RIDEM Submission

Wilson & Tarn Street Development

South Kingstown, Rhode Island

Assessor's Plat 57-1 Lots 121, 122 & 146

Location Map

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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JAN 16 2019 FILE #
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE

SESC / O&M
The Soil Erosion and Sediment Control Plan (SESC) and Operations and Maintenance Plan (O&M) are required documents with this plan set and must be maintained by the contractor and owner onsite.

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Environmental Management
JAN 4 2019
Office of Water Resources

No.	Description	Date	By
8	RIDEM Permit Modification Responses to Comments	1/7/2019	LSK/C
7	RIDEM Permit Modification Responses to Comments	11/28/2018	LSK/C
6	RIDEM Permit Modification Submission	9/4/2018	LSK/C
5	Fire Department Review Submission	10/4/2016	MSC
4	Fire Department Review Submission	9/6/2016	MSC
3	Town Engineer Review Submission	8/4/2016	MSC
2	RIDEM Wetlands Application Submission	6/24/2016	MSC
1	RIDEM Wetlands Re-Submission	5/10/2016	MSC
0	RIDEM Wetland Submission	3/10/2016	BH

Drawn By: SEK Designed by: BCG

Cover Sheet

Wilson & Tarn Street Development

Assessor's Plat 57-1, Lots 121, 122 & 146
South Kingstown, Rhode Island

Prepared for
South County Post & Beam Inc.
521 Liberty Lane
West Kingston, RI 02892 Tel (401) 783-4415

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SHEET 1 OF 10

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Saugatucket Pond

Rodman Street

Broad Rock Road

1/2 Mile Radius

Peace Dale Reservoir

1/2 Mile Radius

Old Mountain Field

School Street

Cleveland Street

Oak Street

Site

Old Tower Hill Road

Tower Hill Road

1/2 Mile Radius

Main Street

1/2 Mile Radius

Silver Lake

Scale: 1"=500'

0 250' 500' 1000'

USGS Map Scale: 1"=1000'

Photo obtained from the RI-GIS.

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Environmental Management
JAN 4 2019
JAN 4 2018
Office of Water Resources

No.	Date	Description	Drawn By: SEK / Designed by: RCG
7	1/2/2019	RIDEM Wetlands Response to Comments	MSC
6	11/9/2018	RIDEM Permit Modification Submission	MSC
5	5/9/2018	RIDEM Permit Modification Submission	SEK
4	10/4/2016	Pre-Application Review Submission	MSC
3	8/24/2016	Pre-Application Review Submission	MSC
2	9/6/2016	Town Engineer Review Submission	MSC
1	6/23/2016	Town Engineer Review Submission	MSC
0	6/23/2016	RIDEM Wetlands Submission	MSC
0	2/10/2016	RIDEM Wetland Submission	BM

Aerial Half Mile Radius Plan

Wilson & Tarn Street Development

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Prepared For
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General Notes:

1. THE SITE IS LOCATED ON THE TOWN OF SOUTH KINGSTOWN, RHODE ISLAND ASSESSOR'S PLAT 57-1 LOTS 121, 122 & 146.
2. THE TOTAL SITE IS APPROXIMATELY 2.91± ACRES AND IS ZONED R-10.
3. THE OWNER OF AP 57-1 LOTS 121, 122 & 146 IS: OAK STREET INVESTMENTS, 521 LIBERTY LANE, WEST KINGSTON, RI 02892
4. THIS SITE IS LOCATED IN FEMA FLOOD ZONES X (SHADED) AND X (UNSHADED). REFERENCE FEMA FLOOD INSURANCE RATE MAP 44009C0203J, MAP REVISED OCTOBER 16, 2013. (FLOOD PLAIN DESCRIPTIONS SHOWN ABOVE)
5. THE BOUNDARY LINE AS SHOWN ON THIS PLAN DEPICTS A CLASS I SURVEY AS PERFORMED BY DIPRETE ENGINEERING ASSOCIATES, INC. THE PLAN ITSELF CONFORMS ONLY TO A CLASS III STANDARD AS ADOPTED BY RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS. THIS PLAN IS NOT TO BE CONSTRUED AS A CLASS I BOUNDARY PLAN AND IS NOT SUITABLE FOR RECORDING AS A CLASS I STANDARD.
6. SOIL MAPPING OBTAINED FROM SOIL SURVEY OF RHODE ISLAND', PREPARED BY U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE.
7. THE SITE HAS WATER SERVICE AVAILABLE PER UNITED WATER (8-20-2014)
8. THE SITE IS NOT WITHIN A:
   GROUNDWATER PROTECTION AREA (RIDEM)
   NATURAL HERITAGE AREAS (RIDEM)
   NARROW RIVER SPECIAL AREA MANAGEMENT PLAN (CRMC)
   SALT PONDS SPECIAL AREA MANAGEMENT PLAN (CRMC)
   GROUNDWATER PROTECTION OVERLAY DISTRICT (TOWN)
9. THE SITE HAS PUBLIC SEWER AVAILABLE ON OAK STREET PER SOUTH KINGSTOWN PUBLIC SERVICES (8-20-2014)

Abbreviations:

EXISTING	EX
PROPOSED	PR
ASSESSOR'S PLAT	**AP**
ASBESTOS CONCRETE	**AC**

Legend:

EX MAJOR FOOT CONTOUR — 160
EX MINOR FOOT CONTOUR — 158
SOIL LINE AND DESIGNATION — HkC / CaD
PROPERTY LINE
ASSESSOR LINE
IINTERNAL LOT LINE
WETLAND EDGE
WETLAND HATCH
WETLAND FLAG — ▲A5
EDGE OF PAVEMENT
EX BUILDING
TREELINE
SEWER LINE — S
SOIL EVALUATION — SEV

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Environmental Management
JAN 4 2019
Office of Water Resources

No.	Date	Description	By
9	1/7/2019	RIDEM Permit Modification Response to Comments	MJCC
8	11/29/2018	RIDEM Permit Modification Submission	MJCC
7	5/4/2018	RIDEM Permit Modification Submission	EJEK
6	4/4/2018	Town Engineer Review Submission	MJCC
5	10/4/2016	Fire Department Review Submission	MJCC
4	9/6/2016	Town Engineer Review Submission	MJCC
3	8/4/2016	RIDEM Wetlands Resubmission	MJCC
2	6/21/2016	RIDEM Wetlands Resubmission	MJCC
1	3/10/2016	RIDEM Wetland Submission	JMH
0	2/10/2016	Preliminary Submission	JMH

Drawn By: SEK | Designed By: BCG

Existing Conditions Plan
Wilson & Tarn Street Development

Assessor's Plat 57-1, Lots 121, 122 & 146
South Kingstown, Rhode Island

Prepared For
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SHEET 3 OF 10

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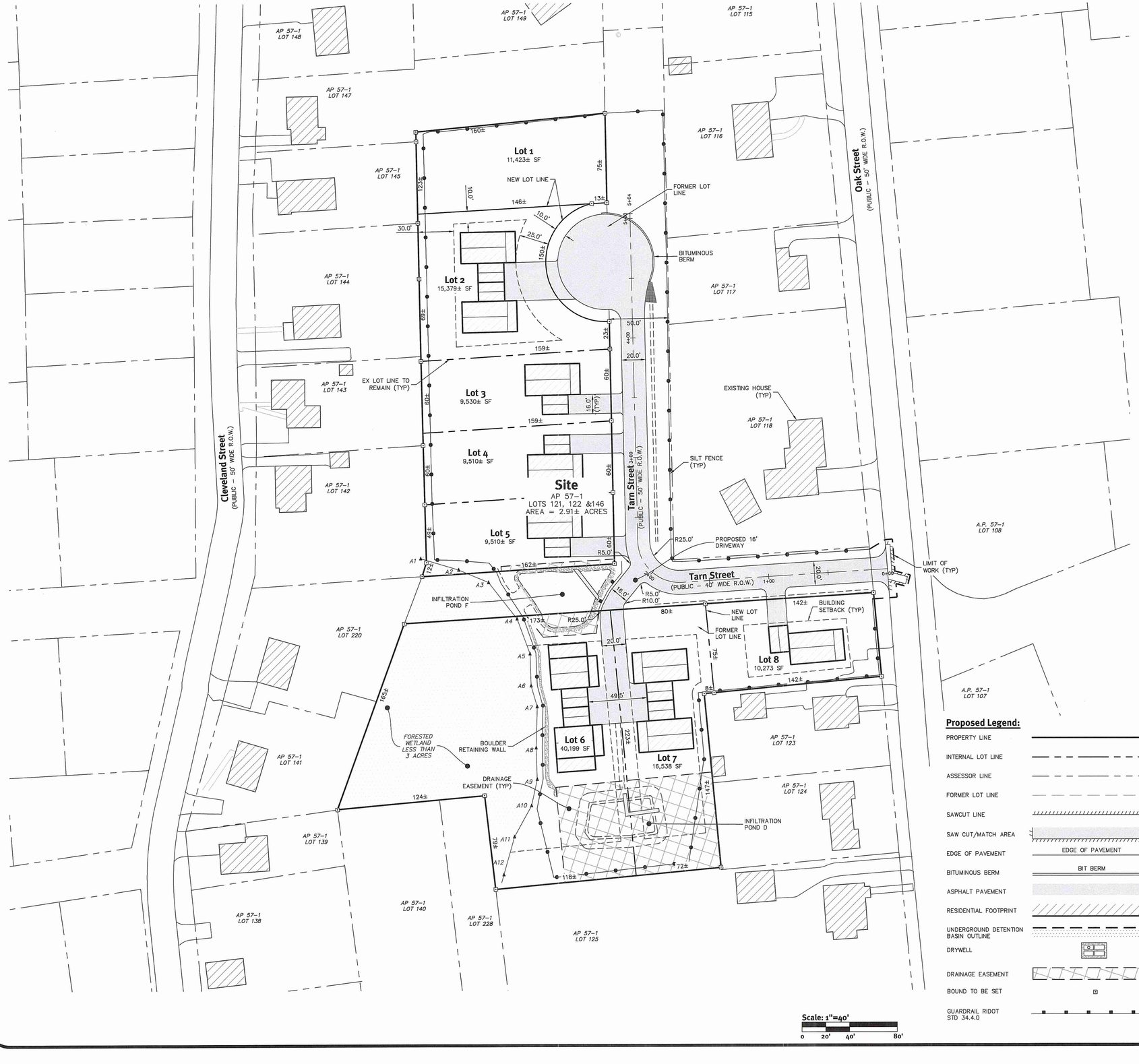

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6. THE SITE IS NOT WITHIN A:
   GROUNDWATER PROTECTION AREA
   NATURAL HERITAGE AREAS
   NARROW RIVER SPECIAL AREA MANAGEMENT PLAN
   SALT PONDS SPECIAL AREA MANAGEMENT PLAN
   GROUNDWATER PROTECTION OVERLAY DISTRICT
7. THE FOLLOWING DOCUMENTS ARE CONSIDERED PART OF THE PROJECT PLANS AND THE CONTRACTOR/ OWNER MUST MAINTAIN THESE DOCUMENTS AS PART OF A FULL PLAN SET:
   - SOIL EROSION AND SEDIMENT CONTROL PLAN (SESC). THE SESC CONTAINS THE FOLLOWING:
     - EROSION CONTROL MEASURES
     - SHORT TERM MAINTENANCE
     - ESTABLISHMENT OF VEGETATIVE COVER
     - CONSTRUCTION POLLUTION PREVENTION
     - SEQUENCE OF CONSTRUCTION
   - OPERATIONS AND MAINTENANCE PLAN (O&M). THE O&M CONTAINS THE FOLLOWING:
     - LONG TERM MAINTENANCE
     - LONG TERM POLLUTION PREVENTION
8. THIS PLAN SET REFERENCES RIDOT STANDARD DETAILS (DESIGNATED AS RIDOT STD X.X.X.). RIDOT STANDARD DETAILS ARE AVAILABLE FROM RIDOT AND ONLINE AT: WWW.DOT.STATE.RI.US/ENGINEERING/STANDARDS/INDEX.ASP.
9. THE SITE IS TO BE SERVICED BY PUBLIC WATER AND PUBLIC SEWER.
10. EXISTING RIGHTS OF WAY ARE AS SHOWN ON PLANS.
11. THE DRAINAGE SYSTEM IS DESIGNED TO MEET THE SOUTH KINGSTOWN SUBDIVISION AND LAND DEVELOPMENT REGULATIONS WITH THE USE OF CATCH BASINS AND UNDERGROUND DRAINAGE SYSTEMS. THE STORMWATER MANAGEMENT SYSTEM MEETS THE RIDEM BEST MANAGEMENT PRACTICES.
12. THE SITE IS PROPOSED TO BE BUILT IN 1 PHASE. THE ONLY PHASE WILL INCLUDE INCLUDES TARN STREET,ALL APPROPRIATE UTILITIES, AND ALL LOTS. INFILTRATION PONDS AND INFRASTRUCTURE WILL ALSO BE INCLUDED IN THIS SINGULAR PHASE BUILD.
13. TEST HOLES AND SOIL EVALUATIONS WERE COMPLETED BY DIPRETE ENGINEERING ON MAY 1, 2015.

Development Data:

TOTAL SITE AREA:	2.91± ACRES
TOTAL NUMBER OF LOTS:	8
TOTAL NUMBER OF UNITS:	10
TOTAL LOT AREA:	2.91 ACRES
TOTAL OPEN SPACE:	–
AVERAGE LOT AREA:	0.36 ACRES
RIGHT OF WAY AREA:	–
RIGHT OF WAY WIDTH:	40'/50' (EXISTING)
LENGTH OF ROAD:	504'
PAVEMENT WIDTH:	20'

Dimensional Regulations:

CURRENT ZONING:	R-10 REQUIRED
MINIMUM LOT AREA:	10,000 SF
MINIMUM FRONTAGE AND LOT WIDTH:	80'
MINIMUM FRONT AND CORNER SIDE YARD:	25'
MINIMUM SIDE YARD:	10'
MINIMUM REAR YARD:	30'
MAXIMUM STRUCTURE HEIGHT:	35'
MAXIMUM LOT BUILDING COVERAGE:	25%

Layout and Materials:

1. DIMENSIONS ARE FROM THE FACE OF CURB, FACE OF BUILDING, FACE OF WALL, AND CENTER LINE OF PAVEMENT MARKINGS, UNLESS OTHERWISE NOTED.
2. CURB RADII ARE AS NOTED ON PLANS.
3. CURBING SHALL BE BITUMINOUS BERM OR AS LABELED ON THE PLANS.
4. SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SCALED TO THEIR ACTUAL DIMENSIONS OR LOCATIONS ON THE DRAWINGS. THE CONTRACTOR SHALL REFER TO THE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.
5. SEE ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS AND DETAILS CONTIGUOUS TO THE BUILDING, INCLUDING SIDEWALKS, RAMPS, BUILDING ENTRANCES, STAIRWAYS, UTILITY PENETRATIONS, CONCRETE DOOR PADS, COMPACTOR PAD, LOADING DOCKS, BOLLARDS, ETC.
6. PROPOSED BOUNDS AND ANY EXISTING PROPERTY LINE MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE SET OR RESET BY A PROFESSIONAL LICENSED SURVEYOR.
7. CONTRACTOR SHALL NOT RELY SOLELY ON ELECTRONIC VERSIONS OF PLANS, SPECIFICATIONS, AND DATA FILES THAT ARE OBTAINED FROM THE DESIGNERS, BUT SHALL VERIFY LOCATION OF PROJECT FEATURES IN ACCORDANCE WITH THE PAPER COPIES OF THE PLANS AND SPECIFICATIONS THAT ARE SUPPLIED AS PART OF THE CONTRACT DOCUMENTS.

Soil Information:

(REFERENCE: SOIL SURVEY OF RHODE ISLAND, U.S.D.A. SOIL CONSERVATION SERVICE)

SOIL NAME	DESCRIPTION
Ao	ADRIAN MUCK
HkC	HINCKLEY GRAVELLY SANDY LOAM, ROLLING
MU	MERRIMAC-URBAN LAND COMPLEX

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Proposed Legend:

PROPERTY LINE
INTERNAL LOT LINE
ASSESSOR LINE
FORMER LOT LINE
SAWCUT LINE
SAW CUT/MATCH AREA
EDGE OF PAVEMENT — EDGE OF PAVEMENT
BITUMINOUS BERM — BIT BERM
ASPHALT PAVEMENT
RESIDENTIAL FOOTPRINT
UNDERGROUND DETENTION BASIN OUTLINE
DRYWELL
DRAINAGE EASEMENT
BOUND TO BE SET
GUARDRAIL RIDOT STD 34.4.0

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Environmental Management
JAN 4 2019
Office of Water Resources

No.	Date	Description	By
8	1/4/2019	RIDEM Permit Modification Response to Comments	DAS/CC
7	12/20/2018	RIDEM Permit Modification Submission	DAS/CC
6	12/3/2018	RIDEM Permit Modification Submission	S.E.K.
5	10/29/2018	Final Submittal at Review Submission	DAS/CC
4	9/6/2016	Town Engineer Review Submission	DAS/CC
3	8/23/2016	Town Engineer Review Submission	DAS/CC
2	6/23/2016	RIDEM Wetlands Re-Submission	DAS/CC
1	2/10/2016	RIDEM Wetland Submission	DAS/CC
0	1/12/2015	Initial Submittal	DAS/CC

Designed by: BCG
Drawn By: SEK

Site Plan
Wilson & Tarn Street Development
Assessor's Plat 57-1, Lots 121, 122 & 146
South Kingstown, Rhode Island
Prepared for
South County Post & Beam Inc.
521 Liberty Lane
West Kingston, RI 02892 Tel (401) 783-4415

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SHEET 4 OF 10

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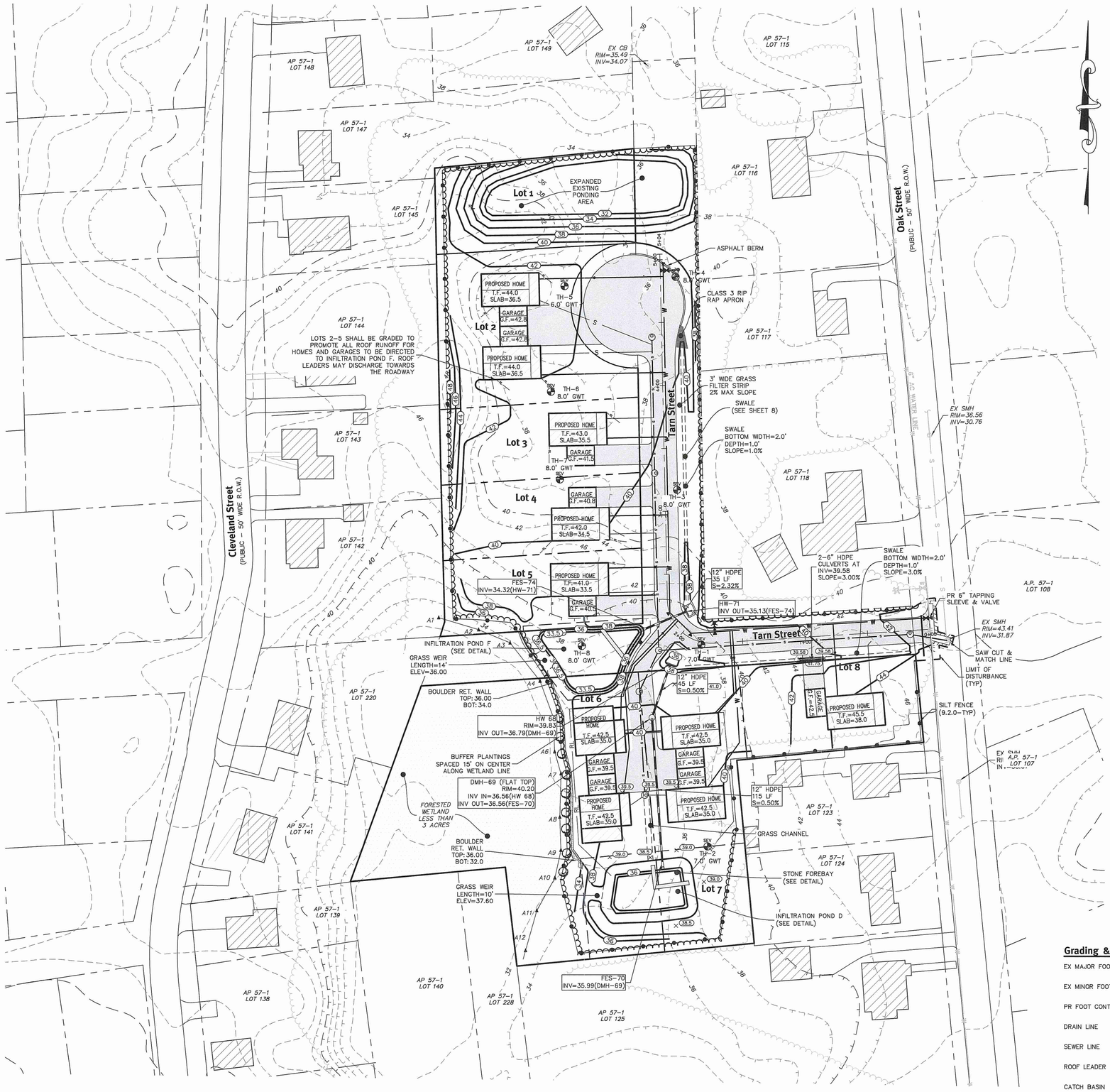

Grading and Utility Notes:

1. THE CONTRACTOR IS RESPONSIBLE FOR ALL SOIL EROSION AND SEDIMENT CONTROL ONSITE. THE CONTRACTOR IS TO NOTIFY THE DESIGN ENGINEER, THE DIRECTOR OF PUBLIC WORKS, THE TOWN ENGINEER, AND RI DEPT. OF ENVIRONMENTAL MANAGEMENT AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
2. CONTRACTOR TO OBTAIN ALL FEDERAL, STATE, AND MUNICIPAL APPROVALS PRIOR TO THE START OF CONSTRUCTION.
3. CONSTRUCTION TO COMMENCE UPON RECEIPT OF ALL NECESSARY APPROVALS.
4. ALL WORK PERFORMED HEREIN SHALL BE GOVERNED BY THE RHODE ISLAND STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION AND TOWN OF SOUTH KINGSTOWN STANDARD SPECIFICATIONS AND DETAILS.
5. SEQUENCE OF CONSTRUCTION PROVIDED IN SESC MAY BE MODIFIED AS FIELD CONDITIONS WARRANT WITH PRIOR APPROVAL FROM THE OWNER OR OWNER'S REPRESENTATIVE.
6. THE CONTRACTOR SHALL COORDINATE WITH ALL OF THE APPROPRIATE UTILITY COMPANIES FOR AGREEMENTS TO SERVICE THE PROPOSED BUILDING. THIS SHALL BE DONE PRIOR TO CONSTRUCTION. NO REPRESENTATIONS ARE MADE BY DIPRETE ENGINEERING THAT UTILITY SERVICE IS AVAILABLE.
7. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING FINISH GRADING AND DRAINAGE AROUND THE BUILDING TO ENSURE SURFACE WATER AND/OR GROUND WATER ARE DIRECTED AWAY FROM THE STRUCTURE.
8. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL VERIFY EXISTING PAVEMENT ELEVATIONS AT INTERFACE WITH PROPOSED PAVEMENTS, AND EXISTING GROUND ELEVATIONS ADJACENT TO DRAINAGE OUTLETS TO ASSURE PROPER TRANSITIONS BETWEEN EXISTING AND PROPOSED FACILITIES.
9. ALL PROPOSED UNDERGROUND UTILITIES SERVING THE SITE AND BUILDINGS TO BE COORDINATED WITH APPLICANT, ARCHITECT, AND ENGINEER PRIOR TO INSTALLATION.
10. ALL TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION INCLUDING ALL REVISIONS.
11. ALL CUT AND FILL AREAS ARE TO BE DONE UNDER THE DIRECTION OF A GEOTECHNICAL ENGINEER WITH TESTING AND CERTIFICATION TO BE PROVIDED TO THE APPLICANT AT THE COMPLETION OF THE PROJECT. DIPRETE ENGINEERING ASSOCIATES, INC. IS NOT PROVIDING THE FILL SPECIFICATION, GEOTECHNICAL ENGINEERING, STRUCTURAL ENGINEERING SERVICES, OR SUPERVISION AS PART OF THESE DRAWINGS.
12. NO STOCKPILING OF MATERIAL TO BE LOCATED IN THE RIGHT OF WAY AND NO OPEN TRENCHES ARE TO BE LEFT OVERNIGHT.
13. ALL LOAM IN DISTURBED AREAS TO BE STOCKPILED FOR FUTURE USE.
14. ALL EXCESS SOIL, TREES, ROCKS, BOULDERS, AND OTHER REFUSE, SHALL BE DISCARDED OFF SITE IN AN ACCEPTABLE MANNER AT AN APPROVED LOCATION. STUMPS SHALL BE GROUND ONSITE OR REMOVED.
15. ALL DRAINAGE MANHOLES SHALL BE RIDOT STANDARD 4.2.0.
16. NO STUMP DUMPS ARE PROPOSED ONSITE.
17. ALL EXISTING UTILITIES SHOWN ARE FROM VISIBLE INFORMATION, DRAWINGS FROM OTHERS, OR INFORMATION PROVIDED TO DIPRETE ENGINEERING AND ARE SUBJECT TO CHANGE. THE LOCATIONS OF UNDERGROUND PIPES AND CONDUITS HAVE BEEN DETERMINED FROM AFOREMENTIONED PLANS OF RECORD AND ARE APPROXIMATE ONLY. PRIOR TO CONSTRUCTION, THE PROPER UTILITY ENGINEERING DEPARTMENTS SHALL BE CONTACTED AND THE ACTUAL LOCATION OF SUBSURFACE STRUCTURES SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR. CALL THE DIG SAFE CENTER TOLL FREE AT 1-888-344-7233 72 HOURS PRIOR TO EXCAVATION. NOTIFY DESIGN ENGINEER OF ANY DISCREPANCIES PRIOR TO EXCAVATION. ANY DAMAGE TO UTILITIES WHICH ARE SHOWN ON THE PLANS OR DETAILED BY DIG SAFE SHALL BE THE SITE CONTRACTORS RESPONSIBILITY.
18. IF CONCRETE TRUCKS ARE WASHED OUT ONSITE, ALL WASHOUT MUST BE COMPLETED IN THE DESIGNATED CONCRETE WASHOUT AREA.
19. ALL ROOF RUNOFF FOR HOMES AND GARAGES FOR LOTS 1 THROUGH 6 WILL BE ROUTED VIA ROOF LEADERS TO UNDERGROUND INFILTRATION BASIN E.

Traffic Notes:

1. DURING CONSTRUCTION TRAFFIC CONES ARE TO BE USED FOR SEPARATION OF ACTIVE TRAFFIC FROM WORK ZONE.
2. DURING CONSTRUCTION FLAGGERS SHALL BE EMPLOYED TO ENSURE SAFETY FOR INTERACTION OF CONSTRUCTION VEHICLES AND ACTIVE TRAFFIC.
3. ALL SIGNS, FLAGGERS, TRAFFIC CONTROL DEVICES, AND TEMPORARY TRAFFIC ZONE ACTIVITIES SHALL MEET THE REQUIREMENTS OF THE MUTCD LATEST EDITION AND SUBSEQUENT ADDENDA.
4. TEMPORARY CONSTRUCTION SIGNS SHALL BE MOUNTED ON RIDOT APPROVED SUPPORTS AND SHALL BE REMOVED OR COVERED WHEN NOT APPLICABLE.
5. ALL TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES CURRENT EDITION.

As-Built Notes:

1. ALL COMPONENTS OF THE DRAINAGE MUST BE ASBUILT PRIOR TO COVERING. ENGINEER TO BE NOTIFIED PRIOR TO COVERING SURVEY ASBUILT LOCATIONS. ENGINEER WILL NOT ACCEPT FIELD MEASUREMENTS FROM THE SITE CONTRACTOR.

UIC Notes:

PROPOSED UNDERGROUND DRAINAGE SYSTEM MEETS ALL THE FOLLOWING UIC MINIMUM SETBACK REQUIREMENTS:

1. 400 FEET FROM ALL PUBLIC WATER WELLS (SAND & GRAVEL)
2. 200 FEET FROM ALL PUBLIC WATER WELLS (BEDROCK)
3. 200 FEET FROM ALL SURFACE DRINKING WATER SUPPLY IMPOUNDMENTS
4. 100 FEET FROM ALL PRIVATE DRINKING WATER WELLS
5. 100 FEET FROM ALL OTHER SURFACE WATERS
6. 25 FEET FROM ALL OWTS & OTHER GROUNDWATER DISCHARGE SYSTEMS
7. 25 FEET FROM ALL BUILDING FOUNDATIONS IF SYSTEM IS ABOVE SLAB ELEVATION.
8. 10 FEET FROM ALL PROPERTY LINES
9. 10 FEET FROM ALL BUILDING FOOTINGS

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Grading & Utilities Legend:

- EX MAJOR FOOT CONTOUR — 160
- EX MINOR FOOT CONTOUR — 158
- PR FOOT CONTOUR — 310
- DRAIN LINE
- SEWER LINE — S — S
- ROOF LEADER — RL — RL
- CATCH BASIN
- MANHOLE
- UNDERGROUND INFILTRATION BASIN OUTLINE
- WATER LINE — W — W
- WATER VALVE
- THRUST BLOCK
- HYDRANT
- WATER CURB STOP

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0	3/30/2016	RIDEM Wetland Submission		DRR

Grading Plan
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SHEET 5 OF 10

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

Plan - Tarn Street

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Profile - Tarn Street

Vertical: 0 2' 4' 8'
Horizontal: 0 20' 40' 80'

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Office of Water Resources
Office of Water Resources

No.	Date	Description	By:
8	1/2/2019	RIDEM Permit Modification Response to Comments	MSC
7	11/28/2018	RIDEM Permit Modification Submission	MSC
6	10/26/2018	RIDEM Permit Modification Submission	S.E.K.
5	3/29/2018	Draft grading plan	S.E.K.
4	9/6/2016	Town Engineer Review Submission	MSC
3	8/4/2016	RIDEM Wetlands Re-Submission	MSC
2	6/1/2016	RIDEM Wetlands Submission	MSC
1	2/10/2016	RIDEM Wetland Submission	DRN

Drawn By: SEK | Designed by: BCG

Plan and Profile

Wilson & Tarn Street Development

Assessor's Plat 57-1, Lots 121, 122 & 146
South Kingstown, Rhode Island

Prepared For:
South County Post & Beam Inc.
521 Liberty Lane
West Kingston, RI 02892 Tel (401) 783-4415

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SHEET 6 OF 10

z:\demain\projects\2214-001 oak street\autocad drawings\2214-001-desn.dwg Plotted: 1/2/2019

General Notes:

1. ALL EROSION CONTROL MEASURES ETC. SHALL BE INSTALLED PER THE RHODE ISLAND SOIL EROSION AND SEDIMENTATION CONTROL LATEST EDITION.
2. SILT FENCE OR AN APPROVED EROSION EROSION CONTROL SHALL BE USED TO CONTROL RUNOFF DURING CONSTRUCTION OF THE SITE.
3. VEHICLE MAINTENANCE AND WASHING SHALL OCCUR OFF-SITE.
4. CONCRETE WASHOUT AREAS TO BE LOCATED AT STOCKPILE AREA AS NEEDED.
5. CONTRACTOR MAY MODIFY SEQUENCE OF CONSTRUCTION WITH APPROVAL FROM DESIGN ENGINEER.
6. INFILTRATION AREAS SHALL BE STAKED OFF, DEMARCATED AND PROTECTED FROM CONSTRUCTION TRAFFIC DURING ALL CONSTRUCTION PHASES.

Phase 1A – INSTALL EROSION CONTROL SILT FENCE & STONE CONSTRUCTION ENTRANCE. CLEAR & GRUB. PROTECT INFILTRATION AREAS FROM CONSTRUCTION TRAFFIC AND RUNOFF. INSTALL DRAINAGE & UTILITIES. CONSTRUCT PROPOSED ROADWAY.

Phase 1B – INDIVIDUAL LOT CONSTRUCTION

Cleveland Street (PUBLIC – 50' WIDE R.O.W.)

Oak Street (PUBLIC – 50' WIDE R.O.W.)

Tarn Street

Lot 1 | Lot 2 | Lot 3 | Lot 4 | Lot 5 | Lot 6 | Lot 7 | Lot 8

AP 57-1 LOT 115 | AP 57-1 LOT 116 | AP 57-1 LOT 117 | AP 57-1 LOT 118 | AP 57-1 LOT 123 | AP 57-1 LOT 124 | A.P. 57-1 LOT 108 | A.P. 57-1 LOT 107 | AP 57-1 LOT 149 | AP 57-1 LOT 148 | AP 57-1 LOT 147 | AP 57-1 LOT 145 | AP 57-1 LOT 144 | AP 57-1 LOT 143 | AP 57-1 LOT 142 | AP 57-1 LOT 141 | AP 57-1 LOT 139 | AP 57-1 LOT 138 | AP 57-1 LOT 140 | AP 57-1 LOT 228 | AP 57-1 LOT 125 | AP 57-1 LOT 220

TH-1 7.0' GWT | TH-2 7.0' GWT | TH-3 8.0' GWT | TH-4 8.1' GWT | TH-5 6.0' GWT | TH-6 8.0' GWT | TH-7 8.0' GWT | TH-8 8.0' GWT

EXPANDED EX LOW AREA TO STAKED OUT PRIOR TO CONSTRUCTION TO PROTECT AREAS FROM CONSTRUCTION TRAFFIC

UNDERGROUND INFILTRATION SYSTEM E

APPROXIMATE PHASE 1 STOCKPILE AREA AND VEHICLE STORAGE.

CONSTRUCTION ENTRANCE

EX SMH RIM=36.56 INV=30.76

EX SMH RIM=43.41 INV=31.87

LIMIT OF DISTURBANCE (TYP)

SILT FENCE (9.2.0-TYP)

SYSTEM SHALL BE STAKED OUT PRIOR TO CONSTRUCTION TO PROTECT AREAS FROM CONSTRUCTION TRAFFIC

INFILTRATION AREA F

INFILTRATION POND D

FORESTED WETLAND LESS THAN 3 ACRES

SYSTEM SHALL BE STAKED OUT PRIOR TO CONSTRUCTION TO PROTECT AREAS FROM CONSTRUCTION TRAFFIC

Legend:

EX MAJOR FOOT CONTOUR — 160 —

EX MINOR FOOT CONTOUR — 158 —

PR FOOT CONTOUR — 310 —

DRAIN LINE

SEWER LINE — S — S —

ROOF LEADER — RL — RL —

CATCH BASIN

MANHOLE

Scale: 1"=40'

0 20' 40' 80'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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DiPrete Engineering
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Boston • Providence • Newport

DAVID A. RUSSO
No. 11355
REGISTERED PROFESSIONAL ENGINEER
CIVIL

Environmental Management
JAN 4 2019
Office of Water Resources

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1	6/23/2016	RIDEM Wetlands Re-Submission	MSC
0	2/10/2016	RIDEM Wetland Submission	JMH

Drawn By: SEK | Designed by: BCG

Soil Erosion & Sediment Control Plan

Wilson & Tarn Street Development

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SHEET 7 OF 10

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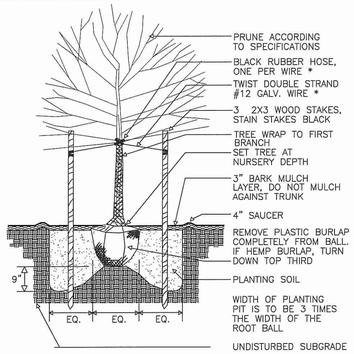
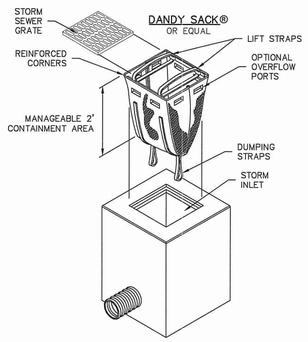


TREE PLANTING DETAIL TO BE REMOVED WITHIN ONE YEAR

NOT TO SCALE



Inlet Sediment Control Devices

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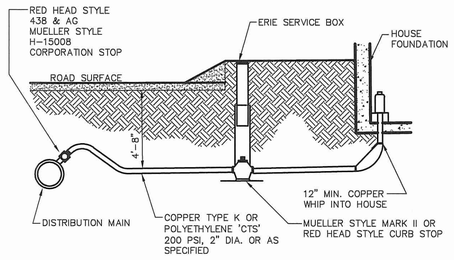
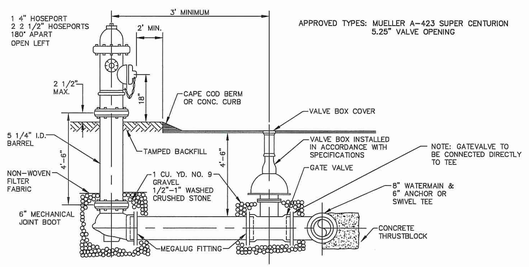
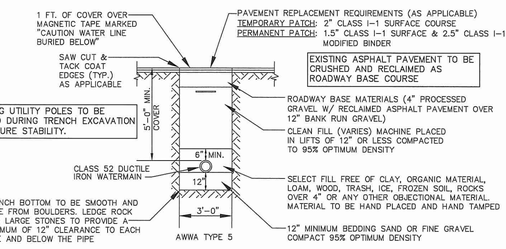


TYPICAL 2" OR SMALLER WATER SERVICE N.T.S.

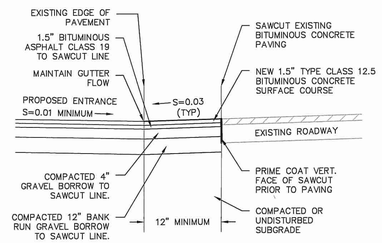


AWWA C502 DRY BARREL FIRE HYDRANT N.T.S.



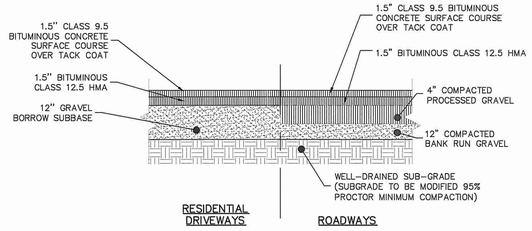
WATER TRENCH DETAIL N.T.S.

NOTE:
MINIMUM COMPACTION FOR GRAVEL SUBBASE OR SUBGRADE: 95% MODIFIED PROCTOR.



Entrance Access Sawcut & Match

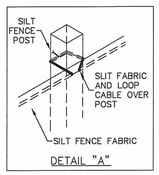
NOTE:
THIS PAVEMENT SECTION DETAIL REFLECTS MINIMUM REQUIREMENTS. ENGINEER TO DETERMINE DESIGN BASED ON GEO-TECHNICAL DATA OF SPECIFIC PROJECT AND DAILY TRAFFIC DESIGN REQUIREMENT.

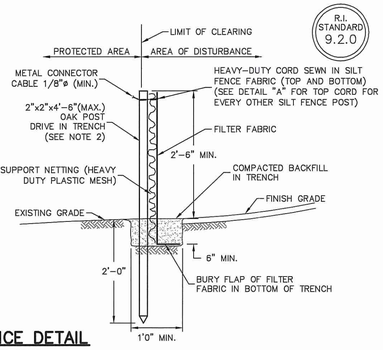


TYPICAL PAVEMENT SECTION

NOT TO SCALE

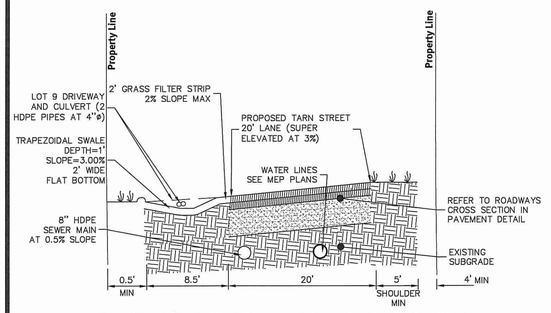
NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE R.I. STANDARD SPECIFICATIONS.
2. 2"x2"x4'-6"(MAX.) OAK POSTS FOR SILT FENCE SHALL BE LOCATED 8'-0" (MAX.) O.C. IN WETLAND AREAS AND 4'-0" (MAX.) O.C. IN WETLAND RAVINE, GULLY OR DROP-OFF AREAS AS SHOWN ON PLANS.
3. 1"x1"x4'-6"(MIN.) POSTS PERMITTED FOR PRE-FABRICATED SILT FENCE.
4. SILT FENCE SHALL BE INSTALLED BEFORE ANY GRUBBING OR EARTH EXCAVATION TAKES PLACE.





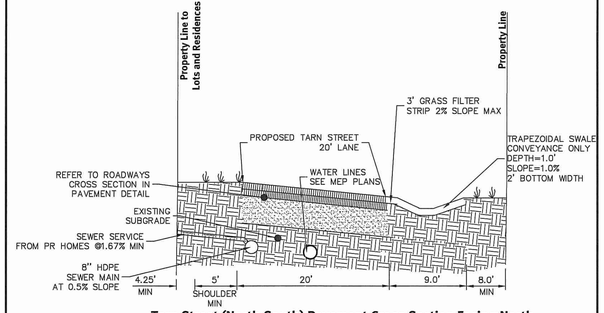
SILT FENCE DETAIL

NOT TO SCALE



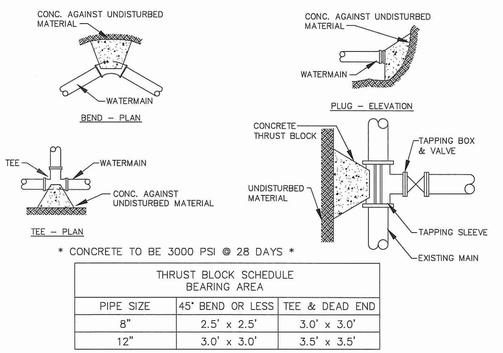
Tarn Street (East/West) Pavement Cross Section Facing West

(NOT TO SCALE)



Tarn Street (North South) Pavement Cross Section Facing North

(NOT TO SCALE)



* CONCRETE TO BE 3000 PSI @ 28 DAYS *

THRUST BLOCK SCHEDULE BEARING AREA		
PIPE SIZE	45° BEND OR LESS	TEE & DEAD END
8"	2.5' x 2.5'	3.0' x 3.0'
12"	3.0' x 3.0'	3.5' x 3.5'

THRUST BLOCK DETAILS N.T.S.

WATER NOTES

1. ALL WORK AND MATERIAL OF WATER LINE SHALL BE IN ACCORDANCE WITH RULES AND REGULATIONS SET FORTH BY SUEZ WATER. INSTALLATION PROCEDURES AND MATERIALS TO CONFORM TO SUEZ WATER, AWWA SPECIFICATIONS AND ART. III OF THE SOUTH KINGSTOWN TOWN ORDINANCES. A PRECONSTRUCTION MEETING SHALL BE HELD PRIOR TO ORDER OF MATERIALS AND WATER MAIN INSTALLATION.
2. WATER MAIN INSTALLATION SHALL BE INSPECTED BY SUEZ WATER PRIOR TO BACKFILLING THE TRENCH.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING SUEZ WATER FIVE (5) DAYS PRIOR TO START OF CONSTRUCTION.
4. CHLORINATION OF SYSTEM AND SAMPLING SHALL CONFORM TO AWWA REQUIREMENTS FOR SERVICE AND MAIN INSTALLATIONS.
5. THE CONTRACTOR SHALL NOTIFY THE DIRECTOR OF WATER SUPPLY AT LEAST TWO WORKING DAYS IN ADVANCE FOR FINAL INSPECTION.
6. WHENEVER, IN THESE SPECIFICATIONS, REFERENCE IS MADE TO THE REQUIREMENTS OF AWWA, ANSI, ASTM OR ANY OTHER STANDARD SPECIFICATION, THE REFERENCE IS MADE TO THE LATEST REVISIONS OR MODIFICATIONS OF SUCH REQUIREMENTS AND SPECIFICATIONS.
7. ALL PIPE, FITTINGS, AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH AWWA AND ANSI STANDARDS AND THE MANUFACTURER'S SUGGESTED RECOMMENDATIONS FOR INSTALLATIONS.
8. PIPELINES SHALL BE CONSTRUCTED IN DRY TRENCHES AND LAID TO THE LINE GRADE. WHENEVER PIPE IS TO BE INSTALLED IN SATURATED SOIL CONDITIONS A BEDDING OF PROCESSED GRANULAR FILTER MATERIAL SHALL BE PROVIDED.
9. ALL BENDS, CROSSES, TEES, END CAPS AND PLUGS, VALVES AND ANY OTHER APPURTENANCES SHALL BE RESTRAINED WITH THRUST BLOCKS, STRAPPING OR ANCHORS.
10. JOINTING OF MECHANICAL AND PUSH ON TYPE JOINTS SHALL BE PERFORMED IN STRICT ACCORDANCE WITH AWWA STANDARD C-600, SUEZ WATER AND SOUTH KINGSTOWN SPECIFICATIONS. RUBBER GASKETS AND RINGS SHALL BE SUITABLE FOR USE WITH POTABLE WATER AND THOROUGHLY CLEANED TO REMOVE OIL, GRIT, AND OTHER FOREIGN MATTER PROIR TO ASSEMBLY. THE GASKETS SHALL BE INSPECTED BY THE DIRECTOR OF WATER SUPPLY OR HIS AGENT TO INSURE THAT THEY ARE ACCEPTABLE.
11. ALL FITTINGS USED FOR SERVICE CONNECTIONS SHALL BE IN ACCORDANCE WITH AWWA C-800, SUEZ WATER, AND SOUTH KINGSTOWN SPECIFICATIONS.
12. VALVES USED SHALL BE IN ACCORDANCE WITH AWWA C-500 SERIES, SUEZ WATER, AND THE TOWN OF SOUTH KINGSTOWN REGULATIONS. VALVES SHALL BE MECHANICAL JOINT, DOUBLE DISC PARALLEL SEAT OR RESILLENT SEAT GATE STYLES AS FOLLOWS:
    a. MUELLER CORPORATION STOP DOUBLE DISC PARALLEL SEAT.
    b. AMERICAN DARLING VALVE RESILENT MODEL CRS-80.
13. BLOW-OFF ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH AWWA C-800 SERIES, SUEZ WATER, AND THE TOWN OF SOUTH KINGSTOWN.
14. FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH MUELLER A421, AWWA C-502 "DRY BARREL FIRE HYDRANTS" , SUEZ WATER, AND TOWN SPECIFICATIONS.
15. HYDROSTATIC AND LEAKAGE TESTS SHALL BE PERFORMED ON ALL COMPLETED SECTIONS OF NEWLY INSTALLED PIPELINE IN ACCORDANCE WITH AWWA C-600, SUEZ WATER, AND TOWN SPECIFICATIONS.
16. ALL PIPE SHALL BE DISINFECTED PRIOR TO BEING ACTIVATED IN ACCORDANCE WITH AWWA B-300, AWWA C-601, SUEZ WATER, AND TOWN SPECIFICATIONS.
17. DISTRIBUTION PIPING SHALL BE CL 52 DUCTILE IRON, DOUBLE CEMENT LINED, WITH PUSH ON JOINTS. PIPE SHALL MEET ANSI/AWWA C151 A21.51. JOINTS SHALL MEET ANSI/AWWA /C111/A21.11. AMERICAN MANUFACTURER ONLY.
18. FITTINGS SHALL BE DUCTILE IRON MECHANICAL JOINT CL350 CEMENT MORTAR LINED AND MEET ANSI/AWWA/C153/A21.53. MECHANICAL JOINTS SHALL MEET ANSI/AWWA/C111/A21.11 AMERICAN MANUFACTURER ONLY.
19. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL STATE AND TOWN PERMITS PRIOR TO CONSTRUCTION.
20. THE CONTRACTOR IS RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS RELATED TO INSTALLATION OF THE WATER MAIN.
21. EXCAVATIONS THAT EXTEND INTO PUBLIC RIGHT -OF-WAY SHALL BE BACKFILLED AND COMPACTED IN 12" LIFTS. A TEMPORARY SURFACE COURSE IS TO BE APPLIED. FINAL BINDER AND FINISH COURSE TO BE PLACED AFTER REMOVAL OF TEMPORARY PAVEMENT AND COMPACTION OF GRAVEL BASE. CONTRACTOR SHALL MAKE ROAD PASSABLE FOR ONE LANE OF TRAFFIC AT ALL TIMES.
22. CONTRACTOR SHALL NOTIFY DIG SAFE PRIOR TO DIGGING ANY TRECHES.
23. WHEN WORK IS NOT IN PROGRESS AND AT THE END OF EACH DAY, ALL OPEN ENDS OF THE PIPE AND FITTINGS SHALL BE SECURELY CLOSED.
24. DIPRETE ENGINEERING DOES NOT CERTIFY AS TO FUTURE WATER FLOW RATES OR RESIDUAL PRESSURE OF THIS WATER MAIN EXTENSION.

RECEIVED
RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JAN 1 8 2018 FILE #
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

LEAKAGE AND PRESSURE TESTING FOR WATERMAINS

GENERAL

1. HYDROSTATIC AND LEAKAGE TESTS SHALL BE PERFORMED ON ALL COMPLETED SECTIONS OF NEWLY INSTALLED WATERMAIN PIPELINE IN ACCORDANCE WITH AWWA C600, THE TOWN OF SOUTH KINGSTOWN, AND AS SPECIFIED BELOW.

   THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL LABOR, TOOLS AND EQUIPMENT NECESSARY FOR TESTING.

TESTING PROCEDURES

2. ALL AIR SHALL BE EXPELLED AT THE HIGH POINTS AND THE PIPELINE SLOWLY FILLED WITH POTABLE WATER.

   THE INTERNAL PRESSURE SHALL BE BUILT UP TO 150 PSI AND MAINTAINED FOR A PERIOD OF NOT LESS THAN ONE (1) HOUR.

   ALL LEAKS IN THE PIPELINE SHALL BE STOPPED; CRACKED OR DEFECTIVE PIPE, FITTINGS OR ACCESSORIES SHALL BE REMOVED AND REPLACED WITH NEW BY THE CONTRACTOR.

   THE PIPELINE SHALL BE RETESTED AS MAY BE REQUIRED AND NECESSARY UNTIL THE LEAKAGE FALLS WITHIN THE ALLOWABLE DETERMINED FOR THE PIPE NETWORK, AT WHICH TIME THE PIPELINE MAY BE CONSIDERED READY FOR:

   a. WATERMAINS – DISINFECTION STEP

ALL STORM WATER, DRAINAGE AND SANITARY SEWER SHOP DRAWINGS SHALL BE SUBMITTED TO SOUTH KINGSTOWN PUBLIC SERVICES DEPARTMENT FOR APPROVAL PRIOR TO INSTALLATION AND ALL SHOP DRAWINGS RELATIVE TO THE WATER DISTRIBUTION SYSTEM SHALL REQUIRE UNITED WATER APPROVAL PRIOR TO INSTALLATION.

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Boston • Providence • Newport

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No. 13355
REGISTERED PROFESSIONAL ENGINEER
CIVIL

Environmental Management
JAN 4 2018
Office of Water Resources

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0	2/10/2016	RIDEM Wetlands Submission	BRH

Detail Sheet - 1

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SHEET 8 OF 10

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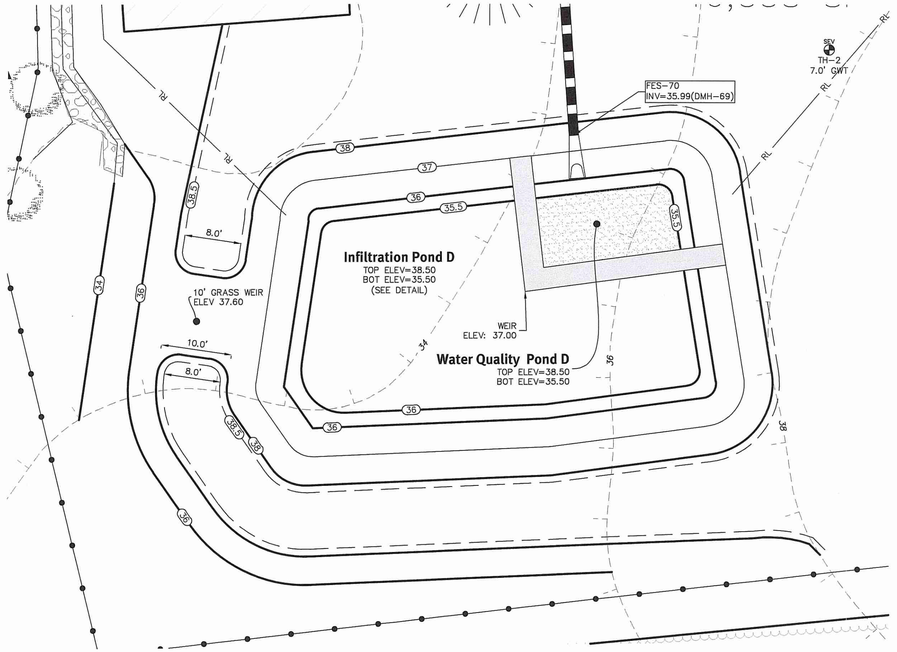
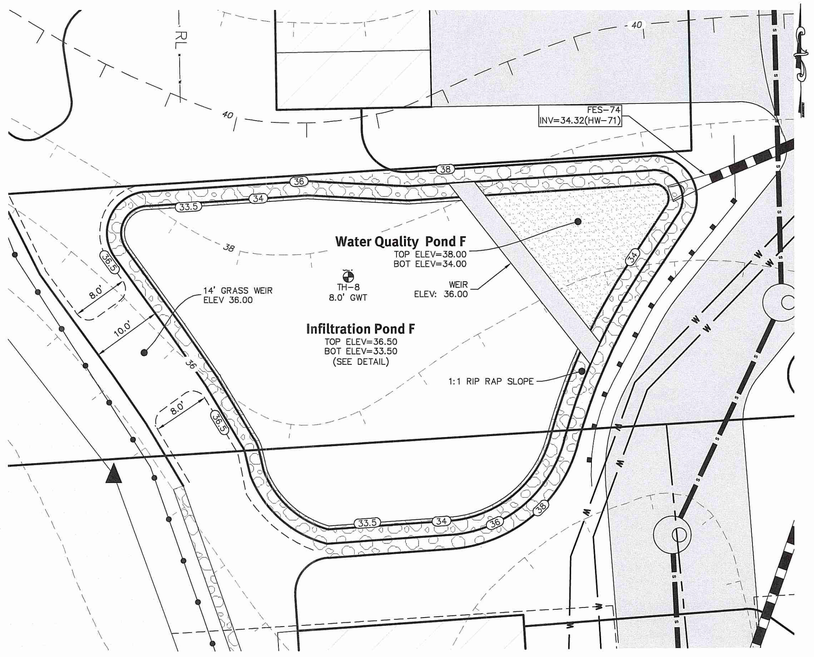


Scale: 1"=10'

0 5' 10' 20'

Infiltration Area D

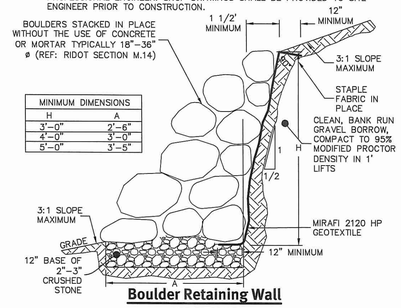


Scale: 1"=10'

0 5' 10' 20'

Infiltration Area F

NOTES:
1. FOOTING TO BE COMPACTED TO 95% AND SLOPED TOWARDS EMBANKMENT OR LAID LEVEL.
2. REMOVE AND DISPOSE TOP AND SUB SOIL.
3. PLACE ON NATURE ORGANIC FREE SURFACE.
4. RETAINING WALLS GREATER THAN 5' HIGH TO BE DESIGNED BY A RI PROFESSIONAL ENGINEER. SHOP DRAWINGS SHALL BE PROVIDED TO SITE ENGINEER PRIOR TO CONSTRUCTION.

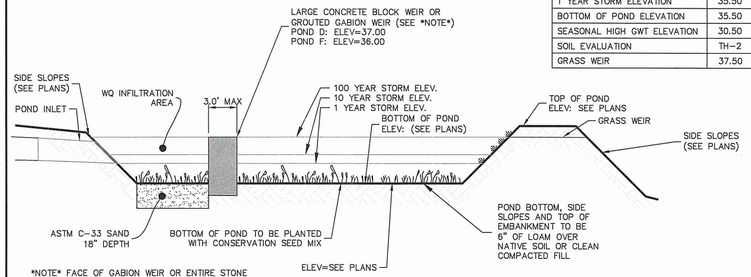


MINIMUM DIMENSIONS	
H	A
3'-0"	2'-6"
4'-0"	3'-0"
5'-0"	3'-5"

Boulder Retaining Wall

NOT TO SCALE

DESCRIPTION	POND D	POND F
TOP OF POND ELEVATION	38.50	36.50
100 YEAR STORM ELEVATION	37.31	35.78
10 YEAR STORM ELEVATION	35.58	33.74
1 YEAR STORM ELEVATION	35.50	33.50
BOTTOM OF POND ELEVATION	35.50	33.50
SEASONAL HIGH GWT ELEVATION	30.50	29.50
SOIL EVALUATION	TH-2	TH-8
GRASS WEIR	37.50	36.00



NOTE FACE OF GABION WEIR OR ENTIRE STONE GABION WEIR TO BE GROUTED. THE STONE GABION WEIR SHOULD BE GROUTED TO ENSURE NO WATER MAY PASS LATERALLY THROUGH THE WEIR.

Infiltration Pond D & F

NOT TO SCALE

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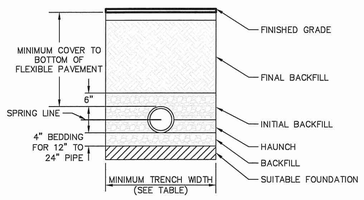
INSTALLATION NOTES:

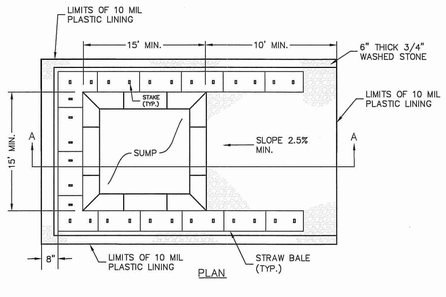
1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS, LATEST ADDITION.
2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
3. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
4. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100MM) FOR 4"-24" (100MM-600MM); 6" (150MM) FOR 30"-60" (750MM-900MM).
5. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
6. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" ø PIPE AND 24" OF COVER FOR 54"-60" ø PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.

PIPE ø	MINIMUM TRENCH WIDTH
6"	23"
8"	26"
12"	30"
15"	34"
24"	39"

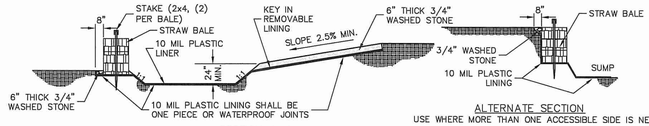


HDPE Trench Detail

NOT TO SCALE



PLAN



SECTION A-A

ALTERNATE SECTION
USE WHERE MORE THAN ONE ACCESSIBLE SIDE IS NEEDED

CONCRETE WASHOUT AREA

(NOT TO SCALE)

NOTES:

1. PIT IS SPECIFICALLY DESIGNATED, DIKED AND IMPERVIOUS CONTAINMENT TO PREVENT CONTACT BETWEEN CONCRETE WASH AND STORMWATER.
2. WASH WATER SHALL NOT BE ALLOWED TO FLOW TO SURFACE WATER.
3. FACILITY MUST HOLD SUFFICIENT VOLUME TO CONTAIN CONCRETE WASTE WITH A MINIMUM FREEBOARD OF 12."
4. FACILITY SHALL NOT BE FILLED BEYOND 95% CAPACITY UNLESS A NEW FACILITY IS CONSTRUCTED.
5. SAW CUT PORTLAND CEMENT CONCRETE, RESIDUE FROM SAWCUT & GRINDING TO BE DISPOSED OF IN THE PIT.
6. CONCRETE WASHOUTS SHALL BE LOCATED A MINIMUM OF 100' FROM DRAINAGE WAYS, INLETS, & SURFACE WATERS.
7. MANUFACTURED CONCRETE WASHOUT DEVICES MAY BE USED IF REMOVED FROM THE SITE WHEN 95% FULL CAPACITY.

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Received
JAN 4 2019
Office of Water Resources

No.	Date	Description	By:
8	1/9/2019	RIDEM Permit Modification Response to Comments	MSC
7	11/28/2018	RIDEM Permit Modification Response to Comments	MSC
6	5/3/2018	RIDEM Permit Modification Submission	SEK
5	12/14/2016	Fire Department Review Submission	MSC
4	10/4/2016	Fire Department Review Submission	MSC
3	9/6/2016	RIDEM Wetlands Review Submission	MSC
2	8/5/2016	RIDEM Wetlands Review Submission	MSC
1	6/21/2016	RIDEM Wetlands Re-Submission	MSC
0	2/1/2016	RIDEM Wetlands Submission	MSC

Designed by: BCG
Drawn By: SEK

Detail Sheet - 2

Wilson & Tarn Street Development

Assessor's Plat 57-1, Lots 121, 122 & 146
South Kingstown, Rhode Island

Prepared For:
South County Post & Beam Inc.
521 Liberty Lane
West Kingston, RI 02892
Tel (401) 783-4415

SHEET 9 OF 10

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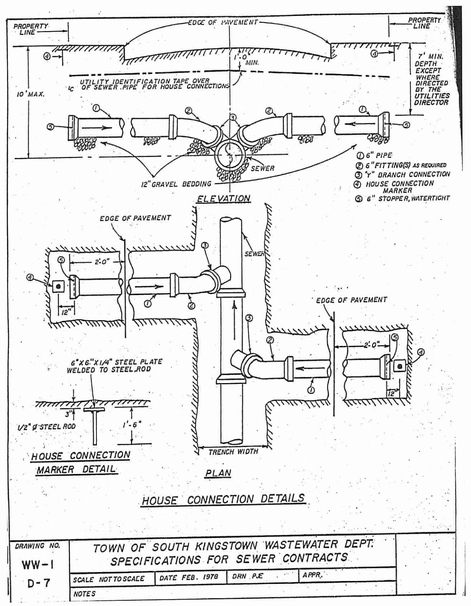
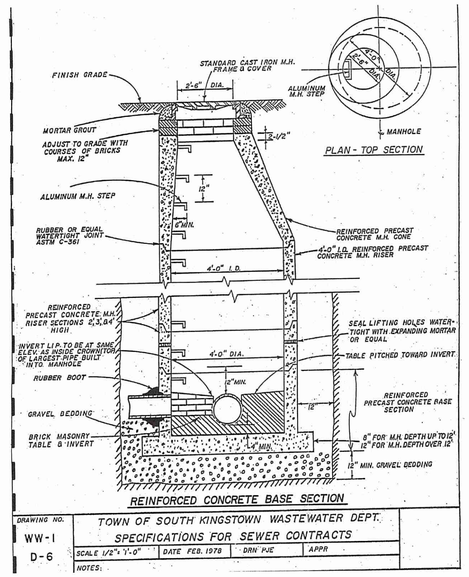
z:\deman\projects\2214-001 oak street\autocad drawings\2214-001-desn.dwg Plotted: 1/2/2019



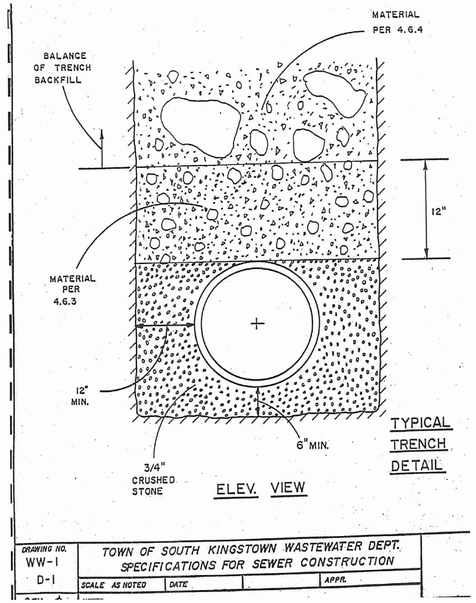
HOUSE CONNECTION DETAILS

DRAWING NO.	TOWN OF SOUTH KINGSTOWN WASTEWATER DEPT. SPECIFICATIONS FOR SEWER CONTRACTS			
WW-1 D-7	SCALE NOT TO SCALE	DATE FEB. 1979	DRN PJE	APPR.
	NOTES			



REINFORCED CONCRETE BASE SECTION

DRAWING NO.	TOWN OF SOUTH KINGSTOWN WASTEWATER DEPT. SPECIFICATIONS FOR SEWER CONTRACTS			
WW-1 D-6	SCALE 1/2"= 1'-0"	DATE FEB. 1979	DRN PJE	APPR
	NOTES:			



DRAWING NO.	TOWN OF SOUTH KINGSTOWN WASTEWATER DEPT. SPECIFICATIONS FOR SEWER CONSTRUCTION			
WW-1 D-1	SCALE AS NOTED	DATE		APPR.

Sewer Line/Water Main Separation Policy For Design Of Sanitary Sewers

A. LATERAL PLACEMENT OF SEWERS AND WATER MAINS

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

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

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

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

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

B. SEWERS CROSSING WATER MAINS

SEWERS CROSSING OVER WATER MAINS SHOULD BE AVOIDED, BUT IF CONDITIONS WARRANT THIS SITUATION, THEN ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO MAINTAIN LINE AND GRADE. SEWERS CROSSING UNDER WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL SEPARATION OF 18" BETWEEN THE INVERT OF THE WATER MAIN AND THE CROWN OF THE SEWER. THE CROSSING SHALL BE ARRANGED SO THAT SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS.

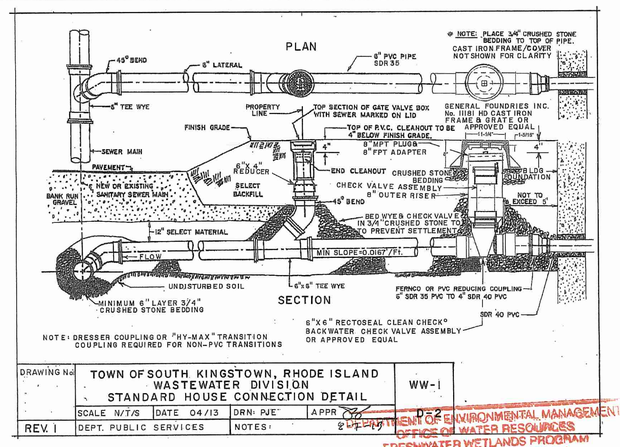
WHERE CONDITIONS PREVENT AN 18" VERTICAL SEPARATION FROM BEING MAINTAINED, THE FOLLOWING METHODS SHALL BE SPECIFIED:

A. THE SEWER SHALL BE DESIGNED AND CONSTRUCTED EQUAL TO WATER MAIN PIPE (CEMENT-LINED DUCTILE IRON PIPE, PVC OR OTHER AWWA APPROVED MATERIAL FOR POTABLE WATER CONVEYANCE) FOR A DISTANCE OF 12' ON EACH SIDE OF THE CROSSING, MEASURED PERPENDICULAR TO THE WATER MAIN AND PRESSURE TESTED IN ACCORDANCE WITH AWWA SPECIFICATIONS, OR

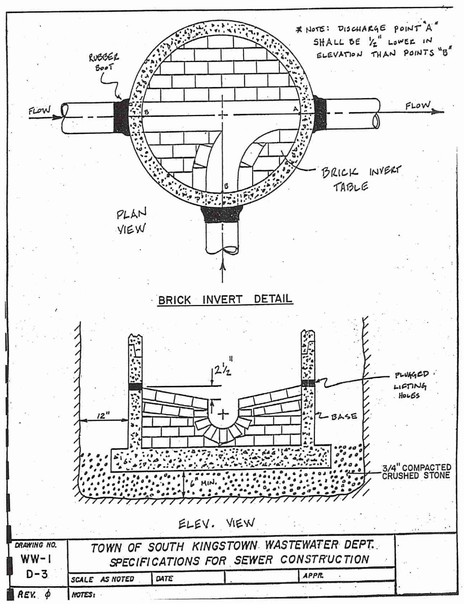
B. EITHER THE WATER MAIN OR THE SEWER MAY BE ENCASED IN CONCRETE (MINIMUM 6" THICKNESS) OR A CARRIER PIPE FOR A DISTANCE OF 12' ON EACH SIDE OF THE CROSSING, MEASURED PERPENDICULAR TO THE WATER MAIN. THE CARRIER PIPE SHALL BE DESIGNED AND CONSTRUCTED OF MATERIALS WHICH ARE SATISFACTORY TO THE DIVISION, OR

C. ANY OTHER METHODS, IF SUPPORTED BY DATA FROM THE DESIGN ENGINEER, WHICH ENSURE ADEQUATE WATER TIGHTNESS AND ARE SATISFACTORY TO THE DIVISION.

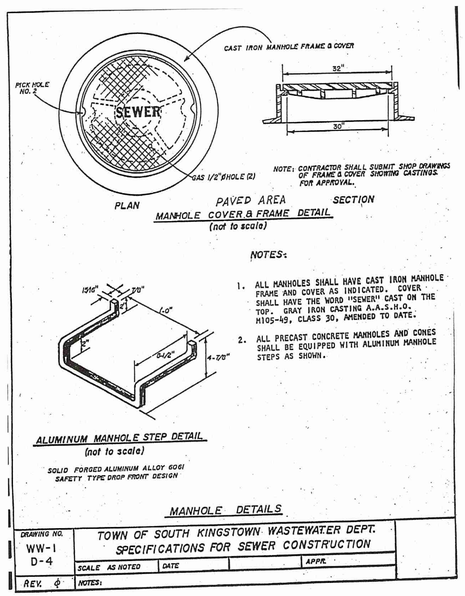
ALL STORM WATER, DRAINAGE AND SANITARY SEWER SHOP DRAWINGS SHALL BE SUBMITTED TO SOUTH KINGSTOWN PUBLIC SERVICES DEPARTMENT FOR APPROVAL PRIOR TO INSTALLATION AND ALL SHOP DRAWINGS RELATIVE TO THE WATER DISTRIBUTION SYSTEM SHALL REQUIRE UNITED WATER APPROVAL PRIOR TO INSTALLATION.



DRAWING No.	TOWN OF SOUTH KINGSTOWN, RHODE ISLAND WASTEWATER DIVISION STANDARD HOUSE CONNECTION DETAIL				WW-1
	SCALE N/T/S	DATE 04/13	DRN: PJE	APPR	D-2
REV. 1	DEPT. PUBLIC SERVICES	NOTES:			8-17-2015

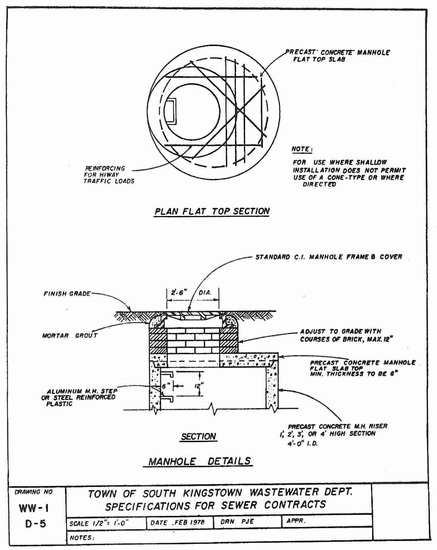


DRAWING NO.	TOWN OF SOUTH KINGSTOWN WASTEWATER DEPT. SPECIFICATIONS FOR SEWER CONSTRUCTION			
WW-1 D-3	SCALE AS NOTED	DATE		APPR.
REV. ϕ	NOTES:			

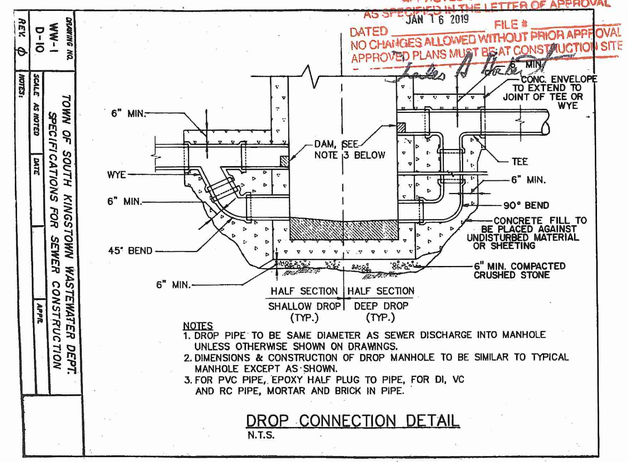


MANHOLE DETAILS

DRAWING NO.	TOWN OF SOUTH KINGSTOWN WASTEWATER DEPT. SPECIFICATIONS FOR SEWER CONSTRUCTION			
WW-1 D-4	SCALE AS NOTED	DATE		APPR.
REV. ϕ	NOTES:			



DRAWING NO.	TOWN OF SOUTH KINGSTOWN WASTEWATER DEPT. SPECIFICATIONS FOR SEWER CONTRACTS			
WW-1 D-5	SCALE 1/2"= 1'-0"	DATE FEB 1978	DRN PJE	APPR.
	NOTES:			



NOTES
1. DROP PIPE TO BE SAME DIAMETER AS SEWER DISCHARGE INTO MANHOLE UNLESS OTHERWISE SHOWN ON DRAWINGS.
2. DIMENSIONS & CONSTRUCTION OF DROP MANHOLE TO BE SIMILAR TO TYPICAL MANHOLE EXCEPT AS SHOWN.
3. FOR PVC PIPE, EPOXY HALF PLUG TO PIPE, FOR DI, VC AND RC PIPE, MORTAR AND BRICK IN PIPE.

DROP CONNECTION DETAIL
N.T.S.

DRAWING NO.	TOWN OF SOUTH KINGSTOWN WASTEWATER DEPT. SPECIFICATIONS FOR SEWER CONSTRUCTION			
WW-1 D-10	SCALE AS NOTED	DATE		APPR.
REV. ϕ	NOTES:			

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CIVIL
STATE OF RHODE ISLAND

RECEIVED
JAN 4 2019
Office of Water Resources

No.	Date	Description	Drawn By: SEK / Designed By: BCG
8	1/2/2019	RIDEM Permit Modification Response to Comments	MSC
7	11/30/2018	RIDEM Permit Modification Submission	MSC
6	5/9/2018	RIDEM Permit Modification Submission	S.E.K.
5	12/04/2016	Draft Pendtive Edits	M.S.C.
4	11/16/2016	Town Engineer Review Submission	MSC
3	9/6/2016	Town Engineer Review Submission	MSC
2	8/4/2016	RIDEM Wetlands Re-Submission	MSC
1	6/24/2016	RIDEM Wetlands Submission	DBS
0	2/10/2016	RIDEM Wetland Submission	DBS

Detail Sheet - 3
Wilson & Tarn Street Development
Assessor's Plat 57-1, Lots 121, 122 & 146
South Kingstown, Rhode Island
Prepared For:
South County Post & Beam Inc.
521 Liberty Lane
West Kingston, RI 02892 Tel (401) 783-4435

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SHEET 10 OF 10

STATE OF RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF WATER RESOURCES FRESHWATER WETLANDS PROGRAM APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
JAN 16 2019
DATED _____ FILE #
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

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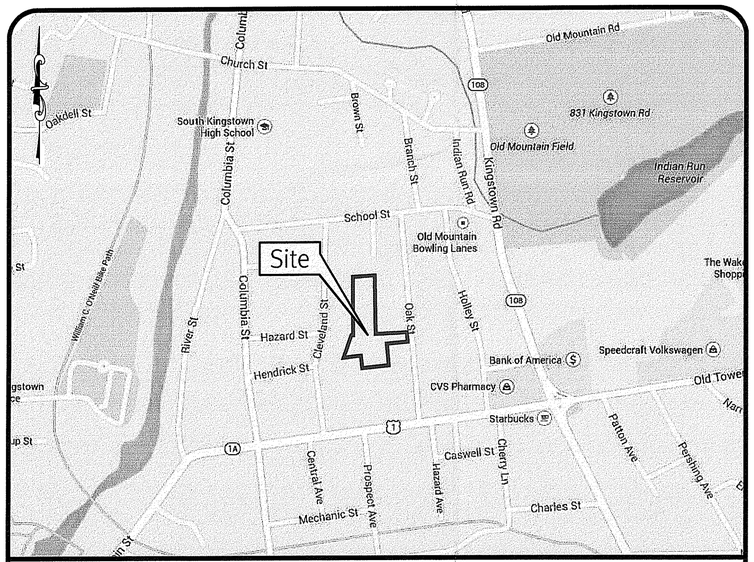
Preliminary Determination Modification

Wilson & Tarn Street Development

South Kingstown, Rhode Island

Assessor's Plat 57-1 Lots 121, 122 & 146



Location Map

Sheet Index

1. Cover Sheet
2. Aerial Half Mile Radius Plan
3. Existing Conditions Plan
4. Site Plan
5. Grading Plan
6. Plan & Profile
7. Soil Erosion & Sediment Control Plan
8. Detail Sheet - 1
9. Detail Sheet - 2
10. Detail Sheet - 3

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED DEC 19 2017 FILE # 16-0028
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

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SESC / O&M
The Soil Erosion and Sediment Control Plan (SESC) and Operations and Maintenance Plan (O&M) are required documents with this plan set and must be maintained by the contractor and owner onsite.

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No.	Date	Description	By:
4	11/16/2017	RIDEM Responses to Comments	BCG
3	9/22/2017	RIDEM Wetlands Modifications	BCG
2	8/4/2016	RIDEM Wetlands Resubmission	MSC
1	3/15/2016	RIDEM Wetland Submission	MSC
0	2/12/2016	RIDEM Wetland Submission	DSN

Drawn By: SEK | Designed by: BCG

Cover Sheet
Wilson & Tarn Street Development
Assessor's Plat 57-1, Lots 121, 122 & 146
South Kingstown, Rhode Island
Prepared For
South County Post & Beam Inc.
521 Liberty Lane
West Kingston, RI 02892 Tel (401) 783-4445

SHEET 1 OF 10

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USGS Map Scale: 1"=1000'

Photo obtained from the RI-GIS.

Scale: 1"=500'
0 250' 500' 1000'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED DEC 19 2017 FILE # 16-0028
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No.	Date	Description	By:
1	10/26/2017	RIDEM Response to Comments	BCG
2	9/15/2016	RIDEM Wetlands Submission	BCG
3	8/4/2016	RIDEM Wetlands Resubmission	BCG
4	6/21/2016	RIDEM Wetlands Resubmission	BCG
5	5/10/2016	RIDEM Wetlands Submission	BCG

Drawn By: SEK Designed by: BCG

Aerial Half Mile Radius Plan

Wilson & Tarn Street Development

Assessor's Plat 57-1 Lots 121, 122 & 146
South Kingstown, Rhode Island

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SHEET 2 OF 10

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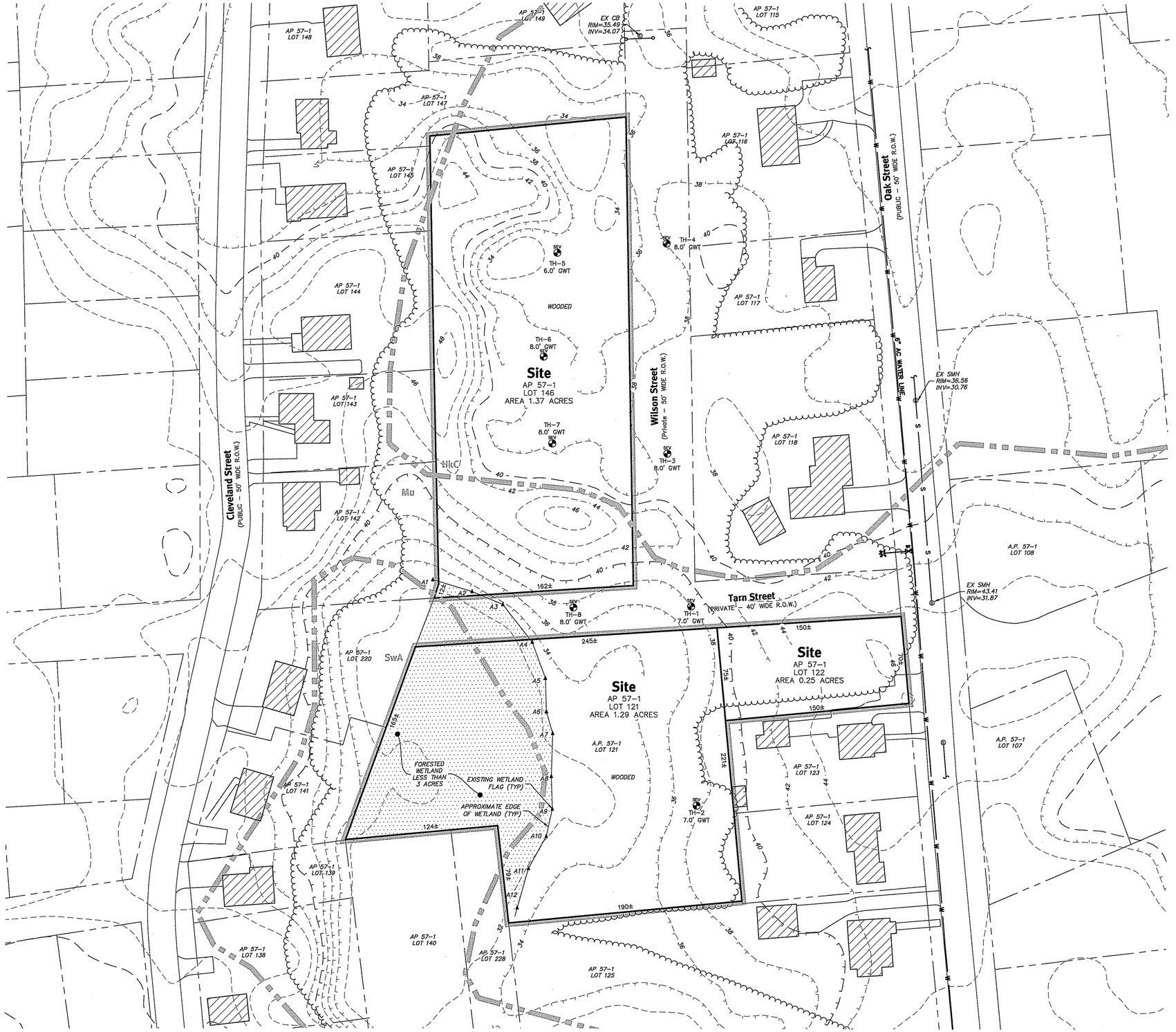

Scale: 1"=40'

0 20' 40' 80'

General Notes:

1. THE SITE IS LOCATED ON THE TOWN OF SOUTH KINGSTOWN, RHODE ISLAND ASSESSOR'S PLAT 57-1 LOTS 121, 122 & 146.
2. THE TOTAL SITE IS APPROXIMATELY 2.91± ACRES AND IS ZONED R-10.
3. THE OWNER OF AP 57-1 LOTS 121, 122 & 146 IS: OAK STREET INVESTMENTS, 521 LIBERTY LANE, WEST KINGSTON, RI 02892
4. THIS SITE IS LOCATED IN FEMA FLOOD ZONES X (SHADED) AND X (UNSHADED). REFERENCE FEMA FLOOD INSURANCE RATE MAP 44009C0203J, MAP REVISED OCTOBER 16, 2013. (FLOOD PLAIN DESCRIPTIONS SHOWN ABOVE)
5. THE BOUNDARY LINE AS SHOWN ON THIS PLAN DEPICTS A CLASS I SURVEY AS PERFORMED BY DIPRETE ENGINEERING ASSOCIATES, INC. THE PLAN ITSELF CONFORMS ONLY TO A CLASS III STANDARD AS ADOPTED BY RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS. THIS PLAN IS NOT TO BE CONSTRUED AS A CLASS I BOUNDARY PLAN AND IS NOT SUITABLE FOR RECORDING AS A CLASS I STANDARD.
6. SOIL MAPPING OBTAINED FROM SOIL SURVEY OF RHODE ISLAND', PREPARED BY U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE.
7. THE SITE HAS WATER SERVICE AVAILABLE PER UNITED WATER (8-20-2014)
8. THE SITE IS NOT WITHIN A:
   GROUNDWATER PROTECTION AREA (RIDEM)
   NATURAL HERITAGE AREAS (RIDEM)
   NARROW RIVER SPECIAL AREA MANAGEMENT PLAN (CRMC)
   SALT PONDS SPECIAL AREA MANAGEMENT PLAN (CRMC)
   GROUNDWATER PROTECTION OVERLAY DISTRICT (TOWN)
9. THE SITE HAS PUBLIC SEWER AVAILABLE ON OAK STREET PER SOUTH KINGSTOWN PUBLIC SERVICES (8-20-2014)

Abbreviations:

EXISTING	EX
PROPOSED	PR
ASSESSOR'S PLAT	AP
ASBESTOS CONCRETE	AC

Legend:

EX MAJOR FOOT CONTOUR —160—
EX MINOR FOOT CONTOUR —158—
SOIL LINE AND DESIGNATION HkC / CaD
PROPERTY LINE
ASSESSOR LINE
IINTERNAL LOT LINE
WETLAND EDGE
WETLAND HATCH
WETLAND FLAG ▲A5
EDGE OF PAVEMENT
EX BUILDING
TREELINE
SEWER LINE —S—
SOIL EVALUATION SEV

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL.
DATED DEC 19 2017 FILE # 16-0028
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Charles A. Horbert

NOV 30 2017

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No.	Date	Description	Designed by: RCG
4	10/30/2017	RIDEM Response to Comments	RCG
3	9/26/2016	RIDEM Wetlands ReSubmission	MSC
2	9/14/2016	RIPDA Wetlands ReSubmission	MSC
1	6/24/2016	RIDEM Wetlands ReSubmission	MSC
0	5/31/2016	RIPDA Wetlands Submission	RCG

Drawn By: SBK

Existing Conditions Plan
Wilson & Tarn Street Development

Assessor's Plat 57-1, Lots 121, 122 & 146
South Kingstown, Rhode Island

Prepared for:
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SHEET 3 OF 10

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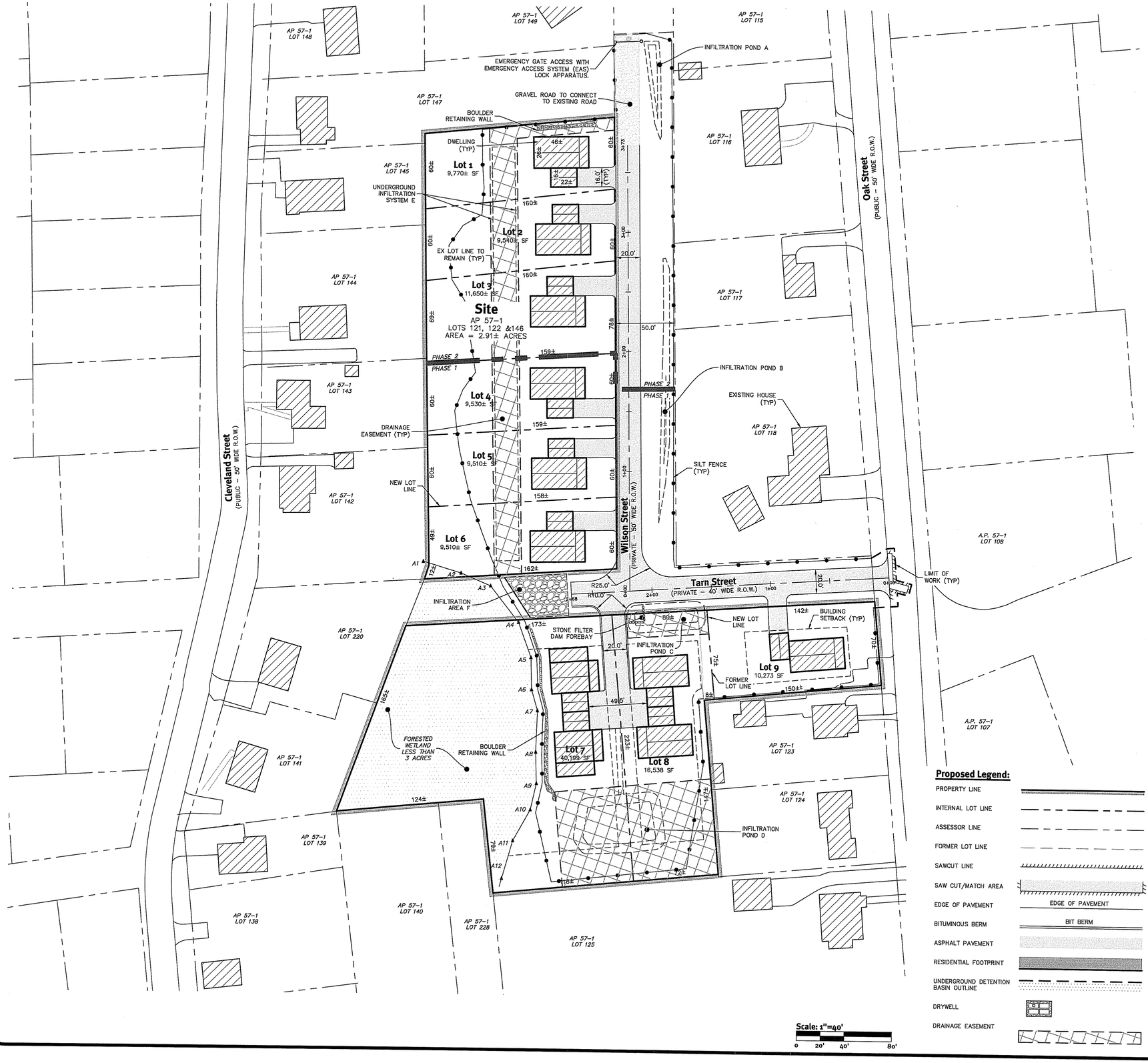

Proposed Legend:

- PROPERTY LINE
- INTERNAL LOT LINE
- ASSESSOR LINE
- FORMER LOT LINE
- SAWCUT LINE
- SAW CUT/MATCH AREA
- EDGE OF PAVEMENT (EDGE OF PAVEMENT)
- BITUMINOUS BERM (BIT BERM)
- ASPHALT PAVEMENT
- RESIDENTIAL FOOTPRINT
- UNDERGROUND DETENTION BASIN OUTLINE
- DRYWELL
- DRAINAGE EASEMENT

General Notes:

1. THE SITE IS LOCATED ON THE TOWN OF SOUTH KINGSTOWN, RHODE ISLAND ASSESSOR'S PLAT 57-1 LOTS 121, 122 & 146.
2. THE SITE IS APPROXIMATELY 2.91± ACRES AND IS ZONED R-10.
3. THE OWNER OF AP 57-1 LOTS 121, 122 & 146 IS: OAK STREET INVESTMENTS 521 LIBERTY LANE WEST KINGSTON, RI 02892
4. THIS SITE IS LOCATED IN FEMA FLOOD ZONES X (SHADED) AND X (UNSHADED). REFERENCE FEMA FLOOD INSURANCE RATE MAP 44009C0203J, MAP REVISED OCTOBER 16, 2013.
5. THE BOUNDARY LINE AS SHOWN ON THIS PLAN DEPICTS A CLASS I SURVEY AS PERFORMED BY DIPRETE ENGINEERING ASSOCIATES, INC. THE PLAN ITSELF CONFORMS ONLY TO A CLASS III STANDARD AS ADOPTED BY RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS. THIS PLAN IS NOT TO BE CONSTRUED AS A CLASS I BOUNDARY PLAN AND IS NOT SUITABLE FOR RECORDING AS A CLASS I STANDARD.
6. THE SITE IS NOT WITHIN A:
   GROUNDWATER PROTECTION AREA
   NATURAL HERITAGE AREAS
   NARROW RIVER SPECIAL AREA MANAGEMENT PLAN
   SALT PONDS SPECIAL AREA MANAGEMENT PLAN
   GROUNDWATER PROTECTION OVERLAY DISTRICT
7. THE FOLLOWING DOCUMENTS ARE CONSIDERED PART OF THE PROJECT PLANS AND THE CONTRACTOR/ OWNER MUST MAINTAIN THESE DOCUMENTS AS PART OF A FULL PLAN SET:
   - SOIL EROSION AND SEDIMENT CONTROL PLAN (SESC). THE SESC CONTAINS THE FOLLOWING:
     - EROSION CONTROL MEASURES
     - SHORT TERM MAINTENANCE
     - ESTABLISHMENT OF VEGETATIVE COVER
     - CONSTRUCTION POLLUTION PREVENTION
     - SEQUENCE OF CONSTRUCTION
   - OPERATIONS AND MAINTENANCE PLAN (O&M). THE O&M CONTAINS THE FOLLOWING:
     - LONG TERM MAINTENANCE
     - LONG TERM POLLUTION PREVENTION
8. THIS PLAN SET REFERENCES RIDOT STANDARD DETAILS (DESIGNATED AS RIDOT STD X.X.X.). RIDOT STANDARD DETAILS ARE AVAILABLE FROM RIDOT AND ONLINE AT: WWW.DOT.STATE.RI.US/ENGINEERING/STANDARDS/INDEX.ASP.
9. THE SITE IS TO BE SERVICED BY PUBLIC WATER AND PUBLIC SEWER.
10. EXISTING RIGHTS OF WAY ARE AS SHOWN ON PLANS.
11. THE DRAINAGE SYSTEM IS DESIGNED TO MEET THE SOUTH KINGSTOWN SUBDIVISION AND LAND DEVELOPMENT REGULATIONS WITH THE USE OF CATCH BASINS AND UNDERGROUND DRAINAGE SYSTEMS. THE STORMWATER MANAGEMENT SYSTEM MEETS THE RIDEM BEST MANAGEMENT PRACTICES.
12. THE SITE IS PROPOSED TO BE BUILT IN 2 PHASES. PHASE 1 INCLUDES TARN STREET, 150' OF WILSON STREET AND ALL APPROPRIATE UTILITIES, LOTS 4, 5, 6, 7, 8 AND 9. INFILTRATION POND C AND D, INFILTRATION AREA F AND A PORTION OF INFILTRATION POND B, AND UNDERGROUND INFILTRATION SYSTEM E. PHASE 2 CONSITS OF THE REMAINDER OF THE SITE.
13. TEST HOLES AND SOIL EVALUATIONS WERE COMPLETED BY DIPRETE ENGINEERING ON MAY 1, 2015.

Development Data:

TOTAL SITE AREA:	2.91± ACRES
TOTAL NUMBER OF LOTS:	9
TOTAL NUMBER OF UNITS:	11
TOTAL LOT AREA:	2.91 ACRES
TOTAL OPEN SPACE:	–
AVERAGE LOT AREA:	0.32 ACRES
RIGHT OF WAY AREA:	–
RIGHT OF WAY WIDTH:	40'/50' (EXISTING)
LENGTH OF ROAD:	638'
PAVEMENT WIDTH:	20'

Dimensional Regulations:

CURRENT ZONING:	R-10
MINIMUM LOT AREA:	10,000 SF
MINIMUM FRONTAGE AND LOT WIDTH:	80'
MINIMUM FRONT AND CORNER SIDE YARD:	30'
MINIMUM SIDE YARD:	10'
MINIMUM REAR YARD:	30'
MAXIMUM STRUCTURE HEIGHT:	35'
MAXIMUM LOT BUILDING COVERAGE:	20%

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED DEC 19 2017 FILE # 16-0028
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Layout and Materials:

1. DIMENSIONS ARE FROM THE FACE OF CURB, FACE OF BUILDING, FACE OF WALL, AND CENTER LINE OF PAVEMENT MARKINGS, UNLESS OTHERWISE NOTED.
2. CURB RADII ARE AS NOTED ON PLANS.
3. CURBING SHALL BE BITUMINOUS BERM OR AS LABELED ON THE PLANS.
4. SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SCALED TO THEIR ACTUAL DIMENSIONS OR LOCATIONS ON THE DRAWINGS. THE CONTRACTOR SHALL REFER TO THE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.
5. SEE ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS AND DETAILS CONTIGUOUS TO THE BUILDING, INCLUDING SIDEWALKS, RAMPS, BUILDING ENTRANCES, STAIRWAYS, UTILITY PENETRATIONS, CONCRETE DOOR PADS, COMPACTOR PAD, LOADING DOCKS, BOLLARDS, ETC.
6. PROPOSED BOUNDS AND ANY EXISTING PROPERTY LINE MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE SET OR RESET BY A PROFESSIONAL LICENSED SURVEYOR.
7. CONTRACTOR SHALL NOT RELY SOLELY ON ELECTRONIC VERSIONS OF PLANS, SPECIFICATIONS, AND DATA FILES THAT ARE OBTAINED FROM THE DESIGNERS, BUT SHALL VERIFY LOCATION OF PROJECT FEATURES IN ACCORDANCE WITH THE PAPER COPIES OF THE PLANS AND SPECIFICATIONS THAT ARE SUPPLIED AS PART OF THE CONTRACT DOCUMENTS.

Soil Information:

(REFERENCE: SOIL SURVEY OF RHODE ISLAND, U.S.D.A. SOIL CONSERVATION SERVICE)

SOIL NAME	DESCRIPTION
Ao	ADRIAN MUCK
HkC	HINCKLEY GRAVELLY SANDY LOAM, ROLLING
MU	MERRIMAC-URBAN LAND COMPLEX

RECEIVED NOV 30 2017 DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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

DAVID A. RUSSO
No. 14,395
REGISTERED PROFESSIONAL ENGINEER CIVIL

No.	Date	Description	By
1	5/30/2015	RIDEM Wetlands Submission	RWH
2	6/23/2015	RIDEM Wetlands Modification	HKC
3	9/9/2015	RIDEM Wetlands Modification	HKC
4	10/26/2017	RIDEM Wetlands Submission	BCG
5	11/30/2017	RIDEM Response to Comments	BCG

Drawn By: SEK | Designed by: BCG

Site Plan
Wilson & Tarn Street Development
Assessor's Plat 57-1, Lots 121, 122 & 146
South Kingstown, Rhode Island
Prepared For
South County Post & Beam Inc.
521 Liberty Lane
West Kingston, RI 02892 Tel (401) 789-4415

SHEET 4 OF 10

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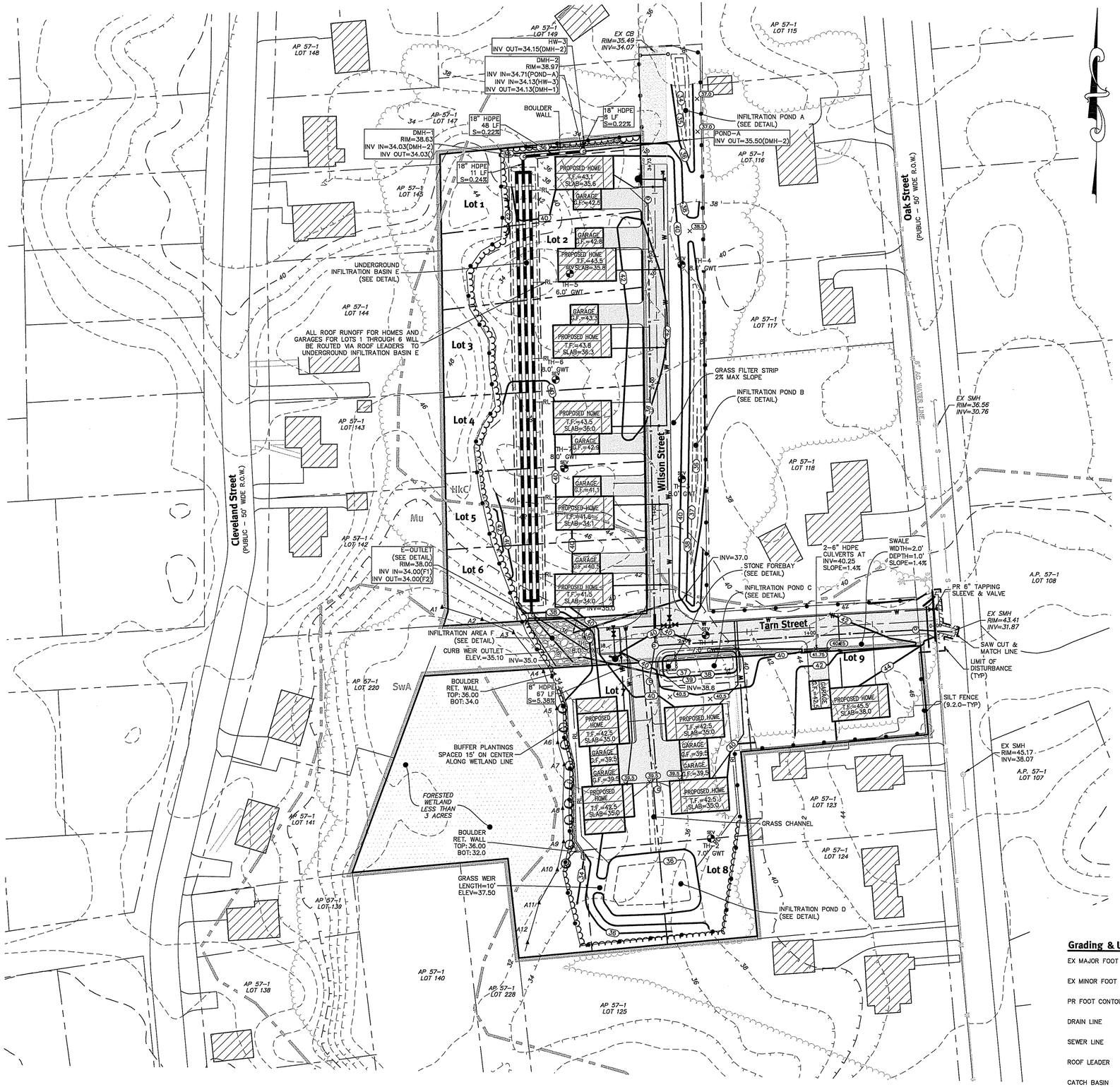

Scale: 1"=40'
0 20' 40' 80'

Grading & Utilities Legend:

- EX MAJOR FOOT CONTOUR — 160
- EX MINOR FOOT CONTOUR — 158
- PR FOOT CONTOUR — 310
- DRAIN LINE
- SEWER LINE — S — S
- ROOF LEADER — RL — RL
- CATCH BASIN
- MANHOLE
- UNDERGROUND INFILTRATION BASIN OUTLINE
- WATER LINE — W — W
- WATER VALVE
- THRUST BLOCK
- HYDRANT
- WATER CURB STOP

Grading and Utility Notes:

1. THE CONTRACTOR IS RESPONSIBLE FOR ALL SOIL EROSION AND SEDIMENT CONTROL ONSITE. THE CONTRACTOR IS TO NOTIFY THE DESIGN ENGINEER, THE DIRECTOR OF PUBLIC WORKS, THE TOWN ENGINEER, AND RI DEPT. OF ENVIRONMENTAL MANAGEMENT AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
2. CONTRACTOR TO OBTAIN ALL FEDERAL, STATE, AND MUNICIPAL APPROVALS PRIOR TO THE START OF CONSTRUCTION.
3. CONSTRUCTION TO COMMENCE UPON RECEIPT OF ALL NECESSARY APPROVALS.
4. ALL WORK PERFORMED HEREIN SHALL BE GOVERNED BY THE RHODE ISLAND STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION AND TOWN OF SOUTH KINGSTOWN STANDARD SPECIFICATIONS AND DETAILS.
5. SEQUENCE OF CONSTRUCTION PROVIDED IN SESC MAY BE MODIFIED AS FIELD CONDITIONS WARRANT WITH PRIOR APPROVAL FROM THE OWNER OR OWNER'S REPRESENTATIVE.
6. THE CONTRACTOR SHALL COORDINATE WITH ALL OF THE APPROPRIATE UTILITY COMPANIES FOR AGREEMENTS TO SERVICE THE PROPOSED BUILDING. THIS SHALL BE DONE PRIOR TO CONSTRUCTION. NO REPRESENTATIONS ARE MADE BY DIPRETE ENGINEERING THAT UTILITY SERVICE IS AVAILABLE.
7. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING FINISH GRADING AND DRAINAGE AROUND THE BUILDING TO ENSURE SURFACE WATER AND/OR GROUND WATER ARE DIRECTED AWAY FROM THE STRUCTURE.
8. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL VERIFY EXISTING PAVEMENT ELEVATIONS AT INTERFACE WITH PROPOSED PAVEMENTS, AND EXISTING GROUND ELEVATIONS ADJACENT TO DRAINAGE OUTLETS TO ASSURE PROPER TRANSITIONS BETWEEN EXISTING AND PROPOSED FACILITIES.
9. ALL PROPOSED UNDERGROUND UTILITIES SERVING THE SITE AND BUILDINGS TO BE COORDINATED WITH APPLICANT, ARCHITECT, AND ENGINEER PRIOR TO INSTALLATION.
10. ALL TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION INCLUDING ALL REVISIONS.
11. ALL CUT AND FILL AREAS ARE TO BE DONE UNDER THE DIRECTION OF A GEOTECHNICAL ENGINEER WITH TESTING AND CERTIFICATION TO BE PROVIDED TO THE APPLICANT AT THE COMPLETION OF THE PROJECT. DIPRETE ENGINEERING ASSOCIATES, INC. IS NOT PROVIDING THE FILL SPECIFICATION, GEOTECHNICAL ENGINEERING, STRUCTURAL ENGINEERING SERVICES, OR SUPERVISION AS PART OF THESE DRAWNGS.
12. NO STOCKPILING OF MATERIAL TO BE LOCATED IN THE RIGHT OF WAY AND NO OPEN TRENCHES ARE TO BE LEFT OVERNIGHT.
13. ALL LOAM IN DISTURBED AREAS TO BE STOCKPILED FOR FUTURE USE.
14. ALL EXCESS SOIL, TREES, ROCKS, BOULDERS, AND OTHER REFUSE, SHALL BE DISCARDED OFF SITE IN AN ACCEPTABLE MANNER AT AN APPROVED LOCATION. STUMPS SHALL BE GROUND ONSITE OR REMOVED.
15. ALL DRAINAGE MANHOLES SHALL BE RIDOT STANDARD 4.2.0.
16. NO STUMP DUMPS ARE PROPOSED ONSITE.
17. ALL EXISTING UTILITIES SHOWN ARE FROM VISIBLE INFORMATION, DRAWINGS FROM OTHERS, OR INFORMATION PROVIDED TO DIPRETE ENGINEERING AND ARE SUBJECT TO CHANGE. THE LOCATIONS OF UNDERGROUND PIPES AND CONDUITS HAVE BEEN DETERMINED FROM AFOREMENTIONED PLANS OF RECORD AND ARE APPROXIMATE ONLY. PRIOR TO CONSTRUCTION, THE PROPER UTILITY ENGINEERING DEPARTMENTS SHALL BE CONTACTED AND THE ACTUAL LOCATION OF SUBSURFACE STRUCTURES SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR. CALL THE DIG SAFE CENTER TOLL FREE AT 1-888-344-7233 72 HOURS PRIOR TO EXCAVATION. NOTIFY DESIGN ENGINEER OF ANY DISCREPANCIES PRIOR TO EXCAVATION. ANY DAMAGE TO UTILITIES WHICH ARE SHOWN ON THE PLANS OR DETAILED BY DIG SAFE SHALL BE THE SITE CONTRACTORS RESPONSIBILITY.
18. IF CONCRETE TRUCKS ARE WASHED OUT ONSITE, ALL WASHOUT MUST BE COMPLETED IN THE DESIGNATED CONCRETE WASHOUT AREA.
19. ALL ROOF RUNOFF FOR HOMES AND GARAGES FOR LOTS 1 THROUGH 6 WILL BE ROUTED VIA ROOF LEADERS TO UNDERGROUND INFILTRATION BASIN E.

Traffic Notes:

1. DURING CONSTRUCTION TRAFFIC CONES ARE TO BE USED FOR SEPARATION OF ACTIVE TRAFFIC FROM WORK ZONE.
2. DURING CONSTRUCTION FLAGGERS SHALL BE EMPLOYED TO ENSURE SAFETY FOR INTERACTION OF CONSTRUCTION VEHICLES AND ACTIVE TRAFFIC.
3. ALL SIGNS, FLAGGERS, TRAFFIC CONTROL DEVICES, AND TEMPORARY TRAFFIC ZONE ACTIVITIES SHALL MEET THE REQUIREMENTS OF THE MUTCD LATEST EDITION AND SUBSEQUENT ADDENDA.
4. TEMPORARY CONSTRUCTION SIGNS SHALL BE MOUNTED ON RIDOT APPROVED SUPPORTS AND SHALL BE REMOVED OR COVERED WHEN NOT APPLICABLE.
5. ALL TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES CURRENT EDITION.

As-Built Notes:

1. ALL COMPONENTS OF THE DRAINAGE MUST BE ASBUILT PRIOR TO COVERING. ENGINEER TO BE NOTIFIED PRIOR TO COVERING SURVEY ASBUILT LOCATIONS. ENGINEER WILL NOT ACCEPT FIELD MEASUREMENTS FROM THE SITE CONTRACTOR.

UIC Notes:

PROPOSED UNDERGROUND DRAINAGE SYSTEM MEETS ALL THE FOLLOWING UIC MINIMUM SETBACK REQUIREMENTS:

1. 400 FEET FROM ALL PUBLIC WATER WELLS (SAND & GRAVEL)
2. 200 FEET FROM ALL PUBLIC WATER WELLS (BEDROCK)
3. 200 FEET FROM ALL SURFACE DRINKING WATER SUPPLY IMPOUNDMENTS
4. 100 FEET FROM ALL PRIVATE DRINKING WATER WELLS
5. 100 FEET FROM ALL OTHER SURFACE WATERS
6. 25 FEET FROM ALL OWTS & OTHER GROUNDWATER DISCHARGE SYSTEMS
7. 25 FEET FROM ALL BUILDING FOUNDATIONS IF SYSTEM IS ABOVE SLAB ELEVATION.
8. 10 FEET FROM ALL PROPERTY LINES
9. 10 FEET FROM ALL BUILDING FOOTINGS

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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Boston • Providence • Newport

DAVID A. RUSSO
No. 14305
REGISTERED PROFESSIONAL ENGINEER
CIVIL

No.	Date	Description	By
4	10/26/2017	RIDEM Response to Comments	RCG
3	9/29/2017	RIDEM Wetlands Modification	RCG
2	8/23/2017	RIDEM Wetlands Application	MSC
1	5/31/2016	RIDEM Wetlands Submission	MSC
0	12/23/16	Preliminary Submission	RCG

Drawn By: SEK | Designed by: RCG

Grading Plan
Wilson & Tarn Street Development
Assessor's Plat 57-1, Lots 121, 122 & 146
South Kingstown, Rhode Island

Prepared For:
South County Post & Beam Inc.
521 Liberty Lane
West Kingston, RI 02892

Tel (401) 789-4415

DE Job No: 2214-001

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SHEET 5 OF 10

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Plan - Tarn Street

Plan - Wilson Street

Profile - Tarn Street

Profile - Wilson Street

Vertical: 0 2' 4' 8'
Horizontal: 0 20' 40' 80'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED DEC 19 2017 FILE # 16-0028
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NOV 30 2017

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DAVID A. RUSSO
No. 14365
REGISTERED PROFESSIONAL ENGINEER
CIVIL

No.	Date	Description	By
1	8/4/2016	RIDEM Wetlands Resubmission	HSC
2	6/21/2016	RIDEM Wetlands Resubmission	HSC
3	10/26/2017	RIDEM Response to Comments	BCG
4	10/30/2017	RIDEM Wetlands Resubmission	BCG

Designed by: BCG
Drawn By: SEK

Plan and Profile
Wilson & Tarn Street Development
Assessor's Plat 57-1, Lots 121, 122 & 146
South Kingstown, Rhode Island
Prepared For:
South County Post & Beam Inc.
521 Liberty Lane
West Kingston, RI 02892 Tel (401) 783-4415

SHEET 6 OF 10

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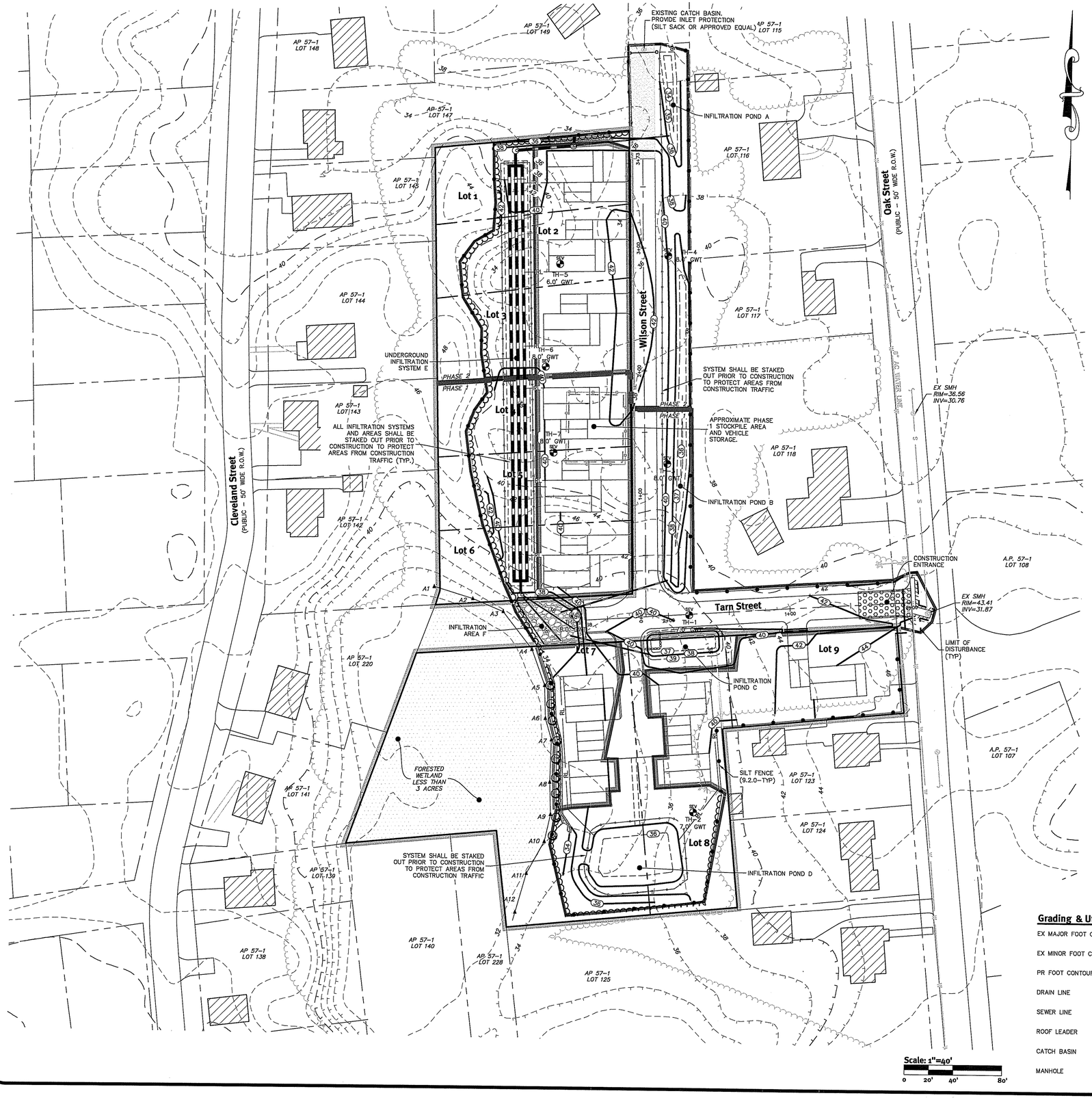

Scale: 1"=40'

0 20' 40' 80'

General Notes:

1. ALL EROSION CONTROL MEASURES ETC. SHALL BE INSTALLED PER THE RHODE ISLAND SOIL EROSION AND SEDIMENTATION CONTROL LATEST EDITION.
2. SILT FENCE OR AN APPROVED EROSION EROSION CONTROL SHALL BE USED TO CONTROL RUNOFF DURING CONSTRUCTION OF THE SITE.
3. VEHICLE MAINTENANCE AND WASHING SHALL OCCUR OFF-SITE.
4. CONCRETE WASHOUT AREAS TO BE LOCATED AT STOCKPILE AREA AS NEEDED.
5. CONTRACTOR MAY MODIFY SEQUENCE OF CONSTRUCTION WITH APPROVAL FROM DESIGN ENGINEER.
6. INFILTRATION AREAS SHALL BE STAKED OFF, DEMARCATED AND PROTECTED FROM CONSTRUCTION TRAFFIC DURING ALL CONSTRUCTION PHASES.

Phase 1A– INSTALL EROSION CONTROL SILT FENCE & STONE CONSTRUCTION ENTRANCE. CLEAR & GRUB PHASE 1. PROTECT INFILTRATION AREAS FROM CONSTRUCTION TRAFFIC AND RUNOFF. INSTALL DRAINAGE & UTILITIES. CONSTRUCT PROPOSED ROADWAY.

Phase 1B– CONSTRUCT INDIVIDUAL UNITS. INSTALL EROSION CONTROL ON INDIVIDUAL LOTS. PROTECT DOWNSTREAM DRAINAGE AREAS FROM RUNOFF. STABILIZE TRIBUTARY AREAS, INSTALL DRIVEWAYS. INDIVIDUAL SOIL EROSION & SEDIMENT CONTROL PLANS SHALL BE PREPARED FOR THE TOWN PRIOR TO LOT CONSTRUCTION. LOTS MAY BE CONSTRUCTED IN ANY SEQUENCE AS THE MARKET DICTATES.

Phase 2A– INSTALL EROSION CONTROL SILT FENCE & STONE CONSTRUCTION ENTRANCE FOR THE REMAINDER OF WILSON STREET. CLEAR & GRUB PHASE 2. PROTECT INFILTRATION AREAS FROM CONSTRUCTION TRAFFIC AND RUNOFF. INSTALL DRAINAGE & UTILITIES. CONSTRUCT PROPOSED ROADWAY.

Phase 2B– CONSTRUCT INDIVIDUAL UNITS. INSTALL EROSION CONTROL ON INDIVIDUAL LOTS. PROTECT DOWNSTREAM DRAINAGE AREAS FROM RUNOFF. STABILIZE TRIBUTARY AREAS, INSTALL DRIVEWAYS. INDIVIDUAL SOIL EROSION & SEDIMENT CONTROL PLANS SHALL BE PREPARED FOR THE TOWN PRIOR TO LOT CONSTRUCTION. LOTS MAY BE CONSTRUCTED IN ANY SEQUENCE AS THE MARKET DICTATES.

Grading & Utilities Legend:

- EX MAJOR FOOT CONTOUR — 160
- EX MINOR FOOT CONTOUR — 158
- PR FOOT CONTOUR — 310
- DRAIN LINE
- SEWER LINE — S — S
- ROOF LEADER — RL — RL
- CATCH BASIN
- MANHOLE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED DEC 19 2017 FILE # 16-0628
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Charles A. Horbert

NOV 30 2017

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DAVID A. RUSSO
No. 14305
REGISTERED PROFESSIONAL ENGINEER CIVIL

No.	Date	Description	By
4	10/26/2017	RIDEM Response to Comments	BCG
3	9/22/2017	RIDEM Wetlands Modification	BCG
2	8/21/2017	RIDEM Wetlands Re-Submission	MJC
1	6/21/2016	RIDEM Wetlands Re-Submission	DRR
0	2/10/2016	RIDEM Wetland Submission	

Drawn By: SEK Designed by: BCG

Soil Erosion & Sediment Control Plan

Wilson & Tarn Street Development

Assessor's Plat 57-1, Lots 121, 122 & 146
South Kingstown, Rhode Island

Prepared for:
South County Post & Beam Inc.
521 Liberty Lane
West Kingston, RI 02892 Tel (401) 789-0415

SHEET 7 OF 10

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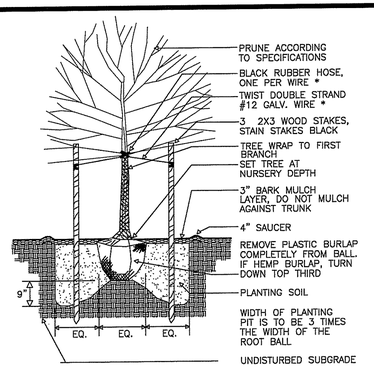
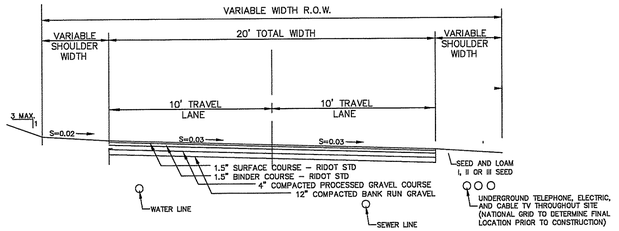
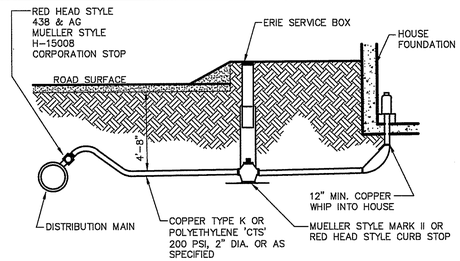


TREE PLANTING DETAIL* TO BE REMOVED WITHIN ONE YEAR

NOTE:
UNDERGROUND UTILITY TRENCH CONSTRUCTION TO CONFORM TO ALL APPLICABLE STANDARDS DETERMINED BY THE TOWN AND NATIONAL GRID PRIOR TO COMMENCING CONSTRUCTION. CONTRACTOR TO NOTIFY DIG SAFE PRIOR TO EXCAVATION.



TYPICAL CONSTRUCTION CROSS SECTION
NOT TO SCALE

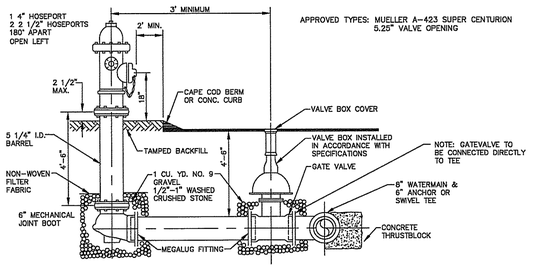


TYPICAL 2" OR SMALLER WATER SERVICE N.T.S.

WATER NOTES

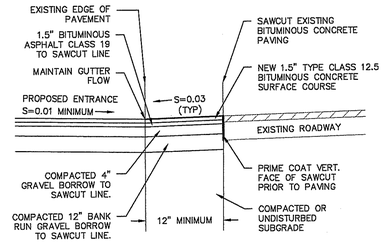
1. ALL WORK AND MATERIAL OF WATER LINE SHALL BE IN ACCORDANCE WITH RULES AND REGULATIONS SET FORTH BY SUEZ WATER. INSTALLATION PROCEDURES AND MATERIALS TO CONFORM TO SUEZ WATER, AWWA SPECIFICATIONS AND ART. III OF THE SOUTH KINGSTOWN TOWN ORDINANCES. A PRECONSTRUCTION MEETING SHALL BE HELD PRIOR TO ORDER OF MATERIALS AND WATER MAIN INSTALLATION.
2. WATER MAIN INSTALLATION SHALL BE INSPECTED BY SUEZ WATER PRIOR TO BACKFILLING THE TRENCH.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING SUEZ WATER FIVE (5) DAYS PRIOR TO START OF CONSTRUCTION.
4. CHLORINATION OF SYSTEM AND SAMPLING SHALL CONFORM TO AWWA REQUIREMENTS FOR SERVICE AND MAIN INSTALLATIONS.
5. THE CONTRACTOR SHALL NOTIFY THE DIRECTOR OF WATER SUPPLY AT LEAST TWO WORKING DAYS IN ADVANCE FOR FINAL INSPECTION.
6. WHENEVER, IN THESE SPECIFICATIONS, REFERENCE IS MADE TO THE REQUIREMENTS OF AWWA, ANSI, ASTM OR ANY OTHER STANDARD SPECIFICATION, THE REFERENCE IS MADE TO THE LATEST REVISIONS OR MODIFICATIONS OF SUCH REQUIREMENTS AND SPECIFICATIONS.
7. ALL PIPE, FITTINGS, AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH AWWA AND ANSI STANDARDS AND THE MANUFACTURER'S SUGGESTED RECOMMENDATIONS FOR INSTALLATIONS.
8. PIPELINES SHALL BE CONSTRUCTED IN DRY TRENCHES AND LAID TO THE LINE GRADE. WHENEVER PIPE IS TO BE INSTALLED IN SATURATED SOIL CONDITIONS A BEDDING OF PROCESSED GRANULAR FILTER MATERIAL SHALL BE PROVIDED.
9. ALL BENDS, CROSSES, TEES, END CAPS AND PLUGS, VALVES AND ANY OTHER APPURTENANCES SHALL BE RESTRAINED WITH THRUST BLOCKS, STRAPPING OR ANCHORS.
10. JOINTING OF MECHANICAL AND PUSH ON TYPE JOINTS SHALL BE PERFORMED IN STRICT ACCORDANCE WITH AWWA STANDARD C-600, SUEZ WATER AND SOUTH KINGSTOWN SPECIFICATIONS. RUBBER GASKETS AND RINGS SHALL BE SUITABLE FOR USE WITH POTABLE WATER AND THOROUGHLY CLEANED TO REMOVE OIL, GRIT, AND OTHER FOREIGN MATTER PROIR TO ASSEMBLY. THE GASKETS SHALL BE INSPECTED BY THE DIRECTOR OF WATER SUPPLY OR HIS AGENT TO INSURE THAT THEY ARE ACCEPTABLE.
11. ALL FITTINGS USED FOR SERVICE CONNECTIONS SHALL BE IN ACCORDANCE WITH AWWA C-800, SUEZ WATER, AND SOUTH KINGSTOWN SPECIFICATIONS.
12. VALVES USED SHALL BE IN ACCORDANCE WITH AWWA C-500 SERIES, SUEZ WATER, AND THE TOWN OF SOUTH KINGSTOWN REGULATIONS. VALVES SHALL BE MECHANICAL JOINT, DOUBLE DISC PARALLEL SEAT OR RESILLENT SEAT GATE STYLES AS FOLLOWS:
    a. MUELLER CORPORATION STOP DOUBLE DISC PARALLEL SEAT.
    b. AMERICAN DARLING VALVE RESILENT MODEL CRS-80.
13. BLOW-OFF ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH AWWA C-800 SERIES, SUEZ WATER, AND THE TOWN OF SOUTH KINGSTOWN.
14. FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH MUELLER A421, AWWA C-502 "DRY BARREL FIRE HYDRANTS" , SUEZ WATER, AND TOWN SPECIFICATIONS.
15. HYDROSTATIC AND LEAKAGE TESTS SHALL BE PERFORMED ON ALL COMPLETED SECTIONS OF NEWLY INSTALLED PIPELINE IN ACCORDANCE WITH AWWA C-600, SUEZ WATER, AND TOWN SPECIFICATIONS.
16. ALL PIPE SHALL BE DISINFECTED PRIOR TO BEING ACTIVATED IN ACCORDANCE WITH AWWA B-300, AWWA C-601, SUEZ WATER, AND TOWN SPECIFICATIONS.
17. DISTRIBUTION PIPING SHALL BE CL 52 DUCTILE IRON, DOUBLE CEMENT LINED, WITH PUSH ON JOINTS. PIPE SHALL MEET ANSI/AWWA C151 A21.51. JOINTS SHALL MEET ANSI/AWWA /C111/A21.11. AMERICAN MANUFACTURER ONLY.
18. FITTINGS SHALL BE DUCTILE IRON MECHANICAL JOINT CL350 CEMENT MORTAR LINED AND MEET ANSI/AWWA/C153/A21.53. MECHANICAL JOINTS SHALL MEET ANSI/AWWA/C111/A21.11 AMERICAN MANUFACTURER ONLY.
19. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL STATE AND TOWN PERMITS PRIOR TO CONSTRUCTION.
20. THE CONTRACTOR IS RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS RELATED TO INSTALLATION OF THE WATER MAIN.
21. EXCAVATIONS THAT EXTEND INTO PUBLIC RIGHT -OF-WAY SHALL BE BACKFILLED AND COMPACTED IN 12" LIFTS. A TEMPORARY SURFACE COURSE IS TO BE APPLIED. FINAL BINDER AND FINISH COURSE TO BE PLACED AFTER REMOVAL OF TEMPORARY PAVEMENT AND COMPACTION OF GRAVEL BASE. CONTRACTOR SHALL MAKE ROAD PASSABLE FOR ONE LANE OF TRAFFIC AT ALL TIMES.
22. CONTRACTOR SHALL NOTIFY DIG SAFE PRIOR TO DIGGING ANY TRECHES.
23. WHEN WORK IS NOT IN PROGRESS AND AT THE END OF EACH DAY, ALL OPEN ENDS OF THE PIPE AND FITTINGS SHALL BE SECURELY CLOSED.
24. DIPRETE ENGINEERING DOES NOT CERTIFY AS TO THE STATIC OR RESIDUAL PRESSURE OF THIS WATER MAIN EXTENSION.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED DEC 19 2017 FILE # 16-0028
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



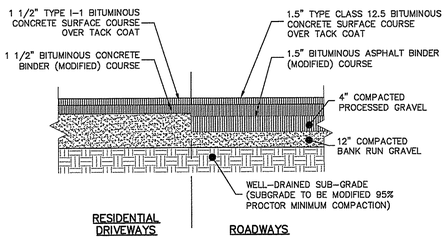
AWWA C502 DRY BARREL FIRE HYDRANT N.T.S.

NOTE:
MINIMUM COMPACTION FOR GRAVEL SUBBASE OR SUBGRADE: 95% MODIFIED PROCTOR.

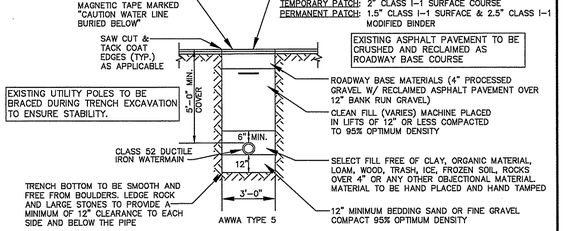


Entrance Access Sawcut & Match

NOTE:
THIS PAVEMENT SECTION DETAIL REFLECTS MINIMUM REQUIREMENTS. ENGINEER TO DETERMINE DESIGN BASED ON GEO-TECHNICAL DATA OF SPECIFIC PROJECT AND DAILY TRAFFIC DESIGN REQUIREMENT.

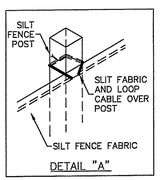


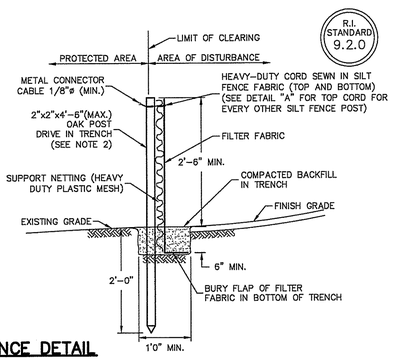
TYPICAL PAVEMENT SECTION
NOT TO SCALE



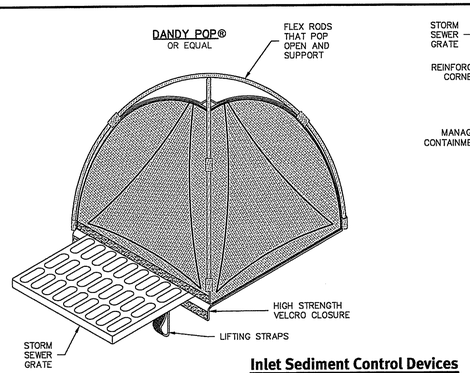
WATER TRENCH DETAIL N.T.S.

NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE R.I. STANDARD SPECIFICATIONS.
2. 2"x2"x4'-6"(MAX.) OAK POSTS FOR SILT FENCE SHALL BE LOCATED 8'-0" (MAX.) O.C. IN WETLAND AREAS AND 4'-0" (MAX.) O.C. IN WETLAND RAVINE, GULLY OR DROP-OFF AREAS AS SHOWN ON PLANS.
3. 1"x1"x4'-6"(MIN.) POSTS PERMITTED FOR PRE-FABRICATED SILT FENCE.
4. SILT FENCE SHALL BE INSTALLED BEFORE ANY GRUBBING OR EARTH EXCAVATION TAKES PLACE.

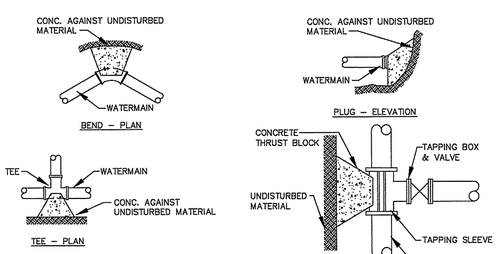




SILT FENCE DETAIL
NOT TO SCALE



Inlet Sediment Control Devices
NOT TO SCALE



* CONCRETE TO BE 3000 PSI @ 28 DAYS *

THRUST BLOCK SCHEDULE BEARING AREA		
PIPE SIZE	45° BEND OR LESS	TEE & DEAD END
8"	2.5' x 2.5'	3.0' x 3.0'
12"	3.0' x 3.0'	3.5' x 3.5'

THRUST BLOCK DETAILS N.T.S.

LEAKAGE AND PRESSURE TESTING FOR WATERMAINS

GENERAL
HYDROSTATIC AND LEAKAGE TESTS SHALL BE PERFORMED ON ALL COMPLETED SECTIONS OF NEW,Y INSTALLED WATERMAIN PIPELINE IN
1. ACCORDANCE WITH AWWA C600, THE TOWN OF SOUTH KINGSTOWN, AND AS SPECIFIED BELOW.

THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL LABOR, TOOLS AND EQUIPMENT NECESSARY FOR TESTING.

TESTING PROCEDURES
ALL AIR SHALL BE EXPELLED AT THE HIGH POINTS AND THE PIPELINE SLOWLY
2. FILLED WITH POTABLE WATER.

THE INTERNAL PRESSURE SHALL BE BUILT UP TO 150 PSI AND MAINTAINED FOR A PERIOD OF NOT LESS THAN ONE (1) HOUR.

ALL LEAKS IN THE PIPELINE SHALL BE STOPPED; CRACKED OR DEFECTIVE PIPE, FITTINGS OR ACCESSORIES SHALL BE REMOVED AND REPLACED WITH NEW BY THE CONTRACTOR.

THE PIPELINE SHALL BE RETESTED AS MAY BE REQUIRED AND NECESSARY UNTIL THE LEAKAGE FALLS WITHIN THE ALLOWABLE DETERMINED FOR THE PIPE NETWORK, AT WHICH TIME THE PIPELINE MAY BE CONSIDERED READY FOR:
a. WATERMAINS – DISINFECTION STEP

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ALL STORM WATER, DRAINAGE AND SANITARY SEWER SHOP DRAWINGS SHALL BE SUBMITTED TO SOUTH KINGSTOWN PUBLIC SERVICES DEPARTMENT FOR APPROVAL PRIOR TO INSTALLATION AND ALL SHOP DRAWINGS RELATIVE TO THE WATER DISTRIBUTION SYSTEM SHALL REQUIRE UNITED WATER APPROVAL PRIOR TO INSTALLATION.

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

DAVID A. RUSSO
No. 13355
10/12/17
REGISTERED PROFESSIONAL ENGINEER CIVIL

No.	Date	Description	Designed by: BCG
8	10/26/2017	RIDEM Response to Comments	BCG
7	9/29/2017	RIDEM Wetlands Application	BCG
6	8/25/2017	RIDEM Wetlands Submission	BCG
5	6/21/2017	RIDEM Wetlands ReSubmission	DSC
4	3/30/2016	RIDEM Wetland Submission	BN
3			Drawn By: SEK

Detail Sheet - 1

Wilson & Tarn Street Development
Assessor's Plat 57-1, Lots 121, 122 & 146
South Kingstown, Rhode Island

Prepared For:
South County Post & Beam Inc.
521 Liberty Lane
West Kingston, RI 02892 Tel (401) 783-4435

DE Job No: 2214-001

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SHEET 8 OF 10

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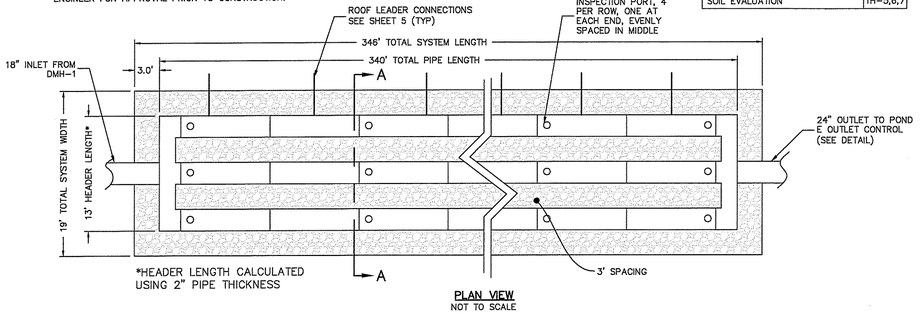
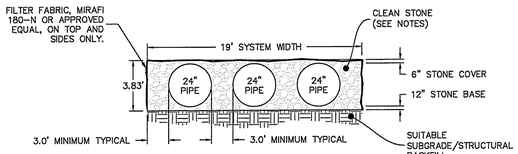
NOTES:

1. CLEAN STONE SHALL BE CLEAN DOUBLE WASHED ANGULAR STONE. STONE MUST MEET AASHTO SPECIFICATION M-43 SIZE NO. 2 OR NO. 3.
2. PIPE SHALL BE HDPE. ALL PIPE MUST BE FULLY PERFORATED. CONTRACTOR TO PROVIDE SHOP DRAWINGS TO DESIGN ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
3. HEADER PIPE CAN BE CUSTOM MANUFACTURED OR CONSTRUCTED USING PIPE FITTINGS. CONTRACTOR TO PROVIDE SHOP DRAWINGS TO DESIGN ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.

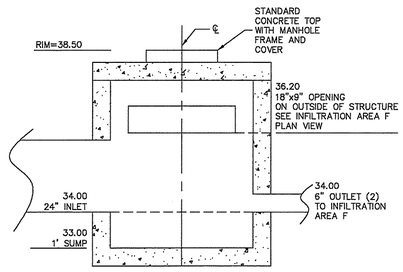
DESCRIPTION	
TOP OF UIS STONE ELEVATION	36.83
BOTTOM OF UIS STONE ELEVATION	33.00
100 YEAR STORM ELEVATION	36.05
10 YEAR STORM ELEVATION	35.04
1 YEAR STORM ELEVATION	34.08
SEASONAL HIGH GWT ELEVATION	28.5-30
SOIL EVALUATION	TH-5,6,7



PLAN VIEW
NOT TO SCALE



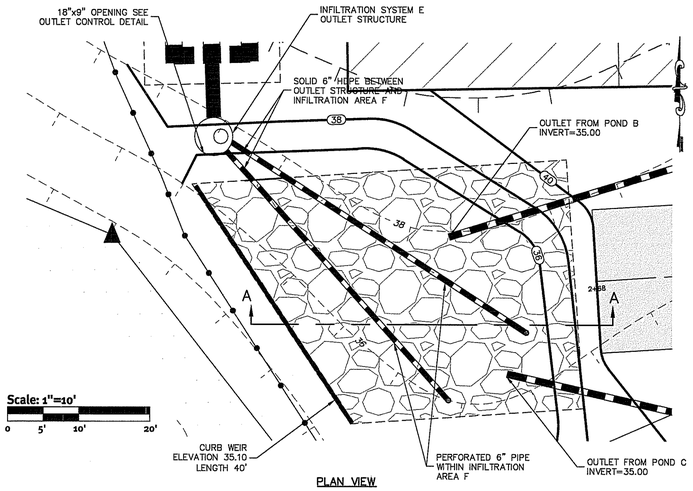
SECTION A-A



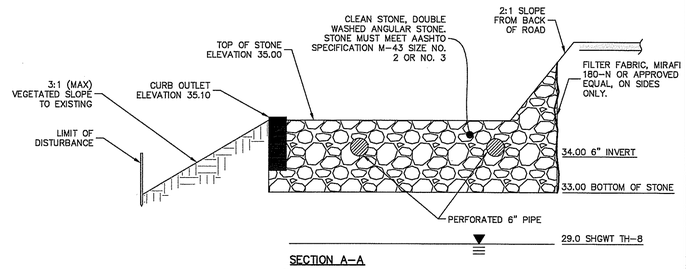
OUTLET CONTROL
1" = 2'

Underground Infiltration System E

NOT TO SCALE



PLAN VIEW



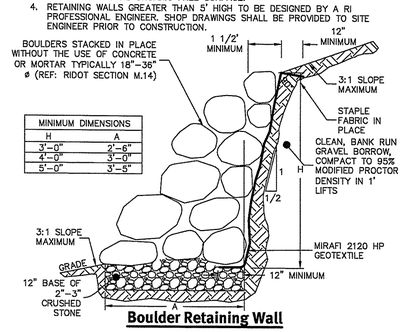
SECTION A-A

Infiltration Area F

NOT TO SCALE

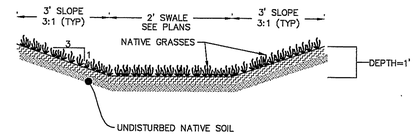
NOTES:

1. FOOTING TO BE COMPACTED TO 95% AND SLOPED TOWARDS EMBANKMENT OR LAID LEVEL.
2. REMOVE AND DISPOSE TOP AND SUB SOIL.
3. PLACE ON NATURE ORGANIC FREE SURFACE.
4. RETAINING WALLS GREATER THAN 5' HIGH TO BE DESIGNED BY A RI PROFESSIONAL ENGINEER. SHOP DRAWINGS SHALL BE PROVIDED TO SITE ENGINEER PRIOR TO CONSTRUCTION.



Boulder Retaining Wall

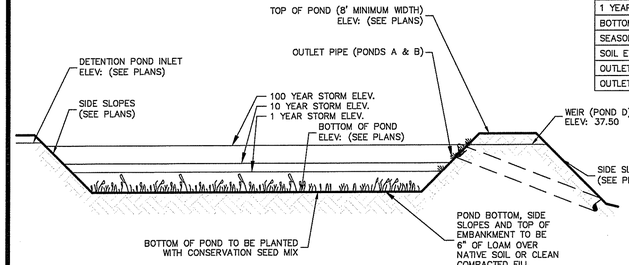
NOT TO SCALE



Swale Cross Section

NOT TO SCALE

DESCRIPTION	POND A	POND B	POND D
TOP OF POND ELEVATION	36.00	38.00	38.00
100 YEAR STORM ELEVATION	35.69	37.58	37.57
10 YEAR STORM ELEVATION	34.71	36.91	36.47
1 YEAR STORM ELEVATION	34.04	36.15	36.00
BOTTOM OF POND ELEVATION	34.00	36.00	36.00
SEASONAL HIGH GWT ELEVATION	30.00	32.00	29.00
SOIL EVALUATION	TH-8	TH-3	TH-2
OUTLET TYPE	6"ø HDPE	8"ø HDPE	WEIR
OUTLET INVERT OR ELEV	35.50	37.00	37.50



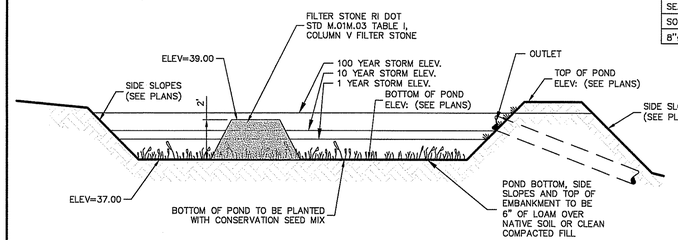
Infiltration Ponds A, B, & D

NOT TO SCALE

NOTES:

1. IN POND AREAS WHERE NATIVE SOILS HAVE INFILTRATION RATES EXCEED 8.27 IN/HR (COARSE, GRAVELY AND COBBLEY SANDS), CONTRACTOR SHALL PLACE 18" OF ASTM C-33 SAND BELOW BOTTOM OF POND.
2. 6" OF LOAM MAY BE SUBSISTED WITH 6" OF MIXED ONSITE CLEAN SAND/GRAVEL. ONSITE MATERIAL TO BE MIXED WITH 2"-3" OF ORGANIC MATTER SUCH AS COMPOST, PEAT, MOSS, OR MANURE.

DESCRIPTION	POND C
TOP OF POND ELEVATION	39.50
100 YEAR STORM ELEVATION	39.13
10 YEAR STORM ELEVATION	37.94
1 YEAR STORM ELEVATION	37.01
BOTTOM OF POND ELEVATION	37.00
SEASONAL HIGH GWT ELEVATION	29.00
SOIL EVALUATION	TH-1
8"ø HDPE OUTLET PIPE INVERT	38.60

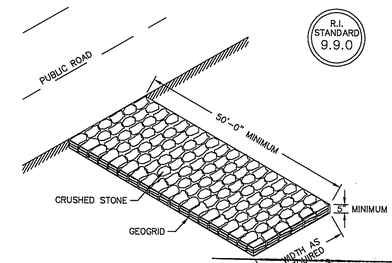


Infiltration Pond C

NOT TO SCALE

NOTES:

1. IN POND AREAS WHERE NATIVE SOILS HAVE INFILTRATION RATES EXCEED 8.27 IN/HR (COARSE, GRAVELY AND COBBLEY SANDS), CONTRACTOR SHALL PLACE 18" OF ASTM C-33 SAND BELOW BOTTOM OF POND.
2. 6" OF LOAM MAY BE SUBSISTED WITH 6" OF MIXED ONSITE CLEAN SAND/GRAVEL. ONSITE MATERIAL TO BE MIXED WITH 2"-3" OF ORGANIC MATTER SUCH AS COMPOST, PEAT, MOSS, OR MANURE.



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

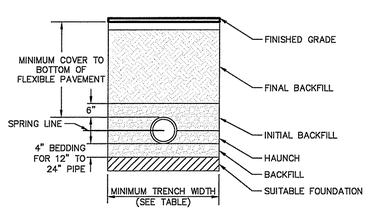
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF
DATED DEC 19 2017 FILE # 16-0028
Construction Accesses ALLOWED WITHOUT PRIOR APPROVED PLANS MUST BE AT CONSTRUCTION LIMITS

NOT TO SCALE

INSTALLATION NOTES:

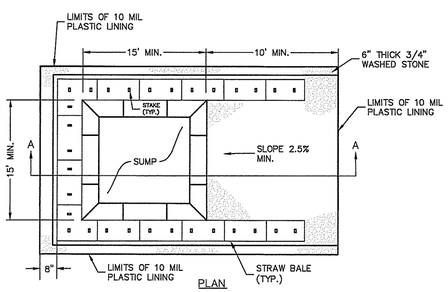
1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS, LATEST ADDITION.
2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
3. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
4. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100MM) FOR 4"-24" (100MM-600MM); 6" (150MM) FOR 30"-60" (750MM-900MM).
5. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
6. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" ø PIPE AND 24" OF COVER FOR 54"-60" ø PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.

PIPE ø	MINIMUM TRENCH WIDTH
6"	23"
8"	26"
12"	30"
15"	34"
24"	39"

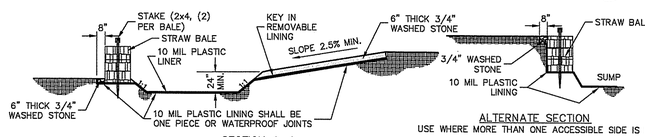


HDPE Trench Detail

NOT TO SCALE



PLAN



SECTION A-A

ALTERNATE SECTION
USE WHERE MORE THAN ONE ACCESSIBLE SIDE IS NEEDED

ALL CONCRETE TRUCKS SHALL WASHOUT HERE

WASHOUT SIGN

NOTES:

1. PIT IS SPECIFICALLY DESIGNATED, DIKED AND IMPERVIOUS CONTAINMENT TO PREVENT CONTACT BETWEEN CONCRETE WASH AND STORMWATER.
2. WASH WATER SHALL NOT BE ALLOWED TO FLOW TO SURFACE WATER.
3. FACILITY MUST HOLD SUFFICIENT VOLUME TO CONTAIN CONCRETE WASTE WITH A MINIMUM FREEBOARD OF 12."
4. FACILITY SHALL NOT BE FILLED BEYOND 95% CAPACITY UNLESS A NEW FACILITY IS CONSTRUCTED.
5. SAW CUT PORTLAND CEMENT CONCRETE, RESIDUE FROM SAWCUT & GRINDING TO BE DISPOSED OF IN THE PIT.
6. CONCRETE WASHOUTS SHALL BE LOCATED A MINIMUM OF 100' FROM DRAINAGE WAYS, INLETS, & SURFACE WATERS.
7. MANUFACTURED CONCRETE WASHOUT DEVICES MAY BE USED IF REMOVED FROM THE SITE WHEN 95% FULL CAPACITY.

CONCRETE WASHOUT AREA

(NOT TO SCALE)

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Boston • Providence • Newport

DAVID A. RUSSO
No. 14351
REGISTERED PROFESSIONAL ENGINEER
CIVIL

No.	Date	Description	Drawn By: SEK	Designed by: BCG
4	10/26/2017	RIDEM Response to Comments		BCG
3	9/29/2017	RIDEM Wetlands Modification		BCG
2	6/22/2017	RIDEM Wetlands Submission		MSC
1	5/12/2016	RIDEM Wetlands Resubmission		MSC
0	2/12/2016	RIDEM Wetland Submission		BCG

Detail Sheet - 2

Wilson & Tarn Street Development

Assessor's Plat: 57 Pt. Lots 121, 122 & 146
South Kingstown, Rhode Island

Prepared for:
South County Post & Beam Inc.
521 Liberty Lane
West Kingston, RI 02892 Tel (401) 783-4435

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SHEET 9 OF 10

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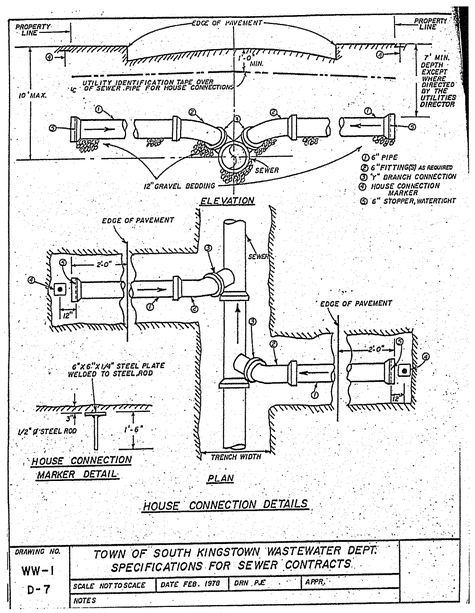
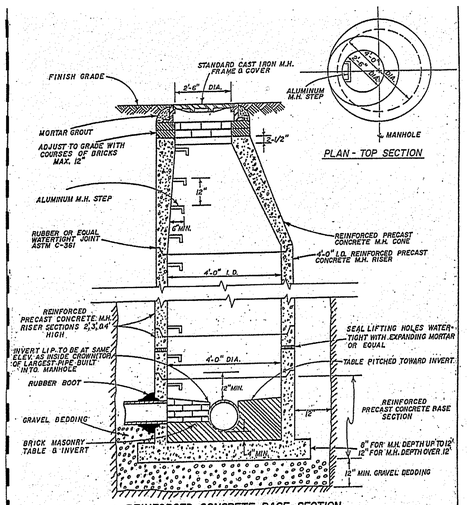


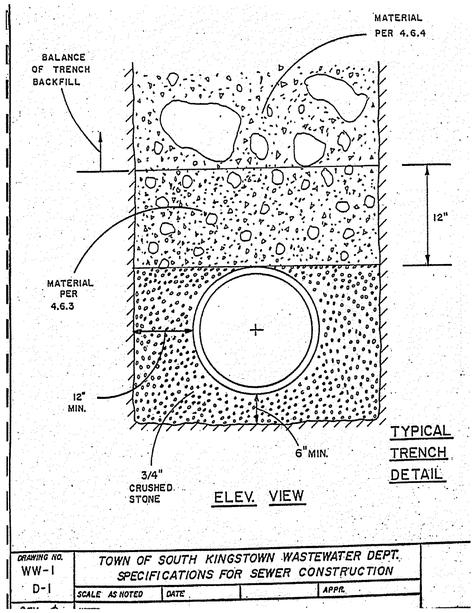
HOUSE CONNECTION DETAILS

DRAWING NO.	TOWN OF SOUTH KINGSTOWN WASTEWATER DEPT. SPECIFICATIONS FOR SEWER CONTRACTS			
WW-1 D-7	SCALE NOT TO SCALE	DATE FEB. 1978	DRN PJE	APPR.
	NOTES			



REINFORCED CONCRETE BASE SECTION

DRAWING NO.	TOWN OF SOUTH KINGSTOWN WASTEWATER DEPT. SPECIFICATIONS FOR SEWER CONTRACTS			
WW-1 D-6	SCALE 1/2"=1'-0"	DATE FEB. 1978	DRN PJE	APPR
	NOTES:			



DRAWING NO.	TOWN OF SOUTH KINGSTOWN WASTEWATER DEPT. SPECIFICATIONS FOR SEWER CONSTRUCTION			
WW-1 D-1	SCALE AS NOTED	DATE		APPR.

Sewer Line/Water Main Separation Policy For Design Of Sanitary Sewers

A. LATERAL PLACEMENT OF SEWERS AND WATER MAINS

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

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

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

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

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

B. SEWERS CROSSING WATER MAINS

SEWERS CROSSING OVER WATER MAINS SHOULD BE AVOIDED, BUT IF CONDITIONS WARRANT THIS SITUATION, THEN ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO MAINTAIN LINE AND GRADE. SEWERS CROSSING UNDER WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL SEPARATION OF 18" BETWEEN THE INVERT OF THE WATER MAIN AND THE CROWN OF THE SEWER. THE CROSSING SHALL BE ARRANGED SO THAT SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS.

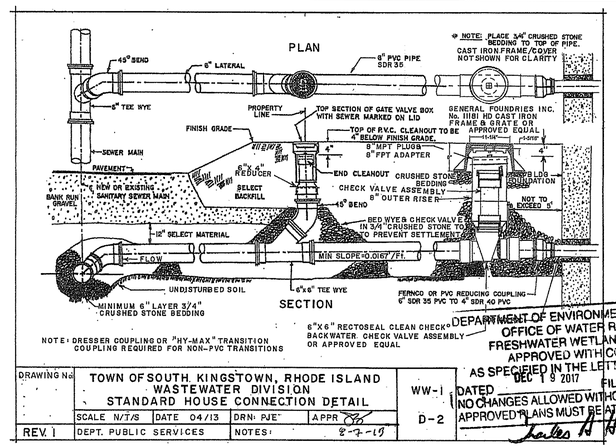
WHERE CONDITIONS PREVENT AN 18" VERTICAL SEPARATION FROM BEING MAINTAINED, THE FOLLOWING METHODS SHALL BE SPECIFIED:

A. THE SEWER SHALL BE DESIGNED AND CONSTRUCTED EQUAL TO WATER MAIN PIPE (CEMENT-LINED DUCTILE IRON PIPE, PVC OR OTHER AWWA APPROVED MATERIAL FOR POTABLE WATER CONVEYANCE) FOR A DISTANCE OF 12' ON EACH SIDE OF THE CROSSING, MEASURED PERPENDICULAR TO THE WATER MAIN AND PRESSURE TESTED IN ACCORDANCE WITH AWWA SPECIFICATIONS, OR

B. EITHER THE WATER MAIN OR THE SEWER MAY BE ENCASED IN CONCRETE (MINIMUM 6" THICKNESS) OR A CARRIER PIPE FOR A DISTANCE OF 12' ON EACH SIDE OF THE CROSSING, MEASURED PERPENDICULAR TO THE WATER MAIN. THE CARRIER PIPE SHALL BE DESIGNED AND CONSTRUCTED OF MATERIALS WHICH ARE SATISFACTORY TO THE DIVISION, OR

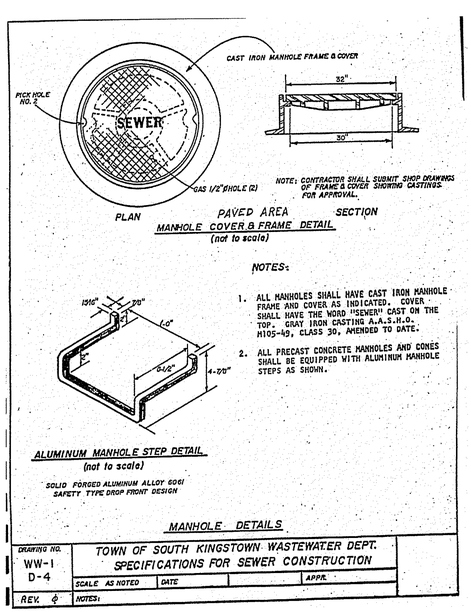
C. ANY OTHER METHODS, IF SUPPORTED BY DATA FROM THE DESIGN ENGINEER, WHICH ENSURE ADEQUATE WATER TIGHTNESS AND ARE SATISFACTORY TO THE DIVISION.

ALL STORM WATER, DRAINAGE AND SANITARY SEWER SHOP DRAWINGS SHALL BE SUBMITTED TO SOUTH KINGSTOWN PUBLIC SERVICES DEPARTMENT FOR APPROVAL PRIOR TO INSTALLATION AND ALL SHOP DRAWINGS RELATIVE TO THE WATER DISTRIBUTION SYSTEM SHALL REQUIRE UNITED WATER APPROVAL PRIOR TO INSTALLATION.



DRAWING No.	TOWN OF SOUTH KINGSTOWN, RHODE ISLAND WASTEWATER DIVISION STANDARD HOUSE CONNECTION DETAIL				WW-1 D-2
	SCALE N/T/S	DATE 04/13	DRN PJE	APPR	
REV. 1	DEPT. PUBLIC SERVICES	NOTES:		8-7-17	

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF
DEC 19 2017
FILE # 16-0028
DATED
NO CHANGES ALLOWED WITHOUT PRIOR
APPROVED PLANS MUST BE AS CONSTRUCTED
Charles A. Horbert



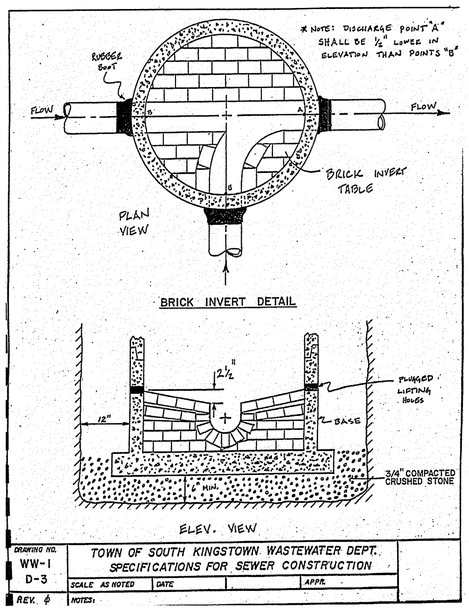
NOTES:

1. ALL MANHOLES SHALL HAVE CAST IRON MANHOLE FRAME AND COVER AS INDICATED. COVER SHALL HAVE THE WORD "SEWER" CAST ON THE TOP. GRAY IRON CASTING A.A.S.H.O. M105-49, CLASS 30, AMENDED TO DATE.
2. ALL PRECAST CONCRETE MANHOLES AND CONES SHALL BE EQUIPPED WITH ALUMINUM MANHOLE STEPS AS SHOWN.

ALUMINUM MANHOLE STEP DETAIL
(not to scale)
SOLID FORGED ALUMINUM ALLOY 6061 SAFETY TYPE DROP FRONT DESIGN

MANHOLE DETAILS

DRAWING NO.	TOWN OF SOUTH KINGSTOWN WASTEWATER DEPT. SPECIFICATIONS FOR SEWER CONSTRUCTION			
WW-1 D-4	SCALE AS NOTED	DATE		APPR.
REV. ϕ	NOTES:			



DRAWING NO.	TOWN OF SOUTH KINGSTOWN WASTEWATER DEPT. SPECIFICATIONS FOR SEWER CONSTRUCTION			
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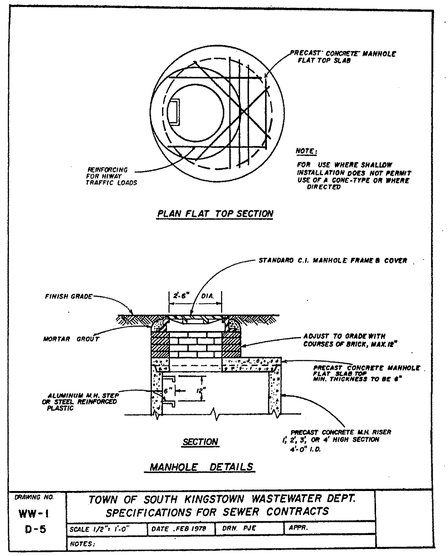
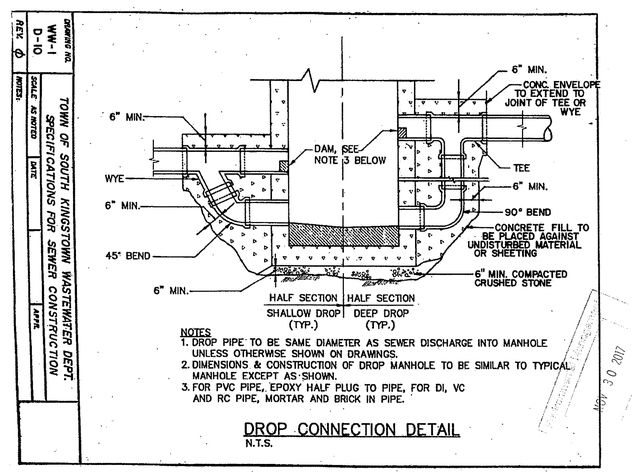
REV. ϕ	NOTES:			



DRAWING NO.	TOWN OF SOUTH KINGSTOWN WASTEWATER DEPT. SPECIFICATIONS FOR SEWER CONTRACTS			
WW-1 D-5	SCALE 1/2"=1'-0"	DATE FEB 1978	DRN PJE	APPR.
	NOTES:			



NOTES
1. DROP PIPE TO BE SAME DIAMETER AS SEWER DISCHARGE INTO MANHOLE UNLESS OTHERWISE SHOWN ON DRAWINGS.
2. DIMENSIONS & CONSTRUCTION OF DROP MANHOLE TO BE SIMILAR TO TYPICAL MANHOLE EXCEPT AS SHOWN.
3. FOR PVC PIPE, EPOXY HALF PLUG TO PIPE, FOR DI, VC AND RC PIPE, MORTAR AND BRICK IN PIPE.

DROP CONNECTION DETAIL
N.T.S.

DRAWING NO.	TOWN OF SOUTH KINGSTOWN WASTEWATER DEPT. SPECIFICATIONS FOR SEWER CONSTRUCTION			
WW-1 D-10	SCALE AS NOTED	DATE		APPR.
REV. ϕ	NOTES:			

May 30 2017

DiPrete Engineering
Two Stafford Court Cranston, RI 02920
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DAVID A. RUSSO
No. 14349
REGISTERED PROFESSIONAL ENGINEER
CIVIL

No.	Date	Description	By
3	9/25/2017	RIDEM Wetlands Modification	BCG
2	8/7/2017	RIDEM Wetlands Modification	BCG
1	6/21/2016	RIDEM Wetlands Re-Submission	BCG
0	2/10/2016	RIDEM Wetland Submission	BCG

Drawn By: SEK | Designed by: BCG

Detail Sheet - 3

Wilson & Tarn Street Development
Assessor's Plat 57-1, Lots 121, 122 & 146
South Kingstown, Rhode Island

Prepared For:
South County Post & Beam Inc.
521 Liberty Lane
West Kingston, RI 02892 Tel (401) 783-4615

SHEET 10 OF 10

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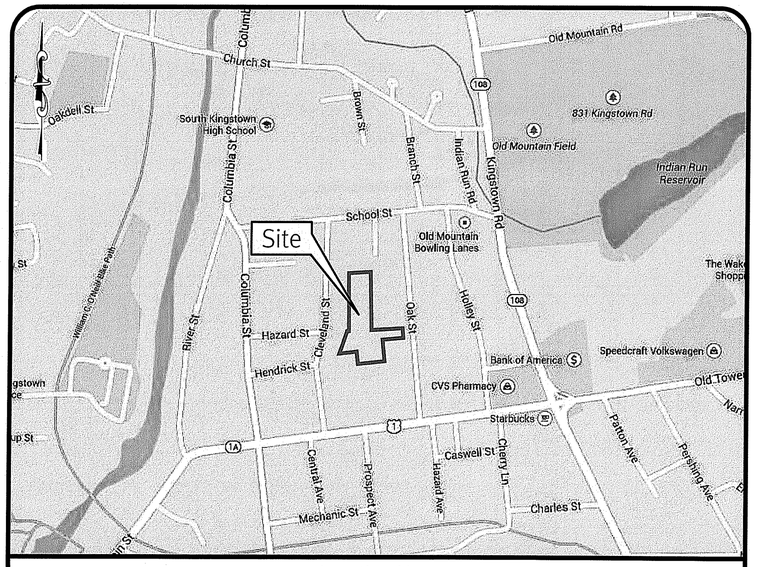
Preliminary Submission

Wilson & Tarn Street Development

South Kingstown, Rhode Island

Assessor's Plat 57-1 Lots 121, 122 & 146



Location Map Scale: 1" = 500'

Sheet Index

1. Cover Sheet
2. Aerial Half Mile Radius Plan
3. Existing Conditions Plan
4. Site Plan
5. Grading Plan
6. Plan & Profile
7. Soil Erosion & Sediment Control Plan
8. Detail Sheet - Water
9. Detail Sheet - Drainage - 1
10. Detail Sheet - Drainage - 2
11. Detail Sheet - Sewer

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED SEP 8 2016 FILE # 16-0024
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE

SESC / O&M

The Soil Erosion and Sediment Control Plan (SESC) and Operations and Maintenance Plan (O&M) are required documents with this plan set and must be maintained by the contractor and owner onsite.

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DAVID A. RUSSO
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Environmental Management
AUG 5 2016
Office of Water Resources

No.	Date	Description	By:
2	8/4/2016	RIDEM Wetlands ReSubmission	MSC
1	6/13/2016	RIDEM Wetlands ReSubmission	MSC
0	4/7/2016	RIDEM Wetlands Submission	MSC

Drawn By: DAR

Cover Sheet

Wilson & Tarn Street Development

Assessor's Plat 57-1, Lots 121, 122 & 146
South Kingstown, Rhode Island

Applicant
South County Post & Beam Inc.
521 Liberty Lane
West Kingston, RI 02892 Tel (401) 783-4415

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SHEET 1 OF 11

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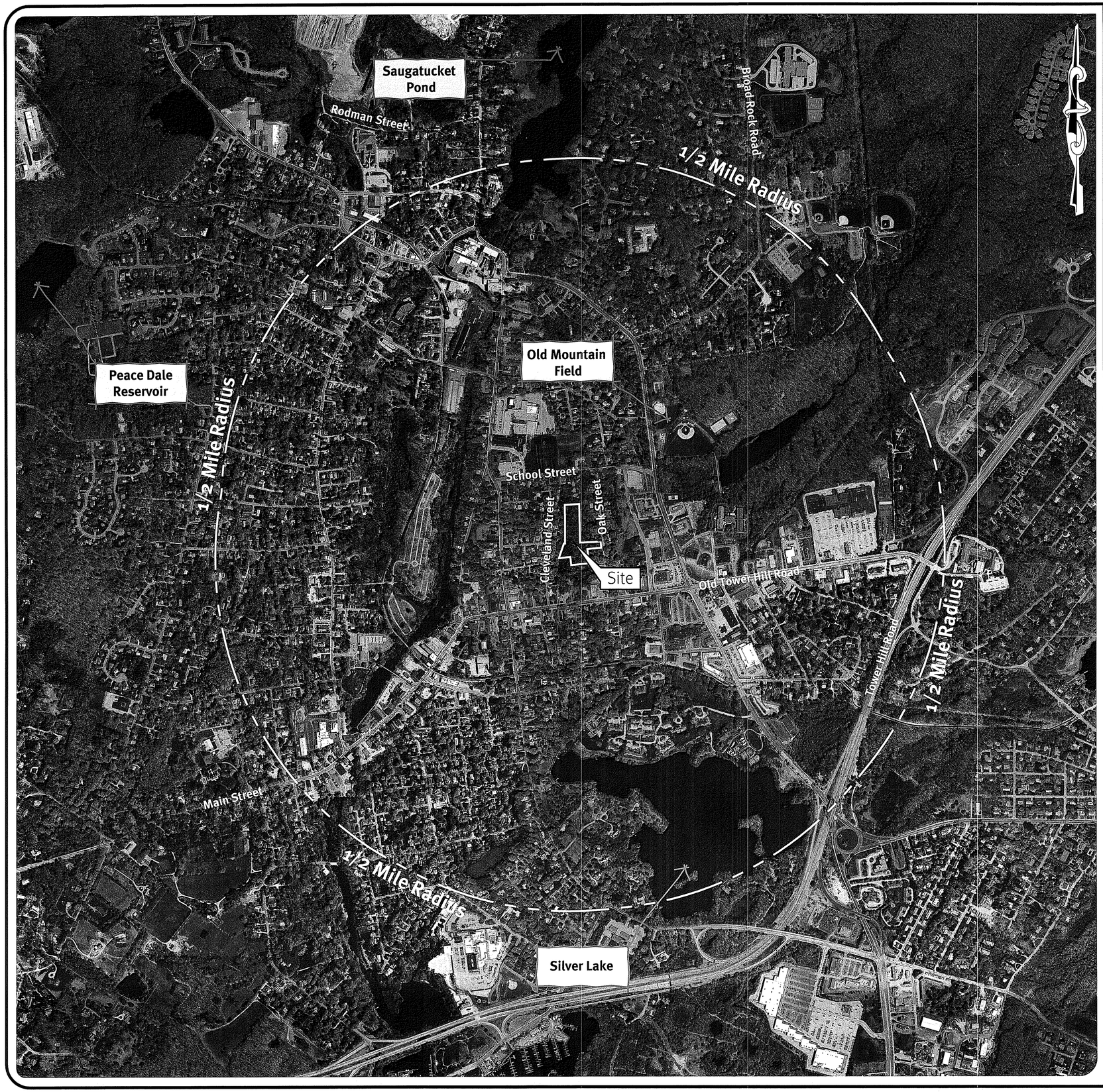

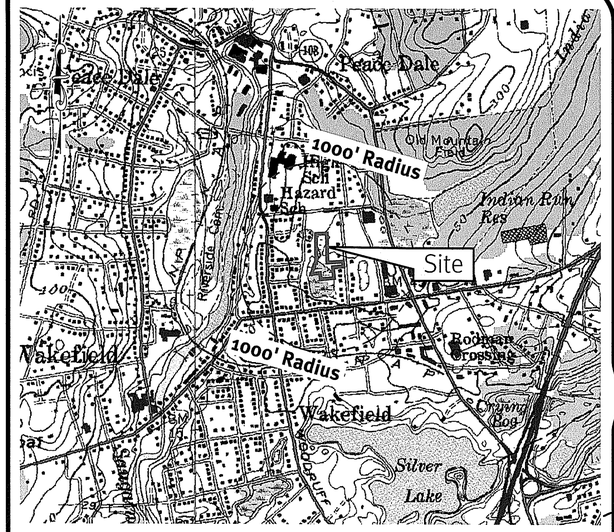

USGS Map Scale: 1"=1000'

Photo obtained from the RI-GIS.

Scale: 1"=500'

0 250' 500' 1000'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED SEP 8 2016 FILE # 16-0025
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Charles A. Horbert

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Environmental Management
AUG 5 2016
Office of Water Resources

No.	Date	Description	By:
2	9/1/2016	RIDEM Wetlands Re-Submission	MSC
1	8/12/2016	RIDEM Wetlands Re-Submission	MSC
0	2/10/2016	RIDEM Wetland Submission	DAR

Drawn By: DAR

Aerial Half Mile Radius Plan

Wilson & Tarn Street Development

Assessor's Plat 57-1, Lots 121, 122 & 146
South Kingstown, Rhode Island

Applicant
South County Post & Beam Inc.
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General Notes:

1. THE SITE IS LOCATED ON THE TOWN OF SOUTH KINGSTOWN, RHODE ISLAND ASSESSOR'S PLAT 57-1 LOTS 121, 122 & 146.
2. THE TOTAL SITE IS APPROXIMATELY 2.91± ACRES AND IS ZONED R-10.
3. THE OWNER OF AP 57-1 LOTS 121, 122 & 146 IS: OAK STREET INVESTMENTS
   521 LIBERTY LANE
   WEST KINGSTON, RI 02892
4. THIS SITE IS LOCATED IN FEMA FLOOD ZONES X (SHADED) AND X (UNSHADED). REFERENCE FEMA FLOOD INSURANCE RATE MAP 44009C0203J, MAP REVISED OCTOBER 16, 2013. (FLOOD PLAIN DESCRIPTIONS SHOWN ABOVE)
5. THE BOUNDARY LINE AS SHOWN ON THIS PLAN DEPICTS A CLASS I SURVEY AS PERFORMED BY DIPRETE ENGINEERING ASSOCIATES, INC. THE PLAN ITSELF CONFORMS ONLY TO A CLASS III STANDARD AS ADOPTED BY RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS. THIS PLAN IS NOT TO BE CONSTRUED AS A CLASS I BOUNDARY PLAN AND IS NOT SUITABLE FOR RECORDING AS A CLASS I STANDARD. SEE SHEET C1.0 FOR BOUNDARY SURVEY PLAN.
6. SOIL MAPPING OBTAINED FROM SOIL SURVEY OF RHODE ISLAND', PREPARED BY U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE.
7. THE SITE HAS WATER SERVICE AVAILABLE PER UNITED WATER (8-20-2014)
8. THE SITE IS NOT WITHIN A:
   GROUNDWATER PROTECTION AREA (RIDEM)
   NATURAL HERITAGE AREAS (RIDEM)
   NARROW RIVER SPECIAL AREA MANAGEMENT PLAN (CRMC)
   SALT PONDS SPECIAL AREA MANAGEMENT PLAN (CRMC)
   GROUNDWATER PROTECTION OVERLAY DISTRICT (TOWN)
9. THE SITE HAS PUBLIC SEWER AVAILABLE ON OAK STREET PER SOUTH KINGSTOWN PUBLIC SERVICES (8-20-2014)

Abbreviations:

EXISTING	EX
PROPOSED	PR
ASSESSOR'S PLAT	AP
ASBESTOS CONCRETE	AC

Legend:

EX MAJOR FOOT CONTOUR — 160 —
EX MINOR FOOT CONTOUR — 158 —
SOIL LINE AND DESIGNATION HkC / CaD
PROPERTY LINE
ASSESSOR LINE
IINTERNAL LOT LINE
WETLAND EDGE
WETLAND HATCH
WETLAND FLAG ▲A5
EDGE OF PAVEMENT
EX BUILDING
TREELINE
SEWER LINE — S —
SOIL EVALUATION SEV

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL.
DATED SEP 8 2016 FILE # 16-0025
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Charles A Horbert

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Environmental Management
AUG 5 2016
Office of Water Resources

No.	Date	Description	By:
2	8/4/2016	RIDEM Wetlands Re-Submission	MSC
1	6/23/2016	RIDEM Wetlands Re-Submission	MSC
0	2/10/2016	RIDEM Wetland Submission	DRR

Drawn By: DAR

Existing Conditions Plan
Wilson & Tarn Street Development

Assessor's Plat 57-1, Lots 121, 122 & 146
South Kingstown, Rhode Island

Applicant
South County Post & Beam Inc.
521 Liberty Lane
West Kingston, RI 02892

Tel (401) 783-4415

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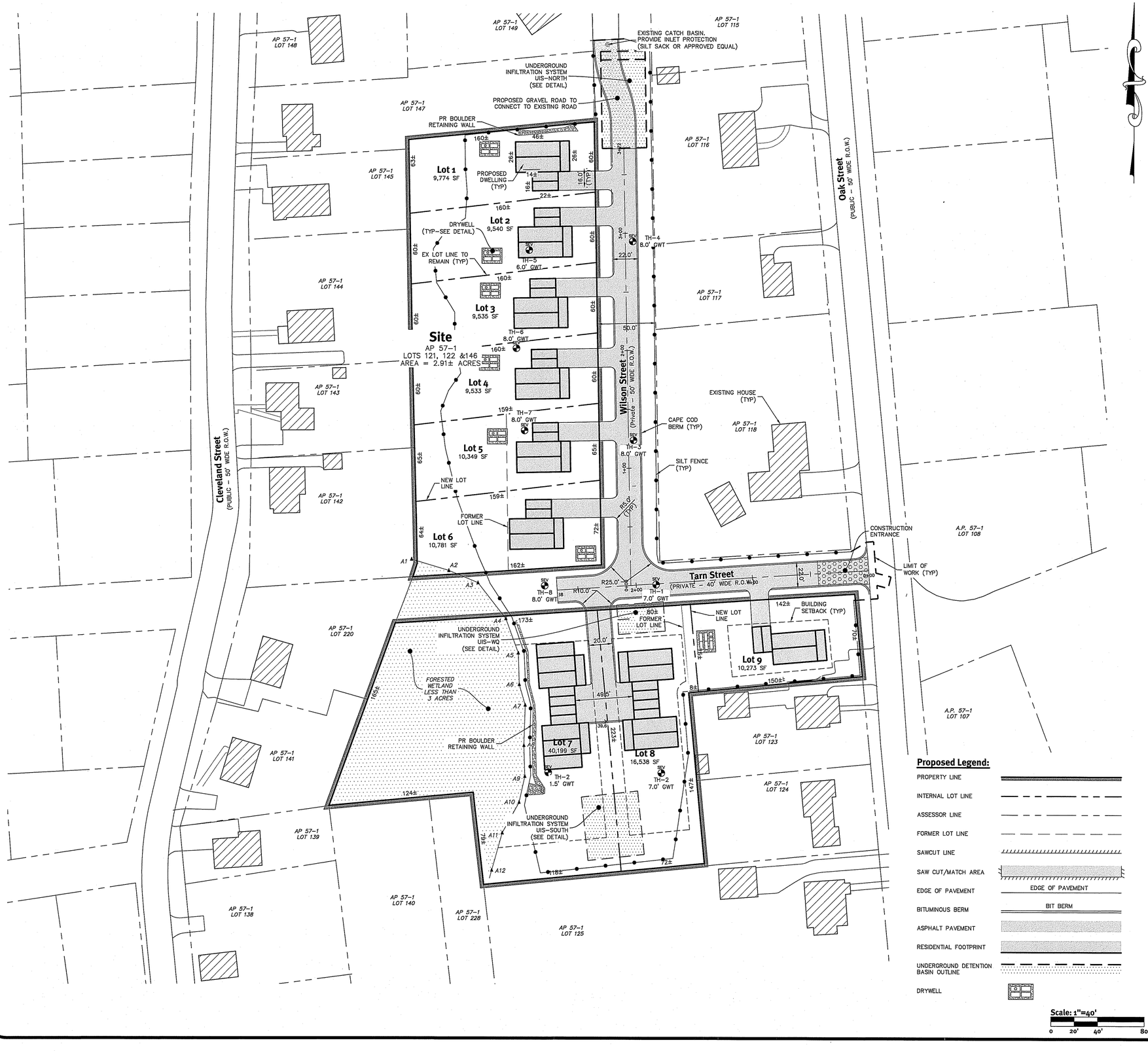

Proposed Legend:

- PROPERTY LINE
- INTERNAL LOT LINE
- ASSESSOR LINE
- FORMER LOT LINE
- SAWCUT LINE
- SAW CUT/MATCH AREA
- EDGE OF PAVEMENT (EDGE OF PAVEMENT)
- BITUMINOUS BERM (BIT BERM)
- ASPHALT PAVEMENT
- RESIDENTIAL FOOTPRINT
- UNDERGROUND DETENTION BASIN OUTLINE
- DRYWELL

Scale: 1"=40'

0 20' 40' 80'

General Notes:

1. THE SITE IS LOCATED ON THE TOWN OF SOUTH KINGSTOWN, RHODE ISLAND ASSESSOR'S PLAT 57-1 LOTS 121, 122 & 146.
2. THE SITE IS APPROXIMATELY 2.91± ACRES AND IS ZONED R-10.
3. THE OWNER OF AP 57-1 LOTS 121, 122 & 146 IS: OAK STREET INVESTMENTS 521 LIBERTY LANE WEST KINGSTON, RI 02892
4. THIS SITE IS LOCATED IN FEMA FLOOD ZONES X (SHADED) AND X (UNSHADED). REFERENCE FEMA FLOOD INSURANCE RATE MAP 44009C0203J, MAP REVISED OCTOBER 16, 2013.
5. THE BOUNDARY LINE AS SHOWN ON THIS PLAN DEPICTS A CLASS I SURVEY AS PERFORMED BY DIPRETE ENGINEERING ASSOCIATES, INC. THE PLAN ITSELF CONFORMS ONLY TO A CLASS III STANDARD, AS ADOPTED BY RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS. THIS PLAN IS NOT TO BE CONSTRUED AS A CLASS I BOUNDARY PLAN AND IS NOT SUITABLE FOR RECORDING AS A CLASS I STANDARD. SEE SHEET C1.0 FOR BOUNDARY SURVEY PLAN.
6. SOIL MAPPING OBTAINED FROM SOIL SURVEY OF RHODE ISLAND, PREPARED BY U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE.
7. THE SITE IS NOT WITHIN A:
   GROUNDWATER PROTECTION AREA
   NATURAL HERITAGE AREAS
   NARROW RIVER SPECIAL AREA MANAGEMENT PLAN
   SALT PONDS SPECIAL AREA MANAGEMENT PLAN
   GROUNDWATER PROTECTION OVERLAY DISTRICT
8. THE FOLLOWING DOCUMENTS ARE CONSIDERED PART OF THE PROJECT PLANS AND THE CONTRACTOR/ OWNER MUST MAINTAIN THESE DOCUMENTS AS PART OF A FULL PLAN SET:
   - SOIL EROSION AND SEDIMENT CONTROL PLAN (SESC). THE SESC CONTAINS THE FOLLOWING:
     - EROSION CONTROL MEASURES
     - SHORT TERM MAINTENANCE
     - ESTABLISHMENT OF VEGETATIVE COVER
     - CONSTRUCTION POLLUTION PREVENTION
     - SEQUENCE OF CONSTRUCTION
   - OPERATIONS AND MAINTENANCE PLAN (O&M). THE O&M CONTAINS THE FOLLOWING:
     - LONG TERM MAINTENANCE
     - LONG TERM POLLUTION PREVENTION
9. THIS PLAN SET REFERENCES RIDOT STANDARD DETAILS (DESIGNATED AS RIDOT STD X.X.X.). RIDOT STANDARD DETAILS ARE AVAILABLE FROM RIDOT AND ONLINE AT: WWW.DOT.STATE.RI.US/ENGINEERING/STANDARDS/INDEX.ASP.
10. THE SITE IS TO BE SERVICED BY PUBLIC WATER AND PUBLIC SEWER.
11. EXISTING RIGHTS OF WAY ARE AS SHOWN ON PLANS.
12. THE DRAINAGE SYSTEM IS DESIGNED TO MEET THE SOUTH KINGSTOWN SUBDIVISION AND LAND DEVELOPMENT REGULATIONS WITH THE USE OF CATCH BASINS AND UNDERGROUND DRAINAGE SYSTEMS. THE STORMWATER MANAGEMENT SYSTEM MEETS THE RIDEM BEST MANAGEMENT PRACTICES.
13. THE SITE IS PROPOSED TO BE BUILT IN 2 PHASES. PHASE 1 TO INCLUDE LOTS 1 THROUGH 6, ROADWAY UTILITIES, AND ALL DRAINAGE COMPONENTS. PHASE 2 TO INCLUDE LOTS 7 THROUGH 9.
14. TEST HOLES AND SOIL EVALUATIONS WERE COMPLETED BY DIPRETE ENGINEERING ON MAY 1, 2015.

Development Data:

TOTAL SITE AREA:	2.91± ACRES
TOTAL NUMBER OF LOTS:	9
TOTAL NUMBER OF UNITS:	11
TOTAL LOT AREA:	2.91 ACRES
TOTAL OPEN SPACE:	–
AVERAGE LOT AREA:	0.32 ACRES
RIGHT OF WAY AREA:	–
RIGHT OF WAY WIDTH:	40'/50' (EXISTING)
LENGTH OF ROAD:	638'
PAVEMENT WIDTH:	20' WITH 1' BERM ON EACH SIDE

Dimensional Regulations:

CURRENT ZONING:	R-10
	REQUIRED
MINIMUM LOT AREA:	10,000 SF
MINIMUM FRONTAGE AND LOT WIDTH:	80'
MINIMUM FRONT AND CORNER SIDE YARD:	25'
MINIMUM SIDE YARD:	10'
MINIMUM REAR YARD:	30'
MAXIMUM STRUCTURE HEIGHT:	35'
MAXIMUM LOT BUILDING COVERAGE:	25%

Layout and Materials:

1. DIMENSIONS ARE FROM THE FACE OF CURB, FACE OF BUILDING, FACE OF WALL, AND CENTER LINE OF PAVEMENT MARKINGS, UNLESS OTHERWISE NOTED.
2. CURB RADII ARE AS NOTED ON PLANS.
3. CURBING SHALL BE BITUMINOUS BERM OR AS LABELED ON THE PLANS.
4. SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SCALED TO THEIR ACTUAL DIMENSIONS OR LOCATIONS ON THE DRAWINGS. THE CONTRACTOR SHALL REFER TO THE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.
5. SEE ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS AND DETAILS CONTIGUOUS TO THE BUILDING, INCLUDING SIDEWALKS, RAMPS, BUILDING ENTRANCES, STAIRWAYS, UTILITY PENETRATIONS, CONCRETE DOOR PADS, COMPACTOR PAD, LOADING DOCKS, BOLLARDS, ETC.
6. PROPOSED BOUNDS AND ANY EXISTING PROPERTY LINE MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE SET OR RESET BY A PROFESSIONAL LICENSED SURVEYOR.
7. CONTRACTOR SHALL NOT RELY SOLELY ON ELECTRONIC VERSIONS OF PLANS, SPECIFICATIONS, AND DATA FILES THAT ARE OBTAINED FROM THE DESIGNERS, BUT SHALL VERIFY LOCATION OF PROJECT FEATURES IN ACCORDANCE WITH THE PAPER COPIES OF THE PLANS AND SPECIFICATIONS THAT ARE SUPPLIED AS PART OF THE CONTRACT DOCUMENTS.

Soil Information:

(REFERENCE: SOIL SURVEY OF RHODE ISLAND, U.S.D.A. SOIL CONSERVATION SERVICE)

SOIL NAME	DESCRIPTION
Ao	ADRIAN MUCK
HkC	HINCKLEY GRAVELLY SANDY LOAM, ROLLING
MU	MERRIMAC-URBAN LAND COMPLEX

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED SEP 8 2016 FILE # 16-0027
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Horbert

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DAVID A. RUSSO No. 14355 REGISTERED PROFESSIONAL ENGINEER CIVIL

Environmental Management AUG 5 2016 Office of Water Resources

No.	Date	Description	By:
1	8/4/2016	RIDEM Wetlands Re-Submission	HSC
2	6/21/2016	RIDEM Wetlands Re-Submission	HSC
3	2/10/2016	RIDEM Wetland Submission	DNR

Drawn By: DAR

Site Plan

Wilson & Tarn Street Development

Assessor's Plat 57-1 Lots 121, 122 & 146
South Kingstown, Rhode Island

Applicant:
South County Post & Beam Inc.
521 Liberty Lane
West Kingston, RI 02892 Tel (401) 783-4475

DE Job No: 2214-001 Copyright 2016 by DiPrete Engineering Associates, Inc.

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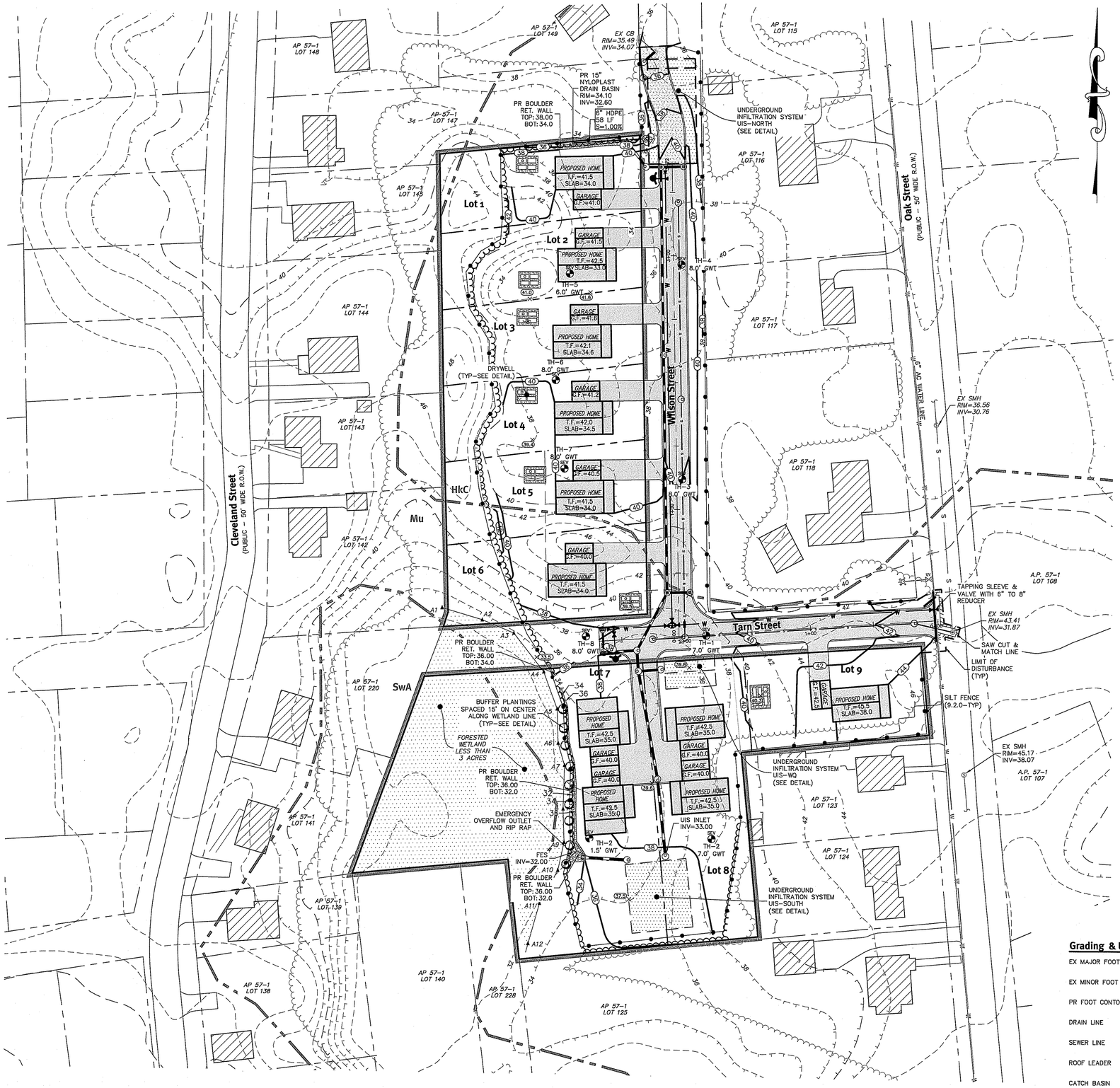

Grading and Utility Notes:

1. THE CONTRACTOR IS RESPONSIBLE FOR ALL SOIL EROSION AND SEDIMENT CONTROL ONSITE. THE CONTRACTOR IS TO NOTIFY THE DESIGN ENGINEER, THE DIRECTOR OF PUBLIC WORKS, THE TOWN ENGINEER, AND RI DEPT. OF ENVIRONMENTAL MANAGEMENT AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
2. CONTRACTOR TO OBTAIN ALL FEDERAL, STATE, AND MUNICIPAL APPROVALS PRIOR TO THE START OF CONSTRUCTION.
3. CONSTRUCTION TO COMMENCE UPON RECEIPT OF ALL NECESSARY APPROVALS.
4. ALL WORK PERFORMED HEREIN SHALL BE GOVERNED BY THE RHODE ISLAND STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION AND TOWN OF SOUTH KINGSTOWN STANDARD SPECIFICATIONS AND DETAILS.
5. SEQUENCE OF CONSTRUCTION PROVIDED IN SESC MAY BE MODIFIED AS FIELD CONDITIONS WARRANT WITH PRIOR APPROVAL FROM THE OWNER OR OWNER'S REPRESENTATIVE.
6. THE CONTRACTOR SHALL COORDINATE WITH ALL OF THE APPROPRIATE UTILITY COMPANIES FOR AGREEMENTS TO SERVICE THE PROPOSED BUILDING. THIS SHALL BE DONE PRIOR TO CONSTRUCTION. NO REPRESENTATIONS ARE MADE BY DIPRETE ENGINEERING THAT UTILITY SERVICE IS AVAILABLE.
7. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING FINISH GRADING AND DRAINAGE AROUND THE BUILDING TO ENSURE SURFACE WATER AND/OR GROUND WATER ARE DIRECTED AWAY FROM THE STRUCTURE.
8. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL VERIFY EXISTING PAVEMENT ELEVATIONS AT INTERFACE WITH PROPOSED PAVEMENTS, AND EXISTING GROUND ELEVATIONS ADJACENT TO DRAINAGE OUTLETS TO ASSURE PROPER TRANSITIONS BETWEEN EXISTING AND PROPOSED FACILITIES.
9. ALL PROPOSED UNDERGROUND UTILITIES SERVING THE SITE AND BUILDINGS TO BE COORDINATED WITH APPLICANT, ARCHITECT, AND ENGINEER PRIOR TO INSTALLATION.
10. ALL TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION INCLUDING ALL REVISIONS.
11. ALL CUT AND FILL AREAS ARE TO BE DONE UNDER THE DIRECTION OF A GEOTECHNICAL ENGINEER WITH TESTING AND CERTIFICATION TO BE PROVIDED TO THE APPLICANT AT THE COMPLETION OF THE PROJECT. DIPRETE ENGINEERING ASSOCIATES, INC. IS NOT PROVIDING THE FILL SPECIFICATION, GEOTECHNICAL ENGINEERING, STRUCTURAL ENGINEERING SERVICES, OR SUPERVISION AS PART OF THESE DRAWINGS.
12. ALL COMPONENTS OF THE DRAINAGE, SEWER AND WATER SYSTEMS MUST BE ASBUILT PRIOR TO COVERING. ENGINEER TO BE NOTIFIED PRIOR TO COVERING TO SURVEY ASBUILT LOCATIONS. ENGINEER WILL NOT ACCEPT FIELD MEASUREMENTS FROM THE SITE CONTRACTOR.
13. NO STOCKPILING OF MATERIAL TO BE LOCATED IN THE RIGHT OF WAY AND NO OPEN TRENCHES ARE TO BE LEFT OVERNIGHT.
14. ALL LOAM IN DISTURBED AREAS TO BE STOCKPILED FOR FUTURE USE.
15. ALL EXCESS SOIL, TREES, ROCKS, BOULDERS, AND OTHER REFUSE, SHALL BE DISCARDED OFF SITE IN AN ACCEPTABLE MANNER AT AN APPROVED LOCATION. STUMPS SHALL BE GROUND ONSITE OR REMOVED.
16. NO STUMP DUMPS ARE PROPOSED ONSITE.
17. ALL EXISTING UTILITIES SHOWN ARE FROM VISIBLE INFORMATION, DRAWINGS FROM OTHERS, OR INFORMATION PROVIDED TO DIPRETE ENGINEERING AND ARE SUBJECT TO CHANGE. THE LOCATIONS OF UNDERGROUND PIPES AND CONDUITS HAVE BEEN DETERMINED FROM AFOREMENTIONED PLANS OF RECORD AND ARE APPROXIMATE ONLY. PRIOR TO CONSTRUCTION, THE PROPER UTILITY ENGINEERING DEPARTMENTS SHALL BE CONTACTED AND THE ACTUAL LOCATION OF SUBSURFACE STRUCTURES SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR. CALL THE DIG SAFE CENTER TOLL FREE AT 1-888-344-7233 72 HOURS PRIOR TO EXCAVATION. NOTIFY DESIGN ENGINEER OF ANY DISCREPANCIES PRIOR TO EXCAVATION. ANY DAMAGE TO UTILITIES WHICH ARE SHOWN ON THE PLANS OR DETAILED BY DIG SAFE SHALL BE THE SITE CONTRACTORS RESPONSIBILITY.
18. IF CONCRETE TRUCKS ARE WASHED OUT ONSITE, ALL WASHOUT MUST BE COMPLETED IN THE DESIGNATED CONCRETE WASHOUT AREA.

Traffic Notes:

1. DURING CONSTRUCTION TRAFFIC CONES ARE TO BE USED FOR SEPARATION OF ACTIVE TRAFFIC FROM WORK ZONE.
2. DURING CONSTRUCTION FLAGGERS SHALL BE EMPLOYED TO ENSURE SAFETY FOR INTERACTION OF CONSTRUCTION VEHICLES AND ACTIVE TRAFFIC.
3. ALL SIGNS, FLAGGERS, TRAFFIC CONTROL DEVICES, AND TEMPORARY TRAFFIC ZONE ACTIVITIES SHALL MEET THE REQUIREMENTS OF THE MUTCD LATEST EDITION AND SUBSEQUENT ADDENDA.
4. TEMPORARY CONSTRUCTION SIGNS SHALL BE MOUNTED ON RIDOT APPROVED SUPPORTS AND SHALL BE REMOVED OR COVERED WHEN NOT APPLICABLE.
5. ALL TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES CURRENT EDITION.

As-Built Notes:

1. ALL COMPONENTS OF THE DRAINAGE MUST BE ASBUILT PRIOR TO COVERING. ENGINEER TO BE NOTIFIED PRIOR TO COVERING SURVEY ASBUILT LOCATIONS. ENGINEER WILL NOT ACCEPT FIELD MEASUREMENTS FROM THE SITE CONTRACTOR.

UIC Notes:

PROPOSED UNDERGROUND DRAINAGE SYSTEM MEETS ALL THE FOLLOWING UIC MINIMUM SETBACK REQUIREMENTS:

1. 400 FEET FROM ALL PUBLIC WATER WELLS (SAND & GRAVEL)
2. 200 FEET FROM ALL PUBLIC WATER WELLS (BEDROCK)
3. 200 FEET FROM ALL SURFACE DRINKING WATER SUPPLY IMPOUNDMENTS
4. 100 FEET FROM ALL PRIVATE DRINKING WATER WELLS
5. 100 FEET FROM ALL OTHER SURFACE WATERS
6. 25 FEET FROM ALL OWTS & OTHER GROUNDWATER DISCHARGE SYSTEMS
7. 25 FEET FROM ALL BUILDING FOUNDATIONS IF SYSTEM IS ABOVE SLAB ELEVATION.
8. 10 FEET FROM ALL PROPERTY LINES
9. 10 FEET FROM ALL BUILDING FOOTINGS

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED SEP 8 2016 FILE # 16-0028
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.
Charles A. Horbert

Grading & Utilities Legend:

EX MAJOR FOOT CONTOUR — 160
EX MINOR FOOT CONTOUR — 158
PR FOOT CONTOUR — 310
DRAIN LINE
SEWER LINE — S — S
ROOF LEADER — RL — RL
CATCH BASIN
MANHOLE
UNDERGROUND INFILTRATION BASIN OUTLINE
DRYWELL
WATER LINE — W — W — X" WATER LINE
WATER VALVE
THRUST BLOCK
HYDRANT
WATER SHUT OFF

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DAVID A. RUSSO
No. 14355
REGISTERED PROFESSIONAL ENGINEER
CIVIL

Environmental Management
AUG 5 2016
Office of Water Resources

No.	Date	Description	By
1	8/4/2016	RIDEM Wetland ReSubmission	MSC
2	6/21/2016	RIDEM Wetlands ReSubmission	MSC
3	2/10/2016	RIDEM Wetland Submission	DNR

Drawn By: DAR

Grading Plan
Wilson & Tarn Street Development
Assessor's Plat 57-1, Lots 121, 122 & 146
South Kingstown, Rhode Island
Applicant
South County Post & Beam Inc.
521 Liberty Lane
West Kingston, RI 02892 Tel (401) 783-4015

SHEET 5 OF 11

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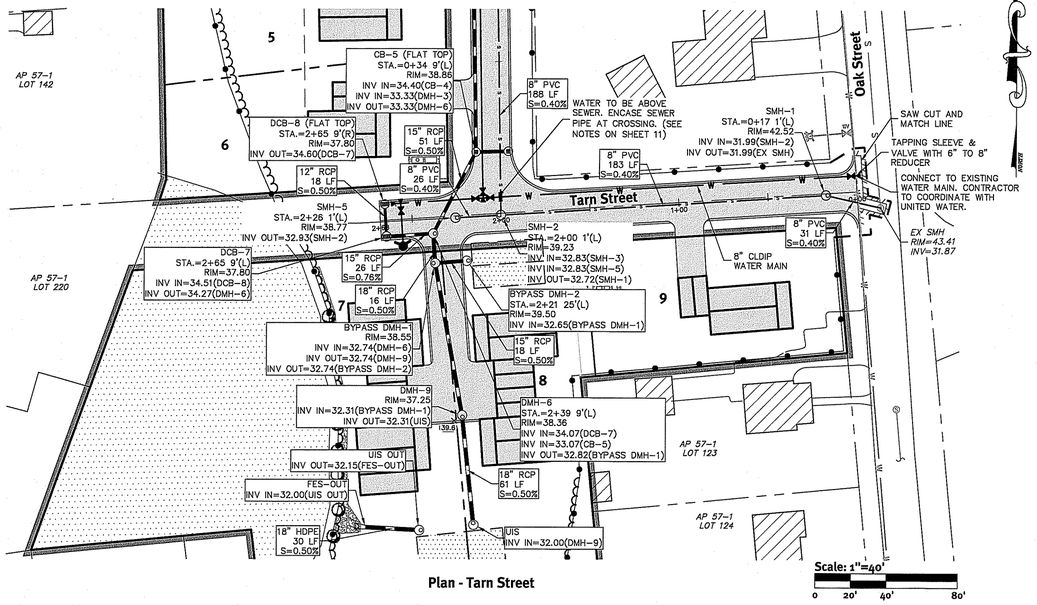
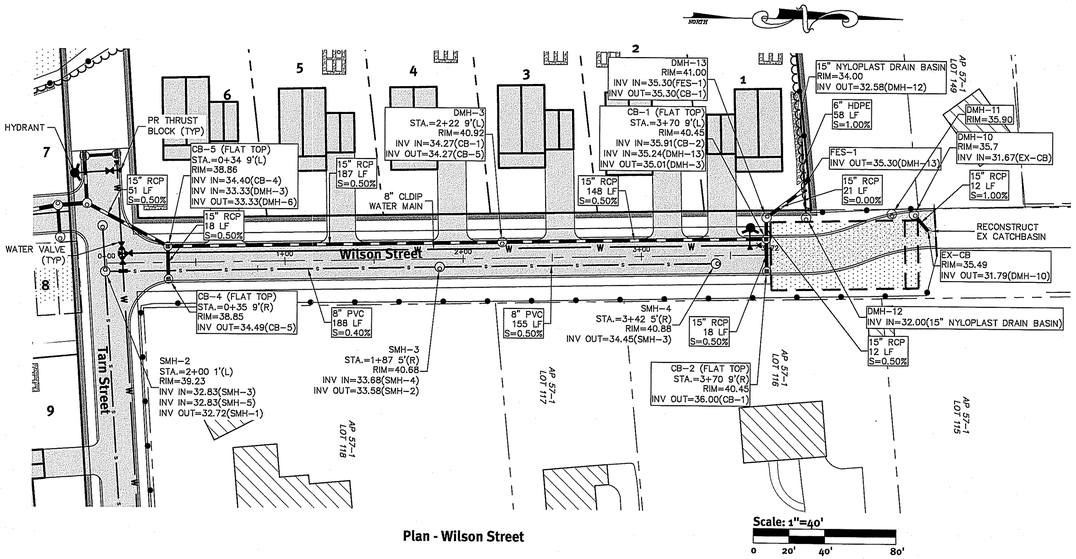
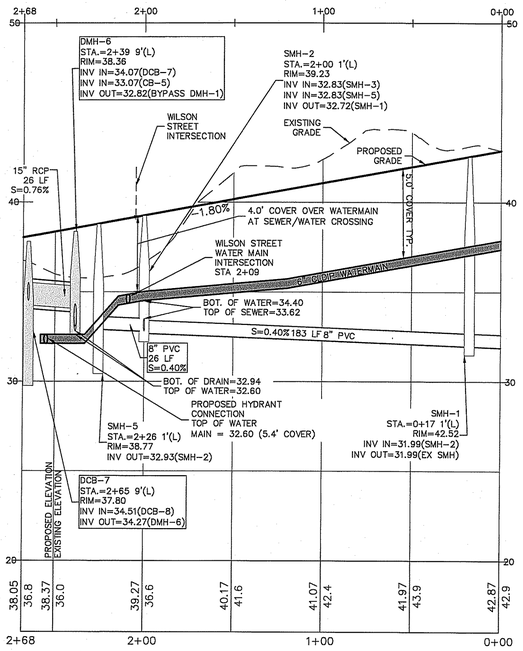


Plan - Tarn Street



Plan - Wilson Street



Profile - Tarn Street

Profile - Wilson Street

Vertical: 0 2' 4' 8'

Horizontal: 0 20' 40' 80'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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DATED SEP 8 2015 FILE # 16-0028
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
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Charles A. Horbert

Environmental Management
AUG 5 2016
Office of Water Resources

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Boston • Providence • Newport

DAVID A. RUSSO
No. 11395
REGISTERED PROFESSIONAL ENGINEER CIVIL

No.	Date	Description	By
3	8/4/2016	RIDEM Wetland Resubmission	MSC
2	6/27/2016	RIDEM Wetland Resubmission	MSC
1	2/26/2016	RIDEM Wetland Submission	DNR
0	2/02/2016	DNR	DNR

Drawn By: DAR

Plan and Profile

Wilson & Tarn Street Development

Assessor's Plat 57-1, Lots 121, 122 & 146
South Kingstown, Rhode Island

Applicant
South County Post & Beam Inc.
521 Liberty Lane
West Kingston, RI 02892 Tel (401) 789-4415

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SHEET 6 OF 11

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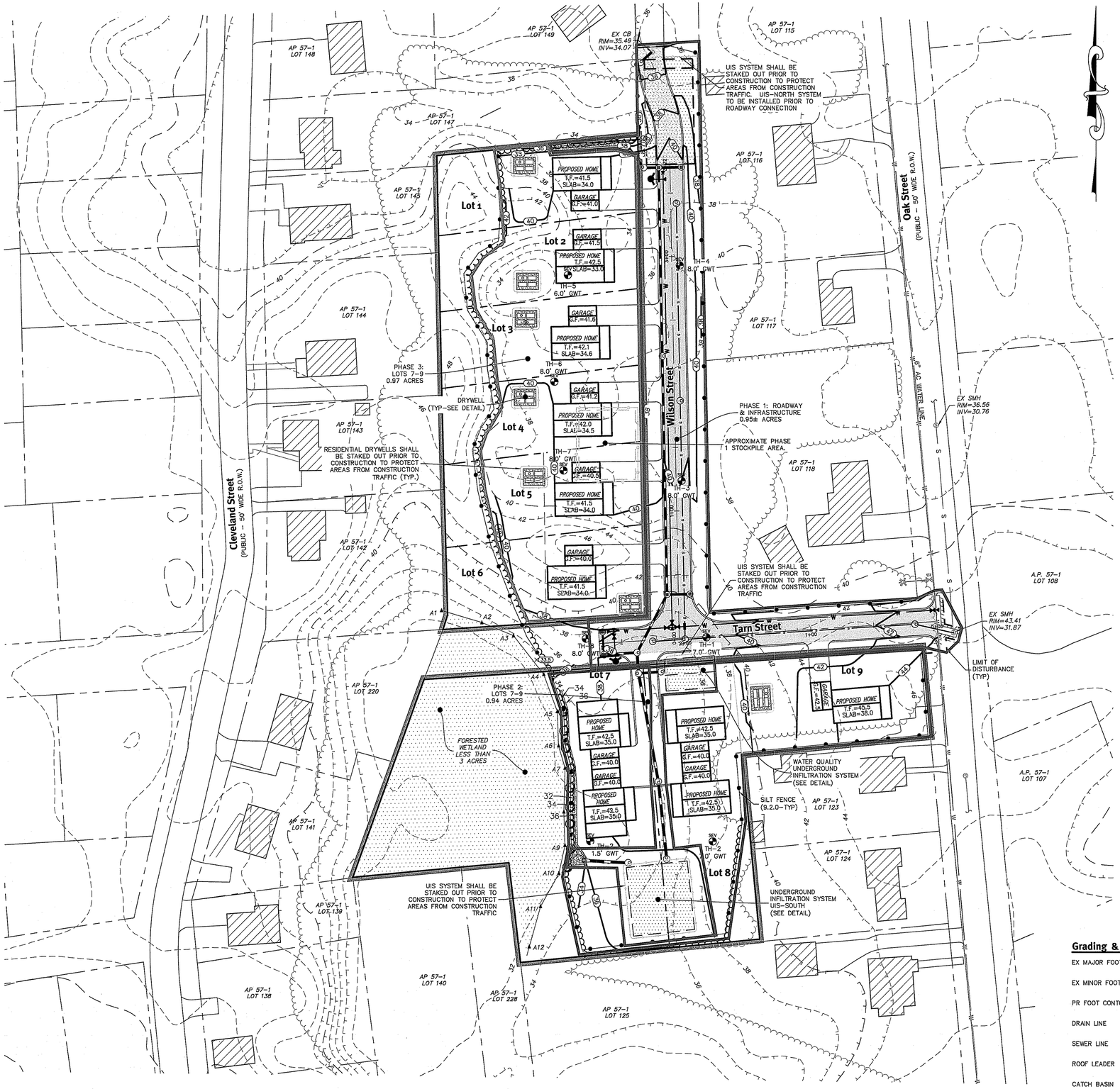

Scale: 1"=40'
0 20' 40' 80'

General Notes:

1. ALL EROSION CONTROL MEASURES ETC. SHALL BE INSTALLED PER THE RHODE ISLAND SOIL EROSION AND SEDIMENTATION CONTROL LATEST EDITION.
2. SILT FENCE OR AN APPROVED EROSION EROSION CONTROL SHALL BE USED TO CONTROL RUNOFF DURING CONSTRUCTION OF THE SITE.
3. VEHICLE MAINTENANCE AND WASHING SHALL OCCUR OFF-SITE.
4. INLET PROTECTION SHALL BE INSTALLED ON ALL CATCH BASINS ONCE CONSTRUCTED.
5. CONCRETE WASHOUT AREAS TO BE LOCATED AT EACH PARKING AREA AS NEEDED.
6. CONTRACTOR MAY MODIFY SEQUENCE OF CONSTRUCTION WITH APPROVAL FROM DESIGN ENGINEER.
7. UNDERGROUND INFILTRATION SYSTEM AREAS SHALL BE STAKED OFF, DEMARCATED AND PROTECTED FROM CONSTRUCTION TRAFFIC DURING ALL CONSTRUCTION PHASES.

Phase 1 – INSTALL EROSION CONTROL SILT FENCE & STONE CONSTRUCTION ENTRANCE. CLEAR & GRUB SITE, INSTALL DRAINAGE & UTILITIES. CONSTRUCT PROPOSED ROADWAY.

Phase 2 & 3 – CONSTRUCT INDIVIDUAL UNITS. STABILIZE TRIBUTARY AREAS, INSTALL DRIVEWAYS. PHASES 2 & 3 MAY BE CONSTRUCTED INDEPENDENT OF ONE ANOTHER BASED UPON MARKET CONDITIONS AND THE APPLICANTS PLANNING. INDIVIDUAL SOIL EROSION & SEDIMENT CONTROL PLANS SHALL BE PREPARED FOR THE TOWN PRIOR TO LOT CONSTRUCTION.

Grading & Utilities Legend:

- EX MAJOR FOOT CONTOUR — 160
- EX MINOR FOOT CONTOUR — 158
- PR FOOT CONTOUR — 310
- DRAIN LINE
- SEWER LINE — S — S
- ROOF LEADER — RL — RL
- CATCH BASIN
- MANHOLE
- UNDERGROUND INFILTRATION BASIN OUTLINE
- DRYWELL
- WATER LINE — W — W — X" WATER LINE
- WATER VALVE
- THRUST BLOCK
- HYDRANT
- WATER SHUT OFF

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DAVID A. RUSSO
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Environmental Management
AUG 5 2016
Office of Water Resources

No.	Date	Description	By:
3	8/4/2016	RIDEM Wetlands Resubmission	MSC
2	6/24/2016	RIDEM Wetlands Resubmission	MSC
1	3/30/2016	RIDEM Wetland Submission	DRK

Drawn By: DAR

Soil Erosion & Sediment Control Plan
Wilson & Tarn Street Development
Assessor's Plat 57-1, Lots 121, 122 & 146
South Kingstown, Rhode Island
Applicant
South County Post & Beam Inc.
521 Liberty Lane
West Kingston, RI 02892 Tel (401) 783-4435

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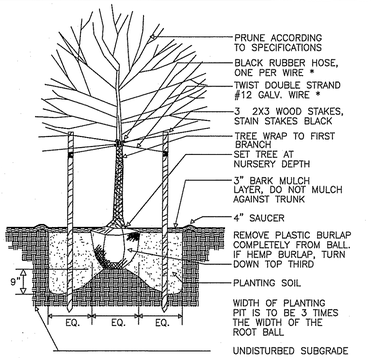
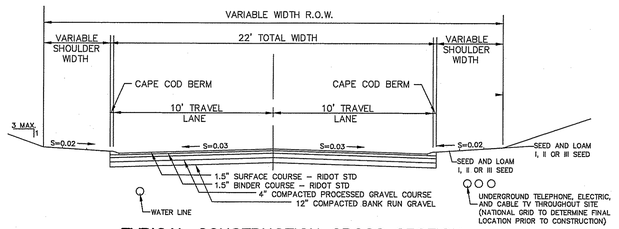


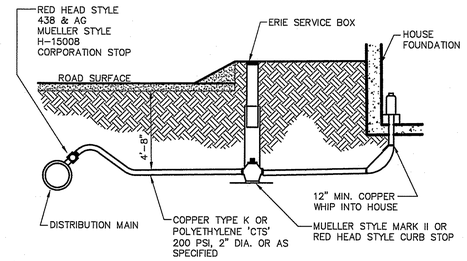
TREE PLANTING DETAIL* TO BE REMOVED WITHIN ONE YEAR

NOTE:
UNDERGROUND UTILITY TRENCH CONSTRUCTION TO CONFORM TO ALL APPLICABLE STANDARDS DETERMINED BY THE TOWN AND NATIONAL GRID PRIOR TO COMMENCING CONSTRUCTION. CONTRACTOR TO NOTIFY DIG SAFE PRIOR TO EXCAVATION.



TYPICAL CONSTRUCTION CROSS SECTION

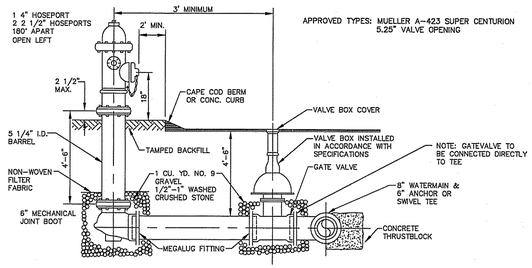
NOT TO SCALE



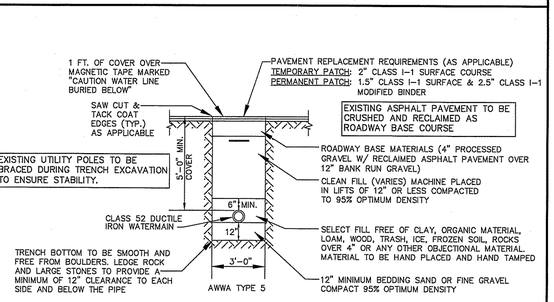
TYPICAL 2" OR SMALLER WATER SERVICE N.T.S.

WATER DETAILS

1. ALL WORK AND MATERIAL OF WATER LINE SHALL BE IN ACCORDANCE WITH RULES AND REGULATIONS SET FORTH BY UNITED WATER RHODE ISLAND. INSTALLATION PROCEDURES AND MATERIALS TO CONFORM TO UNITED WATER R.I., AWWA SPECIFICATIONS AND ART. III OF THE SOUTH KINGSTOWN TOWN ORDINANCES. A PRECONSTRUCTION MEETING SHALL BE HELD PRIOR TO ORDER OF MATERIALS AND WATER MAIN INSTALLATION.
2. WATER MAIN INSTALLATION SHALL BE INSPECTED BY UNITED WATER R.I. PRIOR TO BACKFILLING THE TRENCH.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING UNITED WATER R.I. FIVE (5) DAYS PRIOR TO START OF CONSTRUCTION.
4. CHLORINATION OF SYSTEM AND SAMPLING SHALL CONFORM TO AWWA REQUIREMENTS FOR SERVICE AND MAIN INSTALLATIONS.
5. THE CONTRACTOR SHALL NOTIFY THE DIRECTOR OF WATER SUPPLY AT LEAST TWO WORKING DAYS IN ADVANCE FOR FINAL INSPECTION.
6. WHENEVER, IN THESE SPECIFICATIONS, REFERENCE IS MADE TO THE REQUIREMENTS OF AWWA, ANSI, ASTM OR ANY OTHER STANDARD SPECIFICATION, THE REFERENCE IS MADE TO THE LATEST REVISIONS OR MODIFICATIONS OF SUCH REQUIREMENTS AND SPECIFICATIONS.
7. ALL PIPE, FITTINGS, AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH AWWA AND ANSI STANDARDS AND THE MANUFACTURER'S SUGGESTED RECOMMENDATIONS FOR INSTALLATIONS.
8. PIPELINES SHALL BE CONSTRUCTED IN DRY TRENCHES AND LAID TO THE LINE GRADE. WHENEVER PIPE IS TO BE INSTALLED IN SATURATED SOIL CONDITIONS A BEDDING OF PROCESSED GRANULAR FILTER MATERIAL SHALL BE PROVIDED.
9. ALL BENDS, CROSSES, TEES, END CAPS AND PLUGS, VALVES AND ANY OTHER APPURTENANCES SHALL BE RESTRAINED WITH THRUST BLOCKS, STRAPPING OR ANCHORS.
10. JOINTING OF MECHANICAL AND PUSH ON TYPE JOINTS SHALL BE PERFORMED IN STRICT ACCORDANCE WITH AWWA STANDARD C-800, UNITED WATER, RI AND SOUTH KINGSTOWN SPECIFICATIONS. RUBBER GASKETS AND RINGS SHALL BE SUITABLE FOR USE WITH POTABLE WATER AND THOROUGHLY CLEANED TO REMOVE OIL, GRIT, AND OTHER FOREIGN MATTER PROIR TO ASSEMBLY. THE GASKETS SHALL BE INSPECTED BY THE DIRECTOR OF WATER SUPPLY OR HIS AGENT TO INSURE THAT THEY ARE ACCEPTABLE.
11. ALL FITTINGS USED FOR SERVICE CONNECTIONS SHALL BE IN ACCORDANCE WITH AWWA C-800, UNITED WATER, R.I., AND SOUTH KINGSTOWN SPECIFICATIONS.
12. VALVES USED SHALL BE IN ACCORDANCE WITH AWWA C-500 SERIES, UNITED WATER, R.I., AND THE TOWN OF SOUTH KINGSTOWN REGULATIONS. VALVES SHALL BE MECHANICAL JOINT, DOUBLE DISC PARALLEL SEAT OR RESILLENT SEAT GATE STYLES AS FOLLOWS:
    a. MUELLER CORPORATION STOP DOUBLE DISC PARALLEL SEAT.
    b. AMERICAN DARLING VALVE RESILENT MODEL CRS-80.
13. BLOW-OFF ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH AWWA C-800 SERIES, UNITED WATER, R.I., AND THE TOWN OF SOUTH KINGSTOWN.
14. FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH MUELLER A421, AWWA C-502 "DRY BARREL FIRE HYDRANTS" , UNITED WATER, R.I., AND TOWN SPECIFICATIONS.
15. HYDROSTATIC AND LEAKAGE TESTS SHALL BE PERFORMED ON ALL COMPLETED SECTIONS OF NEWLY INSTALLED PIPELINE IN ACCORDANCE WITH AWWA C-600, UNITED WATER, R.I. AND TOWN SPECIFICATIONS.
16. ALL PIPE SHALL BE DISINFECTED PRIOR TO BEING ACTIVATED IN ACCORDANCE WITH AWWA B-300, AWWA C-601, UNITED WATER, R.I., AND TOWN SPECIFICATIONS.
17. DISTRIBUTION PIPING SHALL BE CL 52 DUCTILE IRON, DOUBLE CEMENT LINED, WITH PUSH ON JOINTS. PIPE SHALL MEET ANSI/AWWA C151 A21.51. JOINTS SHALL MEET ANSI/AWWA /C111/A21.11. AMERICAN MANUFACTURER ONLY.
18. FITTINGS SHALL BE DUCTILE IRON MECHANICAL JOINT CL350 CEMENT MORTAR LINED AND MEET ANSI/AWWA/C153/A21.53. MECHANICAL JOINTS SHALL MEET ANSI/AWWA/C111/A21.11 AMERICAN MANUFACTURER ONLY.
19. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL STATE AND TOWN PERMITS PRIOR TO CONSTRUCTION.
20. THE CONTRACTOR IS RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS RELATED TO INSTALLATION OF THE WATER MAIN.
21. EXCAVATIONS THAT EXTEND INTO PUBLIC RIGHT -OF-WAY SHALL BE BACKFILLED AND COMPACTED IN 12" LIFTS. A TEMPORARY SURFACE COURSE IS TO BE APPLIED. FINAL BINDER AND FINISH COURSE TO BE PLACED AFTER REMOVAL OF TEMPORARY PAVEMENT AND COMPACTION OF GRAVEL BASE. CONTRACTOR SHALL MAKE ROAD PASSABLE FOR ONE LANE OF TRAFFIC AT ALL TIMES.
22. CONTRACTOR SHALL NOTIFY DIG SAFE PRIOR TO DIGGING ANY TRENCHES OR EXCAVATIONS.
23. WHEN WORK IS NOT IN PROGRESS AND AT THE END OF EACH DAY, ALL OPEN ENDS OF THE PIPE AND FITTINGS SHALL BE SECURELY CAPPED.
24. DIPRETE ENGINEERING DOES NOT CERTIFY AVAILABLE WATER FLOW RATE OR RESIDUAL PRESSURE OF THIS WATER MAIN.

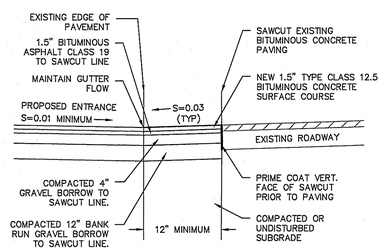


AWWA C502 DRY BARREL FIRE HYDRANT N.T.S.



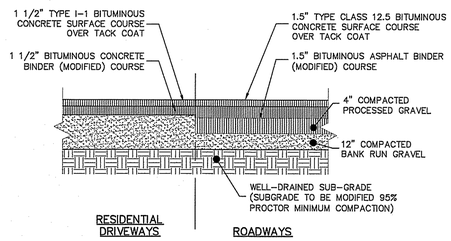
WATER TRENCH DETAIL N.T.S.

NOTE:
MINIMUM COMPACTION FOR GRAVEL SUBBASE OR SUBGRADE: 95% MODIFIED PROCTOR.



Entrance Access Sawcut & Match

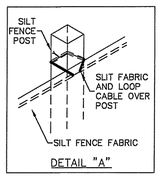
NOTE:
THIS PAVEMENT SECTION DETAIL REFLECTS MINIMUM REQUIREMENTS. ENGINEER TO DETERMINE DESIGN BASED ON GEO-TECHNICAL DATA OF SPECIFIC PROJECT AND DAILY TRAFFIC DESIGN REQUIREMENT.

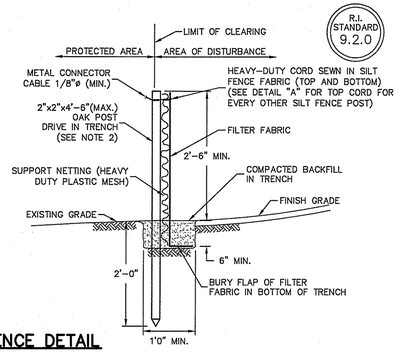


TYPICAL PAVEMENT SECTION

NOT TO SCALE

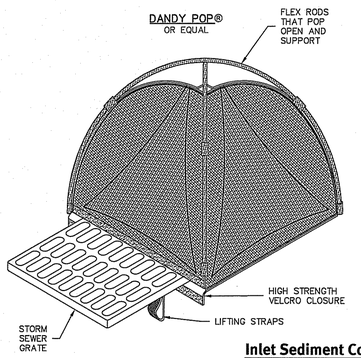
NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE R.I. STANDARD SPECIFICATIONS.
2. 2"x2"x4'-6"(MAX.) OAK POSTS FOR SILT FENCE SHALL BE LOCATED 8'-0" (MAX.) O.C. IN WETLAND AREAS AND 4'-0" (MAX.) O.C. IN WETLAND RAVINE, GULLY OR DROP-OFF AREAS AS SHOWN ON PLANS.
3. 1"x1"x4'-6"(MIN.) POSTS PERMITTED FOR PRE-FABRICATED SILT FENCE.
4. SILT FENCE SHALL BE INSTALLED BEFORE ANY GRUBBING OR EARTH EXCAVATION TAKES PLACE.

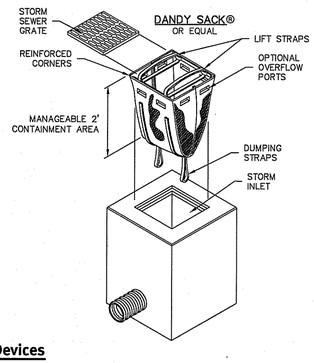




SILT FENCE DETAIL

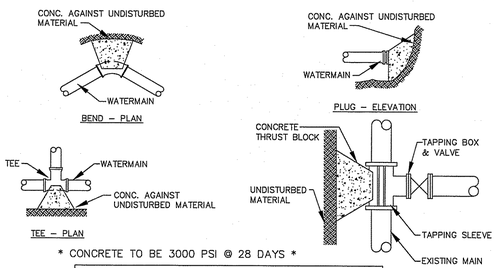
NOT TO SCALE





Inlet Sediment Control Devices

NOT TO SCALE



* CONCRETE TO BE 3000 PSI @ 28 DAYS *

THRUST BLOCK SCHEDULE BEARING AREA		
PIPE SIZE	45° BEND OR LESS	TEE & DEAD END
8"	2.5' x 2.5'	3.0' x 3.0'
12"	3.0' x 3.0'	3.5' x 3.5'

THRUST BLOCK DETAILS N.T.S.

LEAKAGE AND PRESSURE TESTING FOR WATERMAINS

GENERAL
HYDROSTATIC AND LEAKAGE TESTS SHALL BE PERFORMED ON ALL COMPLETED SECTIONS OF NEWLY INSTALLED WATERMAIN PIPELINE IN
1. ACCORDANCE WITH AWWA C600, THE TOWN OF SOUTH KINGSTOWN, AND AS SPECIFIED BELOW.

THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL LABOR, TOOLS AND EQUIPMENT NECESSARY FOR TESTING.

TESTING PROCEDURES:
ALL AIR SHALL BE EXPELLED AT THE HIGH POINTS AND THE PIPELINE SLOWLY
2. FILLED WITH POTABLE WATER.

THE INTERNAL PRESSURE SHALL BE BUILT UP TO 150 PSI AND MAINTAINED FOR A PERIOD OF NOT LESS THAN ONE (1) HOUR.

ALL LEAKS IN THE PIPELINE SHALL BE STOPPED; CRACKED OR DEFECTIVE PIPE, FITTINGS OR ACCESSORIES SHALL BE REMOVED AND REPLACED WITH NEW BY THE CONTRACTOR.

THE PIPELINE SHALL BE RETESTED AS MAY BE REQUIRED AND NECESSARY UNTIL THE LEAKAGE FALLS WITHIN THE ALLOWABLE DETERMINED FOR THE PIPE NETWORK, AT WHICH TIME THE PIPELINE MAY BE CONSIDERED READY FOR:
a. WATERMAINS - DISINFECTION STEP

ALL STORM WATER, DRAINAGE AND SANITARY SEWER SHOP DRAWINGS SHALL BE SUBMITTED TO SOUTH KINGSTOWN PUBLIC SERVICES DEPARTMENT FOR APPROVAL PRIOR TO INSTALLATION AND ALL SHOP DRAWINGS RELATIVE TO THE WATER DISTRIBUTION SYSTEM SHALL REQUIRE UNITED WATER APPROVAL PRIOR TO INSTALLATION.

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DAVID A. RUSSO
No. 14355
REGISTERED PROFESSIONAL ENGINEER
CIVIL

Environmental Management
AUG 5 2016
Office of Water Resources

No.	Date	Description	By:
0	2/10/2016	RIDEM Wetland Submission	DMK
1	6/23/2016	RIDEM Wetlands Resubmission	MSC
2	8/4/2016	RIDEM Wetland Submission	MSC

Drawn By: DMK

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED SEP 8 2016 FILE # 16-0025
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Detail Sheet - Water
Wilson & Tarn Street Development
Assessor's Plat 57-1, Lots 121, 122 & 146
South Kingstown, Rhode Island
Applicant
South County Post & Beam Inc.
521 Liberty Lane
West Kingston, RI 02892
Tel (401) 783-4415

SHEET 8 OF 11

DE Job No: 2214-001 Copyright 2016 by DiPrete Engineering Associates, Inc.

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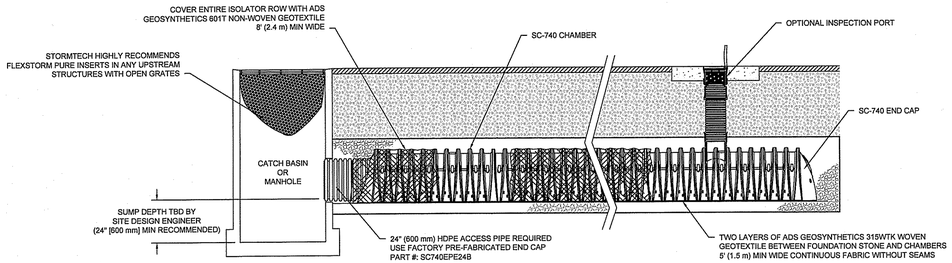


SC-740 ISOLATOR ROW DETAIL
NTS

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
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

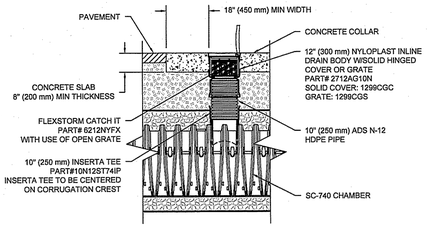
STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

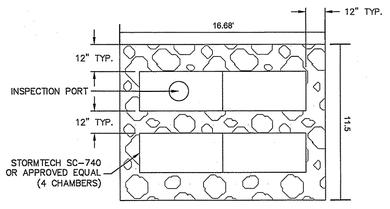
STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

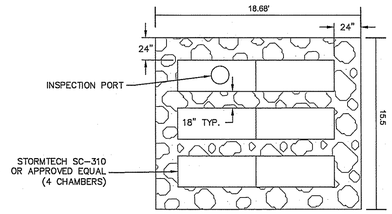
1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



SC-740 INSPECTION PORT DETAIL
NTS



LOTS 1-6 DRYWELL DETAIL (PLAN)
NOT TO SCALE

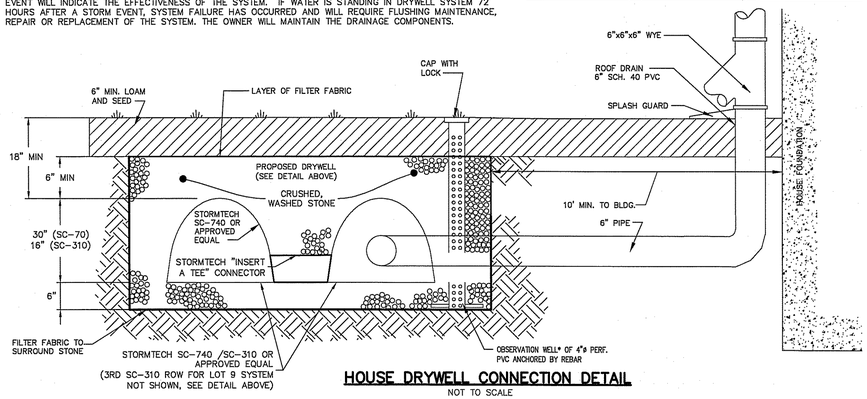


LOTS 9 DRYWELL DETAIL (PLAN)
NOT TO SCALE

CONSTRUCTION, MAINTENANCE, & INSPECTION NOTES:

1. ROOF LEADERS ARE TO TIE INTO PROPOSED DRYWELLS.
2. DRYWELL AREA TO BE STAKED, MARKED, AND REMAIN UNDISTURBED PRIOR TO CONSTRUCTION. THERE IS TO BE NO CONSTRUCTION TRAFFIC ON DESIGNATED AREA PRIOR TO CONSTRUCTION.
3. PLACE FILTER FABRIC ALONG THE BOTTOM AND SIDES OF TRENCH AND FILL WITH CRUSHED, WASHED STONE.
4. OVERLAP FILTER FABRIC ON THE TOP OF THE FILTER STONE. BACK FILL WITH CLEAN FILL TO FINISH GRADE.
5. (*) MONITORING WATER LEVELS WITHIN THE INSPECTION PORT AT VARIOUS TIME INTERVALS AFTER A RAINFALL EVENT WILL INDICATE THE EFFECTIVENESS OF THE SYSTEM. IF WATER IS STANDING IN DRYWELL SYSTEM 72 HOURS AFTER A STORM EVENT, SYSTEM FAILURE HAS OCCURRED AND WILL REQUIRE FLUSHING MAINTENANCE, REPAIR OR REPLACEMENT OF THE SYSTEM. THE OWNER WILL MAINTAIN THE DRAINAGE COMPONENTS.

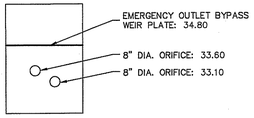
Lot Number	Cover Elevation	Drywell Top of Stone Elevation	Drywell Bottom of Stone Elevation	Groundwater Elevation
1	38.0	36.5	33.0	29.0
2	41.0	39.5	36.0	28.0
3	40.9	39.0	35.5	30.0
4	40.0	38.5	35.0	26.0
5	39.9	38.0	34.5	30.0
6	39.5	38.5	35.0	31.0
9	40.3	39.3	37.0	33.0

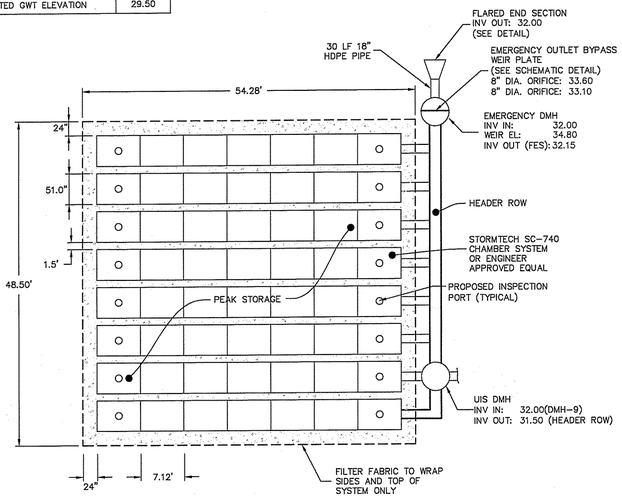


HOUSE DRYWELL CONNECTION DETAIL
NOT TO SCALE

DESCRIPTION	UIS-SOUTH
TOP OF SYSTEM	35.00
BOTTOM OF SYSTEM	31.50
100 YEAR STORM ELEVATION	34.99
25 YEAR STORM ELEVATION	33.80
10 YEAR STORM ELEVATION	33.17
1 YEAR STORM ELEVATION	31.58
ESTIMATED GWT ELEVATION	29.50

NOTES:
1. THE UNDERGROUND INFILTRATION SYSTEM SHOWN IS ONLY FOR SCHEMATIC PURPOSES. THE FINAL UNDERGROUND SYSTEM SHALL BE DESIGNED BY THE MANUFACTURER. SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED TO THE DESIGN ENGINEER PRIOR TO CONSTRUCTION FOR REVIEW AND APPROVAL. SYSTEM CAN BE SUBSTITUTED WITH ENGINEERED EQUAL AND APPROVAL FROM DESIGN ENGINEER.

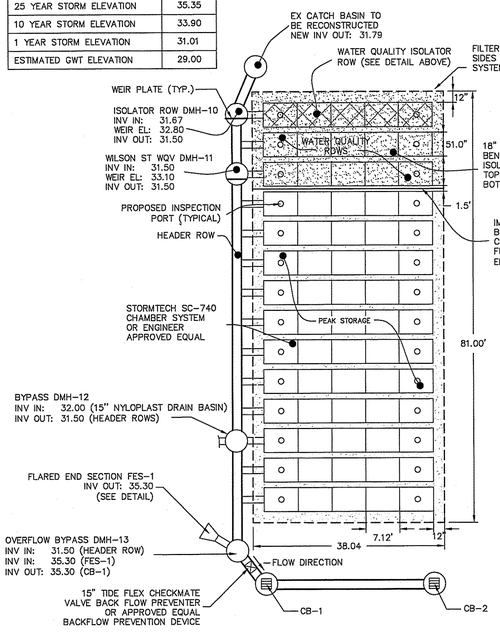




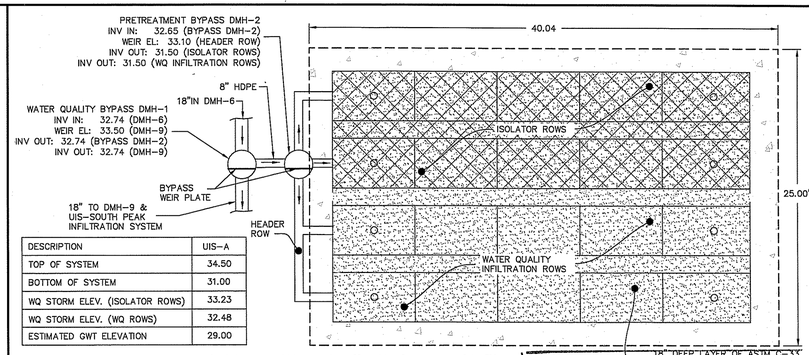
Storm Tech SC-740 - Underground Infiltration Chamber System (UIS-SOUTH) Schematic Plan View
NOT TO SCALE

DESCRIPTION	UIS-NORTH
TOP OF SYSTEM	34.50
BOTTOM OF SYSTEM	31.00
100 YEAR STORM ELEVATION	35.72
25 YEAR STORM ELEVATION	35.35
10 YEAR STORM ELEVATION	33.90
1 YEAR STORM ELEVATION	31.01
ESTIMATED GWT ELEVATION	29.00

NOTES:
1. THE UNDERGROUND INFILTRATION SYSTEM SHOWN IS ONLY FOR SCHEMATIC PURPOSES. THE FINAL UNDERGROUND SYSTEM SHALL BE DESIGNED BY THE MANUFACTURER. SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED TO THE DESIGN ENGINEER PRIOR TO CONSTRUCTION FOR REVIEW AND APPROVAL. SYSTEM CAN BE SUBSTITUTED WITH ENGINEERED EQUAL AND APPROVAL FROM DESIGN ENGINEER.



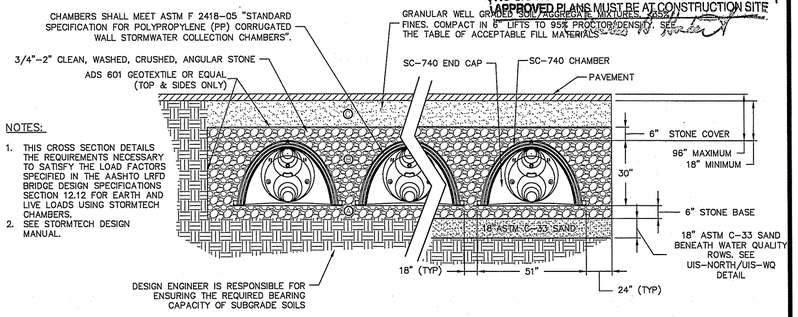
Storm Tech SC-740 - Underground Infiltration Chamber System (UIS-NORTH) Schematic Plan View
NOT TO SCALE



DESCRIPTION	UIS-A
TOP OF SYSTEM	34.50
BOTTOM OF SYSTEM	31.00
WQ STORM ELEV. (ISOLATOR ROWS)	33.23
WQ STORM ELEV. (WQ ROWS)	32.48
ESTIMATED GWT ELEVATION	29.00

Storm Tech SC-740 - Water Quality Underground Infiltration (UIS-WQ) Chamber System Schematic Plan View
NOT TO SCALE

RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WASTEWATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED SEP 8 2016 FILE # 160025
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



NOTES:
1. THIS CROSS SECTION DETAILS THE REQUIREMENTS NECESSARY TO SATISFY THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12.12 FOR EARTH AND LIVE LOADS USING STORMTECH CHAMBERS.
2. SEE STORMTECH DESIGN MANUAL.

Stormtech SC-740 Typical Cross Section
NOT TO SCALE

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DAVID A. RUSSO
No. 13355
REGISTERED PROFESSIONAL ENGINEER CIVIL

Environmental Management
AUG 5 2016
Office of Water Resources

No.	Date	Description	By:
2	8/5/2016	RIDEM Wetlands Re-Submission	MSC
1	6/21/2016	RIDEM Wetlands Re-Submission	MSC
0	2/10/2016	RIDEM Wetland Submission	DBH

Drawn By: DAR

Detail Sheet - Drainage -1

Wilson & Tarn Street Development
Assessor's Plat 57-1, Lots 121, 122 & 146
South Kingstown, Rhode Island

Applicant
South County Post & Beam Inc.
521 Liberty Lane
West Kingston, RI 02892 Tel (401) 783-4415

DE Job No: 2214-001 Copyright 2016 by DiPrete Engineering Associates, Inc.

SHEET 9 OF 11

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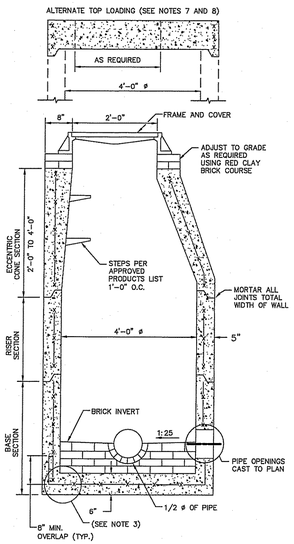
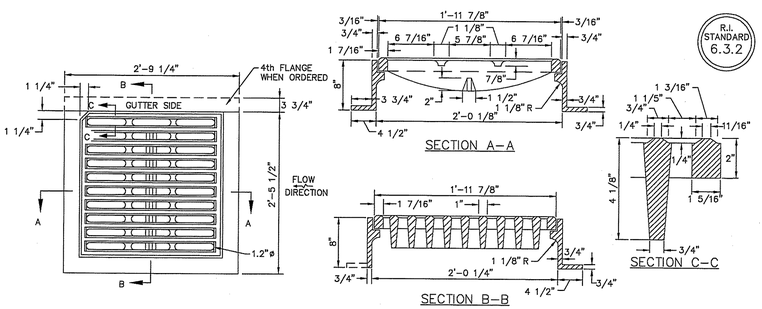


NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
2. CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED = 0.12 SQ. IN. / LIN. FT. MINIMUM.
3. STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN./LIN. FT. (BOTH WAYS).
4. ONE POUR MONOLITHIC BASE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

PRECAST 4'–0" ROUND MANHOLE
NOT TO SCALE

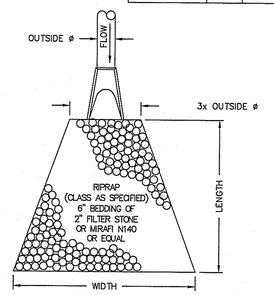
R.I. STANDARD 4.2.0



R.I. STANDARD 6.3.2

SQUARE FRAME AND GRATE (BICYCLE SAFE)
NOT TO SCALE

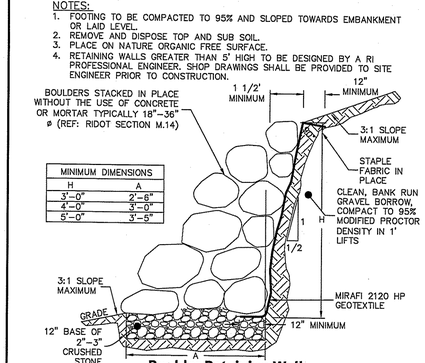
FLARED END	LENGTH	WIDTH	CLASS
18" UIS–SOUTH OUTLET	14	11	R–2



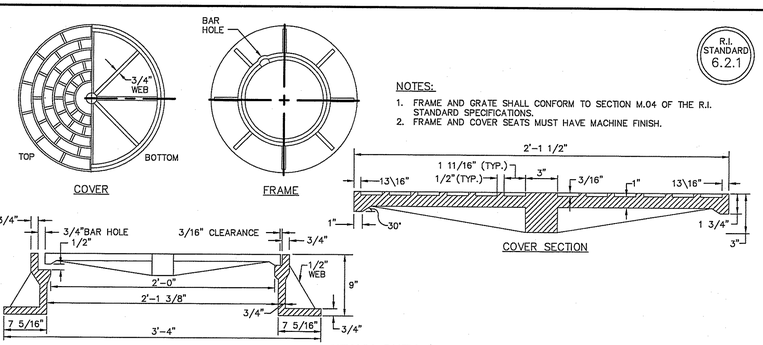
Riprap Apron/ FE Detail
NOT TO SCALE

NOTES:
1. FOOTING TO BE COMPACTED TO 95% AND SLOPED TOWARDS EMBANKMENT OR LAID LEVEL.
2. REMOVE AND DISPOSE TOP AND SUB SOIL.
3. PLACE ON NATURE ORGANIC FREE SURFACE.
4. RETAINING WALLS GREATER THAN 5' HIGH TO BE DESIGNED BY A RI PROFESSIONAL ENGINEER. SHOP DRAWINGS SHALL BE PROVIDED TO SITE ENGINEER PRIOR TO CONSTRUCTION.

MINIMUM DIMENSIONS	
H	A
3'–0"	2'–6"
4'–0"	3'–0"
5'–0"	3'–5"



Boulder Retaining Wall
NOT TO SCALE

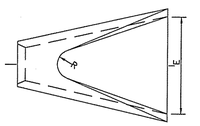


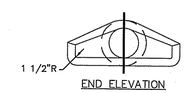
R.I. STANDARD 6.2.1

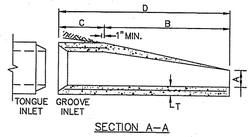
NOTES:
1. FRAME AND GRATE SHALL CONFORM TO SECTION M.04 OF THE R.I. STANDARD SPECIFICATIONS.
2. FRAME AND COVER SEATS MUST HAVE MACHINE FINISH.

HEAVY–DUTY ROUND FRAME AND COVER
NOT TO SCALE

DIMENSIONS								REINFORCEMENT
DIA.	A	B	C	D	E	R	T	ONE LAYER REINFORCEMENT IN CENTER OF WALL MIN. AREA OF EACH WAY (SQ. IN./FT.)
1'–0"	4"	2'–0"	4'–0 7/8"	6'–0 7/8"	2'–0"	9"	2"	0.048
1'–3"	6"	2'–3"	3'–10"	6'–1"	2'–6"	11"	2 1/4"	0.054
1'–6"	9"	2'–3"	3'–10"	6'–1"	3'–0"	12"	2 1/2"	0.060
2'–0" 9 1/2"	3'–7 1/2"	2'–6"	6'–1 1/2"	4'–0"	1'–2"	3"		0.072
2'–6"	1'–0"	4'–6"	1'–7 3/4"	6'–1 3/4"	5'–0"	1'–3"	3 1/2"	0.084
3'–0"	1'–3"	5'–3"	2'–10 3/4"	8'–1 3/4"	6'–0"	1'–8"	4"	0.096
3'–6"	1'–9"	5'–3"	2'–11"	8'–2"	6'–6"	1'–10"	4 1/2"	0.108
4'–0"	2'–0"	6'–0"	2'–2"	8'–2"	7'–0"	1'–10"	5"	0.120
4'–6"	2'–3"	5'–6"	2'–11"	8'–4"	7'–6"	2'–0"	5 1/2"	0.132
5'–0"	2'–6"	5'–0"	3'–3"	8'–3"	8'–0"	2'–0"	6"	0.144

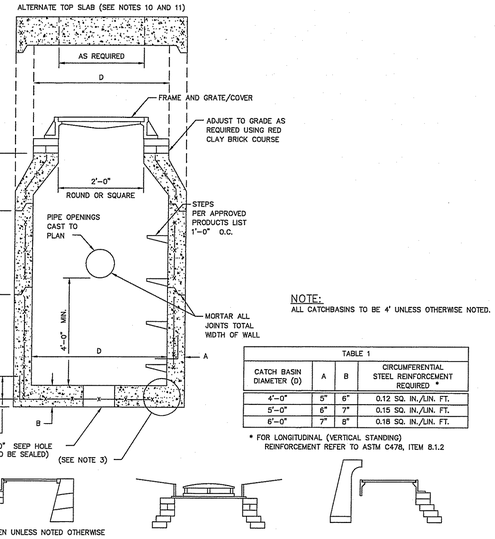






R.I. STANDARD 2.3.0

PRECAST CONCRETE FLARED END SECTION
NOT TO SCALE



NOTE:
ALL CATCHBASINS TO BE 4' UNLESS OTHERWISE NOTED.

TABLE 1			
CATCH BASIN DIAMETER (D)	A	B	CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED *
4'–0"	5"	6"	0.12 SQ. IN./LIN. FT.
5'–0"	6"	7"	0.15 SQ. IN./LIN. FT.
6'–0"	7"	8"	0.18 SQ. IN./LIN. FT.

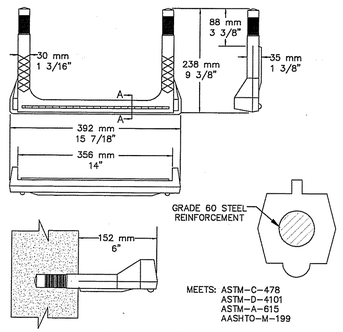
* FOR LONGITUDINAL (VERTICAL STANDING) REINFORCEMENT REFER TO ASTM C478, ITEM 8.1.2

TYPE CATCH BASIN AS REQUIRED

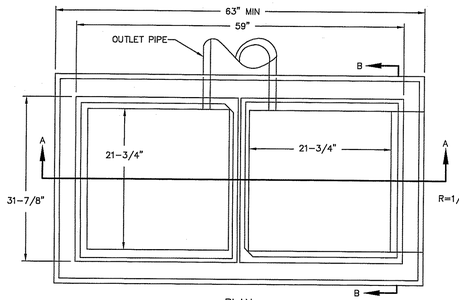
NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
2. SEE TABLE 1 FOR STEEL REINFORCEMENT REQUIREMENTS.
3. STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN./LIN. FT. (BOTH WAYS).
4. STEPS SHALL CONFORM TO STD. 5.3.0 AND SHALL BE INSTALLED AT THE CASTING PLANT.
5. ONE POUR MONOLITHIC BASE SECTION.
6. ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAW–CUTTING AND/OR CORING ONLY. NO JACKHAMMERS, HAMMERS AND CHISELS OR PNEUMATIC TOOLS WILL BE ALLOWED.
7. CORBEL MADE OF RED CLAY BRICK WILL BE PERMITTED FOR THE "CONE SECTION" OF THE 4'–0" CATCH BASIN ONLY.
8. FOR CATCH BASIN TYPES "D" AND "F" STEPS MUST BE INSTALLED ON THE CURB SIDE OF THE STRUCTURE.
9. THE CENTERLINE OF THE OPENING MUST BE WITHIN 2'–0" FROM THE STEPS.
10. ALTERNATE TOP SLAB IS STEEL REINFORCED TO MEET OR EXCEED H–25 LOADING (SEE STD. 4.7.2).
11. ALTERNATE TOP SLAB IS ONLY FOR USE WHEN REDUCING SECTION DOES NOT FIT BECAUSE OF STRUCTURE DEPTH.
12. REFER TO STD. 5.2.0 FOR MAXIMUM PIPE SIZES.

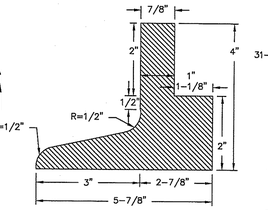
PRECAST 4'–0", 5'–0", OR 6'–0" ROUND CATCH BASIN
NOT TO SCALE

R.I. STANDARD 4.4.0

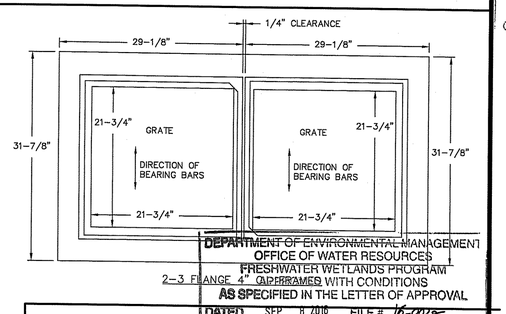


MANHOLE STEP
NOT TO SCALE

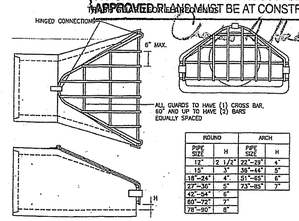




DOUBLE CATCHBASIN GRATE
NOT TO SCALE



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED SEP 8 2016 FILE # 16-0025
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



ROUND		ARCH	
PIPE SIZE	H	PIPE SIZE	H
12"	2 1/2"	22"–29"	4"
15"	3"	30"–14"	5"
18"–24"	4"	31"–45"	6"
27"–30"	5"	733"–85"	7"
42"–54"	6"		
60"–72"	7"		
78"–90"	8"		

BAR SIZES									
	STANDARD DESIGN					HEAVY DESIGN			
	PIPE SIZE	HOLE DIA. REQ'D.	BOLT DIA.	BAR SIZE		PIPE SIZE	HOLE DIA. REQ'D.	BOLT DIA.	BAR SIZE
ROUND	12"–24"	3/4"	5/8"	5/8"	ROUND	12"–24"	3/4"	5/8"	3/4"
	27"–48"	7/8"	3/4"	3/4"		27"–48"	7/8"	3/4"	1"
	54"–90"	1 1/8"	1"	1"		54"–90"	1 1/8"	1"	1 1/4"
ARCH	22"–29"	3/4"	5/8"	3/4"	ARCH	22"–29"	3/4"	5/8"	3/4"
	30"–59"	7/8"	3/4"	1"		30"–59"	7/8"	3/4"	1"
	65"–88"	1 1/8"	1"	1"		65"–88"	1 1/8"	1"	1 1/4"
BOLT LG. = PIPEWALL THK. + 2 1/2"					ELLIPTICAL	19x25"	3/8"	5/8"	3/4"
						19x30"	3/4"	5/8"	3/4"
						24x33"	7/8"	3/4"	3/4"
						28x45"	7/8"	3/4"	3/4"
						34x53"	7/8"	3/4"	3/4"
						38x60"	7/8"	3/4"	3/4"
						43x68"	1 1/8"	1"	1"
						68x105"	1 1/8"	1"	1"
						53x83"	1 1/8"	1"	1"

HAALA INDUSTRIES
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Sleepy Eye, MN 56085
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scott@haala.com
www.haala.com

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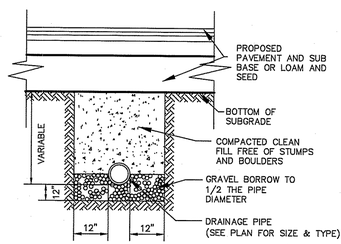
TRASH GUARD FOR FLARED ENDS
NOT TO SCALE

DRAINAGE TRENCH DETAIL
NOT TO SCALE



NOTE:
DRAINAGE PIPE TO BE RCP CLASS III UNLESS OTHERWISE NOTED

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No. 14,345
REGISTERED PROFESSIONAL ENGINEER
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Environmental Management
AUG 5 2016
Office of Water Resources

No.	Date	Description	By
1	5/23/2016	RIDEM Wetlands Re-Submission	MSC
2	8/4/2016	RIDEM Wetlands Re-Submission	MSC

Drawn By: DAR

Detail Sheet - Drainage - 2
Wilson & Tarn Street Development
Assessor's Plat 57–1, Lots 121, 122 & 146
South Kingstown, Rhode Island

Applicant
South County Post & Beam Inc.
521 Liberty Lane
West Kingston, RI 02892 Tel (401) 783-4435

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SHEET 10 OF 11

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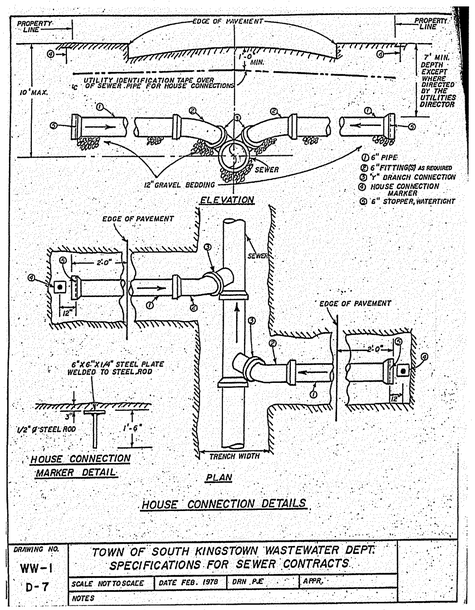
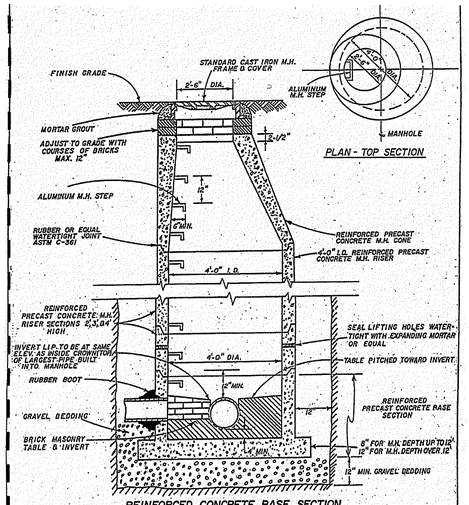


DRAWING NO.	TOWN OF SOUTH KINGSTOWN WASTEWATER DEPT. SPECIFICATIONS FOR SEWER CONTRACTS			
WW-1 D-7	SCALE NOT TO SCALE	DATE FEB. 1978	DRN PJE	APPR.
	NOTES			



DRAWING NO.	TOWN OF SOUTH KINGSTOWN WASTEWATER DEPT. SPECIFICATIONS FOR SEWER CONTRACTS			
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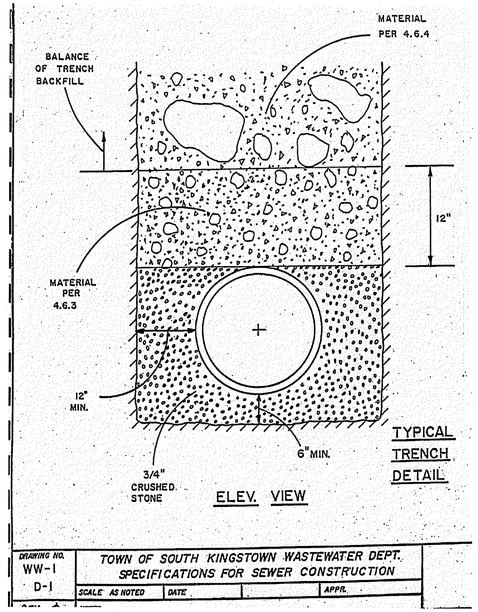
	NOTES:			



DRAWING NO.	TOWN OF SOUTH KINGSTOWN WASTEWATER DEPT. SPECIFICATIONS FOR SEWER CONSTRUCTION			
WW-1 D-1	SCALE AS NOTED	DATE		APPR.

Sewer Line/Water Main Separation Policy For Design Of Sanitary Sewers

A. LATERAL PLACEMENT OF SEWERS AND WATER MAINS

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

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

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

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

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

B. SEWERS CROSSING WATER MAINS

SEWERS CROSSING OVER WATER MAINS SHOULD BE AVOIDED, BUT IF CONDITIONS WARRANT THIS SITUATION, THEN ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO MAINTAIN LINE AND GRADE. SEWERS CROSSING UNDER WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL SEPARATION OF 18" BETWEEN THE INVERT OF THE WATER MAIN AND THE CROWN OF THE SEWER. THE CROSSING SHALL BE ARRANGED SO THAT SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS.

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

A. THE SEWER SHALL BE DESIGNED AND CONSTRUCTED EQUAL TO WATER MAIN PIPE (CEMENT-LINED DUCTILE IRON PIPE, PVC OR OTHER AWWA APPROVED MATERIAL FOR POTABLE WATER CONVEYANCE) FOR A DISTANCE OF 12' ON EACH SIDE OF THE CROSSING, MEASURED PERPENDICULAR TO THE WATER MAIN AND PRESSURE TESTED IN ACCORDANCE WITH AWWA SPECIFICATIONS, OR

B. EITHER THE WATER MAIN OR THE SEWER MAY BE ENCASED IN CONCRETE (MINIMUM 6" THICKNESS) OR A CARRIER PIPE FOR A DISTANCE OF 12' ON EACH SIDE OF THE CROSSING, MEASURED PERPENDICULAR TO THE WATER MAIN. THE CARRIER PIPE SHALL BE DESIGNED AND CONSTRUCTED OF MATERIALS WHICH ARE SATISFACTORY TO THE DIVISION, OR

C. ANY OTHER METHODS, IF SUPPORTED BY DATA FROM THE DESIGN ENGINEER, WHICH ENSURE ADEQUATE WATER TIGHTNESS AND ARE SATISFACTORY TO THE DIVISION.

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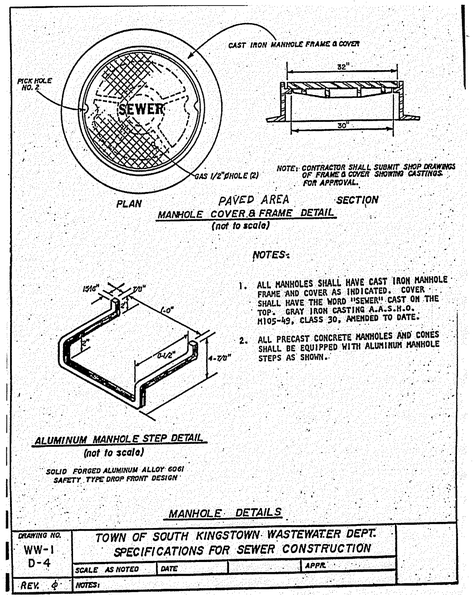
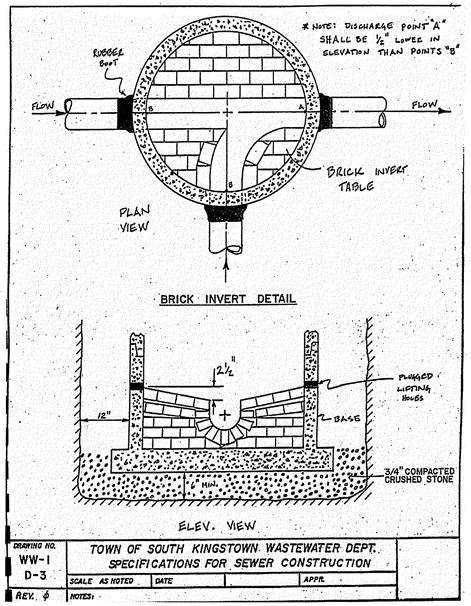
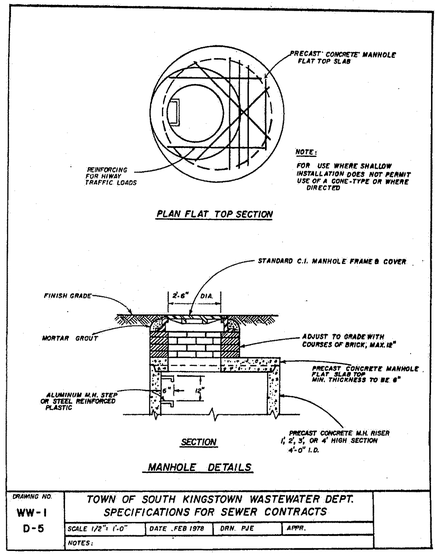
Environmental Management
AUG 5 2016
Office of Water Resources



DRAWING NO.	TOWN OF SOUTH KINGSTOWN WASTEWATER DEPT. SPECIFICATIONS FOR SEWER CONSTRUCTION			
WW-1 D-4	SCALE AS NOTED	DATE		APPR.
REV. 4	NOTES:			

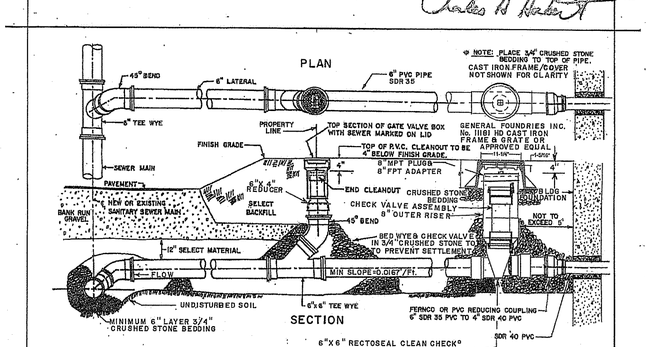


DRAWING NO.	TOWN OF SOUTH KINGSTOWN WASTEWATER DEPT. SPECIFICATIONS FOR SEWER CONSTRUCTION			
WW-1 D-3	SCALE AS NOTED	DATE		APPR.
REV. 4	NOTES:			



DRAWING NO.	TOWN OF SOUTH KINGSTOWN WASTEWATER DEPT. SPECIFICATIONS FOR SEWER CONTRACTS			
WW-1 D-5	SCALE 1/2" = 1'-0"	DATE FEB 1978	DRN PJE	APPR.
	NOTES:			

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED SEP 8 2016 FILE # 16-0024
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Charles A. Horbert



DRAWING No.	TOWN OF SOUTH KINGSTOWN, RHODE ISLAND WASTEWATER DIVISION STANDARD HOUSE CONNECTION DETAIL				WW-1 D-2
	SCALE N/T/S	DATE 04/13	DRN PJE	APPR	
REV. 1	DEPT. PUBLIC SERVICES	NOTES:	8-7-19		

ALL STORM WATER, DRAINAGE AND SANITARY SEWER SHOP DRAWINGS SHALL BE SUBMITTED TO SOUTH KINGSTOWN PUBLIC SERVICES DEPARTMENT FOR APPROVAL PRIOR TO INSTALLATION AND ALL SHOP DRAWINGS RELATIVE TO THE WATER DISTRIBUTION SYSTEM SHALL REQUIRE UNITED WATER APPROVAL PRIOR TO INSTALLATION.

No.	Date	Description	By
2	8/4/2016	RIDEM Wetlands Re-Submission	MSC
1	6/24/2016	RIDEM Wetlands Re-Submission	MSC
	2/20/2016	RIDEM Wetlands Submission	DMR

Drawn By: DMR

Detail Sheet - Sewer

Wilson & Tarn Street Development

Assessor's Plat 57-1, Lots 121, 122 & 146
South Kingstown, Rhode Island

Applicant
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521 Liberty Lane
West Kingston, RI 02892

Tel (401) 783-4045

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SHEET 11 OF 11

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