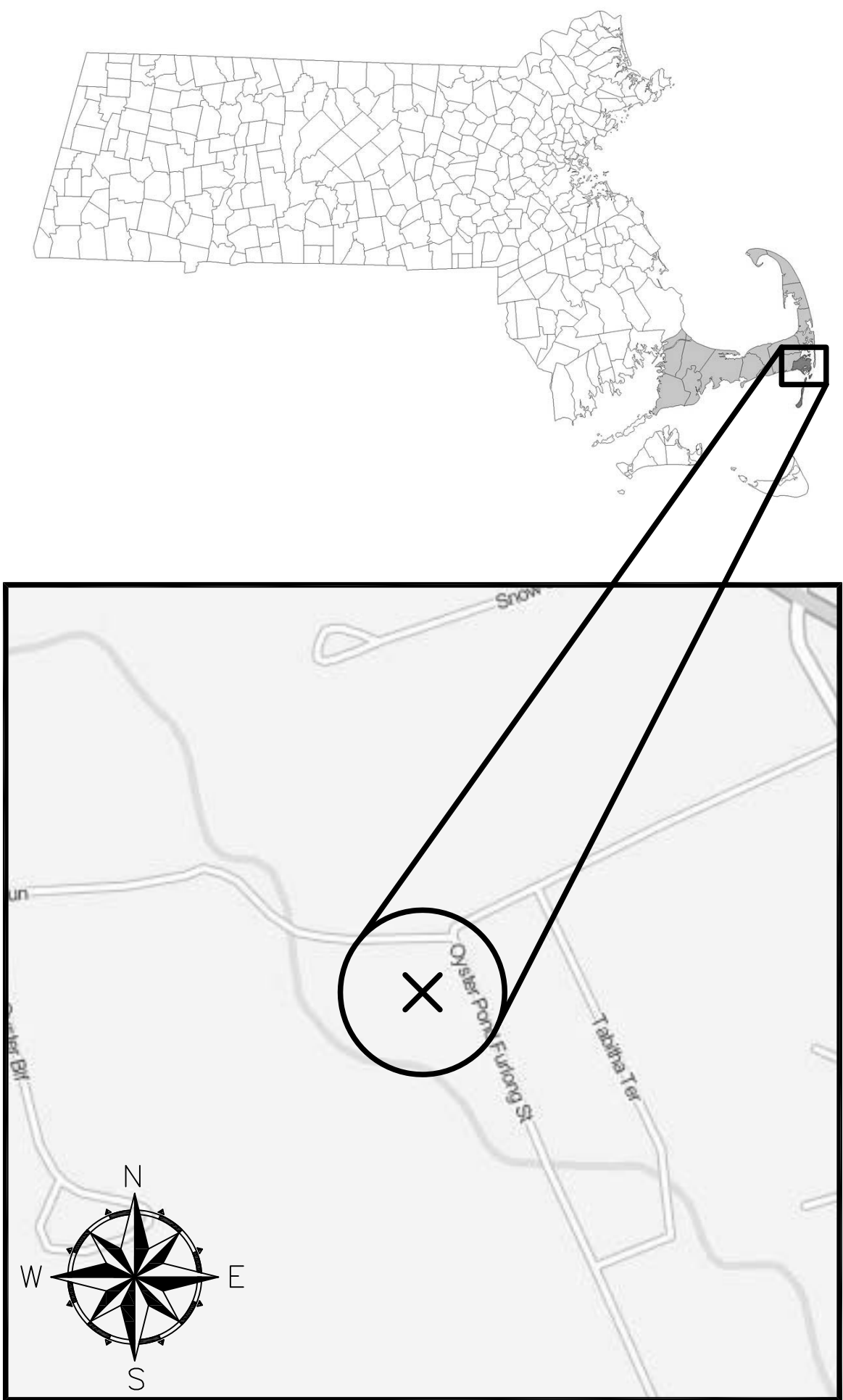


EPA Green Infrastructure Stormwater BMP Retrofit for Two Cape Cod Municipalities A Demonstration and Outreach Project

CHATHAM, MA
NOVEMBER 2015 - CONSTRUCTION AS-BUILTS

CHATHAM, MA
Oyster Pond BMP - Gravel Bioretention Cell,
Oyster Pond Furlong & Absegami Run

<u>SHEET</u>	<u>TITLE</u>
C-1	EXISTING CONDITIONS AND WETLAND BUFFERS
C-2	GRADING PLAN
C-3	DRAINAGE LAYOUT
C-4	UTILITY LAYOUT
C-5	LANDSCAPING AND SURFACE TREATMENTS
C-6	DETAILS
C-7	DETAILS

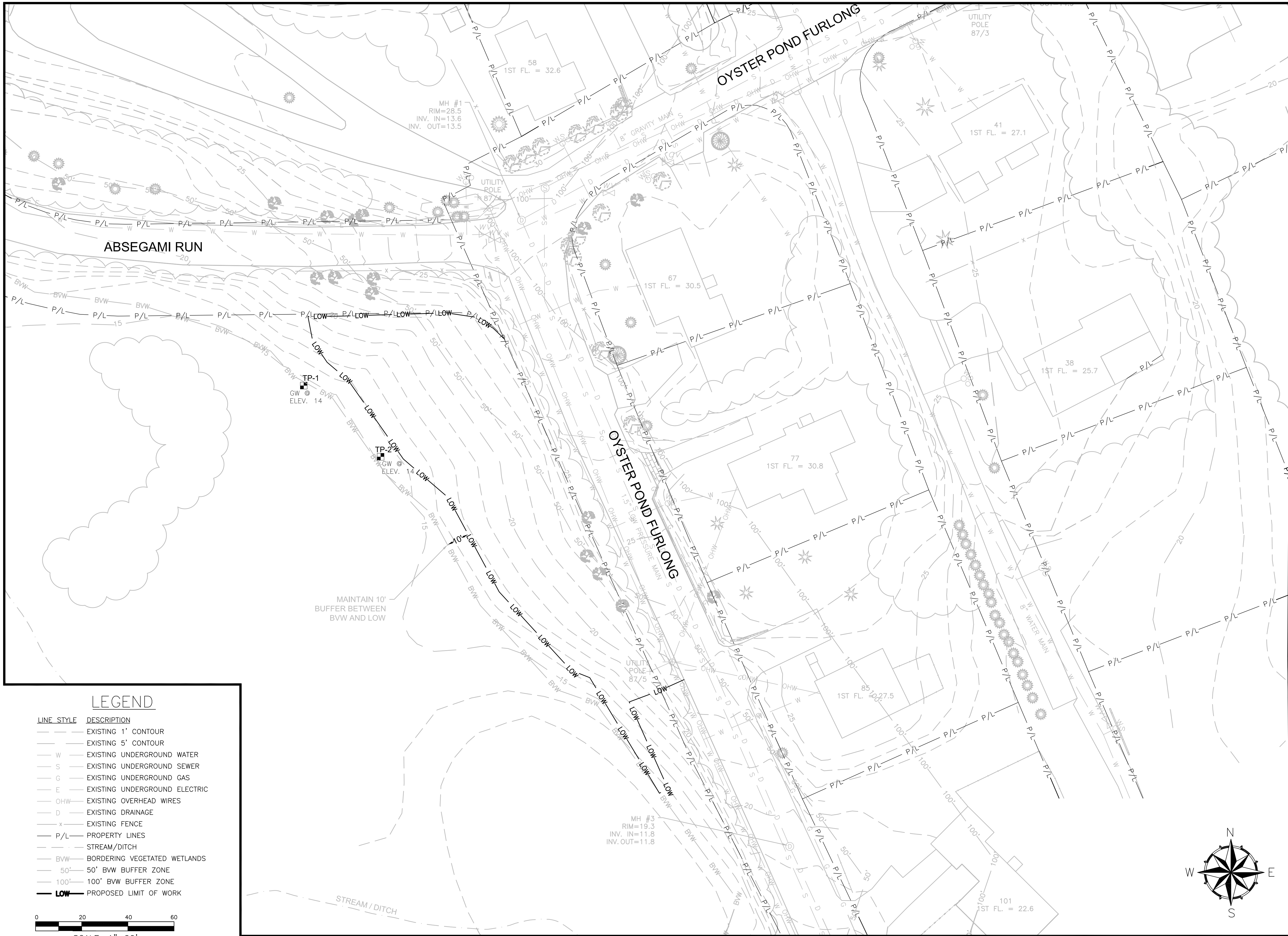


CHATHAM PROJECT
SCALE: 1" = 200'

 **EPA** United States Environmental
Protection Agency, Region 1
5 POST OFFICE SQUARE, SUITE 100
BOSTON, MA 02109

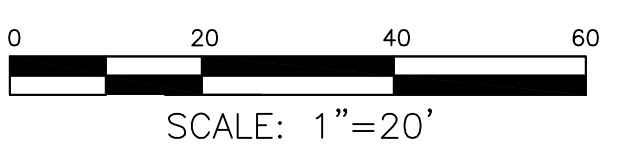
 **WaterVision, LLC**
481 GREAT ROAD, SUITE 3
ACTON, MA 01720

 **COMPREHENSIVE
ENVIRONMENTAL
INCORPORATED**
21 DEPOT STREET
MERRIMACK, NH 03054



LEGEND

- LINE STYLE DESCRIPTION
- EXISTING 1' CONTOUR
 - EXISTING 5' CONTOUR
 - W EXISTING UNDERGROUND WATER
 - S EXISTING UNDERGROUND SEWER
 - G EXISTING UNDERGROUND GAS
 - E EXISTING UNDERGROUND ELECTRIC
 - OHW EXISTING OVERHEAD WIRES
 - D EXISTING DRAINAGE
 - x EXISTING FENCE
 - P/L PROPERTY LINES
 - STREAM/DITCH
 - BVW BORDERING VEGETATED WETLANDS
 - 50' 50' BVW BUFFER ZONE
 - 100' 100' BVW BUFFER ZONE
 - LOW PROPOSED LIMIT OF WORK



- General Notes
1. THE LOCATION OF UNDERGROUND UTILITIES HAVE NOT BEEN VERIFIED OR INSPECTED. THE CONTRACTOR, PRIOR TO COMMENCEMENT OF CONSTRUCTION, SHALL VERIFY THE LOCATION OF ALL UTILITIES AND CONTACT "DIG-SAFE" AT 1-888-344-7233.
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6	As-Builts	11/15
5	Revised Design for Const.	06/15
4	100% Design for Const.	04/15
3	90% Design	03/15
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1	Conceptual	01/15
No.	Revision/Issue	Date

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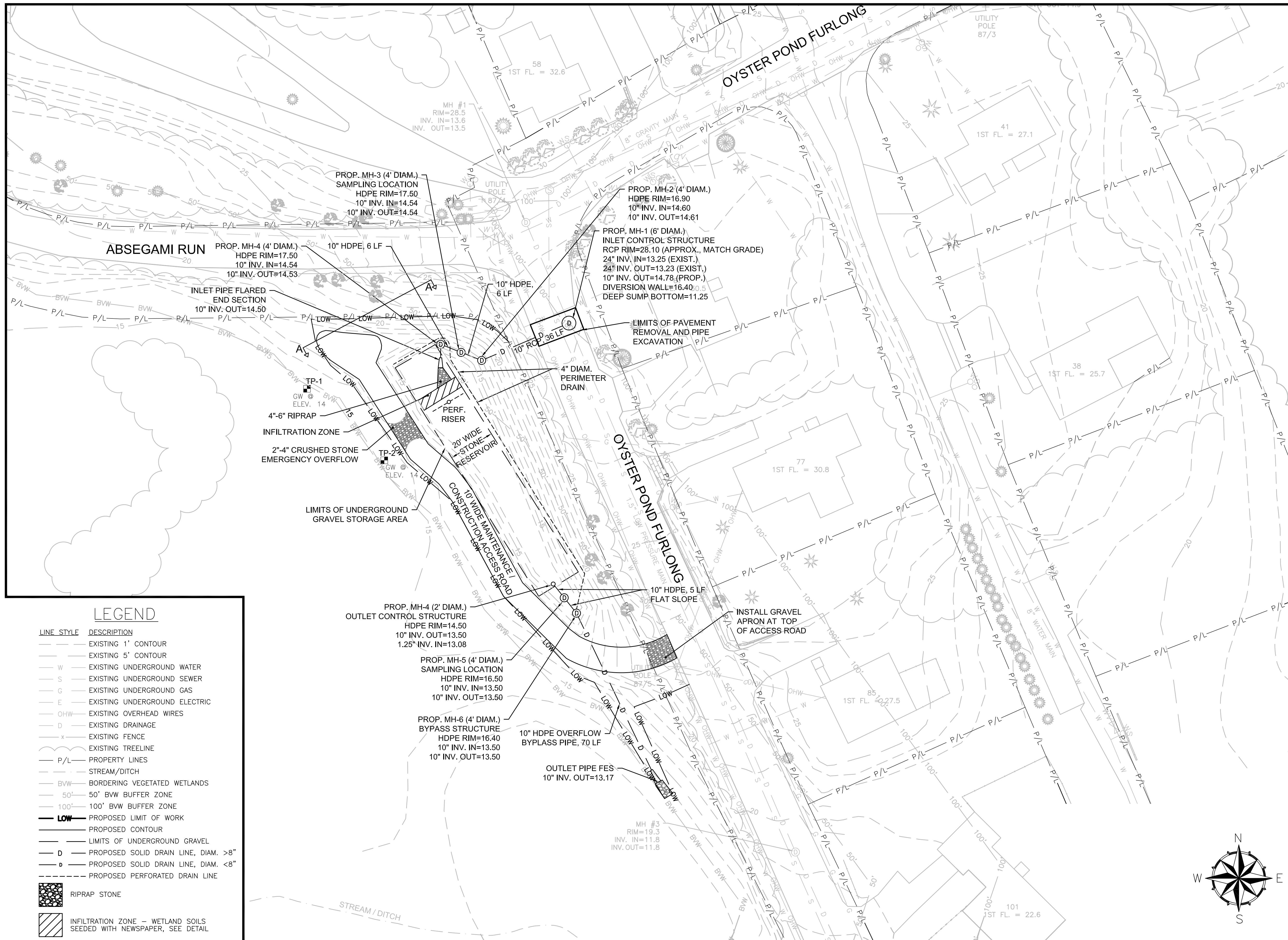
COMPREHENSIVE ENVIRONMENTAL INCORPORATED
21 DEPOT STREET
MERRIMACK, NH 03054

EPA Green Infrastructure Education and Outreach Project

OYSTER POND BMP,
GRAVEL BIORETENTION CELL

Oyster Pond Furlong and Absegami Run, Chatham, MA

Project No.: 677-2 Date: NOVEMBER 2015 Drawn By: NC Checked By: ML Horizontal Datum: NAD88 Vertical Datum: NAVD88	Sheet C-1
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OYSTER POND BMP - DRAINAGE LAYOUT

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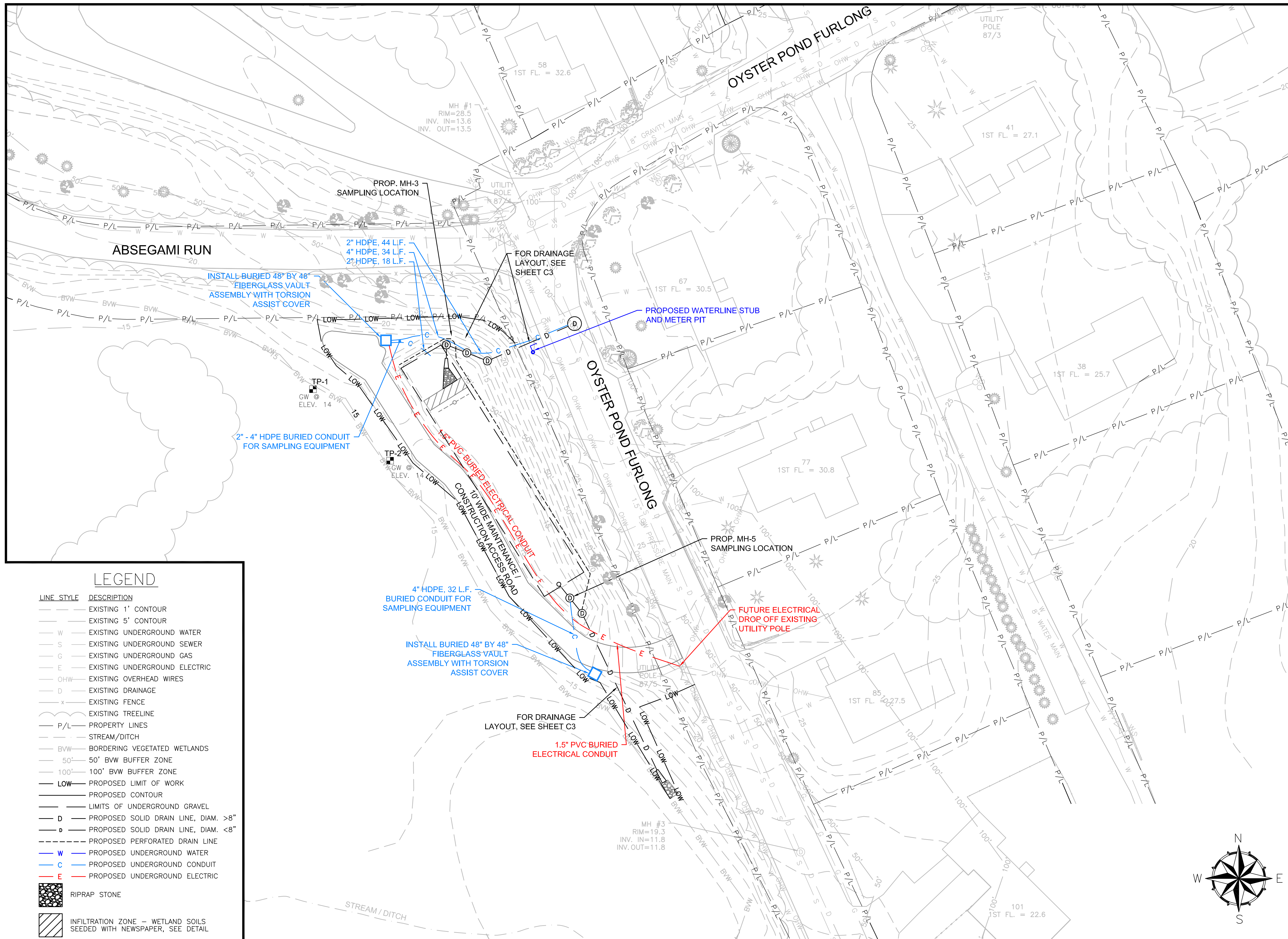
EPA Green Infrastructure Education and Outreach Project

OYSTER POND BMP, GRAVEL BIORETENTION CELL

Oyster Pond Furlong and Absegami Run, Chatham, MA

Project No.: 677-2	Sheet
Date: NOVEMBER 2015	
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C-3



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7	Utility Layout As-Built	11/15
6	Utility Layout	10/15
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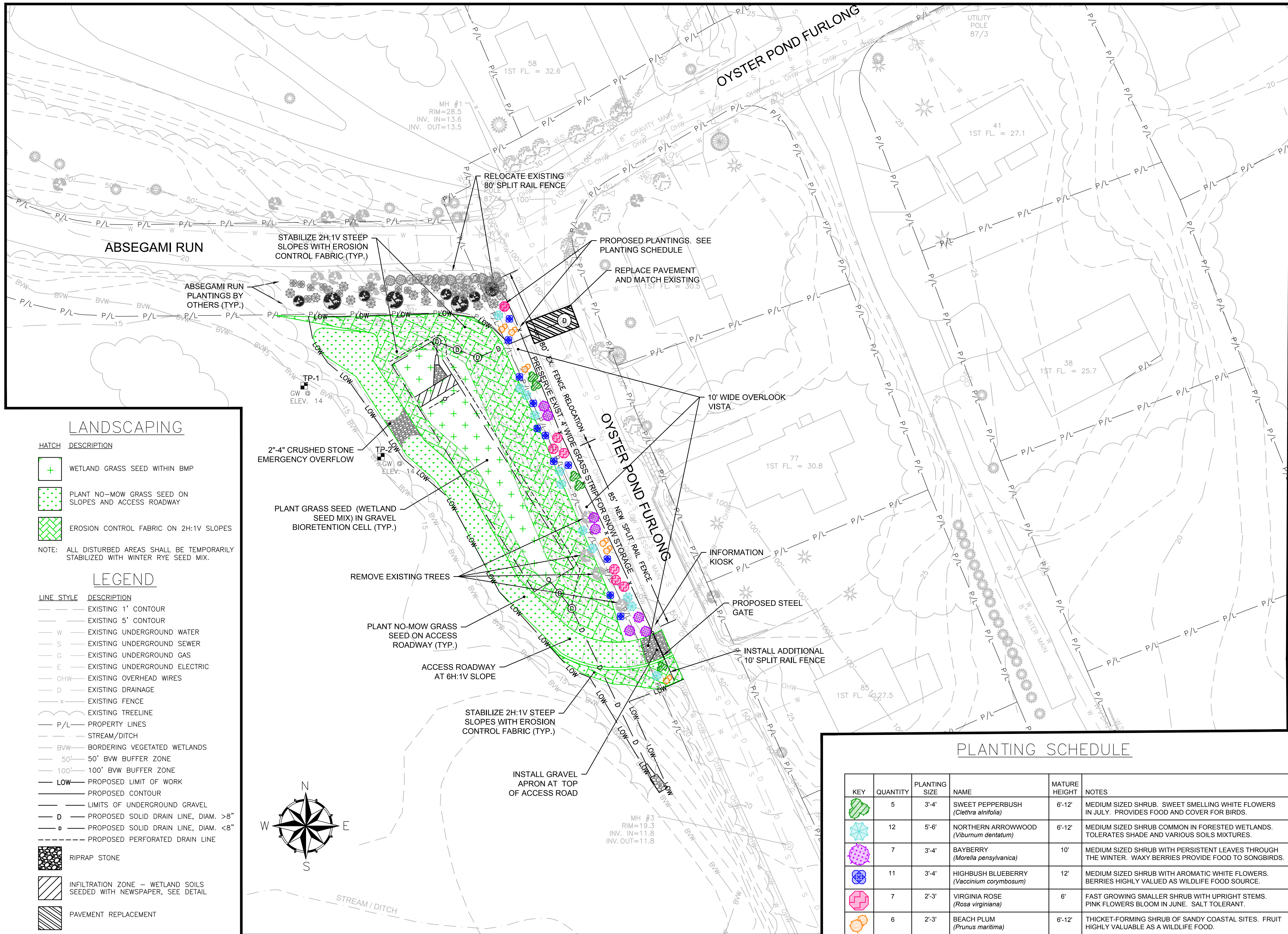
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EPA Green Infrastructure
Education and Outreach Project

OYSTER POND BMP,
GRAVEL BIORETENTION CELL

Oyster Pond Furlong and Absegami
Run, Chatham, MA

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7	Landscaping Design As-Built	11/15
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EPA Green Infrastructure
Education and Outreach Project

OYSTER POND BMP,
GRAVEL BIORETENTION CELL

Oyster Pond Furlong and Absegami
Run, Chatham, MA

Project No.: 677-2
Date: NOVEMBER 2015

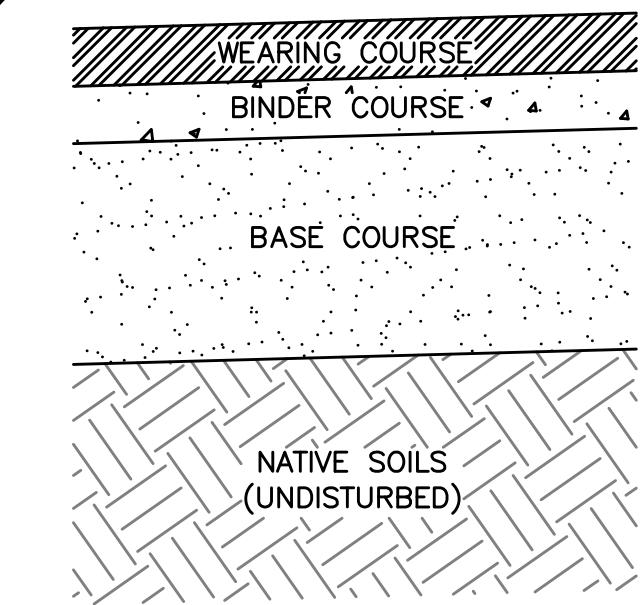
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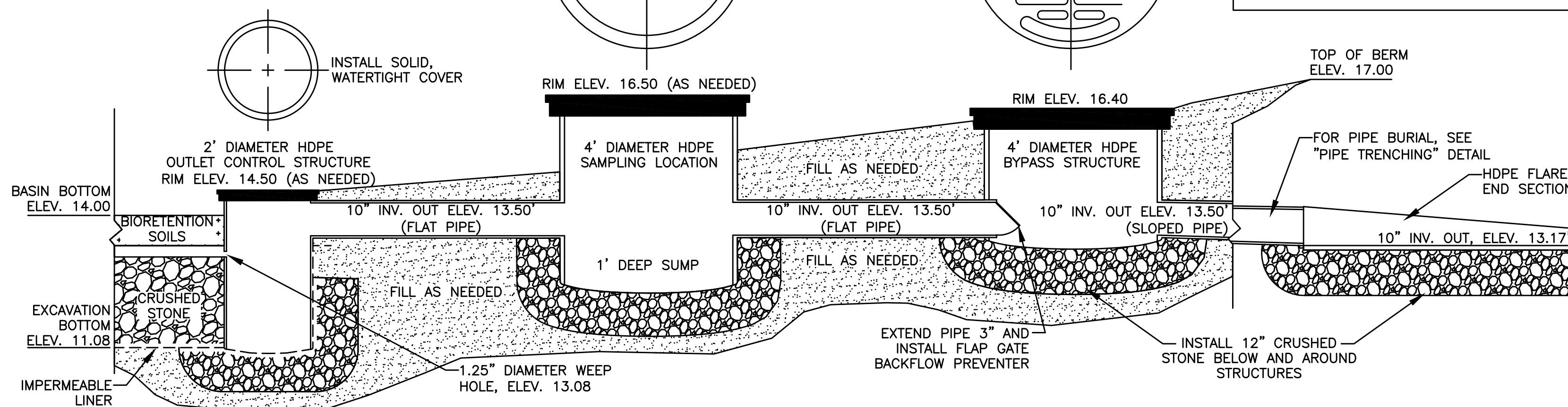
PLANTING SCHEDULE					
KEY	QUANTITY	PLANTING SIZE	NAME	MATURE HEIGHT	NOTES
	5	3'-4'	SWEET PEPPERBUSH (<i>Clethra alnifolia</i>)	6'-12'	MEDIUM SIZED SHRUB. SWEET SMELLING WHITE FLOWERS IN JULY. PROVIDES FOOD AND COVER FOR BIRDS.
	12	5'-6'	NORTHERN ARROWWOOD (<i>Viburnum dentatum</i>)	6'-12'	MEDIUM SIZED SHRUB COMMON IN FORESTED WETLANDS. TOLERATES SHADE AND VARIOUS SOILS MIXTURES.
	7	3'-4'	BAYBERRY (<i>Morella pensylvanica</i>)	10'	MEDIUM SIZED SHRUB WITH PERSISTENT LEAVES THROUGH THE WINTER. WAXY BERRIES PROVIDE FOOD TO SONGBIRDS.
	11	3'-4'	HIGHBUSH BLUEBERRY (<i>Vaccinium corymbosum</i>)	12'	MEDIUM SIZED SHRUB WITH AROMATIC WHITE FLOWERS. BERRIES HIGHLY VALUED AS WILDLIFE FOOD SOURCE.
	7	2'-3'	VIRGINIA ROSE (<i>Rosa virginiana</i>)	6'	FAST GROWING SMALLER SHRUB WITH UPRIGHT STEMS. PINK FLOWERS BLOOM IN JUNE. SALT TOLERANT.
	6	2'-3'	BEACH PLUM (<i>Prunus maritima</i>)	6'-12'	THICKET-FORMING SHRUB OF SANDY COASTAL SITES. FRUIT HIGHLY VALUABLE AS A WILDLIFE FOOD.

OYSTER POND FURLONG – LANDSCAPING AND SURFACE TREATMENTS

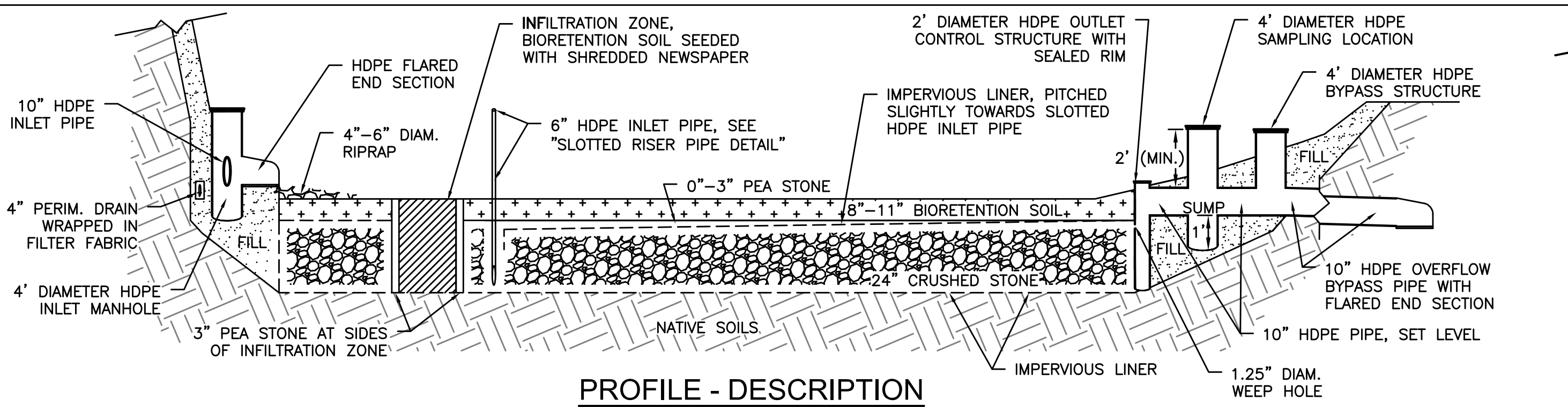


NOTES
1. PAVEMENT CROSS SECTION IS TYPICAL. CONTRACTOR TO MATCH EXISTING CONDITIONS.

TYPICAL PAVEMENT



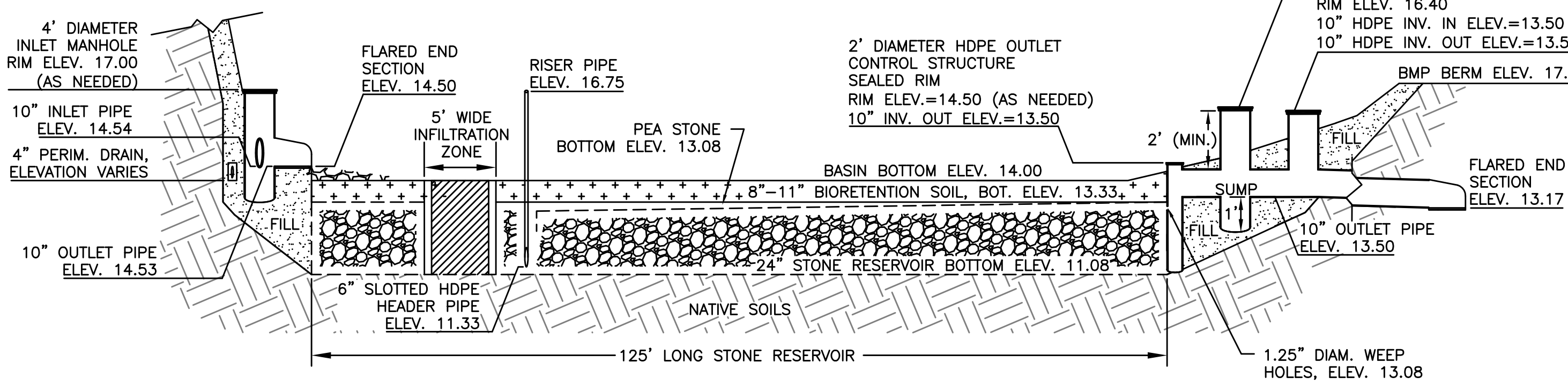
BMP OVERFLOW DETAILS



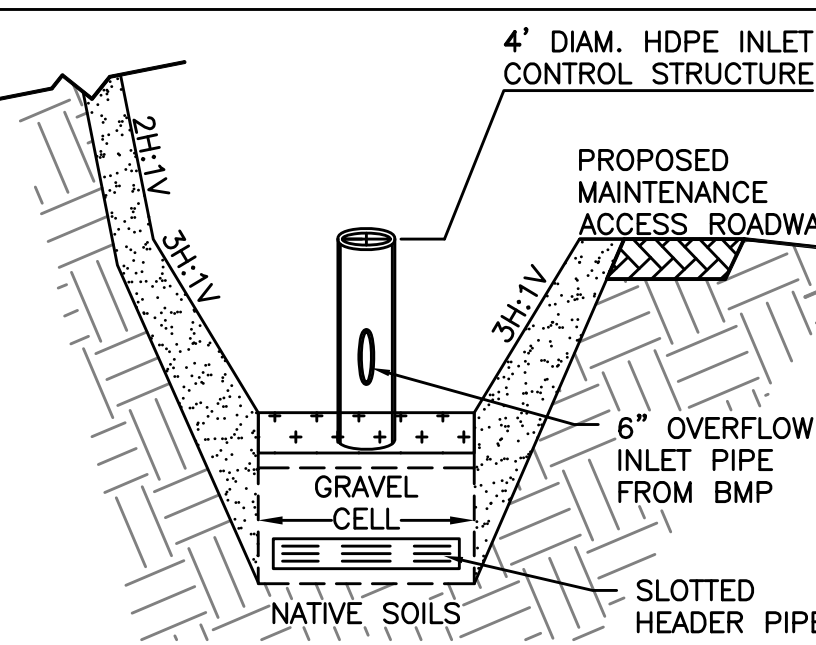
PROFILE - DESCRIPTION

SOIL COMPOSITION NOTES

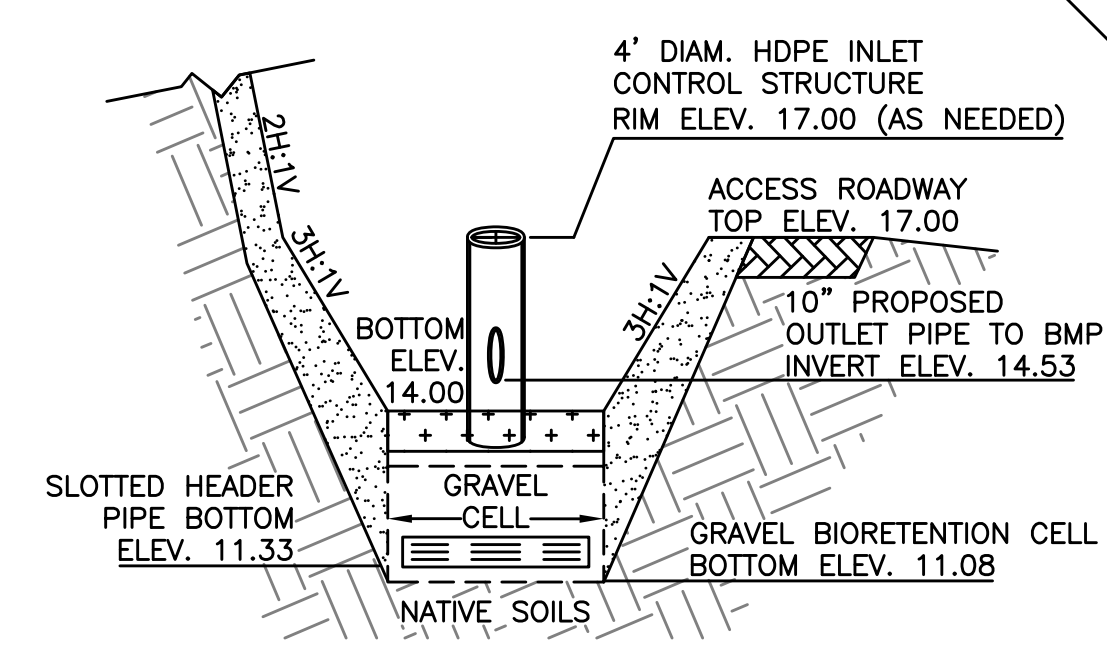
1. BIORETENTION SOILS SHALL CONSIST OF 55%-75% HIGH PERMEABILITY SAND AND FINE GRAVEL, 15% TO 25% NATIVE SOILS AND/OR LOAM, AND 10% TO 20% FINE ORGANIC MATERIAL SUCH AS COMPOST, OR EQUIVALENT MIXTURE AS APPROVED BY THE ENGINEER.
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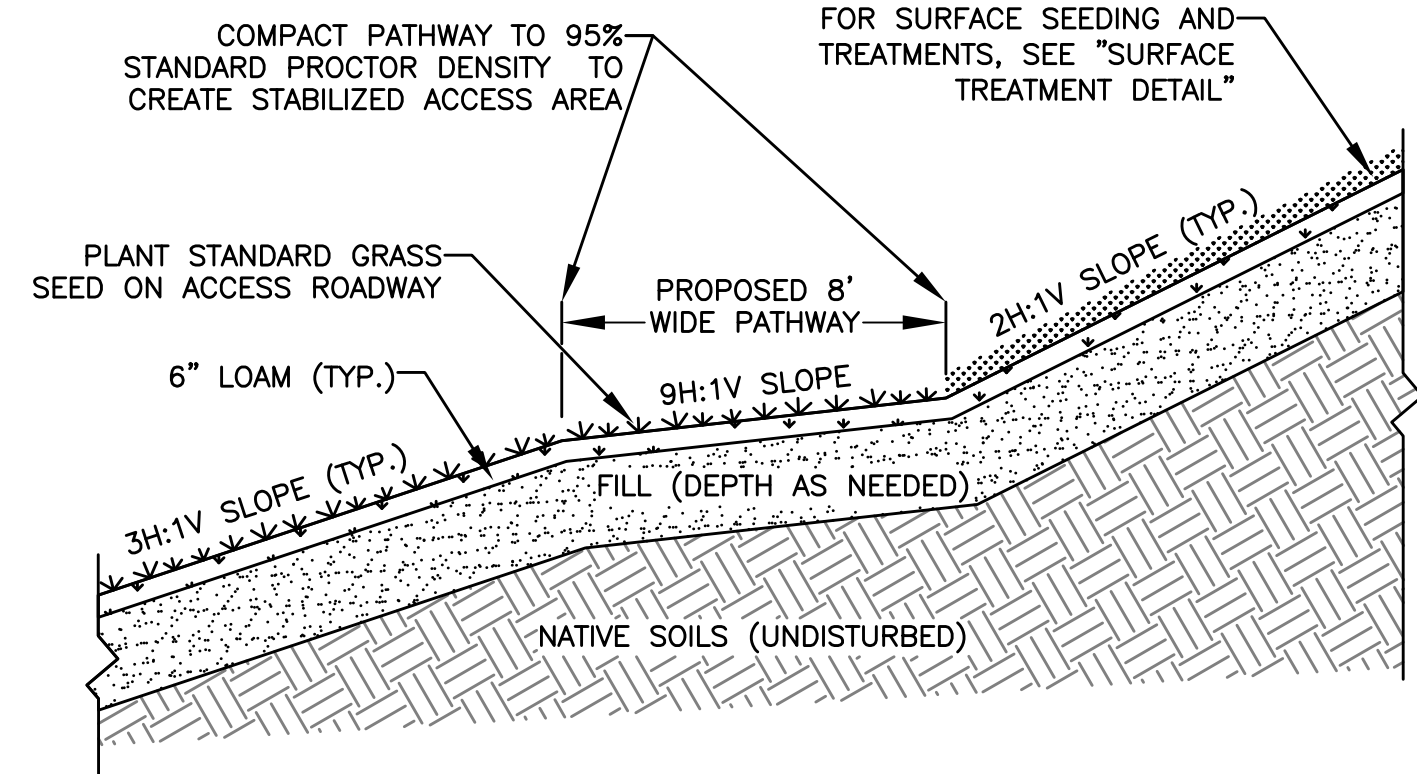
PROFILE - ELEVATIONS AND DIMENSIONS



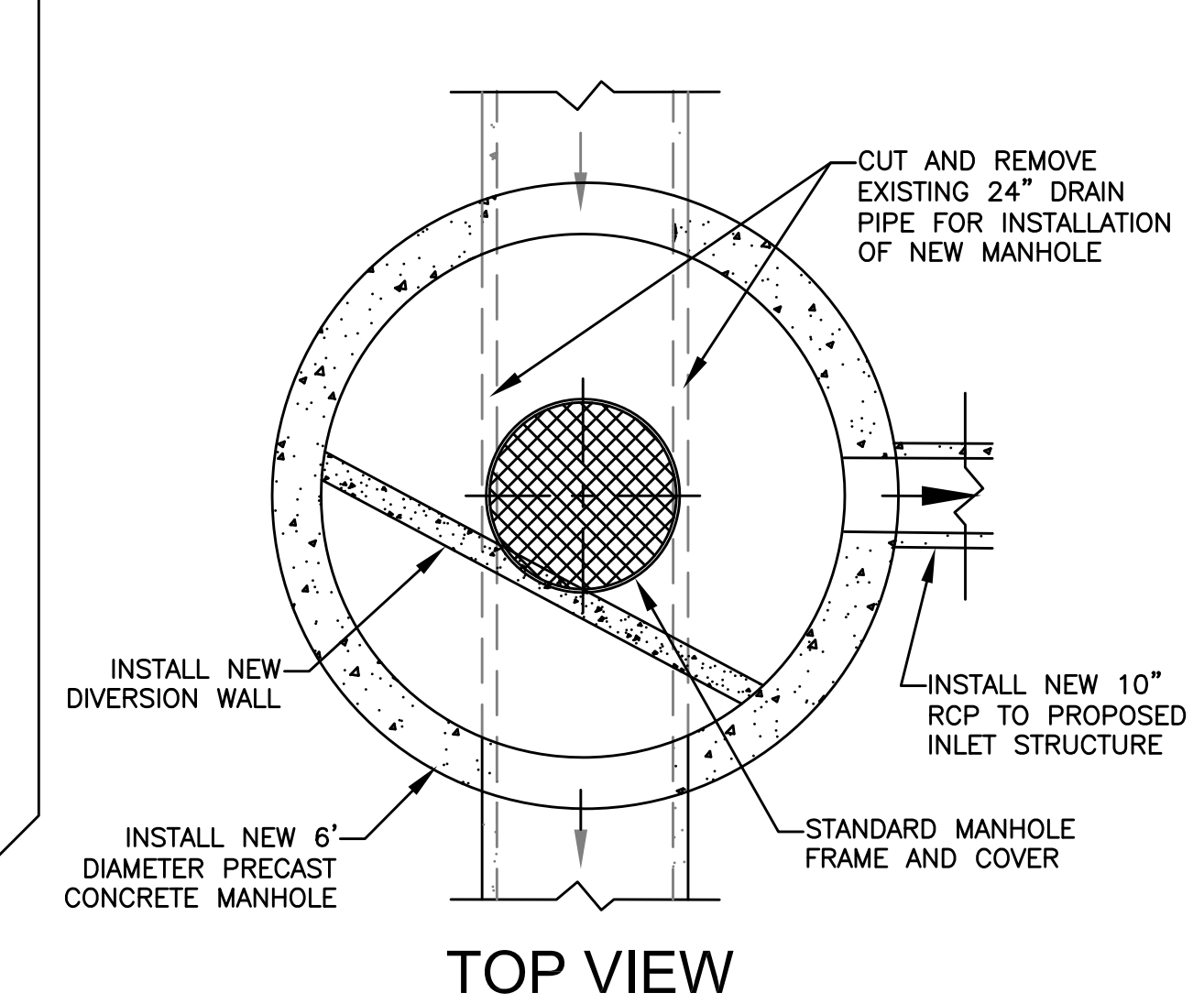
CROSS-SECTION A-A - DESCRIPTION



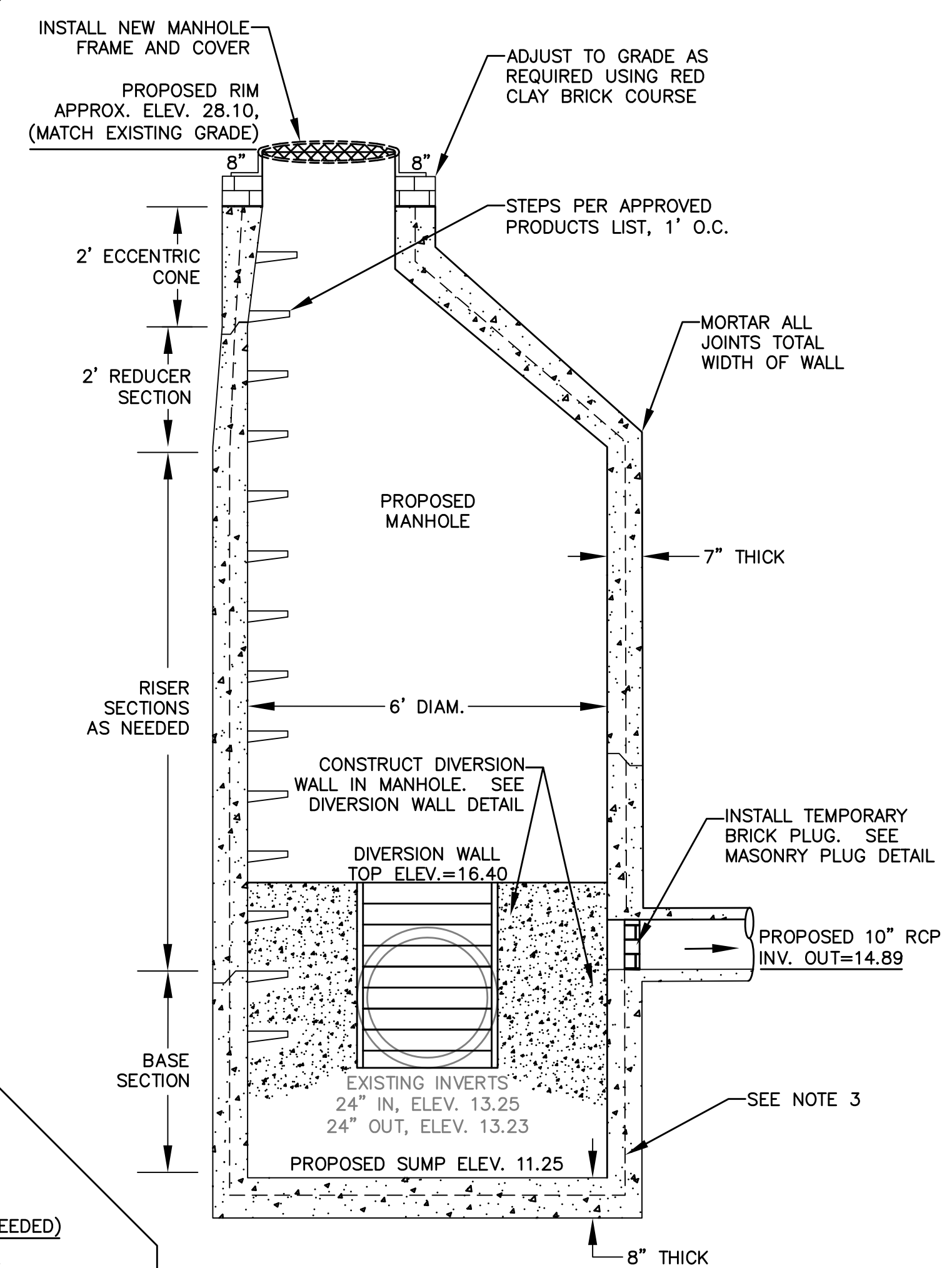
CROSS-SECTION A-A - ELEVATIONS AND DIMENSIONS



ACCESS ROADWAY



TOP VIEW



ELEVATION VIEW

NOTES

1. MANHOLE SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE RI STANDARD SPECIFICATIONS
2. CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED = 0.15 SQ. IN./LF. MINIMUM
3. STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN./LF. (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

RCP INLET CONTROL STRUCTURE

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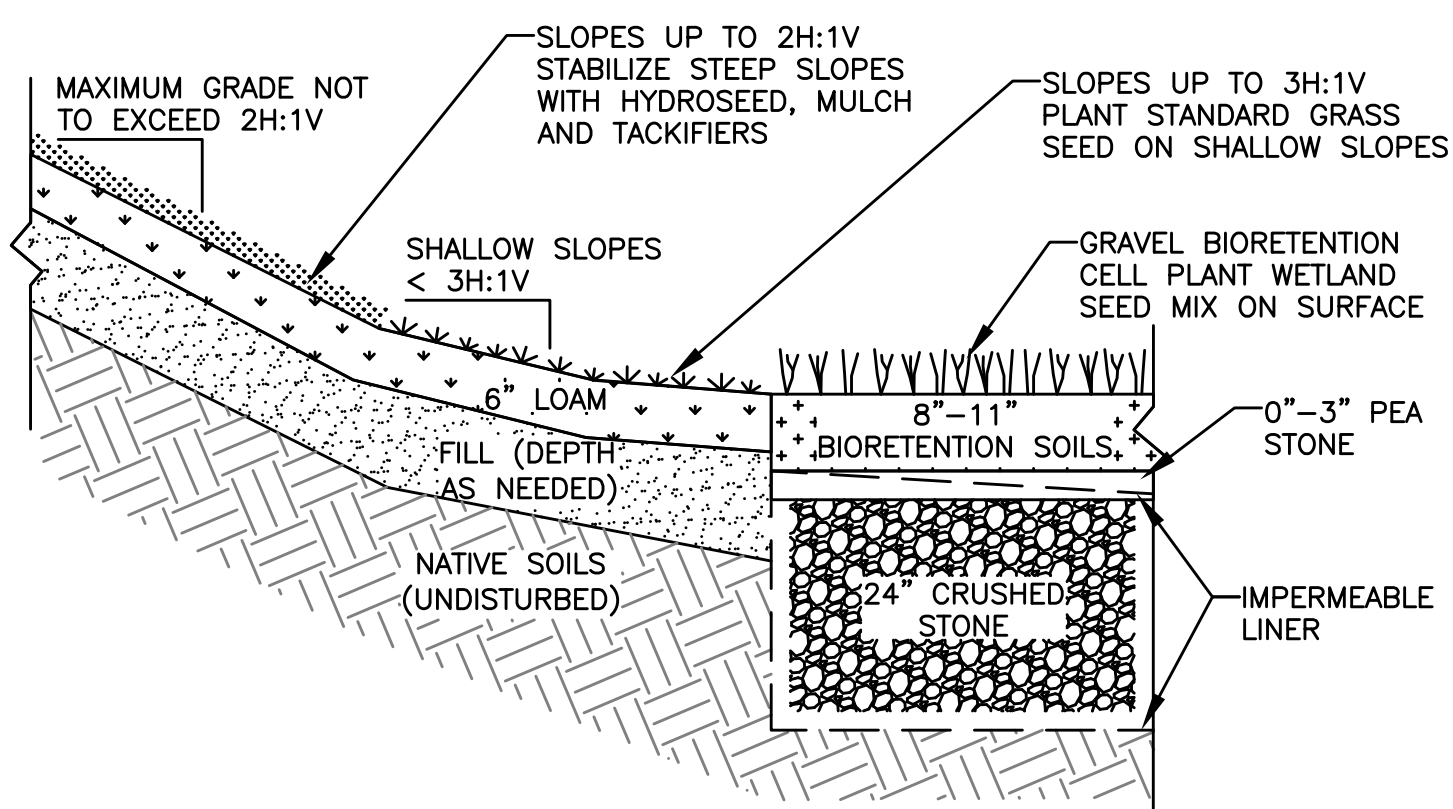
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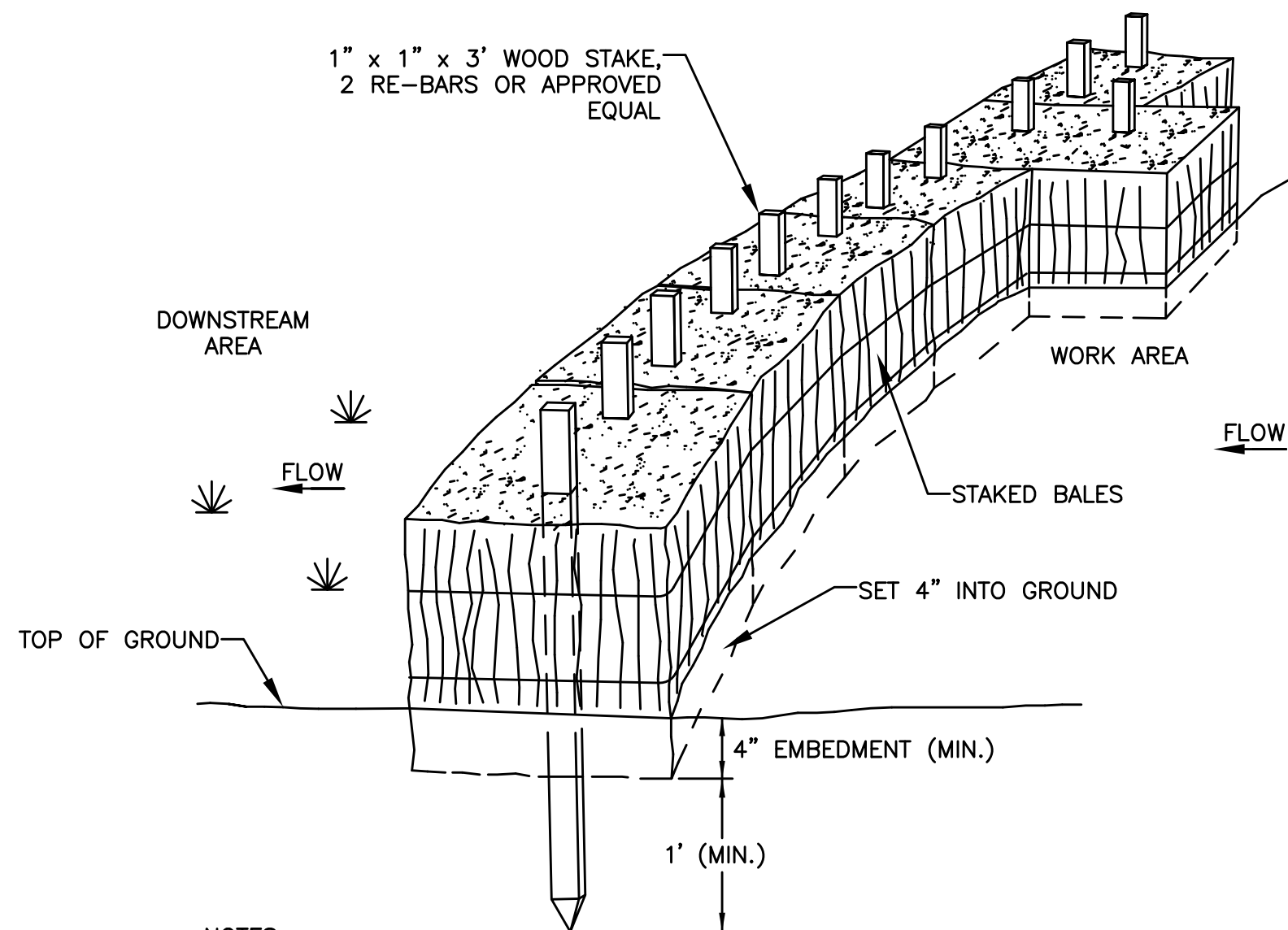
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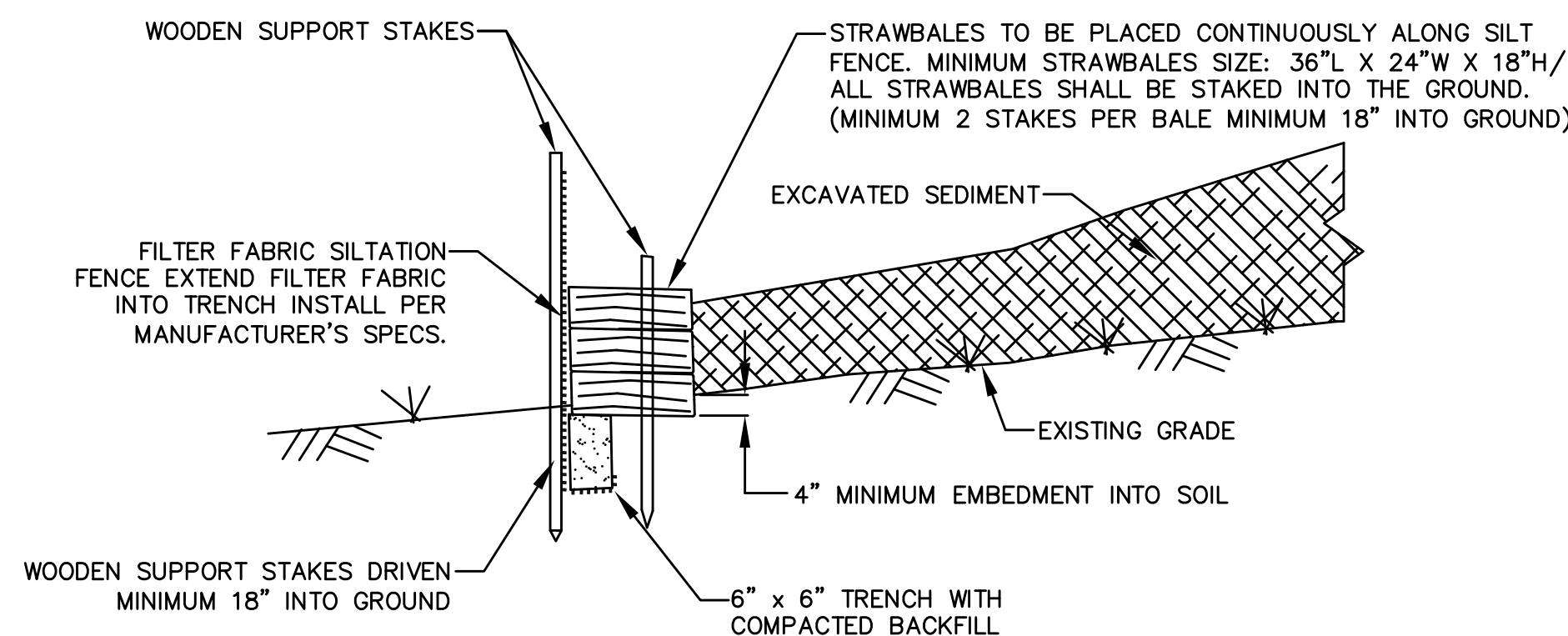
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 2. INFILTRATION ZONE SOILS (NOT SHOWN) SHALL CONSIST OF 60%-80% HIGH PERMEABILITY SAND AND FINE GRAVEL, 10% TO 20% NATIVE SOILS AND/OR LOAM, 5% TO 10% FINE ORGANIC MATERIAL SUCH AS COMPOST, AND 5% TO 10% SHREDDED NEWSPAPER, OR EQUIVALENT MIXTURE AS APPROVED BY THE ENGINEER.

SURFACE TREATMENTS

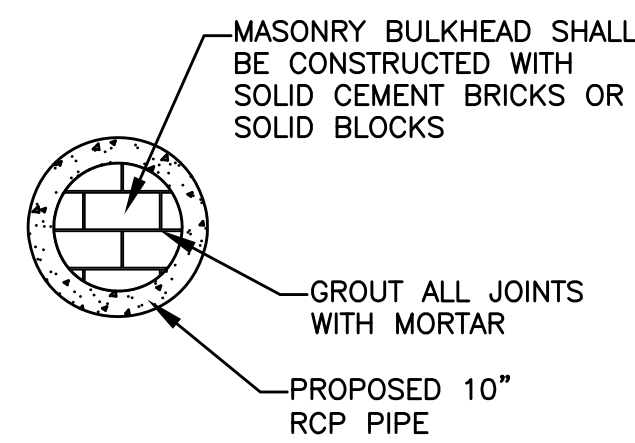


- NOTES**
1. PUT ONE HAYBALE PERPENDICULAR ALONG HAYBALE BARRIER (100' O.C.)

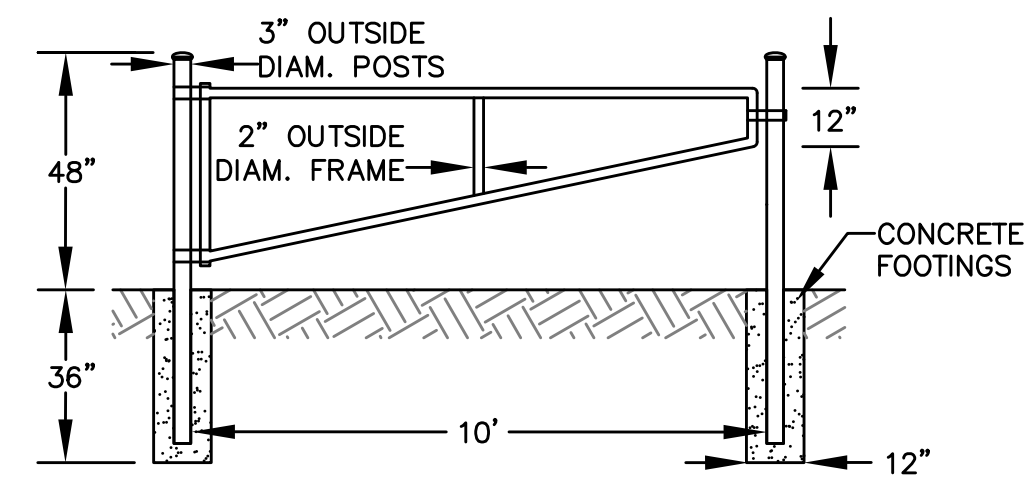
PERIMETER EROSION CONTROLS



MATERIAL DE-WATERING AREA

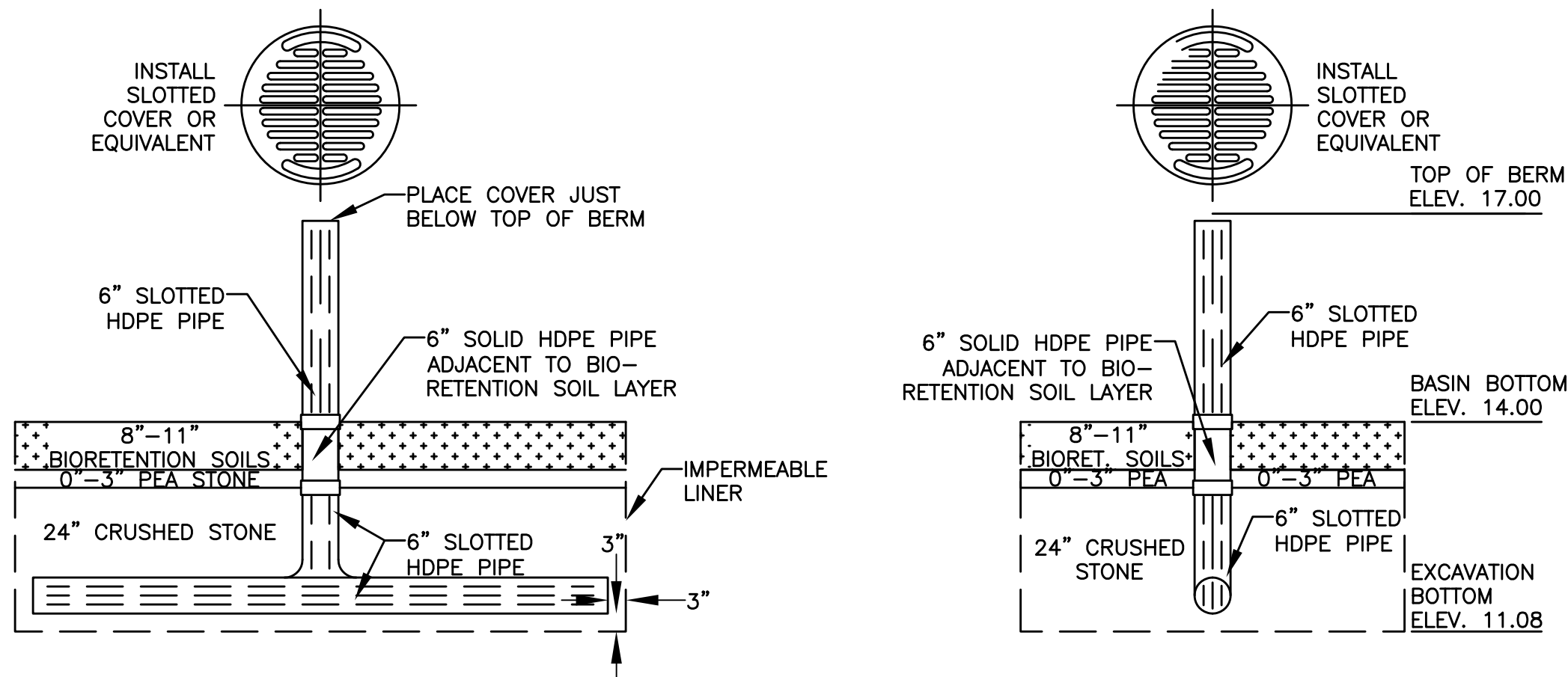


TEMPORARY PLUG



- GATE SPECIFICATIONS**
1. GATE SHALL EITHER BE COATED IN GREEN VINYL OR FIELD PAINTED DARK GREEN.

GATE DETAIL

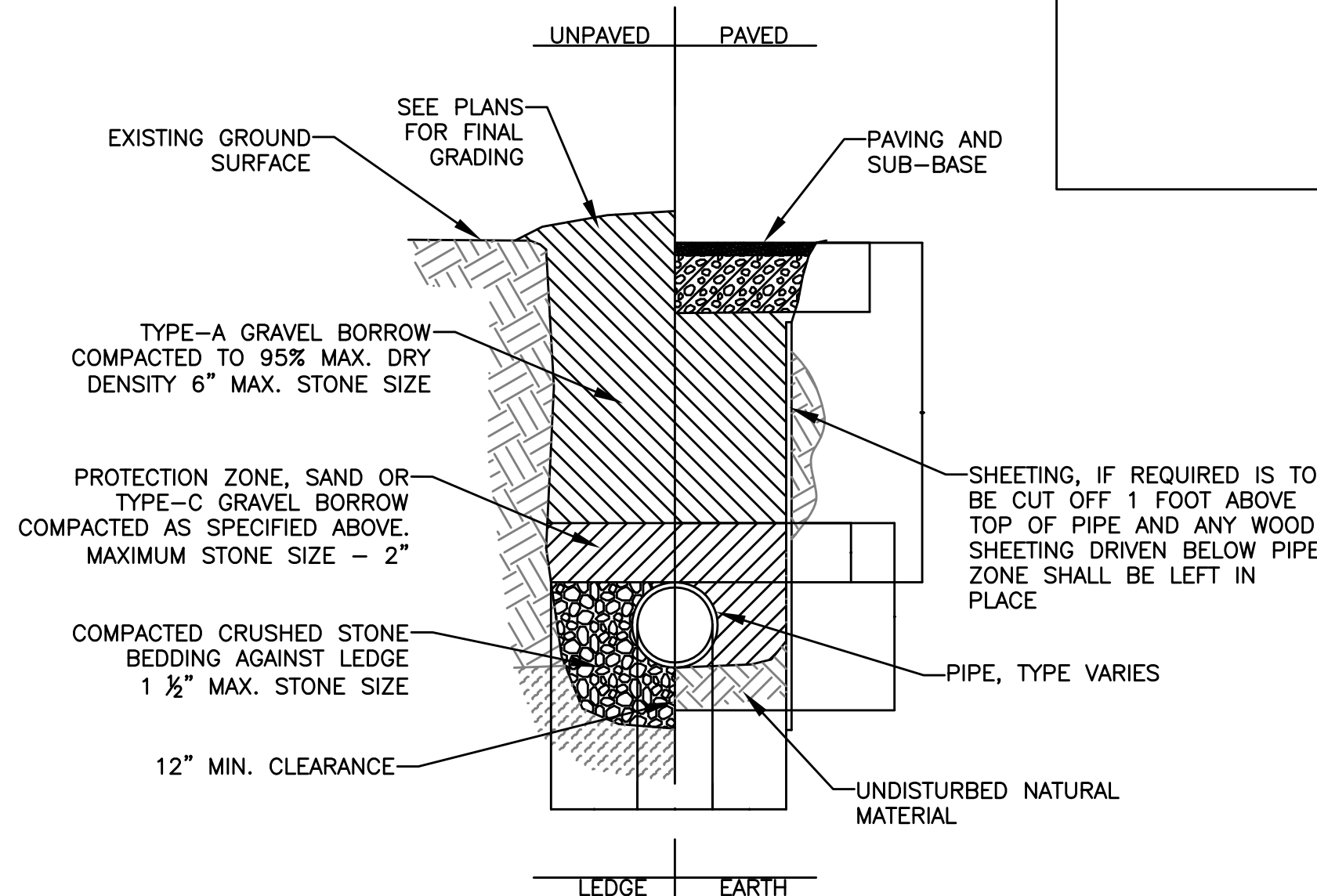


CROSS-SECTION VIEW

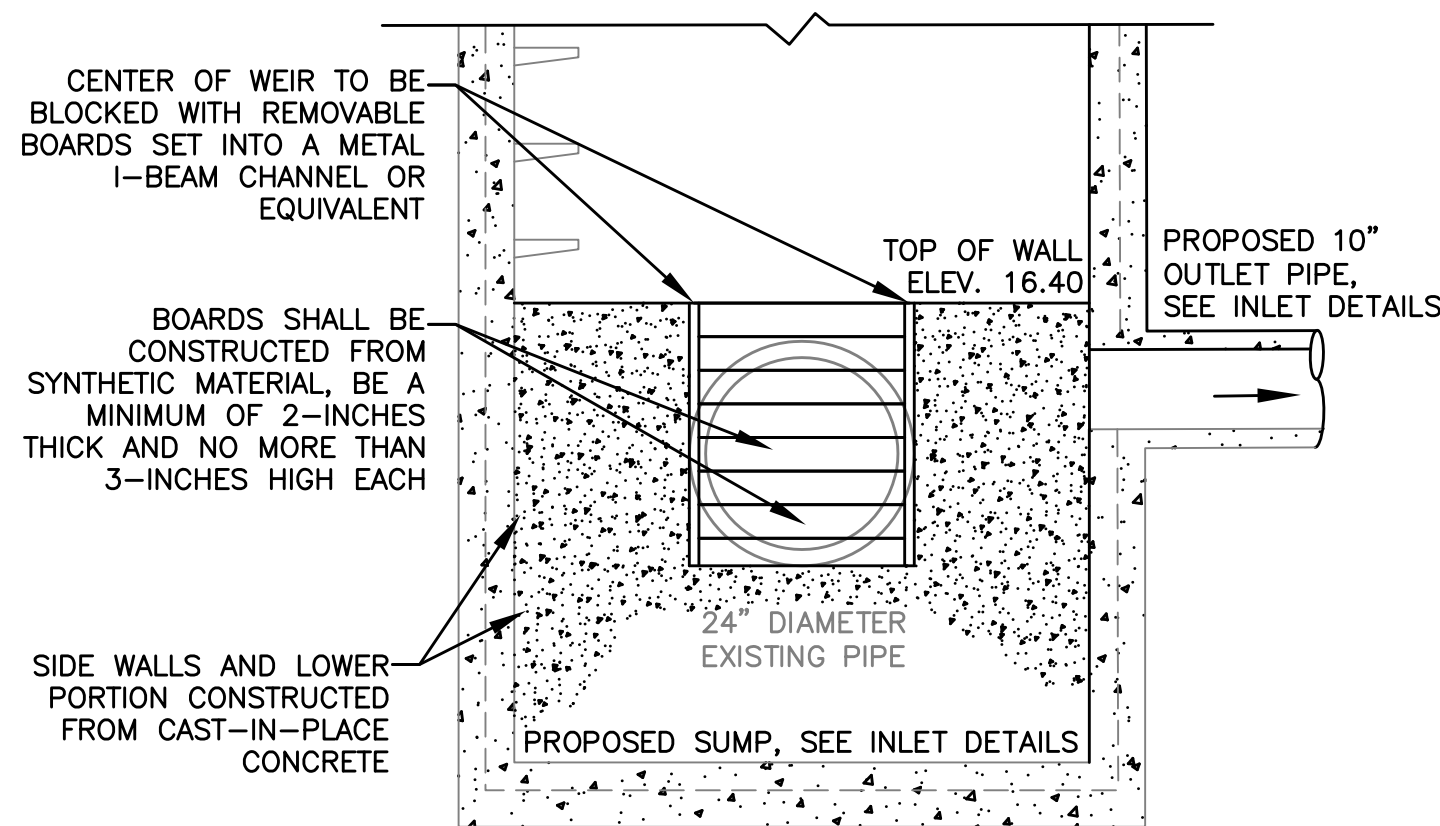
ELEVATION VIEW

- SLOTTED PIPE SPECIFICATIONS**
1. SLOTS SHALL BE A MINIMUM OF 0.040 INCHES WIDE SPACED EVERY 0.25\".

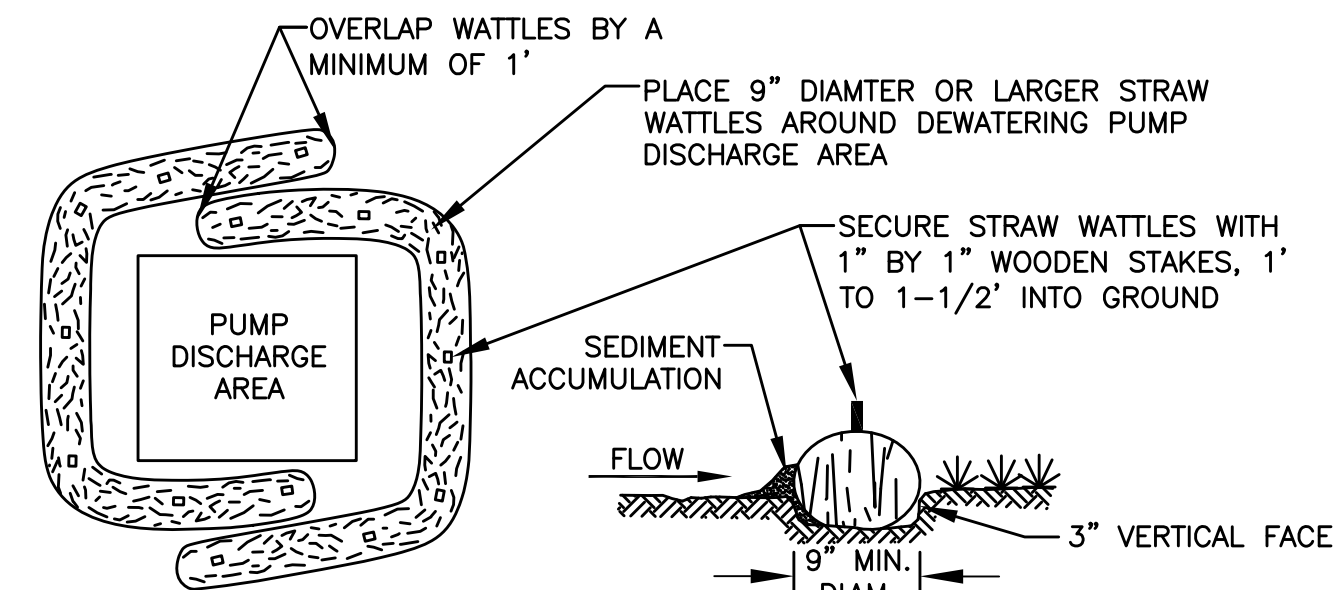
SLOTTED RISER PIPE DETAIL



PIPE TRENCHING DETAIL



DIVERSION WALL



PLAN

EMBEDDING DETAIL

STRAW WATTLE DE-WATERING AREA CONSTRUCTION SPECIFICATIONS

1. WATTLES SHALL BE PLACED IN A ROW WITH ENDS OVERLAPPING A MINIMUM OF 1'.
2. EACH WATTLE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 3\".
3. WATTLES SHALL BE SECURELY ANCHORED IN PLACE BY STAKES OR RE-BARS INSTALLED AT A MINIMUM EVERY 3' ON-CENTER.
4. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. SEDIMENT SHALL BE REMOVED WHEN THE HEIGHT REACHES THE HALFWAY POINT ON THE STRAW WATTLE.

PUMPING DE-WATERING DISCHARGE AREA

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ENVIRONMENTAL
INCORPORATED

21 DEPOT STREET
MERRIMACK, NH 03054

EPA Green Infrastructure
Education and Outreach Project

OYSTER POND BMP,
GRAVEL BIORETENTION CELL

Oyster Pond Furlong and Absegami
Run, Chatham MA

Project No.: 677-2	Sheet
Date: NOVEMBER 2015	
Drawn By: NC	
Checked By: ML	
Horizontal Datum: NAD88	
Vertical Datum: NAVD88	

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OYSTER POND BMP – DETAILS