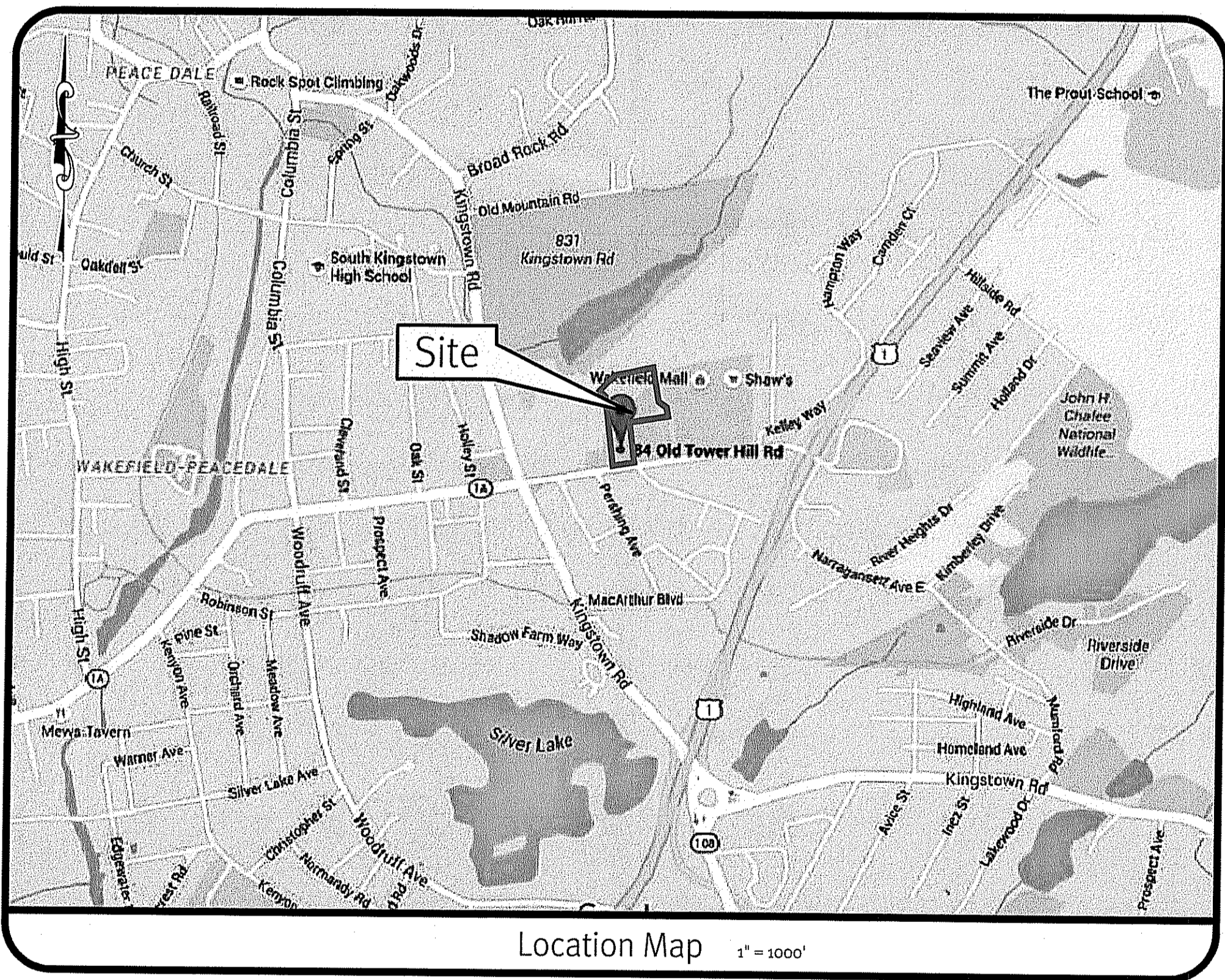
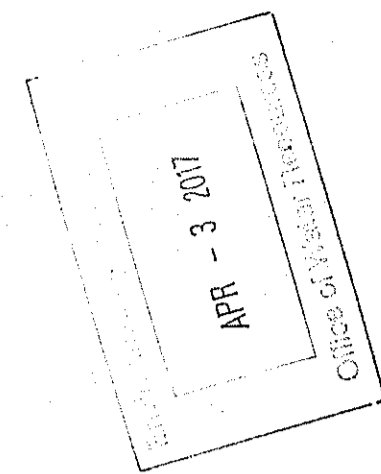


# RIDEM Submission

# 84 Old Tower Hill Road

South Kingstown, Rhode Island 02879

Assessor's Plat 57-2 Lot 68



## Sheet Index

1. Cover Sheet
2. Aerial & USGS Map
3. Existing Conditions Plan
4. Site Layout Plan
5. Erosion Control Plan
6. Grading Plan
7. Utility Plan
8. Detail Sheet - 1
9. Detail Sheet - 2
10. Sand Filter Detail - 3

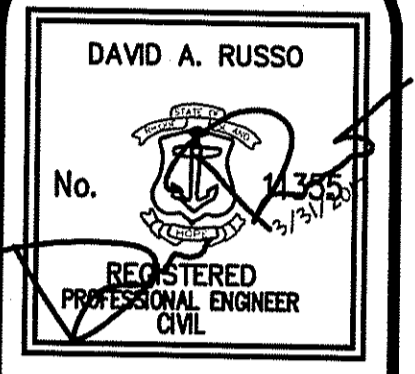
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED MAY 18 2017 FILE # 16-0289  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Mark D. Wencsek*

**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.

**RIDOT**  
 The Proposed Improvements Will Not Increase the Rate of Stormwater Runoff Onto the State Highway. All Work Within the State Right of Way Must Conform to the RI Standard Specifications, Details 2013 Edition, and Addendums.

**DiPrete Engineering**  
 Two Stafford Court Cranston, RI 02920  
 tel 401-943-1000 fax 401-664-6006 www.diprete-eng.com

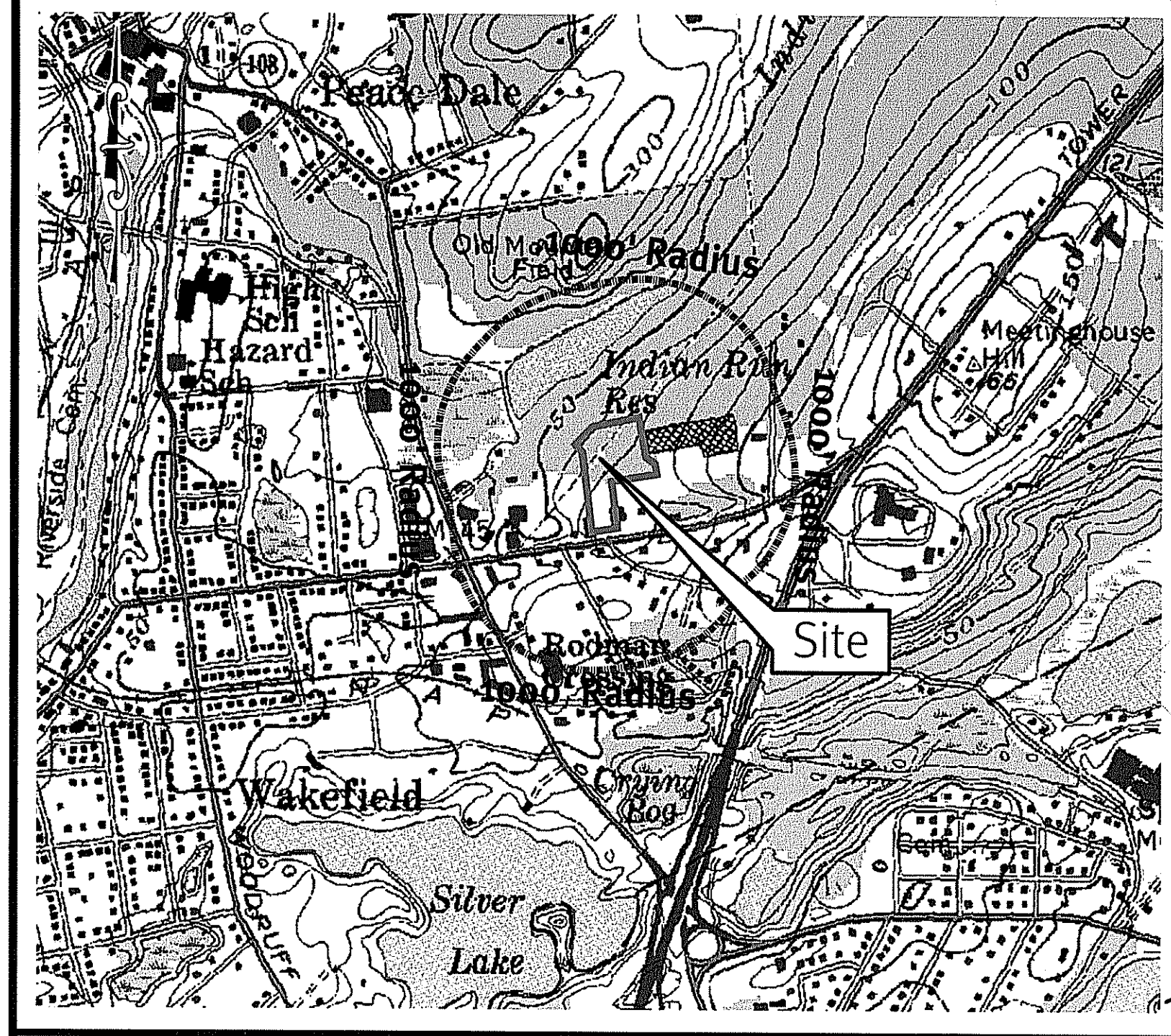
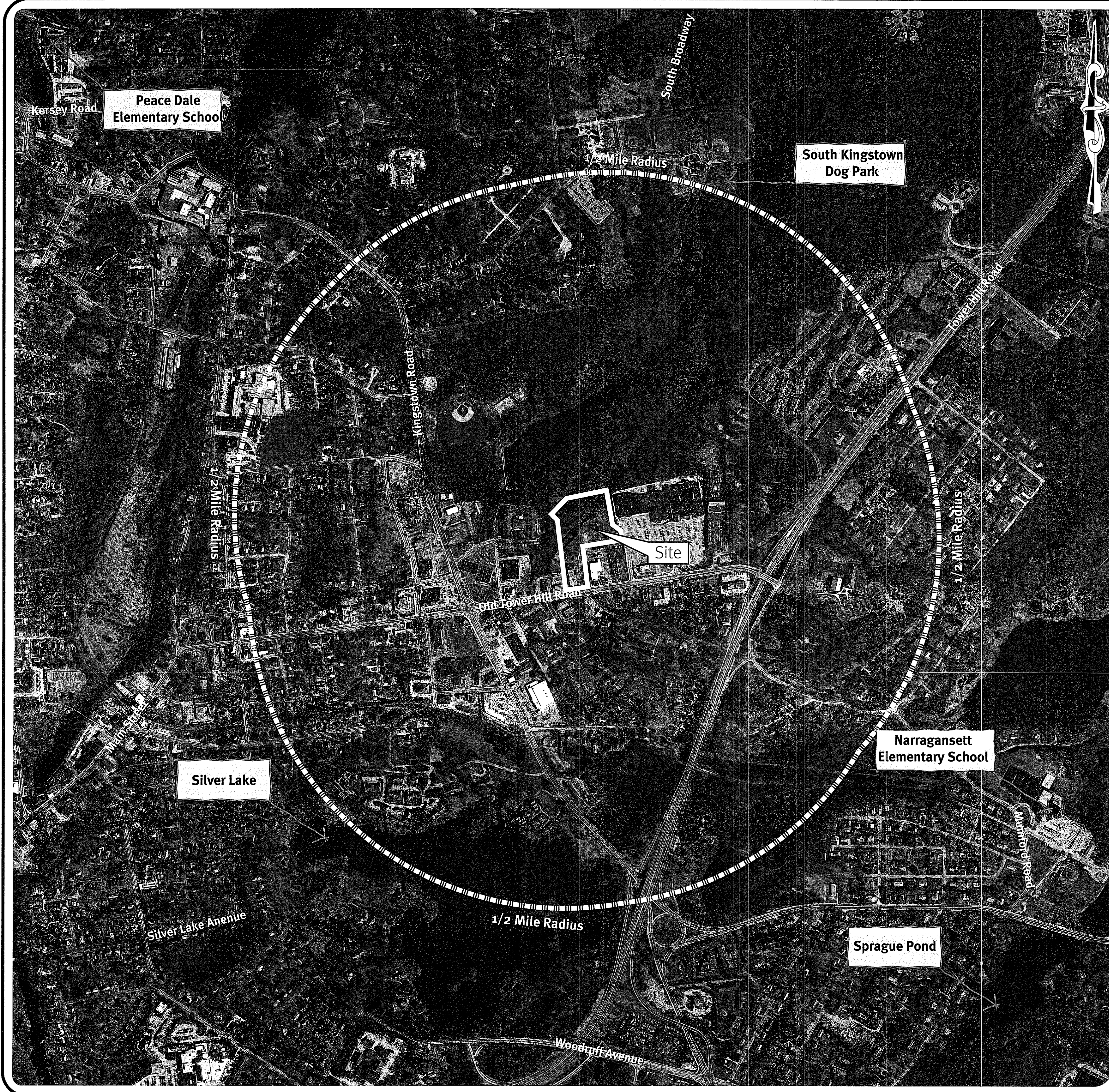


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 The contractor is responsible for all of the means, methods, safety, precautions and requirements, and OSHA conformance in the implementation of this plan and design.

NO.	DATE	DESCRIPTION	DESIGN BY: D.A.R.
1	10-20-2017	RIDEM Submission	
2	11-27-2016	RIDEM Submission	

**Cover Sheet**  
**84 Old Tower Hill Road**  
 South Kingstown, Rhode Island 02879  
 Applicant: **Bluedog Capital Partners, LLC**  
 One Custom House Street, Suite 4, Providence, RI 02903  
 tel 401-421-9200  
 DE Job No: 2328-001 Copyright 2017 by DiPrete Engineering Associates, Inc.

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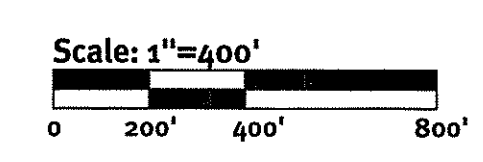


USGS Map Scale: 1"=1000'

Photo obtained from the RI-GIS.

**Legend:**

- PROPERTY LINE
- 1000' RADIUS LINE
- HALF MILE RADIUS LINE



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
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*Jonathan D. Wenczek*

**DiPrete Engineering**  
 Two Stafford Court Cranston, RI 02920  
 tel 402-943-1000 fax 401-464-6006 www.diprete-eng.com

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DAVID A. RUSSO  
 No. 14355  
 REGISTERED PROFESSIONAL ENGINEER CIVIL

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No.	Date	Description	By
1	3-31-2017	8029A Submission	D.A.R.
2	10-17-16	8029A Submission	D.A.R.

Drawn By: M.S.C. Design By: D.A.R.

**Aerial & USGS Map**  
 84 Old Tower Hill Road  
 South Kingstown, Rhode Island 02879

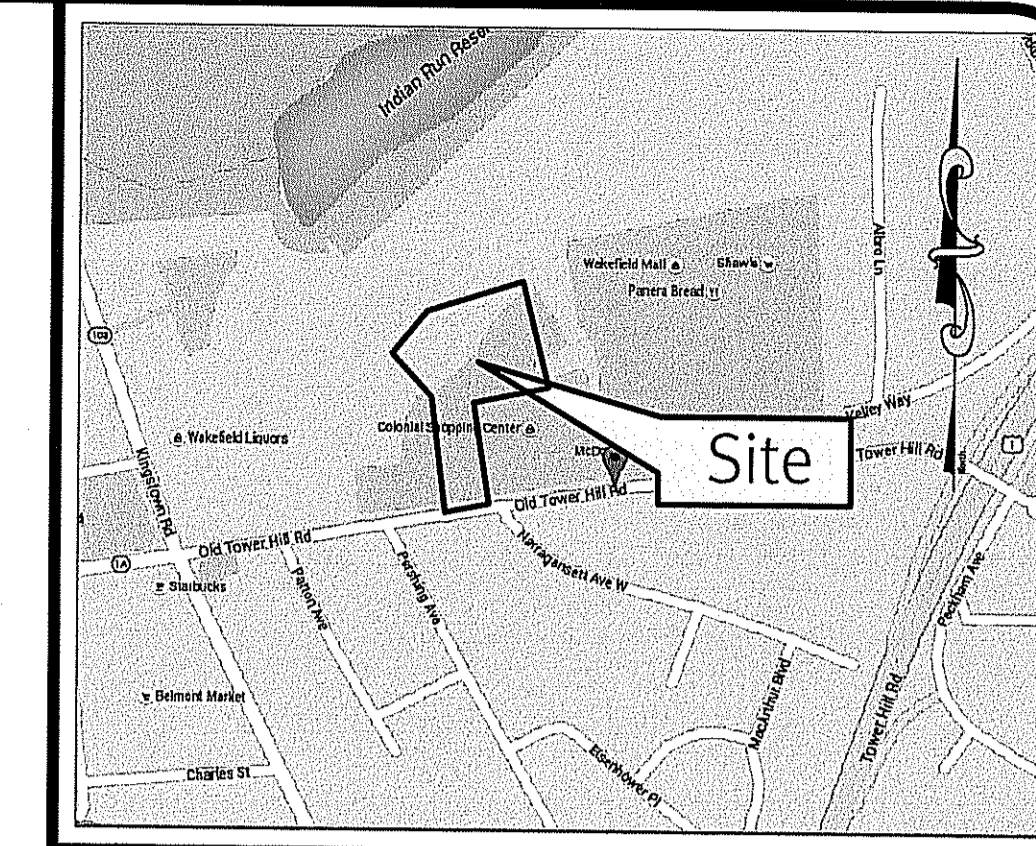
Applicant:  
**Bluedog Capital Partners, LLC**  
 One Custom House Street Ste 4, Providence, RI 02903  
 tel 401-421-9200

DE Job No: 2128-001 Copyright 2017 by DiPrete Engineering Associates, Inc.

**Legend**

- NOT ALL ITEMS SHOWN WILL APPEAR ON THE SURVEY
- |          |                    |       |                           |
|----------|--------------------|-------|---------------------------|
| BUILDING |                    | ▲/△   | NAIL FOUND/SET            |
| ASPHALT  |                    | ●/◎   | DRILL HOLE FOUND/SET      |
| AP       | ASSESSOR'S PLAT    | ○/⊙   | IRON ROD/PIPE FOUND/SET   |
| N/F      | NOW OR FORMERLY    | ■/□   | BOUND FOUND/SET           |
| (D)      | DEED               | ⊕     | SIGN                      |
| (M)      | MEASURED           | ⊙     | BOLLARD                   |
| (C)      | CALCULATED         | ⊙ CB  | SOIL EVALUATION           |
| (CA)     | CHORD ANGLE        | ⊙ DCB | CATCH BASIN               |
| HC       | HANDICAPPED        | ⊙ DMH | DOUBLE CATCH BASIN        |
|          | PROPERTY LINE      | ⊕ FES | DRAINAGE MANHOLE          |
|          | ASSESSORS LINE     | ⊕     | FLARED END SECTION        |
|          | GUARDRAIL          | ⊕ EMH | GUY POLE                  |
|          | FENCE              | ⊕ UP  | ELECTRIC MANHOLE/HANDHOLE |
|          | RETAINING WALL     | ⊕ SMH | UTILITY/POWER POLE        |
|          | STONE WALL         | ⊕     | LIGHTPOST                 |
|          | MINOR CONTOUR LINE | ⊕     | SEWER/SEPTIC MANHOLE      |
|          | MAJOR CONTOUR LINE | ⊕     | SEWER VALVE               |
|          | WATER LINE         | ⊕     | CLEANOUT                  |
|          | SEWER LINE         | ⊕     | HYDRANT                   |
|          | SEWER FORCE MAIN   | ⊕     | IRRIGATION VALVE          |
|          | GAS LINE           | ⊕     | WATER VALVE               |
|          | ELECTRIC LINE      | ⊕     | WELL                      |
|          | OVERHEAD WIRES     | ⊕     | MONITORING WELL           |
|          | DRAINAGE LINE      | ⊕     | UNKNOWN MANHOLE           |
|          |                    | ⊕     | GAS VALVE                 |
|          |                    | ⊕     | WETLAND FLAG              |
|          |                    | ⊕     | BENCH MARK                |
|          |                    | ⊕     | BUSH                      |
|          |                    | ⊕     | TREE                      |

AP 57-2, LOT 80  
N/F  
ELLIE & ROB REALTY,  
CORPORATION



Locus Map Not To Scale

**DiPrete Engineering**

Two Stafford Court Cranston, RI 02906  
tel 401-943-1000 fax 401-664-6066 www.diprete-eng.com

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**General Notes**

1. THE PARCEL IS FOUND ON ASSESSOR'S PLAT 57-2, LOT 68 IN THE TOWN OF SOUTH KINGSTOWN, WASHINGTON COUNTY, RHODE ISLAND.
2. THE OWNER PER DEED BOOK 600, PAGE 428 IS FRED W. SMITH, INC.
3. THE PARCEL IS LOCATED IN ZONE X PER FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP 4408C0203J, DATED OCTOBER 16, 2013.
4. THE PARCEL IS ZONED CH PER THE ASSESSOR'S ONLINE DATABASE. PLEASE CONTACT THE ZONING DEPARTMENT FOR ANY ADDITIONAL INFORMATION OR FOR A CERTIFICATE OF ZONING.
5. THERE WERE NO CEMETERIES, GRAVE SITES AND OR BURIAL GROUNDS OBSERVED WITHIN THE LIMITS OF THE SURVEY.
6. FIELD SURVEY PERFORMED BY DIPRETE ENGINEERING ON MARCH 23, 2016. THIS PLAN REFLECTS ON THE GROUND CONDITIONS AS OF THAT DATE.
7. ALL UNDERGROUND UTILITIES SHOWN ON THIS PLAN HAVE BEEN LOCATED FROM FIELD SURVEY OBSERVATIONS ONLY. DIPRETE ENGINEERING IS NOT RESPONSIBLE FOR MISSING UNDERGROUND UTILITIES, EITHER IN SERVICE OR ABANDONED, NOT OBSERVED AT THE TIME OF THE SURVEY. (PLEASE CONTACT DIGSAFE 72 WORKING HOURS PRIOR TO ANY CONSTRUCTION AT 1-888-344-7233).
8. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT. DIPRETE ENGINEERING IS NOT RESPONSIBLE FOR ANY UNKNOWN OR UNRECORDED EASEMENTS, DEEDS OR CLAIMS THAT A TITLE REPORT WOULD DISCLOSE.

**Datum Note:**

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

**Plan References:**

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

**List of Possible Encroachments:**

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

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
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DATED MAY 18 2017 FILE # 16-0289  
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**Certification**

THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO SECTION 9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON JANUARY 1, 2016, AS FOLLOWS:

TYPE OF SURVEY	MEASUREMENT SPECIFICATION
COMPREHENSIVE BOUNDARY SURVEY	CLASS 1
DATA ACCUMULATION SURVEY (LIMITED)	CLASS T-2

THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS:  
PERIMETER RETRACEMENT PERFORMED BY DIPRETE ENGINEERING FOR THE PURPOSE OF SITE ENGINEERING AND MITTING.

ROBERT G. BABCOCK  
No. 2504  
PROFESSIONAL  
LAND SURVEYOR

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

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

- Old Tower Hill Road

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

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

Boundary & Topographic Survey  
84 Old Tower Hill Road  
South Kingstown, Rhode Island

Client  
Bluedog Capital Partners, LLC  
One Custom House Street Ste 4  
Providence, RI 02903

DC Job No: 228-001 Copyright 2016 by DiPrete Engineering Associates, Inc.

AP 57-2, LOT 80  
N/F  
ELLIE & ROB REALTY,  
CORPORATION

Note per DEM: Native evergreen tree or shrub species to be planted ten feet (10') apart on center in the locations indicated (O).

**General Notes:**

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9. THE SITE IS NOT WITHIN A NATURAL HERITAGE AREA (RIDEM)
10. THE SITE IS NOT WITHIN A GROUNDWATER PROTECTION OVERLAY DISTRICT (TOWN)
11. THE SITE IS NOT WITHIN THE NARROW RIVER SPECIAL AREA MANAGEMENT PLAN (CRMC)
12. THE SITE IS NOT WITHIN THE SALT PONDS SPECIAL AREA MANAGEMENT PLAN (CRMC)
13. THE SITE IS PROPOSED TO BE SERVICED BY PUBLIC WATER & PUBLIC SEWER
14. THE DRAINAGE SYSTEM WILL BE DESIGNED TO MEET THE TOWN OF SOUTH KINGSTOWN SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. THE STORMWATER MANAGEMENT SYSTEM WILL MEET RIDEM AND SOUTH KINGSTOWN BEST MANAGEMENT PRACTICES.

**Dimensional Regulations:**

CURRENT ZONING:	CH
MINIMUM LOT AREA:	20,000 SF
MINIMUM FRONTAGE AND LOT WIDTH:	100'
MINIMUM FRONT AND CORNER SIDE YARD:	40'
MINIMUM SIDE YARD:	30'
MINIMUM REAR YARD:	40'
MAXIMUM STRUCTURE HEIGHT:	35'
MAXIMUM LOT COVERAGE:	30%

**Parking Regulations:**

PARKING USE:	STORAGE
PARKING REQUIREMENT:	1/2 EMPLOYEES + 1/VEHICLE USED ON SITE (4 SPACES MINIMUM)
PARKING CALCULATION:	4 EMPLOYEES X 1 SPACE/2 EMPLOYEES = 2 SPACES
ADA PARKING REQUIRED:	2 SPACES
REQUIRED PARKING SPACES:	4 SPACES
PARKING SPACES PROVIDED:	26 SPACES
ADA PARKING PROVIDED:	2 SPACES

**Planting Note:**

- MITIGATION MEASURE PLANTINGS TO INCLUDE A MIX OF THE FOLLOWING:
- ILEX VERTICILLATA, WINTERBERRY HOLLY, 4-5' HT
  - VACCINIUM CORYMBOSUM, HIGHBUSH BLUEBERRY, 4-5' HT
  - VIBURNUM DENTATUM, ARROWWOOD VIBURNUM, 3-4' HT

**Proposed Legend**

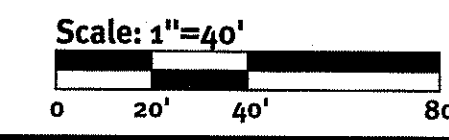
NOT ALL ITEMS SHOWN WILL APPEAR ON PLANS

(30.0)	MINOR CONTOUR LINE	W	WATER LINE
(31.0)	MAJOR CONTOUR LINE	S	SEWER LINE
+ (31.2)	SPOT ELEVATION	---	DRAINAGE LINE
---	BUILDING SETBACKS	RL	ROOF LEADER PIPE
---	LIMIT OF DISTURBANCE	SD	SUBDRAIN PIPE
---	STRAW WATTLE, SILT FENCE (RIDOT STD 9.2.0) OR APPROVED EQUAL	⊕	CATCH BASIN
---	EDGE OF PAVEMENT	⊙	MANHOLE
---	BITUMINOUS BERM (RIDOT STD 7.5.1)	⊔	FLARED END SECTION
---	BUILDING FOOTPRINT		
---	BUILDING OVERHANG		
---	ASPHALT PAVEMENT		
---	CONCRETE SIDEWALK		
---	TREELINE		
---	GUARDRAIL (RIDOT STD 34.2.0, 34.4.0 OR APPROVED EQUAL)		
---	RETAINING WALL		
---	RIP RAP		
---	SIGN (RIDOT STD 24.6.2 AS APPLICABLE)		
7.1.4	RIDOT STD DETAIL REFERENCE		

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

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
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DATED MAY 18 2017 FILE # 16-0289  
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*John D. Wenczek*



DAVID A. RUSSO  
No. 13513  
REGISTERED PROFESSIONAL ENGINEER CIVIL

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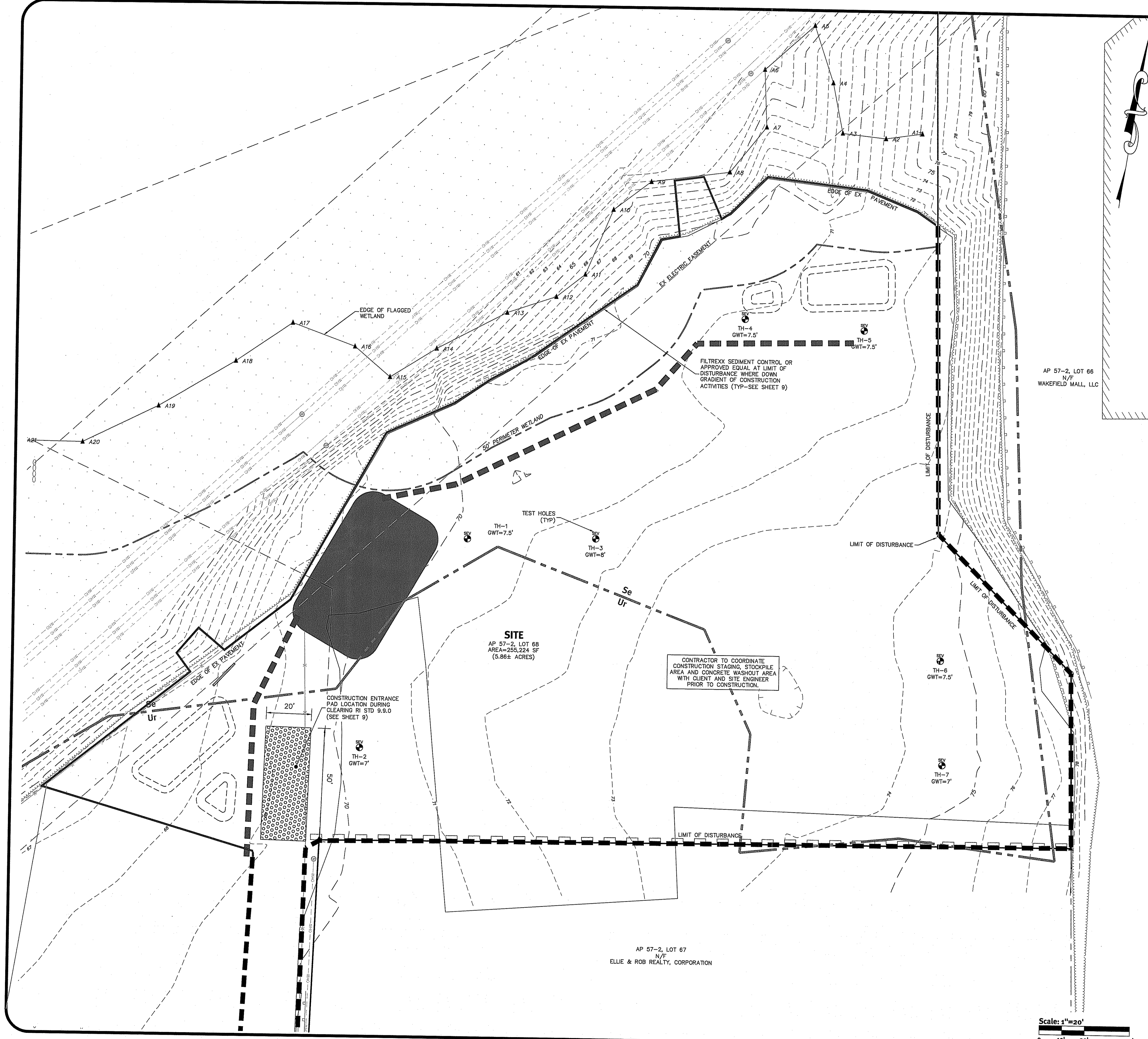
The contractor is responsible for all of the means, methods and requirements, and OSHA compliance in the implementation of this plan and design.

DESIGN	DATE	BY
1	3/23/2017	J.R.
2	3/23/2017	J.R.
3	3/23/2017	J.R.
4	3/23/2017	J.R.
5	3/23/2017	J.R.
6	3/23/2017	J.R.
7	3/23/2017	J.R.
8	3/23/2017	J.R.
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10	3/23/2017	J.R.
11	3/23/2017	J.R.
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76	3/23/2017	J.R.
77	3/23/2017	J.R.
78	3/23/2017	J.R.
79	3/23/2017	J.R.
80	3/23/2017	J.R.

Site Plan  
84 Old Tower Hill Road  
South Kingstown, Rhode Island 02879

Blue Dog Capital Partners, LLC  
One Custom House Street, Suite A, Providence, RI 02903  
tel 401-421-9200

Copyright 2017 by Diprete Engineering Associates, Inc.



- General Notes:**
1. ALL EROSION CONTROL, DIVERSIONS, TEMPORARY SEDIMENTATION TRAP, ETC. SHALL BE INSTALLED PER THE RHODE ISLAND SOIL EROSION AND SEDIMENTATION CONTROL LATEST EDITION.
  2. FILTREXX SEDIMENT CONTROL (OR AN APPROVED EROSION CONTROL DEVICE) AND DIVERSIONS SHALL BE USED TO CONTROL RUNOFF DURING CONSTRUCTION OF THE PROPOSED PAVEMENT AREAS. AFTER INITIAL PAVEMENT GRADING IS COMPLETE AND THE PERMANENT DRAINAGE INFRASTRUCTURE HAS BEEN CONSTRUCTED, THE DRAINAGE NETWORK SHALL BE BROUGHT ONLINE AND THE DIVERSIONS SHALL BE DECONSTRUCTED.
  3. ONCE THE SEDIMENTATION TRAP IS NO LONGER REQUIRED AND ALL TRIBUTARY AREAS HAVE BEEN STABILIZED, THE AREAS SHALL BE BROUGHT TO FINAL DESIGN GRADES.
  4. INLET PROTECTION SHALL BE INSTALLED ON ALL CATCH BASINS ADJACENT TO PROPOSED WORK.
  5. SEE SECTION 1.2 OF THE RI SESC HANDBOOK FOR SEQUENCE OF CONSTRUCTION ACTIVITY.
  6. SEE SECTION 2.2 OF THE RI SESC HANDBOOK FOR PROJECT PHASING.
  7. CONTRACTOR MAY MODIFY SEQUENCE OF CONSTRUCTION WITH APPROVAL FROM DESIGN ENGINEER.
  8. REFER TO DETAIL SHEETS FOR FURTHER INFORMATION.

**Soil Erosion Control Legend:**

- DIVERSION RUNOFF CONVEYANCE MEASURE
- TEMPORARY SEDIMENT TRAP
- FILTREXX SEDIMENT CONTROL OR APPROVED EQUAL EROSION CONTROL MEASURE
- CONSTRUCTION ENTRANCE (RI STD 9.9.0)

SEDIMENT TRAP DIMENSIONS	TRAP 1
TRIBUTARY DRAINAGE AREA	1.79 ac
WET STORAGE DEPTH (Dw)	2.00 ft
DRY STORAGE DEPTH (Dd)	2.00 ft
TOTAL DEPTH (D)	4.00 ft
BOTTOM OF TRAP AREA (Ab)	1,100 sq.ft
WETTED SURFACE AREA (Aw)	1,726 sq.ft
SURFACE AREA AT OUTLET (Ad)	2,453 sq.ft

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

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
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*Yvonne D. Jensen*

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Two Stafford Court Cranston, RI 02910  
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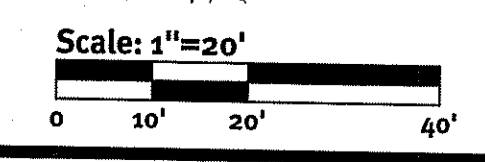
DAVID A. RUSSO  
No. 1475  
REGISTERED PROFESSIONAL ENGINEER CIVIL

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No.	Date	Description	Design By: D.A.R.
1	3-13-2017	REVISION SUBMISSION	
2	11-27-16	REVISION SUBMISSION	

Soil Erosion Sediment Control Plan  
**84 Old Tower Hill Road**  
South Kingstown, Rhode Island 02879  
Applicant: **Bluedog Capital Partners, LLC**  
One Custom House Street Ste 4, Providence, RI 02903  
tel 401-421-9500  
DE Job No: 2128-001. Copyright 2017 by DiPrete Engineering Associates, Inc.

z:\Main\projects\2128-001\_001\_001\_tower\_hill\_road\_plat\_57-2\_lot\_66\autocad drawings\2128-001-clen.dwg PlotSet: 3/31/2017



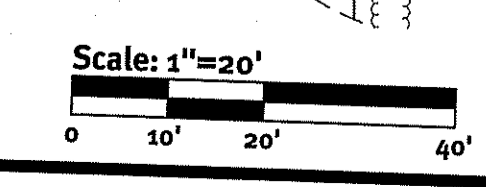


- Traffic Notes:**
- DURING CONSTRUCTION TRAFFIC CONES ARE TO BE USED FOR SEPARATION OF ACTIVE TRAFFIC FROM WORK ZONE.
  - DURING CONSTRUCTION FLAGGERS SHALL BE EMPLOYED TO ENSURE SAFETY FOR INTERACTION OF CONSTRUCTION VEHICLES AND ACTIVE TRAFFIC.
  - ALL SIGNS, FLAGGERS, TRAFFIC CONTROL DEVICES, AND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

- ADA Notes:**
- ALL IMPROVEMENTS SHALL COMPLY WITH THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG)" BY THE DEPARTMENT OF JUSTICE.
  - MAXIMUM RUNNING SLOPE ALONG ALL ACCESSIBLE PATHS OF TRAVEL SHALL BE 4.5% OR 0.045', AND MAXIMUM CROSS SLOPE ALONG ALL ACCESSIBLE PATHS OF TRAVEL SHALL BE 0.015'/.
  - MAXIMUM SLOPE IN ALL DIRECTIONS FOR ALL ACCESSIBLE PARKING SPACES AND LOADING AREAS SHALL BE 0.015'/.
  - A 5'x5' LANDING WITH A MAXIMUM SLOPE OF 1.5% OR 0.015'/ IN ALL DIRECTIONS SHALL BE PROVIDED IN FRONT OF ALL PUBLICLY ACCESSIBLE BUILDING ENTRANCES/EGRESSSES.
  - SIDEWALK CURB RAMPS SHALL COMPLY WITH DIPRETE ENGINEERING DETAILS THAT MEET OR EXCEED RIDOT STANDARDS 43.3.0, 43.3.1, & 43.4.1 AS SHOWN ON THE DETAIL SHEET.
  - PLEASE NOTE THAT THE GRADING AND PLAN VIEWS AS WELL AS THE STANDARD DETAILS MAY NOT SHOW THE DETAIL NECESSARY TO CONSTRUCT WALKWAYS AND RAMPS TO ADA STANDARDS. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE LEVEL OF CARE NECESSARY TO BE CERTAIN THAT THE CONSTRUCTED PRODUCT MEETS ADA STANDARDS. IN THE EVENT OF ANY CONFLICTS THE CONTRACTOR SHALL NOTIFY THE DESIGNER BEFORE CONSTRUCTION FOR ADVICE IN FINDING A RESOLUTION.

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

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED MAY 18 2017 FILE # 16-0289  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE



**Diprete Engineering**  
 Two Stafford Court Cranston, RI 02930  
 Tel: 401-943-1000 Fax: 401-664-6006 www.diprete-eng.com  
 Boston • Providence • Newport

**DAVID A. RUSSO**  
 No. 11245  
 REGISTERED PROFESSIONAL ENGINEER  
 CIVIL

This regulatory submission set shall not be used for construction purposes unless stamped, issued for construction, and signed by a Diprete Engineering representative.  
 The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA conformance in the implementation of this plan and design.

No.	Date	Description
1	12/20/17	BID/AS SUBMISSION
2	01/22/18	BID/AS SUBMISSION
3	02/01/18	DESCRIPTION

Drawn By: M.S.C.  
 Design By: D.A.R.

**Grading & Drainage Plan**  
**84 Old Tower Hill Road**  
 South Kingstown, Rhode Island 02879  
 Applicant: **Bluedog Capital Partners, LLC**  
 One Custom House Street Ste 4, Providence, RI 02903  
 tel 401-421-9200  
 DE 06b No. 2228-001 Copyright 2017 by Diprete Engineering Associates, Inc.

AP 57-2, LOT 80  
N/F  
ELLIE & ROB REALTY,  
CORPORATION

**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 SPRING 2017 OR 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 SPEC 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 RETAINING WALLS AND STEEP SLOPES ARE SHOWN SCHEMATICALLY ONLY AND DIPRETE ENGINEERING IS NOT PROVIDING THE DESIGN OF THESE ITEMS. THE ACTUAL WALLS AND SLOPES ARE TO BE BUILT UNDER THE DIRECTION OF A GEOTECHNICAL ENGINEER AND CERTIFIED TO THE OWNER PRIOR TO THE COMPLETION OF THE PROJECT. SHOP DRAWINGS TO BE SUBMITTED PRIOR TO CONSTRUCTION.
12. 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.
13. 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.
14. NO STOCKPILING OF MATERIAL TO BE LOCATED IN THE RIGHT OF WAY AND NO OPEN TRENCHES ARE TO BE LEFT OVERNIGHT.
15. ALL LOAM IN DISTURBED AREAS TO BE STOCKPILED FOR FUTURE USE.
16. 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.
17. NO STUMP DUMPS ARE PROHIBITED ONSITE.
18. 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 AFORESAID 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 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 CONTRACTOR'S RESPONSIBILITY.
19. IF CONCRETE TRUCKS ARE WASHED OUT ONSITE, ALL WASHOUT MUST BE COMPLETED IN THE DESIGNATED CONCRETE WASHOUT AREA.

**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.

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

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
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*Walter D. Wenzel*

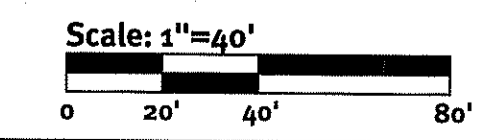
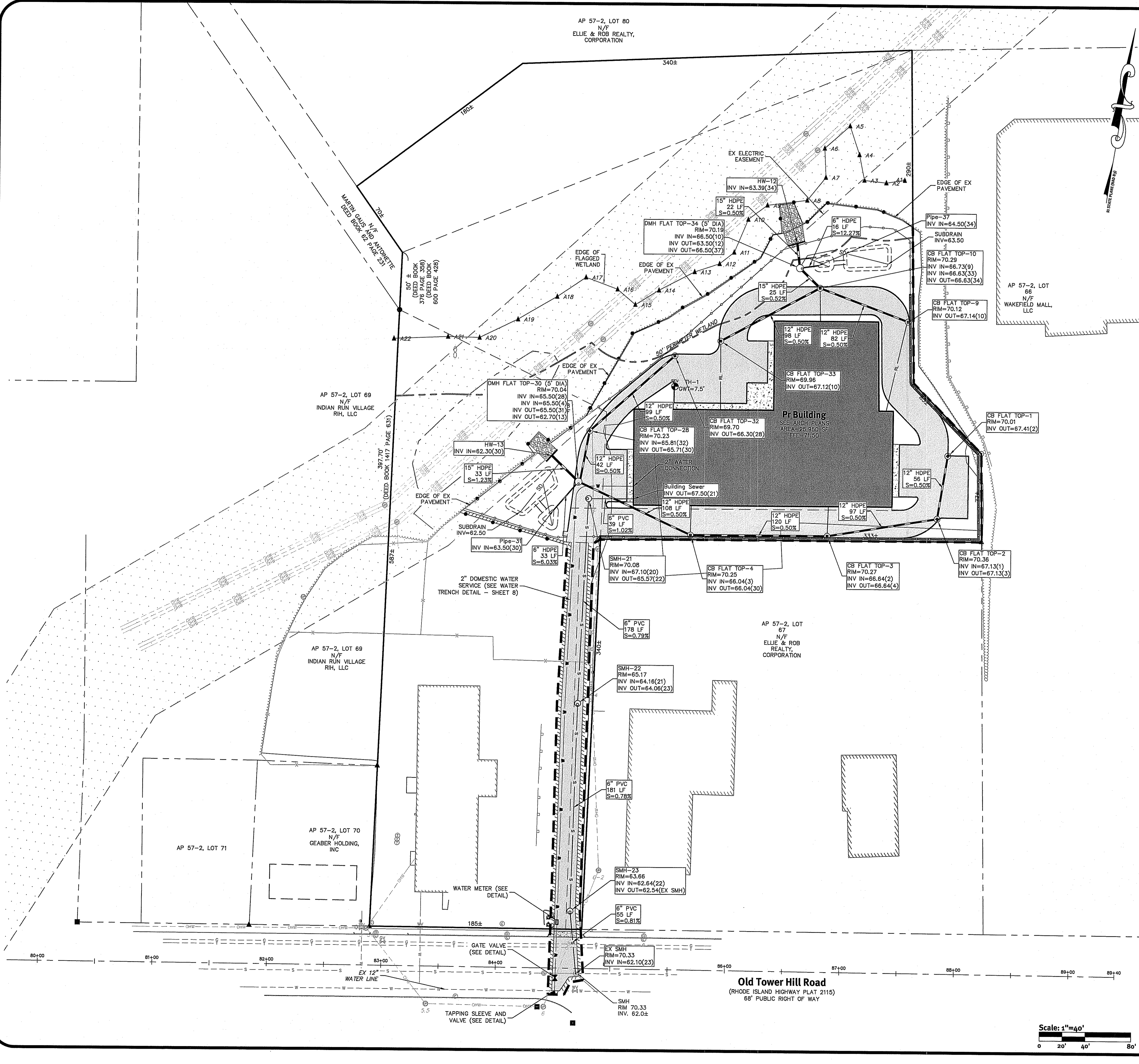
**Diprete Engineering**  
Two Stafford Court, Cranston, RI 02930  
Tel: 401-943-1000 Fax: 401-464-6006 www.diprete-eng.com

**DAVID A. RUSSO**  
No. 12345  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL

This regulatory submission set shall not be used for purposes unless stamped, issued for construction and signed by a Diprete Engineering representative.  
The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA conformance in the implementation of this plan and design.

No.	Date	Description	Design By: D.A.R.
1	12/22/2017	RDMA Submission	D.A.R.
2	11/12/2016	RDMA Submission	D.A.R.

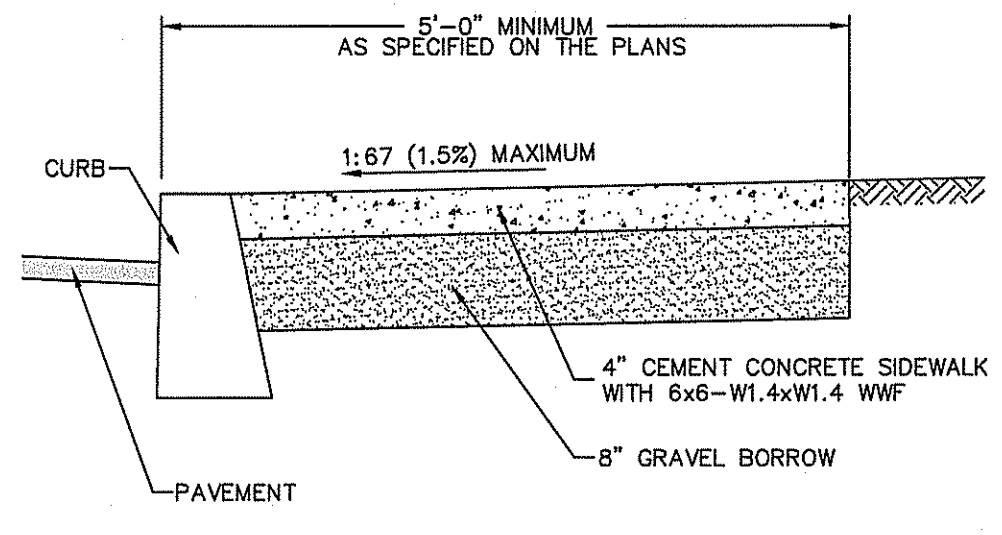
**Utility Plan**  
84 Old Tower Hill Road  
South Kingstown, Rhode Island 02879  
Applicant: **Blue Dog Capital Partners, LLC**  
One Custom House Street, Suite 400, Providence, RI 02903  
Tel: 401-421-9200  
DE Job No: 2128-001 Copyright 2017 by Diprete Engineering Associates, Inc.



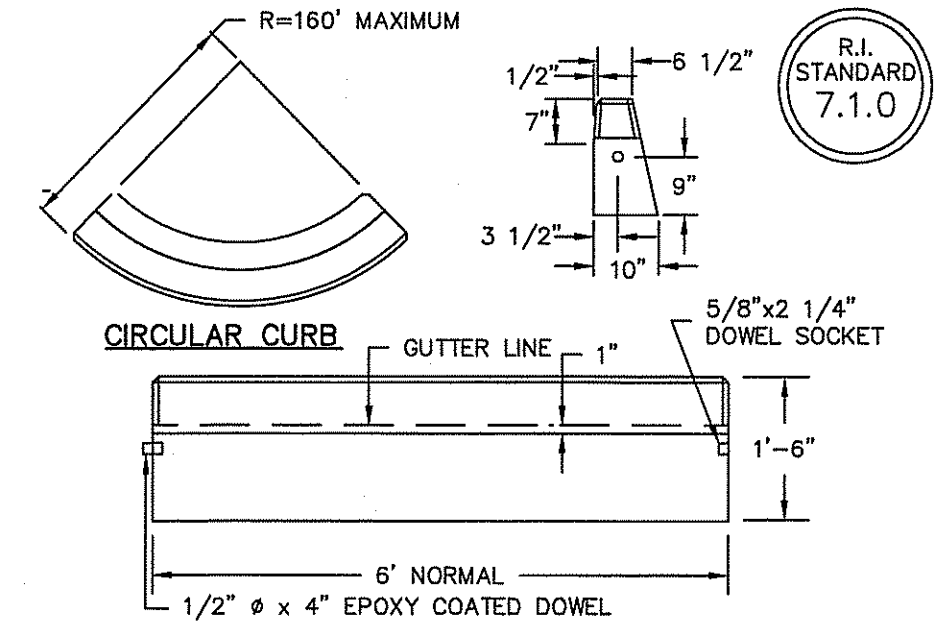
**Old Tower Hill Road**  
(RHODE ISLAND HIGHWAY PLAT 2115)  
65' PUBLIC RIGHT OF WAY

z:\demain\projects\2128-001 old tower hill road plat 57-2 lot 69\landcard\drawings\2128-001-001.dwg Plotdate: 3/5/2017

- NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
  2. FOR CURB SETTING DETAIL, REFERENCE STD. 7.6.0.
  3. MEETS OR EXCEEDS GUIDELINES OF RIOT STANDARD DETAIL 43.1.0.

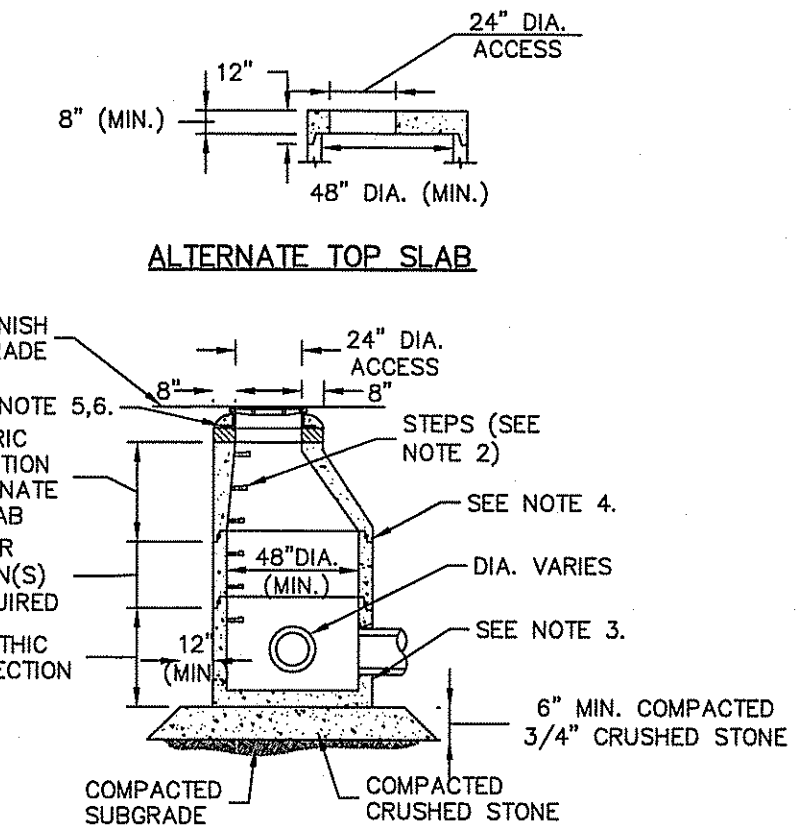


**Cement Concrete Sidewalk**  
NOT TO SCALE



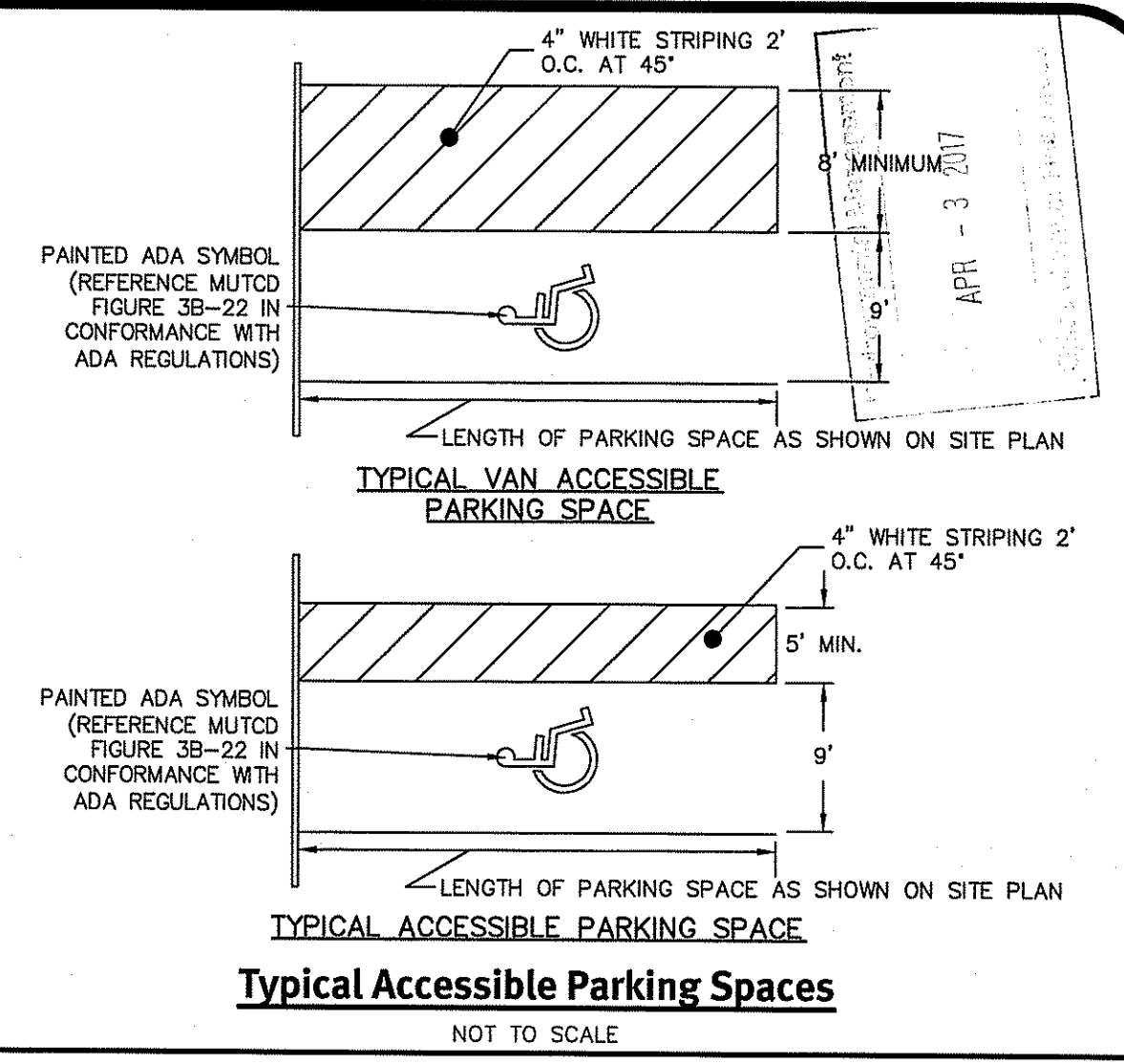
- NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
  2. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3'-0".
  3. EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH.
  4. CIRCULAR CURB IS REQUIRED ON CURVES WITH RADI OF 160'-0" OR LESS. STRAIGHT CURB TO BE USED ON CURVES OF MORE THAN 160'-0" RADIUS.
  5. EXPOSED EDGES TO HAVE A 3/4" CHAMFER.

**Precast Concrete Curb**  
NOT TO SCALE



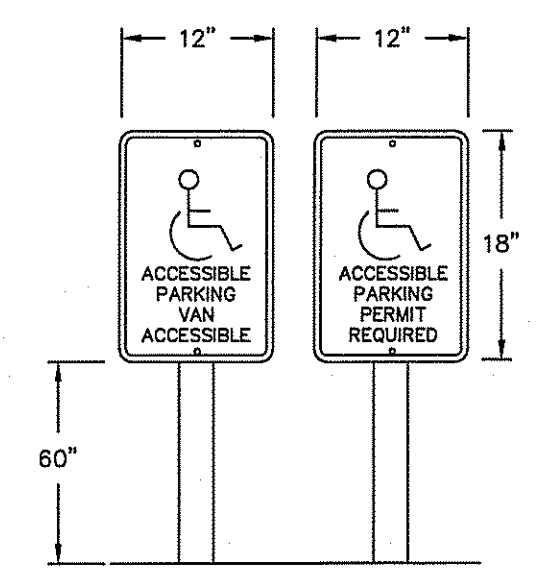
- NOTES:
1. ALL SECTIONS SHALL BE DESIGNED FOR H-20 LOADING.
  2. COPOLYMER MANHOLE STEPS SHALL BE INSTALLED AT 12" O.C. FOR THE FULL DEPTH OF THE STRUCTURE.
  3. PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE.
  4. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PERFORMED BUTYL RUBBER.
  5. DRAIN MANHOLE FRAME AND COVER SHALL BE SET IN FULL 12" MORTAR BED, ADJUST TO GRADE WITH PRECAST CONCRETE RISER OR BRICK.
  6. DO NOT PLACE MORTAR BED AROUND STRUCTURE UNTIL IT IS AT THE REQUIRED FINISH ELEVATION AND ALIGNMENT.
  7. FRAME AND COVER SHALL CONFORM TO MASSACHUSETTS STANDARDS HEAVY DUTY (EAST JORDAN, NEENAH, OR APPROVED EQUIVALENT).

**Precast Concrete Drain Manhole**  
NOT TO SCALE



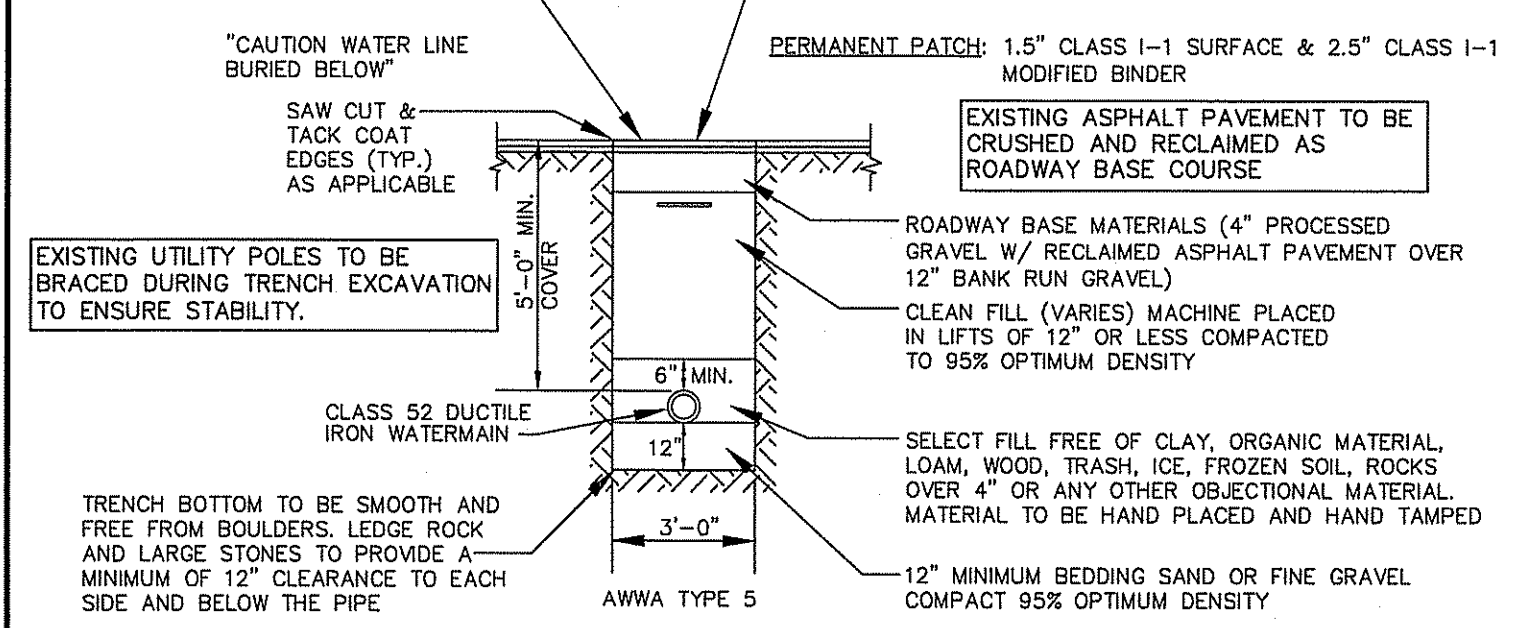
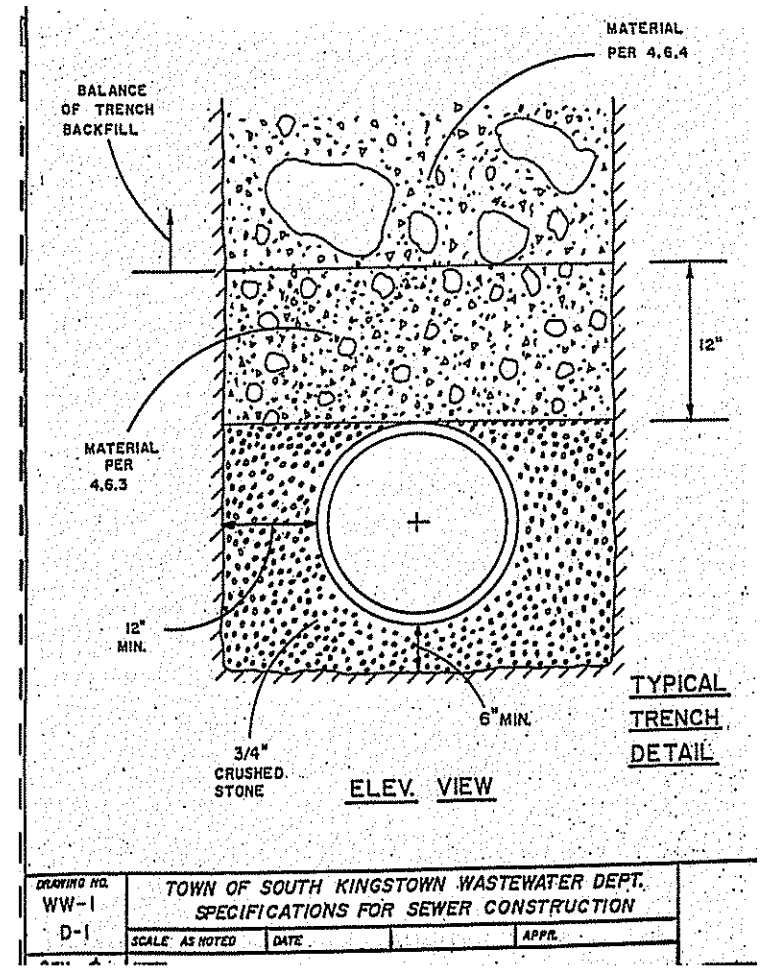
**TYPICAL VAN ACCESSIBLE PARKING SPACE**

**TYPICAL ACCESSIBLE PARKING SPACE**

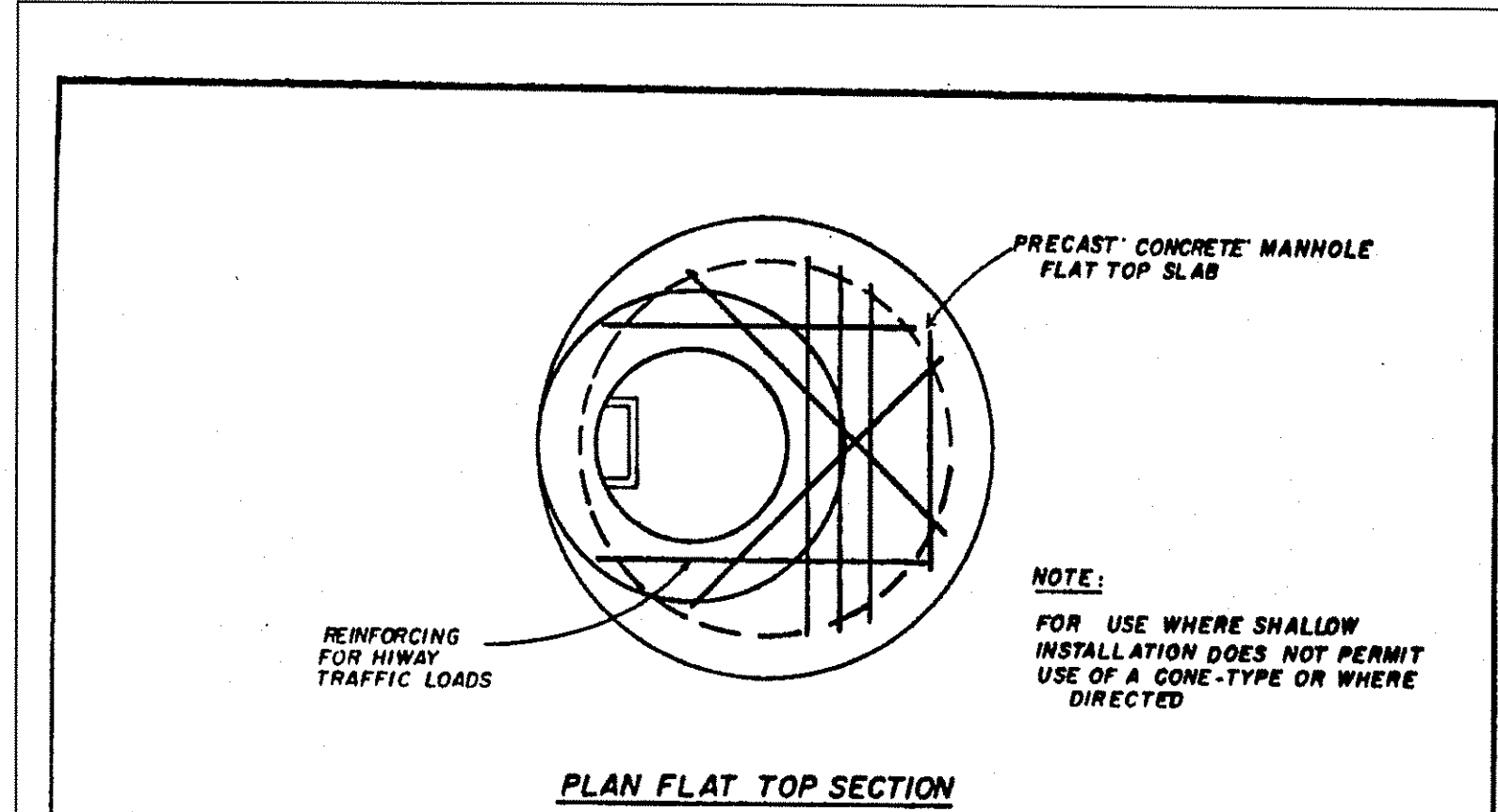


- NOTES:
1. SIGN SHALL BE PLACED BEHIND APPLICABLE VAN ACCESSIBLE OR ACCESSIBLE SPACE AS SHOWN ON SIGNAGE PLAN.
  2. ACCESSIBLE PARKING SPACES AND SIGNAGE SHALL COMPLY WITH LATEST VERSION OF THE ADA STANDARDS FOR ACCESSIBLE DESIGN OR THE RI BUILDING CODE, WHICHEVER STANDARD CONTROLS.

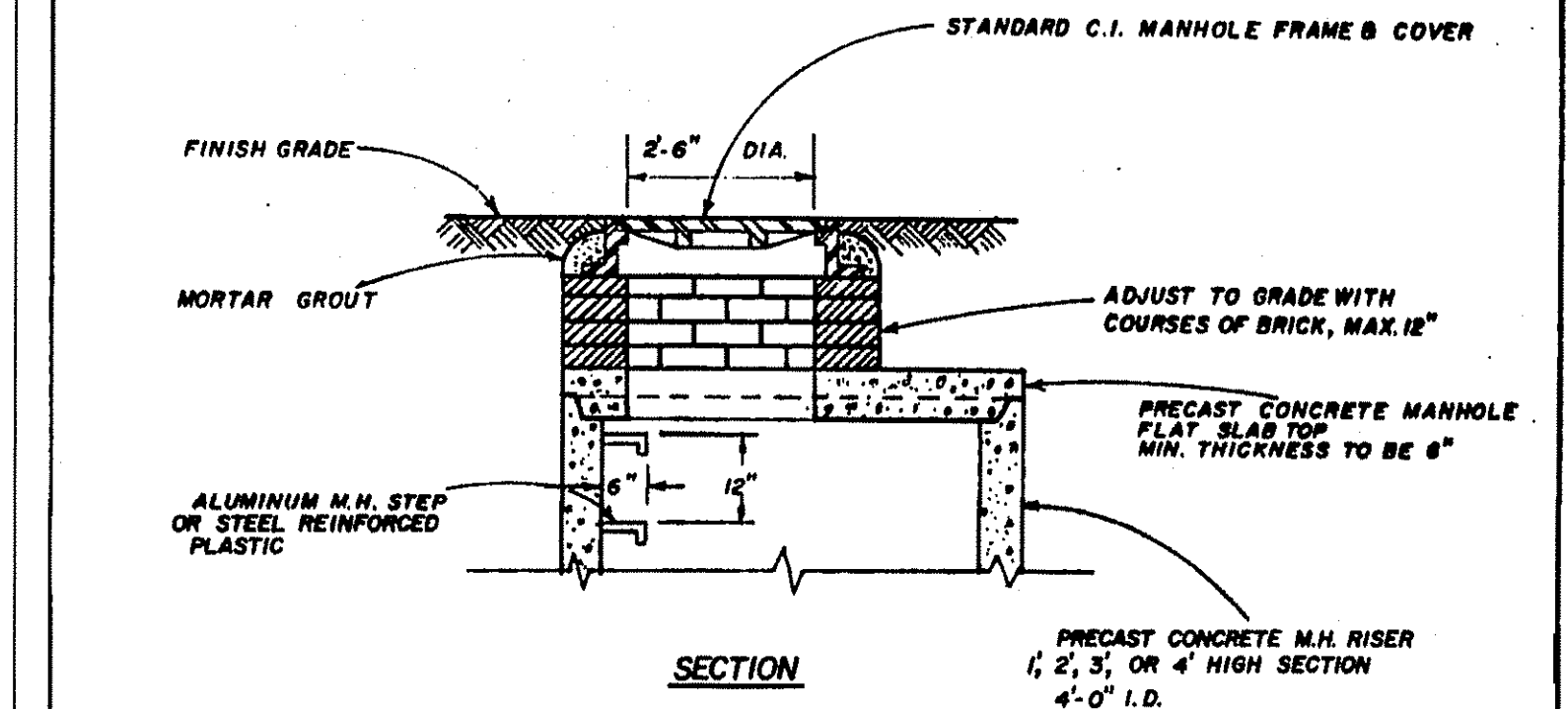
**Typical Accessible Parking Post & Sign**  
NOT TO SCALE



**Water Trench Details**  
NOT TO SCALE

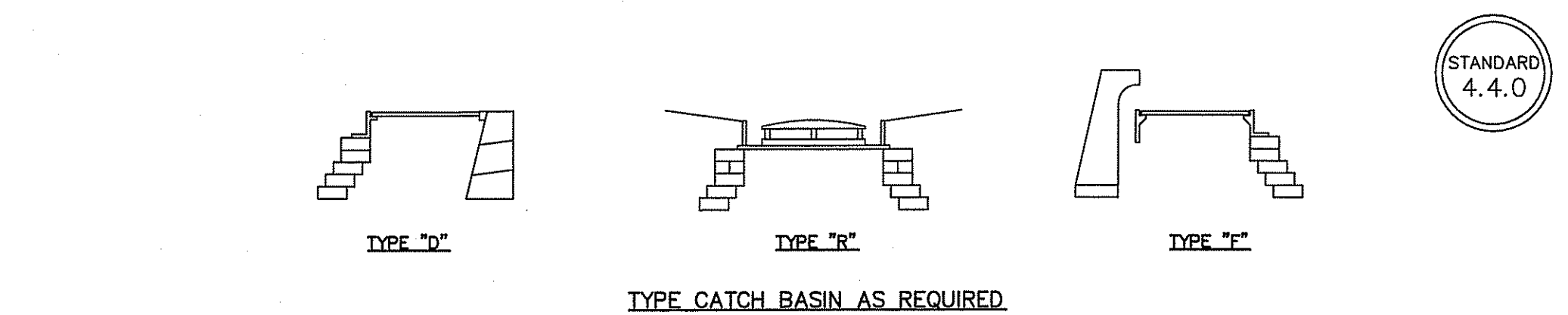


**PLAN FLAT TOP SECTION**

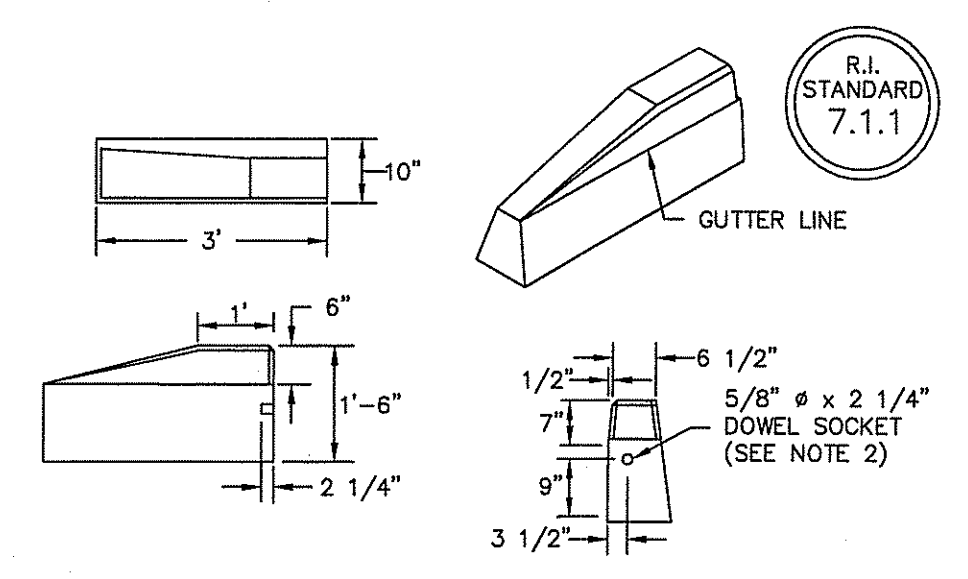


**SECTION MANHOLE DETAILS**

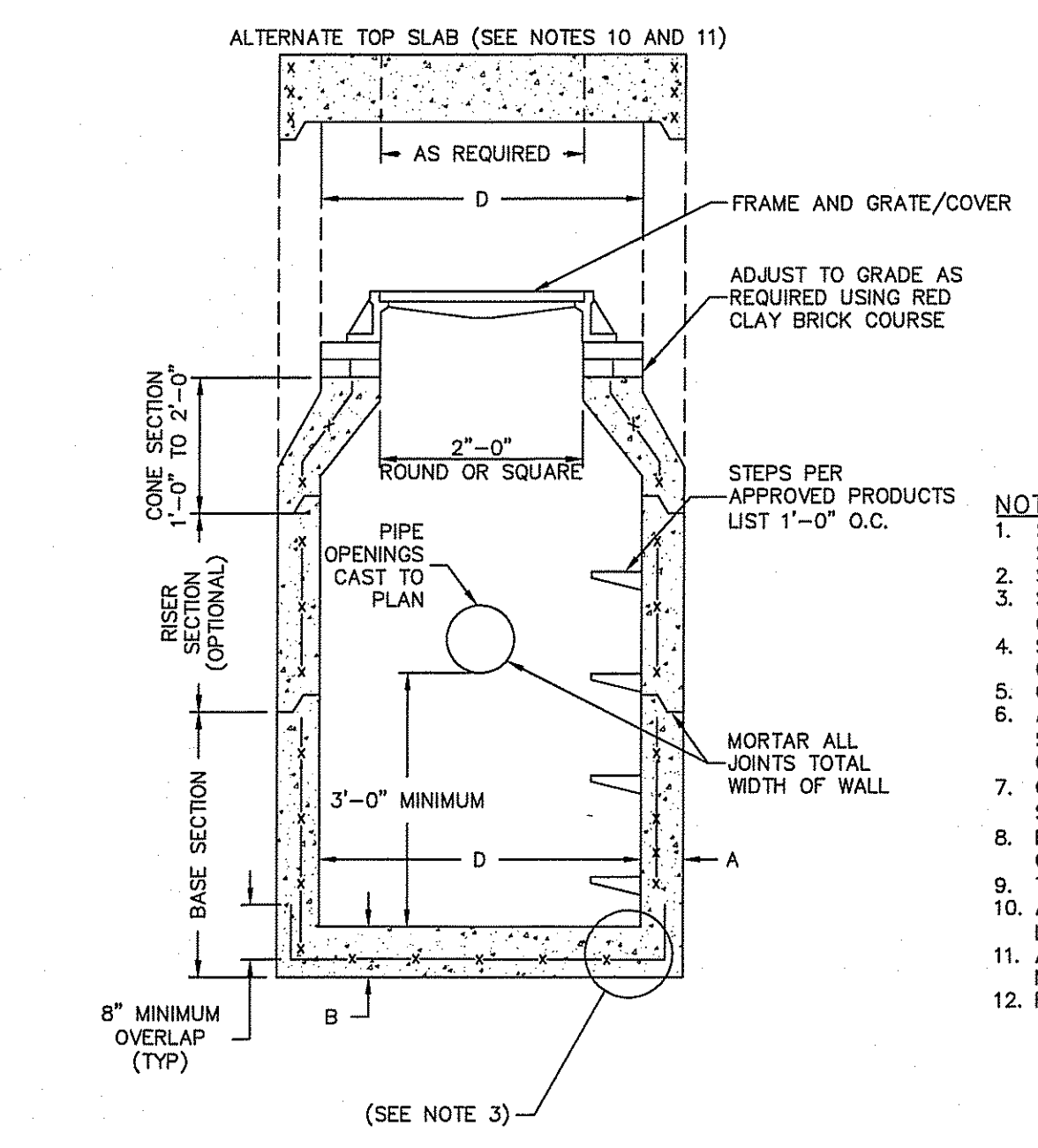
DRAWING NO.	TOWN OF SOUTH KINGSTOWN WASTEWATER DEPT. SPECIFICATIONS FOR SEWER CONTRACTS		
WW-1	SCALE 1/2" = 1'-0"	DATE FEB 1978	DRN. PJE
D-5			APPR.



**TYPE CATCH BASIN AS REQUIRED**



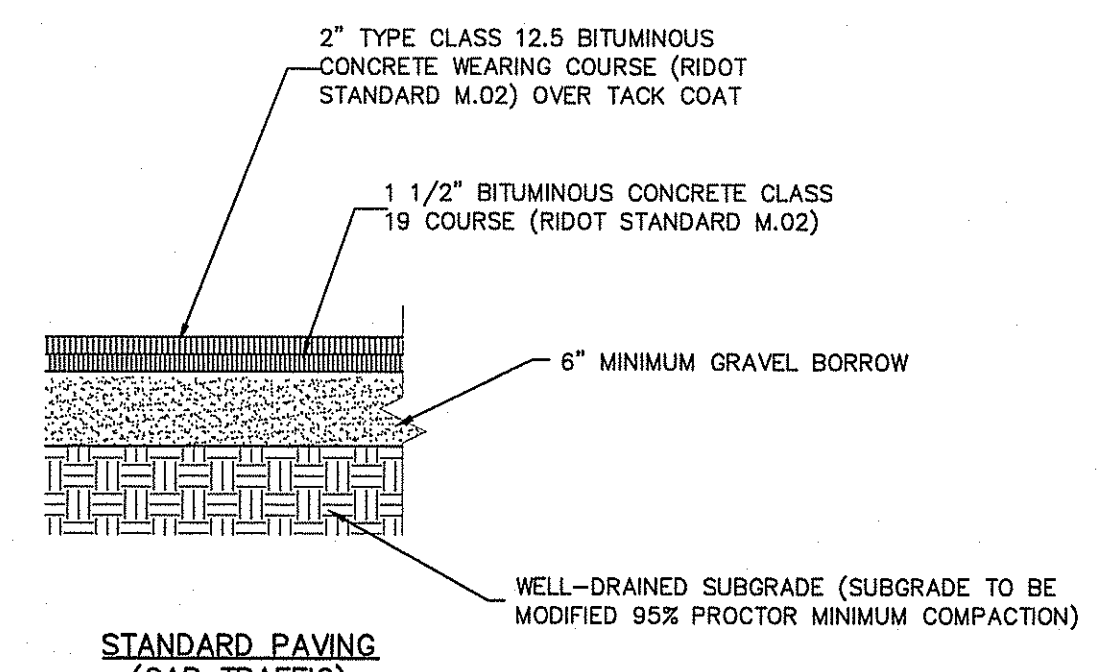
**3' Precast Concrete Transition Curb**  
NOT TO SCALE



**Precast Round Catch Basin**  
NOT TO SCALE

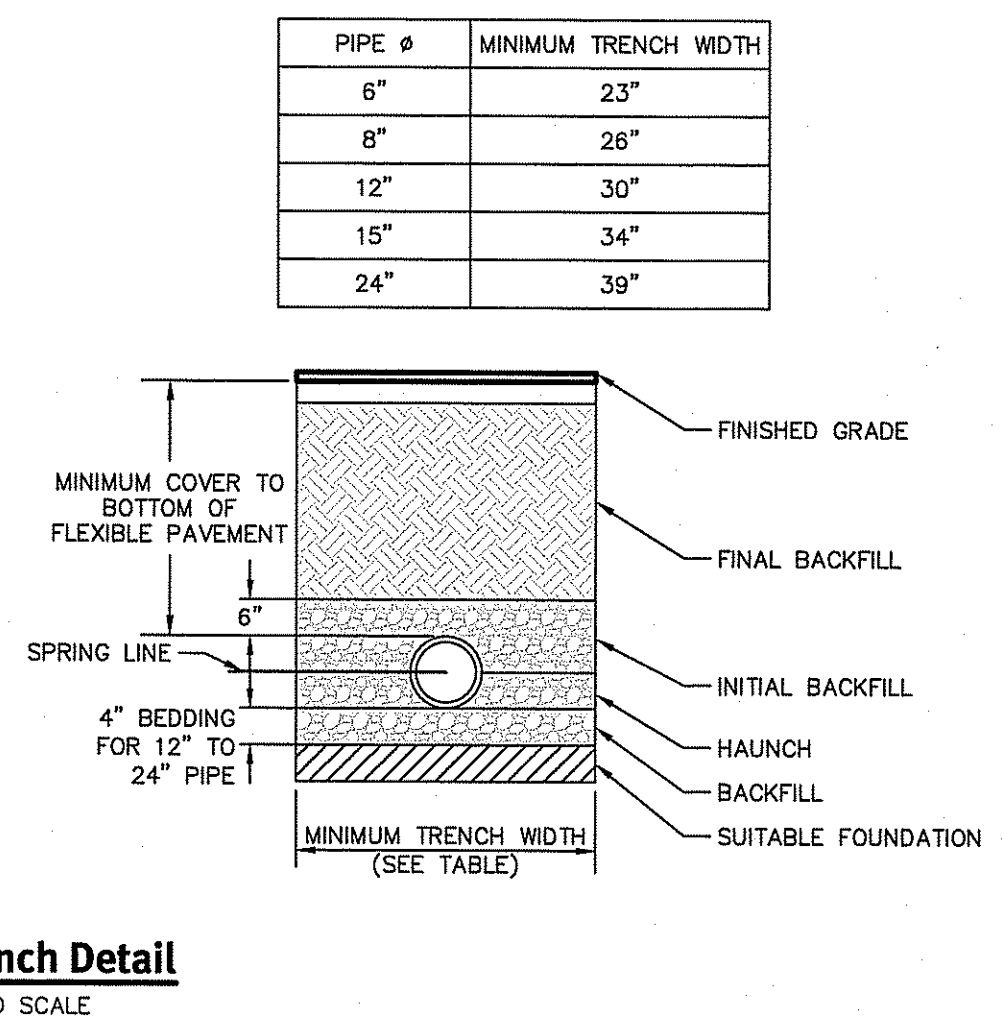
CATCH BASIN DIAMETER (D)	CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED*	
	A	B
4'-0"	5"	6"
5'-0"	6"	7"
6'-0"	7"	8"

- 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 SQUARE INCH/LIN. FOOT (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 SAWCUTTING 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. 4.2.2).
  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.



**Typical Pavement Section**  
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" PIPE AND 24" OF COVER FOR 54"-60" PIPE. MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.



**HDPE Trench Detail**  
NOT TO SCALE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED MAY 10 2012 FILE # 16-0-239  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

**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  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL

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The contractor is responsible for all of the means, methods, materials, equipment, and OSHA compliance in the implementation of this plan and design.

1	3/21/2017	08/24/2017	08/24/2017	08/24/2017	08/24/2017	08/24/2017	08/24/2017	08/24/2017	08/24/2017
No.	Date	Description	By:	Design By:	D.A.R.	D.A.R.	D.A.R.	D.A.R.	D.A.R.

**Detail Sheet - 1**  
84 Old Tower Hill Road  
South Kingstown, Rhode Island 02879  
Bluedog Capital Partners, LLC  
One Custom House Street Ste 4, Providence, RI 02903  
tel 401-421-9200  
SHEET 8 OF 10

**GENERAL NOTES:**

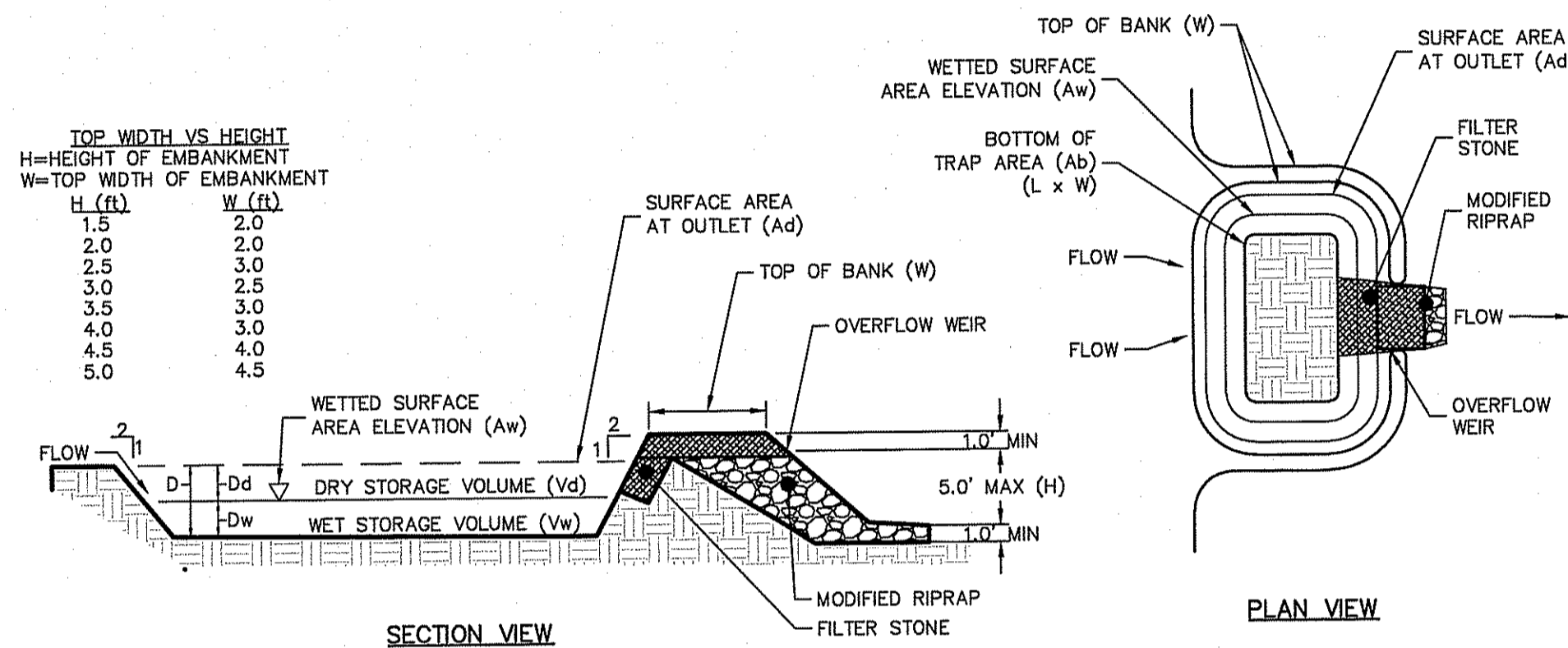
1. THE TEMPORARY SEDIMENT TRAP SHALL MEET ALL REQUIREMENTS FOR TEMPORARY SEDIMENT TRAPS OUTLINED IN THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK (LATEST REVISION) SECTION SIX: SEDIMENT CONTROL MEASURES
2. THE TEMPORARY SEDIMENT TRAP SHALL HAVE AN INITIAL STORAGE COLUMN OF 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA.
3. ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER EXCEPT FOR THE EXCAVATED WET STORAGE AREA WHERE SLOPES SHALL NOT EXCEED 1.5:1.
4. THE OUTLET SHALL BE LOCATED AT THE MOST DISTANT HYDRAULIC POINT FROM THE INLET.
5. THE OUTLET CONSISTS OF A PERVIOUS STONE DIKE WITH A CORE OF MODIFIED RIPRAP AND FACED ON THE UPSTREAM SIDE WITH STONE.
6. TEMPORARY SEDIMENT TRAPS MUST OUTLET ONTO STABILIZED GROUND.
7. MAXIMUM HEIGHT OF A TEMPORARY SEDIMENT TRAP EMBANKMENT IS LIMITED TO 5 FEET.
8. SIDE SLOPES OF THE EMBANKMENT SHALL BE 2:1 OR FLATTER.
9. MODIFIED RIPRAP: SHALL MEET THE REQUIREMENTS OF RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SUBSECTION M.10.03.2.
10. FILTER STONE: SHALL MEET THE REQUIREMENTS OF RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SUBSECTION M.01.03 TABLE 1, COLUMN V FILTER STONE.

**INSPECTION, MAINTENANCE, AND REMOVAL REQUIREMENTS:**

1. INSPECT THE TEMPORARY SEDIMENT TRAP AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.25 INCH OR GREATER.
2. CHECK THE OUTLET TO ENSURE THAT IT IS STRUCTURALLY SOUND AND HAS NOT BEEN DAMAGED BY EROSION OR CONSTRUCTION EQUIPMENT.
3. CHECK FOR SEDIMENT ACCUMULATION AND FILTRATION PERFORMANCE.
4. WHEN SEDIMENTS HAVE ACCUMULATED TO ONE HALF THE MINIMUM REQUIRED VOLUME OF THE WET STORAGE, DEWATER THE TRAP AS NEEDED, REMOVE SEDIMENTS AND RESTORE THE TRAP TO ITS ORIGINAL DIMENSIONS.
5. DISPOSE OF THE SEDIMENT REMOVED FROM THE BASIN IN A SUITABLE AREA.
6. THE TEMPORARY SEDIMENT TRAP MAY BE REMOVED AFTER THE CONTRIBUTING DRAINAGE AREA IS STABILIZED.

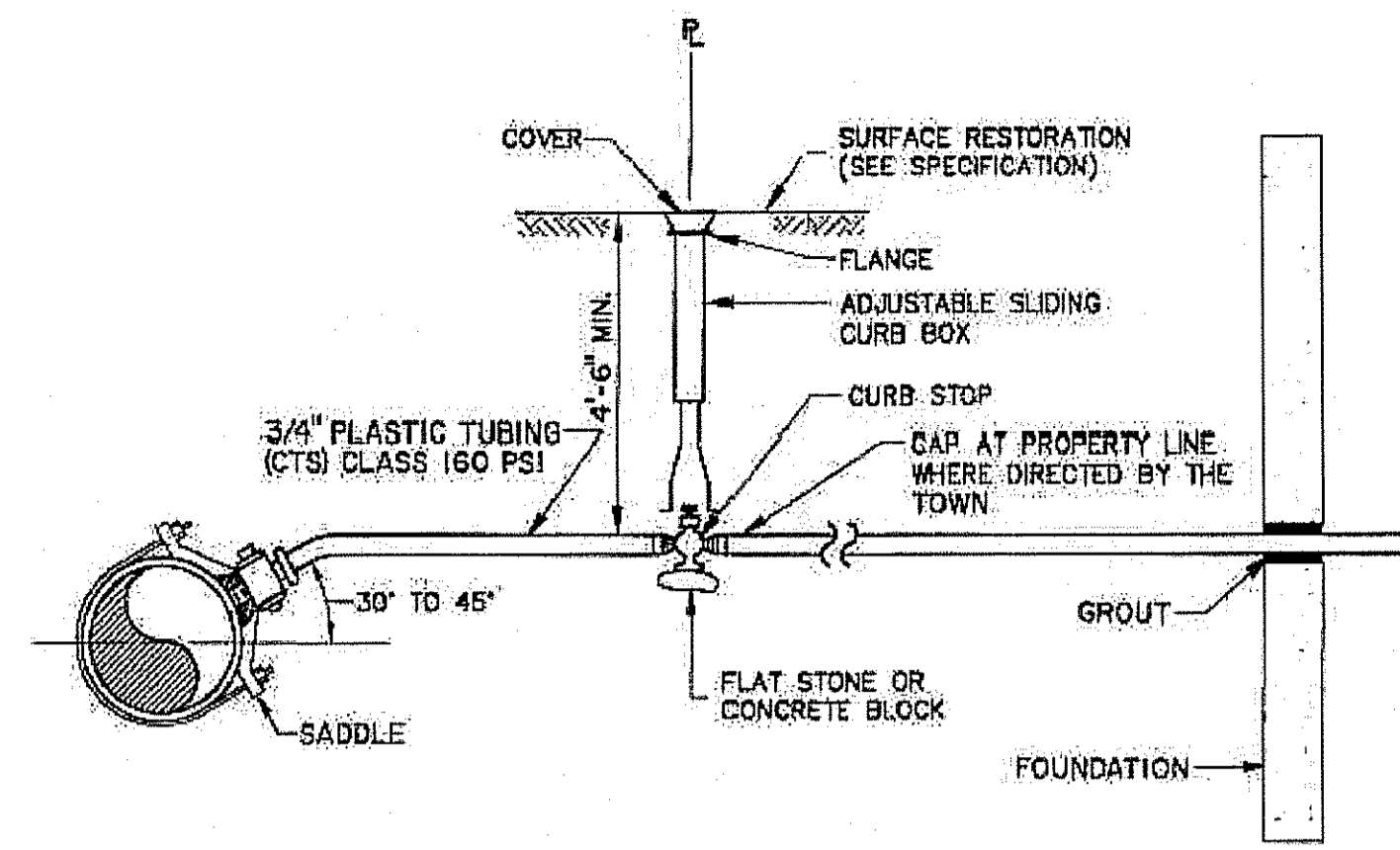
**INSTALLATION NOTES:**

1. CLEAR, GRUB AND STRIP ANY VEGETATION AND ROOT MAT FROM ANY PROPOSED EMBANKMENT AND OUTLET AREA.
2. REMOVE STONES AND ROCKS WHOSE DIAMETER IS GREATER THAN THREE (3) INCHES AND OTHER DEBRIS.
3. EXCAVATE WET STORAGE AND CONSTRUCT THE EMBANKMENT AND/OR OUTLET AS NEEDED TO ATTAIN THE NECESSARY STORAGE REQUIREMENTS.
4. USE ONLY FILL MATERIAL FOR THE EMBANKMENT THAT IS FREE FROM EXCESSIVE ORGANICS, DEBRIS, LARGE ROCKS (OVER SIX (6) INCHES) OR OTHER UNSUITABLE MATERIALS. COMPACT THE EMBANKMENT IN 9-INCH LAYERS BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
5. STABILIZE THE EARTHEN EMBANKMENT USING ANY OF THE FOLLOWING MEASURES: SEEDING FOR TEMPORARY VEGETATION COVER; SEEDING FOR PERMANENT VEGETATIVE COVER; OR SLOPE PROTECTION, IMMEDIATELY AFTER INSTALLATION.



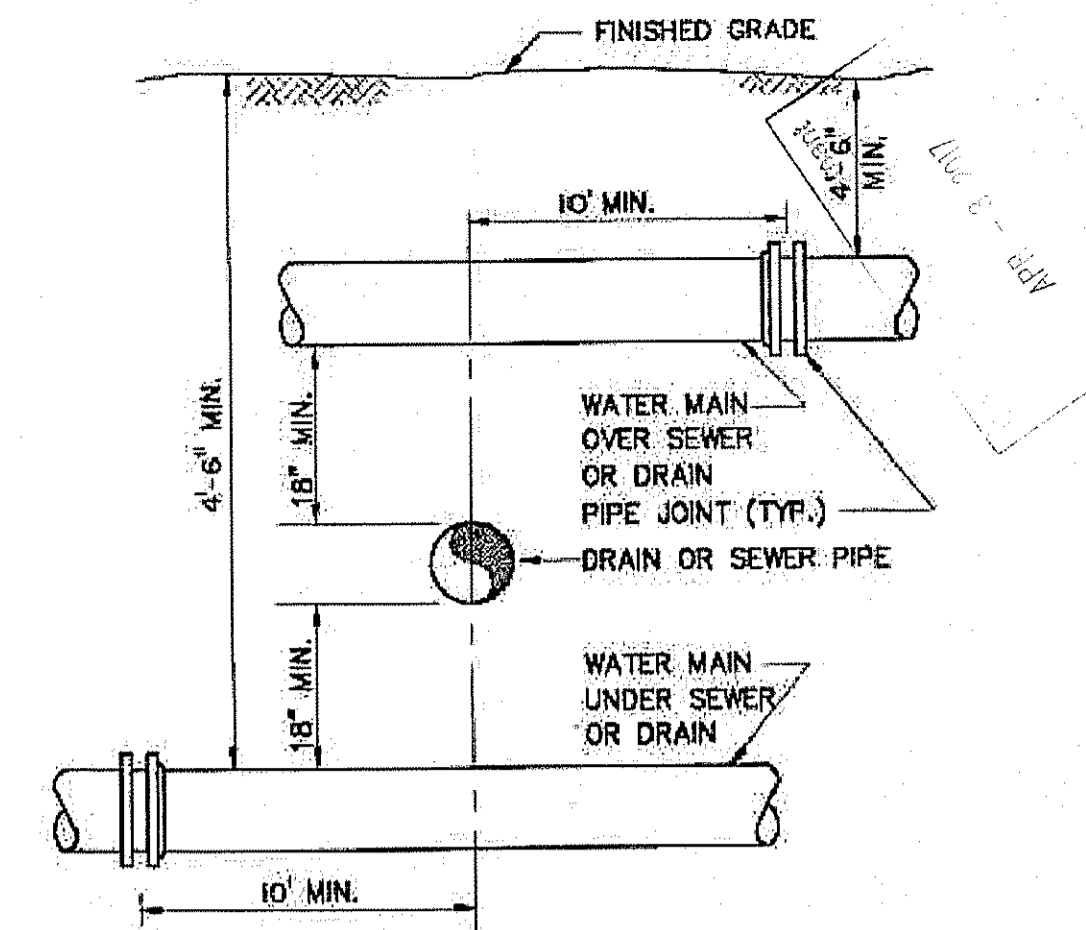
**Temporary Sediment Trap Detail**

NOT TO SCALE



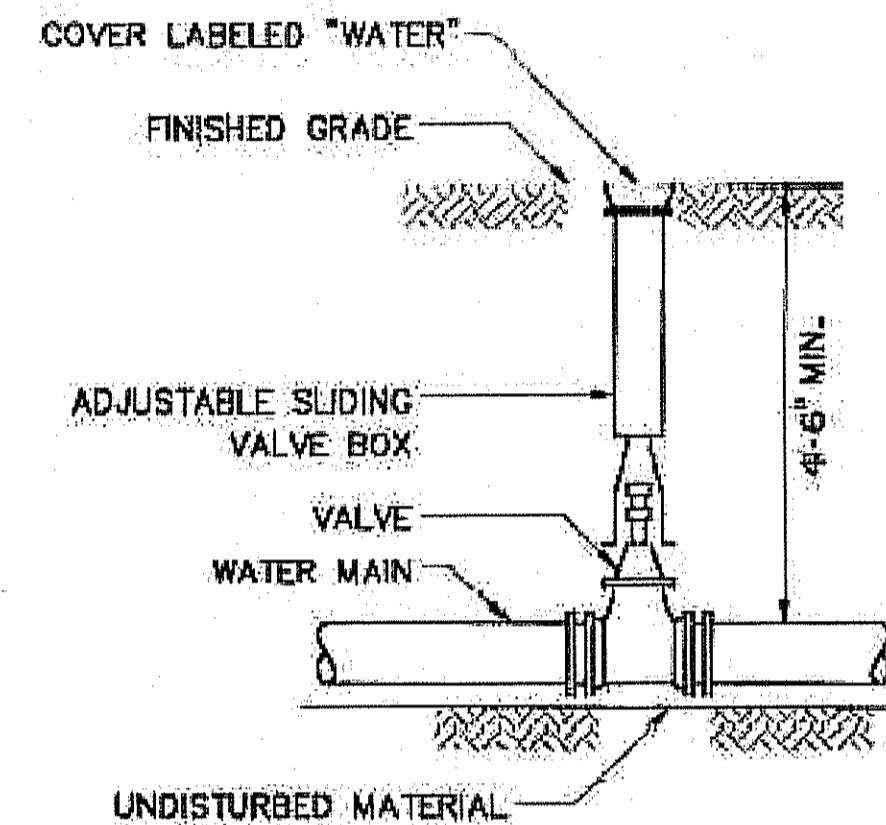
**South Kingstown Water Service Detail**

NOT TO SCALE



**South Kingstown Water Crossing Detail**

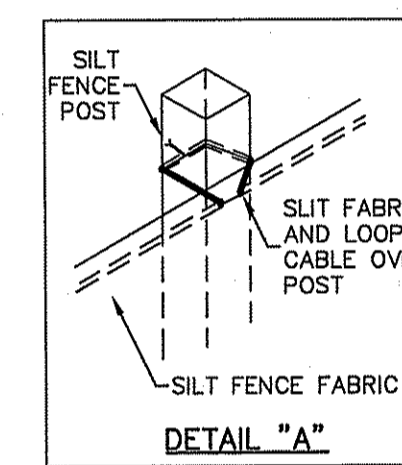
NOT TO SCALE



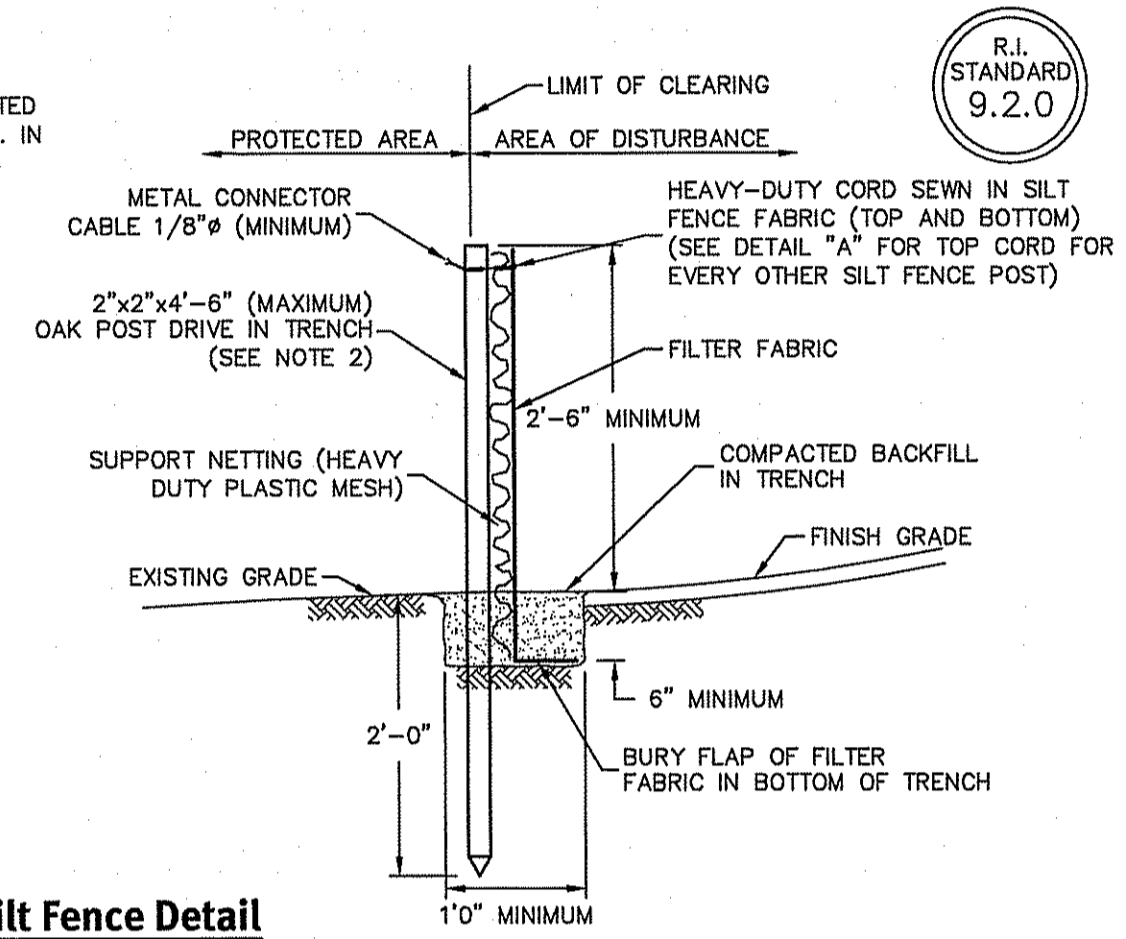
**South Kingstown Water Valve and Box Detail**

NOT TO SCALE

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

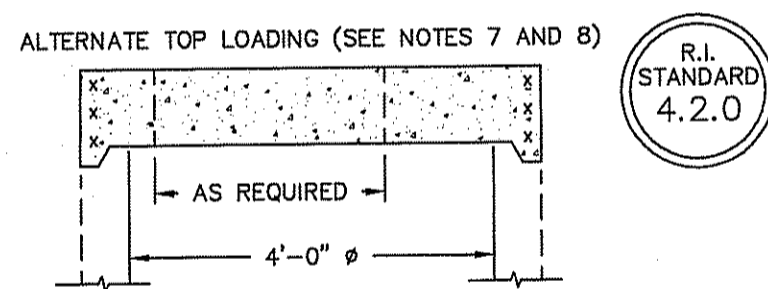


**DETAIL "A"**

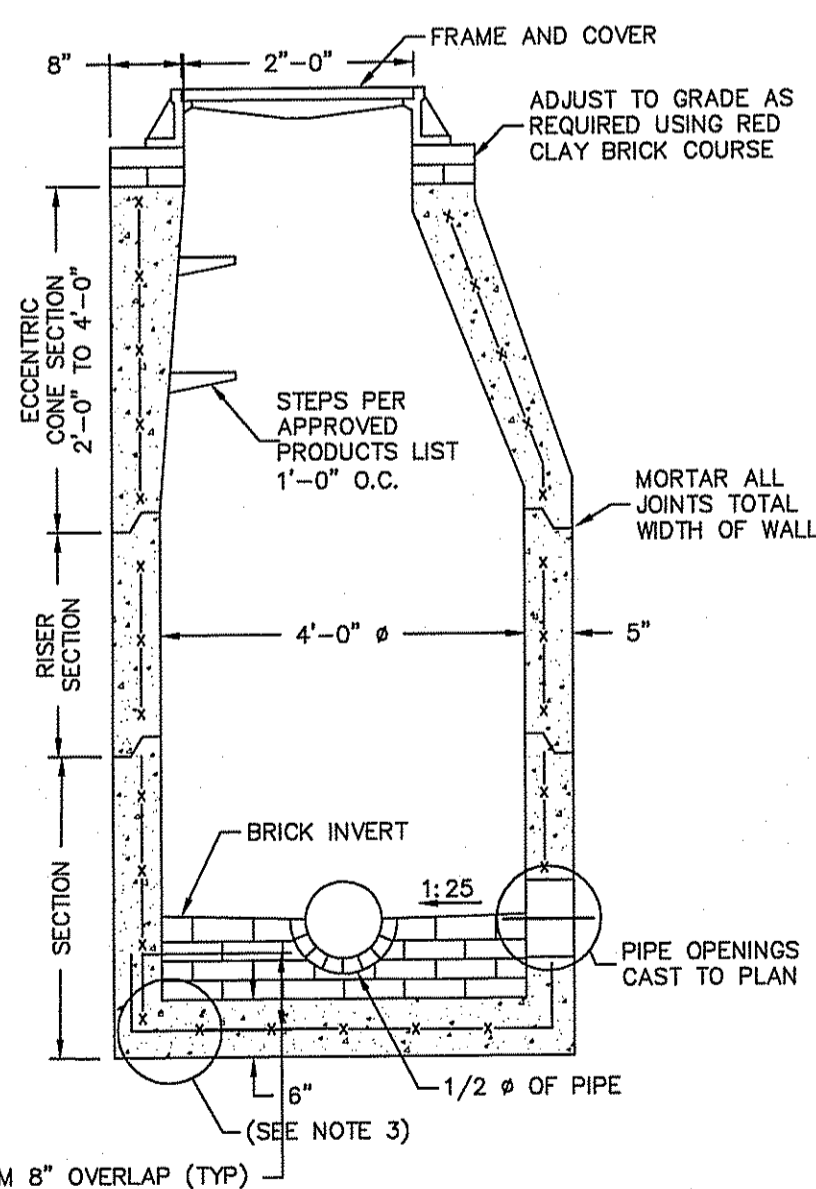


**Silt Fence Detail**

NOT TO SCALE



R.I. STANDARD 4.2.0



- NOTES:**
1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
  2. CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED = 0.12 SQUARE INCH/LIN. FOOT MINIMUM.
  3. STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQUARE INCH/LIN. FOOT (BOTH WAYS).
  4. ONE POUR MONOLITHIC BASE SECTION.
  5. ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAWCUTTING 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**

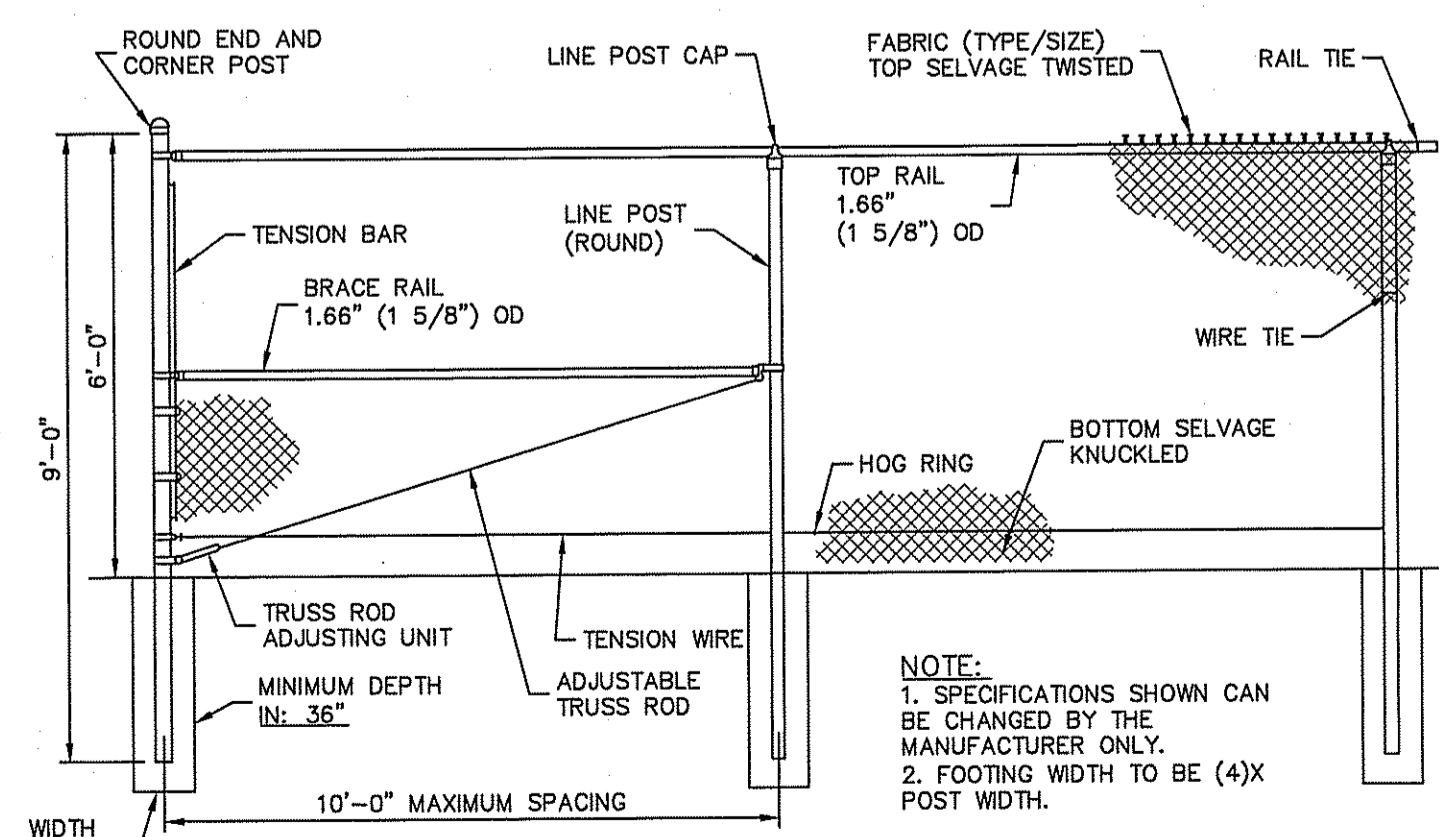
NOT TO SCALE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED MAY 10 2017 FILE # 16-0289  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



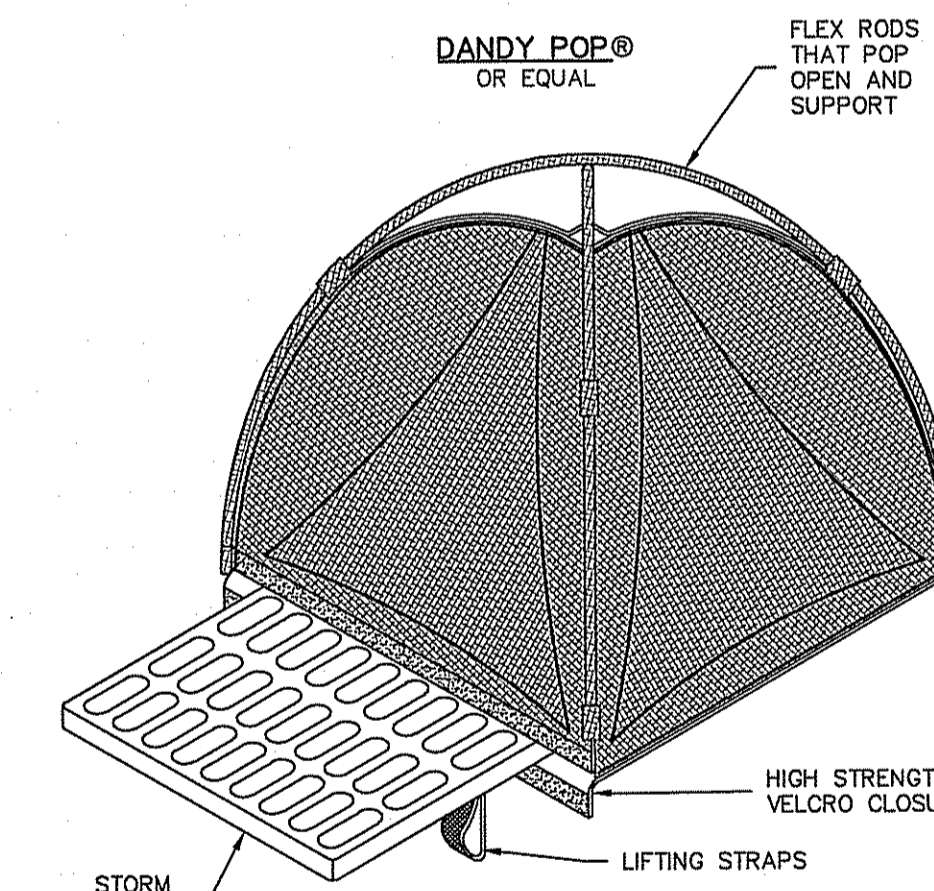
**Temporary Diversion Channel**

NOT TO SCALE



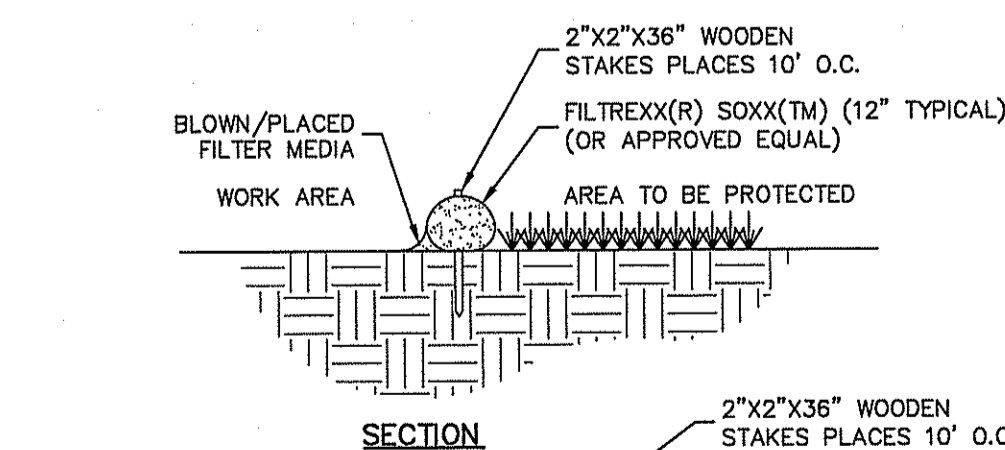
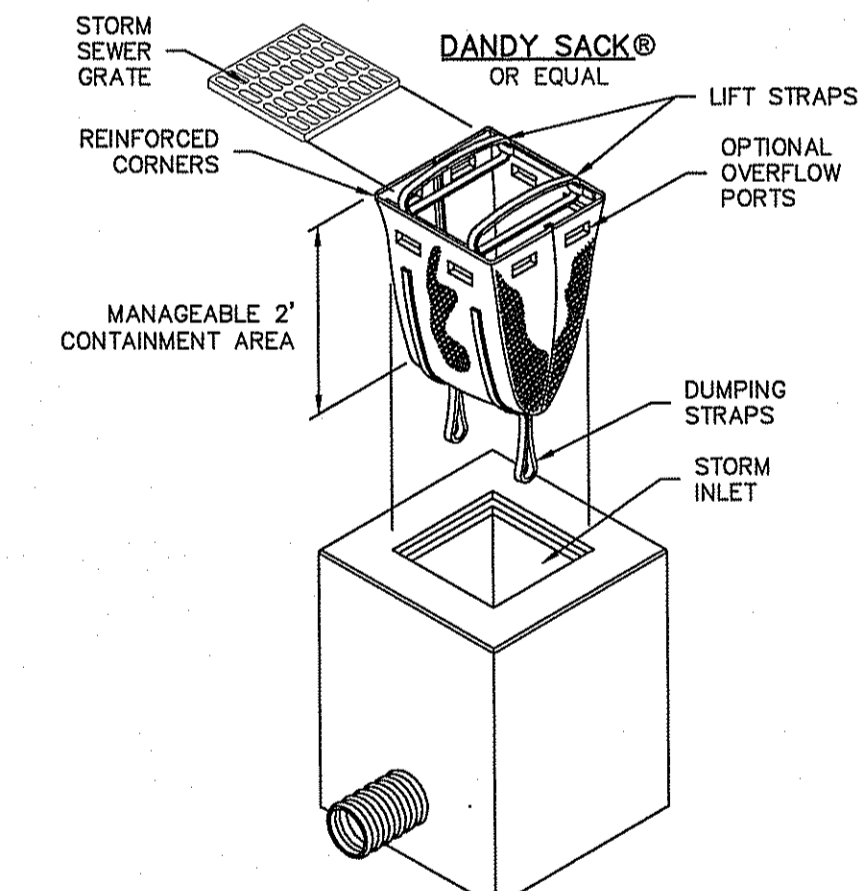
**Typical Fence Section**

NOT TO SCALE



**Inlet Sediment Control Devices**

NOT TO SCALE

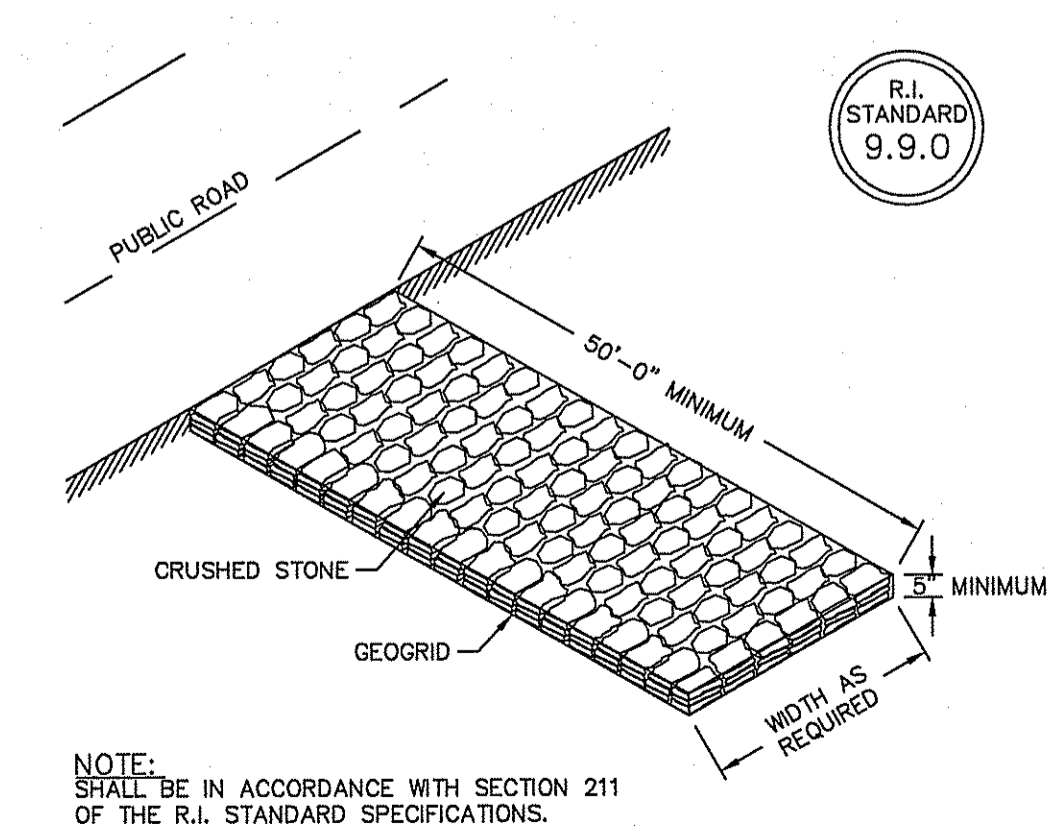


**NOTES:**

1. ALL MATERIAL TO MEET FILTREXX(R) SPECIFICATIONS
2. FILTER MEDIA(TM) FILL TO MEET APPLICATION REQUIREMENTS.
3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER
4. STAKES ARE NOT TO BE USED IN PAVEMENT AREAS.
5. SELF WEIGHT OF FILTREXX SYSTEM IS ADEQUATE TO PREVENT SYSTEM OF MOVEMENT ONCE POSITIONED ALONG AREA SHOWN IN PLAN ABOVE.
6. CONTRACTOR TO PLACE FILTREXX SEDIMENT CONTROL OR EQUAL AROUND ALL CURB INLET LOCATIONS AS SPECIFIED ON PLANS.

**Filtrexx Sediment Control or Approved Equal**

NOT TO SCALE



**Construction Access**

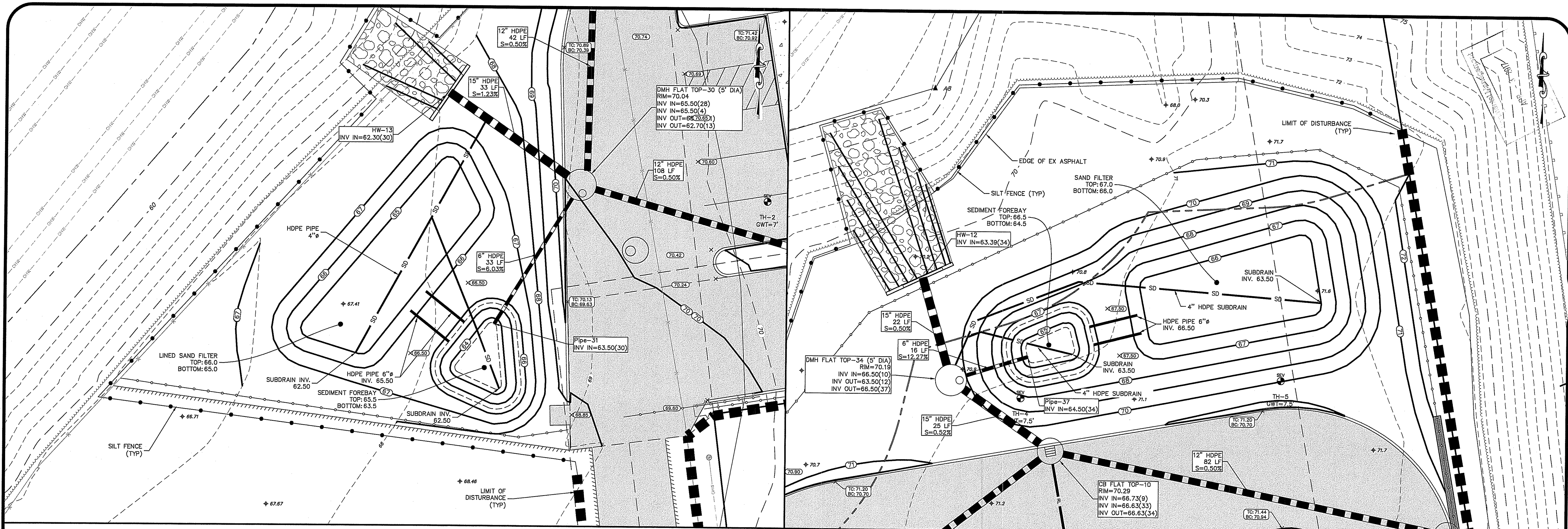
NOT TO SCALE

DAVID A. RUSSO  
No. 1356  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL

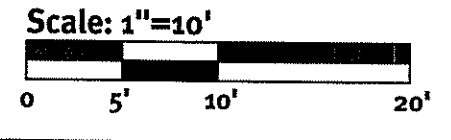
This regulatory submission set shall not be used for construction purposes unless it has been approved by the Contractor and signed by a DiPrete Engineering representative.  
The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA conformance in the implementation of this plan and design.

No.	Date	Description	Design By: D.A.R.
1	5/10/2017	ISSUE SUBMITTAL	
2	11/22/16	ISSUE SUBMITTAL	

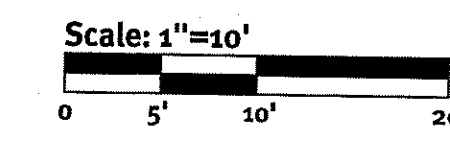
**Detail Sheet - 2**  
**84 Old Tower Hill Road**  
South Kingstown, Rhode Island 02879  
Applicant: **Bluedog Capital Partners, LLC**  
One Custom House Street Ste 4, Providence, RI 02903  
Tel: 401-421-2900



Sand Filter A

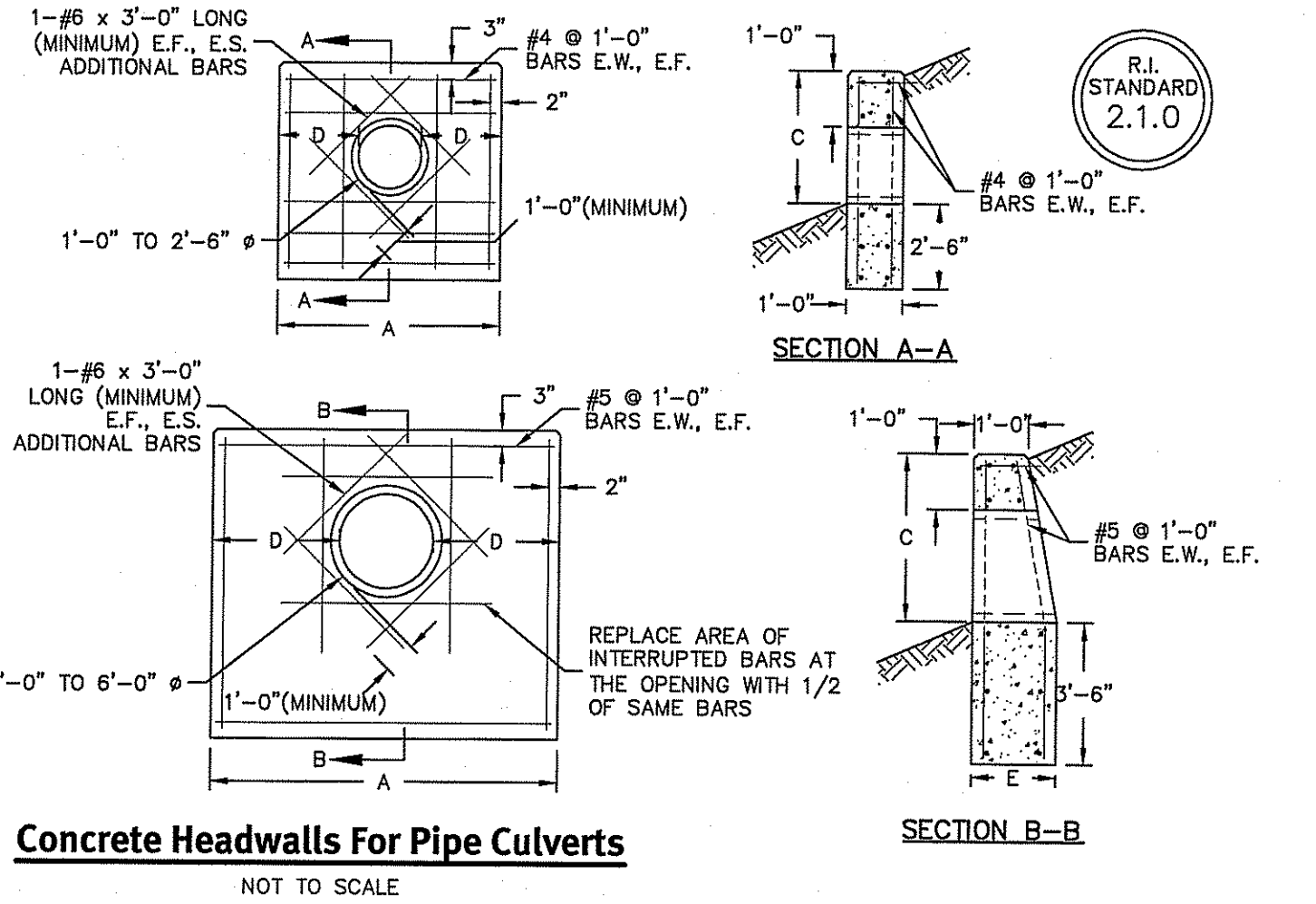


Sand Filter B



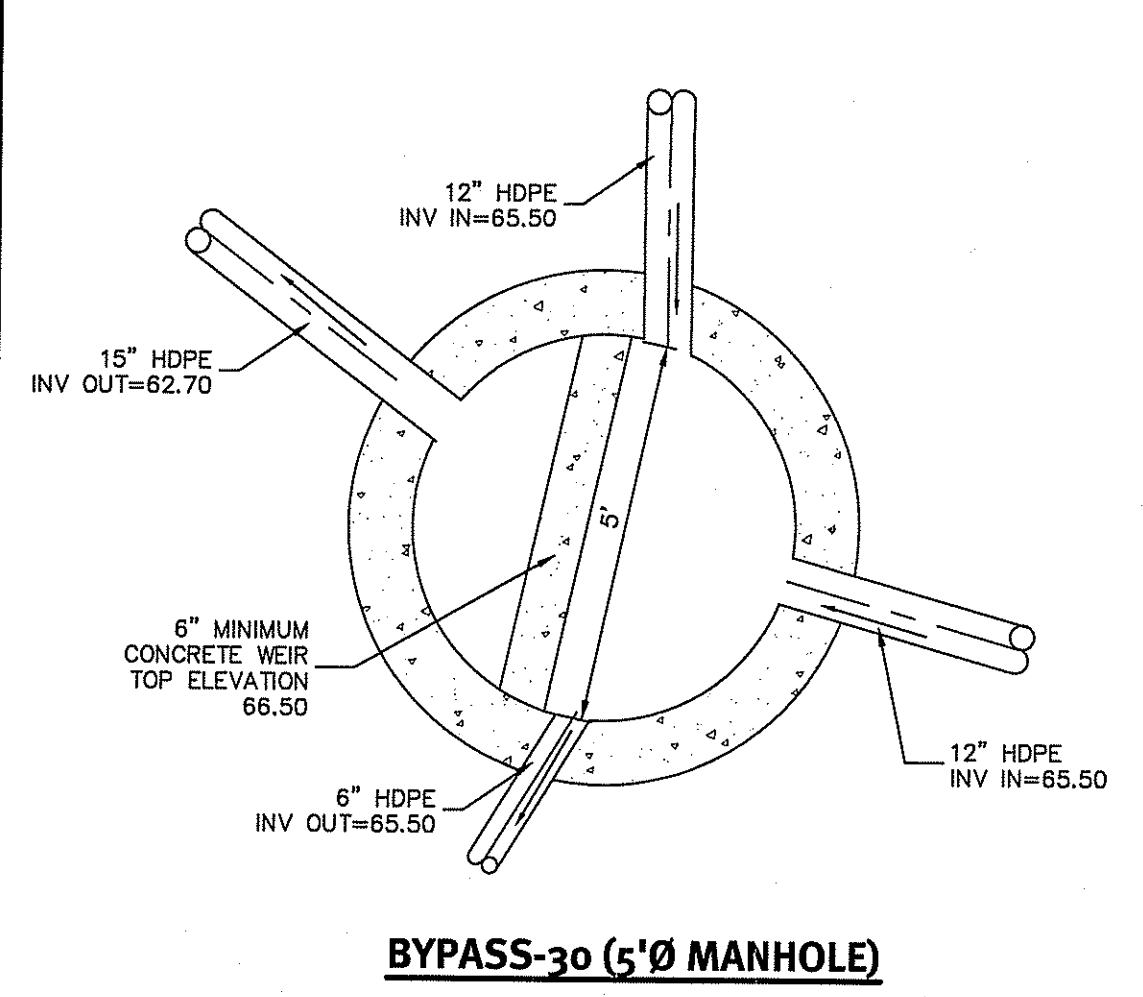
Ø OF PIPE	A	C	D	E	CU. FT. CONCRETE
1'-0"	3'-0"	2'-2"	1'-0"	-	13.2
1'-3"	3'-9"	2'-5"	1'-3"	-	17.2
1'-6"	4'-6"	2'-8"	1'-6"	-	21.5
1'-9"	5'-3"	2'-11"	1'-9"	-	26.0
2'-0"	6'-0"	3'-2"	2'-0"	-	30.9
2'-3"	6'-9"	3'-6"	2'-3"	-	36.5
2'-6"	7'-6"	3'-9"	2'-6"	-	42.0
3'-0"	9'-6"	4'-0"	3'-3"	1'-5"	84.1
3'-6"	11'-0"	4'-6"	3'-9"	1'-7"	111.8
4'-0"	12'-8"	5'-0"	4'-4"	1'-9"	146.5
4'-6"	14'-4"	5'-6"	4'-11"	1'-11"	186.3
5'-0"	16'-0"	6'-0"	5'-6"	2'-1"	232.6
5'-6"	17'-8"	6'-6"	6'-1"	2'-3"	284.9
6'-0"	19'-4"	7'-0"	6'-8"	2'-5"	343.6

- NOTES:
- SHALL BE IN ACCORDANCE WITH SECTION 709 OF THE R.I. STANDARD SPECIFICATIONS.
  - 3/4" CHAMFER ON ALL EXPOSED EDGES.
  - 1'-0" COMPACTED GRAVEL UNDER HEADWALL.
  - ALL REINFORCING BARS SHALL BE EPOXY COATED.



Concrete Headwalls For Pipe Culverts

NOT TO SCALE



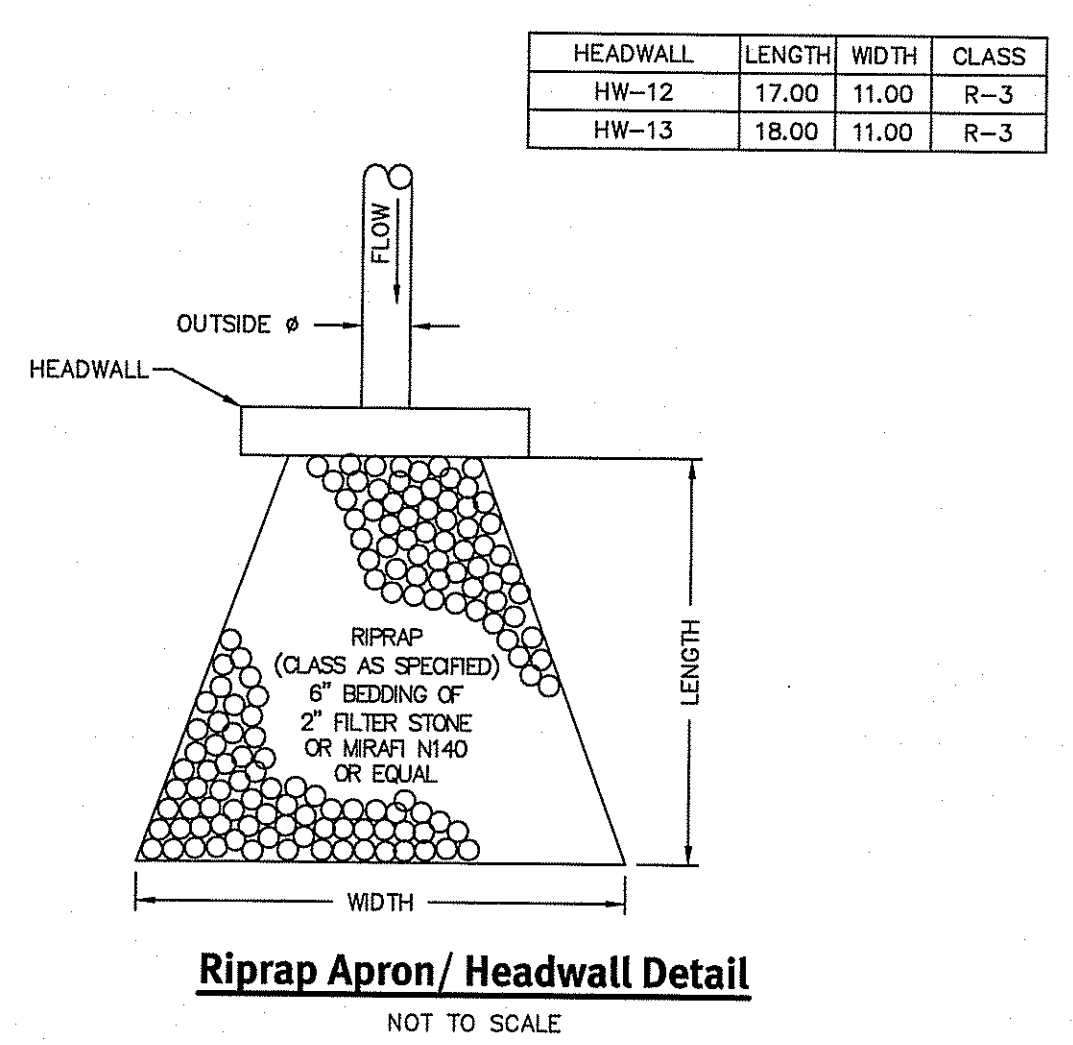
BYPASS-30 (5' Ø MANHOLE)

DESCRIPTION	SF-A	SF-B
AVAILABLE STORAGE ELEVATION	66.50	67.50
100 YEAR STORM ELEVATION	66.84	67.37
10 YEAR STORM ELEVATION	66.64	67.22
1 YEAR STORM ELEVATION	66.51	67.04
FINISHED GRADE	65.00	66.00
TOP SOIL DEPTH	0.5'	0.5'
SAND DEPTH	1.5'	1.5'
UNDERDRAIN OUTLET ELEVATION	62.50	63.50
BOTTOM OF SAND	63.00	64.00
SEASONAL HIGH GWT ELEVATION	61.5	64.0
SOIL EVALUATION	TH-2	TH-5

NOTE: REFER TO THE LANDSCAPE PLAN FOR SAND FILTER PLANTINGS. PLANTING TO INCLUDE A VARIETY OF SWITCH GRASSES IN ACCORDANCE WITH APPENDIX B OF THE RHODE ISLAND STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL, CURRENT ADITION.

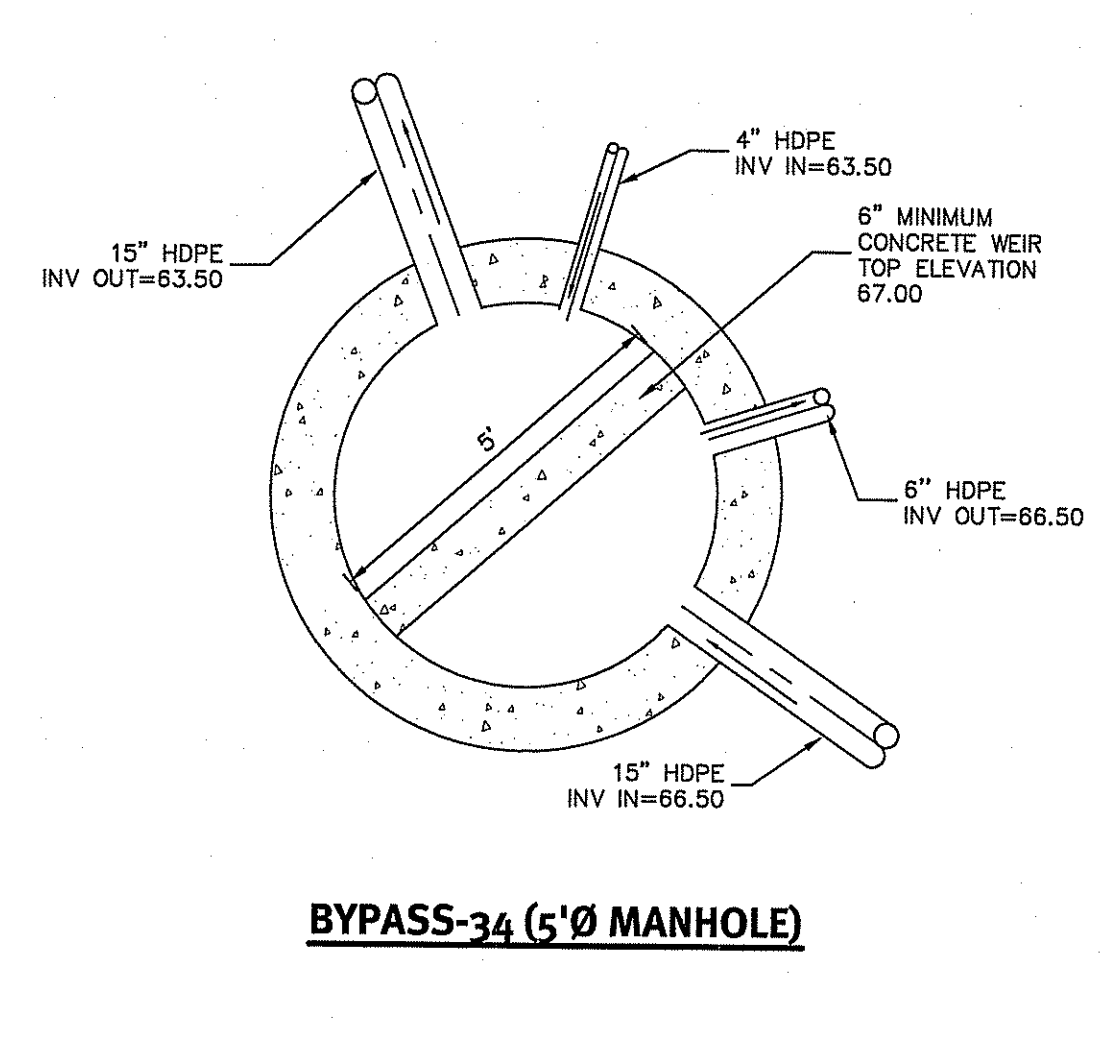
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
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DATED MAY 18 2017 FILE # 16-0289  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Martin D. Wenzel*

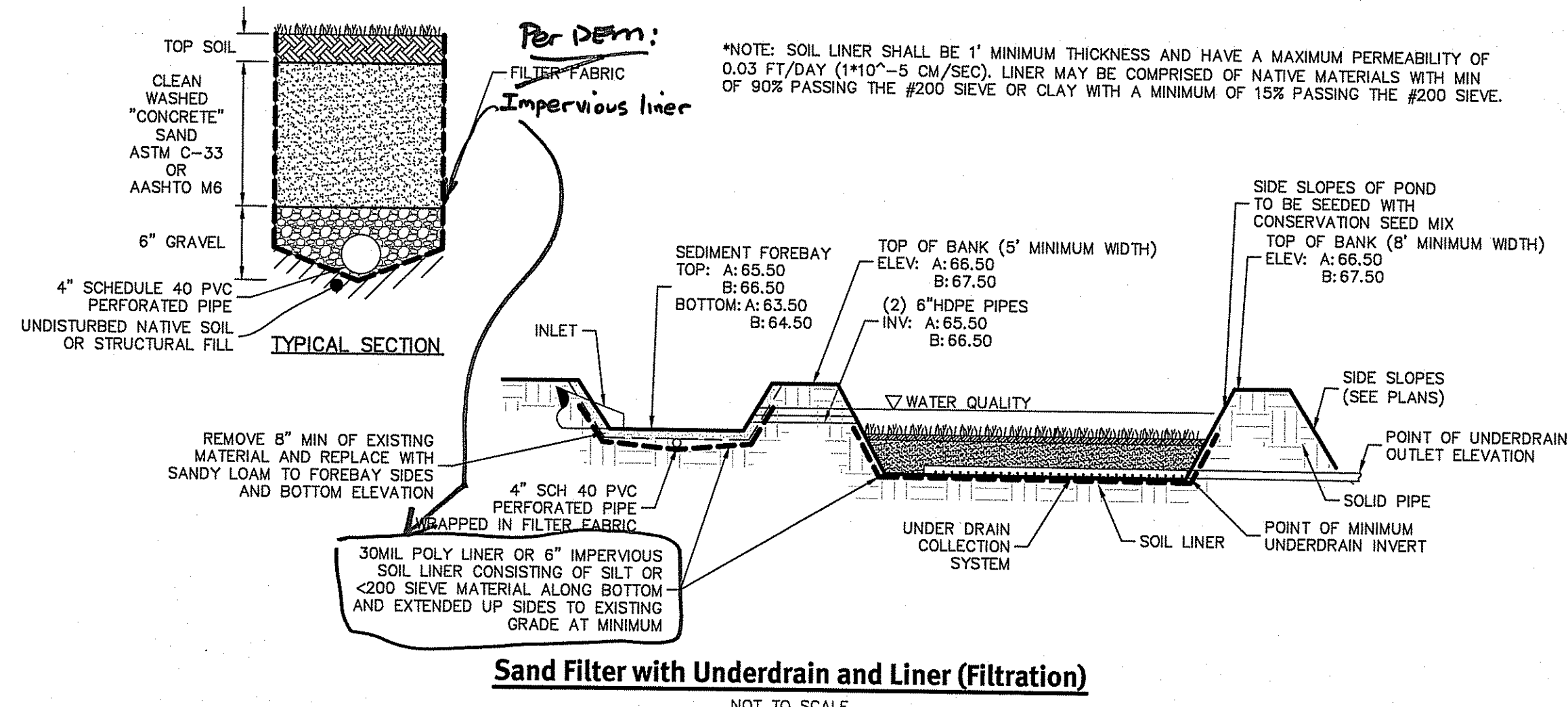


Riprap Apron/ Headwall Detail

NOT TO SCALE



BYPASS-34 (5' Ø MANHOLE)



Sand Filter with Underdrain and Liner (Filtration)

NOT TO SCALE

NO.	DATE	DESCRIPTION	DESIGNED BY	DRAWN BY
1	3/31/2017	ISSUED FOR PERMITS	M.S.C.	M.S.C.
2	10/26/16	ISSUED FOR PERMITS	M.S.C.	M.S.C.