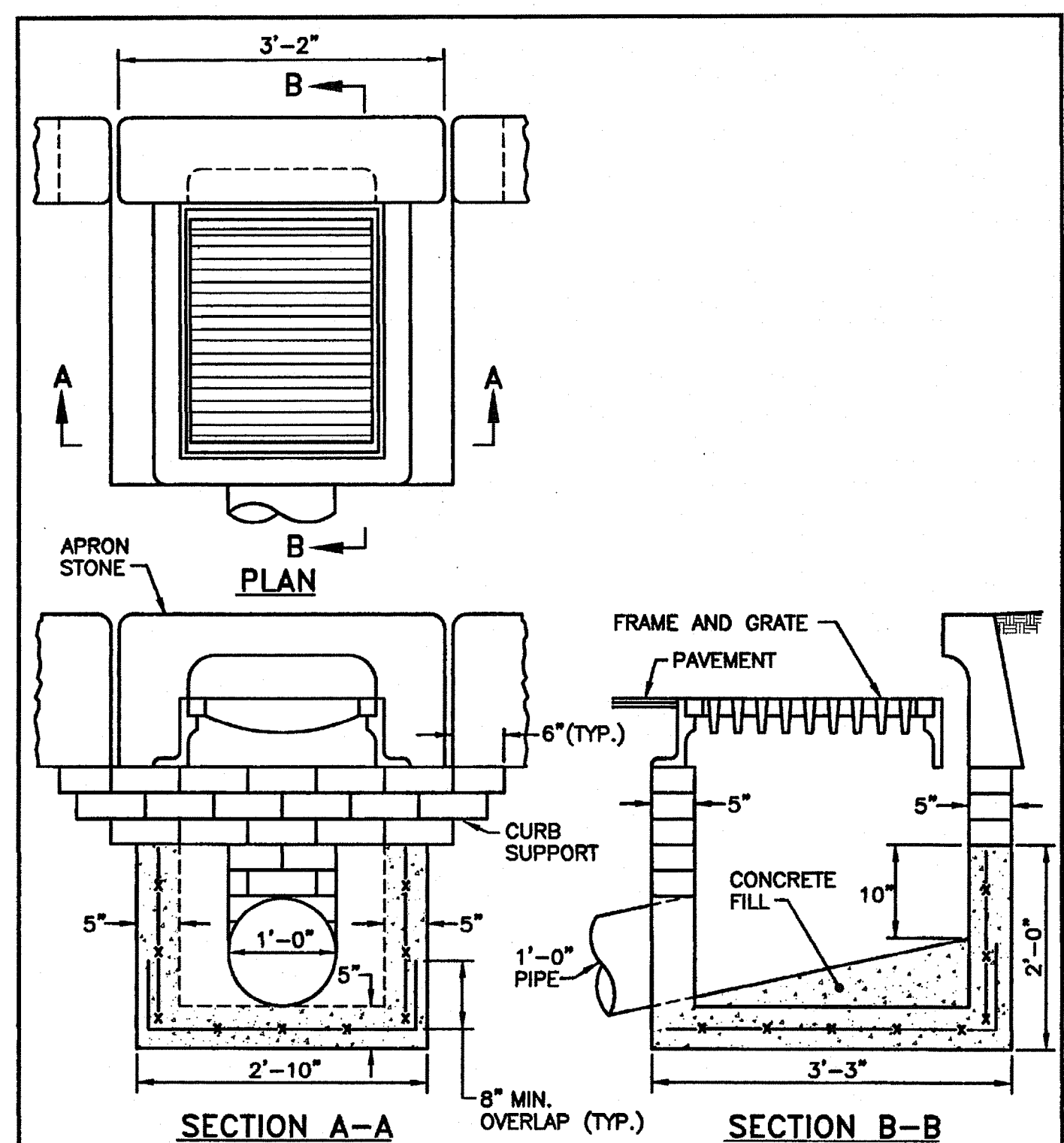
- NOTES:**
1. COMPOST/ SOIL/ ROCK/ SEED FILL TO MEET APPLICATION REQUIREMENTS.
 2. COMPOST MATERIAL TO BE REMOVED OR DISPERSED ON SITE AS DETERMINED BY ENGINEER.
 3. IF SOCK NETTING MUST BE JOINED, FIT BEGINNING OF NEW SOCK OVER END OF OLD SOCK, OVERLAPPING BY 2 FEET AND STACK OVERLAP. IF SOCK NETTING IS NOT JOINED, OVERLAP OLD SOCK WITH NEW ONE BY MINIMUM OF 2 FEET.

CFS COMPOST FILTER SOCK DETAIL
NOT TO SCALE



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

ERODIBLE MATERIAL STOCKPILE
NOT TO SCALE



- NOTES:**
1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
 2. MINIMUM REQUIRED CONCRETE REINFORCEMENT = 0.12 SQ. IN./LIN. FT. (EACH WAY).
 3. MINIMUM COVER ON REINFORCEMENT SHALL BE 2".

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

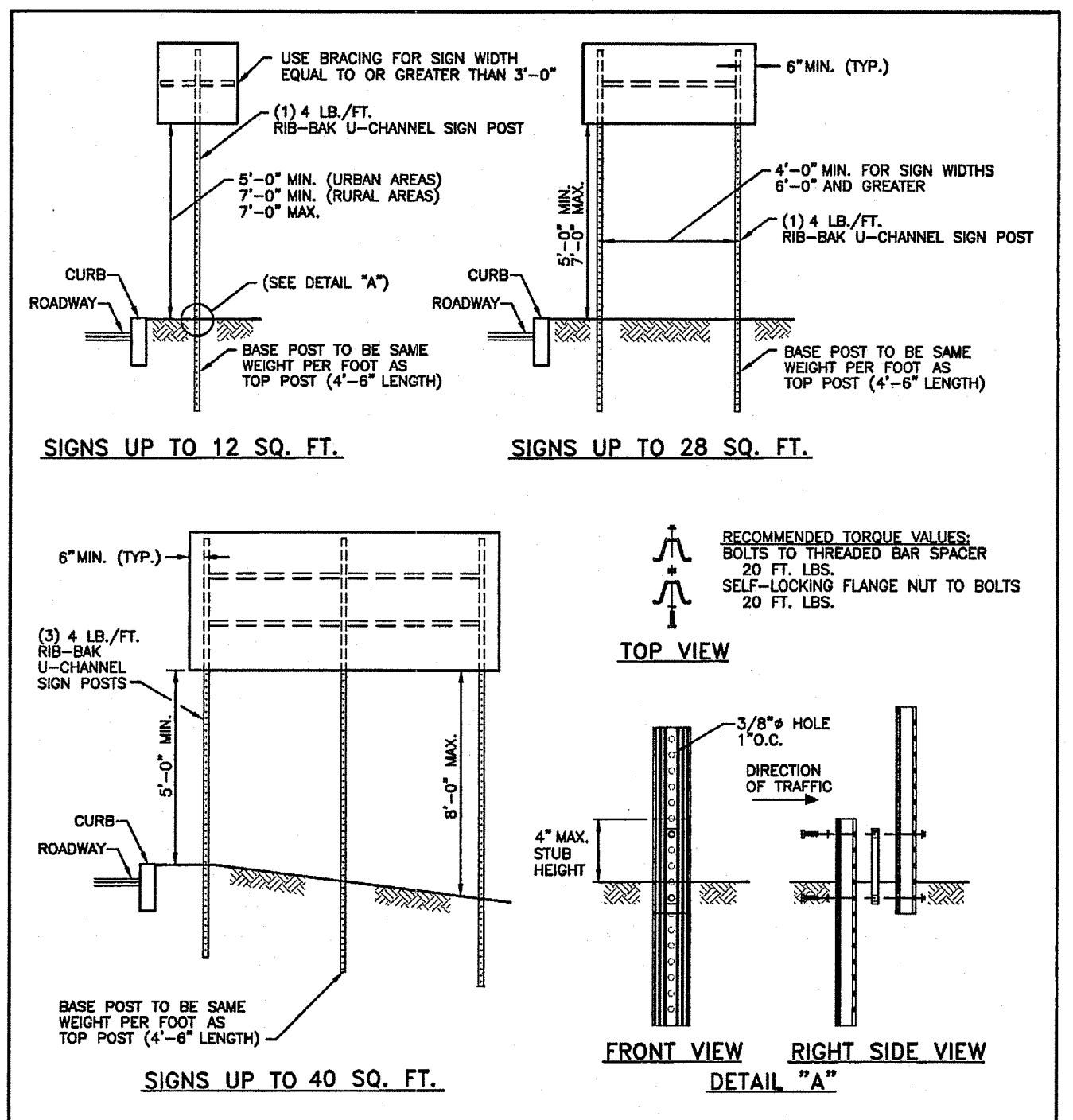
PRECAST CONCRETE DROP INLET LATERAL OUTLET

REVISIONS

NO.	BY	DATE
1	MLP	1/10/05
2	MLP	7/21/06
3	MLP	6/01/10

June 15, 2008

R.I. STANDARD 4.5.1



- INSTALLATION PROCEDURES:**
1. REMOVE A SPADE FULL OF SOIL (APPROXIMATELY 2" DEEP) FROM WHERE THE BASE POST WILL BE LOCATED.
 2. DRIVE THE BASE POST IN THE CENTER OF THE HOLE JUST CREATED, TO WITHIN 4" OF GRADE LEVEL.
 3. PLACE ONE BOLT AND FLAT WASHER IN THE TOP HOLE OF THE BASE POST. IF THE TOP HOLE ON THE BASE POST, OR THE BOTTOM HOLE ON THE TOP POST IS LESS THAN 3/4" FROM END OF THE POST USE THE SECOND AND SIXTH HOLES.) WITH THE THREADED BAR SPACER ALIGNED WITH TOP HOLE ON THE BACK SIDE OF THE BASE POST, SECURELY TIGHTEN THE BOLT TO 20 FT. LBS. OF TORQUE. REPEAT THIS PROCESS FOR THE LOWER BOLT.
 4. NEST THE TOP POST OVER THE PROTRUDING BOLTS ON THE BASE POST. PLACE A SELF-LOCKING FLANGE NUT ON EACH BOLT AND TIGHTEN SECURELY TO 20 FT. LBS. OF TORQUE.
 5. REPLACE SOIL REMOVED IN STEP 1.
 6. IN TRIPLE POST INSTALLATIONS USING 4 LB./FT. POSTS IN WEAK SOIL, A 1'-0" W x 6" H SOIL PLATE IS REQUIRED.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

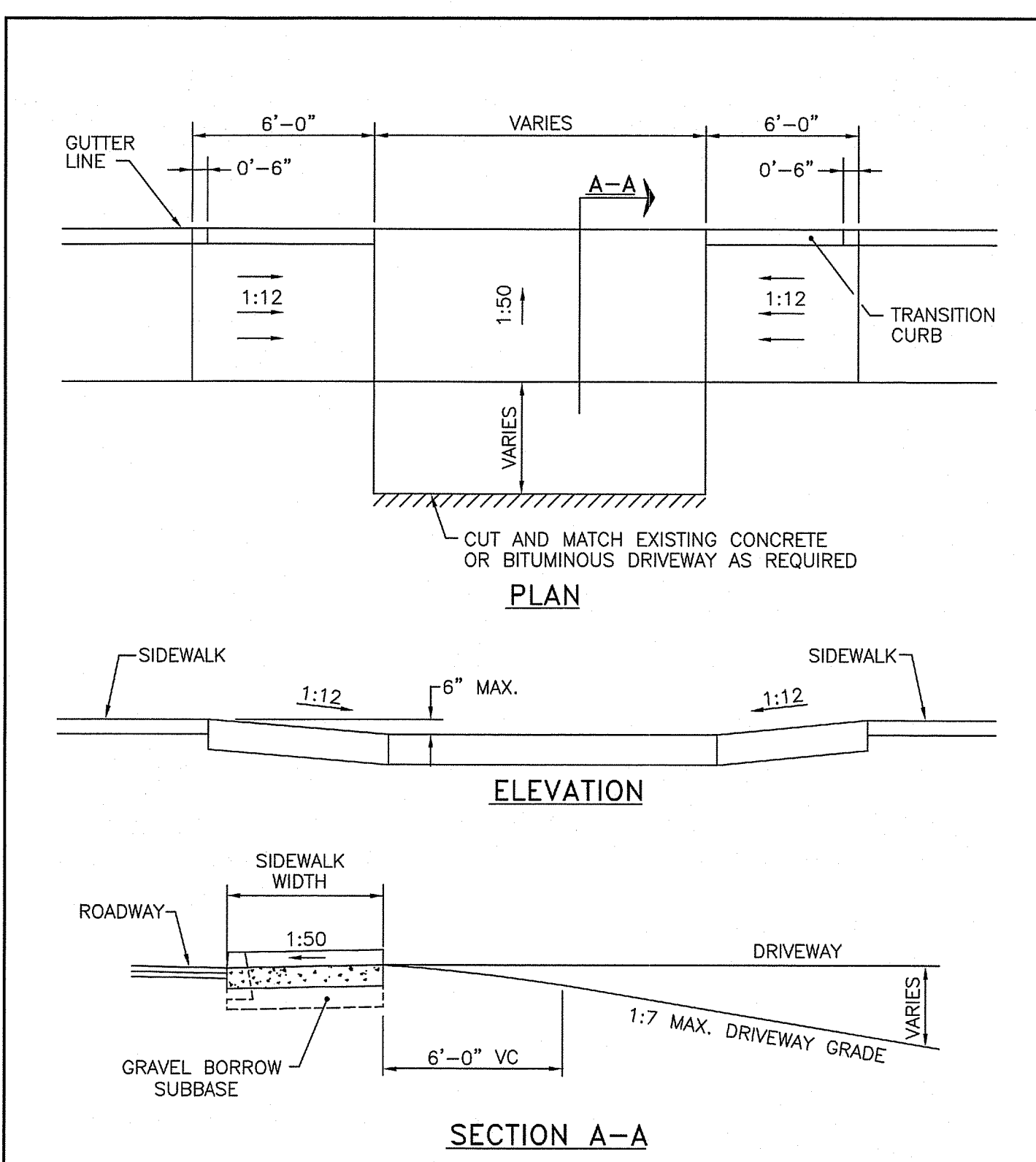
SIGN POST SELECTION AND INSTALLATION DETAILS

REVISIONS

NO.	BY	DATE
1	MLP	3/1/05
2	MLP	6/27/08

June 15, 2008

R.I. STANDARD 4.2.0



- NOTE:** SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

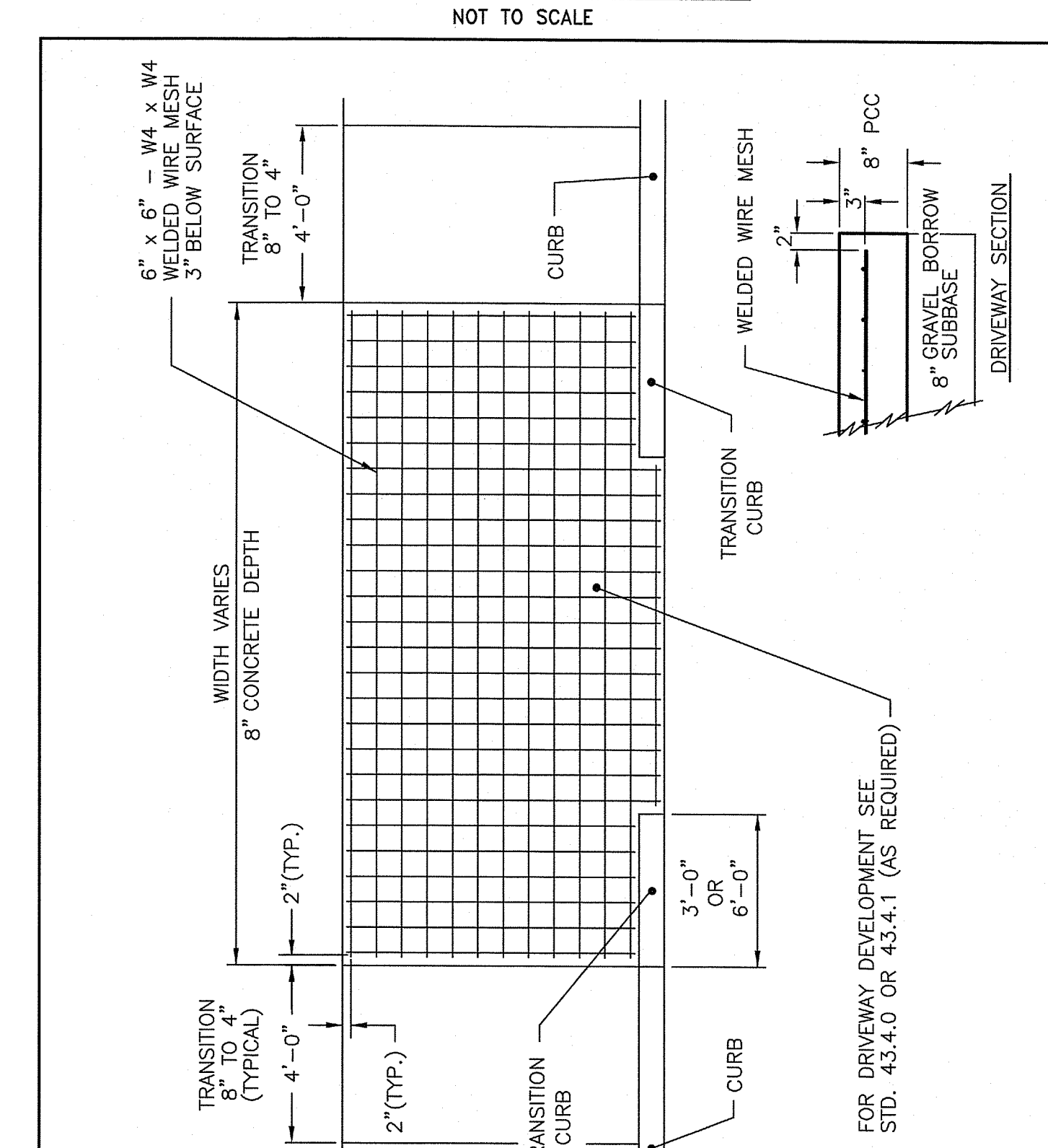
DRIVEWAY DEVELOPMENT FOR 6'-0" TRANSITION CURB

REVISIONS

NO.	BY	DATE
1	MLP	3/1/05
2	MLP	6/27/08

June 15, 2008

R.I. STANDARD 43.4.1



- NOTE:** SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

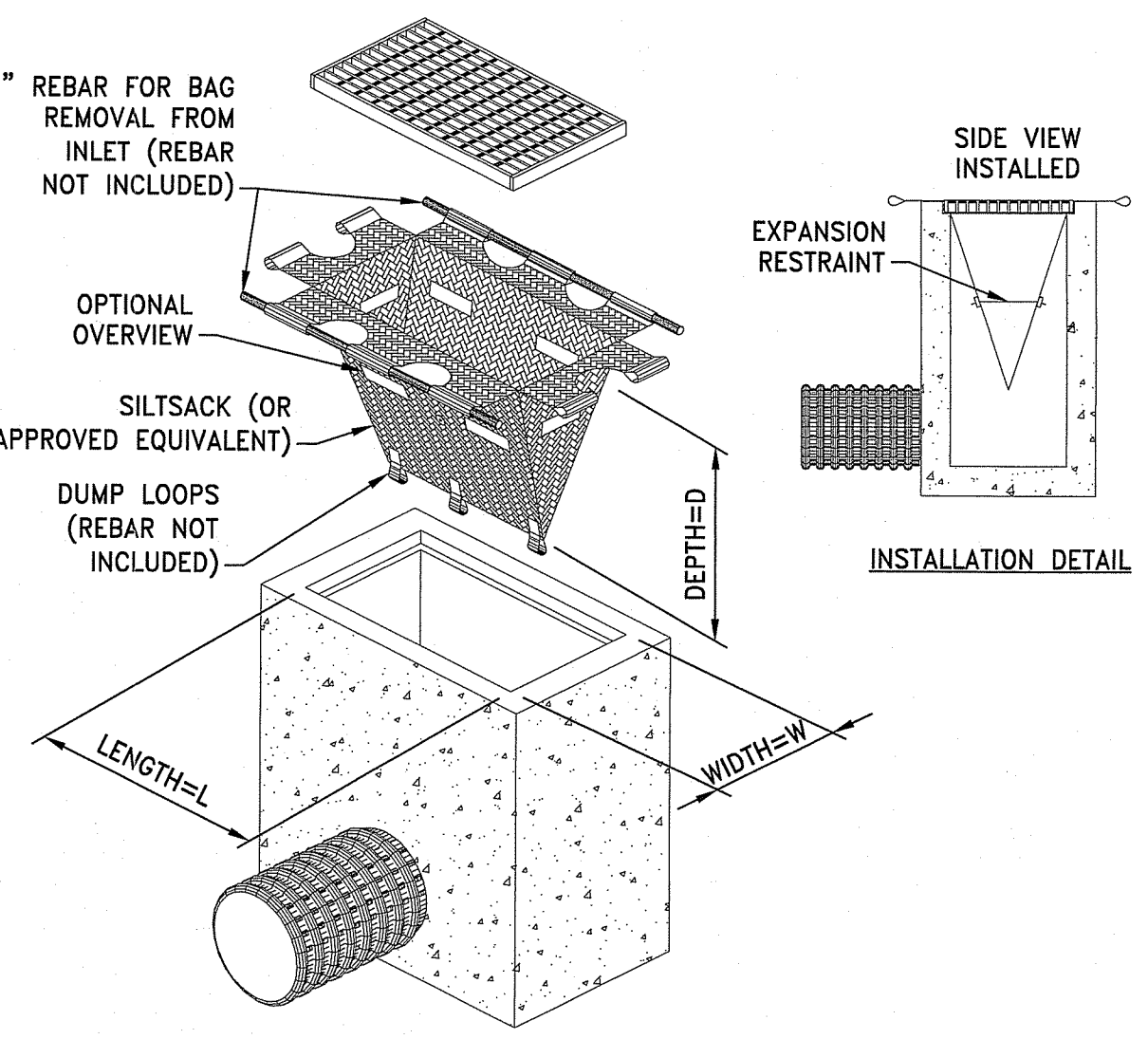
CEMENT CONCRETE DRIVEWAYS

REVISIONS

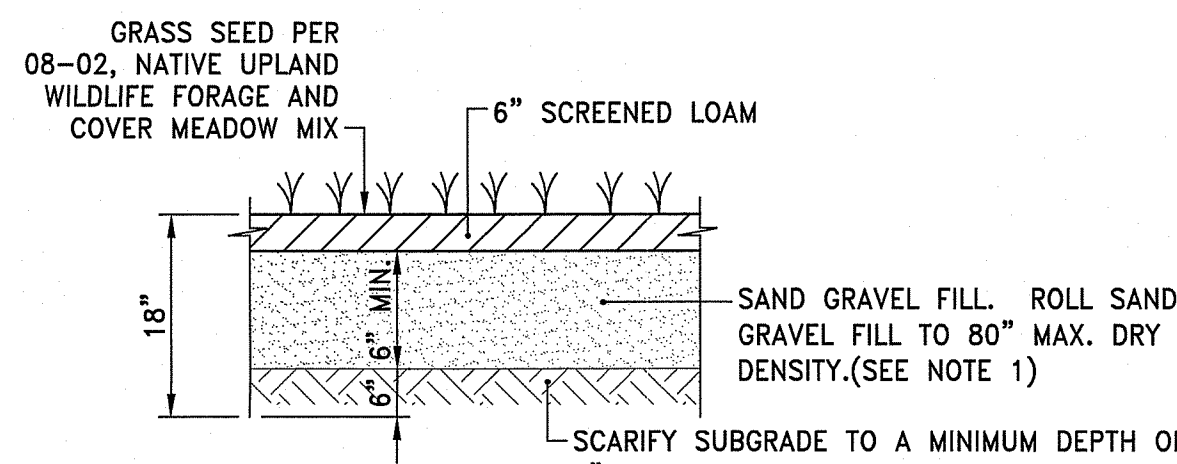
NO.	BY	DATE
1	MLP	1/10/05
2	MLP	7/21/06
3	MLP	6/01/10

June 15, 2008

R.I. STANDARD 43.5.0

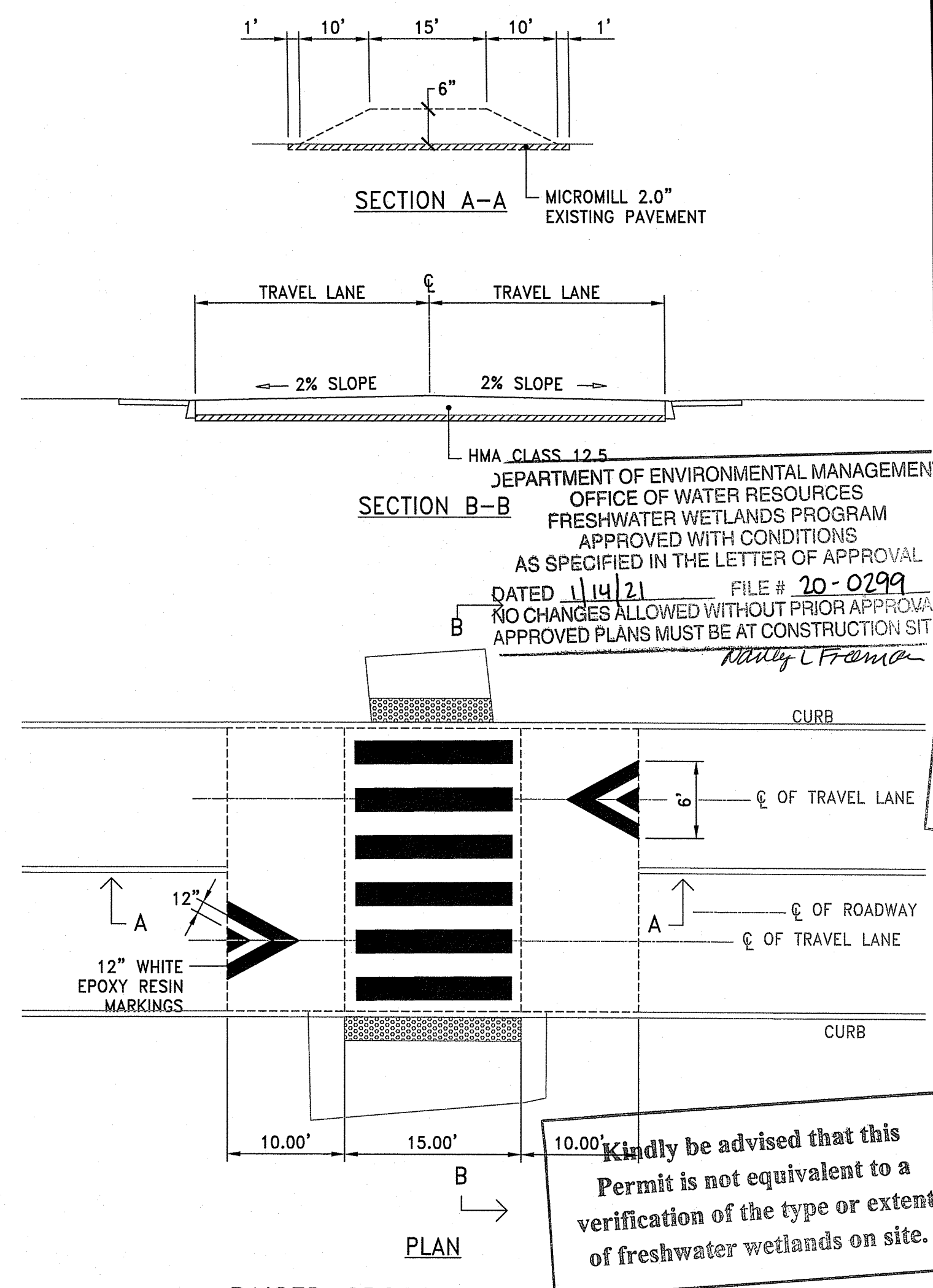


SB SAND BAG EROSION CONTROL BARRIER
NOT TO SCALE



- NOTE:**
1. IF SOIL IN THE OPA HAS BEEN COMPACTED, THE SOIL MUST BE SUITABLY AMENDED, TILLED, AND RE-VEGETATED ONCE CONSTRUCTION IS COMPLETE.

QPA QUALIFYING PEROUS AREA DETAIL
NOT TO SCALE



RAISED CROSSWALK DETAIL
NOT TO SCALE

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



OWNER/ APPLICANT:
UNIVERSITY OF RHODE ISLAND
OFFICE OF CAPITAL PROJECTS
60 TOOTELL ROAD
KINGSTOWN, RI 02881
401-874-2725

SCALE ADJUSTMENT GUIDE
1" = 1' ON ORIGINAL DRAWING

Environmental Management
DEC 11 2020
Office of Water Resources

University of Rhode Island
Fraternity Circle North
Kingston, RI



REVISIONS:

PROJECT NO.: 20002.00
DATE: DECEMBER 2020
SCALE: NOT TO SCALE
DESIGNED BY: KM/KF
CHECKED BY: VH/TT
DRAWN BY: AKL
APPROVED BY: KJM
DRAWING TITLE: DETAILS 1

DRAWING NO.: C6.1
SHEET NO. 13 OF 18

GRANITE APRON STONE (FOR ROUND CATCH BASIN)

NOTES:
 1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
 2. TOP SURFACE TO BE DRESSED BY SAW. REMAINDER MAY BE QUARRY SPLIT.

REVISIONS	
NO.	BY DATE
1	MLP Mar 2005
2	MLP Sep 2012

CHIEF ENGINEER: *James K. Capaldi*
 CHIEF DESIGN ENGINEER: *Edward P. Berube*
 TRANSPORTATION
 JUNE 15, 1998
 ISSUE DATE

R.I. STANDARD 7.3.8

GRANITE INLET STONE (FOR SQUARE CATCH BASIN)

NOTES:
 1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
 2. TOP SURFACE TO BE DRESSED BY SAW. REMAINDER MAY BE QUARRY SPLIT.

REVISIONS	
NO.	BY DATE
1	MLP Mar 2005
2	MLP Sep 2012

CHIEF ENGINEER: *James K. Capaldi*
 CHIEF DESIGN ENGINEER: *Edward P. Berube*
 TRANSPORTATION
 JUNE 15, 1998
 ISSUE DATE

R.I. STANDARD 7.3.5

6'-0" GRANITE TRANSITION CURB

NOTES:
 1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
 2. THE CONTRACTOR MAY CUT EXISTING CURB SECTIONS AS REQUIRED TO MEET THIS DETAIL AND THE R.I. STANDARD SPECIFICATIONS, WHERE OLD CURBING IS BEING REUSED.
 3. TOP SURFACE TO BE DRESSED BY SAW. REMAINDER MAY BE QUARRY SPLIT.

REVISIONS	
NO.	BY DATE
1	MLP Mar 2005
2	MLP Sep 2012

CHIEF ENGINEER: *James K. Capaldi*
 CHIEF DESIGN ENGINEER: *Edward P. Berube*
 TRANSPORTATION
 JUNE 15, 1998
 ISSUE DATE

R.I. STANDARD 7.3.2

GRANITE CURB

NOTES:
 1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
 2. TOP SURFACE TO BE DRESSED BY SAW. REMAINDER MAY BE QUARRY SPLIT.
 3. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR PIECES TO BE 3'-0".
 4. CIRCULAR CURB IS REQUIRED ON CURVES WITH RADI OF 160'-0" OR LESS. STRAIGHT CURB TO BE USED ON CURVES OF MORE THAN 160'-0" RADIUS.

REVISIONS	
NO.	BY DATE
1	MLP Mar 2005
2	MLP Sep 2012

CHIEF ENGINEER: *James K. Capaldi*
 CHIEF DESIGN ENGINEER: *Edward P. Berube*
 TRANSPORTATION
 JUNE 15, 1998
 ISSUE DATE

R.I. STANDARD 7.3.0

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WHEELCHAIR RAMP

ROADWAY PROFILE GRADE	(FT)
0.00	6.0
0.01	7.0
0.02	8.0
0.03	9.5
0.04	11.5
0.05	15.0

NOTES:
 1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
 2. WHEN ANY OBSTRUCTION LOCATED IN THE SIDEWALK FALLS WITHIN A CROSSWALK AREA, THE WHEELCHAIR RAMP SHALL BE PLACED SUCH THAT THE OBSTRUCTION FALLS OUTSIDE OF THE RAMP.
 3. AT NO TIME IS ANY PART OF THE WHEELCHAIR RAMP TO BE LOCATED OUTSIDE OF THE CROSSWALK, AND IT IS TO BE CENTERED WHENEVER POSSIBLE.
 4. DRAINAGE FACILITIES ARE TO BE LOCATED UP-GRADE OF ALL WHEELCHAIR RAMPS.
 5. LOCATION OF WHEELCHAIR RAMPS IS AS SHOWN ON CONTRACT DRAWINGS.
 6. IN NO INSTANCE SHALL THE SIDEWALK CROSS SLOPE EXCEED 1:50 EXCEPT WITHIN THE RAMP AREA.
 7. AN UNOBSTRUCTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 4'-0" SHALL BE MAINTAINED.
 8. THE WHEELCHAIR RAMP SLOPE AND SIDE SLOPES (TRANSITIONS) MUST NOT BE STEEPER THAN 1:12. HOWEVER, THESE SLOPES MAY BE FLATTER THAN 1:12 WHEN WARRANTED BY SURROUNDING CONDITIONS.
 9. WHERE THE ROAD PROFILE EXCEEDS 5% THE HIGH SIDE TRANSITION LENGTH (D) SHALL BE EIGHTEEN FEET (18'-0").
 10. IN NO CASE, WHERE A STOP LINE IS WARRANTED, SHALL A RAMP BE PLACED BEHIND THE STOP LINE.
 11. THE ENTRANCE OF THE WHEELCHAIR RAMP SHALL BE FLUSH WITH THE ROADWAY.
 12. THE WHEELCHAIR RAMP SHALL BE CENTERED RADIALLY, OPPOSITE THE RADIUS POINT WHEN POSSIBLE.
 13. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3'-0" (GREATER LENGTHS PREFERRED).
 14. ALL REQUIRED CUTTING OF CURB PIECES TO BE PAID FOR UNDER COST OF CURB.
 15. DETECTABLE WARNINGS TO BE PAID FOR UNDER SECTION 842 OF THE R.I. STANDARD SPECIFICATIONS.
 16. 8" CONCRETE DEPTH FOR RADIUS WHEELCHAIR RAMPS ONLY. USE 4" DEPTH FOR TANGENT (90-DEGREE) LOCATIONS.

REVISIONS	
NO.	BY DATE
1	MLP Sep 2005
2	MLP Jun 2008
3	MLP Sep 2012

CHIEF ENGINEER: *James K. Capaldi*
 CHIEF DESIGN ENGINEER: *Edward P. Berube*
 TRANSPORTATION
 JUNE 15, 1998
 ISSUE DATE

R.I. STANDARD 43.3.0M

CEMENT CONCRETE SIDEWALK

NOTES:
 1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
 2. FOR CURB SETTING DETAIL REFERENCE STD. 7.6.0.
 3. 6" x 6" - W2.9 x W2.9 WIRE MESH FABRIC REINFORCING SHALL BE IN ACCORDANCE TO R.I. STANDARD SPECIFICATIONS OF SECTION M.05.02.
 4. PROVIDE MEDIUM BROOM FINISH.

REVISIONS	
NO.	BY DATE
1	MLP 3/1/05
2	MLP 06/01/10

CHIEF ENGINEER: *James K. Capaldi*
 CHIEF DESIGN ENGINEER: *Edward P. Berube*
 TRANSPORTATION
 JUNE 15, 1998
 ISSUE DATE

R.I. STANDARD 43.1.0M

PAVED WATERWAY

NOTES:
 1. SHALL BE IN ACCORDANCE WITH SECTION 711 OF THE R.I. STANDARD SPECIFICATIONS.
 2. WHEN PAVED WATERWAY IS USED AT A LOW POINT THIS ANGLE SHALL BE 90°.

REVISIONS	
NO.	BY DATE
1	MLP Mar 2005
2	MLP Sep 2012

CHIEF ENGINEER: *James K. Capaldi*
 CHIEF DESIGN ENGINEER: *Edward P. Berube*
 TRANSPORTATION
 JUNE 15, 1998
 ISSUE DATE

R.I. STANDARD 8.4.0

GRANITE RAMP STONE

NOTES:
 1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
 2. TOP SURFACE TO BE DRESSED BY SAW TO PROVIDE NO-SLIP SURFACE; REMAINDER MAY BE QUARRY SPLIT.
 3. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR RAMP STONE TO BE 4'-0".
 4. CIRCULAR RAMP STONE IS REQUIRED ON CURVES WITH RADI OF 160'-0" OR LESS. STRAIGHT RAMP STONE TO BE USED ON CURVES OF MORE THAN 160'-0" RADIUS.
 5. RAMP STONE SHALL BE SET IN ACCORDANCE WITH STD. 43.3.0 AND IN CONJUNCTION WITH STD. 43.3.0M.

REVISIONS	
NO.	BY DATE
1	MLP Jun 2010
2	MLP Sep 2012

CHIEF ENGINEER: *James K. Capaldi*
 CHIEF DESIGN ENGINEER: *Edward P. Berube*
 TRANSPORTATION
 JUNE 27, 2008
 ISSUE DATE

R.I. STANDARD 7.3.9

