BROOKSIDE APARTMENTS

University of Rhode Island

KINGSTON, RHODE ISLAND

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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 MAR 2 9 2017 FILE # 16-0391
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION 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
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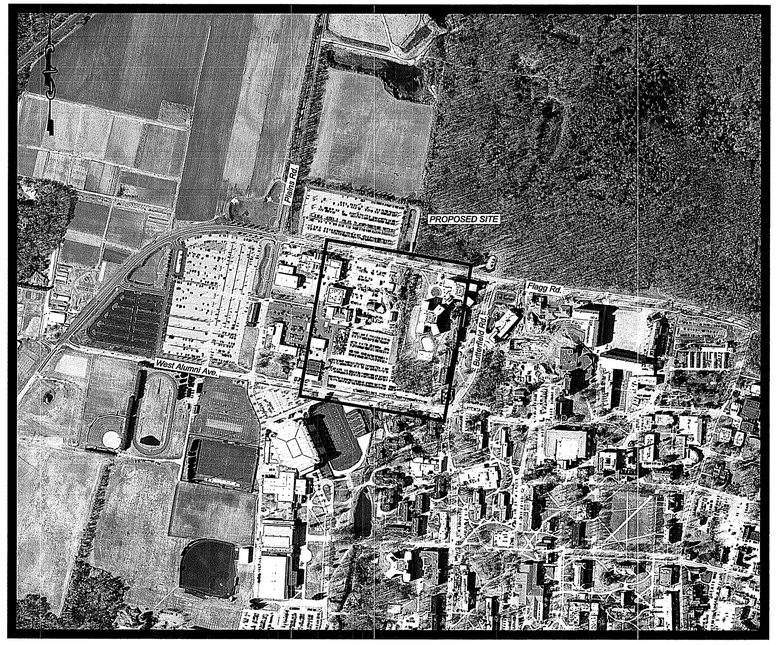
LAND SURVEYOR:

WELCH
Associates Land Surveyors, Inc.
218 North Main Street
West Bridgewater, MA 02379
(508) 580-4696 FAX. (508) 580-4962
WWW.WELCHINC.COM

DiPrete Engineering
Two Stafford Court Cranston, RI 02920
tel 401-943-1000 fax 401-464-6006 www.diprete-eng.com
Boston • Providence • Newport

LANDSCAPE ARCHITECT:

SASAKI
64 PLEASANT STREET WATERTOWN MA 02472 USA
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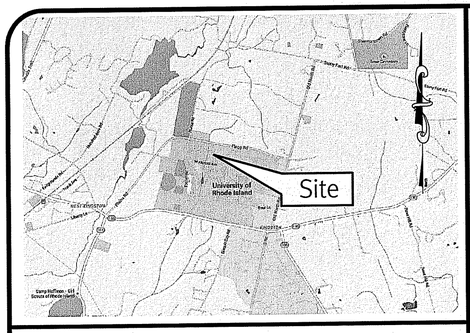


SCALE: N.T.S.

RIDEM PERMIT SUBMISSION
NOVEMBER 18, 2016
REVISED FEBRUARY 17, 2017

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Site
University of Rhode Island
Flagg Rd
Kingstown Rd
Upper College Rd
Lower College Rd
Plains Rd
Ranger Rd
Tootell Rd
Fire Tower Rd
Keaney Rd
Ellery Rd
Stadium Rd
Ranger Rd
Upper College Rd
Lower College Rd
Tootell Rd
Keaney Rd
Ellery Rd
Stadium Rd
Fire Tower Rd
Flagg Rd
Kingstown Rd
Plains Rd
Ranger

See Sheet 1

DiPrete Engineering
Two Stafford Court Cranston, RI 02920
tel 401-943-0000 fax 401-464-6666 www.diprete-eng.com
Boston • Providence • Newport

Topographic Survey
White Horn Apartments

South Kingstown, Rhode Island

Client
Sasaki Associates
64 Pleasant Street
Watertown, MA 02472

SHEET 2 OF 2

No.	Date	Description	By:
0	6-09-16	Topographic Survey	MTI

Drawn By: MTI

DE Job No: 2400-001 Copyright 2016 by DiPrete Engineering Associates, Inc.

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 — MEASUREMENT SPECIFICATION

DATA ACCUMULATION SURVEY — CLASS T-3

THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS: TOPOGRAPHIC SURVEY AT THE REQUEST OF THE CLIENT.

ROBERT G. BABCOCK
No. 2504
PROFESSIONAL LAND SURVEYOR

7/8/16
ROBERT G. BABCOCK, RIPLS #2504, COA #LS.000A160

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
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Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

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

REFERENCE

1. PROJECT LOCATION: UNIVERSITY OF RHODE ISLAND, KINGSTON RI 02881
2. EXISTING CONDITIONS INFORMATION TAKEN FROM PLAN ENTITLED "TOPOGRAPHIC SURFACE, WHITE HORN APARTMENT, UNIVERSITY OF RHODE ISLAND," PREPARED BY WELCH ASSOCIATES LAND SURVEYORS, INC. DATED APRIL 20, 2016.
3. EXISTING UTILITY INFORMATION TAKEN FROM PLAN ENTITLED, "TOPOGRAPHIC SURVEY, WHITE HORN APARTMENT," PREPARED BY DIPRETE ENGINEERING DATED JUNE 26, 2016.
4. FLOOD STUDY INFORMATION TAKEN FROM FLOOD PLAN ENTITLED "FLOOD STUDY MAP," PREPARED BY GORDON R. ARCHIBALD, INC. DATED OCTOBER 2016.
5. WETLANDS AND RESOURCE AREAS WERE DELINEATED BY PARE CORPORATION ON DECEMBER 28, 2015. WETLAND FLAGS WERE LOCATED BY WELCH ASSOCIATES LAND SURVEYORS, INC.

GENERAL NOTES

1. PER AVAILABLE RIDEM MAPPING, THE PROJECT SITE IS LOCATED OUTSIDE OF A NATURAL HERITAGE AREA.
2. 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.
3. 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.
4. 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 AND THE TOWN OF SOUTH KINGSTON REQUIREMENTS.
5. 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.
6. ANY AREA OUTSIDE OF THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO THE OWNER.
7. 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 AND THE ENGINEER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK WHICH WOULD BE AFFECTED.
8. 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 401-874-7896 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.
9. NO EXCAVATION SHALL BE DONE UNTIL UTILITIES 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.
10. ALL ROADWAY WORK SHALL CONFORM TO THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION (RIDOT) REQUIREMENTS AND RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2004 EDITION OR LATEST REVISION.

LAYOUT NOTES

1. ALL LINES ARE PERPENDICULAR OR PARALLEL TO THE LINES FROM WHICH THEY ARE MEASURED, UNLESS OTHERWISE INDICATED.
2. ACCESSIBLE RAMPS SHALL BE PER THE AMERICANS WITH DISABILITIES ACT (ADA) ACCESSIBILITY GUIDELINES.
3. CONTRACTOR TO PERFORM BENCHMARK FIELD LEVEL VERIFICATION AND COORDINATE LAYOUT CHECK PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CONTACT PARE CORPORATION IF ANY DISCREPANCIES ARE FOUND.
4. 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.
5. THE PROPOSED WALKWAYS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2.0% AND A MAXIMUM RUNNING SLOPE OF 5.0% AS SHOWN ON THE CONSTRUCTION DETAILS AND GRADING PLAN.

DEMOLITION NOTES

1. THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION OF STRUCTURES, PAVEMENT AND CONCRETE MATERIALS, AND UTILITIES WITH APPROPRIATE PROPOSED SITE GENERAL, GRADING, DRAINAGE, UTILITY, AND LANDSCAPING DRAWINGS.
2. ALL NOTED UTILITIES TO BE REMOVED AND DISPOSED OF, 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.
3. WATER, SEWER, DRAINAGE, GAS, AND OTHER SITE UTILITIES SERVICING THE EXISTING FACILITIES ARE TO REMAIN ACTIVE THROUGHOUT CONSTRUCTION.
4. THERE SHALL BE NO INTERRUPTION OF UTILITY SERVICE DURING THE CONSTRUCTION OPERATION WITHOUT APPROVAL OF THE OWNER.

GRADING AND UTILITY NOTES

1. 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.
2. ALL WORK PERFORMED AND ALL MATERIALS FURNISHED SHALL CONFORM WITH THE LINES AND GRADES ON THE PLANS AND THE SITE WORK SPECIFICATIONS.
3. 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.
4. 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.
5. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION OF PRIVATE UTILITIES BY THE UTILITY COMPANIES, AS REQUIRED.
6. 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.
7. 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.
8. GAS, ELECTRIC, AND COMMUNICATIONS ROUTING ARE SUBJECT TO REVIEW AND APPROVAL BY APPROPRIATE UTILITY COMPANIES AND DAVID LAMB, URI UTILITIES ENGINEER.
9. DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES BY PROVIDING TEMPORARY SUPPORTS OR SHEETING AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
10. ALL GRAVITY SANITARY PIPING SHALL BE SDR-35 PVC.
11. 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.
12. 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.
13. PITCH EVENLY BETWEEN SPOT GRADES. ALL PAVED AREAS MUST PITCH TO DRAIN AT A MIN. OF 1/8" PER FOOT UNLESS OTHERWISE SPECIFIED.
15. THE PROPOSED WALKWAYS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2.0% AND A MAXIMUM RUNNING SLOPE OF 5.0% AS SHOWN ON CONSTRUCTION DETAILS AND GRADING PLAN.
16. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL ROCK AND BOULDERS UNCOVERED DURING UTILITY INSTALLATION. REFER TO EARTHWORK SPECIFICATION.
17. 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

1. 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.
2. 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.
3. 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

1. 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, AT THE COST OF THE OWNER.
2. THE PARKING LOT AND ENTRY DRIVE SHALL BE SWEPT BY THE OWNER AS EARLY AS POSSIBLE EVERY SPRING AND ONCE IN THE FALL TO REMOVE SEDIMENTS.
3. ALL CLEANING AND MAINTENANCE OF DRAINAGE SYSTEM BMP'S SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER.

EROSION AND SEDIMENTATION CONTROL NOTES

1. THE CONTRACTOR AND RELEVANT SUBCONTRACTORS SHALL READ AND UNDERSTAND THE RIPDES 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.
2. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE CONDITIONS ISSUED FOR THE PROJECT BY RIDEM AND BE RESPONSIBLE FOR CONFORMANCE WITH ALL PERMIT REQUIREMENTS AND CONSTRUCTION DOCUMENTS.
3. 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.
4. ANTI-TRACKING PADS (R.I. STD. DETAIL 9.9.0) SHALL BE PROVIDED AT ALL POINTS OF EGRESS OR INGRESS AND SHALL BE MAINTAINED TO LIMIT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADS.
5. EROSION CONTROL BARRIERS SHALL BE INSTALLED AS SHOWN ON THE EROSION CONTROL PLAN PRIOR TO COMMENCEMENT OF CONSTRUCTION OPERATIONS.
6. 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. IDENTIFIED DEFICIENCIES SHALL BE CORRECTED IMMEDIATELY.
7. DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS AS NECESSARY, OR AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
8. 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.
9. 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.
10. 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.
11. 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.
12. THE CONTRACTOR SHALL MAINTAIN A SUFFICIENT RESERVE OF VARIOUS EROSION CONTROL MATERIALS ONSITE AT ALL TIMES FOR EMERGENCY PURPOSES OR ROUTINE MAINTENANCE.
13. DEWATERING WASTE WATERS PUMPED FROM EXCAVATIONS WILL BE CONVEYED BY HOSE TO AN UPLAND AREA AND DISCHARGED INTO HAYBALE CORRALS OR SEDIMENTATION BAGS. THE CONTRACTOR IS RESPONSIBLE FOR ALL ENGINEERING, EQUIPMENT, MATERIAL, AND LABOR REQUIRED FOR SITE WATER REMOVAL DURING CONSTRUCTION.
14. THE CONTRACTOR SHALL NOT REMOVE ANY HAYBALES, COMPOST FILTER SOCKS, OR OTHER EROSION CONTROLS UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED.
15. CONSTRUCTION SITE WASTE MATERIALS WILL BE PROPERLY CONTAINED ONSITE AND DISPOSED OFF SITE AT A LOCATION IN ACCORDANCE WITH THE LOCAL AND STATE REGULATIONS.
16. RIP-RAP OR OTHER ENERGY DISSIPATERS WILL BE USED WHERE NECESSARY TO PREVENT SCOUR.
17. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 14 DAYS UPON COMPLETION OF WORK IN THAT AREA.
18. ALL DRAINAGE STRUCTURES SHALL BE CLEARED OF ACCUMULATED SEDIMENT PRIOR TO ACCEPTANCE OF FINAL PROJECT.
19. NEWLY VEGETATED AREAS SHALL BE MAINTAINED REGULARLY TO ENSURE STABLE VEGETATED SURFACES.
20. 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.
21. WHERE EROSION CONTROLS ARE NEEDED ON IMPERVIOUS SURFACES, THE CONTRACTOR SHALL PROVIDE SAND BAG EROSION CONTROL BARRIER.
22. TEMPORARY DIVERSION (TD) MAY CONSIST OF A DITCH OR SWALE, OR MAY BE ACHIEVED USING WOOD CHIPS, COIR LOGS, OR SIMILAR MATERIALS.
23. 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 MANUAL.
24. 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 PROPERTY OWNER.

1. THE BIORETENTION AREA SHALL BE INSPECTED AFTER EVERY STORM OF 2.8 INCH OR GREATER FOR TRASH, DEBRIS, SEDIMENT, EROSION, STANDING WATER, AND OVERALL PERFORMANCE. DEFECTS SHALL BE REPAIRED BY THE OWNER.
2. THE BIORETENTION AREA SHALL BE INSPECTED FOLLOWING THE FIRST 6 MONTHS AFTER CONSTRUCTION FOLLOWING THE FIRST TWO STORM EVENTS OF 1" OR MORE.
3. 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.
4. THE OWNER SHALL RE-MULCH BIORETENTION AREAS IN THE SPRING EACH YEAR.
5. IN SPRING, THE OWNER SHALL TRIM VEGETATION AND REMOVE DEAD VEGETATION FROM THE BIORETENTION AREA.
6. REMOVE ACCUMULATED SEDIMENT FROM THE BIORETENTION CELLS TWICE ANNUALLY, ONCE IN THE LATE SPRING AND ONCE IN THE EARLY FALL, OR IF SEDIMENT EXCEEDS 1" IN THE BIORETENTION AREA CELLS.
7. IF PONDING EXCEEDS 48 HOURS, REMOVE ALL DISCOLORED MATERIAL AND RE-MULCH FILTER SURFACE.
8. TRASH AND DEBRIS SHALL BE REMOVED FROM THE BIORETENTION AREA AS NECESSARY.

TREE BOX FILTER INSPECTION, MAINTENANCE, AND REPAIR NOTES

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

1. THE TREE FILTER SHALL BE INSPECTED AFTER EVERY MAJOR STORM OF 2.8 INCH OR GREATER FOR TRASH, DEBRIS, SEDIMENT, EROSION, STANDING WATER, AND OVERALL PERFORMANCE. DEFECTS SHALL BE REPAIRED BY THE OWNER.
2. OWNER SHALL RE-MULCH TREE BOX FILTERS IN SPRING EVERY YEAR.
3. REMOVE ACCUMULATED SEDIMENT FROM THE FILTER AREA ANNUALLY IN THE SPRING OR IF SEDIMENT EXCEEDS 1 INCH IN THE FILTER AREA. REMOVE ACCUMULATED SEDIMENT FROM THE SEDIMENT FOREBAY QUARTERLY OR IF SEDIMENT REACHES HALF THE DESIGN DEPTH OR MORE.
4. THE TREE BOX FILTERS SHALL BE INSPECTED FOLLOWING THE FIRST 6 MONTHS AFTER CONSTRUCTION FOLLOWING THE FIRST TWO STORM EVENTS OF 1 INCH OR MORE.
5. IF PONDING EXCEEDS 48 HOURS, REMOVE AND REPLACE DISCOLORED SURFACE MATERIAL.
6. IF RUNOFF TAKES MORE THAN 36 HOURS TO FLOW FROM THE SEDIMENT FOREBAY TO THE TREE BOX FILTERS, THE SPILLWAY SHALL BE CLEANED.

PERMEABLE PAVEMENT INSPECTION, MAINTENANCE, AND REPAIR NOTES

1. THE PERMEABLE PAVEMENT SURFACES SHALL BE VACUUM SWEPT OR HOSED A MINIMUM OF FOUR TIMES ANNUALLY.
2. MINIMIZE THE USE OF SAND AND SALT ON THE PERMEABLE PAVEMENT IN THE WINTER MONTHS.
3. THE PERMEABLE PAVEMENT SHALL NOT BE REPAIRED OR RESEALED WITH IMPERMEABLE MATERIALS.

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 PROPERTY OWNER.

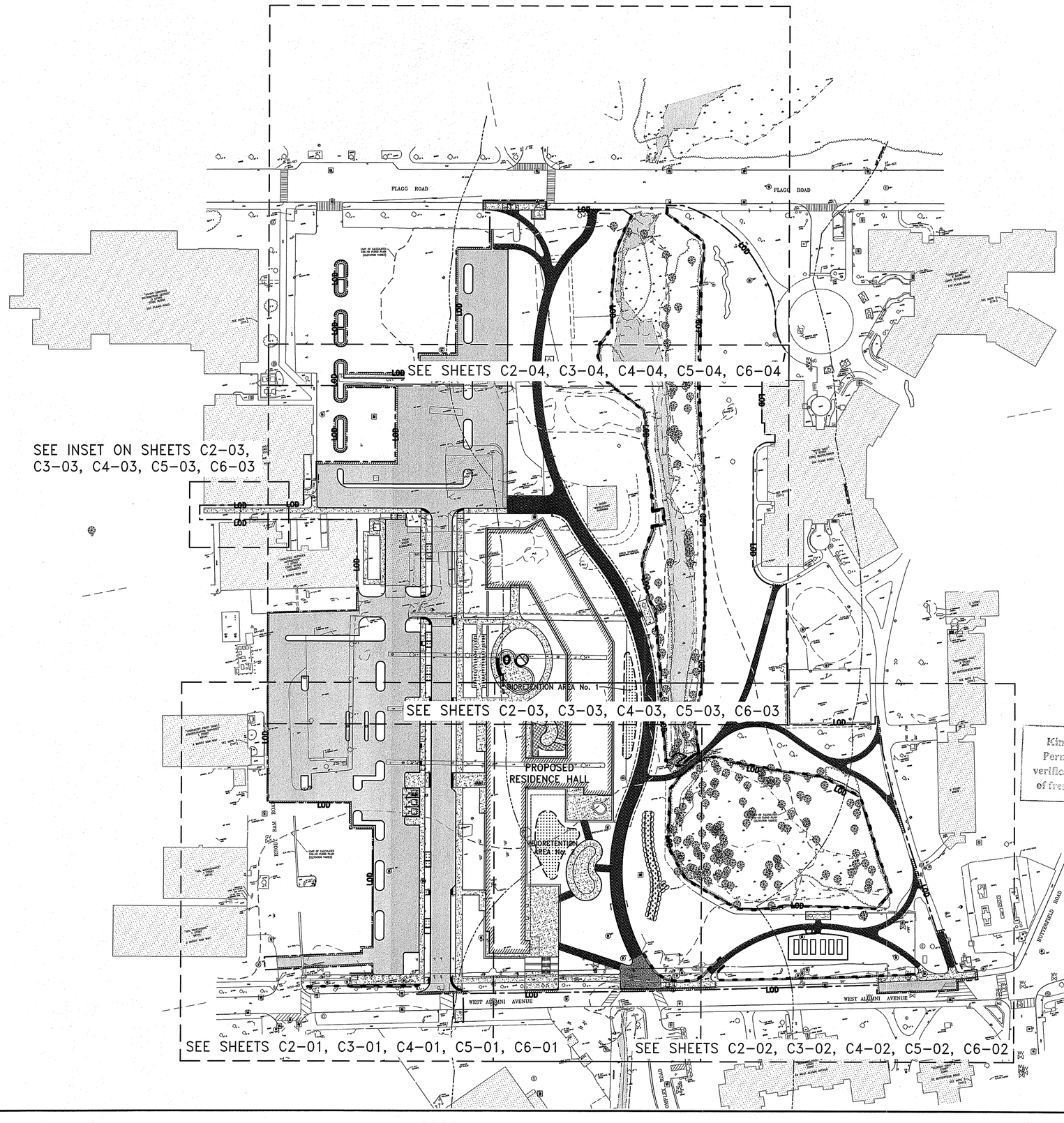
1. THE VEGETATED FILTER STRIP MUST BE INSPECTED QUARTERLY DURING THE FIRST YEAR OF OPERATION AND SEMIANNUALLY THEREAFTER FOR SEDIMENT, PONDING, EROSION, AND VEGETATION.
2. REMOVE ACCUMULATED SEDIMENT FROM THE VEGETATED FILTER STRIP ANNUALLY OR IF SEDIMENT EXCEEDS 1".
3. OWNER SHALL REPAIR ANY SLOPES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

LEGEND

EXISTING		PROPOSED
	PROPERTY LINE	
	SETBACKS	
	EASEMENT LINE	
255	CONTOUR	262
X 407.5	SPOT ELEVATION	×261.5
D D	DRAINAGE LINE	D D
W W	WATER LINE	W W
	FIRE WATER LINE	FW FW
S S	SANITARY SEWER LINE	S S
G G	GAS LINE	G G
E E	ELECTRIC	E E
T T	TELEPHONE LINE	T T
OHW	OVERHEAD ELECTRIC LINE	OHW
ST ST	STEAM LINE	ST ST
	LIMIT OF DISTURBANCE	LOD
	CATCH BASIN	
	HYDRANT	
D	DRAINAGE MANHOLE	
S	SEWER MANHOLE	
	UTILITY POLE	
WV WV	WATER VALVE	
GG	GAS GATE	
	LIGHT POLE	
	TREE LINE	
	STONE WALL	
	CHAIN LINK FENCE	
	CURBING	
	EDGE OF PAVEMENT	
	SAWCUT LINE	
	SIGN	
	COMPOST FILTER SOCK	
	NO. OF PARKING SPACES	
WF A52 WF A51	WETLAND EDGE	
	50' PERIMETER WETLAND	
	200' RIVERBANK	
	100-YR FLOODPLAIN	

ATG	= ADJUST TO GRADE
BB	= BITUMINOUS BERM
BC	= BITUMINOUS CONCRETE PAVEMENT (SEE DETAIL)
BCW	= BITUMINOUS CONCRETE WALKWAY
BOL	= BOLLARD
CFS	= COMPOST FILTER SOCK (SEE DETAIL)
CG	= CLEAR AND GRUB TREES AND VEGETATION
CLF	= CHAIN LINK FENCE
CM	= SAWCUT AND MATCH
CP	= CONCRETE PAD
CTE	= CONNECT TO EXISTING
CW	= CROSS WALK (SEE DETAIL)
DAC	= REMOVE & DISPOSE ASPHALT CURB
DB	= REMOVE & DISPOSE BOLLARD
DBLDG	= REMOVE & DISPOSE BUILDING
DBW	= REMOVE + DISPOSE BITUMINOUS WALK
DC	= REMOVE & DISPOSE CURB
DCP	= REMOVE & DISPOSE CONCRETE PAD
DCW	= REMOVE & DISPOSE CONCRETE WALK
DD	= REMOVE & DISPOSE DRAINAGE
DE	= REMOVE & DISPOSE ELECTRIC
DFP	= REMOVE & DISPOSE FLEXIBLE PAVEMENT
DG	= REMOVE & DISPOSE GUARDRAIL
DGU	= REMOVE & DISPOSE GAS UTILITY
DH	= REMOVE & DISPOSE HYDRANT
DLP	= REMOVE & DISPOSE LIGHT POLE
DRW	= REMOVE & DISPOSE RETAINING WALL
DS	= REMOVE & DISPOSE SIGN
DSWR	= REMOVE & DISPOSE SEWER
DUP	= REMOVE + DISPOSE UTILITY POLE
DW	= REMOVE & DISPOSE WATER
ETR	= EXISTING TO REMAIN. PROTECT DURING CONSTRUCTION.
GV	= GATE VALVE
HCPS	= HANDICAP ACCESSIBLE PARKING SIGN WITH BOLLARD
HDBC	= HEAVY DUTY BITUMINOUS CONCRETE (SEE DETAIL)
HYD	= HYDRANT
PBC	= PERMEABLE BITUMINOUS CONCRETE PAVEMENT (SEE DETAIL)
PCFES	= PRECAST CONCRETE FLARED END SECTION
PM	= PAVEMENT MARKING
RA	= RAILING
RLS	= RIPRAP LEVEL SPREADER
RPM	= REMOVE PAVEMENT MARKINGS
RR	= RIPRAP EDGE
RS	= RIPRAP SPILLWAY
RSSC	= REMOVE AND STOCKPILE CONTAINER
RTAD	= REFER TO ARCHITECTURAL DRAWINGS
RTED	= REFER TO ELECTRICAL DRAWINGS
RTLD	= REFER TO LANDSCAPE DRAWINGS
RTMD	= REFER TO MECHANICAL DRAWINGS
R&D	= REMOVE AND DISPOSE
R&R	= REMOVE AND RESET
SB	= SAND BAG EROSION CONTROL BARRIER (SEE DETAIL)
SFCD	= SEDIMENT FOREBAY CHECK DAM
SHP	= HANDICAP PARKING PAVEMENT MARKING (SEE DETAIL)
SM	= SEDIMENT MARKER
TDS	= TEMPORARY DIVERSION SWALE
TGP	= TREE GROUP PROTECTION DETAIL
TIP	= TEMPORARY INLET PROTECTION
TRM	= TURF REINFORCEMENT MAT
TST	= TEMPORARY SEDIMENT TRAP
VCP	= VEHICULAR CONCRETE PAVEMENT
VFS	= VEGETATED FILTER STRIP
YL	= YIELD LINE PAVEMENT MARKING (SEE DETAIL)
4DY	= 4" DOUBLE YELLOW EPOXY RESIN PAVEMENT MARKING
4W	= 4" SOLID WHITE EPOXY RESIN PAVEMENT MARKING
12W	= 12" SOLID WHITE EPOXY RESIN PAVEMENT MARKING
2.1.0	= CONCRETE HEADWALLS FOR PIPE CULVERTS – R.I. STD. 2.1.0
2.3.0	= PRECAST CONCRETE FLARED END SECTION – R.I. STD. 2.3.0
4.2.0	= PRECAST 4'-0" ROUND MANHOLE – R.I. STD. 4.2.0
4.2.2	= PRECAST 6'-0" ROUND MANHOLE – R.I. STD. 4.2.2
4.4.0M	= PRECAST 4'-0",5'-0", OR 6'-0" ROUND CATCH BASIN – R.I. STD. 4.4.0M
6.2.1	= HEAVY-DUTY ROUND FRAME AND COVER – R.I. STD. 6.2.1
6.3.2	= SQUARE FRAME AND GRATE (BICYCLE SAFE) – R.I. STD. 6.3.2
7.1.0	= PRECAST CONCRETE CURB – R.I. STD. 7.1.0
7.1.2	= 6'-0" PRECAST CONCRETE TRANSITION CURB – R.I. STD. 7.1.2
7.1.9	= PRECAST CONCRETE RAMP STONE – R.I. STD. 7.1.9
7.2.0	= PRECAST CONCRETE SLOPED FACE CURB – R.I. STD. 7.2.0
7.2.1	= PRECAST CONCRETE SLOPED FACE TRANSITION CURB – R.I. STD. 7.2.1
7.2.2	= PRECAST CONCRETE TRANSITION CURB (VERTICAL FACE TO SLOPED FACE) – R.I. STD. 7.2.2
7.2.4	= PRECAST CONCRETE CAR STOPS
7.3.0	= GRANITE CURB
7.3.1	= 3'-0" GRANITE TRANSITION CURB
7.3.2	= 6'-0" GRANITE TRANSITION CURB
7.4.0	= GRANITE SLOPED FACE CURB
7.4.2	= GRANITE TRANSITION CURB (VERTICAL FACE TO SLOPED FACE)
7.5.1	= BITUMINOUS BERM – R.I. STD. 7.5.1
9.9.0	= CONSTRUCTION ACCESS – R.I. STD. 9.9.0
24.2.0	= SIGN POST SELECTION AND INSTALLATION DETAILS U-CHANNEL POST – R.I. STD. 24.2.0
24.6.0	= PARKING SIGN MOUNTING DETAIL – R.I. STD. 24.6.0
34.2.0	= STEEL BEAM GUARDRAIL – R.I. STD. 34.2.0
34.3.2	= TERMINAL END SECTION (SINGLE FACE) – R.I. STD. 34.3.2

ASSF	= AREA SUBJECT TO STORM FLOWAGE
BIT.	= BITUMINOUS
BM	= BENCHMARK
BMP	= BEST MANAGEMENT PRACTICE
BS	= BOTTOM OF STAIR
BW	= BOTTOM OF WALL
CB	= 4' DIA. CATCH BASIN UNLESS OTHERWISE NOTED
CC	= VERTICAL CONCRETE CURB
CI	= CAST IRON
CL.	= CLASS
CLDI	= CEMENT-LINED DUCTILE IRON
CO	= CLEANOUT
CONC.	= CONCRETE
DEMO	= DEMO



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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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DATED MAR 29 2017 FILE # 16-0291
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
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Scale: 1"=60'
0 30' 60' 120'

FEB 22 2017

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

BROOKSIDE APARTMENTS
UNIVERSITY OF RHODE ISLAND

Assessor's Plat 154, Lot 7
West Alumni Avenue
Kingston, RI

DAVID L. POTTER
No. 8665
2.17.17
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:

1	2-17-17	RIDEM COMMENTS

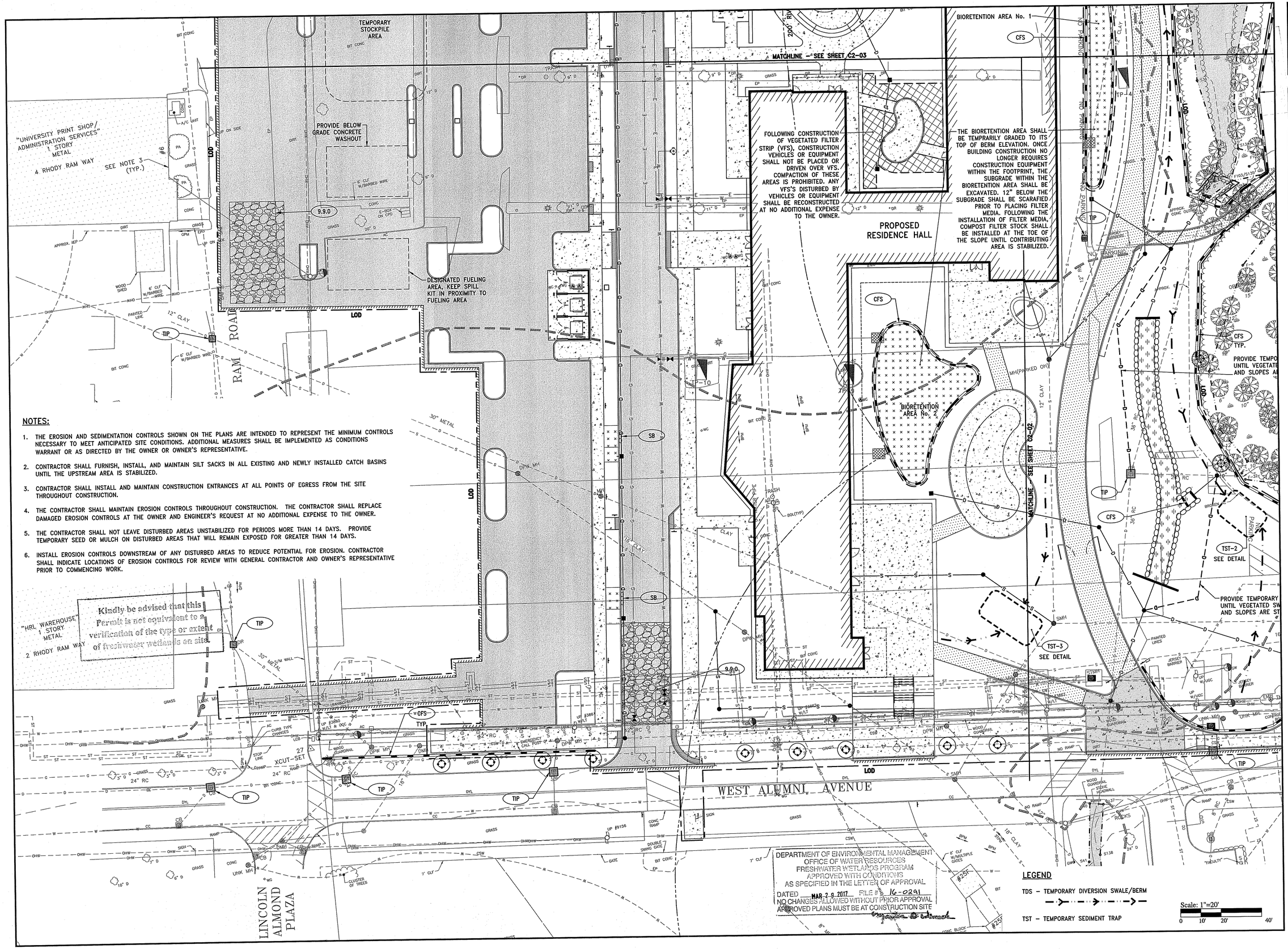
PROJECT NO.:	15180.01
DATE:	NOVEMBER 18, 2016
SCALE:	1"=20'
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:

OVERALL PLAN

DRAWING NO.: C1.02

SHEET NO. 4 OF 42



NOTES:

1. 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.
2. CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN SILT SACKS IN ALL EXISTING AND NEWLY INSTALLED CATCH BASINS UNTIL THE UPSTREAM AREA IS STABILIZED.
3. CONTRACTOR SHALL INSTALL AND MAINTAIN CONSTRUCTION ENTRANCES AT ALL POINTS OF EGRESS FROM THE SITE THROUGHOUT CONSTRUCTION.
4. 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.
5. 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.
6. 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.

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DAVID L. POTTER
No. 8665
2.17.17
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REVISIONS:

1	2-17-17	RIDEM COMMENTS

PROJECT NO.:	15180.01
DATE:	NOVEMBER 18, 2016
SCALE:	1"=20'
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:

EROSION & SEDIMENT CONTROL PLAN 1

DRAWING NO.: C2-01

SHEET NO. 5 OF 42

CONTROL OF WATER NOTES:

1. THE WATER CONTROL SYSTEM SHALL BE DESIGNED TO ACCOMMODATE THE 1-YEAR FLOOD WITH A MINIMUM 1 FOOT OF FREEBOARD AT COFFERDAMS:
   Q1 = 63 CFS
   1-YEAR FLOOD EL.=114.57 AT HEADWALL
2. ALLOWABLE METHODS FOR CONTROL OF WATER ARE BY BLOCKING FLOW THROUGH ALL OR A PORTION OF THE CHANNEL USING SANDBAG COFFERDAMS AND DIVERTING FLOW VIA PIPE, SIPHON, PUMPING, OR THE REMAINING (UNBLOCKED) CHANNEL AREA. COFFERDAM BLOCKING ENTIRE CHANNEL AND BYPASS PIPING OPTION SHOWN.
3. TREATMENT OF BYPASS WATER NOT REQUIRED UNLESS DISCHARGE IS MORE TURBID THAN INFLOW.
4. CONTROL OF WATER SHALL BE IN ACCORDANCE WITH THE RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (RIDEM) WETLANDS PERMIT AND ANY OTHER ENVIRONMENTAL APPROVALS ISSUED FOR THE WORK.
5. SHOULD THE CONTRACTOR ELECT TO PROPOSE MEANS AND METHODS FOR CONTROL OF WATER NOT ALLOWED BY THE PERMIT(S) THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR OBTAINING APPROVAL FROM RIDEM AND/OR OTHER AGENCIES FOR SUCH CHANGES.
6. CONSTRUCTION DEWATERING EFFLUENT SHALL BE TREATED PRIOR TO DISCHARGE.
7. UPON FINAL REMOVAL OF THE WATER DIVERSION SYSTEM, THE CONTRACTOR SHALL RESTORE ALL TEMPORARILY DISTURBED RIVERBED CONTOURS TO PRECONSTRUCTION ELEVATIONS.
8. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL A COMPLETE PLAN AND DESCRIPTION OF THE METHODS INTENDED TO BE USED FOR CONTROL OF WATER. CONTRACTOR'S PROPOSED METHODS SHALL NOT EXTEND BEYOND LIMITS OF DISTURBANCE SHOWN ON THE PLANS. THE PROPOSED PLAN SHALL BE STAMPED BY A RHODE ISLAND REGISTERED PROFESSIONAL ENGINEER.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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NOTES:

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5. 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.
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LEGEND

TDS – TEMPORARY DIVERSION SWALE/BERM

TST – TEMPORARY SEDIMENT TRAP

Scale: 1"=20'
0 10' 20' 40'

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

OWNER/APPLICANT:

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60 TOOTELL ROAD
KINGSTON, RHODE ISLAND
TEL: 401-874-2725

BROOKSIDE APARTMENTS
UNIVERSITY OF RHODE ISLAND

Assessor's Plat 154, Lot 7
West Alumni Avenue
Kingston, RI

DAVID L. POTTER
No. 8665
2.17.17
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:		
1	2-17-17	RIDEM COMMENTS

PROJECT NO.:	15180.01
DATE:	NOVEMBER 18, 2016
SCALE:	1"=20'
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:

EROSION & SEDIMENT CONTROL PLAN 2

DRAWING NO.: C2-02

SHEET NO. 6 OF 42

LEGEND

TDS – TEMPORARY DIVERSION SWALE/BERM

TST – TEMPORARY SEDIMENT TRAP

NOTES:

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MATCHLINE – SEE SHEET C2-04

MATCHLINE – SEE ABOVE

MATCHLINE – SEE SHEET C2-01

MATCHLINE – SEE SHEET C2-02

"WHITE HORN BROOK" RIVER FLOW

AREA SUBJECT TO STORM FLOWAGE

TST-5 SEE DETAIL

TST-6 SEE DETAIL

TST-4 SEE DETAIL

TP-2

TP-3

TP-4

CFS

CFS TYP.

TIP

ROCKS

SHRUB WETLAND

1 STORY WOOD/CONC GARAGES

2 STORY WOOD OPEN BARN

1 STORY WOOD (GARAGES)

OPEN STORAGE (MAINTENANCE EQUIPMENT)

PROPOSED RESIDENCE HALL

TEMPORARY STOCKPILE AREA

BIORETENTION AREA No. 1

200' RIVERBANK

SEE NOTE (TYP.)

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2.17.17

REVISIONS:

1	2-17-17	RIDEM COMMENTS

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DATE:	NOVEMBER 18, 2016
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DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:

EROSION & SEDIMENT CONTROL PLAN 3

DRAWING NO.: C2-03

SHEET NO. 7 OF 42

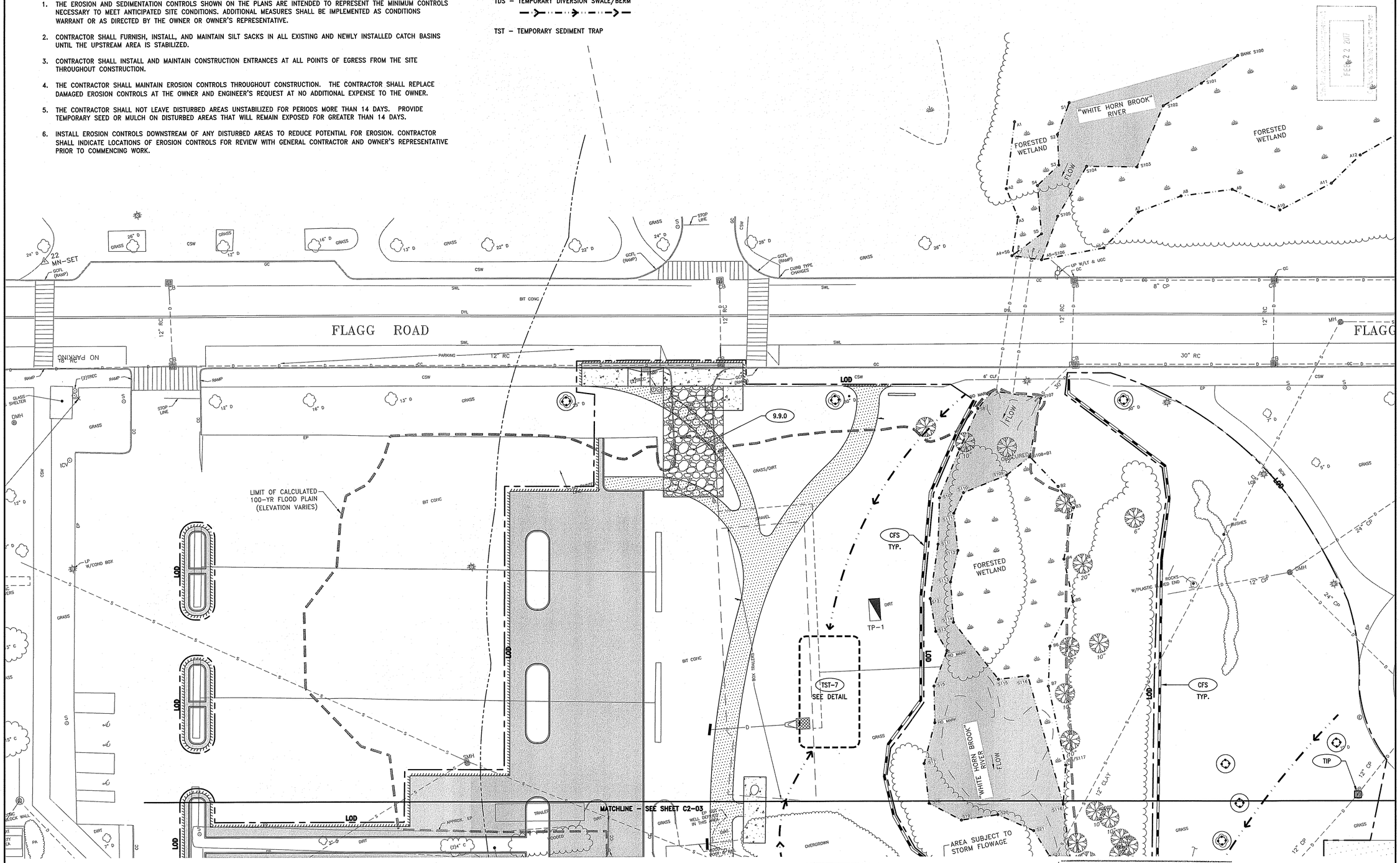
NOTES:

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LEGEND

TDS – TEMPORARY DIVERSION SWALE/BERM

TST – TEMPORARY SEDIMENT TRAP



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Scale: 1"=20'
0 10' 20' 40'

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BROOKSIDE APARTMENTS
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DAVID L. POTTER
No. 8665
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
2.17.17

REVISIONS:

1	2-17-17	RIDEM COMMENTS

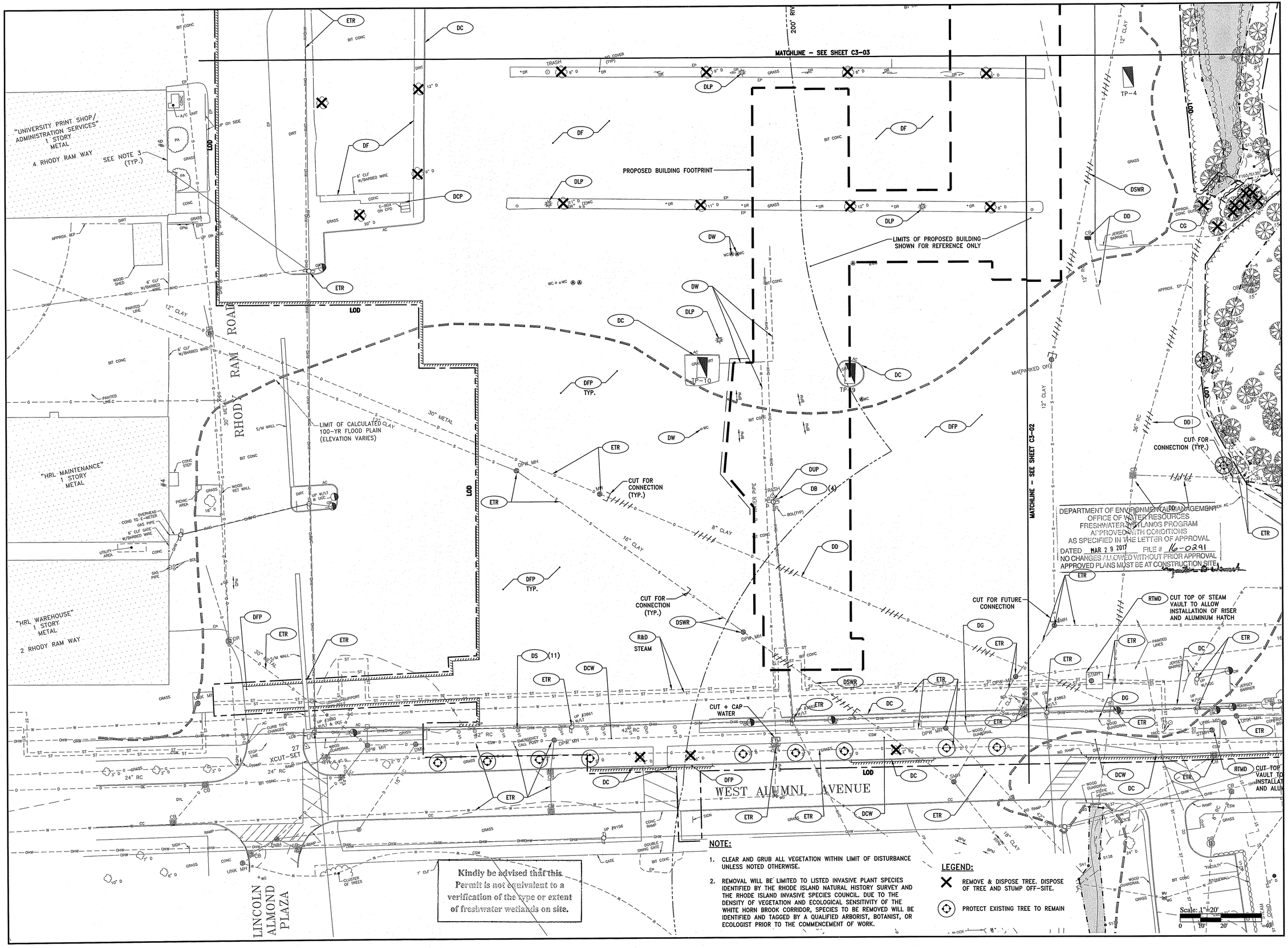
PROJECT NO.:	15180.01
DATE:	NOVEMBER 18, 2016
SCALE:	1"=20'
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:

EROSION & SEDIMENT CONTROL PLAN 4

DRAWING NO.: C2-04

SHEET NO. 8 OF 42



NOTE:

1. CLEAR AND GRUB ALL VEGETATION WITHIN LIMIT OF DISTURBANCE UNLESS NOTED OTHERWISE.
2. REMOVAL WILL BE LIMITED TO LISTED INVASIVE PLANT SPECIES IDENTIFIED BY THE RHODE ISLAND NATURAL HISTORY SURVEY AND THE RHODE ISLAND INVASIVE SPECIES COUNCIL. DUE TO THE DENSITY OF VEGETATION AND ECOLOGICAL SENSITIVITY OF THE WHITE HORN BROOK CORRIDOR, SPECIES TO BE REMOVED WILL BE IDENTIFIED AND TAGGED BY A QUALIFIED ARBORIST, BOTANIST, OR ECOLOGIST PRIOR TO THE COMMENCEMENT OF WORK.

LEGEND:

- REMOVE & DISPOSE TREE. DISPOSE OF TREE AND STUMP OFF-SITE.
- PROTECT EXISTING TREE TO REMAIN

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1	2-17-17	RIDEM COMMENTS

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DATE:	NOVEMBER 18, 2016
SCALE:	1"=20'
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:

DEMOLITION PLAN 1

DRAWING NO.: C3-01

SHEET NO. 9 OF 42

MATCHLINE – SEE SHEET C3-03

MATCHLINE – SEE SHEET C3-01

LIMITS OF PROPOSED BUILDING SHOWN FOR REFERENCE ONLY

FORESTED WETLAND

LIMIT OF CALCULATED 100-YR FLOOD PLAIN (ELEVATION VARIES)

CLEAR AND GRUB VEGETATION

LOD

CUT FOR CONNECTION (TYP.)

CUT FOR FUTURE CONNECTION

RTMD CUT TOP OF STEAM VAULT TO ALLOW INSTALLATION OF RISER AND ALUMINUM HATCH

CM TYP.

DFP TYP.

AREA SUBJECT TO STORM FLOWAGE

3 STORY BRICK

WEST ALUMNI AVENUE

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

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 2 9 2017 FILE # 16-0291
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NOTE:

1. CLEAR AND GRUB ALL VEGETATION WITHIN LIMIT OF DISTURBANCE UNLESS NOTED OTHERWISE.
2. REMOVAL WILL BE LIMITED TO LISTED INVASIVE PLANT SPECIES IDENTIFIED BY THE RHODE ISLAND NATURAL HISTORY SURVEY AND THE RHODE ISLAND INVASIVE SPECIES COUNCIL. DUE TO THE DENSITY OF VEGETATION AND ECOLOGICAL SENSITIVITY OF THE WHITE HORN BROOK CORRIDOR, SPECIES TO BE REMOVED WILL BE IDENTIFIED AND TAGGED BY A QUALIFIED ARBORIST, BOTANIST, OR ECOLOGIST PRIOR TO THE COMMENCEMENT OF WORK.

LEGEND:

- ✕ REMOVE & DISPOSE TREE. DISPOSE OF TREE AND STUMP OFF-SITE.
- ⊕ PROTECT EXISTING TREE TO REMAIN

Scale: 1"=20'
0 10' 20' 40'

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

N

BROOKSIDE APARTMENTS
UNIVERSITY OF RHODE ISLAND

Assessor's Plat 154, Lot 7
West Alumni Avenue
Kingston, RI

DAVID L. POTTER
No. 8665
2.17.17
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:		
1	2-17-17	RIDEM COMMENTS

PROJECT NO.:	15180.01
DATE:	NOVEMBER 18, 2016
SCALE:	1"=20'
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:

DEMOLITION PLAN 2

DRAWING NO.: C3-02

SHEET NO. 10 OF 42

MATCHLINE – SEE SHEET C3-04

MATCHLINE – SEE SHEET C3-01

PROTECT VEGETATION TO REMAIN

AREA SUBJECT TO STORM FLOWAGE

REFER TO PHASE II ESA FOR REQUIREMENTS TO ADDRESS SALT PLUME ASSOCIATED WITH THE BARN

CUT FOR CONNECTION (TYP.)

CUT AND CAP DRAIN

CUT + CAP

2 STORY WOOD OPEN BARN

1 STORY WOOD/CONC GARAGES

1 STORY WOOD (GARAGES)

"FACILITIES SERVICES AUTOMOTIVE" 1 STORY CONC BLOCK (GARAGES) 9 RHODY RAM WAY

R&S TRAILER

R&S TRAILERS

R&S DUMPSTER

R&D POST

LIMITS OF PROPOSED BUILDING SHOWN FOR REFERENCE ONLY

OPEN STORAGE (MAINTENANCE EQUIPMENT)

"WHITE HORN BROOK" RIVER FLOW

200' RIVERBANK

SHRUB WETLAND

TP-2

TP-3

TP-4

TP-7

TP-8

SEE NOTE (TYP.)

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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 MAR 29 2017 FILE # 16-0029
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NOTE:

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LEGEND:

- REMOVE & DISPOSE TREE. DISPOSE OF TREE AND STUMP OFF-SITE.
- PROTECT EXISTING TREE TO REMAIN

Scale: 1"=20'
0 10' 20' 40'

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

BROOKSIDE APARTMENTS
UNIVERSITY OF RHODE ISLAND

Assessor's Plat 15-4, Lot 7
West Alumni Avenue
Kingston, RI

DAVID L. POTTER
No. 8665
2.17.17
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:

1	2-17-17	RIDEM COMMENTS

PROJECT NO.:	15180.01
DATE:	NOVEMBER 18, 2016
SCALE:	1"=20'
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:

DEMOLITION PLAN 3

DRAWING NO.: C3-03

SHEET NO. 11 OF 42

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

FLAGG ROAD

"WHITE HORN BROOK" RIVER

FORESTED WETLAND

FLOW

LIMIT OF CALCULATED 100-YR FLOOD PLAIN (ELEVATION VARIES)

LOD

CM TYP.

DFP TYP.

R&S BOX TRAILERS

TP-1

R&S TRAILER

MATCHLINE - SEE SHEET C3-03

PROTECT VEGETATION TO REMAIN

AREA SUBJECT TO STORM FLOWAGE

NOTE:

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LEGEND:

- REMOVE & DISPOSE TREE. DISPOSE OF TREE AND STUMP OFF-SITE.
- PROTECT EXISTING TREE TO REMAIN

Scale: 1"=20'

0 10' 20' 40'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
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DATED MAR 2 9 2017 FILE # 16-0291
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE

FEB 22 2017

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Kingston, RI

DAVID L. POTTER
No. 8665
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
2.17.17

REVISIONS:		
1	2-17-17	RIDEM COMMENTS

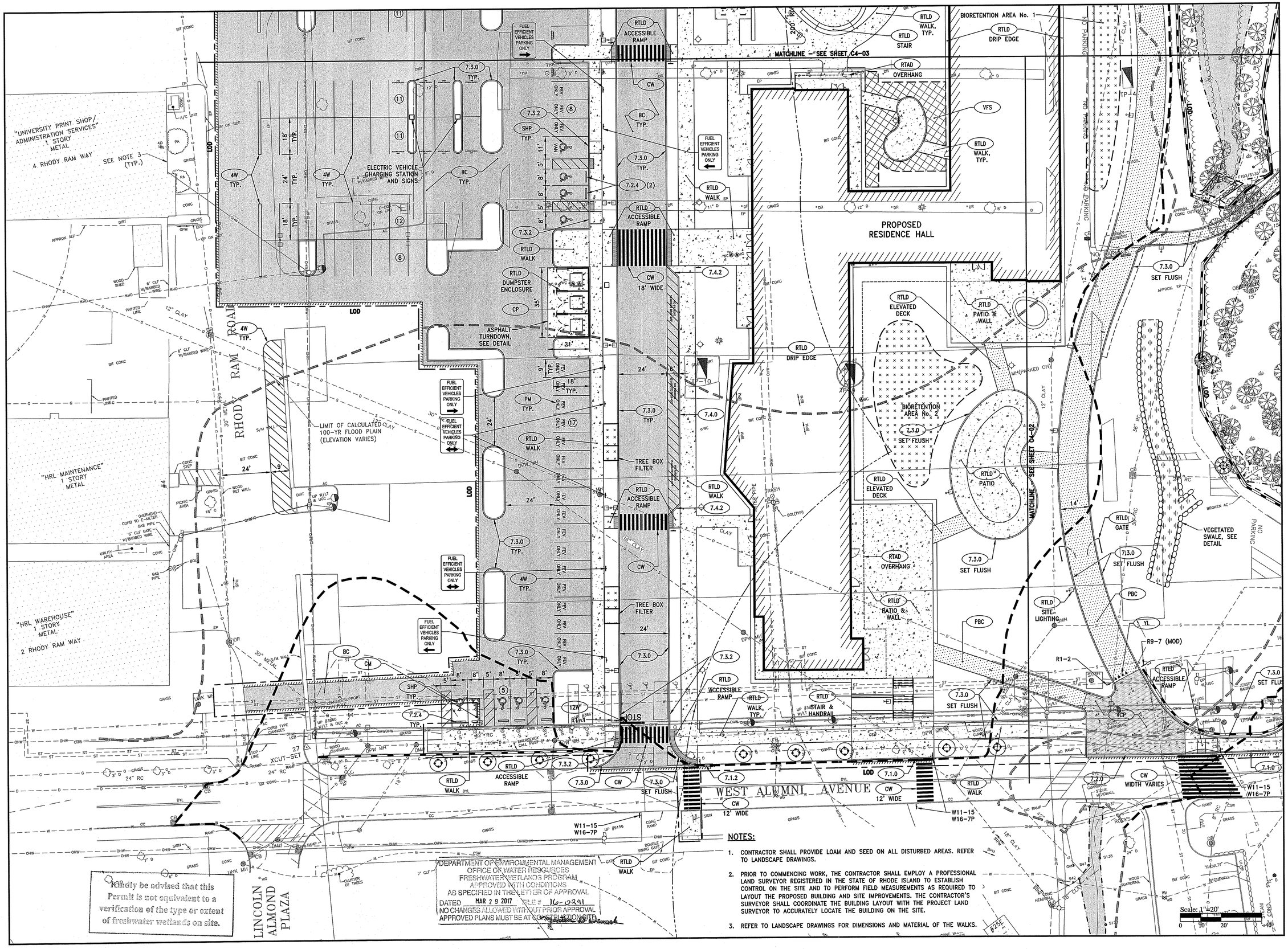
PROJECT NO.:	15180.01
DATE:	NOVEMBER 18, 2016
SCALE:	1"=20'
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:

DEMOLITION PLAN 4

DRAWING NO.: C3-04

SHEET NO. 12 OF 42



NOTES:

1. CONTRACTOR SHALL PROVIDE LOAM AND SEED ON ALL DISTURBED AREAS. REFER TO LANDSCAPE DRAWINGS.
2. 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.
3. REFER TO LANDSCAPE DRAWINGS FOR DIMENSIONS AND MATERIAL OF THE WALKS.

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BROOKSIDE APARTMENTS
UNIVERSITY OF RHODE ISLAND

Assessor's Plat 15-4, Lot 7
West Alumni Avenue
Kingston, RI

DAVID L. POTTER
No. 8665
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
2.17.17

REVISIONS:

1	2-17-17	RIDEM COMMENTS

PROJECT NO.:	15180.01
DATE:	NOVEMBER 18, 2016
SCALE:	1"=20'
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:

GENERAL PLAN 1

DRAWING NO.:

C4-01

SHEET NO. 13 OF 42

PROPOSED RESIDENCE HALL

BIORETENTION AREA No. 1

BIORETENTION AREA No. 2

MATCHLINE – SEE SHEET C4-03

MATCHLINE – SEE SHEET C4-01

RTLD WALK, TYP.

RTLD STAIR

RTAD OVERHANG

VFS

RTLD DRIP EDGE

RTLD ELEVATED DECK

RTLD PATIO & WALL

RTLD PATIO

RTLD GATE

RTLD SITE LIGHTING

RTLD ACCESSIBLE RAMP

RTLD STAIR & HANDRAIL

RTLD WALK

RTLD DECK

RTLD GARDEN & ENCLOSURE

7.3.0 SET FLUSH

7.1.0

PBC

CM

CW WIDTH VARIES

CW 12' WIDE

LOD

FORESTED WETLAND

LIMIT OF CALCULATED 100-YR FLOOD PLAIN (ELEVATION VARIES)

AREA SUBJECT TO STORM FLOWAGE

VEGETATED SWALE, SEE DETAIL

NO PARKING

TP-3

TP-4

TP-5

TP-6

3 STORY BRICK

WEST ALUMNI AVENUE

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

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 2 9 2017 FILE # 16-0291
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NOTES:

1. CONTRACTOR SHALL PROVIDE LOAM AND SEED ON ALL DISTURBED AREAS. REFER TO LANDSCAPE DRAWINGS.
2. 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.
3. REFER TO LANDSCAPE DRAWINGS FOR DIMENSIONS AND MATERIAL OF THE WALKS.

Scale: 1"=20'

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

BROOKSIDE APARTMENTS
UNIVERSITY OF RHODE ISLAND

Assessor's Plat 15-4, Lot 7
West Alumni Avenue
Kingston, RI

DAVID L. POTTER
No. 8665
2.17.17
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:		
1	2-17-17	RIDEM COMMENTS

PROJECT NO.:	15180.01
DATE:	NOVEMBER 18, 2016
SCALE:	1"=20'
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:

GENERAL PLAN 2

DRAWING NO.: C4-02

SHEET NO. 14 OF 42

NOTES:

1. CONTRACTOR SHALL PROVIDE LOAM AND SEED ON ALL DISTURBED AREAS. REFER TO LANDSCAPE DRAWINGS.
2. 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.
3. REFER TO LANDSCAPE DRAWINGS FOR DIMENSIONS AND MATERIAL OF THE WALKS.

MATCHLINE – SEE SHEET C4-04

MATCHLINE – SEE ABOVE

MATCHLINE – SEE SHEET C4-01

MATCHLINE – SEE SHEET C4-02

"WHITE HORN BROOK" RIVER FLOW

PROPOSED RESIDENCE HALL

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 2 9 2017 FILE # 16-0891 CPD
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

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Scale: 1"=20'
0 10' 20' 40'

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

BROOKSIDE APARTMENTS
UNIVERSITY OF RHODE ISLAND

Assessor's Plat 154, Lot 7
West Alumni Avenue
Kingston, RI

DAVID L. POTTER
No. 8665
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
2.17.17

REVISIONS:		
1	2-17-17	RIDEM COMMENTS

PROJECT NO.:	15180.01
DATE:	NOVEMBER 18, 2016
SCALE:	1"=20'
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:

GENERAL PLAN 3

DRAWING NO.: C4-03

SHEET NO. 15 OF 42

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

FLAGG ROAD

"WHITE HORN BROOK" RIVER

FORESTED WETLAND

FORESTED WETLAND

FORESTED WETLAND

"WHITE HORN BROOK" RIVER FLOW

FLOW

AREA SUBJECT TO STORM FLOWAGE

LIMIT OF CALCULATED 100-YR FLOOD PLAIN (ELEVATION VARIES)

MATCHLINE – SEE SHEET C4-03

RTLD ACCESSIBLE RAMP

RTLD WALK

RTLD SHUTTLE STOP ON CONCRETE PAD

RTLD SIGN

RTLD DECK

CW 10' WIDE

CM TYP.

PBC

BC TYP.

7.3.0

7.3.2

7.2.4 TYP.

7.3.0 SET FLUSH 24' TYP.

7.3.0 TYP.

R1-2

R9-7 (MOD)

YL

LOD

TP-1

NOTES:

1. CONTRACTOR SHALL PROVIDE LOAM AND SEED ON ALL DISTURBED AREAS. REFER TO LANDSCAPE DRAWINGS.
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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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DATED MAR 29 2017 FILE # 16-0291
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0 10' 20' 40'

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

OWNER/APPLICANT:

UNIVERSITY OF RHODE ISLAND
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KINGSTON, RHODE ISLAND
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BROOKSIDE APARTMENTS
UNIVERSITY OF RHODE ISLAND

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Kingston, RI

DAVID L. POTTER
No. 8665
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
2.17.17

REVISIONS:

1	2-17-17	RIDEM COMMENTS

PROJECT NO.:	15180.01
DATE:	NOVEMBER 18, 2016
SCALE:	1"=20'
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:
GENERAL PLAN 4

DRAWING NO.: C4-04

SHEET NO. 16 OF 42

PARE
PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
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UNIVERSITY OF RHODE ISLAND

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2.17.17
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REVISIONS:		
1	2-17-17	RIDEM COMMENTS

PROJECT NO.:	15180.01
DATE:	NOVEMBER 18, 2016
SCALE:	1"=20'
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:

GRADING PLAN 1

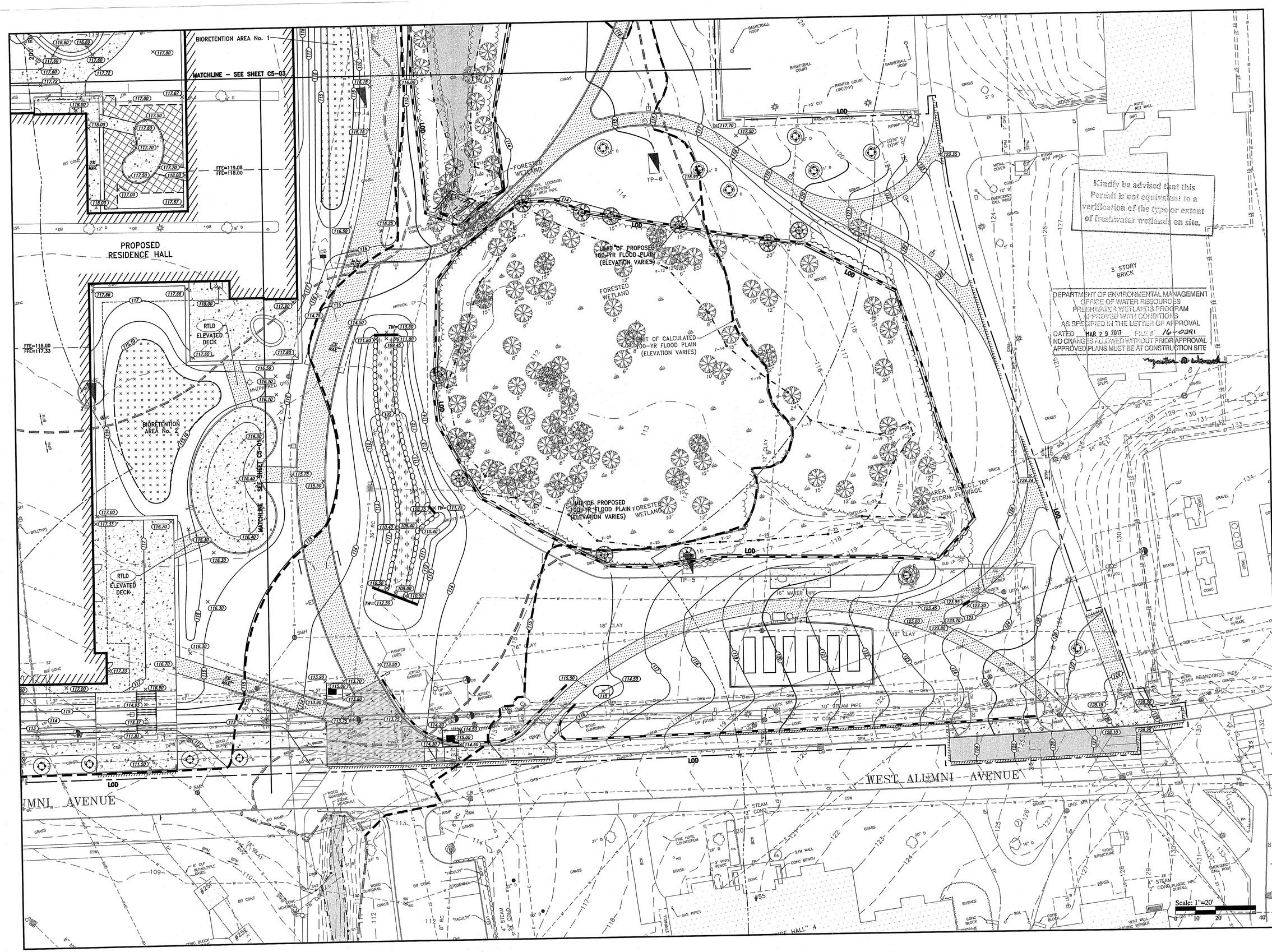
DRAWING NO.: C5-01

SHEET NO. 17 OF 42

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

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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Scale: 1"=20'



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DAVID L. POTTER
No. 8665
2.17.17
REGISTERED PROFESSIONAL ENGINEER

REVISIONS:

1	2-17-17	RIDEM COMMENTS

PROJECT NO.:	15180.01
DATE:	NOVEMBER 18, 2016
SCALE:	1"=20'
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:

GRADING PLAN 2

DRAWING NO.: C5-02

SHEET NO. 18 OF 42

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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MATCHLINE - SEE SHEET C5-02

MATCHLINE - SEE ABOVE

MATCHLINE - SEE SHEET C5-01

LIMIT OF PROPOSED 100-YR FLOOD PLAIN (ELEVATION VARIES)

AREA SUBJECT TO STORM FLOWAGE

PROPOSED RESIDENCE HALL

BIORETENTION AREA No. 1

200' RIVERBANK

"WHITE HORN BROOK" RIVER FLOW

"FACILITIES SERVICES AUTOMOTIVE" 1 STORY CONC BLOCK (GARAGES) 9 RHODY RAM WAY

1 STORY WOOD (GARAGES)

1 STORY WOOD/CONC GARAGES

OPEN STORAGE (EQUIPMENT)

OPEN STORAGE (MAINTENANCE EQUIPMENT)

SHRUB WETLAND

TP-2 TP-3 TP-7 TP-14

SEE NOTE (TYP.)

Scale: 1"=20'
0 10' 20' 40'

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2.17.17

REVISIONS:

1	2-17-17	RIDEM COMMENTS

PROJECT NO.:	15180.01
DATE:	NOVEMBER 18, 2016
SCALE:	1"=20'
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:

GRADING PLAN 3

DRAWING NO.:

C5-03

SHEET NO. 19 OF 42

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

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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FLAGG ROAD

"WHITE HORN BROOK" RIVER

FLOW

FORESTED WETLAND

LIMIT OF CALCULATED 100-YR FLOOD PLAIN (ELEVATION VARIES)

LIMIT OF PROPOSED 100-YR FLOOD PLAIN (ELEVATION VARIES)

LOD

MATCHLINE – SEE SHEET C5-03

AREA SUBJECT TO STORM FLOWAGE

TP-1

Scale: 1"=20'
0 10' 20' 40'

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

BROOKSIDE APARTMENTS
UNIVERSITY OF RHODE ISLAND

Assessor's Plat 154, Lot 7
West Alumni Avenue
Kingston, RI

DAVID L. POTTER
No. 8665
2.17.17
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:

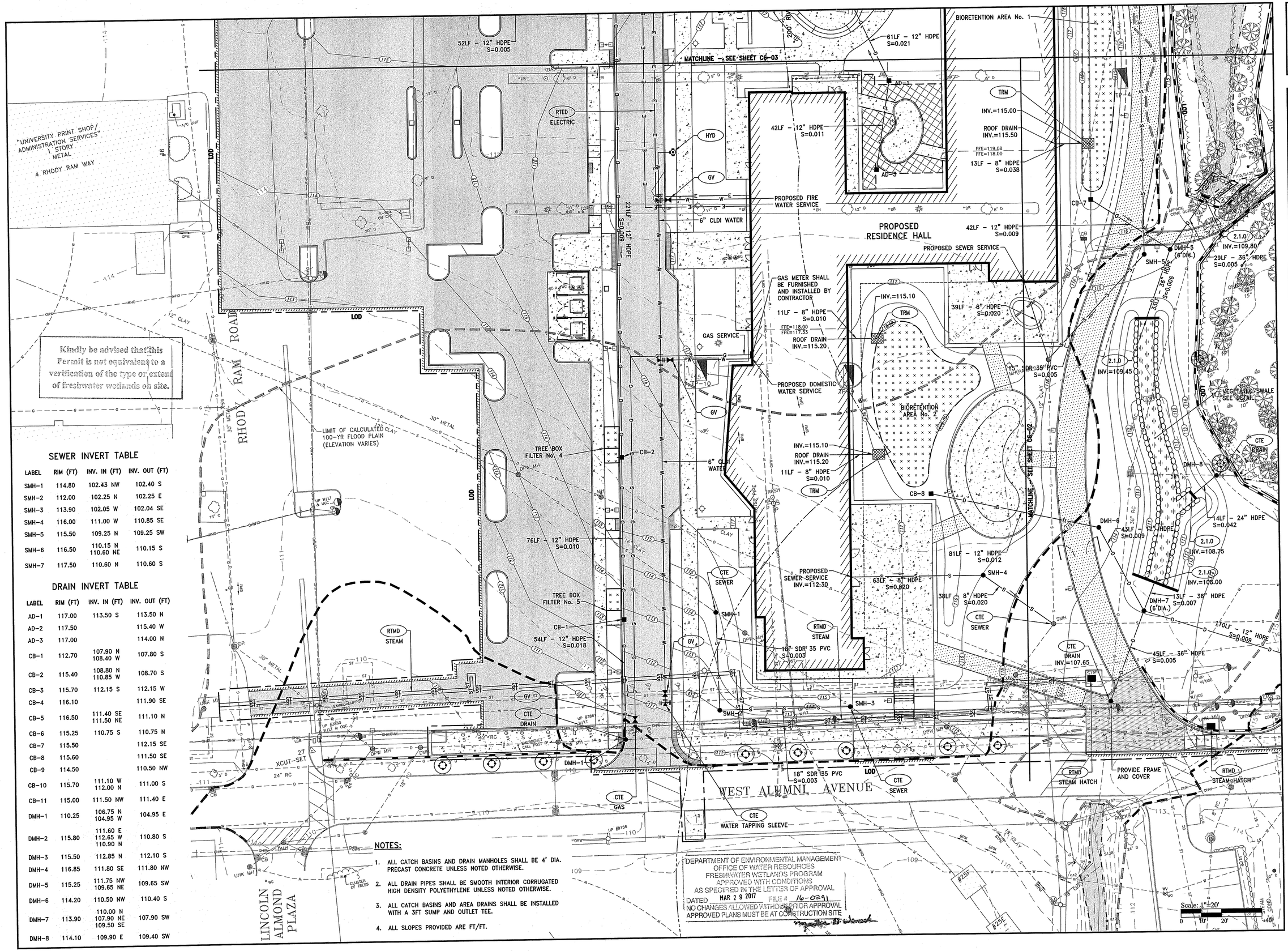
1	2-17-17	RIDEM COMMENTS

PROJECT NO.:	15180.01
DATE:	NOVEMBER 18, 2016
SCALE:	1"=20'
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:
GRADING PLAN 4

DRAWING NO.:
C5-04

SHEET NO. 20 OF 42



SEWER INVERT TABLE

LABEL	RIM (FT)	INV. IN (FT)	INV. OUT (FT)
SMH-1	114.80	102.43 NW	102.40 S
SMH-2	112.00	102.25 N	102.25 E
SMH-3	113.90	102.05 W	102.04 SE
SMH-4	116.00	111.00 W	110.85 SE
SMH-5	115.50	109.25 N	109.25 SW
SMH-6	116.50	110.15 N 110.60 NE	110.15 S
SMH-7	117.50	110.60 N	110.60 S

DRAIN INVERT TABLE

LABEL	RIM (FT)	INV. IN (FT)	INV. OUT (FT)
AD-1	117.00	113.50 S	113.50 N
AD-2	117.50		115.40 W
AD-3	117.00		114.00 N
CB-1	112.70	107.90 N 108.40 W	107.80 S
CB-2	115.40	108.80 N 110.85 W	108.70 S
CB-3	115.70	112.15 S	112.15 W
CB-4	116.10		111.90 SE
CB-5	116.50	111.40 SE 111.50 NE	111.10 N
CB-6	115.25	110.75 S	110.75 N
CB-7	115.50		112.15 SE
CB-8	115.60		111.50 SE
CB-9	114.50		110.50 NW
CB-10	115.70	111.10 W 112.00 N	111.00 S
CB-11	115.00	111.50 NW	111.40 E
DMH-1	110.25	106.75 N 104.95 W	104.95 E
DMH-2	115.80	111.60 E 112.65 W 110.90 N	110.80 S
DMH-3	115.50	112.85 N	112.10 S
DMH-4	116.85	111.80 SE	111.80 NW
DMH-5	115.25	111.75 NW 109.65 NE	109.65 SW
DMH-6	114.20	110.50 NW	110.40 S
DMH-7	113.90	110.00 N 107.90 NE 109.50 SE	107.90 SW
DMH-8	114.10	109.90 E	109.40 SW

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. ALL CATCH BASINS AND AREA DRAINS SHALL BE INSTALLED WITH A 3FT SUMP AND OUTLET TEE.
4. ALL SLOPES PROVIDED ARE FT/FT.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 2 9 2017 FILE # 16-0291
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

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

OWNER/APPLICANT:

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

BROOKSIDE APARTMENTS
UNIVERSITY OF RHODE ISLAND

Assessor's Plat 154, Lot 7
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DAVID L. POTTER
No. 8665
2.17.17
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:

1	2-17-17	RIDEM COMMENTS

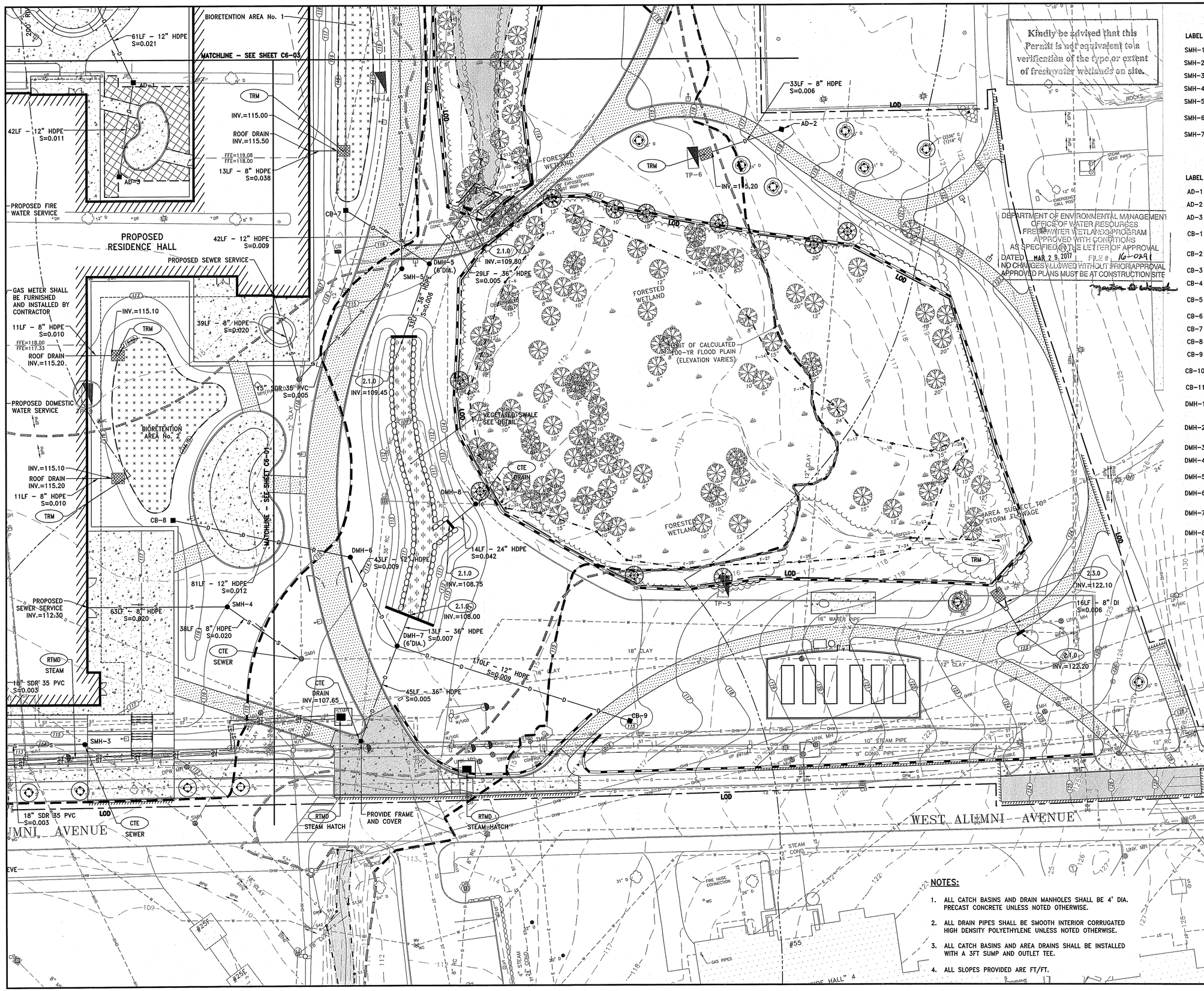
PROJECT NO.:	15180.01
DATE:	NOVEMBER 18, 2016
SCALE:	1"=20'
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:

DRAINAGE & UTILITY PLAN 1

DRAWING NO.: C6-01

SHEET NO. 21 OF 42



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. ALL CATCH BASINS AND AREA DRAINS SHALL BE INSTALLED WITH A 3FT SUMP AND OUTLET TEE.
4. ALL SLOPES PROVIDED ARE FT/FT.

SEWER INVERT TABLE

LABEL	RIM (FT)	INV. IN (FT)	INV. OUT (FT)
SMH-1	114.80	102.43 NW	102.40 S
SMH-2	112.00	102.25 N	102.25 E
SMH-3	113.90	102.05 W	102.04 SE
SMH-4	116.00	111.00 W	110.85 SE
SMH-5	115.50	109.25 N	109.25 SW
SMH-6	116.50	110.15 N 110.60 NE	110.15 S
SMH-7	117.50	110.60 N	110.60 S

DRAIN INVERT TABLE

LABEL	RIM (FT)	INV. IN (FT)	INV. OUT (FT)
AD-1	117.00	113.50 S	113.50 N
AD-2	117.50		115.40 W
AD-3	117.00		114.00 N
CB-1	112.70	107.90 N 108.40 W	107.80 S
CB-2	115.40	108.80 N 110.85 W	108.70 S
CB-3	115.70	112.15 S	112.15 W
CB-4	116.10		111.90 SE
CB-5	116.50	111.40 SE 111.50 NE	111.10 N
CB-6	115.25	110.75 S	110.75 N
CB-7	115.50		112.15 SE
CB-8	115.60		111.50 SE
CB-9	114.50		110.50 NW
CB-10	115.70	111.10 W 112.00 N	111.00 S
CB-11	115.00	111.50 NW	111.40 E
DMH-1	110.25	106.75 N 104.95 W	104.95 E
DMH-2	115.80	111.60 E 112.65 W 110.90 N	110.80 S
DMH-3	115.50	112.85 N	112.10 S
DMH-4	116.85	111.80 SE	111.80 NW
DMH-5	115.25	111.75 NW 109.65 NE	109.65 SW
DMH-6	114.20	110.50 NW	110.40 S
DMH-7	113.90	110.00 N 107.90 NE 109.50 SE	107.90 SW
DMH-8	114.10	109.90 E	109.40 SW

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UNIVERSITY OF RHODE ISLAND

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DAVID L. POTTER
No. 8665
2.17.17
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:		
1	2-17-17	RIDEM COMMENTS

PROJECT NO.:	15180.01
DATE:	NOVEMBER 18, 2016
SCALE:	1"=20'
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:

DRAINAGE & UTILITY PLAN 2

DRAWING NO.: C6-02

SHEET NO. 22 OF 42

SEWER INVERT TABLE

LABEL	RIM (FT)	INV. IN (FT)	INV. OUT (FT)
SMH-1	114.80	102.43 NW	102.40 S
SMH-2	112.00	102.25 N	102.25 E
SMH-3	113.90	102.05 W	102.04 SE
SMH-4	116.00	111.00 W	110.85 SE
SMH-5	115.50	109.25 N	109.25 SW
SMH-6	116.50	110.15 N 110.60 NE	110.15 S
SMH-7	117.50	110.60 N	110.60 S

DRAIN INVERT TABLE

LABEL	RIM (FT)	INV. IN (FT)	INV. OUT (FT)
AD-1	117.00	113.50 S	113.50 N
AD-2	117.50		115.40 W
AD-3	117.00		114.00 N
CB-1	112.70	107.90 N 108.40 W	107.80 S
CB-2	115.40	108.80 N 110.85 W	108.70 S
CB-3	115.70	112.15 S	112.15 W
CB-4	116.10		111.90 SE
CB-5	116.50	111.40 SE 111.50 NE	111.10 N
CB-6	115.25	110.75 S	110.75 N
CB-7	115.50		112.15 SE
CB-8	115.60		111.50 SE
CB-9	114.50		110.50 NW
CB-10	115.70	111.10 W 112.00 N	111.00 S
CB-11	115.00	111.50 NW	111.40 E
DMH-1	110.25	106.75 N 104.95 W	104.95 E
DMH-2	115.80	111.60 E 112.65 W 110.90 N	110.80 S
DMH-3	115.50	112.85 N	112.10 S
DMH-4	116.85	111.80 SE	111.80 NW
DMH-5	115.25	111.75 NW 109.65 NE	109.65 SW
DMH-6	114.20	110.50 NW	110.40 S
DMH-7	113.90	110.00 N 107.90 NE 109.50 SE	107.90 SW
DMH-8	114.10	109.90 E	109.40 SW

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. ALL CATCH BASINS AND AREA DRAINS SHALL BE INSTALLED WITH A 3FT SUMP AND OUTLET TEE.
4. ALL SLOPES PROVIDED ARE FT/FT.

MATCHLINE – SEE SHEET C6-04

2.1.0
INV.=116.45
20LF – 15" DI
S=0.010

2.3.0
INV.=116.35

INV.=116.50

AREA SUBJECT TO STORM FLOWAGE

"WHITE HORN BROOK" RIVER FLOW

TRM

TP-2

TP-3

TP-4

TP-7

TP-8

ROCKS

SHRUB WETLAND

1 STORY WOOD/CONC GARAGES

2 STORY WOOD OPEN BARN

CTE DRAIN
INV.=110.65

11LF – 12" HDPE
S=0.008

CB-6

39LF – 12" HDPE
S=0.008

TREE BOX FILTER No. 1

CB-5

RTED TRANSFORMER

RTED ELECTRIC

RTED GENERATOR

46LF – 12" HDPE
S=0.008

DMH-4

TREE BOX FILTER No. 2

OPEN STORAGE

PILE

CTE SEWER

SMH-7

15" SDR 35 PVC
S=0.005

SMH-6

CTE SEWER

INV.=115.85
12LF – 8" HDPE
S=0.013

ROOF DRAIN
INV.=116.00

PROPOSED RESIDENCE HALL

15" SDR 35 PVC
S=0.005

106LF – 12" HDPE
S=0.005

TREE BOX FILTER No. 6

CB-3

200' RIVERBANK

BIORETENTION AREA No. 1

61LF – 12" HDPE
S=0.021

AD-1

MATCHLINE – SEE SHEET C6-01

CB-4

TREE BOX FILTER No. 3

78LF – 12" HDPE
S=0.005

CB-11

14LF – 12" HDPE
S=0.006

CB-10

12LF – 12" HDPE
S=0.006

DMH-3

DMH-2

TREE BOX FILTER No. 7

12LF – 12" HDPE
S=0.005

INV.=115.00

2.1.0
INV.=115.15

27LF – 8" DI
S=0.006

"NO VI/BOX"

24" CP

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0 10' 20' 40'

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BROOKSIDE APARTMENTS
UNIVERSITY OF RHODE ISLAND

Assessor's Plat 15-4, Lot 7
West Alumni Avenue
Kingston, RI

DAVID L. POTTER
No. 8665
2.17.17
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:

1	2-17-17	RIDEM COMMENTS

PROJECT NO.:	15180.01
DATE:	NOVEMBER 18, 2016
SCALE:	1"=20'
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:

DRAINAGE & UTILITY PLAN 3

DRAWING NO.: C6-03

SHEET NO. 23 OF 42

SEWER INVERT TABLE

LABEL	RIM (FT)	INV. IN (FT)	INV. OUT (FT)
SMH-1	114.80	102.43 NW	102.40 S
SMH-2	112.00	102.25 N	102.25 E
SMH-3	113.90	102.05 W	102.04 SE
SMH-4	116.00	111.00 W	110.85 SE
SMH-5	115.50	109.25 N	109.25 SW
SMH-6	116.50	110.15 N 110.60 NE	110.15 S
SMH-7	117.50	110.60 N	110.60 S

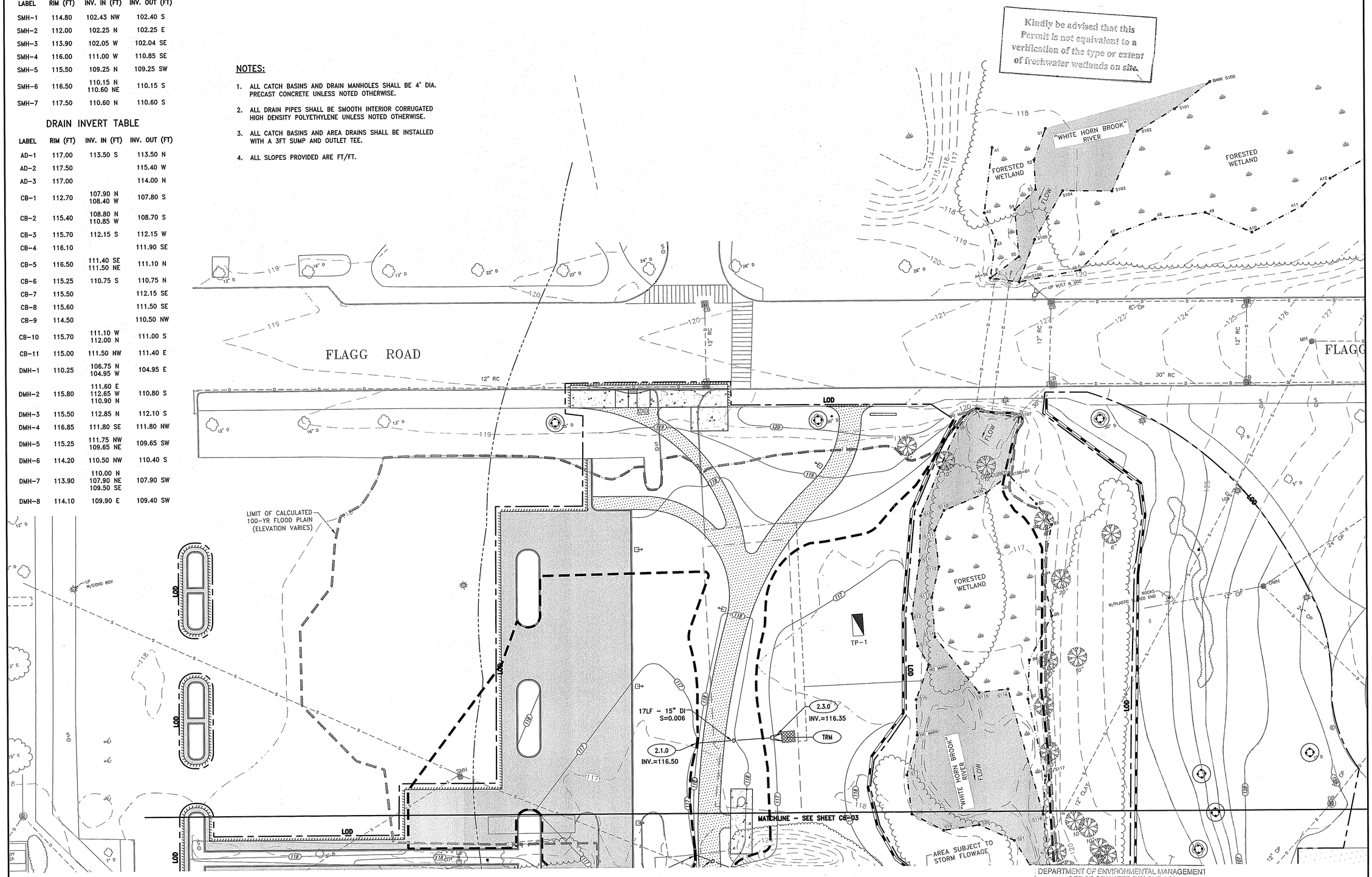
DRAIN INVERT TABLE

LABEL	RIM (FT)	INV. IN (FT)	INV. OUT (FT)
AD-1	117.00	113.50 S	113.50 N
AD-2	117.50		115.40 W
AD-3	117.00		114.00 N
CB-1	112.70	107.90 N 108.40 W	107.80 S
CB-2	115.40	108.80 N 110.85 W	108.70 S
CB-3	115.70	112.15 S	112.15 W
CB-4	116.10		111.90 SE
CB-5	116.50	111.40 SE 111.50 NE	111.10 N
CB-6	115.25	110.75 S	110.75 N
CB-7	115.50		112.15 SE
CB-8	115.60		111.50 SE
CB-9	114.50		110.50 NW
CB-10	115.70	111.10 W 112.00 N	111.00 S
CB-11	115.00	111.50 NW	111.40 E
DMH-1	110.25	106.75 N 104.95 W	104.95 E
DMH-2	115.80	111.60 E 112.65 W 110.90 N	110.80 S
DMH-3	115.50	112.85 N	112.10 S
DMH-4	116.85	111.80 SE	111.80 NW
DMH-5	115.25	111.75 NW 109.65 NE	109.65 SW
DMH-6	114.20	110.50 NW	110.40 S
DMH-7	113.90	110.00 N 107.90 NE 109.50 SE	107.90 SW
DMH-8	114.10	109.90 E	109.40 SW

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. ALL CATCH BASINS AND AREA DRAINS SHALL BE INSTALLED WITH A 3FT SUMP AND OUTLET TEE.
4. ALL SLOPES PROVIDED ARE FT/FT.

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UNIVERSITY OF RHODE ISLAND

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REVISIONS:		
1	2-17-17	RIDEM COMMENTS

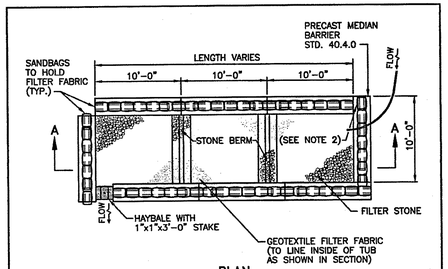
PROJECT NO.:	15180.01
DATE:	NOVEMBER 18, 2016
SCALE:	1"=20'
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:

DRAINAGE & UTILITY PLAN 4

DRAWING NO.: C6-04

SHEET NO. 24 OF 42



NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 208 OF THE R.I. STANDARD SPECIFICATIONS.
2. PROVIDE ADDITIONAL SAND BAGS AS REQUIRED TO FILL SPACE BETWEEN ADJACENT BARRIERS.

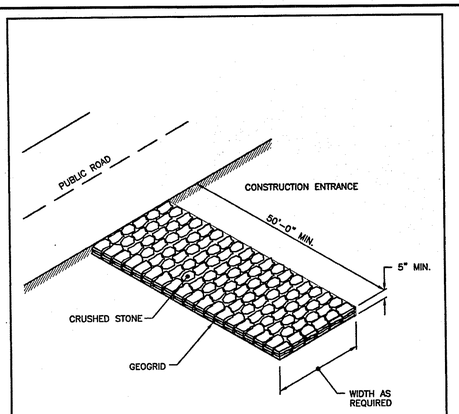
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS NO.	BY	DATE

DEWATERING BASIN

R.I. STANDARD 9.7.0

JUNE 15, 1998 ISSUE DATE



NOTE:
SHALL BE IN ACCORDANCE WITH SECTION 211 OF THE R.I. STANDARD SPECIFICATIONS.

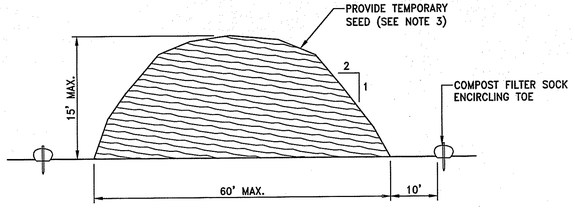
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS NO.	BY	DATE

CONSTRUCTION ACCESS

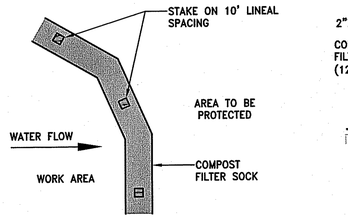
R.I. STANDARD 9.9.0

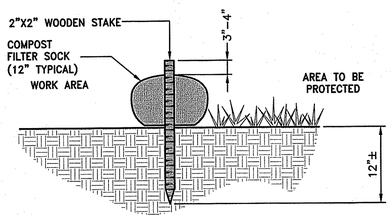
JUNE 15, 1998 ISSUE DATE



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. USE MASSDOT STD. M6.03.1 EROSION SEED).

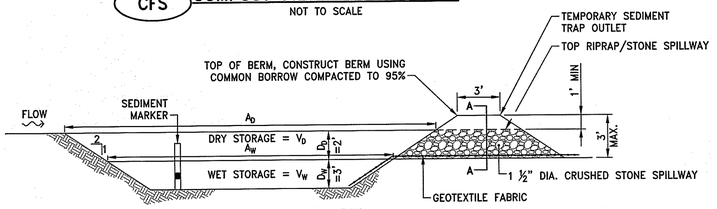
ERODIBLE MATERIAL STOCKPILE
NOT TO SCALE



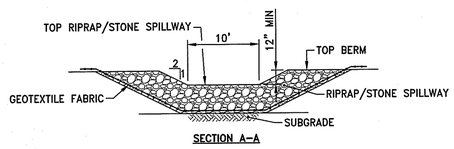


NOTES:
1. COMPOST/ SOIL/ ROCK/ SEED FILL TO MEET APPLICATION REQUIREMENTS.
2. COMPOST MATERIAL TO BE REMOVED OR DISPERSED ON SITE AS DETERMINED BY ENGINEER.

CFS COMPOST FILTER SOCK DETAIL
NOT TO SCALE



ELEVATION

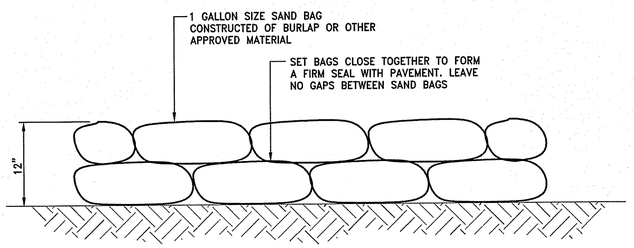


SECTION A–A

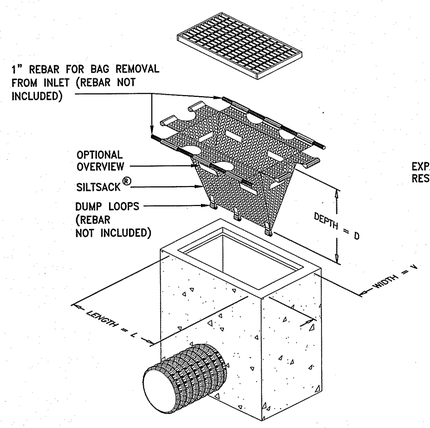
NOTES:
1. TEMPORARY SEDIMENT TRAPS SHALL BE CLEANED OR REMOVED EVERY 6 MONTHS.
2. RIPRAP SHALL MEET RIDOT STANDARD SPECIFICATION M.10.03.2.
3. STONE SHALL MEET RIDOT STANDARD SPECIFICATION M.01.09 TABLE I, COLUMN V (FILTER STONE).
4. SEDIMENT MARKER SHALL BE INSTALLED SUCH THAT TOP OF BLACK ENAMEL BAND IS 1.5' FROM THE BOTTOM OF THE SEDIMENT TRAP.

TST #	L_W (FT)	W_W (FT)	A_W (SF)	V_W (CF)	V_D (CF)	TOTAL STORAGE $V_W + V_D$ (CF)
TST-1	20	13	260	663	816	1479
TST-2	22	16	352	898	1040	1938
TST-3	30	16	480	1360	1183	2584
TST-4	100	14	1400	3570	3744	7314
TST-5	25	10	250	638	812	1450
TST-6	35	26	910	2321	2340	4661
TST-7	50	27	1350	3443	3348	6791

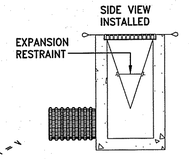
TST TEMPORARY SEDIMENT TRAP DETAIL
NOT TO SCALE



SB SAND BAG EROSION CONTROL BARRIER
NOT TO SCALE



TIP TEMPORARY INLET PROTECTION
NOT TO SCALE

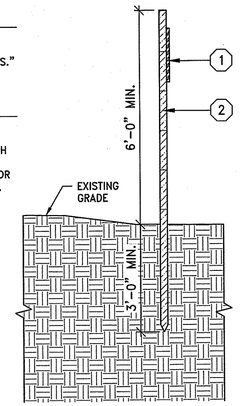


INSTALLATION DETAIL

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 2 9 2017 FILE # 16-0291
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

LEGEND
1. SIGN – "KEEP OUT: SITE PROTECTION ZONE. PENALTIES ASSESSED FOR DAMAGE TO TREES."
2. CHAIN LINK FENCE POST SET IN GROUND

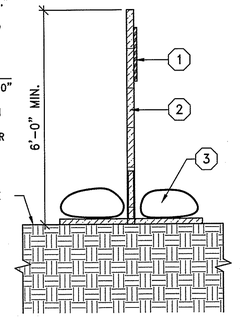
NOTES
A. SIGNS SHALL BE PLACED AT 30'–0" INTERVALS.
B. SIGNS SHALL HAVE BOTH ENGLISH AND SPANISH TRANSLATION.
C. REFER TO "DEMOLITION PLAN" FOR LOCATIONS OF TREE PROTECTION.



TREE PROTECTION FENCE – AT DRIPLINE
NOT TO SCALE

LEGEND
1. SIGN – "KEEP OUT: SITE PROTECTION ZONE. PENALTIES ASSESSED FOR DAMAGE TO TREES."
2. REMOVABLE SECTION OF FENCE WITH FENCE POSTS SET IN STAND
3. 40LB SAND BAGS, OR EQUAL

NOTES
A. SIGNS SHALL BE PLACED AT 30'–0" INTERVALS.
B. SIGNS SHALL HAVE BOTH ENGLISH AND SPANISH TRANSLATION.
C. REFER TO "DEMOLITION PLAN" FOR LOCATIONS OF TREE PROTECTION.



TREE PROTECTION FENCE – SURFACE
NOT TO SCALE

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

BROOKSIDE APARTMENTS
UNIVERSITY OF RHODE ISLAND
Assessor's Plat 15-4, Lot 7
West Alumni Avenue
Kingston, RI

DAVID L. POTTER
No. 8665
2.17.17
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

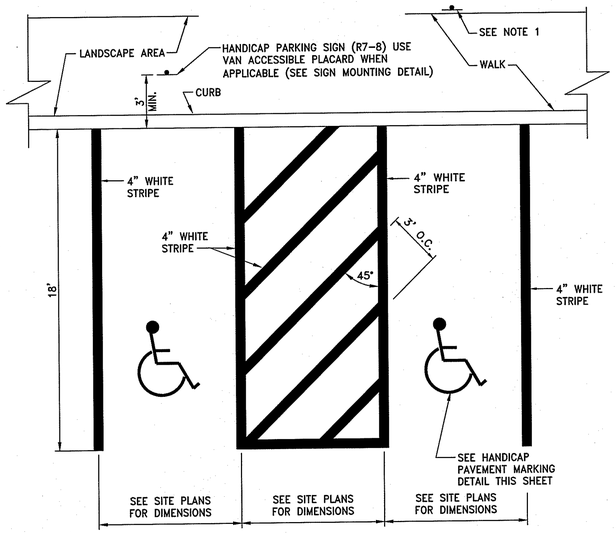
REVISIONS:		
1	2-17-17	RIDEM COMMENTS

PROJECT NO.:	15180.01
DATE:	NOVEMBER 18, 2016
SCALE:	NOT TO SCALE
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:
DETAILS 1

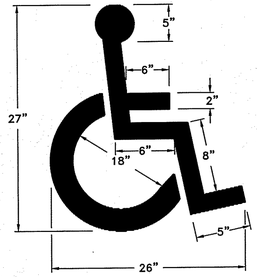
DRAWING NO.: C7-01

SHEET NO. 25 OF 42



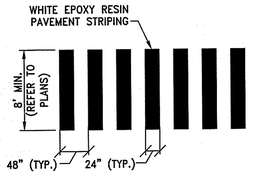
NOTE:
1. WHERE STALLS ABUT SIDEWALK, PARKING SIGNS SHOULD BE PLACED AT BACK EDGE OF SIDEWALK.
2. ALL PAVEMENT MARKINGS TO BE EPOXY RESIN.

HANDICAP PARKING STALLS @ 90°
NOT TO SCALE

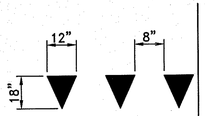


NOTE:
HANDICAP PARKING AND SIGNAGE SHALL BE IN CONFORMANCE WITH THE RULES & REGULATIONS OF THE AMERICANS WITH DISABILITIES ACT.

SHP **HANDICAP PAVEMENT MARKING**
NOT TO SCALE



CW **TYPICAL CROSSWALK DETAIL**
NOT TO SCALE

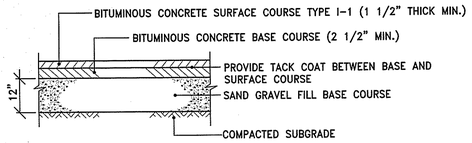


YL **YIELD LINE**
NOT TO SCALE

LEGEND	DESIGNATION	SIZE
STOP	R1-1	(30" x 30")
DO NOT ENTER	R5-1	(24" x 24")
	W11-2	(30" x 30")
	W16-7P	(12" x 24")
YIELD	R1-2	(18" x 18" x 18")
WALK ON LEFT FACING TRAFFIC	R9-7 (MOD)	(18" x 24")

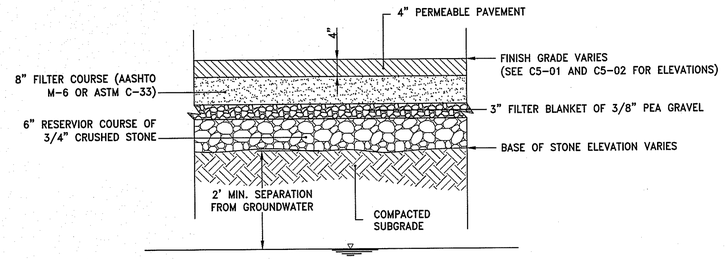
NOTE:
1. SIGNS SHALL BE CONSTRUCTED OF TYPE III REFLECTORIZED SHEETING AND IN ACCORDANCE WITH MUTCD REQUIREMENTS.
2. THE CONTRACTOR SHALL SUBMIT SAMPLE SIGNS TO THE OWNER FOR APPROVAL PRIOR TO FURNISHING.
3. LETTERS, COLOR, AND FONT FOR NON-STANDARD SIGNS SHALL BE SELECTED BY THE OWNER.

SIGN SCHEDULE

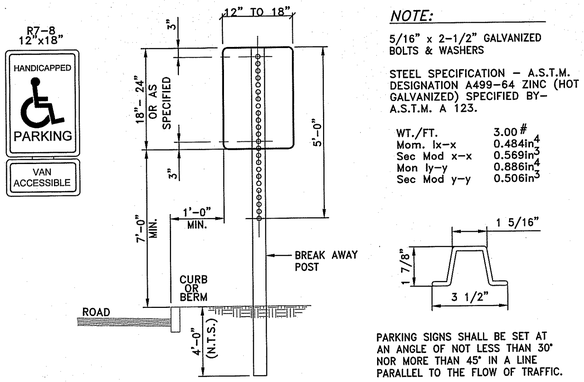


NOTES:
1. SUBMIT JOB MIX FORMULAS TO ENGINEER FOR APPROVAL PRIOR TO PLACEMENT.

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



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



NOTE:

5/16" x 2-1/2" GALVANIZED BOLTS & WASHERS

STEEL SPECIFICATION – A.S.T.M. DESIGNATION A499-64 ZINC (HOT GALVANIZED) SPECIFIED BY- A.S.T.M. A 123.

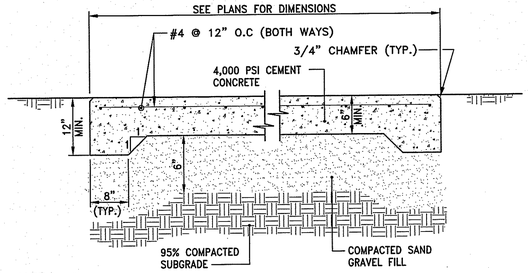
WT./FT.	3.00 #
Mom. Ix-x	0.484in^4
Sec Mod x-x	0.569in^3
Mon Iy-y	0.886in^4
Sec Mod y-y	0.506in^3

PARKING SIGNS SHALL BE SET AT AN ANGLE OF NOT LESS THAN 30° NOR MORE THAN 45° IN A LINE PARALLEL TO THE FLOW OF TRAFFIC.

SIGN MOUNTING NOTES:
1. ALL LAG SCREWS, BOLTS AND WASHERS SHALL BE GALVANIZED 5/16"x2 1/2" LONG UNLESS OTHERWISE NOTED.
2. WASHERS SHALL BE 0.07" THICK.
3. ALL SIGN COLORS, RADII AND BORDERS AS SPECIFIED IN "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."
4. SHALL BE IN ACCORDANCE WITH SECTION T.15 OF THE STANDARD SPECIFICATIONS.
5. PARKING SIGNS SHALL BE SET AT AN ANGLE OF NOT LESS THAN 30° NOT MORE THAN 45° WITH A LINE PARALLEL TO FLOW OF TRAFFIC, 1'-6" (1'-0" MIN.) FROM THE EDGE OF CURB FACE.

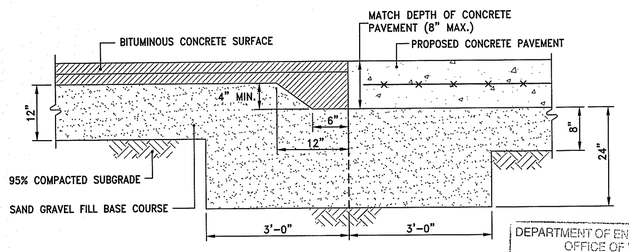
HANDICAP SIGN NOTES:
1. ALL HANDICAP PARKING AND SIGNAGE SHALL BE IN CONFORMANCE WITH THE RULES & REGULATIONS AS SPECIFIED BY THE AMERICAN DISABILITES ACT (ADA).
2. SIGN(S) SHALL BE LOCATED SO THEY CANNOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE.
3. FOR HANDICAPPED VAN SPACE USE SIGN AS DETAILED.
4. FOR HANDICAPPED SPACE FOR AUTOMOBILES USE ONLY HANDICAPPED PARKING SIGN.

SIGN MOUNTING
NOT TO SCALE



NOTE:
1. REINFORCING TO BE #4 GRADE 60 BARS AND SHALL CONFORM TO ASTM STANDARD A-615 OF THE LATEST DATA. REINFORCING RODS TO BE LOCATED IN THE CENTER OF THE SLAB, WITH A MINIMUM OF 2" CLEARANCE FROM FACE OF CONCRETE.

CP **CEMENT CONCRETE PAD**
NOT TO SCALE



ASPHALT TURNDOWN DETAIL
NOT TO SCALE

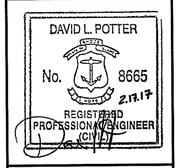
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 2 9 2017 FILE # 16-0291
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

PARE
PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
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OWNER/APPLICANT:
UNIVERSITY OF RHODE ISLAND
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BROOKSIDE APARTMENTS
UNIVERSITY OF RHODE ISLAND
Assessor's Plat 15-4, Lot 7
West Alumni Avenue
Kingston, RI



REVISIONS:

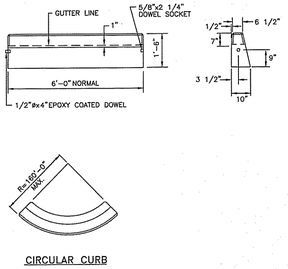
1	2-17-17	RIDEM COMMENTS

PROJECT NO.:	15180.01
DATE:	NOVEMBER 18, 2016
SCALE:	NOT TO SCALE
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:
DETAILS 2

DRAWING NO.:
C7-02

SHEET NO. 26 OF 42

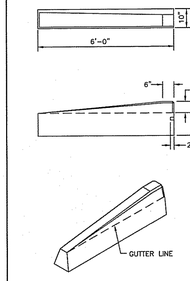


CIRCULAR CURB

NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
2. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3'-0".
3. EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH.
4. CIRCULAR CURB IS REQUIRED ON CURVES WITH RADII OF 160'-0" OR LESS. STRAIGHT CURB TO BE USED ON CURVES OF MORE THAN 160'-0"RADIUS.
5. EXPOSED EDGES TO HAVE A 3/4" CHAMFER.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

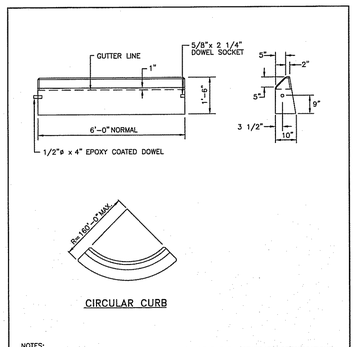
REVISIONS			PRECAST CONCRETE CURB	R.I. STANDARD 7.1.0
NO.	BY	DATE		
1	MLP	Mar 05		
			JUNE 15, 1998 (ISSUE DATE)	



NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
2. DRAWING SHOWS TRANSITION CURB FOR ONE DIRECTION. FOR OTHER DIRECTION USE OPPOSITE HAND AND INCLUDE A 1/2" ø x 4" EPOXY COATED DOWEL.
3. EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH.
4. EXPOSED EDGES TO HAVE A 3/4" CHAMFER.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS			6'-0" PRECAST CONCRETE TRANSITION CURB	R.I. STANDARD 7.1.2
NO.	BY	DATE		
1	MLP	Mar 05		
			JUNE 15, 1998 (ISSUE DATE)	

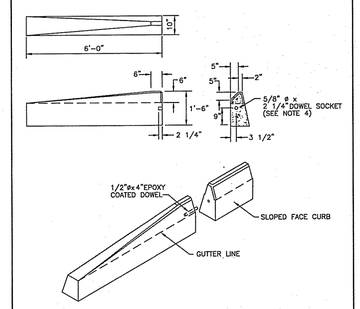


CIRCULAR CURB

NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
2. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR PIECES TO BE 3'-0".
3. EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH.
4. EXPOSED EDGES TO HAVE A 3/4" CHAMFER.
5. CIRCULAR CURB IS REQUIRED ON CURVES WITH RADII OF 160'-0" OR LESS. STRAIGHT CURB TO BE USED ON CURVES OF MORE THAN 160'-0" RADIUS.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

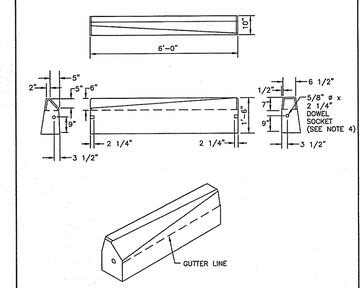
REVISIONS			PRECAST CONCRETE SLOPED FACE CURB	R.I. STANDARD 7.2.0
NO.	BY	DATE		
1	MLP	Mar 05		
			JUNE 15, 1998 (ISSUE DATE)	



NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
2. EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH.
3. EXPOSED EDGES TO HAVE A 3/4" CHAMFER.
4. DRAWING SHOWS TRANSITION CURB FOR ONE DIRECTION. FOR OTHER DIRECTION USE OPPOSITE HAND AND INCLUDE A 1/2" ø x 4" EPOXY COATED DOWEL.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

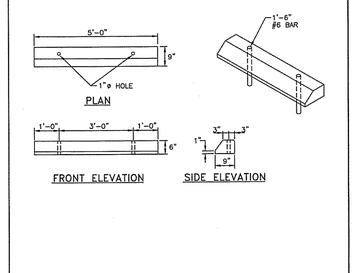
REVISIONS			PRECAST CONCRETE SLOPED FACE TRANSITION CURB	R.I. STANDARD 7.2.1
NO.	BY	DATE		
1	MLP	Mar 05		
			JUNE 15, 1998 (ISSUE DATE)	



NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
2. EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH.
3. EXPOSED EDGES TO HAVE A 3/4" CHAMFER.
4. DRAWING SHOWS TRANSITION CURB FOR ONE DIRECTION. FOR OTHER DIRECTION USE OPPOSITE HAND AND INCLUDE A 1/2" ø x 4" EPOXY COATED DOWEL.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

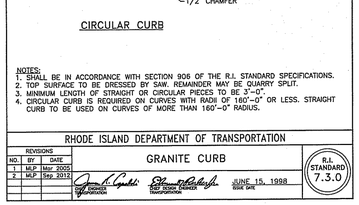
REVISIONS			PRECAST CONCRETE TRANSITION CURB (VERTICAL FACE TO SLOPED FACE)	R.I. STANDARD 7.2.2
NO.	BY	DATE		
1	MLP	Mar 05		
			JUNE 15, 1998 (ISSUE DATE)	



NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
2. ALL EXPOSED EDGES TO HAVE A 3/4" CHAMFER.
3. ALL SURFACES TO HAVE A SPONGE FLOAT FINISH.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS			PRECAST CONCRETE CAR STOPS	R.I. STANDARD 7.2.4
NO.	BY	DATE		
1	MLP	Mar 05		
			JUNE 15, 1998 (ISSUE DATE)	

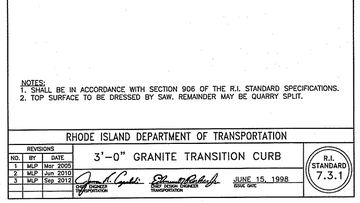


CIRCULAR CURB

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 RADII OF 160'-0" OR LESS. STRAIGHT CURB TO BE USED ON CURVES OF MORE THAN 160'-0" RADIUS.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

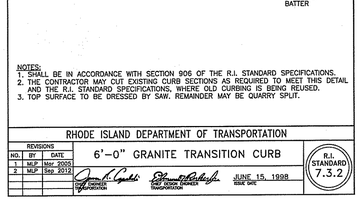
REVISIONS			GRANITE CURB	R.I. STANDARD 7.3.0
NO.	BY	DATE		
1	MLP	Mar 2005		
2	MLP	Sep 2012		
			JUNE 15, 1998 (ISSUE DATE)	



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.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

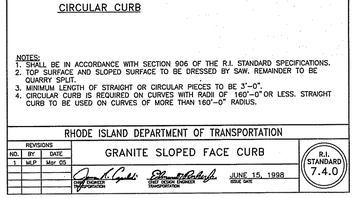
REVISIONS			3'-0" GRANITE TRANSITION CURB	R.I. STANDARD 7.3.1
NO.	BY	DATE		
1	MLP	Mar 2005		
2	MLP	Jun 2010		
3	MLP	Sep 2012		
			JUNE 15, 1998 (ISSUE DATE)	



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.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS			6'-0" GRANITE TRANSITION CURB	R.I. STANDARD 7.3.2
NO.	BY	DATE		
1	MLP	Mar 2005		
2	MLP	Sep 2012		
			JUNE 15, 1998 (ISSUE DATE)	

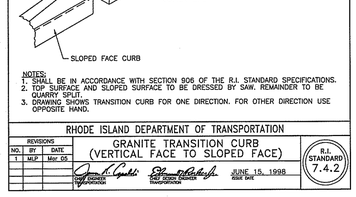


CIRCULAR CURB

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

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

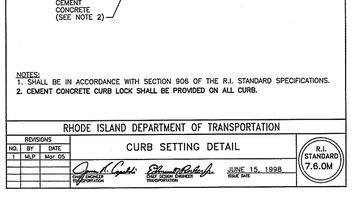
REVISIONS			GRANITE SLOPED FACE CURB	R.I. STANDARD 7.4.0
NO.	BY	DATE		
1	MLP	Mar 05		
			JUNE 15, 1998 (ISSUE DATE)	



NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
2. TOP SURFACE AND SLOPED SURFACE TO BE DRESSED BY SAW. REMAINDER TO BE QUARRY SPLIT.
3. DRAWING SHOWS TRANSITION CURB FOR ONE DIRECTION. FOR OTHER DIRECTION USE OPPOSITE HAND.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

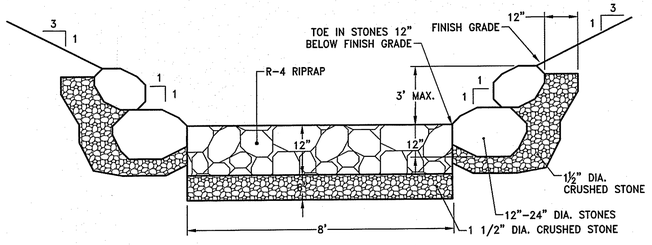
REVISIONS			GRANITE TRANSITION CURB (VERTICAL FACE TO SLOPED FACE)	R.I. STANDARD 7.4.2
NO.	BY	DATE		
1	MLP	Mar 05		
			JUNE 15, 1998 (ISSUE DATE)	



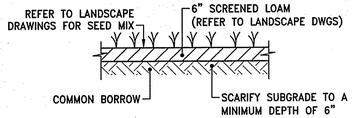
NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
2. CEMENT CONCRETE CURB LOCK SHALL BE PROVIDED ON ALL CURB.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

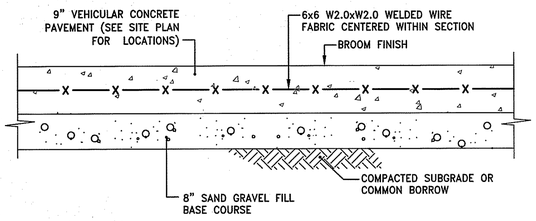
REVISIONS			CURB SETTING DETAIL	R.I. STANDARD 7.6.0M
NO.	BY	DATE		
1	MLP	Mar 05		
			JUNE 15, 1998 (ISSUE DATE)	



VEGETATED SWALE DETAIL
NOT TO SCALE



VFS VEGETATED FILTER STRIP
NOT TO SCALE



VCP VEHICULAR CONCRETE PAVEMENT
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 MAR 2 9 2017 FILE # 16-0291
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
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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

BROOKSIDE APARTMENTS
UNIVERSITY OF RHODE ISLAND

Assessor's Plat 154, Lot 7
West Alumni Avenue
Kingston, RI

DAVID L. POTTER
No. 8665
2.17.17
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

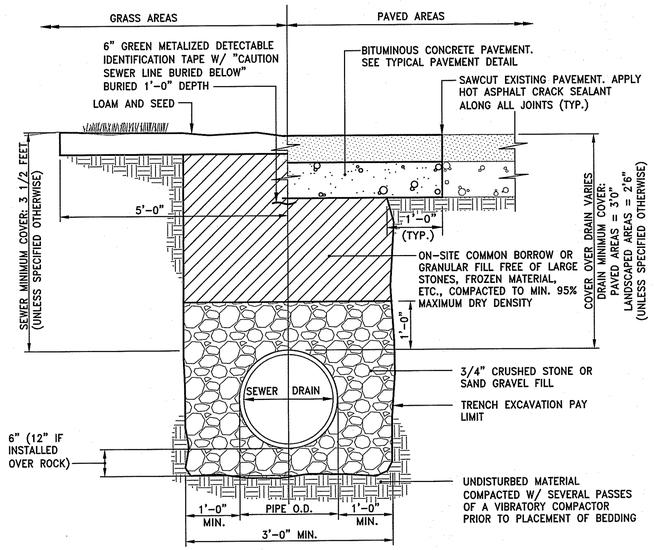
REVISIONS:		
1	2-17-17	RIDEM COMMENTS

PROJECT NO.:	15180.01
DATE:	NOVEMBER 18, 2016
SCALE:	NOT TO SCALE
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:
DETAILS 3

DRAWING NO.:
C7-03

SHEET NO. 27 OF 42

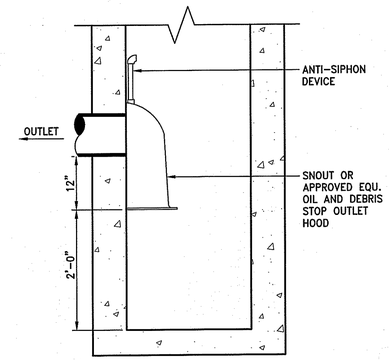


NOTES:

1. 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.
2. 3/4" DIA. CRUSHED STONE SHALL BE USED AS BEDDING WHERE TRENCH IS BELOW THE GROUND WATER TABLE.

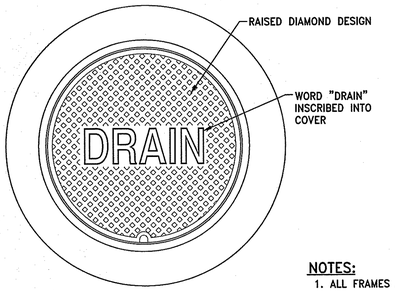
GRAVITY SEWER/DRAIN TRENCH DETAIL

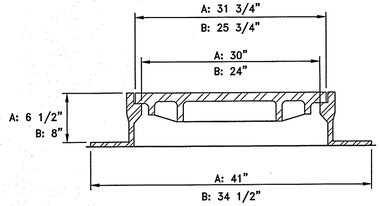
NOT TO SCALE



OUTLET HOOD DETAIL

NOT TO SCALE



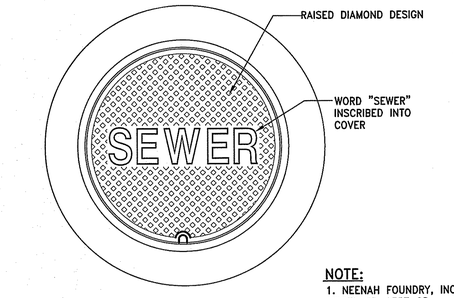


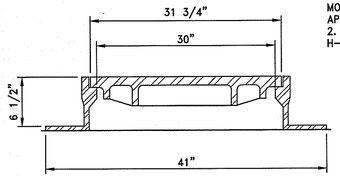
DRAIN MANHOLE FRAME & COVER

NOT TO SCALE

NOTES:

1. ALL FRAMES AND COVERS SHALL MEET H-20 LOADING CRITERIA.
2. 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.
3. ALL DRAIN MANHOLES SHALL HAVE 24" DIA. DRAIN MANHOLE COVER UNLESS NOTED OTHERWISE.



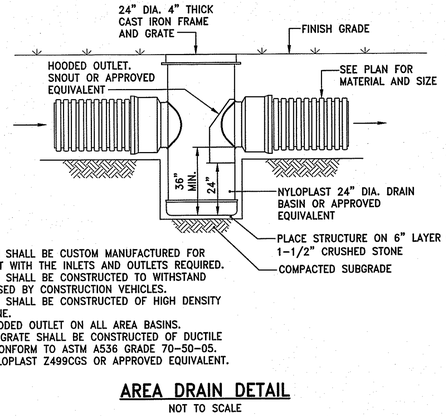


SANITARY MANHOLE FRAME & COVER

NOT TO SCALE

NOTE:

1. NEENAH FOUNDRY, INC. MODEL #R-1557 OR APPROVED EQUIVALENT
2. COVER SHALL MEET H-20 LOADING CRITERIA

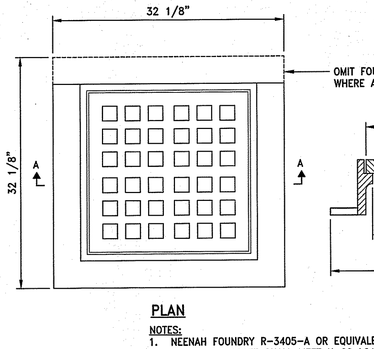


NOTES:

1. DRAIN BASIN SHALL BE CUSTOM MANUFACTURED FOR THE PROJECT WITH THE INLETS AND OUTLETS REQUIRED.
2. STRUCTURES SHALL BE CONSTRUCTED TO WITHSTAND LOADS IMPOSED BY CONSTRUCTION VEHICLES.
3. DRAIN BASIN SHALL BE CONSTRUCTED OF HIGH DENSITY POLYETHYLENE.
4. PROVIDE HOODED OUTLET ON ALL AREA BASINS.
5. FRAME AND GRATE SHALL BE CONSTRUCTED OF DUCTILE IRON AND CONFORM TO ASTM A536 GRADE 70-50-05. PROVIDE NYLOPLAST Z499CGS OR APPROVED EQUIVALENT.

AREA DRAIN DETAIL

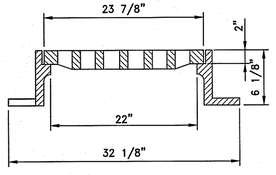
NOT TO SCALE



PLAN

NOTES:

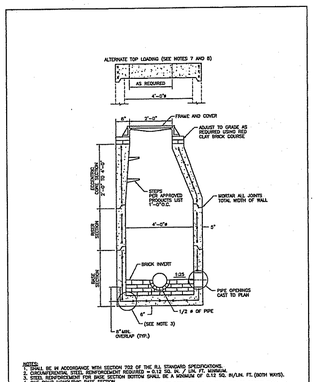
1. NEENAH FOUNDRY R-3405-A OR EQUIVALENT.
2. FRAME AND GRATE SHALL MEET H-20 LOADING CRITERIA.



SECTION A-A

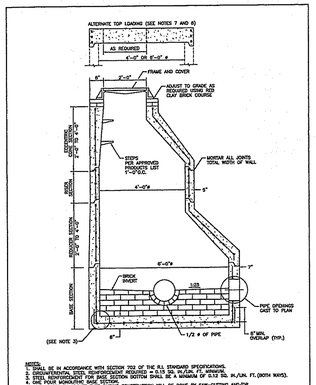
SQUARE CATCH BASIN FRAME & GRATE

NOT TO SCALE



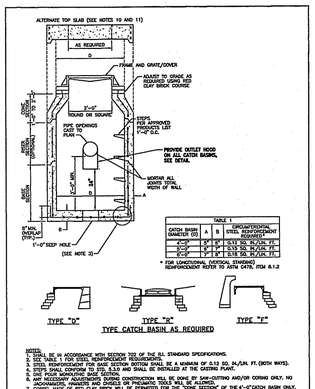
NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
2. CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED = 0.19 SQ. IN./LIN. FT. MINIMUM.
3. STEEL REINFORCEMENT FOR PIPE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN./LIN. FT.(BOTH WAYS).
4. ONE POUR MONOLITHIC BASE SECTION.
5. ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAW-CUTTING AND/OR CORING ONLY. NO JACKHAMMERS, HAMMERS AND CHISELS OR PNEUMATIC TOOLS WILL BE ALLOWED.
6. STEPS SHALL CONFORM TO STD. 5.3.0 AND SHALL BE INSTALLED AT THE CASTING PLANT.
7. CORING: MAXIMUM CORE HOLE WILL BE PERMITTED FOR LESS THAN 24" DIA. (SEE STD. 4.7.2).
8. ALTERNATE TOP SLAB IS STEEL REINFORCED TO MEET OR EXCEED H-25 LOADING (SEE STD. 4.7.2).
9. ALTERNATE TOP SLAB IS ONLY FOR USE WHEN RISER/CONE SECTION DOES NOT FIT BECAUSE OF STRUCTURE DEPTH.
10. REFER TO STD. 5.2.0 FOR MAXIMUM PIPE SIZES.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
PRECAST 4'-0" ROUND MANHOLE
R.I. STANDARD 4.2.0
JUNE 15, 1998



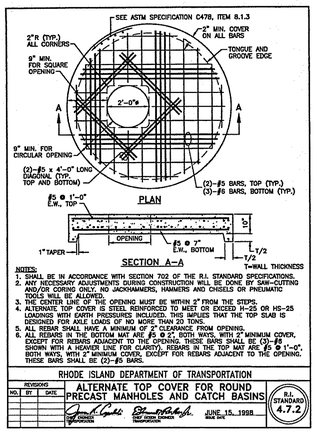
NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
2. CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED = 0.19 SQ. IN./LIN. FT. MINIMUM.
3. STEEL REINFORCEMENT FOR PIPE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN./LIN. FT.(BOTH WAYS).
4. ONE POUR MONOLITHIC BASE SECTION.
5. ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAW-CUTTING AND/OR CORING ONLY. NO JACKHAMMERS, HAMMERS AND CHISELS OR PNEUMATIC TOOLS WILL BE ALLOWED.
6. STEPS SHALL CONFORM TO STD. 5.3.0 AND SHALL BE INSTALLED AT THE CASTING PLANT.
7. CORING: MAXIMUM CORE HOLE WILL BE PERMITTED FOR LESS THAN 24" DIA. (SEE STD. 4.7.2).
8. ALTERNATE TOP SLAB IS STEEL REINFORCED TO MEET OR EXCEED H-25 LOADING (SEE STD. 4.7.2).
9. ALTERNATE TOP SLAB IS ONLY FOR USE WHEN RISER/CONE SECTION DOES NOT FIT BECAUSE OF STRUCTURE DEPTH.
10. REFER TO STD. 5.2.0 FOR MAXIMUM PIPE SIZES.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
PRECAST 4'-0" ROUND MANHOLE
R.I. STANDARD 4.2.0
JUNE 15, 1998



NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
2. STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN./LIN. FT.(BOTH WAYS).
3. STEPS SHALL CONFORM TO STD. 5.3.0 AND SHALL BE INSTALLED AT THE CASTING PLANT.
4. ONE POUR MONOLITHIC BASE SECTION.
5. ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAW-CUTTING AND/OR CORING ONLY. NO JACKHAMMERS, HAMMERS AND CHISELS OR PNEUMATIC TOOLS WILL BE ALLOWED.
6. CORING: MAXIMUM CORE HOLE WILL BE PERMITTED FOR LESS THAN 24" DIA. (SEE STD. 4.7.2).
7. ALTERNATE TOP SLAB IS STEEL REINFORCED TO MEET OR EXCEED H-25 LOADING (SEE STD. 4.7.2).
8. ALTERNATE TOP SLAB IS ONLY FOR USE WHEN RISER/CONE SECTION DOES NOT FIT BECAUSE OF STRUCTURE DEPTH.
9. REFER TO STD. 5.2.0 FOR MAXIMUM PIPE SIZES.
10. PROVIDE SQUARE CATCH BASIN FRAME & GRATE ON ALL CATCH BASINS.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
PRECAST 4'-0", 5'-0", OR 6'-0" ROUND CATCH BASIN
R.I. STANDARD 4.4.0M
JUNE 15, 1998

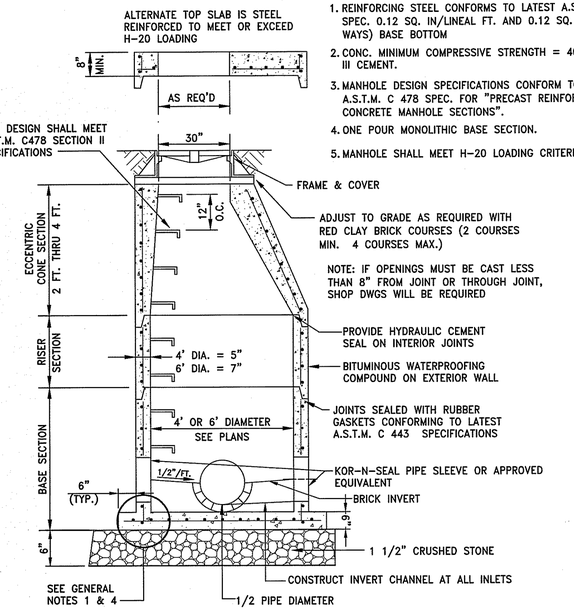


NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
2. ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAW-CUTTING AND/OR CORING ONLY. NO JACKHAMMERS, HAMMERS AND CHISELS OR PNEUMATIC TOOLS WILL BE ALLOWED.
3. THE CENTER LINE OF THE OPENING MUST BE WITHIN 2" FROM THE STEPS.
4. ALTERNATE TOP COVER IS STEEL REINFORCED TO MEET OR EXCEED H-25 OR HS-25 LOADINGS WITH EARTH PRESSURES INCLUDED. THIS IMPLIES THAT THE TOP SLAB IS DESIGNED FOR AXLE LOADS OF NO MORE THAN 20 TONS.
5. ALL REBAR SHALL HAVE A MINIMUM OF 2" CLEARANCE FROM OPENING.
6. ALL REBARS IN THE BOTTOM MAT ARE TO BE CONTINUOUS, BOTH WAYS, WITH 2" MINIMUM COVER. THESE BARS SHALL BE (2)-#5 BARS, TOP (TYP.) AND (3)-#6 BARS, BOTTOM (TYP.) AS SHOWN WITH A HOOKED LINE FOR CLARITY. REBARS IN THE TOP MAT ARE #5 @ 1'-0", BOTH WAYS, WITH 2" MINIMUM COVER, EXCEPT FOR REBARS ADJACENT TO THE OPENING. THESE BARS SHALL BE (2)-#5 BARS.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
ALTERNATE TOP COVER FOR ROUND PRECAST MANHOLES AND CATCH BASINS
R.I. STANDARD 4.7.2
JUNE 15, 1998

GENERAL NOTES:

1. REINFORCING STEEL CONFORMS TO LATEST A.S.T.M. A 185 SPEC. 0.12 SQ. IN/LINEAL FT. AND 0.12 SQ. IN. (BOTH WAYS) BASE BOTTOM
2. CONC. MINIMUM COMPRESSIVE STRENGTH = 4000 PSI TYPE III CEMENT.
3. MANHOLE DESIGN SPECIFICATIONS CONFORM TO LATEST A.S.T.M. C 478 SPEC. FOR "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS".
4. ONE POUR MONOLITHIC BASE SECTION.
5. MANHOLE SHALL MEET H-20 LOADING CRITERIA.



TYPICAL SEWER MANHOLE DETAIL

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 MAR 2 9 2017 FILE # 16-0291
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

PARE
PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
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UNIVERSITY OF RHODE ISLAND
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BROOKSIDE APARTMENTS
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Assessor's Plat 154, Lot 7
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DAVID L. POTTER
No. 8665
2.17.17
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:		
1	2-17-17	RIDEM COMMENTS

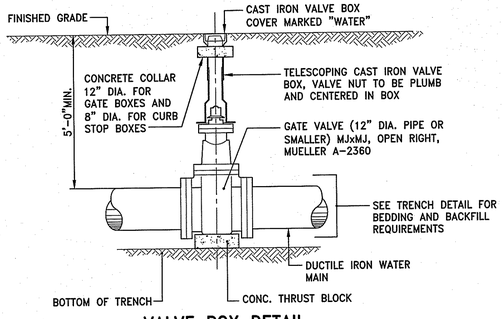
PROJECT NO.:	15180.01
DATE:	NOVEMBER 18, 2016
SCALE:	NOT TO SCALE
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:

DETAILS 4

DRAWING NO.: C7-04

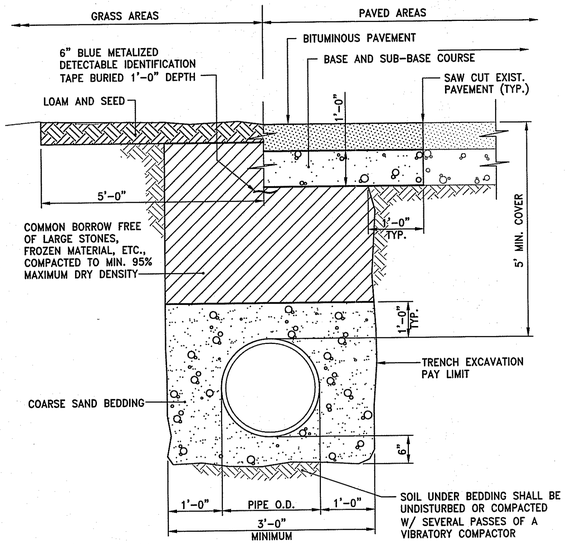
SHEET NO. 28 OF 42



VALVE BOX DETAIL

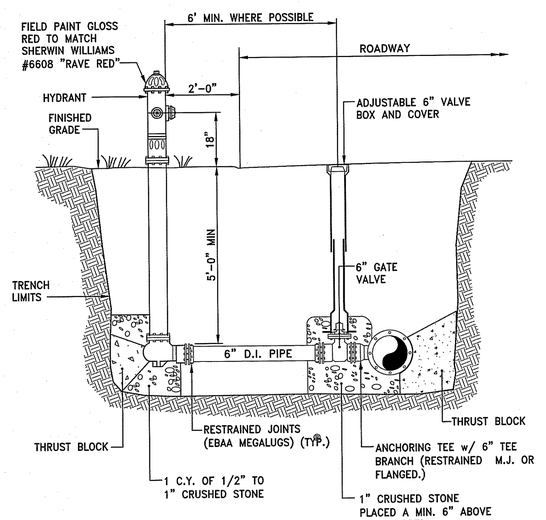
NOT TO SCALE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 2 9 2017 FILE # 16-0291
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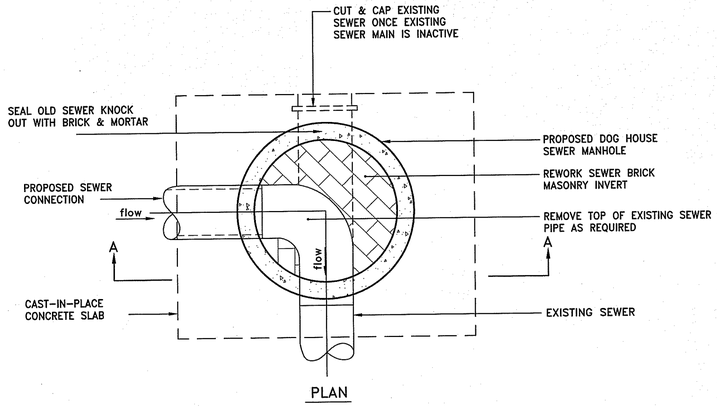
TYPICAL WATER MAIN TRENCH DETAIL

NOT TO SCALE

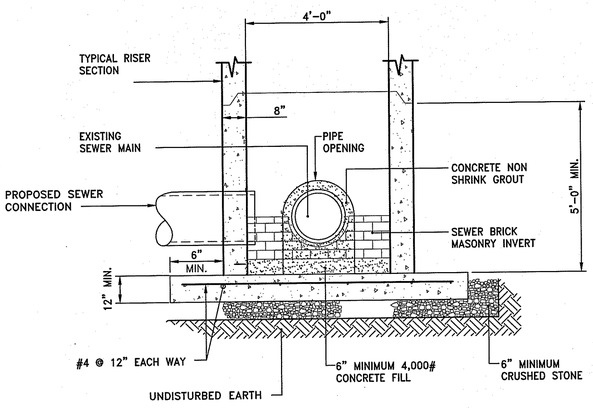


HYD **HYDRANT DETAIL**

NOT TO SCALE



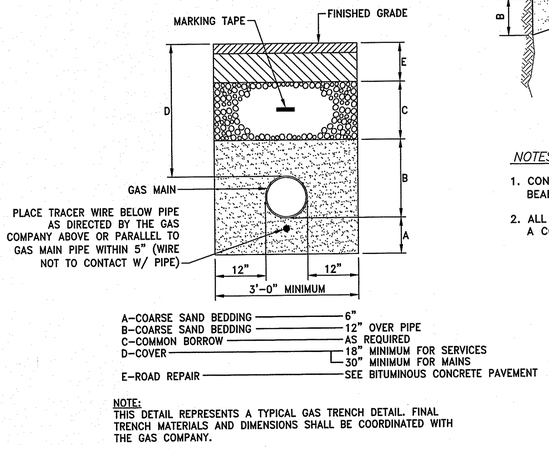
PLAN



SECTION A-A

DOG-HOUSE MANHOLE BASE

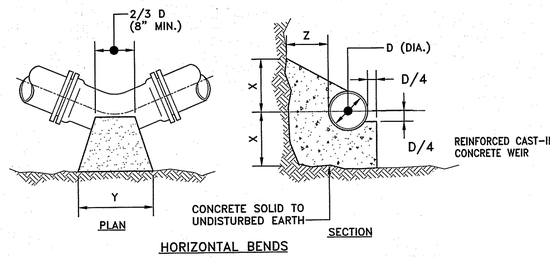
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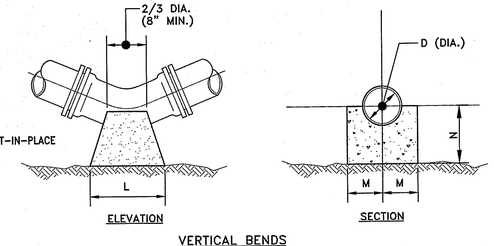
NOTE:
THIS DETAIL REPRESENTS A TYPICAL GAS TRENCH DETAIL. FINAL TRENCH MATERIALS AND DIMENSIONS SHALL BE COORDINATED WITH THE GAS COMPANY.

TYPICAL GAS MAIN TRENCH DETAIL

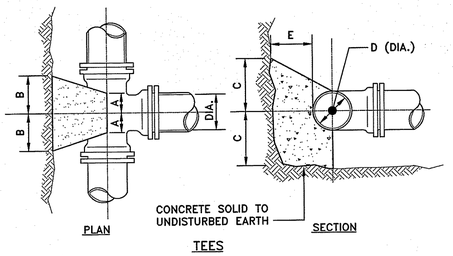
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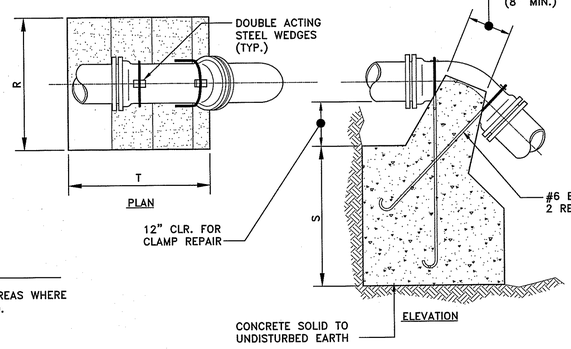
HORIZONTAL BENDS



VERTICAL BENDS



TEES



CONC. ANCHORAGE

NOTES:

1. CONCRETE THRUST BLOCKS SHALL BEAR AGAINST UNDISTURBED EARTH. IN AREAS WHERE BEARINGS SOILS HAVE BEEN DISTURBED, RESTRAINED JOINTS SHALL BE USED.
2. ALL FORCE MAIN BENDS, TEES, MAIN TAPS, AND END CAPS SHALL REQUIRE A CONCRETE THRUST BLOCK.

TEES						
		PIPE SIZE-D (DIA.)				
		6"	8"	12"	16"	20"
A		8"	10"	1'-0"	1'-3"	1'-6"
B		8"	10"	1'-2"	1'-4"	1'-6"
C		10"	1'-0"	1'-3"	1'-6"	1'-8"
E		8"	10"	1'-2"	1'-6"	1'-10"

HORTIZONTAL BENDS						
BEND		PIPE SIZE-D (DIA.)				
		6"	8"	12"	16"	20"
1/8	X	1'-0"	1'-0"	1'-0"	1'-3"	1'-6"
	Y	1'-0"	1'-6"	2'-0"	2'-6"	3'-0"
	Z	8"	10"	1'-2"	1'-4"	1'-6"
1/16	X	1'-0"	1'-0"	1'-0"	1'-3"	1'-6"
	Y	1'-0"	1'-4"	1'-6"	1'-9"	2'-6"
	Z	8"	10"	1'-2"	1'-4"	1'-6"
1/32	X	1'-0"	1'-0"	1'-0"	1'-2"	1'-4"
	Y	1'-0"	1'-0"	1'-2"	1'-4"	1'-6"
	Z	8"	10"	1'-2"	1'-4"	1'-6"

VERTICAL BENDS						
BEND		PIPE SIZE-D (DIA.)				
		6"	8"	12"	16"	20"
1/8	L	1'-3"	1'-8"	2'-6"	3'-6"	4'-8"
	M	7"	8"	11"	1'-4"	1'-6"
	N	7"	8"	11"	1'-4"	1'-6"
1/16	L	9"	1'-0"	1'-9"	2'-6"	3'-0"
	M	7"	7"	10"	1'-0"	1'-2"
	N	7"	7"	8"	10"	1'-0"
1/32	L	6"	8"	1'-0"	1'-4"	1'-9"
	M	7"	7"	10"	1'-0"	1'-2"
	N	7"	7"	8"	10"	1'-0"

ANCHORAGES						
BEND		PIPE SIZE-D (DIA.)				
		6"	8"	12"	16"	20"
1/8	R	2'-6"	3'-0"	4'-6"	5'-4"	6'-0"
	S	2'-6"	2'-9"	3'-6"	2'-6"	5'-6"
	T	3'-0"	4'-0"	4'-9"	7'-0"	9'-6"
1/16	R	2'-0"	2'-8"	4'-0"	4'-8"	5'-0"
	S	1'-9"	2'-3"	2'-6"	3'-2"	3'-8"
	T	2'-6"	3'-4"	4'-0"	6'-0"	8'-6"
1/32	R	1'-6"	2'-0"	3'-0"	3'-8"	4'-3"
	S	1'-3"	1'-9"	2'-0"	2'-4"	2'-6"
	T	2'-0"	2'-6"	3'-0"	4'-6"	5'-9"

CONCRETE THRUST BLOCKS

NOT TO SCALE

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401-334-4100

OWNER/APPLICANT:

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

BROOKSIDE APARTMENTS
UNIVERSITY OF RHODE ISLAND

Assessor's Plat 15-4, Lot 7
West Alumni Avenue
Kingston, RI

DAVID L. POTTER
No. 8665
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
2.17.17

REVISIONS:		
1	2-17-17	RIDEM COMMENTS

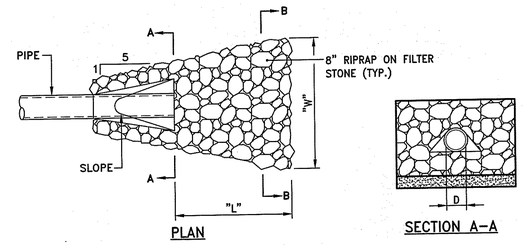
PROJECT NO.:	15180.01
DATE:	NOVEMBER 18, 2016
SCALE:	NOT TO SCALE
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:

DETAILS 5

DRAWING NO.: C7-05

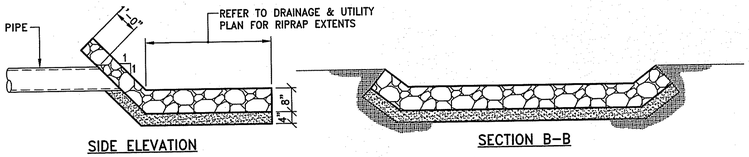
SHEET NO. 29 OF 42



PLAN

SECTION A–A

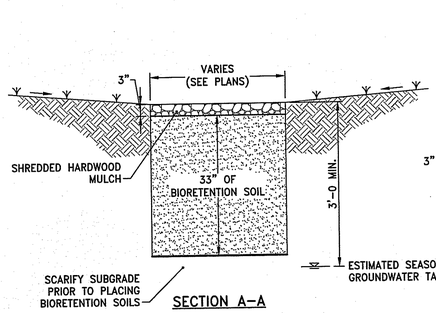
BIO	1	2
(A)	115.00	115.10
(B)	115.50	115.60
(C)	116.50	116.30
(D)	114.27	113.72
(E)	110.15	112.05
(F)	116.15	116.10



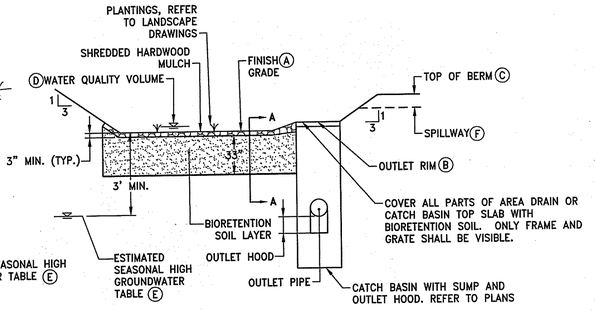
SIDE ELEVATION

SECTION B–B

RLS **RIPRAP LEVEL SPREADER**
NOT TO SCALE

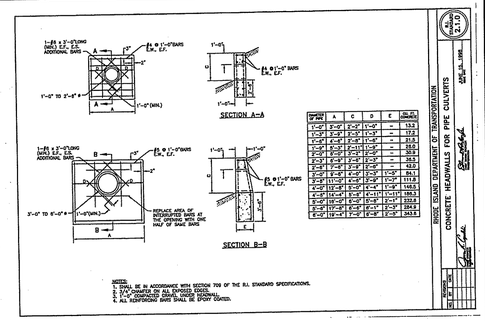


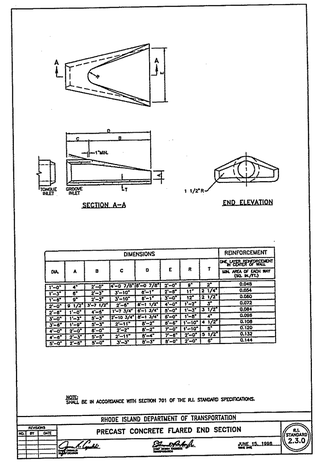
SECTION A–A

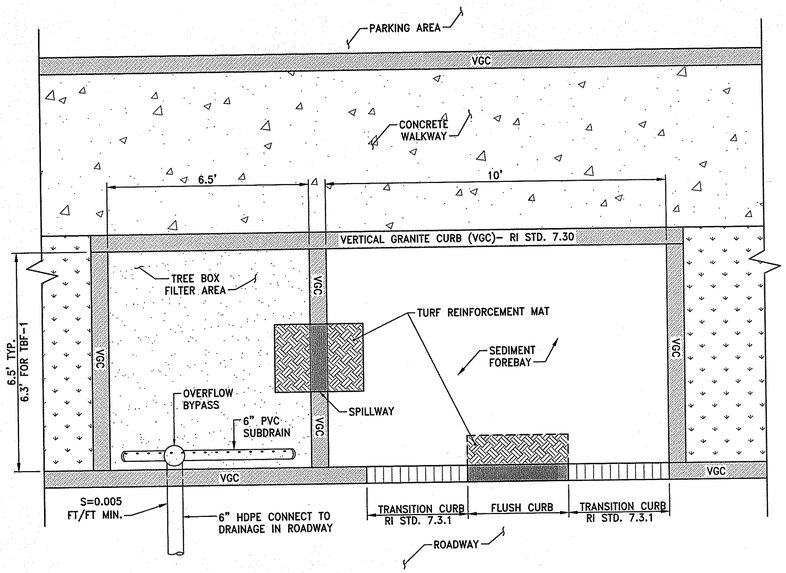


BIORETENTION SOIL: 85–88% SAND, 8–12% SILT, 3–5% COMPOST ORGANIC CONTENT SHALL BE 1.5%–3%

BIORETENTION DETAIL
NOT TO SCALE







PLAN VIEW FOR TBF'S 1–5 & 7
NOT TO SCALE

PROFILE VIEW
NOT TO SCALE

NOTES:

1. DRAIN BASINS SHALL BE CUSTOM MANUFACTURED FOR THE PROJECT WITH THE INLETS AND OUTLETS REQUIRED.
2. DRAIN BASINS SHALL BE CONSTRUCTED OF HIGH DENSITY POLYETHYLENE

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	SUB*
TBF–1	116.30	115.30	116.10	115.30	111.30	116.10	113.20	111.55	Y
TBF–2	116.80	115.80	116.60	115.80	111.80	116.60	113.90	111.85	Y
TBF–3	115.30	114.30	115.10	114.30	110.30	115.10	109.45	112.85	N
TBF–4	115.50	114.50	115.30	114.50	110.50	115.30	110.85	110.90	N
TBF–5	113.20	112.20	113.00	112.20	108.20	113.00	111.60	108.45	Y
TBF–6	115.70	114.70	115.50	114.70	110.70	115.50	109.65	113.45	N
TBF–7	115.75	114.75	115.55	114.75	110.75	115.55	109.65	112.70	N

*SUB = SUBDRAIN. ALL TREE BOX FILTERS WITH A SUBDRAIN SHALL ALSO BE LINED WITH 30 MIL POLYETHYLENE BARRIER

PLAN VIEW FOR TBF–6
NOT TO SCALE

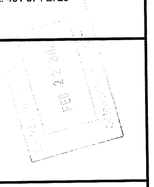
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 29 2017 FILE # 16-0291
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

TREE BOX FILTER PLAN & PROFILE

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401-334-4100

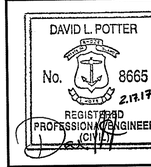
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BROOKSIDE APARTMENTS
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Kingston, RI



REVISIONS:

1	2-17-17	RIDEM COMMENTS

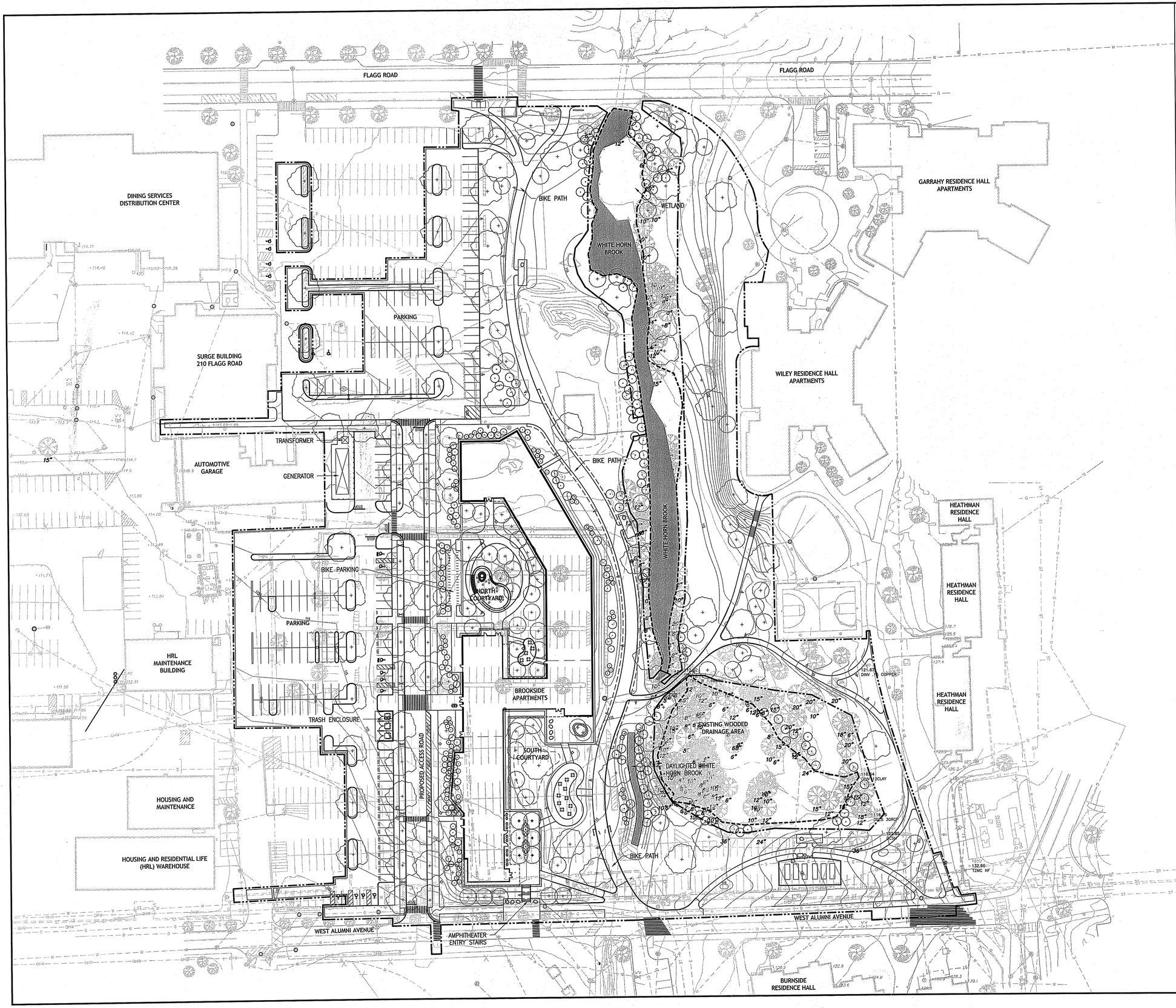
PROJECT NO.:	15180.01
DATE:	NOVEMBER 18, 2016
SCALE:	NOT TO SCALE
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:

DETAILS 6

DRAWING NO.: C7-06

SHEET NO. 30 OF 42



LEGEND

PROJECT LIMIT OF DISTURBANCE (LOD)

PLANTING LIMIT OF DISTURBANCE (LOD)

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

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

0' 50' 100'
SCALE: 1" = 50'-0"

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TEL: 401-874-2725

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64 PLEASANT STREET WATERTOWN MA 02472 USA
P 617 926 3500 F 617 924 2748 W SASAKI.COM

BROOKSIDE APARTMENTS
UNIVERSITY OF RHODE ISLAND

Assessor's Plat 15-4, Lot 7
West Alumni Avenue
Kingston, RI

Mark O. Dawson
No. 350
LANDSCAPE ARCHITECT
02.17.2017

REVISIONS:

1	2-17-17	RIDEM COMMENTS

PROJECT NO.:	SA 56173.00
DATE:	NOVEMBER 18, 2016
SCALE:	1" = 50'-0"
DESIGNED BY:	CB
CHECKED BY:	EH
DRAWN BY:	JM, RM, SW, WW
APPROVED BY:	MOD

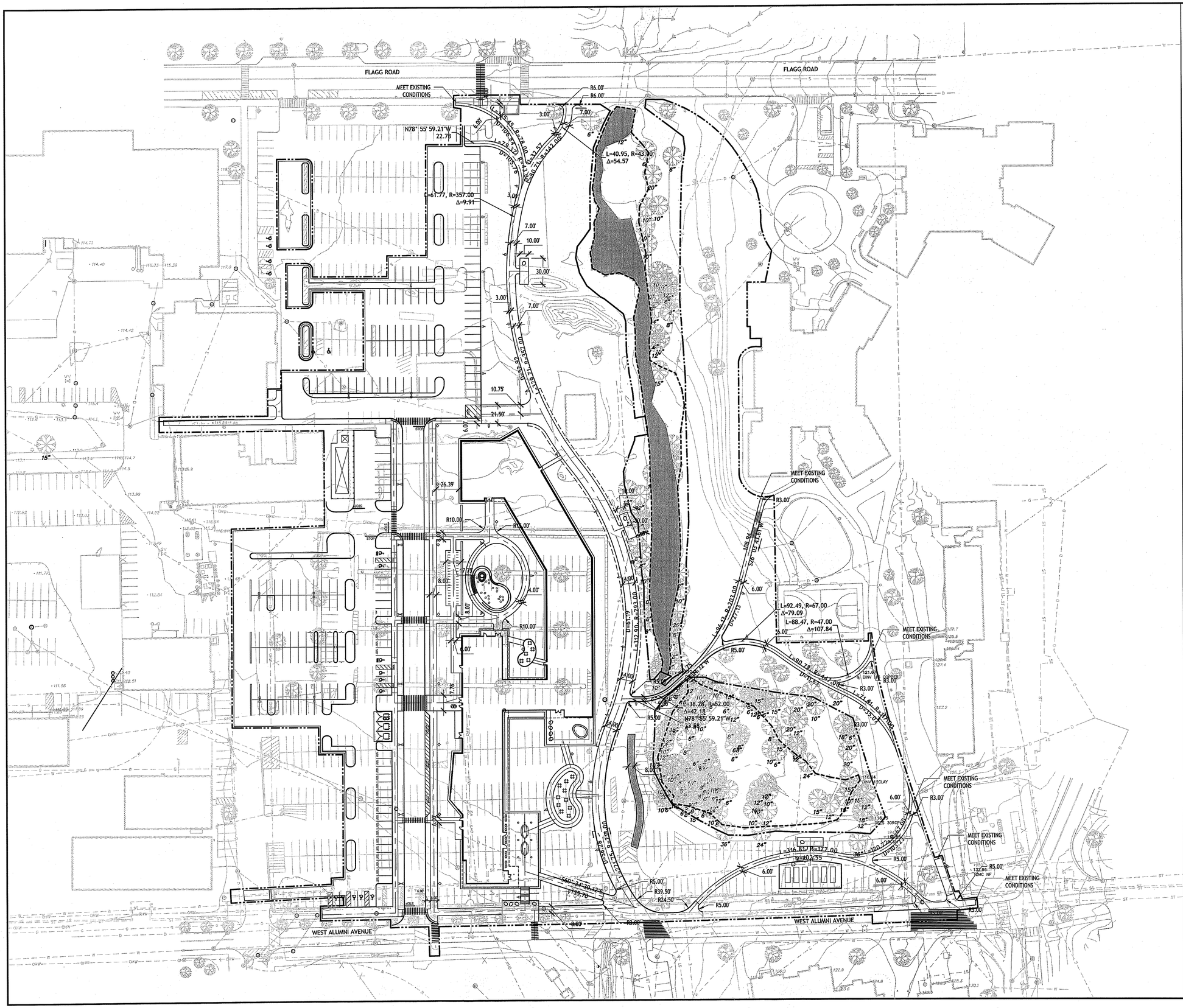
DRAWING TITLE:

SITE PLAN

DRAWING NO.:

L 1-00

SHEET NO. 31 OF 42



LEGEND

PROJECT LIMIT OF DISTURBANCE (LOD)

PLANTING LIMIT OF DISTURBANCE (LOD)

SYMBOLS	DESCRIPTION
PT	POINT OF TANGENCY
POE	POINT OF END
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
EOP	EDGE OF PAVING
FOC	FACE OF CURB
PRC	POINT OF REVERSE CURVATURE
N01°16'44"E 694.56'	BEARING DISTANCE
	PT/PC

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N

0' 50' 100'
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Assessor's Plat 15-4, Lot 7
West Alumni Avenue
Kingston, RI

Mark O. Dawson
No. 350
REGISTERED LANDSCAPE ARCHITECT
02.17.2017

REVISIONS:		
1	2-17-17	RIDEM COMMENTS

PROJECT NO.:	SA 56173.00
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SCALE:	1" = 50'-0"
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DRAWN BY:	JM, RM, SW, WW
APPROVED BY:	MOD

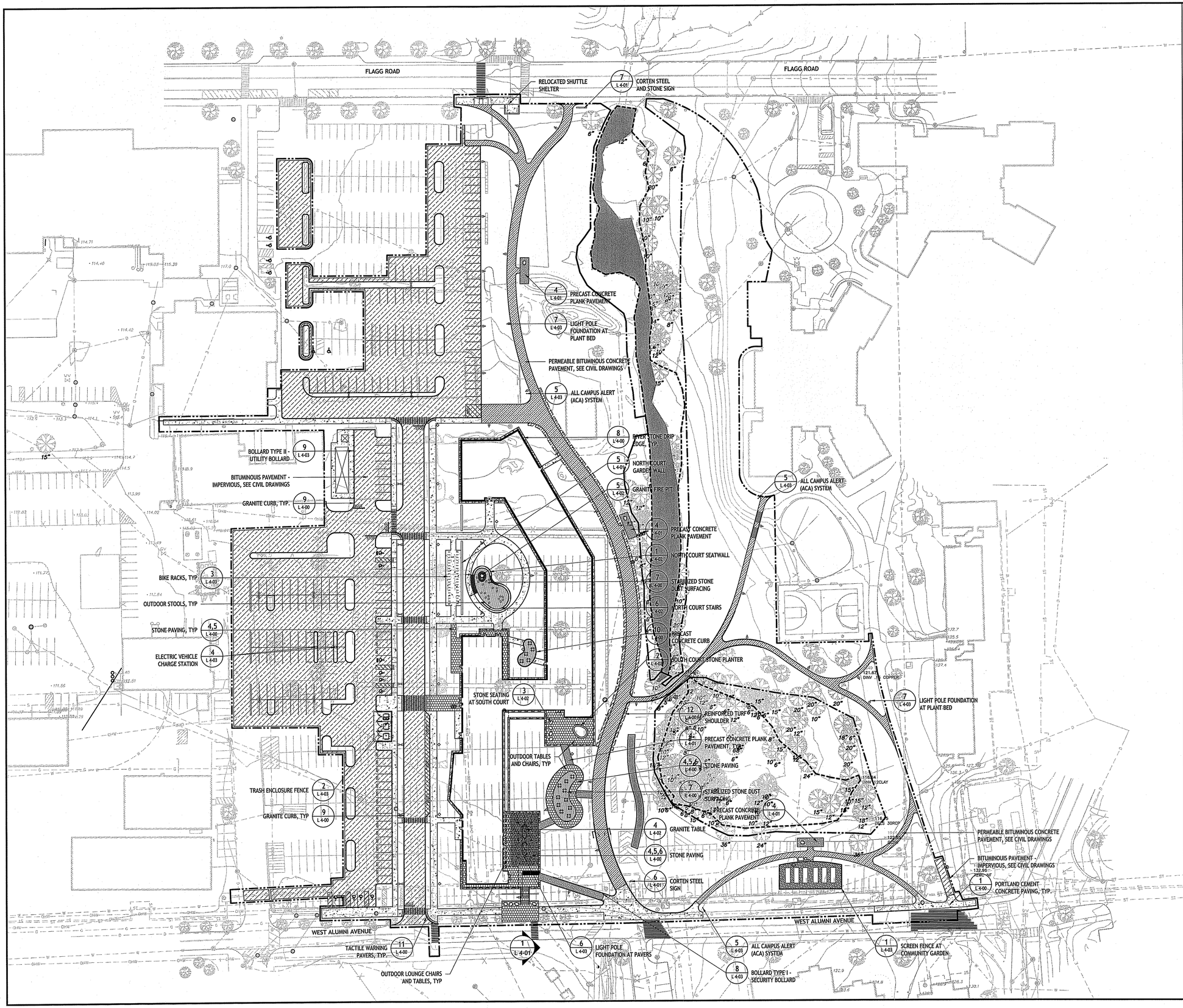
DRAWING TITLE:

LAYOUT PLAN

DRAWING NO.:

L 1-01

SHEET NO. 32 OF 42



LEGEND

PROJECT LIMIT OF DISTURBANCE (LOD)

PLANTING LIMIT OF DISTURBANCE (LOD)

SYMBOLS	DESCRIPTION
	BITUMINOUS PAVEMENT - IMPERVIOUS - SEE CIVIL, TYP.
	BITUMINOUS PAVEMENT - PERVIOUS - SEE CIVIL, TYP.
	STABILIZED STONE DUST PAVEMENT, TYP.
	RIVER STONE DRIP EDGE, TYP.
	GRANITE COBBLE PAVEMENT, TYP.
	2,000 CUBIC FEET OF STRUCTURAL SOIL BELOW PAVING
	CAST-IN-PLACE CONCRETE PAVEMENT, TYP.
	HARDWOOD MULCH, TYP.
	REINFORCED TURF GRASS - SEED (SEE SPECIFICATIONS)

MATERIALS PLAN NOTES:

1. AT PORTLAND CEMENT CONCRETE PAVING, PROVIDE SAW-CUT SCORE JOINTS EVERY 4'-0" AND EXPANSION JOINTS EVERY 28'-0".

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OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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DATED MAR 29 2017 FILE # 16-0291
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401-334-4100

OWNER/APPLICANT:

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Kingston, RI

Mark O. Dawson No. 350 REGISTERED LANDSCAPE ARCHITECT
02.17.2017

REVISIONS:

1	2-17-17	RIDEM COMMENTS

PROJECT NO.:	SA 56173.00
DATE:	NOVEMBER 18, 2016
SCALE:	1" = 50'-0"
DESIGNED BY:	CB
CHECKED BY:	EH
DRAWN BY:	JM, RM, SW, WW
APPROVED BY:	MOD

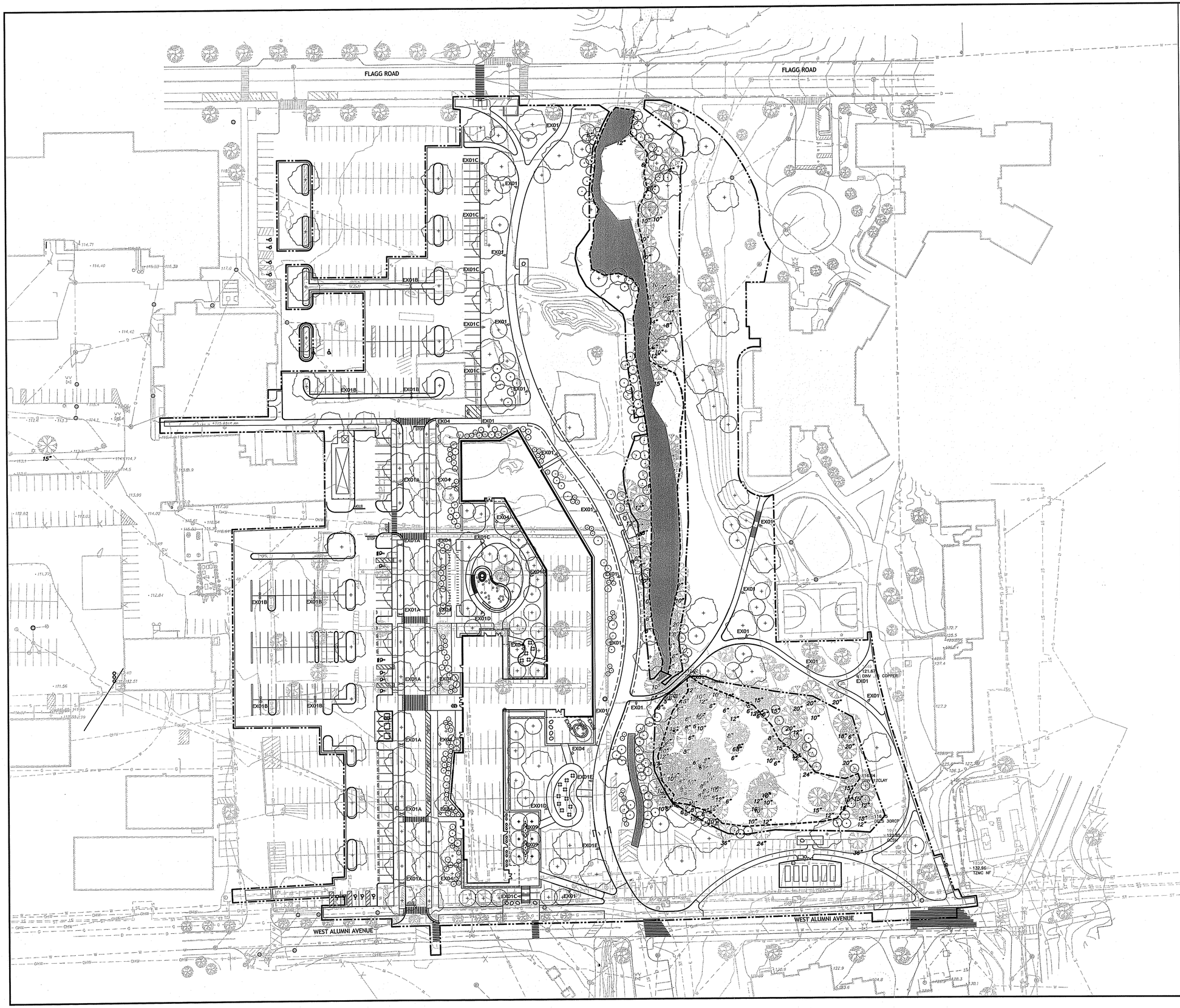
DRAWING TITLE:

MATERIALS PLAN

DRAWING NO.:

L 1-02

SHEET NO. 33 OF 42



LEGEND

PROJECT LIMIT OF DISTURBANCE (LOD)

PLANTING LIMIT OF DISTURBANCE (LOD)

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N

0' 50' 100'
SCALE: 1" = 50'-0"

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No. 350
LANDSCAPE ARCHITECT
02.17.2017

REVISIONS:

1	2-17-17	RIDEM COMMENTS

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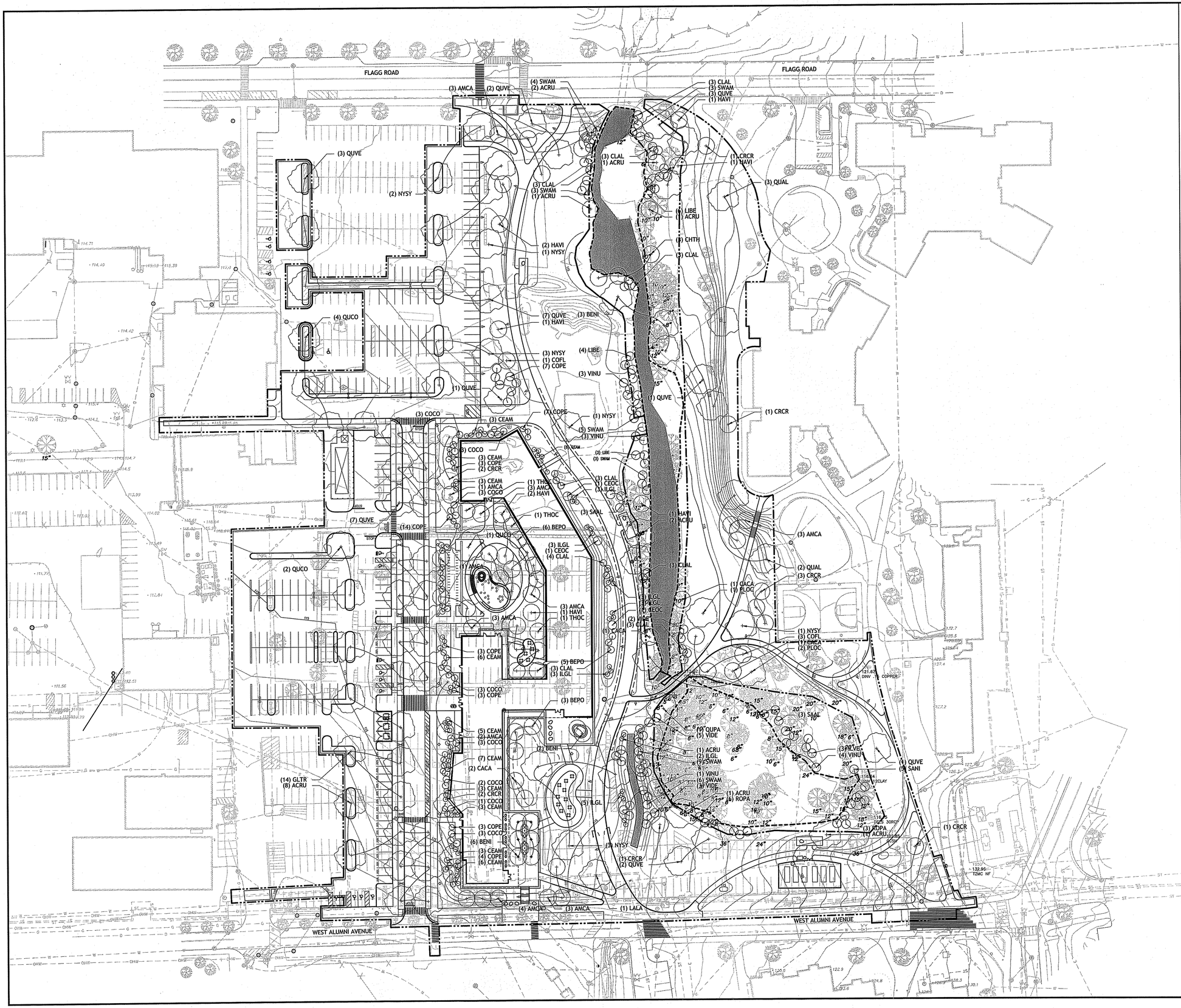
DRAWING TITLE:

LIGHTING PLAN

DRAWING NO.:

L 1-03

SHEET NO. 34 OF 42



LEGEND

PLANTING LIMIT OF DISTURBANCE (LOD)

PLANTING LIMIT OF DISTURBANCE (LOD)

SYMBOLS	DESCRIPTION
+	PROPOSED CANOPY TREE
+	PROPOSED UNDERSTORY TREE
+	PROPOSED SHRUB
	EXISTING TREE

PLANTING PLAN NOTES:

1. SEE PLANTING SCHEDULE ON SHEET L6-00 FOR SPECIES.
2. THE "PROJECT LOD" IS THE LIMIT OF DISTURBANCE WITHIN WHICH PROJECT CONSTRUCTION WILL OCCUR. ROJECT CONSTRUCTION INCLUDES ALL DEMOLITION, EARTH WORK, CONSTRUCTION, RECONSTRUCTION, AND OTHER PROJECT RELATED ACTIVITIES, INCLUDING THE MAJORITY OF THE PROPOSED BUFFER RESTORATION.
3. THE "PLANTING LOD" IS THE AREA BETWEEN THE PROJECT LOD AND THE EDGE OF BIOLOGICAL WETLANDS WITHIN WHICH ADDITIONAL BUFFER RESTORATION PLANTINGS ARE PROPOSED.
4. EXCAVATION, SOIL AMENDMENT, AND BACKFILLING FOR INSTALLATION OF SMALL SHRUBS WITHIN THE PLANTING LOD SHALL BE PERFORMED BY HAND.
5. IF NECESSARY, EXCAVATION, SOIL AMENDMENT, AND BACKFILLING FOR INSTALLATION OF CANOPY TREES AND UNDERSTORY TREES WITHIN THE PROJECT LOD MAY BE PERFORMED USING MECHANICAL EQUIPMENT OPERATED FROM OUTSIDE OF THE PLANTING LOD.
6. MECHANICAL EXCAVATION AND BACKFILLING ADJACENT TO THE PLANTING LOD SHALL BE PERFORMED WITH CARE TO PREVENT DAMAGE TO ADJACENT BIOLOGICAL WETLANDS.
7. THE CONTRACTOR SHALL PROTECT EXISTING TREES AS INDICATED IN DRAWINGS AND SPECIFICATIONS.
8. EXISTING PLANTS SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS TO ORIGINAL GRADES BEFORE CONSTRUCTION.
9. THERE SHALL BE NO REMOVAL OF EXISTING NATIVE VEGETATION FROM THE AREAS WITHIN BIOLOGICAL WETLANDS.
10. THE CONTRACTOR SHALL LOCATE AND MARK ALL EXISTING AND PROPOSED UTILITIES TO VERIFY PROPOSED TREE LOCATIONS, AND SHALL REPORT ANY CONFLICTS TO THE ARCHITECT TO DETERMINE ALTERNATE PLANTING LOCATIONS.
11. ALL PLANTING LOCATIONS AND PLANT BED EDGES SHALL BE STAKED AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO DIGGING PLANTING PITS.
12. IN THE EVENT OF A DISCREPANCY IN PLANT MATERIAL QUANTITIES BETWEEN THE DRAWINGS AND PLANT LISTS, THE LARGER QUANTITY SHALL BE REQUIRED.
13. ALL NATIVE PLANTINGS SHALL BE SOURCED FROM LOCAL STOCK.
14. THE CONTRACTOR IS FULLY RESPONSIBLE FOR THE IMPLEMENTATION OF PLANTING MATERIALS PER SPECIFICATIONS. MAINTENANCE SHALL INCLUDE, BUT IS NOT LIMITED TO, WATERING DURING ESTABLISHMENT AND PERIODS OF STRESS, PRUNING, AND ESTABLISHMENT.
15. AFTER THE IMPLEMENTATION PERIOD DESCRIBED IN THE SPECIFICATIONS, ALL PLANT MATERIAL SHALL BE MAINTAINED BY URI, INCLUDING SEASONAL MOWING, MANAGEMENT OF INVASIVE SPECIES USING INTEGRATED PEST MANAGEMENT, ETC. PER THE BUFFER RESTORATION/INVASIVE SPECIES MANAGEMENT NARRATIVE.
16. SEE CIVIL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION. COORDINATE ALL WORK.

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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

SASAKI
64 PLEASANT STREET WATERTOWN MA 02472 USA
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BROOKSIDE APARTMENTS
UNIVERSITY OF RHODE ISLAND

Assessor's Plat 15-4, Lot 7
West Alumni Avenue
Kingston, RI

Mark O. Dawson
No. 350
LANDSCAPE ARCHITECT
02.17.2017

REVISIONS:

1	2-17-17	RIDEM COMMENTS

PROJECT NO.:	SA 56173.00
DATE:	NOVEMBER 18, 2016
SCALE:	1" = 50'-0"
DESIGNED BY:	CB
CHECKED BY:	EH
DRAWN BY:	JM, RM, SW, WW
APPROVED BY:	MOD

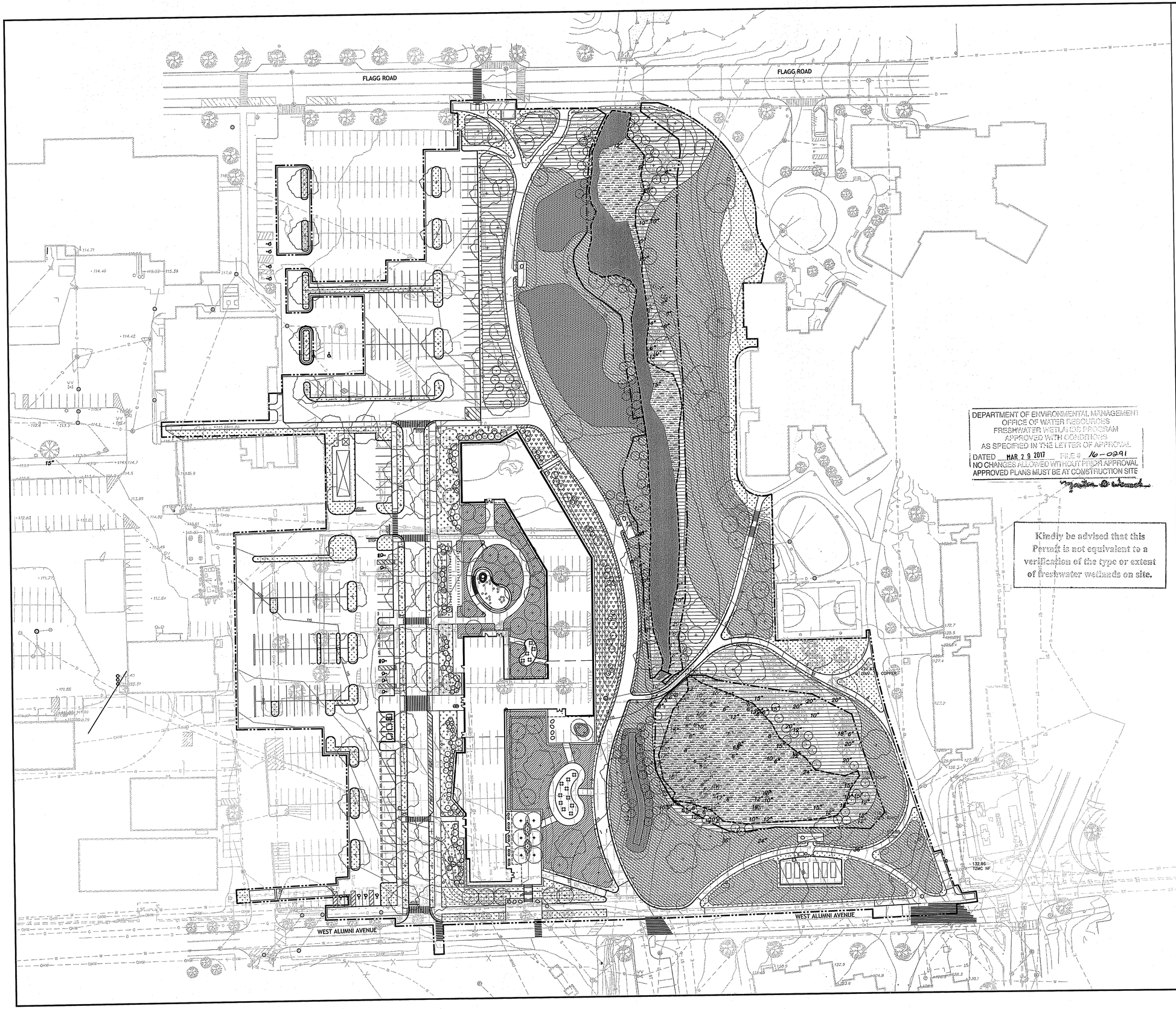
DRAWING TITLE:

TREE AND SHRUB PLANTING PLAN

DRAWING NO.:

L 1-04

SHEET NO. 35 OF 42



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 2 9 2017 FILE # 16-0291
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.

LEGEND

PROJECT LIMIT OF DISTURBANCE (LOD)

PLANTING LIMIT OF DISTURBANCE (LOD)

SYMBOLS	DESCRIPTION
	TURF GRASS - SEED
	REINFORCED TURF GRASS - SEED (SEE SPECIFICATIONS)
	NATIVE SHADE - SEED
	NATIVE WET MEADOW - SEED
	NATIVE MESIC MEADOW - SEED
	SUN MIX - GROUNDCOVER
	COURTYARD MIX - GROUNDCOVER
	DETENTION BASIN MIX - GROUNDCOVER
	WETLAND TO REMAIN UNDISTURBED

PLANTING PLAN NOTES:

1. SEE PLANTING SCHEDULE ON SHEET L5-00 FOR SPECIES.
2. THE "PROJECT LOD" IS THE LIMIT OF DISTURBANCE WITHIN WHICH PROJECT CONSTRUCTION WILL OCCUR. PROJECT CONSTRUCTION INCLUDES ALL DEMOLITION, EARTH WORK, CONSTRUCTION, RECONSTRUCTION, AND OTHER PROJECT RELATED ACTIVITIES, INCLUDING THE MAJORITY OF THE PROPOSED BUFFER RESTORATION.
3. THE "PLANTING LOD" IS THE AREA BETWEEN THE PROJECT LOD AND THE EDGE OF BIOLOGICAL WETLANDS WITHIN WHICH ADDITIONAL BUFFER RESTORATION PLANTINGS ARE PROPOSED.
4. EXCAVATION, SOIL AMENDMENT, AND BACKFILLING FOR INSTALLATION OF SMALL SHRUBS WITHIN THE PLANTING LOD SHALL BE PERFORMED BY HAND.
5. IF NECESSARY, EXCAVATION, SOIL AMENDMENT, AND BACKFILLING FOR INSTALLATION OF CANOPY TREES AND UNDERSTORY TREES WITHIN THE PROJECT LOD MAY BE PERFORMED USING MECHANICAL EQUIPMENT OPERATED FROM OUTSIDE OF THE PLANTING LOD.
6. MECHANICAL EXCAVATION AND BACKFILLING ADJACENT TO THE PLANTING LOD SHALL BE PERFORMED WITH CARE TO PREVENT DAMAGE TO ADJACENT BIOLOGICAL WETLANDS.
7. THE CONTRACTOR SHALL PROTECT EXISTING TREES AS INDICATED IN DRAWINGS AND SPECIFICATIONS.
8. EXISTING PLANTS SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS TO ORIGINAL GRADES BEFORE CONSTRUCTION.
9. THERE SHALL BE NO REMOVAL OF EXISTING NATIVE VEGETATION FROM THE AREAS WITHIN BIOLOGICAL WETLANDS.
10. THE CONTRACTOR SHALL LOCATE AND MARK ALL EXISTING AND PROPOSED UTILITIES TO VERIFY PROPOSED TREE LOCATIONS, AND SHALL REPORT ANY CONFLICTS TO THE ARCHITECT TO DETERMINE ALTERNATE PLANTING LOCATIONS.
11. ALL PLANTING LOCATIONS AND PLANT BED EDGES SHALL BE STAKED AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO DIGGING PLANTING PITS.
12. IN THE EVENT OF A DISCREPANCY IN PLANT MATERIAL QUANTITIES BETWEEN THE DRAWINGS AND PLANT LISTS, THE LARGER QUANTITY SHALL BE REQUIRED.
13. ALL NATIVE PLANTINGS SHALL BE SOURCED FROM LOCAL STOCK.
14. THE CONTRACTOR IS FULLY RESPONSIBLE FOR THE IMPLEMENTATION OF PLANTING MATERIALS PER SPECIFICATIONS. MAINTENANCE SHALL INCLUDE, BUT IS NOT LIMITED TO, WATERING DURING ESTABLISHMENT AND PERIODS OF STRESS, PRUNING, AND ESTABLISHMENT.
15. AFTER THE IMPLEMENTATION PERIOD DESCRIBED IN THE SPECIFICATIONS, ALL PLANT MATERIAL SHALL BE MAINTAINED BY URI, INCLUDING SEASONAL MOWING, MANAGEMENT OF INVASIVE SPECIES USING INTEGRATED PEST MANAGEMENT, ETC. PER THE BUFFER RESTORATION/INVASIVE SPECIES MANAGEMENT NARRATIVE.
16. SEE CIVIL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION. COORDINATE ALL WORK.

N

0' 50' 100'
SCALE: 1" = 50'-0"

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Mark O. Dawson
No. 350
REGISTERED LANDSCAPE ARCHITECT
02.17.2017

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APPROVED BY:	MOD

DRAWING TITLE:

HERBACEOUS PLANTING PLAN

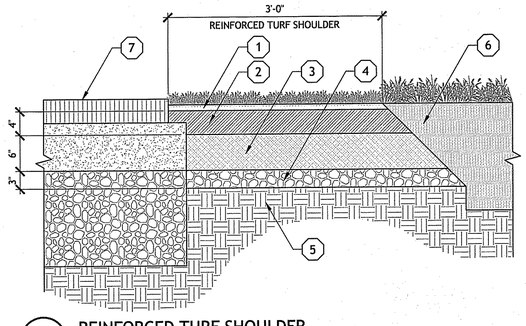
DRAWING NO.:

L 1-05

SHEET NO. 36 OF 42

LEGEND
1. REINFORCED TURF GRASS - SEED
2. GEOFIBERS ADDED INTO TOP 4" OF HIGH USE LAWN SOIL
3. SOIL AT PLANTING AREA
4. COMPACTED AGGREGATE BASE
5. COMPACTED OR UNDISTURBED SUBGRADE
6. ADJACENT VEGETATIVE PLANTING
7. ADJACENT BITUMINOUS PAVEMENT

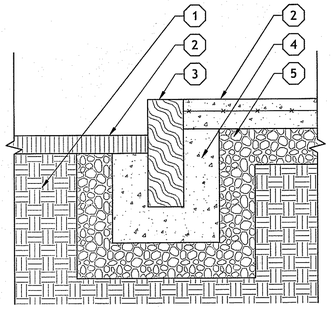
NOTES
A. REFER TO SPECIFICATIONS FOR SOD TYPE AND SOIL MIX BLEND.
B. REINFORCED TURF SHOULDER SHALL BE IMPLEMENTED ON BOTH SIDES OF THE EMERGENCY ACCESS DRIVE/BIKE PATH WEST OF BROOKSIDE APARTMENTS.



12 REINFORCED TURF SHOULDER
1"=1'-0"

LEGEND
1. GRANITE CURB, TYP
2. COMPACTED OR UNDISTURBED SUBGRADE
3. ADJACENT SURFACE MATERIAL, SEE PLANS
4. 6" CONCRETE SURROUND
5. COMPACTED AGGREGATE BASE

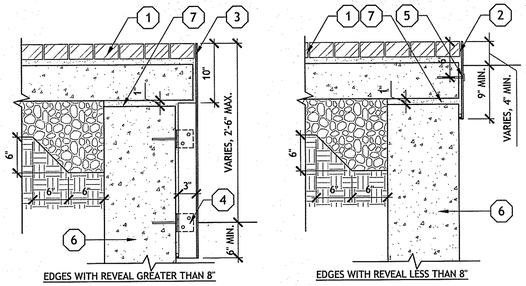
NOTES
A.



9 GRANITE CURB, TYP
1"=1'-0"

LEGEND
1. STONE PAVING, SEE 4/L4-00
2. CORTEN STEEL PLATE, ½" THICK
3. CORTEN STEEL PLATE, ½" THICK, BENT AT THE ENDS
4. STEEL ANGLE BRACKET
5. STEEL ANCHOR BOLT TO SECURE CORTEN STEEL TO CONCRETE. BOLTS @ 5' O.C.
6. REINFORCED CONCRETE WALL
7. MORTAR

NOTES
A.



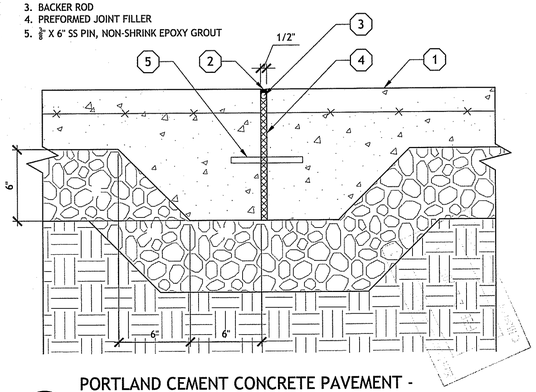
EDGES WITH REVEAL GREATER THAN 8"

EDGES WITH REVEAL LESS THAN 8"

6 STONE PAVING AT EDGE OF PLAZA
1"=1'-0"

LEGEND
1. PORTLAND CEMENT CONCRETE PAVEMENT, SEE 1/L4-00
2. SEALANT
3. BACKER ROD
4. PREFORMED JOINT FILLER
5. ¾" X 6" SS PIN, NON-SHRINK EPOXY GROUT

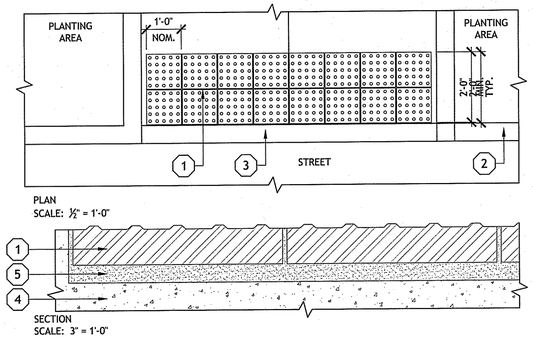
NOTES
A. SEE MATERIALS PLAN FOR EXPANSION JOINT LOCATIONS



3 PORTLAND CEMENT CONCRETE PAVEMENT - EXPANSION JOINT
2"=1'-0"

LEGEND
1. PRECAST CONCRETE DETECTABLE WARNING PAVER, TYP.
2. CURB, SEE PLANS FOR MATERIAL
3. FLUSH CURB
4. PORTLAND CEMENT CONCRETE PAVEMENT, SEE 1/L4-00
5. MORTAR SETTING BED

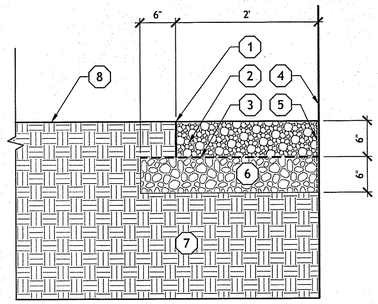
NOTES
A.



11 TACTILE WARNING PAVERS
1/2"=1'-0"

LEGEND
1. RIVER STONE DRIP EDGE, TYP
2. STEEL EDGING
3. FILTER FABRIC
4. BUILDING FACE
5. DRAINAGE BOARD
6. COMPACTED AGGREGATE BASE
7. COMPACTED OR UNDISTURBED SUBGRADE
8. ADJACENT PLANTING

NOTES
A.



8 RIVER STONE PAVING
1"=1'-0"

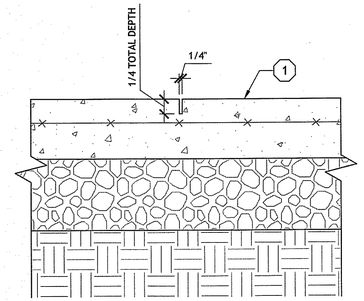
LEGEND
1. STONE PAVING, SEE 4/L4-00
2. EXPANSION JOINT WITH BACKER ROD & SEALANT
3. BUILDING FACE, SEE ARCHITECTURE DRAWINGS

NOTES
A.

5 STONE PAVING AT BUILDING FACE
1"=1'-0"

LEGEND
1. PORTLAND CEMENT CONCRETE PAVEMENT, SEE 1/L4-00

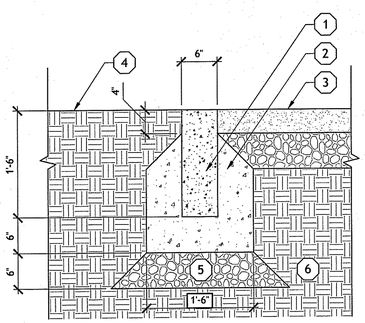
NOTES
A. SEE MATERIALS PLAN FOR CONTROL JOINT LOCATIONS



2 PORTLAND CEMENT CONCRETE PAVEMENT - CONTROL JOINT
2"=1'-0"

LEGEND
1. PRECAST CONCRETE CURB
2. 6" CONCRETE SURROUND
3. STABILIZED STONE DUST SURFACING, SEE 7/L4-00
4. ADJACENT SURFACE MATERIAL, SEE PLANS
5. COMPACTED AGGREGATE BASE
6. COMPACTED OR UNDISTURBED SUBGRADE

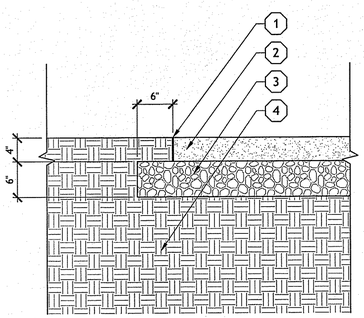
NOTES
A.



10 PRECAST CONCRETE CURB, TYP
1"=1'-0"

LEGEND
1. STABILIZED STONE DUST SURFACING
2. STEEL EDGING
3. COMPACTED AGGREGATE BASE
4. COMPACTED OR UNDISTURBED SUBGRADE

NOTES
A.

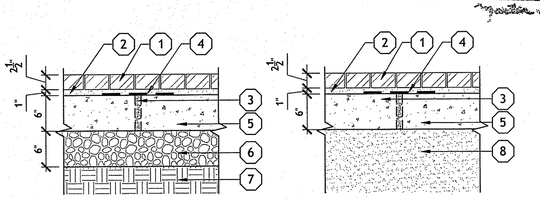


7 STABILIZED STONE DUST SURFACING
1"=1'-0"

LEGEND
1. 4" SQUARE GRANITE SETTS WITH ⅜" MORTAR JOINT
2. MORTAR SETTING BED
3. Ø1" WEEP HOLE, FILLED WITH PEA GRAVEL
4. 12"x12" NON-WOVEN GEOTEXTILE PLACED OVER WEEP HOLES
5. REINFORCED CAST-IN-PLACE CONCRETE SLAB
6. COMPACTED AGGREGATE BASE COURSE
7. COMPACTED OR UNDISTURBED SUBGRADE
8. CU-STRUCTURAL SOIL

NOTES
A.

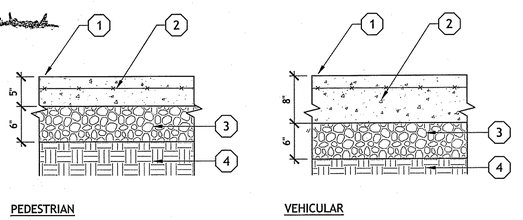
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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4 STONE PAVING, TYP.
1"=1'-0"

LEGEND
1. CAST-IN-PLACE CONCRETE PAVEMENT, TYP
2. #4 BARS @18" O.C. EACH WAY PROVIDE 180 HOOK ALL ENDS
3. COMPACTED AGGREGATE BASE
4. COMPACTED OR UNDISTURBED SUBGRADE

NOTES
A. SEE 2/L4-00 FOR PORTLAND CEMENT CONCRETE PAVEMENT CONTROL JOINTS.
B. SEE 3/L4-00 FOR PORTLAND CEMENT CONCRETE PAVEMENT EXPANSION JOINTS.



1 PORTLAND CEMENT CONCRETE PAVING, TYP
1"=1'-0"

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DRAWING TITLE:
LANDSCAPE DETAILS

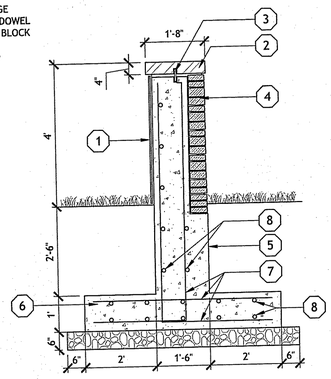
DRAWING NO.:
L 4-00
SHEET NO. 37 OF 42

LEGEND

1. 1/2" THICK PUNCHED CORTEN STEEL SIGN MOUNTED TO CONCRETE WALL. GRAPHIC TO BE DETERMINED
2. GRANITE WALL CAP WITH DRIP EDGE
3. 1/2"Ø x 6" LONG STAINLESS STEEL DOWEL SET IN NON-SHRINK GROUT, 2 PER BLOCK
4. GOSHEN STONE VENEER
5. REINFORCED CONCRETE WALL AND FOOTING
6. COMPACTED AGGREGATE BASE
7. #4 BARS AT 12" O.C.
8. #5 BAR

NOTES

A.



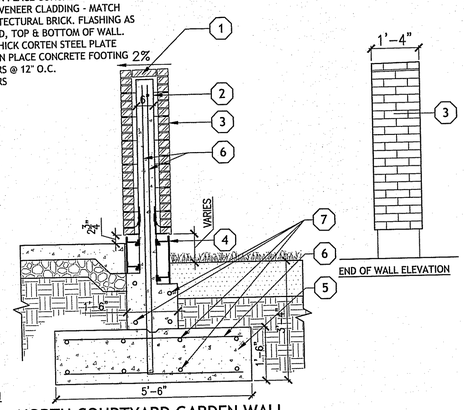
7 CORTEN STEEL AND STONE SIGN
1/2"=1'-0"

LEGEND

1. BRICK MASONRY COPING
2. CAST IN PLACE CONCRETE WALL
3. BRICK VENEER CLADDING - MATCH ARCHITECTURAL BRICK. FLASHING AS NEEDED, TOP & BOTTOM OF WALL.
4. 1/4" THICK CORTEN STEEL PLATE
5. CAST IN PLACE CONCRETE FOOTING
6. #4 BARS @ 12" O.C.
7. #5 BARS

NOTES

A.



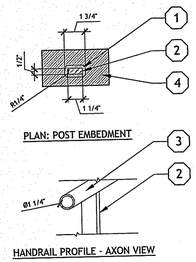
5 NORTH COURTYARD GARDEN WALL
1/2"=1'-0"

LEGEND

1. 1/4" NON-SHRINK GROUT TO PITCH AWAY FROM POST TO ALLOW DRAINAGE
2. STAINLESS STEEL BARSTOCK POST
3. STAINLESS STEEL HANDRAIL PIPE
4. ADJACENT PAVEMENT VARIES

NOTES

A. HOLE FOR RECTANGULAR BAR STOCK POST TO BE RECTANGULAR



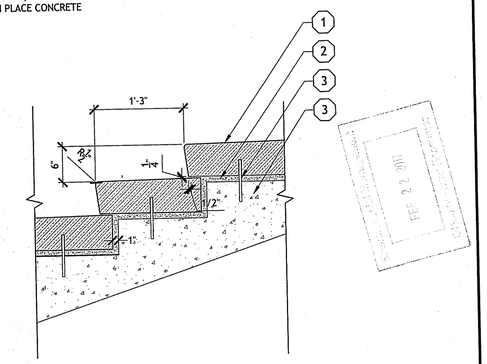
3 STAINLESS STEEL HANDRAIL
2"=1'-0"

LEGEND

1. GRANITE STAIR TREAD
2. 1" LATEX MODIFIED MORTAR SETTING BED, TYP.
3. 3/8" X 6" SS PIN, EPOXY GROUT
4. CAST IN PLACE CONCRETE

NOTES

A. ALL TREADS SHALL HAVE A 1% WASH



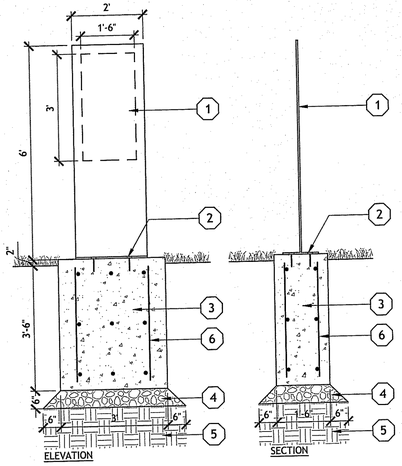
2 GRANITE STAIR TREAD
1"=1'-0"

LEGEND

1. 1/2" THICK PUNCHED CORTEN STEEL SIGN. GRAPHIC TO BE DETERMINED
2. COUNTER SUNK STEEL ANCHOR BOLT TO SECURE STEEL SUPPORT TO GRANITE BLOCK, SET IN NON-SHRINK GROUT
3. REINFORCED CONCRETE FOOTING
4. COMPACTED AGGREGATE BASE
5. COMPACTED OR UNDISTURBED SUBGRADE
6. REINFORCING SHALL BE #5 REBAR (ELEVATION - 9 HORIZONTAL BARS, 4 VERTICAL BARS AND SECTION VIEW - 5 HORIZONTAL BARS)

NOTES

A.



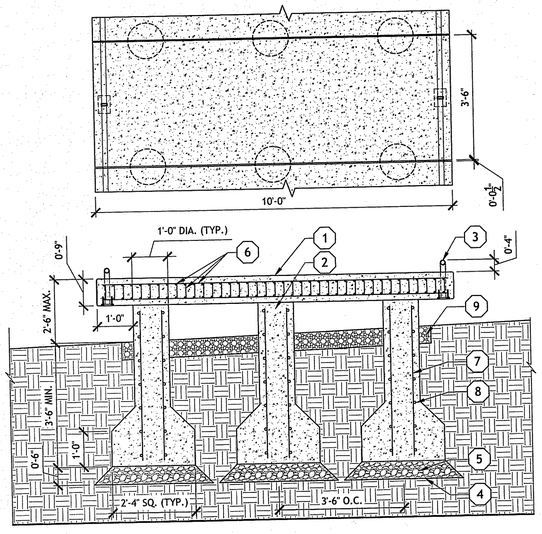
6 CORTEN STEEL SIGN
1/2"=1'-0"

LEGEND

1. REINFORCED PRECAST CONCRETE PLANK
2. CONCRETE FOOTING
3. 1½" O.D. SS PIPE
4. COMPACTED OR UNDISTURBED SUBGRADE
5. COMPACTED AGGREGATE BASE
6. #4 BARS @ 3" O.C. EACH WAY EACH FACE
7. 8 #4 BARS
8. #3 TIES AT 8" O.C.
9. CRUSHED STONE

NOTES

A.



4 PRECAST CONCRETE PLANK PAVEMENT
1/2"=1'-0"

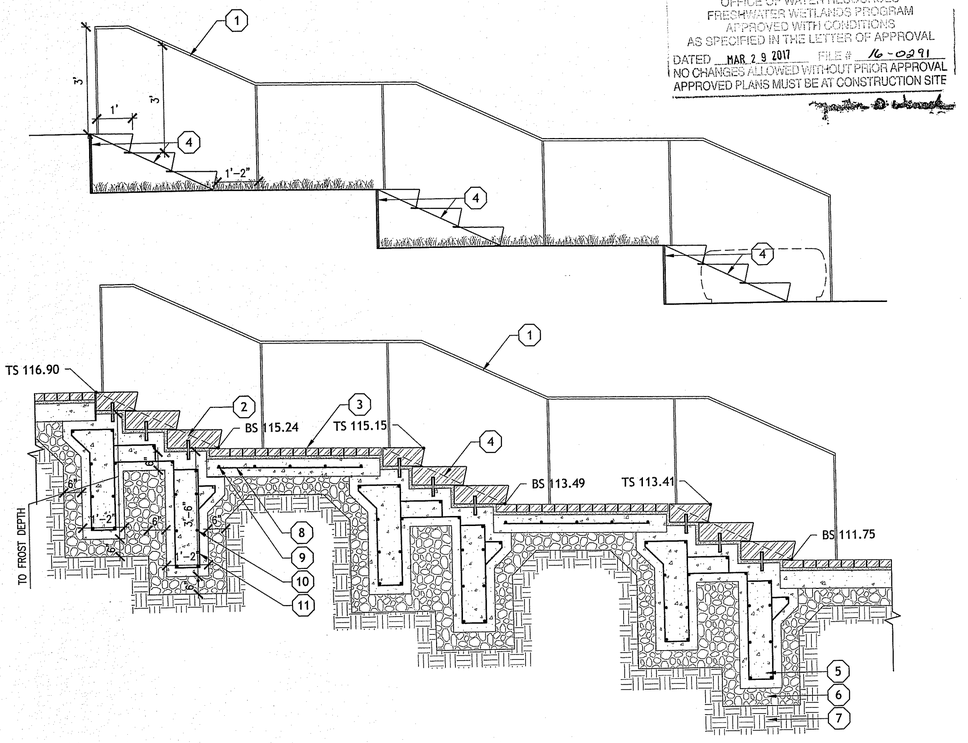
LEGEND

1. STAINLESS STEEL HANDRAIL, SEE DETAIL 3/L4-02
2. GRANITE STAIR TREAD, SEE DETAIL 2/L4-02
3. GRANITE COBBLE PAVING, SEE DETAIL 4/L4-00
4. 1/2" THICK CORTEN STEEL RETAINING WALL
5. CAST IN PLACE CONCRETE
6. COMPACTED AGGREGATE BASE
7. COMPACTED OR UNDISTURBED SUBGRADE
8. #5 BARS @12" O.C.
9. #5 BARS @12" O.C.
10. #5 BARS
11. #5 BARS @12" O.C.

NOTES

A. SEE CIVIL PLANS FOR GRADING, TYP.
B. CONCRETE FOOTINGS TO EXTEND TO FROST DEPTH. FOOTINGS TO BE COORDINATED WITH STEAM LINE AND OTHER UTILITIES, AS REQUIRED.
C. GROUT TO PITCH AWAY FROM RAILING TO ALLOW DRAINAGE AWAY FROM POST.
D. PROVIDE SHOP DRAWINGS FOR METAL HANDRAILS. INCLUDE EXPANSION JOINT IF NECESSARY.
E. E. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ARCHITECT'S APPROVAL.

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1 SOUTH ENTRY STAIR - SECTION
1/2"=1'-0"

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60 TOOTELL ROAD
KINGSTON, RHODE ISLAND
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64 PLEASANT STREET WATERTOWN MA 02472 USA
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BROOKSIDE APARTMENTS
UNIVERSITY OF RHODE ISLAND
Assessor's Plat 15-4, Lot 7
West Alumni Avenue
Kingston, RI

Mark O. Dawson
No. 350
LANDSCAPE ARCHITECT
02.17.2017

REVISIONS:

1	2-17-17	RIDEM COMMENTS

PROJECT NO.:	SA 56173.00
DATE:	NOVEMBER 18, 2016
SCALE:	AS NOTED
DESIGNED BY:	CB
CHECKED BY:	EH
DRAWN BY:	JM, RM, SW, WW
APPROVED BY:	MOD

DRAWING TITLE:

LANDSCAPE DETAILS

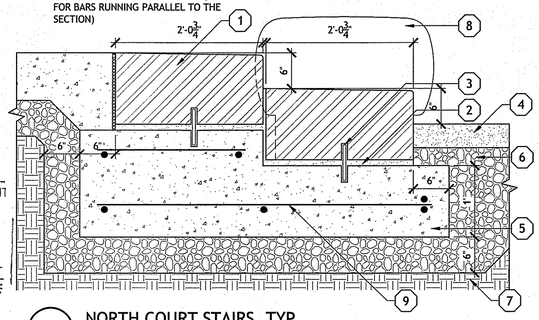
DRAWING NO.:

L 4-01

SHEET NO. 38 OF 42

LEGEND
1. CUSTOM GRANITE STAIR TREAD
2. MORTAR SETTING BED
3. 1/2"Ø X 6" LONG STAINLESS STEEL DOWEL SET IN NON-SHRINK GROUT, 2 PER BLOCK
4. STONE DUST SURFACING
5. REINFORCED CONCRETE SLAB
6. COMPACTED AGGREGATE BASE COURSE
7. COMPACTED OR UNDISTURBED SUBGRADE
8. CUSTOM GRANITE SEAT WALL (BEHIND)
9. REINFORCING SHALL BE #5 REBAR (12" O.C FOR BARS RUNNING PARALLEL TO THE SECTION)

NOTES
A.

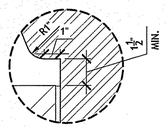


DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 2 9 2017 FILE # 16-029
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

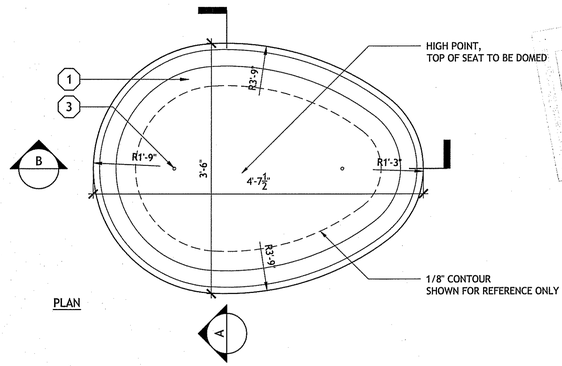
6 NORTH COURT STAIRS, TYP
1"=1'-0"

LEGEND
1. CUSTOM SOLID GRANITE SEAT
2. MORTAR SETTING BED
3. 1/2"Ø x 6" LONG STAINLESS STEEL DOWEL SET IN NON-SHRINK GROUT, 2 PER BENCH
4. GRANITE COBBLE PAVEMENT, SEE DETAILS
5. REINFORCED CONCRETE SLAB
6. COMPACTED AGGREGATE BASE COURSE
7. COMPACTED OR UNDISTURBED SUBGRADE

NOTES
A. TOP OF STONE SEAT TO BE DOMED.
B. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ARCHITECT'S APPROVAL.
C. SEALANT COLOR TO MATCH COLOR OF STONE AND BE APPROVED BY ARCHITECT.



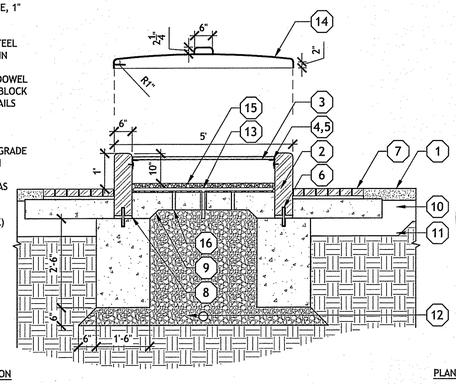
EDGE DETAIL



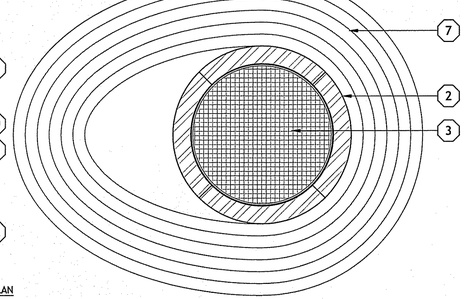
PLAN

LEGEND
1. STABILIZED STONE DUST PAVEMENT, SEE DETAILS
2. GRANITE BLOCK
3. REMOVABLE STAINLESS STEEL GRATE, 1" THICK
4. STAINLESS STEEL ANGLE SUPPORT
5. STEEL ANCHOR BOLT TO SECURE STEEL SUPPORT TO GRANITE BLOCK, SET IN NON-SHRINK GROUT
6. 1/2"Ø x 6" LONG STAINLESS STEEL DOWEL SET IN NON-SHRINK GROUT, 2 PER BLOCK
7. GRANITE COBBLE PAVERS, SEE DETAILS
8. MORTAR SETTING BED
9. REINFORCED CONCRETE SLAB
10. COMPACTED AGGREGATE BASE
11. COMPACTED OR UNDISTURBED SUBGRADE
12. 4"Ø PERFORATED PIPE UNDERDRAIN WRAPPED WITH FILTER FABRIC
13. CUSTOM GAS FIREPLACE INSERT, GAS LINE TO BE COORDINATED
14. LOCKABLE STAINLESS STEEL LID
15. 3" LAYER OF LAVA STONE (1" BLACK)
16. 1" WEEP HOLES, 4 TOTAL

NOTES
A. CONTRACTOR SHALL COORDINATE GAS CONNECTION FOR FIRE PIT.

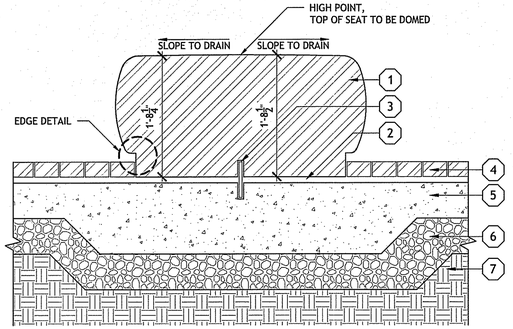


SECTION

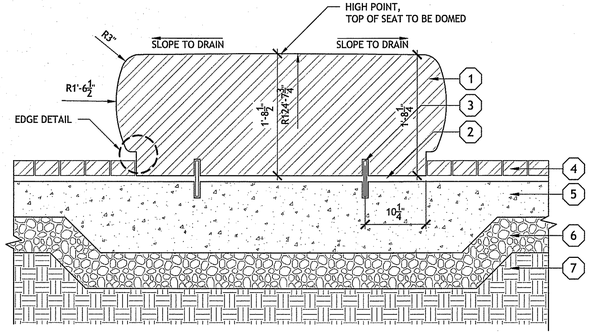


PLAN

5 GRANITE FIRE PIT
1/2"=1'-0"



SECTION A

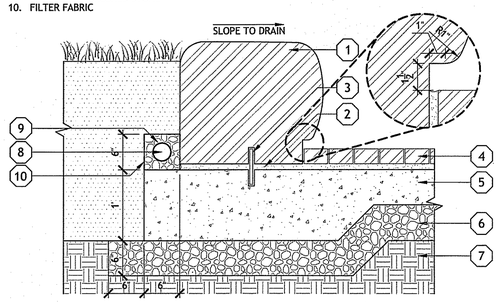


SECTION B

3 STONE SEAT AT SOUTH COURTYARD
1"=1'-0"

LEGEND
1. CUSTOM SOLID GRANITE SEAT
2. MORTAR SETTING BED
3. 1/2"Ø x 6" LONG STAINLESS STEEL DOWEL SET IN NON-SHRINK GROUT, 2 PER BENCH
4. GRANITE COBBLE PAVEMENT, SEE DETAILS
5. REINFORCED CONCRETE SLAB
6. COMPACTED AGGREGATE BASE COURSE
7. COMPACTED OR UNDISTURBED SUBGRADE
8. 4"Ø PERFORATED HDPE UNDERDRAIN
9. 3/4" - 1 1/2" CRUSHED STONE
10. FILTER FABRIC

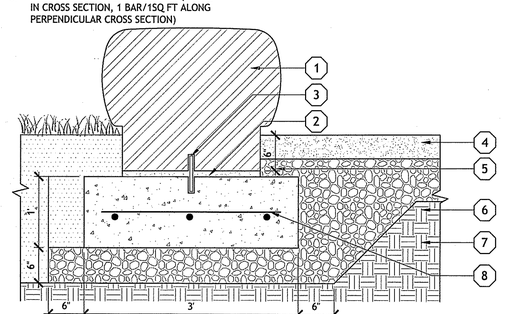
NOTES
A. SEALANT COLOR TO MATCH COLOR OF STONE AND BE APPROVED BY ARCHITECT.



2 SOUTH COURT STONE PLANTER
1"=1'-0"

LEGEND
1. CUSTOM GRANITE SEAT WALL
2. MORTAR SETTING BED
3. 1/2"Ø x 6" LONG STAINLESS STEEL DOWEL SET IN NON-SHRINK GROUT, 2 PER BLOCK
4. STONE DUST SURFACING
5. REINFORCED CONCRETE SLAB
6. COMPACTED AGGREGATE BASE COURSE
7. COMPACTED OR UNDISTURBED SUBGRADE
8. REINFORCING SHALL BE #5 REBAR (3 BARS IN CROSS SECTION, 1 BAR/150 FT ALONG PERPENDICULAR CROSS SECTION)

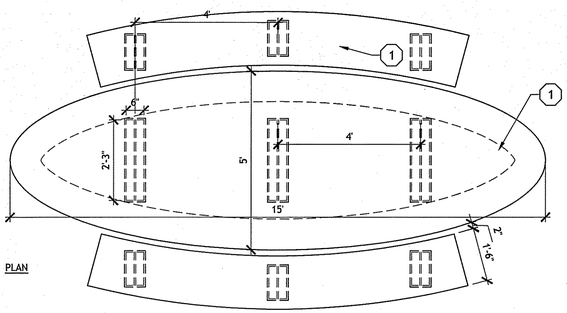
NOTES
A.



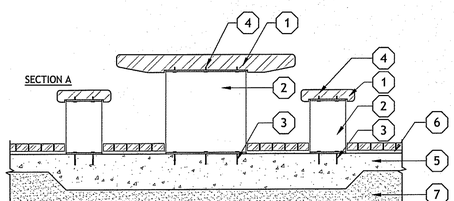
1 NORTH COURT STONE SEAT WALLS
1"=1'-0"

LEGEND
1. GRANITE TABLE / SEAT TOP
2. CUSTOM CORTEN STEEL SUPPORT, 1/2" THICK
3. ANCHOR BOLT TO SECURE STEEL SUPPORT TO CONCRETE
4. ANCHOR BOLT TO SECURE STEEL SUPPORT TO GRANITE
5. REINFORCED CONCRETE SLAB
6. MORTAR SETTING BED
7. CU-STRUCTURAL SOIL

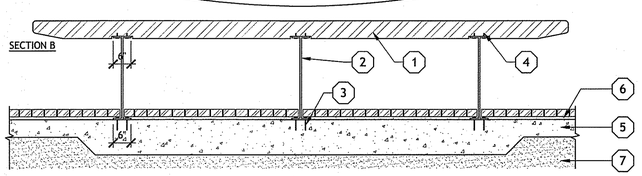
NOTES
A.



PLAN



SECTION A



SECTION B

4 GRANITE TABLE
1/2"=1'-0"

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

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Mark O. Dawson
No. 350
REGISTERED LANDSCAPE ARCHITECT
02.17.2017

REVISIONS:

1	2-17-17	RIDEM COMMENTS

PROJECT NO.:	SA 56173.00
DATE:	NOVEMBER 18, 2016
SCALE:	AS NOTED
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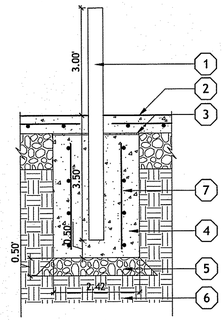
DRAWING TITLE:
LANDSCAPE DETAILS

DRAWING NO.:
L 4-02
SHEET NO. 39 OF 42

LEGEND
1. FIXED BOLLARD
2. CAST-IN-PLACE CONCRETE PAVING
3. 1/2" THICK MORTAR SETTING BED
4. CONCRETE FOUNDATION
5. COMPACTED AGGREGATE BASE
6. COMPACTED OR UNDISTURBED SUBGRADE
7. REINFORCING SHALL BE #5 REBAR (9 HORIZONTAL BAR, 4 VERTICAL BARS)

NOTES
A. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR APPROVAL.
B. BOLLARD TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS

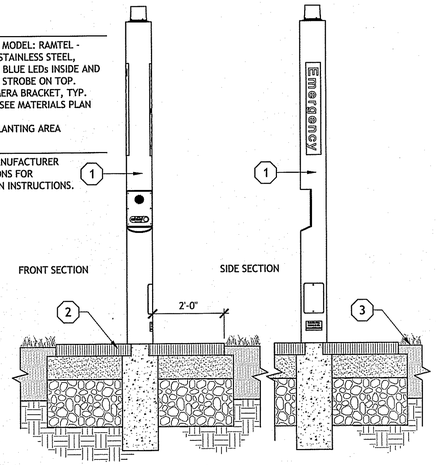
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 2 9 2017 FILE # 16-0291
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



8 BOLLARD TYPE I - SECURITY BOLLARD
1/2"=1'-0"

LEGEND
1. ACA SYSTEM. MODEL: RAMTEL - PLC-8A LED. STAINLESS STEEL, BLACK. TWO BLUE LEDs INSIDE AND ONE RED LED STROBE ON TOP. INCLUDE CAMERA BRACKET, TYP.
2. HARDSCAPE, SEE MATERIALS PLAN FOR TYPE
3. ADJACENT PLANTING AREA

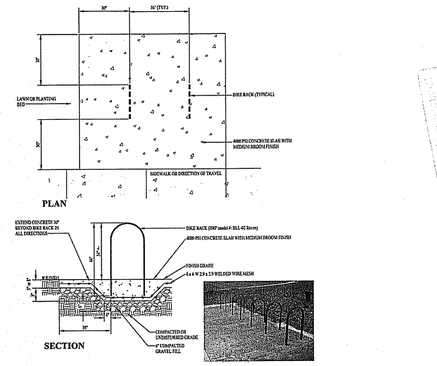
NOTES
A. REFER TO MANUFACTURER SPECIFICATIONS FOR INSTALLATION INSTRUCTIONS.



5 ALL CAMPUS ALERT (ACA) SYSTEM
1/2"=1'-0"

LEGEND
1.

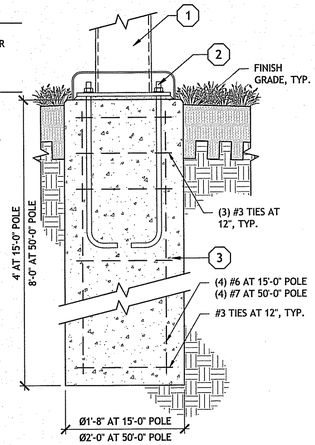
NOTES
A. BIKE RACK SHALL BE CAMPUS STANDARD BIKE RACK. CONTRACTOR SHALL COORDINATE WITH OWNER.
B. SEE PLANS FOR ADDITIONAL LAYOUT INFORMATION.



3 BIKE RACK
1"=1'-0"

LEGEND
1. LIGHT POLE
2. ANCHOR RODS - BY POLE MANUFACTURER
3. CAST-IN-PLACE CONCRETE FOUNDATION

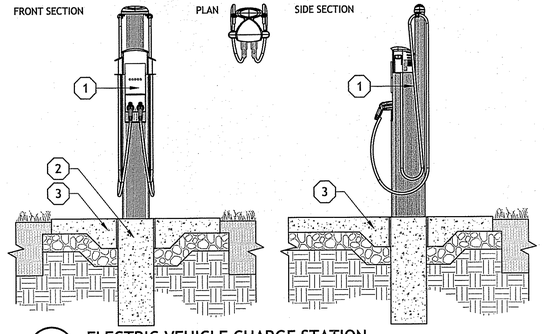
NOTES
A. CAST CONCRETE FOUNDATION AGAINST EARTH SIDES.
B. PROVIDE ½" CHAMFER TO TOP EDGE OF CAST-IN-PLACE CONCRETE FOUNDATION.
C. TOP OF CAST-IN-PLACE CONCRETE FOUNDATION SHALL SIT 1" ABOVE FINISH GRADE AT PLANTING.



7 LIGHT POLE FOUNDATION AT PLANT BED
1"=1'-0"

LEGEND
1. ELECTRIC CHARGE STATION BY CHARGEPOINT - MODEL CT4021
2. CAST-IN-PLACE CONCRETE FOUNDATION
3. HARDSCAPE, SEE MATERIALS PLAN FOR TYPE

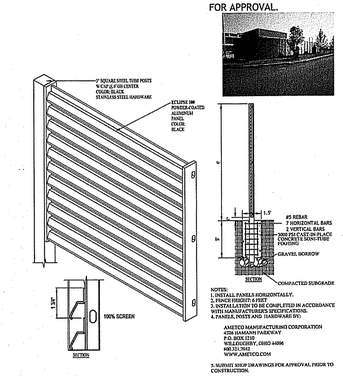
NOTES
A. REFER TO MANUFACTURER SPECIFICATIONS FOR INSTALLATION INSTRUCTIONS.
B. PROVIDE ELECTRIC POWER SUPPLY TO CHARGE STATION, PER MANUFACTURER SPECIFICATIONS.



4 ELECTRIC VEHICLE CHARGE STATION
1/2"=1'-0"

LEGEND
1.

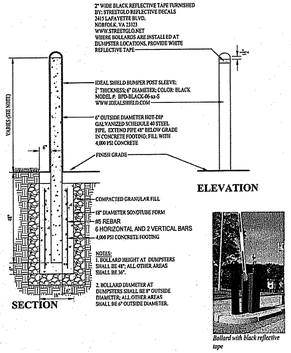
NOTES
A. SCREEN FENCE TO BE CAMPUS STANDARD SCREEN FENCE. CONTRACTOR SHALL COORDINATE WITH OWNER.
B. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR APPROVAL.



2 TRASH ENCLOSURE FENCE
1/2"=1'-0"

LEGEND
1.

NOTES
A. BOLLARD TO BE CAMPUS STANDARD BOLLARD. CONTRACTOR SHALL COORDINATE WITH OWNER.
B. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR APPROVAL.

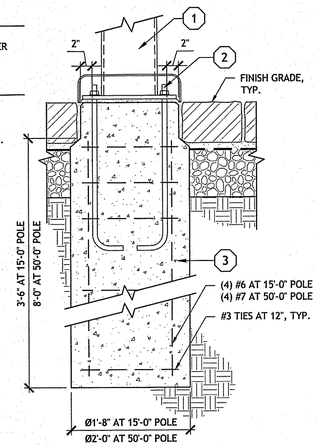


Bollard with black reflective tape

9 BOLLARD TYPE II - UTILITY BOLLARD
NTS

LEGEND
1. LIGHT POLE
2. ANCHOR RODS - BY POLE MANUFACTURER
3. CAST-IN-PLACE CONCRETE FOUNDATION

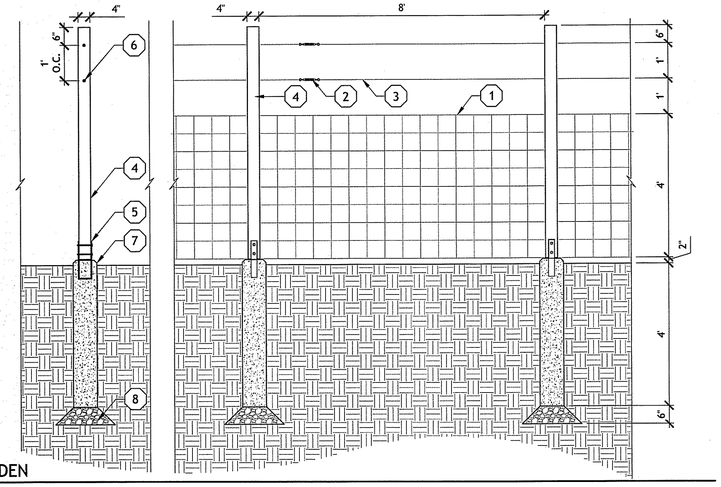
NOTES
A. CAST CONCRETE FOUNDATION AGAINST EARTH SIDES.
B. PROVIDE ½" CHAMFER TO TOP EDGE OF CAST-IN-PLACE CONCRETE FOUNDATION.
C. COORDINATE DIAMETER AND VERTICAL PLACEMENT OF CAST-IN-PLACE CONCRETE FOUNDATION NECK WITH LIGHT POLE BASE PLATE COVER DIMENSIONS. BASE PLATE COVER SHALL COMPLETELY COVER CAST-IN-PLACE FOUNDATION AND NOT HANG UP ON ANCHOR RODS. BASE PLATE COVER SHALL SIT FLUSH WITH FINISH GRADE.



6 LIGHT POLE FOUNDATION AT PAVERS
1"=1'-0"

LEGEND
1. 4'X8' GALVANIZED STEEL WELDED WIRE MESH PANEL, 6"X6" OPENINGS
2. GALVANIZED TURNBUCKLE, EYE & EYE; 1/4" X 4
3. HIGH TENSILE 12.5-GAUGE SMOOTH WIRE
4. 4"X4" (NOMINAL) PRESSURE TREATED POST
5. 4"X4" GALVANIZED STEEL POST BASE WITH STAND-OFF
6. ¾" CORE DRILL FOR CABLE
7. 8" CONCRETE FOOTING
8. COMPACTED AGGREGATE BASE

NOTES
A.



1 SCREEN FENCE AT COMMUNITY GARDEN
1/2"=1'-0"

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Mark O. Dawson No. 350 REGISTERED LANDSCAPE ARCHITECT
02.17.2017

REVISIONS:

1	2-17-17	RIDEM COMMENTS

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SCALE:	AS NOTED
DESIGNED BY:	CB
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DRAWN BY:	JM, RM, SW, WW
APPROVED BY:	MOD

DRAWING TITLE:
LANDSCAPE DETAILS

DRAWING NO.:
L 4-03
SHEET NO. 40 OF 42

PLANTING SCHEDULE

SYMBOL	QUANTITY	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	REMARKS
TREES						
ACRU	18	ACER RUBRUM	RED MAPLE	4–5" CAL.	AS SHOWN	B&B
AMCA	26	AMELANCHIER CANADENSIS	EASTERN SHADBUSH	8–10' HEIGHT	AS SHOWN	B&B; MULTISTEM
BENI	11	BETULA NIGRA	RIVER BIRCH	8–10' HEIGHT	AS SHOWN	B&B; MULTISTEM
BEPO	14	BETULA POPULIFOLIA 'WHITESPIRE'	GREY BIRCH	8–10' HEIGHT	AS SHOWN	B&B; MULTISTEM
CACA	5	CARPINUS CAROLINIANA	AMERICAN HORNBEAM	8–10' HEIGHT	AS SHOWN	B&B; MULTISTEM
CHTH	3	CHAMAECYPARIS THYOIDES	ATLANTIC WHITE CEDAR	8–10' HEIGHT	AS SHOWN	B&B
COFL	4	CORNUS FLORIDA	FLOWERING BIG–BRACTED–DOGWOOD	8–10' HEIGHT	AS SHOWN	B&B; MULTISTEM
CRCR	11	CRATAEGUS CRUS–GALLI VAR. INERMIS	COCKSPUR HAWTHORNE	8–10' HEIGHT	AS SHOWN	B&B
GLTR	14	GLEDITSIA TRIACANTHOS VAR. INERMIS	HONEY LOCUST	4–5" CAL.	AS SHOWN	B&B
HAVI	9	HAMAMELIS VIRGINIANA	WITCHHAZEL	8–10' HEIGHT	AS SHOWN	B&B; MULTISTEM
LALA	1	LARIX LARICINA	TAMARACK	8–10' HEIGHT	AS SHOWN	B&B
NYSY	11	NYSSA SYLVATICA	TUPELO	4–5" CAL.	AS SHOWN	B&B
PLOC	3	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	4–5" CAL.	AS SHOWN	B&B
QUAL	5	QUERCUS ALBA	WHITE OAK	4–5" CAL.	AS SHOWN	B&B
QUCO	7	QUERCUS COCCINEA	SCARLET OAK	4–5" CAL.	AS SHOWN	B&B
QUPA	1	QUERCUS PALUSTRIS	PIN OAK	4–5" CAL.	AS SHOWN	B&B
QUVE	27	QUERCUS VELUNTINA	BLACK OAK	4–5" CAL.	AS SHOWN	B&B
SAAL	6	SASSAFRAS ALBIDUM	SASSAFRAS	8–10' HEIGHT	AS SHOWN	B&B; MULTISTEM
THOC	3	THUJA OCCIDENTALIS	NORTHERN WHITE CEDAR	8–10' HEIGHT	AS SHOWN	B&B
SHRUBS						
CEAM	48	CEANOTHUS AMERICANUS	NEW JERSEY TEA	24–36"	AS SHOWN	CONTAINER
CEOC	3	CEPHALANTHUS OCCIDENTALIS	COMMON BUTTONBUSH	24–36"	AS SHOWN	CONTAINER
CLAL	28	CLETHRA ALNIFOLIA	PEPPERBUSH	24–36"	AS SHOWN	CONTAINER
COCO	21	CORYLUS CORNUTA VAR. CORNUTA	BEAKED HAZEL	24–36"	AS SHOWN	CONTAINER
COPE	49	COMPTONIA PEREGRINA	SWEET FERN	24–36"	AS SHOWN	CONTAINER
ILGL	22	ILEX GLABRA	INKBERRY	24–36"	AS SHOWN	CONTAINER
ILVE	3	ILEX VERTICILLATA	COMMON WINTERBERRY	24–36"	AS SHOWN	CONTAINER
LIBE	13	LINDERA BENZOIN VAR. BENZOIN	SPICEBUSH	24–36"	AS SHOWN	CONTAINER
ROPA	9	ROSA PALUSTRIS	SWAMP ROSE	24–36"	AS SHOWN	CONTAINER
SANI	5	SAMBUCUS NIGRA SSP. CANADENSIS	ELDERBERRY	24–36"	AS SHOWN	CONTAINER
SWAM	33	SWIDA AMOMUM	SILKY DOGWOOD	24–36"	AS SHOWN	CONTAINER
VIDE	10	VIBURNUM DENTATUM	ARROWWOOD	24–36"	AS SHOWN	CONTAINER
VINU	11	VIBURNUM NUDUM	NANNY–BERRY	24–36"	AS SHOWN	CONTAINER

GROUNDCOVER						
SYMBOL	QUANTITY	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	REMARKS
SM	8,690 SF	SUN MIX – GROUNDCOVERS				
	10%	ASCLEPIAS TUBEROSA	BUTTERFLY MILKWEED	#5 CONTAINER	12" OC	
	10%	ASTER NOVAE–ANGLIAE	NEW ENGLAND ASTER	#5 CONTAINER	12" OC	
	10%	LIATRIS NOVAE–ANGLIAE	NORTHERN BLAZING STAR	#5 CONTAINER	12" OC	
	25%	PANICUM VIGATUM	SWITCH GRASS	#5 CONTAINER	12" OC	
	20%	RUDBECKIA HIRTA	BLACK EYED SUSAN	#5 CONTAINER	12" OC	
	25%	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	#5 CONTAINER	12" OC	
CM	20,176 SF	COURTYARD MIX – GROUNDCOVERS				
	20%	CAREX PENSYLVANICA	PENNSYLVANIA SEDGE	#5 CONTAINER	12" OC	
	20%	CAREX ROSEA	CURLY–STYLED WOOD SEDGE	#5 CONTAINER	12" OC	
	30%	DENNSTAEDTIA PUNCTILOBULA	HAY–SCENTED FERN	#5 CONTAINER	12" OC	
	15%	EURYBIA DIVARICATA	WHITE WOOD ASTER	#5 CONTAINER	12" OC	
	15%	MAIANTHEMUM RACEMOSUM	FALSE SOLOMON'S SEAL	#5 CONTAINER	12" OC	
WM	9,365 SF	DETENTION BASIN MIX – GROUNDCOVERS				
	10%	ASCLEPIAS INCARNATA VAR. PULCHRA	SWAMP MILKWEED	#5 CONTAINER	12" OC	
	20%	CAREX STRICTA	TUSSOCK SEDGE	#5 CONTAINER	12" OC	
	10%	DENNSTAEDTIA PUNCTILOBULA	HAY–SCENTED FERN	#5 CONTAINER	12" OC	
	10%	EURYBIA DIVARICATA	WHITE WOOD ASTER	#5 CONTAINER	12" OC	
	10%	IRIS VERSICOLOR	NORTHERN BLUE FLAG	#5 CONTAINER	12" OC	
	15%	OSMUNDA CINNAMOMEA	CINNAMON FERN	#5 CONTAINER	12" OC	
	10%	SYMPHYOTRICHUM NOVAE–ANGLIAE	NEW ENGLAND ASTER	#5 CONTAINER	12" OC	
	15%	WOODWARDIA VIRGINICA	VIRGINIA CHAINFERN	#5 CONTAINER	12" OC	
GRASSES & NATIVE SEED MIXES						
	41,364 SF	TURF GRASS – SEED	LAWN			SEED MIX, SEE SPECIFICATIONS
	2,593 SF	REINFORCED TURF GRASS – SEED	LAWN			SEED MIX, SEE SPECIFICATIONS
	94,985 SF	NATIVE MESIC MEADOW – SEED	NATIVE MEADOW ***			SEED MIX, SEE SPECIFICATIONS
	52,076 SF	NATIVE SHADE – SEED	NATIVE SHADE ***			SEED MIX, SEE SPECIFICATIONS
	19,518 SF	NATIVE WET MEADOW – SEED	NATIVE WET MEADOW ***			SEED MIX, SEE SPECIFICATIONS
						*** ACCOUNT FOR ONE PERENNIAL PLUG PER 3 SF OF SEEDED AREA FOR ACCENT PLANTINGS

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 2 9 2017 FILE # 16-0291
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

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

OWNER/APPLICANT:

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SASAKI
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BROOKSIDE APARTMENTS
UNIVERSITY OF RHODE ISLAND
Assessor's Plat 15-4, Lot 7
West Alumni Avenue
Kingston, RI

Mark O. Dawson No. 850 REGISTERED LANDSCAPE ARCHITECT
02.17.2017

REVISIONS:

1	2-17-17	RIDEM COMMENTS

PROJECT NO.:	SA 56173.00
DATE:	NOVEMBER 18, 2016
SCALE:	NTS
DESIGNED BY:	CB
CHECKED BY:	EH
DRAWN BY:	JM, RM, SW, WW
APPROVED BY:	MOD

DRAWING TITLE:

PLANTING SCHEDULE

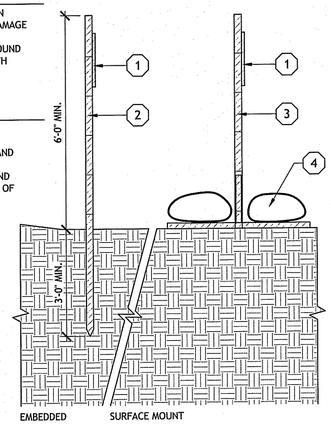
DRAWING NO.:

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SHEET NO. 41 OF 42

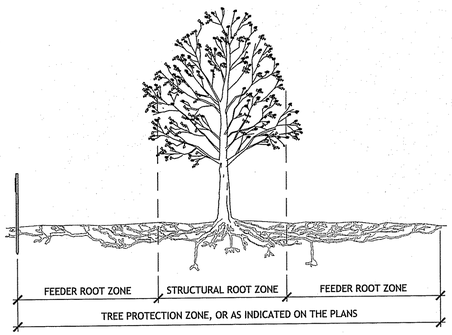
LEGEND
1. SIGN - "KEEP OUT: SITE PROTECTION ZONE. PENALTIES ASSESSED FOR DAMAGE TO TREES."
2. CHAIN LINK FENCE POST SET IN GROUND
3. REMOVABLE SECTION OF FENCE WITH FENCE POSTS SET IN STAND
4. 40LB SAND BAGS, OR EQUAL

NOTES
A. SIGNS SHALL BE PLACED AT 30'-0" INTERVALS.
B. SIGNS SHALL HAVE BOTH ENGLISH AND SPANISH TRANSLATION.
C. REFER TO "EXISTING CONDITIONS AND DEMOLITION PLAN" FOR LOCATIONS OF TREE PROTECTION.



8 TREE PROTECTION FENCE
1/2"=1'-0"

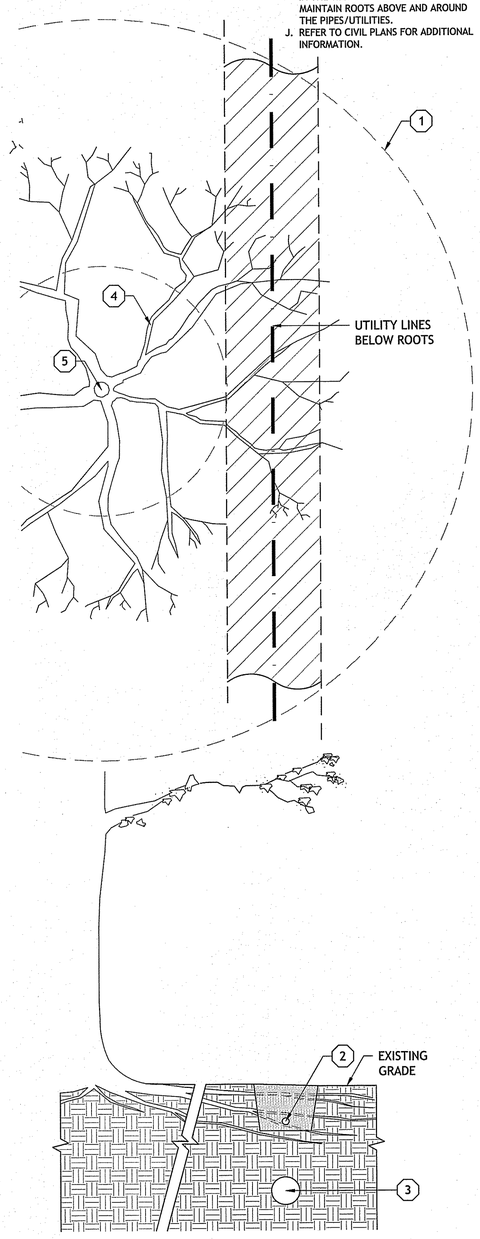
NOTES
A. ARBORIST TO VERIFY ACTUAL ROOT ZONE AREA IN FIELD, WHERE CRITICAL.
B. REFER TO "EXISTING CONDITIONS AND DEMOLITION PLAN" FOR LOCATIONS OF TREE PROTECTION.



7 TREE PROTECTION ZONE
1/8"=1'-0"

LEGEND
1. TREE PROTECTION ZONE
2. SHALLOW UTILITY PIPE OR CONDUIT
3. DEEP UTILITY PIPE
4. TREE BRANCHES
5. TREE TRUNK

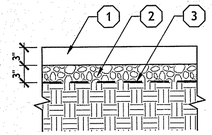
NOTES
A. SHALLOW UTILITY LINES TO BE INSTALLED USING AIR SPADE EXCAVATION. DEEP UTILITY PIPES TO BE INSTALLED USING HORIZONTAL BORING.
B. OWNER'S ARBORIST SHALL OVERSEE WORK WITHIN TREE PROTECTION ZONES.
C. ARBORIST AIR SPADES SURFACE TO REVEAL ROOTS.
D. HAND EXCAVATE UTILITY TRENCH UNDER SUPERVISION OF THE ARBORIST.
E. KEEP EXPOSED ROOTS MOIST; SEE SPECIFICATIONS.
F. DO NOT INSTALL UTILITIES WITHIN STRUCTURAL ROOT ZONES.
G. REVIEW ROUTING WITH OWNERS REPRESENTATIVE AND/OR LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
H. PLANTING SOIL BACKFILL COMPACTION TO 85% MAXIMUM
I. EXISTING ROOTS TO REMAIN. DO NOT CUT MAIN, LATERAL, OR TAP ROOTS. ARBORIST WILL CUT ONLY MINOR ROOTS IN THE WAY OF PIPES/UTILITIES. MAINTAIN ROOTS ABOVE AND AROUND THE PIPES/UTILITIES.
J. REFER TO CIVIL PLANS FOR ADDITIONAL INFORMATION.



6 UTILITY INSTALLATION WITHIN TREE PROTECTION
1/2"=1'-0"

LEGEND
1. HARDWOOD MULCH
2. AGGREGATE BASE
3. NON-WOVEN GEOTEXTILE

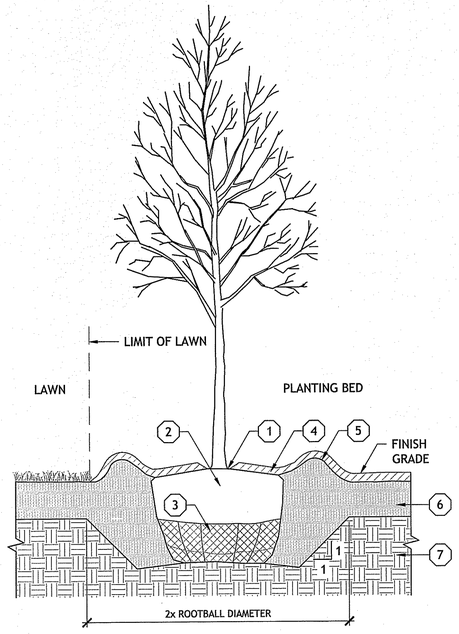
NOTES
A.



5 TEMPORARY MULCH PATHWAY
1"=1'-0"

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

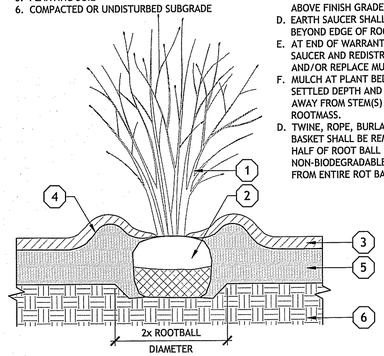
NOTES
A. PRUNE TREE ONLY AFTER REVIEW WITH THE LANDSCAPE ARCHITECT.
B. TOP OF ROOTBALL (TRUNK FLARE) SHALL BE SET 1-2" ABOVE FINISH GRADE (WITH TRUNK FLARE VISIBLE).
C. ROOTBALL SHALL BE SET ON UNEXCAVATED SUBGRADE OR TAMPED SOIL MOUND, TYP.
D. EARTH SAUCER SHALL BE 4" HIGH, BEYOND EDGE OF ROOTBALL.
E. MULCH SHALL HAVE A 3" SETTLED DEPTH AND SHALL BE KEPT AWAY FROM TREE TRUNK, TYP.
F. 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.



4 TYPICAL TREE PLANTING
1/2"=1'-0"

LEGEND
1. SHRUB PLANTING
2. SHRUB ROOTBALL
3. HARDWOOD MULCH
4. EARTH SAUCER
5. PLANTING SOIL
6. COMPACTED OR UNDISTURBED SUBGRADE

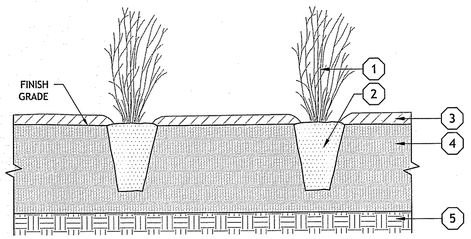
NOTES
A. SEPARATE AND SPREAD POT-BOUND ROOTS, TYP.
B. PRUNE ONLY AFTER REVIEW WITH THE LANDSCAPE ARCHITECT.
C. TOP OF ROOTBALL SHALL SIT SLIGHTLY ABOVE FINISH GRADE.
D. EARTH SAUCER SHALL BE 4" HIGH, BEYOND EDGE OF ROOTBALL.
E. AT END OF WARRANTY PERIOD, REMOVE SAUCER AND REDISTRIBUTE, ADD AND/OR REPLACE MULCH AS NECESSARY.
F. MULCH AT PLANT BEDS SHALL HAVE A 3" SETTLED DEPTH AND SHALL BE KEPT AWAY FROM STEM(S) AT TOP OF ROOTMASS.
D. 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.



3 TYPICAL SHRUB PLANTING
1"=1'-0"

LEGEND
1. PERENNIAL/HERBACEOUS PLANTING
2. PLANT ROOTMASS
3. HARDWOOD MULCH
4. PLANTING SOIL
5. COMPACTED OR UNDISTURBED SUBGRADE

NOTES
A. SEPARATE AND SPREAD POT-BOUND ROOTS, TYP.
B. MULCH AT PLANT BEDS SHALL HAVE A 2" SETTLED DEPTH AND SHALL BE KEPT AWAY FROM STEM(S) AT TOP OF ROOTMASS.

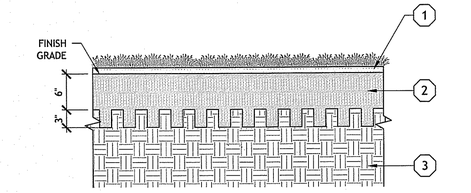


2 TYPICAL PERENNIAL PLANTING
1"=1'-0"

LEGEND
1. SOD
2. PLANTING SOIL
3. SCARIFIED OR LOOSENED SUBGRADE

NOTES
A. REFER TO SPECIFICATIONS FOR SOD TYPE AND SOIL MIX BLEND.

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1 TYPICAL SOD PLANTING
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8 BLACKSTONE VALLEY PLACE
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Mark O. Dawson
No. 350
REGISTERED LANDSCAPE ARCHITECT
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REVISIONS:

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PROJECT NO.:	SA 56173.00
DATE:	NOVEMBER 18, 2016
SCALE:	AS NOTED
DESIGNED BY:	CB
CHECKED BY:	EH
DRAWN BY:	JM, RM, SW, WW
APPROVED BY:	MOD

DRAWING TITLE:
PLANTING DETAILS

DRAWING NO.:
L 6-01
SHEET NO. 42 OF 42