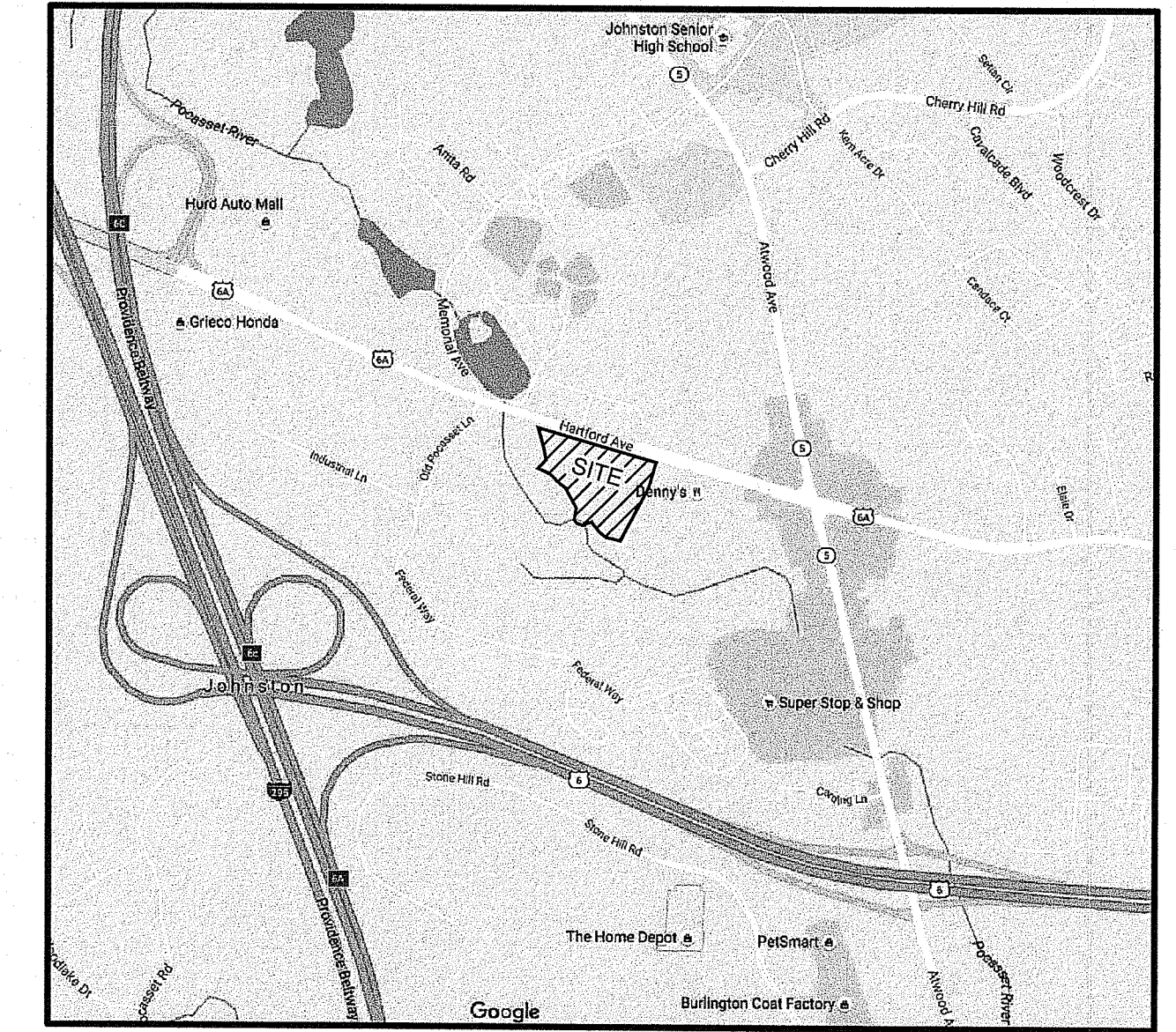


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LOCUS MAP
NOT TO SCALE

PARKSIDE SHOPPING CENTER

PLAT 44 LOT 84

HARTFORD AVENUE

JOHNSTON, RI

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

NOTE PER DEM:

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

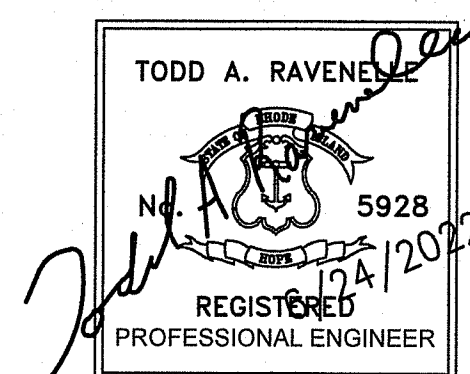
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL

DATED: AUG 30 2022 FILE #: 22-0268

NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Nancy L. Freeman



RI Environmental Management
JUN 27 2022
Office of Water Resources

R.I.D.E.M. SUBMISSION
JUNE 24, 2022

GENERAL NOTES

- REFERENCE IS MADE TO THE RIDOT 2010 EDITION "STANDARD AND SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" INCLUDING ALL REVISIONS, ADDENDA AND SUPPLEMENTAL SPECIFICATIONS; AND RIDOT 1998 "STANDARD DETAILS" INCLUDING ALL REVISIONS. ALL PROJECT SITE IMPROVEMENTS SHALL CONFORM TO THESE REGULATIONS AND THE SUB-REFERENCES INCORPORATED THEREIN.
- EXISTING UTILITIES HAVE BEEN PLOTTED FROM BEST AVAILABLE DATA AND ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING DRAINAGE AND UTILITIES BOTH UNDERGROUND AND OVERHEAD BEFORE EXCAVATION BEGINS IN ACCORDANCE WITH THE "DIG SAFE LAW" ENACTED BY R.I. LEGISLATURE BILL NO. 79S-291, WHICH BECAME EFFECTIVE JULY 1, 1979 AND BY CONTACTING THE INDIVIDUAL UTILITY COMPANIES. EXCAVATION SHALL BE IN ACCORDANCE WITH ALL STATUTES, ORDINANCES, RULES AND REGULATIONS OF ANY APPLICABLE CITY, TOWN, STATE OR FEDERAL AGENCY. THE CONTRACTOR SHOULD UNDERSTAND THAT NOT ALL UTILITIES SUBSCRIBE TO THE DIG SAFE PROGRAM. IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES AND ENSURE THAT ALL UTILITIES HAVE BEEN MARKED PRIOR TO COMMENCING THEIR WORK. ANY DAMAGE TO EXISTING UTILITIES MARKED IN THE FIELD, OR AS A RESULT OF FAILING TO CONTACT THE APPROPRIATE UTILITY COMPANY, SHALL BE REPAIRED OR REPLACED AT NO COST TO THE OWNER.
- CONTRACTOR SHALL RECOGNIZE THAT WORK UNDER EXISTING OVERHEAD UTILITIES IS REQUIRED AND THAT MINIMUM CLEARANCE SHALL CONFORM TO UTILITY COMPANY REQUIREMENTS AND SHALL BE MAINTAINED AT ALL TIMES. THIS MAY REQUIRE SPECIAL CONSTRUCTION TECHNIQUES. SHOULD THE CONTRACTOR ELECT TO RELOCATE THE EXISTING OVERHEAD UTILITIES, THEN THE CONTRACTOR SHALL COORDINATE AND BEAR ALL ASSOCIATED COSTS.
- THE CONTRACTOR SHALL MAINTAIN ALL EXCAVATION IN A DRY CONDITION. NO SEPARATE PAYMENT OR ALLOWANCE SHALL BE MADE FOR DEWATERING.
- FILL NEEDED FOR THE EMBANKMENTS SHALL MEET SECTION M.01.01 COMMON BORROW OF THE RIDOT STANDARDS AND SPECIFICATIONS, 2004 EDITION UNLESS OTHERWISE NOTED.
- ALL GRASSED AREAS DISTURBED BY THE CONTRACTOR SHALL BE LOAMED AND SEEDED OR SODDED IF SO DIRECTED BY THE ENGINEER AND RETURNED TO THEIR ORIGINAL CONDITION. ALL OTHER VEGETATED OR WOODED AREAS DISTURBED SHALL BE LOAMED AND SEEDED.
- ALL EXISTING CURBING, SIDEWALK AND OTHER PAVEMENT DISTURBED BY THE CONTRACTOR SHALL BE REPLACED AND RESTORED, IN KIND AT NO ADDITIONAL COST TO THE OWNER.
- ALL EXISTING PIPE, SUBSURFACE STRUCTURES, PAVEMENTS, EXCESS EXCAVATED MATERIALS AND MISCELLANEOUS MATERIALS REMOVED DURING THE COURSE OF WORK OF INSTALLING DRAINAGE, WATER, SEWER, STEAM, UNDERGROUND ELECTRIC AND COMMUNICATION LINES SHALL BE LEGALLY DISPOSED OF OFF THE PROJECT SITE BY THE CONTRACTOR OR AS DIRECTED BY THE OWNER.
- CONTINUOUS DUST CONTROL, USING CALCIUM CHLORIDE OR OTHER APPROVED METHODS, SHALL BE PROVIDED BY THE CONTRACTOR FOR ALL EARTH STOCKPILES, EARTH PILED ALONG EXCAVATIONS AND SURFACES OF BACK FILLED TRENCHES, AS DIRECTED AND SPECIFIED BY THE ENGINEER.
- THE CONTRACTOR SHALL GIVE NOTICES AND COMPLY WITH ALL PERMITS, LAWS, ORDINANCES, RULES AND REGULATIONS BEARING ON THE CONDUCT OF THE WORK AS DRAWN AND SPECIFIED.
- SOIL EROSION CONTROL MEASURES TO BE USED ON THE PROJECT ARE INDICATED ON THE PLANS. EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE PROVISIONS OF THE RHODE ISLAND SOIL EROSION & SEDIMENT CONTROL HANDBOOK AND THE EROSION AND SEDIMENT CONTROL PLAN IN THE SPECIFICATIONS.
- PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES, A CONTINUOUS UNINTERRUPTED LINE OF STAKED COMPOST FILTER SOCK OR SILT FENCING SHALL BE INSTALLED IN LOCATIONS SHOWN ON THE PLANS AND MAINTAINED IN EFFECTIVE CONDITION UNTIL DISTURBED AREAS HAVE BEEN STABILIZED WITH VEGETATION. FOLLOWING SUCCESSFUL STABILIZATION OF DISTURBED AREAS, ALL SILT FENCING AND COMPOST FILTER SOCK SHALL BE REMOVED. PRIOR TO REMOVAL OF THE SILT FENCING AND COMPOST FILTER SOCK, ALL ACCUMULATED TRAPPED SEDIMENT MUST BE REMOVED TO A SUITABLE UPLAND SITE.
- UNTIL VEGETATIVE COVER IS ESTABLISHED AND DISTURBED AREAS ARE STABILIZED, ACCUMULATED SEDIMENTS SHALL BE REMOVED AS SOON AS SEDIMENTS HAVE ACCUMULATED TO A DEPTH OF SIX (6) INCHES.
- THE LIMITS OF ALL CLEARING, GRADING AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE PROPOSED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE THE LIMITS OF DISTURBANCE SHALL BE TOTALLY UNDISTURBED.
- SOIL STOCKPILES AND DEPOSITION AREA FOR CONSTRUCTION MATERIALS SHALL BE LOCATED WITHIN THE LIMIT OF WORK AND SHALL BE SURROUNDED BY STAKED COMPOST FILTER SOCK.
- PLANTING OF GRASS SHALL BE ACCOMPLISHED BY THE CONTRACTOR AS EARLY AS POSSIBLE UPON COMPLETION OF GRADING AND CONSTRUCTION.
- THE CONTRACTOR'S WORK SHALL INCLUDE THE CLEARING AND GRUBBING OF THE WORK SITE WITHIN THE LIMITS OF DISTURBANCE DEFINED ON THE PLANS. THE WORK INCLUDES CUTTING AND REMOVING FROM THE GROUND AND DISPOSING TREES, STUMPS, BRUSH, SHRUBS, HEDGES AND ROOTS AND OTHER VEGETATION WHICH OCCUR WITHIN THE LIMIT OF DISTURBANCE. THE OWNER SHALL BE NOTIFIED AND APPROVE THE LIMITS OF CLEARING AND GRUBBING PRIOR TO THE START OF WORK.
- THE SITE EQUALS 8.7 ACRES AND IS COMPRISED OF PARCELS A.P. 44, LOTS 84, 85, 295 AND 355. THE SITE IS ZONED B2 REDEVELOPMENT OVERLAY DISTRICT (ROD). THE EXISTING SITE USE IS COMMERCIAL BUSINESS AND VACANT. THE PROPOSED USE IS COMMERCIAL BUSINESS.
- THERE ARE NO KNOWN EASEMENTS, PLAT RESTRICTIONS OR COVENANTS LOCATED ON THE SITE.
- THERE ARE NO KNOWN UNUSUAL NATURAL FEATURES, HISTORIC AREAS, CEMETERY'S, ETC. LOCATED ON THE SITE.
- FLOOD ZONES 'AE', 'X' AND 'SHADED X' SHOWN ON THIS PLAN PER FEMA FIRM MAP NUMBER 4403C0205G, EFFECTIVE 12/3/10 AND 44007C0284H, REVISED OCTOBER 2, 2015.
- THE WETLAND EDGE DELINEATED ON THIS PLAN WAS VERIFIED UNDER RIDEM APPLICATION NO. 15-0286.
- THE CONTRACTOR SHALL NOTIFY AND SUBMIT BUILDING SEWER CONNECTION APPLICATION TO NARRAGANSETT BAY COMMISSION FOR EACH BUILDING SERVICE.
- THE CONTRACTOR SHALL COORDINATE ELECTRICAL AND GAS SERVICES WITH NATIONAL GRID.

DATA FOR ZONE B2 (ROD)

ZONING REQUIREMENT

MINIMUM AREA	N/A
MINIMUM WIDTH	N/A
FRONT YARD MIN.	20'
SIDE YARD MIN.	10'
REAR YARD MIN.	40'
MAXIMUM FLOORS	6
MAXIMUM BUILDING COVERAGE	100%

EROSION AND SEDIMENT CONTROL NOTES

- DENUDED SLOPES SHALL NOT BE UNATTENDED OR EXPOSED IN AREAS WHERE WORK IS TO CEASE FOR 14 DAYS AND NOT SET TO RESUME WITHIN 21 DAYS OR THE INACTIVE WINTER SEASON.
- ALL DISTURBED SLOPES EITHER NEWLY CREATED OR EXPOSED PRIOR TO OCTOBER 15, SHALL BE SEEDED OR PROTECTED BY THAT DATE FOR ANY WORK COMPLETED DURING EACH CONSTRUCTION YEAR.
- THE SEEDED MIX SHALL BE INOCULATED WITHIN 24 HOURS, BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULUM FOR EACH VARIETY.
- THE DESIGN MIX SHALL BE COMPRISED OF THE FOLLOWING:

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

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

STORMWATER MAINTENANCE NOTES

- ALL MAINTENANCE (INCLUDING CLEANING) REQUIRED DURING THE CONSTRUCTION PHASE OF THE PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL INCLUDE:
 - MEASURES NEEDED TO ENSURE THE PROPER OPERATION OF THE STORMWATER MANAGEMENT PRACTICES. SYSTEMS TO INCLUDE INSPECTION, CLEANING AND REPAIRS TO THE BIOTENTION SYSTEMS INCLUDING ALL PIPES, SWALES, INTAKE AND DISCHARGE STRUCTURES, CATCH BASIN SUMPS, AND MANHOLES.
 - INSPECTION OF ALL SLOPES, BERMS, AND OTHER CONTROL STRUCTURES FOR STRUCTURAL INTEGRITY/STABILITY AND EVIDENCE OF SOIL EROSION PROCESSES, AND MAINTENANCE OF THESE ELEMENTS AS REQUIRED. INSPECTIONS SHALL BE PERFORMED FOLLOWING ALL RAIN EVENTS OF 1/2 INCH RAINFALL OR MORE IN A 24-HOUR PERIOD, OR BI-MONTHLY IF NO RAINFALL EVENT OCCURS.
- UPON COMPLETION OF PROJECT CONSTRUCTION, AND PRIOR TO VACATING THE SITE, THE CONTRACTOR SHALL CONDUCT A FINAL INSPECTION AND CLEANING OF THE DRAINAGE SYSTEM AND ALL ASSOCIATED STRUCTURES.
- AFTER THE COMPLETION OF THE ENTIRE PROJECT TO THE SATISFACTION OF THE ENGINEER, ALL MAINTENANCE OF THE DRAINAGE SYSTEM SHALL THEN BE THE RESPONSIBILITY OF THE UNIVERSITY OF RHODE ISLAND OR THEIR APPOINTED AGENTS.
- IN ACCORDANCE WITH THE LONG-TERM OPERATION AND MAINTENANCE PLAN (O&M PLAN) FOR THE PROJECT, THE DRAINAGE SYSTEM AND ALL BEST MANAGEMENT PRACTICES SHALL BE INSPECTED, CLEANED AND MAINTAINED (ROUTINE MAINTENANCE) A MINIMUM OF TWO (2) TIMES IN A GIVEN CALENDAR YEAR TO ENSURE THAT ALL SYSTEM ELEMENTS ARE FUNCTIONING PROPERLY.
- CLEANING AND ROUTINE MAINTENANCE OF CATCH BASINS, MANHOLES, AND OTHER SYSTEM ELEMENTS SHALL INCLUDE THE REMOVAL OF ALL ACCUMULATED SEDIMENTS AND DEBRIS (EITHER MANUALLY OR BY VACUUM TRUCK) AS WELL AS OTHER ACTIVITIES REQUIRED TO ENSURE THE CONTINUED OPERATIONAL PERFORMANCE. ANY BARE SPOTS OR ERODED AREAS WITHIN SWALES, AT INLETS/OUTLETS, OR OTHER LOCATIONS WITHIN THE SYSTEMS MUST BE REPLANTED AND/OR STABILIZED IMMEDIATELY FOLLOWING OBSERVATIONS TO PREVENT SUBSEQUENT EROSION OR CLOGGING. SHOULD THE INSPECTION OF THE SYSTEMS REVEAL ANY EVIDENCE OF SEDIMENT ACCUMULATION WITHIN ANY OF THE BIOTENTION SWALES, SEDIMENTS SHALL BE REMOVED AND THE SURFACE LAYER RESTORED TO ITS ORIGINAL DEPTH AND CONDITION.
- BY THEIR NATURE, BIOTENTION SWALES HAVE AN OPERATIONAL LIFE CYCLE THAT WILL REQUIRE THE TILLING AND RESEEDING OF THE TOP LAYER (12") OF THE SWALE TO RESTORE DESIGN PERCOLATION RATES THROUGH THE SURFACE LAYER (WHICH MAY BECOME REDUCED OVER TIME DUE TO CLOGGING, BLINDING, AND/OR OTHER FACTORS). THIS TILLING SHOULD BE PERFORMED APPROXIMATELY ONCE EVERY 5-10 YEARS, WHEN INFILTRATION CAPACITY IS DIMINISHED TO THE POINT WHERE STANDING WATER REMAINS IN THE SWALE MORE THAN 72 HOURS FOLLOWING A RAINFALL EVENT. THE TILLING/RESEEDING OPERATION SHALL BE CONDUCTED DURING THE SPRING OR FALL GROWING PERIOD WITH TILLING ACCOMPLISHED USING A ROTARY TILLER OR DISC HOLLOW AND THE SWALE BOTTOM RESEEDED IMMEDIATELY FOLLOWING TILLING TO PREVENT EROSION.

STORMWATER MAINTENANCE NOTES (CONT.)

- ALL SEDIMENT, DEBRIS, AND OTHER MATERIALS REMOVED IN THE MAINTENANCE OF THE STORMWATER SYSTEMS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- ALL LANDSCAPED AND GRASSED AREAS SURROUNDING SHALL BE MOWED AT LEAST ONCE PER GROWING SEASON, WITH GRASSED AREAS FLANKING THE BIOTENTION AREAS CUT TO A HEIGHT NO SHORTER THAN FOUR (4) INCHES. GRASS PLANTINGS WITHIN THE BIOTENTION AREAS PROPER SHALL BE CUT AT LEAST ANNUALLY, SUCH THAT THE HEIGHT OF GRASS DOES NOT EXCEED TEN (10) INCHES ABOVE THE BIOTENTION SOIL MEDIA SURFACE. MOWING AND CUTTING WITHIN ALL BIOTENTION AREAS SHALL BE PERFORMED IN A MANNER THAT DOES NOT COMPACT THE UNDERLYING MEDIA (I.E., HAND-OPERATED, SMALL SCALE EQUIPMENT).
- THE OWNER SHALL BE RESPONSIBLE FOR ALL REPAIRS, REPLACEMENTS, AND OTHER WORK NECESSARY TO MAINTAIN THE PROPER FUNCTIONING OF THE SUBJECT BIOTENTION/FILTERING SYSTEMS. ANY REQUIRED REPAIR AND/OR REPLACEMENT OF DRAINAGE STRUCTURES OR FACILITIES SHALL BE PERFORMED PROMPTLY TO ENSURE PROPER FUNCTIONING OF THE SYSTEM(S). IN THE EVENT OF A SIGNIFICANT DECREASE IN PERFORMANCE OF A SYSTEM (E.G., STANDING WATER / PROLONGED DRAWDOWN TIMES), THE PERTINENT SYSTEMS ELEMENTS SHALL BE REPAIRED OR REPLACED SO AS TO RE-ESTABLISH ORIGINAL DESIGN FUNCTIONALITY.
- ANY INCIDENT OF INADVERTENT OR DELIBERATE DISCHARGE OF WASTE OIL OR OTHER CONTAMINANT(S) TO THE SYSTEMS SHALL BE IMMEDIATELY REPORTED TO THE RIDEM OFFICE OF WATER RESOURCES AT 401-222-6820. THE RIDEM AFTER-HOURS EMERGENCY TELEPHONE NUMBER IS (401) 222-3070.
- OPERATION AND MAINTENANCE OF THE DRAINAGE SYSTEMS SHALL BE CONDUCTED IN ACCORDANCE WITH ALL APPLICABLE TERMS AND CONDITIONS SET FORTH IN THE RIDEM APPROVALS ISSUED FOR THE PROJECT. WRITTEN NOTIFICATION OF ANY CHANGES TO (A) THE PHYSICAL INFRASTRUCTURE OF THE SYSTEMS OR (B) O&M PLAN PROCEDURES SHALL BE PROVIDED TO THE RIDEM OFFICE OF WATER RESOURCES.

PLACEMENT OF SEWERS

A. LATERAL PLACEMENT OF SEWERS AND WATER MAINS.

SEWERS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN. THE DISTANCE SHALL BE MEASURED EDGE-TO-EDGE. THERE IS NO MINIMUM VERTICAL SEPARATION REQUIRED PROVIDED THE 10 FOOT HORIZONTAL SEPARATION IS MAINTAINED.

IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10 FOOT HORIZONTAL SEPARATION, D.E.M. MAY ALLOW DEVIATION ON A CASE-BY-CASE BASIS, IF SUPPORTED BY DATA FROM THE DESIGN ENGINEER. SUCH DEVIATION MAY ALLOW INSTALLATION OF THE SEWERS CLOSER TO A WATER MAIN PROVIDED THAT:

- THE SEWER AND WATER MAIN ARE LAID IN SEPARATE TRENCHES, OR
- THE SEWER AND WATER MAIN MAY BE INSTALLED IN THE SAME TRENCH WITH THE WATER MAIN PLACED ON A BENCH OF UNDISTURBED EARTH, AND
- IN EITHER CASE, THE CROWN OF THE SEWER SHALL BE AT LEAST 18-INCHES BELOW THE INVERT OF THE WATER MAIN.

IN SITUATIONS WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER HORIZONTAL AND VERTICAL SEPARATION AS STIPULATED ABOVE, THE FOLLOWING PROTECTION SHALL BE PROVIDED.

- ENCASEMENT OF THE SEWER PIPE IN CONCRETE (MIN. 6-INCH THICKNESS) OR A CARRIER PIPE FOR AT LEAST 10 FEET EITHER SIDE OF THE AREA NOT COMPLYING WITH THE MINIMUM HORIZONTAL AND VERTICAL SEPARATION, OR
- DESIGN AND CONSTRUCTION OF THE SEWER EQUAL TO WATER MAIN PIPE (CEMENT-LINED DUCTILE IRON OR OTHER AWWA APPROVED MATERIAL FOR POTABLE WATER CONVEYANCE), AND PRESSURE TESTED IN ACCORDANCE WITH AWWA SPECIFICATIONS.

B. SEWERS CROSSING WATER MAINS.

SEWERS CROSSING OVER WATER MAINS SHOULD BE AVOIDED, BUT IF CONDITIONS WARRANT THIS SITUATION THEN ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO MAINTAIN LINE AND GRADE. SEWERS CROSSING UNDER WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL SEPARATION OF 18-INCHES BETWEEN THE INVERT OF THE WATER MAIN AND THE CROWN OF THE SEWER. RELOCATION OF AN EXISTING WATER MAIN MAY BE NECESSARY TO ACHIEVE THIS VERTICAL SEPARATION. RELOCATED WATER MAIN SHALL BE CONSTRUCTED OF AN AWWA APPROVED MATERIAL FOR POTABLE WATER CONVEYANCE AND DESIGNED FOR THE REQUIRED WATER SERVICE PRESSURE FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE CROSSING, MEASURED PERPENDICULAR TO THE SEWER. THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS.

WHERE CONDITIONS PREVENT AN 18-INCH VERTICAL SEPARATION FROM BEING MAINTAINED, THE FOLLOWING METHODS SHALL BE SPECIFIED:

- THE SEWER SHALL BE DESIGNED AND CONSTRUCTED EQUAL TO WATER MAIN PIPE (CEMENT-LINED DUCTILE IRON PIPE, PVC OR OTHER AWWA-APPROVED MATERIAL FOR POTABLE WATER CONVEYANCE) FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE CROSSING, MEASURED PERPENDICULAR TO THE WATER MAIN AND PRESSURE TESTED IN ACCORDANCE WITH AWWA SPECIFICATIONS OR
- EITHER THE WATER MAIN OR THE SEWER MAY BE ENCASED IN CONCRETE (MIN. 6-INCH THICKNESS) OR A CARRIER PIPE FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE CROSSING, MEASURED PERPENDICULAR TO THE WATER MAIN. THE CARRIER PIPE SHALL BE DESIGNED AND CONSTRUCTED OF MATERIALS WHICH ARE SATISFACTORY TO D.E.M., OR
- ANY OTHER METHODS, IF SUPPORTED BY DATA FROM THE DESIGN ENGINEER, WHICH ENSURE ADEQUATE WATER TIGHTNESS AND ARE SATISFACTORY TO D.E.M.

LEGEND

	PROPOSED CURB
	CUT & MATCH PAVEMENT
	COMPOST FILTER SOCK
	NEW CONCRETE
	100 YEAR FLOOD BOUNDARY
	FLOOD ZONE BOUNDARY
	50' WETLAND PERIMETER
	200' RIVERBANK PERIMETER
	FLAGGED WETLAND EDGE
	PROPERTY LINE
	ZONING BUILDING SETBACK LINE
	STREAM BANK

- (2.1.0)
- (2.3.0)
- (4.3.0)
- (4.4.0)
- (4.7.0)
- (5.3.0)
- (6.2.1)
- (6.3.4)
- (7.1.0)
- (7.1.1)
- (7.1.2)
- (7.1.3)
- (7.1.4)
- (7.1.9)
- (7.6.0)
- (8.3.0)
- (9.9.0)
- (20.1.0)
- (24.2.0)
- (24.6.0)
- (27.1.0)
- (43.1.0)
- (43.3.0)
- (43.3.1)
- (47.1.1)
- (48.1.0)
- (51.1.0)
- (CBLX)
- (CBP)
- (CG)
- (CS)
- (GFS)
- (DC)
- (DWH)
- (EOP)
- (2GV)
- (4GV)
- (6GV)
- (8GV)
- (LS)
- (LOD)
- (LOR)
- (RD)
- (NHF)
- (NPS)
- (RDF)
- (RDL)
- (RDP)
- (RDS)
- (RDT)
- (RUP)
- (SMH)
- (SB)
- (TB)
- (WCR)
- (4W)
- (6W)
- (4Y)
- (12W)
- (4DY)

DRAINAGE LEGEND

- (A) R.I. STD. 4.4.0(MOD.), PRECAST 4'-0" DIA OR 6'-0" DIA. CATCH BASIN, WITH 4'-0" DEEP SLUMP, R.I. STD. 6.3.4 FRAME AND GRATE
- (B) R.I. STD. 4.4.0(MOD.), PRECAST 4'-0" DIA OR 6'-0" DIA. CATCH BASIN, WITH 4'-0" DEEP SLUMP, R.I. STD. 6.4.0 ROUND FRAME AND GRATE
- (C) R.I. STD. 4.2.0, PRECAST 4'-0" DIA. MANHOLE, WITH R.I. STD. 6.2.1 FRAME AND COVER

LEGEND

- CONCRETE HEADWALLS FOR PIPE CULVERTS
- PRECAST CONCRETE FLARED END SECTION
- PRECAST 4'-0" OR 6'-0" SQUARE MANHOLE OR CATCH BASIN
- PRECAST 4'-0" OR 6'-0" ROUND CATCH BASIN
- TOP COVER FOR 4'-0" OR 6'-0" SQUARE MANHOLE OR CATCH BASIN
- CATCH BASIN AND MANHOLE STEP
- HEAVY-DUTY ROUND FRAME AND COVER
- HIGH CAPACITY FRAME AND GRATE (BICYCLE SAFE)
- PRECAST CONCRETE CURB
- 3' PRECAST CONCRETE TRANSITION CURB
- 6' PRECAST CONCRETE TRANSITION CURB
- PRECAST CONCRETE WHEELCHAIR RAMP TRANSITION CURB
- PRECAST 2'-0" RADIUS CORNER
- PRECAST CONCRETE RAMP STONE
- CURB SETTING DETAIL
- RIP - RAP DITCH
- CONSTRUCTION ACCESS
- PAVEMENT MARKINGS - ARROWS AND ONLY
- SIGN POST SELECTION AND INSTALLATION DETAIL
- PARKING SIGN MOUNTING DETAIL
- REGULATORY SIGNS
- CEMENT CONCRETE SIDEWALK
- WHEELCHAIR RAMP
- WHEELCHAIR RAMP FOR LIMITED RIGHT-OF-WAY AREAS
- TRANSVERSE PAVEMENT CUT AND MATCH
- DETECTABLE WARNING SYSTEM
- TREE PROTECTION DEVICE
- CONCRETE BLOCK WALL (SEE DETAIL)
- CATCH BASIN INLET PROTECTION
- CLEAR AND GRUB
- CURB STOP & BOX (SEE DETAIL)
- COMPOST FILTER SOCK
- REMOVE AND DISPOSE CONCRETE CURB
- DRIVEWAY ENTRANCE DETAIL (SEE GENERAL PLAN)
- EDGE OF NEW PAVEMENT
- 2" WATER GATE VALVE
- 4" WATER GATE VALVE
- 6" WATER GATE VALVE
- 8" WATER GATE VALVE
- 4" LOAM AND SEED
- LIMIT OF DISTURBANCE
- LIMIT OF REGRADING
- REMOVE AND DISPOSE
- NEW FIRE HYDRANT
- NEW PAVEMENT STRUCTURE
- REMOVE AND DISPOSE FENCE
- REMOVE AND DISPOSE LIGHT
- REMOVE AND DISPOSE PAVEMENT
- REMOVE AND DISPOSE SIGN
- REMOVE AND DISPOSE TREE
- RELOCATE UTILITY POLE (BY OTHERS)
- SANITARY SEWER MANHOLE (SEE DETAIL)
- STONE Baffle (SEE DETAIL)
- THRUST BLOCK
- WHEELCHAIR RAMP
- 4" EPOXY RESIN PAVEMENT MARKINGS - WHITE
- 6" EPOXY RESIN PAVEMENT MARKINGS - WHITE
- 4" EPOXY RESIN PAVEMENT MARKINGS - YELLOW
- 12" EPOXY RESIN PAVEMENT MARKINGS - WHITE
- 4" EPOXY RESIN PAVEMENT MARKINGS - DOUBLE YELLOW

PROJECT

PARKSIDE SHOPPING CENTER
PLAT 44 LOT 84

1530 HARTFORD AVENUE
JOHNSTON, RI

APPLICANT

PARKSIDE HOLDINGS, LLC
75 LAMBERT LIND HIGHWAY
WARWICK, RI 02886

DRAWING TITLE

NOTES AND LEGEND

REVISIONS

NO.	DATE	REVISIONS

PROJECT NO.: 1677

DATE: JUNE 2022

SCALE: NONE

DRAWN BY: JLH

CHECKED BY: TAR

DRAWING NUMBER

2

SHEET 2 OF 16

PROFESSIONAL ENGINEER

TODD A. RAYVENO
REG. NO. 5928
EXPIRES 12/31/2024

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

OFFICE OF WATER RESOURCES

FRESHWATER WETLANDS PROGRAM

APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL DATED: AUG 30 2022 FILE # 22-0248

NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL. APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

Nancy L. Freeman

RI Environmental Management

JUN 27 2022

Office of Water Resources

FILE:///C:/Users/Johnston/Desktop/Projects/Parkside/Parkside%20Holdings%20LLC/NOTES%20AND%20LEGEND.dwg 6/22/2022 10:21 PM, 11/16/2022

FLOOD NOTE
 ENTIRE AREA FALLS WITHIN ZONES 'AE', 'X' & 'SHADED X' PER FEMA FIRM MAP NUMBER 44003C02056, EFFECTIVE 12/3/10 AND 44007C0284H, MAP REVISED OCTOBER 2, 2015.

NOTES:
 RIDEM WETLAND APPLICATION 15-0266

REFERENCES:

- ALTA/ACSM LAND TITLE SURVEY "WESTGATE SHOPPING CENTER... ASSESSORS PLAT 44 LOT 86... PREPARED BY: DIPRETE ENGINEERING ASSOCIATES, INC... PREPARED FOR: WESTGATE PLAZA REALTY, LLC... JUNE 19, 1998... SCALE 1" = 50'..."
- FINAL ADMINISTRATIVE SUBDIVISION "FEDERAL WAY - THE GROVES AT JOHNSTON... ASSESSORS PLAT 44/3 LOTS 79 & 424... PREPARED BY: DIPRETE ENGINEERING ASSOCIATES, INC... PREPARED FOR: JOHNSTON GROVES, LLC... MARCH, 2006... SCALE 1" = 100'..."
- L.E. BOOK 118 PAGE 752-753, "PLAN OF LAND IN JOHNSTON, R.I. BELONGING TO ANTHONY PARRILLO ETUX AND... BY: N. M. VERDE..."
- L.E. BOOK 118 PAGE 754, "PLAN SHOWING LAND TO BE LEASED BY PARKSIDE REALTY CORP... BY: N.M. VERDE... NOV, 1970... SCALE 1" = 60'..."
- SLIDE #86, MISC. BK2 PG. 67, ALTA/ACSM LAND TITLE SURVEY PLAN... ATLANTIC DESIGN ENGINEERS, INC... OWNER: JOHNSTON RETIREMENT RESIDENCE LIMITED PARTNERSHIP... LOT 292... SCALE 1" = 60'..."
- PLAN OF LAND, WESTGATE SHOPPING CENTER... PREPARED BY: WATERMAN ENGINEERING CO... JUNE, 1988... SCALE 1" = 40'..."
- STATE HIGHWAY PLAT 305
- STATE HIGHWAY PLAT 263.3
- L.E. BOOK 2514 PAGE 178, 182, & 185 (SUBJECT PARCELS)
- L.E. BOOK 1622 PAGE 246, 247, L.E. 1953 PAGE 225, 226, 227, & 228 RIDOT CONDEMNATIONS
- L.E. BOOK 2277 PAGE 84, EASEMENT AGREEMENT

PARCEL ZONING

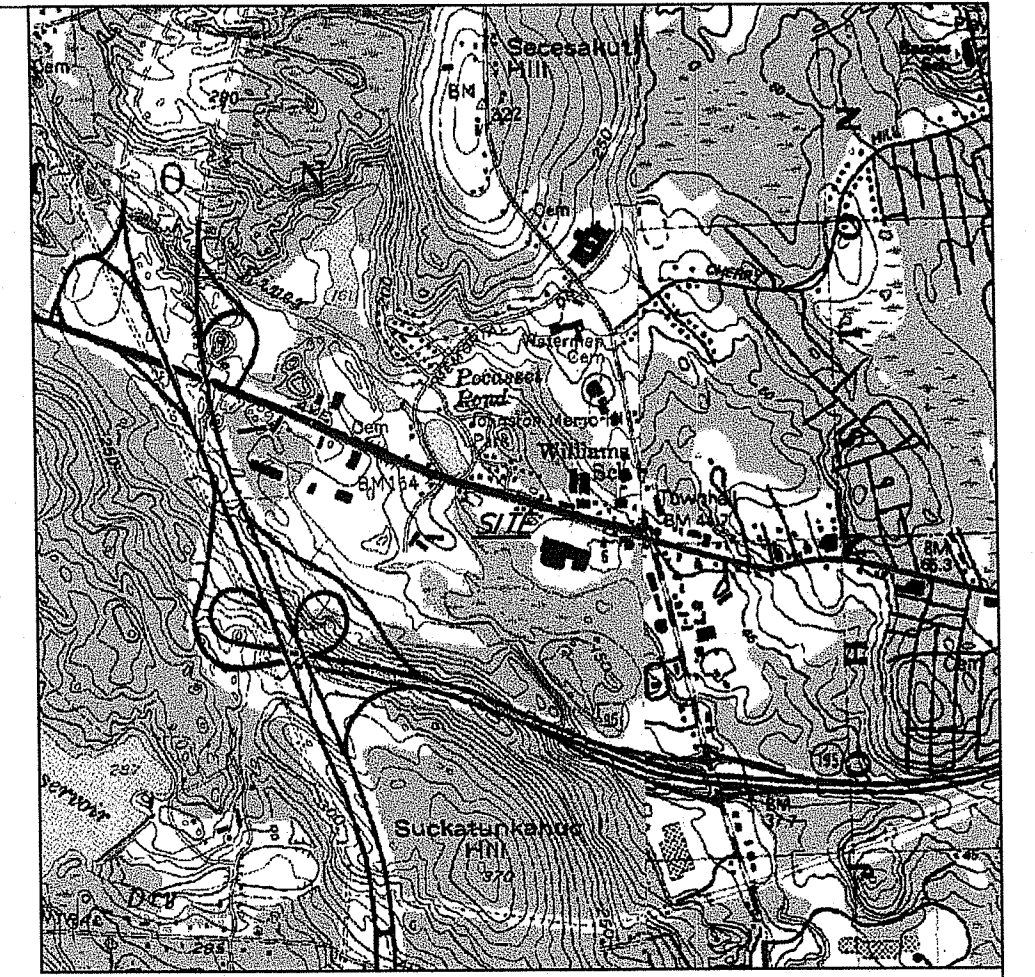
ZONE B2 (ROD) REDEVELOPMENT OVERLAY DISTRICT
 AREA MIN. - N/A
 WIDTH MIN. - N/A
 FRONT YARD MIN. - 20'
 SIDE YARD MIN. - 10'
 REAR YARD MIN. - 40'
 MAX. FLOORS - 6
 MAX. LOT BUILDING COVERAGE - 100%

PARCEL OWNERS

LOTS 84, 85, 295 & 355
 PARKSIDE HOLDING, LLC
 75 LAMBERT LIND HIGHWAY
 WARWICK, RI 02886

PROJECT SURVEYOR

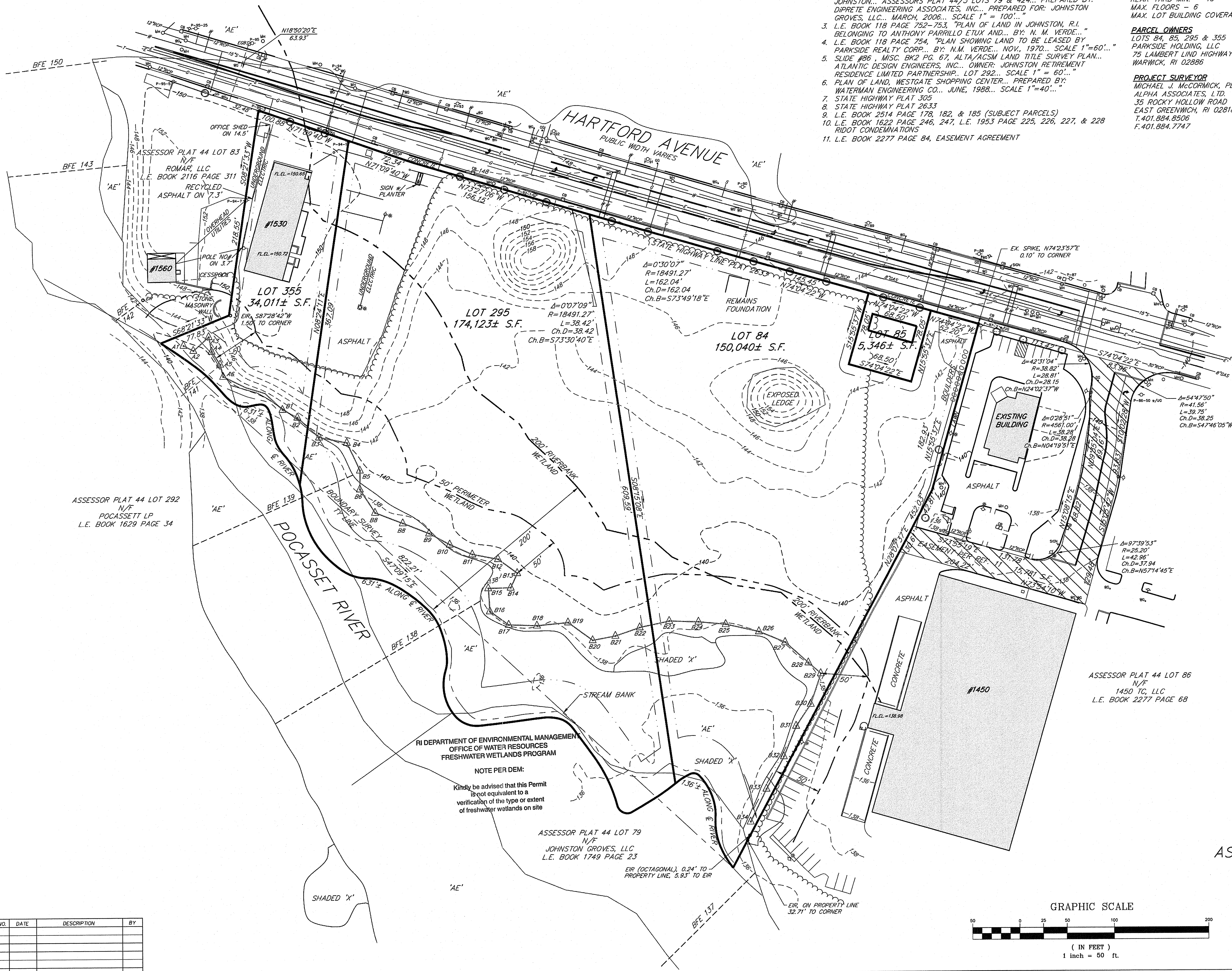
MICHAEL J. MCCORMICK, PLS 1972
 ALPHA ASSOCIATES, LTD.
 35 ROCKY HOLLOW ROAD
 EAST GREENWICH, RI 02818
 T.401.884.8506
 F.401.884.7747



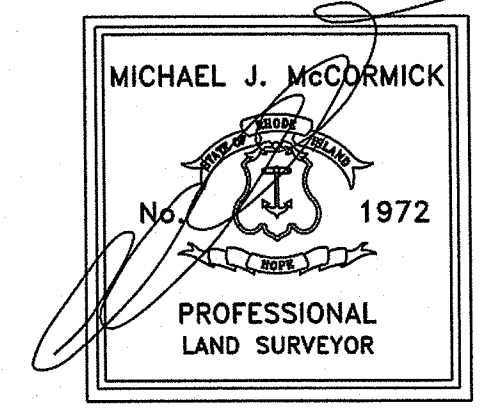
LOCUS 1"=2,000'

LEGEND

- △ A1 EXISTING WETLAND FLAG
- P-36 EXISTING UTILITY POLE
- P-36 EXISTING LIGHT POLE
- EXISTING HYDRANT
- EXISTING WATER GATE
- EXISTING GAS GATE
- EXISTING CATCH BASIN
- EXISTING MANHOLE
- EXISTING IRON ROD
- SET MAGNAIL
- EXISTING GRANITE BOUND
- EXISTING SPIKE
- EXISTING TREE
- 300 EXISTING CONTOUR
- 50' PERIMETER WETLAND
- 200' RIVERBANK WETLAND
- EXISTING EDGE OF WOODS
- EXISTING ELECTRIC LINE
- EXISTING TELEPHONE LINE
- EXISTING GAS LINE
- EXISTING WATER LINE
- EXISTING SEWER LINE
- EXISTING DRAINAGE LINE
- FLOOD ZONE BOUNDARY
- BASE FLOOD ELEVATION
- ZONING SETBACK LINE

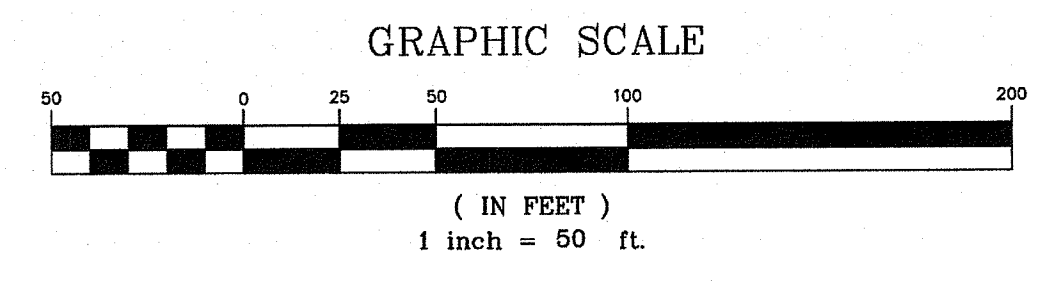


RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS
 SPECIFIED IN THE LETTER OF APPROVAL
 DATED: AUG 3 0 2022 FILE #: 22-0268
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman



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 NOVEMBER 25, 2015, AS FOLLOWS:
 TYPE OF SURVEY: COMPREHENSIVE BOUNDARY SURVEY MEASUREMENT SPECIFICATION: CLASS I
 DATA ACCURACY SURVEY CLASS III
 TOPOGRAPHY SURVEY ACCURACY CLASS 1-2
 THE PURPOSE FOR THE CONDUCT OF THE SURVEY IS TO DEPICT THE EXISTING CONDITIONS OF THE PARCELS.
 By: *Michael J. McCormick*
 MICHAEL J. MCCORMICK PLS 1972
 RI COA LS-A101

EXISTING CONDITIONS PLAN
 ASSESSORS PLAT 44 LOTS 84, 85, 295 & 355
 JOHNSTON, RHODE ISLAND
 HARTFORD AVENUE
 PREPARED FOR: PICERNE REAL ESTATE GROUP
 PREPARED BY: ALPHA ASSOCIATES, LTD.
 35 ROCKY HOLLOW ROAD
 EAST GREENWICH, RHODE ISLAND 02818
 T.401.884.8506 F.401.884.7747
 SCALE: 1"=50' AUGUST, 2016 SHEET 3 OF 15



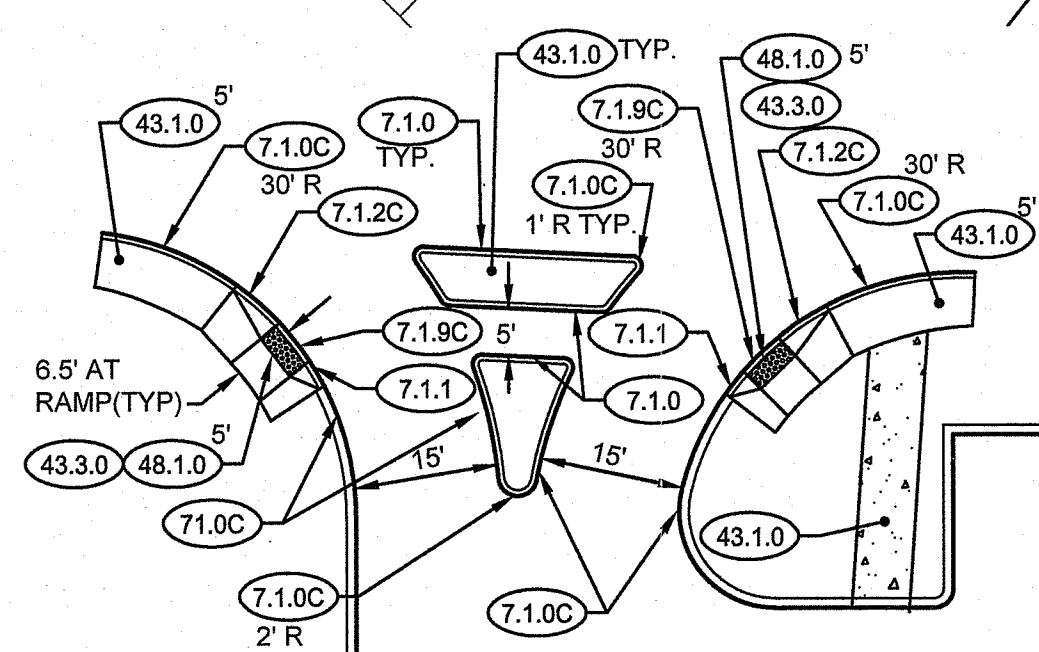
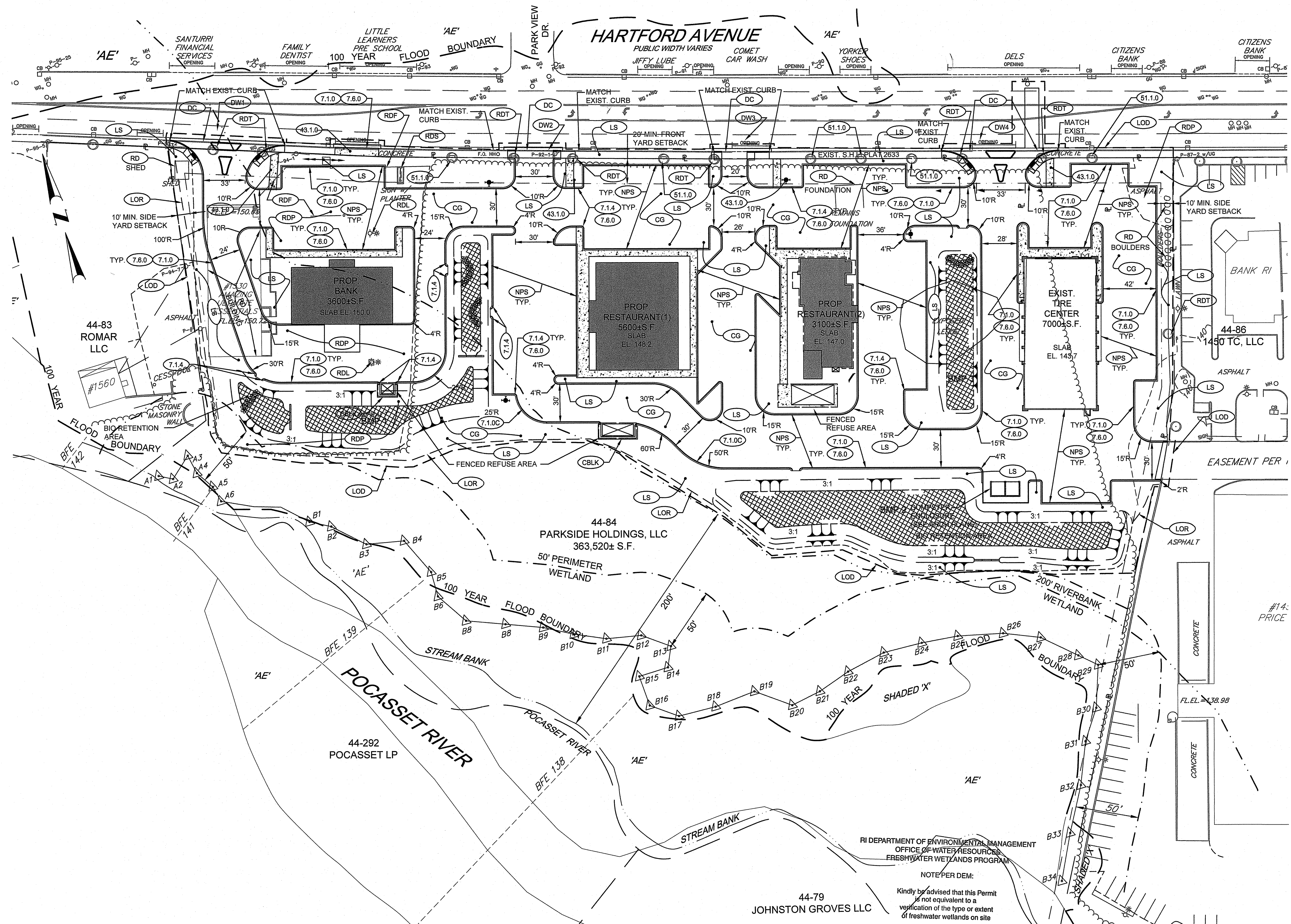
NO.	DATE	DESCRIPTION	BY

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 NOTE PER DEM:
 Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site

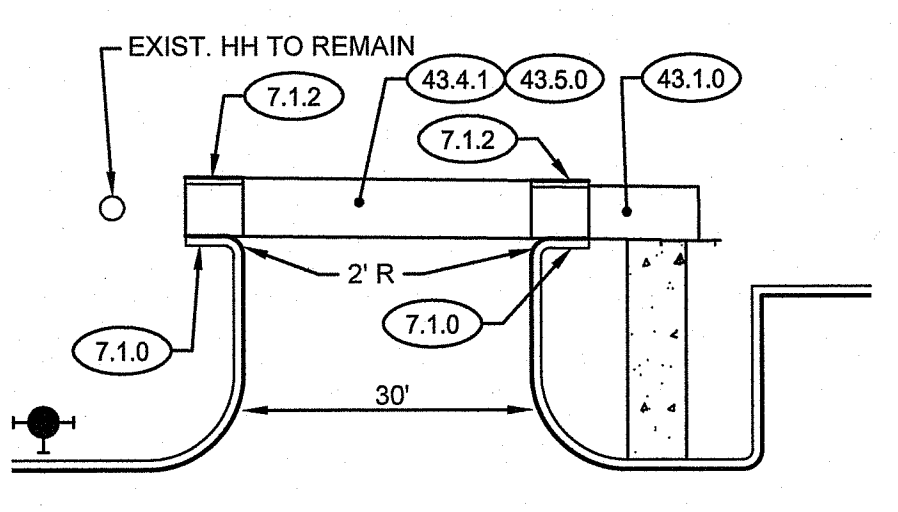
ASSESSOR PLAT 44 LOT 79
 N/F
 JOHNSTON GROVES, LLC
 L.E. BOOK 1749 PAGE 23
 EIR (OCTAGONAL), 0.24' TO PROPERTY LINE, 3.93' TO EIR

ASSESSOR PLAT 44 LOT 86
 N/F
 1450 TC, LLC
 L.E. BOOK 2277 PAGE 68

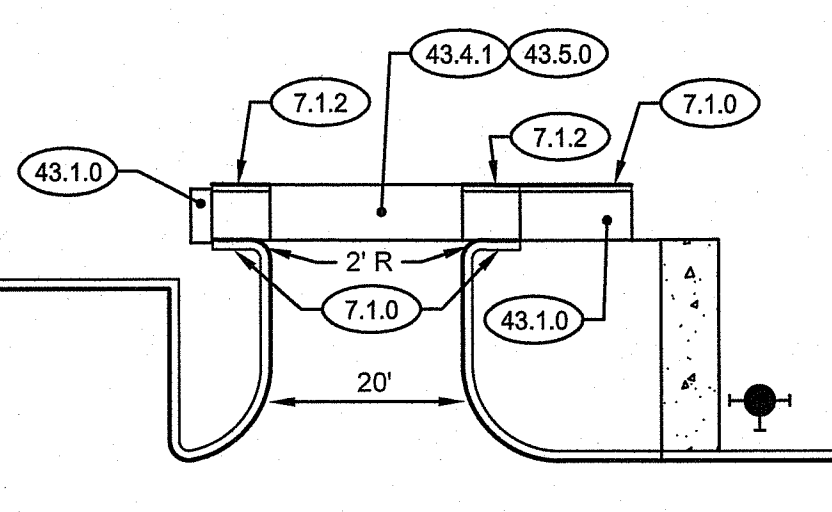
RI Environmental Management
 JUN 27 2022
 Office of Water Resources



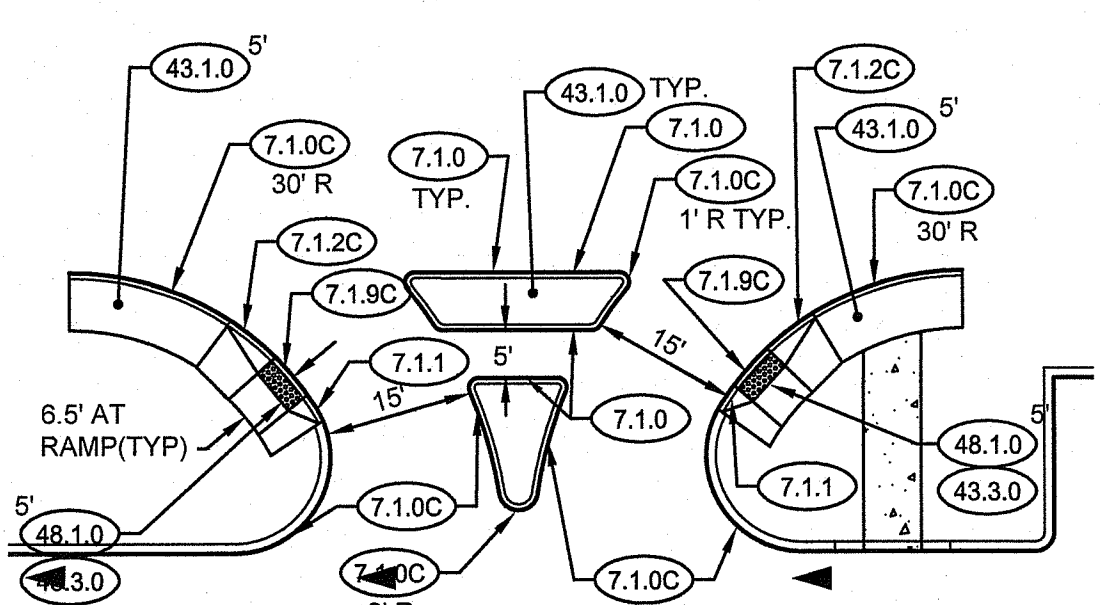
DRIVEWAY DETAIL DW1
SCALE: 1" = 20'



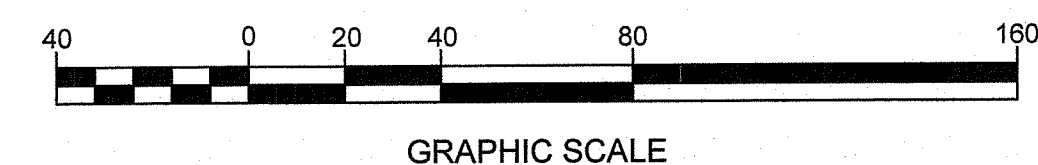
DRIVEWAY DETAIL DW2
SCALE: 1" = 20'



DRIVEWAY DETAIL DW3
SCALE: 1" = 20'



DRIVEWAY DETAIL DW4
SCALE: 1" = 20'

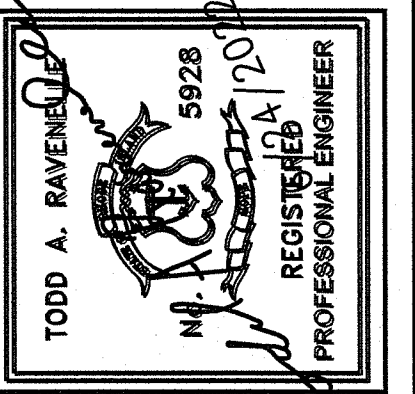


RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: AUG 30 2022 FILE #: 22-0268
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Nancy L. Freeman

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
NOTE PER DEM:
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PROJECT
PARKSIDE SHOPPING CENTER
PLAT 44 LOT 84
1530 HARTFORD AVENUE
JOHNSTON, RI



APPLICANT
PARKSIDE HOLDINGS, LLC
75 LAMBERT LIND HIGHWAY
WARWICK, RI 02886



DRAWING TITLE
GENERAL PLAN

NO.	DATE	REVISIONS	BY

PROJECT NO.: 1677

DATE: JUNE 2022

SCALE: 1" = 40'

DRAWN BY: JLH

CHECKED BY: TAR

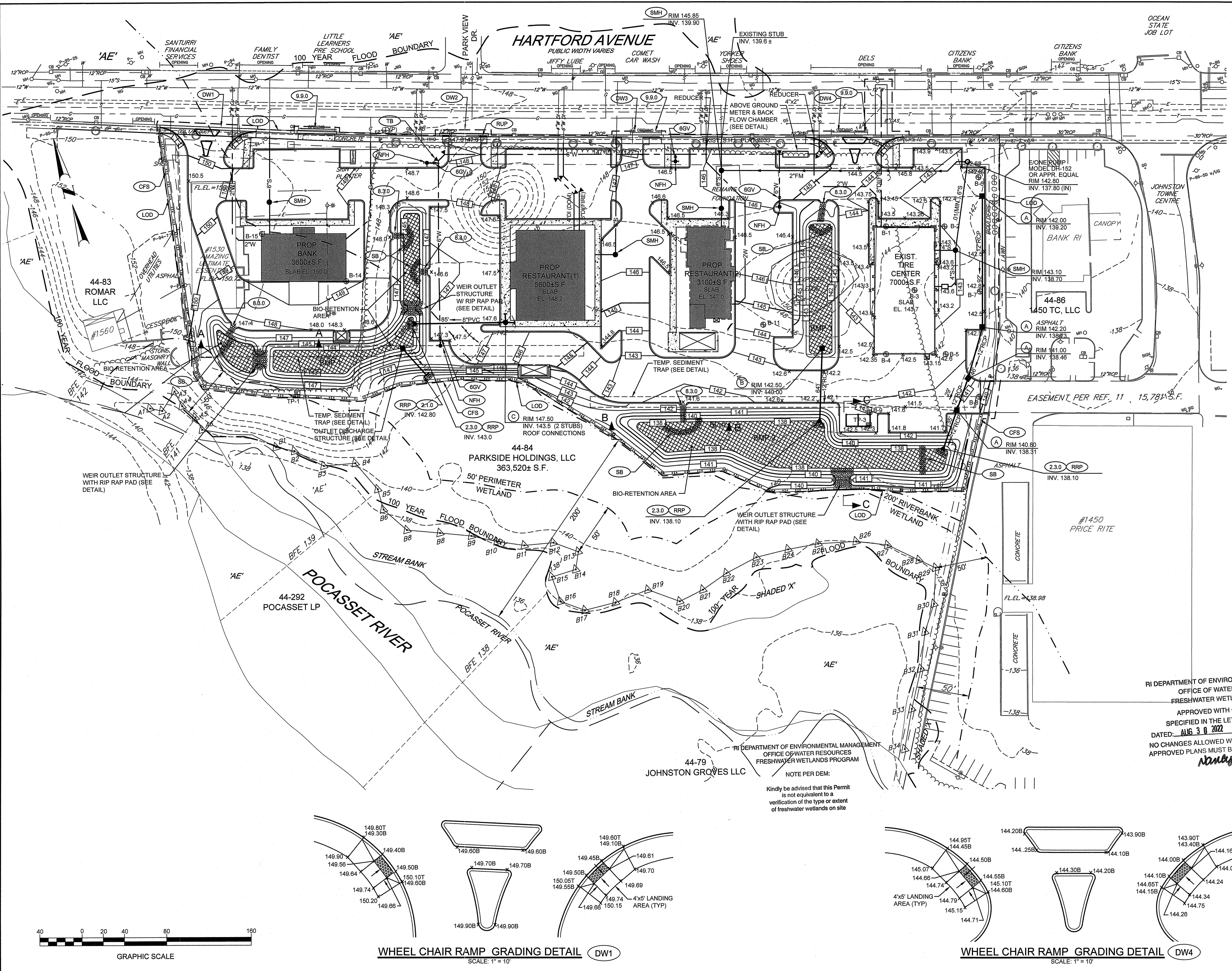
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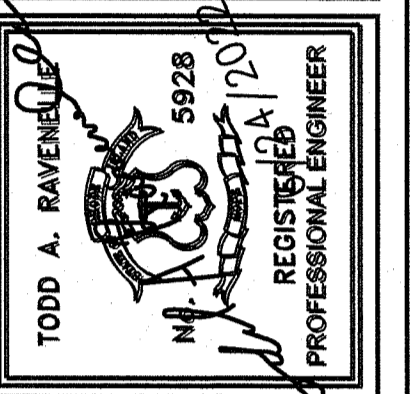
SHEET 4 OF 16

RI Environmental Management
JUN 27 2022
Office of Water Resources

P:\FILES\CAV\STP\Plan\PlanFinal\DESIGN\GENERAL PLAN\FINAL DESIGN.dwg, 02/20/2022, 1:58:20 PM, MFM:mcm



PROJECT
PARKSIDE SHOPPING CENTER
 PLAT 44 LOT 84
 1530 HARTFORD AVENUE
 JOHNSTON, RI



APPLICANT
PARKSIDE HOLDINGS, LLC
 75 LAMBERT LINN HIGHWAY
 WARWICK, RI 02886



DRAWING TITLE
GRADING PLAN / EROSION CONTROL

NO.	DATE	REVISIONS	BY

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS
 SPECIFIED IN THE LETTER OF APPROVAL
 DATED: AUG 30 2022 FILE # 22-0268
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 APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

RI Environmental Management
 JUN 27 2022
 Office of Water Resources

PROJECT NO.: 1677

DATE: JUNE 2022

SCALE: 1" = 40'

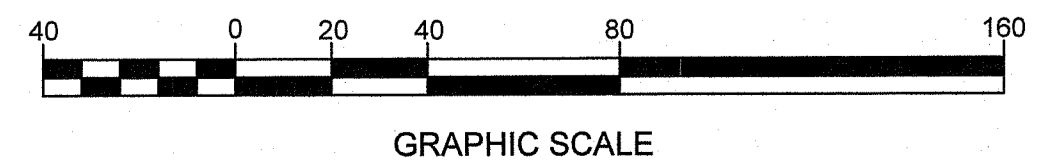
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CHECKED BY: TAR

DRAWING NUMBER

5

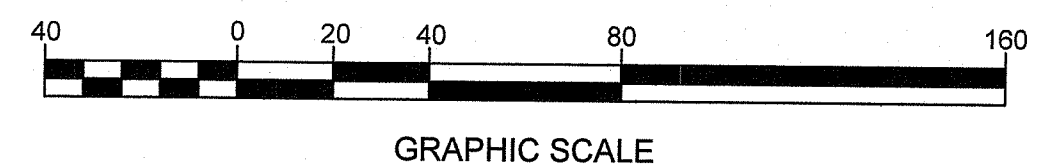
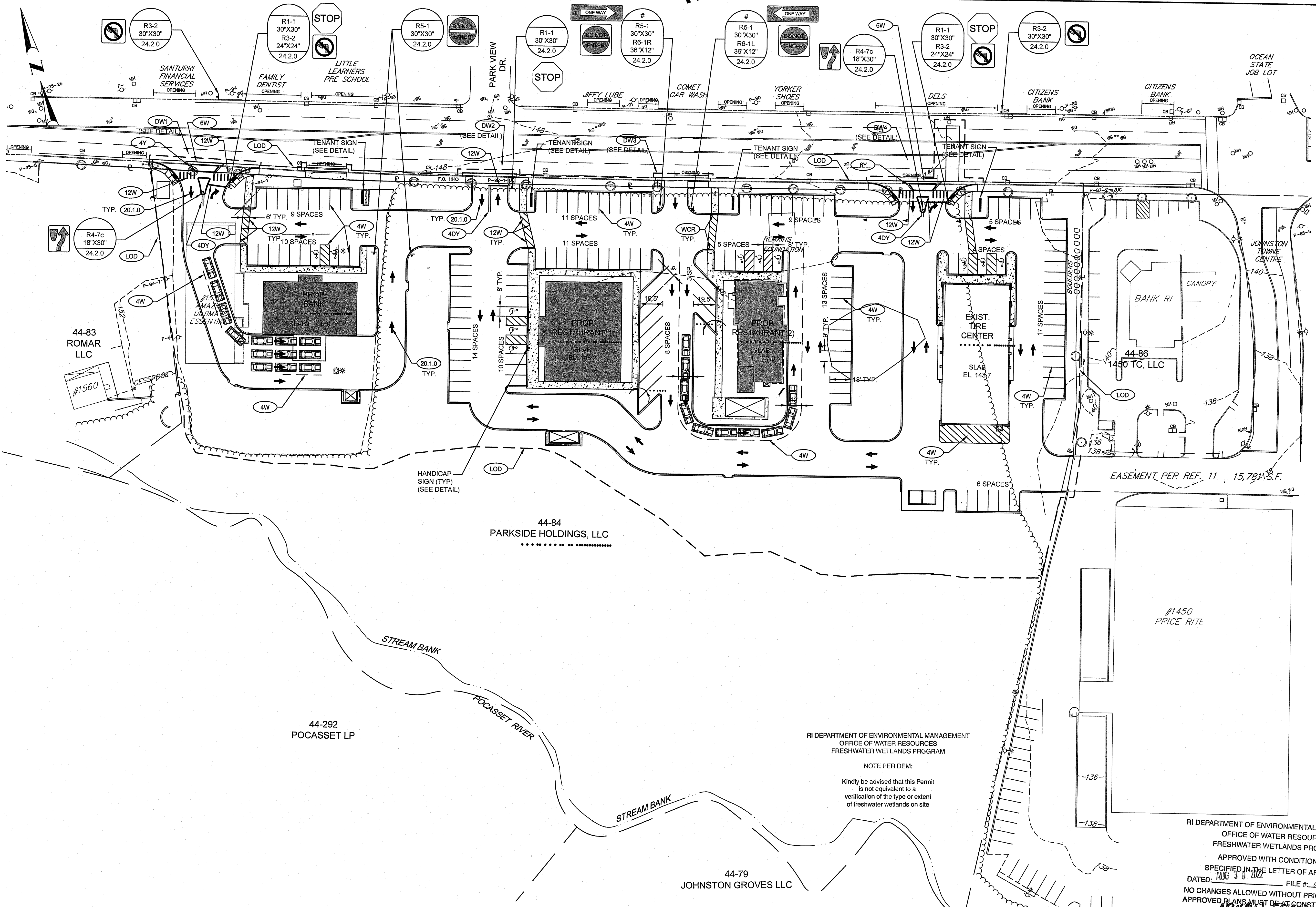
SHEET 5 OF 16



WHEEL CHAIR RAMP GRADING DETAIL DW1
 SCALE: 1" = 10'

WHEEL CHAIR RAMP GRADING DETAIL DW4
 SCALE: 1" = 10'

NOTE PER DEM:
 Kindly be advised that this Permit
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 of freshwater wetlands on site



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED: AUG 30 2022 FILE #: 22-0268
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
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Nancy L. Freeman

PARKING REQUIREMENTS					
PROPOSED SPACE	USE	USE REQUIREMENTS	BUILDING AREA (+/-SF)	PARKING SPACES REQUIRED	PARKING SPACES PROVIDED
TIRE CENTER	RETAIL/COMMERCIAL	3/1000 S.F.	7,000	21	32
BANK	BANK	3/1000 S.F.	3,600	11	19
RESTAURANT #1	RESTAURANT (SAY 180 SEATS)	1/4 SEATS + 20%	5,600	54	54
RESTAURANT #2	RESTAURANT (SAY 99 SEATS)	1/4 SEATS + 20%	3,100	30	30
			TOTAL	116	135

RI Environmental Management
 JUN 27 2022
 Office of Water Resources

PROJECT
PARKSIDE SHOPPING CENTER
 PLAT 44 LOT 84
 1530 HARTFORD AVENUE
 JOHNSTON, RI

TODD A. RAVENHILL
 5928
 REGISTERED PROFESSIONAL ENGINEER

APPLICANT
PARKSIDE HOLDINGS, LLC
 75 LAMBERT LIND HIGHWAY
 WARWICK, RI 02886

DRAWING TITLE
SIGNING AND STRIPING PLAN

NO.	DATE	BY	REVISIONS

PROJECT NO.: 1677

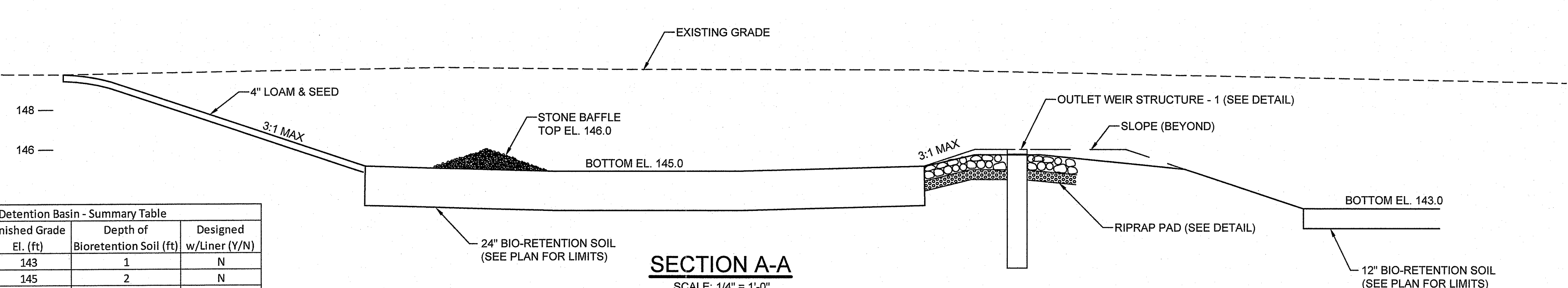
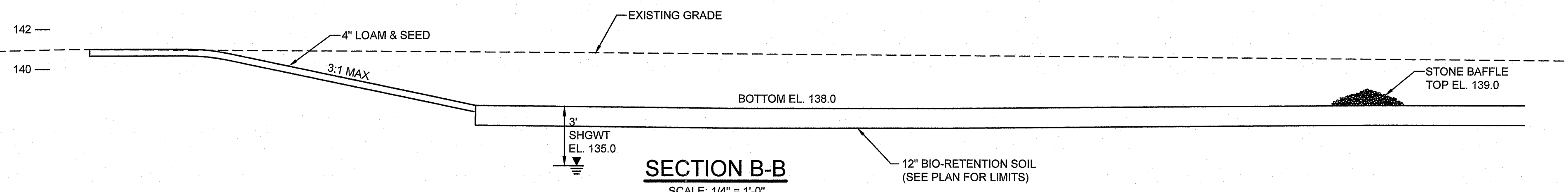
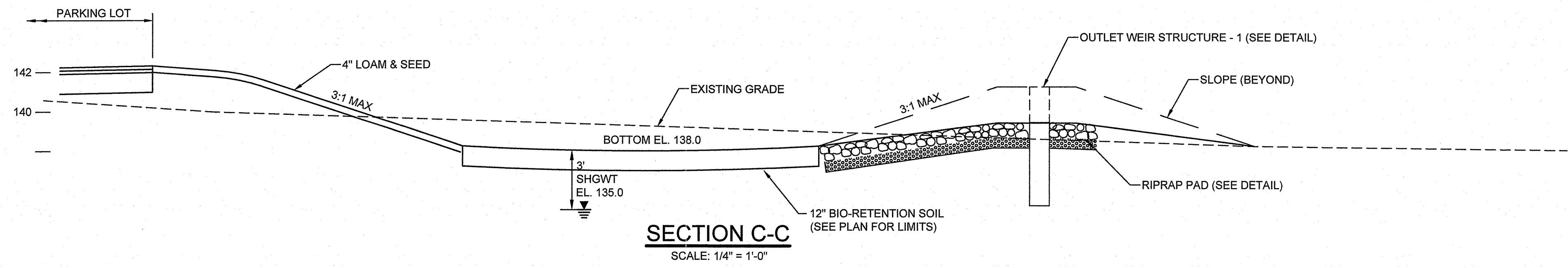
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SCALE: 1" = 40'

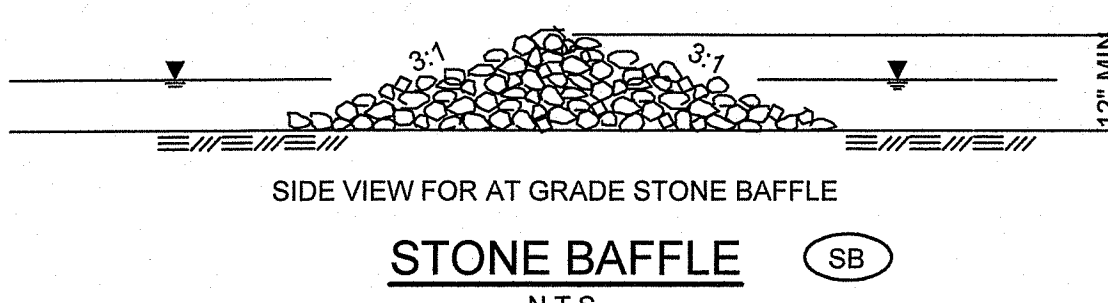
DRAWN BY: JLH

CHECKED BY: TAR

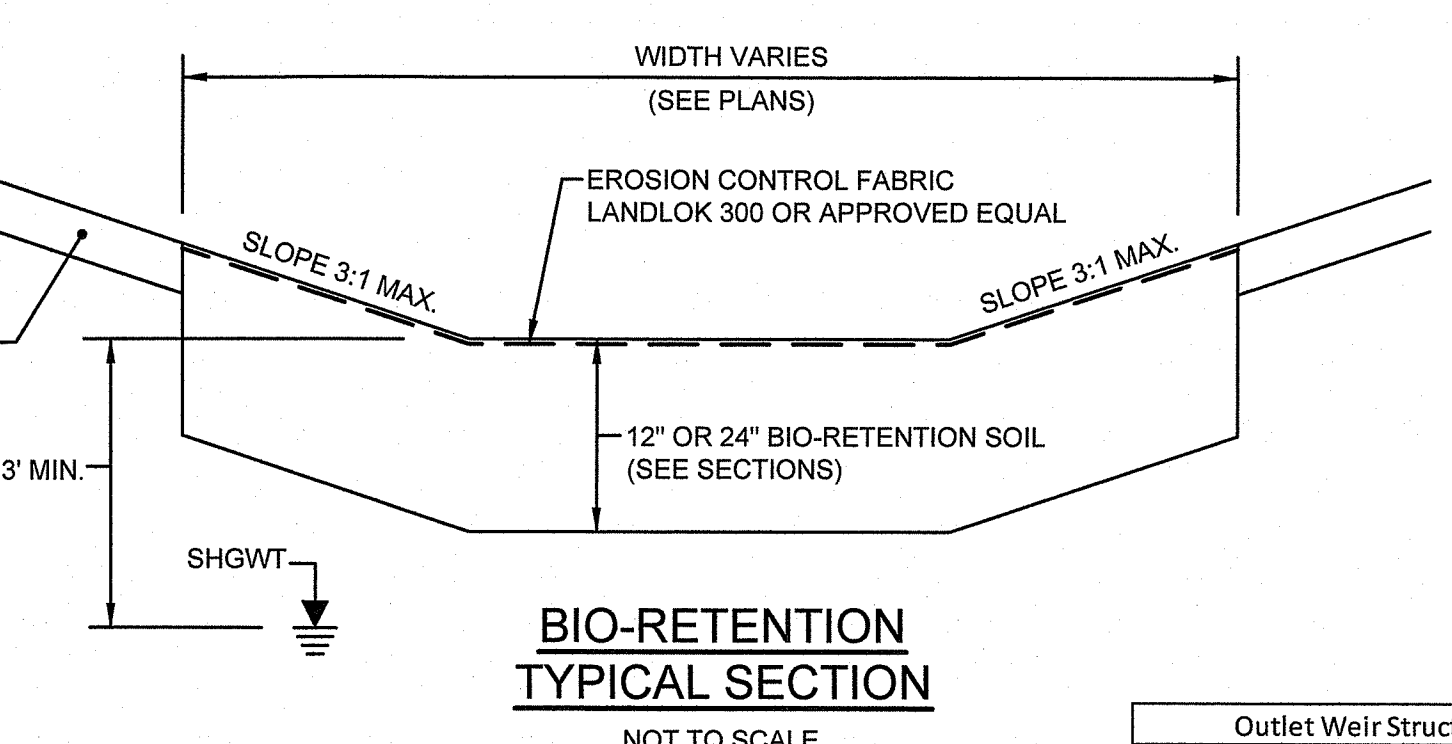
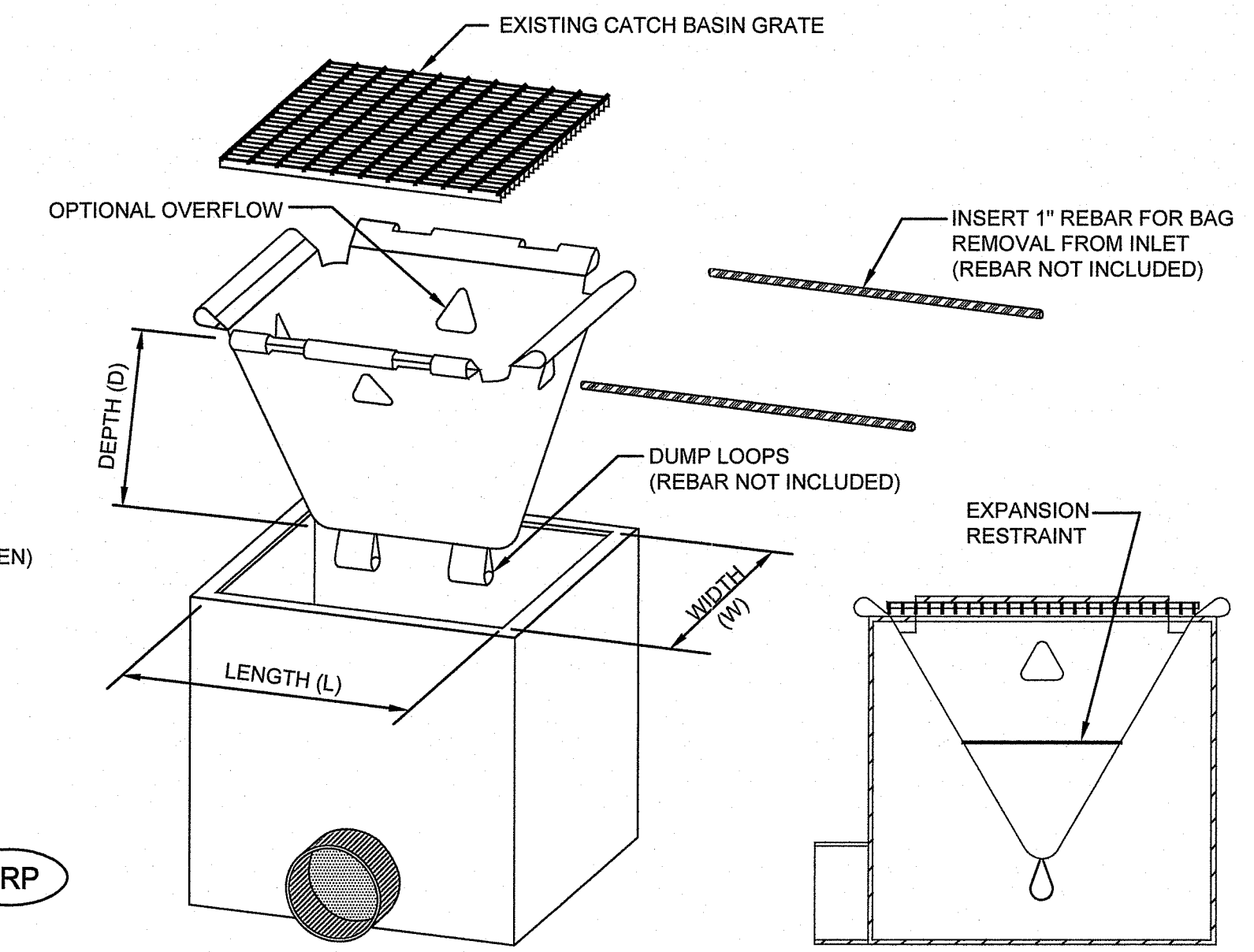
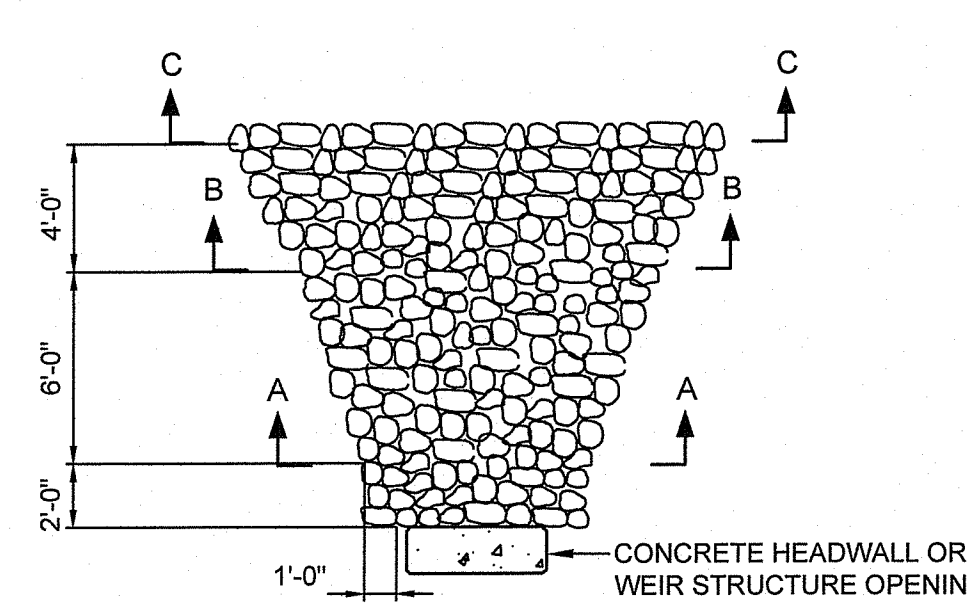
DRAWING NUMBER
6
 SHEET 6 OF 16



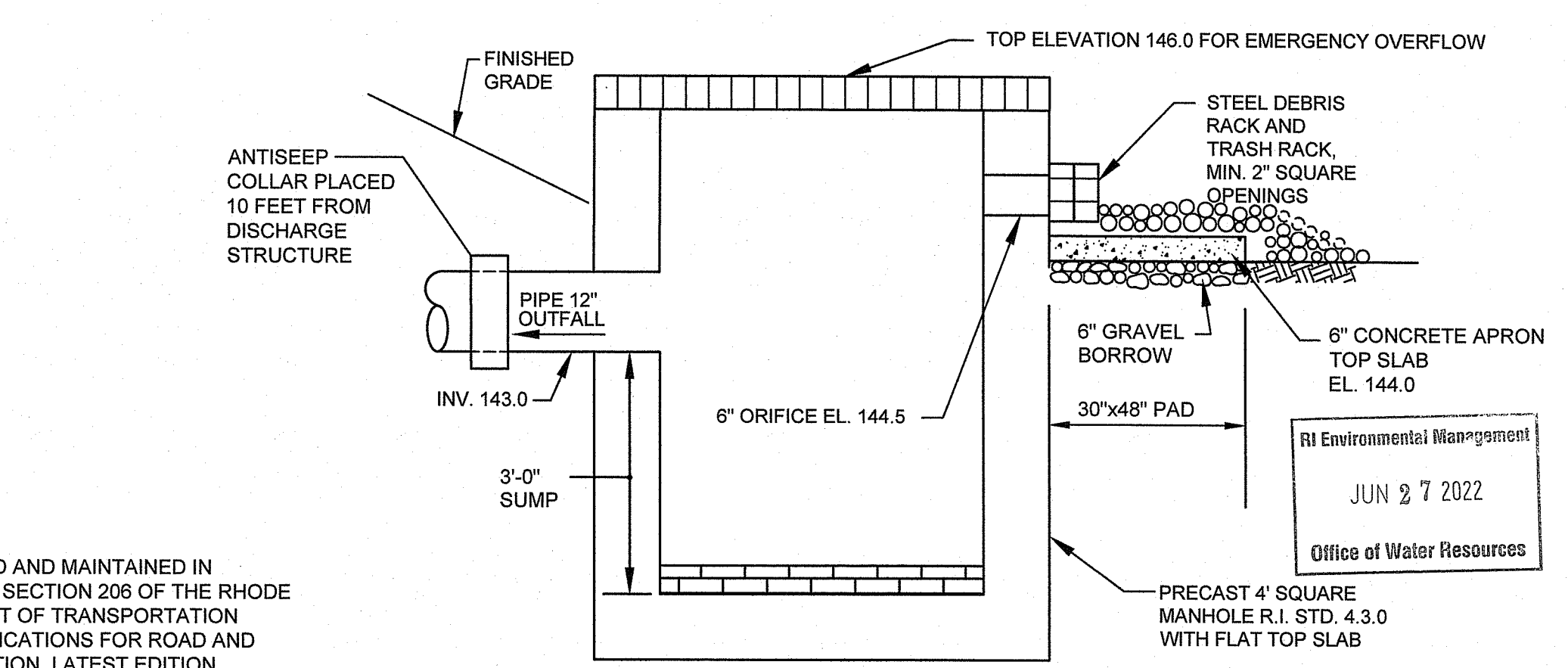
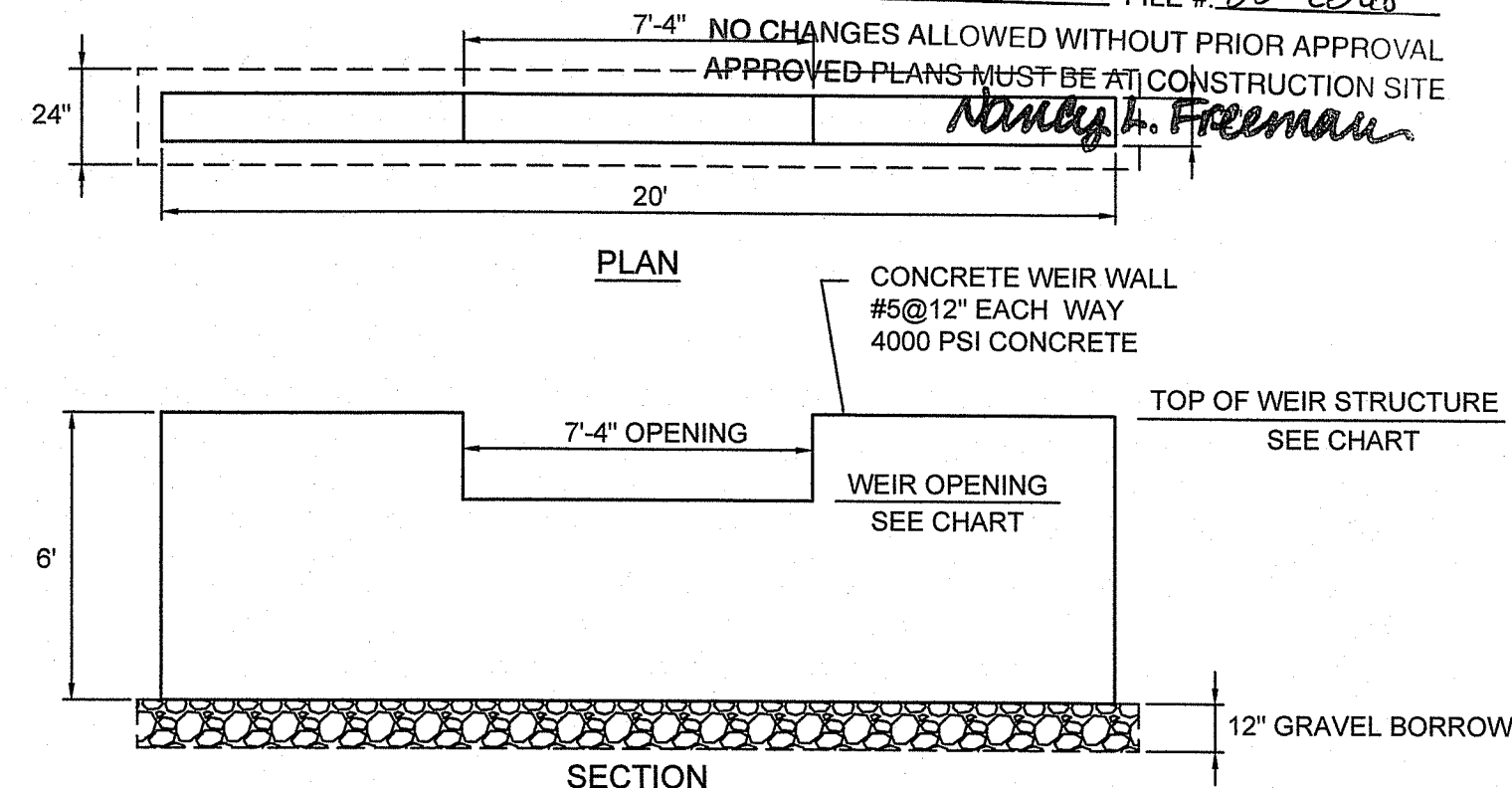
BMP #	SHGW Elevation (ft)	Finished Grade El. (ft)	Depth of Bioretention Soil (ft)	Designed w/Liner (Y/N)
1	-	143	1	N
2	135	145	2	N
3	135	138	1	N
3	135	142	1	N



- NOTES**
- STONE SHALL MEET THE REQUIREMENTS FOR CRUSHED STONE IN SECTION M.01 BORROW AND AGGREGATES OF THE RIDOT STANDARD SPECIFICATION OR CONSIST ENTIRELY OF 2"-3" STONE.
 - HAND OR MECHANICAL PLACEMENT WILL BE NECESSARY TO CONSTRUCT BAFFLE.



BMP #	Weir Opening Elevation (ft)	Top of Weir Structure El. (ft)
1	145.75	146.25
2	139.25	141



OUTLET DISCHARGE STRUCTURE
N.T.S.

BIORETENTION / SAND FILTER NOTES:

- THE USDA TEXTURAL CLASSIFICATION OF THE PLANTING SOIL FOR THE BSM SHALL BE LOAMY SAND OR SANDY LOAM. THE PLANTING SOIL SHALL BE SALVAGED OR FURNISHED. ADDITIONALLY, THE PLANTING SOIL SHALL BE TESTED AND MEET THE FOLLOWING CRITERIA:

ITEM	PERCENT BY WEIGHT	TEST METHOD
SAND (2.0 - 0.050 MM)	85 - 88%	AASHTO T88
SILT (0.050 - 0.002 MM)	0 - 12%	AASHTO T88
CLAY (LESS THAN 0.002 MM)	0 - 2%	AASHTO T88
ORGANIC MATTER	3 - 5%	AASHTO T194

 THE TEXTURAL ANALYSIS FOR THE PLANTING SOIL SHALL BE AS FOLLOWS:

ASTM E11 SIEVE SIZE	MINIMUM % PASSING BY WEIGHT
2 IN.	100
NO. 4	90
NO. 10	80
- AT LEAST 45 DAYS PRIOR TO THE START OF CONSTRUCTION OF BIORETENTION FACILITIES, THE CONTRACTOR SHALL SUBMIT THE SOURCE OF THE PLANTING SOIL FOR THE BSM TO THE ENGINEER FOR APPROVAL. NO TIME EXTENSIONS WILL BE GRANTED SHOULD THE PROPOSED PLANTING SOIL FAIL TO MEET THE MINIMUM REQUIREMENTS STATED ABOVE. ONCE A STOCKPILE OF THE PLANTING SOIL HAS BEEN SAMPLED, NO MATERIAL SHALL BE ADDED TO THE STOCKPILE.
- THE BIORETENTION SOIL MIXTURE (BSM) SHALL BE A UNIFORM MIX, FREE OF STONES, STUMPS, ROOTS OR OTHER SIMILAR OBJECTS LARGER THAN TWO INCHES EXCLUDING MULCH. NO OTHER MATERIALS OR SUBSTANCES SHALL BE MIXED OR DUMPED WITHIN THE BIORETENTION AREA THAT MAY BE HARMFUL TO PLANT GROWTH, OR PROVE A HINDRANCE TO THE PLANTING OR MAINTENANCE OPERATIONS.
- THE BIORETENTION SOIL MIXTURE SHALL BE TESTED AND SHALL MEET THE FOLLOWING CRITERIA:

ITEM	CRITERIA
CORRECTED PH	5.5 - 7.5
MAGNESIUM MINIMUM	32 PPM
PHOSPHORUS (PHOSPHATE - P2O5)	NOT TO EXCEED 69 PPM
POTASSIUM (K2O)	MINIMUM 78 PPM
SOLUBLE SALTS	NOT TO EXCEED 500 PPM
- SHOULD THE PH FALL OUTSIDE OF THE ACCEPTABLE RANGE, IT MAY BE MODIFIED WITH LIME (TO RAISE) OR IRON SULFATE PLUS SULFUR (TO LOWER). THE LIME OR IRON SULFATE MUST BE MIXED UNIFORMLY INTO THE BSM PRIOR TO USE IN BIORETENTION FACILITIES. SHOULD THE BSM NOT MEET THE MINIMUM REQUIREMENT FOR MAGNESIUM, IT MAY BE MODIFIED WITH MAGNESIUM SULFATE. LIKEWISE, SHOULD THE BSM NOT MEET THE MINIMUM REQUIREMENT FOR POTASSIUM, IT MAY BE MODIFIED WITH POTASH. MAGNESIUM SULFATE AND POTASH MUST BE MIXED UNIFORMLY INTO THE BSM PRIOR TO USE IN BIORETENTION FACILITIES.
- PLANTING SOIL AND/OR BSM THAT FAILS TO MEET THE MINIMUM REQUIREMENTS SHALL BE REPLACED AT NO ADDITIONAL COST. MIXING OF THE CORRECTIVE ADDITIVES TO THE BSM IS INCIDENTAL AND SHALL BE AT NO ADDITIONAL COST.
- MIXING OF THE BSM TO A HOMOGENEOUS CONSISTENCY SHALL BE THE RESPONSIBILITY OF THE ENGINEER.

APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED: 6/3/2022 FILE #: 22-0168
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE
 Todd A. Ravener
 REGISTERED PROFESSIONAL ENGINEER

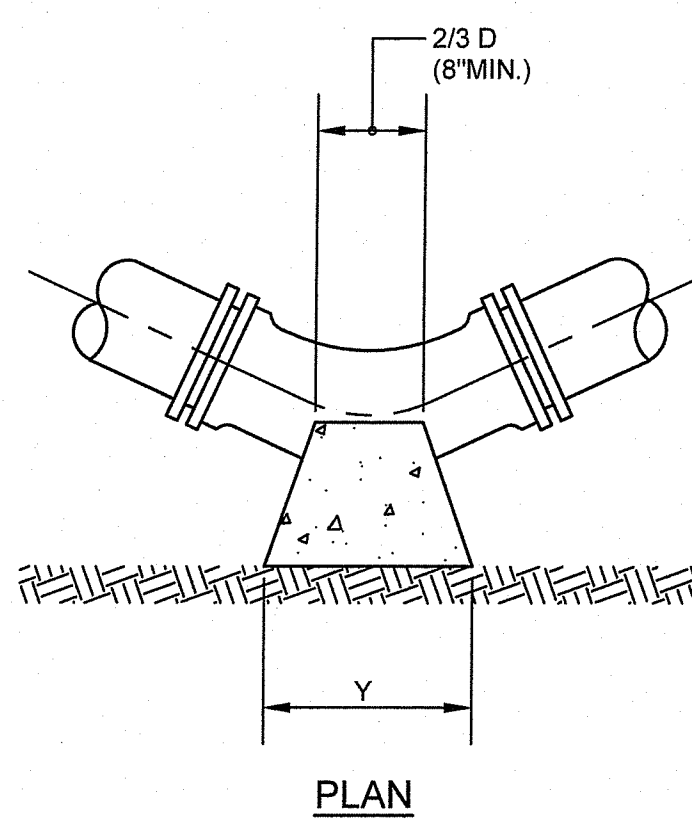
PROJECT
 PARKSIDE SHOPPING CENTER
 PLAT 44 LOT 84
 1530 HARTFORD AVENUE
 JOHNSTON, RI

APPLICANT
 PARKSIDE HOLDINGS, LLC
 75 LAMBERT LIND HIGHWAY
 WARWICK, RI 02886

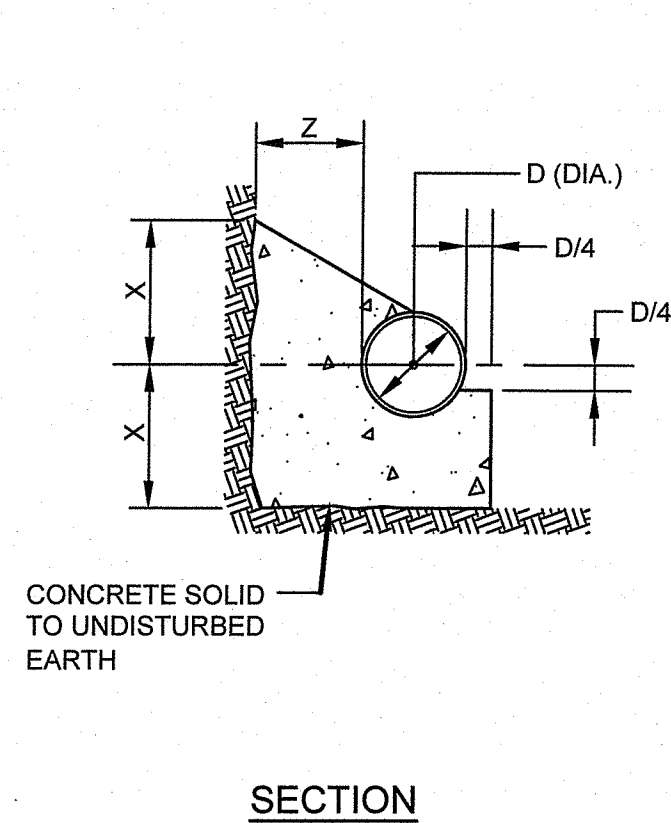
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 DETAILS - 1

NO.	DATE	REVISIONS	BY

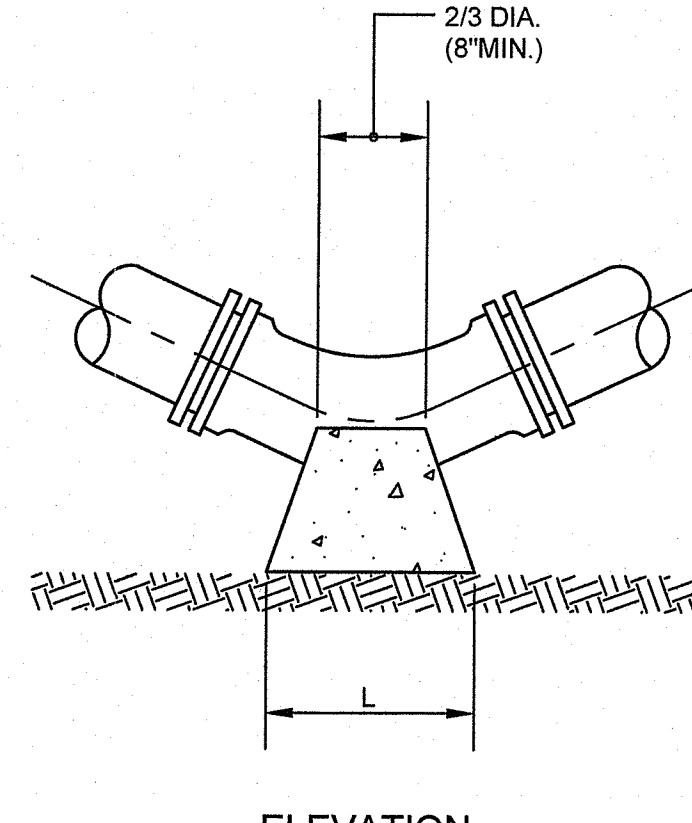
PROJECT NO.: 1677
 DATE: JUNE 2022
 SCALE: AS NOTED
 DRAWN BY: JLH
 CHECKED BY: TAR
 DRAWING NUMBER
 7
 SHEET 7 OF 16



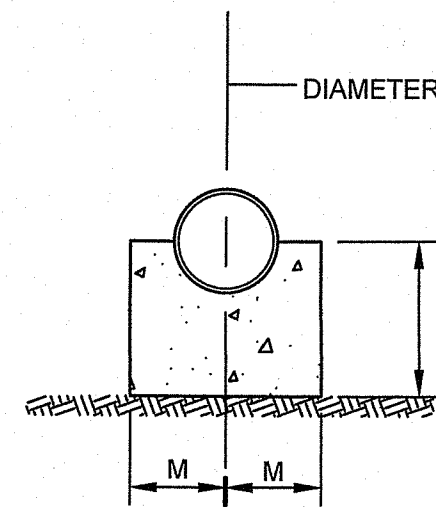
HORIZONTAL BENDS



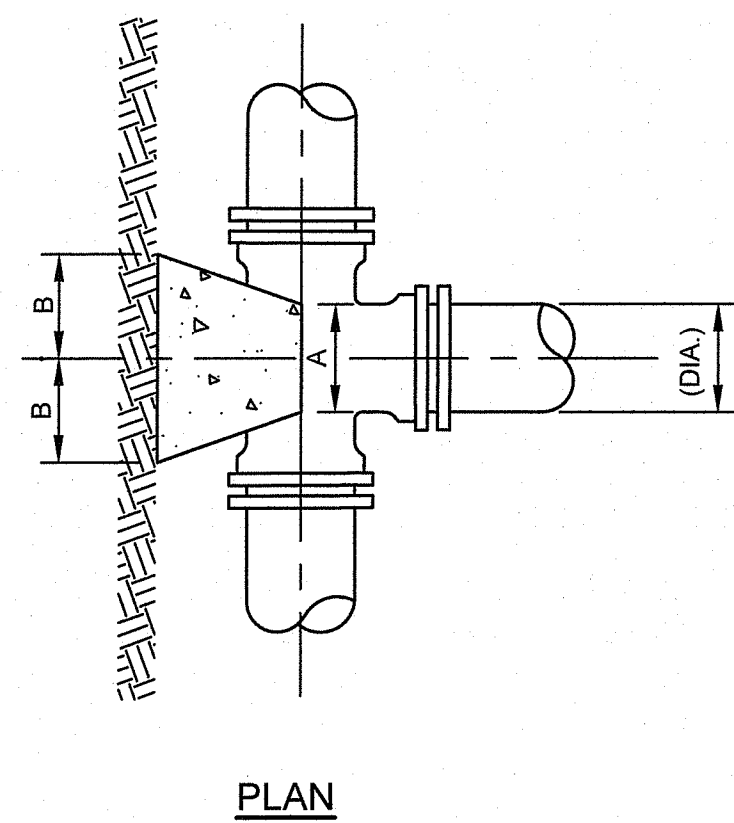
SECTION



VERTICAL BENDS

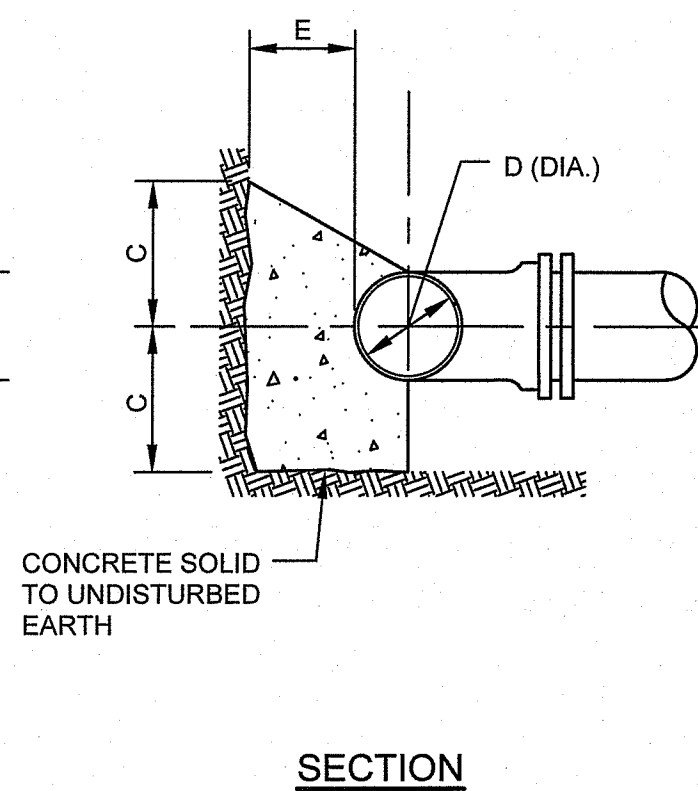


SECTION

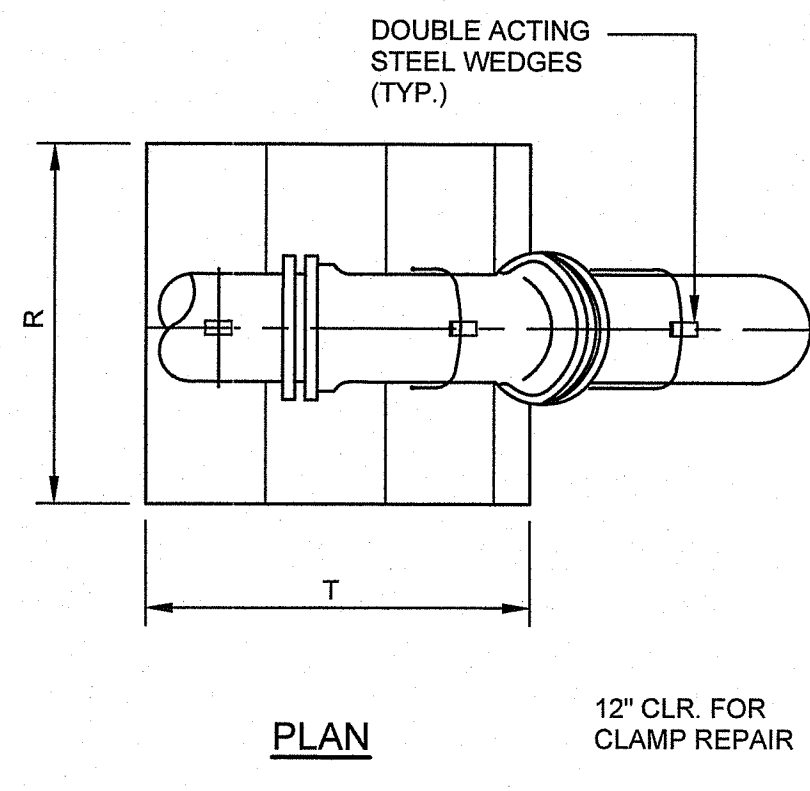


PLAN

TEES and END CAPS

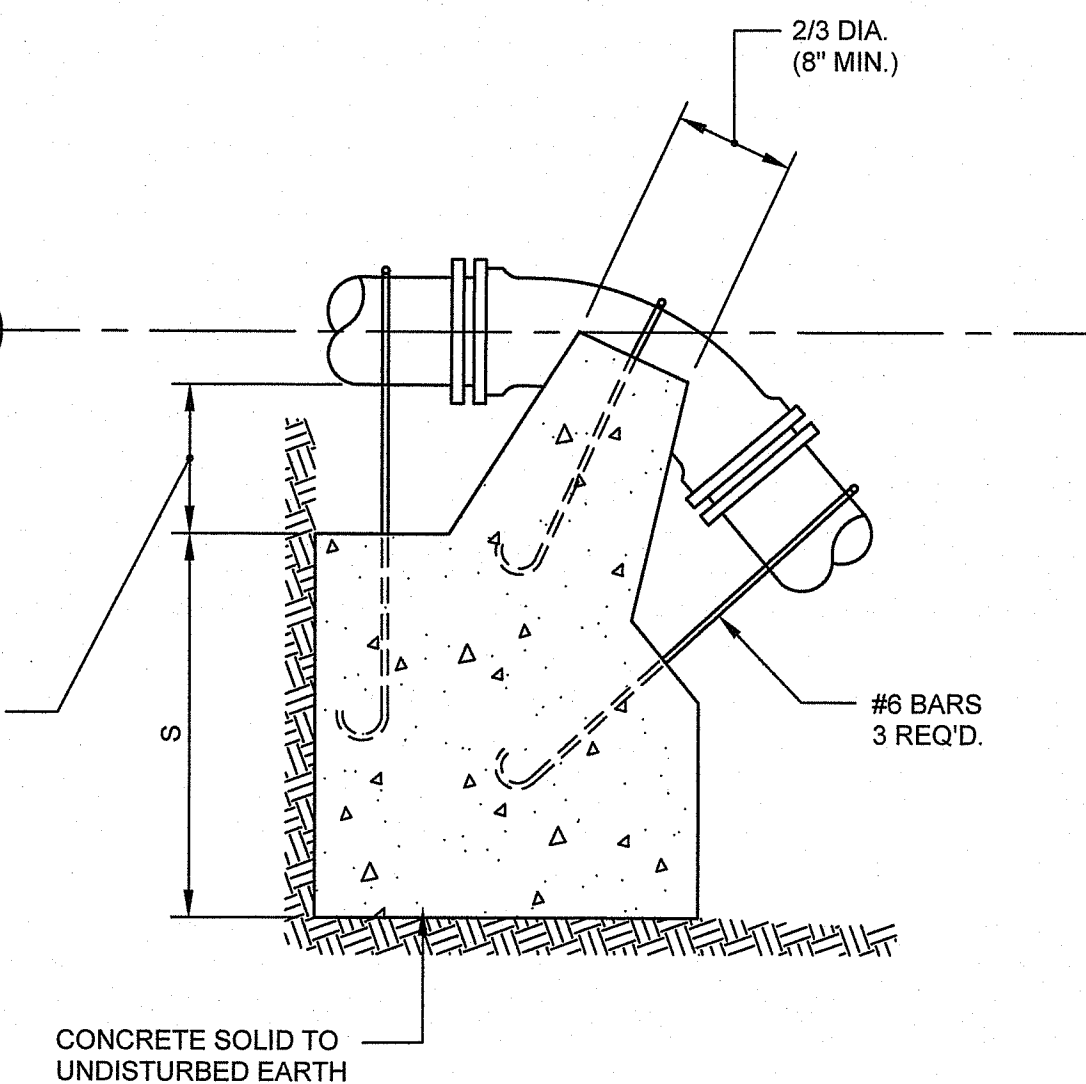


SECTION

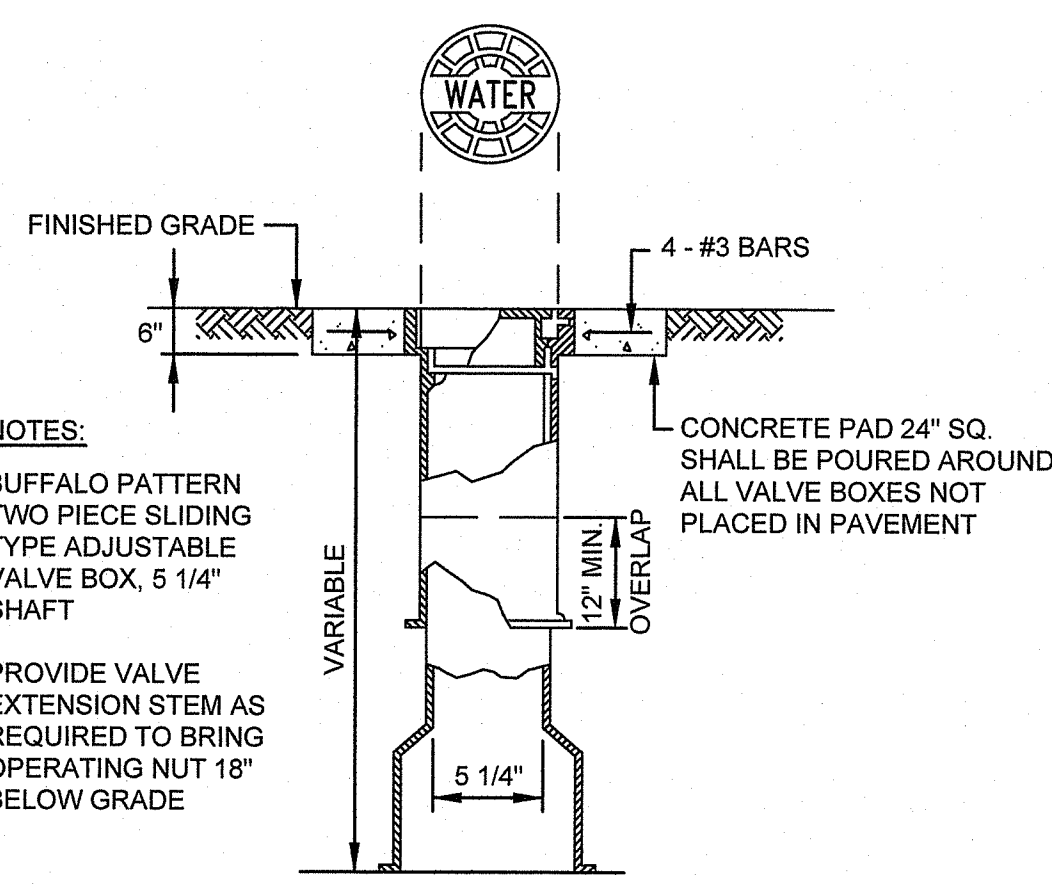


PLAN

CONCRETE ANCHORAGE

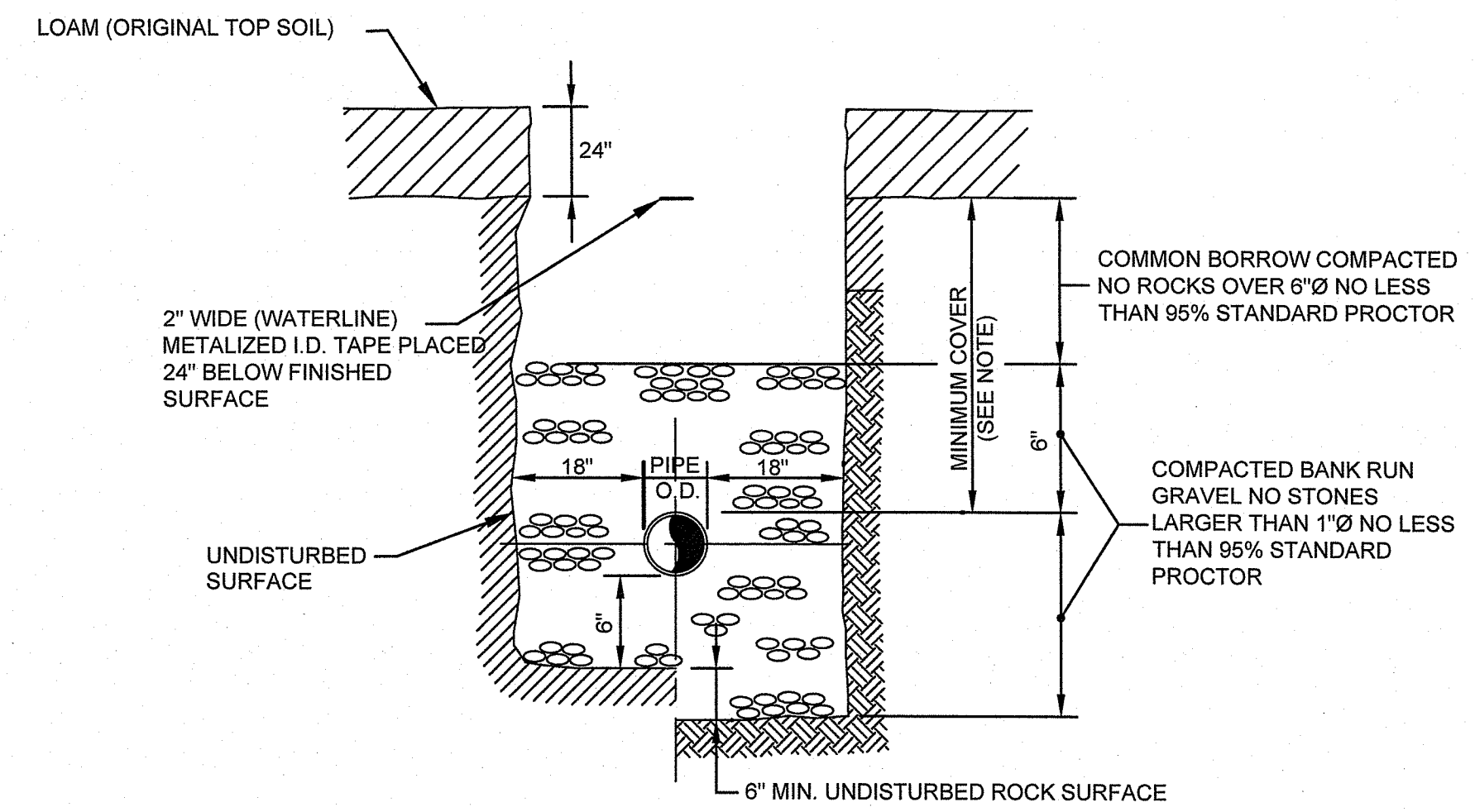


ELEVATION



VALVE BOX DETAIL

- NOTES:**
- BUFFALO PATTERN TWO PIECE SLIDING TYPE ADJUSTABLE VALVE BOX, 5 1/4" SHAFT
 - PROVIDE VALVE EXTENSION STEM AS REQUIRED TO BRING OPERATING NUT 18" BELOW GRADE

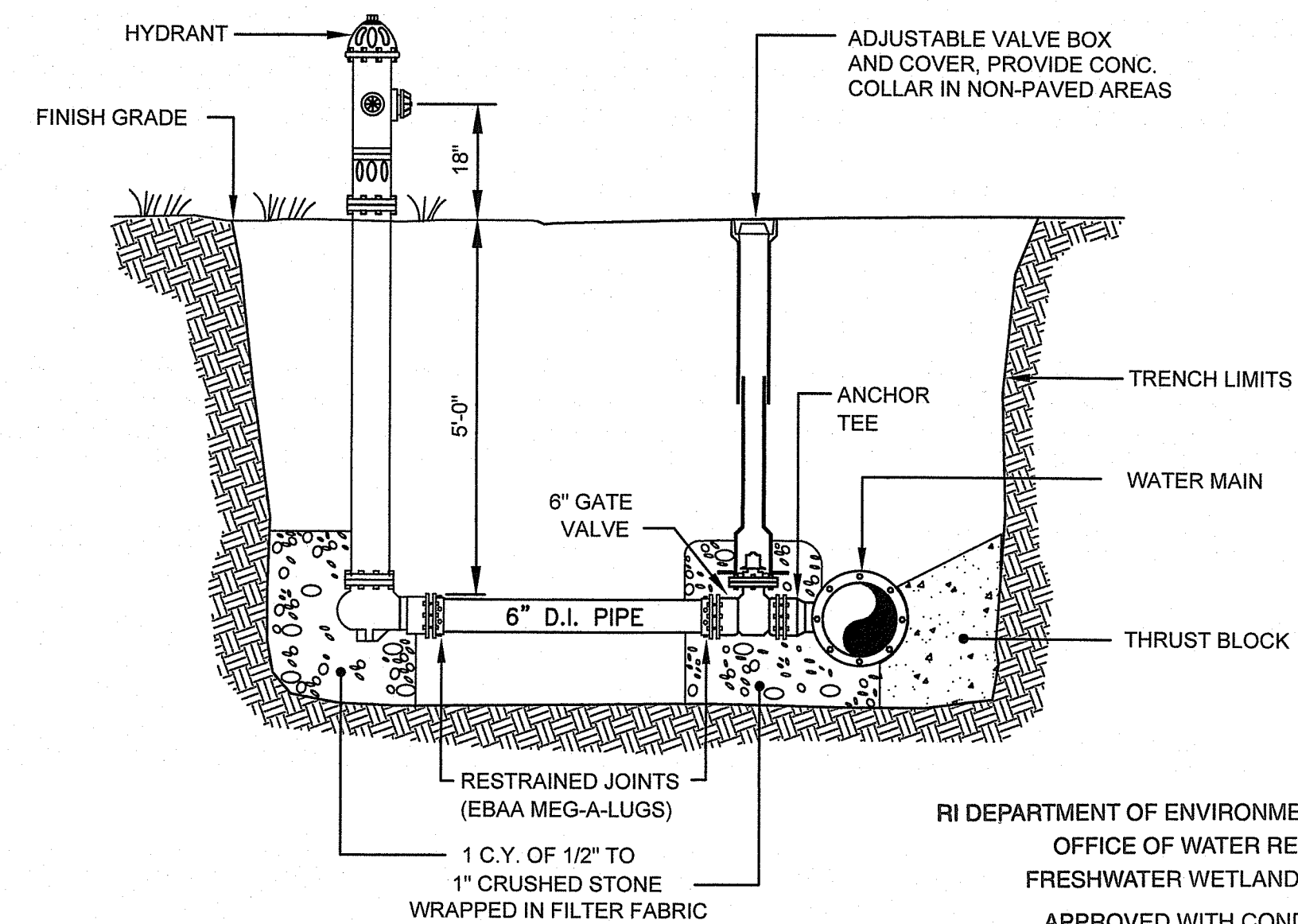


TYPICAL TRENCH DETAIL FOR WATER MAIN AND SERVICES

NOT TO SCALE

NOTES:

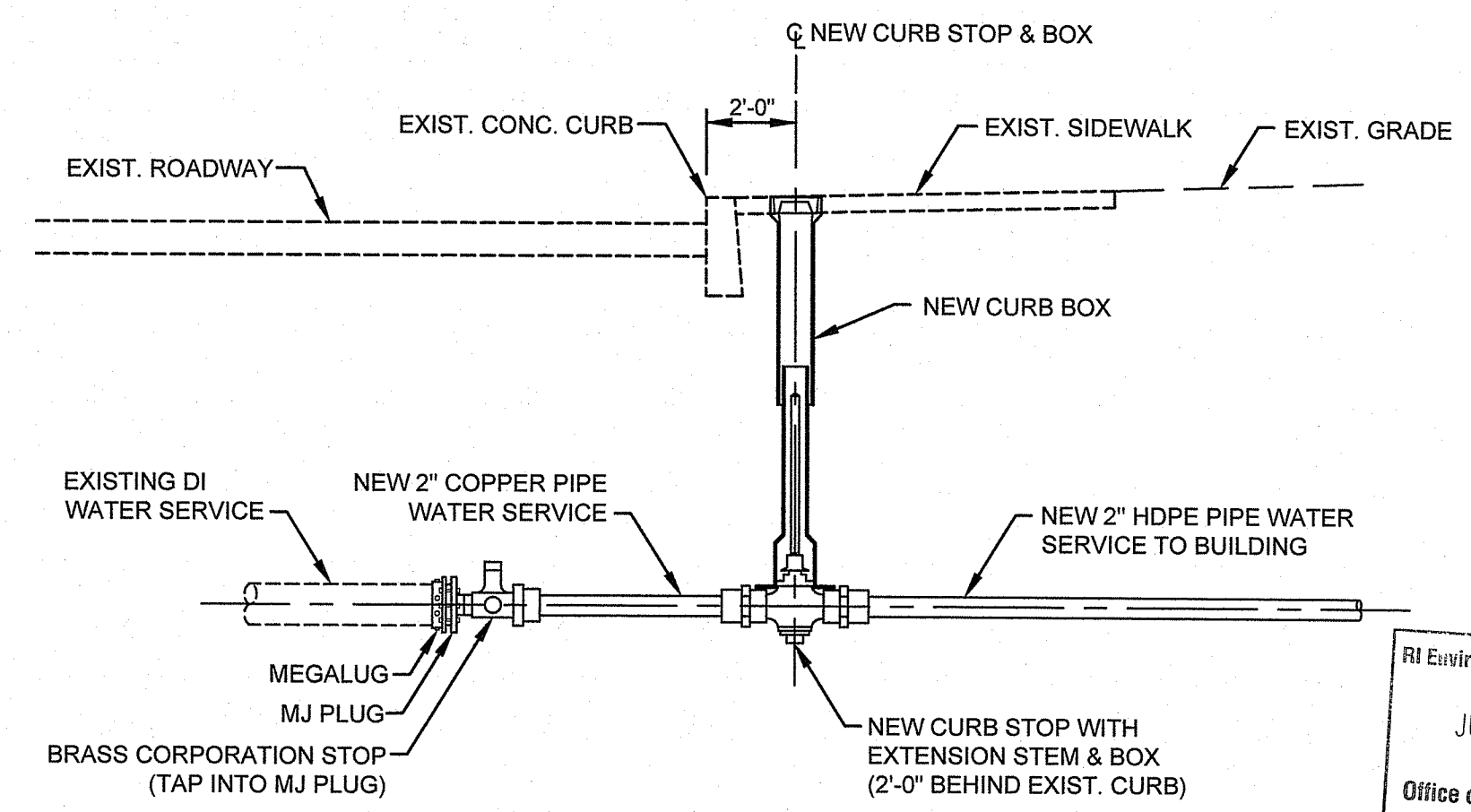
- ALL WATER MAIN AND SERVICE TRENCH INSTALLATION SHALL COMPLY WITH THE UNIVERSITY OF RHODE ISLAND WATER SYSTEM WORK SPECIFICATIONS.
- WATERMAIN AND SERVICES SHALL BE INSTALLED WITH A MINIMUM COVER OF 5 FEET TO THE CROWN OF THE PIPE IN AN AMERICAN WATER WORKS ASSOCIATION "TYPE 5 TRENCH".



HYDRANT DETAIL

NOT TO SCALE

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: MAR 30 2022 FILE # 22-0248
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Mindy L. Freeman



NEW CURB STOP INSTALLATION DETAIL

NOT TO SCALE

CS

- NOTES:**
- SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH SECTION 206 OF THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARDS SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.

TEES		PIPE SIZE-D (DIA.)				
		6"	8"	12"	16"	20"
A	8"	10"	11-0"	11-3"	11-6"	11-6"
B	8"	10"	11-2"	11-4"	11-6"	11-6"
C	10"	11-0"	11-3"	11-6"	11-8"	11-8"
E	8"	10"	11-2"	11-6"	11-10"	11-10"

HORIZONTAL BENDS		PIPE SIZE-D (DIA.)					
BEND		6"	8"	12"	16"	20"	
1/8	X	11-0"	11-0"	11-0"	11-3"	11-6"	
	Y	11-0"	11-6"	11-6"	11-6"	11-6"	
	Z	8"	10"	11-2"	11-4"	11-6"	
		X	11-0"	11-0"	11-0"	11-3"	11-6"
1/16	Y	11-0"	11-4"	11-6"	11-6"	11-6"	
	Z	8"	10"	11-2"	11-4"	11-6"	
		X	11-0"	11-0"	11-0"	11-4"	
		Y	11-0"	11-0"	11-2"	11-4"	11-6"
1/32	Z	8"	10"	11-2"	11-4"	11-6"	
		X	11-0"	11-0"	11-0"	11-4"	
		Y	11-0"	11-0"	11-2"	11-4"	11-6"
		Z	8"	10"	11-2"	11-4"	11-6"

VERTICAL BENDS		PIPE SIZE-D (DIA.)				
BEND		6"	8"	12"	16"	20"
1/8	L	11-3"	11-8"	12-6"	13-6"	14-8"
	M	7"	8"	11"	11-4"	11-6"
	N	7"	8"	11"	11-4"	11-6"
	T	2-6"	2-9"	3-6"	2-6"	5-6"
1/16	S	2-0"	2-8"	4-0"	4-8"	5-0"
	U	1-9"	2-3"	2-6"	3-2"	3-8"
	V	2-6"	3-4"	4-0"	6-0"	8-6"
	W	1-6"	2-0"	3-0"	3-6"	4-3"
1/32	X	1-3"	1-9"	2-0"	2-4"	2-6"
	Y	7"	7"	10"	10"	11-0"
	Z	7"	7"	8"	10"	11-0"
		L	6"	8"	11-0"	11-4"

ANCHORAGES		PIPE SIZE-D (DIA.)					
BEND		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"	
	U	2-0"	2-8"	4-0"	4-8"	5-0"	
1/16	V	1-9"	2-3"	2-6"	3-2"	3-8"	
	W	2-6"	3-4"	4-0"	6-0"	8-6"	
	X	1-6"	2-0"	3-0"	3-6"	4-3"	
	Y	1-3"	1-9"	2-0"	2-4"	2-6"	
1/32	Z	7"	7"	10"	10"	11-0"	
		L	6"	8"	11-0"	11-4"	
		M	7"	7"	10"	10"	11-0"
		N	7"	7"	8"	10"	11-0"

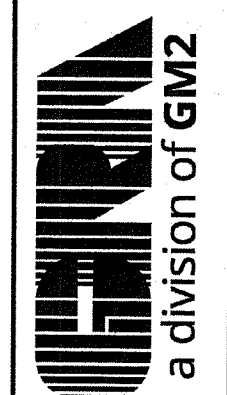
THRUST BLOCKS

NOT TO SCALE

PROJECT
PARKSIDE SHOPPING CENTER
PLAT 44 LOT 84
1530 HARTFORD AVENUE
JOHNSTON, RI

TODD A. RAVENHILL
5928
REGISTERED
PROFESSIONAL ENGINEER

APPLICANT
PARKSIDE HOLDINGS, LLC
75 LAMBERT LIND HIGHWAY
WARWICK, RI 02886



DRAWING TITLE
DETAILS - 3

NO.	DATE	REVISIONS	BY

PROJECT NO.: 1677

DATE: JUNE 2022

SCALE: AS NOTED

DRAWN BY: JLH

CHECKED BY: TAR

DRAWING NUMBER

9

SHEET 9 OF 16

RI Environmental Management
JUN 27 2022
Office of Water Resources

WATER CONSTRUCTION NOTES (CONT.):

THE USE OF THE RODS MAY BE ALLOWED BY WRITTEN PERMISSION OF THE GENERAL MANAGER/CHIEF ENGINEER. THIS TYPE OF RESTRAINT CONFIGURATION WILL ONLY BE CONSIDERED IN SITUATIONS WHERE APPROVED TYPES OF RESTRAINT SYSTEMS CANNOT BE USED.

APPROVED THRUST RESTRAINT SHALL BE BY AN APPROVED RESTRAINING GLAND SYSTEM UTILIZING IN COMBINATION WITH MECHANICAL JOINT PIPE AND FITTINGS. ALL CALCULATIONS MUST BE CONTAINED IN THE APPLICATION SUBMISSION AND SHALL BE IN CONFORMANCE WITH THE MANUFACTURING REQUIREMENTS FOR LENGTH, FITTING AND TYPE OF RESTRAINT.

9. INSTALLATION METHODS:

INSTALLATION OF ALL WATER CONVEYANCES, MAINS, PIPES OR LINES SHALL BE IN ACCORDANCE WITH THE DUCTILE IRON PIPE RESEARCH ASSOCIATION'S INSTALLATION MANUAL AND ANSIAAWWA C600 AND ALL OTHER REQUIREMENTS OF PROVIDENCE WATER.

WATER MAIN AND SERVICES SHALL BE INSTALLED WITH A MINIMUM COVER OF 5 FEET TO THE CROWN OF THE PIPE IN AN AMERICAN WATER WORKS ASSOCIATION "TYPE 5 TRENCH". WHERE UNSUITABLE MATERIAL IS FOUND AT OR BELOW THE GRADE OF THE PLACEMENT OF THE PIPE OR FITTING, THE UNSUITABLE MATERIAL SHALL BE REMOVED TO THE REQUIRED WIDTH AND DEPTH AND REPLACED WITH THOROUGHLY COMPACTED BANK RUN GRAVEL ABOVE THE CROWN OF THE PIPE.

EACH LENGTH OF PIPE AND OR FITTING SHALL BE INSPECTED FOR CRACKS, DEFECTS IN COATING ON LINING, CLEANLINESS OR ANY OTHER EVIDENCE OF UNSUITABILITY.

PIPING SHALL BE LAID STRAIGHT TRUE TO LINE.

PIPE MAY BE DEFLECTED IN ORDER TO MAKE MINOR ADJUSTMENTS IN THE ALIGNMENT. ALL DEFLECTIONS SHALL BE A MAXIMUM OF 75% OF THE MANUFACTURER'S SAFE ALLOWABLE DEFLECTION PER PIPE LENGTH AS INDICATED IN THE FOLLOWING TABLES. IT IS REQUIRED THAT BENDS IN THE PIPE BE ACCOMPLISHED BY FITTINGS WHEREVER POSSIBLE.

ALLOWABLE DEFLECTION FOR 18-FOOT LENGTHS PIPE

Table with 3 columns: SIZE OF PIPE (IN.), PUSH-ON JOINT (IN.), MECH. JOINT (IN.). Rows for pipe sizes 4, 6, 8-12, 14-16, 18-20, 24-30.

ALLOWABLE DEFLECTION FOR 20-FOOT LENGTHS PIPE

Table with 3 columns: SIZE OF PIPE (IN.), PUSH-ON JOINT (IN.), MECH. JOINT (IN.). Rows for pipe sizes 4, 6, 8-12, 14-16, 18-20, 24-30.

WHENEVER PIPE REQUIRES CUTTING TO FIT THE LINE, THE WORK SHALL BE DONE ONLY BY EXPERIENCED (STATE OF RHODE ISLAND, LICENSED CONTRACTOR) OR PLUMBER, AND IN SUCH A MANNER AS TO LEAVE A SMOOTH END AT RIGHT ANGLES TO THE AXIS OF THE PIPE AND ON PIPE THAT IS CENTER ROUNDED DESIGNED SPECIFICALLY FOR FIELD CUTTING.

BLOCKING UNDER THE PIPE SHALL NOT BE PERMITTED EXCEPT WHERE A CONCRETE CRADLE IS PROPOSED.

METALIZED DETECTABLE IDENTIFICATION TAPE 2" IN WIDTH OR GREATER, BLUE IN COLOR AND PRINTED WITH "CAUTION WATER LINE BURIED BELLOW" SHALL BE UTILIZED OVER ALL MAINS. SET TO A DEPTH FROM FINISHED GRADE OF NO MORE THAN 1'-0".

AT ALL TIMES, DURING CONSTRUCTION, ALL PIPING AND FITTINGS SHALL BE KEPT FROM BECOMING CONTAMINATED FROM CONSTRUCTION MATERIALS, DIRT, NON POTABLE WATER, YARD WASTE OR SUBSTANCES PRODUCED AS A RESULT OF ANIMALS, RODENTS, AND INSECTS.

ADEQUATE, TEMPORARY PROVISIONS SHALL BE MADE TO CARE FOR THE FLOW FROM SEWERS OR DRAINS INTERFERED WITH BY THE WORK. ALL NECESSARY MEASURES SHALL BE TAKEN TO PREVENT SEWAGE OR OTHER CONTAMINATING MATTER FROM ENTERING THE WATER MAIN.

PIPE THAT IS REMOVED SHALL REMAIN THE PROPERTY OF THE PARTY WHOSE RESPONSIBILITY IT SHALL BE TO PROPERLY DISPOSE OF IT. FOR EXAMPLE, IF A PRIVATE CONTRACTOR IS AUTHORIZED TO DO THIS WORK, THE CONTRACTOR IS THE RESPONSIBLE PARTY AND MUST DISPOSE OF THE PIPE.

NO PERSON, EXCEPT AN AUTHORIZED REPRESENTATIVE OF PROVIDENCE WATER OR UNDER THEIR OBSERVATION, WILL BE ALLOWED UNDER ANY CIRCUMSTANCES TO TAP THE MAINS OR DISTRIBUTION PIPES, INSERT CORPORATION STOPS THEREIN, SET OR REMOVE METERS ON SERVICE PIPES, OR INTERFERE WITH WATER GATES OR CURB STOPS.

NO NEW PIPING SYSTEM SHALL BE PERMANENTLY CONNECTED TO AN EXISTING PROVIDENCE WATER MAIN UNTIL AFTER OBTAINING SUCCESSFUL RESULTS FROM WATER QUALITY TESTS FROM A STATE OF RHODE ISLAND CERTIFIED LABORATORY MEETING THE STANDARDS SET BY RI DEPARTMENT OF HEALTH, AND WATER QUALITY TEST INDICATE THAT THE SAMPLES ARE CONSISTENT WITH THE QUALITY OF WATER IN PROVIDENCE WATER SYSTEM, INCLUDING HETEROTROPHIC PLATE COUNT RESULTS.

TEMPORARY FITTINGS FOR FLUSHING, PRESSURE TESTING AND CHLORINATION ARE REQUIRED FOR ALL NEWLY INSTALLED MAINS. NEW MAINS SHALL BE CAPPED AT EACH END. EACH END SHALL BE FITTED WITH A TEMPORARY RISER OF SUFFICIENT LENGTH TO REACH FINISHED GRADE AND AN ISOLATION VALVE.

10. PRESSURE TEST:

ALL SERVICES WATER MAINS, BYPASS PIPING AND APPURTENANCES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ANY TEST. A PRESSURE TEST SHALL BE CONDUCTED ON ALL COMPLETED WATER LINES PRIOR TO ACCEPTANCE.

EACH VALVE SECTION OF THE MAIN SHALL BE FILLED SLOWLY WITH WATER AT A RATE NO GREATER THAN ONE FOOT OF PIPE SECTION PER SECOND. ALL AIR SHALL BE RELEASED VIA CORPORATION STOPS, HYDRANTS, AND INSTALLED AUTOMATIC AIR RELEASE FITTINGS.

THE TEST PRESSURE SHALL BE BROUGHT UP TO AT LEAST 50% HIGHER THAN THE NORMAL ANTICIPATED WORKING PRESSURE, OR 150 PSI, WHICHEVER IS GREATER, AND MAINTAINED FOR A CONTINUOUS TWO (2) HOUR PERIOD.

PROPER THRUSTING OF ALL PIPEFITTING, CAPS, HYDRANTS, AND APPURTENANCES SHALL BE PROVIDED TO RESIST THE IMPOSED TEST PRESSURE.

11. CHLORINATION/DISINFECTION:

ALL NEW OR REPAIRED POTABLE WATER SYSTEM DISTRIBUTION MAINS, SERVICE PIPE AND THE NECESSARY CONNECTING PIPES, FITTINGS, CONTROL VALVES, AND ALL APPURTENANCES IN OR ADJACENT TO ANY RESIDENCE, BUILDING OR PREMISES SHALL BE PURGED OF DELETERIOUS MATERIALS.

THE OWNER OR CUSTOMER IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE DISINFECTION PROCESS OR PROCEDURE.

THE DISINFECTION MUST RESULT IN ELIMINATING FROM THE VARIOUS PARTS OF THE NEW PIPE LINE ANY EVIDENCE OF THE EXISTENCE, THEREIN, OF BACTERIA INDICATIVE OF ANY CONTAMINATION, AS DETERMINED BY TESTS OF THE BACTERIAL CONTENT OF SAMPLES OF WATER TAKEN FROM THE NEW WATER MAIN.

WHENEVER PIPE REQUIRES CUTTING TO FIT THE LINE, THE WORK SHALL BE DONE ONLY BY EXPERIENCED (STATE OF RHODE ISLAND, LICENSED CONTRACTOR) OR PLUMBER, AND IN SUCH A MANNER AS TO LEAVE A SMOOTH END AT RIGHT ANGLES TO THE AXIS OF THE PIPE AND ON PIPE THAT IS CENTER ROUNDED DESIGNED SPECIFICALLY FOR FIELD CUTTING.

WATER MUST SIT IN THE MAIN FOR AT LEAST 24 HOURS PRIOR TO TAKING A TEST SAMPLE. WATER UTILIZED FOR THIS PURPOSE, FLUSHING OR PRESSURE TESTING, WHICH IS OBTAINED DIRECTLY FROM PROVIDENCE WATER SYSTEM, MUST FLOW THROUGH AN ISOLATED CONNECTION TO PROVIDENCE WATER SYSTEM VIA AN APPROVED METER.

AFTER FINAL FLUSHING AND BEFORE THE NEW WATER MAIN IS CONNECTED TO THE DISTRIBUTION SYSTEM, TWO CONSECUTIVE SETS OF ACCEPTABLE SAMPLES FOR COLIFORM BACTERIA AND HETEROTROPHIC PLATE COUNT (HPC), TAKEN 24 HOURS APART, SHALL BE COLLECTED FROM THE TERMINATION OF THE NEW MAIN.

WATER MATERIALS

1. SERVICES:

SERVICE PIPE SIZES 1/2 TO 2 INCH SHALL BE EITHER COPPER OR H.D.P.E. PIPE. COLOR MUST BE BLUE WITH A VIRGIN CLEAR NATURAL CENTER.

H.D.P.E. SHALL CONFORM TO ASTM D1248 TYPE III, GRADE P34, CLASS A, CATEGORRY 5, COLOR BLUE WITH VIRGIN CLEAR NATURAL CENTER.

COPPER PIPE SHALL BE TYPE "K" COPPER TUBING DESIGNED FOR POTABLE WATER SERVICE ANSIA/ASTM B88.

SERVICES 3 INCH AND ABOVE SHALL BE DUCTILE IRON AND CONFORM TO THE REQUIREMENTS FOR MAIN MATERIALS AND INSTALLATION.

2. METERS: ALL METERS SHALL BE COMPATIBLE WITH THE SYSTEM UTILIZED BY PROVIDENCE WATER.

ALL METERS ARE TO READ IN CUBIC FEET. MUST BE CAPABLE OF BEING READ THE RADIO FREQUENCY SYSTEM IN PLACE AT PROVIDENCE WATER.

ALL FIRE SERVICE METERS SHALL BE IN ACCORDANCE WITH PROVIDENCE WATER AND NFPA STANDARDS WITH UL/FM APPROVED STRAINER DESIGNED FOR FIRE SERVICE.

3. THRUST RESTRAINT:

RESTRAINING DEVICES SHALL BE UTILIZED ON ALL MAINS. THRUST BLOCKS SHALL BE CONSTRUCTED FROM CONCRETE 3000 PSI AT 28 DAYS, SIZED ACCORDING TO THE SIZE OF PIPELINE, TYPE OF FITTING, WATER PRESSURE AND THE CHARACTERISTICS OF THE SOIL.

THRUST RESTRAINT MAY BE VIA RESTRAINED JOINT, DUCTILE IRON PIPE MEETING ANSIA/AWWA C151/A21.51 AND ANSIA/AWWA C111/A21.1.

GLAND AND RESTRAINT COMPONENTS MADE FROM DUCTILE IRON AND SHALL HAVE A BITUMINOUS OUTSIDE COATING IN ACCORDANCE WITH ANSIA/AWWA C151/A21.51 AND ANSIA/AWWA C153/A21.53 RESPECTIVELY.

4. WATER PIPE:

ALL DUCTILE-IRON PIPE AND APPURTENANCES SHALL BE FROM A SINGLE MANUFACTURER SOURCE. FOREIGN PIPE FITTINGS AND GASKETS ARE STRICTLY FORBIDDEN. DUCTILE IRON PIPE SHALL CONFORM TO ANSIA/AWWA C151/A21.51, ANSIA/AWWA C153/A21.53 CLASS 52 DOUBLE CEMENT MORTAR LINED.

TYPE: DUCTILE IRON MEETING ANSIA/AWWA C151/A21.51 ANSIA/AWWA C150/A21.50. CLASS: SPECIAL THICKNESS CLASS 52.

LINING: DOUBLE CEMENT MORTAR MEETING ANSIA/AWWA C151/A21.51. END JOINTS: PUSH ON - TYTON STYLE ONLY - MEETING ANSIA/AWWA C111/A21.11.

TYPE: DUCTILE IRON MEETING ANSIA/AWWA C151/A21.51 ANSIA/AWWA C150/A21.50. CLASS: SPECIAL THICKNESS CLASS 52.

PIPE FITTINGS: DUCTILE IRON FITTINGS SHALL CONFORM TO ANSIA/AWWA C153/A21.53. FOREIGN FITTINGS, GASKET GLANDS AND ACCESSORIES ARE STRICTLY FORBIDDEN.

TYPE: 4 INCH TO 12 INCH DUCTILE IRON COMPACT MEETING ANSIA/AWWA C153/A21.53. 16 INCH AND LARGER DUCTILE IRON MEETING ANSIA/AWWA C153/A21.53 OR ANSIA/AWWA C110/A21.10.

GASKETS: RUBBER MEETING ANSIA/AWWA C111/A21.11. ; NITRILE (IN CONTAMINATED SOIL).

6. VALVES:

VALVES SHALL BE CAST IRON OR DUCTILE IRON 250-PSI WORKING PRESSURE. OPERATING STEM SHALL BE PROVIDED WITH A MINIMUM OF TWO (2) O-RING STEM SEALS.

RESILIENT SEAT GATE 4 INCH TO 12 INCH:

TYPE: BURIED SERVICE NON-RISING STEM. ABOVE GRADE SERVICE OR PITS OS & Y TYPE WITH HAND WHEEL OR NON-RISING STEM WITH HAND WHEEL.

TAPPING SLEEVES AND VALVES:

VALVES SHALL BE FULL BODY AND FULL PORT TAPPING TYPE. SLEEVES SHALL BE FULL PORT DUCTILE IRON OR GRADE 18-8 TYPE 304 STAINLESS STEEL.

TYPE: RESILIENT SEAT GATE VALVES DESIGNED SPECIFICALLY FOR TAPPING. SEAL: STAINLESS STEEL SLEEVES SHALL USE GRID PATTERN VIRGIN RUBBER ASTM 2000, FULL 360-DEGREE PIPE COVERAGE.

SWING CHECK:

SWING CHECK VALVES SHALL UTILIZE IRON-BODY BRONZE-MOUNTED DESIGN. THEY MAY EMPLOY METAL TO METAL OR COMPOSITION TO METAL SEAT CONSTRUCTION.

PATTERN WITH THE WORD "WATER" (IN UPPER CASE LETTERS) CAST UPON IT. THE MANHOLE SHALL BE OUTFITTED WITH CORROSION RESISTANT, NON-SLIP, STEPS.

VALVE ROAD BOX:

ALL VALVES (EXCEPT SWING-CHECK) SHALL BE EQUIPPED WITH A CAST IRON "BUFFALO" TYPE, ADJUSTABLE (SLIDING) VALVE ROAD BOX.

7. HYDRANTS:

TO MAINTAIN SYSTEM WIDE STANDARDIZATION, HYDRANTS SHALL BE DRY BARREL TYPE WITH 5/8" INCH VALVE. HYDRANTS SHALL CONFORM TO THE "STANDARD SPECIFICATIONS FOR FIRE HYDRANTS FOR ORDINARY WATER WORKS SERVICE".

BOOT COATINGS TO BE FUSE BONDED EPOXY OR THERMAL SET EPOXY FOR INTERIOR AND EXTERIOR-HOLIDAY FREE WITH MINIMUM THICKNESS 8 MILS MEETING OR EXCEEDING AWWA C650.

TYPE: FORD OR EQUAL. SIZES: 3/4, 1 INCH, 1 1/2 INCH, AND 2 INCH. OPENING: OPEN LEFT. END CONNECTIONS: COMPRESSION WITH NON-CORROSIVE GRIP RING MEETING ASTM B-159-BUNA N RUBBER AND CONDUCTIVITY RING.

TYPE: FORD OR EQUAL. SIZES: 3/4, 1 INCH, 1 1/2 INCH, AND 2 INCH. OPENING: OPEN LEFT. END CONNECTIONS: COMPRESSION WITH NON-CORROSIVE GRIP RING MEETING ASTM B-159-BUNA N RUBBER AND CONDUCTIVITY RING.

TESTABLE REDUCED PRESSURE: TYPE: WATTS OR EQUAL. BODY: CAST IRON, BRONZE OR STAINLESS STEEL DEPENDING ON SIZE.

HOUSEHOLD DUAL CHECK: TYPE: WATTS OR EQUAL. BODY: CAST BRONZE. SPRINGS: STAINLESS STEEL. PRESSURE: MAXIMUM 150 PSI - MINIMUM 10 PSI.

15. BACKFILL: PIPE BEDDING SHALL BE PROCESSED BORROW GRAVEL, GRANULAR IN NATURE, THE MAJOR PORTION OF WHICH MAY BE SAND OR GRAVEL.

SELECTED BACKFILL MAY BE FROM EXCAVATED MATERIALS THAT SHALL BE FREE DRAINING, CLEAN, GRANULAR SOIL SUITABLE FOR BACKFILL. IT SHALL BE FREE FROM PEAT, VEGETABLE OR ORGANIC MATTER OR ANY OTHER DEBRIS AND SHALL BE READILY COMPACTABLE TO THE REQUIREMENTS OF PROVIDENCE WATER.

IRON COVER AND BRASS BOLT FASTENER TYPE LOCK. THE WORD "WATER" SHALL BE CAST UPON THE COVER IN HEAVY PATTERN RAISED LETTERS.

GATE VALVE BOXES MAY BE EITHER MANUFACTURED IN NORTH AMERICA OR SELECTED FOREIGN MADE. SELECTED FOREIGN MADE BOXES MUST RECEIVE PRIOR APPROVAL BASES ON DESIGN AND STYLE SAMPLES TO BE PROVIDED FOR REVIEW.

11. SADDLES: SERVICE SADDLES AND REPAIR SADDLES SHALL BE DUCTILE IRON OR TYPE 304 STAINLESS STEEL, WITH STAINLESS STEEL BOLTS, WASHERS, NUTS AND BANDS.

SERVICE: TYPE: FORD OR EQUAL. BODY: DUCTILE IRON OR GRADE 18-8 TYPE 304 STAINLESS STEEL. COATING: DUCTILE IRON COMPONENTS SHALL BE EPOXY COATED AWWA C 500 OR NYLON COATED.

REPAIR: TYPE: FORD OR EQUAL. BODY: DUCTILE IRON OR GRADE 18-8 TYPE 304 STAINLESS STEEL. COATING: DUCTILE IRON COMPONENTS SHALL BE EPOXY COATED AWWA C 500 OR NYLON COATED.

12. FULL CIRCLE REPAIR: ALL COMPONENTS AND FASTENERS SHALL BE TYPE 304 STAINLESS STEEL. GASKET SHALL BE VIRGIN RUBBER FOR WATER SERVICE.

13. DUCTILE IRON COUPLINGS: STRAIGHT AND TRANSITION COUPLINGS SHALL BE DUCTILE IRON MANUFACTURED TO MEET AWWA C 219 AND FITTED WITH STAINLESS STEEL BOLTS WASHERS AND NUTS.

STRAIGHT: TYPE: FORD OR EQUAL. BODY: DUCTILE IRON. COATING: DUCTILE IRON COMPONENTS SHALL BE EPOXY COATED AWWA C 500 OR NYLON COATED.

TRANSITION: TYPE: FORD OR EQUAL. BODY: DUCTILE IRON. COATING: DUCTILE IRON COMPONENTS SHALL BE EPOXY COATED AWWA C 500.

14. BACKFLOW PREVENTERS: ALL DEVICES MUST HAVE BEEN APPROVED BY THE UNIVERSITY OF SOUTHERN CALIFORNIA (FCCCHR, USC), AMERICAN WATER WORKS ASSOCIATION AND AMERICAN SOCIETY OF SANITARY ENGINEERS.

TESTABLE DOUBLE CHECK: TYPE: WATTS OR EQUAL. BODY: CAST IRON, BRONZE OR STAINLESS STEEL DEPENDING ON SIZE.

TESTABLE REDUCED PRESSURE: TYPE: WATTS OR EQUAL. BODY: CAST IRON, BRONZE OR STAINLESS STEEL DEPENDING ON SIZE.

HOUSEHOLD DUAL CHECK: TYPE: WATTS OR EQUAL. BODY: CAST BRONZE. SPRINGS: STAINLESS STEEL. PRESSURE: MAXIMUM 150 PSI - MINIMUM 10 PSI.

15. BACKFILL: PIPE BEDDING SHALL BE PROCESSED BORROW GRAVEL, GRANULAR IN NATURE, THE MAJOR PORTION OF WHICH MAY BE SAND OR GRAVEL.

SELECTED BACKFILL MAY BE FROM EXCAVATED MATERIALS THAT SHALL BE FREE DRAINING, CLEAN, GRANULAR SOIL SUITABLE FOR BACKFILL. IT SHALL BE FREE FROM PEAT, VEGETABLE OR ORGANIC MATTER OR ANY OTHER DEBRIS AND SHALL BE READILY COMPACTABLE TO THE REQUIREMENTS OF PROVIDENCE WATER.

PROJECT: PARKSIDE SHOPPING CENTER PLAT 44 LOT 84. 1530 HARTFORD AVENUE JOHNSTON, RI. Includes professional engineer seal for Todd A. Raveled.

APPLICANT: PARKSIDE HOLDINGS, LLC 75 LAMBERT LIND HIGHWAY WARWICK, RI 02886. Includes logo for GMZ a division of GMZ.

APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL DATED JUL 3 11 2022. FILE # 22-02-02. NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL. APPROVED BY: [Signature]

DRAWING TITLE: DETAILS - 5. REVISIONS table with columns for NO., DATE, and REVISIONS.

PROJECT NO.: 1677

DATE: JUNE 2022

SCALE: AS NOTED

DRAWN BY: JLH

CHECKED BY: TAR

DRAWING NUMBER: 11. SHEET 11 OF 16. Includes environmental and water resources stamps.

P:\EPLER\04107\Project\Part\Final_Design\DWG\DETAILS-5.dwg, 6/22/2022 2:33:24 PM, MFR

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
CONCRETE HEADWALLS FOR PIPE CULVERTS
 JUNE 15, 1999
 R.I. STANDARD 2.1.0

REVISIONS	NO.	BY	DATE

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
PRECAST CONCRETE FLARED END SECTION
 JUNE 15, 1999
 R.I. STANDARD 2.5.0

DIMENSIONS		REINFORCEMENT
NO.	DESCRIPTION	MIN. AREA OF CATCH BASIN (SQ. FT.)
1	1'-0" x 1'-0"	0.64
2	1'-0" x 2'-0"	0.80
3	2'-0" x 1'-0"	0.80
4	2'-0" x 2'-0"	0.96
5	3'-0" x 1'-0"	1.12
6	3'-0" x 2'-0"	1.28
7	4'-0" x 1'-0"	1.44
8	4'-0" x 2'-0"	1.60
9	5'-0" x 1'-0"	1.76
10	5'-0" x 2'-0"	1.92
11	6'-0" x 1'-0"	2.08
12	6'-0" x 2'-0"	2.24
13	7'-0" x 1'-0"	2.40
14	7'-0" x 2'-0"	2.56
15	8'-0" x 1'-0"	2.72
16	8'-0" x 2'-0"	2.88
17	9'-0" x 1'-0"	3.04
18	9'-0" x 2'-0"	3.20
19	10'-0" x 1'-0"	3.36
20	10'-0" x 2'-0"	3.52
21	11'-0" x 1'-0"	3.68
22	11'-0" x 2'-0"	3.84
23	12'-0" x 1'-0"	4.00
24	12'-0" x 2'-0"	4.16

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
PRECAST 4'-0" SQUARE MANHOLE OR CATCH BASIN
 JUNE 15, 1999
 R.I. STANDARD 4.3.0

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
PRECAST 4'-0", 5'-0", OR 6'-0" ROUND CATCH BASIN
 JUNE 15, 1999
 R.I. STANDARD 4.6.0

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
TOP COVER FOR 4'-0" OR 6'-0" SQUARE CATCH BASINS AND MANHOLES
 JUNE 15, 1999
 R.I. STANDARD 4.7.0

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
CATCH BASIN AND MANHOLE STEP
 JUNE 15, 1999
 R.I. STANDARD 5.3.0

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
HEAVY-DUTY ROUND FRAME AND COVER
 JUNE 15, 1999
 R.I. STANDARD 6.2.1

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
HIGH CAPACITY FRAME AND GRATE (BICYCLE SAFE)
 JUNE 15, 1999
 R.I. STANDARD 6.3.4

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
PRECAST CONCRETE CURB
 JUNE 15, 1999
 R.I. STANDARD 7.1.0

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
3'-0" PRECAST CONCRETE TRANSITION CURB
 JUNE 15, 1999
 R.I. STANDARD 7.1.1

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
6'-0" PRECAST CONCRETE TRANSITION CURB
 JUNE 15, 1999
 R.I. STANDARD 7.1.2

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
PRECAST CONCRETE WHEEL CHAIR RAMP TRANSITION CURB
 JUNE 15, 1999
 R.I. STANDARD 7.1.3

TRANSITION LENGTH (FT.)	BATTER (%)
0.5	1.5
1.0	1.5
1.5	1.5
2.0	1.5
2.5	1.5
3.0	1.5
3.5	1.5
4.0	1.5
4.5	1.5
5.0	1.5

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
PRECAST CONCRETE 2'-0" RADIUS CORNER
 JUNE 15, 1999
 R.I. STANDARD 7.1.4

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
PRECAST CONCRETE RAMP STONE
 JUNE 27, 2008
 R.I. STANDARD 7.1.9

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
CURB SETTING DETAIL
 JUNE 15, 1999
 R.I. STANDARD 7.6.0

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
RIP-RAP DITCH
 JUNE 15, 1999
 R.I. STANDARD 8.3.0

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
CONSTRUCTION ACCESS
 JUNE 15, 1999
 R.I. STANDARD 9.9.0

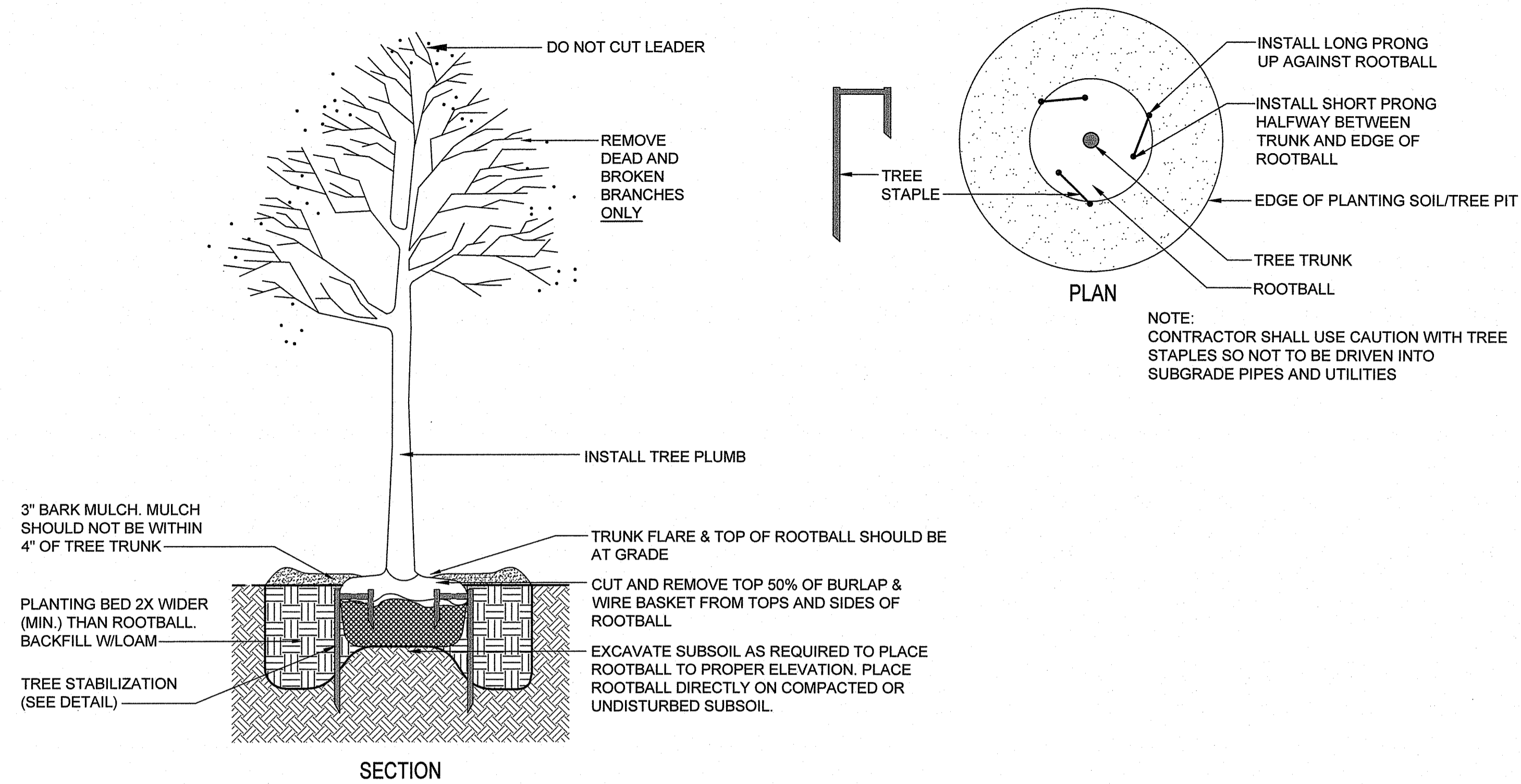
RHODE ISLAND DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKINGS ARROWS AND ONLY
 JUNE 15, 1999
 R.I. STANDARD 20.1.0

PROJECT
PARKSIDE SHOPPING CENTER
 PLAT 44 LOT 84
 1530 HARTFORD AVENUE
 JOHNSTON, RI
 TODD A. RAVENHILL
 5928
 REGISTERED PROFESSIONAL ENGINEER

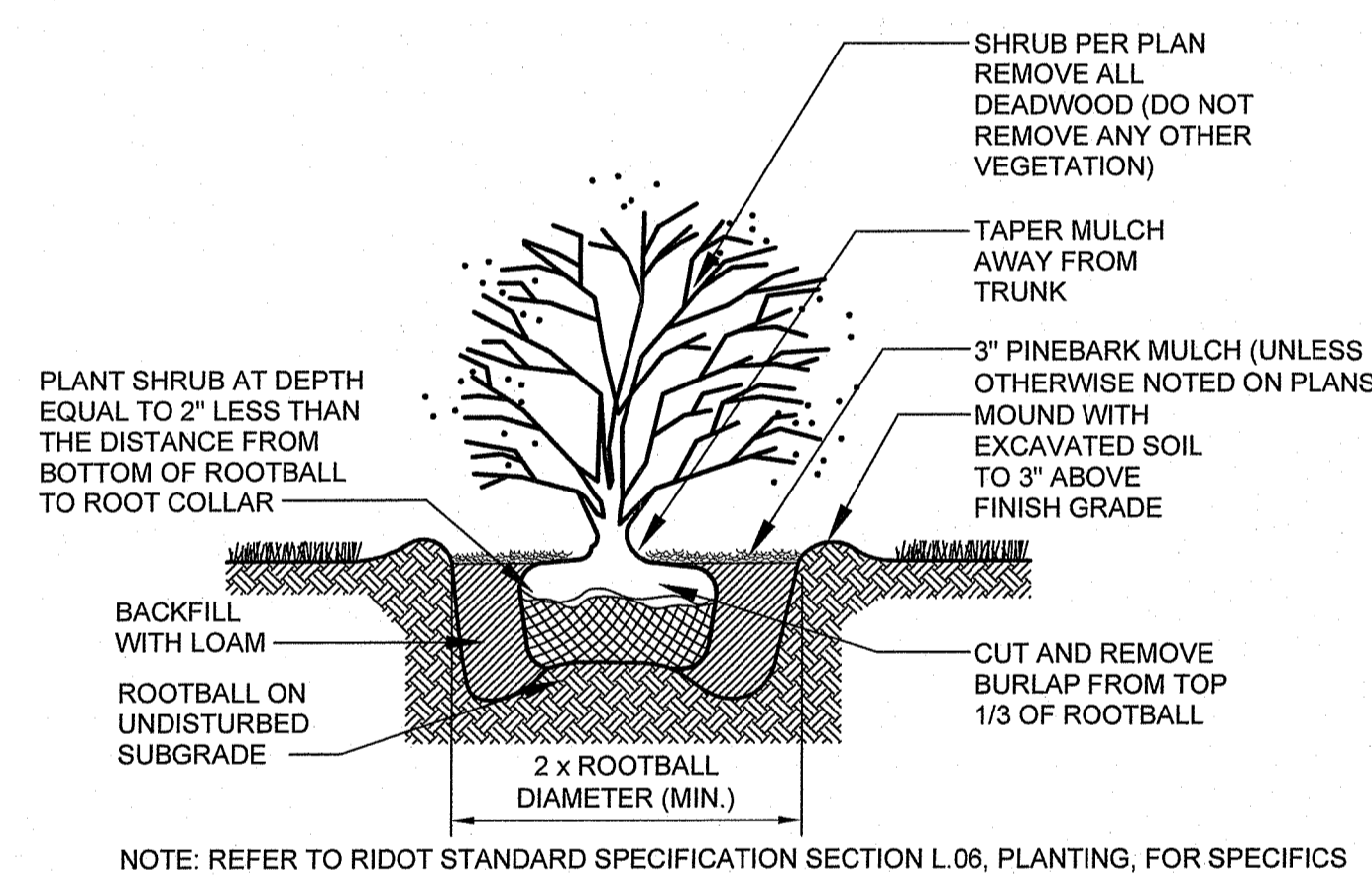
APPLICANT
PARKSIDE HOLDINGS, LLC
 75 LAMBERT LIND HIGHWAY
 WARWICK, RI 02886
 a division of GMZ

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED: **AUG 30 2022** FILE # **22-024**
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman
 DRAWING TITLE
DETAILS - 6
 REVISIONS
 NO. DATE

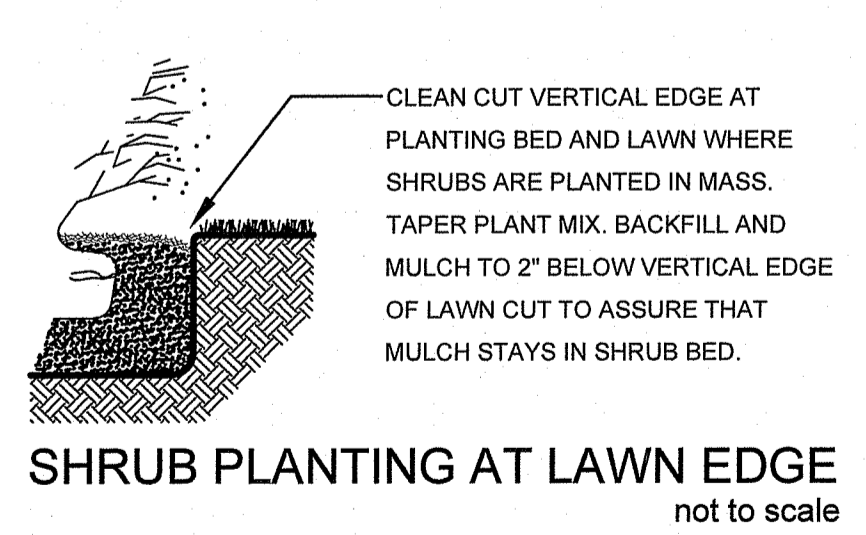
PROJECT NO.: 1677
 DATE: JUNE 2022
 SCALE: AS NOTED
 DRAWN BY: JLH
 CHECKED BY: TAR
 DRAWING NUMBER
12
 SHEET 12 OF 16



TREE PLANTING DETAIL
no scale



SHRUB PLANTING DETAIL
no scale



LANDSCAPE NOTES:

1. GUARANTEE THAT, UPON COMPLETION AND FINAL ACCEPTANCE, LANDSCAPE PLANTINGS CONFORM TO REQUIREMENTS OF CONTRACT DOCUMENTS. PROVIDE A WARRANTY FOR TREE PLANTINGS FOR A MINIMUM OF TWO (2) YEARS, INCLUDING TWO (2) CONTINUOUS GROWING SEASONS. COMMENCE WARRANTY ON DATE IDENTIFIED IN THE 'CERTIFICATE OF FINAL COMPLETION'.
2. REPLACEMENTS: PLANTS OF SAME SIZE AND SPECIES AS SPECIFIED, PLANTED IN THE NEXT GROWING SEASON, WITH NEW WARRANTY AND EXTENDED MAINTENANCE SERVICE COMMENCING ON THE DATE OF REPLACEMENT.
3. PLANT MATERIALS SHALL BE OF SIZE AND CALIPER REQUIRED AND CONFORM TO THE REQUIREMENTS DESCRIBED IN THE LATEST EDITION OF AMERICAN STANDARD FOR NURSERY STOCK, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
4. PLANTS OF OTHER KINDS THAN THOSE NAMED IN THE PLANT SCHEDULE SHALL NOT BE ACCEPTED WITHOUT APPROVAL. REPLACEMENT PLANTS LARGER IN SIZE THAN EXISTING MAY BE USED IF APPROVED BY THE A/E, PROVIDED USE OF LARGER PLANTS DOES NOT INCREASE CONTRACT PRICE.
5. A PROFESSIONAL HORTICULTURIST/NURSERYMAN SHALL BE CONSULTED TO DETERMINE THE PROPER TIME TO MOVE AND INSTALL PLANT MATERIAL SO THAT STRESS TO THE PLANT IS MINIMIZED. PLANTING OF DECIDUOUS MATERIAL MAY BE CONTINUED DURING WINTER MONTHS PROVIDED THERE IS NO FROST IN THE GROUND AND FROST-FREE TOPSOIL PLANTING MIXTURES ARE USED.
6. UNLESS OTHERWISE APPROVED BY THE A/E, ALL PLANTS SHALL BE NURSERY GROWN IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICES AND SHALL HAVE BEEN GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT FOR AT LEAST TWO (2) YEARS.
7. SET PLANTS PLUMB AND AT SUCH A LEVEL THAT AFTER SETTLEMENT THEY BEAR THE SAME RELATION TO THE SURROUNDING GROUND AS THEY BORE TO THE GROUND FROM WHICH THEY WERE DUG. SETTLE BACKFILL MATERIAL FOR PLANTS, THOROUGHLY & PROPERLY, BY FIRING OR TAMPING. ACCOMPANY BACKFILLING WITH THOROUGH WATERING UNLESS OTHERWISE APPROVED. FORM SAUCER CAPABLE OF HOLDING WATER AROUND INDIVIDUAL PLANTS.
8. FERTILIZE SHRUB BEDS WITH 10-6-4 FERTILIZER AT THE RATE OF 3 POUNDS PER 100 SQUARE FEET OF SURFACE AREA, BROAD CAST. APPLY THE FERTILIZER UNIFORMLY TO THE SURFACE BEDS AND WORK INTO THE UPPER TWO (2) INCHES OF SOIL. FERTILIZE INDIVIDUAL TREES AT THE RATE OF ONE (1) AGRIFORM PELLETT PER INCH OF TREE DIAMETER (FOLLOW MANUFACTURER'S WRITTEN INSTRUCTIONS). APPLY A SECOND APPLICATION OF FERTILIZER TO ALL PLANT ITEMS AT THE SAME SPECIFIED RATES OVER THE MULCH AT THE END OF AN EIGHT WEEK PERIOD.
9. CONTAINER GROWN MATERIALS: REMOVE PLANT FROM CONTAINER AND "BUTTERFLY" ROOT BALL OR OTHERWISE SPREAD OUT ROOTS ON SETTING MOUND. BACKFILL SHALL BE SIFTED THROUGH THEM AND SOLIDLY FIRMED.
10. AFTER PLANTING PRUNE ONLY BROKEN OR DEFORMED BRANCHES AND IN SUCH MANNER AS TO PRESERVE NATURAL CHARACTER OF PLANT.
11. IMMEDIATELY AFTER PLANTING, STAKE TREES OVER FIVE (5) FEET AS INDICATED ON DETAIL DRAWING INDICATED OR APPROVED BY THE OWNERS REPRESENTATIVE. MULCH SHALL BE APPLIED A MINIMUM OF THREE (3) INCHES IN DEPTH IN ALL PLANTING BEDS, AS INDICATED ON THE DRAWINGS.
12. THE PLANTS SHALL BE WATERED IMMEDIATELY FOLLOWING PLANTING, PREFERABLY WHEN TWO THIRDS OF THE BACKFILL HAS BEEN PLACED SO ALL AIR POCKETS ARE REMOVED AND THE PLANT PROPERLY SET. ADDITIONAL WATERING SHALL BE MADE AT LEAST ONCE EVERY THREE (3) WEEKS UNLESS OTHERWISE DIRECTED UNTIL FINAL ACCEPTANCE OF THE PLANT MATERIAL.
13. INSTALL 'JUTE MESH' EROSION CONTROL FABRIC WHERE FINAL GRADES ARE 3:1 (33%) OR GREATER PER MANUFACTURER'S INSTRUCTIONS.
14. UNLESS OTHERWISE SPECIFIED, CONTRACTOR TO LOAM AND SEED ALL DISTURBED AREAS. SEEDING NOTE: USE UNIVERSITY OF RHODE ISLAND NO. 2 IMPROVED SEED MIX OR EQUAL. TREE PRUNING NOTE: STREET TREES SHOULD BE PRUNED TO MAINTAIN A MINIMAL BRANCH HEIGHT OF 8' WITHIN TWO (2) YEARS OF INSTALLATION OF THE TREE.
15. LANDSCAPE ESTABLISHMENT AND MAINTENANCE NOTE: CONTRACTOR SHALL ENSURE THAT ALL LAWN AREAS AND PLANTINGS ARE FULLY ESTABLISHED AND ACCEPTABLE TO THE OWNER'S REPRESENTATIVE PRIOR TO RELINQUISHING THEIR RESPONSIBILITIES FOR MAINTENANCE OF THESE AREAS.
16. TREE PROTECTION NOTE: NO MATERIAL, TEMPORARY SOIL DEPOSIT OR EXCAVATION SHALL OCCUR WITHIN FOUR FEET OF SHRUBS OR WITHIN TWO FEET OF THE DRIP LINE OF ANY SHRUBS OR TREES TO REMAIN. ANY RETAINED EXISTING VEGETATION SHALL BE PROTECTED AS PER DETAIL ON PLAN.

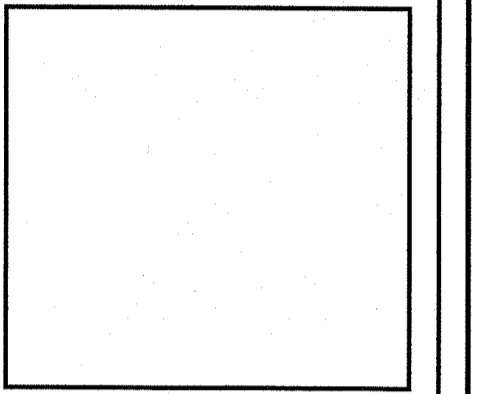
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: AUG 30 2011 FILE #: 22-0268
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

RI Environmental Management
JUN 27 2022
Office of Water Resources



Diane C. Soule & Associates, ASLA
Landscape Architecture
422 Farnum Pike
Smithfield, Rhode Island 02917
www.dianesouleandassociates.com
401.231.0736
email: diane@dcsa.us

PROJECT
PARKSIDE SHOPPING CENTER
PLAT 44/3, LOTS 84,85,295 & 355
1460 HARTFORD AVENUE
JOHNSTON, RI



APPLICANT
PICERNE HOLDING, LLC
75 LAMBERT LIND HIGHWAY
WARWICK, RI 02886

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

DRAWING TITLE
LANDSCAPE PLAN

NO.	DATE	BY

PROJECT NO.: 1677

DATE: FEBRUARY 2017

SCALE: 1" = 40'

DRAWN BY: DCS

CHECKED BY: DCS

DRAWING NUMBER
L-2
SHEET 15 OF 16