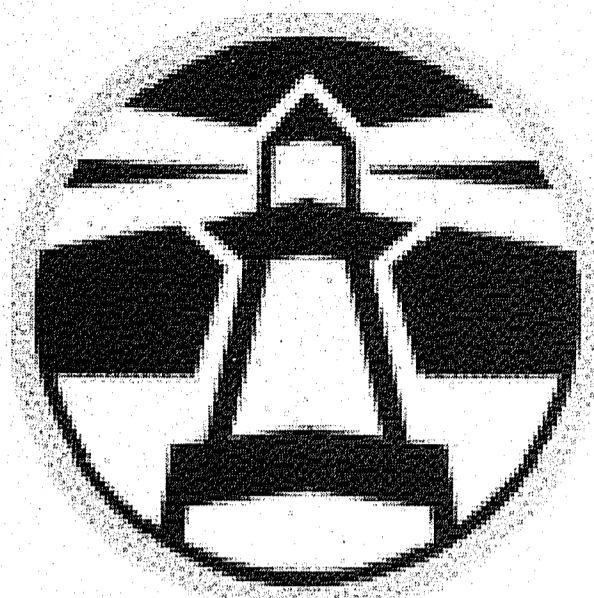


**SITE IMPROVEMENT PLANS FOR A PROPOSED
2,280 SF CREDIT UNION
SERVICING**



**Pawtucket
Credit Union**

**84 OLD TOWER HILL ROAD
WAKEFIELD, RHODE ISLAND
AP 57-2, PORTION OF LOT 68
ZONING DISTRICT: COMMERCIAL HIGHWAY (CH)**

APPROVALS:

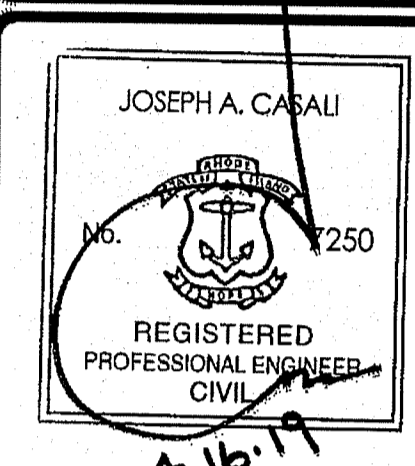
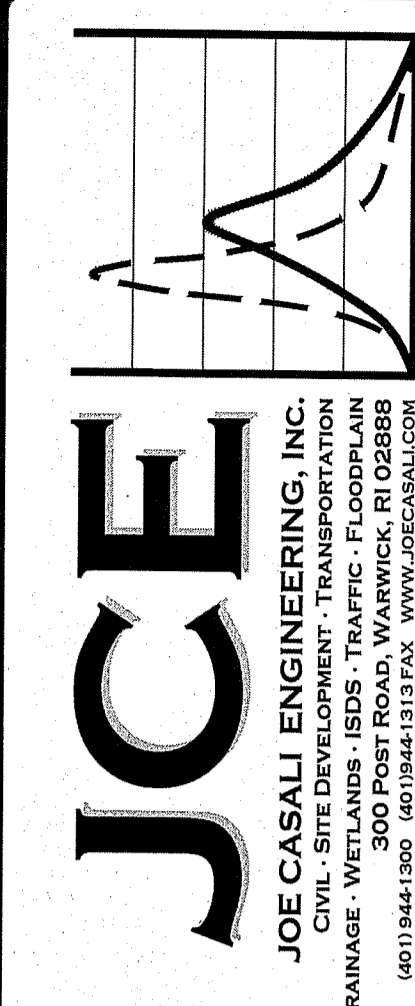
- TOWN OF SOUTH KINGSTOWN PLANNING DEPARTMENT FOR PRE-APPLICATION (JULY 24, 2018)
- TOWN OF SOUTH KINGSTOWN PLANNING DEPARTMENT FOR MASTER PLAN APPROVAL (SEPTEMBER 25, 2018)
- SOUTH KINGSTOWN ZONING BOARD OF REVIEW - SPECIAL USE PERMIT GRANTED (NOVEMBER 28, 2018)

FILINGS:

- RIDOT FOR PHYSICAL ALTERATION PERMIT
- RIDEM OFFICE OF WATER RESOURCES FOR A PRELIMINARY DETERMINATION
- TOWN OF SOUTH KINGSTOWN BUILDING OFFICIAL

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 3 2019 FILE # 19-0023
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Maloney
Environmental Management
APR 17 2019
Office of Water Resources



PROPOSED 2,280 SF COMMERCIAL CREDIT UNION
PAWTUCKET CREDIT UNION
84 OLD TOWER HILL ROAD
WAKEFIELD, RHODE ISLAND
AP 57-2, PORTION OF LOT 68

PROPERTY OWNER
BCPSTOR DEVELOPMENT II, LLC
C/O RICHARD TASCA
1 CUSTOM HOUSE ST., SUITE 4
PROVIDENCE, RI 02903
PHONE: 786-564-6263

APPLICANT
PAWTUCKET CREDIT UNION
1200 CENTRAL AVENUE
PAWTUCKET, RI 02861
401-722-2212

REVISIONS:

NO.	DATE	DESCRIPTION
1	4/4/2019	RIDEM/RIDOT RTC
2	4/16/2019	RIDEM RTC

DESIGNED BY: WML/JR
DRAWN BY: SD/SEP
CHECKED BY: JAC
DATE: JAN. 2019
PROJECT NO: 05-57K

NOT FOR CONSTRUCTION,
UNLESS APPROVED BY
RIDEM & RIDOT

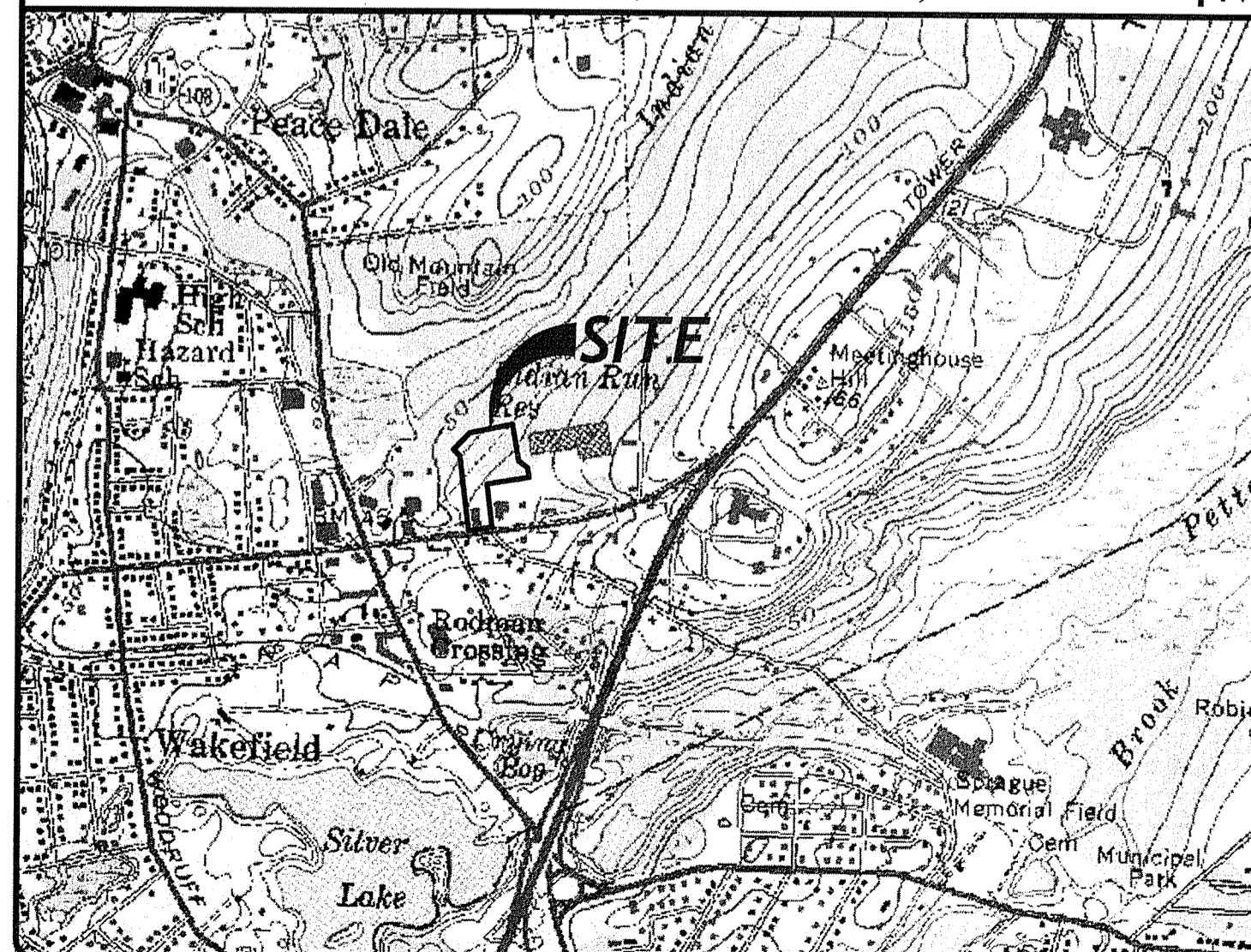
COVER SHEET

SHEET 1 OF 12

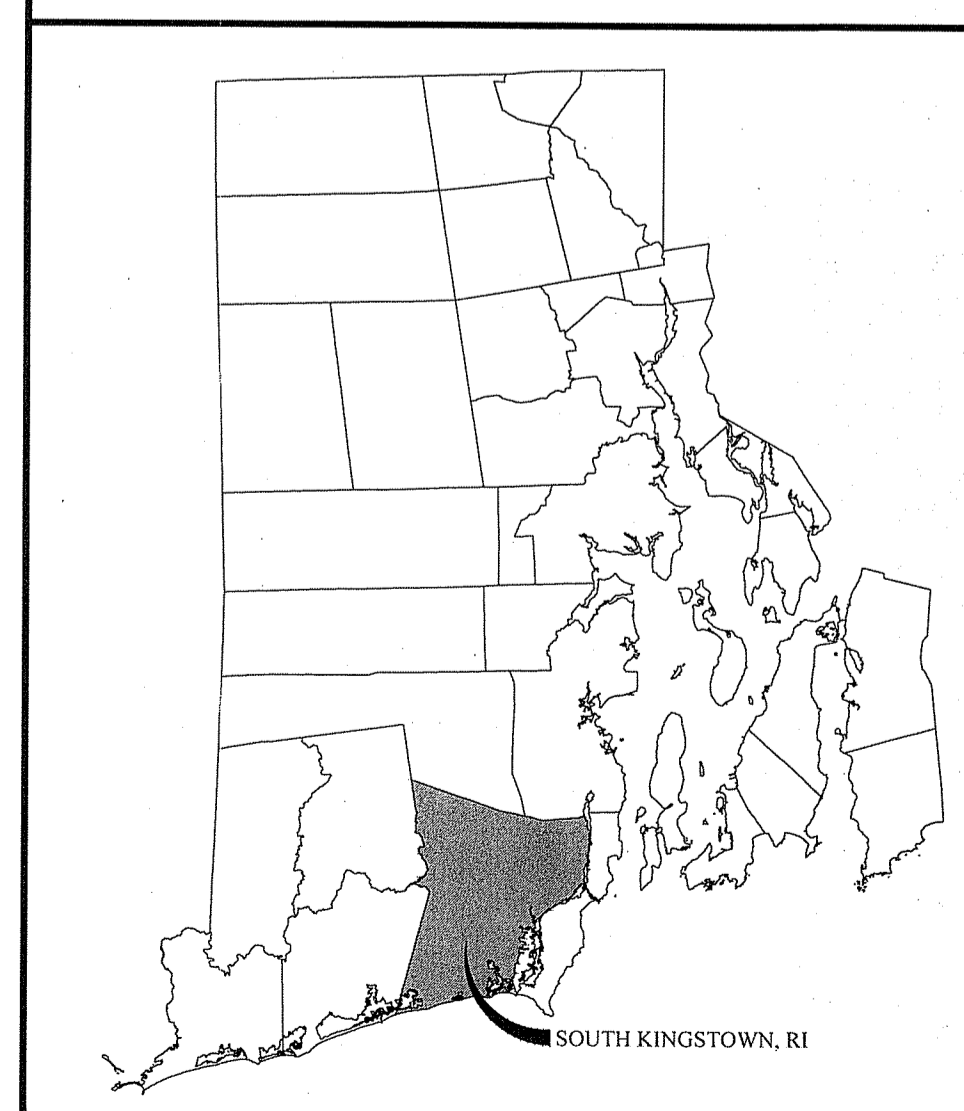
PROJECT TEAM

OWNER:	BCPSTOR DEVELOPMENT II, LLC. C/O RICHARD TASCA 1 CUSTOM HOUSE ST, SUITE 4 PROVIDENCE, RI 02903 PHONE: 786-564-6263	CIVIL ENGINEER:	JOE CASALI ENGINEERING, INC. 300 POST ROAD WARWICK, RI 02888 PHONE: 401-944-1300 FAX: 401-944-1313 JOECASALI.COM
APPLICANT:	PAWTUCKET CREDIT UNION 1200 CENTRAL AVENUE PAWTUCKET, RI 02861 PHONE: 401-722-2212	TRAFFIC ENGINEER:	BETA GROUP 6 BLACKSTONE VALLEY PLACE SUITE 101 LINCOLN, RI 02865 PHONE: 401-333-2382
GENERAL CONTRACTOR:	GRAHAM BUILDERS 341 WASHINGTON HIGHWAY SMITHFIELD, RI 02917 PHONE: 401-949-5500	LAND SURVEYOR:	DIPRETE ENGINEERING TWO STAFFORD COURT CRANSTON, RI 02920 PHONE: 401-943-1000
ARCHITECT:	CASTELLONE ARCHITECTURE, LLC 792 GREAT ROAD LINCOLN, RI 02865 PHONE: (401) 949-5500	LANDSCAPE ARCHITECT:	DIANE C. SOULE & ASSOCIATES, ASLA 422 FARNUM PIKE SMITHFIELD, RI 02917 PHONE: 401-231-0736

LOCUS MAP (NOT TO SCALE)



STATE WIDE MAP



INDEX OF DRAWINGS

SHEET NO.	PLAN
1	COVER SHEET
2	GENERAL NOTES & LEGEND
3	EXISTING CONDITIONS & SITE PREPARATION PLAN
4	SITE PLAN
5	GRADING, DRAINAGE & UTILITY PLAN
6	RIDOT PAP PLAN
7	RI STANDARD DETAILS
8	DETAILS I
9	DETAILS II
10	DETAILS III
11	LANDSCAPE PLAN PREPARED BY DIANE C. SOULE AND ASSOCIATES
12	LANDSCAPE DETAILS PREPARED BY DIANE C. SOULE AND ASSOCIATES

REFERENCE PLAN:
SHEET 1 OF 1 SURVEY PLAN, PREPARED BY
DIPRETE ENGINEERING, DATED APRIL 2018

GENERAL NOTES:

- 1. CLASS I PROPERTY LINE SURVEY AND CLASS III TOPOGRAPHIC SURVEY OF AP 57-2, LOT 68 COMPLETED BY DIPRETE ENGINEERING OF CRANSTON, RI IN APRIL 2016.
2. THIS SITE LIES IN ZONE X (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN), AS SHOWN ON THE FEMA FIRM MAP FOR THE TOWN OF SOUTH KINGSTOWN, RI, COMMUNITY PANEL NO. 44090203J EFFECTIVE DATE OCTOBER 16, 2013.
3. THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND HAVE BEEN PLOTTED FROM THE LATEST AVAILABLE INFORMATION. THE UTILITY LOCATIONS ARE APPROXIMATE AND MAY NOT BE ALL INCLUSIVE. THE CONTRACTOR SHALL CHECK AND VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, BOTH OVERHEAD AND UNDERGROUND, AND "DIG-SAFE" MUST BE NOTIFIED PRIOR TO COMMENCING ANY CONSTRUCTION OPERATIONS. RESTORATION AND REPAIR OF DAMAGE TO EXISTING UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER. NO EXCAVATION SHALL COMMENCE UNTIL ALL INVOLVED UTILITY COMPANIES AND/OR CITY WHOSE FACILITIES MIGHT BE AFFECTED BY ANY WORK TO BE PERFORMED BY THE CONTRACTOR ARE NOTIFIED AT LEAST 72 HOURS IN ADVANCE.
4. SOILS ON THE SITE CONSIST OF URBAN LAND, WHICH IS COMPRISED PRIMARILY OF HUMAN TRANSPORTED MATERIAL (Ur) AND STISSING SILT LOAM, 0 TO 3 PERCENT SLOPES (se). Se SOILS GENERALLY ARE FOUND ON GLACIAL UPLAND HILLS AND ARE POORLY DRAINED.
5. TEST PIT EVALUATIONS WERE CONDUCTED BY JOE CASALI ENGINEERING, INC. IN NOVEMBER 2018. TEST PIT DATA, INCLUDING SEASONAL HIGH GROUND WATER ELEVATIONS ARE PROVIDED ON THE DETAIL SHEET AND ARE AVAILABLE TO THE CONTRACTOR UPON REQUEST.
6. TELEPHONE, ELECTRIC, SEWER, GAS, AND WATER SERVICES ARE ALL AVAILABLE FROM WITHIN OLD TOWER HILL ROAD.
7. THERE ARE NO CEMETERIES PRESENT ON THE SITE.
8. THERE ARE NO UNIQUE HISTORIC FEATURES PRESENT ON THE SITE.
9. THERE ARE NO KNOWN EASEMENTS WITHIN OR ADJACENT TO THE SUBJECT PROPERTIES. THERE ARE NO KNOWN EXISTING PUBLIC RECREATIONAL OR CULTURAL RESOURCES LOCATED WITHIN THE SUBJECT SITE.

SITE NOTES:

- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND LEGALLY DISPOSING (R&D) OF ALL MATERIALS INDICATED ON THE PLANS.
2. ACCESSIBLE ROUTES, PARKING SPACES, RAMPS, SIDEWALKS, AND WALKWAYS SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE FEDERAL AMERICAN WITH DISABILITIES ACT AND WITH ALL APPLICABLE STATE AND LOCAL LAWS AND REGULATIONS, WHICHEVER IS MORE STRINGENT.
3. STOCKPILES OF EARTH MATERIALS SHALL NOT BE LOCATED ADJACENT TO DRAINAGE STRUCTURES.
4. ALL DISTURBED AREAS OUTSIDE OF THE PAVED AREAS WILL RECEIVE A MINIMUM OF 6" OF LOAM AND SEED.
5. THE LAYOUT SHOWN REPRESENTS A GRAPHICAL DESIGN, AND PRIOR TO THE CONSTRUCTION, THE CONTRACTOR SHALL ENGAGE A PROFESSIONAL LAND SURVEYOR (PLS) REGISTERED IN THE STATE OF RHODE ISLAND TO SET AND VERIFY ALL LINES AND GRADES. ALL EXISTING UTILITY LOCATIONS AND ELEVATIONS ARE TO BE CONFIRMED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY ITEMS FOUND WHICH DO NOT MATCH THE PLANS MUST BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO CONSTRUCTION FOR REVIEW. NO WORK SHALL PROCEED UNTIL AUTHORIZED BY THE ENGINEER.
6. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SURVEY LAYOUT SERVICES FOR THE WORK AND SHALL SUBMIT "AS-BUILT" DRAWINGS OF ALL WORK, WHICH SHALL BE STAMPED AND CERTIFIED BY A RHODE ISLAND REGISTERED PROFESSIONAL LAND SURVEYOR.
7. ANY ITEM OF WORK NOT SPECIFICALLY INDICATED ON THE PLANS BUT IS REQUIRED FOR THE COMPLETE CONSTRUCTION OF THE PROJECT WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND INCLUDED IN THE CONTRACT BID PRICE. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING SITE CONDITIONS.
8. REFER TO ARCHITECTURAL PLANS, STRUCTURAL PLANS, PLUMBING PLANS, FIRE PROTECTION PLANS, AND ELECTRICAL PLANS, FOR ACTUAL SIZE OF THE PROPOSED BUILDING AND WORK WITHIN 5 FEET OF THE PROPOSED BUILDING.
9. WHERE NECESSARY TO REMOVE CURBS, CATCH BASINS OR DRAINS TO COMPLETE WORK, THE CONTRACTOR SHALL REPLACE SUCH ITEMS TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER.
10. ANY EXISTING PIPE OR UTILITY DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR AT NO COST TO THE OWNER.
11. THE CONTRACTOR SHALL RESTORE TO ITS ORIGINAL CONDITION OR REPLACE TREES, SHRUBS, FENCES, SIGNS, GUARDRAILS, DRIVEWAYS, SIDEWALKS AND ANY OTHER OBJECT AFFECTED BY THIS OPERATION, UNLESS OTHERWISE NOTED ON THE SITE PLANS.
12. THE TOPS OF ALL VALVE BOXES AND CURB BOXES SHALL BE FLUSH WITH GROUND OR PAVEMENT SURFACE LEVEL AND PLUMB, UNLESS OTHERWISE DIRECTED.
13. ROADWAYS SHALL BE LEFT PASSABLE AT ALL TIMES. CLOSURE OF ROADWAY IS NOT PERMITTED.
14. WATER SERVICE SHALL BE MAINTAINED AT ALL TIMES.
15. ALL LEDGE TO BE REMOVED BY MECHANICAL MEANS.
16. ALL CONSTRUCTION WORK SHALL BE PERFORMED IN THE DRY. THE CONTRACTOR SHALL PROVIDE, OPERATE AND MAINTAIN ALL PUMPS, DRAINS, WET POINTS, SCREENS, OR OTHER FACILITIES NECESSARY TO CONTROL, COLLECT AND DISPOSE OF ALL SURFACE AND SUBSURFACE WATER ENCOUNTERED IN THE PERFORMANCE OF THE WORK.
17. ALL SITE WORK, INCLUDING BUT NOT LIMITED TO, BITUMINOUS PAVEMENT, ROADWAY CONSTRUCTION, AGGREGATE MATERIALS, DRAINAGE STRUCTURES, CURBING, SIDEWALK, LANDSCAPING, SAW CUTTING, ETC. SHALL CONFORM TO THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION, AMENDED DECEMBER 2010 (WITH LATEST ADDENDA) AND THE RIDOT STANDARD DETAILS, 1998 EDITION (WITH LATEST ADDENDA).

MAINTENANCE AND PROTECTION OF TRAFFIC NOTES:

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE AND PROTECTION OF PEDESTRIAN AND VEHICULAR TRAFFIC INCLUDING POLICE PROTECTION. ALL TEMPORARY AND VEHICULAR SIGNS, BARRICADES AND LANE CLOSURES SHALL BE IN CONFORMANCE WITH THE LATEST REVISIONS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2009 EDITION.
2. TEMPORARY CONSTRUCTION SIGNS AND ALL APPLICABLE TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF WORK IN ANY AREA OPEN TO TRAFFIC.
3. THE PRIVATE VEHICLES OF CONSTRUCTION WORKERS SHALL NOT BE PARKED IN THE STATE OR CITY RIGHT-OF-WAY.
4. ALL MAINTENANCE AND PROTECTION OF TRAFFIC CONTROL SETUPS, SIGNS CHANNELING DEVICES, ETC. SHALL BE IN ACCORDANCE WITH THE LATEST REVISIONS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 2009 EDITION.
5. SIGN MOUNTINGS SHALL BE IN ACCORDANCE WITH THE RIDOT SPECIFICATIONS FOR TEMPORARY CONSTRUCTION SIGNS.

SEDIMENTATION CONTROL PROGRAM:

- 1. EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT ANY UNSUITABLE MATERIAL FROM ENTERING THE STORMWATER MANAGEMENT AREAS. THESE AREAS CANNOT BE USED AS SEDIMENT CONTROL DEVICES.
2. ALL DISTURBED AREAS SUBJECT TO EROSION TENDENCIES WHETHER THEY ARE NEWLY FILLED OR EXCAVATED, SHALL RECEIVE SUITABLE SLOPE PROTECTION.
3. ALL UPSLOPED AREAS ARE TO BE STABILIZED PRIOR TO CONNECTING TO THE STORMWATER FACILITIES.
4. DURING CONSTRUCTION, THE CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF DURING STORMS AND PERIODS OF RAINFALL.
5. SEDIMENTATION CONTROL DEVICES SHALL BE INSPECTED PERIODICALLY AND AFTER PERIODS OF RAINFALL. SUCH DEVICES SHALL BE REPAIRED OR REPLACED AS NEEDED.
6. REFERENCE THE "RHODE ISLAND EROSION AND SEDIMENT CONTROL HANDBOOK" PREPARED BY THE U.S. DEPT. OF AGRICULTURE, SOIL CONSERVATION SERVICE 1989, AS A GUIDE (REVISED 2014).

ORDER OF PROCEDURE:

- 1. SEDIMENT CONTROL DEVICES SHALL SET IN PLACE PRIOR TO THE START OF ANY CONSTRUCTION.
2. ALL EROSION AND SEDIMENTATION CONTROL STRUCTURES SHALL BE PERIODICALLY CLEANED AND MAINTAINED DURING THE CONSTRUCTION.
3. IF WORK PROGRESS IS INTERRUPTED AT ANY TIME, REFERENCE EROSION & SEDIMENTATION PROGRAMS FOR TEMPORARY CONTROL.
4. SPECIFIED PLANTINGS ARE TO TAKE PLACE IN EARLY SPRING (APRIL 1 THRU MAY 30) OR EARLY FALL (SEPTEMBER 1 THRU 30) AND ARE TO BE MAINTAINED FOR A PERIOD OF ONE GROWING SEASON AND SHALL BE REPLACED IF NECESSARY.

DRAINAGE SYSTEM NOTES:

- 1. THE PROPOSED DRAINAGE LINES SHALL BE ADS N-12 HDPE PIPE OR AN APPROVED EQUAL UNLESS OTHERWISE NOTED ON THE SITE PLANS.
2. ALL RIM ELEVATIONS SHOWN ARE APPROXIMATE AND ARE TO BE SET FLUSH WITH FINAL GRADES.

SOIL EROSION AND SEDIMENTATION CONTROL NOTES

- 1. THE COMPOST SOCK LINE ILLUSTRATED ON THESE PLANS SHALL SERVE AS THE STRICT LIMIT OF DISTURBANCE FOR THE PROJECT WITHIN OR ADJACENT TO REGULATED FRESHWATER WETLAND AREAS.
2. THE LIMITS OF CLEARING, GRADING, AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE PROPOSED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE OF THESE LIMITS, AS DEPICTED ON THE PLAN SHALL BE TOTALLY UNDISTURBED, TO REMAIN IN NATURAL CONDITION.
1. ALL CATCH BASINS SHALL BE PROTECTED WITH SILT SACK SEDIMENT TRAPS DURING CONSTRUCTION ACTIVITIES. ALL PROPOSED STORM WATER DISCHARGE AREAS SHALL BE LINED WITH A RIPRAP SPLASH PAD AND PROTECTED WITH STAKED COMPOST SOCK OUTLET PROTECTION. OUTLET PROTECTION (COMPOST SOCK) SHALL ALSO BE INSTALLED AT ALL EXISTING STORMWATER DISCHARGE LOCATIONS WHERE DISTRIBUTING PIPES, CATCH BASINS, AND MANHOLES ARE TO BE CLEANED AND FLUSHED.
4. ALL DISTURBED SLOPES EITHER NEWLY CREATED OR CURRENTLY EXPOSED SHALL BE SEED, PROTECTED AND MAINTAINED BY THE CONTRACTOR. THE CONTRACTOR SHALL REGULARLY CHECK ALL SEEDING AREAS TO ENSURE THAT A GOOD STAND IS MAINTAINED.
5. ALL COMPOST SOCKS, TEMPORARY TREATMENT (HAY, STRAW, ETC.) AND TEMPORARY EROSION PROTECTION SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.
6. STOCKPILES OF TOPSOIL SHALL NOT BE LOCATED NEAR WATERWAYS. THEY SHALL HAVE SIDE SLOPES OF NO GREATER THAN 2:1 AND SHALL BE TEMPORARILY SEEDING AND/OR STABILIZED PER CONTRACT SPECIFICATIONS.
7. THE COMPOST SOCK SHALL BE CHECKED BY THE CONTRACTOR ON A WEEKLY BASIS AND AFTER EACH STORM FOR UNDERMINING OR DETERIORATION. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY COMPOST SOCK AS NEEDED. THE CONTRACTOR SHALL CLEAN THE ACCUMULATED SEDIMENT IF HALF OF THE ORIGINAL HEIGHT OF THE COMPOST SOCK BECOMES FILLED WITH SEDIMENTS.
8. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL SOIL EROSION AND SEDIMENT CONTROLS ON THE PROJECT SITE FOR THE ENTIRE DURATION OF THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL FOLLOW THE DIRECTION OF THE RESIDENT ENGINEER WITH REGARD TO INSTALLATION, MAINTENANCE, AND REPAIR OF ALL SOIL EROSION AND SEDIMENTATION CONTROLS ON THE PROJECT SITE. TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROLS (COMPOST SOCK, SILT FENCE, ETC.) SHALL BE MAINTAINED UNTIL ALL EXPOSED SOILS ARE SATISFACTORILY STABILIZED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND/OR RESEEDING ALL AREAS THAT DO NOT DEVELOP WITHIN ONE YEAR FROM THE COMPLETION OF CONSTRUCTION.
9. ALL REFERENCED SOIL EROSION AND SEDIMENTATION CONTROLS INCLUDING MATERIALS USED, APPLICATION RATES AND THE INSTALLATION PROCEDURES SHALL BE PERFORMED PER THE "RHODE ISLAND EROSION AND SEDIMENTATION HANDBOOK", DATED 1993 AMENDED 2014.

MISCELLANEOUS UTILITY NOTES:

- 1. PRIOR TO CONSTRUCTION ALL POTENTIAL UTILITY/DRAINAGE CONFLICTS MUST BE IDENTIFIED BY THE CONTRACTOR. ANY MODIFICATIONS TO THE PROPOSED UTILITIES TO AVOID CONFLICTS MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR SHALL AT ALL TIMES PROVIDE A SUFFICIENT NUMBER OF WORKMEN AND GUARDS AS MAY BE NECESSARY TO PROPERLY SAFEGUARD THE PUBLIC FROM THEIR OPERATIONS.
3. THE CONTRACTOR SHALL TAKE PRECAUTIONS AGAINST DAMAGING OF PAVING, SIDEWALKS, UTILITIES, OR PRIVATE PROPERTIES AND SHALL PROMPTLY REPAIR AT HIS OWN EXPENSE ANY DAMAGE TO SUCH PAVING, SIDEWALKS, UTILITIES, OR PRIVATE PROPERTIES TO THE SATISFACTION OF THE OWNER OR TOWN.
4. EXISTING UTILITY FRAMES AND COVERS FOR SANITARY SEWER, WATER, GAS, STORM DRAINAGE AND OTHER UTILITIES SHALL BE ADJUSTED TO GRADE AS REQUIRED IN NEW PAVING AND PAVEMENT OVERLAY AREAS.
5. ALL SEWER CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE TOWN OF SOUTH KINGSTOWN PUBLIC WORKS REGULATIONS.
6. ALL NEW SEWER PIPES AND MANHOLES SHALL BE CLEANED AND TESTED PRIOR TO ACCEPTANCE. GRAVITY SEWER PIPES SHALL BE REQUIRED TO PASS BOTH LOW PRESSURE AIR AND DEFLECTION (IE, MANDREL) TESTING. LOW PRESSURE SEWER PIPING SHALL BE REQUIRED TO PASS A LOW PRESSURE (IE, HYDROSTATIC) TEST.
7. A BACKFLOW PREVENTION DEVICE MUST BE INSTALLED AT EACH SEWER SERVICE BUILDING CONNECTION THAT IS BELOW THE RIM ELEVATION OF THE NEAREST SEWER MANHOLE, AS REQUIRED BY THE INTERNATIONAL PLUMBING CODE AND THE TOWN OF SOUTH KINGSTOWN.
8. APPLICANT IS REQUIRED TO PROVIDE TWO SETS OF FINAL AS-BUILT PLANS TO SOUTH KINGSTOWN PUBLIC WORKS UPON COMPLETION OF CONSTRUCTION, PRIOR TO FINAL ACCEPTANCE. AS-BUILT PLANS SHALL INCLUDE FIELD MEASUREMENTS OF ALL INSTALLED PIPE AND APPURTENANCES, INCLUDING LENGTH, SLOPE, MANHOLE RIMS AND INVERTS, AS WELL AS SWING TIES/MEASUREMENTS TO ALL MANHOLES, SEWER STUBS, AND/OR LATERAL SERVICE CONNECTIONS.
9. INSPECTION OF ALL SEWER CONSTRUCTION SHALL BE PERFORMED BY SOUTH KINGSTOWN PUBLIC WORKS. APPLICANT SHALL PROVIDE SCHEDULE FOR CONSTRUCTION AS SOON AS POSSIBLE TO ALLOW FOR DEVELOPMENT OF INSPECTION FEE. TO BE PAID BY APPLICANT DIRECTLY TO TOWN OF SOUTH KINGSTOWN. UPON PAYMENT OF FEE, COMMENCEMENT OF CONSTRUCTION INSPECTION REQUIRES MINIMUM NOTIFICATION OF 48-HOURS.
10. APPLICANT IS RESPONSIBLE FOR SECURING ALL REQUIRED PERMITS FROM LOCAL, STATE, AND/OR FEDERAL AGENCIES WITH REGULATORY JURISDICTION OVER THE PROPOSED WORK. COPIES OF ALL PERMITS SHALL BE PROVIDED TO TOWN OF SOUTH KINGSTOWN PRIOR TO CONSTRUCTION. ALL SEWER CONSTRUCTION SHALL BE PERFORMED BY A DRAIN LAYER LICENSED IN THE STATE OF RHODE ISLAND AND THE TOWN OF SOUTH KINGSTOWN.
11. NO FLOW WILL BE ACCEPTED UNTIL A COMPLETION CERTIFICATE IS ISSUED.
12. THE CONTRACTOR SHALL CONFINE HIS CONSTRUCTION OPERATIONS AND ACTIVITIES TO WITHIN THE STREET LINES, EASEMENT AND/OR RIGHT-OF-WAY, AS SHOWN ON THE DRAWINGS.

- 13. ALL CONSTRUCTION MATERIALS, AS WELL AS ALL MATERIAL SHOP DRAWINGS AND MANUFACTURERS DATA SHEETS SHALL BE REVIEWED AND APPROVED BY THE DESIGN ENGINEER, SOUTH KINGSTOWN PUBLIC WORKS, OR ITS REPRESENTATIVE PRIOR TO FABRICATION AND INSTALLATION, AND SUBMITTED TO THE SOUTH KINGSTOWN PUBLIC WORKS AND TOWN ENGINEER PRIOR TO CONSTRUCTION FOR THEIR RECORDS.
14. PRIOR TO CONSTRUCTION OF THE RELOCATION OF ALL WATER MAINS, THE CONTRACTOR SHALL COORDINATE WITH SOUTH KINGSTOWN PUBLIC WORKS FOR INSPECTION AND CHLORINATION OF NEW PIPING, FITTINGS AND VALVES.

LOADING & SEEDING

SEEDING ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH SECTION L.02 SEEDING OF THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION, 2010 EDITION (WITH LATEST ADDENDA), AND SHALL ALSO CONFORM TO THE FOLLOWING:

- 1. AFTER ROUGH GRADING IS COMPLETED, ALL DISTURBED AREAS AND AREAS LABELED AS "LOAM AND SEED" ARE TO BE BROUGHT TO AN ELEVATION OF 6" BELOW THE PROPOSED FINISHED GRADE. SCARIFY THE SUBGRADE TO A DEPTH OF 12" WITH THE TEETH OF A BACKHOE OR A POWER RAKE TO RESULT IN AN UNCOMPACTED SUBSOIL. 6" OF GOOD QUALITY TOPSOIL IS TO BE APPLIED AND RAKED TO FINISHED GRADE.
2. THE TOPSOIL IS TO BE GOOD QUALITY LOAM, FERTILE AND FREE OF WEEDS, STICKS AND STONES OVER 3/4" IN SIZE AND OTHERWISE COMPLYING WITH SECTION M.18.01 OF THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION, 2010 EDITION (WITH LATEST ADDENDA).
3. PRIOR TO SEEDING OR SODDING, FERTILIZE WITH 10-10-10 OR EQUIVALENT ANALYSIS. AT LEAST 40% OF THE FERTILIZER NITROGEN SHALL BE IN SLOW RELEASE FORM. INCORPORATE THE FERTILIZER INTO THE TOP 1-2" OF THE PLANTING SOIL. APPLY AT A RATE OF 8 LBS. PER 1000 SQUARE FEET.
4. APPLY LIME AT A RATE OF ONE TON PER ACRE AND UNIFORMLY INCORPORATE INTO THE TOP 1-2" OF TOPSOIL.
5. SEEDING AFTER THE SEED BED IS PREPARED, SEED IS TO BE BROADCAST EVENLY OVER THE SURFACE AND WORKED INTO THE TOP 1" OF SOIL. SEED SHALL BE APPROVED URI #2 OR APPROVED EQUAL. APPLY AT A RATE OF 4-5 LBS. PER 1000 SQUARE FEET OR AS OTHERWISE DIRECTED BY THE MANUFACTURER.

URI #2 IMPROVED SEED MIX, % BY WEIGHT:

- 40% CREEPING RED FESCUE
20% IMPROVED PERENNIAL RYEGRASS
20% IMPROVED KENTUCKY BLUEGRASS
20% KENTUCKY BLUEGRASS

RECOMMENDED SEEDING DATES ARE MARCH 15 TO JUNE 15 AND SEPTEMBER 15 TO NOVEMBER 15. AT THE CONTRACTORS DISCRETION, SEED MAY BE APPLIED BY HYDROSEEDING RATHER THAN THE METHOD DESCRIBED ABOVE.

BMP MAINTENANCE SCHEDULE:

- 1. ALL MAINTENANCE (INCLUDING CLEANING) REQUIRED DURING THE CONSTRUCTION PHASE OF THE PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL INCLUDE:
A. MEASURES NEEDED TO ENSURE THE PROPER OPERATION OF THE STORMWATER RUNOFF (DRAINAGE) AND WATER QUALITY CONTROL SYSTEMS TO INCLUDE INSPECTION, CLEANING AND REPAIRS ALL PIPES, INTAKE AND DISCHARGE STRUCTURES, CATCH BASIN SUMPS, AND MANHOLES.
B. INSPECTION OF ALL SLOPES, BERMS, AND OTHER CONTROL STRUCTURES FOR STRUCTURAL INTEGRITY/STABILITY AND EVIDENCE OF SOIL EROSION PROCESSES, AND MAINTENANCE OF THESE STRUCTURES IF NECESSARY. 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.
2. UPON COMPLETION OF THE PROJECT CONSTRUCTION, AND PRIOR TO VACATING THE SITE, THE CONTRACTOR SHALL CONDUCT A FINAL INSPECTION AND CLEANING OF THE DRAINAGE SYSTEM AND ALL ASSOCIATED STRUCTURES.
3. ALL INSTALLATION, CLEANING, AND MAINTENANCE OF THE STORMWATER DRAINAGE SYSTEM SHALL FOLLOW AT LEAST THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION MINIMUM STANDARDS, SECTION 212 AND SECTION 708. WHERE APPROPRIATE, PROCEDURES REGARDING THE DRAINAGE INSTALLATION, CLEANING, INSPECTION, AND MAINTENANCE OF THE STORMWATER DRAINAGE SYSTEM SHALL BE FOLLOWED AS OUTLINED IN THE "RHODE ISLAND STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL" (RIDEM/RICRMC, AMENDED 2015).
4. AFTER CONSTRUCTION, STORMWATER BMPS SHALL BE INSPECTED AND MAINTAINED BY THE OWNER AS FOLLOWS:

CATCH BASIN

- INSPECTIONS SHALL BE PERFORMED A MINIMUM OF 2 TIMES PER YEAR (SPRING/FALL). UNITS SHALL BE CLEANED WHENEVER THE DEPTH OF SEDIMENT IS GREATER THAN OR EQUAL TO 2-FEET (LESS THAN 2-FEET FROM THE BOTTOM OF PIPE). ALL REMOVED SEDIMENT SHALL BE TESTED TO DETERMINE POLLUTANT CONTENT AND SHALL BE REMOVED IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.
• THE INLET GRATE SHALL NOT BE WELDED TO THE FRAME SO THAT THE SUMP CAN BE EASILY INSPECTED AND MAINTAINED.

ROOF DRAIN LEADERS

- PERFORM ROUTINE ROOF INSPECTIONS QUARTERLY.
• KEEP ROOFS CLEAN AND FREE OF DEBRIS.
• KEEP ROOF DRAINAGE SYSTEMS CLEAR.

UNDERGROUND INFILTRATION SYSTEM

- INFILTRATION SYSTEMS SHALL BE INSPECTED ON A BI-ANNUAL BASIS TO ENSURE PROPER FUNCTIONS. INSPECTION PORTS SHALL BE USED TO VERIFY THAT THE SYSTEMS ARE DRAINING WITHIN 72-HOURS. IF THE SYSTEM FAILS TO DRAIN WITHIN 72-HOURS, THE SYSTEM SHALL BE CLEANED OR REPLACED AS NECESSARY.
• THE INFILTRATION SYSTEM SHALL BE INSPECTED BI-ANNUALLY FOR SEDIMENT ACCUMULATION. IF THE SYSTEM HAS ACCUMULATED 3 INCHES OF SEDIMENT, THE SEDIMENT SHALL BE REMOVED BY FLUSHING FROM THE SYSTEM WITH HIGH PRESSURE JETS AND VACUUMING THE SEDIMENT AND DEBRIS THROUGH THE ACCESS PORTS. ALL SEDIMENT REMOVED SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL STATE AND FEDERAL REGULATIONS. KEEP ROOFS CLEAN AND FREE OF DEBRIS.

PRE-TREATMENT SEDIMENT FOREBAYS(S)

- AFTER CONSTRUCTION, THE SEDIMENT FOREBAY SHALL BE INSPECTED AND CLEANED WHEN SEDIMENT BUILD UP IS IN EXCESS OF 6" OR 25% OF THE SEDIMENT STORAGE VOLUME.

SAND FILTER SYSTEM:

- DURING THE SIX MONTHS IMMEDIATELY AFTER CONSTRUCTION, THE SAND FILTER SHALL BE INSPECTED AFTER THE FIRST TWO RAINFALL EVENTS OF AT LEAST 1.0 INCH TO ENSURE THE SYSTEM IS FUNCTIONING PROPERLY. THEREAFTER INSPECTIONS SHALL BE CONDUCTED ON AN ANNUAL BASIS AND AFTER STORM EVENTS GREATER THAN OR EQUAL TO 2 INCHES.
• SILT AND SEDIMENT SHALL BE REMOVED FROM THE FILTER BED WHEN THE ACCUMULATION EXCEEDS ONE INCH. WHEN THE FILTERING CAPACITY OF THE SAND FILTER DIMINISHES SUBSTANTIALLY (I.E. WHEN WATER PONDS ON THE SURFACE OF THE FILTER BED FOR MORE THAN 48 HOURS), THE TOP FEW INCHES OF DISCOLORED IN AN ACCEPTANCE MANNER AT AN APPROVED AND PERMITTED LOCATION.

INFILTRATION SYSTEM:

- DURING THE SIX MONTHS IMMEDIATELY AFTER CONSTRUCTION, THE INFILTRATION BASIN SHALL BE INSPECTED AFTER THE FIRST RAINFALL EVENTS OF AT LEAST 1.0 INCH TO ENSURE THE SYSTEM IS FUNCTIONING PROPERLY. THEREAFTER INSPECTIONS SHALL BE CONDUCTED ON AN ANNUAL BASIS AND AFTER STORM EVENTS OF GREATER THAN OR EQUAL TO 2 INCHES.
• SILT AND SEDIMENT SHALL BE REMOVED FROM THE FILTER BED WHEN THE ACCUMULATION EXCEEDS SIX INCHES, OR WHEN WATER PONDS ON THE SURFACE OF THE DETENTION BASIN FOR MORE THAN 48 HOURS.
• SOIL EROSION GULLIES SHALL BE REPAIR WHEN THEY OCCUR.
• THE OUTLET DEVICES SHALL BE CLEANED/REPAIRED WHEN NECESSARY.
• TRASH AND DEBRIS SHALL BE REMOVED WHEN NECESSARY.
• THE LOW FLOW ORIFICE GRATE SHALL BE INSPECTED AFTER MAJOR STORM EVENTS EXCEEDING 2 INCHES OF RAIN. ANY TRASH OR DEBRIS SHALL BE REMOVED IMMEDIATELY.
• THE OUTFLOW WEIR SHOULD BE INSPECTED ANNUALLY TO ENSURE THAT IT IS FUNCTIONING PROPERLY.

ALL REMOVED SEDIMENT IS TO BE TESTED TO DETERMINE POLLUTANT CONTENT. SEDIMENT IS TO BE PROPERLY DISPOSED OF BASED UPON THE TEST RESULTS AND LOCAL, STATE, AND FEDERAL REGULATIONS.

DRAINAGE SYSTEM MAINTENANCE SCHEDULE:

UPON PROJECT COMPLETION, THE PROPERTY OWNER SHALL ADHERE TO THE FOLLOWING MAINTENANCE PLAN AND SCHEDULE:

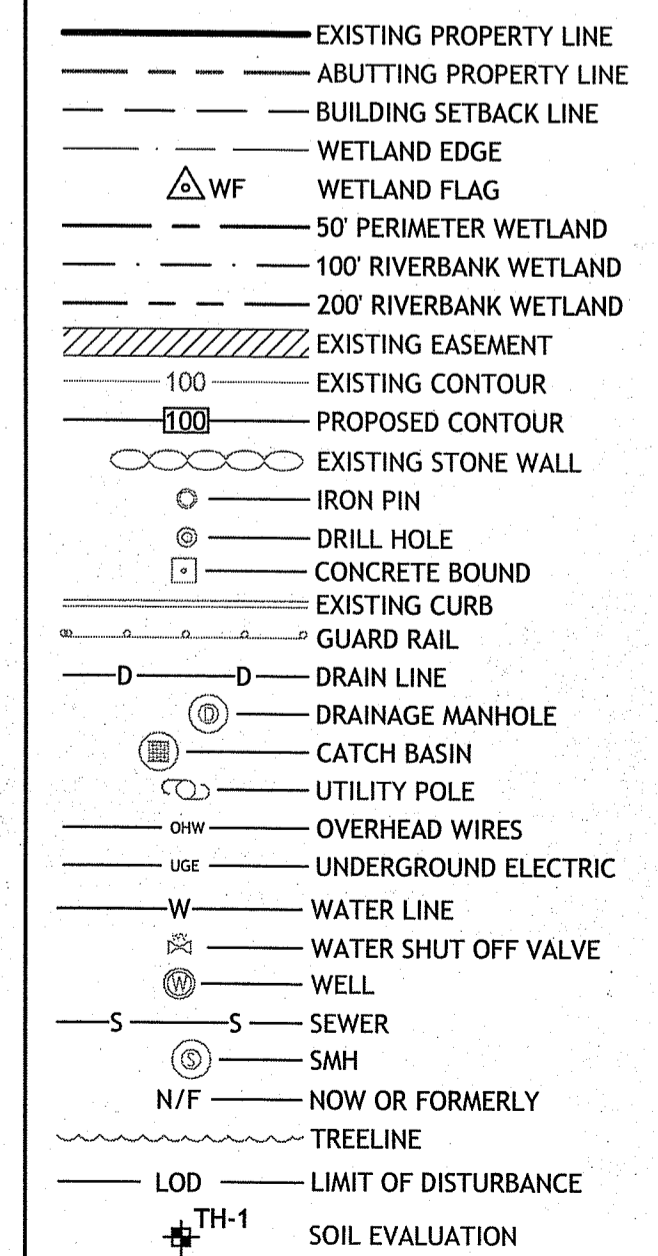
- 1. MANHOLES AND DRAIN LINES: AN INSPECTION MUST OCCUR ON AN ANNUAL BASIS BY QUALIFIED PERSONAL TO ENSURE PROPER OPERATION. THE INSPECTION SHOULD, AS A MINIMUM, CONCENTRATE ON THE FOLLOWING:
• DAMAGE TO GRATE/ COVERS
• EVIDENCE OF STANDING WATER
• DEBRIS REMOVAL
• STRUCTURAL ALIGNMENT/ INTEGRITY

ANY DEFICIENCY NOTED DURING THE INSPECTION WILL BE IMMEDIATELY REPAIRED OR REPLACED.

SEQUENCE & STAGING OF PROPOSED CONSTRUCTION ACTIVITIES:

THIS IS A GENERAL SEQUENCE AND STAGING OF CONSTRUCTION ACTIVITIES. A DETAILED SEQUENCE WITH TIME LINES SHALL BE ESTABLISHED BY THE CONTRACTOR IN COORDINATION WITH THE OWNER, ENGINEER AND SITE CONTRACTORS PRIOR TO THE START OF CONSTRUCTION.

- 1. SURVEY AND STAKE THE PROPOSED DRAINAGE BMPS (SEDIMENT FOREBAY, INFILTRATION BASIN, TREE FILTERS, AND GRASS SWALES), ROADWAY CENTERLINE, WATER LINE, OWTS LOCATIONS AND LIMIT OF DISTURBANCE. THE CONTRACTOR SHALL NOT COMPACT THE AREAS OF THE DRAINAGE BMPS DURING CONSTRUCTION OPERATIONS. CONTRACTOR SHALL INSTALL CONSTRUCTION FENCE TO PROTECT BMPS.
2. PLACE SEDIMENTATION BARRIERS (HAY BALES OR SILT FENCE) AS SHOWN ON THE PLANS AND AS STAKED OUT IN THE FIELD. IN NO CASE IS THE LIMIT OF WORK TO EXTEND BEYOND THE SEDIMENTATION BARRIERS.
3. BEGIN SITE WORK (CLEARING AND GRUBBING, EXCAVATING AND GRADING ETC.) TOPSOIL IS TO STRIPPED AND STOCKPILED WITHIN DISTURBANCE LIMITS. THE STOCKPILES ARE TO BE PROTECTED BY A ROW OF SEDIMENTATION BARRIERS. STOCKPILES TO BE COVERED OR TEMPORARILY SEEDED.
4. EXCAVATE AND CONSTRUCT STORMWATER MANAGEMENT AREAS AS SHOWN ON PLAN. DIVERT ALL THE RUNOFF FROM DISTURBED AREAS TO THE PROPOSED STORMWATER STORAGE AREA. DIVERT ALL THE RUNOFF FROM DISTURBED AREAS TO THE PROPOSED STORMWATER STORAGE AREA.
5. INSTALL UTILITIES AND DRAINAGE INCLUDING DRAINAGE PIPE. IMMEDIATELY PLACE THE RIP-RAP AT THE DISCHARGE POINTS. SEED ALL DISTURBED AREAS.
6. BEGIN BUILDING CONSTRUCTION.
7. BEGIN PAVEMENT AND PROPOSED GRADING. BRING ROADWAY TO SUBBASE GRADE WITH GRAVEL. SEED ALL DISTURBED AREAS.
8. FINISH PAVEMENT CONSTRUCTION.
9. MAINTAIN SEDIMENT AND EROSIONS CONTROLS WHILE BUILDING ARE CONSTRUCTED.
10. FINISH LANDSCAPING AND PERMANENT STABILIZATION.
11. INSPECT AND REPAIR ALL DRAINAGE STRUCTURES INCLUDING DISCHARGE POINTS. REMOVE ANY DEBRIS (LEAVES, TREE LIMBS, BOULDERS, ETC.) FROM DRAINAGE INLETS AND OUTLETS. FLUSH ALL SEDIMENTS FROM DRAINAGE PIPES AND APPLY TOPSOIL TO PONDS.
12. REMOVE ALL TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES ONCE VEGETATION HAS BEEN ESTABLISHED TO ALL DISTURBED AREAS.



JOE CASALI ENGINEERING, INC. CIVIL - SITE DEVELOPMENT - TRANSPORTATION - WETLANDS - ISDS - TRAFFIC - FLOODPLAIN - DRAINAGE - VULNERABILITY ANALYSIS - WWW.JOECSA.COM (401)844-1382 (401)844-1333

JOSEPH A. CASALI REGISTERED PROFESSIONAL ENGINEER CIVIL No. 250 A-1619

PROPOSED 2,280 SF COMMERCIAL CREDIT UNION PAWTUCKET CREDIT UNION 84 OLD TOWER HILL ROAD WAKEFIELD, RHODE ISLAND AP 57-2, PORTION OF LOT 68

PROPERTY OWNER BCPSTOR DEVELOPMENT II, LLC C/O RICHARD TASCIA 1 CUSTOM HOUSE ST., SUITE 4 PROVIDENCE, RI 02903 PHONE: 786-564-6263

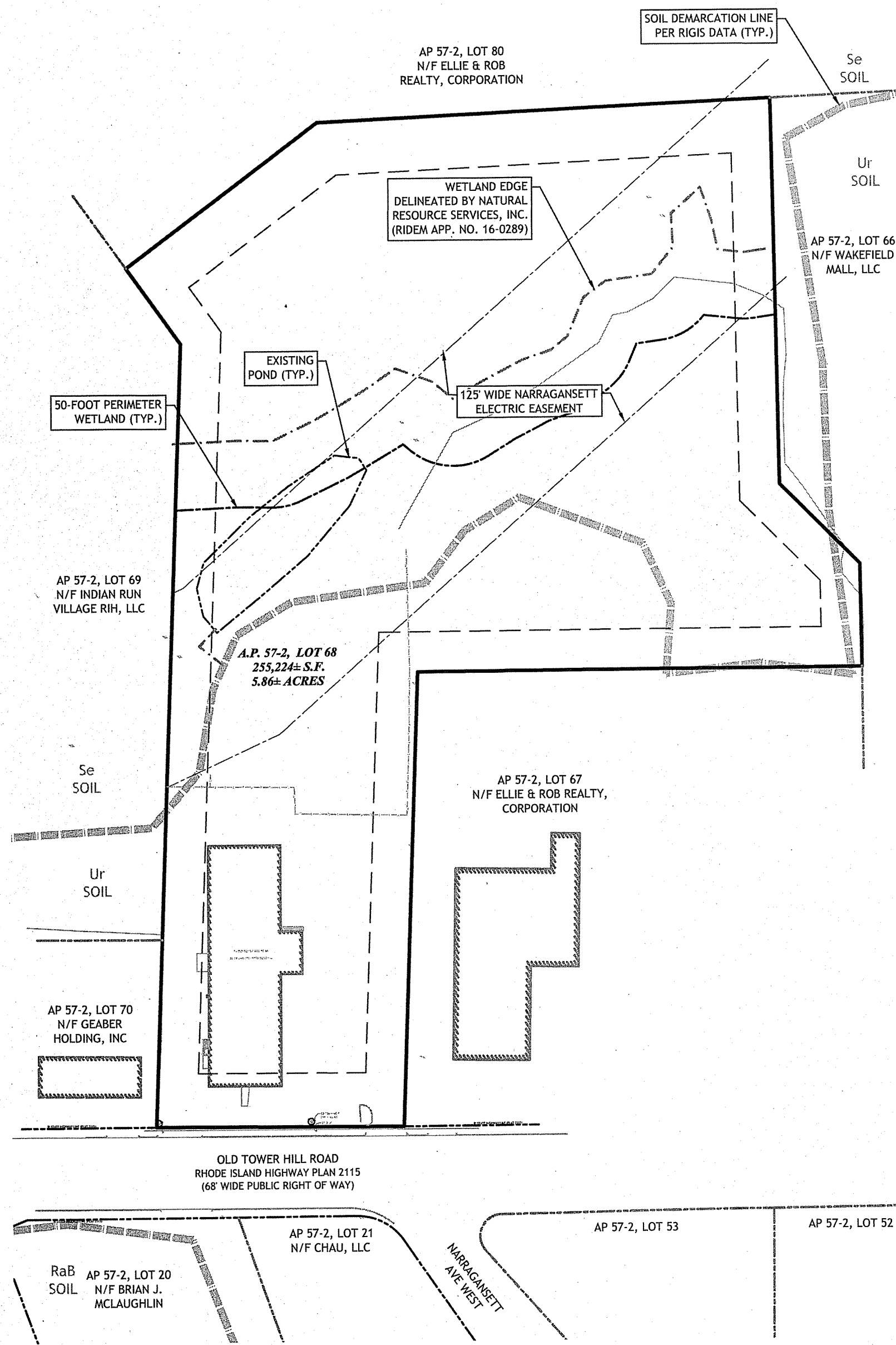
APPLICANT PAWTUCKET CREDIT UNION 1200 CENTRAL AVENUE PAWTUCKET, RI 02861 401-722-2212

Table with columns: NO. DATE, DESCRIPTION. Row 1: 1 4/4/2019 RIDEM/RIDOT RTC. Row 2: 2 4/16/2019 RIDEM RTC.

DESIGNED BY: WML/JR DRAWN BY: SD/SEP CHECKED BY: JAC DATE: JAN. 2019 PROJECT NO: 05-578

NOT FOR CONSTRUCTION, UNLESS APPROVED BY RIDEM & RIDOT

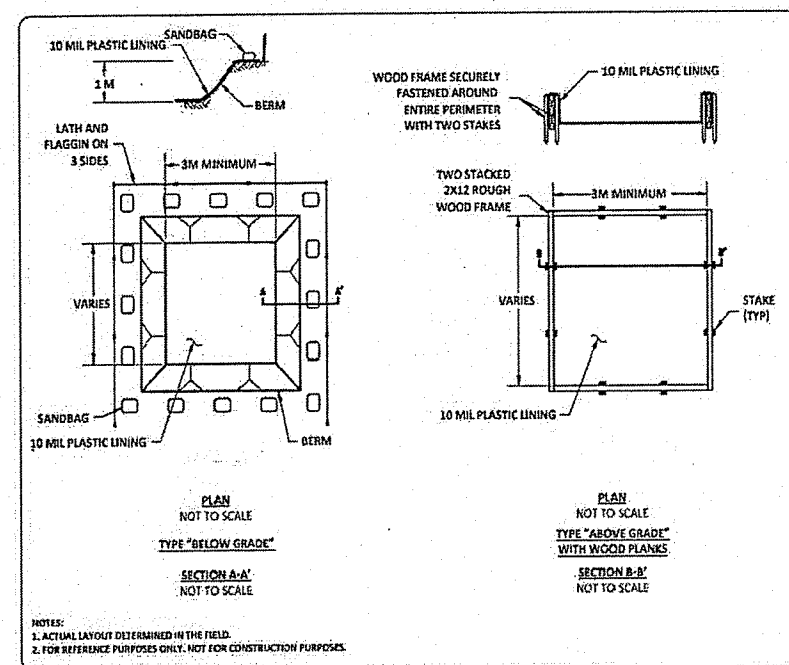
GENERAL NOTES & LEGEND SHEET 2 OF 12



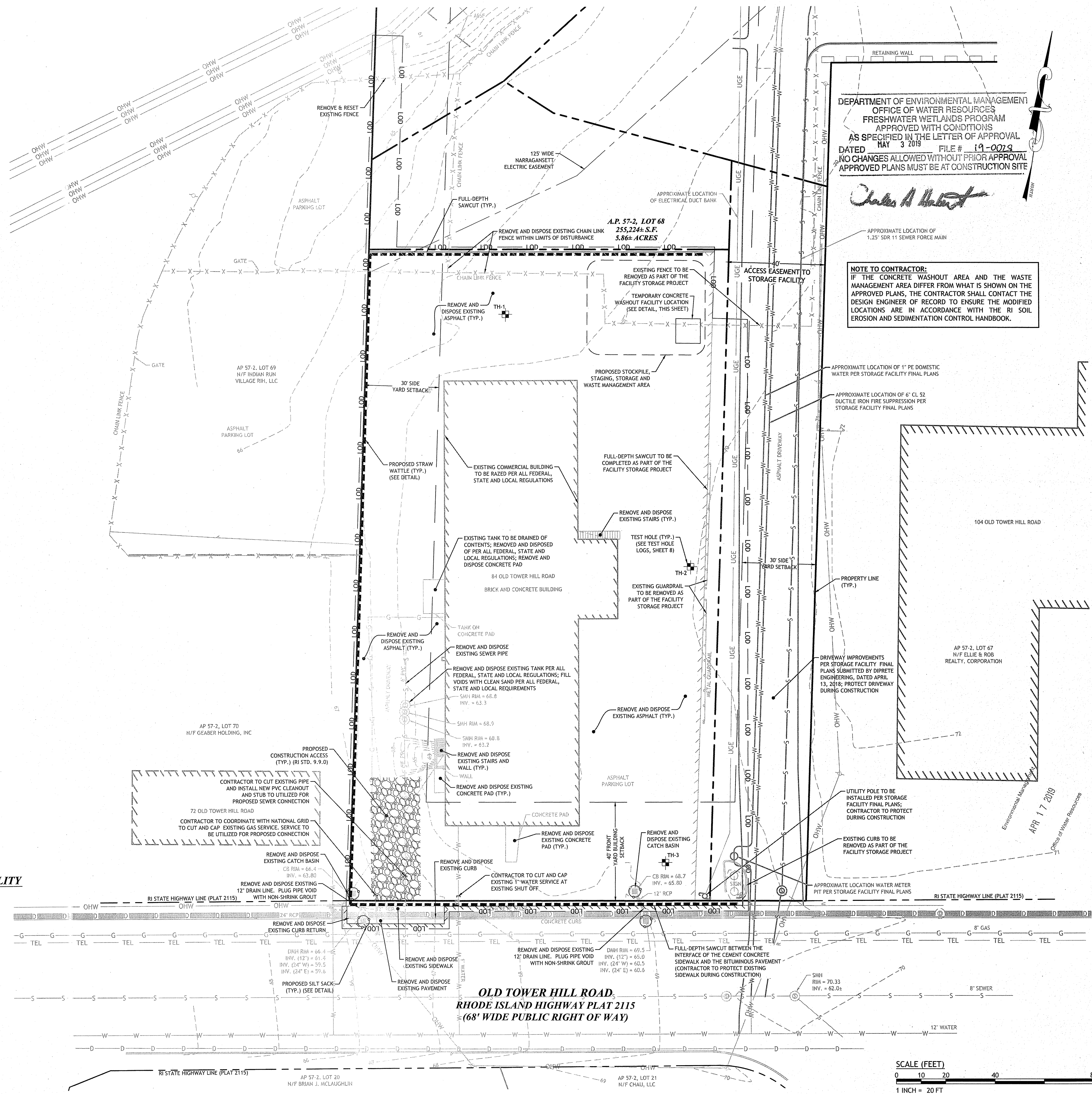
OVERALL SITE PLAN
SCALE: 1" = 80'

ZONING CRITERIA	REQUIRED	EXISTING
ZONING DISTRICT	CH (COMMERCIAL HIGHWAY)	CH
MINIMUM LOT AREA	20,000 SF	255,224 SF
MINIMUM LOT WIDTH	100 FT	185 FT
MINIMUM LOT FRONTAGE	100 FT	185 FT
MINIMUM FRONT YARD	40 FT	30.6 FT
MINIMUM SIDE YARD SETBACK	30 FT	38.1 FT
MINIMUM REAR YARD SETBACK	40 FT	>40 FT
MAXIMUM BUILDING HEIGHT	35 FT	<35 FT
MAXIMUM BUILDING COVERAGE	30%	<30%

SOIL EVALUATION TEST PIT DATA		
	SURFACE EL.	SHWT / EL.
TH-1	67.93	52' / 63.60
TH-2	70.00	68' / 64.33
TH-3	69.16	68' / 63.50



TEMPORARY CONCRETE WASHOUT FACILITY
NOT TO SCALE



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 3 2019 FILE # 19-0079
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Casali

NOTE TO CONTRACTOR:
IF THE CONCRETE WASHOUT AREA AND THE WASTE MANAGEMENT AREA DIFFER FROM WHAT IS SHOWN ON THE APPROVED PLANS, THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER OF RECORD TO ENSURE THE MODIFIED LOCATIONS ARE IN ACCORDANCE WITH THE RI SOIL EROSION AND SEDIMENTATION CONTROL HANDBOOK.

JOE CASALI ENGINEERING, INC.
CIVIL - SITE DEVELOPMENT - TRANSPORTATION
DRAINAGE - WETLANDS - I&DS - TRAFFIC - FLOODPLAIN
(603) 944-1300 (603) 944-1313 FAX (603) 944-1300 WWW.JOECSAL.COM

JOSEPH A. CASALI
No. 1250
REGISTERED PROFESSIONAL ENGINEER
CIVIL
A.16.19

**PROPOSED 2,280 SF COMMERCIAL CREDIT UNION
PAWTUCKET CREDIT UNION
84 OLD TOWER HILL ROAD
WAKEFIELD, RHODE ISLAND
AP 57-2, PORTION OF LOT 68**

PROPERTY OWNER
BCPSTOR DEVELOPMENT II, LLC
C/O RICHARD TASCIA
1 CUSTOM HOUSE ST., SUITE 4
PROVIDENCE, RI 02903
PHONE: 786-564-6263

APPLICANT
PAWTUCKET CREDIT UNION
1200 CENTRAL AVENUE
PAWTUCKET, RI 02861
401-722-2212

REVISIONS:

NO.	DATE	DESCRIPTION
1	4/4/2019	RIDEM/RTD/RTC
2	4/16/2019	RIDEM/RTC

DESIGNED BY: WML/JR
DRAWN BY: SD/SEP
CHECKED BY: JAC
DATE: JAN. 2019
PROJECT NO: 05-57K

NOT FOR CONSTRUCTION,
UNLESS APPROVED BY
RIDEM & RIDOT

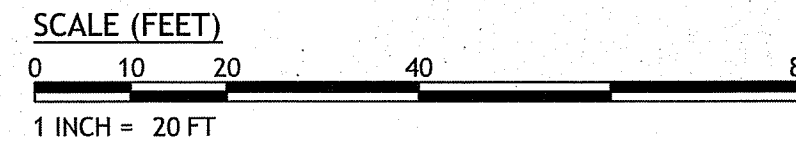
EXISTING CONDITIONS & SITE PREP PLAN

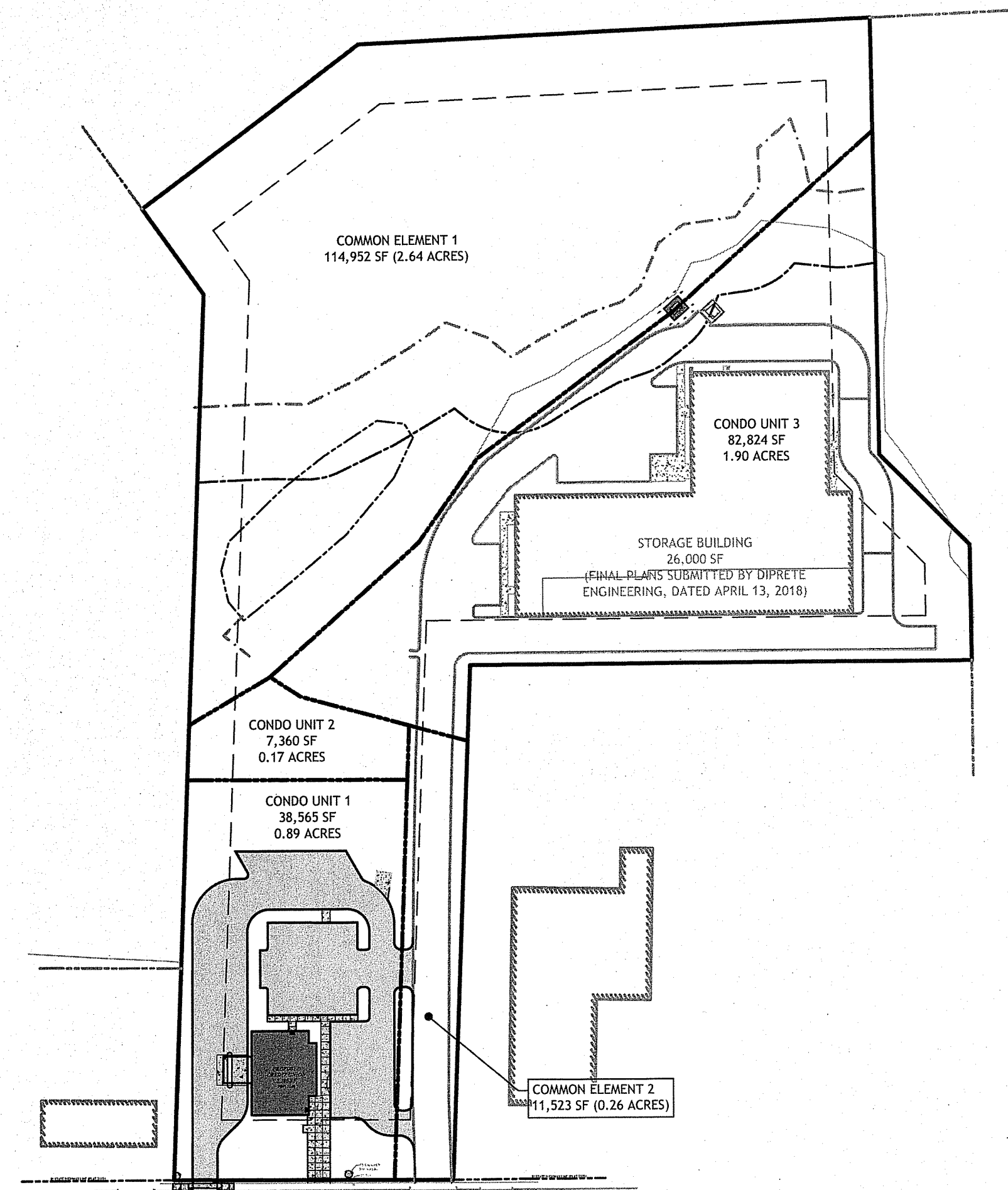
SHEET 3 OF 12

02:05:57 FC1005-57K Old Tower Hill Road/CDVPCU Wakefield [Preliminary] BS.dwg Apr. 16, 2019 4:33pm



LOCATION OF EXISTING UTILITIES SHOWN ARE FROM GATE LOCATION AND EXISTING DOCUMENTATION AND MAY NOT BE ACCURATE. EXACT LOCATION TO BE DONE BY THE APPROPRIATE UTILITY COMPANY OR MUNICIPALITY PRIOR TO ANY EXCAVATION CALL DEGREE AT: 1-888-DIG-SAFE.





OVERALL SITE PLAN
SCALE: 1" = 80'

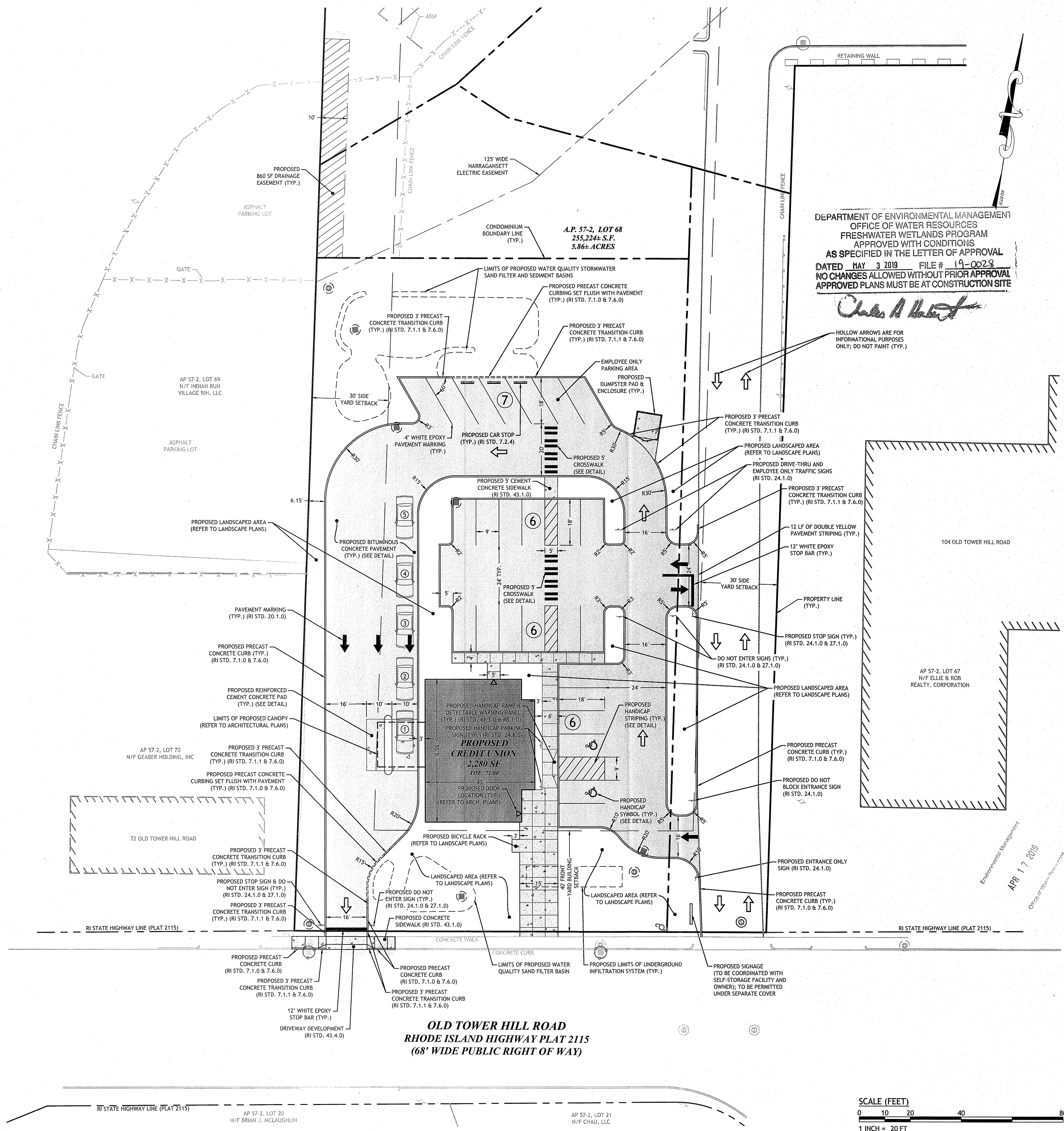
ZONING CRITERIA	REQUIRED	EXISTING	PROPOSED
ZONING DISTRICT	CH (COMMERCIAL HIGHWAY)	CH	CH
MINIMUM LOT AREA	20,000 SF	255,224 SF	255,224 SF
MINIMUM LOT WIDTH	100 FT	185 FT	185 FT
MINIMUM FRONT YARD	100 FT	30.6 FT	43.2 FT
MINIMUM SIDE YARD SETBACK	40 FT	38.1 FT	30 FT
MINIMUM REAR YARD SETBACK	40 FT	>40 FT	>40 FT
MAXIMUM BUILDING HEIGHT	35 FT	<35 FT	<35 FT
MAXIMUM BUILDING COVERAGE	30%	<30%	<30%

OFF-STREET PARKING SPACE REQUIREMENTS:

BANK USE
1 SPACE PER 350 SF OF FLOOR AREA

PROPOSED GFA: 2,300 SF
2,300 SF / 350 SF = 6.57 OR 7 SPACES

REQUIRED: 7 SPACES
PROVIDED: 25 SPACES



OLD TOWER HILL ROAD
RHODE ISLAND HIGHWAY PLAT 2115
(68' WIDE PUBLIC RIGHT OF WAY)

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 3 2019 FILE # 19-0028
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Casali

HOLLOW ARROWS ARE FOR INFORMATIONAL PURPOSES ONLY; DO NOT PAINT (TYP.)

JCE
JOE CASALI ENGINEERING, INC.
CIVIL - SITE DEVELOPMENT - TRANSPORTATION
DRAINAGE - WETLANDS - I&DS - TRAFFIC - FLOODPLAIN
0401 844 1300 0401 844 8373 FAX WWW.JCEINC.COM

JOSEPH A. CASALI
No. 1250
REGISTERED PROFESSIONAL ENGINEER - CIVIL
4.16.19

PROPOSED 2,280 SF COMMERCIAL CREDIT UNION
PAWTUCKET CREDIT UNION
84 OLD TOWER HILL ROAD
WAKEFIELD, RHODE ISLAND
AP 57-2, PORTION OF LOT 68

PROPERTY OWNER
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C/O RICHARD TASCA
1 CUSTOM HOUSE ST., SUITE 4
PROVIDENCE, RI 02903
PHONE: 786-564-6263

APPLICANT
PAWTUCKET CREDIT UNION
1200 CENTRAL AVENUE
PAWTUCKET, RI 02861
401-722-2212

REVISIONS:

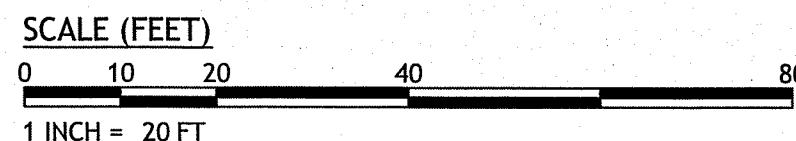
NO.	DATE	DESCRIPTION
1	4/4/2019	RIDEM/RIDOT RTC
2	4/16/2019	RIDEM RTC

DESIGNED BY: WMLJR
DRAWN BY: SDSEB
CHECKED BY: JAC
DATE: JAN 2019
PROJECT NO: 05-57K

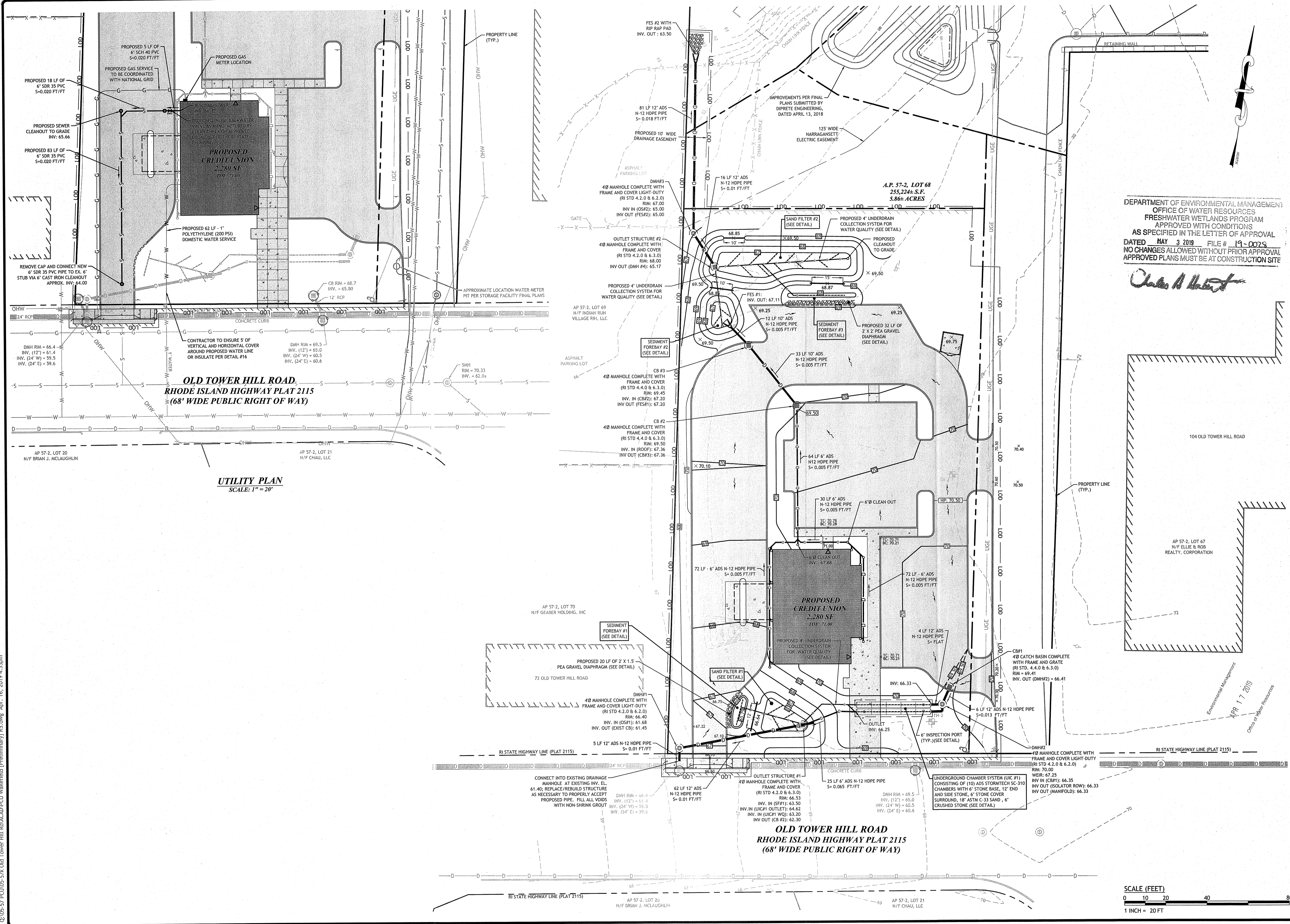
NOT FOR CONSTRUCTION,
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RIDEM & RIDOT

SITE PLAN

SHEET 4 OF 12



Q:\05-57 PCU\05-57K Old Tower Hill Rd\ACAD\PCU Wakefield [Preliminary] R5.dwg Apr. 16, 2019 4:33pm



**OLD TOWER HILL ROAD,
RHODE ISLAND HIGHWAY PLAT 2115
(68' WIDE PUBLIC RIGHT OF WAY)**

**UTILITY PLAN
SCALE: 1" = 20'**

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 3 2019 FILE # 19-002S
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Casali

JCE
JOE CASALI ENGINEERING, INC.
CIVIL, SITE DEVELOPMENT, TRANSPORTATION
DRAINAGE, 1800 POST ROAD, WARWICK, RI 02888
(401) 844-1300 (401) 844-1313 FAX WWW.JCEENGINEERING.COM

JOSEPH A. CASALI
No. 250
REGISTERED PROFESSIONAL ENGINEER
CIVIL
4.16.19

**PROPOSED 2,280 SF COMMERCIAL CREDIT UNION
PAWTUCKET CREDIT UNION
84 OLD TOWER HILL ROAD
WAKEFIELD, RHODE ISLAND
AP 57-2, PORTION OF LOT 68**

PROPERTY OWNER
BCPSTOR DEVELOPMENT II, LLC
C/O RICHARD TASCA
1 CUSTOM HOUSE ST., SUITE 4
PROVIDENCE, RI 02903
PHONE: 786-564-6263

APPLICANT
PAWTUCKET CREDIT UNION
1200 CENTRAL AVENUE
PAWTUCKET, RI 02861
401-722-2212

REVISIONS:

NO.	DATE	DESCRIPTION
1	4/4/2019	RIDEM/RIDOT RTC
2	4/16/2019	RIDEM RTC

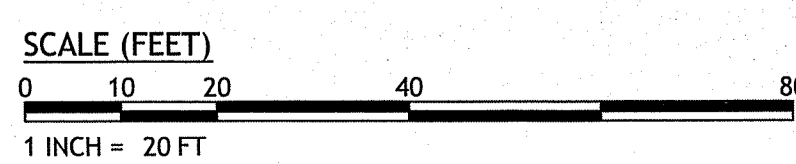
DESIGNED BY: WML/JR
DRAWN BY: SD/SEP
CHECKED BY: JAC
DATE: JAN. 2019
PROJECT NO.: 05-57K

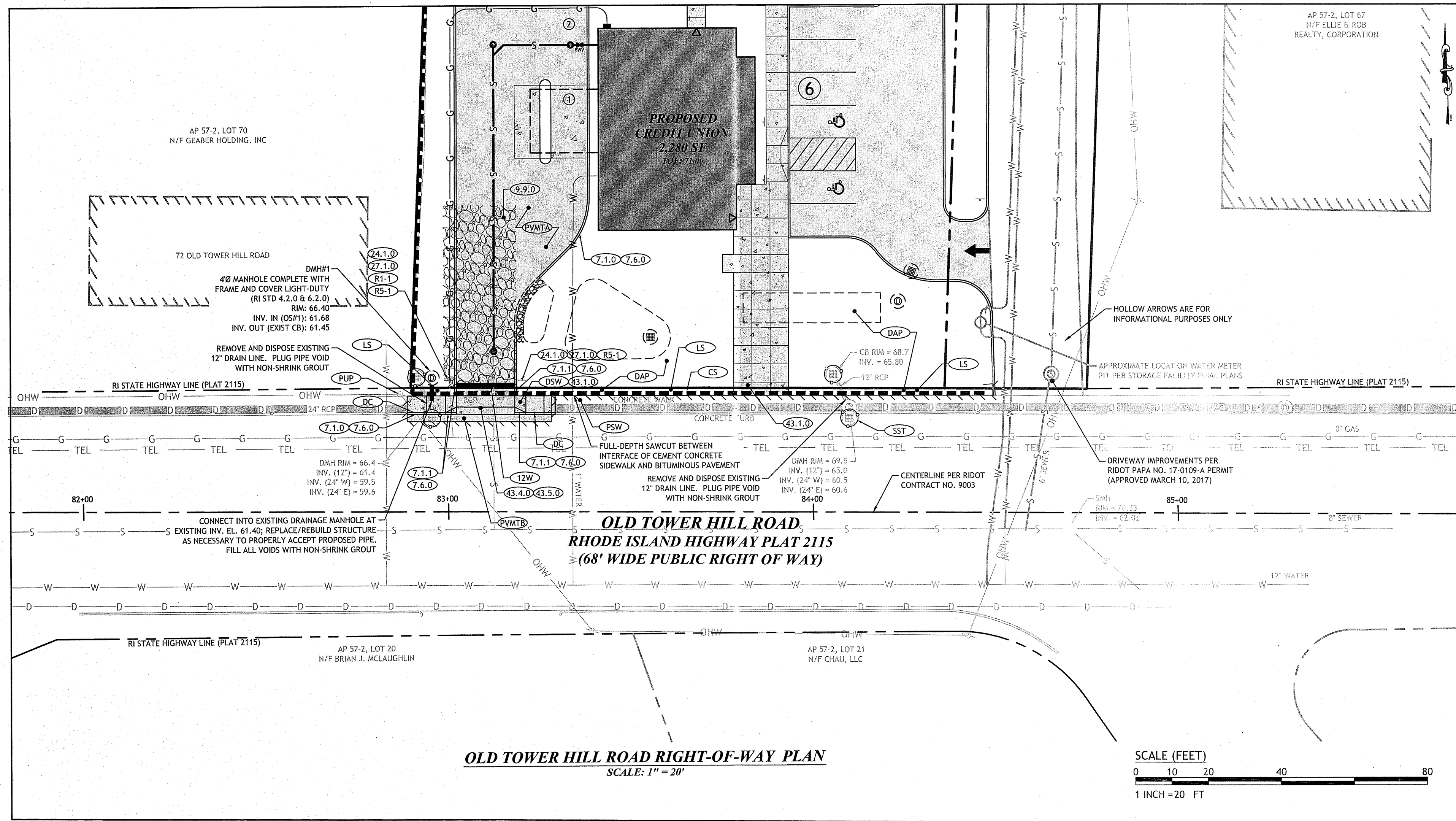
NOT FOR CONSTRUCTION,
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RIDEM & RIDOT

**GRADING,
DRAINAGE,
& UTILITY
PLAN**

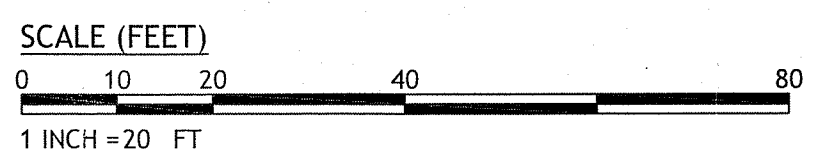
**SHEET
5 OF 12**

Q:\05-57 PC\05-57K Old Tower Hill Rd\ACAD\FCU Wakefield [Preliminary] R5.dwg Apr. 16, 2019 4:33pm





OLD TOWER HILL ROAD RIGHT-OF-WAY PLAN
SCALE: 1" = 20'



RHODE ISLAND STANDARDS

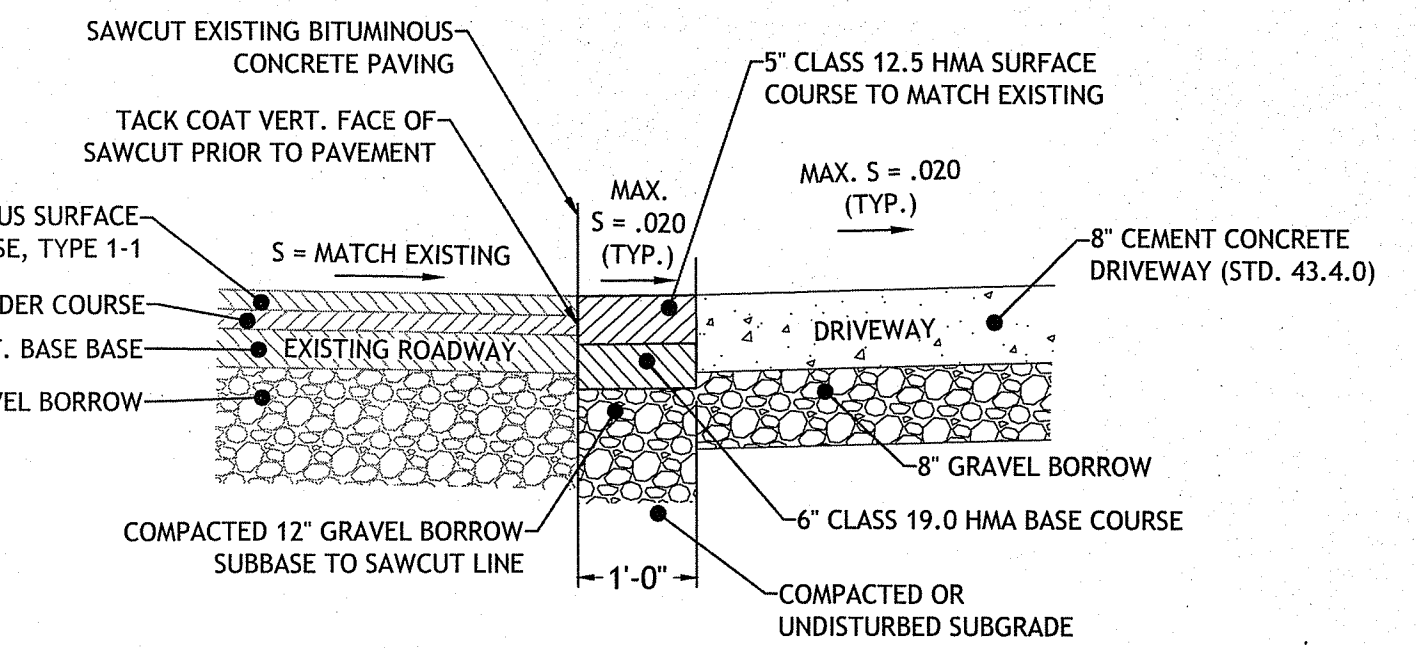
- (CS) COMPOST SOCK
- (DAP) REMOVE AND DISPOSE ASPHALT PAVEMENT
- (DC) REMOVE AND DISPOSE CURB
- (DSW) REMOVE AND DISPOSE SIDEWALK
- (LS) LOAM & SEED
- (PSW) PROTECT SIDEWALK
- (PUP) PROTECT UTILITY POLE
- (R1-1) STOP SIGN
- (R5-1) DO NOT ENTER SIGN
- (SST) SILT SACK SEDIMENT TRAP
- (12W) 12" EPOXY RESIN PAVEMENT MARKINGS - WHITE
- (7.1.0) PRECAST CONCRETE CURB
- (7.1.1) PRECAST 3" CONCRETE TRANSITION CURB
- (7.6.0) CURB SETTING
- (9.9.0) CONSTRUCTION ACCESS
- (24.1.0) SIGN POST INSTALLATION SQUARE POST
- (27.1.0) REGULATORY SIGN
- (43.1.0) CEMENT CONCRETE SIDEWALK
- (43.4.0) DRIVEWAY DEVELOPMENT FOR 3'-0" TRANSITION CURB
- (43.5.0) CEMENT CONCRETE DRIVEWAY

- NOTES:**
- ALL WORK TO BE DONE WITHIN THE STATE RIGHT-OF-WAY (ROW) SHALL CONFORM TO RI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AMENDED 2013 WITH ALL REVISIONS AND ADDENDA. STANDARD DETAILS FOR THIS WORK ARE RI STANDARD DETAILS 1998 EDITION WITH ALL REVISIONS.
 - UTILITY WORK SHOWN AS REFERENCE. THIS WORK NEEDS TO BE PERMITTED THROUGH A PHYSICAL UTILITY PERMIT (PUP) WITH RIDOT'S DIVISION OF MAINTENANCE.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE AND PROTECTION OF PEDESTRIAN AND VEHICULAR TRAFFIC INCLUDING POLICE PROTECTION. ALL TEMPORARY AND VEHICULAR SIGNS, BARRICADES AND LANE CLOSURES SHALL BE IN CONFORMANCE WITH THE LATEST REVISIONS OF MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
 - CONTRACTOR TO PROVIDE TEMPORARY EROSION CONTROLS TO PROTECT THE STATE ROW DURING THE DEMOLITION OF EXISTING DRIVEWAY AND CONSTRUCTION OF NEW DRIVEWAY.

- (PVMTA) PROPOSED DRIVEWAY ENTRANCE STRUCTURE:
1.5" BITUMINOUS SURFACE COURSE CLASS 9.5
2.25" BITUMINOUS BASE COURSE CLASS 12.5
8" GRAVEL BORROW SUBBASE COURSE (RIDOT M.01.09 TYPE 1) PLACES AND COMPACTED IN 8-INCH THICK (MAX) LOOSE LIFTS
- (PVMTB) EXISTING STATE ROADWAY PAVEMENT STRUCTURE PER CONTRACT NO. 9003:
5" BITUMINOUS SURFACE COURSE (CLASS 12.5 HMA)
6" BITUMINOUS BASE COURSE (CLASS 19 HMA)
12" GRAVEL BORROW SUBBASE COURSE

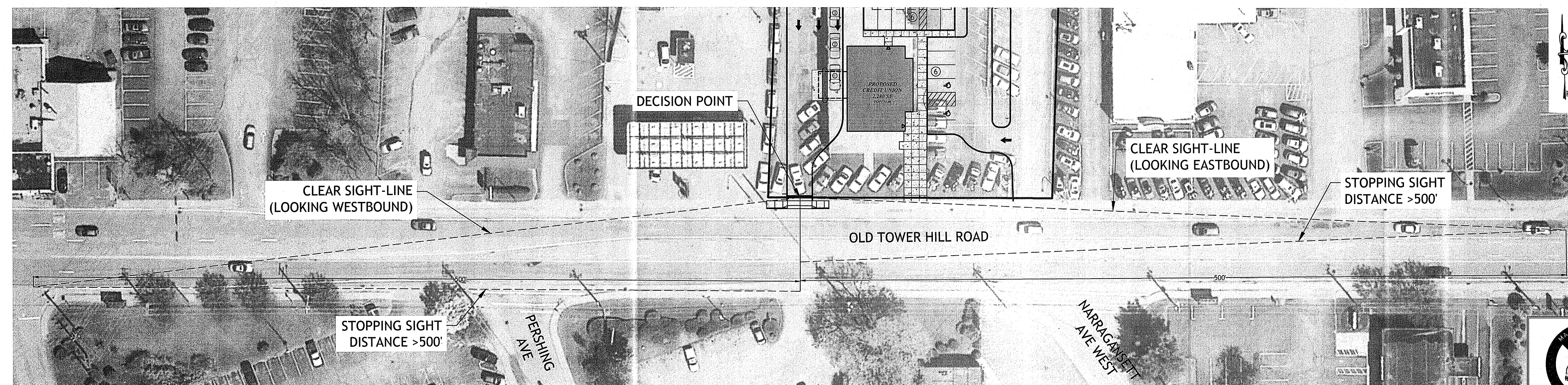
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Charles A. Casali

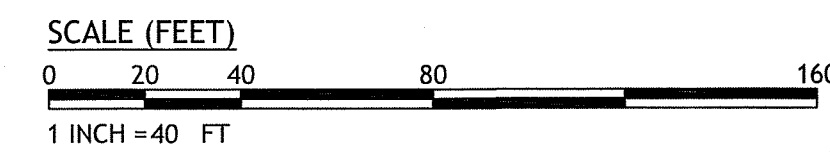


- NOTES:**
- MINIMUM COMPACTION FOR GRAVEL SUB-BASE OR SUBGRADE: 95% MODIFIED PROCTOR.
 - NO WORK SHOULD BE DONE OUTSIDE OF THE PROJECT SITE. PAVEMENT SHOULD MATCH WHERE NOTED ON THE SITE PLANS.
 - WHEN MATCHING EXISTING PAVEMENT, THE LONGITUDINAL CUT AND MATCH SECTION SHOULD NOT EXCEED PAST THE SHOULDER STRIPING.

(PVMTB) ROW SAWCUT AND MATCH DETAIL
NOT TO SCALE



LOCATION KEY PLAN
SCALE: 1" = 40'

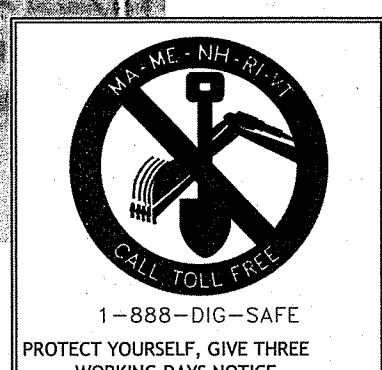


POSTED SPEED LIMIT ON OLD TOWER HILL ROAD: 25 MPH

AASHTO STOPPING SIGHT DISTANCE (SSD) REQUIREMENTS:

SPEED	DISTANCE
25	155 FT.
30	200 FT.
35	250 FT.
55	495 FT.

SITE MEETS REQUIREMENTS FOR THE POSTED SPEED LIMIT ON TOWER HILL ROAD BASED ON A TRAFFIC IMPACT STUDY PERFORMED BY BETA GROUP IN AUGUST 2018. THE AVAILABLE SIGHT DISTANCES AT THE PROPOSED DRIVEWAY LOCATIONS ON TOWER HILL ROAD ARE IN EXCESS OF 500 FEET TO THE EAST AND WEST. THE DEFINED ROADWAY GEOMETRY RESULTS IN VALUES THAT ARE GREATER THAN THE 250-FOOT MINIMUM STOPPING SIGHT DISTANCE REQUIRED ACCORDING TO AASHTO CRITERIA FOR THE MEASURED 85TH PERCENTILE SPEED OF APPROXIMATELY 35 MPH AS IDENTIFIED ALONG THIS SECTION OF OLD TOWER HILL ROAD.



LOCATION OF EXISTING UTILITIES SHOWN, ARE FROM GATE LOCATION AND EXISTING DOCUMENTATION AND MAY NOT BE ACCURATE. EXACT LOCATION TO BE DONE BY THE APPROPRIATE UTILITY COMPANY OR MUNICIPALITY PRIOR TO ANY EXCAVATION CALL DIGSAFE AT: 1-888-DIG-SAFE 1-888-344-7233

JCE
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4.16.19

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AP 57-2, PORTION OF LOT 68

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1200 CENTRAL AVENUE
PAWTUCKET, RI 02861
401-722-2212

REVISIONS:

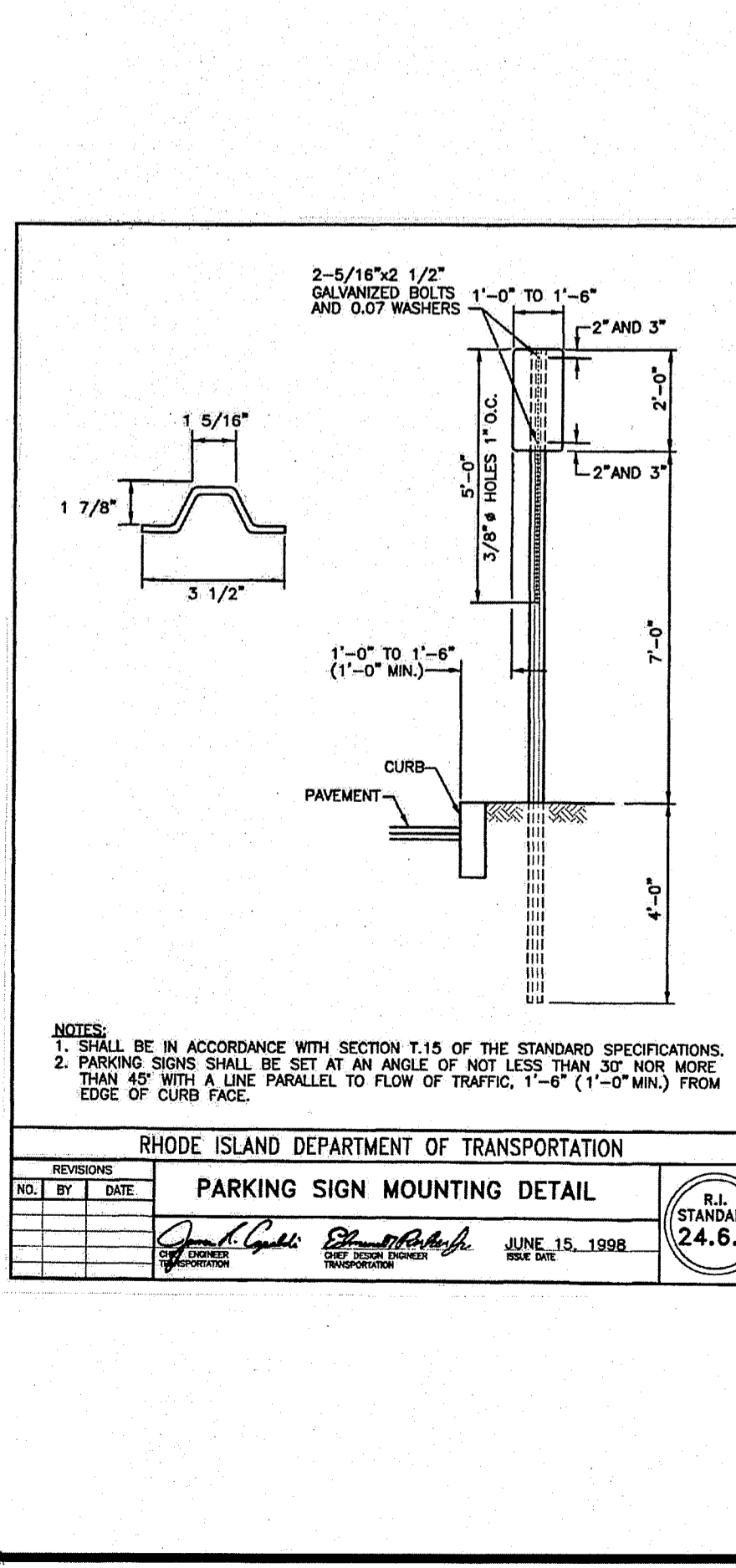
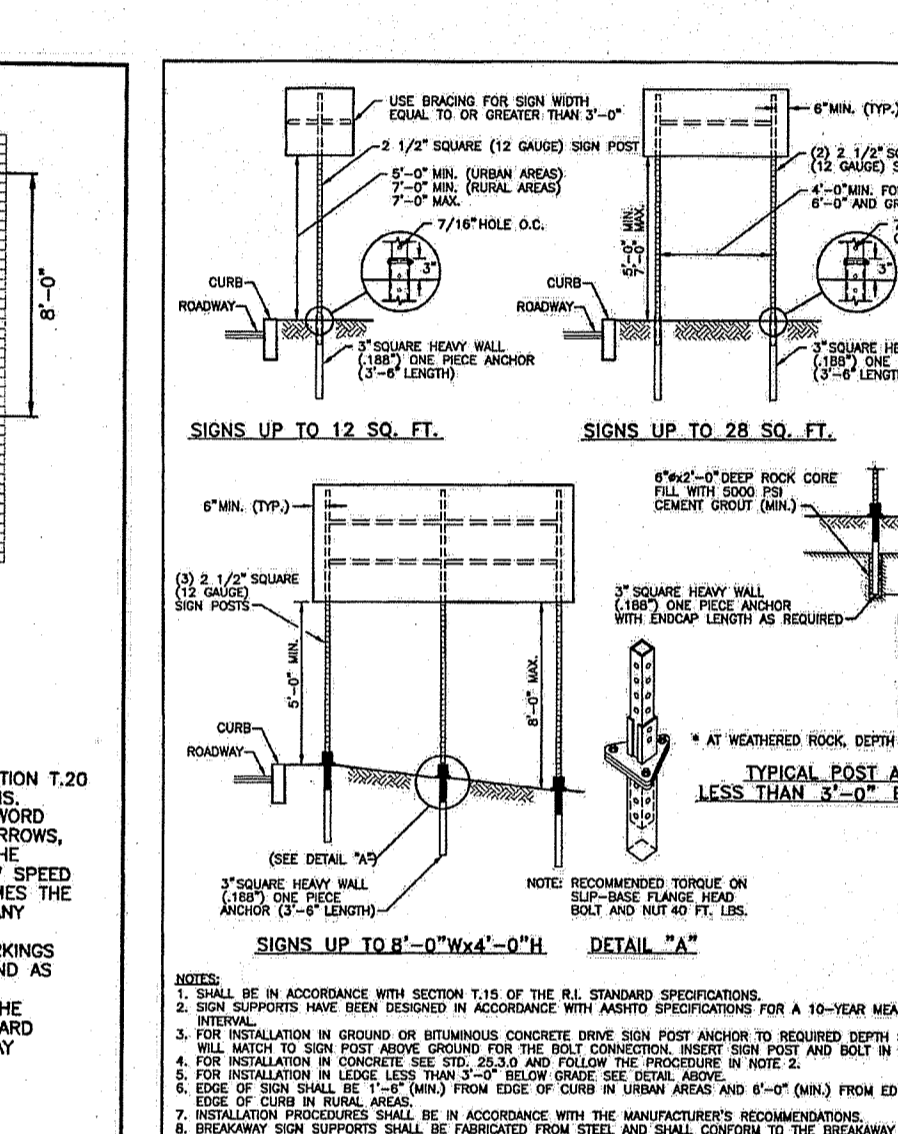
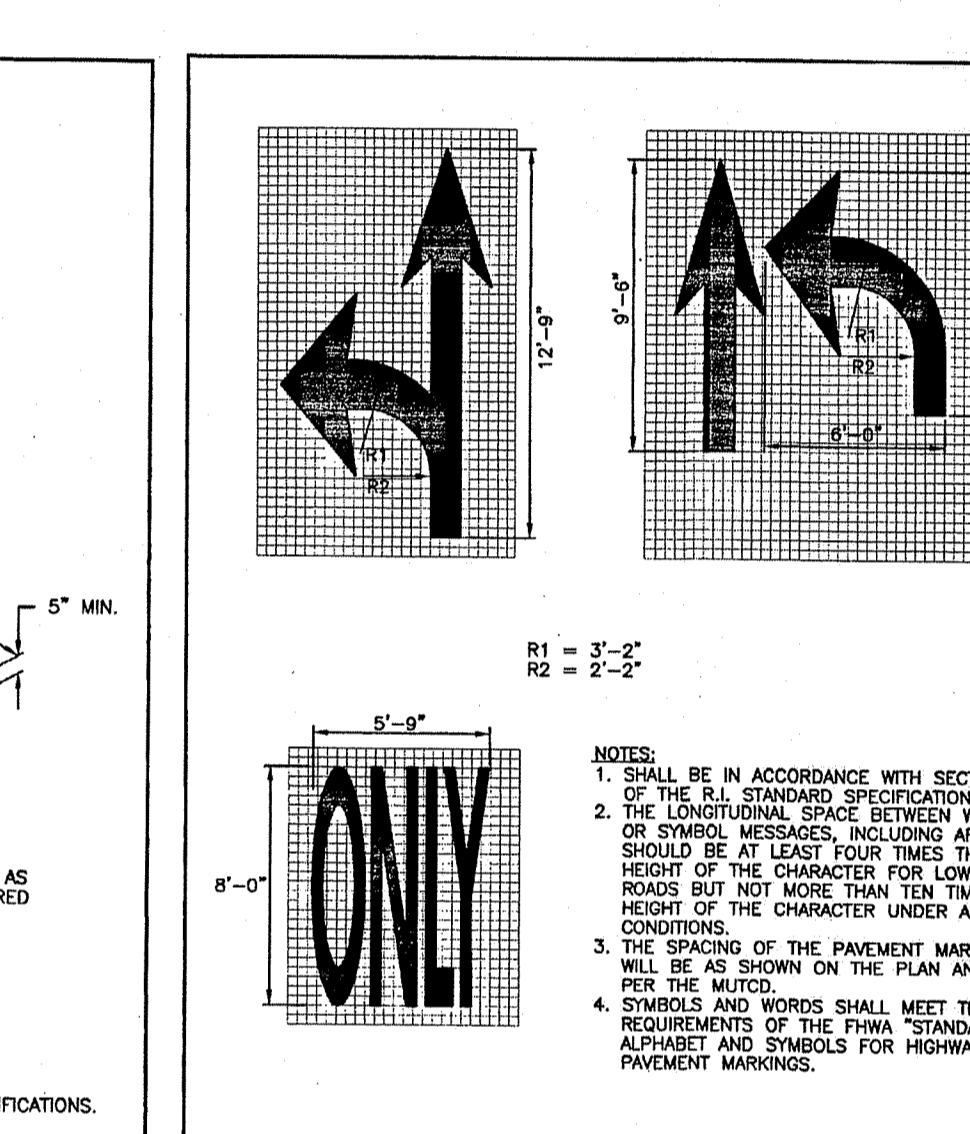
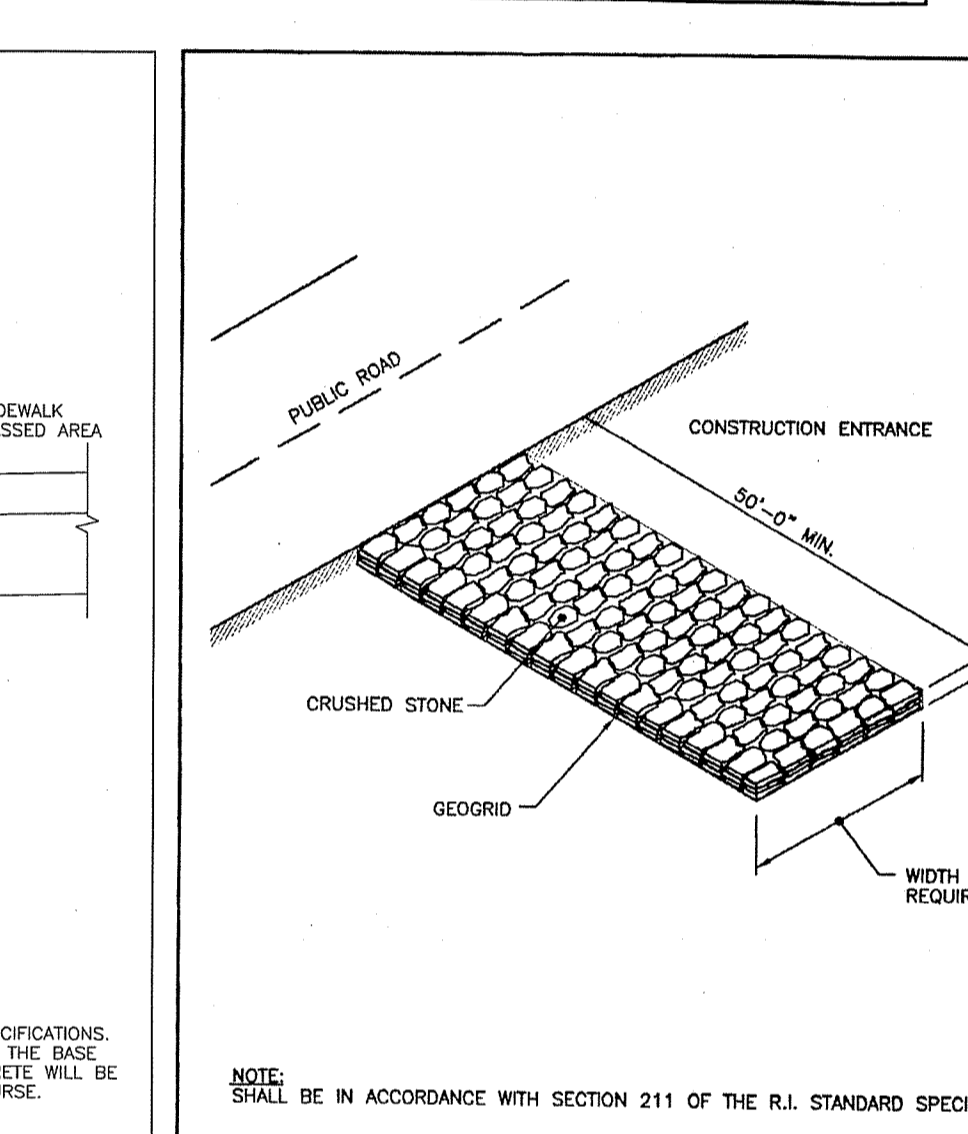
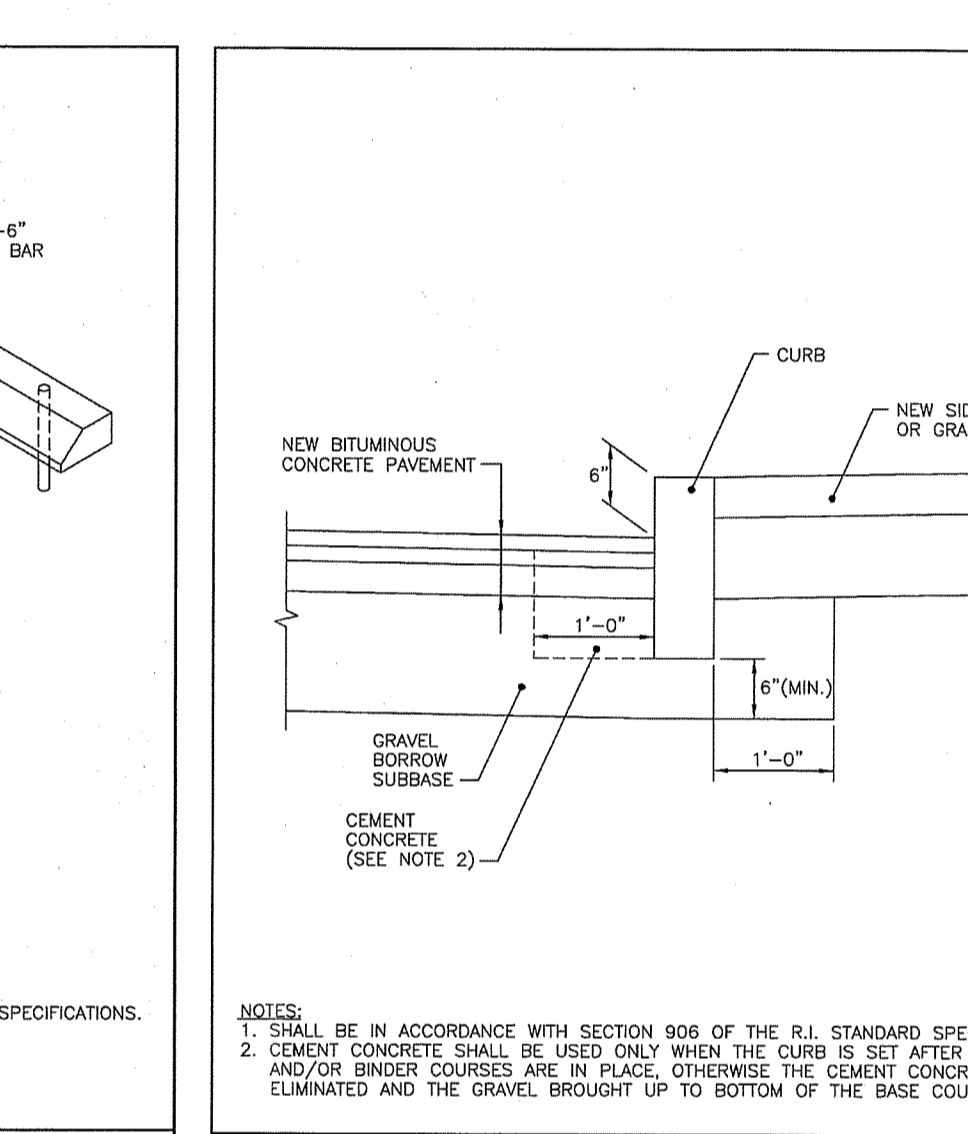
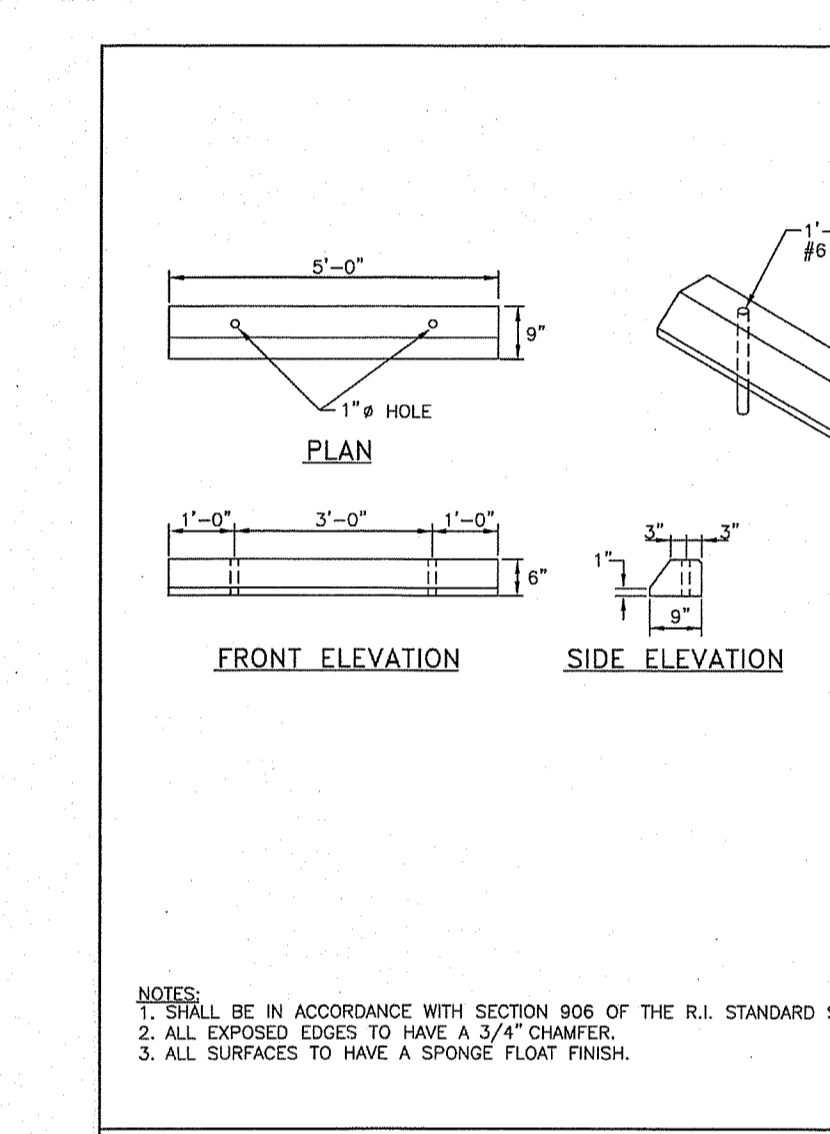
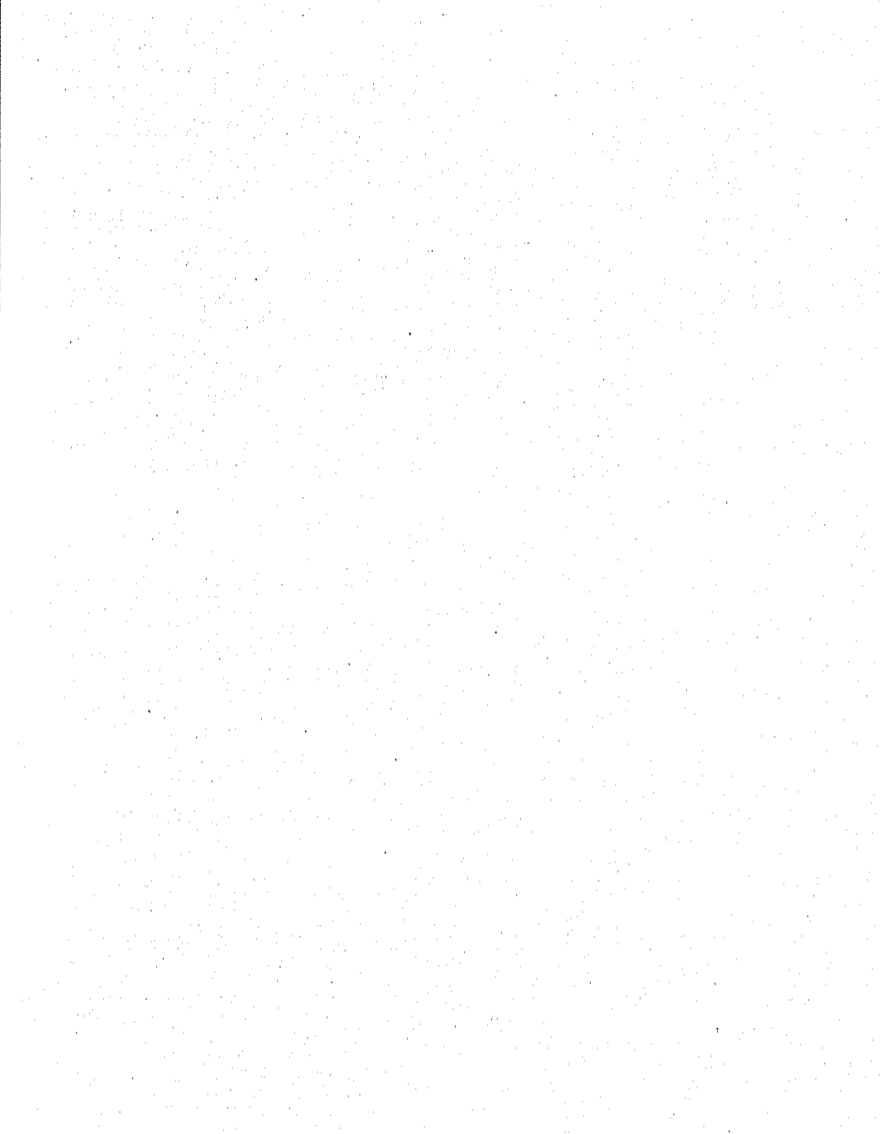
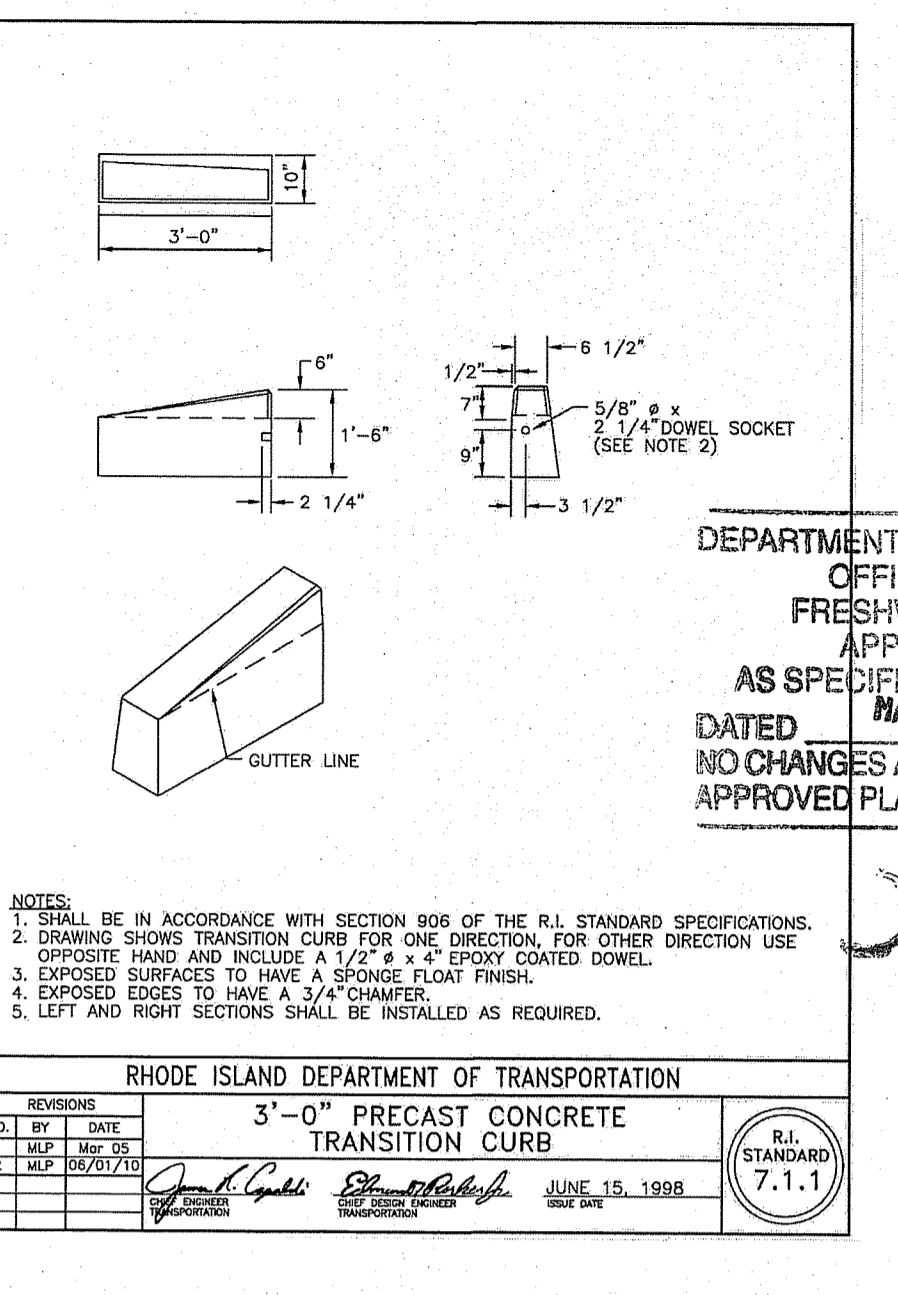
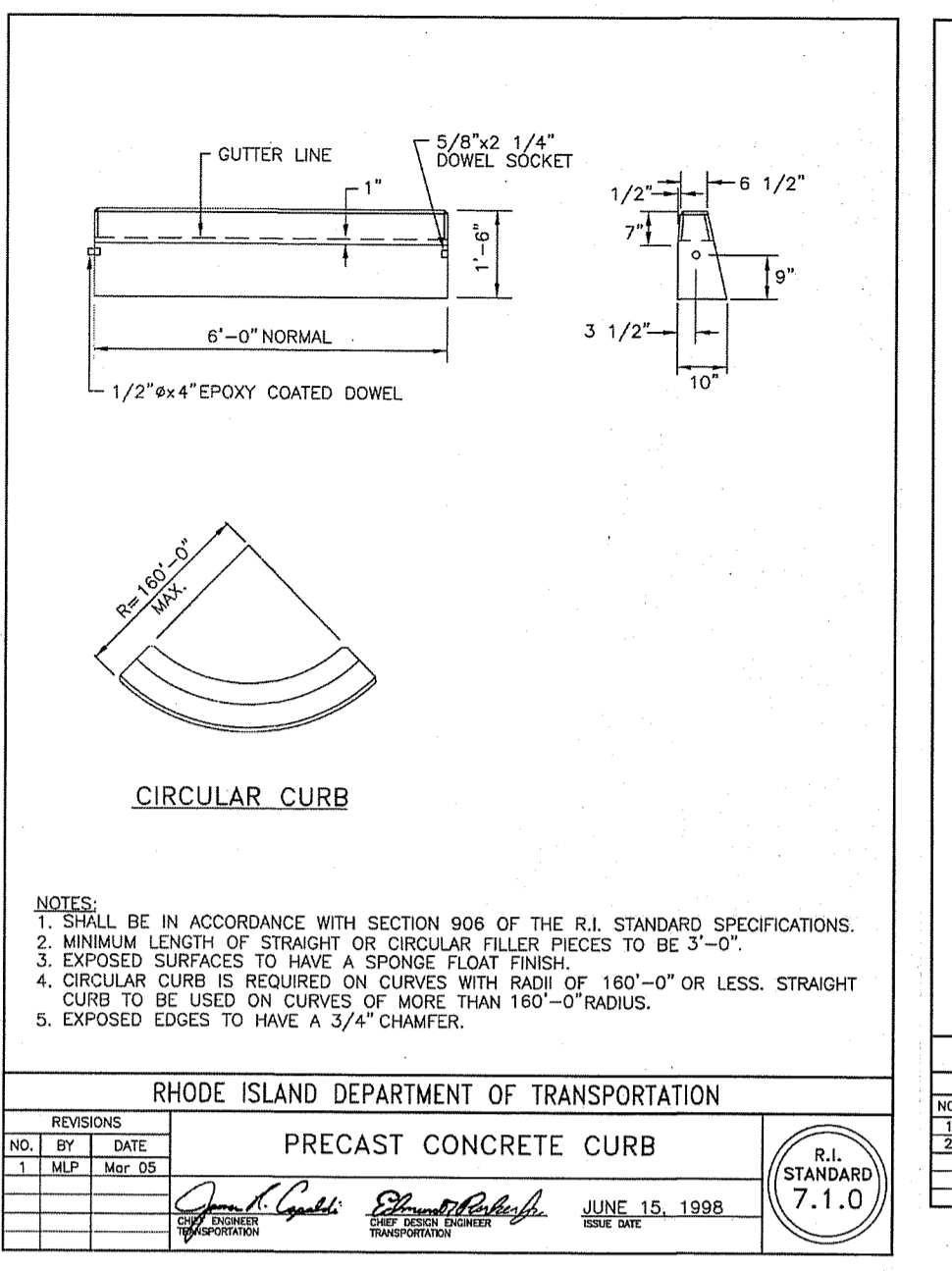
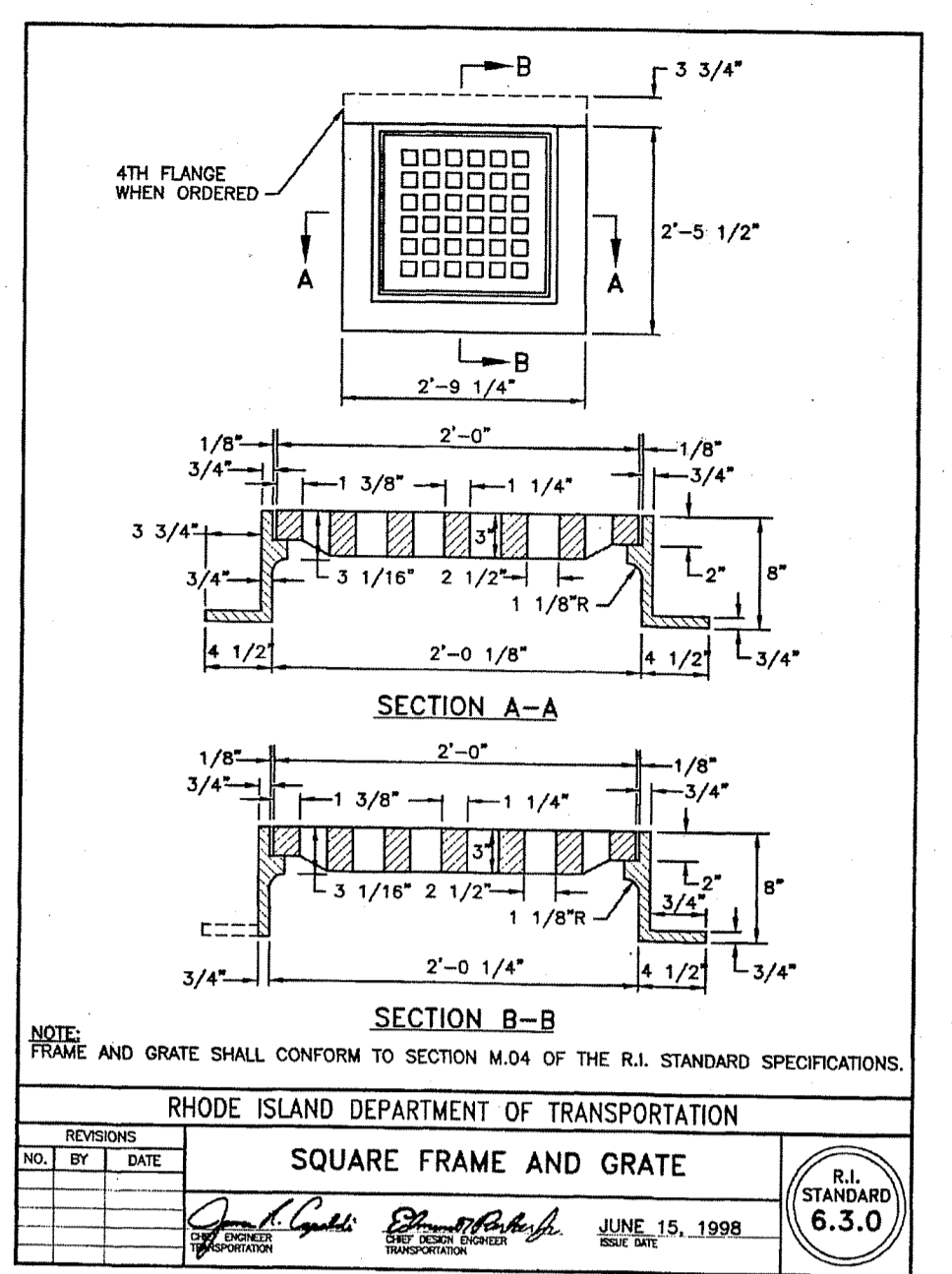
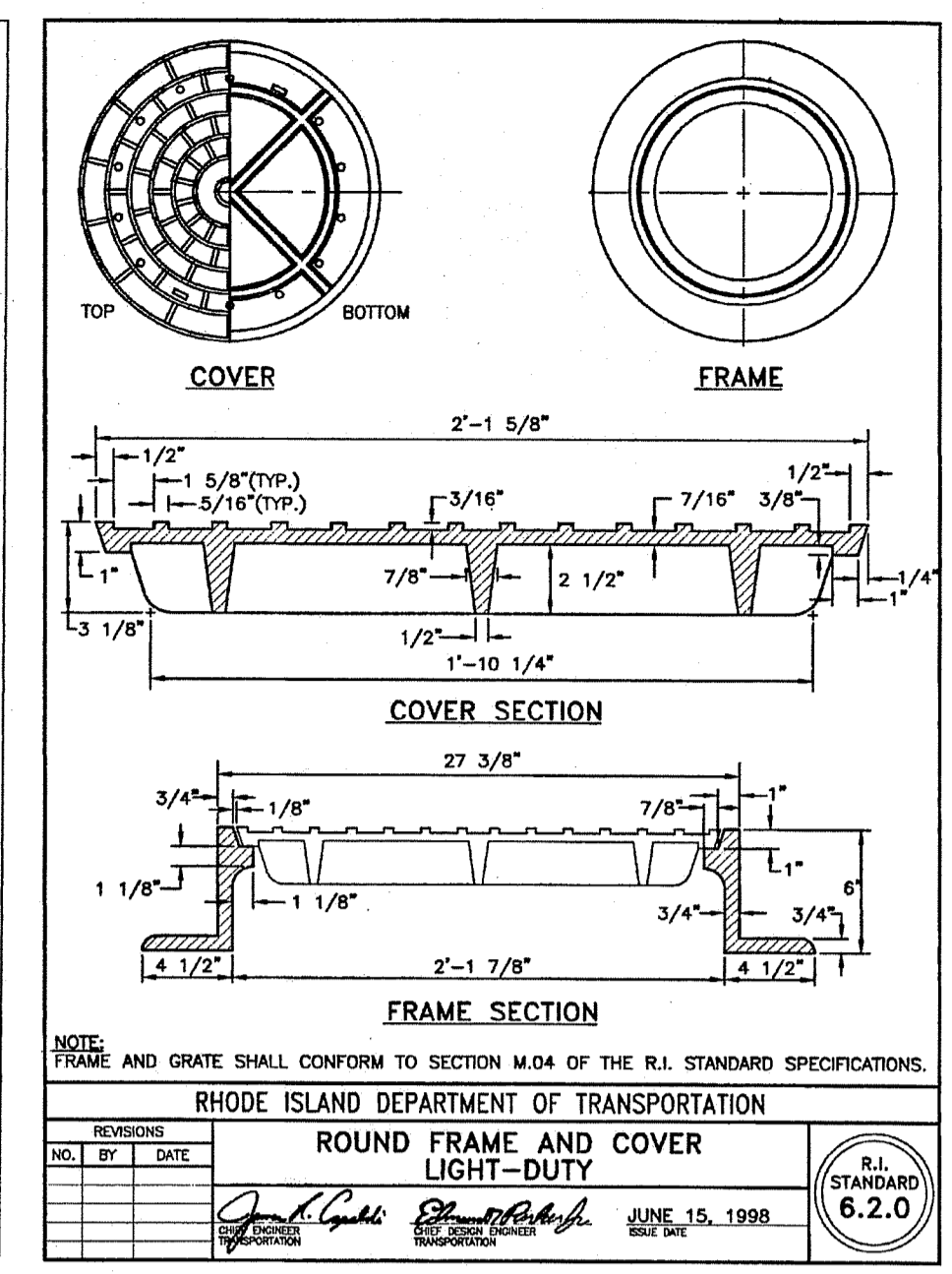
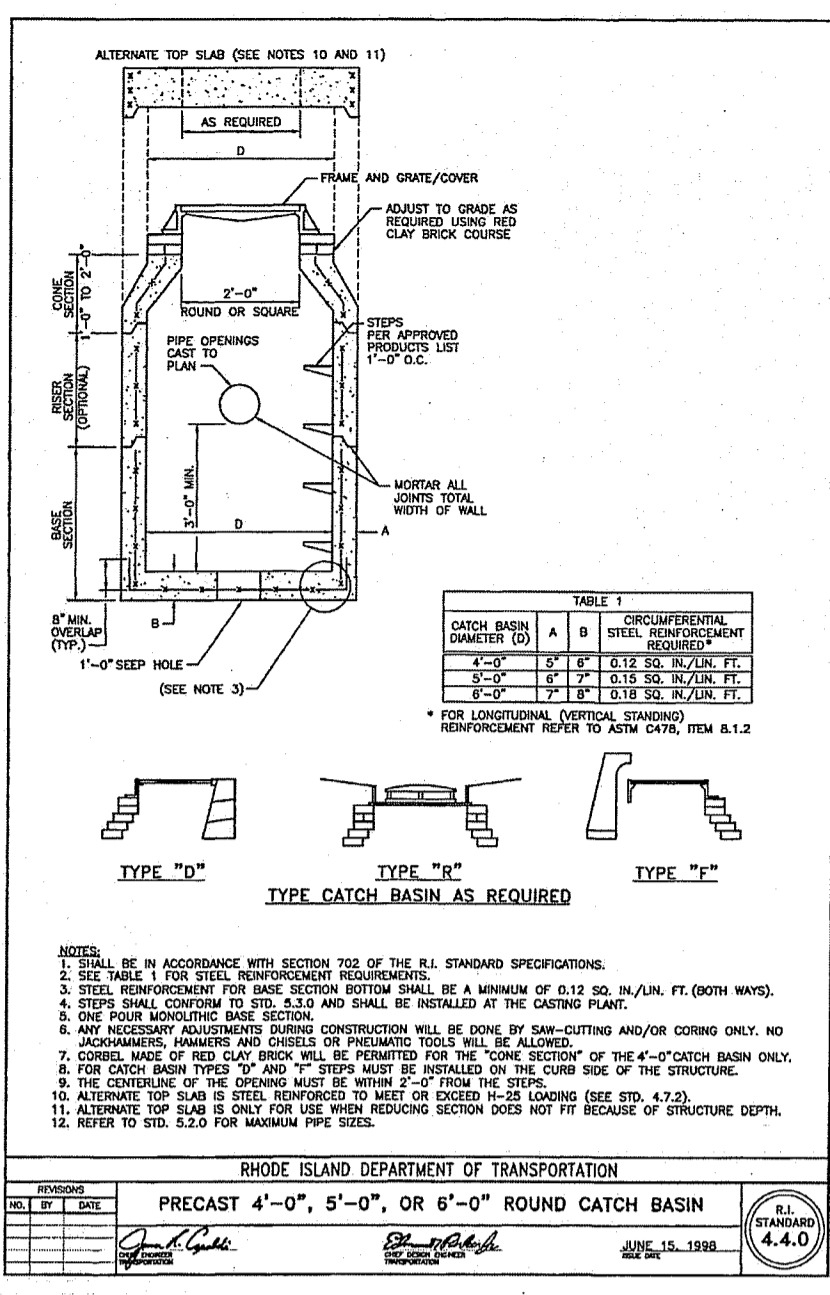
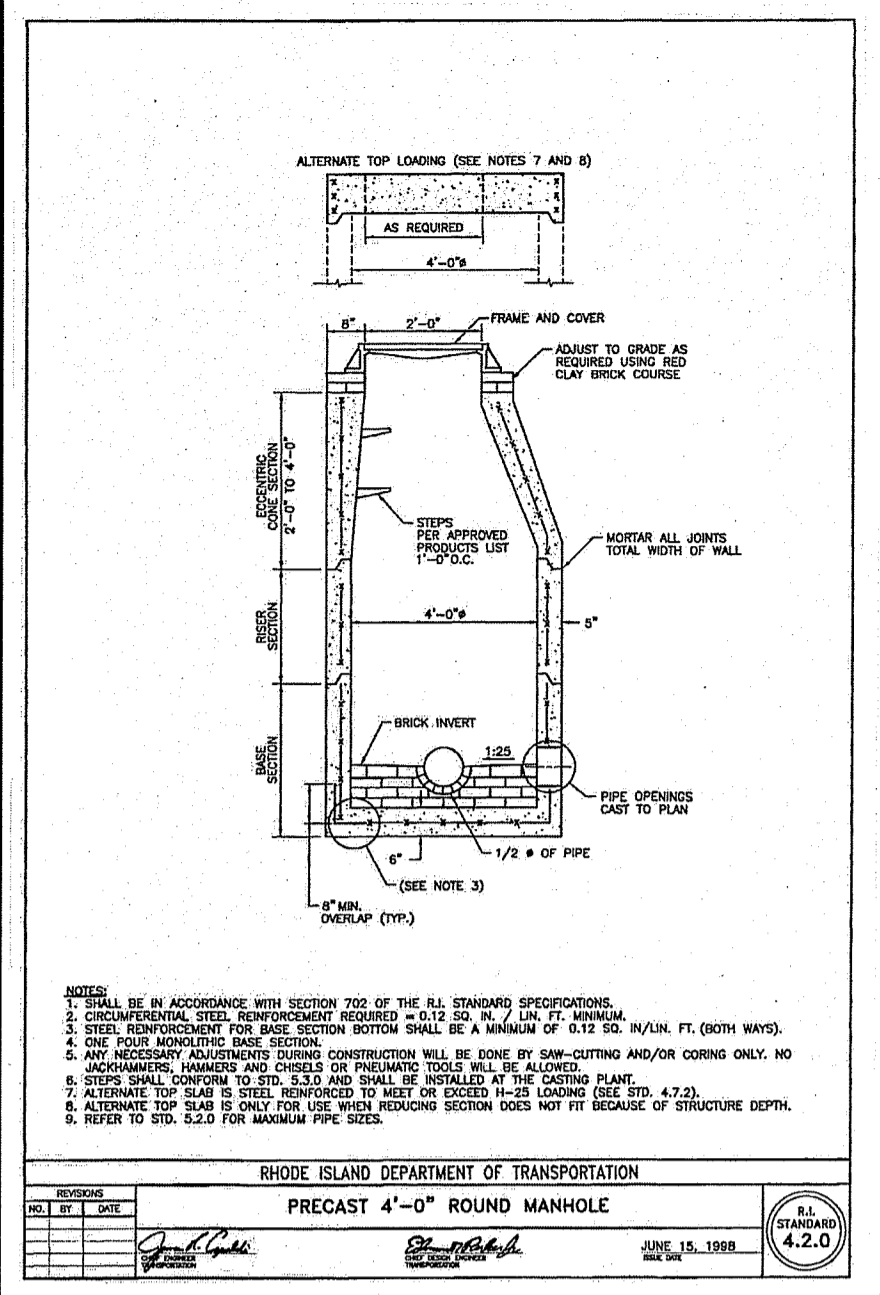
NO.	DATE	DESCRIPTION
1	4/4/2019	RIDEM/RIDOT RTC
2	4/16/2019	RIDEM RTC

DESIGNED BY: WMLJR
DRAWN BY: SD/SEB
CHECKED BY: JAC
DATE: JAN. 2019
PROJECT NO: 05-57K

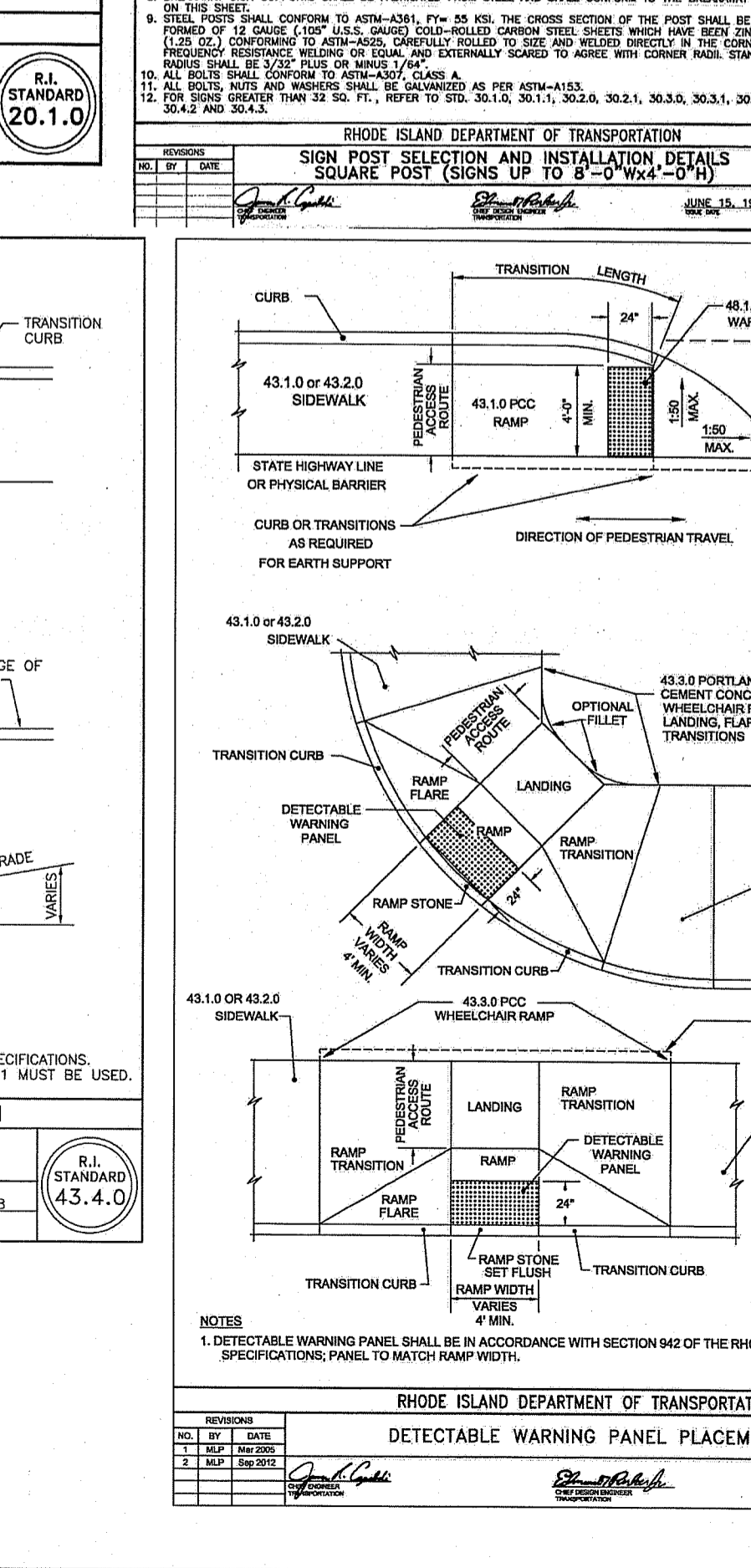
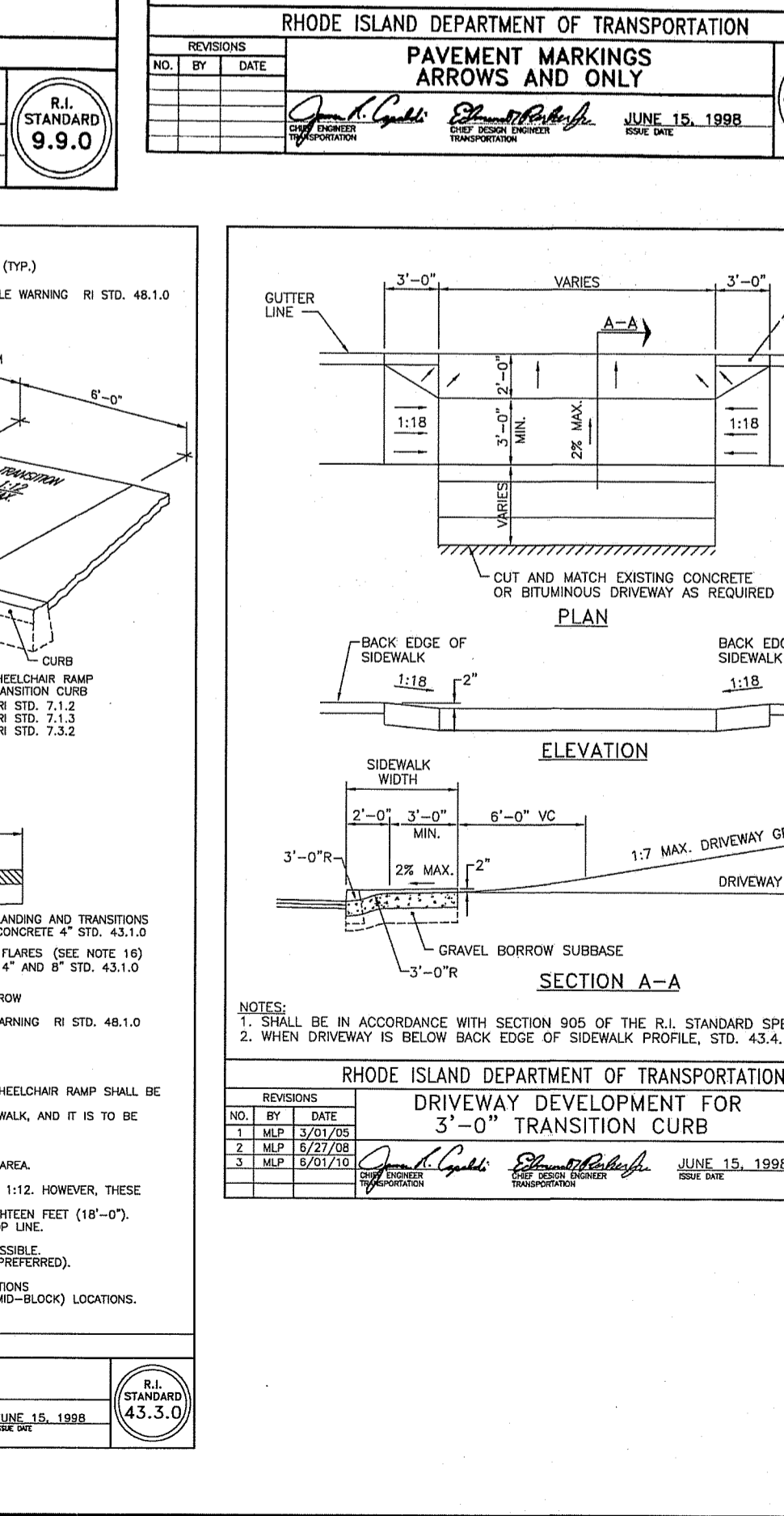
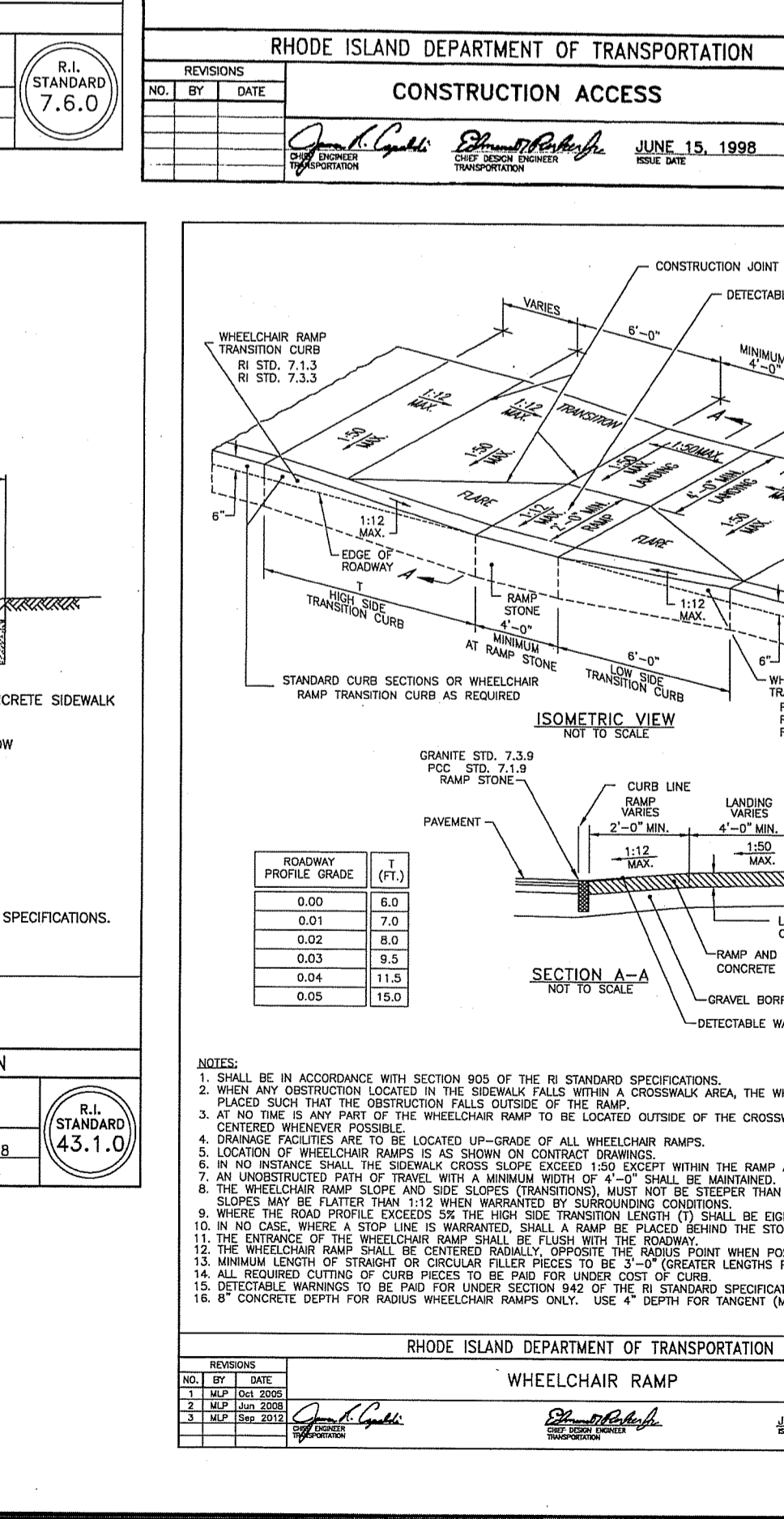
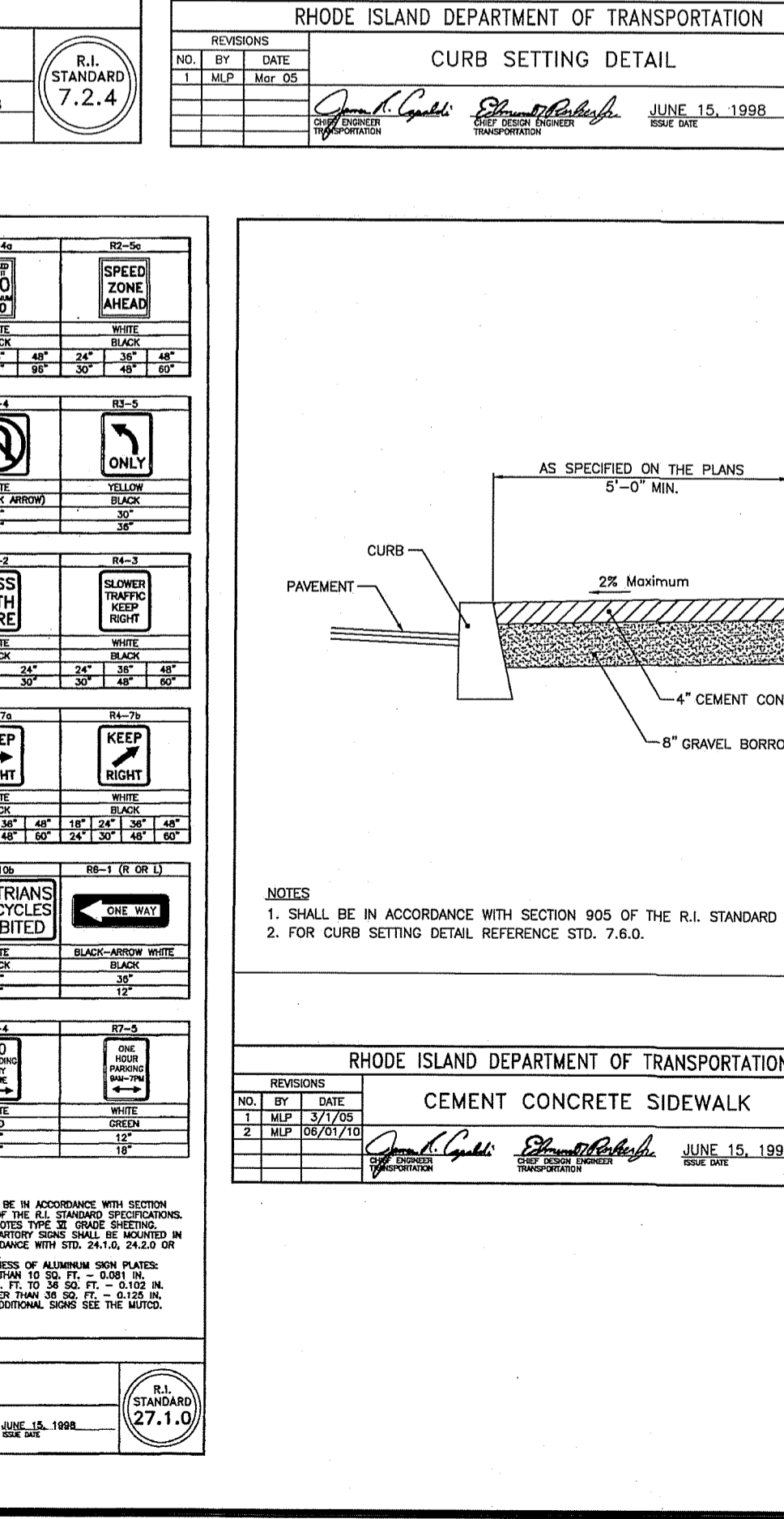
NOT FOR CONSTRUCTION,
UNLESS APPROVED BY
RIDEM & RIDOT

RIDOT PAP PLAN

SHEET 6 OF 12



LEGEND	STOP	NO LEFT TURN	NO RIGHT TURN	NO U-TURN	NO THROUGH TRAFFIC	NO THROUGH TRAFFIC	NO THROUGH TRAFFIC	NO THROUGH TRAFFIC	NO THROUGH TRAFFIC
SPR NUMBER	RS-1	RS-2	RS-3	RS-4	RS-5	RS-6	RS-7	RS-8	RS-9
COLOR	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE
TEXT	STOP	NO LEFT TURN	NO RIGHT TURN	NO U-TURN	NO THROUGH TRAFFIC	NO THROUGH TRAFFIC	NO THROUGH TRAFFIC	NO THROUGH TRAFFIC	NO THROUGH TRAFFIC
SPR NUMBER	RS-10	RS-11	RS-12	RS-13	RS-14	RS-15	RS-16	RS-17	RS-18
COLOR	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE
TEXT	NO THROUGH TRAFFIC	NO THROUGH TRAFFIC	NO THROUGH TRAFFIC	NO THROUGH TRAFFIC	NO THROUGH TRAFFIC	NO THROUGH TRAFFIC	NO THROUGH TRAFFIC	NO THROUGH TRAFFIC	NO THROUGH TRAFFIC
SPR NUMBER	RS-19	RS-20	RS-21	RS-22	RS-23	RS-24	RS-25	RS-26	RS-27
COLOR	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE
TEXT	NO THROUGH TRAFFIC	NO THROUGH TRAFFIC	NO THROUGH TRAFFIC	NO THROUGH TRAFFIC	NO THROUGH TRAFFIC	NO THROUGH TRAFFIC	NO THROUGH TRAFFIC	NO THROUGH TRAFFIC	NO THROUGH TRAFFIC



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 3 2019 FILE # 19-0078
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

John A. Casali

JCE
JOE CASALI ENGINEERING, INC.
CIVIL - SITE DEVELOPMENT - TRANSPORTATION
300 POST ROAD, WAKEFIELD, RI 02888
DRAINAGE: 300 POST ROAD, WAKEFIELD, RI 02888
(401) 844-1300 (401) 844-1313 FAX: WWW.JCECALL.COM

JOSEPH A. CASALI
No. 1250
REGISTERED PROFESSIONAL ENGINEER
CIVIL
4.16.19

PROPOSED 2,280 SF COMMERCIAL CREDIT UNION
PAWTUCKET CREDIT UNION
84 OLD TOWER HILL ROAD
WAKEFIELD, RHODE ISLAND
AP 57-2, PORTION OF LOT 68

PROPERTY OWNER
BCPSTOR DEVELOPMENT II, LLC
C/O RICHARD TASCIA
1 CUSTOM HOUSE ST., SUITE 4
PROVIDENCE, RI 02903
PHONE: 786-564-6263

APPLICANT
PAWTUCKET CREDIT UNION
1200 CENTRAL AVENUE
PAWTUCKET, RI 02861
401-722-2212

REVISIONS:
NO. DATE DESCRIPTION
1. 4/4/2019 RIDEM/RIDOT RTC
2. 4/16/2019 RIDEM RTC

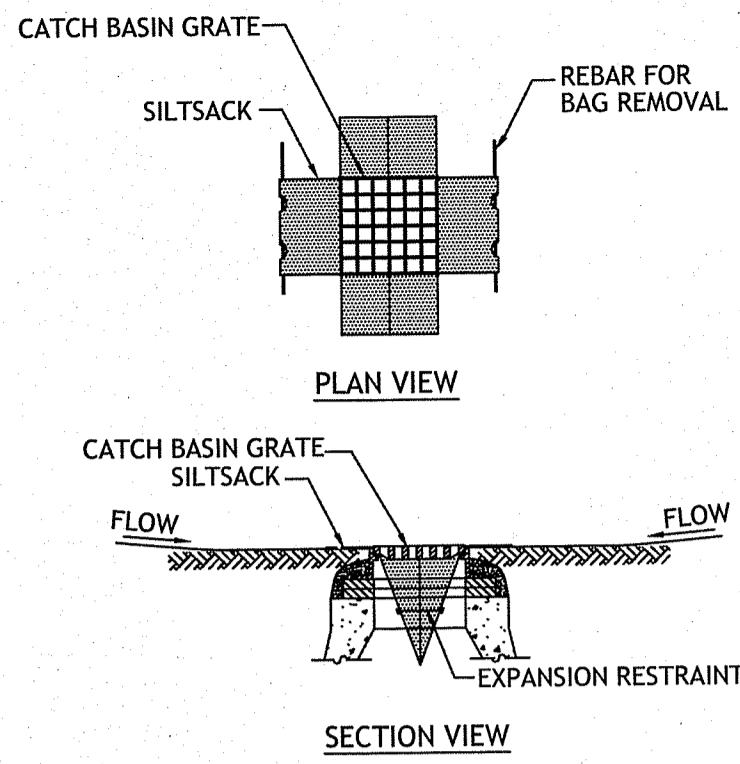
DESIGNED BY: WMLR
DRAWN BY: SD/SEP
CHECKED BY: JAC
DATE: JAN. 2019
PROJECT NO: 05-57K

NOT FOR CONSTRUCTION,
UNLESS APPROVED BY
RIDEM & RIDOT

RI STANDARD DETAILS

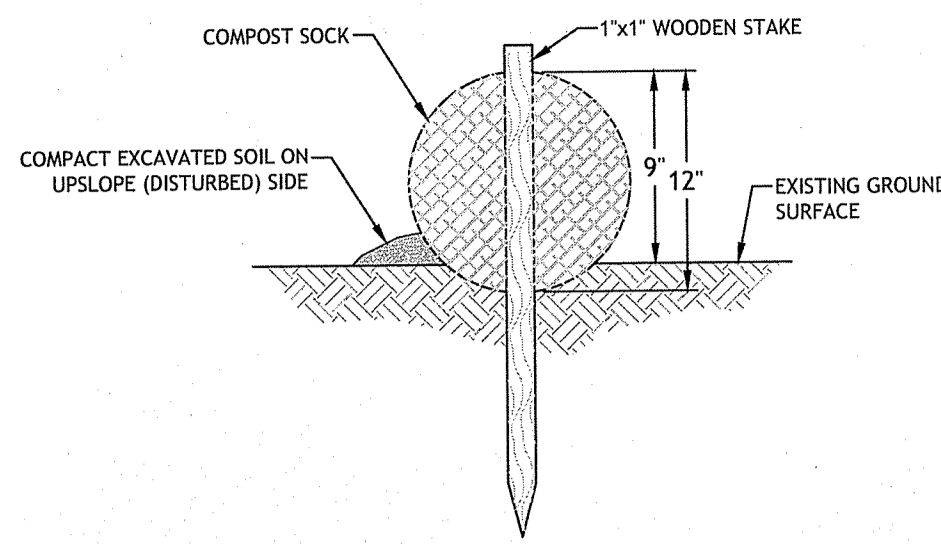
SHEET 7 OF 12

00-57 PCU05-57K Old Tower Hill Road/CD/PCU Wakefield [Preliminary] 05.dwg Apr. 16, 2019 4:34pm



Notes:
1. INSTALL SILTSACK IN SELECTED CATCH BASINS IDENTIFIED ON THE EXISTING CONDITIONS AND SITE PREPARATION PLAN BEFORE COMMENCING WORK.
GRATE TO BE PLACED OVER SILTSACK. SILTSACK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS AND CLEANING OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED. MAINTAIN UNTIL UPSTREAM AREAS HAVE BEEN PERMANENTLY STABILIZED.

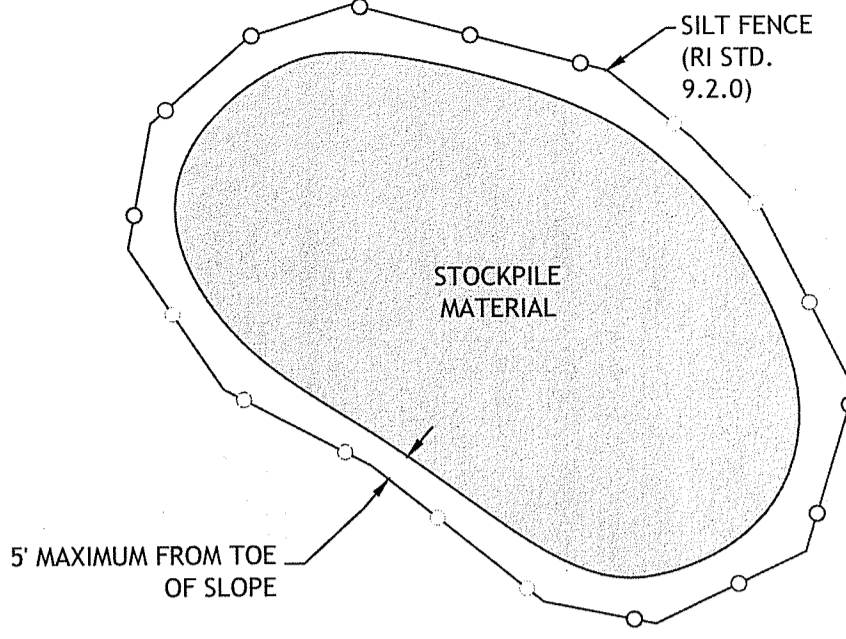
1 SILT SACK SEDIMENT TRAP
NOT TO SCALE



NOTES:
1. BEGIN WATTLE INSTALLATION BY EXCAVATING A 2 TO 3-INCH-DEEP BY 9" WIDE TRENCH ALONG THE CONTOUR OF THE SLOPE OR ALONG THE EXISTING GROUND SURFACE. EXCAVATED SOIL SHOULD BE PLACED UP-SLOPE OR ON THE DISTURBED SIDE OF THE ANCHOR TRENCH.
2. PLACE WATTLE IN THE TRENCH SUCH THAT IT CONTOURS TO THE EXISTING SOIL SURFACE. COMPACT SOIL FROM THE EXCAVATED TRENCH AGAINST THE WATTLE ON THE UP-SLOPE OR DISTURBED SIDE. ADJACENT WATTLES SHOULD TIGHTLY ABUT.
3. SECURE WATTLE WITH 18 TO 24-INCH-LONG STAKES. INSTALL AN ADDITIONAL STAKE AT EACH END OF THE WATTLE. STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE WATTLE LEAVING AT LEAST 2 TO 3 INCHES OF STAKE EXTENDING ABOVE. THE STAKES SHOULD BE DRIVEN PERPENDICULAR TO THE SLOPE FACE OR GROUND SURFACE.

2 COMPOST SOCK
NOT TO SCALE

NOTE TO CONTRACTOR:
CONTRACTOR TO COORDINATE WITH OWNER ON LOCATION OF CONSTRUCTION TRAILER AND STAGING AREAS

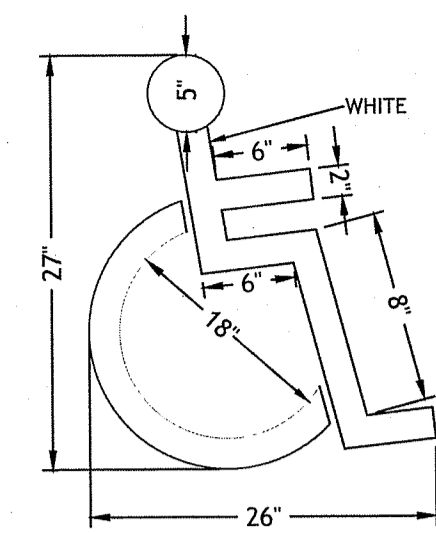


3 STOCKPILE DETAIL
NOT TO SCALE



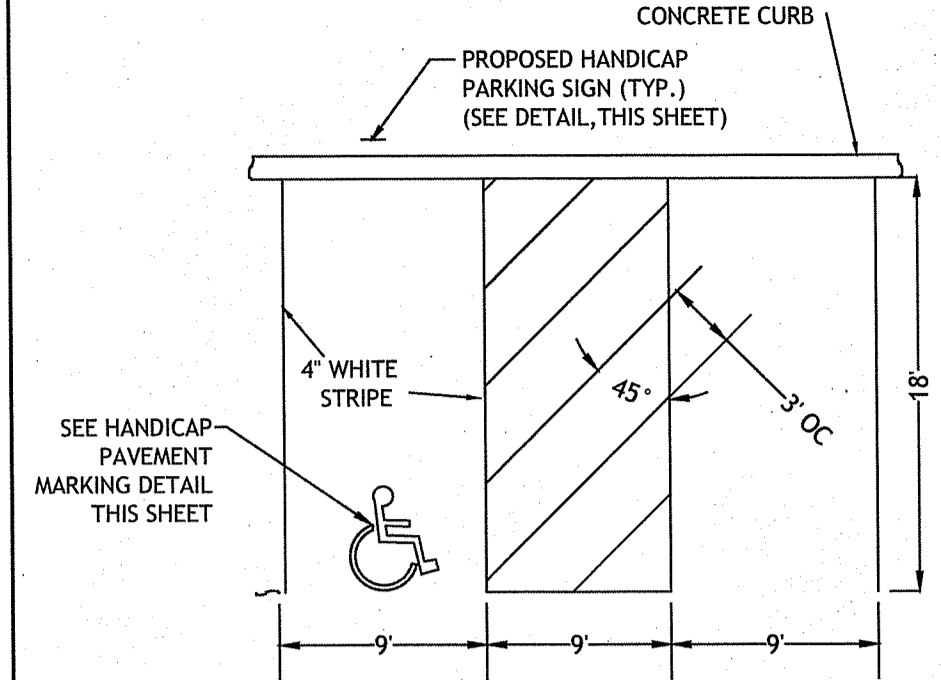
NOTE:
SIGNS ARE TO CONFORM WITH THE MOST RECENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
* VAN ACCESSIBLE SIGNS FOR SPACES ADJACENT TO THE STRIPED ISLE.
SIGN NOTES:
1. SIGN POSTS SHALL BE GALVANIZED STEEL U-CHANNEL (3 1/2" WIDE-MIN) AND INSTALLED IN CONFORMANCE TO M.U.T.C.D. AND RHODE ISLAND STANDARD SPECIFICATIONS.
2. POSTS SHALL BE DRIVEN TO A DEPTH OF 4 FEET (MIN).
3. THE EDGE OF THE SIGN SHALL BE 18" FROM THE FACE OF THE CURB.
4. WITHIN SIDEWALK LOCATIONS THE SIGN POST WILL BE INSTALLED WITHIN A 8'X8'X6" SQUARE BOX FORM.

4 HANDICAP PARKING SIGNS
NOT TO SCALE

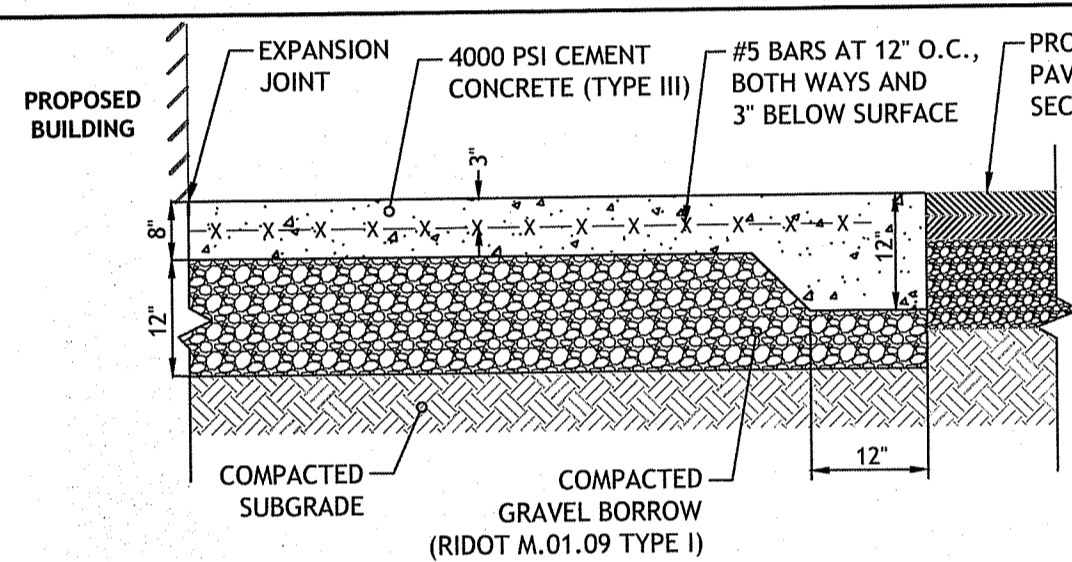


NOTE:
1. ALL HANDICAP PARKING AND SIGNAGE SHALL BE IN ACCORDANCE WITH THE RHODE ISLAND STATE BUILDING CODE.

5 HANDICAP PAVEMENT MARKING
NOT TO SCALE

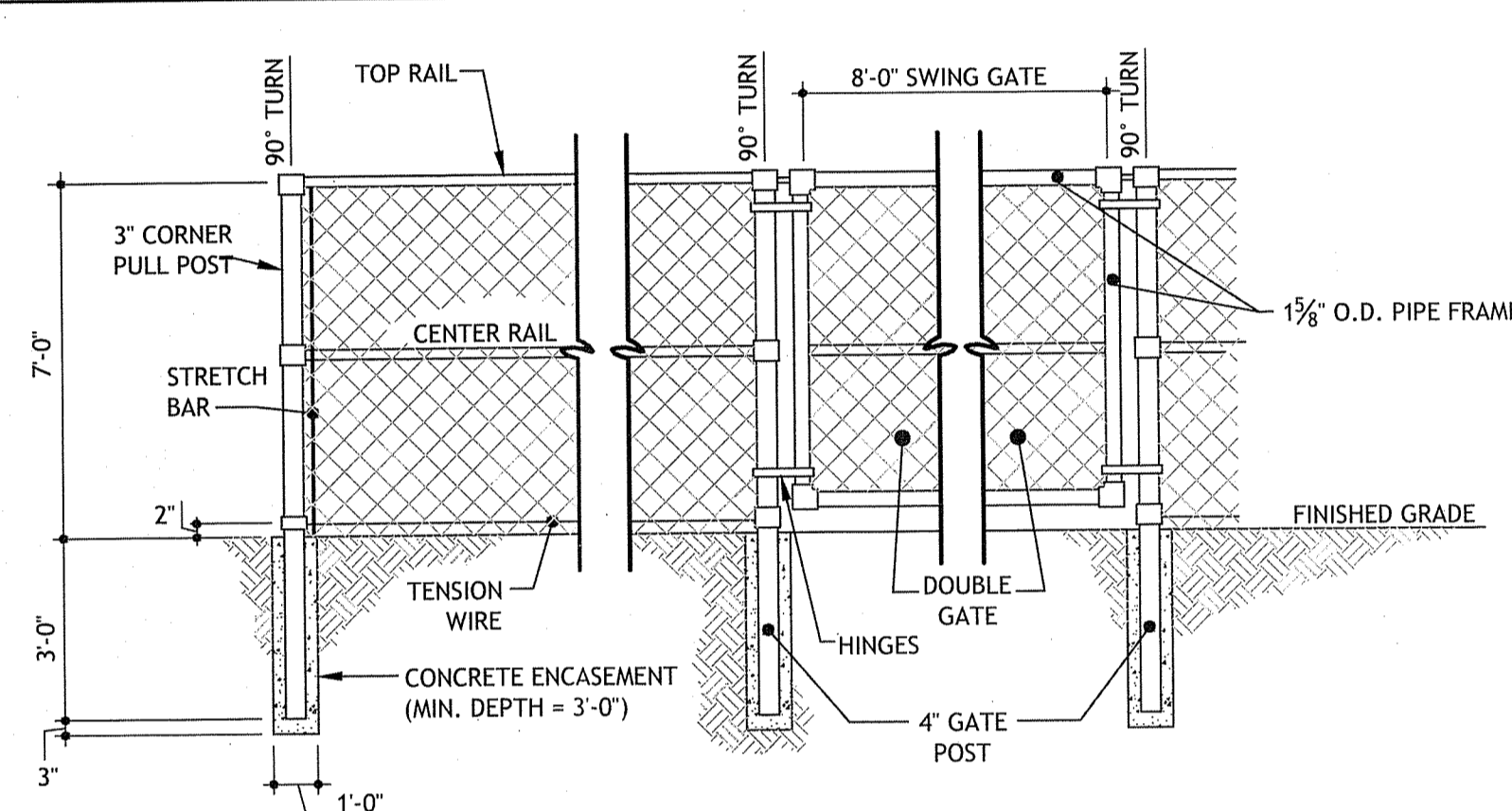


6 HANDICAP PARKING STALLS
NOT TO SCALE



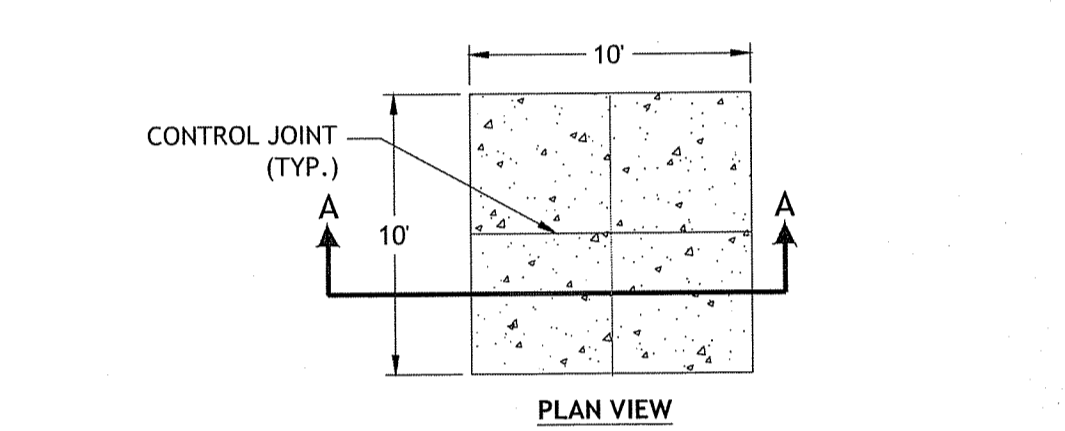
NOTE
1. CONTROL JOINTS SHALL BE CONSTRUCTED EVERY 8 FEET.
2. EVERY FOURTH CONTROL JOINT SHALL BE AN EXPANSION JOINT.

7 REINFORCED CEMENT CONCRETE PAD
NOT TO SCALE

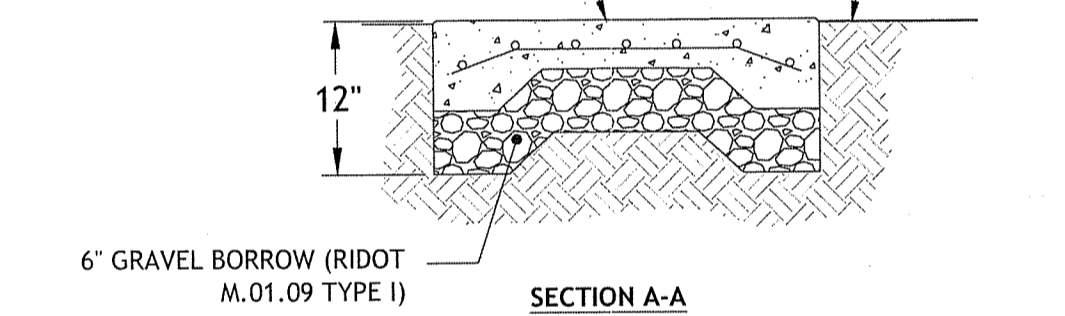


NOTES:
1. DOUBLE GATE SHALL HAVE A LOCKING MECHANISM, DROP ROD, AND TRUSS ROD.
2. ALL FENCING MATERIALS SHALL BE IN ACCORDANCE WITH SECTION 902 OF THE RHODE ISLAND STANDARD SPECIFICATIONS.
3. FENCE MESH TO BE SECURED TO TOP RAIL AND CORNER POSTS USING TIE WIRES SPACED 12" ON CENTER.
4. PRIVACY SLATS TO BE INSTALLED AT THE COMPLETION OF CONSTRUCTION. PRIVACY SLATS SHALL BE GREEN AND SHALL BE BOTTOM-LOCKING AS MANUFACTURED BY PDS FENCE PRODUCTS INC. OR APPROVED EQUAL.

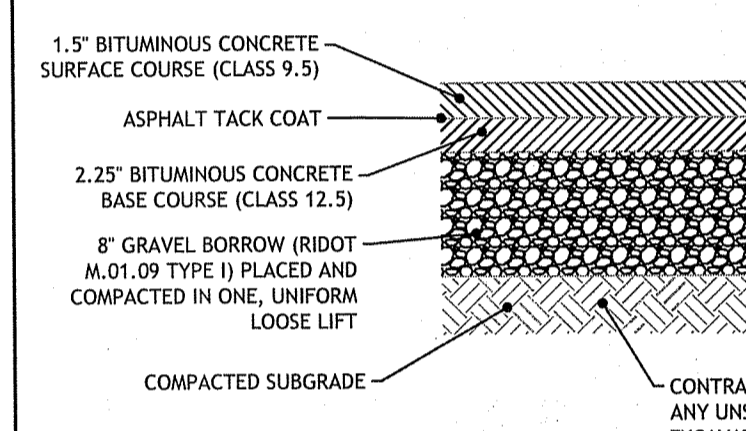
8 CHAIN-LINK FENCE DETAIL
NOT TO SCALE



6" CONCRETE SLAB (4,000 PSI) WITH HAUNCH, REINFORCED WITH 6 X 6 W 2, 1 X W 2, 1 W.W.F.



9 DUMPSTER PAD DETAIL
NOT TO SCALE



NOTES:
1. IF UNSUITABLE MATERIALS ARE ENCOUNTERED AT SUBGRADE ELEVATION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER. THE DEPTH OF UNSUITABLE MATERIAL TO BE REMOVED WILL BE DETERMINED IN THE FIELD. THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE THE UNSUITABLE MATERIALS AND REPLACE WITH SUITABLE MATERIAL APPROVED BY THE ENGINEER.
2. MINIMUM COMPACTION FOR GRAVEL BORROW SUB-BASE AND SUBGRADE: 95% MODIFIED PROCTOR.

10 BITUMINOUS CONCRETE PAVEMENT
NOT TO SCALE

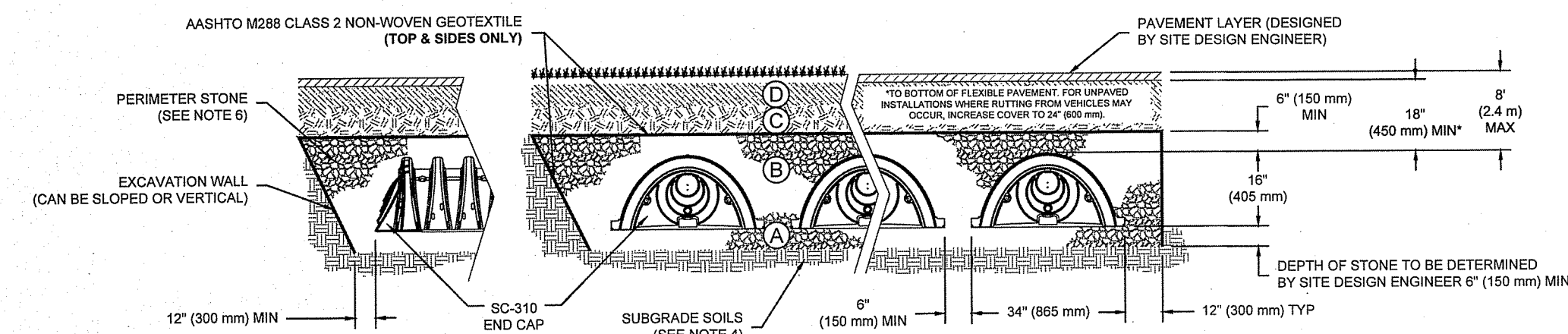
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
AS APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 3 2019 FILE # 19-0023
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Test Pit Location: See Plan	Date Start / Finish: 11/15/2018	TH-1
Ground Surface Elevation: 10.00	Conditions: Overcast, 50 deg. F	
Excavator Type: Takeuchi TB-200 Mini-Excavator	Excavator Reach: 20.00	
Operator: Urban Building Co./Shore Line Excavation	JCE Rep.: Daniel B. Dececco (RI P.E. No. 10150)	
Depth (ft)	Sample Type/No.	Remarks
0	0-3"	ASPHALT
1	3-20"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
2	20-28"	SILTY SAND (SM) - 60% fine to medium sand, 20% nonplastic fines, 20% fine to coarse gravel, dark brown, dry, (heavy sand), FILL.
3	28-32"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
4	32-40"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
5	40-48"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
6	48-56"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
7	56-64"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
8	64-72"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
9	72-80"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
10	80-88"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
11	88-96"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
12	96-104"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
13	104-112"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
14	112-120"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
15	120-128"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
16	128-136"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
17	136-144"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
18	144-152"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
19	152-160"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
20	160-168"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
21	168-176"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
22	176-184"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
23	184-192"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
24	192-200"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
25	200-208"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
26	208-216"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
27	216-224"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
28	224-232"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
29	232-240"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
30	240-248"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
31	248-256"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
32	256-264"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
33	264-272"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
34	272-280"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
35	280-288"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
36	288-296"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
37	296-304"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
38	304-312"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
39	312-320"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
40	320-328"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
41	328-336"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
42	336-344"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
43	344-352"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
44	352-360"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
45	360-368"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
46	368-376"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
47	376-384"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
48	384-392"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
49	392-400"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
50	400-408"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
51	408-416"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
52	416-424"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
53	424-432"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
54	432-440"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
55	440-448"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
56	448-456"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
57	456-464"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
58	464-472"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
59	472-480"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
60	480-488"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
61	488-496"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
62	496-504"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
63	504-512"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
64	512-520"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
65	520-528"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
66	528-536"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
67	536-544"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
68	544-552"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
69	552-560"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
70	560-568"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
71	568-576"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
72	576-584"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
73	584-592"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
74	592-600"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
75	600-608"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
76	608-616"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
77	616-624"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
78	624-632"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
79	632-640"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
80	640-648"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
81	648-656"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
82	656-664"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
83	664-672"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
84	672-680"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
85	680-688"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
86	688-696"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
87	696-704"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
88	704-712"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
89	712-720"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
90	720-728"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
91	728-736"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
92	736-744"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
93	744-752"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
94	752-760"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
95	760-768"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
96	768-776"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
97	776-784"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
98	784-792"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
99	792-800"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
100	800-808"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
101	808-816"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
102	816-824"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
103	824-832"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
104	832-840"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
105	840-848"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
106	848-856"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
107	856-864"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
108	864-872"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
109	872-880"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
110	880-888"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
111	888-896"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
112	896-904"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
113	904-912"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
114	912-920"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown, dry, (heavy sand), FILL.
115	920-928"	SILTY SAND WITH GRAVEL (SM) - 50% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines, brown,

ACCEPTABLE FILL MATERIALS: STORMTECH SC-310 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE (E LAYER) TO 1" (25 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'C' LAYER.	AASHTO M145* A-1, A-2.4, A-3 OR AASHTO M33* 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 LB (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 LB (89 kN).
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, WASHED, CRUSHED, ANGULAR STONE 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, WASHED, CRUSHED, ANGULAR STONE AASHTO M33* 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.**

PLEASE NOTE:
 1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M33) STONE".
 2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) MAX LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR. FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.



NOTES:

- SC-310 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS", OR ASTM F2922 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- SC-310 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- ONCE LAYER 'C' IS PLACED, ANY SOIL MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

14 STORMTECH SC-310 CROSS SECTION DETAIL
NOT TO SCALE

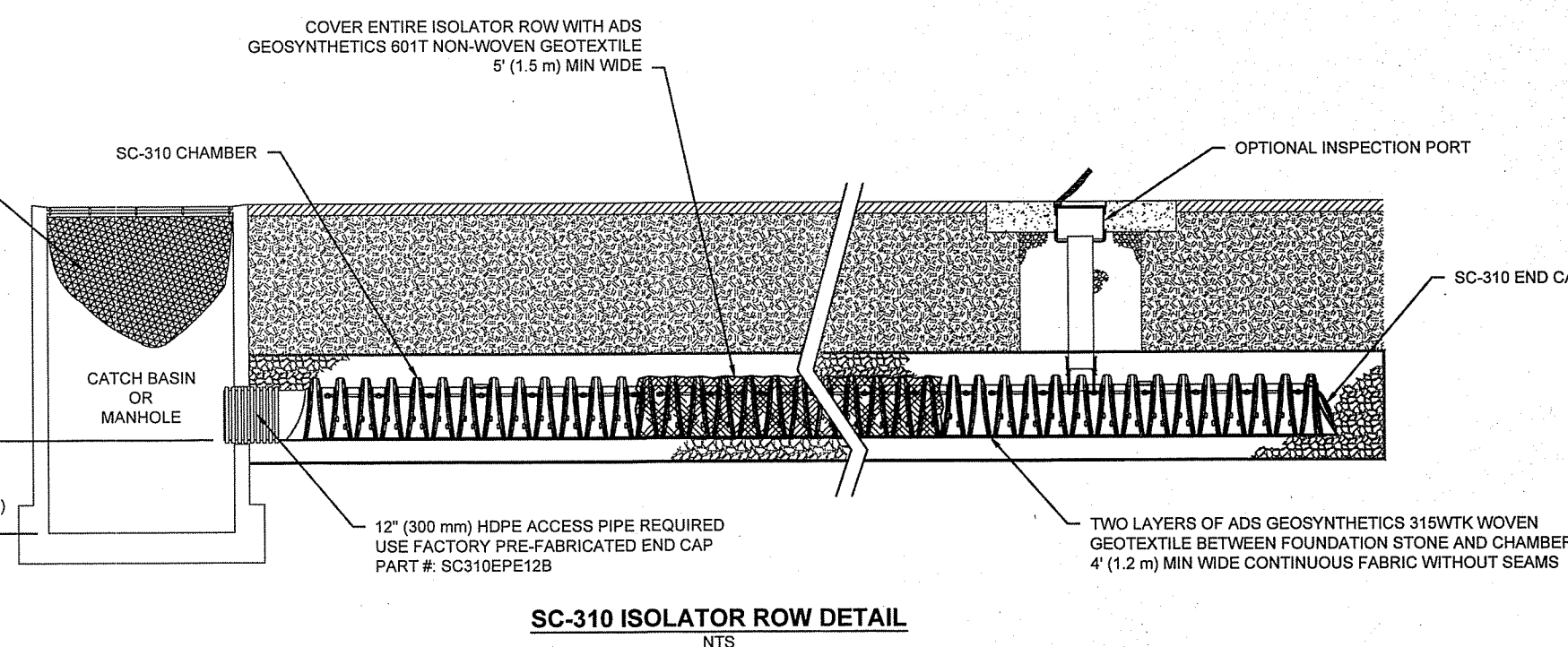
STANDARD CROSS SECTION
 SC-310
 DATE: 11/18/14
 DRAWN: JLM
 CHECKED: JLM
 PROJECT #:
 SHEET 1 OF 1

INSPECTION & MAINTENANCE

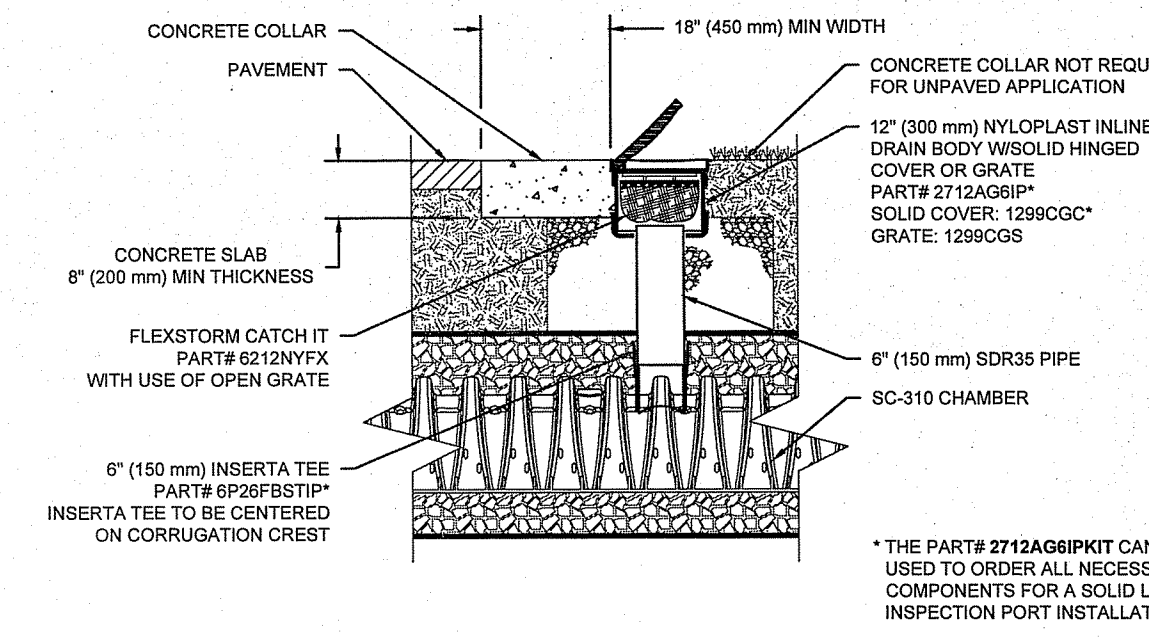
- STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT
 A. INSPECTION PORTS (IF PRESENT)
 A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
 A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
 A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
 A.4. LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
 A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
 B. ALL ISOLATOR ROWS
 B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW
 B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE
 B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
 B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS
 A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
 B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLOW WATER IS CLEAN
 C. VACUUM STRUCTURE SUMP AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS, RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

- INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
- CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

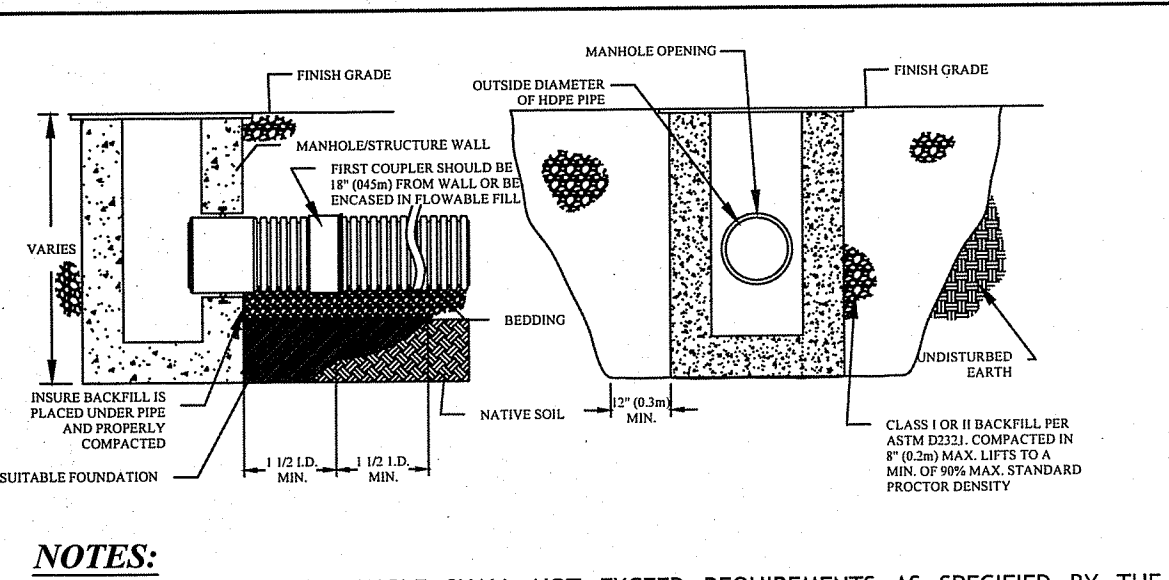


SC-310 ISOLATOR ROW DETAIL
NTS



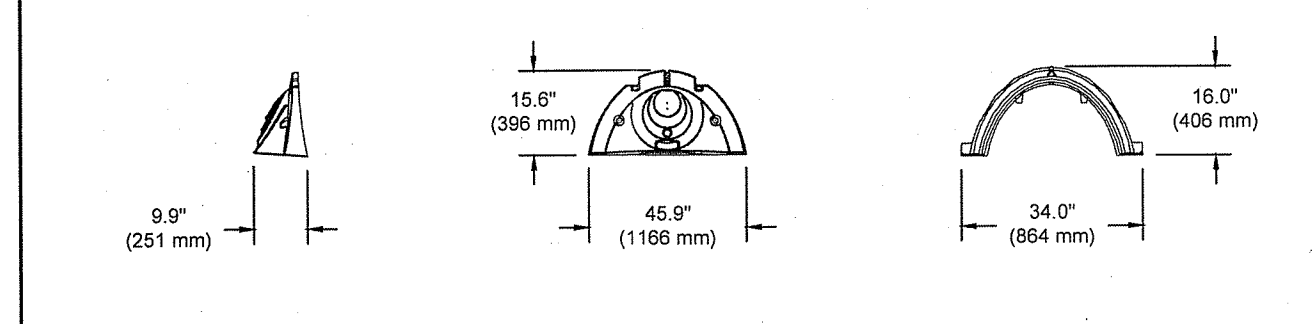
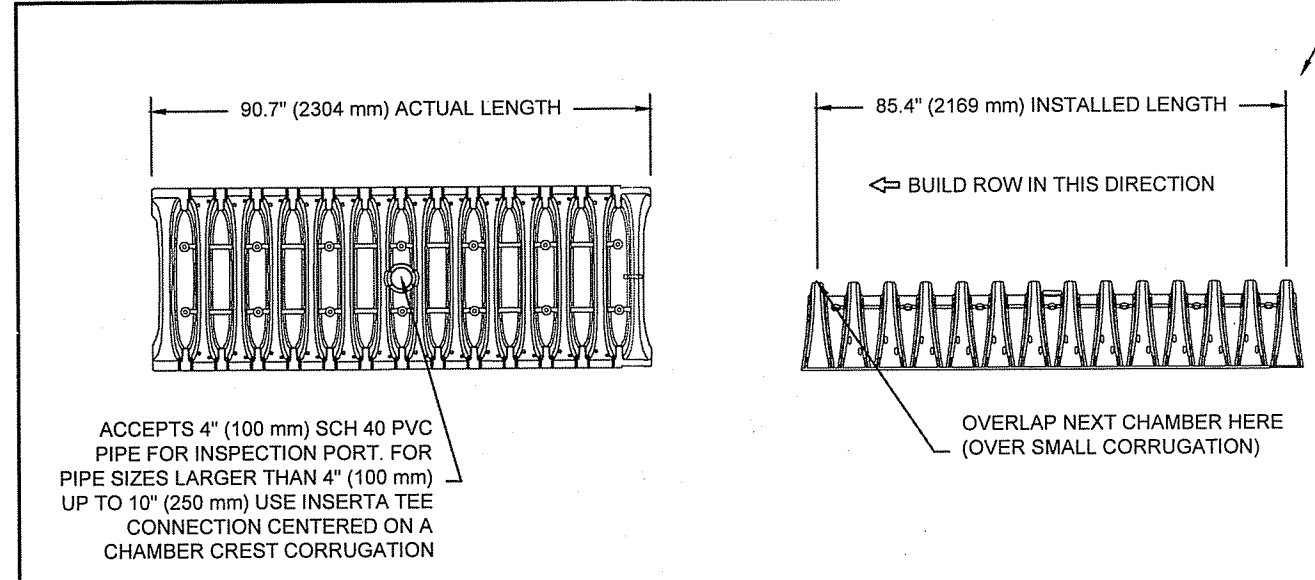
SC-310 6" INSPECTION PORT DETAIL
NTS

ISOLATOR ROW DETAILS
 SC-310
 DATE: 03/09/17
 DRAWN: JLM
 CHECKED: JLM
 PROJECT #:
 SHEET 1 OF 1



- NOTES:**
- MAXIMUM INSERTION ANGLE SHALL NOT EXCEED REQUIREMENTS AS SPECIFIED BY THE MANUFACTURER.
 - SEE STANDARD DETAILS STD-202 (A-B) THROUGH STD-204 (A-E) FOR STRUCTURE CONNECTIONS, PRODUCT INFORMATION AND DIMENSIONAL PIPE DATA. INSTALLATION RECOMMENDATIONS ARE ALSO SPECIFIED IN TECHNICAL NOTE 5.04: HDPE CONNECTIONS TO MANHOLES AND STRUCTURES.
 - PERFORMANCE HIGHLY DEPENDENT ON INSTALLATION. CONTRACTOR MUST INSURE MANHOLE GASKET IS UNIFORMLY SEATED AROUND STRUCTURE ADAPTER. EXTRA PRECAUTIONS MUST BE TAKEN TO PREVENT DIFFERENTIAL SETTLEMENT BETWEEN THE PIPE AND MANHOLE.

16 STRUCTURE CONNECTION INSTALLATION DETAIL
NOT TO SCALE



17 SC-310 TECHNICAL SPECIFICATION
NOT TO SCALE

NOMINAL CHAMBER SPECIFICATIONS
 SIZE (W X H X INSTALLED LENGTH)
 CHAMBER STORAGE
 MINIMUM INSTALLED STORAGE*
 WEIGHT

PART #	STUB	A	B	C
SC310EPE06T/SC310EPE06BPC	6" (150 mm)	9.6" (244 mm)	5.8" (147 mm)	0.5" (13 mm)
SC310EPE08T/SC310EPE08BPC	8" (200 mm)	11.9" (302 mm)	3.5" (89 mm)	—
SC310EPE10T/SC310EPE10BPC	10" (250 mm)	12.7" (323 mm)	1.4" (36 mm)	0.6" (15 mm)
SC310EPE12B/SC310EPE12BPC	12" (300 mm)	13.5" (343 mm)	—	0.7" (18 mm)

*ASSUMES 6" (152 mm) ABOVE, BELOW, AND BETWEEN CHAMBERS
 STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
 STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"

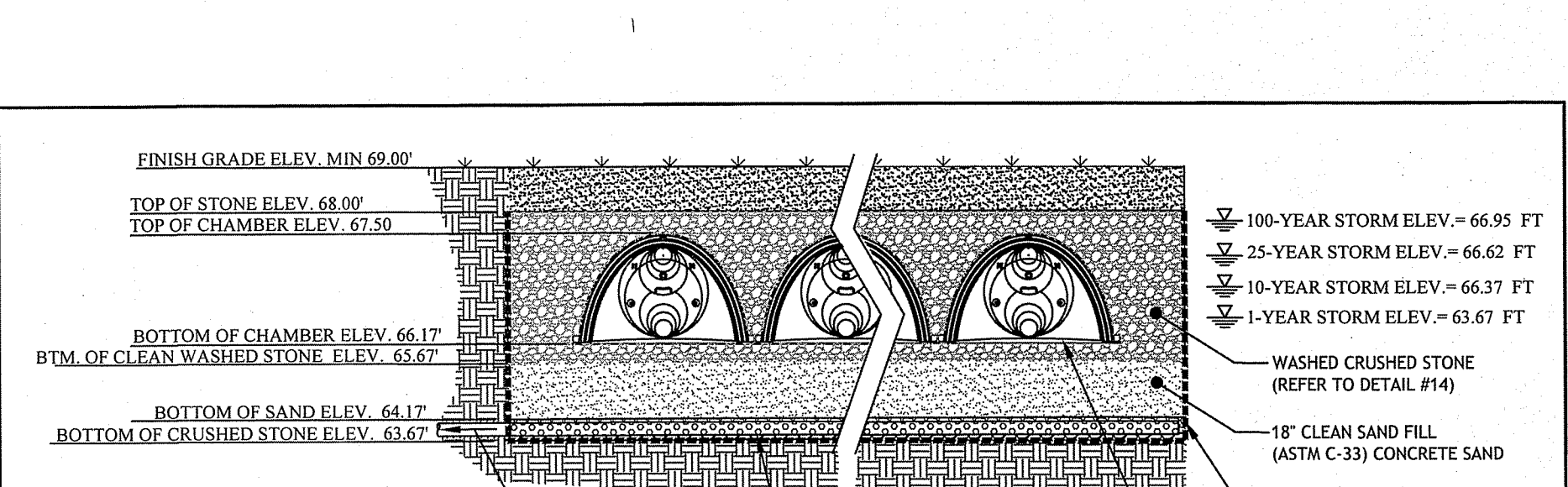
ALL STUBS, EXCEPT FOR THE SC310EPE12B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

* FOR THE SC310EPE12B THE 12" (300 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 0.25" (6 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL.

- NOTES FOR THE INSTALLATION OF THE SC-310 SYSTEM**
- STORMTECH SC-310 & SC-740 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
 - STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740DC-780 CONSTRUCTION GUIDE".
 - CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
 - STONESHOOTER LOCATED UP OF THE CHAMBER BED.
 - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
 - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
 - THE FOUNDATION STONE SHALL BE LEVELLED AND COMPACTED PRIOR TO PLACING CHAMBERS.
 - JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
 - MAINTAIN MINIMUM - 6" SPACING BETWEEN THE CHAMBER ROWS.
 - EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4"-2".
 - THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
 - ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

18 UIC #1 INSTALLATION ELEVATION DETAIL
NOT TO SCALE



- NOTES:**
- UNDERGROUND INFILTRATION CHAMBER SHALL BE INSTALLED IN STRICT CONFORMANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

19 PEA GRAVEL DIAPHRAGM DETAIL
NOT TO SCALE

- STORMTECH GENERAL NOTES:**
- STORMTECH LLC ("STORMTECH") REQUIRES INSTALLING CONTRACTORS TO USE AND UNDERSTAND STORMTECH'S LATEST INSTALLATION INSTRUCTIONS PRIOR TO BEGINNING SYSTEM INSTALLATION.
 - OUR TECHNICAL SERVICES DEPARTMENT OFFERS INSTALLATION CONSULTATIONS TO INSTALLING CONTRACTORS. CONTACT OUR TECHNICAL SERVICES REPRESENTATIVE AT LEAST 30 DAYS PRIOR TO SYSTEM INSTALLATION TO ARRANGE A PRE-INSTALLATION CONSULTATION. OUR REPRESENTATIVES CAN THEN ANSWER QUESTIONS OR ADDRESS COMMENTS ON THE STORMTECH CHAMBER SYSTEM AND INFORM THE INSTALLING CONTRACTOR OF THE MINIMUM INSTALLATION REQUIREMENTS BEFORE BEGINNING THE SYSTEMS CONSTRUCTION. CALL 1-888-892-2694 TO SPEAK TO A TECHNICAL SERVICE REPRESENTATIVE OR VISIT WWW.STORMTECH.COM TO RECEIVE A COPY OF OUR INSTALLATION INSTRUCTIONS.
 - STORMTECH'S REQUIREMENTS FOR SYSTEMS WITH PAVEMENT DESIGN (ASPHALT, CONCRETE PAVERS, ETC.): MINIMUM COVER IS 18 INCHES NOT INCLUDING PAVEMENT; MAXIMUM COVER IS 96 INCHES INCLUDING PAVEMENT. FOR INSTALLATIONS THAT DO NOT INCLUDE PAVEMENT, WHERE RUTTING FROM VEHICLES MAY OCCUR, MINIMUM REQUIRED COVER IS 24 INCHES, MAXIMUM COVER IS 96 INCHES.
 - THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE DESIGN ENGINEER.
 - AASHTO M288 CLASS 2 NON-WOVEN GEOTEXTILE (FILTER FABRIC) MUST BE USED AS INDICATED IN THE PROJECT PLANS.
 - STONE PLACEMENT BETWEEN CHAMBERS ROWS AND AROUND PERIMETER MUST FOLLOW INSTRUCTIONS AS INDICATED IN THE MOST CURRENT VERSION OF STORMTECH'S INSTALLATION INSTRUCTIONS.
 - BACKFILLING OVER THE CHAMBERS MUST FOLLOW REQUIREMENTS AS INDICATED IN THE MOST CURRENT VERSION OF STORMTECH'S INSTALLATION INSTRUCTIONS.
 - THE CONTRACTOR MUST REFER TO STORMTECH'S INSTALLATION INSTRUCTIONS FOR A TABLE OF ACCEPTABLE VEHICLE LOADS AT VARIOUS DEPTHS OF COVER. THIS INFORMATION IS ALSO AVAILABLE AT STORMTECH'S WEBSITE: WWW.STORMTECH.COM. THE CONTRACTOR IS RESPONSIBLE FOR PREVENTING VEHICLES THAT EXCEED STORMTECH'S REQUIREMENTS FROM TRAVELING ACROSS OR PARKING OVER THE STORMWATER SYSTEM. TEMPORARY FENCING, WARNING TAPE AND APPROPRIATELY LOCATED SIGNS ARE COMMONLY USED TO PREVENT UNAUTHORIZED VEHICLES FROM ENTERING SENSITIVE CONSTRUCTION AREAS.
 - THE CONTRACTOR MUST APPLY EROSION AND SEDIMENT CONTROL MEASURES TO PROTECT THE STORMWATER SYSTEM DURING ALL PHASES OF SITE CONSTRUCTION PER LOCAL CODES AND DESIGN ENGINEER'S SPECIFICATIONS.
 - STORMTECH PRODUCT WARRANTY IS LIMITED. SEE CURRENT PRODUCT WARRANTY FOR DETAILS. TO ACQUIRE A COPY CALL STORMTECH AT 1-888-892-2694 OR VISIT WWW.STORMTECH.COM.

- STORMWATER CHAMBER SPECIFICATIONS**
- CHAMBERS SHALL BE STORMTECH SC-310 OR SC-740.
 - CHAMBERS SHALL BE MANUFACTURED FROM VIRGIN POLYPROPYLENE OR POLYETHYLENE RESINS.
 - CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
 - THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
 - CHAMBERS SHALL MEET ASTM F2922 (POLYETHYLENE) OR ASTM F2418-16 (POLYPROPYLENE), "STANDARD SPECIFICATION FOR THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
 - CHAMBERS SHALL BE DESIGNED AND ALLOWABLE LOADS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
 - ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. THE CHAMBER MANUFACTURER SHALL SUBMIT THE FOLLOWING UPON REQUEST TO THE SITE DESIGN ENGINEER FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE:
 - A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY AASHTO FOR THERMOPLASTIC PIPE.
 - A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET. THE 50 YEAR CREEP MODULUS DATA SPECIFIED IN ASTM F2418 OR ASTM F2922 MUST BE USED AS PART OF THE AASHTO STRUCTURAL EVALUATION TO VERIFY LONG-TERM PERFORMANCE.
 - A STRUCTURAL CROSS SECTION DETAIL ON WHICH THE STRUCTURAL EVALUATION IS BASED.
 - CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

- NOTES FOR THE INSTALLATION OF THE SC-310 SYSTEM**
- STORMTECH SC-310 & SC-740 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
 - STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740DC-780 CONSTRUCTION GUIDE".
 - CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
 - STONESHOOTER LOCATED UP OF THE CHAMBER BED.
 - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
 - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
 - THE FOUNDATION STONE SHALL BE LEVELLED AND COMPACTED PRIOR TO PLACING CHAMBERS.
 - JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
 - MAINTAIN MINIMUM - 6" SPACING BETWEEN THE CHAMBER ROWS.
 - EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4"-2".
 - THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
 - ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.
- NOTES FOR CONSTRUCTION EQUIPMENT**
- STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740DC-780 CONSTRUCTION GUIDE".
 - THE USE OF CONSTRUCTION EQUIPMENT OVER SC-310 & SC-740 CHAMBERS IS LIMITED:
 - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
 - NO RUBBER TIRE LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740DC-780 CONSTRUCTION GUIDE".
 - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740DC-780 CONSTRUCTION GUIDE".
 - FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.
- USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY. CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED MAY 3 2016 FILE # 19-0078
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

DESIGNED BY: WMLJR
 DRAWN BY: SD/SEP
 CHECKED BY: JAC
 DATE: JAN, 2019
 PROJECT NO: 05-57K

NOT FOR CONSTRUCTION, UNLESS APPROVED BY RIDEM & RIDOT

DETAILS II

SHEET 9 OF 12

JOE CASALI ENGINEERING, INC.
 JOE CASALI
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL
 No. 1250
 A. 16.19

PROPOSED 2,280 SF COMMERCIAL CREDIT UNION
PAWTUCKET CREDIT UNION
 84 OLD TOWER HILL ROAD
 WAKEFIELD, RHODE ISLAND
 AP 57-2, PORTION OF LOT 68

PROPERTY OWNER
 BCPSTOR DEVELOPMENT II, LLC
 C/O RICHARD TASCIA
 1 CUSTOM HOUSE ST., SUITE 4
 PROVIDENCE, RI 02903
 PHONE: 786-564-6263

APPLICANT
 PAWTUCKET CREDIT UNION
 1200 CENTRAL AVENUE
 PAWTUCKET, RI 02861
 401-722-2212

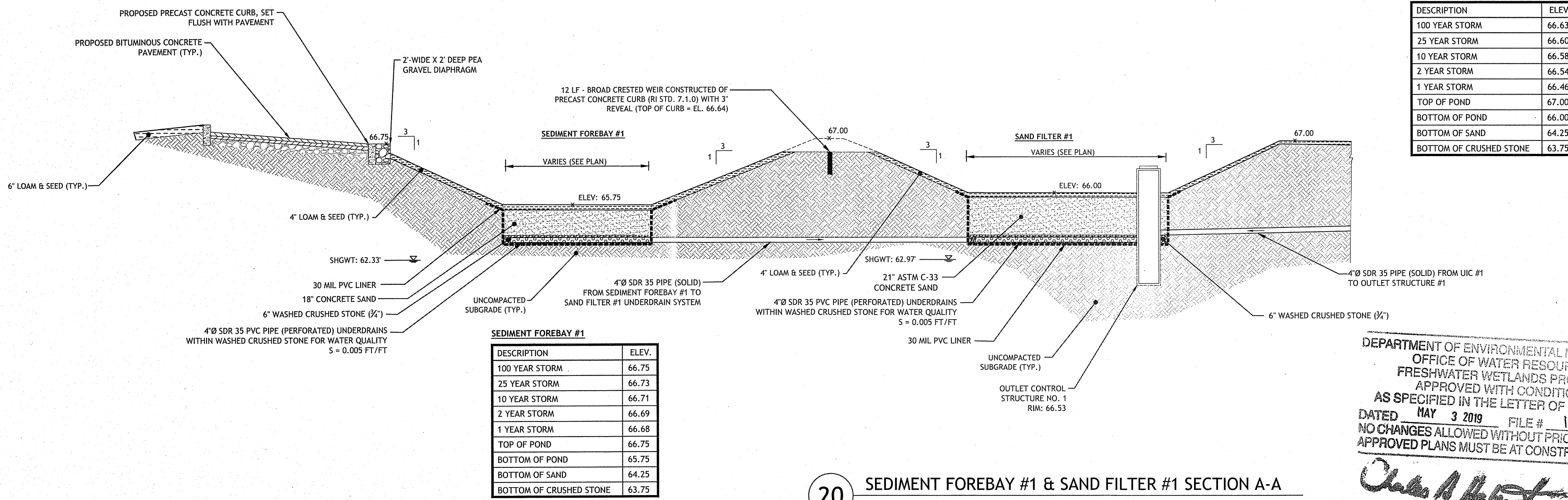
REVISIONS:
 NO. DATE DESCRIPTION
 1 4/4/2019 RIDEM/RIDOT RTC
 2 4/16/2019 RIDEM RTC

DESIGNED BY: WMLJR
 DRAWN BY: SD/SEP
 CHECKED BY: JAC
 DATE: JAN, 2019
 PROJECT NO: 05-57K

NOT FOR CONSTRUCTION, UNLESS APPROVED BY RIDEM & RIDOT

DETAILS II

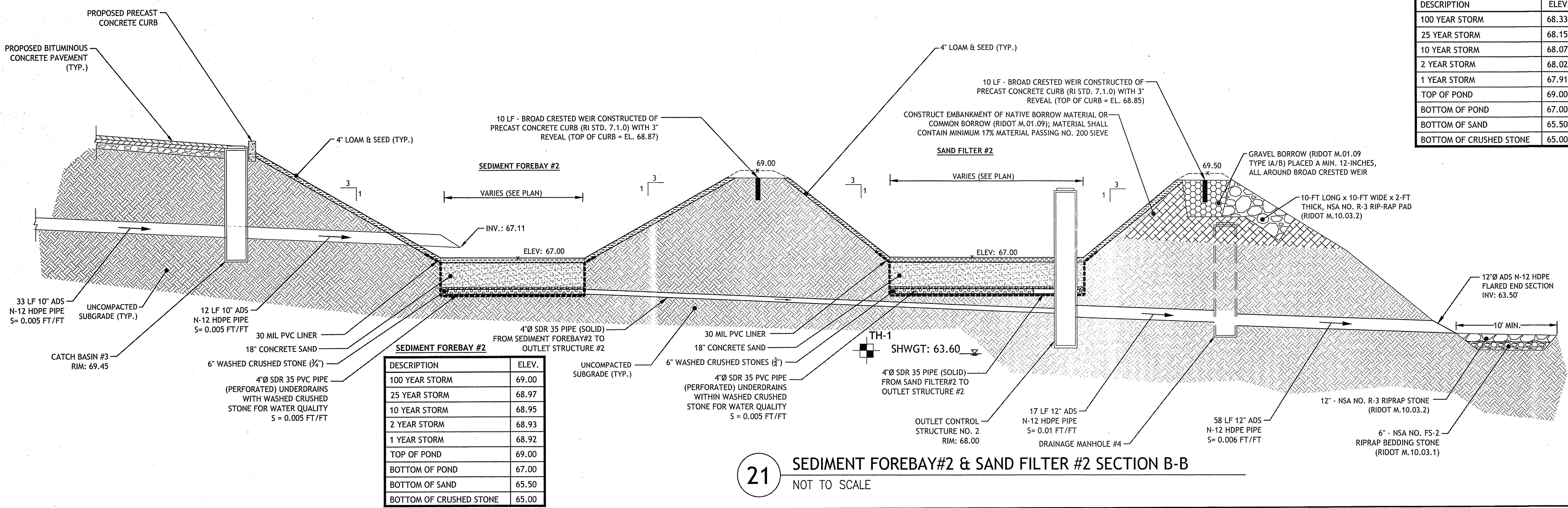
SHEET 9 OF 12



20 SEDIMENT FOREBAY #1 & SAND FILTER #1 SECTION A-A
NOT TO SCALE

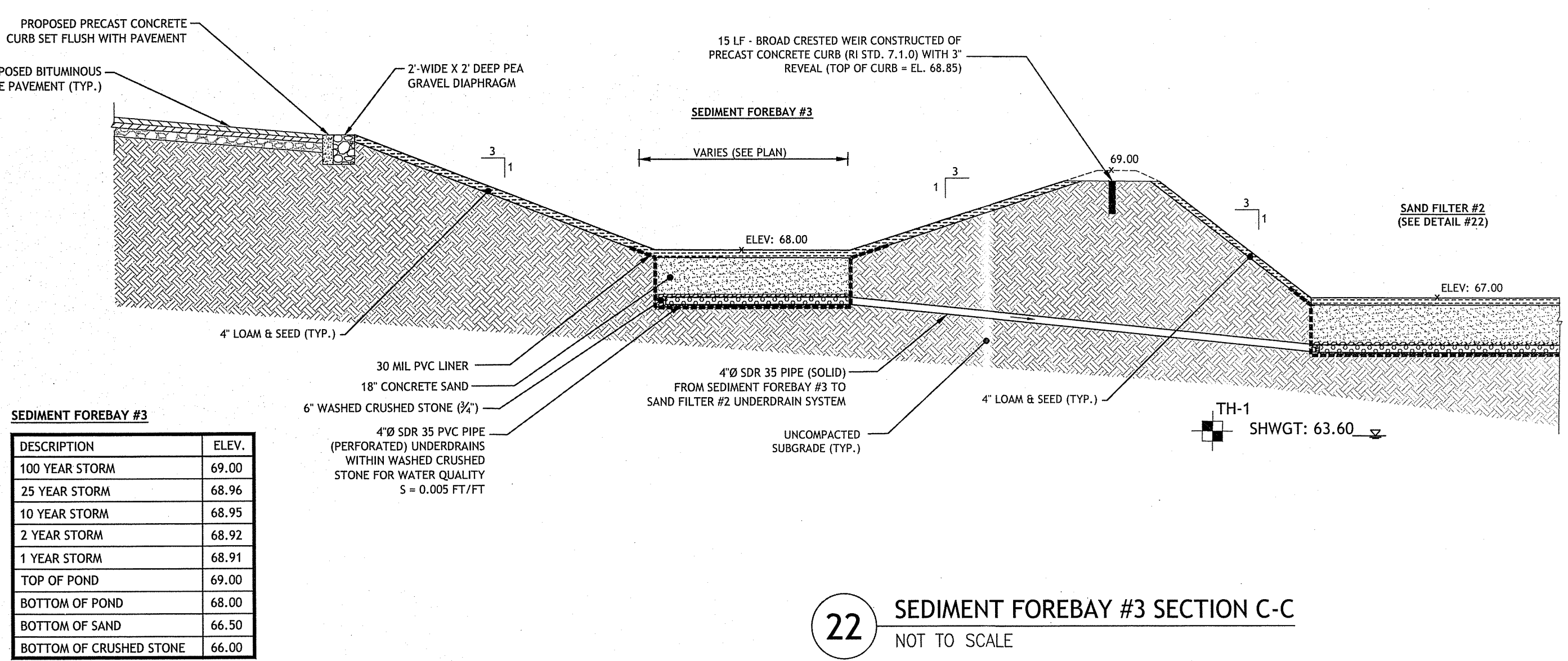
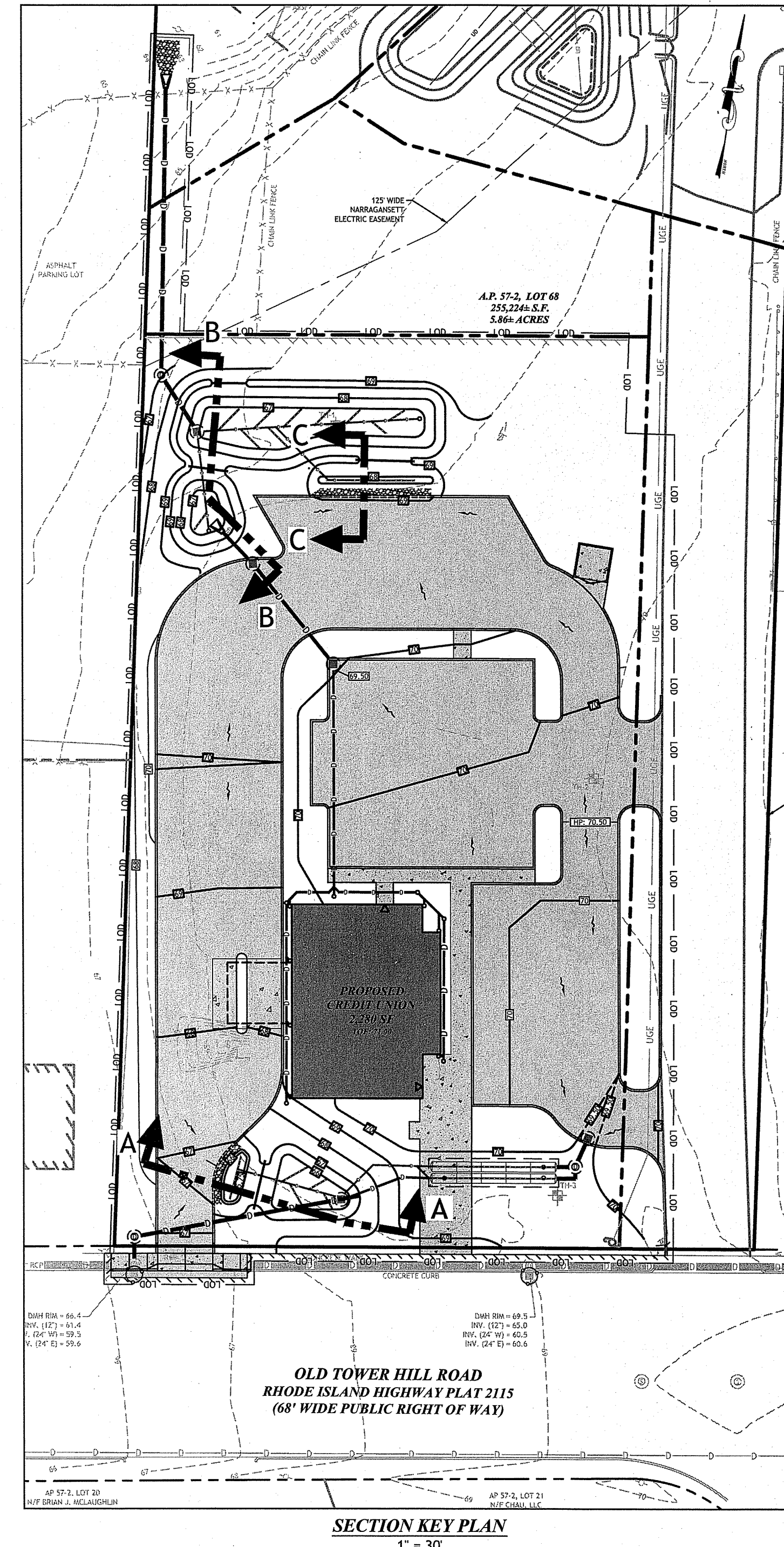
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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Charles A. Casali

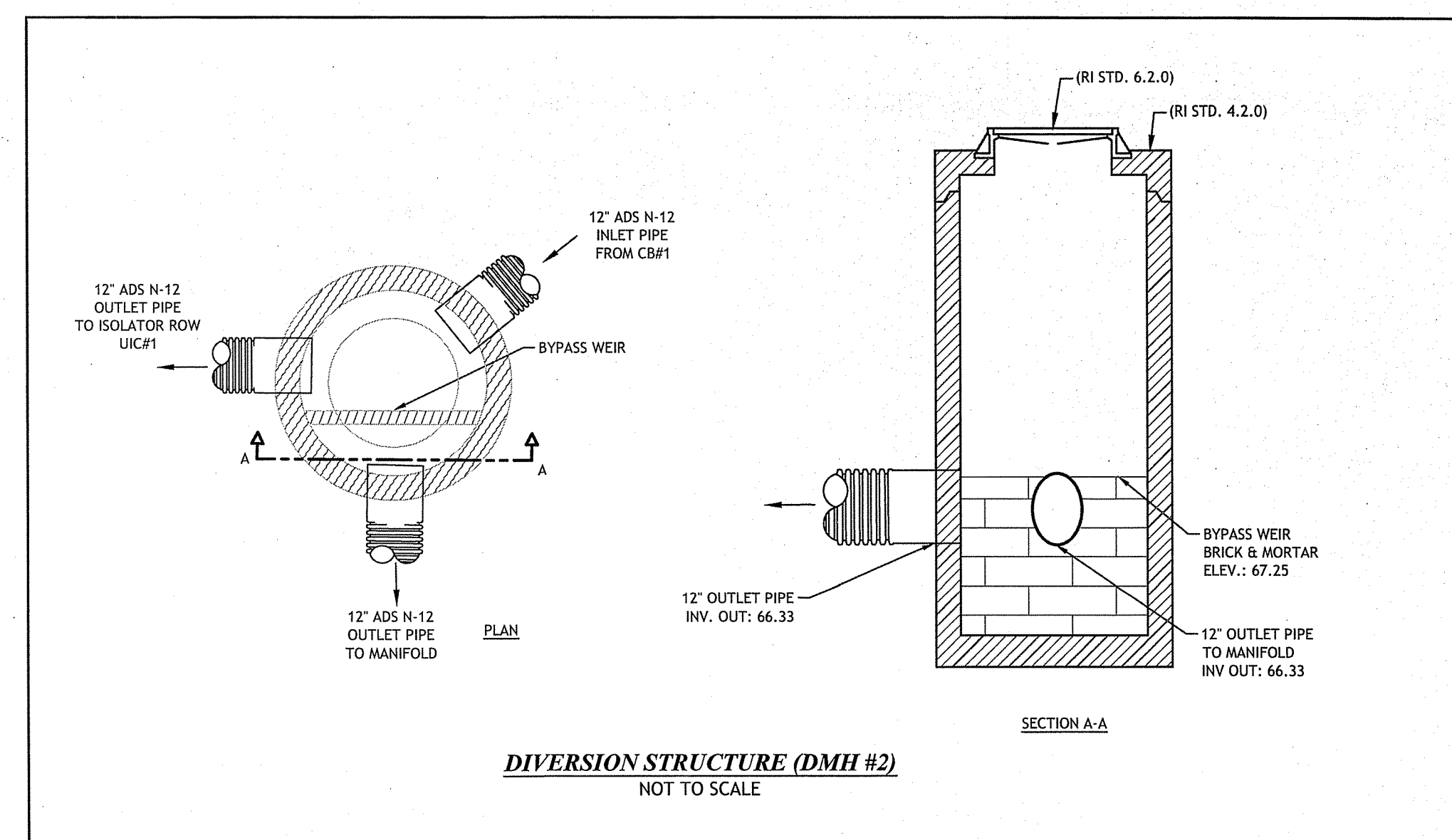


21 SEDIMENT FOREBAY #2 & SAND FILTER #2 SECTION B-B
NOT TO SCALE

DESCRIPTION	ELEV.
100 YEAR STORM	68.33
25 YEAR STORM	68.15
10 YEAR STORM	68.07
2 YEAR STORM	68.02
1 YEAR STORM	67.91
TOP OF POND	69.00
BOTTOM OF POND	67.00
BOTTOM OF SAND	65.50
BOTTOM OF CRUSHED STONE	65.00



22 SEDIMENT FOREBAY #3 SECTION C-C
NOT TO SCALE



JCE
JOE CASALI ENGINEERING, INC.
DRAINAGE, WETLANDS, ISDS, TRAFFIC, FLOODPLAIN
300 POST ROAD, WARWICK, RI 02886
(401) 944-1900 (401) 944-1313 FAX WWW.JCEASAL.COM

JOSEPH A. CASALI
No. 1250
REGISTERED PROFESSIONAL ENGINEER
CIVIL
A.16.19

PROPOSED 2,280 SF COMMERCIAL CREDIT UNION
PAWTUCKET CREDIT UNION
84 OLD TOWER HILL ROAD
WAKEFIELD, RHODE ISLAND
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PROPERTY OWNER
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1 CUSTOM HOUSE ST., SUITE 4
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APPLICANT
PAWTUCKET CREDIT UNION
1200 CENTRAL AVENUE
PAWTUCKET, RI 02861
401-722-2212

REVISIONS:

NO.	DATE	DESCRIPTION
1	4/4/2019	RIDEM/RIDOT RTC
2	4/16/2019	RIDEM RTC

DESIGNED BY: WMLJR
DRAWN BY: SD/SEP
CHECKED BY: JAC
DATE: JAN. 2019
PROJECT NO.: 05-578

NOT FOR CONSTRUCTION,
UNLESS APPROVED BY
RIDEM & RIDOT

DETAILS III

**SHEET
10 OF 12**

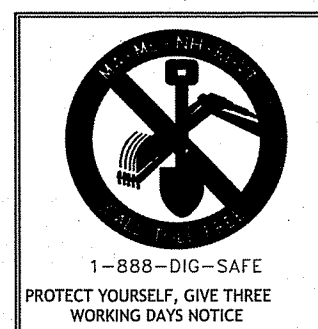
SOUTH KINGSTOWN LANDSCAPE PLANNING DATA

**ARTICLE XIII Design and Public Improvement Standards
Subdivision and Land Development Regulations - ARTICLE IV
Special Requirements**

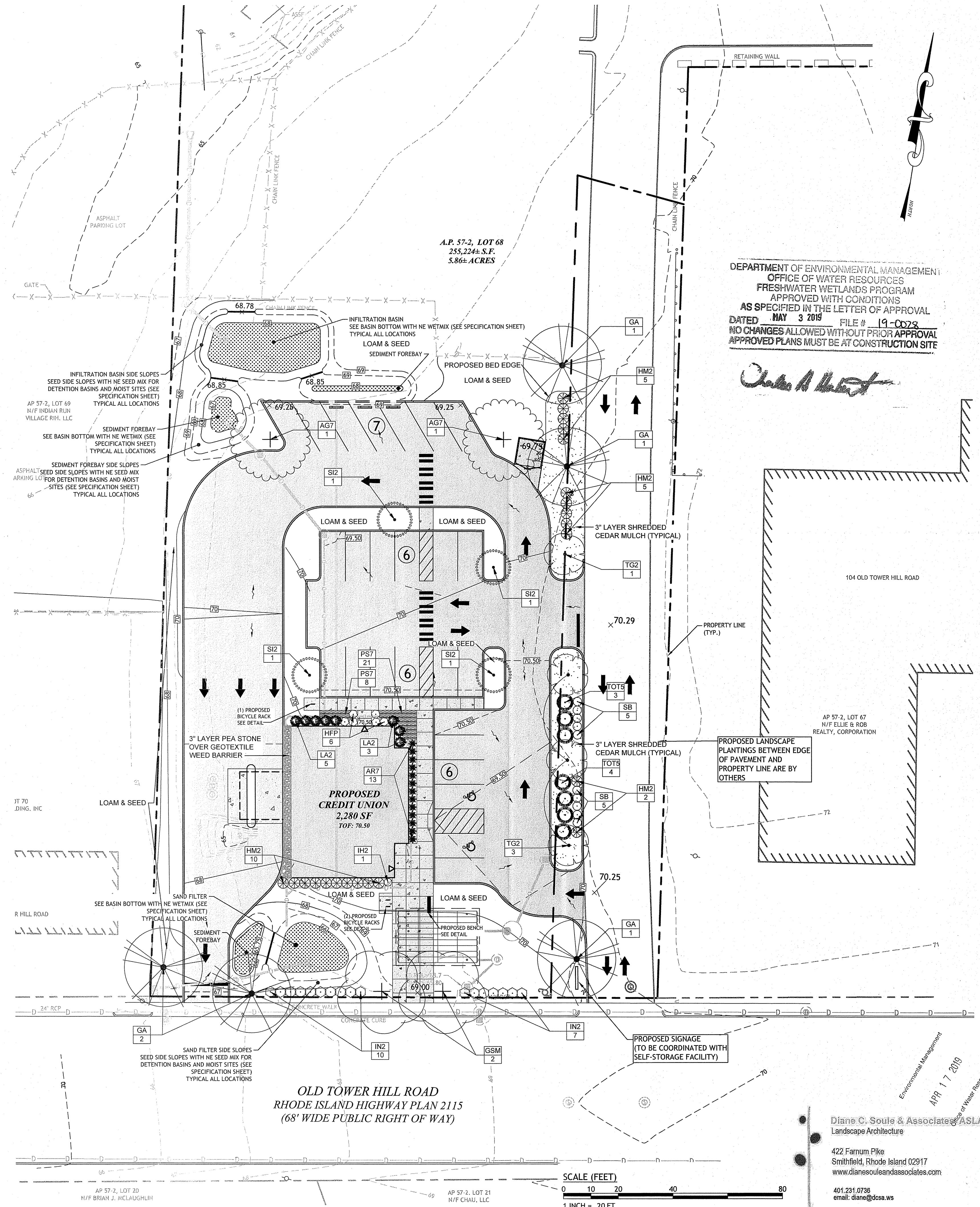
ZONING CRITERIA	REQUIRED	PROPOSED	REGULATION 16
STREET TREE LOCATION	LOCATED WITHIN 10 FEET OF THE STREET RIGHT-OF-WAY LINE	5 TREES LOCATED WITHIN 10 FEET OF THE STREET RIGHT-OF-WAY LINE. 1 TREE LOCATED 14 FEET FROM RIGHT-OF-WAY SO SIGN IS NOT OBSTRUCTED	ARTICLE XIII 1.3.a.
SPACING OF STREET TREES	30 TO 50 FEET ON CENTER	30 TO 50 FEET ON CENTER	ARTICLE XIII 1.3.a.
TREE SIZE	1 1/2" TO 2" CALIPER AND 6 TO 8 FEET TALL	1 1/2" TO 2" CALIPER AND 6 TO 8 FEET TALL	ARTICLE XIII 1.3.c.
SMALL SHRUB SIZE	4 FEET MINIMUM	4 FEET MINIMUM	ARTICLE IV G.1.c.
SMALL EVERGREEN TREE AND LARGE SHRUB SIZE	6 TO 8 FEET MINIMUM	6 TO 8 FEET MINIMUM	ARTICLE IV.G.1.d.
PERIMETER LANDSCAPING PLANT COUNTS	1 TREE PLUS 3 LOW SHRUBS OR GROUNDCOVER PLANTS FOR EVERY 35 LINEAR FEET OF PERIMETER	TOWER HILL ROAD: 150' LF/35 LF=3 TREES 150' LF/35 LF x 3=13 SHRUBS (17 SHRUBS PROVIDED) ACCESS DRIVE: 245 LF/35 LF x 3=5 TREES 245 LF/35 LF x 3=21 SHRUBS *EXCLUDING CURB CUTS	ARTICLE IV G.3
PARKING LOT SCREENING ADJACENT TO A PUBLIC STREET	SELECTION OF 5 OPTIONS OPTION 1 SELECTED-10 FOOT LANDSCAPE STRIP BETWEEN PARKING AND RIGHT-OF-WAY PLANTED AS A PARTIAL LANDSCAPE SCREEN	OPTION 1-PARTIAL LANDSCAPE SCREEN: 3 EVERGREEN TREES AND 7 LOW SHRUBS/40 LF CALCULATION: 64 LF/40 LF x 3=5 EVERGREEN TREES 64 LF/40 LF x 7=12 SHRUBS	ARTICLE IV.G.3
INTERIOR LANDSCAPING	PARKING AREAS 2,500 TO 20,000 SQUARE FEET REQUIRE 5% INTERIOR LANDSCAPING	9,320 SF x 5% = 466 SF REQ'D WITH 1,574 SF PROVIDED	ARTICLE IV.G.4.
INTERIOR LANDSCAPING COMBINATIONS	COMMON LANDSCAPE AREA SHALL CONTAIN 1 TREE AND 6 SHRUBS PER 300 SQUARE FEET	1,574 SF/300 SF=5.25 CALCULATION: 5.25 x 1=5 TREES 5.25 x 6=32 SHRUBS	ARTICLE IV.G.4.i.
BUILDING LANDSCAPING	3 FOOT WIDE LANDSCAPE STRIP BETWEEN BUILDING AND PARKING AND BUILDING WALL FACING ADJACENT STREET SHALL BE LANDSCAPED	4 TO 7 FOOT WIDE LANDSCAPE STRIP BETWEEN BUILDING AND PARKING AND BUILDING WALL FACING ADJACENT STREET LANDSCAPED	ARTICLE IV.G.5.

PLANT SCHEDULE

DECIDUOUS TREES	CODE	QTY	BOTANICAL NAME / COMMON NAME	B&B	CALIPER	SIZE
	AG7	2	Acer rubrum 'October Glory' TM / October Glory Maple	B & B	1 1/2" - 2" cal.	
	GA	5	Ginkgo biloba 'Autumn Gold' TM / Maidenhair Tree	B & B	1 1/2" - 2" cal.	
	GSM	2	Gleditsia triacanthos 'Shademaster' TM / Shademaster Locust	B & B	1 1/2" - 2" cal.	
	TG2	4	Tilia cordata 'Greenspire' / Greenspire Littleleaf Linden	B & B	1 1/2" - 2" cal.	
EVERGREEN TREES	CODE	QTY	BOTANICAL NAME / COMMON NAME	B&B	CALIPER	SIZE
	TOT5	7	Thuja occidentalis 'Techny' / Techny Arborvitae	B & B		5' - 6' HT.
FLOWERING TREES	CODE	QTY	BOTANICAL NAME / COMMON NAME	B&B	CALIPER	SIZE
	SI2	4	Syringa reticulata 'Ivory Silk' / Ivory Silk Japanese Tree Lilac	B & B	1.25" - 1.5"	
SHRUBS	CODE	QTY	BOTANICAL NAME / COMMON NAME	CONT/B&B	SIZE	SPACING
	AR7	13	Azalea x 'Rosebud' / Rosebud Azalea	3 gal		
	HM2	22	Hydrangea macrophylla 'Nikko Blue' / Nikko Blue Hydrangea	3 gal		
	IH2	1	Ilex crenata 'Hoogendoorn' / Hoogendoorn Japanese Holly	3 gal		
	IN2	17	Ilex glabra 'Nordic' / Nordic Inkberry	3 gal		
	LA2	8	Leucothoe axillaris / Coastal Leucothoe	3 gal		
	SB	10	Spiraea x bumalda 'Anthony Waterer' / Anthony Waterer Spiraea	2 gal		
PERENNIALS	CODE	QTY	BOTANICAL NAME / COMMON NAME	CONT/B&B	SIZE	SPACING
	HFP	6	Hosta fortunei 'Patriot' / Hosta (white edged)	1 gal		
GROUND COVERS	CODE	QTY	BOTANICAL NAME / COMMON NAME	CONT	SPACING	
	PS7	29	Pachysandra terminalis 'Green Sheen' / Pachysandra	1 gal	24" o.c.	



LOCATION OF EXISTING UTILITIES SHOWN, ARE FROM GATE LOCATION AND EXISTING DOCUMENTATION AND MAY NOT BE ACCURATE. EXACT LOCATION TO BE DONE BY THE APPROPRIATE UTILITY COMPANY OR MUNICIPALITY PRIOR TO ANY EXCAVATION CALL DIGSAFE AT: 1-888-DIG-SAFE
1-888-344-7233



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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Charles A. Soule

JCE
JOE CASALI ENGINEERING, INC.
CIVIL/SITE DEVELOPMENT/TRANSPORTATION
300 POST ROAD, WARWICK, RI 02888
401-944-1800 (401)944-8131 FAX WWW.JCEASAL.COM



PROPOSED 2,280 SF COMMERCIAL CREDIT UNION
PAWTUCKET CREDIT UNION
84 OLD TOWER HILL ROAD
WAKEFIELD, RHODE ISLAND
AP 57-2, LOT 68

REVISIONS:

NO.	DATE	DESCRIPTION

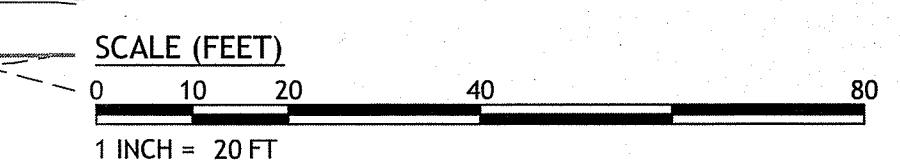
DESIGNED BY: DCS
DRAWN BY: DCS
CHECKED BY: DCS
DATE: JAN. 2019
PROJECT NO: 05-57K

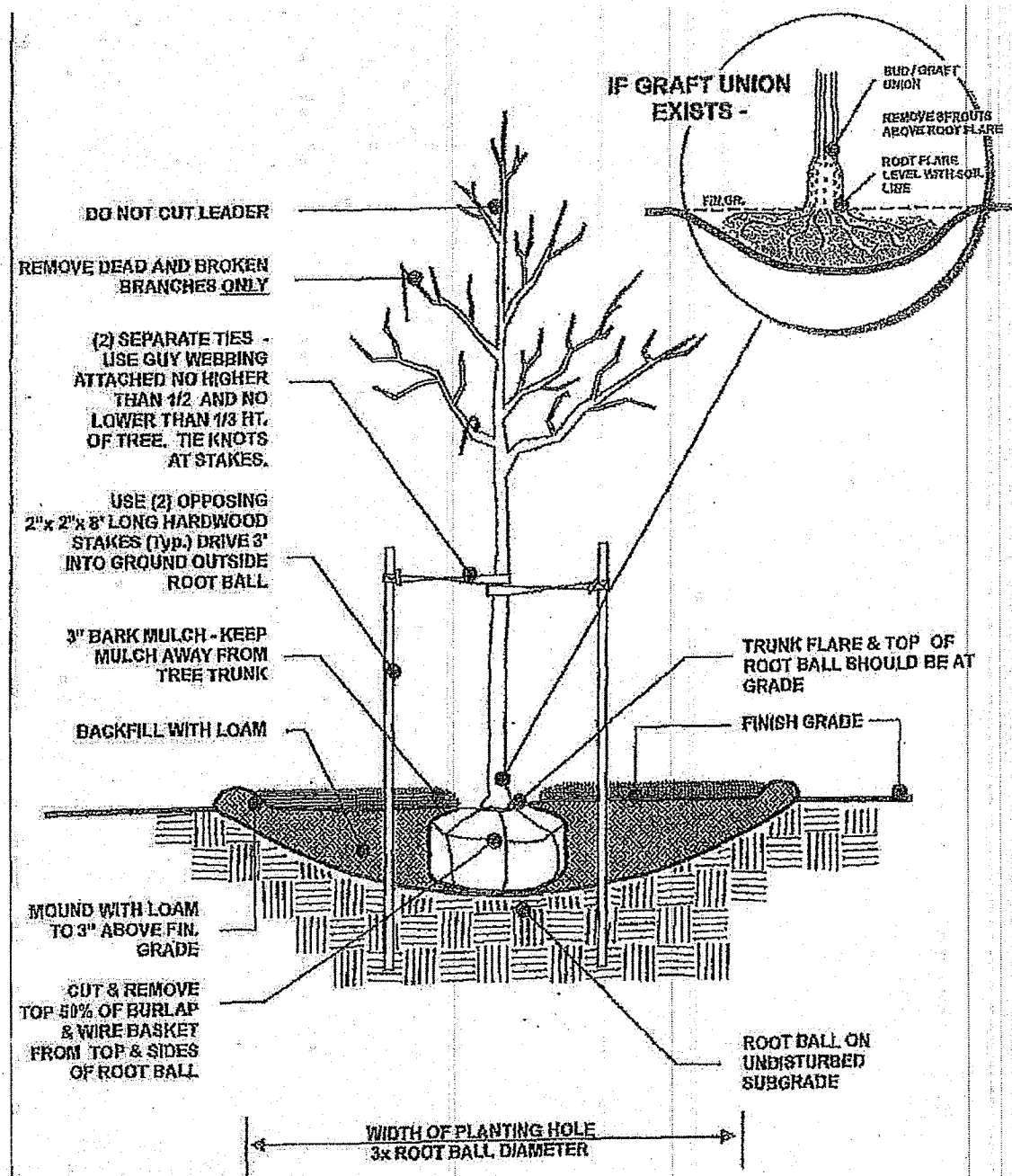
ISSUED FOR
RIDOT & RIDEM PERMIT

LANDSCAPE PLAN

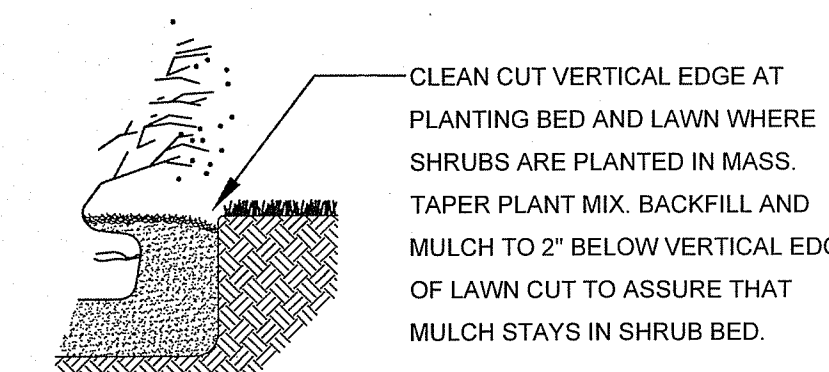
SHEET 11 OF 12

Diane C. Soule & Associates, Inc. ASLA
Landscape Architecture
422 Farnum Pike
Smithfield, Rhode Island 02917
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email: diane@dcsws.com

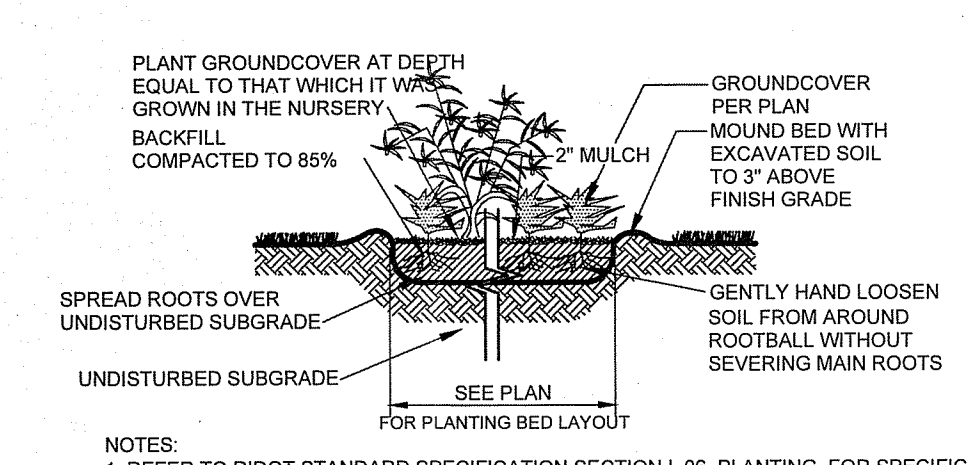




TREE PLANTING DETAIL - TYPICAL
 FIGURE 11
 TOWN OF SOUTH KINGSTOWN, R.I.



SHRUB PLANTING AT LAWN EDGE
 not to scale



GROUND COVER PLANTING DETAIL
 no scale

LANDSCAPE NOTES:

- 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'.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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 PELLET 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.
- 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.
- AFTER PLANTING PRUNE ONLY BROKEN OR DEFORMED BRANCHES AND IN SUCH MANNER AS TO PRESERVE NATURAL CHARACTER OF PLANT.
- 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.
- 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.
- INSTALL 'JUTE MESH' EROSION CONTROL FABRIC WHERE FINAL GRADES ARE 3:1 (33%) OR GREATER PER MANUFACTURER'S INSTRUCTIONS.
- 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.
- 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.
- 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.

NEW ENGLAND WETLAND PLANTS, INC

820 WEST STREET, AMHERST, MA 01002
 PHONE: 413-548-8000 FAX: 413-549-4000
 EMAIL: INFO@NEWP.COM WEB ADDRESS: WWW.NEWP.COM

New England Erosion Control/Restoration Mix for Detention Basins and Moist

BOTANICAL NAME	COMMON NAME	IND.
<i>Elymus virginicus</i>	Virginia Wild Rye	FACW-
<i>Festuca rubra</i>	Creeping Red Fescue	FACU
<i>Schizachyrium scoparium</i>	Little Bluestem	FACU
<i>Andropogon gerardii</i>	Big Bluestem	FAC
<i>Panicum virgatum</i>	Switch Grass	FAC
<i>Verbena hastata</i>	Blue Vervain	FACW
<i>Agrostis scabra</i>	Rough Bentgrass/Ticklegrass	FAC
<i>Aster novae-angliae</i>	New England Aster	FACW-
<i>Eupatorium maculatum</i>	Spotted Joe Pye Weed	FACW
<i>Eupatorium perfoliatum</i>	Boneset	FACW
<i>Juncus effusus</i>	Soft Rush	FACW+
<i>Scirpus cyperinus</i>	Wool Grass	FACW

PRICE PER LB. \$34.00
 MIN. QUANTITY: 3 LBS.
 TOTAL: \$102.00
 APPLY: 35 LBS./ACRE
 1 LB./1250 SQ FT
 MINIMUM QUANTITY: 3 LBS

The New England Erosion Control/Restoration Mix For Detention Basins and Moist Sites contains a selection of native grasses and wildflowers designed to colonize recently disturbed sites where quick growth of vegetation is desired to stabilize the soil surface. It is an excellent seed mix for ecologically appropriate restorations on moist sites that require stabilization as well as long-term establishment of native vegetation. This mix is particularly appropriate for detention basins that do not normally hold standing water. Some plants in this mix can tolerate infrequent inundation, but not constant flooding. Always apply on clean bare soil. The mix may be applied by hydro-seeding, by mechanical spreader, or on small sites it can be spread by hand. Lightly rake, or roll to ensure proper seed to soil contact. Best results are obtained with a Spring or late Summer seeding. Early-Mid Summer seeding will benefit with a light mulching of clean weed-free straw to conserve moisture. If conditions are drier than usual, watering will be required. Late Fall and Winter dormant seeding require an increase in the seeding rate. Fertilization is not recommended. Preparation of a clean weed free seed bed is necessary for optimal results.

New England Wetland Plants, Inc. may modify seed mixes at any time depending upon seed availability. The design criteria and ecological function of the mix will remain unchanged.
 Price is 5/bulk pound. FOB warehouse, plus S&H and applicable taxes.

NEW ENGLAND WETLAND PLANTS, INC

820 WEST STREET, AMHERST, MA 01002
 PHONE: 413-548-8000 FAX: 413-549-4000
 EMAIL: INFO@NEWP.COM WEB ADDRESS: WWW.NEWP.COM

New England Wetmix (Wetland Seed Mix)

Botanical Name	Common Name	Indicator
<i>Carex lurida</i>	Lurid Sedge	OBL
<i>Carex scoparia</i>	Blunt Broom Sedge	FACW
<i>Verbena hastata</i>	Blue Vervain	FACW
<i>Carex lupulina</i>	Hop Sedge	OBL
<i>Scirpus atrovirens</i>	Green Bulrush	OBL
<i>Panicum rigidulum</i>	Redtop Panic Grass	FACW+
<i>Deschampsia cespitosa</i>	Tufted Hairgrass	FACW
<i>Bidens aristosa</i>	Tickseed Sunflower/Bur Marigold	FACW
<i>Eleocharis palustris</i>	Creeping Spike Rush	OBL
<i>Juncus effusus</i>	Soft Rush	FACW+
<i>Carex crinita</i>	Fringed Sedge	OBL
<i>Mimulus ringens</i>	Square Stemmed Monkey Flower	OBL
<i>Aster puniceus</i>	Swamp Aster	OBL
<i>Eupatorium perfoliatum</i>	Boneset	FACW
<i>Glyceria canadensis</i>	Rattlesnake Grass	OBL
<i>Asclepias incarnata</i>	Swamp Milkweed	OBL
<i>Helianthus autumnale</i>	Common Sneezeweed	FACW+
<i>Penthorum sedoides</i>	Ditch Stoncrop	OBL

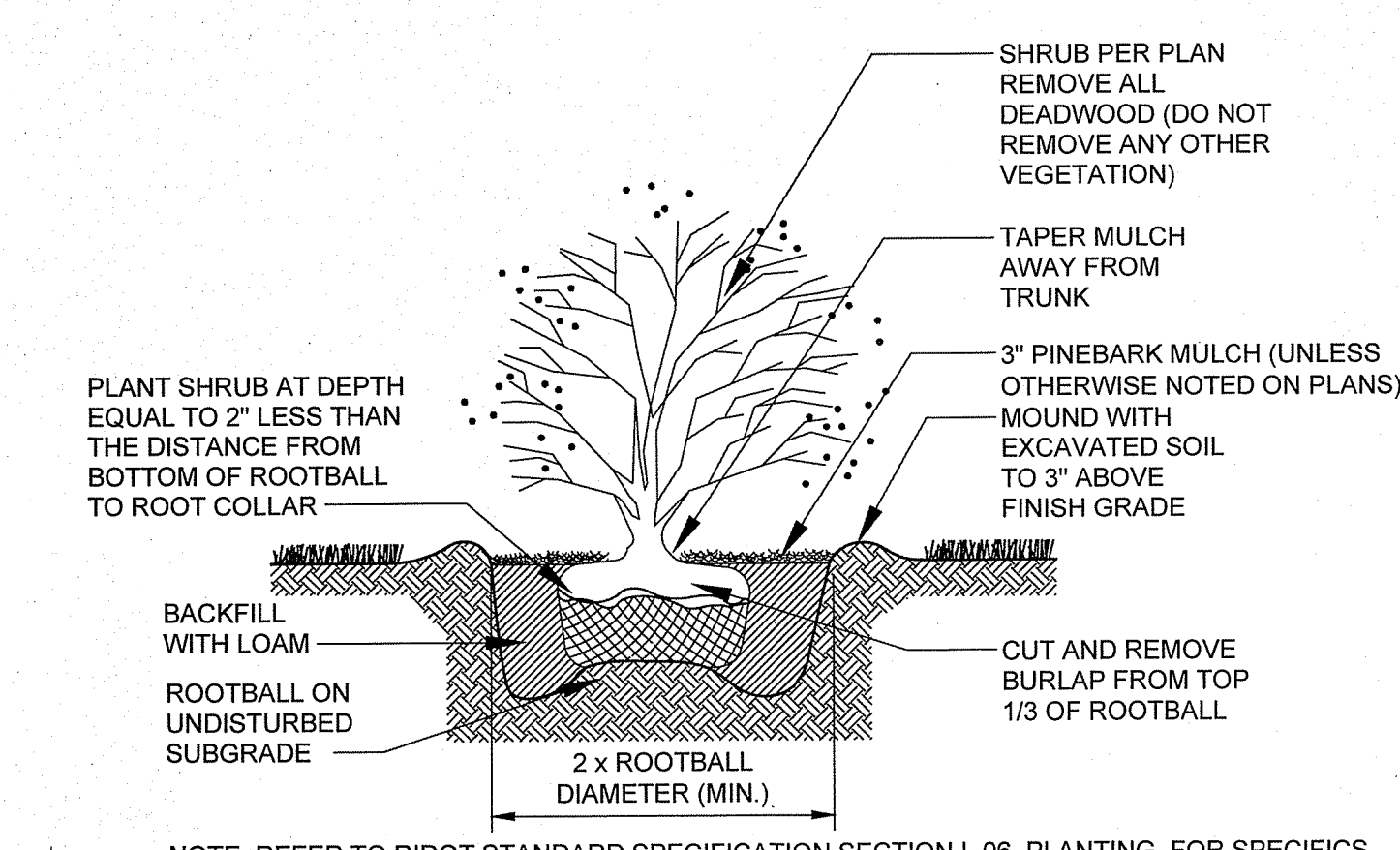
PRICE PER LB. \$135.00
 REQ. QUANTITY: 1 LBS.
 TOTAL: \$135.00
 APPLY: 18 LBS./ACRE
 1 LB./2500 SQ FT
 MINIMUM QUANTITY: 1 LBS

The New England Wetmix (Wetland seed mix) contains a wide variety of native seeds which are suitable for most wetland restoration sites that are not permanently inundated. All species are best suited to moist disturbed ground as found in most wet meadows, scrub shrub, or forested wetland restoration areas. This mix is well suited for detention basin borders, and the bottom of detention basins not generally under standing water. The seeds will not germinate under inundated conditions. If planted during the fall months, the seed mix will germinate the following spring. During the first season of growth, several species will produce seeds, while other species will produce seeds after the second growing season. Not all species will grow in all wetland situations. This mix is composed of the wetland species most likely to grow in created/restored wetlands and should produce more than 75% ground cover in two full growing seasons. Always apply on clean bare soil. The mix may be applied by hydro-seeding, by mechanical spreader, or on small sites it can be spread by hand. Lightly rake, or roll to ensure proper soil-seed contact. Best results are obtained with a Spring seeding. Late Spring and Summer seeding will benefit with a light mulching of clean weed-free straw to conserve moisture. If conditions are drier than usual, watering may be required. Late Fall and Winter dormant seeding require an increase in the seeding rate. Fertilization is not recommended. Preparation of a clean weed free soil surface is necessary for optimal results.

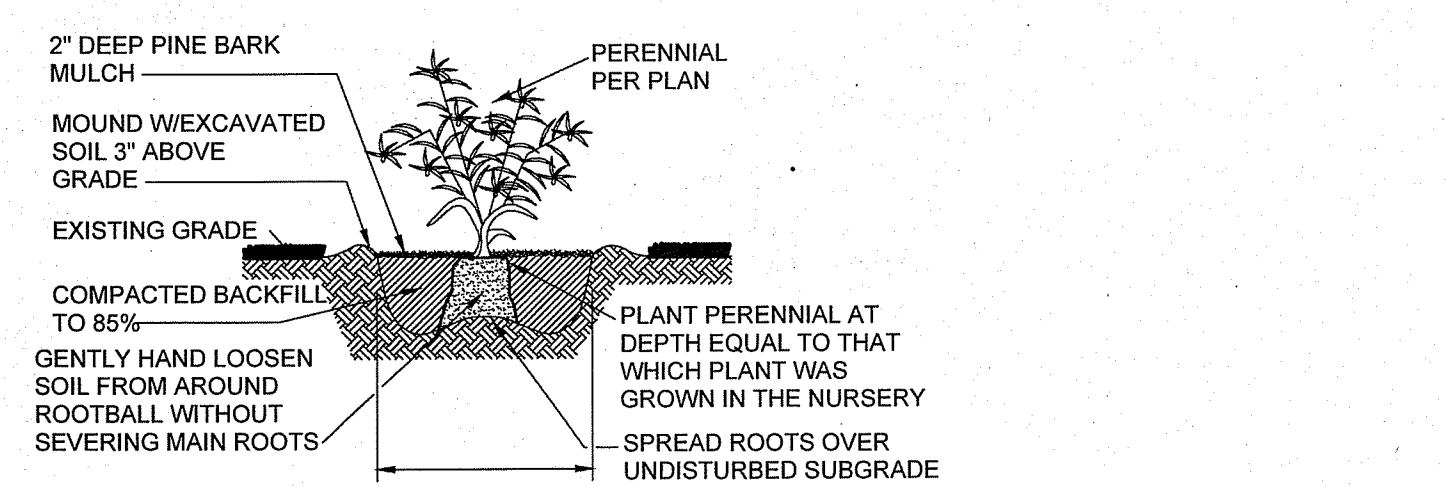
New England Wetland Plants, Inc. may modify seed mixes at any time depending upon seed availability. The design criteria and ecological function of the mix will remain unchanged. Price is 5/bulk pound, FOB warehouse, plus S&H and applicable taxes.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED MAY 2, 2019 FILE # 19-0076
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

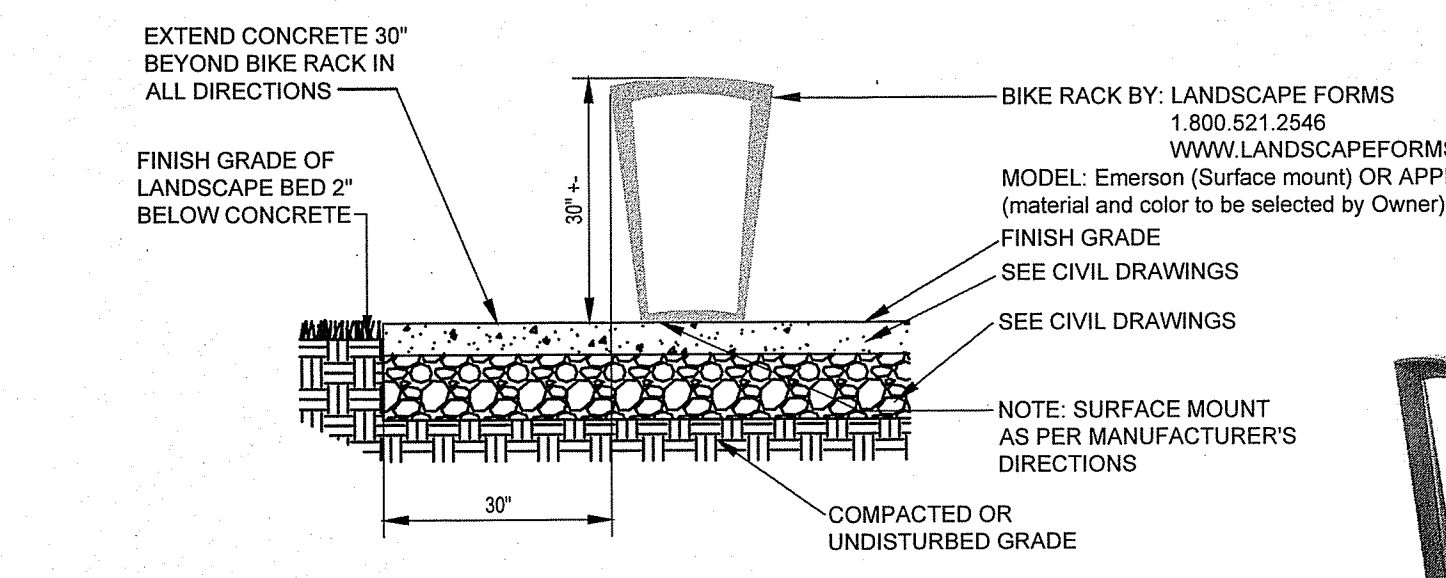
Diane C. Soule & Associates, A.S.L.A.
 Landscape Architecture
 422 Farnum Pike
 Smithfield, Rhode Island 02917
 www.dianesouleandassociates.com
 401.231.0736
 email: diane@dcsa.ws



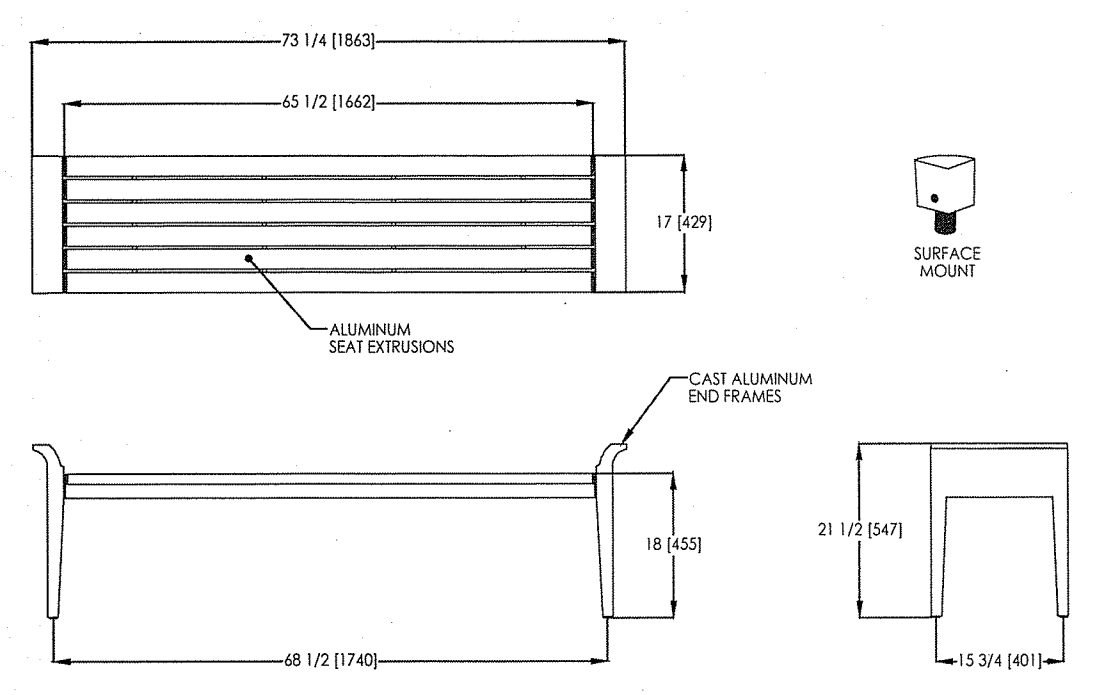
SHRUB PLANTING DETAIL
 no scale



PERENNIAL PLANTING DETAIL
 no scale



BICYCLE RACK (3 REQ'D)
 no scale



BENCH (1 REQ'D)
 no scale

JCE
 JOE CASALI ENGINEERING, INC.
 CIVIL, SITE DEVELOPMENT, TRANSPORTATION
 DRAINAGE, WETLANDS, EIDS, TRAFFIC, FLOODPLAIN
 300 POST ROAD, WARWICK, RI 02888
 (401) 944-1200 (401) 944-0374 WWW.JCEENGINEERING.COM



PROPOSED 2,280 SF COMMERCIAL CREDIT UNION
PAWTUCKET CREDIT UNION
 84 OLD TOWER HILL ROAD
 WAKEFIELD, RHODE ISLAND
 AP 57-2, LOT 68

REVISIONS:

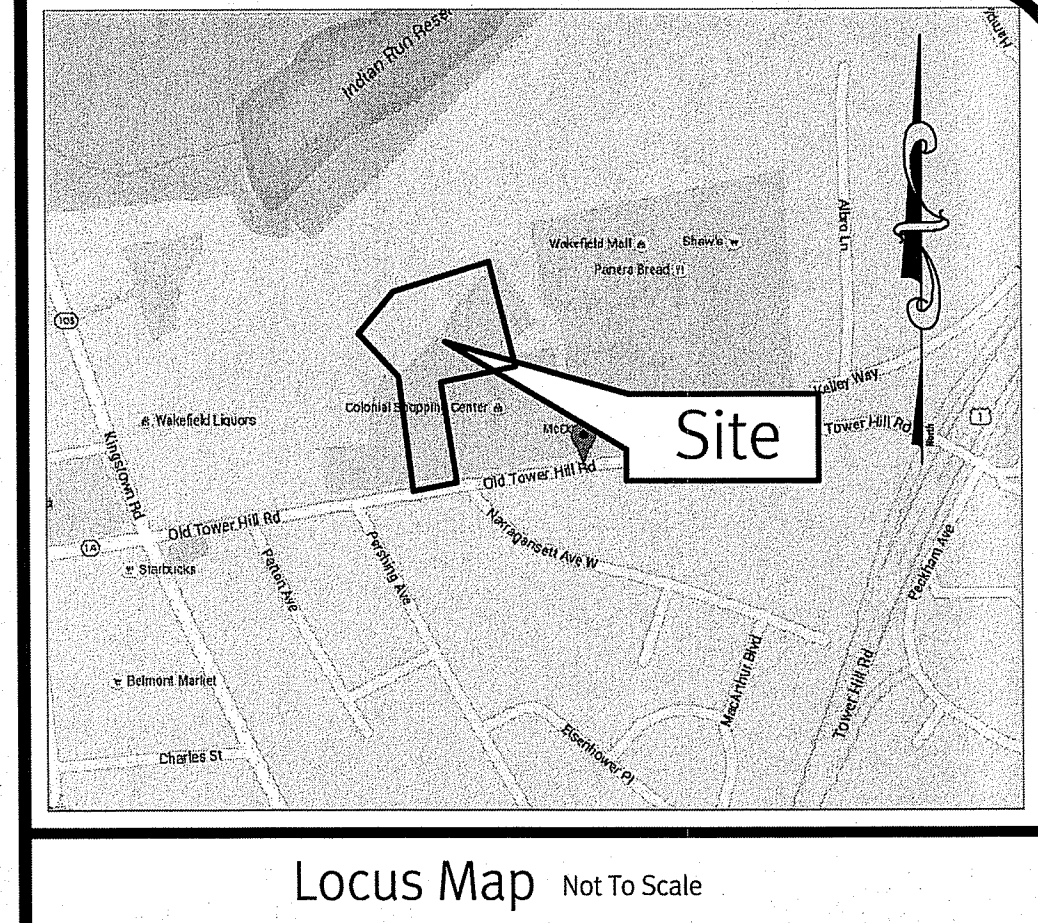
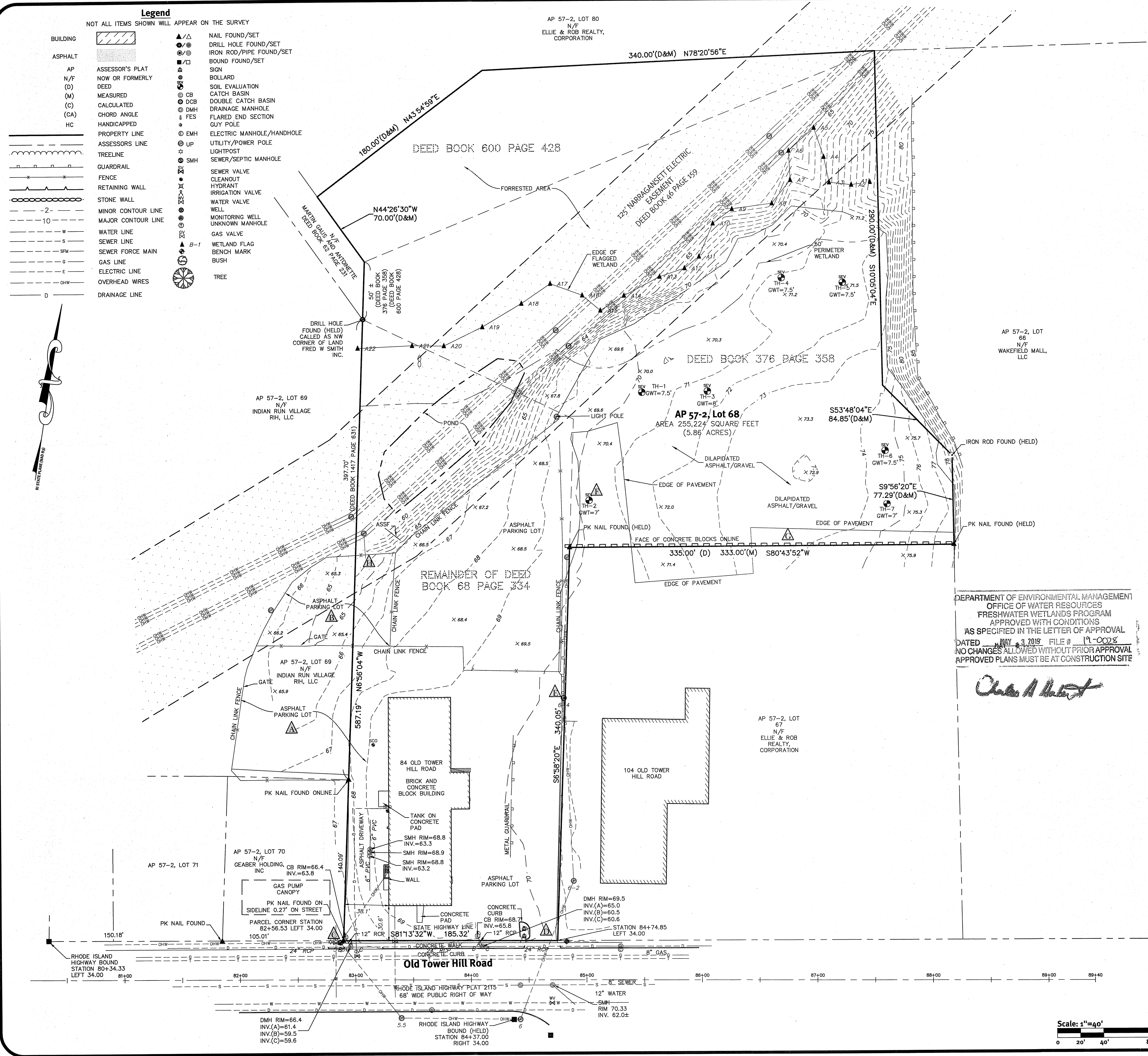
NO.	DATE	DESCRIPTION

DESIGNED BY: DCS
 DRAWN BY: DCS
 CHECKED BY: DCS
 DATE: JAN. 2019
 PROJECT NO: 05-57K

ISSUED FOR
 RIDOT & RIDEM PERMIT

LANDSCAPE DETAILS

SHEET 12 OF 12



General Notes

1. THE PARCEL IS FOUND ON ASSESSOR'S PLAT 57-2, LOT 68 IN THE TOWN OF SOUTH KINGSTOWN, WASHINGTON COUNTY, RHODE ISLAND.
2. THE OWNER PER DEED BOOK 600, PAGE 428 IS FRED W. SMITH, INC.
3. THE PARCEL IS LOCATED IN ZONE X PER FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP 44090203J, DATED OCTOBER 16, 2013.
4. THE PARCEL IS ZONED CH PER THE ASSESSOR'S ONLINE DATABASE. PLEASE CONTACT THE ZONING DEPARTMENT FOR ANY ADDITIONAL INFORMATION OR FOR A CERTIFICATE OF ZONING.
5. THERE WERE NO CEMETERIES, GRAVE SITES AND OR BURIAL GROUNDS OBSERVED WITHIN THE LIMITS OF THE SURVEY.
6. FIELD SURVEY PERFORMED BY DIPRETE ENGINEERING ON MARCH 23, 2016. THIS PLAN REFLECTS ON THE GROUND CONDITIONS AS OF THAT DATE.
7. ALL UNDERGROUND UTILITIES SHOWN ON THIS PLAN HAVE BEEN LOCATED FROM FIELD SURVEY OBSERVATIONS ONLY. DIPRETE ENGINEERING IS NOT RESPONSIBLE FOR MISSING UNDERGROUND UTILITIES, EITHER IN SERVICE OR ABANDONED, NOT OBSERVED AT THE TIME OF THE SURVEY. (PLEASE CONTACT DIGSAFE 72 WORKING HOURS PRIOR TO ANY CONSTRUCTION AT 1-888-344-7233).
8. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT. DIPRETE ENGINEERING IS NOT RESPONSIBLE FOR ANY UNKNOWN OR UNRECORDED EASEMENTS, DEEDS OR CLAIMS THAT A TITLE REPORT WOULD DISCLOSE.

Datum Note:

1. ELEVATIONS SHOWN HEREON, IN U.S. SURVEY FEET, ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), AS DETERMINED BY DIPRETE ENGINEERING USING REAL TIME KINEMATIC G.P.S. OBSERVATIONS.

Plan References:

1. RHODE ISLAND HIGHWAY PLAT 86.
2. RHODE ISLAND HIGHWAY PLAT 2007.
3. RHODE ISLAND HIGHWAY PLAT 2115.
4. LAND AT WAKEFIELD IN SOUTH KINGSTOWN, RI. DATED AUG 7, 1939. PLAN BY T.G HAZARD, JR RECORDED IN PLAN BOOK 51 PAGE 428.
5. PLAT OF LAND IN SOUTH KINGSTOWN, RI TO BE CONVEYED BY PEACE DALE OFFICE, INC. TO MARTIN E. GAUS AND ANTONETTE MARIE GAUS. DATED 1946-1947. PLAN BY LEON L. HOLLAND, CE. RECORDED IN PLAN BOOK 62 PAGE 232.

List of Possible Encroachments:

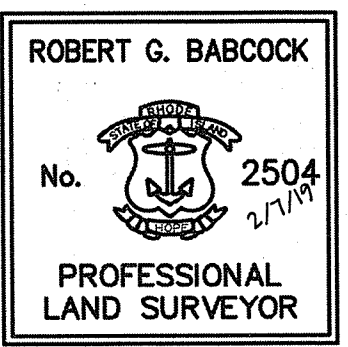
- ▲ PARKING LOT OVER PROPERTY LINE ONTO AP 57-2, LOT 69.
- ▲ PARKING LOT OVER PROPERTY LINE ONTO AP 57-2, LOT 68.
- ▲ OVERHEAD WIRE OVER PROPERTY LINE
- ▲ OVERHEAD WIRE OVER PROPERTY LINE
- ▲ OVERHEAD WIRE OVER PROPERTY LINE
- ▲ PAVEMENT AREA OVER PROPERTY LINE
- ▲ PAVEMENT AREA OVER PROPERTY LINE
- ▲ GUY WIRE OVER PROPERTY LINE

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 OFFICE OF WATER RESOURCES
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 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Babcock

Certification

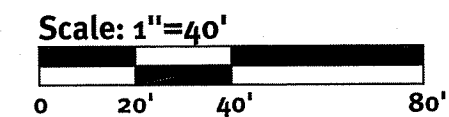
THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO SECTION 9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON JANUARY 1, 2016, AS FOLLOWS:
 TYPE OF SURVEY: COMPREHENSIVE BOUNDARY SURVEY
 MEASUREMENT SPECIFICATION: CLASS 1
 DATA ACCUMULATION SURVEY (LIMITED) CLASS T-2
 THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS:
 PERIMETER RETRACEMENT PERFORMED BY DIPRETE ENGINEERING FOR THE PURPOSE OF SITE ENGINEERING AND PERMITTING.



Robert G. Babcock
 ROBERT G. BABCOCK, RIPLS #2504, COA #LS.000A160

**This Plan Should Be Indexed
 By The Following Streets:**

- Old Tower Hill Road



Diprete Engineering
 Two Stafford Court Cranston, RI 02906
 Tel: 401-943-1000 Fax: 401-941-6000 www.diprete-eng.com
 Boston • Providence • Newport

No.	Date	Added Stamp and Signature	Description	By
1	2-2-19		Asst. Surveyor	
2	2-2-19		Asst. Surveyor	

Drawn By: MIT

Boundary & Topographic Survey
84 Old Tower Hill Road
 South Kingstown, Rhode Island
 Client: **Joe Casali Engineering, Inc.**
 300 Post Road, Warwick, RI 02888
 DE Job No. 2128-001-001. Copyright 2015 by Diprete Engineering Associates, Inc.