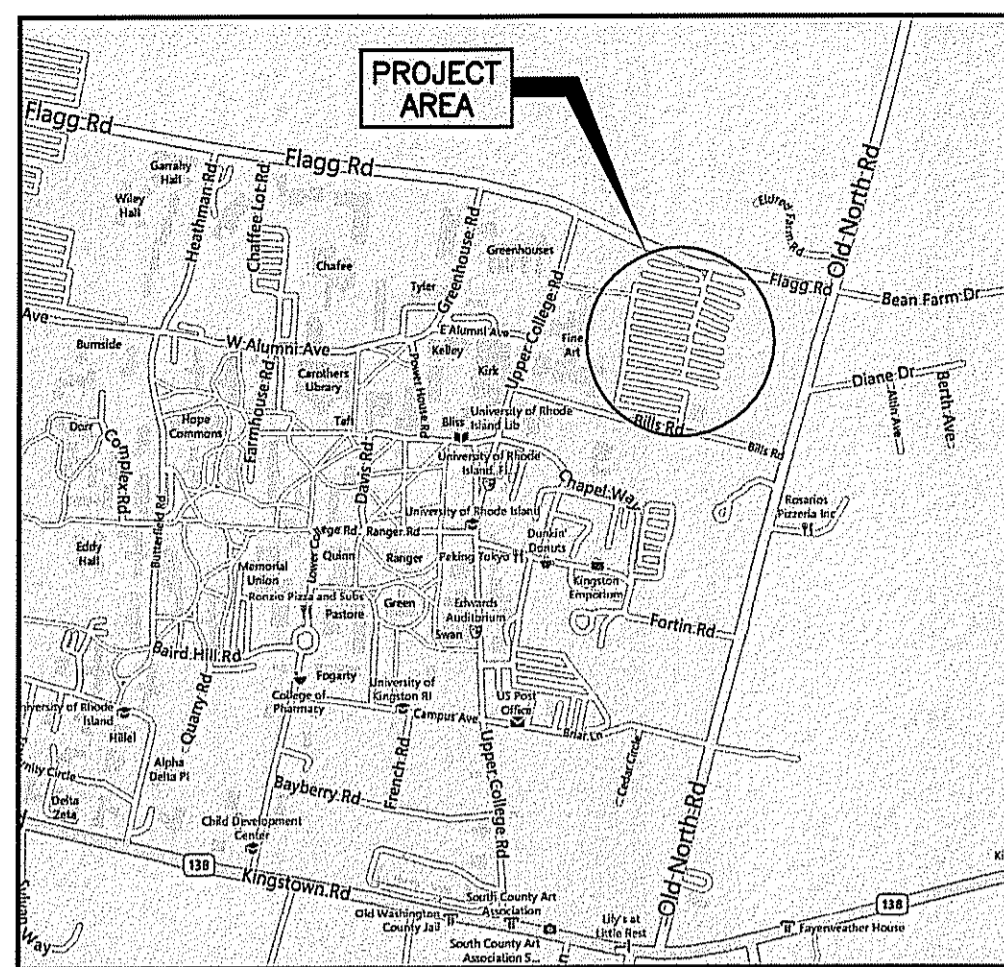


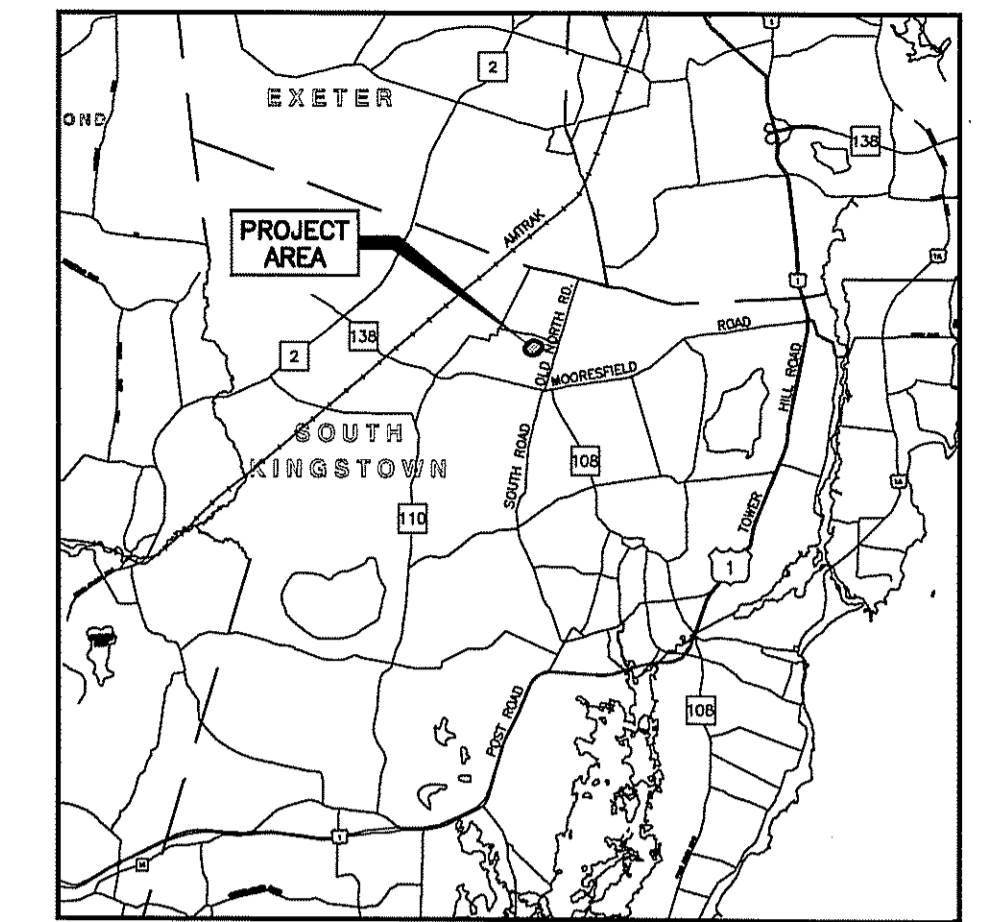
UNIVERSITY OF RHODE ISLAND

Office of Capital Projects

PLANS AND DETAILS OF PROPOSED FINE ARTS CENTER PARKING LOT KINGSTON, RHODE ISLAND



LOCATION MAP
NOT TO SCALE



LOCATION MAP
SCALE: 1" = 2 Miles

INDEX

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES & LEGEND
3	EXISTING CONDITIONS PLAN
4	GENERAL PLAN
5	DRAINAGE & UTILITY PLAN
6	GRADING PLAN
7	SIDEWALK GRADING DETAILS
8	LOCATION PLAN
9	TYPICAL SECTIONS
10 - 12	DETAILS 1 - 3
13 & 14	PLANTING PLANS L-1.0 & L-1.1



UNIVERSITY OF
Rhode Island



OCTOBER 2014

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED OCT 23 2014 FILE # H-0133
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

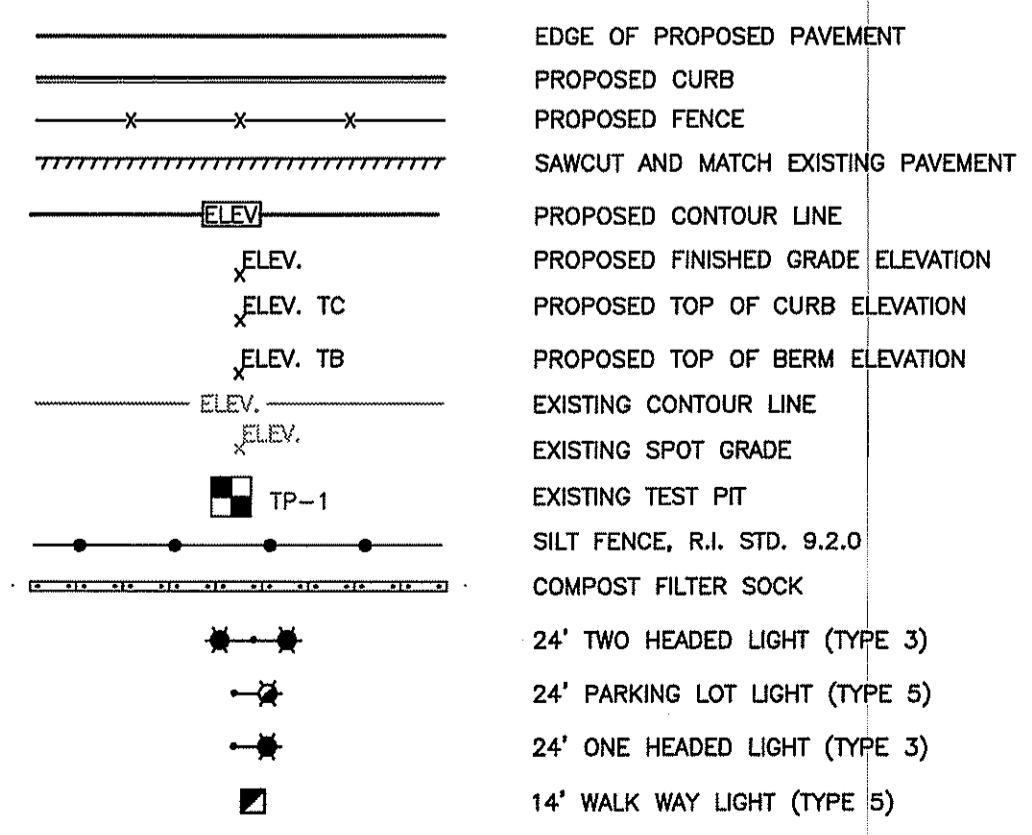
TODD A. BAVENELLE
No. 5928
REGISTERED
PROFESSIONAL ENGINEER

REGULATORY
PERMIT
APPLICATION
SUBMISSION

OCT 15 2014

LEGEND

- (2.1.0) CONCRETE HEADWALLS FOR PIPE CULVERTS
- (4.2.0) PRECAST 4'-0" ROUND MANHOLE
- (4.2.2) PRECAST 6'-0" ROUND MANHOLE
- (4.3.0) PRECAST 4'-0" OR 6'-0" SQUARE MANHOLE OR CATCH BASIN
- (4.4.0) (DIA.) PRECAST 4'-0", 5'-0", OR 6'-0" ROUND CATCH BASIN
- (4.5.0) PRECAST CONCRETE DROP INLET
- (4.7.0) TOP COVER MONOLITHIC WITH RISER SECTION FOR 4'-0" OR 6'-0" SQUARE CATCH BASIN AND MANHOLES
- (5.3.0) CATCH BASIN AND MANHOLE STEP
- (6.2.1) HEAVY-DUTY ROUND FRAME AND COVER
- (6.3.0) SQUARE FRAME AND GRATE
- (6.3.2) SQUARE FRAME AND GRATE (BICYCLE SAFE)
- (7.1.0) PRECAST CONCRETE CURB
- (7.1.2) 6'-0" PRECAST CONCRETE TRANSITION CURB
- (7.3.0) GRANITE CURB
- (7.3.1) 3'-0" GRANITE TRANSITION CURB
- (7.3.2) 6'-0" GRANITE TRANSITION CURB
- (7.3.4) GRANITE 2'-0" RADIUS CORNER
- (7.6.0) CURB SETTING DETAIL
- (9.2.0) SILT FENCE DETAIL
- (9.9.0) CONSTRUCTION ACCESS
- (20.1.0) PAVEMENT MARKINGS - ARROWS AND ONLY
- (24.2.0) SIGN POST SELECTION AND INSTALLATION DETAILS U-CHANNEL POST
- (24.6.0) PARKING SIGN MOUNTING DETAIL
- (31.2.0) CHAIN LINK FENCE 5'-0" TO 6'-0"
- (31.2.1) CHAIN LINK FENCE 5'-0" TO 6'-0" INTERMEDIATE POST
- (43.1.0) CEMENT CONCRETE SIDEWALK
- (48.1.0) DETECTABLE WARNING SYSTEM
- (51.1.0) TREE PROTECTION DEVICE
- (51.1.1) DRIP LINE TREE PROTECTION DEVICE FOR EXISTING TREES
- (AB) ADJUST CATCH BASIN TO GRADE
- (ABM) ADJUST CATCH BASIN TO MANHOLE
- (AD) ADJUST DRAINAGE MANHOLE TO GRADE
- (AS) ADJUST SANITARY SEWER MANHOLE TO GRADE
- (CCB) CLEAN CATCH BASIN
- (CFF) CLEAN AND FLUSH PIPE
- (CFS) COMPOST FILTER SOCK
- (CG) CLEARING AND GRUBBING
- (CMH) CLEAN MANHOLE
- (DCB) REMOVE AND DISPOSE CATCH BASIN
- (DF) REMOVE AND DISPOSE FENCE
- (DFE) REMOVE AND DISPOSE FLARED END SECTION
- (DMH) REMOVE AND DISPOSE MANHOLE
- (DOW) REMOVE AND DISPOSE OVERHEAD WIRES
- (DP) REMOVE AND DISPOSE PIPE
- (DS) REMOVE AND DISPOSE SIGN
- (DSW) REMOVE AND DISPOSE SIDEWALK
- (DTG) REMOVE AND DISPOSE TIMBER GUARDRAIL
- (DUE) REMOVE AND DISPOSE UNDERGROUND ELECTRIC
- (DUP) REMOVE AND DISPOSE UTILITY POLE
- (LOD) LIMIT OF DISTURBANCE
- (LS) 4" LOAM AND SEED
- (RCF) REMOVE AND DISPOSE CONSTRUCTION FENCE
- (RD (ITEM)) REMOVE AND DISPOSE
- (RDC) REMOVE AND DISPOSE CURB
- (RDL) REMOVE AND DISPOSE LITE POLE
- (RDP) REMOVE AND DISPOSE PAVEMENT
- (RDS) REMOVE AND DISPOSE SHRUBS
- (RT) REMOVE AND DISPOSE TREE
- (RSB) REMOVE AND STOCKPILE MEDIAN BARRIER
- (TEP) TIE EXISTING PIPE INTO NEW STRUCTURE
- (TNP) TIE NEW PIPE INTO EXISTING STRUCTURE
- (4DY) 4" EPOXY RESIN PAVEMENT MARKINGS - DOUBLE YELLOW
- (6W) 6" EPOXY RESIN PAVEMENT MARKINGS - WHITE
- (12W) 12" EPOXY RESIN PAVEMENT MARKINGS - WHITE



GENERAL NOTES

1. REFERENCE IS MADE TO THE RIDOT 2010 EDITION "STANDARD AND SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" INCLUDING ALL REVISIONS, ADDENDA AND SUPPLEMENTAL SPECIFICATIONS; AND RIDOT 1998 "STANDARD DETAILS" INCLUDING ALL REVISIONS. ALL PROJECT SITE IMPROVEMENTS SHALL CONFORM TO THESE REGULATIONS AND THE SUB-REFERENCES INCORPORATED THEREIN.
2. EXISTING UTILITIES HAVE BEEN PLOTTED FROM BEST AVAILABLE DATA AND ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING DRAINAGE AND UTILITIES BOTH UNDERGROUND AND OVERHEAD BEFORE EXCAVATION BEGINS IN ACCORDANCE WITH THE "DIG SAFE LAW" ENACTED BY R.I. LEGISLATURE BILL NO. 795-291, WHICH BECAME EFFECTIVE JULY 1, 1979 AND BY CONTACTING THE INDIVIDUAL UTILITY COMPANIES. EXCAVATION SHALL BE IN ACCORDANCE WITH ALL STATUTES, ORDINANCES, RULES AND REGULATIONS OF ANY APPLICABLE CITY, TOWN, STATE OR FEDERAL AGENCY. THE CONTRACTOR SHOULD UNDERSTAND THAT NOT ALL UTILITIES SUBSCRIBE TO THE DIG SAFE PROGRAM. IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES AND ENSURE THAT ALL UTILITIES HAVE BEEN MARKED PRIOR TO COMMENCING THEIR WORK. ANY DAMAGE TO EXISTING UTILITIES MARKED IN THE FIELD, OR AS A RESULT OF FAILING TO CONTACT THE APPROPRIATE UTILITY COMPANY, SHALL BE REPAIRED OR REPLACED AT NO COST TO THE OWNER.
3. CONTRACTOR SHALL RECOGNIZE THAT WORK UNDER EXISTING OVERHEAD UTILITIES IS REQUIRED AND THAT MINIMUM CLEARANCE SHALL CONFORM TO UTILITY COMPANY REQUIREMENTS AND SHALL BE MAINTAINED AT ALL TIMES. THIS MAY REQUIRE SPECIAL CONSTRUCTION TECHNIQUES. SHOULD THE CONTRACTOR ELECT TO RELOCATE THE EXISTING OVERHEAD UTILITIES, THEN THE CONTRACTOR SHALL COORDINATE AND BEAR ALL ASSOCIATED COSTS.
4. THE CONTRACTOR SHALL MAINTAIN ALL EXCAVATION IN A DRY CONDITION. NO SEPARATE PAYMENT OR ALLOWANCE SHALL BE MADE FOR DEWATERING.
5. FILL NEEDED FOR THE ROADWAY EMBANKMENT SHALL MEET SECTION M.01.01 COMMON BORROW OF THE RIDOT STANDARDS AND SPECIFICATIONS, 2004 EDITION UNLESS OTHERWISE NOTED.
6. ALL GRASSED AREAS DISTURBED BY THE CONTRACTOR SHALL BE LOAMED AND SEEDED OR SODED IF SO DIRECTED BY THE ENGINEER AND RETURNED TO THEIR ORIGINAL CONDITION. ALL OTHER VEGETATED OR WOODED AREAS DISTURBED SHALL BE LOAMED AND SEEDED.
7. ALL EXISTING CURBING, SIDEWALK, AND OTHER PAVEMENT DISTURBED BY THE CONTRACTOR SHALL BE REPLACED AND RESTORED, IN KIND AT NO ADDITIONAL COST TO THE OWNER.
8. ALL EXISTING PIPE, SUBSURFACE STRUCTURES, PAVEMENTS, EXCESS EXCAVATED MATERIALS AND MISCELLANEOUS MATERIALS REMOVED DURING THE COURSE OF WORK OF INSTALLING DRAINAGE, WATER AND SEWER PIPING SHALL BE LEGALLY DISPOSED OF OFF THE PROJECT SITE BY THE CONTRACTOR.
9. CONTINUOUS DUST CONTROL, USING CALCIUM CHLORIDE OR OTHER APPROVED METHODS, SHALL BE PROVIDED BY THE CONTRACTOR FOR ALL EARTH STOCKPILES, EARTH PILED ALONG EXCAVATIONS AND SURFACES OF BACK FILLED TRENCHES, AS DIRECTED AND SPECIFIED BY THE ENGINEER.
10. THE CONTRACTOR SHALL GIVE NOTICES AND COMPLY WITH ALL PERMITS, LAWS, ORDINANCES, RULES AND REGULATIONS BEARING ON THE CONDUCT OF THE WORK AS DRAWN AND SPECIFIED.
11. ALL SOIL EROSION CONTROL MEASURES TO BE USED ON THE PROJECT ARE INDICATED ON THE PLANS. EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE PROVISIONS OF THE RHODE ISLAND SOIL EROSION & SEDIMENT CONTROL HANDBOOK.
12. PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES, A CONTINUOUS UNINTERRUPTED LINE OF STAKED COMPOST FILTER SOCK OR SILT FENCING SHALL BE INSTALLED IN LOCATIONS SHOWN ON THE PLANS AND MAINTAINED IN EFFECTIVE CONDITION UNTIL DISTURBED AREAS HAVE BEEN STABILIZED WITH VEGETATION. FOLLOWING SUCCESSFUL STABILIZATION OF DISTURBED AREAS, ALL SILT FENCING AND COMPOST FILTER SOCK SHALL BE REMOVED. PRIOR TO REMOVAL OF THE SILT FENCING AND COMPOST FILTER SOCK, ALL ACCUMULATED TRAPPED SEDIMENT MUST BE REMOVED TO A SUITABLE UPLAND SITE.
13. UNTIL VEGETATIVE COVER IS ESTABLISHED AND DISTURBED AREAS ARE STABILIZED, ACCUMULATED SEDIMENTS SHALL BE REMOVED AS SOON AS SEDIMENTS HAVE ACCUMULATED TO A DEPTH OF SIX (6) INCHES.
14. THE LIMITS OF ALL CLEARING, GRADING AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE PROPOSED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE THE LIMITS OF DISTURBANCE SHALL BE TOTALLY UNDISTURBED.
15. SOIL STOCKPILES AND DEPOSITION AREA FOR CONSTRUCTION MATERIALS SHALL BE LOCATED WITHIN THE LIMIT OF WORK AND SHALL BE SURROUNDED BY STAKED COMPOST FILTER SOCK.
16. PLANTING OF GRASS SHALL BE ACCOMPLISHED BY THE CONTRACTOR AS EARLY AS POSSIBLE UPON COMPLETION OF GRADING AND CONSTRUCTION.

EROSION AND SEDIMENT CONTROL NOTES

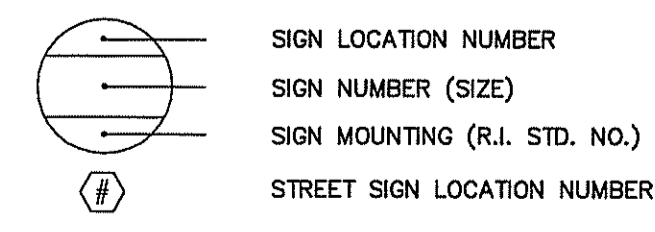
1. DENUDED SLOPES SHALL NOT BE UNATTENDED OR EXPOSED IN AREAS WHERE WORK IS TO CEASE FOR 14 DAYS AND NOT SET TO RESUME WITHIN 21 DAYS OR THE INACTIVE WINTER SEASON.
2. ALL DISTURBED SLOPES EITHER NEWLY CREATED OR EXPOSED PRIOR TO OCTOBER 15, SHALL BE SEEDED OR PROTECTED BY THAT DATE FOR ANY WORK COMPLETED DURING EACH CONSTRUCTION YEAR.
3. THE TOPSOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, ROOTS, LUMPS OF SOIL, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS AND SHALL CONFORM WITH R.I. STANDARD SPECIFICATION M.18.01.
4. THE SEEDED MIX SHALL BE INOCULATED WITHIN 24 HOURS, BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULUM FOR EACH VARIETY.
5. THE DESIGN MIX SHALL BE COMPRISED OF THE FOLLOWING:

MIXTURE	BY WT.	SEEDING DATE
RED FESCUE	70	APRIL 1 - JUNE 13
KENTUCKY BLUEGRASS	15	AUG. 15 - OCT. 15
COLONIAL BENTGRASS	5	
PERENNIAL RYEGRASS	10	
TOTAL 100 LBS./ACRE		
6. TEMPORARY TREATMENTS SHALL CONSIST OF A HAY, STRAW, OR FIBER MULCH OR PROTECTIVE COVERS SUCH AS A MAT OR FIBER LINING (BURLAP, JUTE, FIBERGLASS NETTING, EXCELSIOR BLANKETS) THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS ORDERED BY THE ENGINEER.
7. HAY OR STRAW APPLICATIONS SHOULD BE IN THE AMOUNT OF 3,000-4,000 LBS./ACRE.
8. ALL COMPOST FILTER SOCK, SILT FENCES OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED AND THE PROJECT RECEIVES A FAVORABLE APPROVAL FOR FINAL ACCEPTANCE FROM THE ENGINEER. IF NEEDED TEMPORARY SEEDING CAN HELP TO MINIMIZE EROSION. THE FOLLOWING SPECIES ARE RECOMMENDED:

SPECIES	LBS/AC.	LBS/1,000 SQ.FT.	SEEDING DATE
ANNUAL RYEGRASS	40-60	1.0-1.5	3/1-6/1
PERENNIAL RYEGRASS	40-60	1.0-1.5	3/1-6/1
SUDAN GRASS	30-40	0.7-1.0	5/15-8/15
MILLET	30-40	0.7-1.0	5/15-8/15
WINTER RYE	120	3.0	4/15-6/15
OATS	86-120	0.5-5.0	3/1-6/15
WEEDING	5-20	0.5-5.0	5/1-7/1
9. THE CONTRACTOR MUST REPAIR AND OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR AND HE SHALL DO SO AT NO ADDITIONAL EXPENSE.
10. THE NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE APRIL 1ST - JUNE 15TH AND AUGUST 15TH TO OCTOBER 15TH.
11. STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED WITHIN 15 DAYS OF FINAL GRADING.
12. DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL.
13. EROSION CONTROL DEVICES SHOULD BE INSPECTED WEEKLY AND AFTER RAINFALL EVENTS OF > 1/2" IN A 24-HOUR PERIOD. MAINTENANCE AND REPAIRS SHALL BE COMPLETED WITH 24 HOURS OF THE INSPECTION WHEN NECESSARY.
14. IMMEDIATELY UPON COMPLETION OF THE CLEARING AND GRUBBING OPERATION AND PRIOR TO ANY ROUGH GRADING, TEMPORARY COMPOST FILTER SOCK OR SILT FENCES SHALL BE PLACED AS INDICATED ON THE PLANS.
15. ALL EROSION AND SEDIMENTATION CONTROL STRUCTURES SHALL BE PERIODICALLY MAINTAINED AS PER THE RESPECTIVE PROGRAMS DURING THE CONSTRUCTION.
16. ALL INLETS (CATCH BASINS) TO BE INSTALLED AS PART OF THE PROPOSED DRAINAGE SYSTEMS SHALL BE PROVIDED WITH FABRIC FILTER BAG PROTECTION DEVICES (SILT SACK MANUFACTURED BY ACF ENVIRONMENTAL OR APPROVED EQUAL). DEVICES SHALL BE INSTALLED, MAINTAINED, AND CLEANED IN ACCORDANCE WITH RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK (REVISED AUGUST 2014) FOR THE DURATION OF CONSTRUCTION AND UNTIL ALL STORMWATER CONTROLS ARE FULLY STABILIZED AND ONLINE.

DRAINAGE LEGEND

- (A) R.I. STD. 4.3.0 - 4'-0" SQUARE CATCH BASIN, WITH 4'-0" DEEP SUMP, R.I. STD. 4.7.0 TOP COVER WITH CAST-IN-PLACE FRAME AND COVER E.J. GROUP PRODUCT NO. 45624019P02, MODEL NO. V5624 OR APPROVED EQUAL.
- (B) R.I. STD. 4.4.0 - 4'-0" OR 6'-0" ROUND CATCH BASIN WITH 4'-0" DEEP SUMP AND R.I. STD. 6.3.2 FRAME AND GRATE
- (C) R.I. STD. 4.2.0 (4'-0") OR 4.2.2 (6'-0"), ROUND MANHOLE WITH R.I. STD. 6.2.1 FRAME AND COVER
- (D) R.I. STD. 4.4.0 - 4'-0" OR 6'-0" ROUND CATCH BASIN, R.I. STD. 4.7.2 WITH CAST-IN-PLACE BEEHIVE FRAME AND GRATE, NEEHAH FOUNDRY MODEL R-4353 OR APPROVED EQUAL.
- (E) R.I. STD. 4.3.0 - 6'-0" SQUARE CATCH BASIN WITH 4'-0" DEEP SUMP, R.I. STD. 4.7.0 TOP COVER, AND R.I. STD. 6.3.2 FRAME AND GRATE
- (F) R.I. STD. 4.5.0 DROP INLET WITH R.I. STD. 6.3.2 FRAME AND COVER
- (G) R.I. STD. 4.4.0 ROUND BASIN WITH 1'-0" DEEP SUMP AND R.I. STD. 6.2.1 FRAME AND COVER
- (H) R.I. STD. 4.3.0 - 6'-0" SQUARE MANHOLE WITH 4'-0" DEEP SUMP, R.I. STD. 4.7.0 TOP COVER, AND R.I. STD. 6.2.1 FRAME AND COVER
- (I) R.I. STD. 4.5.0 DROP INLET WITH 4.7.0 TOP COVER CAST-IN-PLACE BEEHIVE FRAME AND GRATE, NEEHAH FOUNDRY MODEL R-4353 OR APPROVED EQUAL
- (J) R.I. STD. 4.3.0 - 6'-0" SQUARE MANHOLE WITH R.I. STD. 4.7.0 TOP COVER, AND R.I. STD. 6.2.1 FRAME AND COVER



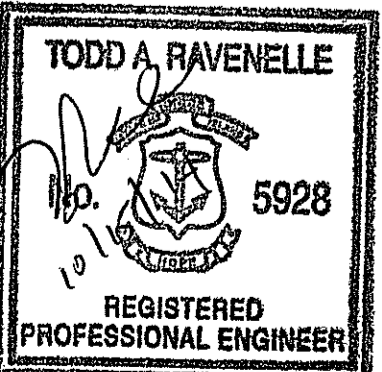
TYPICAL SIGN DESIGNATION SYMBOL

STORMWATER MAINTENANCE NOTES

1. ALL MAINTENANCE (INCLUDING CLEANING) REQUIRED DURING THE CONSTRUCTION PHASE OF THE PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL INCLUDE:
 - MEASURES NEEDED TO ENSURE THE PROPER OPERATION OF THE STORMWATER MANAGEMENT PRACTICES, SYSTEMS TO INCLUDE INSPECTION, CLEANING AND REPAIRS TO THE BIORETENTION SYSTEMS INCLUDING ALL PIPES, SWALES, INTAKE AND DISCHARGE STRUCTURES, CATCH BASIN SUMPS, AND MANHOLES.
 - INSPECTION OF ALL SLOPES, BERMS, AND OTHER CONTROL STRUCTURES FOR STRUCTURAL INTEGRITY/STABILITY AND EVIDENCE OF SOIL EROSION PROCESSES, AND MAINTENANCE OF THESE ELEMENTS AS REQUIRED. INSPECTIONS SHALL BE PERFORMED FOLLOWING ALL RAIN EVENTS OF 1/8 INCH RAINFALL OR MORE IN A 24-HOUR PERIOD, OR BI-MONTHLY IF NO RAINFALL EVENT OCCURS.
2. UPON COMPLETION OF PROJECT CONSTRUCTION, AND PRIOR TO VACATING THE SITE, THE CONTRACTOR SHALL CONDUCT A FINAL INSPECTION AND CLEANING OF THE DRAINAGE SYSTEM AND ALL ASSOCIATED STRUCTURES.
3. AFTER THE COMPLETION OF THE ENTIRE PROJECT TO THE SATISFACTION OF THE ENGINEER, ALL MAINTENANCE OF THE DRAINAGE SYSTEM SHALL THEN BE THE RESPONSIBILITY OF THE UNIVERSITY OF RHODE ISLAND OR THEIR APPOINTED AGENTS.
4. IN ACCORDANCE WITH THE LONG-TERM OPERATION AND MAINTENANCE PLAN (O&M PLAN) FOR THE PROJECT, THE DRAINAGE SYSTEM AND ALL BEST MANAGEMENT PRACTICES SHALL BE INSPECTED, CLEANED AND MAINTAINED (ROUTINE MAINTENANCE) A MINIMUM OF TWO (2) TIMES IN A GIVEN CALENDAR YEAR TO ENSURE THAT ALL SYSTEM ELEMENTS ARE FUNCTIONING PROPERLY.
5. CLEANING AND ROUTINE MAINTENANCE OF CATCH BASINS, MANHOLES, AND OTHER SYSTEM ELEMENTS SHALL INCLUDE THE REMOVAL OF ALL ACCUMULATED SEDIMENTS AND DEBRIS (EITHER MANUALLY OR BY VACUUM TRUCK) AS WELL AS OTHER ACTIVITIES REQUIRED TO ENSURE THE CONTINUED OPERATIONAL PERFORMANCE. ANY BARE SPOTS OR ERODED AREAS WITHIN SWALES, AT INLETS/OUTLETS, OR OTHER LOCATIONS WITHIN THE SYSTEMS MUST BE REPLANTED AND/OR STABILIZED IMMEDIATELY FOLLOWING OBSERVATIONS TO PREVENT SUBSEQUENT EROSION OR CLOGGING. SHOULD THE INSPECTION OF THE SYSTEMS REVEAL ANY EVIDENCE OF SEDIMENT ACCUMULATION WITHIN ANY OF THE BIORETENTION SWALES, SEDIMENTS SHALL BE REMOVED AND THE SURFACE LAYER RESTORED TO ITS ORIGINAL DEPTH AND CONDITION.
6. BY THEIR NATURE, BIORETENTION SWALES HAVE AN OPERATIONAL LIFE CYCLE THAT WILL REQUIRE THE TILLING AND RESEEDING OF THE TOP LAYER (12") OF THE SWALE TO RESTORE DESIGN PERCOLATION RATES THROUGH THE SURFACE LAYER (WHICH MAY BECOME REDUCED OVER TIME DUE TO CLOGGING, BLINDING, AND/OR OTHER FACTORS). THIS TILLING SHOULD BE PERFORMED APPROXIMATELY ONCE EVERY 5-10 YEARS, WHEN INFILTRATION CAPACITY IS DIMINISHED TO THE POINT WHERE STANDING WATER REMAINS IN THE SWALE MORE THAN 72 HOURS FOLLOWING A RAINFALL EVENT. THE TILLING/RESEEDING OPERATION SHALL BE CONDUCTED DURING THE SPRING OR FALL GROWING PERIOD, WITH TILLING ACCOMPLISHED USING A ROTARY TILLER OR DISC HARROW AND THE SWALE BOTTOM RESEEDED IMMEDIATELY FOLLOWING TILLING TO PREVENT EROSION.
7. ALL SEDIMENT, DEBRIS, AND OTHER MATERIALS REMOVED IN THE MAINTENANCE OF THE STORMWATER SYSTEMS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
8. ALL LANDSCAPED AND GRASSED AREAS SURROUNDING SHALL BE MOWED AT LEAST ONCE PER GROWING SEASON, WITH GRASSED AREAS FLANKING THE BIORETENTION AREAS CUT TO A HEIGHT NO SHORTER THAN FOUR (4) INCHES. GRASS PLANTINGS WITHIN THE BIORETENTION AREAS PROPER SHALL BE CUT AT LEAST ANNUALLY, SUCH THAT THE HEIGHT OF GRASS DOES NOT EXCEED TEN (10) INCHES ABOVE THE BIORETENTION SOIL MEDIA SURFACE. MOWING AND CUTTING WITHIN ALL BIORETENTION AREAS SHALL BE PERFORMED IN A MANNER THAT DOES NOT COMPACT THE UNDERLYING MEDIA (I.E., HAND-OPERATED, SMALL SCALE EQUIPMENT).
9. THE URI OFFICE OF CAPITAL PROJECTS SHALL BE RESPONSIBLE FOR ALL REPAIRS, REPLACEMENTS, AND OTHER WORK NECESSARY TO MAINTAIN THE PROPER FUNCTIONING OF THE SUBJECT BIORETENTION/FILTERING SYSTEMS. ANY REQUIRED REPAIR AND/OR REPLACEMENT OF DRAINAGE STRUCTURES OR FACILITIES SHALL BE PERFORMED PROMPTLY TO ENSURE PROPER FUNCTIONING OF THE SYSTEM(S). IN THE EVENT OF A SIGNIFICANT DECREASE IN PERFORMANCE OF A SYSTEM (E.G., STANDING WATER / PROLONGED DRAWDOWN TIMES), THE PERTINENT SYSTEMS ELEMENTS SHALL BE REPAIRED OR REPLACED SO AS TO RE-ESTABLISH ORIGINAL DESIGN FUNCTIONALITY.
10. ANY INCIDENT OF INADVERTENT OR DELIBERATE DISCHARGE OF WASTE OIL OR OTHER CONTAMINANT(S) TO THE SYSTEMS SHALL BE IMMEDIATELY REPORTED TO THE RIDEM OFFICE OF WATER RESOURCES AT 401-222-6820. THE RIDEM AFTER-HOURS EMERGENCY TELEPHONE NUMBER IS (401) 222-3070.
11. OPERATION AND MAINTENANCE OF THE DRAINAGE SYSTEMS SHALL BE CONDUCTED IN ACCORDANCE WITH ALL APPLICABLE TERMS AND CONDITIONS SET FORTH IN THE RIDEM APPROVALS ISSUED FOR THE PROJECT. WRITTEN NOTIFICATION OF ANY CHANGES TO (A) THE PHYSICAL INFRASTRUCTURE OF THE SYSTEMS OR (B) O&M PLAN PROCEDURES SHALL BE PROVIDED TO THE RIDEM OFFICE OF WATER RESOURCES.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 NON-HAZARDOUS WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS STIPULATED IN THE LETTER OF APPROVAL
 DATED OCT 23 2014. FILE # 14-D133
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

OCT 15 2014



PROJECT: FINE ARTS CENTER PARKING LOT URI CAMPUS KINGSTON, RHODE ISLAND

CLIENT: UNIVERSITY OF RHODE ISLAND

DRAWING TITLE: LEGEND & NOTES

BY: _____

REVISIONS:

NO.	DATE	DESCRIPTION

PROJECT NO.: 1456

DATE: OCTOBER 2014

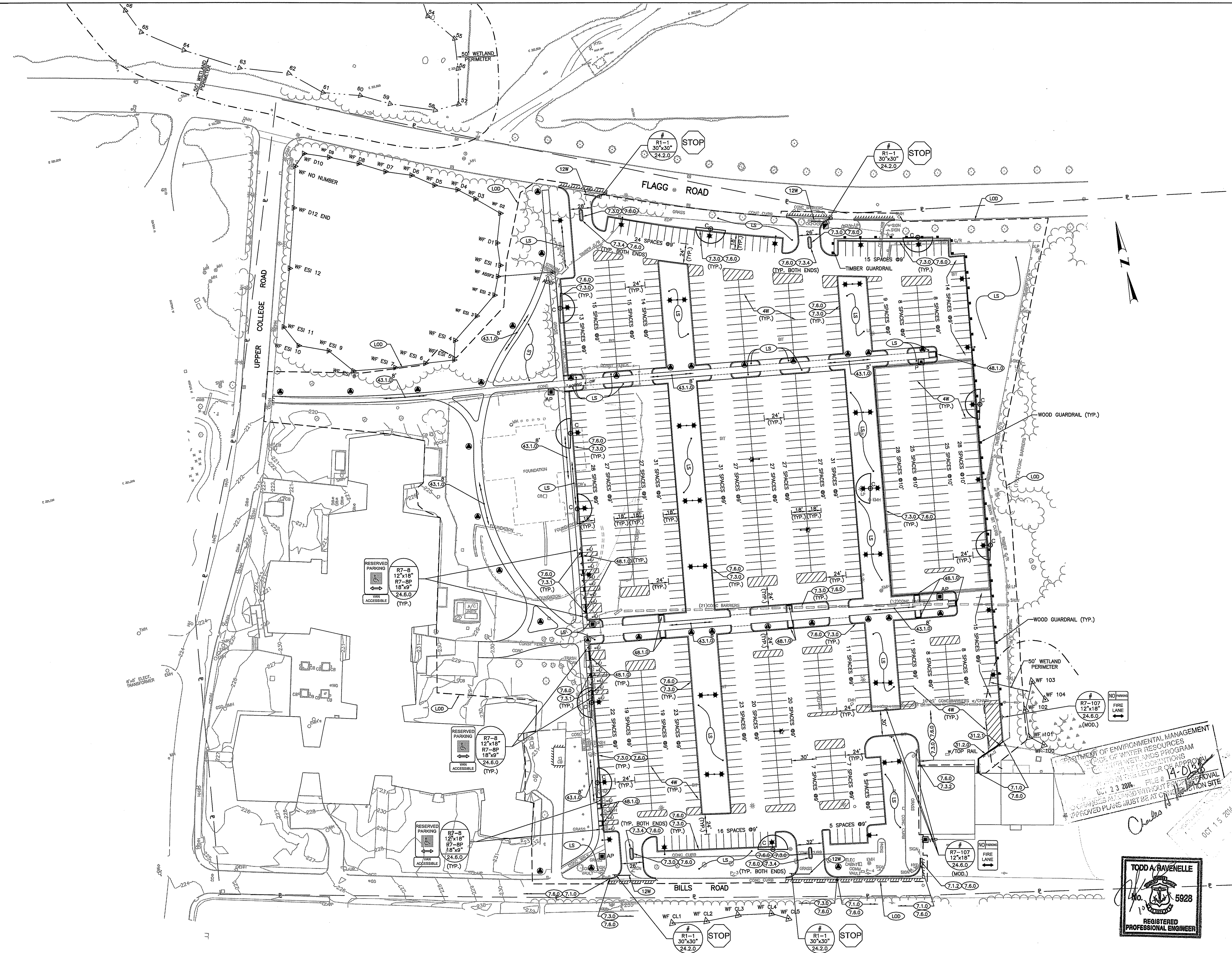
SCALE: NONE

DRAWN BY: LBD

CHECKED BY: TAR

DRAWING NUMBER: 2

SHEET 2 OF 14



PROJECT
FINE ARTS CENTER PARKING LOT
 URI CAMPUS
 KINGSTON, RHODE ISLAND

CLIENT
UNIVERSITY OF RHODE ISLAND

BY
 GORDON R. ARCHIBALD, INC.
 Civil and Environmental Engineers
 Pawtucket, Rhode Island

DRAWING TITLE
GENERAL PLAN

REVISIONS

NO.	DATE	DESCRIPTION

PROJECT NO: 1456

DATE: OCTOBER 2014

SCALE: 1" = 50'

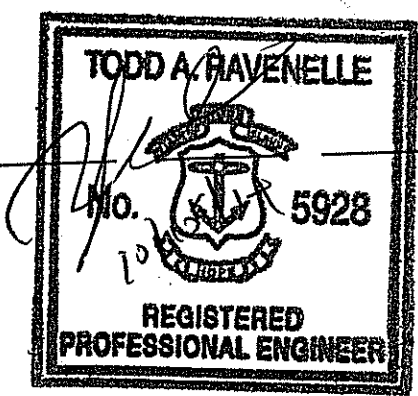
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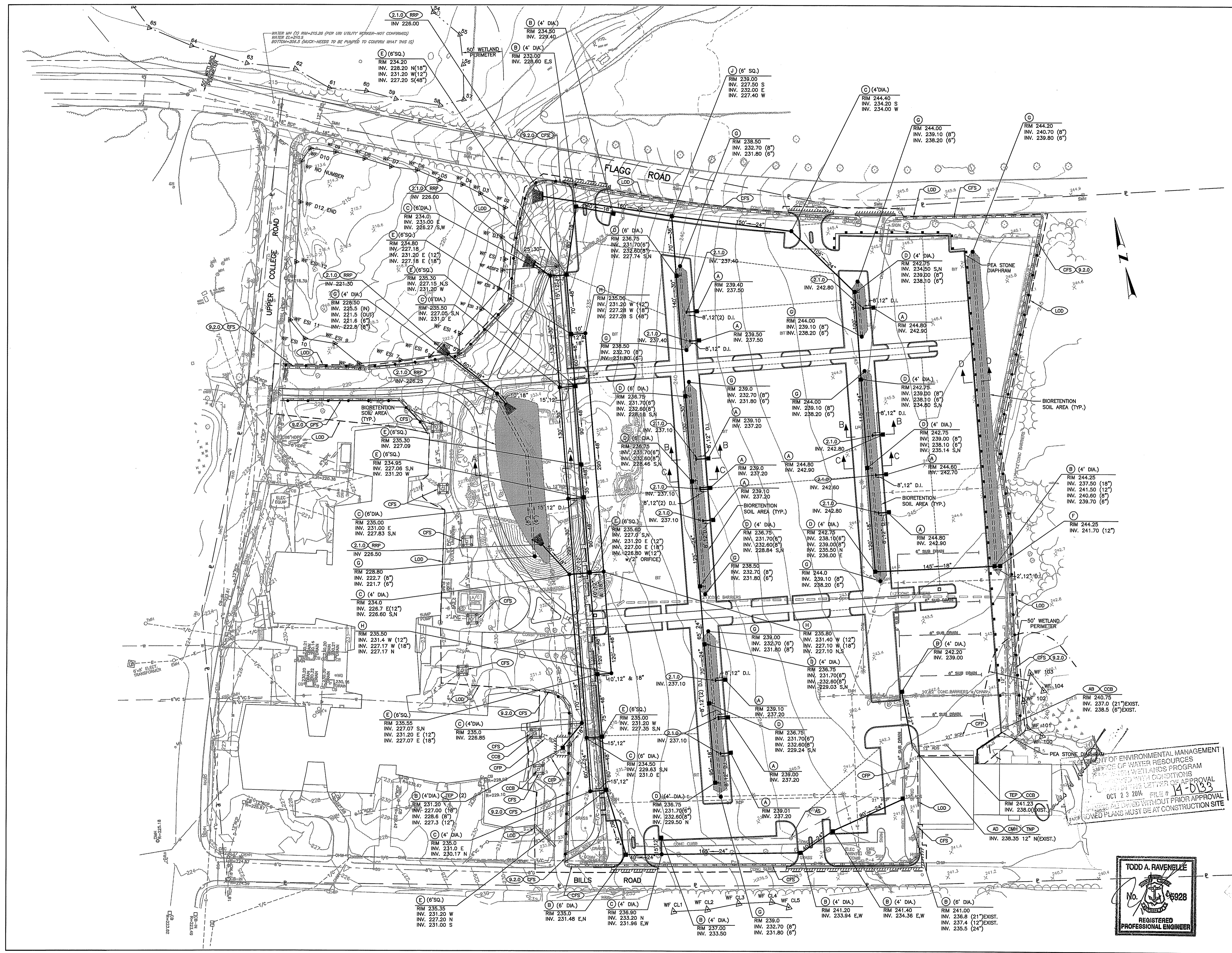
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DRAWING NUMBER
4

SHEET 4 OF 14

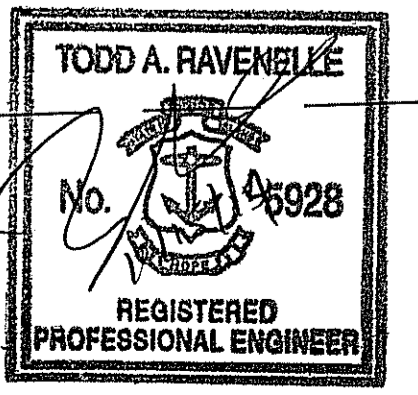
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 COASTAL AND WETLANDS PROGRAM
 PERMIT NO. 14-0188
 DATE: OCT. 23 2014
 APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

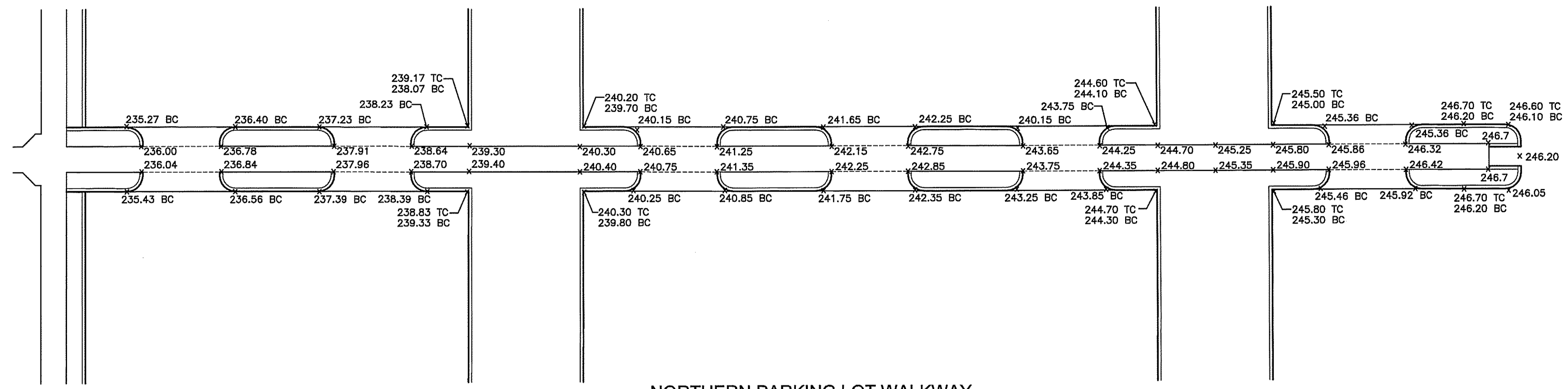




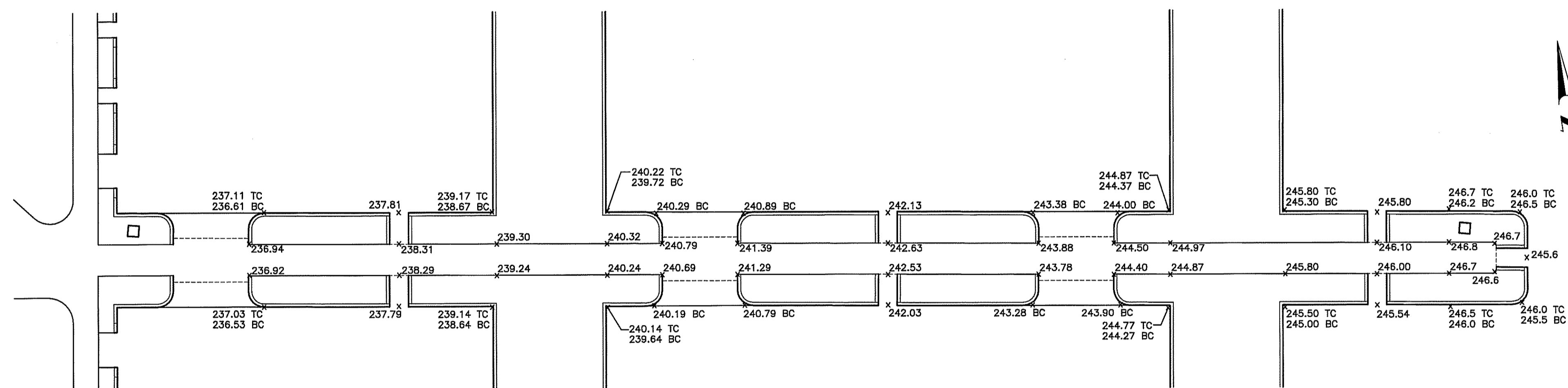
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 DEPARTMENT OF WATER RESOURCES
 STATE OF RHODE ISLAND
 NOTICE OF APPROVAL
 THIS PROJECT HAS BEEN REVIEWED AND APPROVED UNDER THE CONDITIONS
 OF THE PERMIT. ALL WORK MUST BE APPROVED BY THE DEPARTMENT OF
 ENVIRONMENTAL MANAGEMENT AND THE DEPARTMENT OF WATER RESOURCES
 BEFORE CONSTRUCTION BEGINS. APPROVAL IS NOT VALID WITHOUT PRIOR APPROVAL
 OF THE DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AND THE DEPARTMENT OF
 WATER RESOURCES. APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

OCT 23 2014 FILE # 14-0133

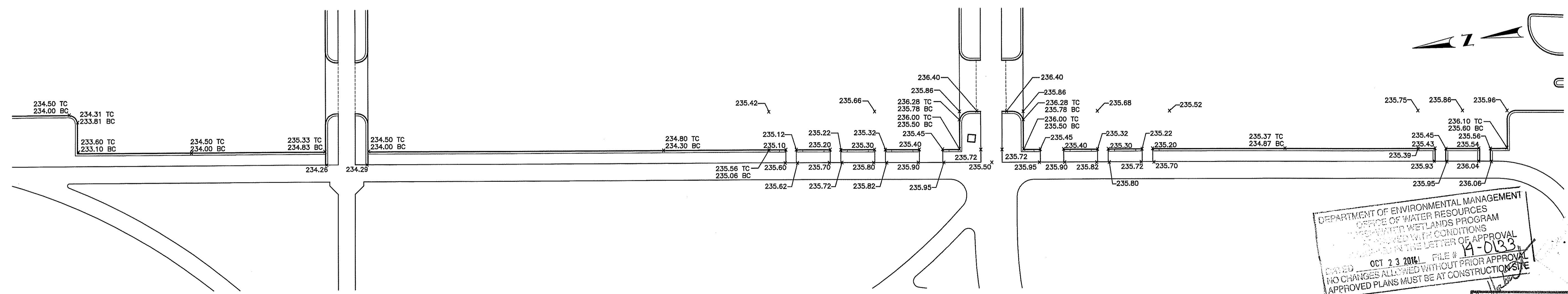




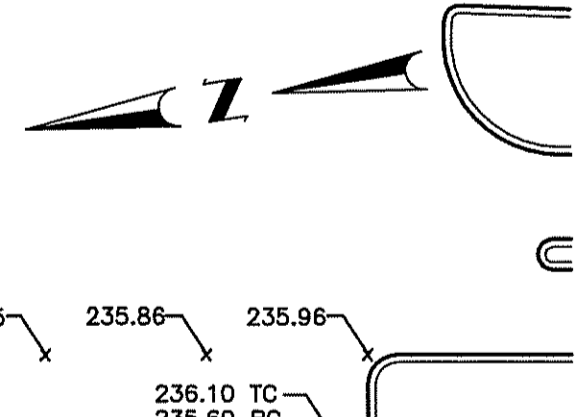
NORTHERN PARKING LOT WALKWAY



CENTER PARKING LOT WALKWAY



WESTERLY SIDEWALK



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 IN THE LETTER OF APPROVAL
 FILE # 14-0133
 OCT 23 2014
 NO CHARGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

TODD A. RAVENELLE
 5928
 REGISTERED PROFESSIONAL ENGINEER

PROJECT
 FINE ARTS CENTER PARKING LOT
 URI CAMPUS
 KINGSTON, RHODE ISLAND

CLIENT
 UNIVERSITY OF RHODE ISLAND

Gordon R. Archibald, Inc.
 Civil and Environmental Engineers
 Pawtucket, Rhode Island

DRAWING TITLE
 SIDEWALK GRADING DETAILS

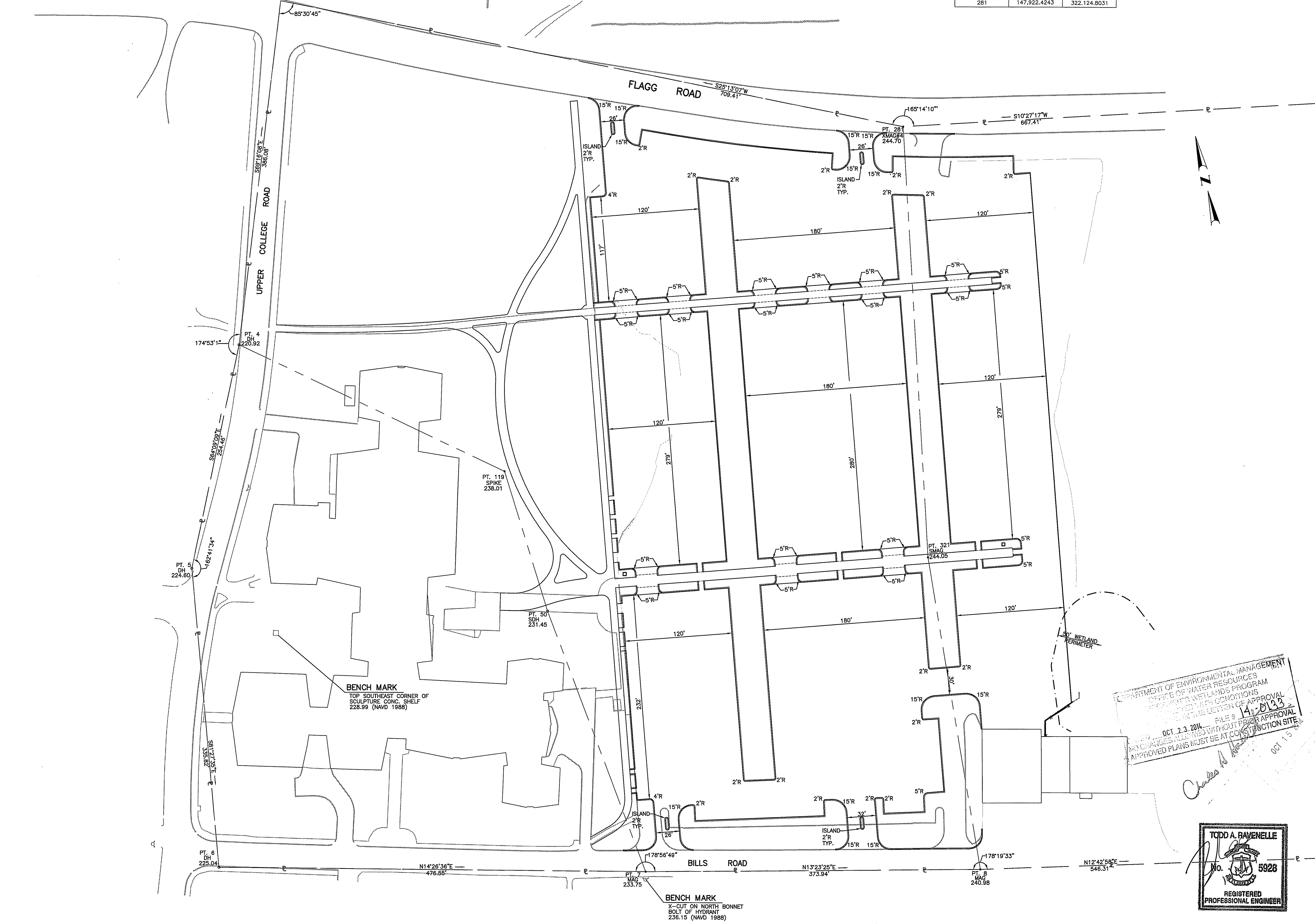
NO.	DATE	REVISIONS

PROJECT NO.: 1456
 DATE: OCTOBER 2014
 SCALE: 1"=25'
 DRAWN BY: LBD
 CHECKED BY: TAR

DRAWING NUMBER
 7

SHEET 7 OF 14

CONTROL COORDINATES URI FINE ARTS CENTER		
POINT NUMBER	NORTH	EAST
4	147,851.7260	321,347.3460
5	147,621.0590	321,239.9204
6	147,288.2400	321,195.1370
7	147,176.4480	321,688.3890
50	147,484.7998	321,616.6657
119	147,647.4422	321,604.6313
8	147,095.4247	322,023.4456
321	147,448.1788	322,044.6007
281	147,922.4243	322,124.8031



PROJECT
FINE ARTS CENTER PARKING LOT
URI CAMPUS
KINGSTON, RHODE ISLAND

CLIENT
UNIVERSITY OF RHODE ISLAND

Gordon R. Archibald, Inc.
Civil and Environmental Engineers
Pawucket, Rhode Island

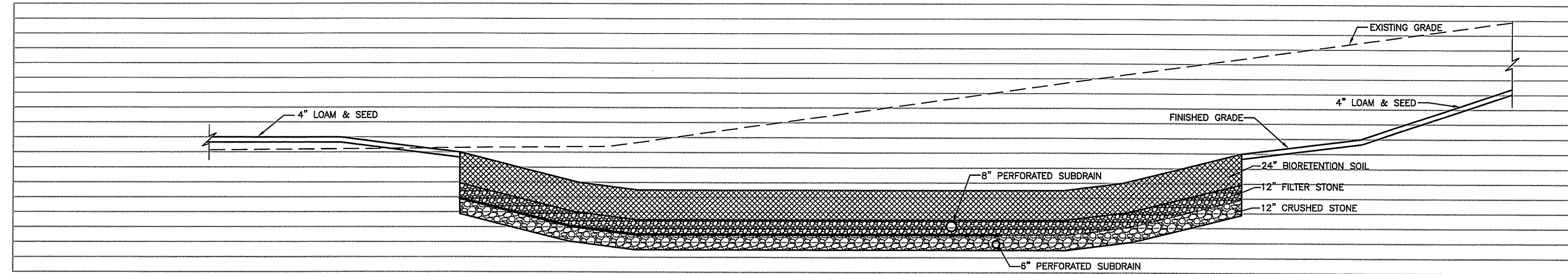
DRAWING TITLE
LOCATION PLAN

NO.	DATE	REVISIONS

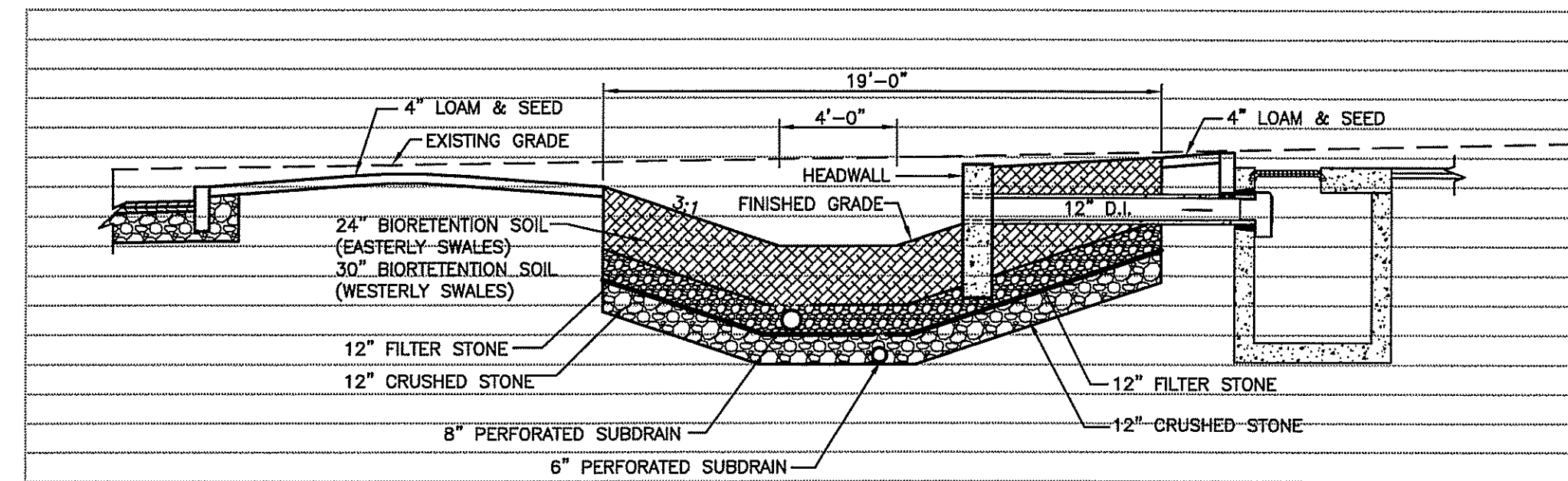
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
PROTECTED WETLANDS PROGRAM
APPROVAL WITH CONDITIONS
IN THE LETTER OF APPROVAL
FILE # 14-0133
OCT 23 2014
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
OCT 15 2014

TODD A. RAVENELLE
No. 5928
REGISTERED PROFESSIONAL ENGINEER

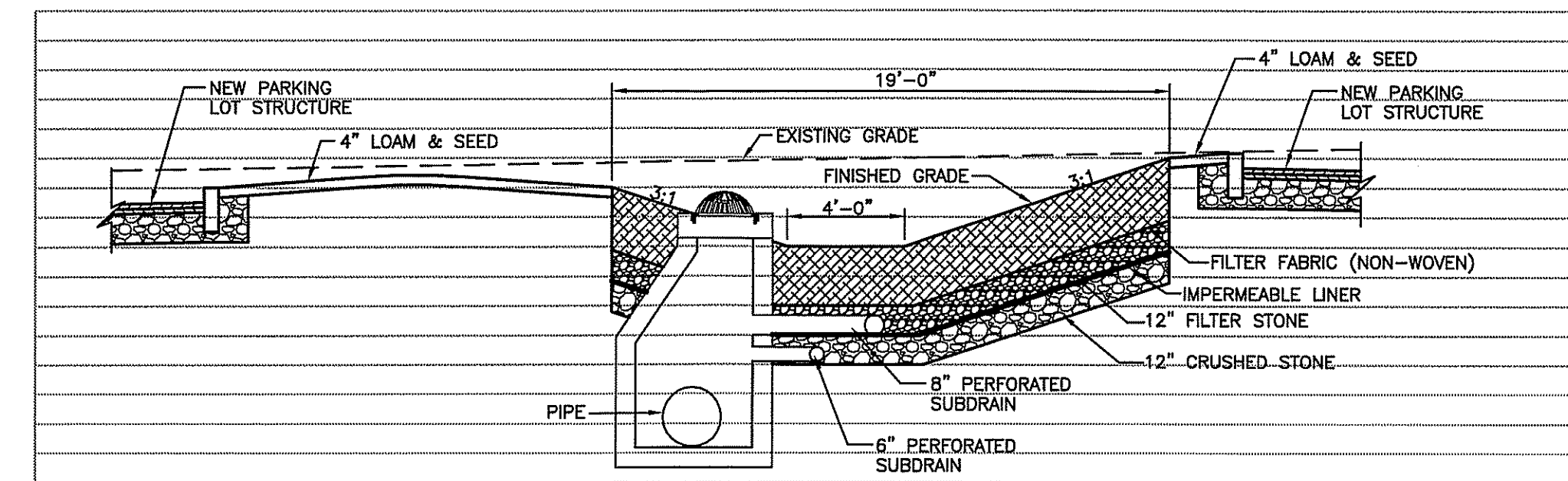
PROJECT NO.: 1456
DATE: OCTOBER 2014
SCALE: 1" = 50'
DRAWN BY: LBD
CHECKED BY: TAR
DRAWING NUMBER 8
SHEET 8 OF 14



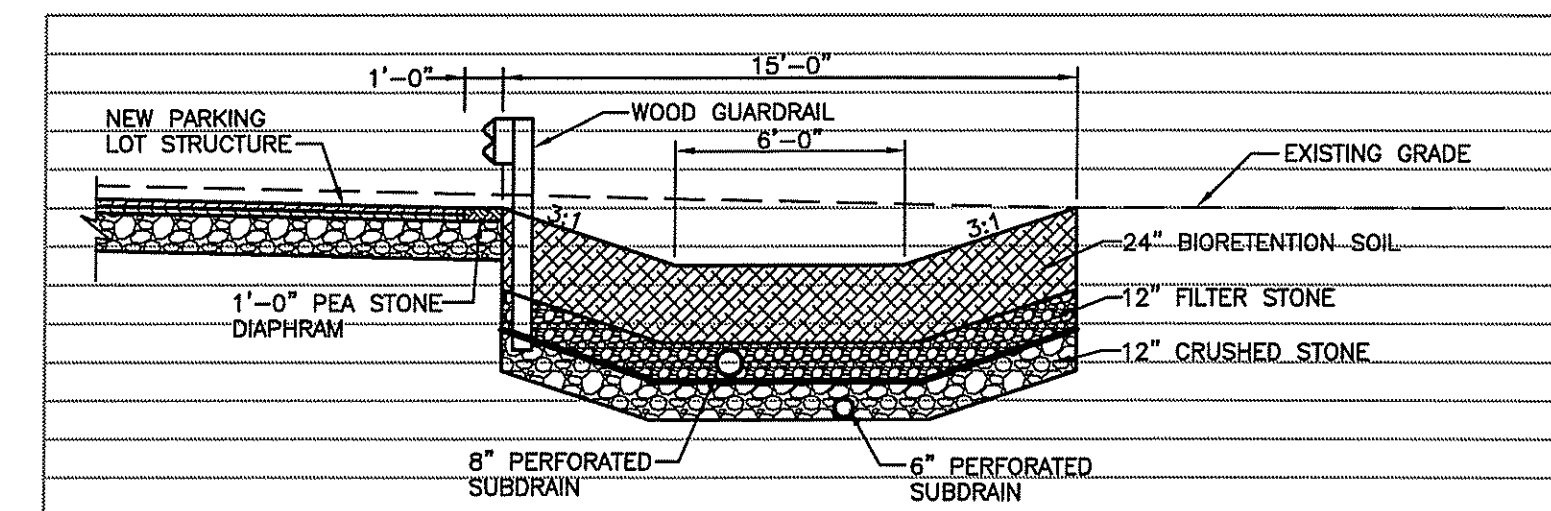
SECTION A-A
WESTSIDE BASIN



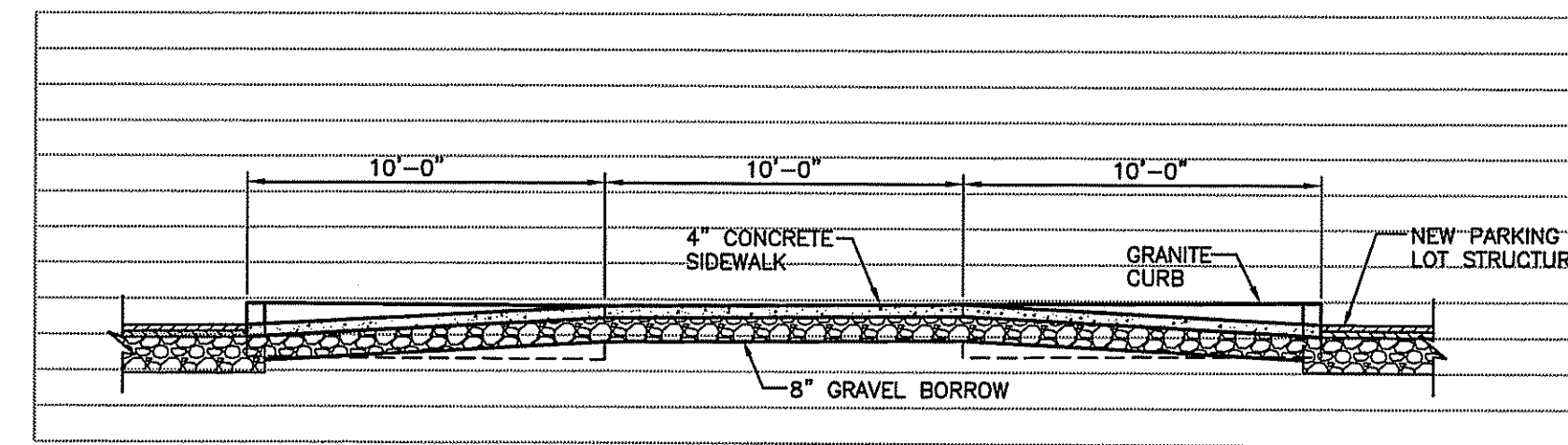
SECTION B-B
DRAINAGE SWALE WITH HEADWALL



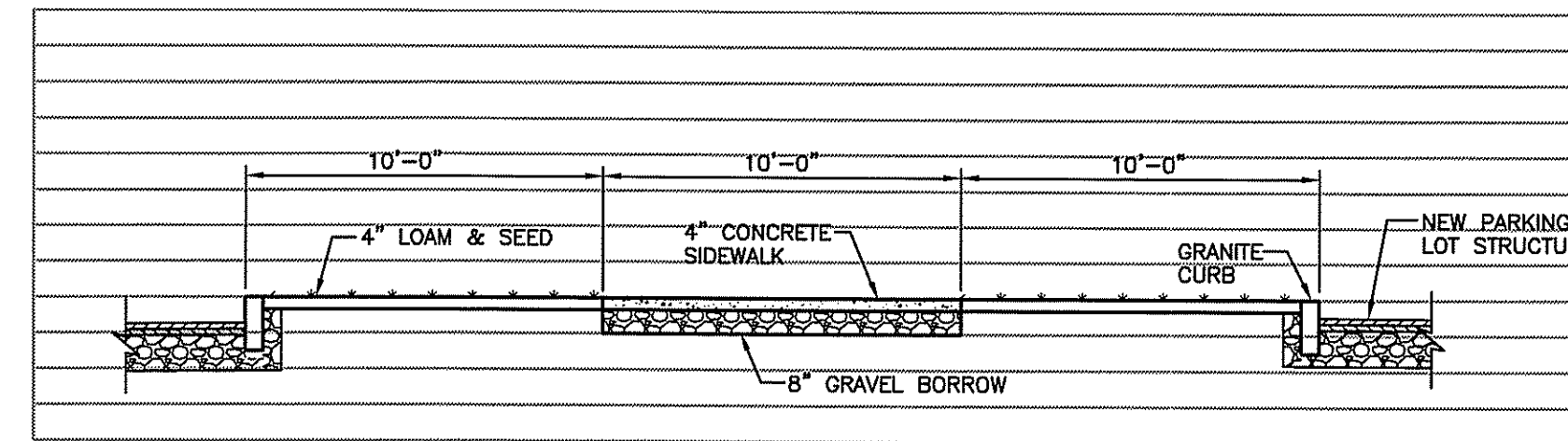
SECTION C-C
DRAINAGE SWALE WITH
BEEHIVE CATCHBASIN



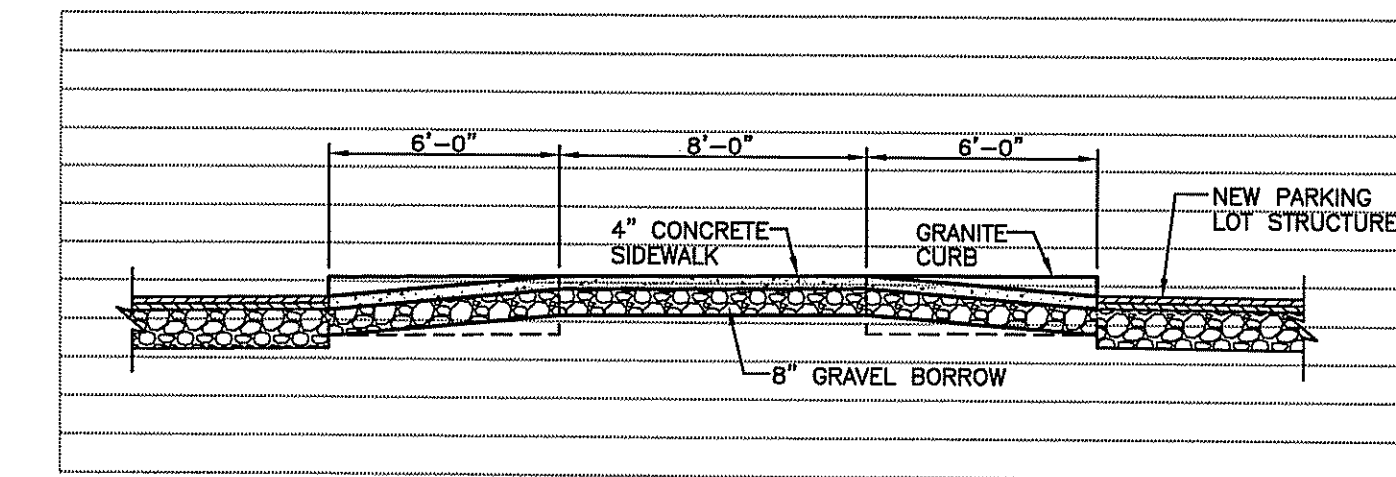
SECTION D-D
EAST PROPERTY SWALE



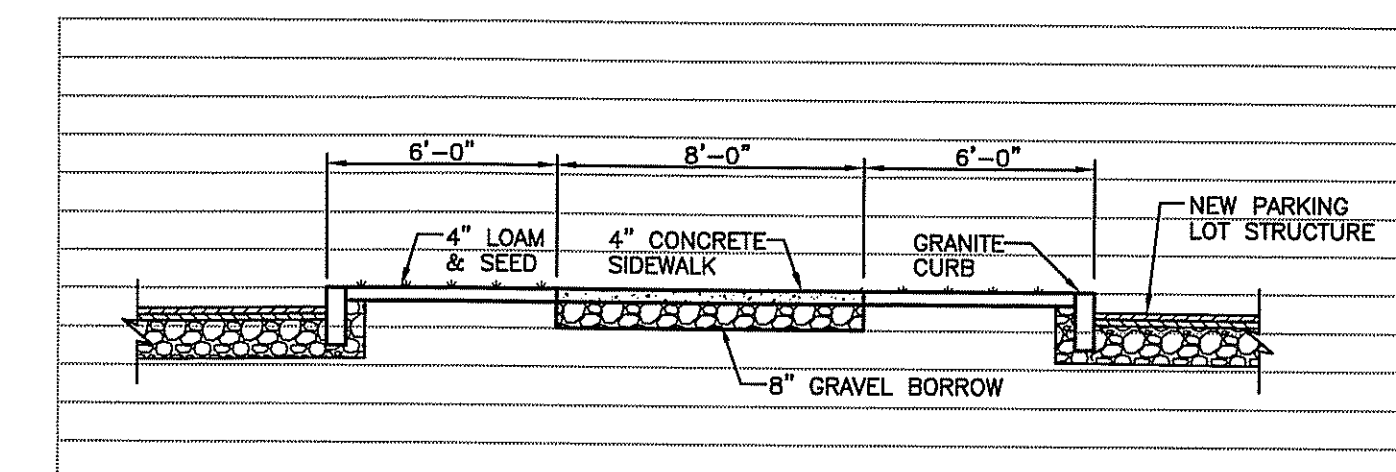
TYPICAL NORTH DRIVEWAY RAMP
SECTION C - 1



TYPICAL NORTH WALKWAY
SECTION C - 2



TYPICAL CENTER DRIVEWAY RAMP
SECTION N - 1



TYPICAL CENTER WALKWAY
SECTION N - 2

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED OCT. 23 2014 FILE # 14-033
NO CHANGES ALLOWED WITHOUT PRE-APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Ravenelle
OCT 15 2014

TODD A. RAVENELLE
No. 5928
REGISTERED
PROFESSIONAL ENGINEER

PROJECT
FINE ARTS CENTER PARKING LOT
URI CAMPUS
KINGSTON, RHODE ISLAND

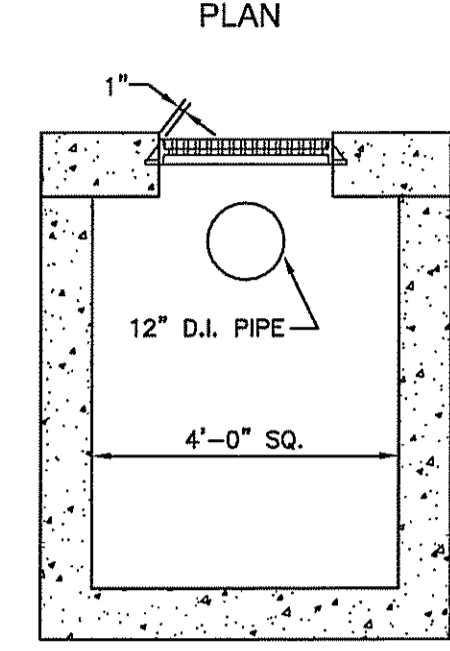
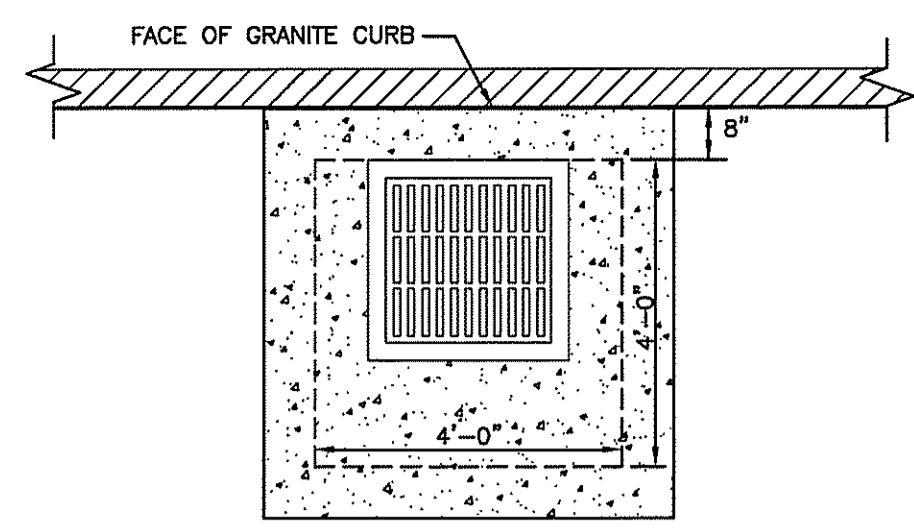
CLIENT
UNIVERSITY OF RHODE ISLAND

Gordon R. Archibald, Inc.
Civil and Environmental Engineers
Pawtucket, Rhode Island

DRAWING TITLE
TYPICAL SECTIONS

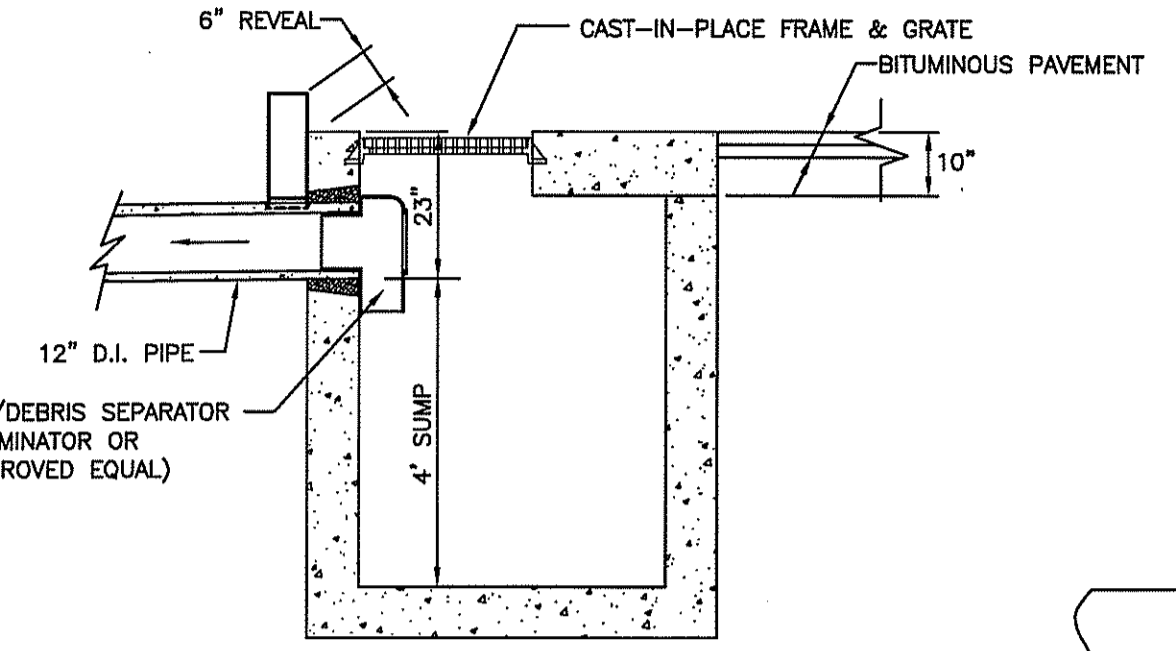
NO.	DATE	REVISIONS	BY

PROJECT NO.: 1456
DATE: OCTOBER 2014
SCALE: HORIZ 1" = 50'
VERT 1" = 5'
DRAWN BY: LBD
CHECKED BY: TAR
DRAWING NUMBER
9
SHEET 9 OF 14

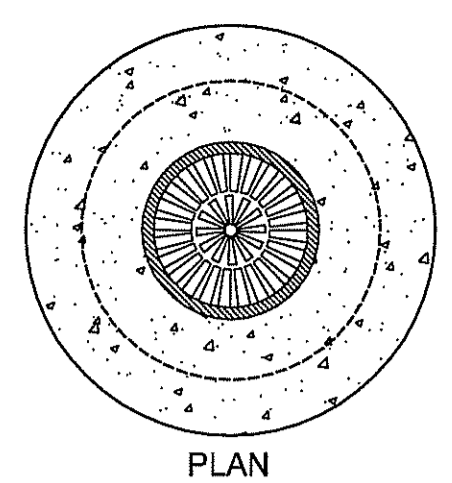


SECTION

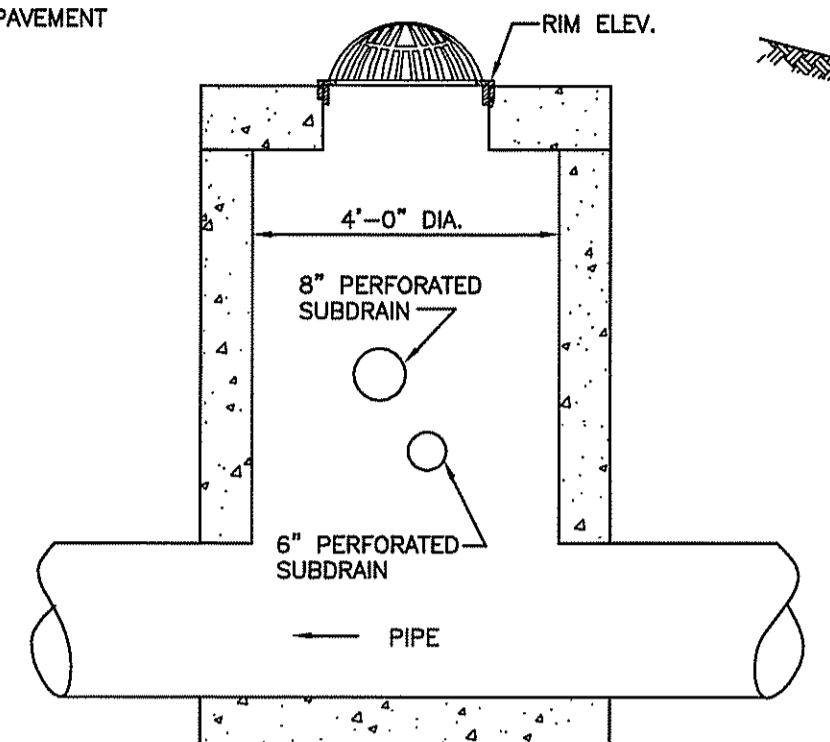
STRUCTURE A
SCALE: 1"=2'



ELEVATION

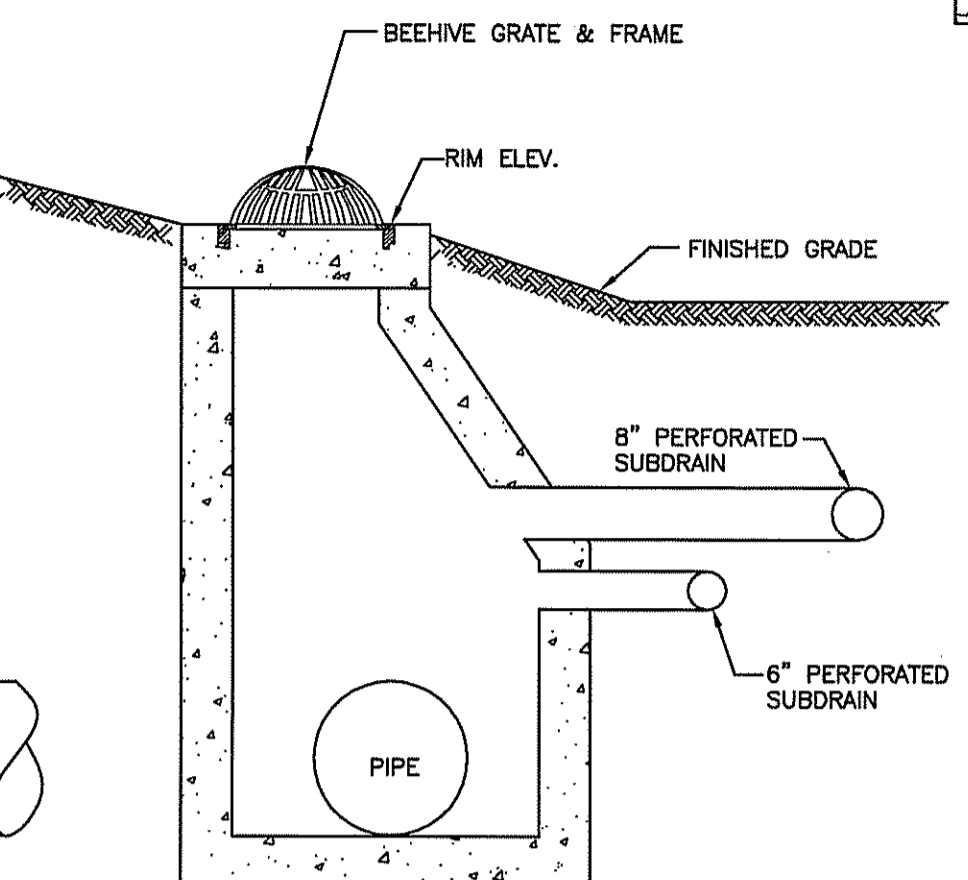


PLAN

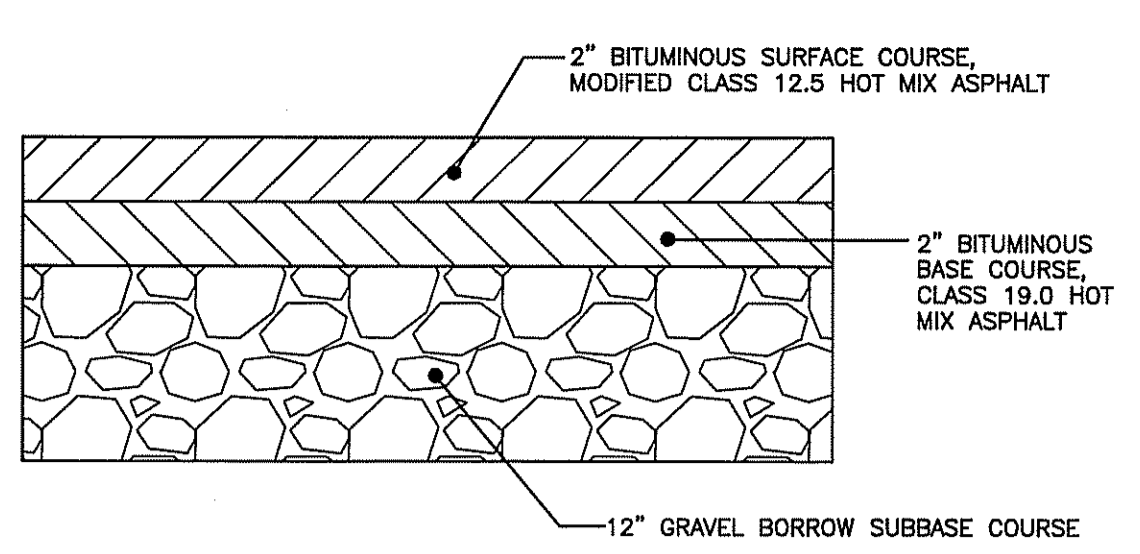


SECTION

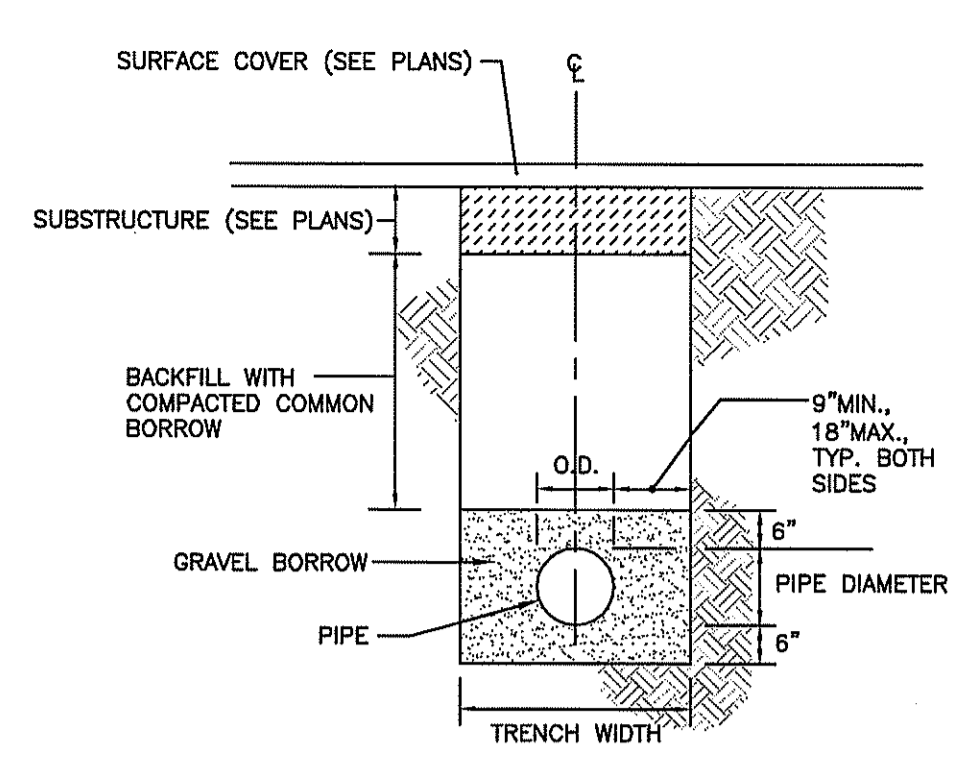
STRUCTURE D
SCALE: 1"=2'



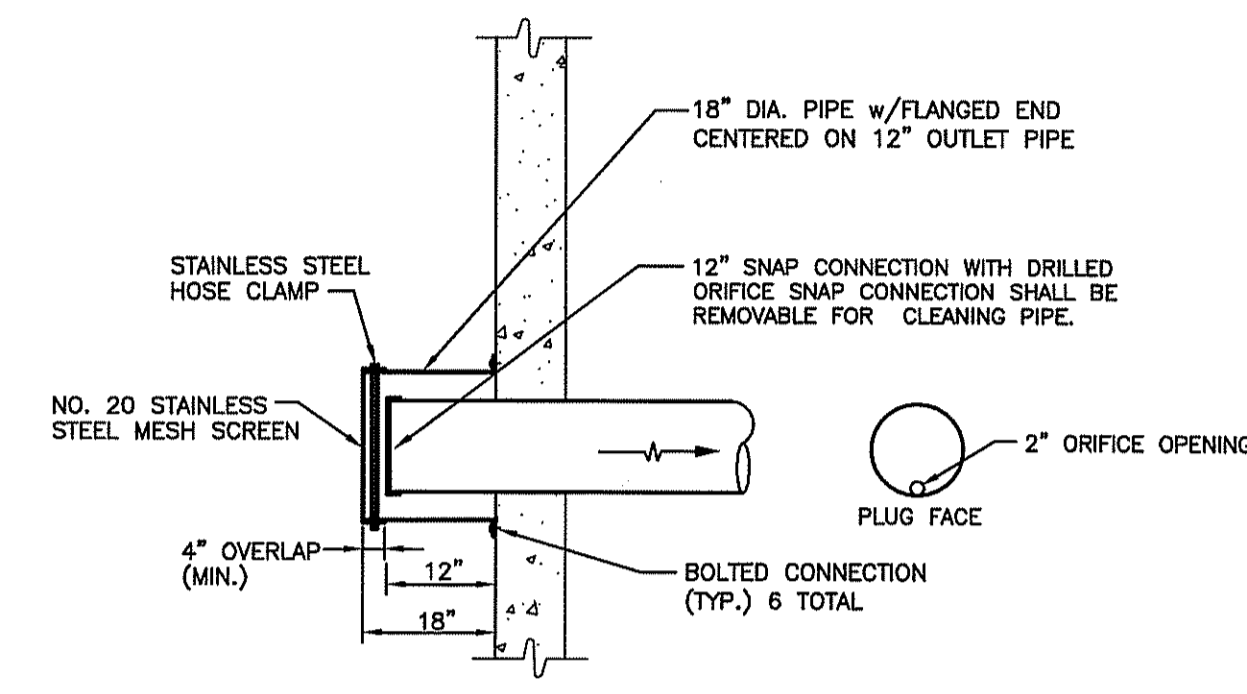
ELEVATION



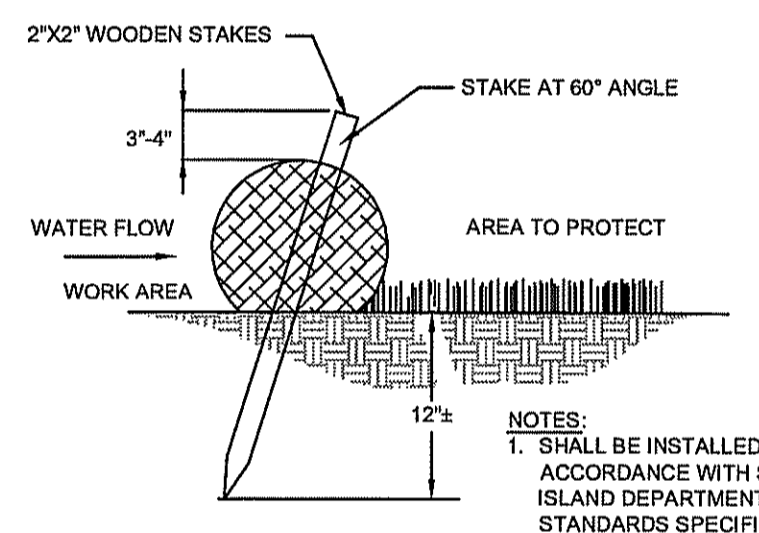
PAVEMENT STRUCTURE
NOT TO SCALE



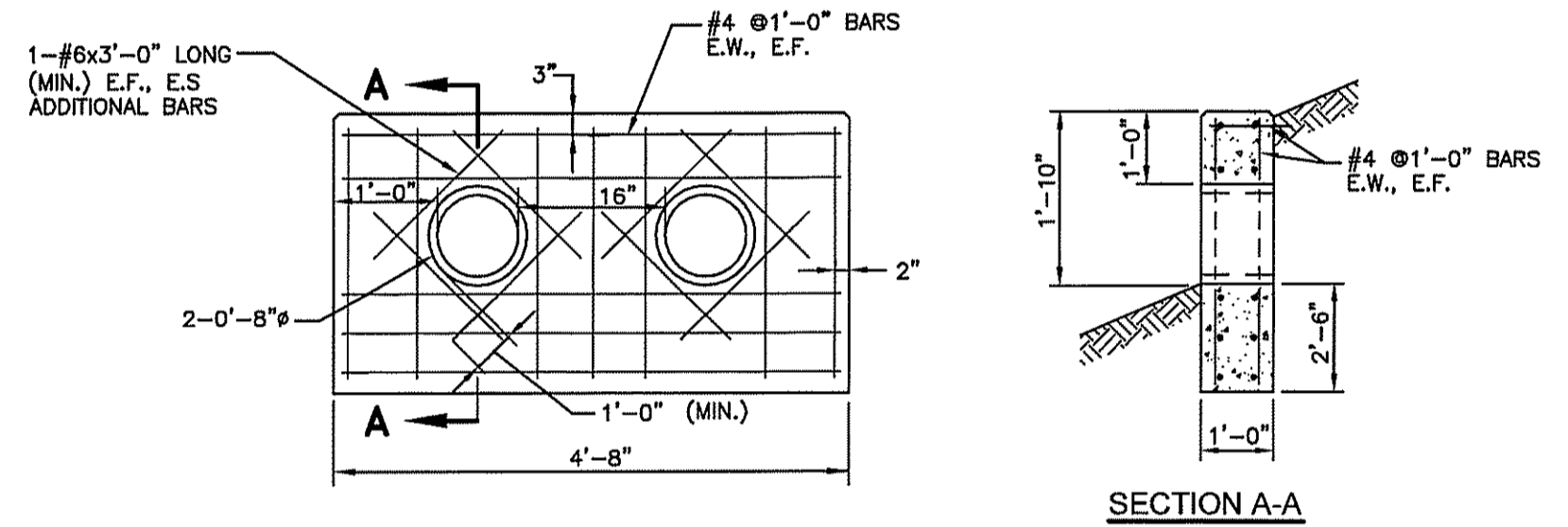
TYPICAL STORM PIPE TRENCH DETAIL
NOT TO SCALE



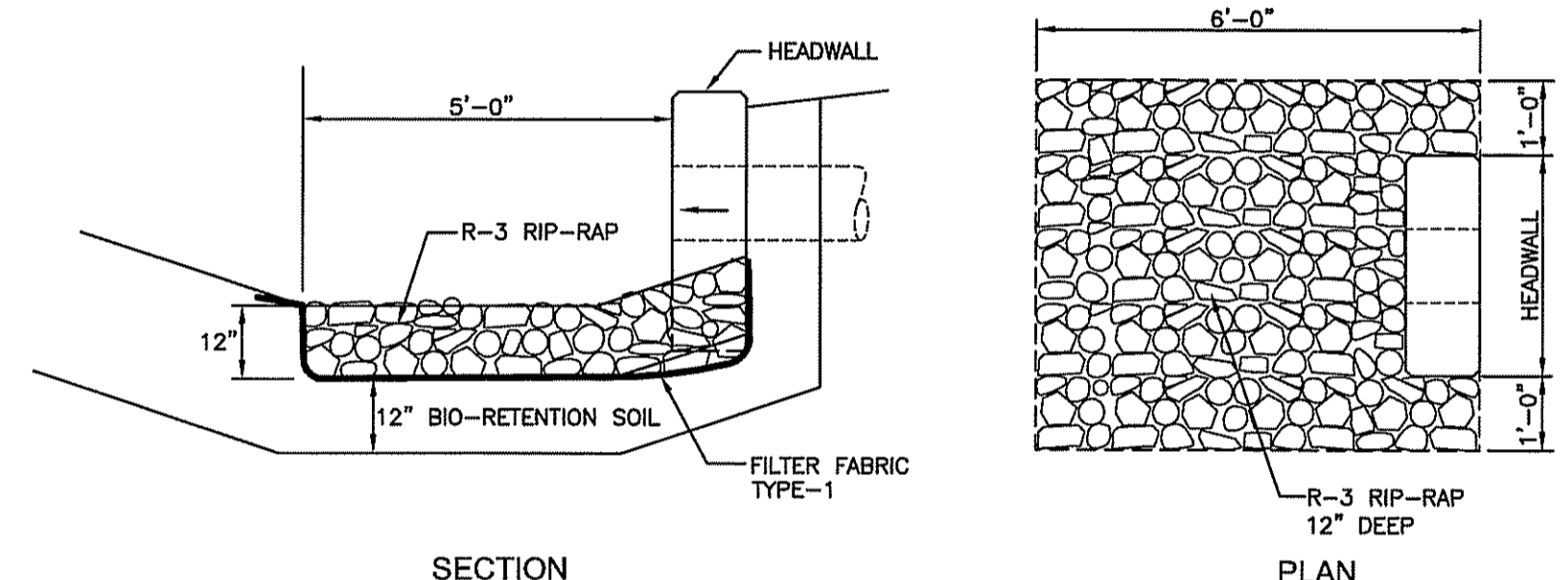
12-INCH ORIFICE OUTLET DETAIL
NOT TO SCALE



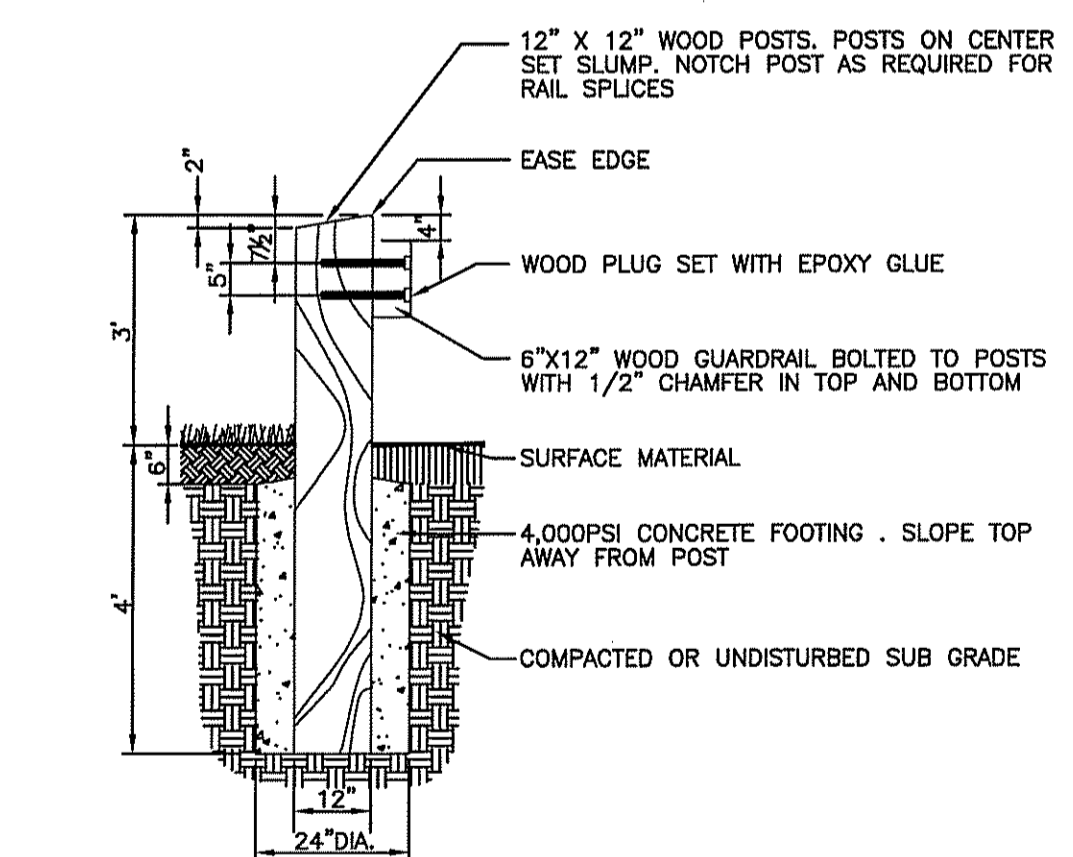
8-INCH COMPOST FILTER SOCK
NOT TO SCALE



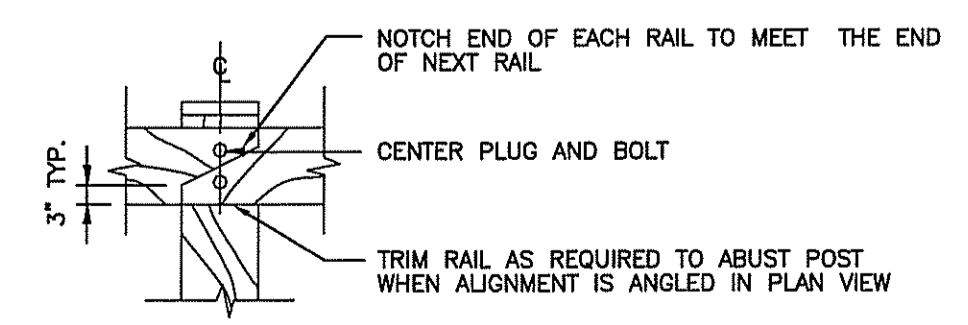
DOUBLE HEADWALL (2.1.D) MOD.
NOT TO SCALE



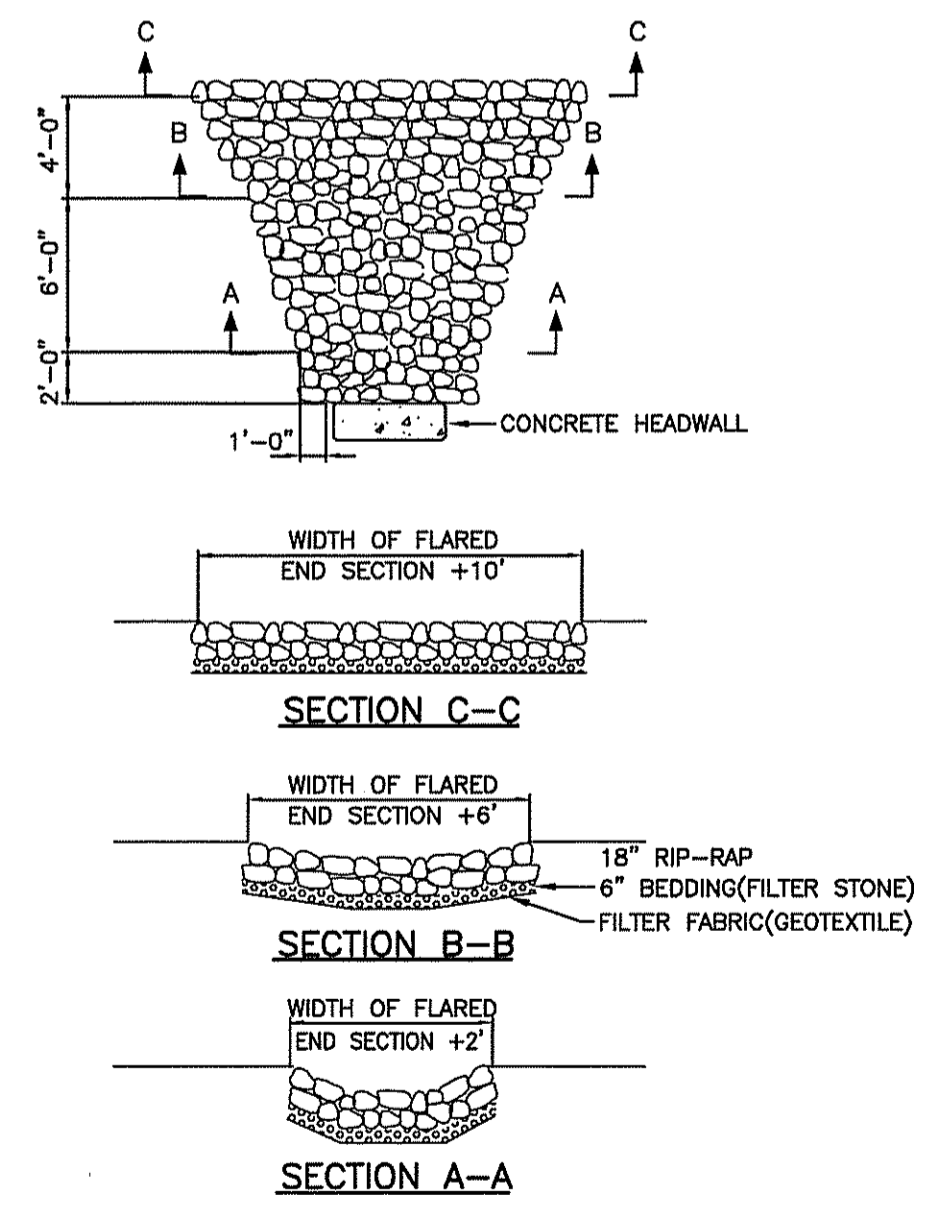
BIO-RETENTION RIP-RAP DETAIL
NOT TO SCALE



WOOD GUARDRAIL SECTION
NOT TO SCALE



WOOD GUARDRAIL ELEVATION
NOT TO SCALE



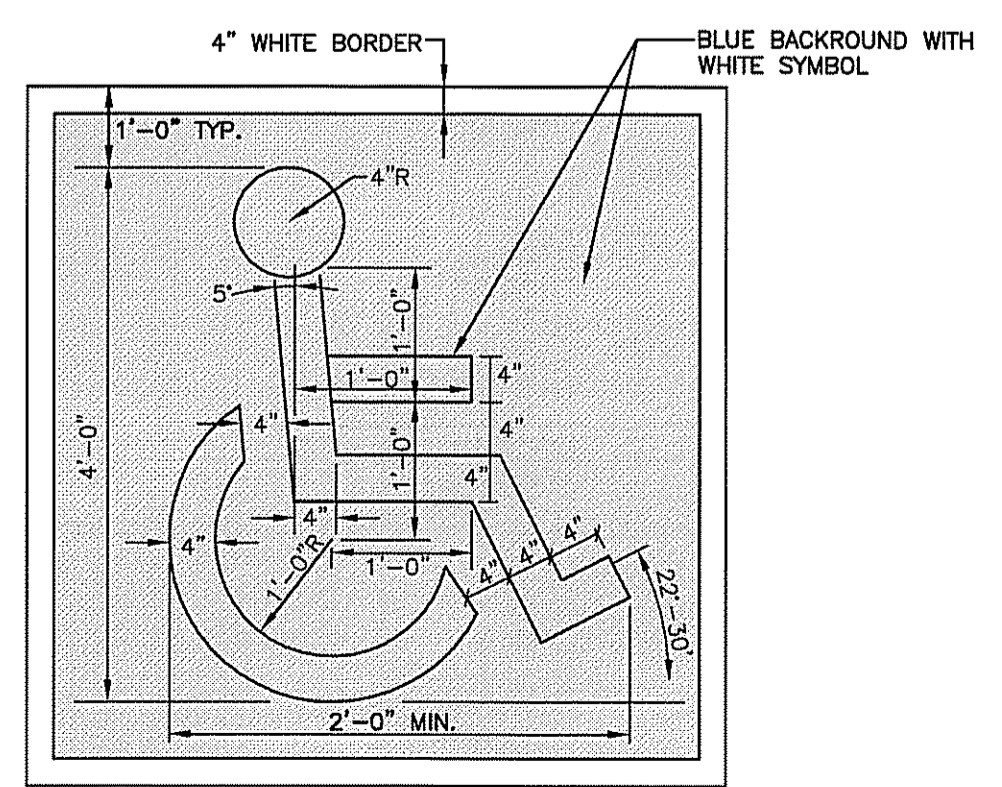
RIP-RAP PAD DETAIL (RRP)
NOT TO SCALE

- NOTES:
- RIP-RAP AND BEDDING SHALL BE IN ACCORDANCE WITH SECTION M.10 OF THE RI STD. SPECIFICATIONS FOR BRIDGE AND HIGHWAY. RIP-RAP SHALL BE MODIFIED NSA NO. R-4, BEDDING SHALL BE MODIFIED NSA NO. FS-2.
 - DIMENSIONS MAY BE MODIFIED BY ENGINEER TO MEET FIELD CONDITIONS.
 - UNLESS OTHERWISE SPECIFIED, DUMPED RIP-RAP SHALL BE USED.

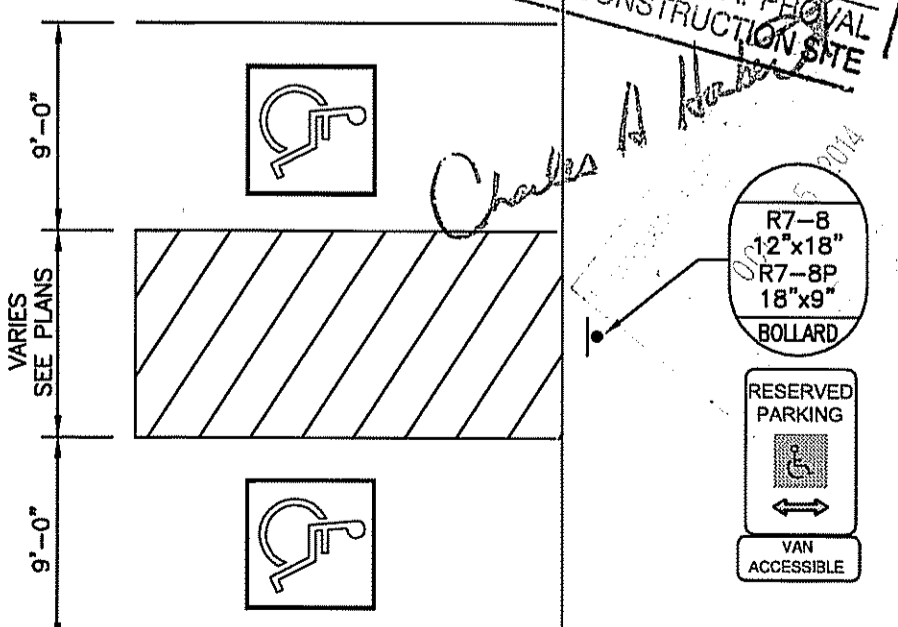
- NOTES:
- THE SPACING OF THE PAVEMENT MARKINGS WILL BE AS SHOWN ON THE PLAN.

SYMBOLS SHALL MEET THE REQUIREMENTS OF THE FHWA STANDARD ALPHABET AND SYMBOLS FOR HIGHWAY PAVEMENT MARKINGS.

PAVEMENT MARKING ARROWS
NOT TO SCALE

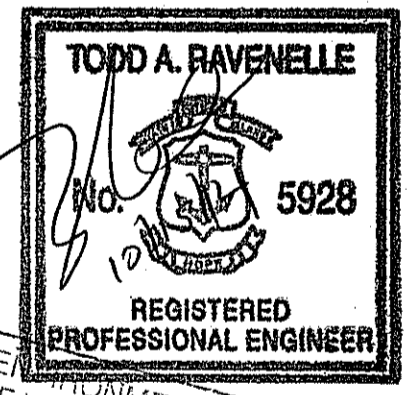


PAINTED HANDICAP SYMBOL
NOT TO SCALE



HANDICAP PARKING STALL VAN ACCESSIBLE
NOT TO SCALE

NOTE:
ALL PARKING AREA STRIPING SHALL BE 4" WIDE WHITE UNLESS LABELED OTHERWISE.



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF FRESHWATER WETLANDS RESOURCES
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED OCT 23 2014 FILE # 14-D-33
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

PROJECT
**FINE ARTS CENTER PARKING LOT
URI CAMPUS
KINGSTON, RHODE ISLAND**

CLIENT
UNIVERSITY OF RHODE ISLAND

Gordon R. Archibald, Inc.
Civil and Environmental Engineers
Pawtucket, Rhode Island

DRAWING TITLE
DETAILS 1

PROJECT NO.: 1456

DATE: OCTOBER 2014

SCALE: AS NOTED

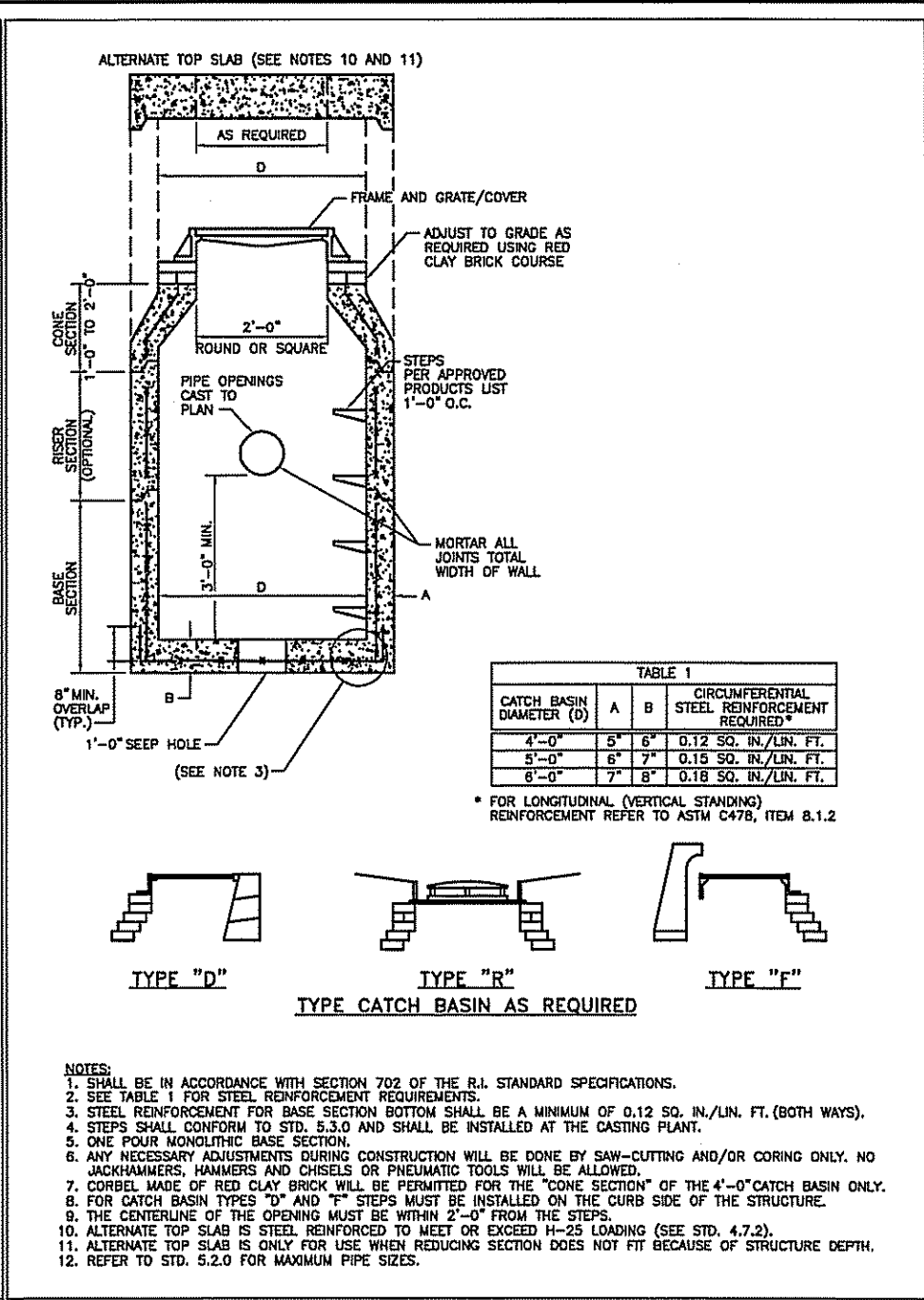
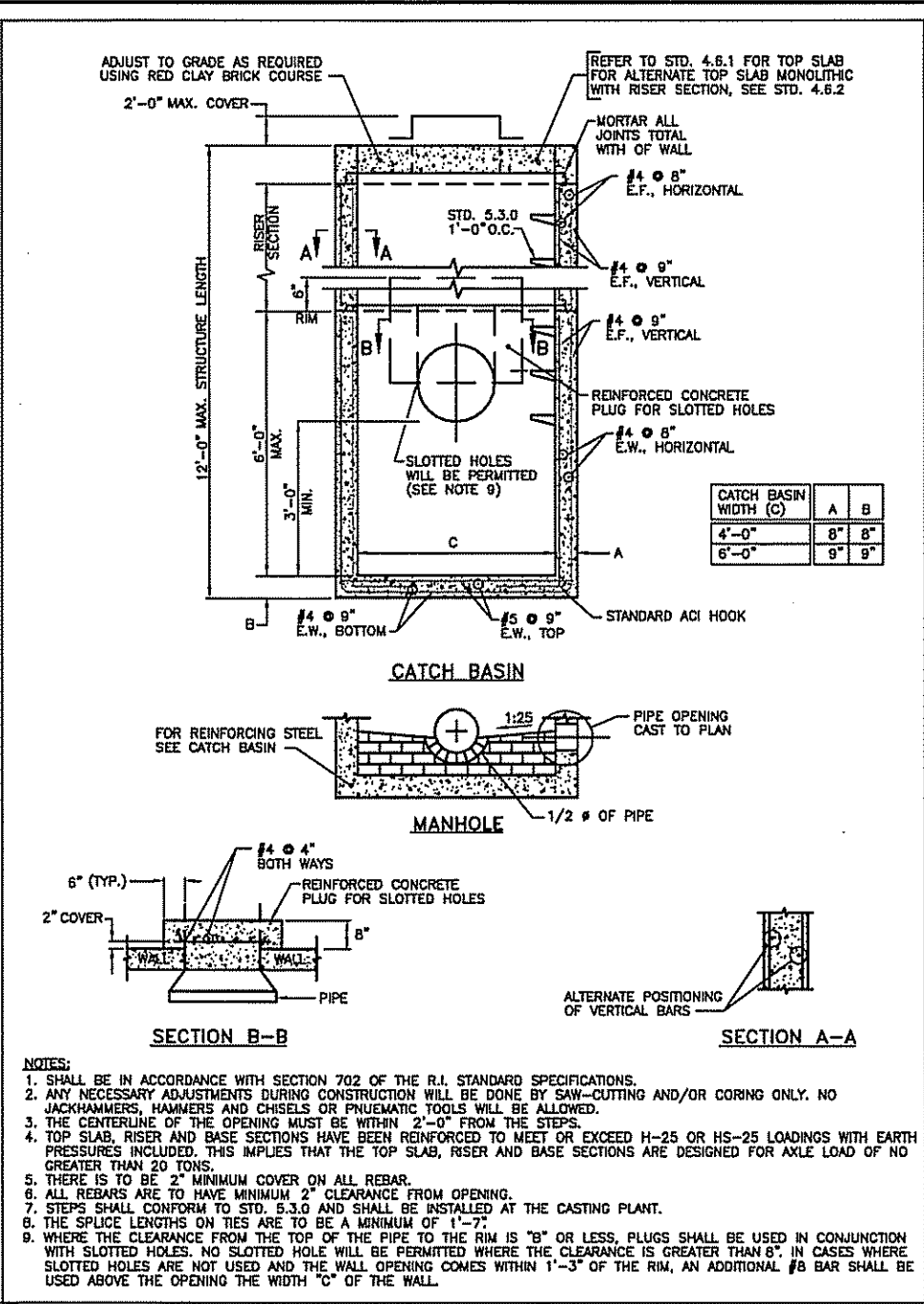
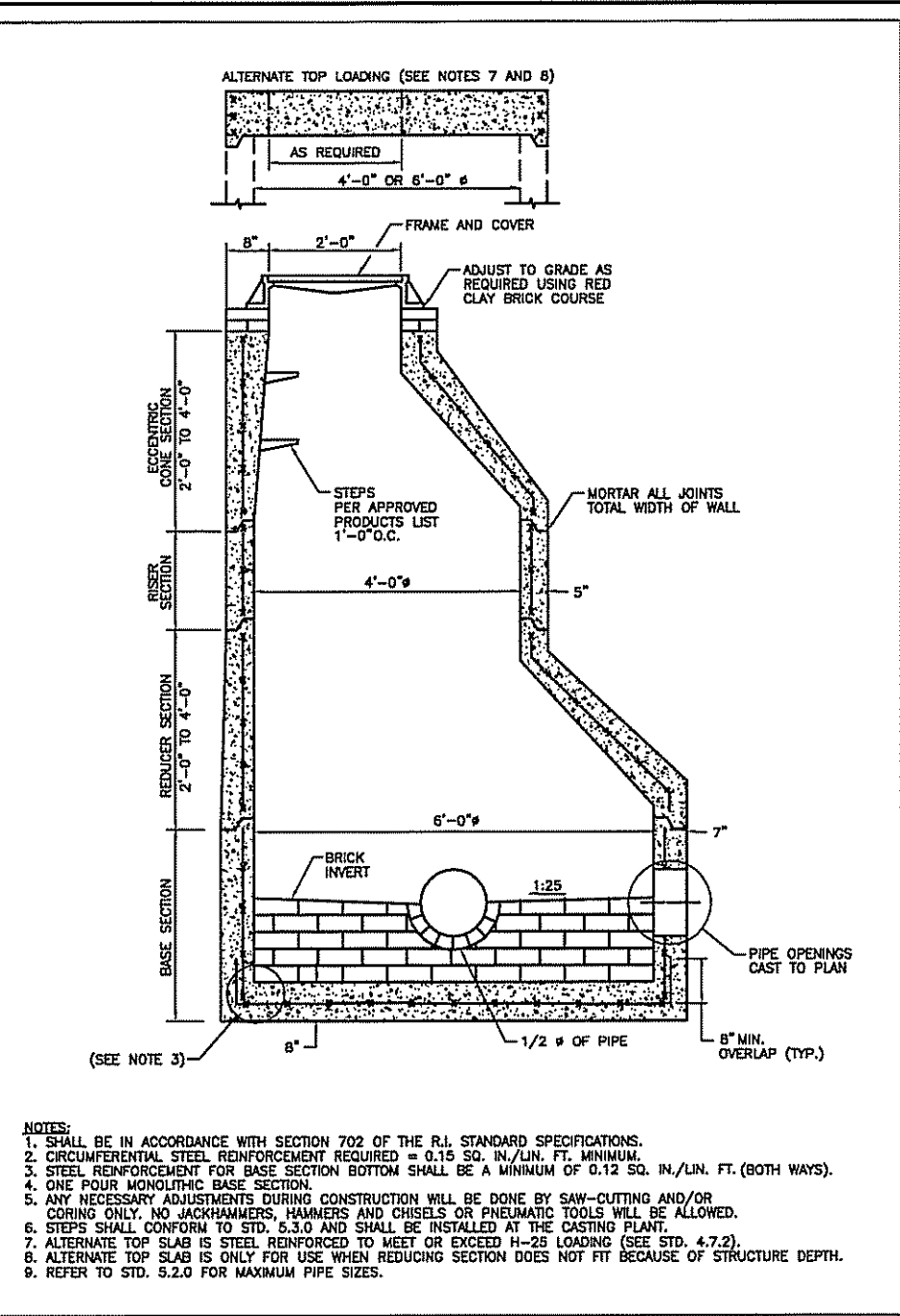
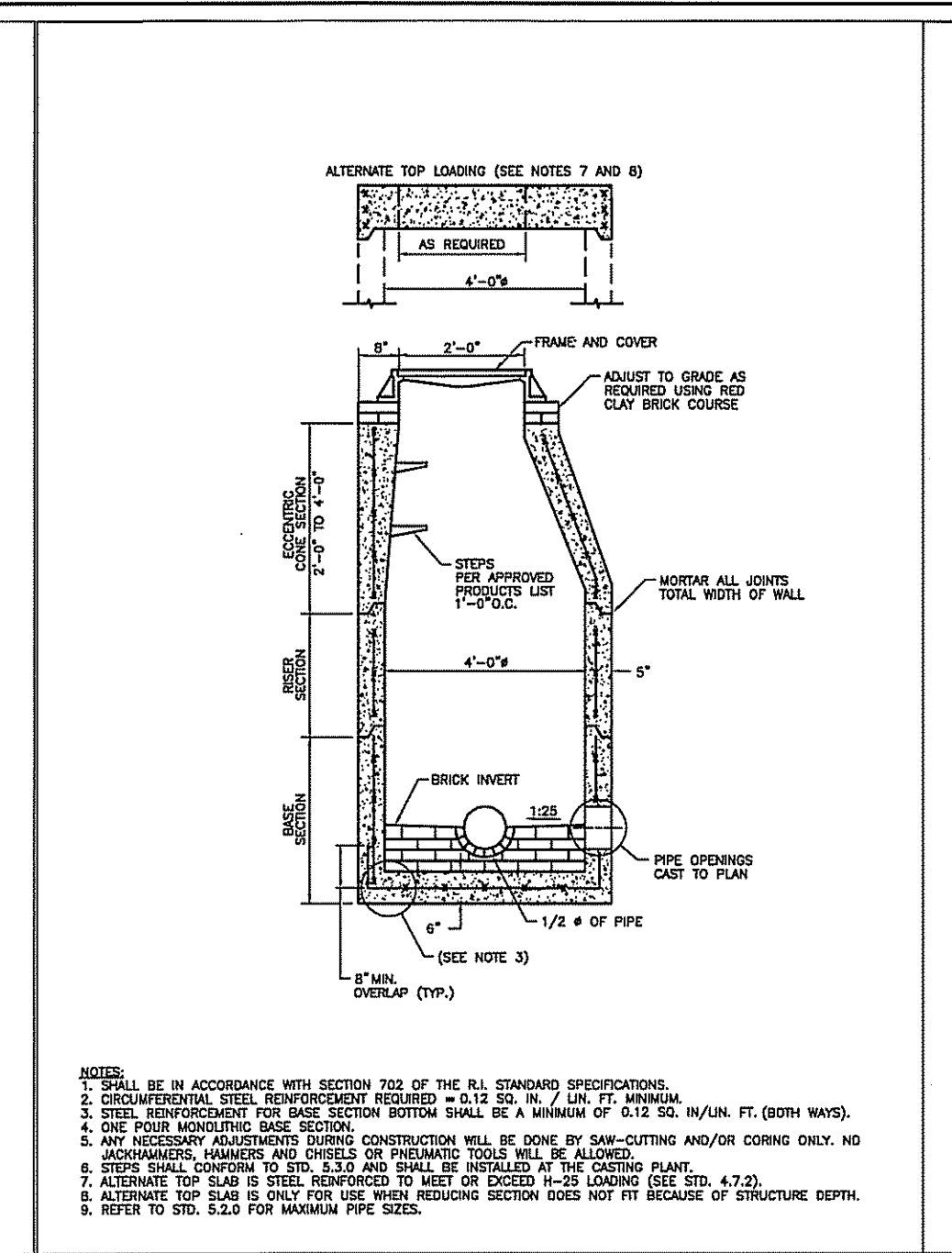
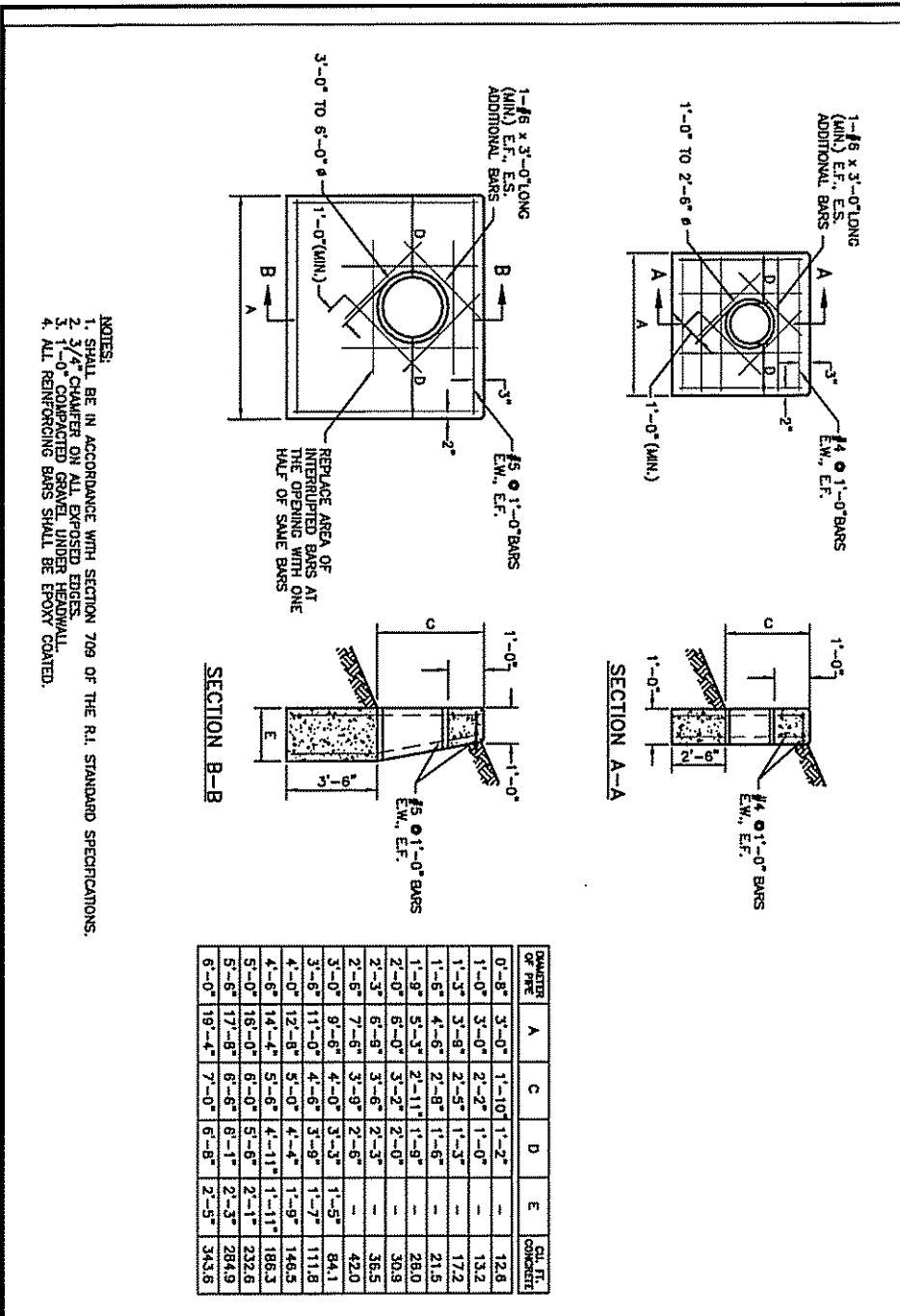
DRAWN BY: LBD

CHECKED BY: TAR

DRAWING NUMBER

10

SHEET 10 OF 14



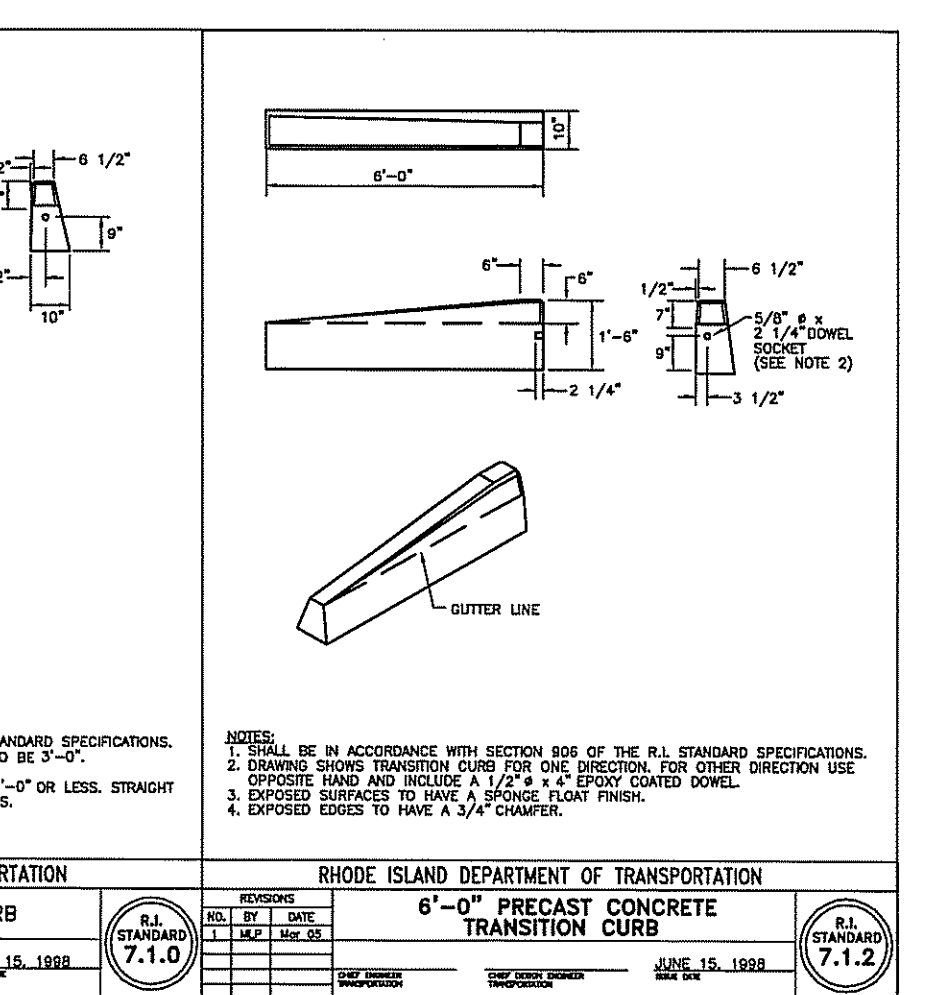
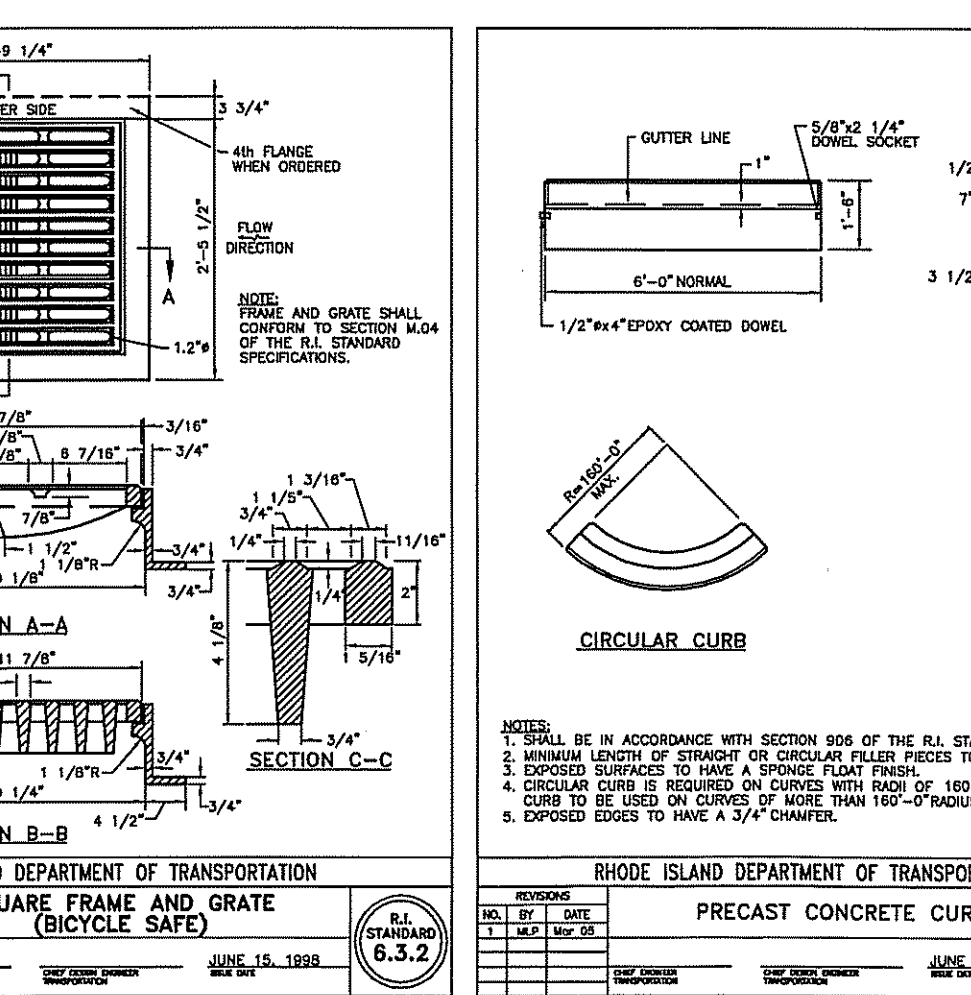
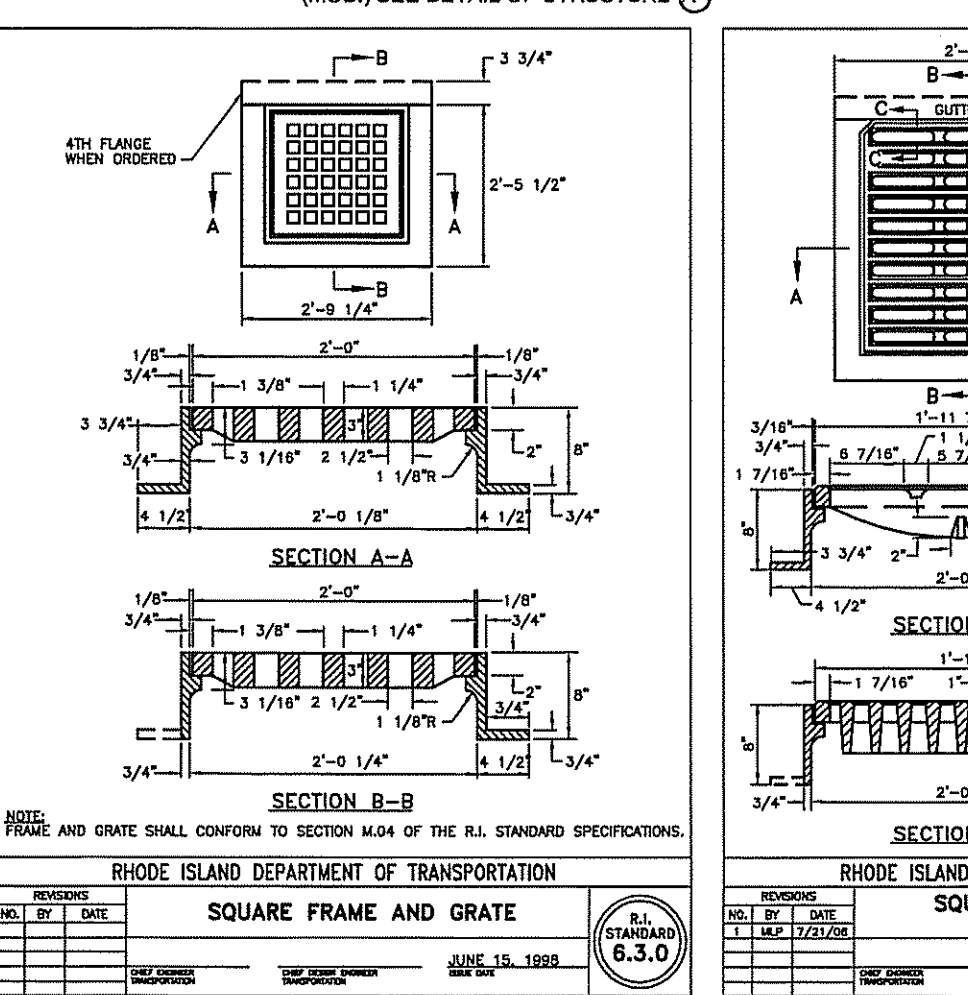
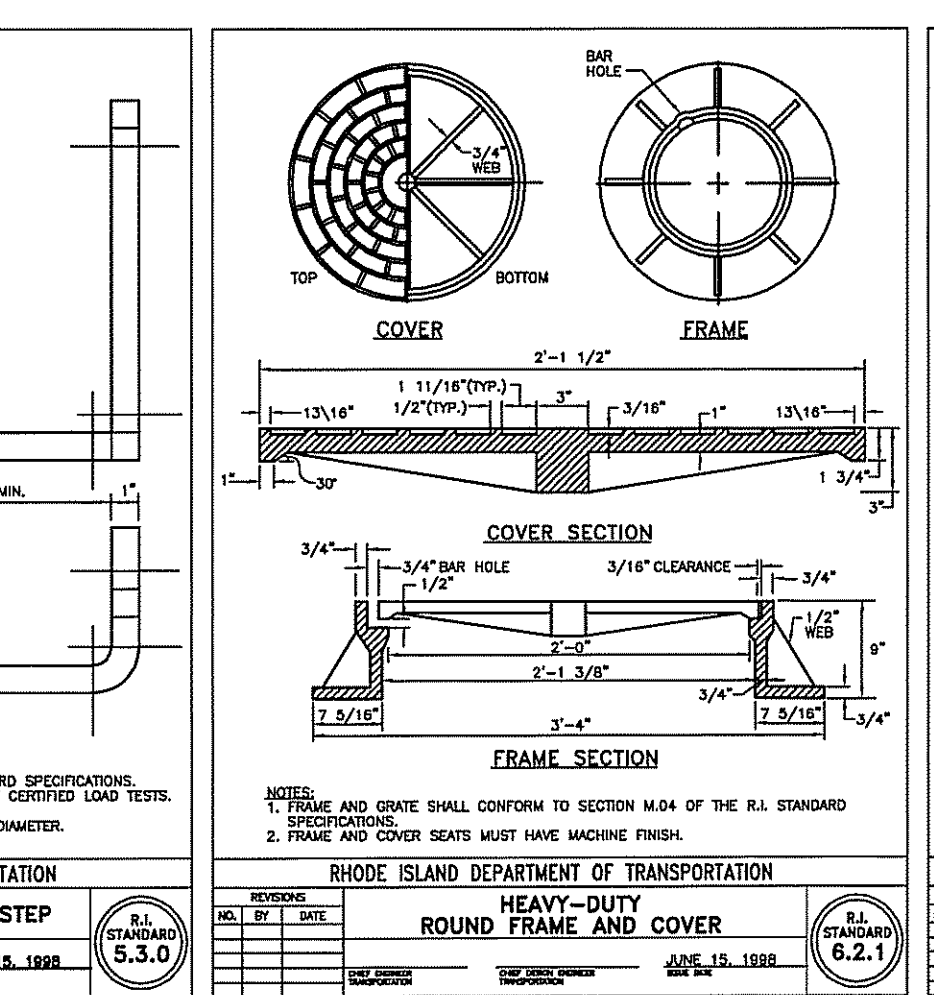
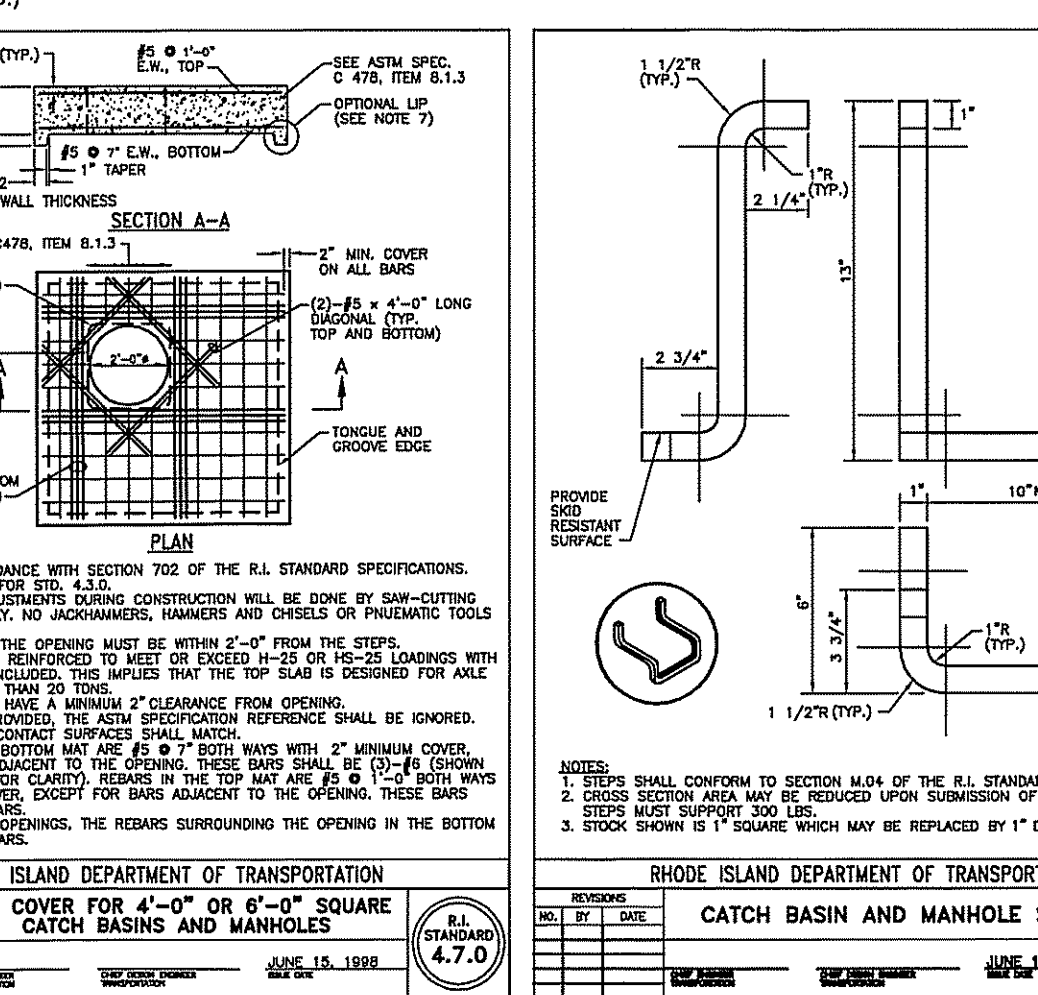
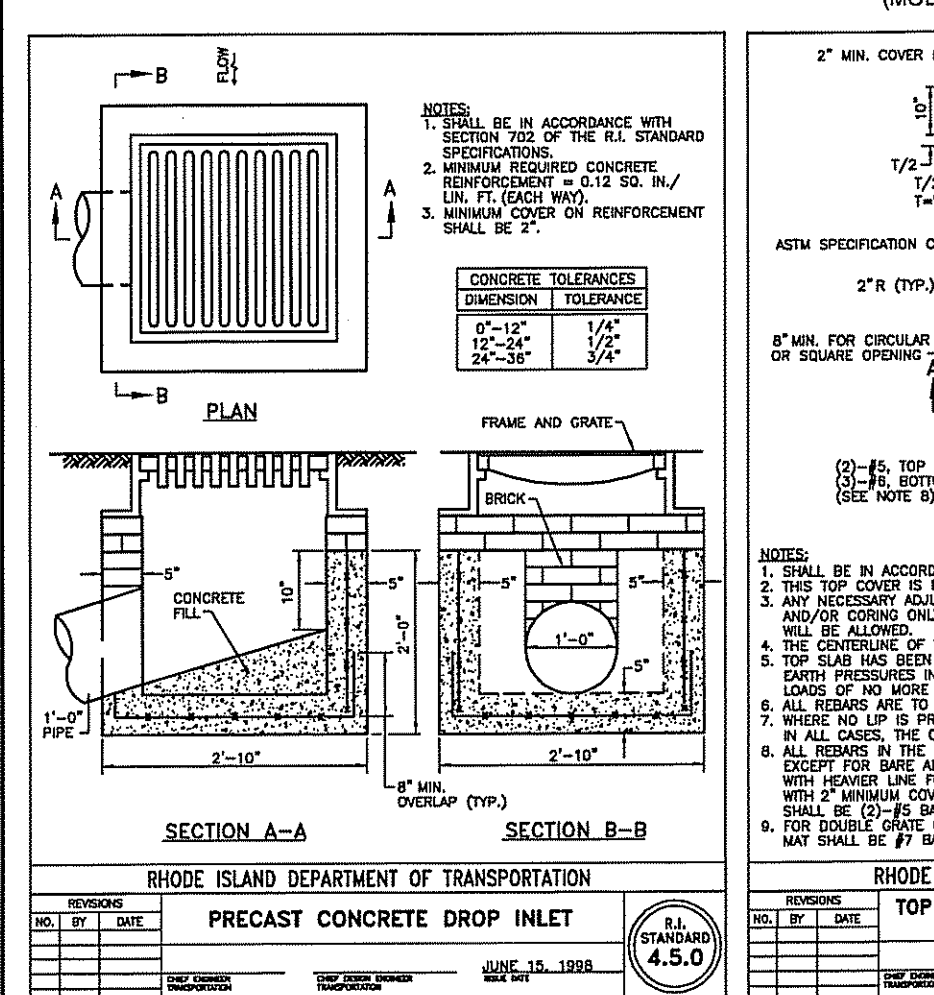
RHODE ISLAND DEPARTMENT OF TRANSPORTATION
CONCRETE HEADWALLS FOR PIPE CULVERTS
REV. NO. DATE
1 15/15/1998
R.I. STANDARD 2.1.0

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
PRECAST 4'-0" ROUND MANHOLE
REV. NO. DATE
1 15/15/1998
R.I. STANDARD 4.2.0

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
PRECAST 6'-0" ROUND MANHOLE
REV. NO. DATE
1 15/15/1998
R.I. STANDARD 4.2.0

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
PRECAST 4'-0" OR 6'-0" SQUARE MANHOLE OR CATCH BASIN
REV. NO. DATE
1 15/15/1998
R.I. STANDARD 4.3.0

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
PRECAST 4'-0", 5'-0", OR 6'-0" ROUND CATCH BASIN
REV. NO. DATE
1 15/15/1998
R.I. STANDARD 4.4.0



RHODE ISLAND DEPARTMENT OF TRANSPORTATION
PRECAST CONCRETE DROP INLET
REV. NO. DATE
1 15/15/1998
R.I. STANDARD 4.5.0

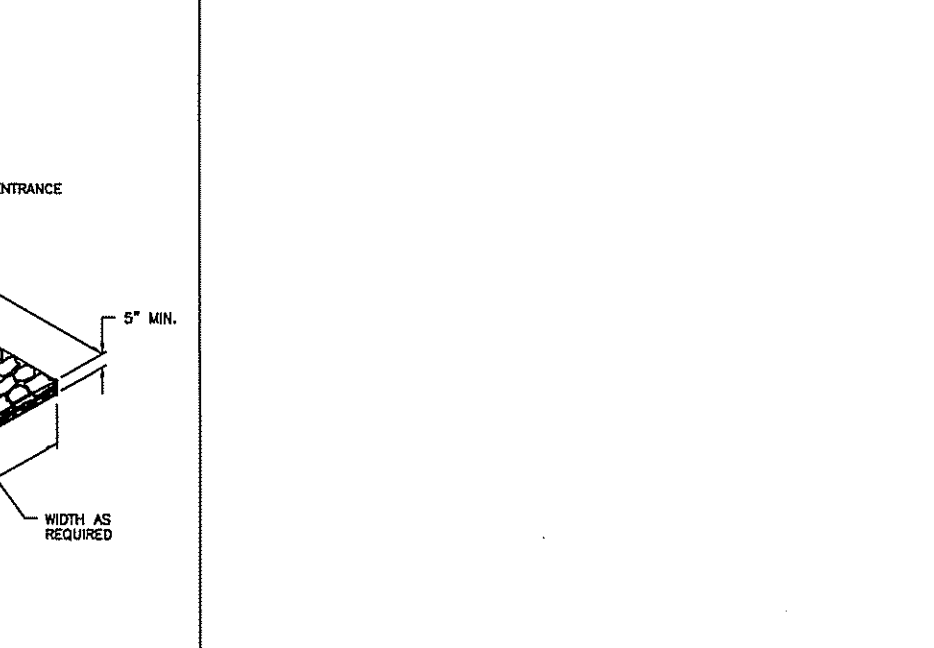
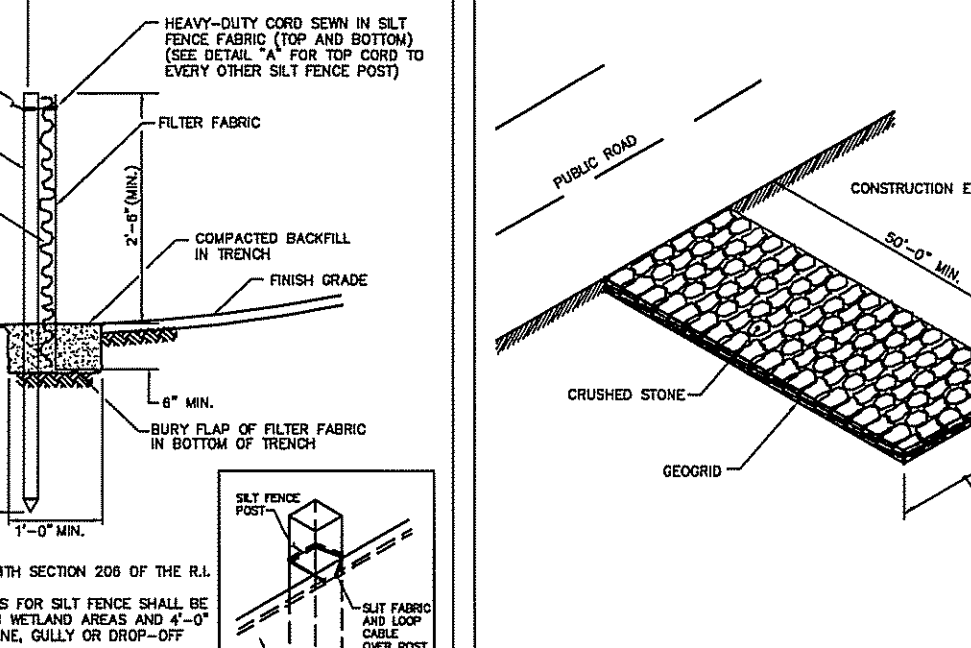
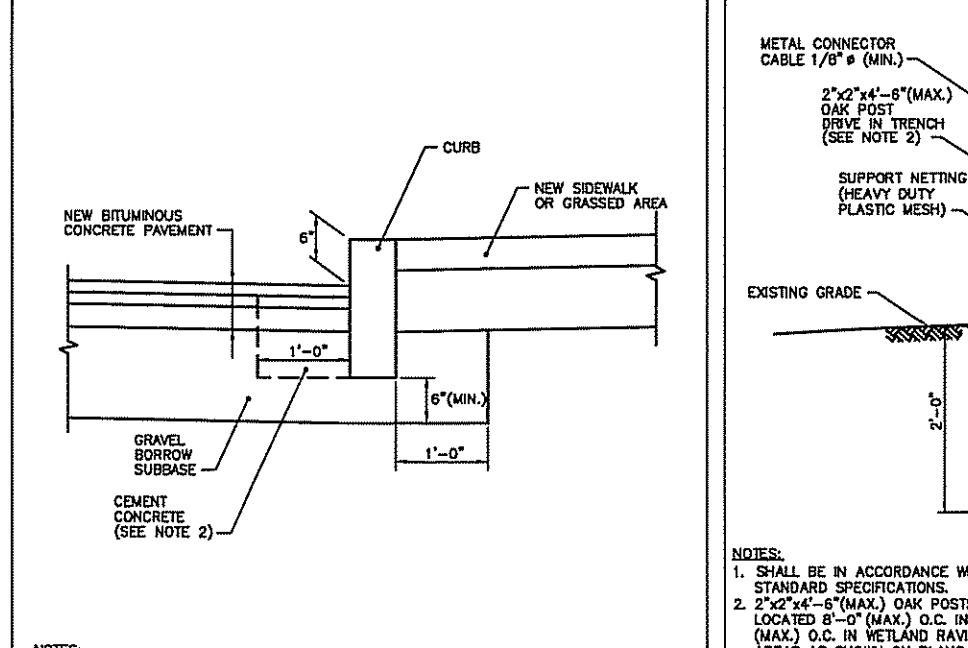
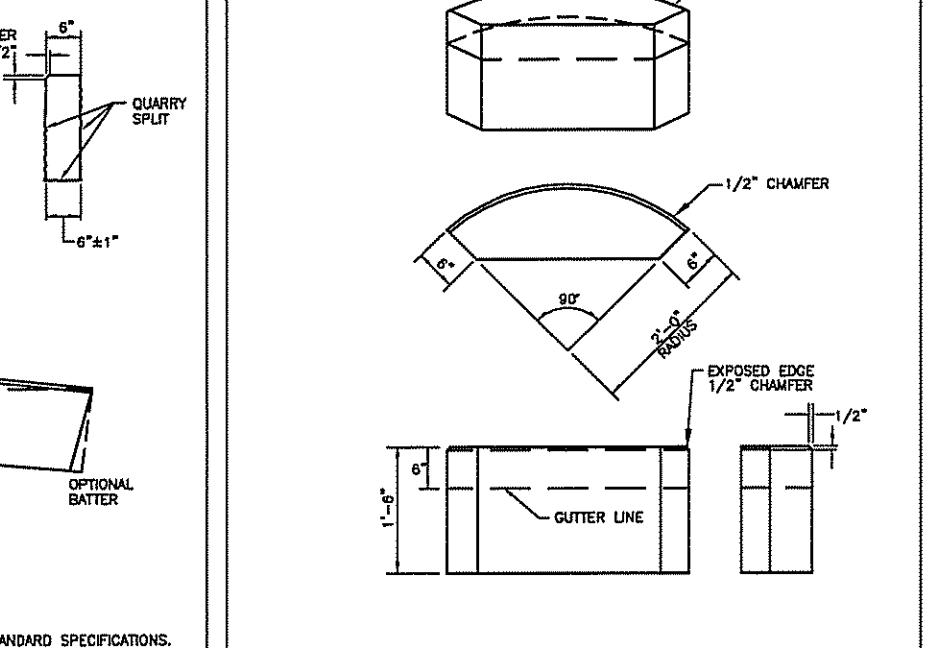
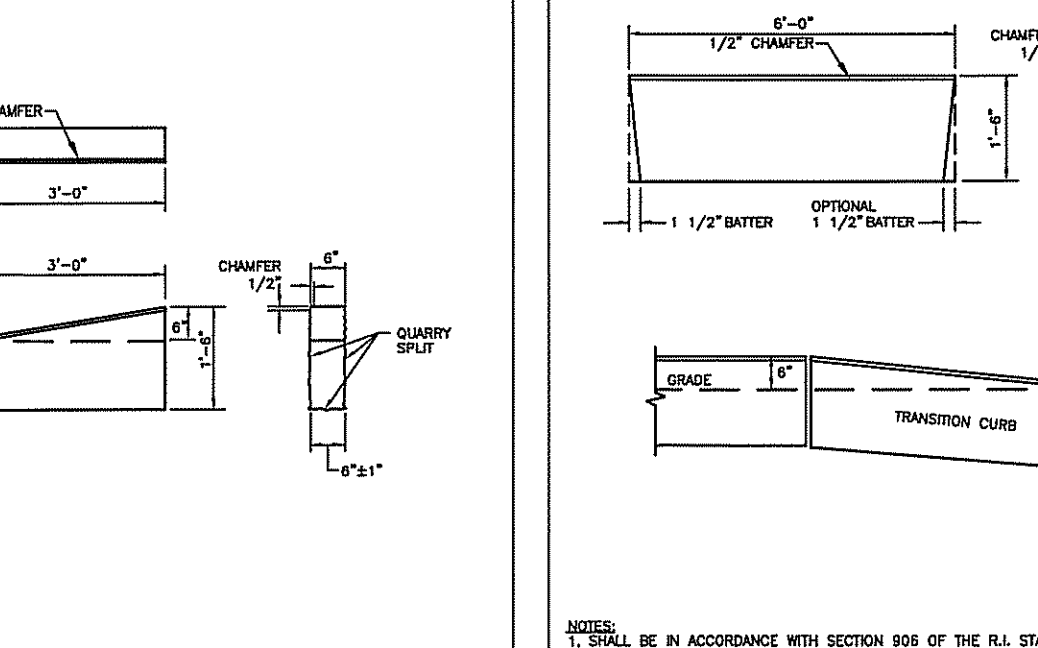
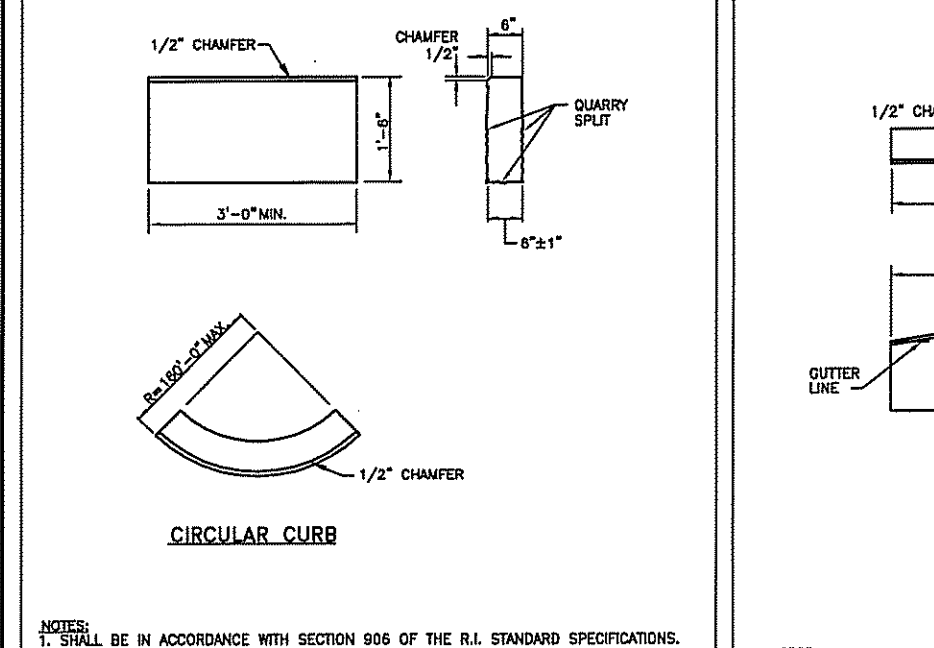
RHODE ISLAND DEPARTMENT OF TRANSPORTATION
TOP COVER FOR 4'-0" OR 6'-0" SQUARE CATCH BASINS AND MANHOLES
REV. NO. DATE
1 15/15/1998
R.I. STANDARD 4.7.0

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
CATCH BASIN AND MANHOLE STEP
REV. NO. DATE
1 15/15/1998
R.I. STANDARD 5.3.0

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
HEAVY-DUTY ROUND FRAME AND COVER
REV. NO. DATE
1 15/15/1998
R.I. STANDARD 6.2.1

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
SQUARE FRAME AND GRATE (BICYCLE SAFE)
REV. NO. DATE
1 15/15/1998
R.I. STANDARD 6.3.2

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
PRECAST CONCRETE CURB
REV. NO. DATE
1 15/15/1998
R.I. STANDARD 7.1.0



RHODE ISLAND DEPARTMENT OF TRANSPORTATION
GRANITE CURB
REV. NO. DATE
1 15/15/1998
R.I. STANDARD 7.3.0

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
3'-0" GRANITE TRANSITION CURB
REV. NO. DATE
1 15/15/1998
R.I. STANDARD 7.3.1

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
6'-0" GRANITE TRANSITION CURB
REV. NO. DATE
1 15/15/1998
R.I. STANDARD 7.3.2

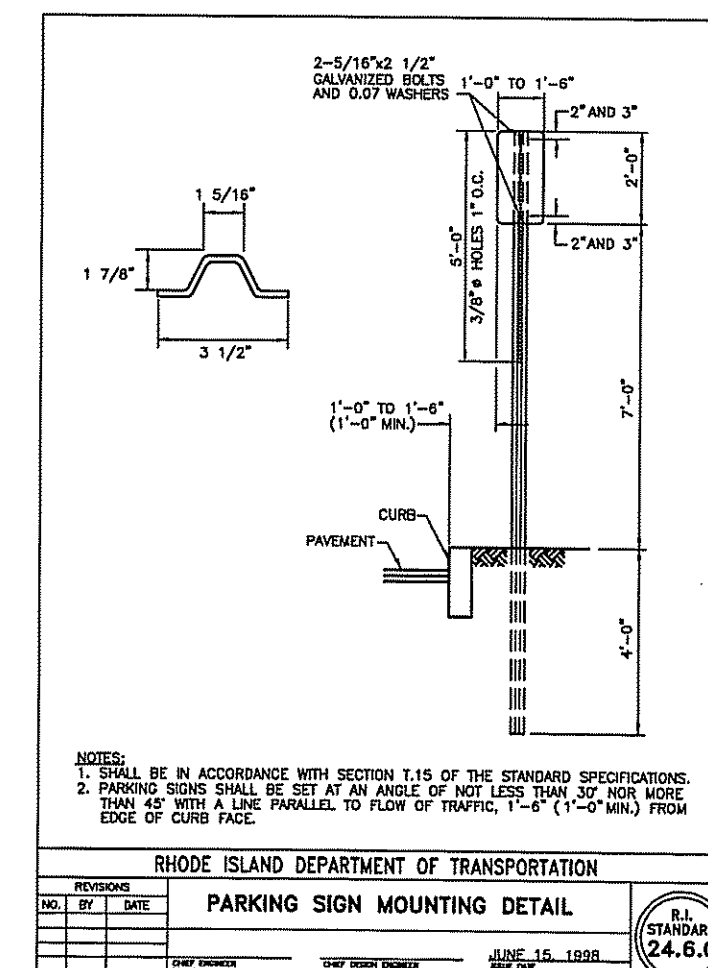
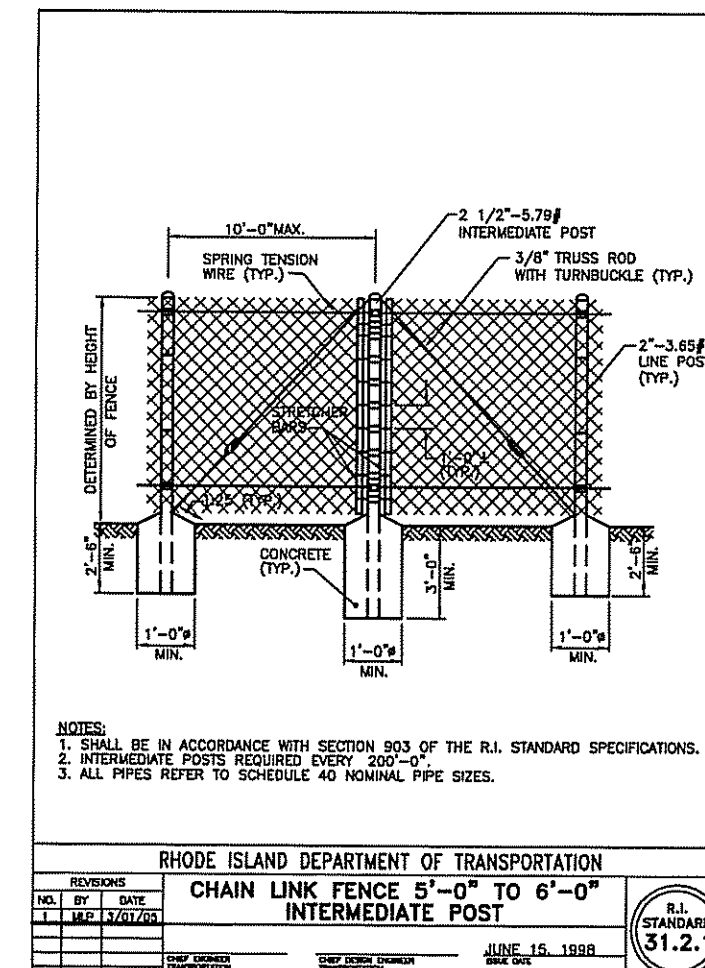
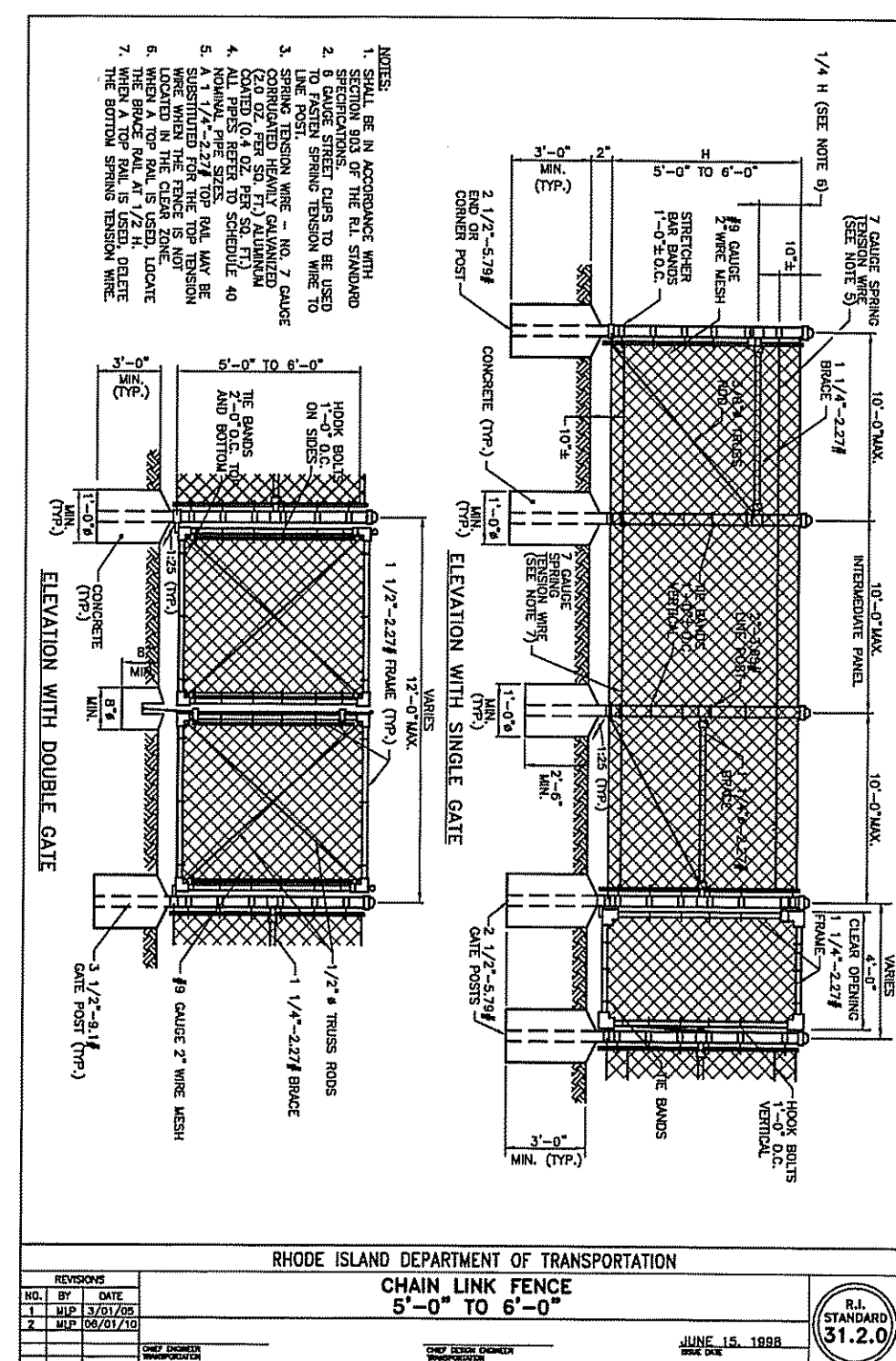
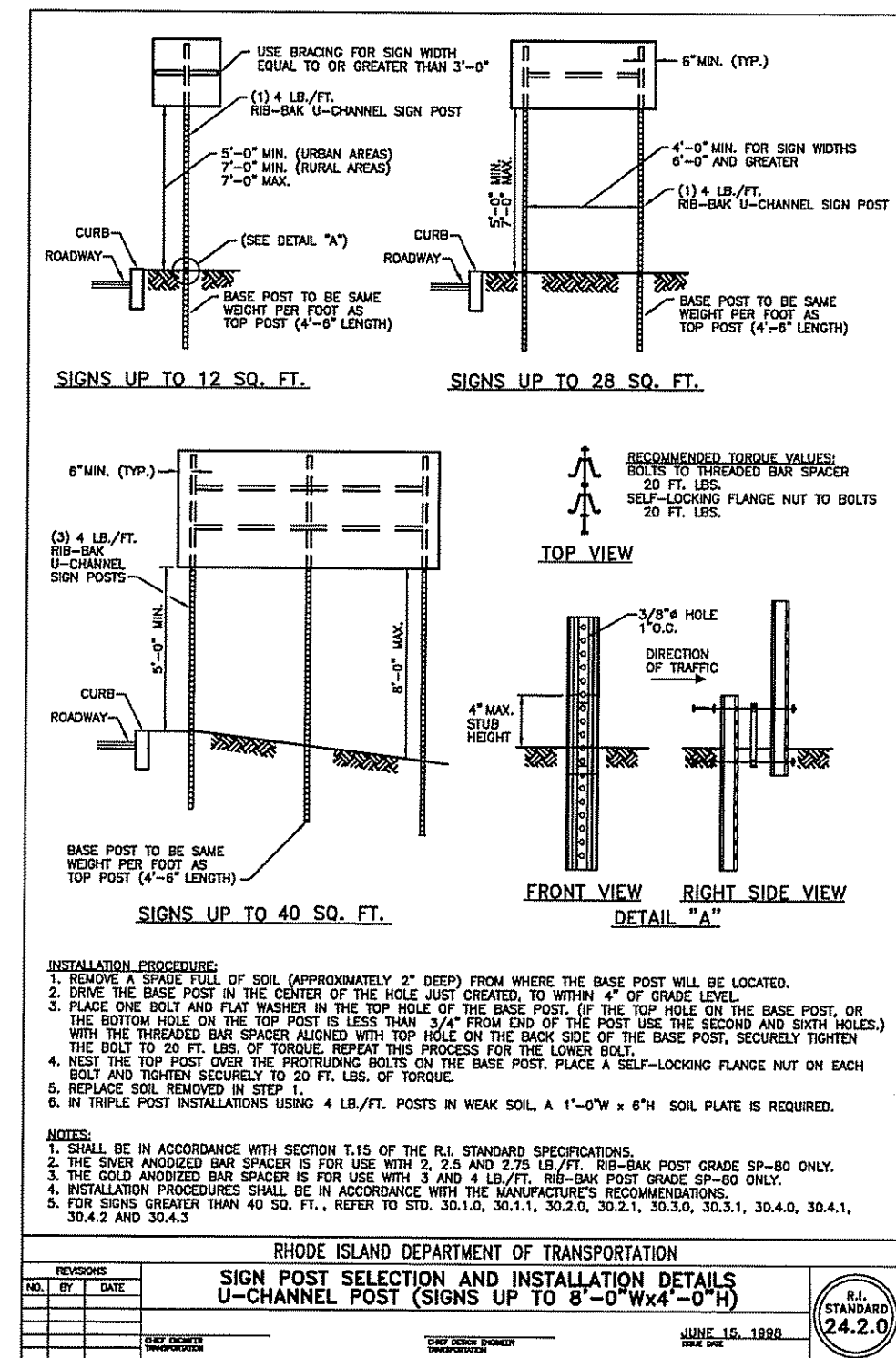
RHODE ISLAND DEPARTMENT OF TRANSPORTATION
GRANITE 2'-0" RADIUS CORNER
REV. NO. DATE
1 15/15/1998
R.I. STANDARD 7.3.4

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
CURB SETTING DETAIL
REV. NO. DATE
1 15/15/1998
R.I. STANDARD 7.6.0

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
SILT FENCE DETAIL
REV. NO. DATE
1 15/15/1998
R.I. STANDARD 9.2.0

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
OCT 23 2014 FILE # 14-0123
NO CHANGES ALLOWED WITHOUT APPROVAL
APPROVED PLANS MUST BE COPIED FROM THIS SET

REGISTERED PROFESSIONAL ENGINEER
No. 5928
Rhode Island



RHODE ISLAND DEPARTMENT OF TRANSPORTATION

NO. BY DATE
1 T.A.R. 10/15/2014

R.I. STANDARD 24.2.0

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

NO. BY DATE
1 T.A.R. 10/15/2014

R.I. STANDARD 31.2.0

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

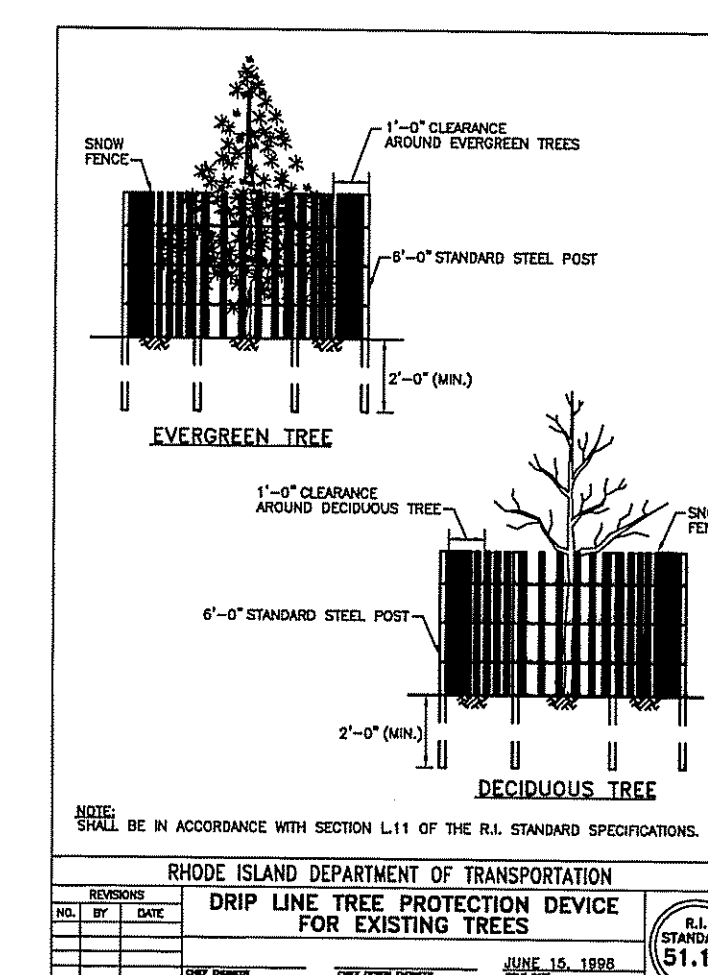
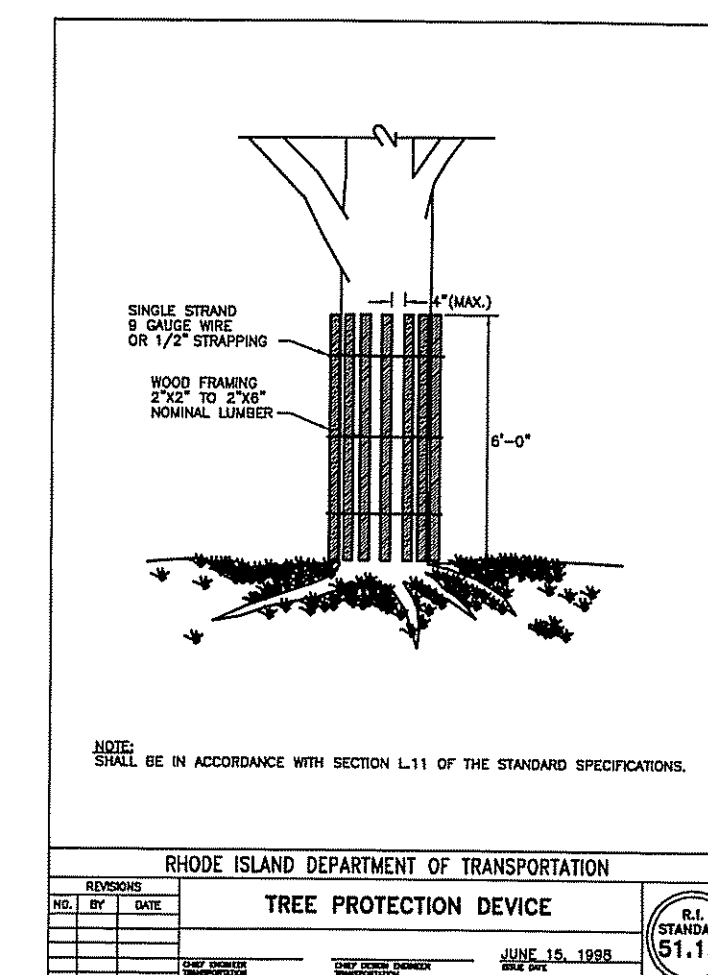
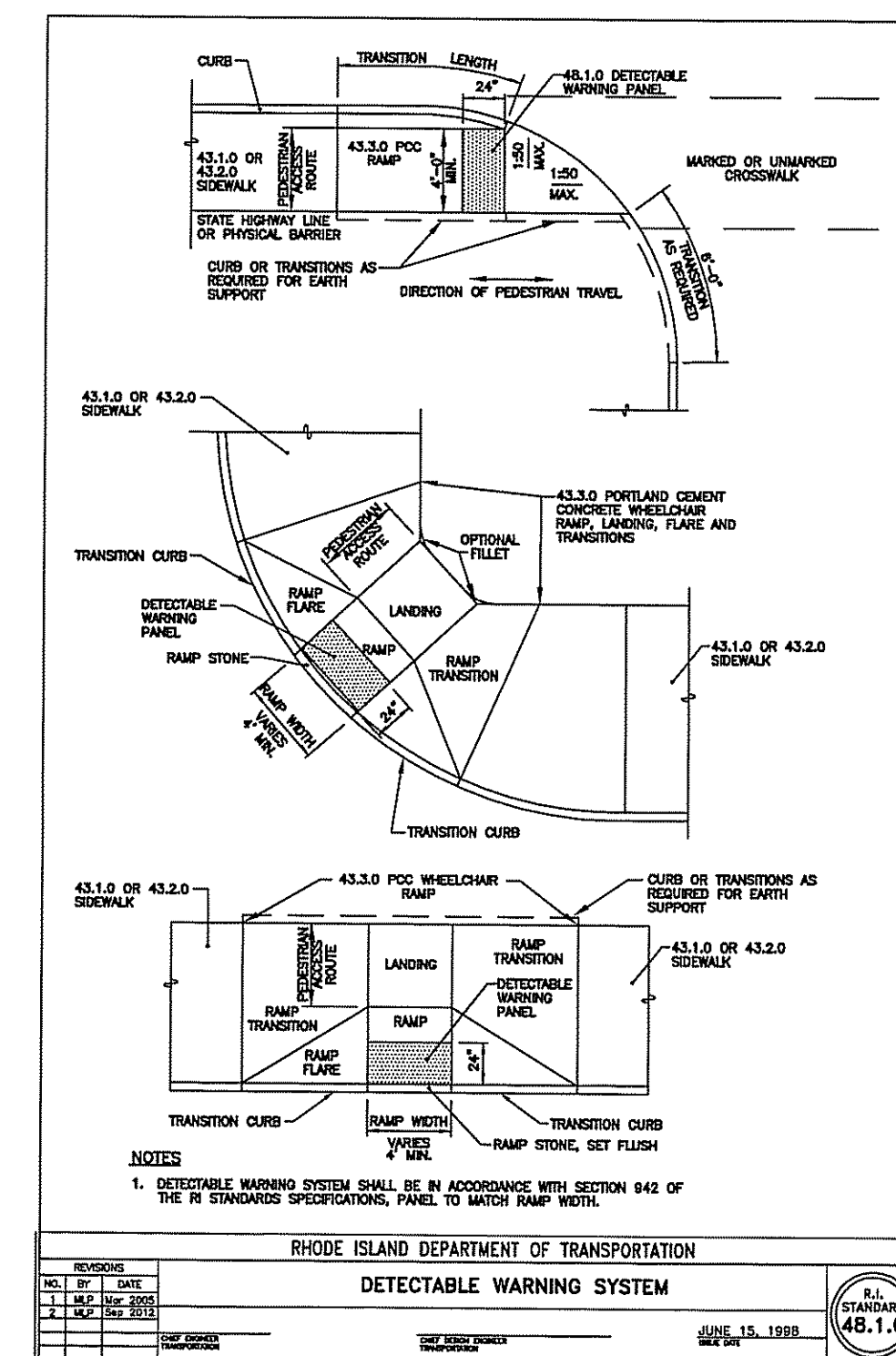
NO. BY DATE
1 T.A.R. 10/15/2014

R.I. STANDARD 24.5.0

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

NO. BY DATE
1 T.A.R. 10/15/2014

R.I. STANDARD 43.1.0



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
PROTECTION OF WETLANDS PROGRAM
APPROVED WITH CONDITIONS
APPROVAL LETTER OF APPROVAL
FILE # 14-013
OCT. 23 2014
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Oct 15 2014

TODD A. RAVENELLE
No. 5928
REGISTERED PROFESSIONAL ENGINEER

PROJECT: FINE ARTS CENTER PARKING LOT
URI CAMPUS
KINGSTON, RHODE ISLAND

CLIENT: UNIVERSITY OF RHODE ISLAND

DRAWING TITLE: DETAILS 3

BY: [REVISIONS]

NO. DATE

PROJECT NO.: 1456

DATE: OCTOBER 2014

SCALE: NONE

DRAWN BY: LBD

CHECKED BY: TAR

DRAWING NUMBER: 12

SHEET 12 OF 14

PLANTING LEGEND

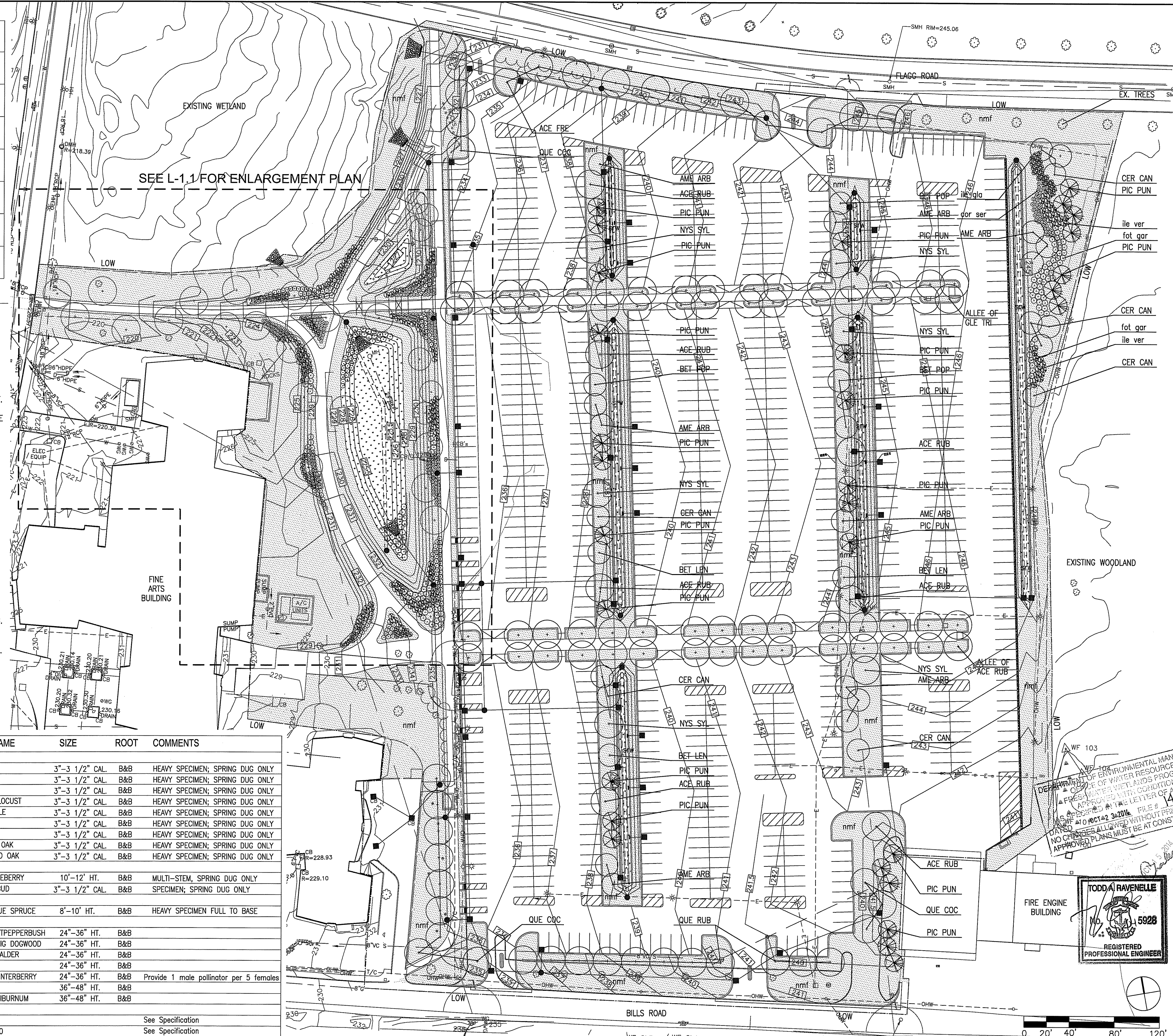
SYMBOL	TYPE	DETAIL
	DECIDUOUS TREE	
	ORNAMENTAL/FLOWERING TREE	
	EVERGREEN TREE	
	EVERGREEN SHRUB PLANTINGS	
	DECIDUOUS SHRUB PLANTINGS	
	NO MOW FESCUE	
	RAIN GARDEN SEED MIX	

PLANTING NOTES

- IF DISCREPANCIES EXIST BETWEEN THE NUMBER OF PLANTS DRAWN ON THE PLANTING PLAN AND THE NUMBER OF PLANTS IN THE PLANT LIST, THE PLANTING PLAN SHALL GOVERN.
- ALL NEW PLANT MATERIAL SHALL CONFORM TO THE MINIMUM GUIDELINES ESTABLISHED FOR NURSERY STOCK PUBLISHED BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION. IN ADDITION, ALL NEW PLANT MATERIAL FOR THE PROJECT SHALL BE OF SPECIMEN QUALITY.
- ALL NEW PLANTS TO BE BALLED AND BURLAPPED OR CONTAINER-GROWN, UNLESS OTHERWISE NOTED ON THE PLANT LIST.
- THE CONTRACTOR SHALL SUPPLY ALL NEW PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON THE DRAWINGS.
- ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE, AND ONLY AFTER WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT.
- ALL NEW PLANTS SHALL BE TAGGED AND APPROVED BY THE LANDSCAPE ARCHITECT AT THE NURSERY PRIOR TO DIGGING OR DELIVERY TO THE SITE.
- THE LOCATIONS OF ALL UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE DIAGRAMMATIC ONLY. CONTRACTOR SHALL COORDINATE LOCATION OF ALL UTILITIES (LINES, DUCTS, CONDUITS, SLEEVES, FOOTINGS, ETC.) WITH LOCATIONS OF PROPOSED LANDSCAPE ELEMENTS (WALLS, FENCE, FOOTINGS, TREE ROOTBALLS, PROPOSED LIGHTING FOOTINGS, ETC.). EXCAVATION REQUIRED WITHIN PROXIMITY OF UTILITY LINES SHALL BE DONE BY HAND. ANY DAMAGE AND INCURRED COSTS DUE TO FAILURE OF THE CONTRACTOR TO CONTACT THE PROPER AUTHORITIES SHALL BE BORNE BY THE CONTRACTOR. CONTACT DIG-SAFE PRIOR TO COMMENCEMENT OF WORK.
- STAKE LOCATION OF ALL PROPOSED PLANTING FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO THE COMMENCEMENT OF PLANTING.
- NEW SHRUBS AND GROUND COVER SHALL BEAR THE SAME RELATIONSHIP TO GRADE AS IT BORE TO PREVIOUS GRADE. TREES SHALL BE SET 3" HIGHER THAN PREVIOUS GRADE. NO TREES SHALL BE PLANTED BEFORE ACCEPTANCE OF ROUGH GRADING.
- ALL PLANT BEDS TO RECEIVE THREE INCHES (3") OF BARK MULCH AS PER SPECIFICATIONS.
- ALL EXISTING TREES TO REMAIN SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION. PROTECTION TECHNIQUES SHALL BE REVIEWED AND APPROVED BY THE ENGINEER.

PLANTING SCHEDULE

SYM	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	COMMENTS
DECIDUOUS TREES						
ACE RUB		<i>Acer rubrum</i> 'October Glory'	RED MAPLE	3"-3 1/2" CAL.	B&B	HEAVY SPECIMEN; SPRING DUG ONLY
BET LEN		<i>Betula lenta</i>	SWEET BIRCH	3"-3 1/2" CAL.	B&B	HEAVY SPECIMEN; SPRING DUG ONLY
BET POP		<i>Betula populifolia</i>	GRAY BIRCH	3"-3 1/2" CAL.	B&B	HEAVY SPECIMEN; SPRING DUG ONLY
GLE TRI		<i>Gleditsia triacanthos</i> 'Haloka'	HALKA HONEYLOCUST	3"-3 1/2" CAL.	B&B	HEAVY SPECIMEN; SPRING DUG ONLY
ACE FRE		<i>Acer x freemanii</i> 'Autumn Blaze'	FREEMAN MAPLE	3"-3 1/2" CAL.	B&B	HEAVY SPECIMEN; SPRING DUG ONLY
NIS SYL		<i>Nissa sylvatica</i>	BLACK GUM	3"-3 1/2" CAL.	B&B	HEAVY SPECIMEN; SPRING DUG ONLY
QUE COC		<i>Quercus coccinea</i>	SCARLET OAK	3"-3 1/2" CAL.	B&B	HEAVY SPECIMEN; SPRING DUG ONLY
QUE BIC		<i>Quercus bicolor</i>	SWAMP WHITE OAK	3"-3 1/2" CAL.	B&B	HEAVY SPECIMEN; SPRING DUG ONLY
QUE RUB		<i>Quercus rubra</i>	NORTHERN RED OAK	3"-3 1/2" CAL.	B&B	HEAVY SPECIMEN; SPRING DUG ONLY
FLOWERING TREES						
AME ARB		<i>Amelanchier arborea</i>	DOWNY SERVICEBERRY	10"-12" HT.	B&B	MULTI-STEM, SPRING DUG ONLY
CER CAN		<i>Cercis canadensis</i>	EASTERN REDBUD	3"-3 1/2" CAL.	B&B	SPECIMEN; SPRING DUG ONLY
EVERGREEN TREES						
PIC PUN		<i>Picea pungens</i>	COLORADO BLUE SPRUCE	8'-10' HT.	B&B	HEAVY SPECIMEN FULL TO BASE
SHRUBS						
cle aln		<i>Clethra alnifolia</i> 'Hummingbird'	COASTAL SWEETPEPPERBUSH	24"-36" HT.	B&B	
cor ser		<i>Cornus Sericea</i> 'Kelsey'	KELSEY REDTWIG DOGWOOD	24"-36" HT.	B&B	
fol gar		<i>Fothergilla gardenii</i>	DWARF WITCH ALDER	24"-36" HT.	B&B	
ile gla		<i>Ilex glabra</i> 'Shamrock'	INKBERRY	24"-36" HT.	B&B	
ile ver		<i>Ilex verticillata</i> 'Red Sprite'	RED SPRITE WINTERBERRY	24"-36" HT.	B&B	Provide 1 male pollinator per 5 females
ham vir		<i>Hamamelis virginiana</i>	WITCH HAZEL	36"-48" HT.	B&B	
vib den		<i>Viburnum dentatum</i> 'Little Joe'	ARROWWOOD VIBURNUM	36"-48" HT.	B&B	
BIORETENTION GRASSES						
nmf		Prairie Nursery No Mow Seed Mix				See Specification
srw		Ernst Seed Rain Garden Wildlife Mix - ERNMX-180				See Specification



**FINE ARTS CENTER
URI CAMPUS
KINGSTON, RHODE ISLAND**

UNIVERSITY OF RHODE ISLAND

CLIENT

Gordon R. Archibald, Inc.
Civil and Environmental Engineers
Pawtucket, Rhode Island

DRAWING TITLE

PLANTING PLAN

NO.	DATE	REVISIONS	BY

PROJECT NO.: 1456

DATE: JULY 15, 2014

SCALE: 1" = 40'

DRAWN BY: NH, TR

CHECKED BY: JNA

DRAWING NUMBER

13

SHEET 13 of 14

PLANTING LEGEND

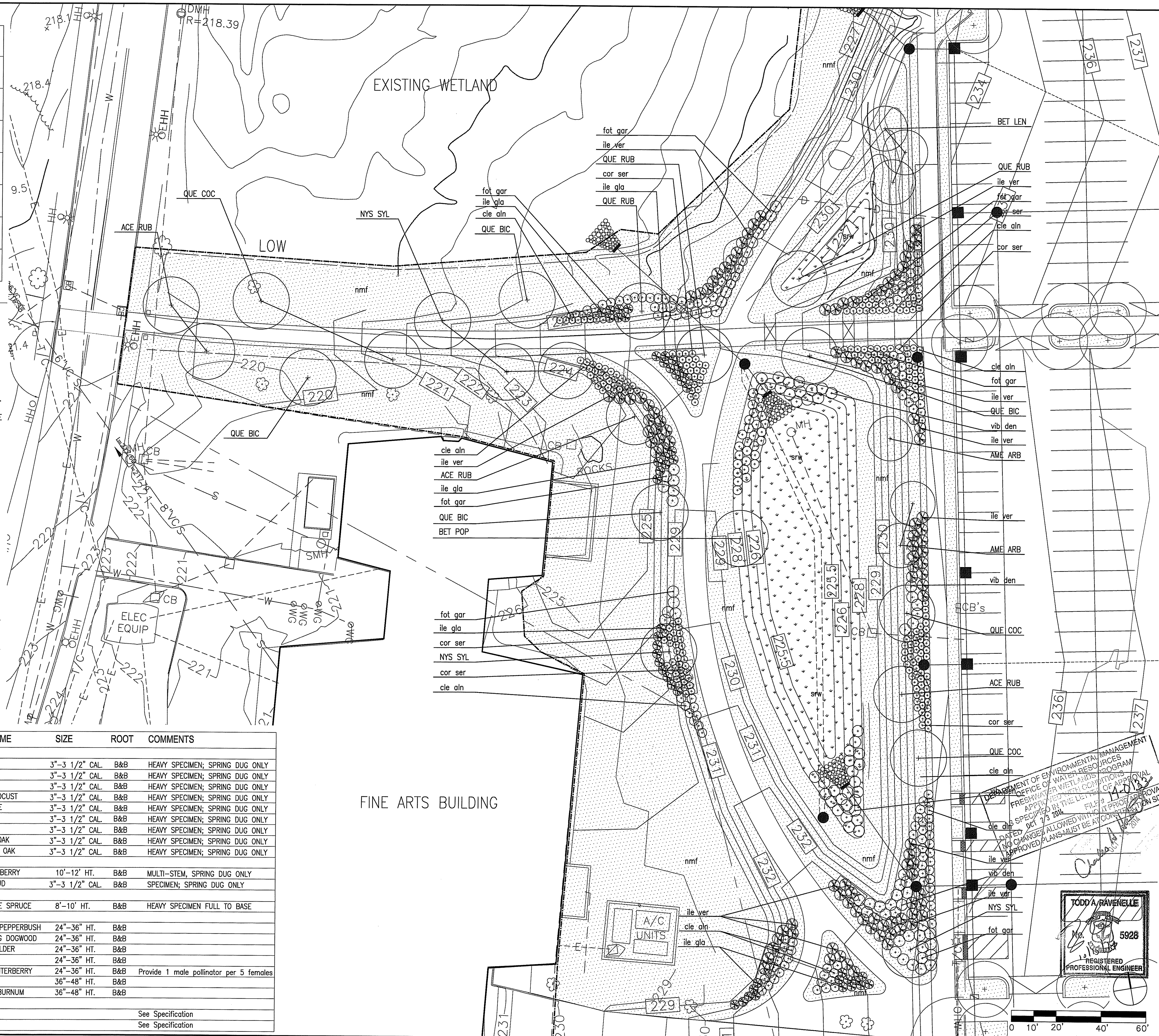
SYMBOL	TYPE	DETAIL
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	ORNAMENTAL/FLOWERING TREE	
	EVERGREEN TREE	
	EVERGREEN SHRUB PLANTINGS	
	DECIDUOUS SHRUB PLANTINGS	
	NO MOW FESCUE	
	RAIN GARDEN SEED MIX	

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PLANTING SCHEDULE

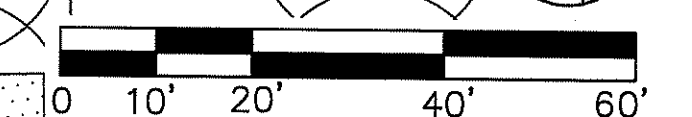
SYM	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	COMMENTS
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ACE RUB		<i>Acer rubrum</i> 'October Glory'	RED MAPLE	3"-3 1/2" CAL.	B&B	HEAVY SPECIMEN; SPRING DUG ONLY
BET LEN		<i>Betula lenta</i>	SWEET BIRCH	3"-3 1/2" CAL.	B&B	HEAVY SPECIMEN; SPRING DUG ONLY
BET POP		<i>Betula populifolia</i>	GRAY BIRCH	3"-3 1/2" CAL.	B&B	HEAVY SPECIMEN; SPRING DUG ONLY
GLE TRI		<i>Gleditsia triacanthos</i> 'Halka'	HALKA HONEYLOCUST	3"-3 1/2" CAL.	B&B	HEAVY SPECIMEN; SPRING DUG ONLY
ACE FRE		<i>Acer x freemanii</i> 'Autumn Blaze'	FREEMAN MAPLE	3"-3 1/2" CAL.	B&B	HEAVY SPECIMEN; SPRING DUG ONLY
NIS SYL		<i>Nissa sylvatica</i>	BLACK GUM	3"-3 1/2" CAL.	B&B	HEAVY SPECIMEN; SPRING DUG ONLY
QUE COC		<i>Quercus coccinea</i>	SCARLET OAK	3"-3 1/2" CAL.	B&B	HEAVY SPECIMEN; SPRING DUG ONLY
QUE BIC		<i>Quercus bicolor</i>	SWAMP WHITE OAK	3"-3 1/2" CAL.	B&B	HEAVY SPECIMEN; SPRING DUG ONLY
QUE RUB		<i>Quercus rubra</i>	NORTHERN RED OAK	3"-3 1/2" CAL.	B&B	HEAVY SPECIMEN; SPRING DUG ONLY
FLOWERING TREES						
AME ARB		<i>Amelanchier arborea</i>	DOWNY SERVICEBERRY	10'-12' HT.	B&B	MULTI-STEM, SPRING DUG ONLY
CER CAN		<i>Cercis canadensis</i>	EASTERN REDBUD	3"-3 1/2" CAL.	B&B	SPECIMEN; SPRING DUG ONLY
EVERGREEN TREES						
PIC PUN		<i>Picea pungens</i>	COLORADO BLUE SPRUCE	8'-10' HT.	B&B	HEAVY SPECIMEN FULL TO BASE
SHRUBS						
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ile gla		<i>Ilex glabra</i> 'Shamrock'	INKBERRY	24"-36" HT.	B&B	
ile ver		<i>Ilex verticillata</i> 'Red Sprite'	RED SPRITE WINTERBERRY	24"-36" HT.	B&B	Provide 1 male pollinator per 5 females
ham vir		<i>Hamamelis virginiana</i>	WITCH HAZEL	36"-48" HT.	B&B	
vib den		<i>Viburnum dentatum</i> 'Little Joe'	ARROWWOOD VIBURNUM	36"-48" HT.	B&B	
BIORETENTION GRASSES						
nmf		Prairie Nursery No Mow Seed Mix				See Specification
srw		Ernst Seed Rain Garden Wildlife Mix - ERNMX-180				See Specification



FINE ARTS BUILDING

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPLICABLE WITH CONDITIONS OF APPROVAL
AS SPECIFIED IN THE LIST OF APPROVAL
DATED OCT 7/3 2014 FILE # 14-013
NO CHANGES ALLOWED WITHOUT PROPER APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

TODD A. RAVENELLE
No. 5928
REGISTERED PROFESSIONAL ENGINEER



PROJECT
FINE ARTS CENTER
URI CAMPUS
KINGSTON, RHODE ISLAND

CLIENT
UNIVERSITY OF RHODE ISLAND

DRAWING TITLE
PLANTING PLAN
ENLARGEMENT

REVISIONS

NO.	DATE	BY

PROJECT NO.: 1456
DATE: JULY 15, 2014
SCALE: 1"=20'
DRAWN BY: NH, TR
CHECKED BY: JNA
DRAWING NUMBER
14
SHEET 14 of 14

FOR PERMIT ONLY

Gordon R. Archibald, Inc.
Civil and Environmental Engineers
Pawtucket, Rhode Island