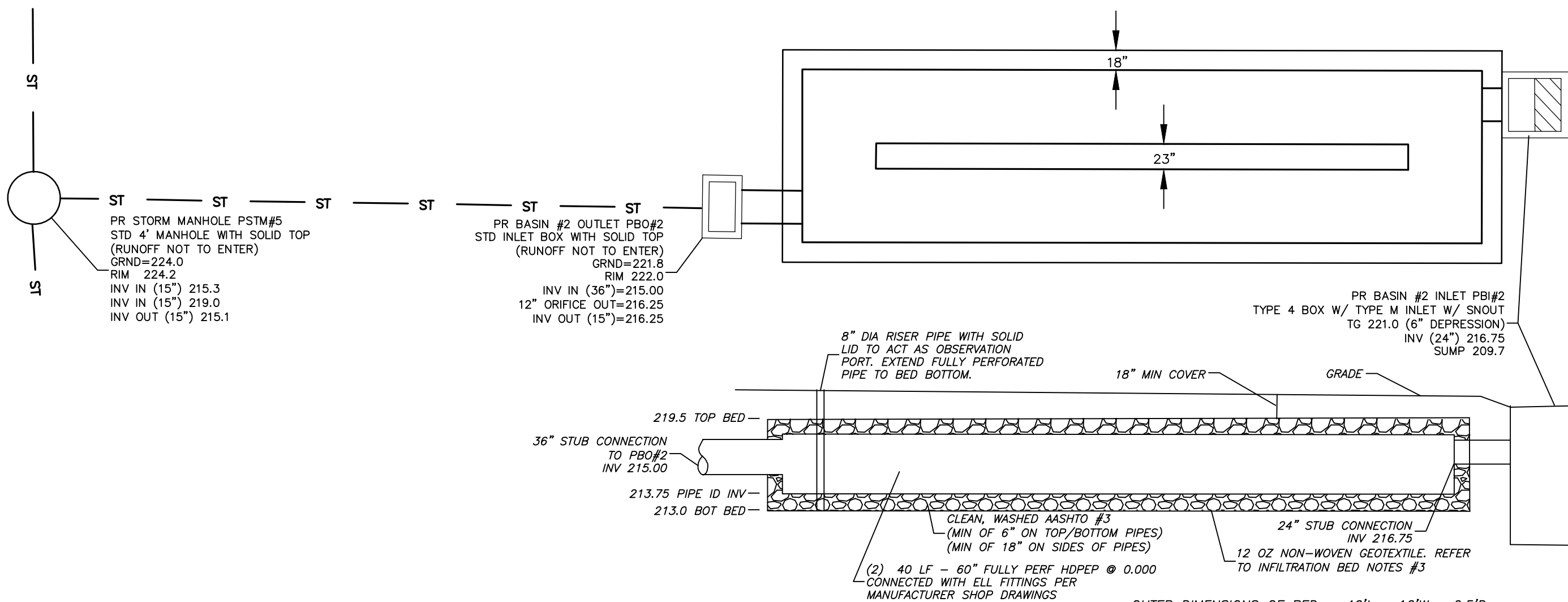


30F SNOUT OIL AND DEBRIS FILTER DETAIL 18F SNOUT OIL AND DEBRIS FILTER DETAIL



BASIN #2 INLET PBI#2

THE NOTICE OF TERMINATION MUST INCLUDE:

- (1) THE FACILITY NAME, ADDRESS AND LOCATION.
- (2) THE OPERATOR NAME AND ADDRESS.
- (3) THE PERMIT NUMBER.
- (4) THE REASON FOR PERMIT TERMINATION.
- (5) IDENTIFICATION OF THE PERSONS WHO HAVE AGREED TO AND WILL BE RESPONSIBLE FOR LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMPS IN ACCORDANCE WITH CH. 102.8(M) AND PROOF OF COMPLIANCE WITH CH. 102.8(M)(2).

BEFORE ANY STORMWATER RUNOFF CAN ENTER ANY PCSWM BMP, ALL CONTRIBUTORY UPSLOPE DRAINAGE AREAS MUST HAVE ACHIEVED FINAL STABILIZATION. FINAL STABILIZATION IS WHEN AN AREA HAS ACHIEVED A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER (STONE/PAVING) WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS.

1. MAINTAINING THE GRASS ON AND AROUND STORM WATER FACILITIES TO PREVENT LARGE VEGETATION AND ROOT SYSTEMS FROM GROWING ON OR NEAR FACILITIES AND TO PREVENT THE FORMATION OF NON-VEGETATED AREAS THAT COULD FLOW INTO AND CLOG THE FACILITIES
2. KEEPING ALL DEBRIS, INCLUDING GRASS CLIPPINGS AND LEAVES CLEAR OF INLET AND OUTLET STRUCTURES AND REMOVING ANY DEBRIS.
3. INLET AND OUTLET STRUCTURES SHALL BE INSPECTED MONTHLY.
4. NO TRUCKS OR SHOULDER BARS SHALL BE PLACED OVER THE LOCATION OF THE INFILTRATION BED.
5. IF INFILTRATION BED DOES NOT DRAIN WITHIN 72 HOURS AFTER THE LAST STORM EVENT IT SHALL BE INSPECTED AND THEN FIXED OR REPLACED AS NECESSARY.

9	30 MAR 2016	CHANGE 8" COMPOST SOCK TO 12" PER MCCD COMMENT
8	29 MAR 2016	RESPOND TO BOROUGH 25MAR16 REVIEW COMMENTS
7	7 MAR 2016	RESPOND TO MCCD 1MAR16 REVIEW COMMENTS
6	29 FEB 2016	REVISE SANITARY LAYOUT
5	22 FEB 2016	RESPOND TO BOROUGH 8JAN16 REVIEW COMMENTS
4	23 DEC 2015	RESPOND TO BOROUGH 13NOV15 REVIEW COMMENTS
3	07 DEC 2015	RESPOND TO MCCD 2DEC15 REVIEW COMMENTS
2	10 NOV 2015	COORDINATE PLANS WITH MPDES CALCS
1	6 NOV 2015	RESPOND TO BOROUGH AND MCCD COMMENTS
NUM.	DATE	REVISION

PLAN PREPARED BY:

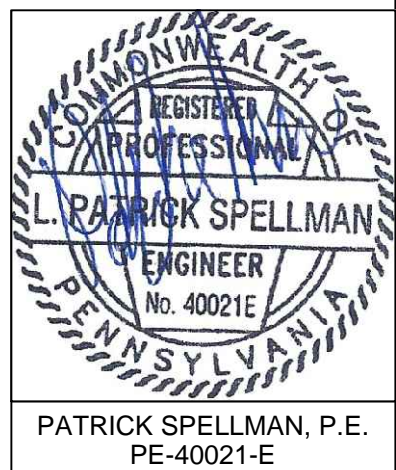
E:INFO@SITE-ENGINEERS.CO

PLAN PREPARED FOR

DATE: 8 SEPTEMBER 20

SHEET
07 of 15

SCALE



ALTERNATE ONE BAR OPTIONS FOR #13 (#14) HORIZONTAL U-BARS

PLAN VIEW - TYPE M

SECTION A-A

PLAN VIEW - TYPE S

SECTION B-B

SECTION C-C

SECTION D-D

DETAIL 1

DETAIL 2

NOTES

NOTE: EITHER ALL METRIC OR ALL ENGLISH VALUES MUST BE USED ON ALL DIMENSIONS, METRIC AND ENGLISH VALUES SHALL BE IDENTICAL.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
BUREAU OF BRIDGES

INLET TOPS, CRATES, AND FRAMES
CONCRETE TOP UNITS
TYPE M AND TYPE S

RECOMMENDED DATE 1, 2020 RECOMMENDED DATE 1, 2020
RC-425 RC-425

No.	Name	Age	Sex	Religion	Caste	Occupation	Education	Marital Status	Family Size	Income	Assets	Health	Housing	Transport	Access to Services	Notes
1	John Doe	35	Male	Christian	White	Teacher	High School	Married	4	\$12,000	House, Car	Good	Own	Own	Good	
2	Jane Smith	28	Female	Muslim	Black	Nurse	College	Married	3	\$15,000	House, Car	Good	Own	Own	Good	
3	Robert Johnson	45	Male	Hindu	Red	Farmer	Primary	Married	5	\$8,000	House	Fair	Rent	Rent	Fair	
4	Emily White	22	Female	Buddhist	Yellow	Student	University	Single	1	\$5,000	House	Good	Rent	Rent	Good	
5	Michael Brown	50	Male	Sikh	Blue	Businessman	College	Married	6	\$20,000	House, Car, Land	Good	Own	Own	Good	
6	Sarah Green	30	Female	Jain	Pink	Doctor	Medical School	Married	3	\$18,000	House, Car	Good	Own	Own	Good	
7	David Black	40	Male	Christian	White	Engineer	University	Married	4	\$14,000	House, Car	Good	Own	Own	Good	
8	Lisa Grey	25	Female	Muslim	Black	Teacher	High School	Married	3	\$9,000	House	Fair	Rent	Rent	Fair	
9	James Blue	38	Male	Hindu	Red	Farmer	Primary	Married	5	\$7,000	House	Fair	Rent	Rent	Fair	
10	Alice Red	20	Female	Buddhist	Yellow	Student	University	Single	1	\$4,000	House	Good	Rent	Rent	Good	
11	Kevin Yellow	48	Male	Sikh	Blue	Businessman	College	Married	6	\$19,000	House, Car, Land	Good	Own	Own	Good	
12	Michelle Purple	27	Female	Jain	Pink	Doctor	Medical School	Married	3	\$17,000	House, Car	Good	Own	Own	Good	
13	Christopher Green	33	Male	Christian	White	Engineer	University	Married	4	\$13,000	House, Car	Good	Own	Own	Good	
14	Stephanie Brown	24	Female	Muslim	Black	Teacher	High School	Married	3	\$8,500	House	Fair	Rent	Rent	Fair	
15	Daniel Black	42	Male	Hindu	Red	Farmer	Primary	Married	5	\$6,500	House	Fair	Rent	Rent	Fair	
16	Olivia Grey	19	Female	Buddhist	Yellow	Student	University	Single	1	\$3,500	House	Good	Rent	Rent	Good	
17	Benjamin Blue	49	Male	Sikh	Blue	Businessman	College	Married	6	\$18,500	House, Car, Land	Good	Own	Own	Good	
18	Victoria Purple	26	Female	Jain	Pink	Doctor	Medical School	Married	3	\$16,500	House, Car	Good	Own	Own	Good	
19	Gregory Green	31	Male	Christian	White	Engineer	University	Married	4	\$12,500	House, Car	Good	Own	Own	Good	
20	Isabella Brown	23	Female	Muslim	Black	Teacher	High School	Married	3	\$8,000	House	Fair	Rent	Rent	Fair	
21	Lucas Black	41	Male	Hindu	Red	Farmer	Primary	Married	5	\$6,000	House	Fair	Rent	Rent	Fair	
22	Sophia Grey	18	Female	Buddhist	Yellow	Student	University	Single	1	\$3,000	House	Good	Rent	Rent	Good	
23	Alexander Blue	47	Male	Sikh	Blue	Businessman	College	Married	6	\$17,500	House, Car, Land	Good	Own	Own	Good	
24	Charlotte Purple	25	Female	Jain	Pink	Doctor	Medical School	Married	3	\$16,000	House, Car	Good	Own	Own	Good	
25	Benjamin Green	30	Male	Christian	White	Engineer	University	Married	4	\$12,000	House, Car	Good	Own	Own	Good	
26	Amelia Brown	22	Female	Muslim	Black	Teacher	High School	Married	3	\$7,500	House	Fair	Rent	Rent	Fair	
27	Isaac Black	40	Male	Hindu	Red	Farmer	Primary	Married	5	\$5,500	House	Fair	Rent	Rent	Fair	
28	Evelyn Grey	17	Female	Buddhist	Yellow	Student	University	Single	1	\$2,500	House	Good	Rent	Rent	Good	
29	William Blue	46	Male	Sikh	Blue	Businessman	College	Married	6	\$17,000	House, Car, Land	Good	Own	Own	Good	
30	Grace Purple	24	Female	Jain	Pink	Doctor	Medical School	Married	3	\$15,500	House, Car	Good	Own	Own	Good	
31	Henry Green	29	Male	Christian	White	Engineer	University	Married	4	\$11,500	House, Car	Good	Own	Own	Good	

FIGURE 1

PLAN - INLET BOXES

TYPE 1

PIPE SPACING - OUTSIDE DIMENSION
OUTSIDE FACE - 10'0" (9'7 1/2" MIN. MAX.)

TYPE 2

PIPE SPACING - OUTSIDE DIMENSION
OUTSIDE FACE - 4'0" (3'7 1/2" MIN. MAX.)

TYPE 3

PIPE SPACING - OUTSIDE DIMENSION
OUTSIDE FACE - 4'0" (3'7 1/2" MIN. MAX.)

TYPE 4

PIPE SPACING - OUTSIDE DIMENSION
OUTSIDE FACE - 4'0" (3'7 1/2" MIN. MAX.)

TYPE 5

PIPE SPACING - OUTSIDE DIMENSION
OUTSIDE FACE - 4'0" (3'7 1/2" MIN. MAX.)

TYPE 6

PIPE SPACING - OUTSIDE DIMENSION
OUTSIDE FACE - 4'0" (3'7 1/2" MIN. MAX.)

TYPE 7

PIPE SPACING - OUTSIDE DIMENSION
OUTSIDE FACE - 4'0" (3'7 1/2" MIN. MAX.)

TYPE 8

PIPE SPACING - OUTSIDE DIMENSION
OUTSIDE FACE - 4'0" (3'7 1/2" MIN. MAX.)

TYPE 9

PIPE SPACING - OUTSIDE DIMENSION
OUTSIDE FACE - 4'0" (3'7 1/2" MIN. MAX.)

TYPE 10

PIPE SPACING - OUTSIDE DIMENSION
OUTSIDE FACE - 4'0" (3'7 1/2" MIN. MAX.)

INLET BOX SCHEMATIC

LEGEND

OUTSIDE FACE - OUTSIDE FACE OF INLET BOX WALL
INLET FACE - INSIDE FACE OF INLET BOX WALL

SECTION A-A

SECTION B-B

SECTION C-C

SECTION D-D

SECTION E-E

SECTION F-F

SECTION G-G

SECTION H-H

SECTION I-I

SECTION J-J

SECTION K-K

SECTION L-L

SECTION M-M

SECTION N-N

SECTION O-O

SECTION P-P

SECTION Q-Q

SECTION R-R

SECTION S-S

SECTION T-T

SECTION U-U

SECTION V-V

SECTION W-W

SECTION X-X

SECTION Y-Y

SECTION Z-Z

SECTION AA-AA

SECTION BB-BB

SECTION CC-CC

SECTION DD-DD

SECTION EE-EE

SECTION FF-FF

SECTION GG-GG

SECTION HH-HH

SECTION II-II

SECTION JJ-JJ

SECTION KK-KK

SECTION LL-LL

SECTION MM-MM

SECTION NN-NN

SECTION OO-OO

SECTION PP-PP

SECTION QQ-QQ

SECTION RR-RR

SECTION SS-SS

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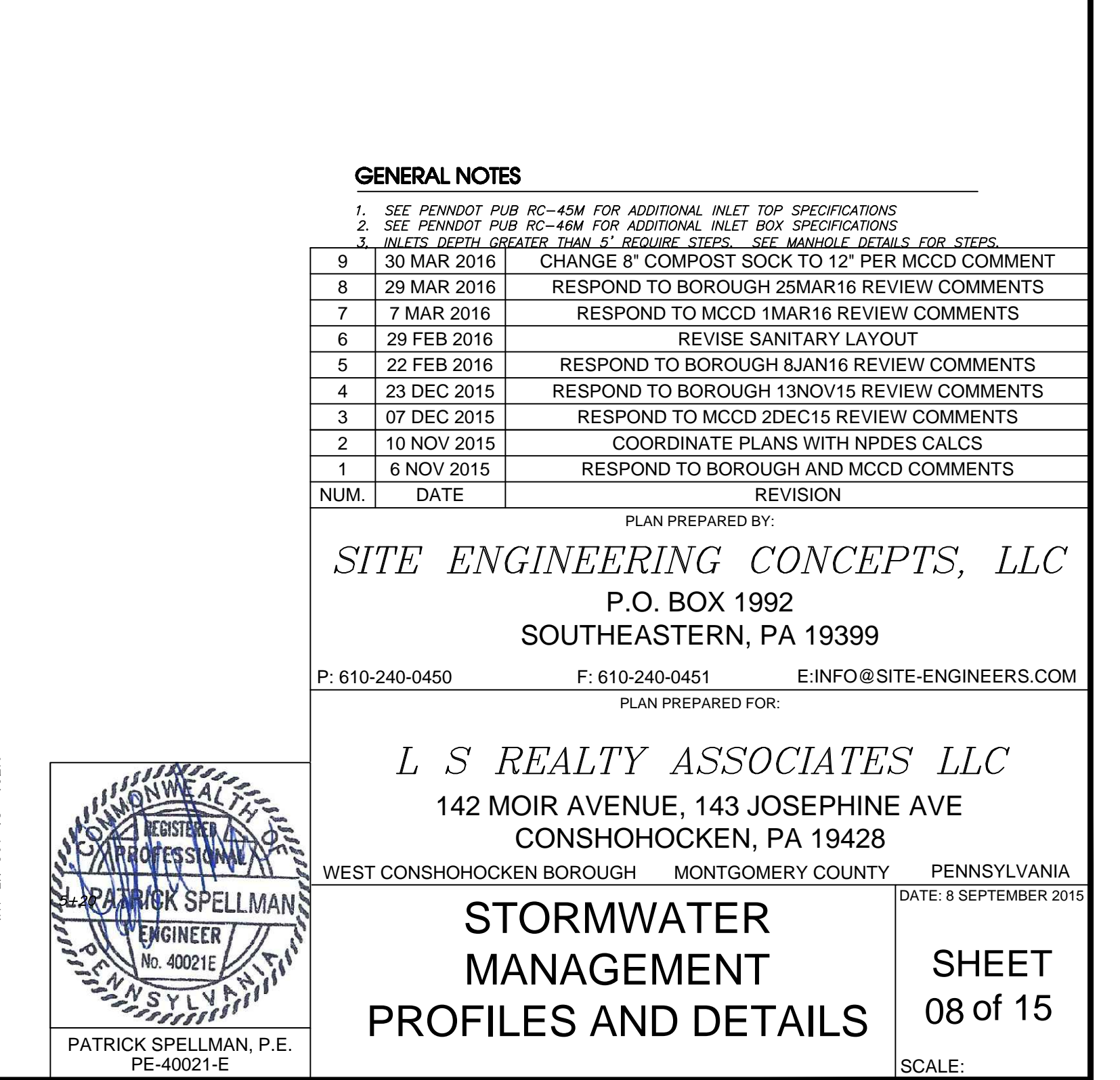
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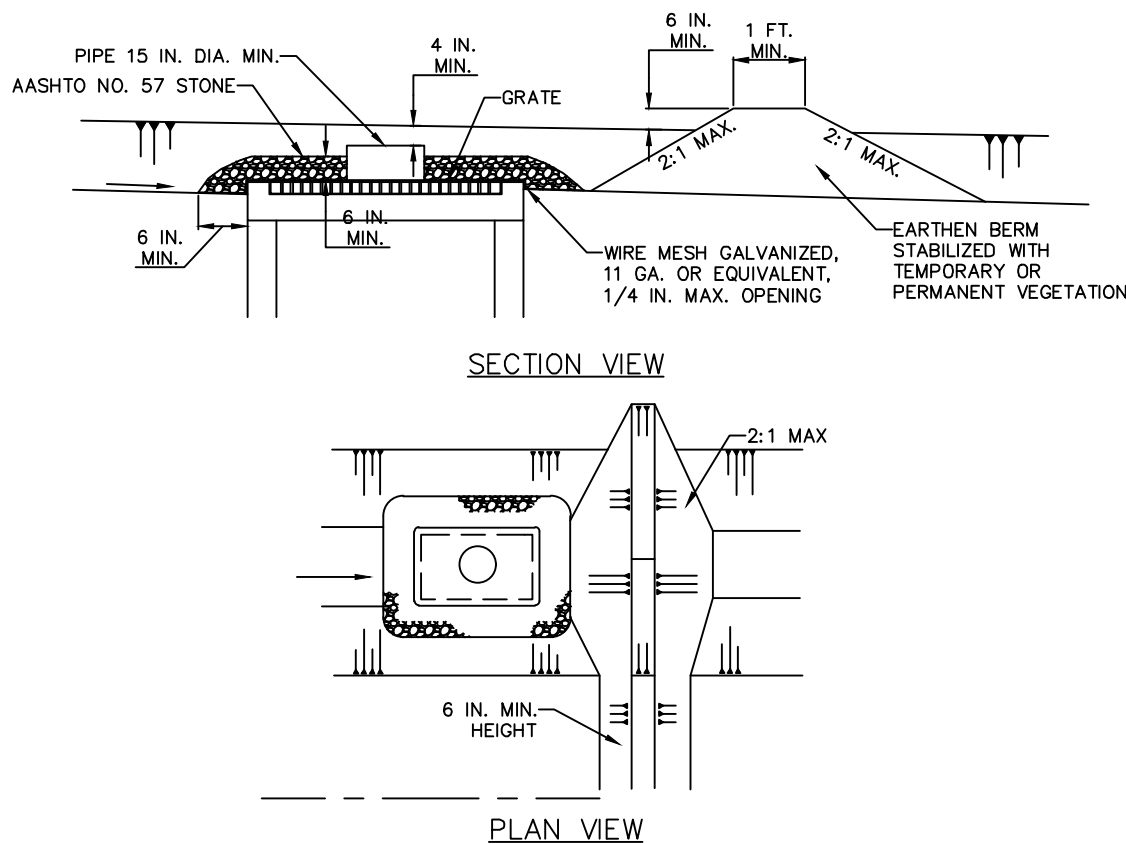
SEEDING AND MULCHING SPECIFICATIONS

TEMPORARY

- SEEDING SHALL BE COMMON RYE GRASS APPLIED AT 45 LBS. PER ACRE
 - LIMING TO BE APPLIED AT 1 TON/ACRE
 - 5-5-5 FERTILIZER TO BE APPLIED AT 1000 LBS/ACRE
 - HAY OR STRAW MULCH TO BE APPLIED AT 3 TONS/ACRE
- PERMANENT
- SEEDING SHALL BE 15% KENTUCKY BLUEGRASS, 30% KENTUCKY 31 FESCUE, 55% CHARMING FESCUE, 15% PERENNIAL RYE GRASS AND 10% RECLEANED REDTOP AT A RATE OF 5 LBS PER 1000 SF
 - LIMING TO BE APPLIED AT 2 TONS PER ACRE
 - 10-20-20 FERTILIZER TO BE APPLIED AT 1000 LBS/ACRE
 - HAY OR STRAW MULCH TO BE APPLIED AT 3 TONS/ACRE
- THE NON-GERMINATING PERIODS ARE BETWEEN JUNE 15 THRU AUGUST 15 AND SEPTEMBER 30 THRU APRIL 15. AREAS DISTURBED DURING THESE PERIODS MUST BE LIMED, FERTILIZED, SEEDING AND MULCHED IMMEDIATELY.
- EROSION CONTROL BLANKET TO BE USED ON ALL SLOPES GREATER THAN 3:1
- TEMPORARY APPLICATIONS: ERONET S75 (NORTH AMERICAN GREEN)
 - PERMANENT APPLICATIONS: ERONET F500 (NORTH AMERICAN GREEN)

UTILITY LINE TRENCH EXCAVATION NOTES

- LIMIT ADVANCED CLEARING AND GRUBBING OPERATIONS TO A DISTANCE EQUAL TO TWO TIMES THE LENGTH OF PIPE INSTALLATION THAT CAN BE COMPLETED IN ONE DAY.
- WORK CREWS AND EQUIPMENT FOR TRENCHING, PLACEMENT OF PIPE, PLUG CONSTRUCTION AND BACKFILLING WILL BE SELF-CONTAINED AND SEPARATE FROM CLEARING AND GRUBBING AND SITE RESTORATION AND STABILIZATION OPERATIONS.
- LIMIT DAILY TRENCH EXCAVATION TO THE LENGTH OF PIPE PLACEMENT, PLUG INSTALLATION AND BACKFILLING THAT CAN BE COMPLETED THE SAME DAY.
- LIMIT DAILY TRENCH EXCAVATION TO THE LENGTH OF PIPE PLACEMENT, PLUG INSTALLATION AND BACKFILLING THAT CAN BE COMPLETED THE SAME DAY.
- WATER WHICH ACCUMULATES IN THE OPEN TRENCH WILL BE COMPLETELY REMOVED BY PUMPING BEFORE PIPE PLACEMENT AND/OR BACKFILLING BEGINS. WATER REMOVED FROM THE TRENCH SHALL BE PUMPED TO AN APPROPRIATE LOCATION.
- ON THE DATE FOLLOWING PIPE PLACEMENT AND TRENCH BACKFILLING, THE DISTURBED AREA WILL BE GRADED TO FINAL CONTOURS AND IMMEDIATELY STABILIZED.



NOTES:

INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS NOT LOCATED AT A LOW POINT.

ROLLED EARTHEN BERM IN ROADWAY SHALL BE PROVIDED AND MAINTAINED IMMEDIATELY DOWN GRADIENT OF THE PROTECTED INLET UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. EARTHEN BERM IN CHANNEL SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED OR TO REMAIN PERMANENTLY.

STONE INLET PROTECTION AND BERM FOR A TYPE M INLET CAN BE USED IN ONE ACRE MAXIMUM DRAINAGE AREA WITH 15 IN. OVERFLOW PIPE AND 4 IN. HEAD. A PERFORATED PLATE WELDED TO A METAL RISER MAY NOT BE SUBSTITUTED FOR THE WIRE MESH. A SLOTTED PLATE WELDED TO THE RISER MAY BE USED IN CONJUNCTION WITH THE WIRE MESH IF CALCULATIONS ARE PROVIDED TO SHOW SUFFICIENT CAPACITY OF THE INLET TO ACCEPT THE PEAK RUNOFF FOR A 2-YEAR STORM EVENT FROM THE TRIBUTARY DRAINAGE AREA. TOP OF PIPE SHALL BE AT LEAST 6 INCHES BELOW ADJACENT ROADWAY IF PONDED WATER WOULD POSE A SAFETY HAZARD TO TRAFFIC. EARTHEN BERM SHALL BE ROLLED.

SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE HEIGHT OF THE STONE. DAMAGED OR CLOGGED INSTALLATIONS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

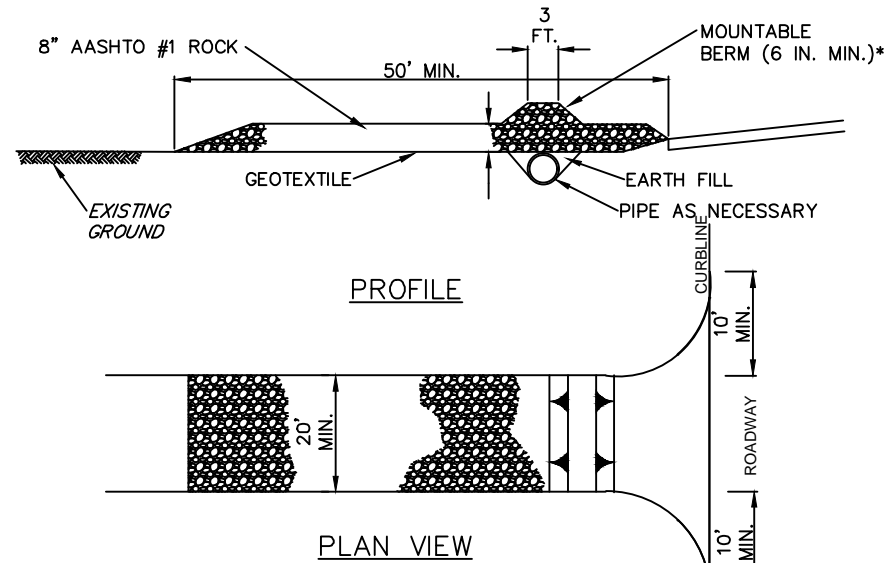
FOR SYSTEMS DISCHARGING TO HO OR EV SURFACE WATER, A 6 IN. THICK COMPOST LAYER SHALL BE SECURELY ANCHORED ON OUTSIDE AND OVER TOP OF STONE. COMPOST SHALL MEET THE STANDARDS IN TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.

DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

STANDARD CONSTRUCTION DETAIL #4-20

STONE INLET PROTECTION AND BERM - TYPE M INLET

NOT TO SCALE



NOTES:

REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK OVER FULL WIDTH OF ENTRANCE.

RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.

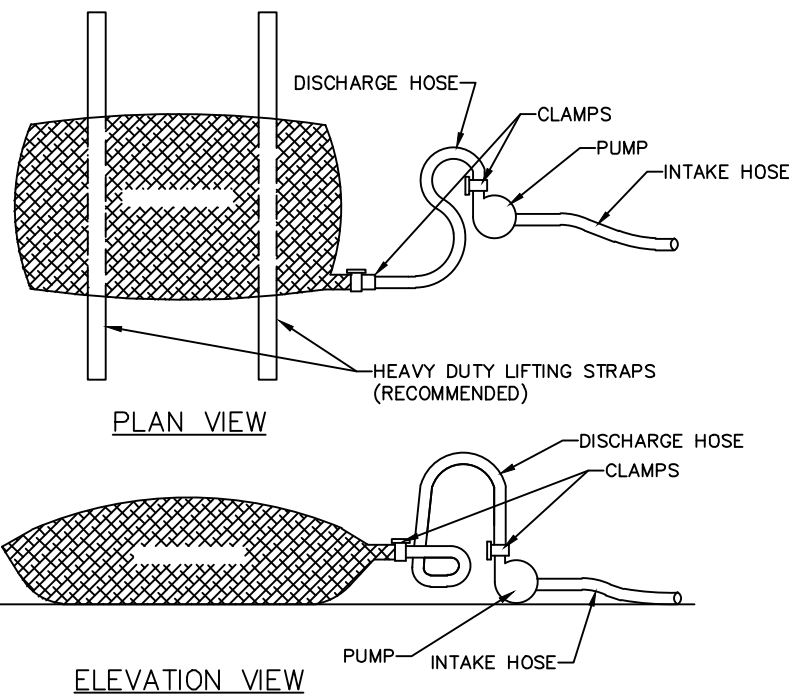
MOUNTABLE BERM SHALL BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED AND PROPER PIPE COVER AS SPECIFIED BY MANUFACTURER IS NOT OTHERWISE PROVIDED. PIPE SHALL BE SIZED APPROPRIATELY FOR SIZE OF DITCH BEING CROSSED.

MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY, EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH ROCK WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.

STANDARD CONSTRUCTION DETAIL #3-1

ROCK CONSTRUCTION ENTRANCE

NOT TO SCALE



NOTES:

LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS. HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE FOLLOWING STANDARDS:

PROPERTY	TEST METHOD	MINIMUM STANDARD
AVG. WIDE WIDTH STRENGTH	ASTM D-4884	60 LB/IN
GRAB TENSILE	ASTM D-4832	205 LB
PUNCTURE	ASTM D-4833	110 LB
MULLEN BURST	ASTM D-3786	350 PSI
UV RESISTANCE	ASTM D-4355	70%
ACS % RETAINED	ASTM D-1751	80 SIEVE

A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRIPS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED.

BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS, WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 2% FOR SLOPES EXCEEDING 2% CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.

NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HO OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.

THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.

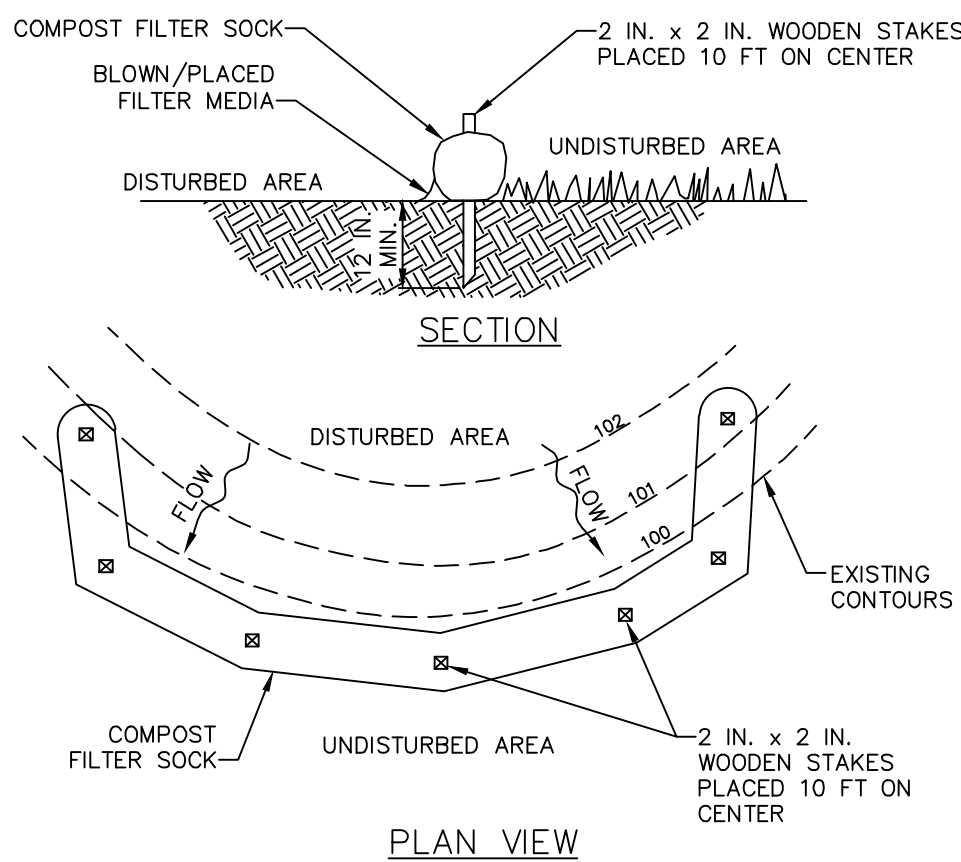
THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.

FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

STANDARD CONSTRUCTION DETAIL #3-16

PUMPED WATER FILTER BAG

NOT TO SCALE



NOTES:

SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.

COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.

TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.

ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.

COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.

BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

STANDARD CONSTRUCTION DETAIL #4-1

COMPOST FILTER SOCK

NOT TO SCALE

SOCK NO.	DIAM.	LOCATION	SLOPE %	SLOPE LENGTH (FT)
SLOPE A	18	1ST SEGMENT	35	23
SLOPE A	18	2ND SEGMENT	6	144
SLOPE B	32	1ST SEGMENT	48	34
SLOPE B	32	2ND SEGMENT	8	25
SLOPE B	32	3RD SEGMENT	21	26
SLOPE B	32	4TH SEGMENT	19	97
SLOPE C	18	1ST SEGMENT	13	87
SLOPE D	8	1ST SEGMENT	6	87

CLEAN FILL NOTES

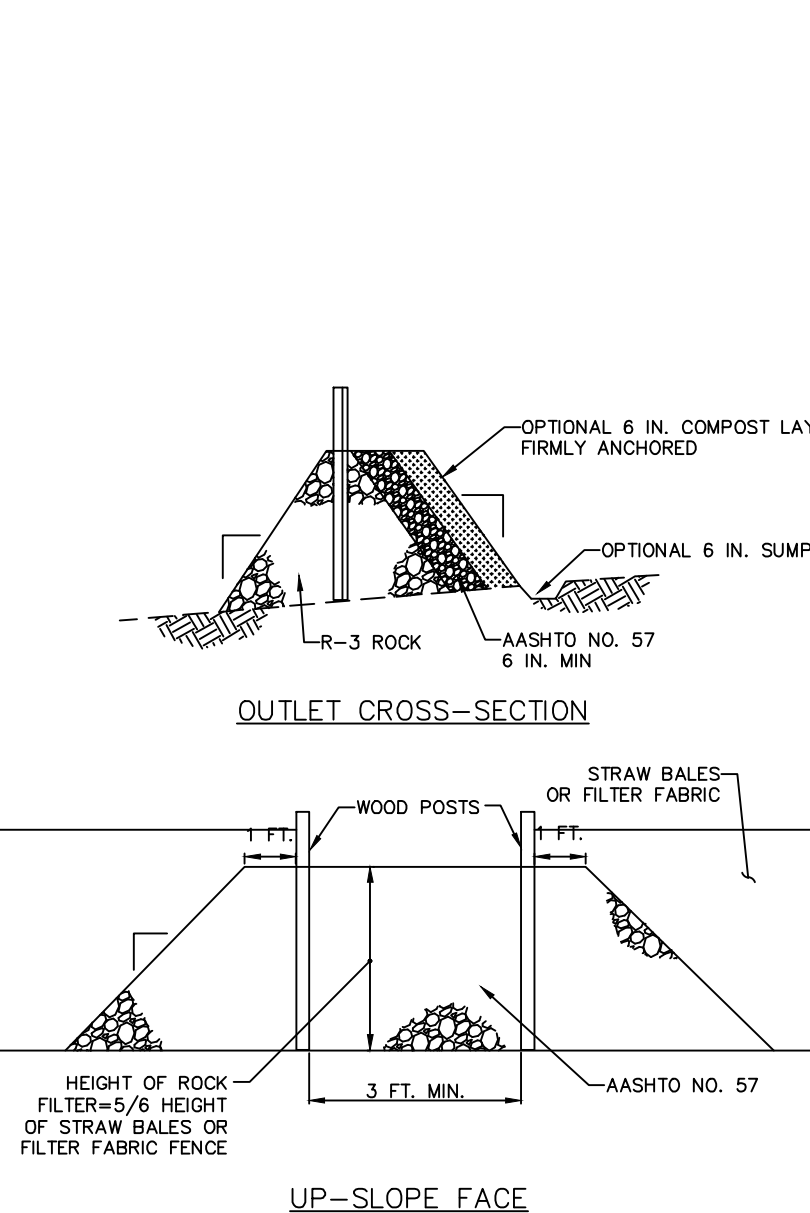
IF THE SITE WILL NEED TO IMPORT OR EXPORT MATERIAL FROM THE SITE, THE RESPONSIBILITY FOR PERFORMING ENVIRONMENTAL DUE DILIGENCE AND DETERMINATION OF CLEAN FILL WILL REST WITH THE CONTRACTOR.

CLEAN FILL IS DEFINED AS: UNCONTAMINATED, NON-WATER SOLUBLE, NON-DECOMPOSABLE, INERT, SOLID MATERIAL. THE TERM INCLUDES SOIL, ROCK, STONE, DREDGED MATERIAL, USED ASPHALT, AND BRICK, BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND IS RECOGNIZABLE AS SUCH. THE TERM DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE WATERS OF THE COMMONWEALTH UNLESS OTHERWISE AUTHORIZED. (THE TERM "USED ASPHALT" DOES NOT INCLUDE MILLED ASPHALT OR ASPHALT THAT HAS BEEN PROCESSED FOR RE-USE).

CLEAN FILL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE: FILL MATERIALS AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE: STILL QUALIFIES AS CLEAN FILL PROVIDED THE TESTING REVEALS THAT THE FILL MATERIAL CONTAINS CONCENTRATIONS OF REGULATED SUBSTANCES THAT ARE BELOW THE RESIDENTIAL LIMITS IN TABLES FP-1A AND FP-1B FOUND IN THE DEPARTMENT'S POLICY MANAGEMENT OF FILL.

ANY PERSON PLACING CLEAN FILL THAT HAS BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE MUST USE FORM FP-001 TO CERTIFY THE ORIGIN OF THE FILL MATERIAL AND THE RESULTS OF THE ANALYTICAL TESTING TO QUALIFY THE MATERIAL AS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE OWNER OF THE PROPERTY RECEIVING THE FILL. A COPY OF FORM FP-001 CAN BE FOUND AT THE END OF THESE INSTRUCTIONS.

ENVIRONMENTAL DUE DILIGENCE: THE APPLICANT MUST PERFORM ENVIRONMENTAL DUE DILIGENCE TO DETERMINE IF THE FILL MATERIALS ASSOCIATED WITH THE PROJECT QUALIFY AS CLEAN FILL. ENVIRONMENTAL DUE DILIGENCE IS DEFINED AS: INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO: VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS. ANALYTICAL TESTING IS NOT A REQUIRED PART OF DUE DILIGENCE UNLESS VISUAL INSPECTION AND/OR REVIEW OF THE PAST LAND USE OF THE PROPERTY INDICATES THAT THE FILL MAY HAVE BEEN SUBJECTED TO A SPILL OR RELEASE OF A REGULATED SUBSTANCE. IF THE FILL MAY HAVE BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE, IT MUST BE TESTED TO DETERMINE IF IT QUALIFIES AS CLEAN FILL. TESTING SHOULD BE PERFORMED IN ACCORDANCE WITH APPENDIX A OF THE DEPARTMENT'S POLICY MANAGEMENT OF FILL. REGULATED FILL MATERIAL THAT DOES NOT QUALIFY AS CLEAN FILL IS REGULATED FILL. REGULATED FILL IS WASTE AND MUST BE MANAGED IN ACCORDANCE WITH THE DEPARTMENT'S MUNICIPAL OR RESIDUAL WASTE REGULATIONS BASED ON 25 PA. CODE CHAPTERS 287 RESIDUAL WASTE MANAGEMENT OR 271 MUNICIPAL WASTE MANAGEMENT, WHICHEVER IS APPLICABLE. THESE REGULATIONS ARE AVAILABLE ON-LINE AT WWW.PACODE.COM.



NOTES:

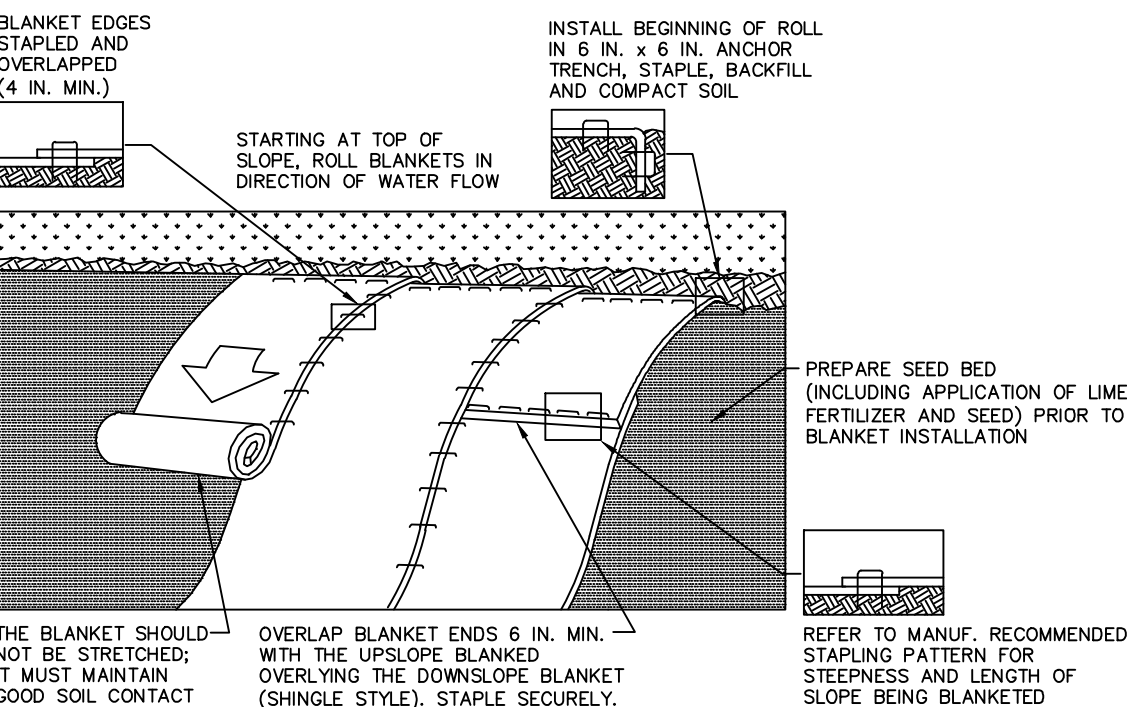
A ROCK FILTER OUTLET SHALL BE INSTALLED WHERE FAILURE OF A SILT FENCE OR STRAW BALE BARRIER HAS OCCURRED DUE TO CONCENTRATED FLOW, AND/OR WHEN COMPOST LAYER SHALL BE USED ON UPSLOPE FACE IN HO AND EV WATERSHEDS.

SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH 1/3 THE HEIGHT OF THE OUTLET.

STANDARD CONSTRUCTION DETAIL #4-6

ROCK FILTER OUTLET

NOT TO SCALE



NOTES:

SEED AND SOIL AMENDMENTS SHALL BE APPLIED ACCORDING TO THE RATES IN THE PLAN DRAWINGS PRIOR TO INSTALLING THE BLANKET.

PROVIDE ANCHOR TRENCH AT TOE OF SLOPE IN SIMILAR FASHION AS AT TOP OF SLOPE.

SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS, AND GRASS.

BLANKET SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING SOIL THROUGHOUT ENTIRE LENGTH. LAY BLANKET LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH SOIL. DO NOT STRETCH BLANKET.

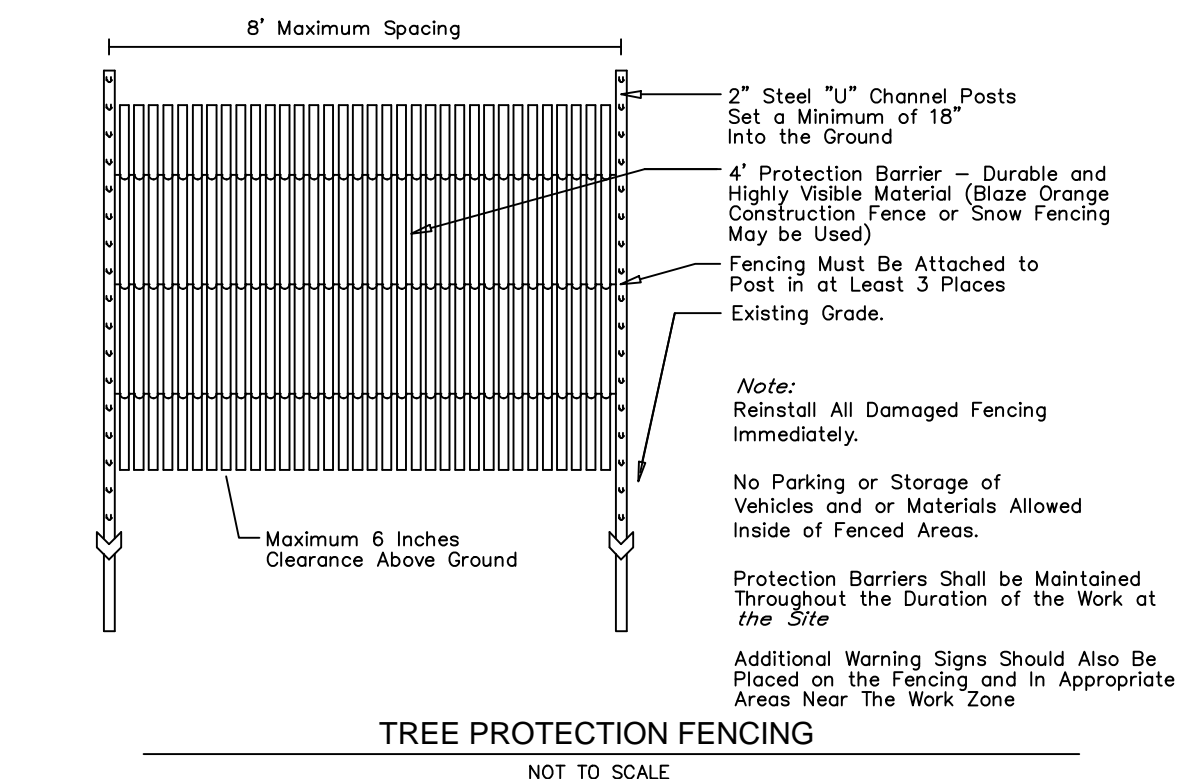
THE BLANKET SHALL BE STAPLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED AT A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED AREA. DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS.

STANDARD CONSTRUCTION DETAIL #11-1

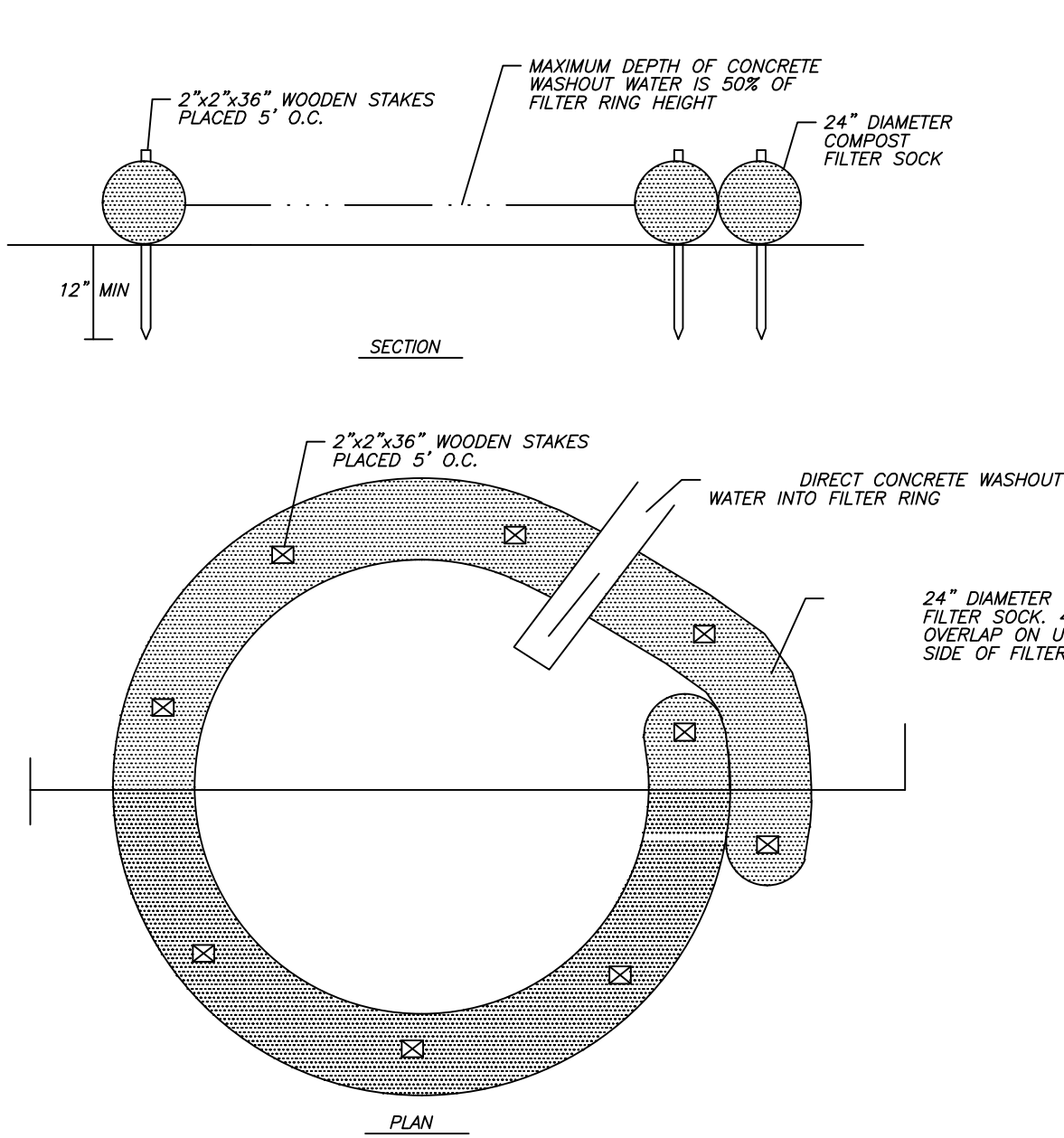
EROSION CONTROL BLANKET INSTALLATION

NOT TO SCALE



TREE PROTECTION FENCING

NOT TO SCALE



INSTALLATION NOTES:

- A SUITABLE IMPERVIOUS GEOMEMBRANE SHALL BE PLACED AT THE LOCATION OF THE WASHOUT PRIOR TO INSTALLING THE SOCKS. CARE SHOULD BE TAKEN TO ENSURE CONTINUOUS CONTACT OF THE SOCK WITH THE GEOMEMBRANE AT ALL LOCATIONS.
- INSTALL ON FLAT GRADE. OPTIMUM PERFORMANCE.
- 18" DIAMETER FILTER SOCK MAY BE STACKED ONTO DOUBLE 24" DIAMETER SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT.
- FOR MORE INFORMATION CONTACT WEBSITE <http://www.filtersock.com>

GENERAL NOTES:

- FOR ANY PROJECT ON WHICH CONCRETE WILL BE POURED OR OTHERWISE FORMED ON-SITE, A SUITABLE WASHOUT FACILITY MUST BE PROVIDED FOR CLEANING OF SHOES, JACKS, AND HOPPERS FOR THE DELIVERY VEHICLES UNLESS ALL DELIVERY VEHICLES WILL BE CLEANED OFFSITE.
- UNDER NO CIRCUMSTANCES MAY WASH WATER BE ALLOWED TO ENTER ANY SURFACE WATERS.
- WASHOUT FACILITIES MUST BE MORE THAN 50 FEET FROM STORM DRAINS, OPEN DITCHES, AND SURFACE WATERS.
- NOTIFICATION MUST BE PROVIDED TO DRIVERS SO THEY ARE AWARE OF THE WASHOUT FACILITIES.

MAINTENANCE NOTES:

- CONCRETE WASHOUT FACILITIES SHOULD BE INSPECTED DAILY. DAMAGED OR LEAKING WASHOUTS SHOULD BE DEACTIVATED AND REPAIRED OR REPLACED IMMEDIATELY.
- ACCUMULATED MATERIALS SHOULD BE REMOVED WHEN THEY REACH 75% CAPACITY.
- PLASTIC LINERS SHOULD BE REPLACED WITH EACH CLEANING OF THE WASHOUT FACILITY.

CONCRETE WASHOUT DETAIL (USING COMPOST SOCK)

(TAKEN FROM 2012 PA DEP EASPC PROGRAM MANUAL PG 58)

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1	6 NOV 2015	RESPOND TO BOROUGH AND MCCD COMMENTS

NUM. DATE REVISION

PLAN PREPARED BY:

SITE ENGINEERING CONCEPTS, LLC

P.O. BOX 1992

SOUTHEASTERN, PA 19399

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PLAN PREPARED FOR:

L S REALTY ASSOCIATES LLC

142 MOIR AVENUE, 143 JOSEPHINE AVE

CONSHOHOCKEN, PA 19428

WEST CONSHOHOCKEN BOROUGH MONTGOMERY COUNTY PENNSYLVANIA

DATE: 8 SEPTEMBER 2015

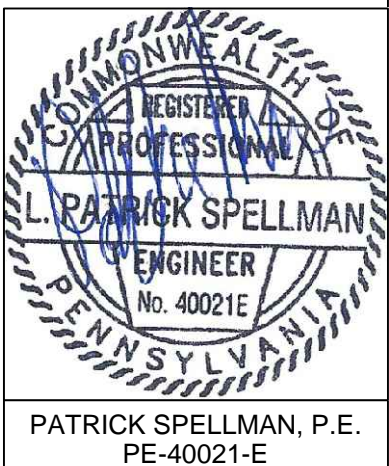
EROSION AND SEDIMENT

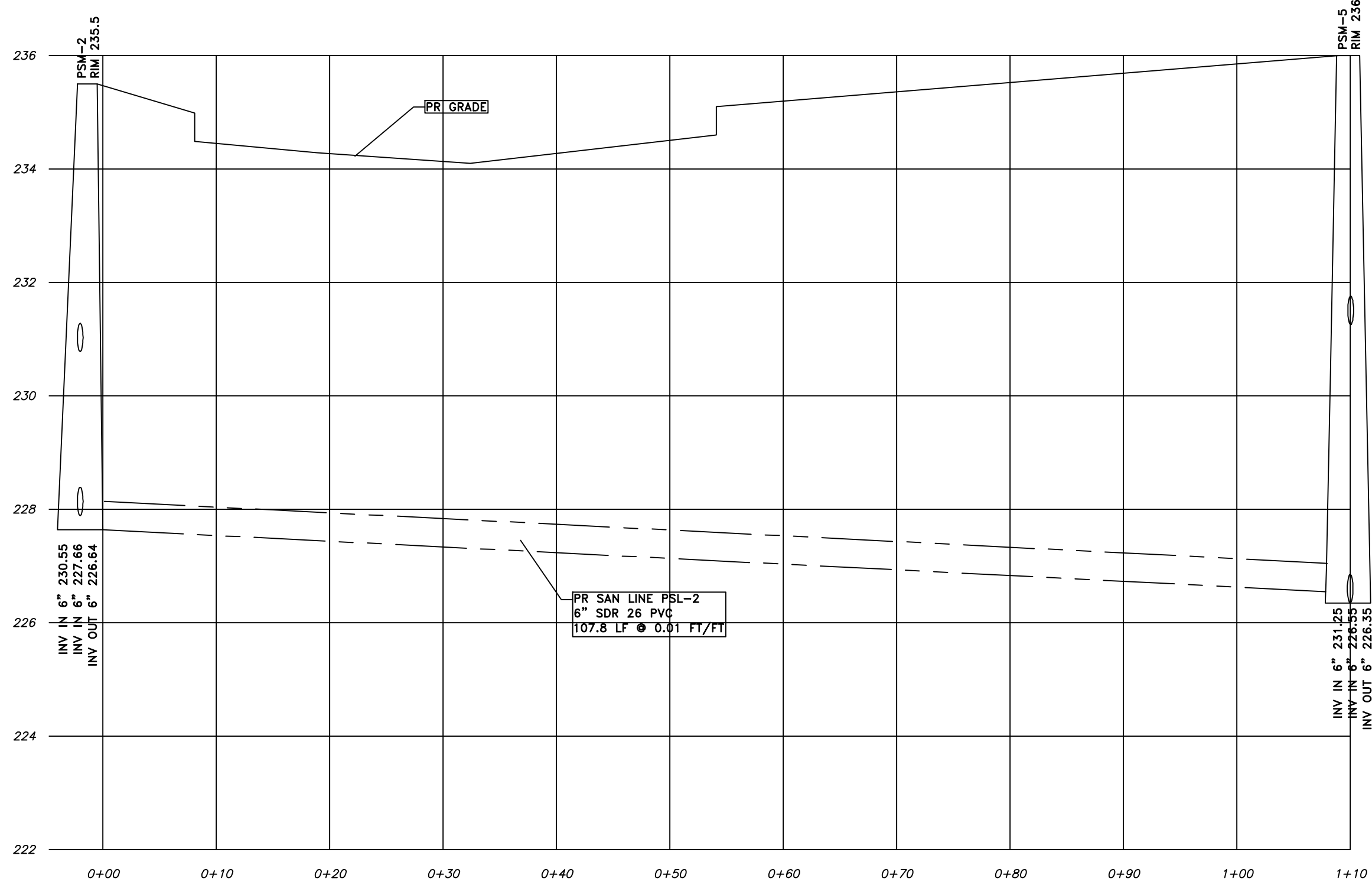
CONTROL DETAILS

SHEET

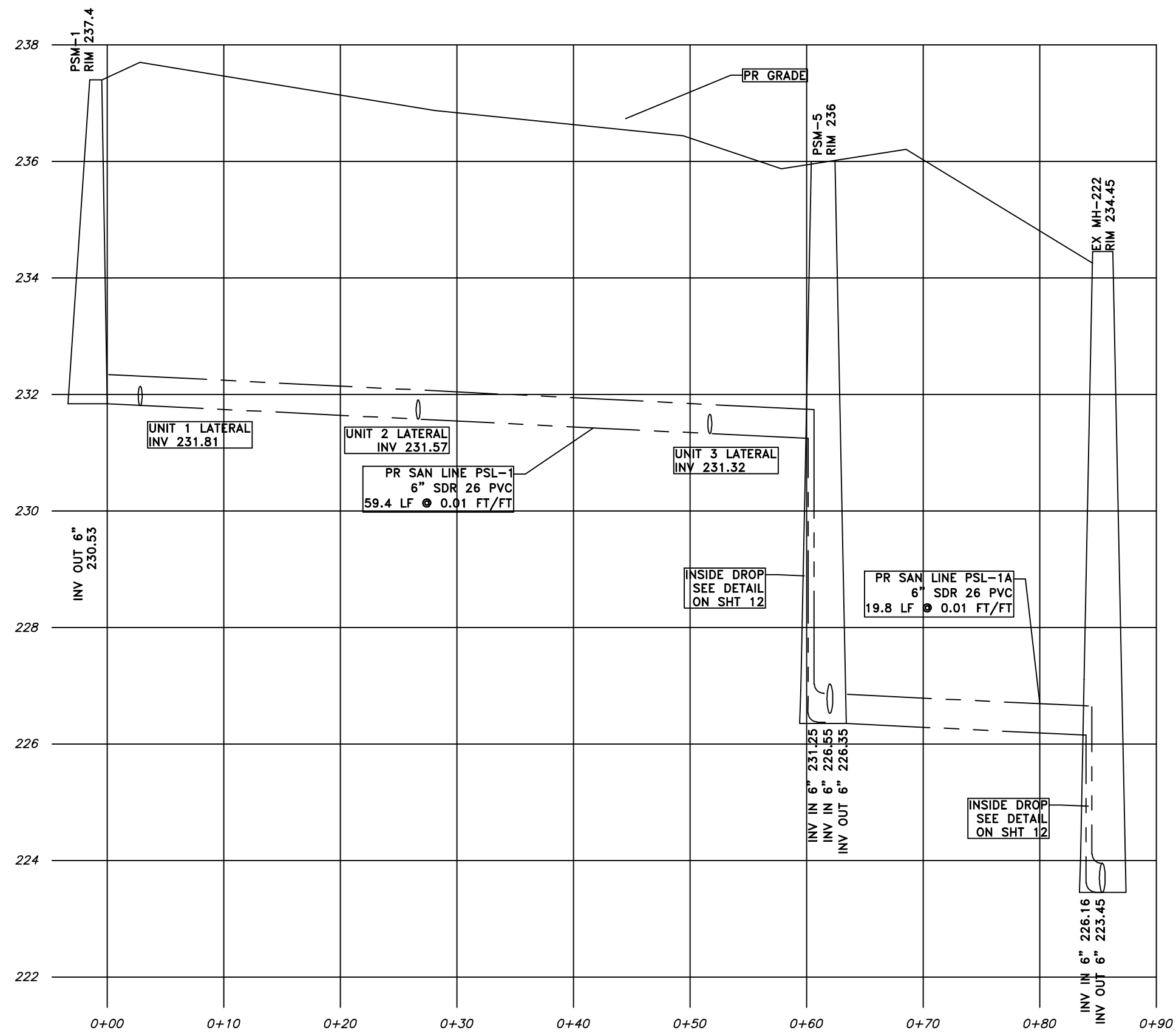
09of 15

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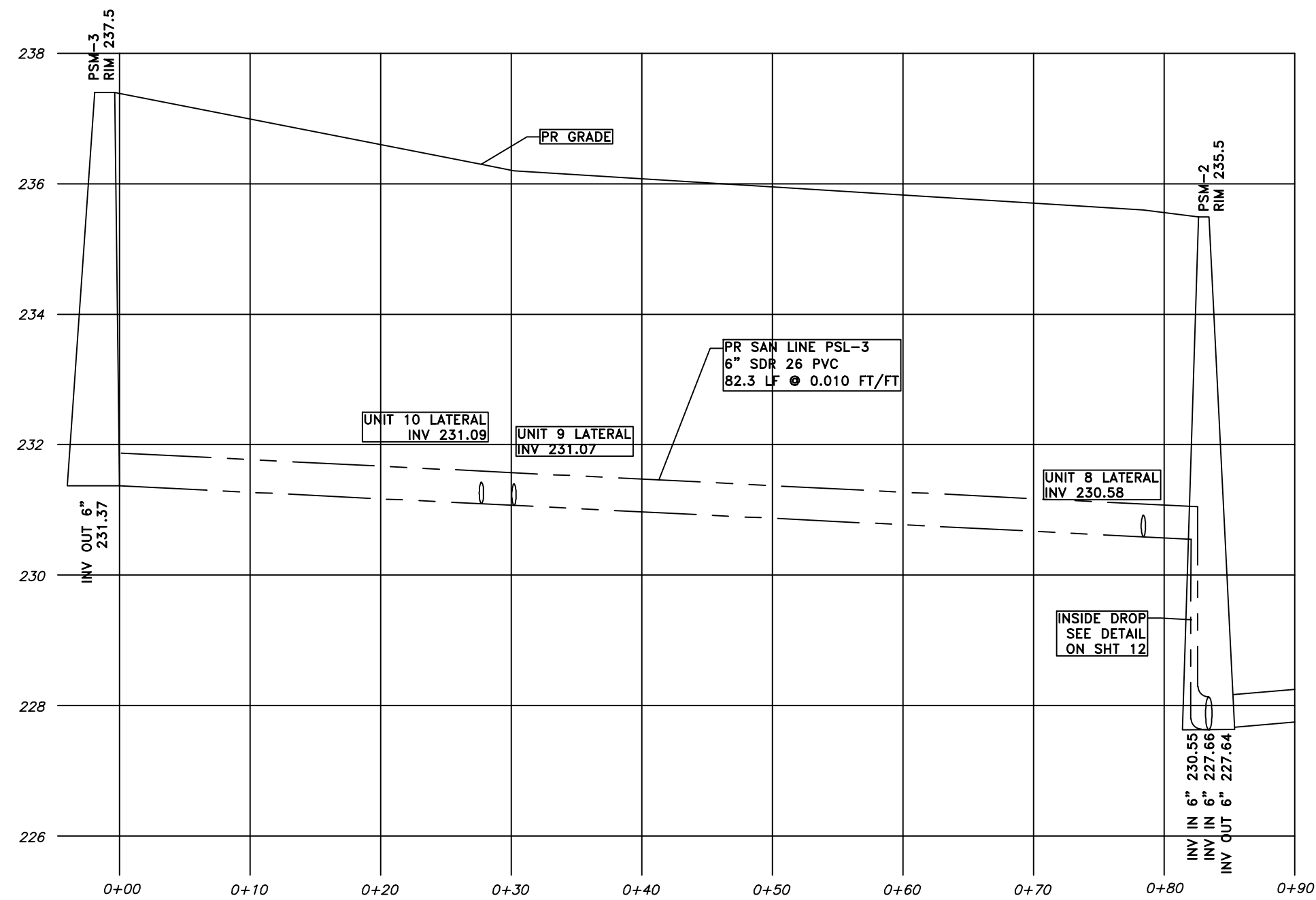




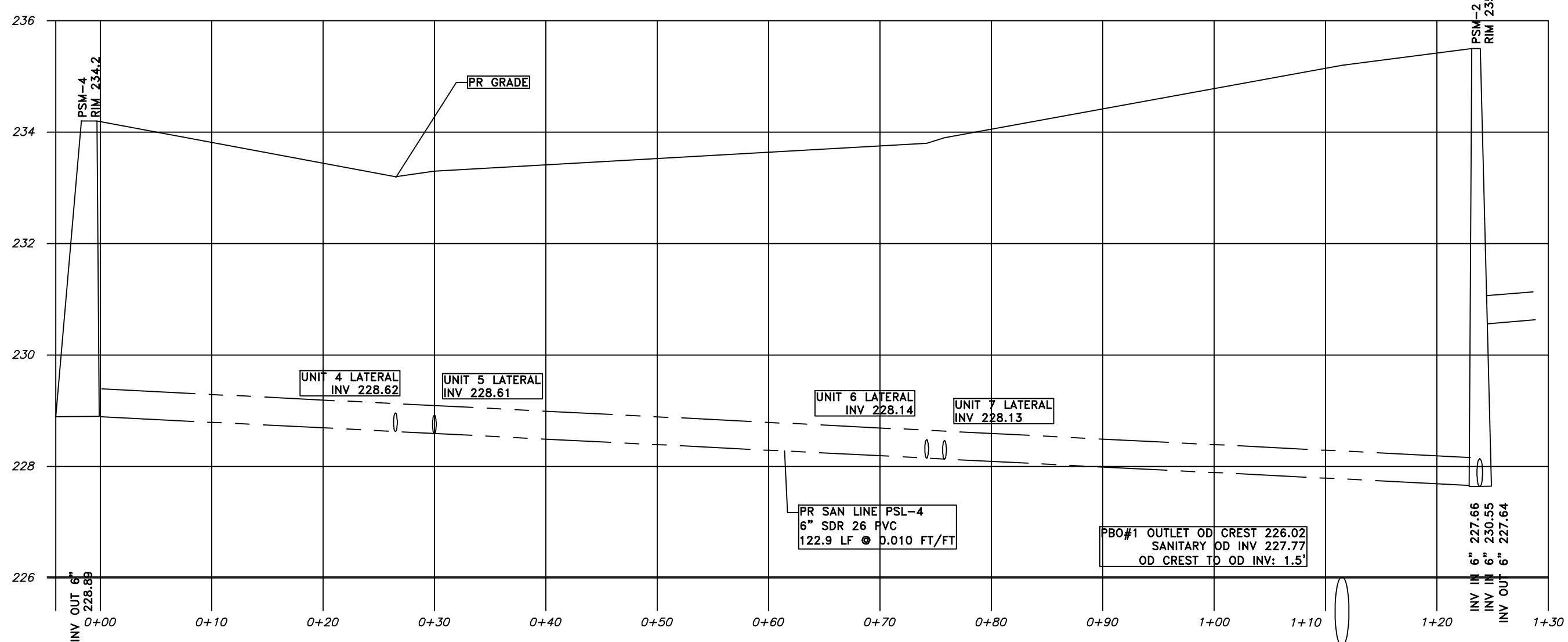
SANITARY SEWER PROFILE - PSM-2 TO PSM-5
HOR SCALE: 1"=10' VERT SCALE 1"=2'



SANITARY SEWER PROFILE - PSM-1 TO EXISTING MANHOLE EX-MH-222
HOR SCALE: 1"=10' VERT SCALE 1"=2'



SANITARY SEWER PROFILE - PSM-3 TO PSM-2
HOR SCALE: 1"=10' VERT SCALE 1"=2'



SANITARY SEWER PROFILE - PSM-4 TO PSM-2
HOR SCALE: 1"=10' VERT SCALE 1"=2'

LATERAL NOTES

1. 4" 26 SDR PVC 2. 2% SLOPE MIN.		
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PLAN PREPARED FOR:

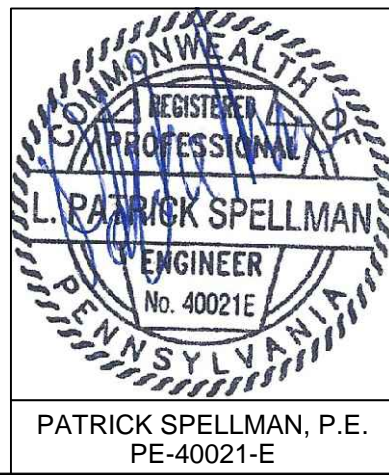
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WEST CONSHOHOCKEN BOROUGH MONTGOMERY COUNTY PENNSYLVANIA

**PROPOSED SANITARY
SEWER PROFILES**

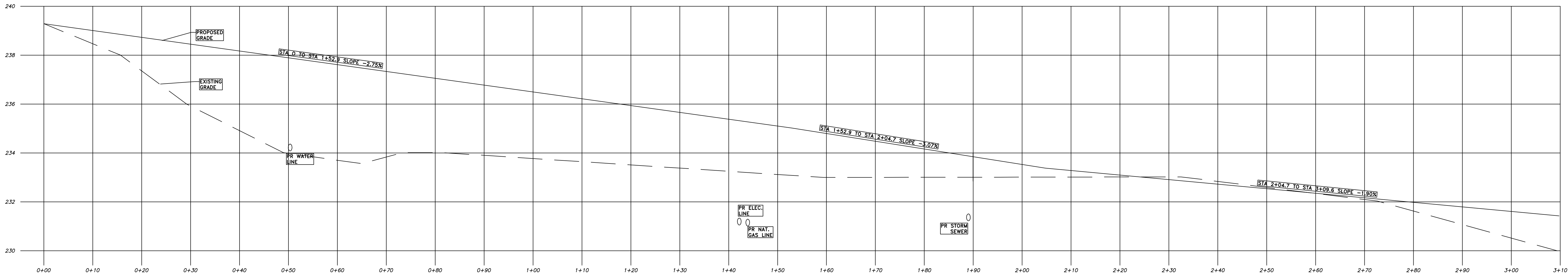
**SHEET
10 of 15**

DATE: 8 SEPTEMBER 2015

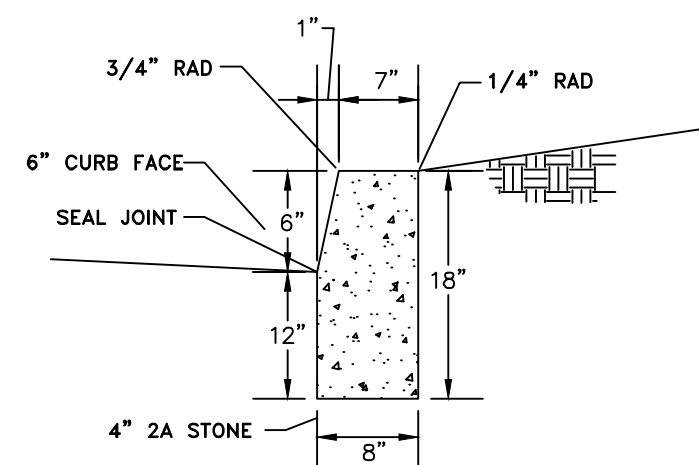
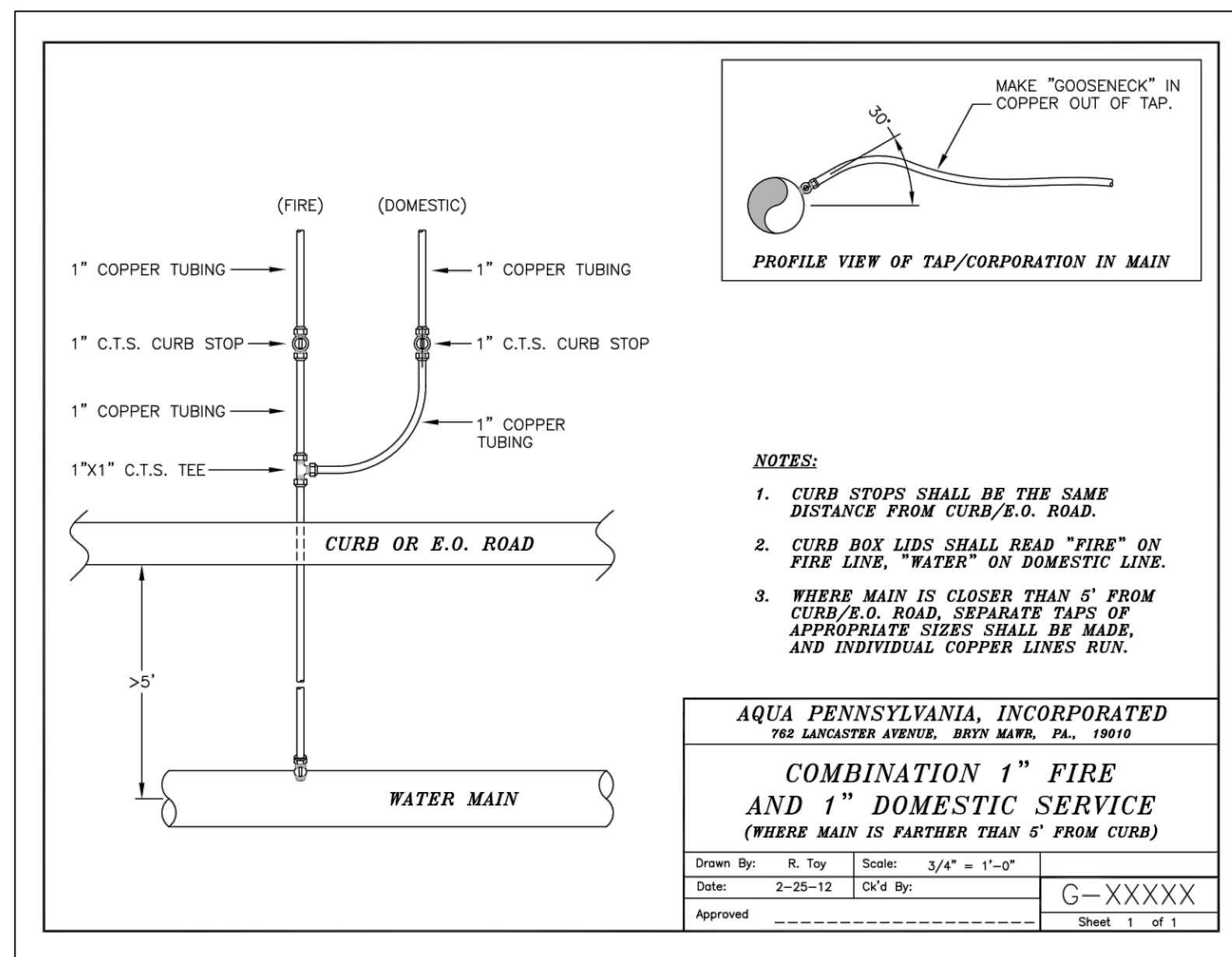
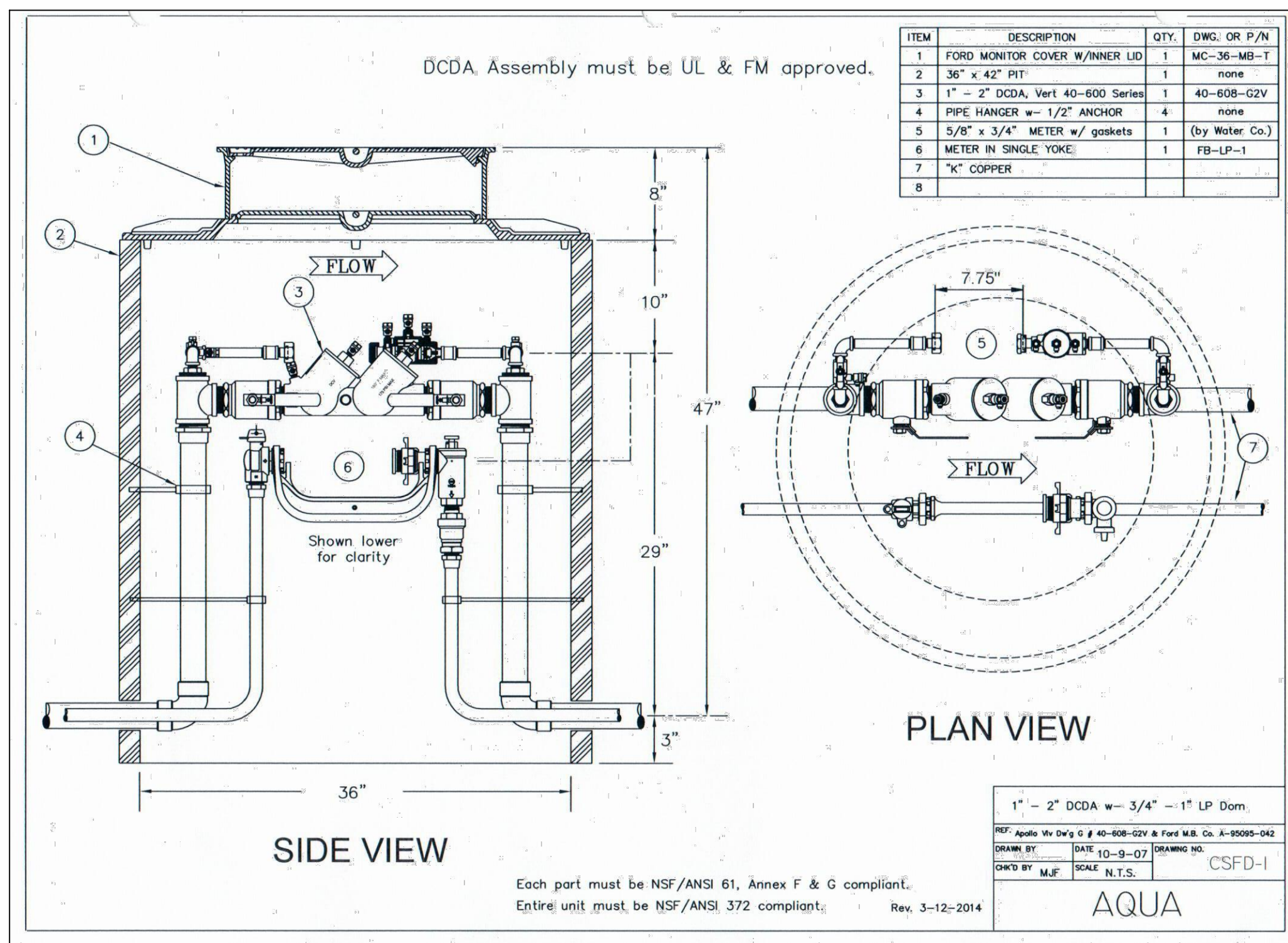
SCALE: AS SHOWN



PATRICK SPELLMAN, P.E.
PE-40021-E

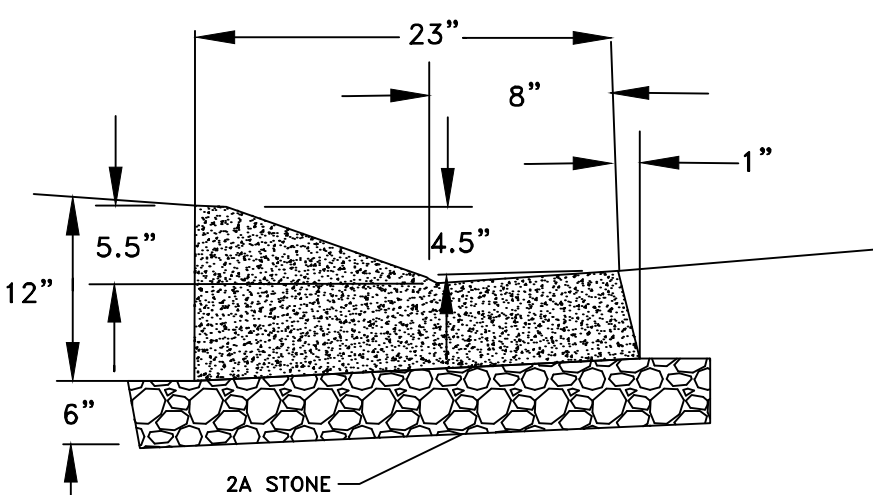


PROPOSED DRIVEWAY
HOR SCALE: 1"=10' VERT SCALE 1"=2'



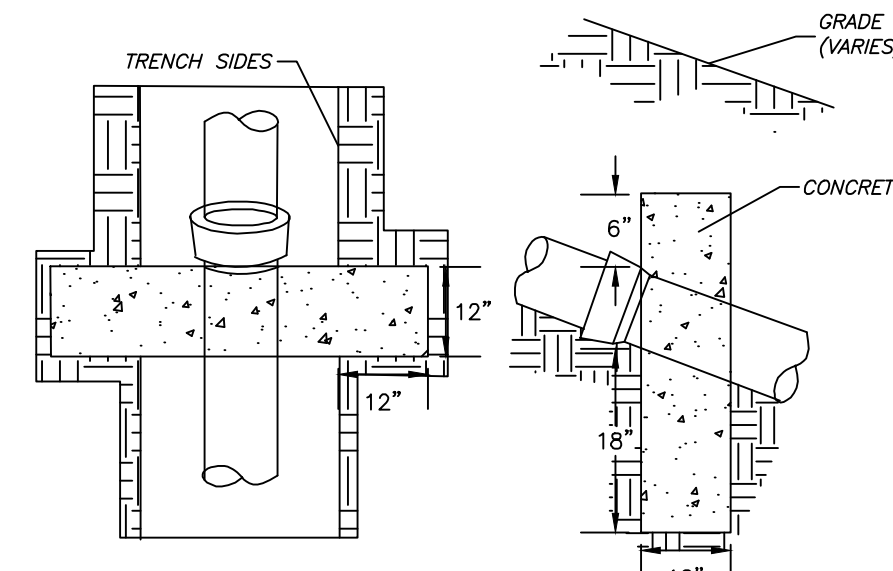
- CURB TO BE PLACED IN 10' SECTIONS WITH 1" EXPANSION JOINT.
- SEE CONCRETE NOTES FOR ADDITIONAL REQUIREMENTS.

TYPICAL CONCRETE CURB



- CURB TO BE PLACED IN 10' SECTIONS WITH 1" EXPANSION JOINT.
- SEE CONCRETE NOTES FOR ADDITIONAL REQUIREMENTS.

MOUNTABLE CURB/ DRIVEWAY APRON



SEE CONCRETE NOTES FOR ADDITIONAL REQUIREMENTS

MAX ANCHOR SPACING

SLOPE (%)	SPACING (LF)
<18	N/A
18 TO 35	36
>35 TO 50	24
>50	16

PIPE ANCHOR DETAIL

CONCRETE NOTES

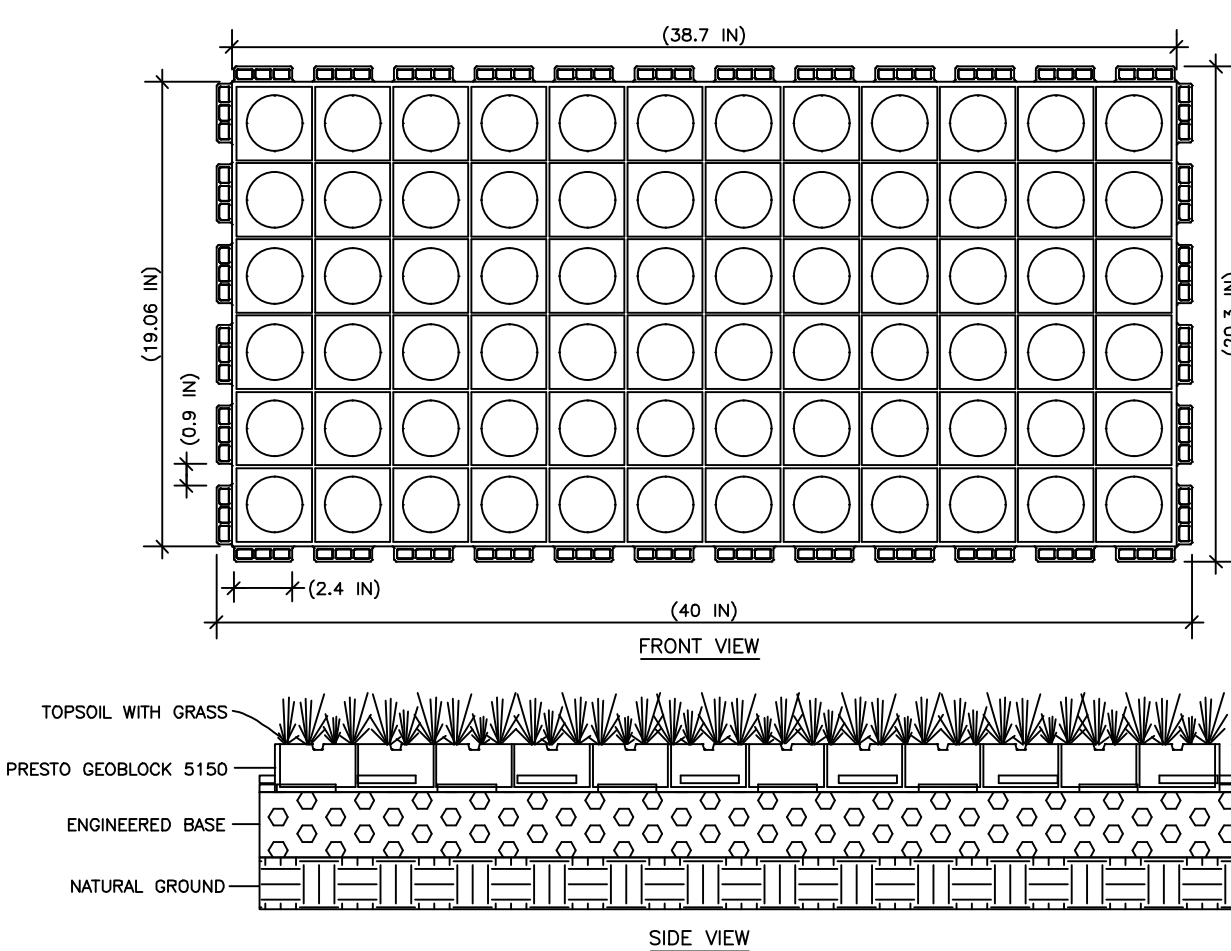
FOR CURBS, WALKS AND PIPE ANCHORS. SEE BUILDING PLANS FOR STRUCTURAL CONCRETE SPECIFICATIONS.

- CLASS "A" CONCRETE
- MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4800 PSI
- CONTAIN 5-8% AIR-ENTRAINMENT BY VOLUME
- MAXIMUM W/C RATIO OF 0.45
- CURING COMPOUND PLACED AFTER FINISHING

CUT/FILL SUMMARY

	CUT	FILL	NET
SUBSOIL	1658	2020	-362
20% SWELL/ 15% SHRINK	1990	2323	
TOPSOIL	876	609	267

PER BOROUGH PERMIT REQUIREMENT, CONTRACTOR RESPONSIBLE FOR INDEPENDENT VERIFICATION FOR CONSTRUCTION PURPOSES.

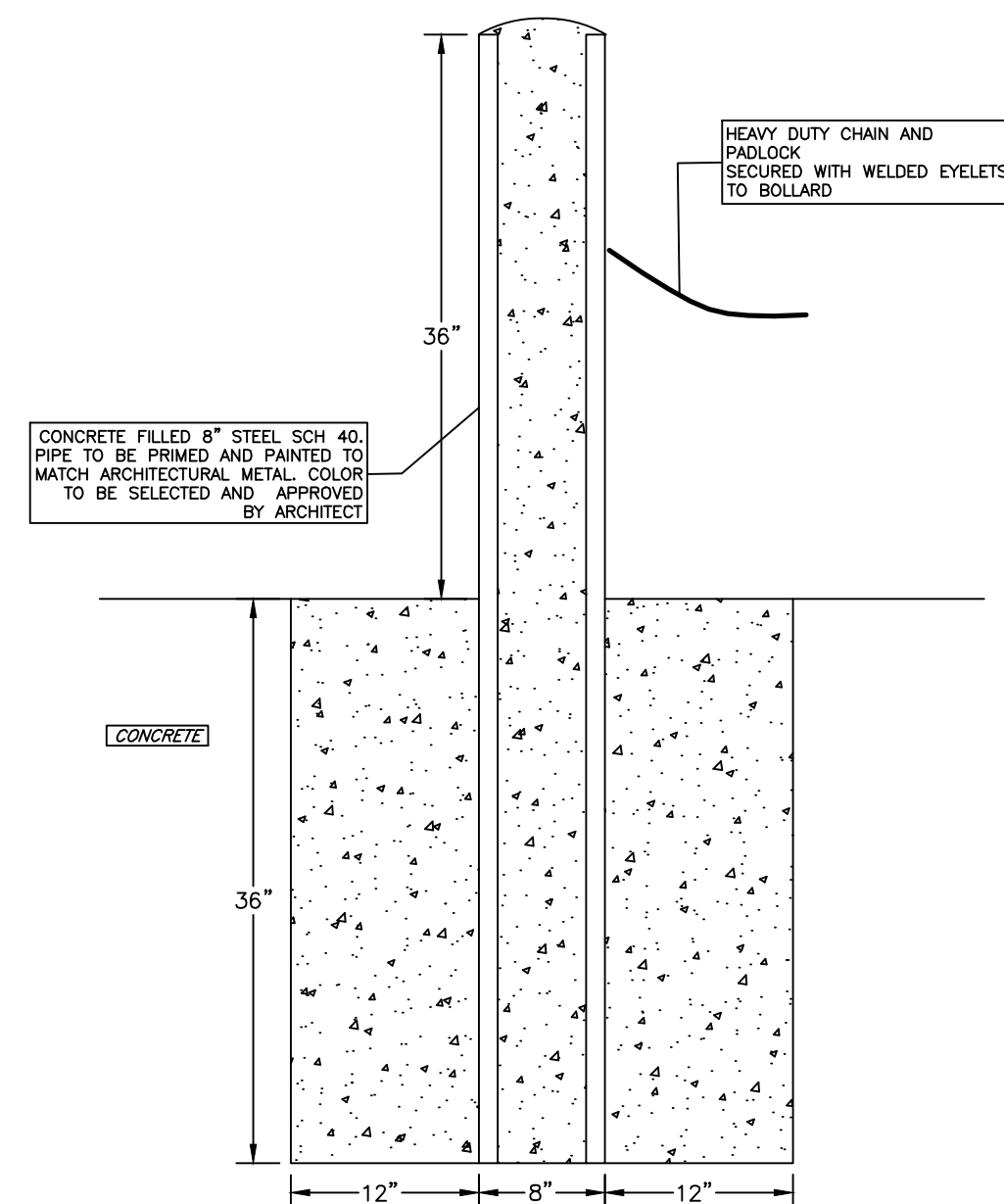


RECOMMENDED TOPSOIL:
SUITABLE TOPSOIL SHOULD BE A GOOD QUALITY, DRAINABLE SOIL AND NOT BE COMPACTED WITHIN THE GEOBLOCK UNIT. THE TOPSOIL SHOULD BE PULVERIZED PRIOR TO FILLING THE GEOBLOCK CELLS AND CONTAIN SUFFICIENT ORGANIC CONTENT TO SUPPORT VEGETATIVE GROWTH. TOPSOIL SUCH AS SANDY LOAM IS RECOMMENDED. CLAY AND CLAY LOAM MATERIAL ARE NOT RECOMMENDED.

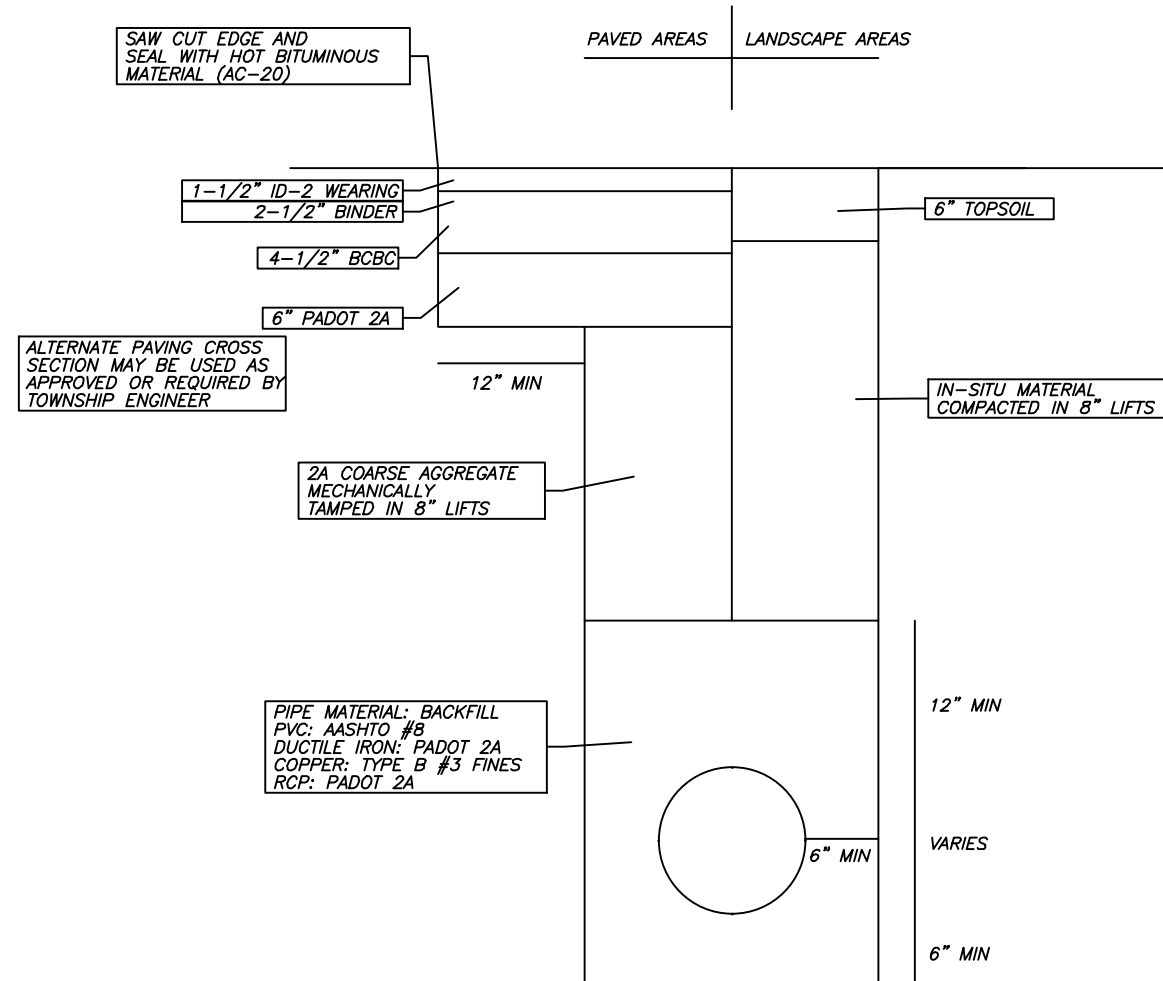
RECOMMENDED ENGINEERED BASE:
A RECOMMENDED ENGINEERED BASE IS A HOMOGENEOUS MIXTURE CONSISTING OF 1) A CLEAR-STONE/CRUSHED ROCK HAVING AN AASHTO #5 OR SIMILAR DESIGNATION BLENDED WITH 2) PULVERIZED TOPSOIL AND 3) A VOID COMPONENT GENERALLY CONTAINING AIR AND/OR WATER. THIS HOMOGENEOUS MIXTURE WILL PROMOTE VEGETATIVE GROWTH AND PROVIDE REQUIRED STRUCTURAL SUPPORT. THE AGGREGATE PORTION SHALL HAVE A PARTICLE RANGE FROM 0.375 TO 1.0 IN WITH A 55% OF 0.5 IN. THE PERCENTAGE VOID-SPACE OF THE AGGREGATE PORTION WHEN COMPACTED SHALL BE AT LEAST 30%. THE PULVERIZED TOPSOIL PORTION SHALL EQUAL 25% +/- OF THE TOTAL VOLUME AND BE ADDED AND BLENDED TO PRODUCE A HOMOGENEOUS MIXTURE PRIOR TO PLACEMENT. ONCE PLACED, THE MIXTURE SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.

NOTE: GEOTECHNICAL ENGINEER MUST CERTIFY THE INSTALLED GEOBLOCK IS SUFFICIENT TO CARRY THE LOADS OF A FIRE TRUCK.

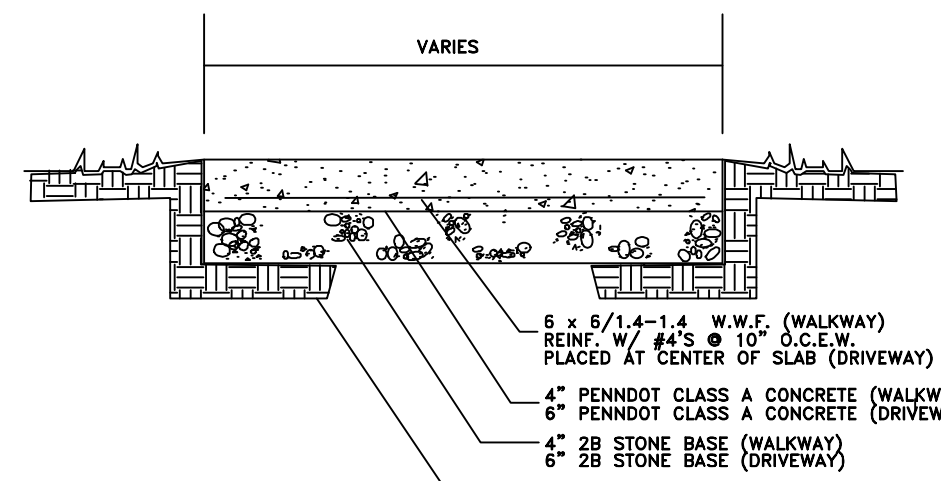
EMERGENCY ACCESS PAVER DETAIL



EMERGENCY ACCESS CONTROL



ROADWAY TRENCH RESTORATION AND PIPE BEDDING DETAIL

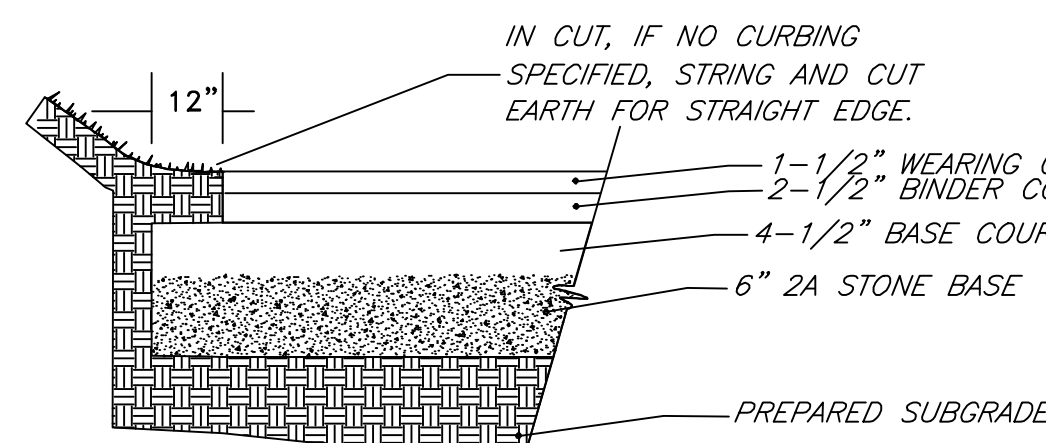


NOTE: WALKWAY SHALL BE CONSTRUCTED IN 20 FOOT SECTIONS WHICH SHALL BE SEPARATED BY 1/4" THICK FELT IMPREGNATED WITH BITUMINOUS MATERIAL. FELT TO BE INSTALLED BETWEEN SECTIONS AND AT ALL STRUCTURES. WALK TO BE SCORED EVERY 4 FEET - CUT REINFORCEMENT BETWEEN SECTIONS.

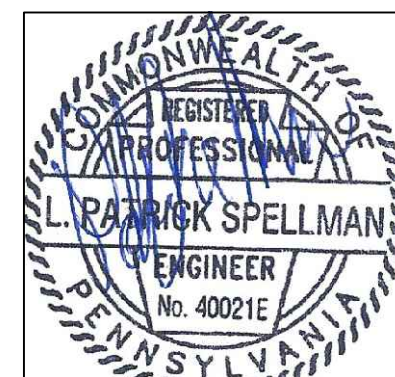
DRIVEWAY CONSTRUCTION MUST CONFORM TO WEST CONSHOHOCKEN BOROUGH STANDARDS.

SEE CONCRETE NOTES FOR ADDITIONAL REQUIREMENTS

CONCRETE WALKWAYS



ASPHALT PAVEMENT



PATRICK SPELLMAN, P.E.
PE-40021-E

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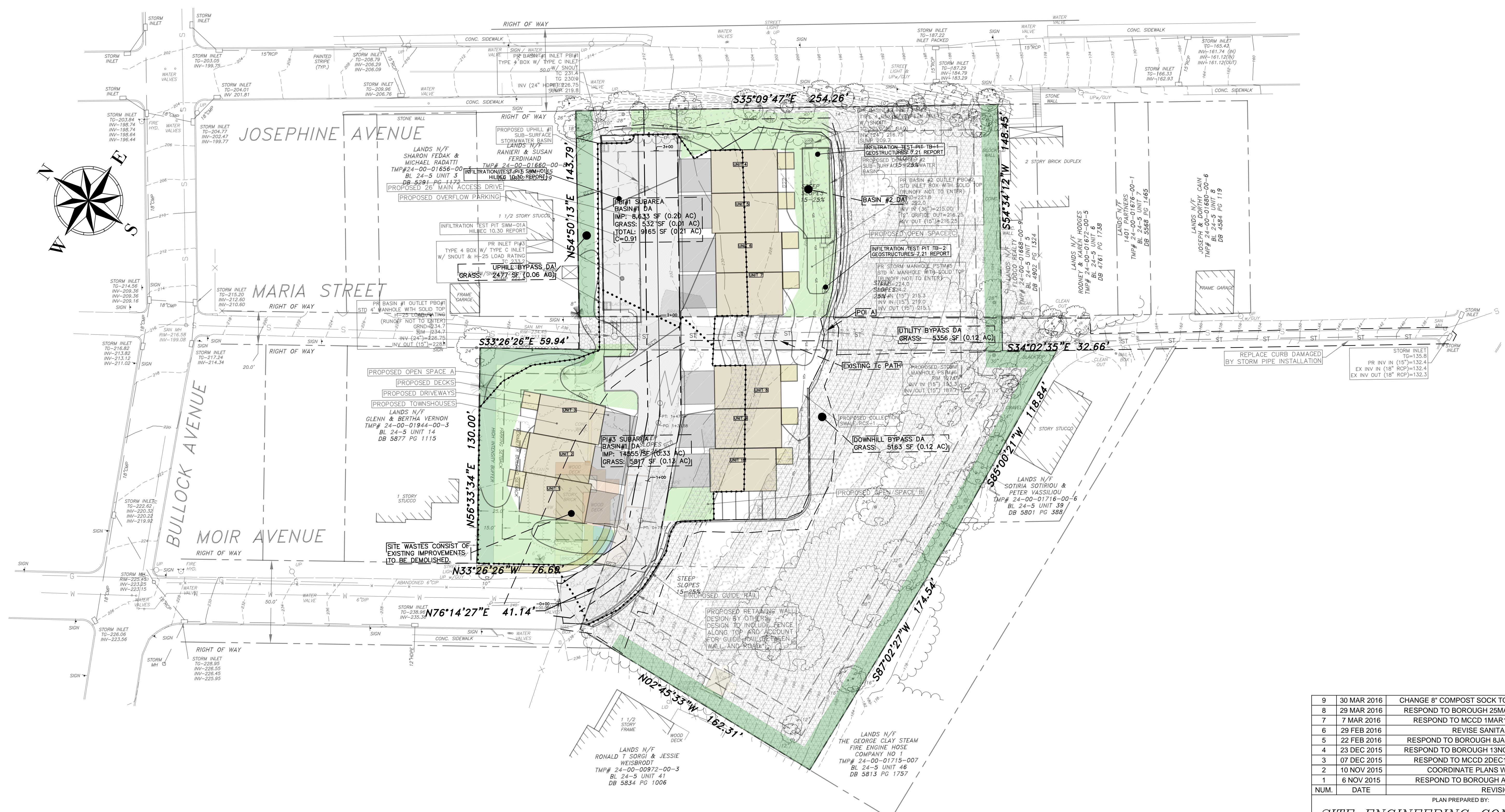
PLAN PREPARED BY:
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WEST CONSHOHOCKEN BOROUGH MONTGOMERY COUNTY PENNSYLVANIA

DRIVEWAY AND CONSTRUCTION DETAILS

SHEET
11 of 15

SCALE: AS SHOWN



- PLAN LEGEND**
- HALF TONE EXISTING FEATURES
 - FULL TONE PROPOSED FEATURES
 - SUPPLEMENTAL CONTOUR (2' INTERVAL)
 - INDEX CONTOUR (10' INTERVAL)
 - ST EXISTING STORM SEWER PIPING
 - EXISTING SANITARY SEWER PIPING
 - GAS EXISTING GAS MAIN
 - EXISTING WATER MAIN / SERVICE
 - EXISTING UNDERGROUND TELEPHONE
 - EXISTING EDGE OF WOODS
 - EXISTING EDGE OF PAVEMENT
 - EXISTING FENCE LINE
 - PROPERTY LINE
 - BUILDING SETBACK LINE
- PROTECTED AREAS**
- OPEN SPACE
 - 15 TO 25% SLOPES
 - GREATER THAN 25% SLOPES
- IMPERVIOUS COVERAGE**
- TOWNHOUSE AND DECKS
 - MAIN ACCESS DRIVE AND DRIVEWAYS

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WEST CONSHOHOCKEN BOROUGH MONTGOMERY COUNTY PENNSYLVANIA		
PCSM PLAN: DRAINAGE		
AREA MAPS &		
PROTECTED AREAS		
SHEET		
13 of 15		
SCALE: AS SHOWN		

PATRICK SPELLMAN, P.E.
PE-40021-E