SITE PLAN SET FOR **WOONSOCKET DPW WATER DIVISION** FACILITY ASSESSOR'S MAP G4, LOT 31-5 **ZONING DISTRICT: R-1 VERY LOW DENSITY SINGLE-FAMILY RESIDENTIAL DISTRICT ROY AVENUE WOONSOCKET, RHODE ISLAND**

OWNER

CITY OF WOONSOCKET 169 MAIN STREET WOONSOCKET, RI 02895

ENGINEERS



• Civil Transportation Environmental Site Planning Surveying

Permitting Landscape Architecture

Crossman Engineering

Warwick, RI 02886 Phone (401) 738-5660

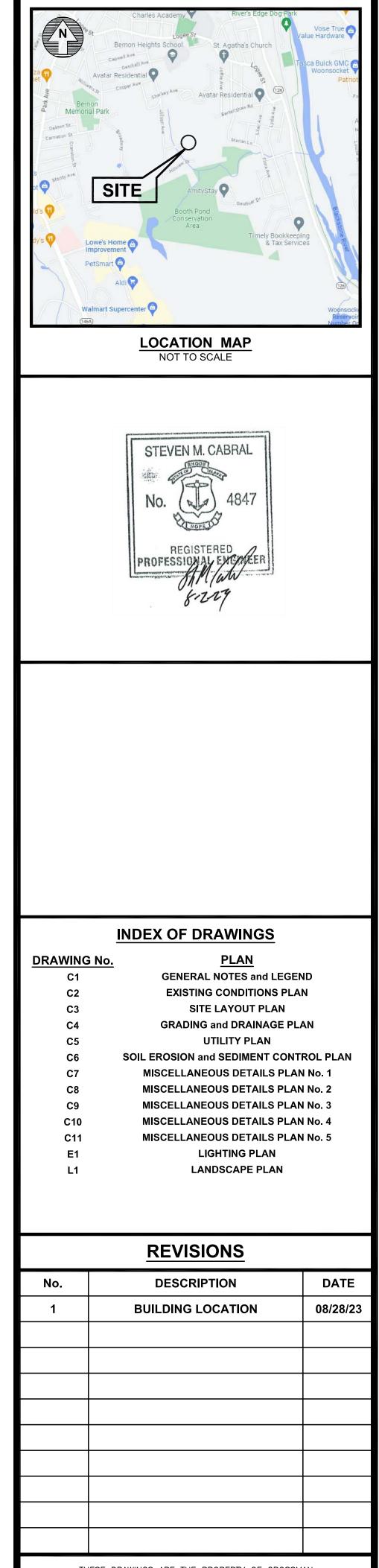
Rhode IslandMassachusetts151 Centerville Road103 Commonwealth Avenue North Attleboro, MA 02763 Phone (508) 695-1700

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AUGUST 7, 2023 (ISSUED FOR BIDDING) SHEET 1 of 14

ARCHITECTS





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GENERAL NOTES

- 1. ALL EXISTING UTILITIES HAVE BEEN PLOTTED BASED UPON BEST AVAILABLE INFORMATION AND REPRESENT APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING DRAINAGE AND UTILITIES, BOTH UNDERGROUND AND OVERHEAD, BEFORE EXCAVATION BEGINS IN ACCORDANCE WITH "DIG SAFE PROGRAM LAW" ENACTED BY THE RHODE ISLAND LEGISLATURE AND BY CONTACTING THE INDIVIDUAL UTILITY COMPANIES. EXCAVATION SHALL BE IN ACCORDANCE WITH ALL STATUTES, ORDINANCES, RULES AND REGULATIONS OF ANY MUNICIPALITY, STATE OR FEDERAL AGENCY THAT MAY APPLY. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY. A MINIMUM ADVANCE NOTICE OF 72 HOURS IS REQUIRED PRIOR TO START OF CONSTRUCTION.
- 2. SPECIFICATIONS TO GOVERN THIS PROJECT ARE R.I.D.O.T. STANDARD INSTALLATION, SPECIFICATIONS AND DETAILS. FOR ALL EXCAVATION, PLACEMENT OF FILL, PIPE BITUMINOUS PAVEMENT, CUTTING INTO CATCHBASIN/MANHOLES, CONCRETE AND SAWCUTTING, THE CONTRACTOR SHALL PERFORM THE WORK IN FULL COMPLIANCE WITH THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2018 EDITION, WITH LATEST REVISIONS UNLESS OTHERWISE SHOWN ON PLANS. THE "METHOD OF MEASUREMENT" AND "BASIS OF PAYMENT" ARE NOT APPLICABLE.
- 3. THE CONTRACTOR MUST VERIFY PRIOR TO CONSTRUCTION THAT ALL REQUIRED AUTHORIZATION TO PERFORM WORK HAS BEEN OBTAINED. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION OPERATIONS INCLUDING ALL ACTIONS OR OMISSIONS OF ANY SUBCONTRACTORS, AGENTS OR EMPLOYEES. THE CONTRACTOR MUST ENSURE THAT THE CONDITIONS OF ALL PERMITS, SPECIFICATIONS AND FEDERAL, STATE AND LOCAL REGULATIONS ARE STRICTLY ENFORCED. THE CONTRACTOR IS ALSO RESPONSIBLE FOR ASPECTS OF ON-SITE SAFETY INCLUDING ANY DAMAGE TO EXISTING STRUCTURES.
- 4. WORK SHOWN ON THE PLANS FOR WHICH THERE ARE NO PARTICULAR DETAILS, SPECIFICATIONS OR PAYMENT ITEM DOES NOT RELIEVE THE CONTRACTOR FROM FURNISHING AND INSTALLING THE WORK. THE CONTRACTOR SHALL THOROUGHLY EXAMINE THE CONTRACT DOCUMENTS AND PLANS AND INSPECT THE SITE. THE BID PRICE SHALL INCLUDE ALL SERVICES AND MATERIALS NECESSARY TO COMPLETE THE PROJECT. ANY CHANGES TO THE PROJECT OR THE INSTALLATION OF AN ITEM FOR WHICH NO PARTICULAR DETAIL OR SPECIFICATION WAS PROVIDED MUST BE REVIEWED BY AND MUST BE ACCEPTABLE TO THE ENGINEER.
- 5. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ANY
- 6. ALL DISTURBED AREAS SHALL BE REPLACED IN KIND UNLESS OTHERWISE SHOWN OR OTHERWISE INSTRUCTED IN WRITING BY THE OWNER.
- 7. CONTRACTOR SHALL EXCAVATE TEST PITS TO CONFIRM UTILITY LOCATIONS/ELEVATIONS AT POTENTIAL CONFLICT POINTS (UTILITY/DRAIN CROSSINGS).
- 8. THE CONTRACTOR SHALL USE CARE WHEN WORKING NEAR UTILITY POLES AND WIRING SO AS TO NOT DISTURB ELECTRICAL/TELEPHONE/CABLE SERVICE TO THE CUSTOMERS. IT IS THE CONTRACTORS RESPONSIBILITY TO MAINTAIN THESE SERVICES AT ALL TIMES.
- 9. THE CONTRACTOR SHALL, AT NO ADDITIONAL EXPENSE, BRACE UTILITY POLES IF REQUIRED, AND REPAIR ANY DAMAGE TO EXISTING UTILITIES, SIDEWALKS, GUARDRAILS, CURBS, PAVING, SHRUBS, TREES, STONE WALLS, LAWNS, ETC.

10. CHANGE ORDERS MAY ONLY BE APPROVED FOR PAYMENT BY THE OWNER.

- 11. ALL OPEN EXCAVATIONS SHALL BE ADEQUATELY SAFEGUARDED BY PROVIDING TEMPORARY BARRICADES. CAUTION SIGNS, LIGHTS AND OTHER MEANS TO PREVENT ACCIDENTS TO PERSONS AND DAMAGE TO PROPERTY. THE CONTRACTOR SHALL AT NO ADDITIONAL EXPENSE TO THE OWNER, PROVIDE SUITABLE AND SAFE CONDITIONS AT ALL AREAS OF THE WORK SITE AND SHALL PROVIDE SAFE VEHICULAR AND PEDESTRIAN ACCESS AROUND ALL WORK AREAS.
- 12. CONTRACTOR SHALL PROVIDE, AT NO ADDITIONAL EXPENSE, ADEQUATE EROSION CONTROL, FRAC TANKS OR SEDIMENTATION CONTROLS SUBJECT TO THE APPROVAL OF RIDEM FOR THE DISCHARGE OF ANY TRENCH DEWATERING.
- 13. ALL STRUCTURES AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS AND STANDARD SPECIFICATIONS OF THE CITY OF WOONSOCKET DEPARTMENT OF PUBLIC WORKS. ALL EXCAVATION, BACKFILL AND RESTORATION WORK SHALL MEET THE CITY'S SPECIFICATIONS.
- THE LAYOUT SHOWN REPRESENTS A GRAPHICAL DESIGN. ALL EXISTING UTILITY LOCATIONS AND ELEVATIONS ARE TO BE CONFIRMED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY ITEM FOUND WHICH DOES NOT MATCH THE PLANS MUST BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO CONSTRUCTION FOR REVIEW. NO WORK SHALL PROCEED UNTIL AUTHORIZED BY THE ENGINEER.
- 15. THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO REMOVAL AND/OR INSTALLATION OF UTILITIES ON SITE. THE COORDINATION IS NECESSARY FOR THE ENGINEER TO SCHEDULE SITE INSPECTIONS. INSTALLATIONS PERFORMED WITHOUT INSPECTIONS BY THE ENGINEER MAY WARRANT COMPLETE REMOVAL AND REINSTALLATION AT THE CONTRACTOR'S SOLE EXPENSE.
- 16. THE CONTRACTOR IS REQUIRED TO MAINTAIN DETAILED AS-BUILT INFORMATION FOR ALL UTILITY INSTALLATIONS. AS-BUILT INFORMATION MUST INCLUDE MATERIAL LIST, PIPE DEPTH AND SWING TIE LOCATIONS (2 MINIMUM) FROM NEW PIPE TO BUILDING CORNERS. ALL PIPE BEND/ELBOW LOCATIONS SHALL BE DIMENSIONED. FINAL PAYMENT WILL NOT BE MADE UNTIL SUITABLE AS-BUILT DATA IS PROVIDED.
- 17. AS-BUILT AUTOCAD FILES AND HARD COPY PLANS SHALL BE PROVIDED UPON COMPLETION OF WORK. CONTRACTOR IS RESPONSIBLE FOR THIS INFORMATION. FINAL PAYMENT TO CONTRACTOR SHALL NOT BE PROVIDED UNTIL ACCEPTABLE AUTOCAD FILES OF THE AS-BUILTS ARE SUBMITTED AND APPROVED BY THE OWNER.

FLOOD ZONE NOTE

Soil Class: HTM

Limiting Layer: 65"

GW Seepage Depth: N/A

SHWT Design Depth: N/A

16".

2.5Y5/3

ravelly Loamy

Sand, Cobbles

Stones &

Boulders

Soil Class: Ab Till

Limiting Layer: 51"

GW Seepage Depth: N/A

SHWT Design Depth: 33"

(Friable)

FLOODPLAIN, ACCORDING TO FLOOD INSURANCE RATE MAP, PROVIDENCE COUNTY, RHODE ISLAND (ALL JURISDICTIONS), MAP NUMBER 44007C0157G, MAP REVISED MARCH 2, 2009.

PERMIT NOTE THE PROPOSED SITE IS LOCATED WITHIN FLOOD ZONE X, AREAS TO BE OUTSIDE THE 0.2% CHANCE SOIL EVALUATION DATA SOIL EVALUATIONS WERE CONDUCTED BY BRIAN KING ON MAY 11, 2023 AND JUNE 2, 2023 **TEST PIT 1 TEST PIT 2 TEST PIT 3 TEST PIT 4 TEST PIT 5** ___ ___ 10YR3/6 ___ HTM1 Gravelly Loam 10YR3/3 10YR3/3 10YR3/3 Sand Sandy Loam Friable) Sandy Loam Friable) Sandy Loam 10YR3/3 10YR4/6 Sandy Loam 10YR4/6 10YR4/6 Bw/1 Bw1 Fine Sandy Fine Sandy Fine Sandy (Friable) (Friable) Loam Loam Loam 10YR3/6 HTM2 Gravelly Loam (Friable) 10**"—** 18"/28" Sand, Cobbles Stones & 10YR5/610YR5/6 10YR5/6 Bw2 Bw2 Boulders Fine Sandy Fine Sandy Fine Sandy Friable) (Friable) Loam Loam Loam

10YR4/6

Fine Sandy

Stones &

Boulders

Soil Class: Ab Till

Limiting Layer: 24"

GW Seepage Depth: N/A

SHWT Design Depth: 24"

Loam w/

Bw1

(Friable)

25"

2.5Y5/3

Loamy Fine

Sand, Some

Cobbles &

Stones

Soil Class: Ab Till

Limiting Layer: 69"

GW Seepage Depth: N/A

SHWT Design Depth: 47"

(Friable)

STANDARD NOTES

- SATISFACTION OF THE ENGINEER.

- INCIDENTAL TO PAVING OPERATIONS.

MAINTENANCE AND PROTECTION OF TRAFFIC NOTES

- EDITION.

- SHOULDERS.

2.5Y5/3

Gravelly Loamy

Fine Sand w/

Stones

Soil Class: Ab Till

Limiting Layer: N/A

PROPOSED PAVEMENT STRUCTURE

2" HMA SURFACE COURSE, CL. 9.5 ASPHALT EMULSION TACK COAT 2" HMA BASE COURSE. CL. 12.5 12" GRAVEL BASE

1. ANY DAMAGE TO EXISTING PAVEMENT, BRIDGES, CULVERTS, CONDUIT, SIDEWALK, FENCES, ETC., CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

2. THE CONTRACTOR SHALL PLACE ALL EQUIPMENT AND MATERIAL AS FAR AWAY AS POSSIBLE FROM THE EDGE OF THE TRAVEL LANE SO AS NOT TO CAUSE A SAFETY HAZARD.

3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE EXISTING CONDITIONS ARE NOT OBLITERATED BEFORE CONTROL POINTS ARE LOCATED AND CONSTRUCTION LAYOUT IS ESTABLISHED. THE CONSTRUCTION LAYOUT SHALL BE PROVIDED BY THE CONTRACTOR.

4. ASPHALT EMULSION TACK COAT SHALL BE PLACED PRIOR TO PAVEMENT PLACEMENT ON ANY NEW COURSE WHICH HAS BEEN OPEN TO TRAFFIC, OR ANY NEW COURSE WHICH HAS BEEN EXPOSED FOR MORE THAN 3 DAYS, AND/OR AS DIRECTED BY THE ENGINEER. IT SHALL ALSO BE APPLIED TO VERTICAL PAVEMENT FACES BETWEEN ADJOINING PAVEMENT SECTIONS.

5. THE LIMITS OF CLEARING AND SURFACE DISTURBANCE MUST BE STRICTLY ADHERED TO IN ALL AREAS. IN ADDITION TO THOSE AREAS SPECIFICALLY DESIGNATED ON THE PLANS, THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND PLACING, AT HIS OWN EXPENSE, 2" MULCH IN AREAS WHICH ARE OUTSIDE OF THE PROJECT'S AREAS OF DISTURBANCE AND WHICH ARE IMPACTED BY CONSTRUCTION OPERATIONS INCLUDING THOSE AREAS WHERE VEHICLES, EQUIPMENT AND MATERIALS ARE STORED.

6. CLEANING AND SWEEPING OF PAVEMENT WILL INCLUDE REMOVAL OF ALL PAVEMENT DEBRIS PRIOR TO THE PLACEMENT OF EACH BITUMINOUS PAVEMENT LIFT. ALL CLEANING AND SWEEPING SHALL BE DONE TO THE

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ROADWAYS FREE OF DEBRIS RESULTING FROM THEIR CONSTRUCTION OPERATIONS. ALL DEBRIS SHALL BE REMOVED TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.

8. NO FUEL STORAGE, VEHICLE REFUELING, OR EQUIPMENT STORAGE SHALL TAKE PLACE IN DESIGNATED WETLANDS, NOR WITHIN 100' OF ANY WATER BODY. THIS REQUIREMENT SHALL NOT SUPERSEDE ANY FEDERAL, STATE OR LOCAL LAW, ORDINANCE, RULE OR REGULATION THAT APPLIES TO THE SAME, UNLESS THIS REQUIREMENT IS MORE STRINGENT THAN SAID LAW, ORDINANCE, RULE OR REGULATION.

9. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT AT THE END OF FINAL PAVING OPERATIONS, FLOW TO EXISTING DRAINAGE STRUCTURES HAS BEEN REESTABLISHED AND THAT NO ISOLATED DEPRESSIONS REMAIN. THERE SHALL BE NO SEPARATE PAYMENT FOR THIS PROVISION; IT SHALL BE CONSIDERED

10. ALL EMBANKMENTS AND TRENCH BACKFILL SHALL BE PLACED IN HORIZONTAL LAYERS NOT EXCEEDING 12" (AFTER COMPACTION) AND SHALL BE COMPACTED AS SPECIFIED BEFORE THE NEXT LAYER IS PLACED.

1. ALL MAINTENANCE AND PROTECTION OF TRAFFIC CONTROL SETUPS, SIGNS, CHANNELIZING DEVICES, ETC., SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 2009 EDITION.

2. ALL SIGN MOUNTINGS SHALL BE IN ACCORDANCE WITH THE STATE D.O.T. STANDARD SPECIFICATIONS, LATEST

3. THE CONTRACTOR SHALL COVER ALL EXISTING AND/OR TEMPORARY SIGNS THAT ARE NOT RELEVANT TO THE TRAFFIC CONTROL REQUIRED DURING ANY PARTICULAR STAGE OF THE CONTRACT.

4. ADVANCE FLAGPERSON SIGNS SHALL BE USED IN ADVANCE OF ANY POINT AT WHICH A POLICE OFFICER HAS BEEN STATIONED TO CONTROL TRAFFIC. WHEN NEEDED, AN APPROPRIATE DISTANCE MESSAGE MAY BE DISPLAYED ON A SUPPLEMENTAL PLATE (24"x18") BELOW THE FLAGPERSON SYMBOL SIGN. THE SIGN SHALL BE PROMPTLY REMOVED OR COVERED WHENEVER THE FLAGPERSON IS NOT AT THE STATION.

5. POLYETHYLENE DRUMS SHALL BE UTILIZED AS A CHANNELIZING DEVICE WHEN A TRAFFIC CONTROL SET-UP IS TO REMAIN BEYOND WORKING HOURS WHEN NO WORKERS ARE PRESENT. CONES SHALL BE UTILIZED WHEN A TRAFFIC CONTROL SET-UP IS TO REMAIN ONLY DURING WORKING HOURS AND IS SUBSEQUENTLY BROKEN DOWN AT THE END OF THE WORKDAY.

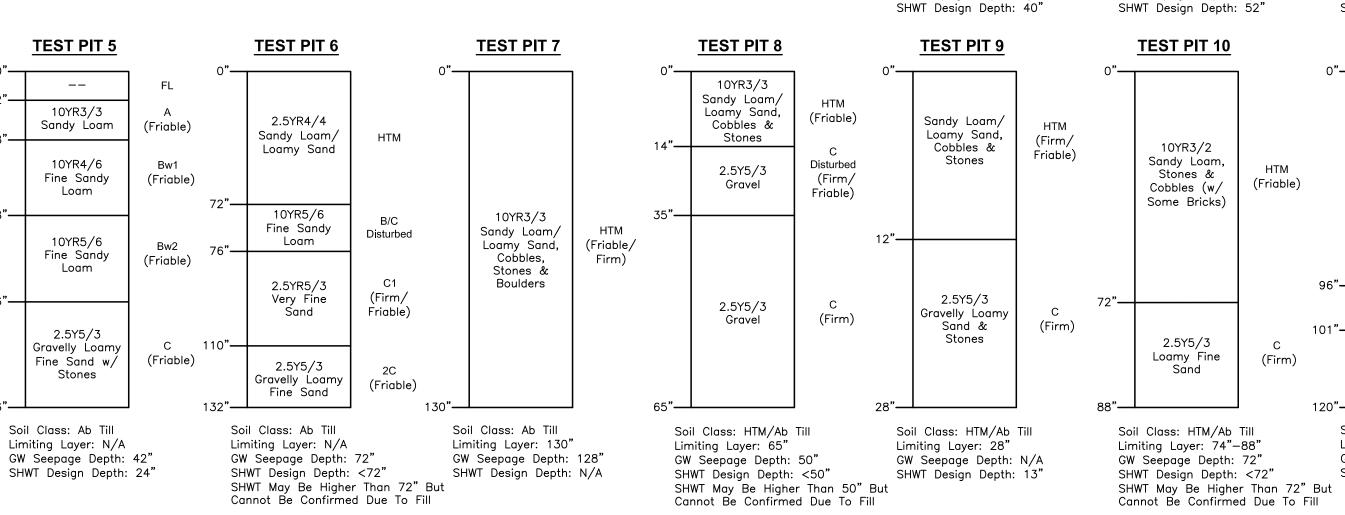
6. TEMPORARY CONSTRUCTION SIGNS AND OTHER WORKZONE TRAFFIC CONTROL DEVICES THAT ARE DAMAGED OR REQUIRE RELOCATION SHALL BE REPLACED AND / OR RELOCATED UNDER THE PAY ITEM FOR "MAINTENANCE AND MOVEMENT TRAFFIC PROTECTION."

7. THE PRIVATE VEHICLES OF CONSTRUCTION WORKERS SHALL NOT BE PARKED ON THE TRAVEL LANES OR

8. TEMPORARY CONSTRUCTION SIGNS AND OTHER TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE INSTALLED PRIOR TO THE START OF WORK IN ANY AREA OPEN TO TRAFFIC. AND SHALL BE REMOVED AS SOON AS PRACTICAL WHEN THEY ARE NO LONGER APPROPRIATE.

9. THE INTENDED VEHICLE PATHS THROUGH EACH WORK ZONE SHALL BE CLEARLY MARKED AT ALL TIMES.

THE PLAN SET IS SUBJECT TO REVIEW AND REVISIONS. THE RIDEM WETLANDS, STORMWATER, OWTS PERMIT APPLICATIONS ARE TENTATIVELY TO BE FILED AUGUST 2023.



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TEST PIT B

10YR3/4

Fine Sandy

Loam

10YR4/6

Fine Sandy

Loam

10YR5/6

Very Fine

Sandy Loam

2.5Y5/3

Stony Gravelly

Loamy Sand

Limiting Layer: 48"(N),72"(S)

GW Seepage Depth: N/A

Soil Class: Ab Till

Oe

(Friable)

Bw1

Bw2

(Friable)

(Friable)

(Friable)

TEST PIT A

10YR3/4

Fine Sandy

Loam

10YR4/6

Fine Sandy

Loam

10YR5/6

Fine Sandy

2.5Y5/3

Stonv Gravellv

Loamy Sand

Soil Class: Ab Till

Limiting Layer: 62"

GW Seepage Depth: N/A

16"

33"-

(Very

riable)

(Very

riable)

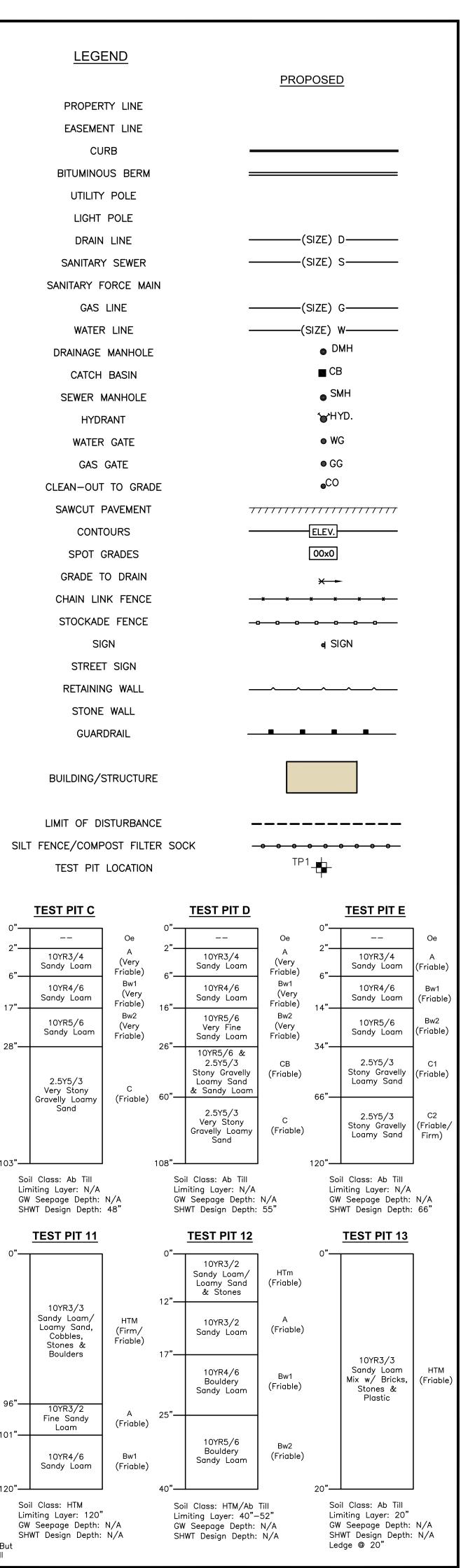
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Friable)

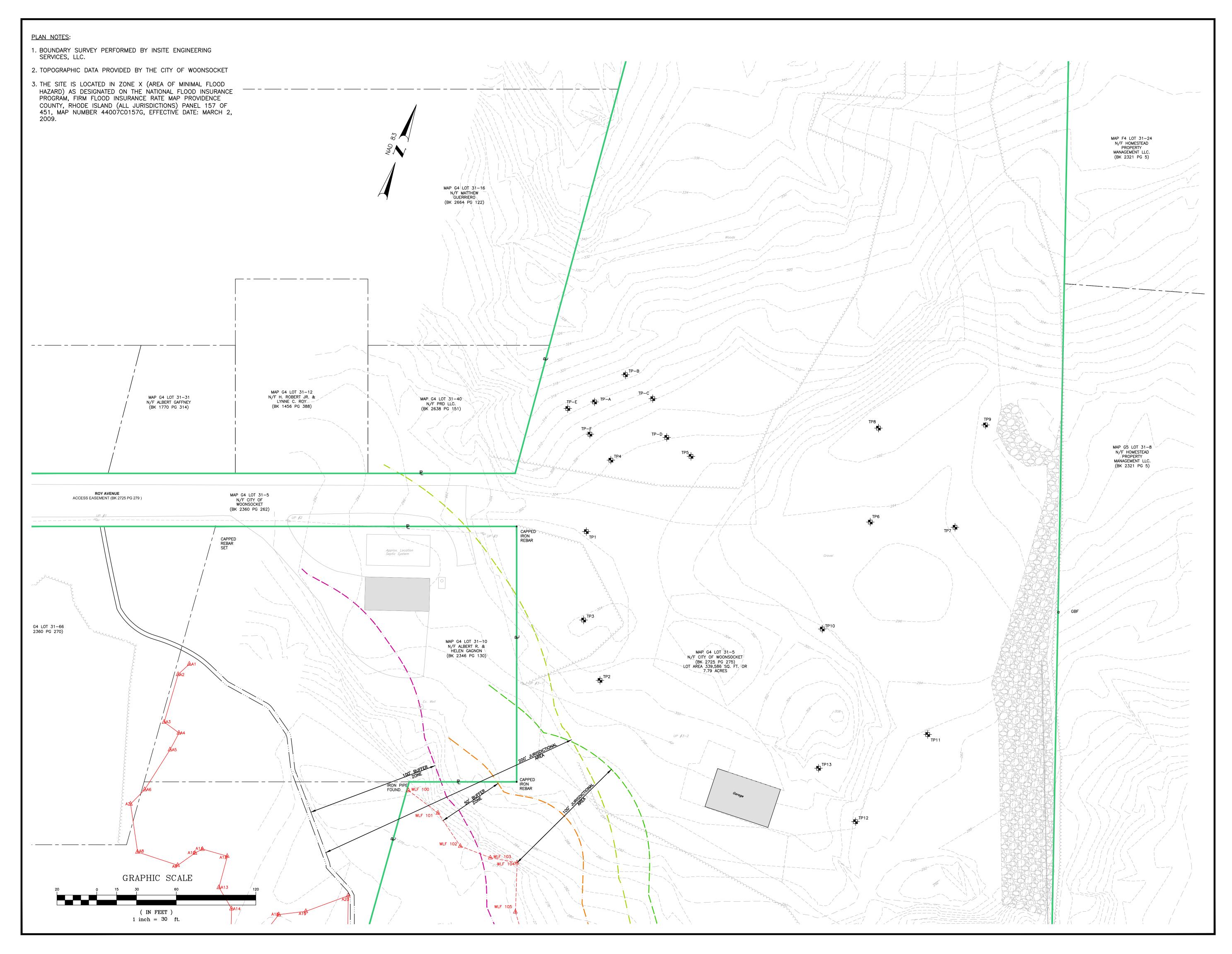
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16"

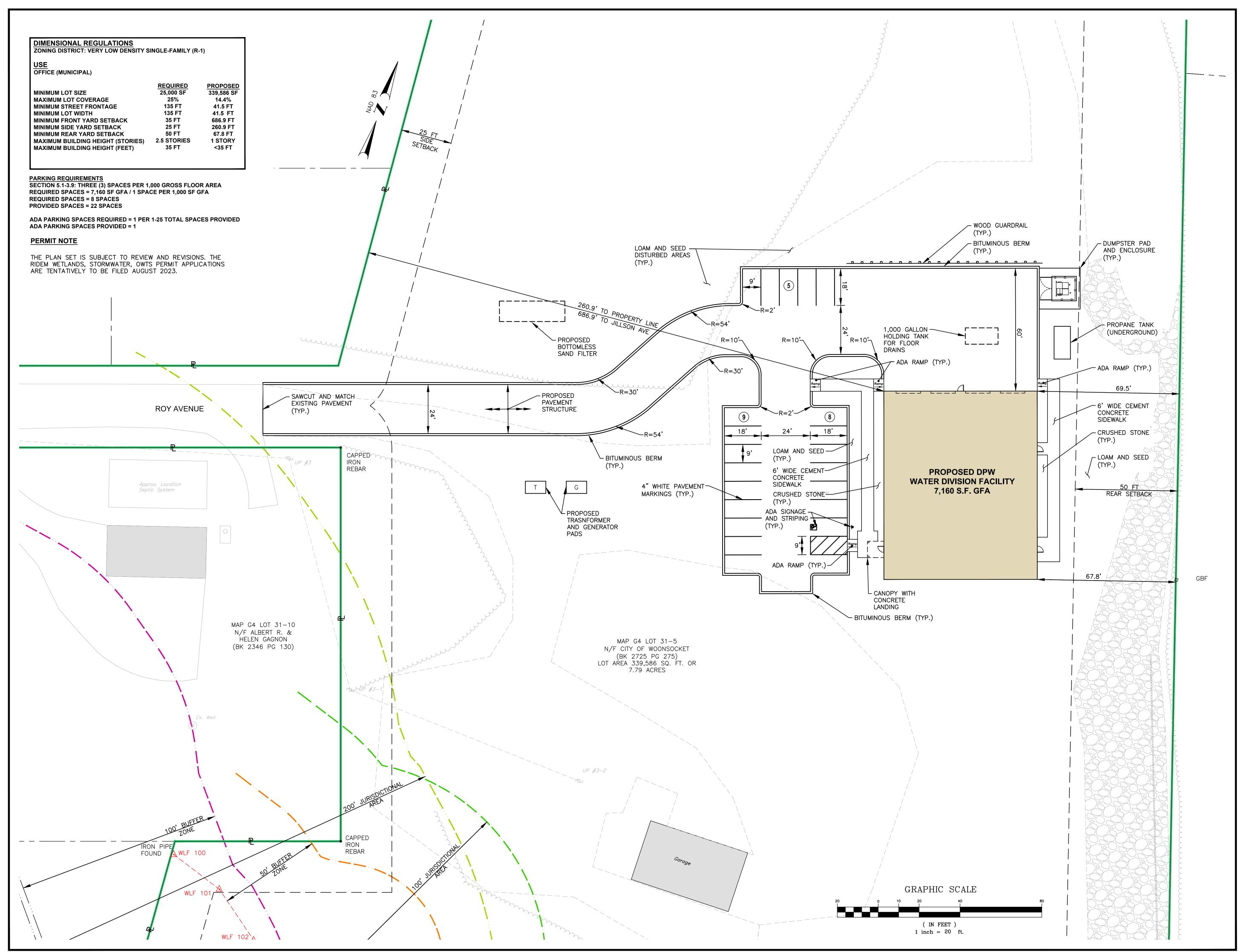
48"/58"-



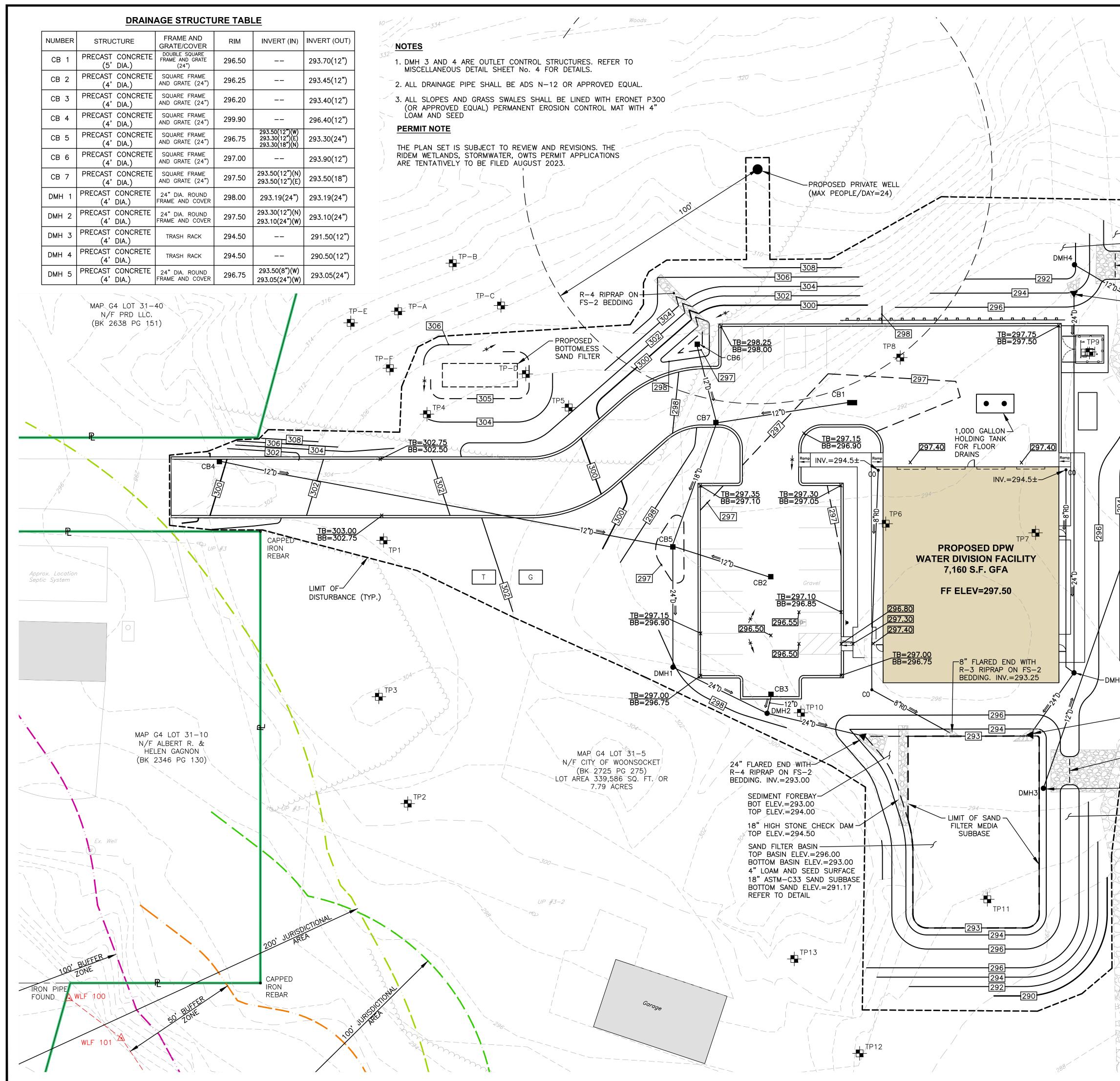
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<u>Rhode Island</u> 151 Centerville F Warwick, RI 02 Phone (401) 738-	Road 10 886 N 5660	orth Attlebo Phone (508	vealth Avenue ro, MA 02763 8) 695-1700
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	 Civil Transportation Environmental Site Planning Surveying Permitting Landscape Architecture 			
<u>Rhode Island</u> 151 Centerville Ro Warwick, RI 028 Phone (401) 738-5 Email:	oad 103 Commonwealth Avenue 86 North Attleboro, MA 02763 5660 Phone (508) 695-1700 cei@crossmaneng.com			
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 \gtrsim / 10' WIDE TOP EMBANKMENT ELEV.=296.00 - GRASS DEPRESSION TOP ELEV.=296.00 BOTTOM ELEV.=292.00 -10' WIDE EMERGENCY SPILLWAY WEIR ELEV.=295.00 -2/4" FLARED END/WITH Ŕ−4 RIPRAP ON/ FS−2 / BEDDING. INV.=293.25 -12" FLARED END WITH R-4 RIPRAP ON FS-2 BEDDING. /INV.=290.00 MAP G5 LOT 31-8 N/F HOMESTEAD PROPERTY MANAGEMENT LLC. (BK 2321 PG 5) 292 12" FLARED END WITH R-4 RIPRAP ON FS-2 BEDDING. INV.=290.00 294 -LIMIT OF DISTURBANCE (TYP.) -DMH5 GBF -24" FLARED END WITH R-4 RIPRAP ON FS-2 BEDDING. INV.=293.00 10' WIDE EMERGENCY SPILLWAY WEIR ELEV.=295.00 -OUTLET CONTROL STRUCTURE REFER TO DETAIL. 8' WIDE TOP EMBANKMENT -ELE∀.=296.00 GRAPHIC SCALE (IN FEET) 1 inch = 20 ft.

	 Civil Transportation Environmental Site Planning Surveying Permitting Landscape Architecture
<u>Rhode Island</u> 151 Centerville Road Warwick, RI 02886 Phone (401) 738-5660	Engineering <u>Massachusetts</u> 103 Commonwealth Avenue North Attleboro, MA 02763 Phone (508) 695-1700 prossmaneng.com
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UTILITY NOTES

- 1. PRIOR TO ANY UTILITY CONSTRUCTION, THE CONTRACTOR MUST PERFORM ADDITIONAL TESTS TO:
 - A. CONFIRM THE EXISTING DEPTHS OF UTILITIES AT ALL PROPOSED CONNECTION POINTS AND POTENTIAL CROSSOVER (CONFLICT) POINTS.
 - B. CONFIRM THE EXTENT OF LEDGE WHICH MAY EXIST IN ALL ANTICIPATED UTILITY TRENCH AREAS. PRIOR TO CONSTRUCTION, THE FINDINGS ARE TO BE REVIEWED BY THE OWNER AND THE ENGINEER. IF NECESSARY, ALTERNATIVES TO MINIMIZE LEDGE OVAL AND UTILITY CONFLICTS WILL BE DEVELOPED. NO CONSTRUCTION WILL BE ALLOWED WITHOUT THE OWNERS AUTHORIZATION.
- 2. ANY MODIFICATIONS TO THE PROPOSED UTILITIES TO AVOID CONFLICTS MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION. NO EXTRA PAYMENT TO THE CONTRACTOR DUE TO RELOCATIONS WILL BE AUTHORIZED.
- 3. THE UTILITY PLAN DOES NOT DEPICT THE NECESSARY ELECTRICAL CONDUIT/WIRING TO SERVICE THE PROPOSED LIGHTING, WHICH WILL BE INSTALLED BY THE CONTRACTOR FOR NO ADDITIONAL COST.
- 4. THE UTILITY PLAN DOES NOT REPRESENT THE SITE ELECTRIC/TELEPHONE/ COMMUNICATION SYSTEM DESIGNS.
- 5. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL BY ENGINEER PRIOR TO ORDERING ANY MATERIAL.
- FULL REPAIR OR REPLACEMENT OF DAMAGED UTILITIES AT NO ADDITIONAL COST TO THE OWNER.
- 7. CONTRACTOR SHALL COORDINATE GAS AND ELECTRIC INSTALLATION WITH UTILITY COMPANIES. CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATION, TRENCHING, BACKFILLING AND COMPACTION FOR SERVICE INSTALLATION.
- 8. ALL PIPES AND CONDUITS ADJACENT TO THE CULVERT SHALL BE SLEEVED. USE CASING SPACERS AND SLEEVE END CAPS AT ALL LOCATIONS.

SANITARY NOTES

- 1. CONTRACTOR SHALL CONFIRM FINAL SANITARY PLUMBING LOCATIONS AND INVERTS WITH ARCHITECT AND ENGINEER PRIOR TO CONSTRUCTION.
- 2. THE SEPTIC SYSTEM AND ALL COMPONENTS DEPICTED ON THE PLAN REPRESENT A CONCEPTUAL LAYOUT AND ARE NOT INTENDED FOR CONSTRUCTION. THE OWNER AND ENGINEER SHALL FURNISH FINAL OWTS DESIGN PLANS TO THE CONTRACTOR FOLLOWING LOCAL AND STATE PERMIT APPROVALS.

TP-

TELECOMMUNICATION SERVICE

UTILITY PROVIDERS

CAPPED

WTP #3-

CAPPED IRON

REBAR

IRON REBAR

CB4

ELECTRIC AND TELECOMMUNICATION NOTE

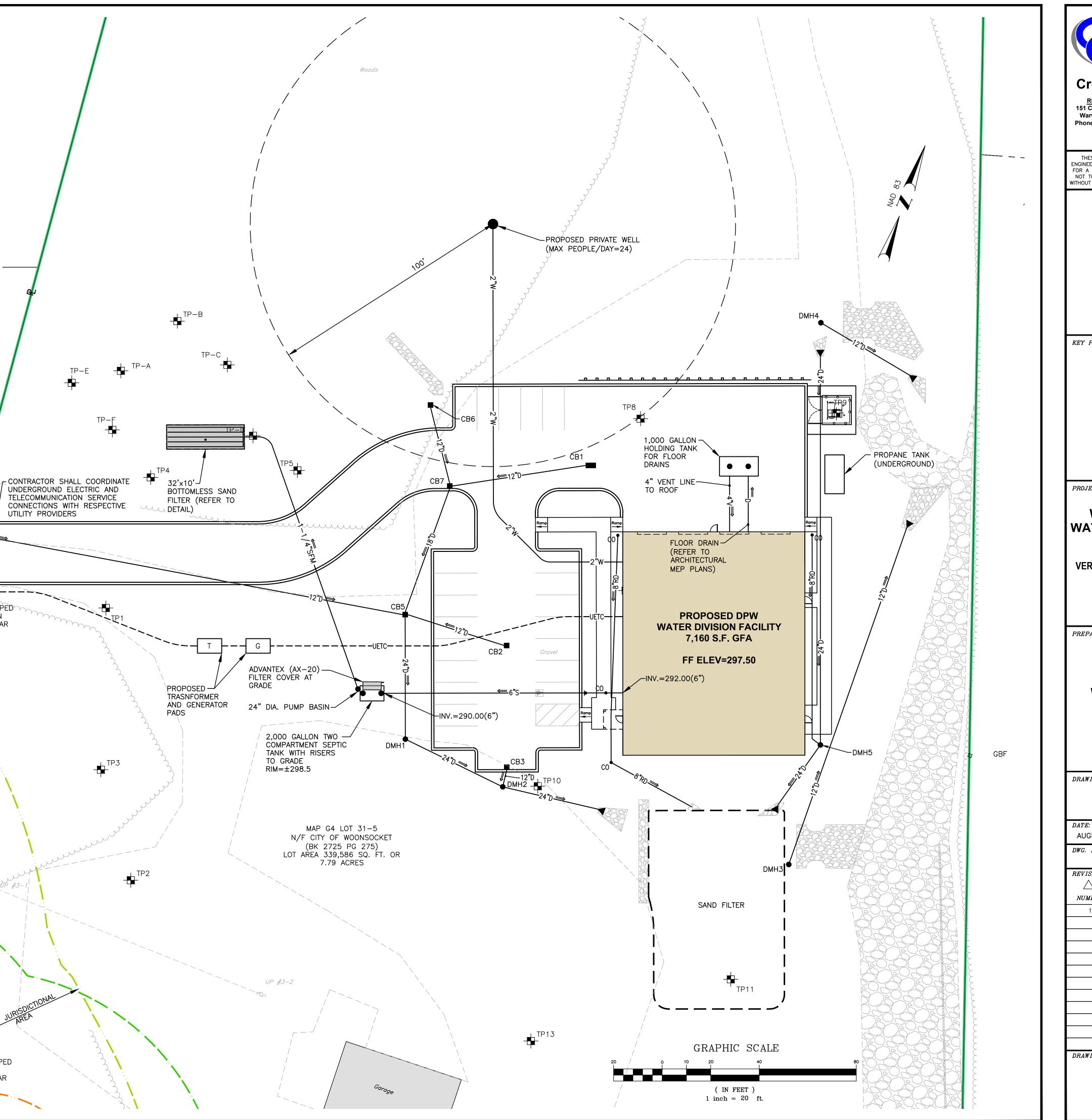
1. THE PROPOSED ELECTRIC AN TELECOMMUNICATION SERVICE DESIGN SHALL BE PERFORMED BY OTHERS AND COORDINATED WITH THE CONTRACTOR AND ENGINEER PRIOR TO CONSTRUCTION

ORENCO SYSTEM NOTES

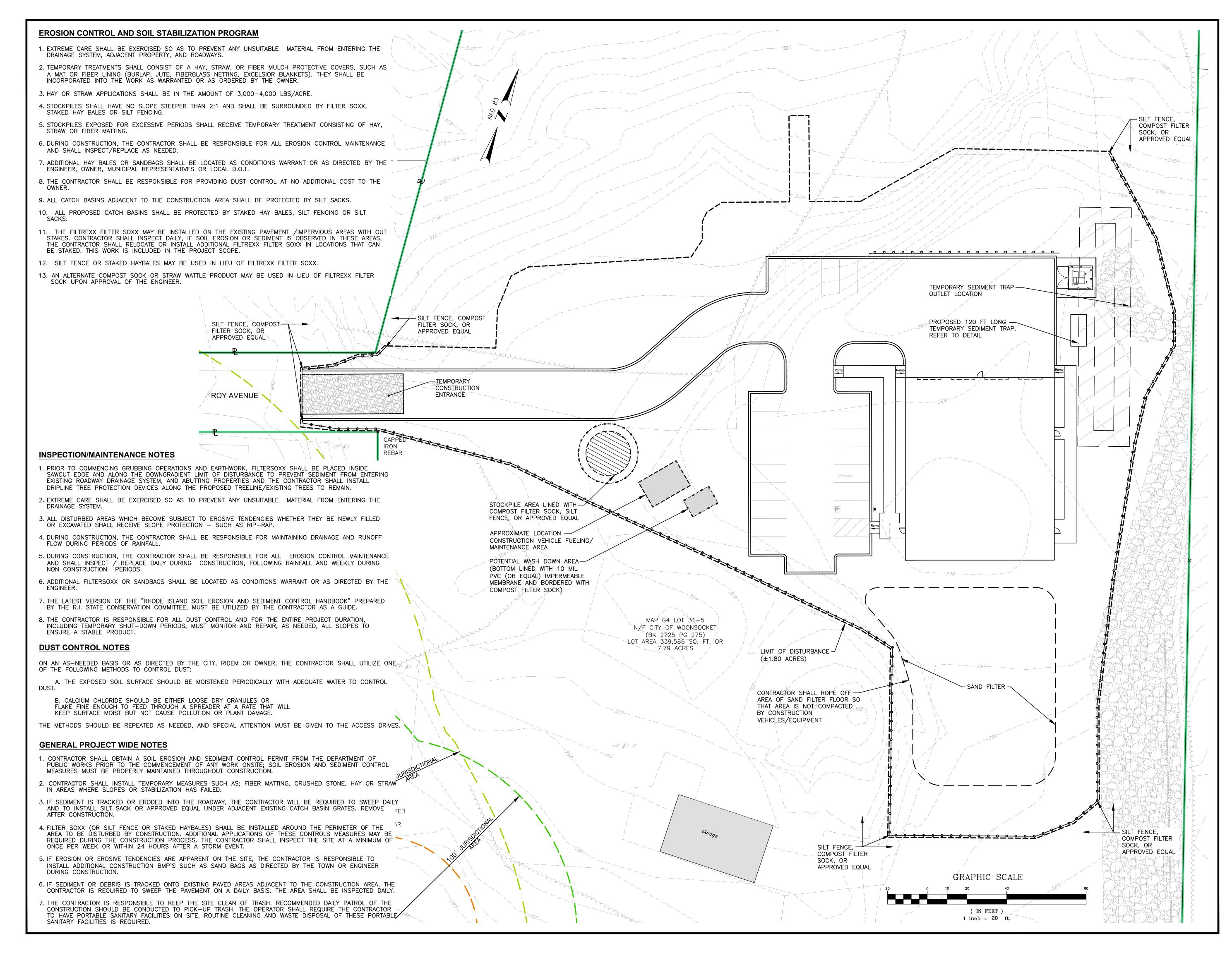
- 1. THE SYSTEM SHALL BE EQUIPPED WITH AN HOUR METER AND AUDIBLE & 💳 💳 VISUAL ALARMS TO INDICATE POWER INTERRUPTION TO THE SYSTEM. THE INDICATORS SHALL BE MOUNTED ON A N.E.P.A. APPROVED CABINET ON A POST EXTERIOR TO THE BUILDING AT A LOCATION APPROVED BY OWNER AND ALARMS (AUDIBLE & VISUAL) SHALL BE LOCATED WITHIN THE HOUSE.
- 2. A PUBLIC OR PRIVATE ENTITY SHALL BE RETAINED CONTINUOUSLY FOR THE LIFE OF THE SYSTEM AND BE AVAILABLE TO PERFORM NEEDED OF THE SYSTEM AT LEAST TWICE ANNUALLY. THE ENTITY MUST BE APPROVED BY R.I.D.E.M. AND ADHERE TO ALL R.I.D.E.M. RECOMMENDED REPORTING REQUIREMENTS.
- 3. ABILITY TO CONNECT TO STANDBY POWER SUPPLY IS RECOMMENDED.
- 4. THE SEPTIC TANK AND PUMP CHAMBERS SHALL BE WATER-TIGHT. CONCRETE ANTI-FLOTATION COLLARS SHALL BE REQUIRED DUE TO FLUCTUATING GROUNDWATER LEVELS. A MINIMUM 8" LAYER OF GRAVEL SHALL BE SET LEVEL TO FORM A STABLE BASE.
- 5. A HIGH LEVEL WATER ALARM (VISUAL and AUDIBLE) POWERED BY A CIRCUIT SEPARATE FROM THE PUMP SHALL BE LOCATED IN THE HOUSE.
- 6. ALL PLUMBING AND ELECTRICAL WORK AND MATERIALS SHALL CONFORM TO ALL STATE, FEDERAL AND LOCAL CODES.
- 7. ALL PROCEDURES AND MATERIALS MUST ALSO CONFORM TO THE RECOMMENDATIONS AND REQUIREMENTS OF ORENCO SYSTEMS INCORPORATED AND ATLANTIC SOLUTIONS, LTD.
- 8. BOTTOMLESS SAND FILTER SHALL FOLLOW A TIMED DOSED ORENCO AX-20 ADVANCED TREATMENT SYSTEM.
- 9. THE CONTRACTOR AND SITE OWNER MUST BE FAMILIAR WITH AND MUST FULLY CONFORM TO THE R.I.D.E.M. "GUIDELINES FOR THE DESIGN AND T 31-10 USE AND MAINTENANCE OF PRESSURIZED DRAINFIELDS", NOVEMBER 2013 R. & INCLUDING ADDENDA. AGNON PG 130)
- 10. FILTER SAND MEDIA TO CONFORM TO ASTM 33 SAND WITH AN EFFECTIVE SIZE (D10) OF 0.3 mm AND UNIFORMITY COEF. (D60/D10) OF 3.0-4.0. MAXIMUM ALLOWABLE PERCENTAGE OF FINES PASSING NO. 200 SIEVE = 1% (ASTM D-136 AND ASTM C-117). TEST DATA SHALL BE PROVIDED TO DESIGNER PRIOR TO PURCHASE.
- 11. CONTROL PANEL PLACEMENT SHALL BE COORDINATED WITH THE OWNER.
- 12. ALL PUMP SYSTEMS, DISTRIBUTION SYSTEMS AND ADVANCED TREATMENT COMPONENTS SHALL BE MANUFACTURED BY ORENCO SYSTEMS, INC.
- 13. ALL PVC GRAVITY FLOW PIPING TO BE SOLID SCH. 35 OR SCH. 40 UNLESS OTHERWISE NOTED.
- 14. THE CONTRACTOR SHALL RETAIN THE SERVICES OF ORENCO ADVANTEX TO INSTALL THE ADVANTEX SYSTEM INCLUDING THE TANKS, PIPING, PUMPS, WIRING AND CONTROL PANELS. CERTIFICATIONS FROM THE MANUFACTURER SHALL BE PROVIDED TO THE DESIGN ENGINEER THAT THE SYSTEM HAS BEEN INSTALLED CORRECTLY AND WILL OPERATE IN ACCORDANCE WITH RIDEM REGULATIONS AND THE MANUFACTURER'S OPERATION REQUIREMENTS.
- 15. TRAINING OF THE ORENCO ADVANTEX COMPONENTS AND OPERATION REQUIREMENTS SHALL BE PROVIDED TO THE OWNER BY THE MANUFACTURER'S REPRESENTATIVE UPON INSTALLATION COMPLETION.

PERMIT NOTE

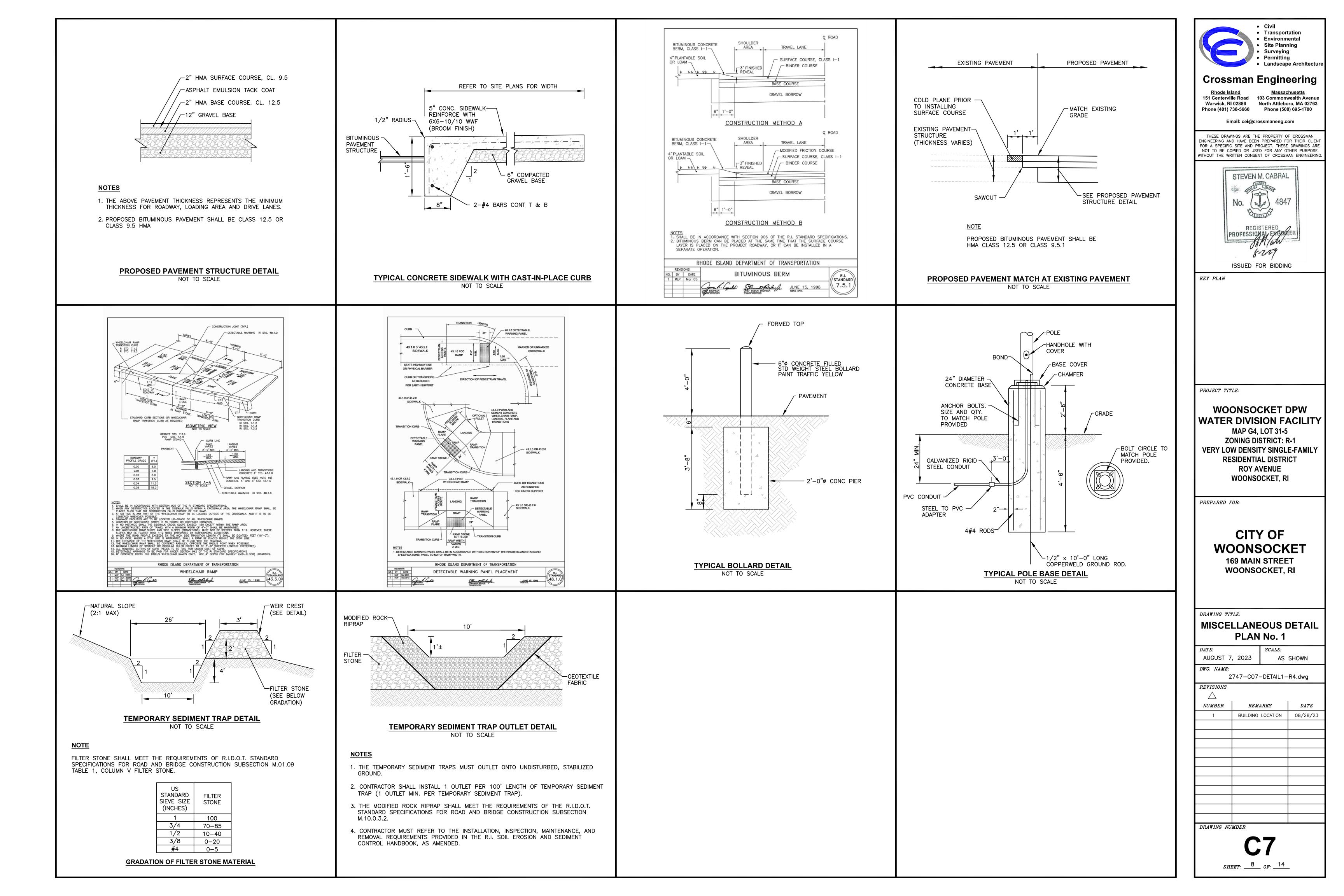
THE PLAN SET IS SUBJECT TO REVIEW AND REVISIONS. THE RIDEM WETLANDS, STORMWATER, OWTS PERMIT APPLICATIONS ARE TENTATIVELY TO BE FILED AUGUST 2023.

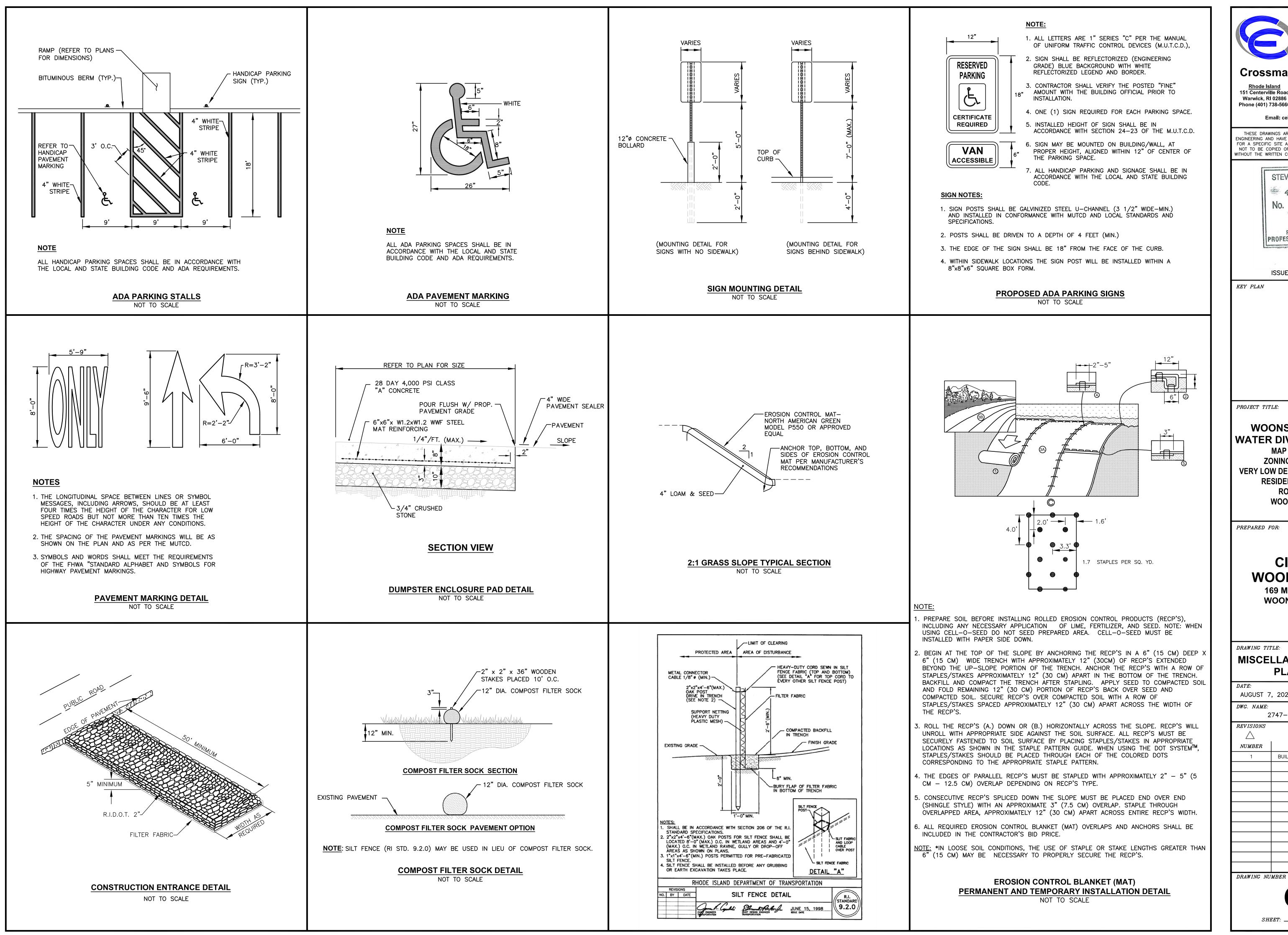


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Phone (401) 7	38-5660	Phone (508 ossmaneng.co	8) 695-1700
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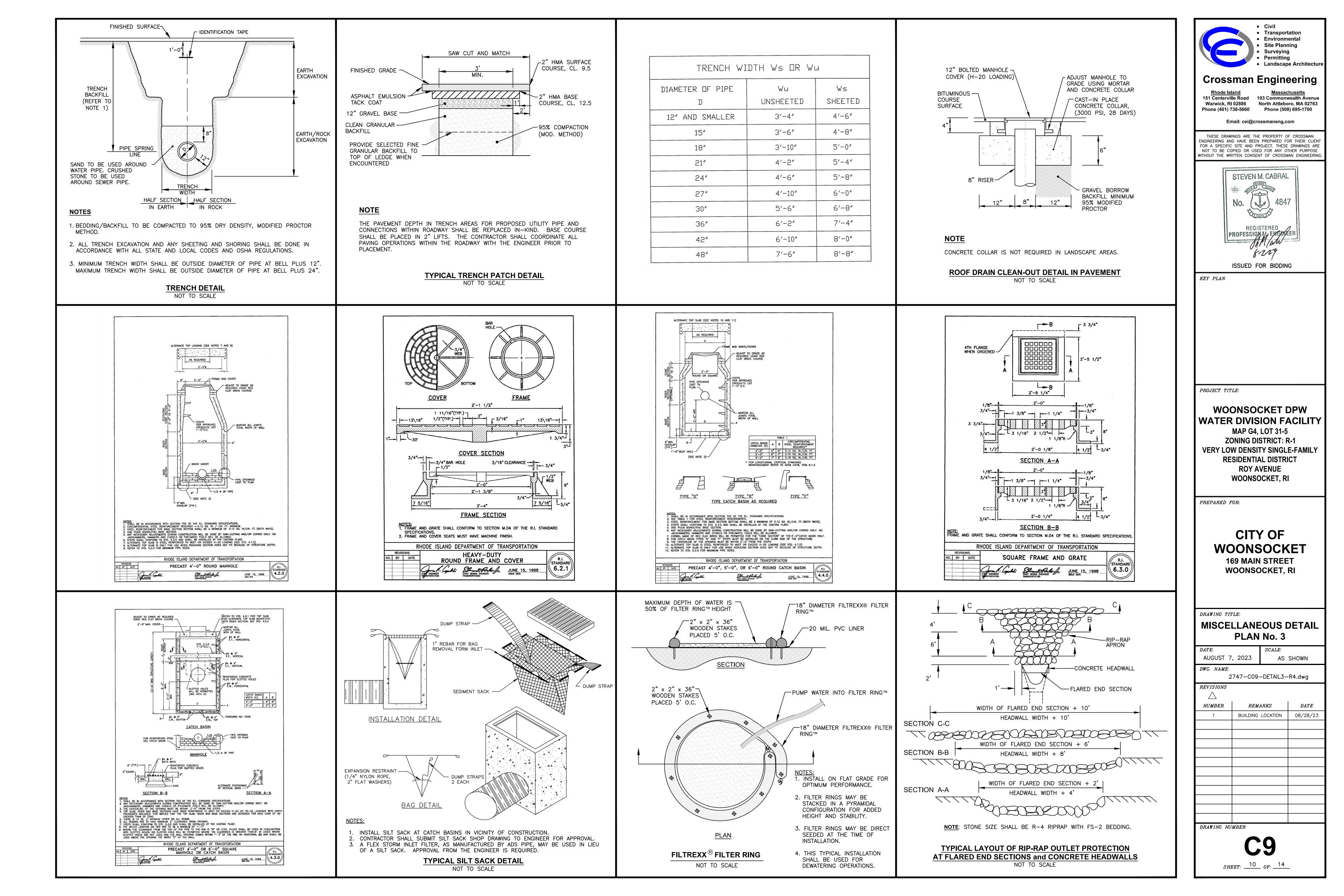


 Civil Transportation Environmental Site Planning Surveying Permitting Landscape Architecture
Rhode IslandMassachusetts151 Centerville RoadMassachusettsVarwick, RI 02886103 Commonwealth AvenueNorth Attleboro, MA 02763North Attleboro, MA 02763Phone (401) 738-5660Phone (508) 695-1700Email: cei@crossmaneng.com
THESE DRAWINGS ARE THE PROPERTY OF CROSSMAN ENGINEERING AND HAVE BEEN PREPARED FOR THEIR CLIENT FOR A SPECIFIC SITE AND PROJECT. THESE DRAWINGS ARE NOT TO BE COPIED OR USED FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN CONSENT OF CROSSMAN ENGINEERING.
STEVEN M. CABRAL No. HOLE 4847 REGISTERED PROFESSIONAL ENCARER HAMMAN STUTY ISSUED FOR BIDDING
KEY PLAN
WOONSOCKET DPW WATER DIVISION FACILITY MAP G4, LOT 31-5 ZONING DISTRICT: R-1 VERY LOW DENSITY SINGLE-FAMILY RESIDENTIAL DISTRICT ROY AVENUE WOONSOCKET, RI
CITY OF WOONSOCKET 169 MAIN STREET WOONSOCKET, RI
DRAWING TITLE: SOIL EROSION and SEDIMENT CONTROL PLAN
DATE: SCALE: AUGUST 7, 2023 1"=20'
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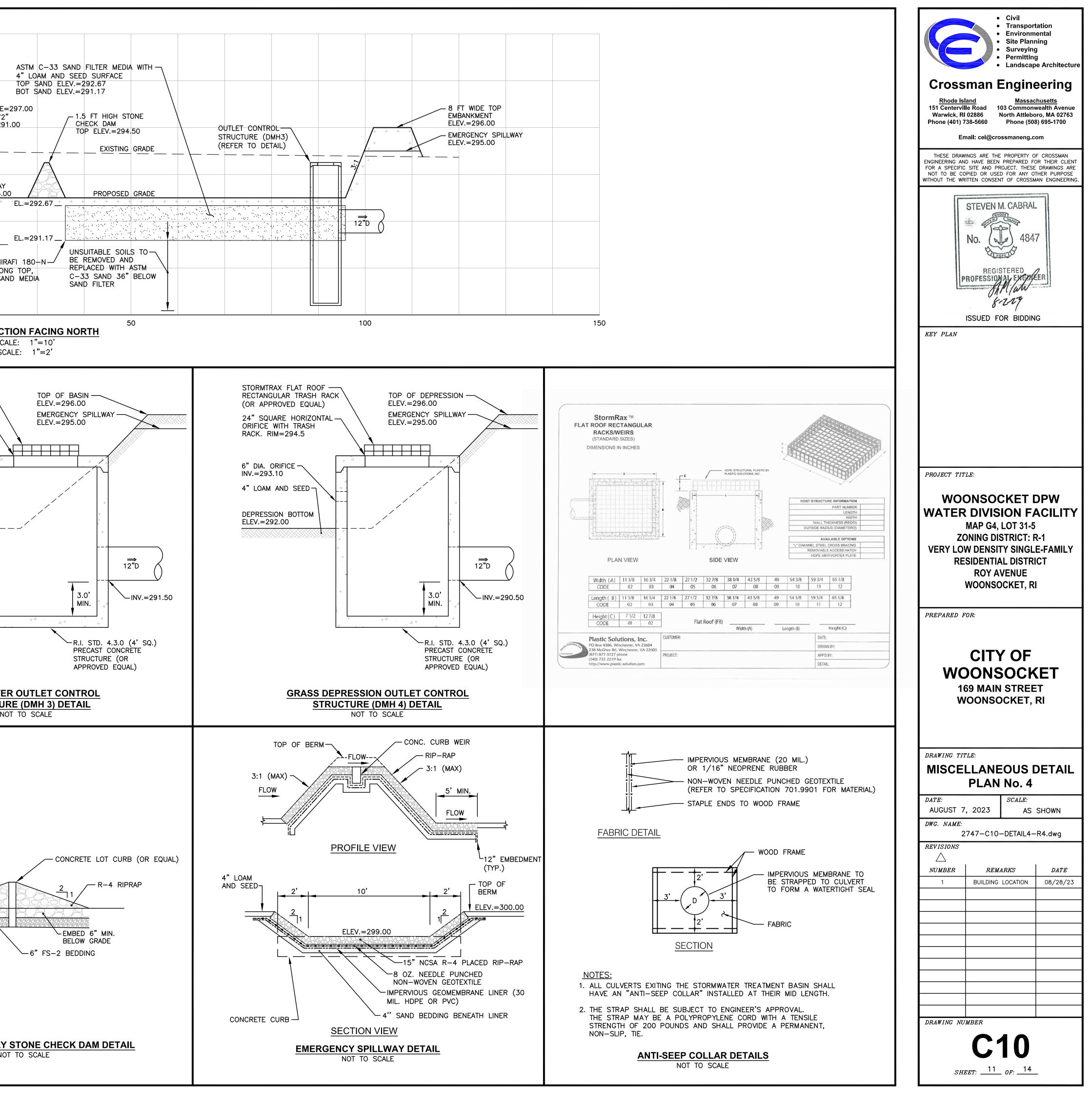


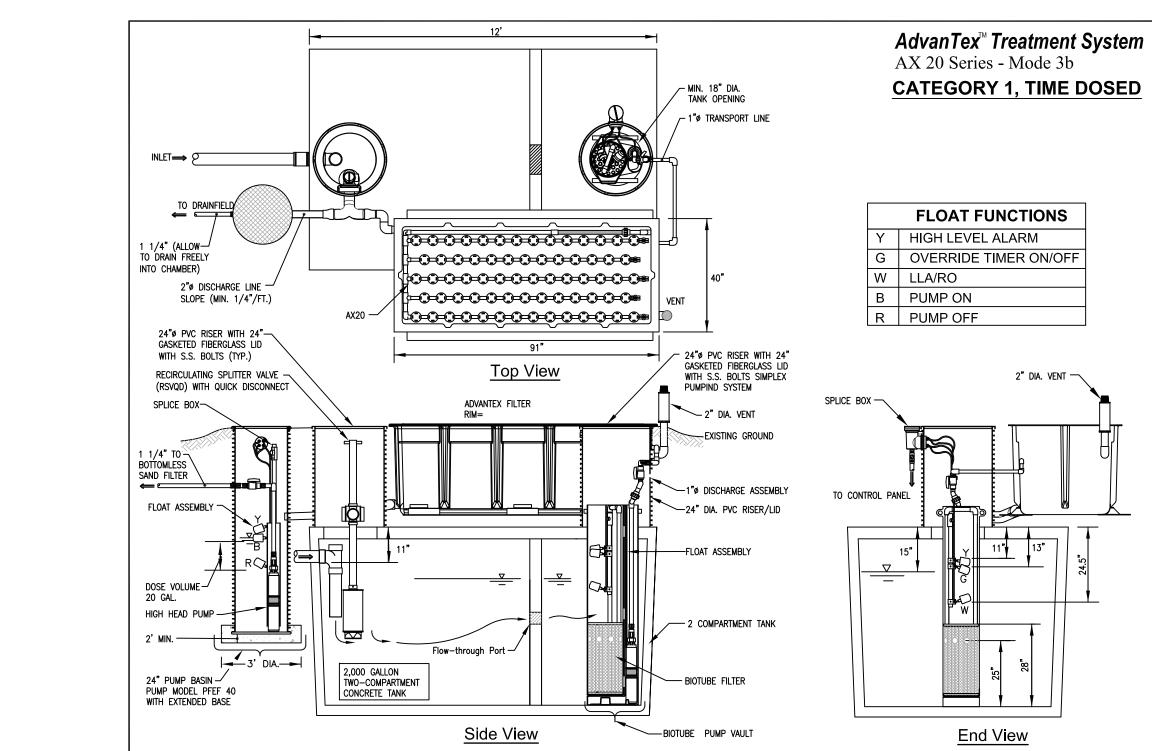


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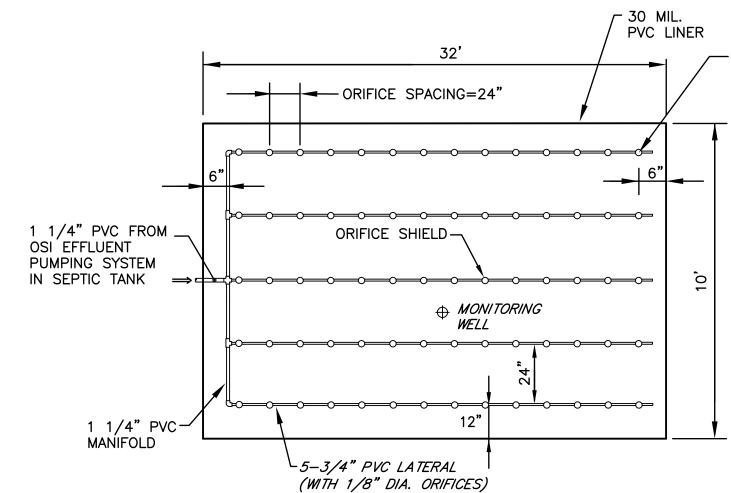
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1. CONTRACTOR TO VERIFY THAT ALL STRUCTURES ARE COMPATIBLE WITH FRAME AND GRATE.	
2. CONTRACTOR IS RESPONSIBLE TO PROVIDE SHOP DRAWINGS AND SPECIFICATIONS FOR ALL DRAINAGE RELATED ITEMS FOR REVIEW AND APPROVAL BY THE ENGINEER, PRIOR TO ORDERING. CONCRETE MANUFACTURER SHALL REVIEW RIM TO TOP OF PIPE 298 ELEVATIONS AND PROVIDE SPECIFIC DETAILS.	
3. ALL STRUCTURES SHALL BE DESIGNED FOR H-20 LOADING.	TP#10 EX GRADE
4. ALL CATCH BASINS SHALL BE PRECAST CONCRETE WATER TIGHT STRUCTURES. (NO WEEP HOLES). 296	ESHWT=72 ESHWT=29
5. UNLESS OTHERWISE NOTED, ALL SOLID DRAINAGE PIPE SHALL BE ADS N-12 HDPE OR APPROVED EQUAL. PIPE BEDDING SHALL BE IN CRUSHED STONE OR GRAVEL BORROW COMPACTED TO 95% DRY DENSITY (MODIFIED PROCTOR METHOD). ADS PIPE SHALL BE INSTALLED ACCORDING TO MANUFACTURERS' REQUIREMENTS. PIPES SHALL BE INSTALLED WITH CLAY TRENCH DAMS EVERY 50' (MINIMUM 1 PER PIPE).	
6. GRADES WITHIN HANDICAP ACCESSIBLE PARKING SPACES AND AISLES SHALL NOT BE LESS THAN 1% OR GREATER THAN 2%.	SEDIMENT FOREBAY BOTTOM ELEV.=293.0
7. ALL ROOF DRAINS SHALL BE INSTALLED AT A 1.0% MINIMUM SLOPE.	
8. CONTRACTOR MAY NEED TO RELOCATE PIPE TO AVOID CONFLICTS WITH EXISTING UTILITIES. COORDINATE RELOCATION WITH ENGINEER. NO ADDITIONAL PAYMENT WILL BE PROVIDED FOR DAMAGE TO EXISTING UTILITIES. CONTRACTOR IS RESPONSIBLE TO INCLUDE ALL WORK NECESSARY TO INSTALL THIS PIPE, INCLUDING TRANSPLANTING OR PLANTING NEW TREES IF NECESSARY.	EL.=291.00
OR OR	APPROVED EQUAL) ALOI TOM, AND SIDES OF SA
1. THE CONTRACTOR SHALL REMOVE ALL TOPSOIL AND SUBSOIL AREAS (A AND B	
HORIZONS), HTM/FILL, AND ANY EXISTING SOILS THAT YIELD A PERMEABILITY RATE 288	SAND FILTER SEC X-AXIS SC Y-AXIS SC
2. SAND FILTER CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE RHODE ISLAND STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL, LATEST EDITION. AFTER CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE FINAL INSPECTIONS WITH THE	RAX FLAT ROOF GULAR TRASH RACK PROVED EQUAL) JARE HORIZONTAL —
	WITH TRASH RIM=294.5
4. THE CONTRACTOR IS RESPONSIBLE TO BECOME FAMILIAR WITH THE ABOVE INV.=293 REFERENCED MANUAL. THE MANUAL CAN BE FOUND AT:	ORIFICE
5. GREAT CARE MUST BE TAKEN TO PREVENT THE INFILTRATION AREA FROM COMPACTION; BY MARKING OFF THE UNDERGROUND INFILTRATION SYSTEM AND SAND FILTER LOCATIONS BEFORE THE START OF CONSTRUCTION, AND BY CONNECTING UPSTREAM DRAINAGE AREAS ONLY AFTER CONSTRUCTION IS COMPLETE AND THE CONTRIBUTING AREA IS STABILIZED.	оттом
6. IF LARGE ROCKS OR BOULDERS ARE FOUND WITHIN 36" BELOW THE INFILTRATION SYSTEMS, OR WITHIN A 10' PERIMETER AROUND SYSTEM, THE CONTRACTOR SHALL REMOVE THE ROCKS/BOULDERS AND REPLACE WILL GRAVEL BORROW. CONTRACTOR SHALL COORDINATE WITH ENGINEER.	
6. THE CONTRACTOR MUST SUBMIT SHOP DRAWINGS FOR THE PIPES TO BE USED IN THE UNDERGROUND INFILTRATION SYSTEM AND SAND FILTERS TO THE ENGINEER PRIOR TO CONSTRUCTION. THE SHOP DRAWINGS MUST VERIFY THAT THE PIPES CAN SUPPORT H-20 LOADING WITH THE SYSTEM SPECIFIC COVER.	4
7. ALL MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO THE MANUFACTURER'S REQUIREMENTS AND SPECIFICATIONS. THE CONTRACTOR SHALL COORDINATE WITH A CULTEC REPRESENTATIVE FOR INSTALLATION SPECIFICATIONS AND PROCEDURES.	<u>A</u>
	SAND FILTE
	STRUCTU
18"	

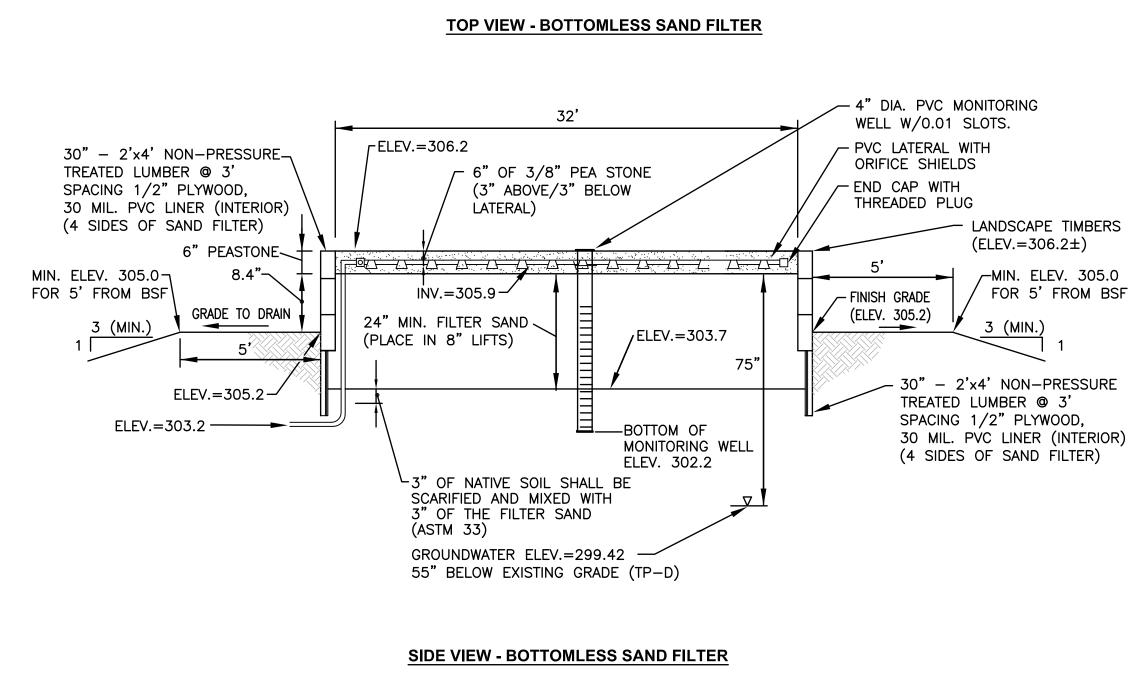




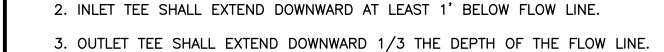
<u>NOTE</u>

SUPPLIER MUST PROVIDE ANTI-FLOTATION COLLARS TO ADDRESS SEASONAL HIGH WATER TABLE OF 299.42.





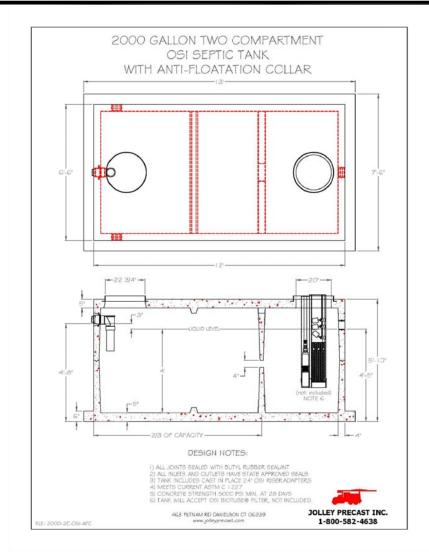
BOTTOMLESS SAND FILTER NOT TO SCALE



1. ALTERNATE PRECAST MANUFACTURER MAY BE USED BUT WILL REQUIRE APPROVAL FROM ENGINEER PRIOR TO CONSTRUCTION.

SEPTIC TANK DETAIL

<u>NOTES</u>



— 16 ORIFICES PER LATERAL

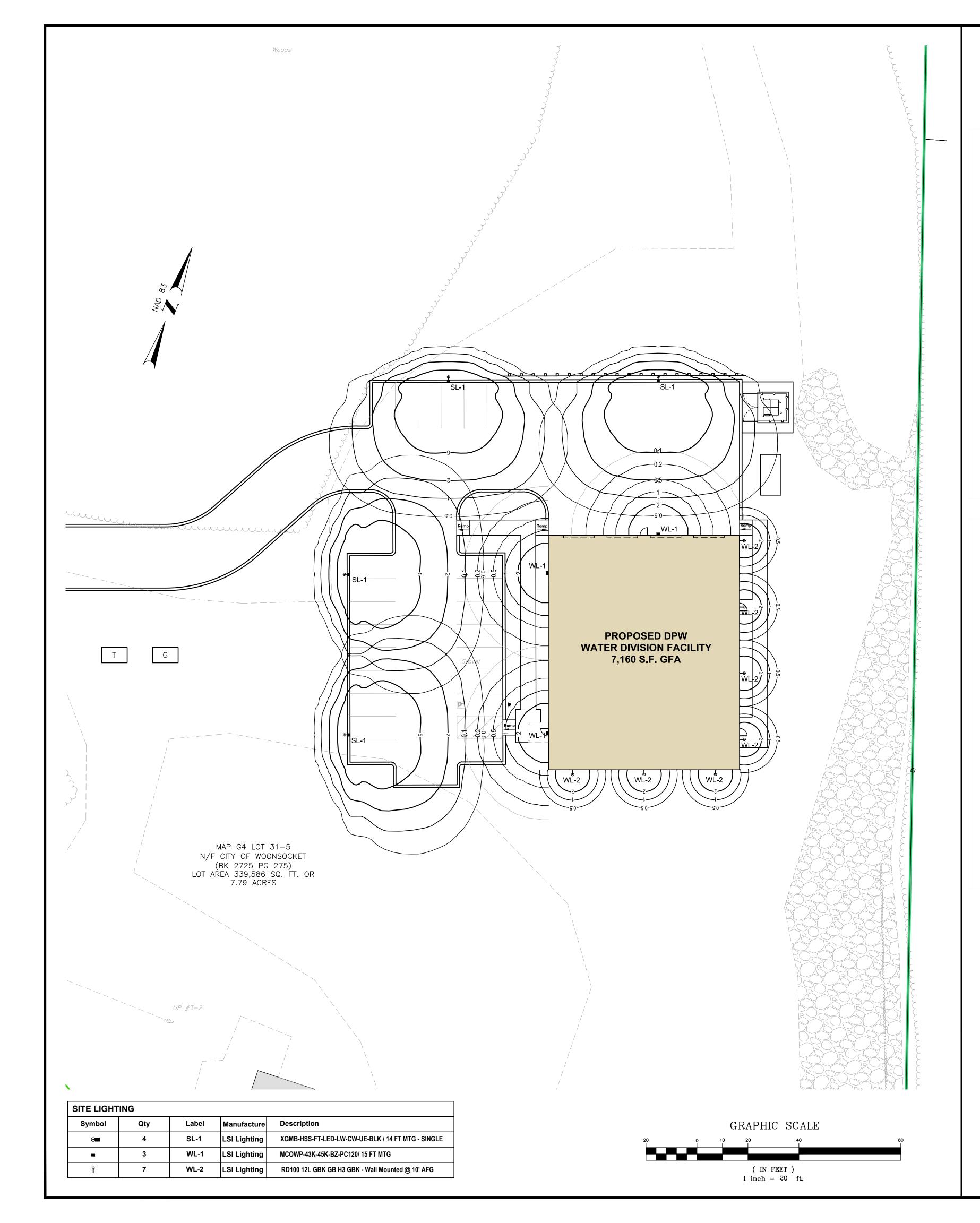
)**))** | ge 50 AX | Tex Advan NDW-AT ing Draw Date: ğ Drawr Drawi Revisi ЖI Š. 5 | /ed Desig Appro Date U.S. Patents 5,531,894 and 5,480,561 4,439,323 and 5,492,635 Other Patents Pending 2001 Orenco Systems® Inc.

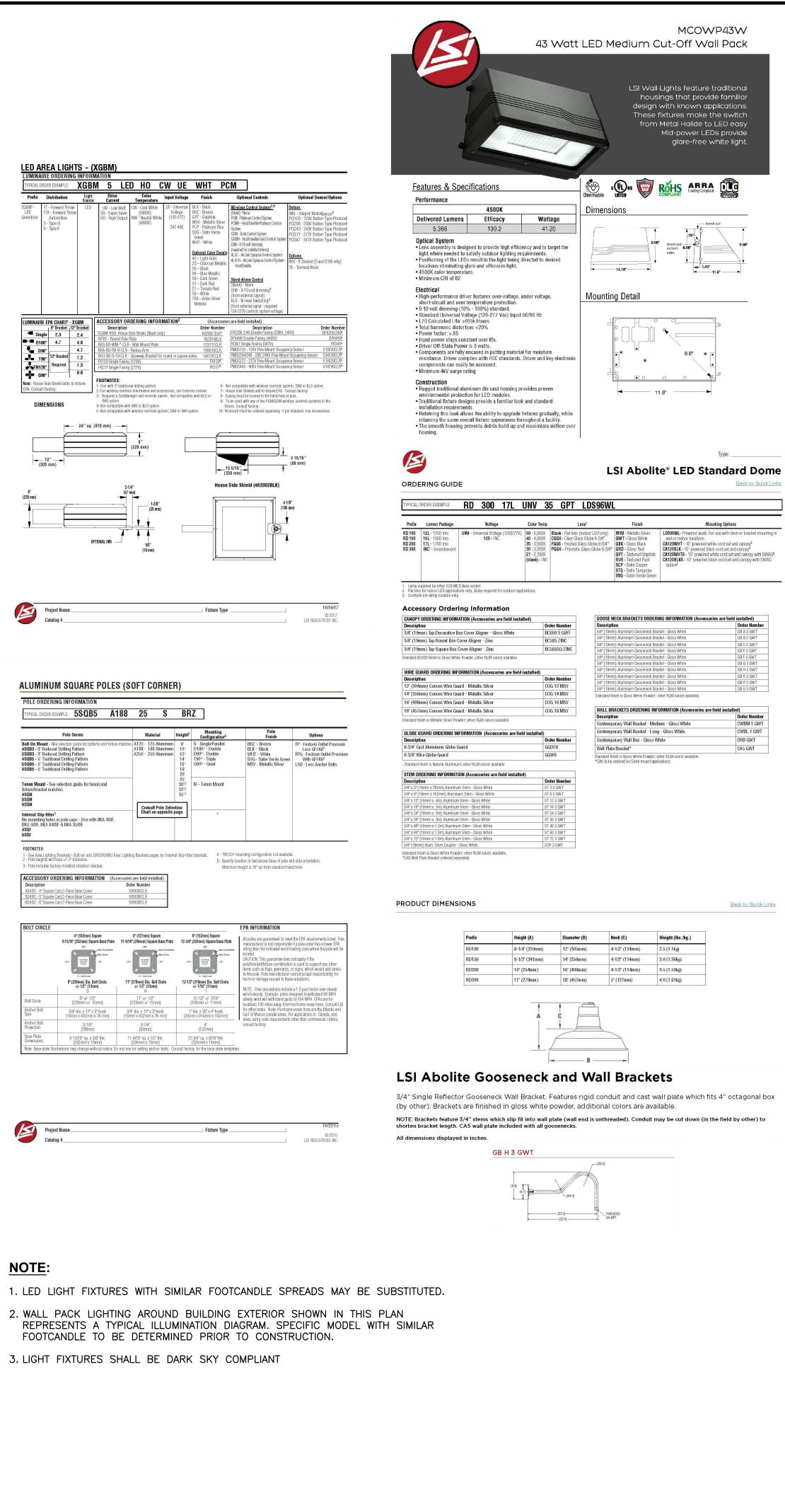
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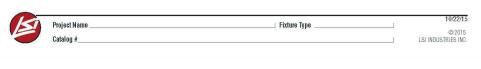
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USE OFFICEDESIGN UNITS PER EMPLOYEEUNIT FLOW RATE (gpd/unit) 15 gpdDESIGN FLOW (gpd) 360 gpd(24 EMPLOYEES)	1. THERE 2. THERE
SEPTIC TANK SIZING WITH NO GARBAGE GRINDER	SYSTEM 500'. 100' C
REQUIRED SIZE: GREATER OF 1,000 GALLONS OR 720 GALLONS (2 × 360 GPD)	3. ALL K SYSTEN
USE: 2,000 GALLON TANK	4. THE S OF THI
LEACHING SYSTEM SIZING TYPE OF SYSTEM: BOTTOMLESS SAND FILTER	>1 MIL 5. STRIPF
SOIL CATEGORY = 6 CATEGORY 1 TECHNOLOGIES LOADING RATE = 2.3 gal/S.F./DAY	6. NO VE
PRETREATMENT DEVICE = ADVANTEX $(AX - 20)$ MIN. LEACHING AREA REQUIRED:	7. SURFA 8. THE P
360 GPD / (2.3 GAL/S.F./DAY) = 156.5 S.F. LEACHING AREA PROVIDED = $32' \times 10' = 320$ S.F.	PVC PI 9. THE L
	ESTABL AND M 11/25,
PUMP - DOSING CALCULATIONS LENGTH OF EACH DISTRIBUTION LINE = 31 LF (5 LINES)	10. NO K SURF
DISTRIBUTION LINE ORFICES = 80 (24" SPACINĠ) DOSING = 0.25 GAL/ORFICE = 20 GALANS PUMP CHAMBER = 24" DIAMETER PUMP VOLUME = PUMP ON/PUMP OFF (10.2") = 20 GAL/CYCLE	 11. ALL INOTER 12. THE AND 13. NO G 14. THE DEFIN DIREC 15. THE 16. THE START 17. NO GOWTS 18. PRIOF DRAW PRIOF 19. CONT MANU
2000 GALLON TWO COMPARTMENT OSI SEPTIC TANK WITH ANTI-FLOATATION COLLAR	

ISITE WASTEWATER TREATMENT SYSTEM NOTES:	
THERE ARE NO PUBLIC SEWERS WITHIN 200' OF THE PARCEL.	
THERE ARE NO KNOWN EXISTING OR PROPOSED PRIVATE WELLS WITHIN 200' OF THE SYSTEM, AND THERE ARE NO KNOWN EXISTING OR PROPOSED PUBLIC WELLS WITHIN 500'. THERE ARE NO KNOWN EXISTING OR PROPOSED NON—POTABLE WELLS WITHIN 00' OF THE OWTS.	
ALL KNOWN WATERCOURSES, WETLANDS, DRAINS AND STORMWATER MANAGEMENT SYSTEMS WITHIN 200' OF THE PROPOSED OWTS ARE SHOWN.	
THE SITE IN NOT WITHIN THE CRITICAL RESOURCE AREA AS DEFINED BY SECTION 6.42 OF THE OWTS RULES AND REGULATIONS. THE NEAREST CRITICAL RESOURCE AREA IS >1 MILE.	
STRIPPING SHALL NOT BE DONE INTO THE WATER TABLE. NO VEHICULAR TRAFFIC IS ALLOWED ON BSF.	
SURFACE RUNOFF TO BE DIVERTED FROM SYSTEM AND BSF. THE PIPING FOR BUILDING SEWER TO BE SOLID SDR 35 PVC PIPE OR SCHEDULE 40 V/C PIPE.	
THE LICENSED INSTALLER MUST FOLLOW ALL R.I.D.E.M. "RULES AND REGULATIONS STABLISHING MINIMUM STANDARDS RELATING TO LOCATION, DESIGN, CONSTRUCTION ND MAINTENANCE OF ONSITE WASTEWATER TREATMENT SYSTEMS, EFFECTIVE DATE 1/25/2018."	
NO KNOWN DRAINS, PROPOSED DRAINS OR UNDERDRAINS DISCHARGING INTO A SURFACE WATER SUPPLY ARE WITHIN 25' OF LEACH FIELD. ALL DISTURBED AREAS ARE TO RECEIVE 4" OF LOAM & SEED, UNLESS OTHERWISE	
NOTED. THE CONTRACTOR MUST ADHERE TO ALL CONSTRUCTION INSPECTION PROCEDURES	
AND REQUIREMENTS OF R.I.D.E.M. AND CROSSMAN ENGINEERING, INC.	
THE SITE IS NOT WITHIN THE WATERSHED OF THE PUBLIC WATER SUPPLY AS DEFINED IN SECTION 6.42, AND DRAINS WITHIN THE VICINITY DO NOT DISCHARGE DIRECTLY OR INDIRECTLY TO A CRITICAL RESOURCE AREA IDENTIFIED IN RULE 6.42. THE A HORIZON SOIL LAYER BELOW BSF SHALL BE REMOVED. THE OWTS INSTALLER SHALL NOTIFY THE OWTS DESIGNER OF THE CONSTRUCTION START DATE AT LEAST THREE (3) WORKING DAYS IN ADVANCE.	
NO OWTS CONSTRUCTION SHALL BEGIN UNTIL AUTHORIZED BY R.I.D.E.M. AND THE OWTS DESIGNER.	
PRIOR TO PURCHASE/ORDER OF PRODUCTS, THE INSTALLER MUST PROVIDE "SHOP DRAWINGS" FOR <u>ALL</u> MATERIALS. APPROVAL MUST BE GRANTED BY THE DESIGNER PRIOR TO CONSTRUCTION.	
CONTRACTOR SHALL PROVIDE A WATER-TIGHT CERTIFICATE FROM THE CONCRETE MANUFACTURER FOR THE SEPTIC TANK AND PUMP CHAMBER.	
PVC LATERAL	
PVC LATERAL	
PVC LATERAL	
NOTE SHIELD AND ORIFICE MUST BE ORIENTED BELOW	
NOTE SHIELD AND ORIFICE MUST BE ORIENTED BELOW LATERAL FOR COLD WEATHER APPLICATION	
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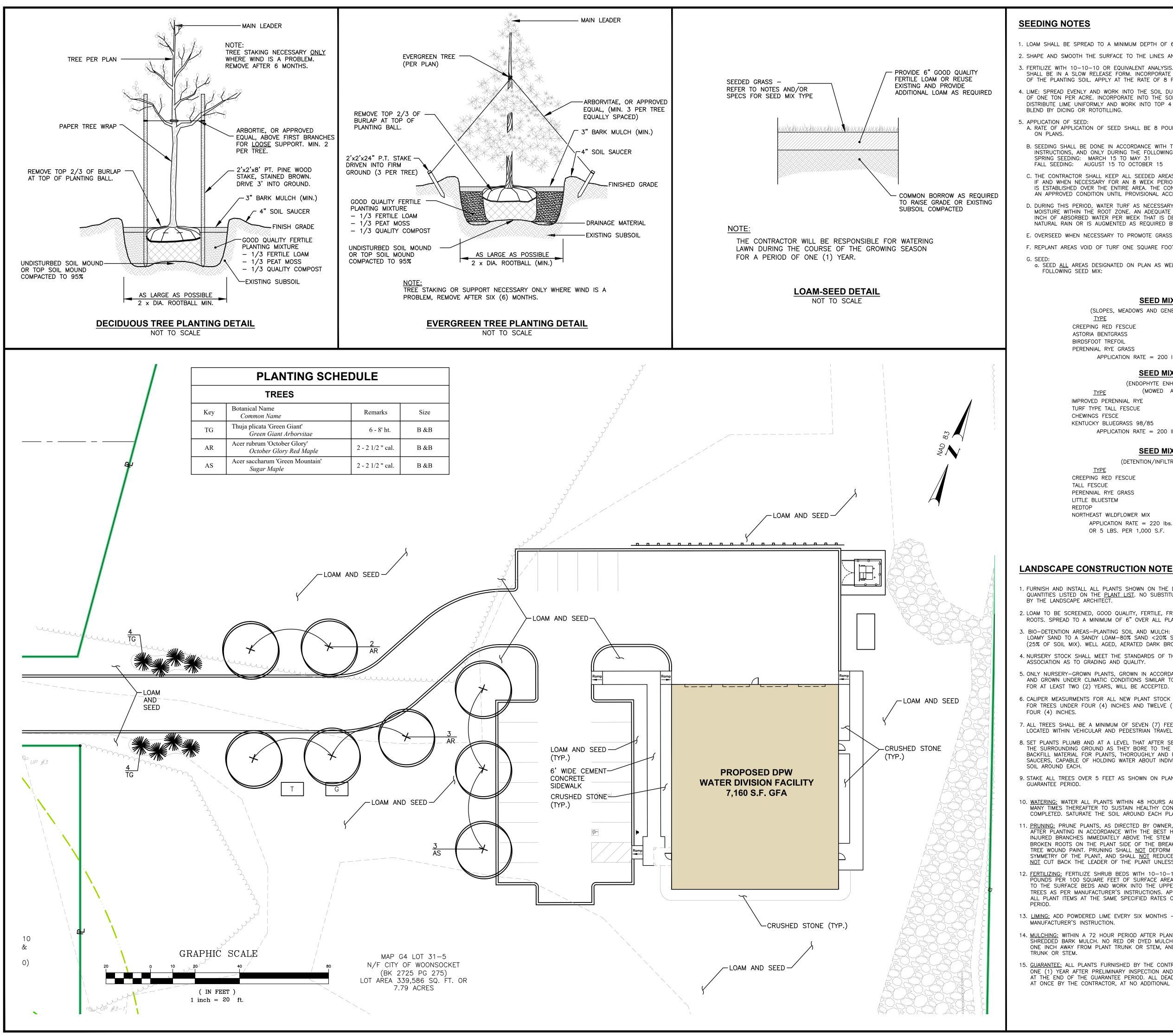
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<u>Rhode Isl</u>		Massac	
151 Centervil Warwick, RI			vealth Avenue pro, MA 02763
Phone (401) 7			3) 695-1700
En	nail: cei@cro	ssmaneng.c	om
THESE DRAW	INGS ARE THE	PROPERTY O	F CROSSMAN
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 Surveying Permitting Landscape Architecture
Crossman Engineering
Rhode IslandMassachusetts151 Centerville Road103 Commonwealth AvenueWarwick, RI 02886North Attleboro, MA 02763Phone (401) 738-5660Phone (508) 695-1700Email: cei@crossmaneng.com
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STEVEN M. CABRAL No. HEGISTERED PROFESSIONAL ENCIMEER MANNA STAT
KEY PLAN
PROJECT TITLE:
WATER DIVISION FACILITY MAP G4, LOT 31-5 ZONING DISTRICT: R-1 VERY LOW DENSITY SINGLE-FAMILY RESIDENTIAL DISTRICT ROY AVENUE WOONSOCKET, RI
PREPARED FOR: CITY OF VOONSOCKET MOONSOCKET, RI
DRAWING TITLE:
LIGHTING PLAN
DATE: SCALE: AUGUST 7, 2023 1"=20'
<i>DWG. NAME:</i> 2747-E01-LIGHT-R4.dwg
REVISIONS
NUMBER REMARKS DATE 1 BUILDING LOCATION 08/28/23
DRAWING NUMBER



SEEDING NOTES

1. LOAM SHALL BE SPREAD TO A MINIMUM DEPTH OF 6" OVER ALL AREAS DESIGNATED ON PLANS. 2. SHAPE AND SMOOTH THE SURFACE TO THE LINES AND GRADES AS SHOWN ON PLANS.

3. FERTILIZE WITH 10-10-10 OR EQUIVALENT ANALYSIS. AT LEAST 40% OF THE FERTILIZER NITROGEN SHALL BE IN A SLOW RELEASE FORM. INCORPORATE THE FERTILIZER INTO THE TOP 3 TO 4 INCHES OF THE PLANTING SOIL. APPLY AT THE RATE OF 8 POUNDS PER 1,000 SQUARE FEET AT SEEDING.

4. LIME: SPREAD EVENLY AND WORK INTO THE SOIL DURING PREPARATION OF SEED BED AT THE RATE OF ONE TON PER ACRE. INCORPORATE INTO THE SOIL BY DICING OR OTHER APPROVED METHOD. DISTRIBUTE LIME UNIFORMLY AND WORK INTO TOP 4 INCHES OF TOP SOIL (MINIMUM) AND UNIFORMLY BLEND BY DICING OR ROTOTILLING.

A. RATE OF APPLICATION OF SEED SHALL BE 8 POUNDS PER 1,000 SQUARE FEET OR AS INDICATED

B. SEEDING SHALL BE DONE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS, AND ONLY DURING THE FOLLOWING DATES: SPRING SEEDING: MARCH 15 TO MAY 31

FALL SEEDING: AUGUST 15 TO OCTOBER 15

C. THE CONTRACTOR SHALL KEEP ALL SEEDED AREAS WATERED AND IN GOOD CONDITION, RESEEDING IF AND WHEN NECESSARY FOR AN 8 WEEK PERIOD OR UNTIL A GOOD, HEALTHY, UNIFORM GROWTH IS ESTABLISHED OVER THE ENTIRE AREA. THE CONTRACTOR SHALL ALSO MAINTAIN THESE AREAS IN AN APPROVED CONDITION UNTIL PROVISIONAL ACCEPTANCE.

D. DURING THIS PERIOD, WATER TURF AS NECESSARY TO MAINTAIN AN ADEQUATE SUPPLY OF MOISTURE WITHIN THE ROOT ZONE. AN ADEQUATE SUPPLY OF MOISTURE IS EQUIVALENT OF ONE INCH OF ABSORBED WATER PER WEEK THAT IS DELIVERED AT WEEKLY INTERVALS IN THE FORM OF NATURAL RAIN OR IS AUGMENTED AS REQUIRED BY PERIODIC WATERING.

E. OVERSEED WHEN NECESSARY TO PROMOTE GRASS GROWTH. F. REPLANT AREAS VOID OF TURF ONE SQUARE FOOT OR LARGER.

a. SEED <u>ALL</u> AREAS DESIGNATED ON PLAN AS WELL AS <u>ALL</u> DISTURBED EXISTING AREAS WITH THE FOLLOWING SEED MIX:

SEED MIX No. 1	
(SLOPES, MEADOWS AND GENERAL RESTORA	TION AREA)
<u>TYPE %</u>	BY WEIGHT
CREEPING RED FESCUE	70%
ASTORIA BENTGRASS	5%
BIRDSFOOT TREFOIL	15%
PERENNIAL RYE GRASS	10%
APPLICATION RATE = 200 lbs. / ACRE	

SEED MIX No. 2 (ENDOPHYTE ENHANCED MIX)

(END	OFFILE EI	NHANCED	/			
TYPE	(MOWED	AREAS)		%	BY	WEIGHT
IMPROVED PERENNIAL RY	Έ				3	0%
TURF TYPE TALL FESCUE	Ξ				3	0%
CHEWINGS FESCE					3	0%
KENTUCKY BLUEGRASS 9	8/85				1	0%
APPLICATION RA	TE = 200	lbs. / /	ACRE			

SEED MIX No. 3

(DETENTION/INFILTRATION AREA	S)		
<u>TYPE</u>	%	BY	WEIGHT
CREEPING RED FESCUE		2	8%
TALL FESCUE		2	4%
PERENNIAL RYE GRASS		1	8%
LITTLE BLUESTEM		1	5%
REDTOP		4	1%
NORTHEAST WILDFLOWER MIX		4	1%
APPLICATION RATE = 220 lbs. / ACRE			
OR 5 LBS. PER 1,000 S.F.			

LANDSCAPE CONSTRUCTION NOTES

1. FURNISH AND INSTALL ALL PLANTS SHOWN ON THE DRAWINGS SPECIFIED HEREIN, AND IN THE QUANTITIES LISTED ON THE PLANT LIST. NO SUBSTITUTIONS WILL BE PERMITTED, UNLESS APPROVED BY THE LANDSCAPE ARCHITECT.

2. LOAM TO BE SCREENED, GOOD QUALITY, FERTILE, FREE OF WEEDS, STICKS, STONES OVER 3/4", AND ROOTS. SPREAD TO A MINIMUM OF 6" OVER ALL PLANTED AREAS.

LOAMY SAND TO A SANDY LOAM-80% SAND <20% SILT, <2% CLAY. WELL AGED GRADED COMPOST (25% OF SOIL MIX). WELL AGED, AERATED DARK BROWN HARD-WOOD MULCH (AGED 6 MONTHS).

4. NURSERY STOCK SHALL MEET THE STANDARDS OF THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION AS TO GRADING AND QUALITY.

5. ONLY NURSERY-GROWN PLANTS, GROWN IN ACCORDANCE WITH ACCEPTED HORTICULTURAL PRACTICES, AND GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO TO THOSE IN THE LOCALITY OF THE PROJECT FOR AT LEAST TWO (2) YEARS, WILL BE ACCEPTED.

6. CALIPER MEASURMENTS FOR ALL NEW PLANT STOCK SHALL BE TAKEN SIX (6) INCHES ABOVE GRADE FOR TREES UNDER FOUR (4) INCHES AND TWELVE (12) INCHES ABOVE GRADE FOR TREES OVER FOUR (4) INCHES.

ALL TREES SHALL BE A MINIMUM OF SEVEN (7) FEET ABOVE FINISHED GRADE WHEN TREES ARE LOCATED WITHIN VEHICULAR AND PEDESTRIAN TRAVEL WAYS.

8. SET PLANTS PLUMB AND AT 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 AND PROPERLY BY FIRMING OR TAMPING. FORM SAUCERS, CAPABLE OF HOLDING WATER ABOUT INDIVIDUAL PLANTS, BY PLACING RIDGES OF PLANTING SOIL AROUND EACH.

9. STAKE ALL TREES OVER 5 FEET AS SHOWN ON PLANS. REMOVE STAKES AT THE END OF THE GUARANTEE PERIOD.

10. WATERING: WATER ALL PLANTS WITHIN 48 HOURS AFTER PLANTING. IF CONDITIONS WARRANT, AND AS MANY TIMES THEREAFTER TO SUSTAIN HEALTHY CONDITIONS UNTIL LANDSCAPE INSTALLATION IS COMPLETED. SATURATE THE SOIL AROUND EACH PLANT THOROUGHLY AT EACH WATERING.

1. PRUNING: PRUNE PLANTS, AS DIRECTED BY OWNER, AT THE PROJECT SITE BEFORE OR IMMEDIATELY AFTER PLANTING IN ACCORDANCE WITH THE BEST HORTICULTURAL PRACTICE. CUT BROKEN, DEAD OR INJURED BRANCHES IMMEDIATELY ABOVE THE STEM COLLAR ON THE TRUNK OR LIMB. PRUNE ALL BROKEN ROOTS ON THE PLANT SIDE OF THE BREAK. PAINT CUTS OVER 3/4" IN DIAMETER WITH TREE WOUND PAINT. PRUNING SHALL <u>NOT</u> DEFORM OR OTHERWISE DESTROY THE TYPICAL SHAPE OR SYMMETRY OF THE PLANT, AND SHALL <u>NOT</u> REDUCE THE HEIGHT BY MORE THAN ONE-THIRD. DO <u>NOT</u> CUT BACK THE LEADER OF THE PLANT UNLESS DIRECTED BY THE LANDSCAPE ARCHITECT.

12. FERTILIZING: FERTILIZE SHRUB BEDS WITH 10–10–10 FERTILIZER BROADCAST AT A RATE OF THREE POUNDS PER 100 SQUARE FEET OF SURFACE AREA BROADCAST. APPLY THE FERTILIZER UNIFORMLY TO THE SURFACE BEDS AND WORK INTO THE UPPER TWO INCHES OF SOIL. FERTILIZE INDIVIDUAL TREES AS PER MANUFACTURER'S 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

13. LIMING: ADD POWDERED LIME EVERY SIX MONTHS - OR SLOW RELEASE GRANULAR LIME-AS PER MANUFACTURER'S INSTRUCTION.

14. MULCHING: WITHIN A 72 HOUR PERIOD AFTER PLANTING, COVER ALL PLANTED AREAS WITH 3" SHREDDED BARK MULCH. NO RED OR DYED MULCH IS TO BE USED. MULCH SHOULD BE PULLED ONE INCH AWAY FROM PLANT TRUNK OR STEM, AND NOT ALLOWED TO REST DIRECTLY AGAINST THE TRUNK OR STEM.

15. GUARANTEE: ALL PLANTS FURNISHED BY THE CONTRACTOR SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER PRELIMINARY INSPECTION AND SHALL BE ALIVE AND IN SATISFACTORY GROWTH AT THE END OF THE GUARANTEE PERIOD. ALL DEAD OR DYING PLANT MATERIAL SHALL BE REPLACED AT ONCE BY THE CONTRACTOR, AT NO ADDITIONAL COST TO THE OWNER.

 Civil Transportation Environmental Site Planning Surveying Permitting Landscape Architect 				
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STEVEN M. CABRAL No. REGISTERED PROFESSIONAL ENEMEER MALAN STATY				
ISSUED FOR BIDDING				
PROJECT TITLE:				
WOONSOCKET DPW WATER DIVISION FACILITY MAP G4, LOT 31-5 ZONING DISTRICT: R-1 VERY LOW DENSITY SINGLE-FAMILY RESIDENTIAL DISTRICT ROY AVENUE WOONSOCKET, RI				
PREPARED FOR:				
CITY OF WOONSOCKET 169 MAIN STREET WOONSOCKET, RI				
DRAWING TITLE:				
LANDSCAPE PLAN				
DATE: SCALE: AUGUST 7, 2023 1"=20'				
<i>DWG. NAME:</i> 2747-L01-LAND-R4.dwg				
REVISIONS				
NUMBER REMARKS DATE 1 BUILDING LOCATION 08/28/2	3			
DRAWING NUMBER				
SHEET: <u>14</u> OF: <u>14</u>				