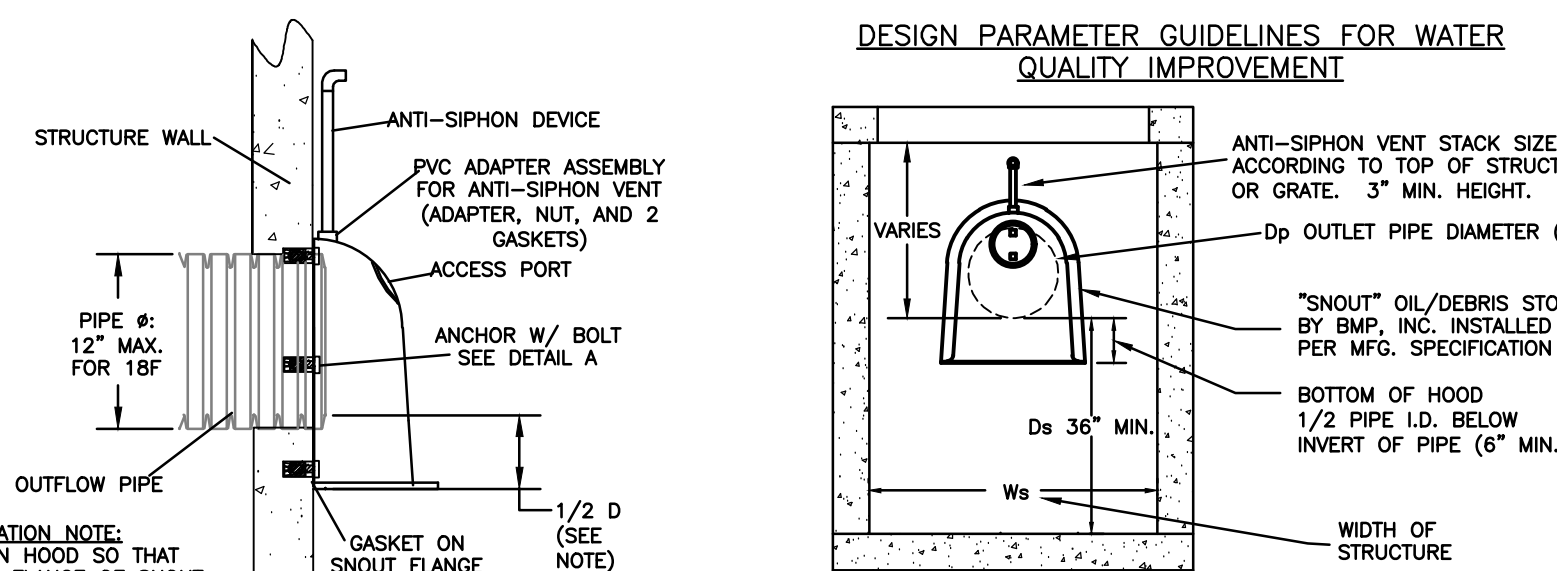
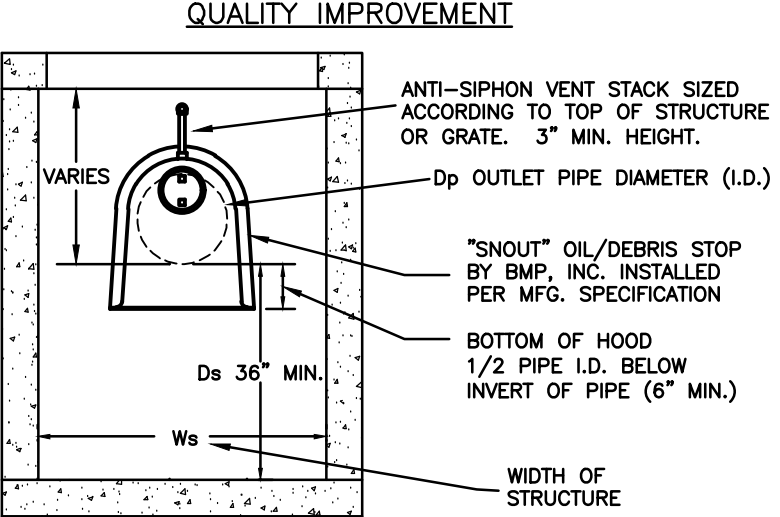


G:\LANDDEV\2012\201207083_Elcon Recycling\DESIGN\CAD\Production Drawings\207083_13--18--DETALS.dwg Layout: PCSM Details 1 Plotted By: batur, on Fri Feb 07, 2020 at 8:50am



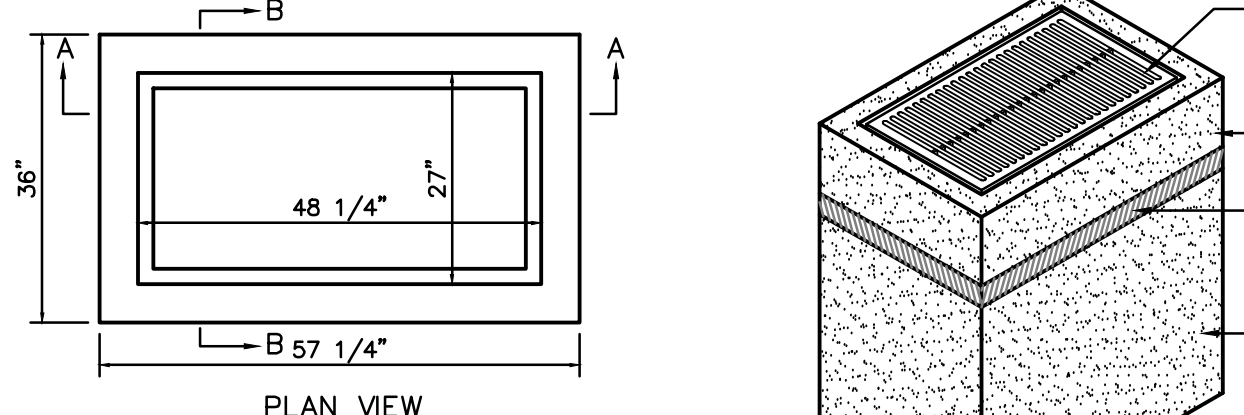
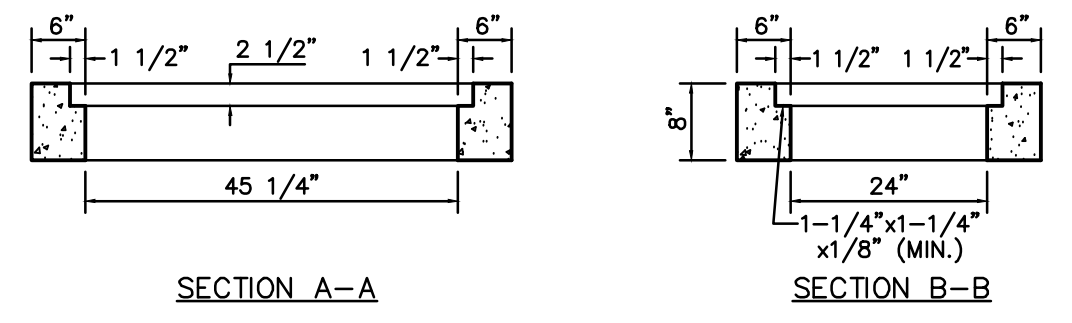
DESIGN PARAMETER GUIDELINES FOR WATER QUALITY IMPROVEMENT



- NOTES:
1. SELECT THE SNOOT OIL & DEBRIS STOP SIZE AND CONFIGURATION TO FIT APPLICATION. SEE TABLE.
 2. CENTER THE SNOOT DIRECTLY OVER THE EXIT PIPE SO THAT THE ENTIRE PIPE IS COVERED AND SO THAT THE LOWER EDGE OF THE HOOD IS AT LEAST 1/2 THE PIPE DIAMETER BELOW THE LOWEST INSIDE POINT OF THE PIPE.
 3. DRILL EQUALLY SPACED 7/16" HOLES THROUGH THE SNOOT FLANGE. (NUMBER OF HOLES MAY VARY WITH SIZE OF SNOOT.)
 4. MARK AND DRILL CATCH BASIN AND INSTALL THE TAMP-IN LEAD ANCHORS:
 - A) DRILL A 3/4" HOLE INTO THE BASE MATERIAL TO THE REQUIRED DEPTH.
 - B) BLOW THE HOLE CLEAN OF DUST AND OTHER MATERIAL.
 - C) INSERT THE ANCHOR INTO THE HOLE (LEAD SHIELD OUT).
 - D) POSITION THE SETTING TOOL IN THE ANCHOR. THE OUTER RIM OF THE TOOL SHOULD SEAT ONTO THE LEAD SHIELD RIM.
 - E) USING THE TOOL, SET THE ANCHOR BY DRIVING THE LEAD SLAVE OVER THE CONE USING SEVERAL SHARP HAMMER BLOWS. BE SURE THE ANCHOR IS AT THE REQUIRED EMBEDMENT DEPTH.
 5. ATTACH THE VENT PIPE ADAPTER IN THE PREDRILLED HOLE IN THE TOP OF THE SNOOT USING THE 2 FLAT O-RING GASKETS AND PVC LOCK-NUT SUPPLIED IN KIT. INSTALL WITH THE FEMALE SLP ADAPTER UP AND A WASHER ON EACH SIDE OF THE SNOOT SHELL. TIGHTEN LOCK-NUT HAND TIGHT.
 6. REMOVE PSA BACKING AND WITH FIRM PRESSURE, ATTACH GASKET STRIP TO BACK OF FLANGE AND TRIM EXCESS.
 7. ATTACH THE SNOOT TO THE CATCH BASIN WALL WITH 3/8" DIAMETER STAINLESS STEEL BOLTS DO NOT OVER TIGHTEN: 10 TO 15 FOOT POUNDS SHOULD BE SUFFICIENT.
 8. CUT THE ANTI-SIPHON VENT STACK TO LENGTH AND ATTACH TO HOOD WITH PVC CEMENT AND WITH FIRM PRESSURE, ATTACH GASKET STRIP TO FITTING OPENING IS ACCESSIBLE FOR MAINTENANCE AND INSPECTION.
 9. ATTACH 90 DEGREE FITTING TO VENT STACK WITH PVC CEMENT. INSURE THAT FITTING OPENING IS ACCESSIBLE FOR MAINTENANCE AND INSPECTION.

SNOOT DIMENSION												
SIZE	A1	A2	B1	B2	C1	C2	D1	D2	PORT Ø	R1	R2	
LARGE 24"	26"	30"	13"	15"	34"	20"	12"	24"	28"	10"	13"	15"
SMALL 18"	20"	24"	10"	12"	27"	16"	9"	18"	22"	6.5"	10"	12"

WATER QUALITY SNOOT INLET INSERT DETAIL

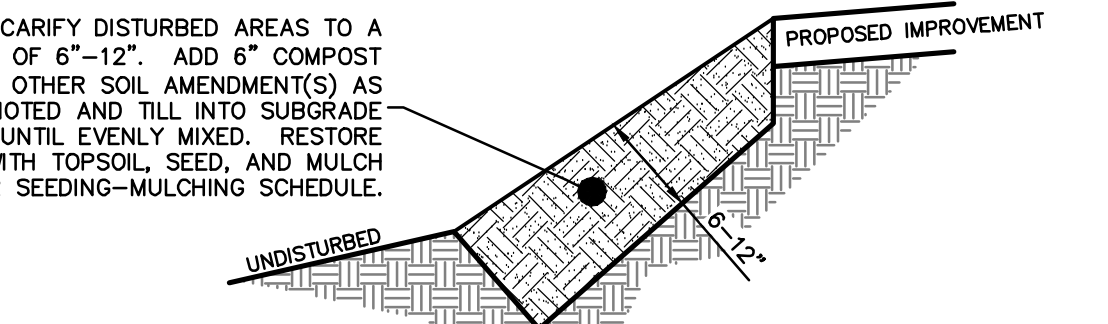


TYPE 'M' INLET DETAIL

NOT TO SCALE

COMPOST MATERIAL SHALL BE NEED FREE COMPOST DERIVED FROM WELL-DECOMPOSED ORGANIC MATTER. COMPOST SHALL BE PRODUCED USING AEROBIC COMPOSTING PROCESS MEETING CFR 503 REGULATIONS. COMPOST MATERIAL SHALL MEET THE FOLLOWING REQUIREMENTS:

ORGANIC MATTER CONTENT	25% - 100%
ORGANIC PORTION	FIBROUS & ELONGATED
pH	5.5 - 8.5
MOISTURE CONTENT	30% - 60%
PARTICLE SIZE	30-50X PASS 3/8" SIEVE
SOLUBLE SALT	5.0 gS/m MAXIMUM

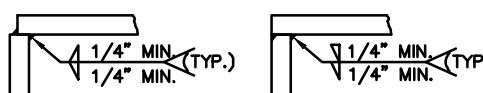


SOIL AMENDMENT & RESTORATION - NOTES

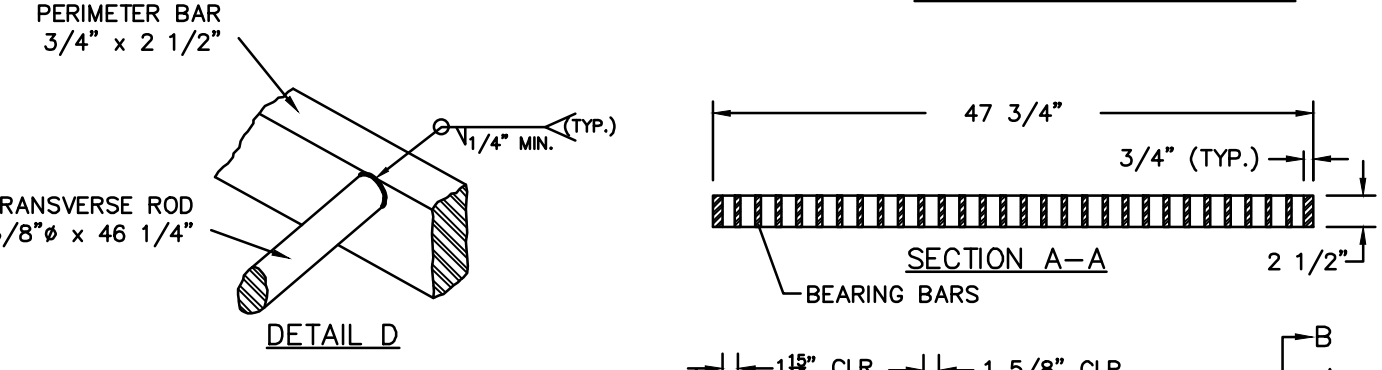
1. COMPOST TO BE ADDED AT A RATE OF 2:1 (SOIL:COMPOST). IF A PROPRIETARY PRODUCT IS USED, THE MANUFACTURER'S INSTRUCTIONS TO BE FOLLOWED IN TERMS OF MIXING AND APPLICATION RATE.
2. ON-SITE SOILS WITH AN ORGANIC CONTENT OF AT LEAST 5 PERCENT CAN BE PROPERLY STOCKPILED (TO MAINTAIN ORGANIC CONTENT) AND REUSED.
3. PROCEDURE: ROTOTILL OR RIP THE SUBGRADE, REMOVE ROCKS, DISTRIBUTE THE COMPOST, SPREAD THE NUTRIENTS, ROTOTILL AGAIN.
4. ADD 6 INCHES COMPOST/AMENDMENT AND TILL UP TO 12 INCHES.
5. PROCEDURE: ROTOTILL OR RIP THE SUBGRADE, REMOVE ROCKS, DISTRIBUTE THE COMPOST, SPREAD THE NUTRIENTS, ROTOTILL AGAIN.
6. SPREAD 2-3 INCHES OF APPROVED COMPOST ON EXISTING SOIL. TILL ADDED SOIL INTO EXISTING SOIL WITH A ROTARY TILLER THAT IS SET TO A DEPTH OF 8 INCHES. ADD AN ADDITIONAL 4 INCHES OF APPROVED COMPOST TO BRING THE AREA UP TO GRADE.
7. AFTER PERMANENT PLANTING/SEEDING, 2-3 INCHES OF COMPOST BLANKET WILL BE APPLIED TO ALL AREAS NOT PROTECTED BY GRASS OR OTHER PLANTS.

SOIL AMENDMENT & RESTORATION

NOT TO SCALE



TYPICAL CORNER DETAILS



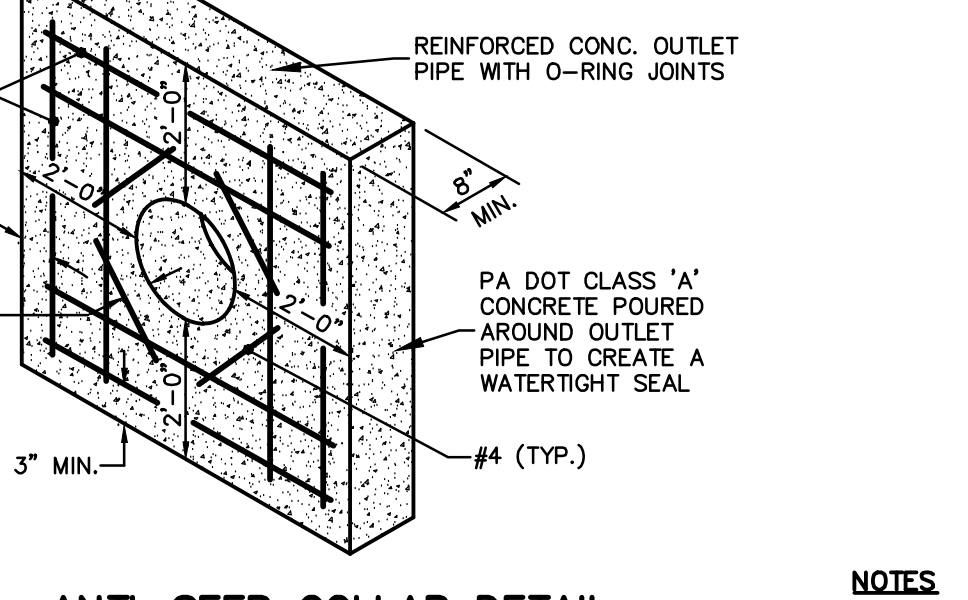
STORM SEWER INLET GRATE (STRUCTURAL STEEL-BICYCLE SAFE) DETAIL

NOT TO SCALE

- NOTES:
1. REFER TO PCSM PLAN(S) FOR NUMBER AND SPACING OF UNDERDRAINS.
 2. ALL CLEANOUTS AND ANGLES WITHIN UNDERDRAIN SHOULD NOT EXCEED 45 DEGREES.
 3. ALL CLEANOUTS SHOULD BE WATERTIGHT TO ENSURE WATER DOES NOT ENTER THE UNDERDRAIN THROUGH THE TOP OF THE CLEANOUT.
 4. AGGREGATE FOR UNDERDRAIN BEDDING AND ENVELOPE SHOULD BE CLEAN WASHED STONE FOR WATER QUALITY REASONS.
 5. UNDERDRAIN SHOULD HAVE A MINIMUM FLOW RATE OF 10 GAL (1.34 CF) PER MINUTE PER LINEAR FOOT OF PIPE.
 6. UNDERDRAIN SHOULD BE PERFORATED TO PROVIDE A MINIMUM WATER INLET AREA OF 1.4 SQUARE INCHES PER LINEAR FOOT OF PIPE.

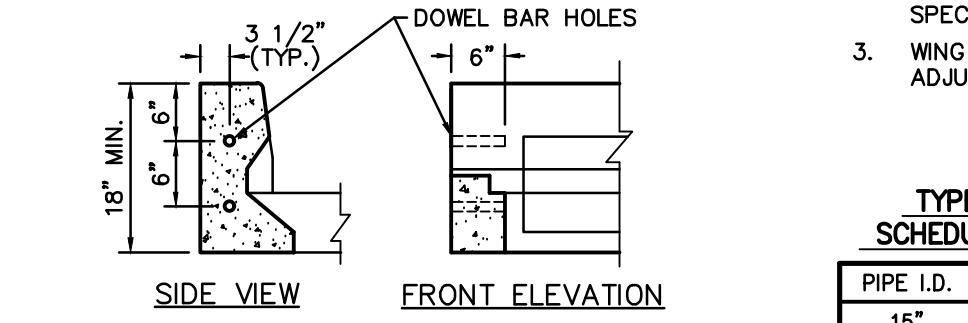
BASIN UNDERDRAIN DETAIL

NOT TO SCALE



ANTI-SEEP COLLAR DETAIL

NOT TO SCALE



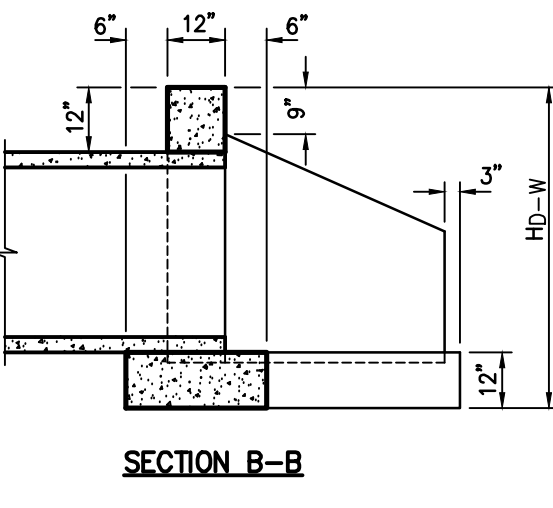
NOTES

1. PRECAST ENDWALLS SHALL CONFORM TO USERS AND REFER TO "COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION, BUREAU OF HIGHWAY DESIGN, STANDARDS FOR ROADWAY CONSTRUCTION," PAGE RC-31M, LATEST ISSUE, FOR NOTES REGARDING PRECAST CONCRETE ENDWALL CONSTRUCTION.
2. REFER TO "COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION, BUREAU OF HIGHWAY DESIGN, STANDARDS FOR ROADWAY CONSTRUCTION," PAGE RC-31M, SHEET 2 OF 2, TABLE 'A' FOR SPECIFIC DIMENSIONS THAT ARE DEPENDENT UPON PIPE SKEW.
3. WING WALL DIMENSIONS ASSUME AN EMBANKMENT SLOPE OF 2:1. WING WALL LENGTHS SHALL BE ADJUSTED TO PROVIDE REQUIRED EMBANKMENT SLOPE AS SHOWN ON GRADING PLANS. SEE NOTE 2.

TYPE D-W ENDWALL SCHEDULE OF DIMENSIONS

PIPE I.D.	L	W	H
15"	3.5'	3.0'	2.4'
18"	3.8'	3.0'	2.7'
21"	4.1'	3.5'	3.0'
24"	4.3'	3.5'	3.2'
27"	4.5'	4.0'	3.5'
30"	4.8'	4.0'	3.8'
36"	5.8'	4.6'	4.3'
42"	6.3'	5.8'	4.9'
48"	6.9'	6.9'	5.4'
54"	7.5'	7.8'	6.0'
60"	8.1'	9.2'	6.5'
72"	9.2'	11.5'	7.6'

* WALL THICKNESS INCREASED TO 15"



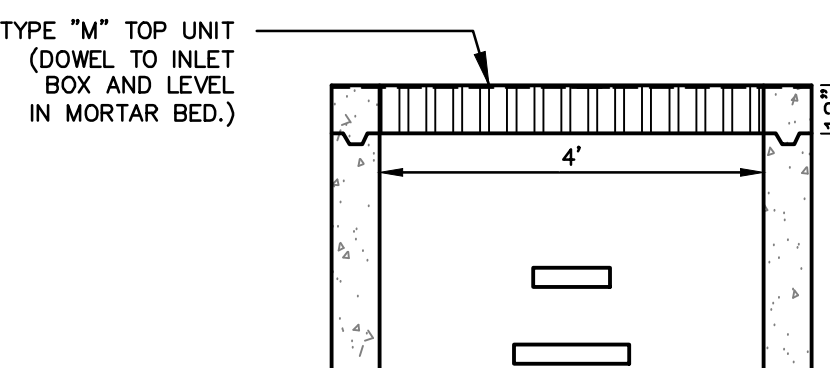
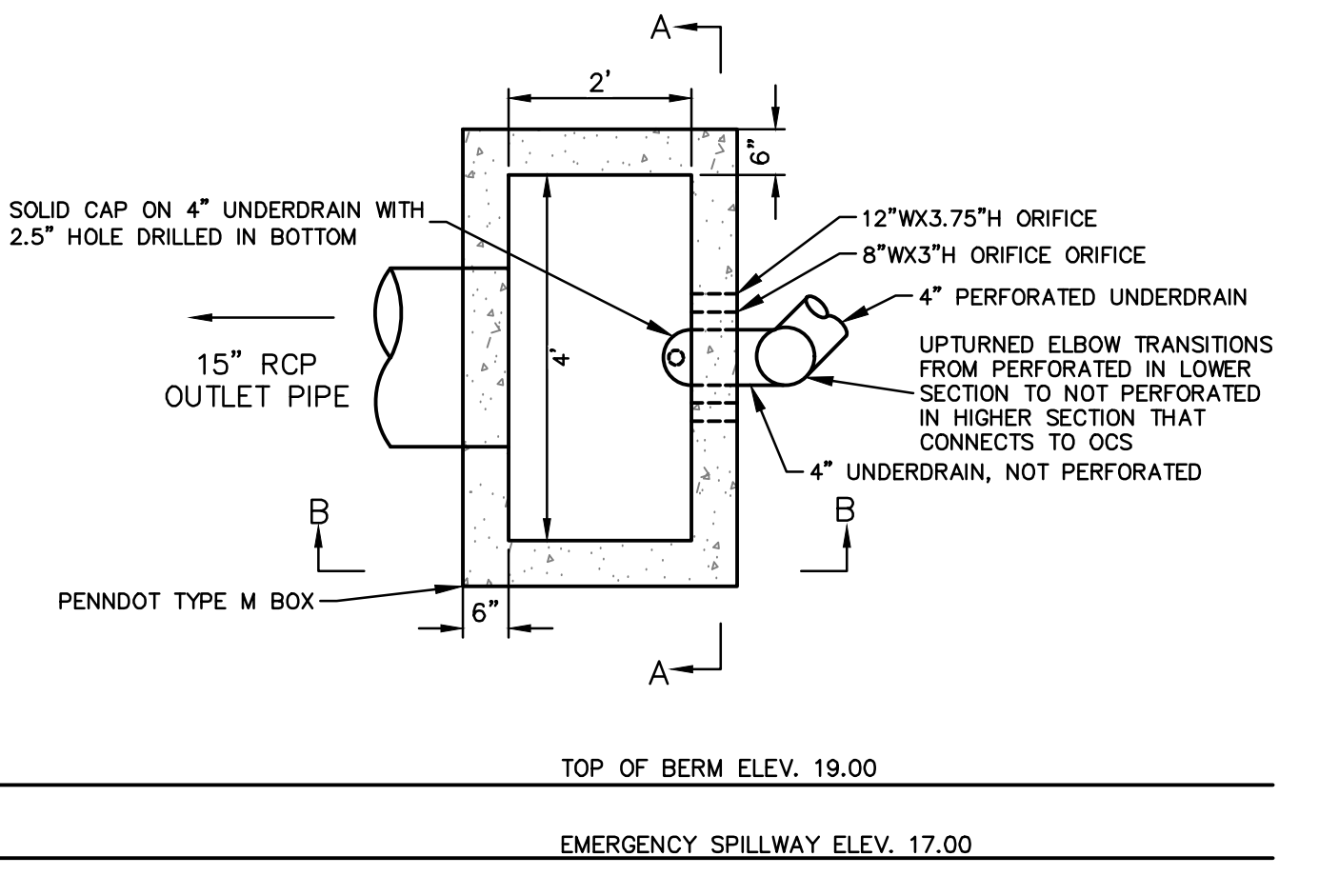
PENNDOT TYPE D-W ENDWALL

NOT TO SCALE

PROPERTY	TEST METHOD	REQUIREMENT
THICKNESS	ASTM 5199	30ml (0.76 mm)
STRENGTH AT BREAK	ASTM D882	73 lbs/in (12.8 kN/m)
ELONGATION AT BREAK	ASTM D882	380%
MODULUS AT 100% ELONG.	ASTM D882	32 lbs/in (6.6 kN/m)
TEAR STRENGTH	ASTM D1004	8 lbs (35 N)
DIMENSIONAL STABILITY	ASTM D1204	3% MAX.
LOW TEMP. IMPACT	ASTM D1790	-20° F (-29° C)
INDEX PROPERTIES		
SPECIFIC GRAVITY	ASTM D792	1.2
WATER EXTRACTION	ASTM D1239	0.15% MAX.
AVERAGE PLASTICIZER MOLECULAR WEIGHT	ASTM D2124	400
VOLATILE LOSS	ASTM D1203	0.7%
BREAKING FACTOR	ASTM G160	5% MAX.
ELONGATION AT BREAK	ASTM G160	20% MAX.
MODULUS AT 100% ELONG.	ASTM G160	20% MAX.
HYDROSTATIC RESISTANCE	ASTM D751	100 psi (690 kPa) MIN.
SEAM REQUIREMENTS		
FACTORY SEAMING METHOD	ELECTRIC FUSION WELD	
SHEAR STRENGTH	ASTM D882	58.4 lbs/in (10 kN/m)
PEEL ADHESION	ASTM D882	15 lbs/in (2.6 kN/m)

IMPERMEABLE PVC LINER SPECS

NOT TO SCALE

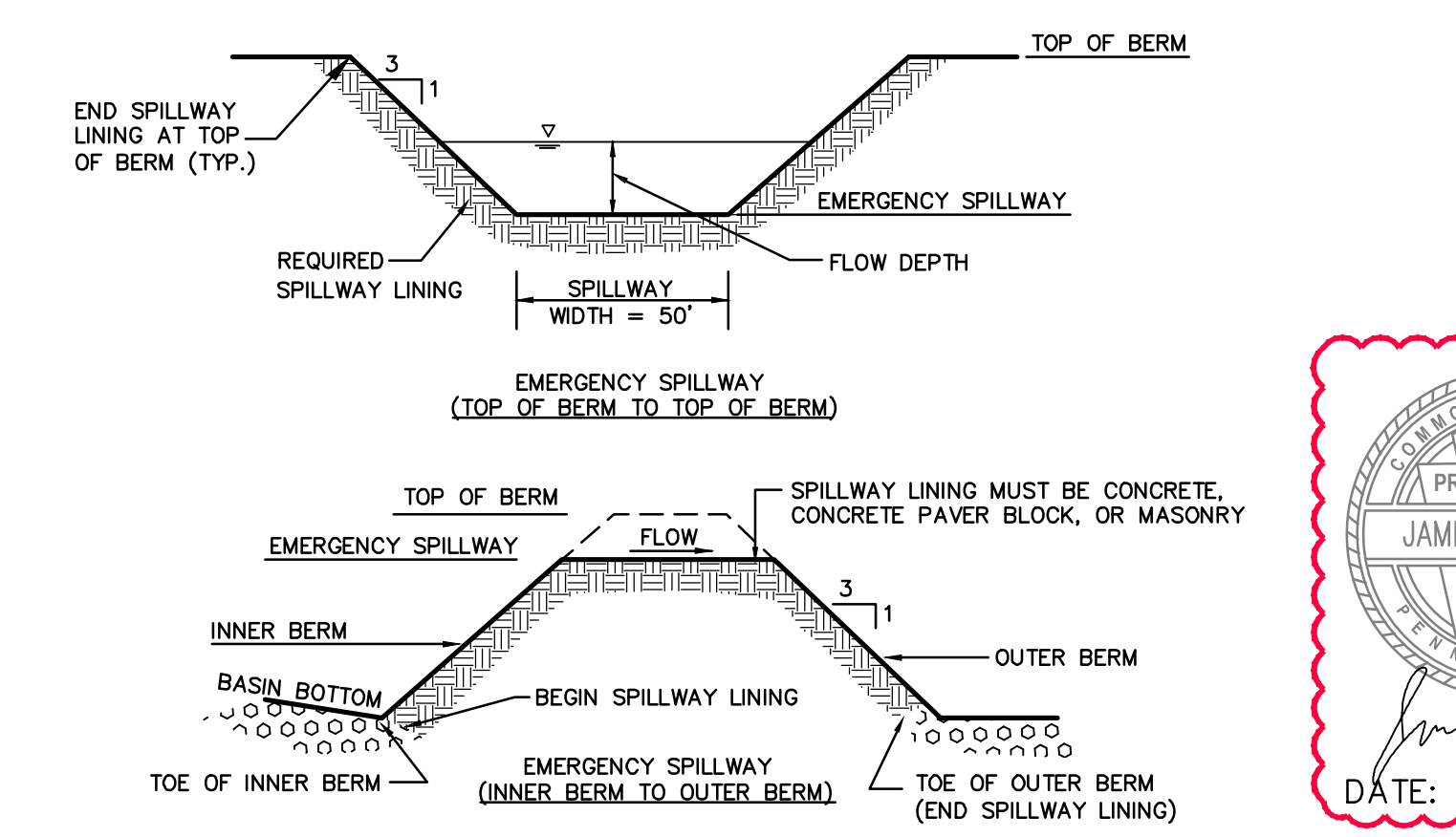
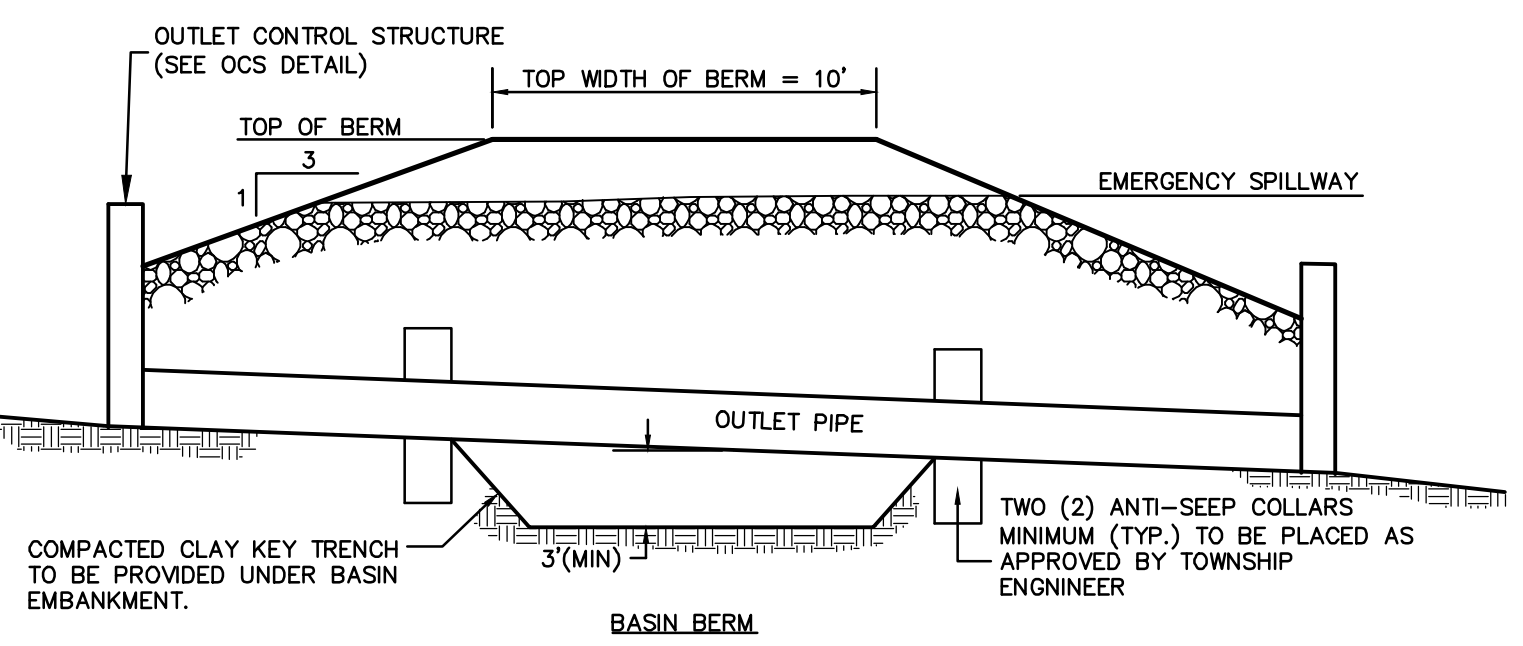
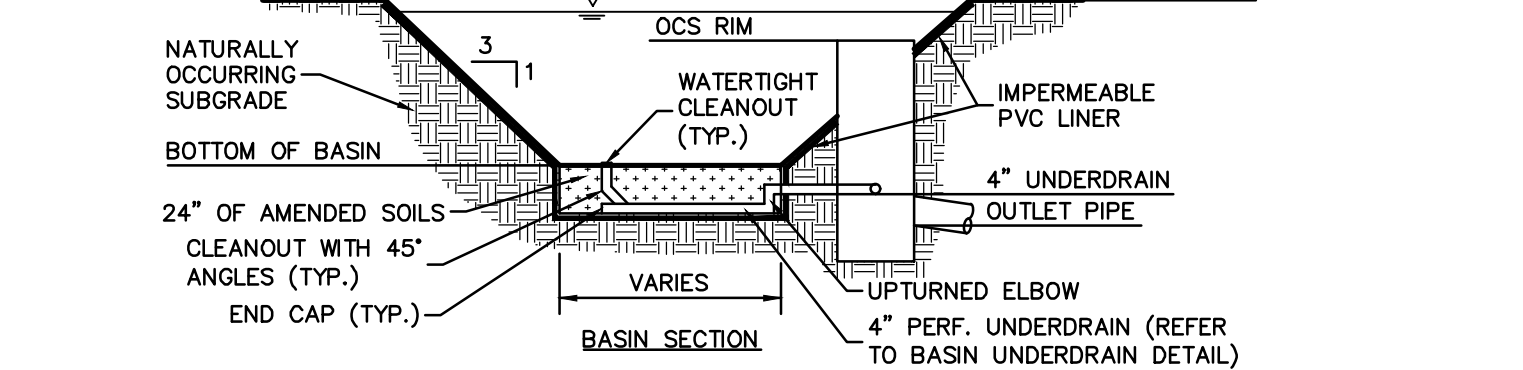


SECTION A-A

SECTION B-B

OCS-1 DETAIL

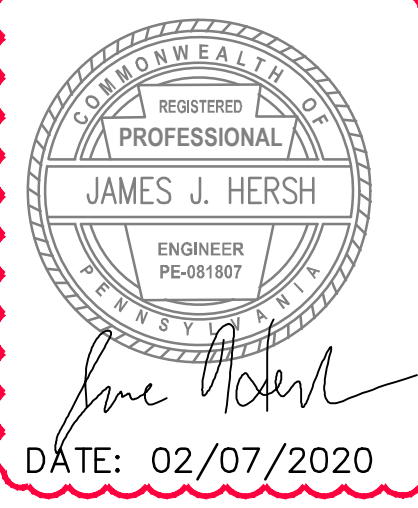
NOT TO SCALE



PCSM BMP	2-YR WATER ELEV.	100-YR WATER ELEV.	TOP OF BERM	EMER SPILLWAY ELEV.	EMER SPILLWAY WIDTH	OCS RIM	BOTTOM OF BASIN	BOTTOM OF AMENDED SOILS	UNDERDRAIN INVERT IN BASIN	UNDERDRAIN INVERT IN OCS	OCS OUTLET	OCS TAIL INVERT
LINED MRC BASIN	14.39	16.15	19.00	17.00	50 FT	16.25	13.25	11.25	11.25	12.67	15"RCP	12.50

LINED MRC BASIN SECTIONS

NOT TO SCALE



DATE: 02/07/2020

GILMORE & ASSOCIATES, INC.
ENGINEERING & CONSULTING SERVICES
16 EAST BUTLER AVENUE SUITE 100 (NORTH BIRCH) COVINGTON, PA 15033 724-335-3303 www.gilmoreassoc.com

ONLY THOSE PLANS INCORPORATING THE PROFESSIONAL SEAL SHOULD BE CONSIDERED OFFICIAL AND RELIED UPON BY USER. THIS PLAN IS HEREBY REVOKED IN WHOLE OR IN PART. NO DUPLICATION OR USE WITHOUT THE CONSENT OF GILMORE & ASSOCIATES, INC. IS PROHIBITED. © COPYRIGHT 2017 GILMORE & ASSOCIATES, INC. ALL RIGHTS RESERVED.

TAX MAP PARCEL NO.: 13-51-1-5
TOTAL AREA: 32.287 AC.
DATE: 12/10/18

APPLICANT: ELCON RECYCLING SERVICES
BLUE BELLS PA 19022
(865) 463-6384

JOB NO.: 2012-07083
MUNICIPAL FILE NO.: N/A

LAND DEVELOPMENT PLAN: PCSM DETAILS 1
ELCON RECYCLING
FALLS TOWNSHIP, BUCKS COUNTY, PENNSYLVANIA

SCALE: AS NOTED

DESIGNED BY: BMS
DRAWN BY: JMH
CHECKED BY: JMH

DATE: 02/07/20
DATE: 07/12/19
DATE: 04/18/19

DESCRIPTION:

1	REV.
2	1
3	1
4	1
5	1

SHEET NO.: 3