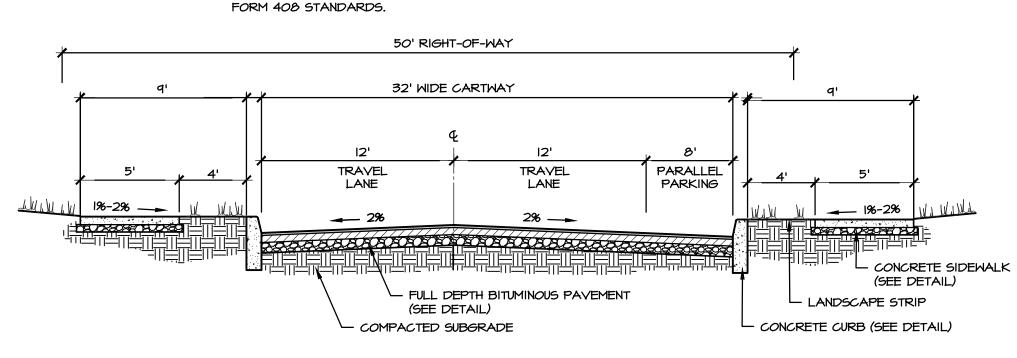
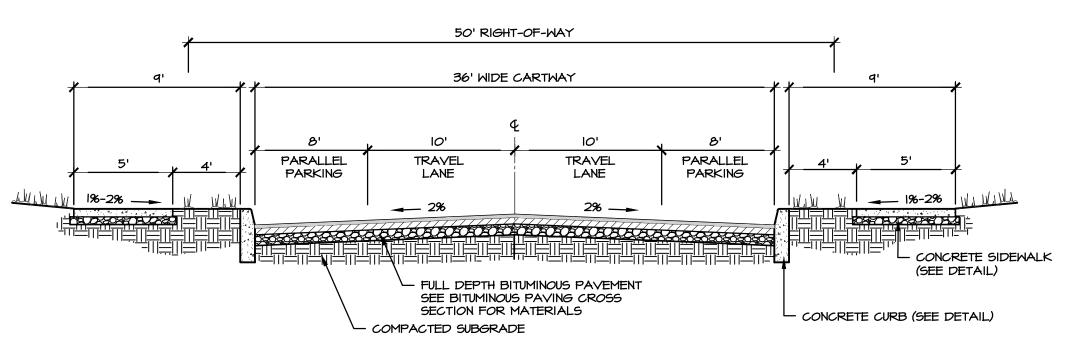


NOTES: I. ALL STREETS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE PENNDOT MANUAL



### PARALLEL PARKING - ONE SIDE



PARALLEL PARKING - BOTH SIDES



PROVIDE MATERIALS AND CONSTRUCTION MEETING THE REQUIREMENTS OF PADOT PUBLICATION 408, SECTION 630 FOR

INSTALL EXPANSION MATERIAL AT INTERVALS NOT TO EXCEED 100

2. SPACE CONTRACTION JOINTS IN UNIFORM LENGTHS OR SECTIONS.

FEET. EXPANSION MATERIAL SHALL BE  $\frac{1}{2}$ " THICK PREMOULDED,

NON-EXTRUDING, RESILIENT BITUMINOUS JOINT FIBER. INSTALL

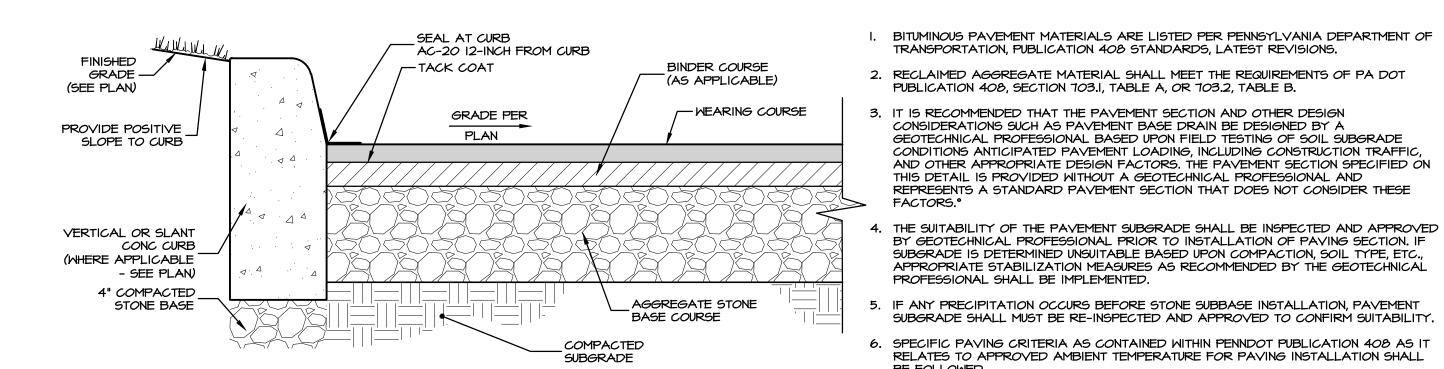
EXPANSION MATERIAL ADJACENT TO ALL INLETS AND OTHER

5. SEAL PAYEMENT JOINT AT CURB LINE WITH EMULSIFIED ASPHALT.

NOTES:

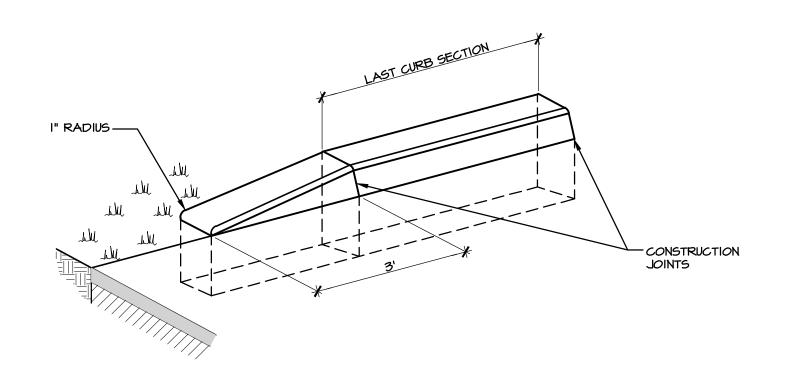
PLAIN CEMENT CONC CURB.

4. PROVIDE REVEAL AS INDICATED ON PLAN.

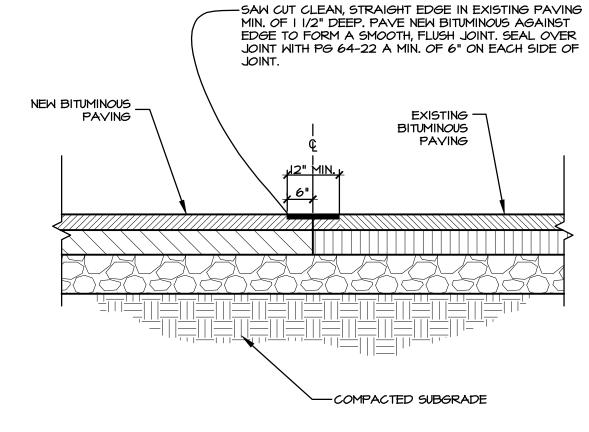


BITUM	11NOUS PAVING SCHEDULE				ACCRECATE BASE C	Olines	
SYM	WEARING COURSE	1	BINDER COURSE	1	AGGREGATE BASE C	1	LOCATION
SIM	TYPE	COMPACTED THICKNESS	TYPE	COMPACTED THICKNESS	TYPE	COMPACTED THICKNESS	LOCATION
Α	SUPERPAVE ASPHALT DESIGN, HMA WEARING COURSE, PG 64-22, O.3 TO <3.0 MILLION ESAL'S, 9.5 MM, SRL-H	1.5"	SUPERPAVE ASPHALT DESIGN, HMA BINDER COURSE, PG 64-22, O.3 TO <3.0 MILLION ESAL'S, 25 MM MIX, 50 GYRATIONS	4"	2A MODIFIED	8"	LOCAL DEDICATED STREET
В	SUPERPAVE ASPHALT DESIGN, HMA WEARING COURSE, PG 64-22, O.3 TO <3.0 MILLION ESAL'S, 9.5 MM, SRL-L	1.5"	SUPERPAVE ASPHALT DESIGN, HMA BINDER COURSE, PG 64-22, O.3 TO <3.0 MILLION ESAL'S, 25 MM MIX, 50 GYRATIONS	3"	2A MODIFIED	8"	ACCESS DRIVES & PARKING AREAS

BITUMINOUS PAVEMENT SECTION / SCHEDULE



TYPICAL CURB END DETAIL

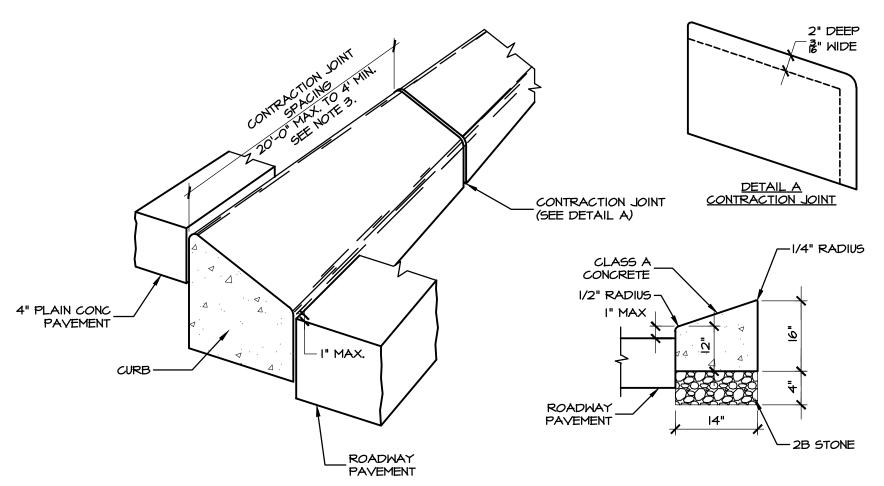


7. ALL AREAS ADJACENT TO CURB, INLETS, MANHOLE COVERS, ETC. ARE TO BE SEALED

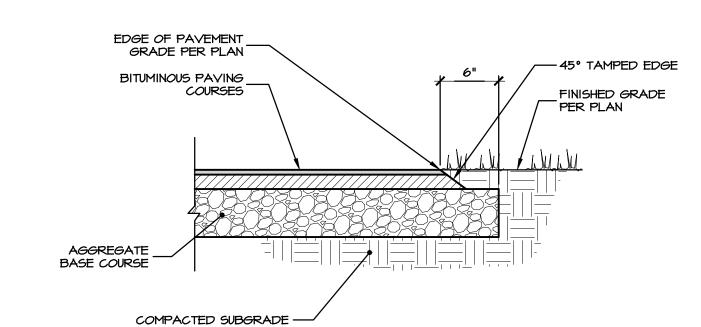
12-INCHES WIDE WITH AC-20.

SANCUT/BITUMINOUS PAVING JOINT

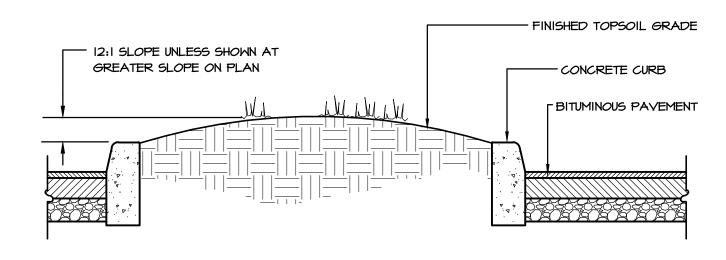
CONTRACTION JOINT (SEE DETAIL 'A' ABOVE) PADOT TYPE CONCRETE VERTICAL CURB



- PROVIDE MATERIALS AND CONSTRUCTION MEETING THE REQUIREMENTS OF PUBLICATION 408, SECTION 633
- 2. SPACE CONTRACTION JOINTS IN UNIFORM LENGTHS OR SECTIONS AND SEAL AS SPECIFIED IN SECTION 501.3(n), PUB 408
- 3. INSTALL EXPANSION MATERIAL AT INTERVALS NOT TO EXCEED 100 FEET. EXPANSION MATERIAL SHALL BE 1 THICK PREMOULDED, NON-EXTRUDING, RESILIENT BITUMINOUS JOINT FIBER. INSTALL EXPANSION MATERIAL ADJACENT TO ALL INLETS AND OTHER STRUCTURES.
- 4. PROVIDE ELONGATED ISLANDS NOT LESS THAN 4'-0" WIDE AND 20'-0" LONG, EXCEPT IN SPECIAL CASES WHERE SPACE IS SEVERELY LIMITED.



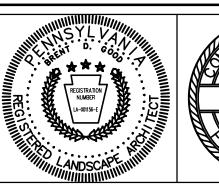




E	PARKING ISLAND MOUNDING	,
	NO SCALE	

**REVISIONS PER:** DATE: BY:





PRELIMINARY PLAN
SUBJECT:
SITE DETAILS
SITE DETAILS
FOR
WESTMOUNT
MOUNT JOY TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA
CLIENT:
VISTABLOCK, LLC
VIOTABLOOK, LLO

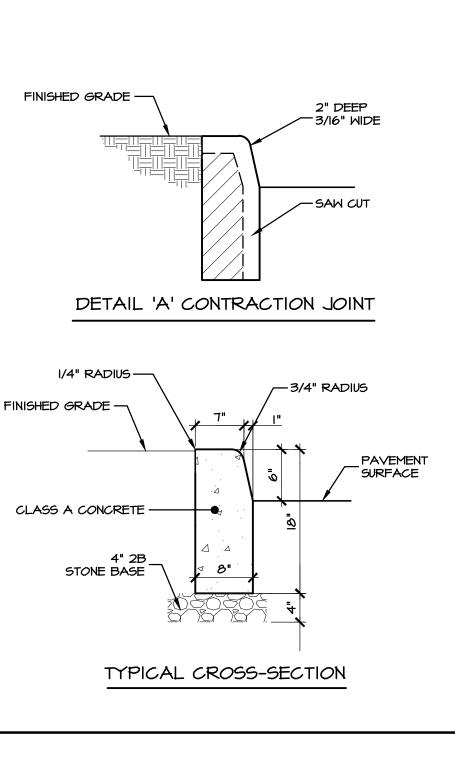
150 FARMINGTON LANE

LANCASTER, PA 17601

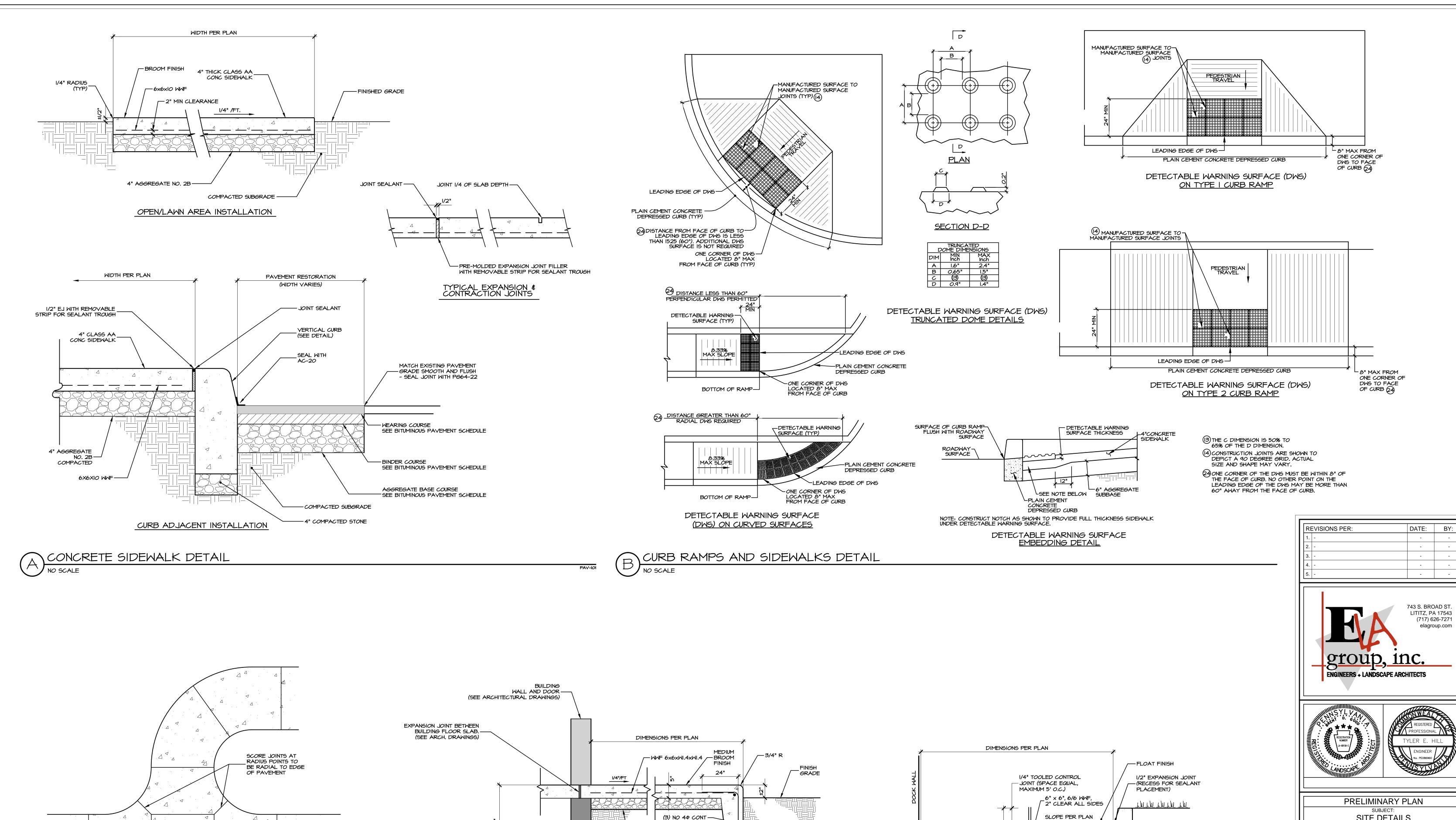
717-68	32-8775		
BDG	DATE:	ОСТОВ	ER 7, 202
BDG	PROJE	CT NO.	1212-00

57 of 86

MANAGER: DESIGNER: BLM | SCALE: DRAWN BY: 1" = XX'



SLANT CURB DETAIL



NO 4Φ @ 12" OC -

CLASS AA CONC -

6" CLASS AA

CONCRETE PAVING

DUMPSTER PAD PAVEMENT SECTION

CONC CURB

(WHERE APPLICABLE)

6" AASHTO #57

COMPACTED

DRAINAGE AGGREGATE

CONCRETE

BUILDING FOUNDATION.

STRUCTURAL DRAWINGS)

(SEE ARCH. &-

FROST WALL AT DOOR

MALK

PLAN VIEW

RADIAL SCORING JOINT

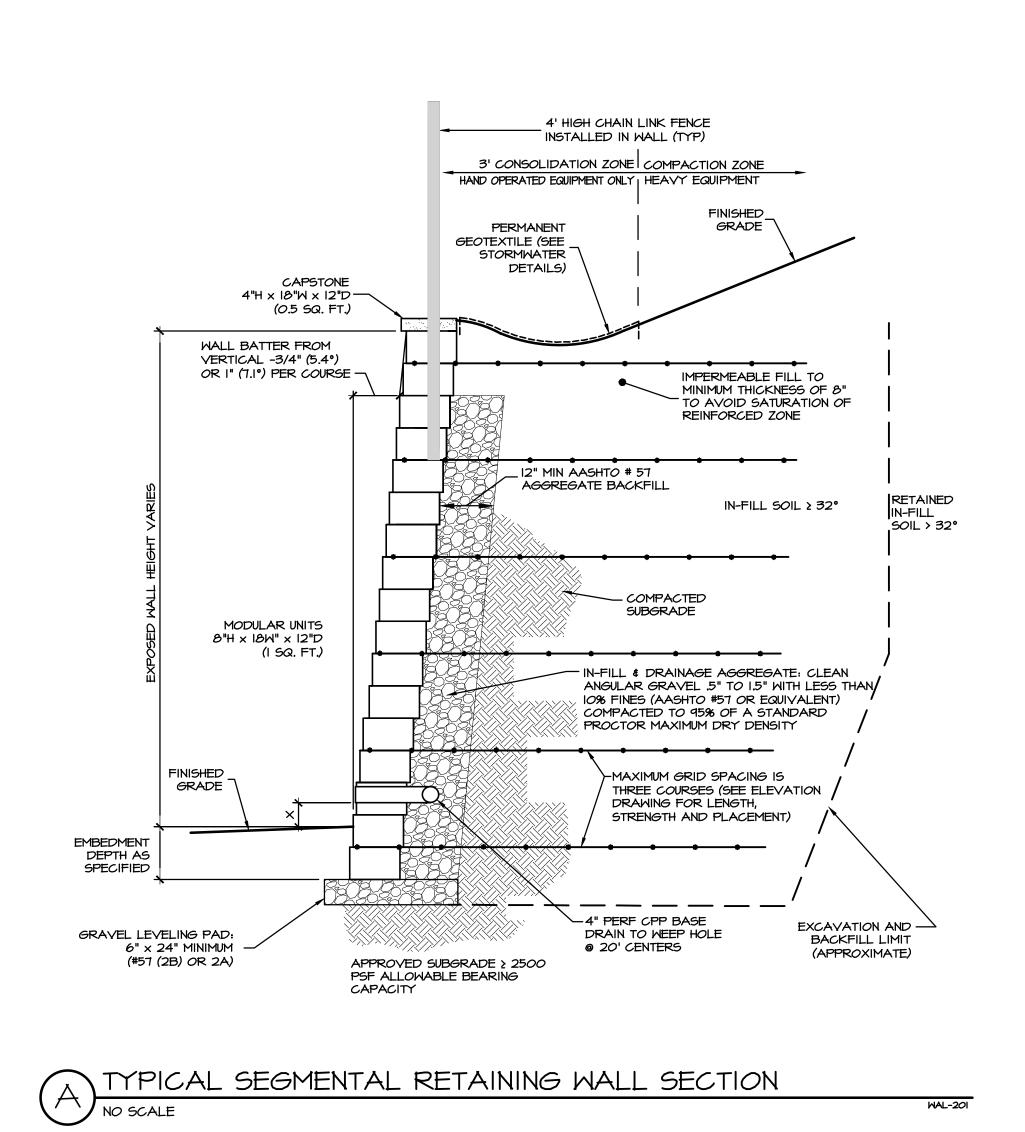
SUBJECT:
SITE DETAILS

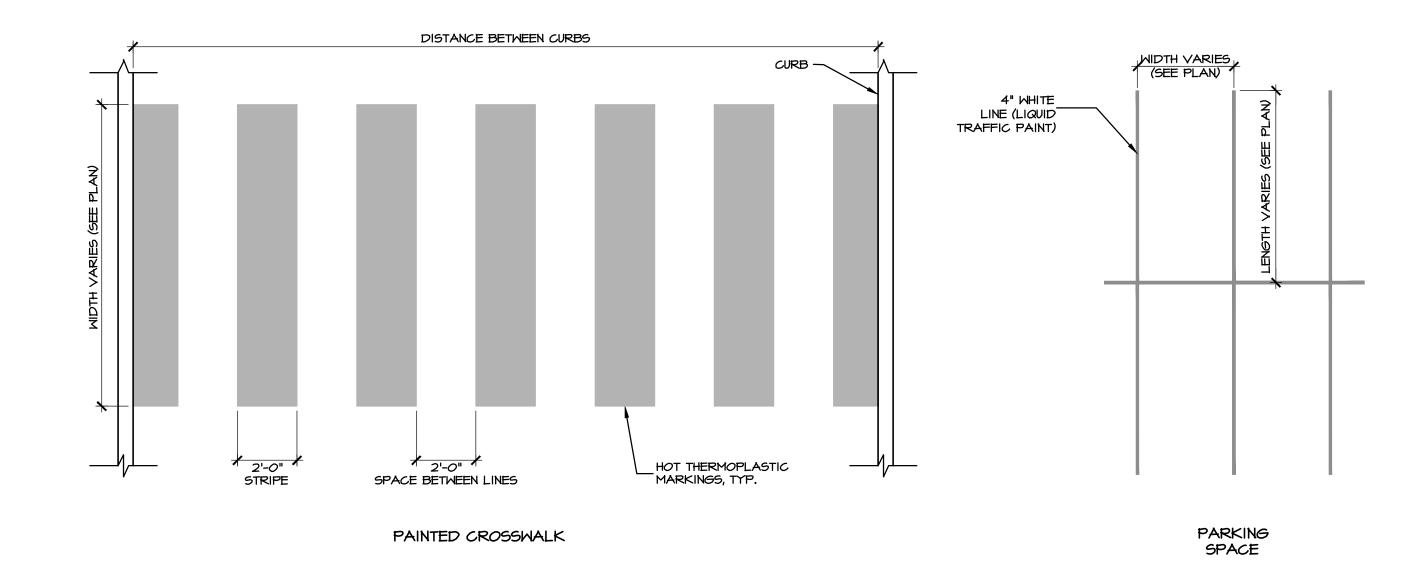
FOR
WESTMOUNT
MOUNT JOY TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA
CLIENT:
VISTABLOCK, LLC
150 FARMINGTON LANE
LANCASTER, PA 17601
717-682-8775

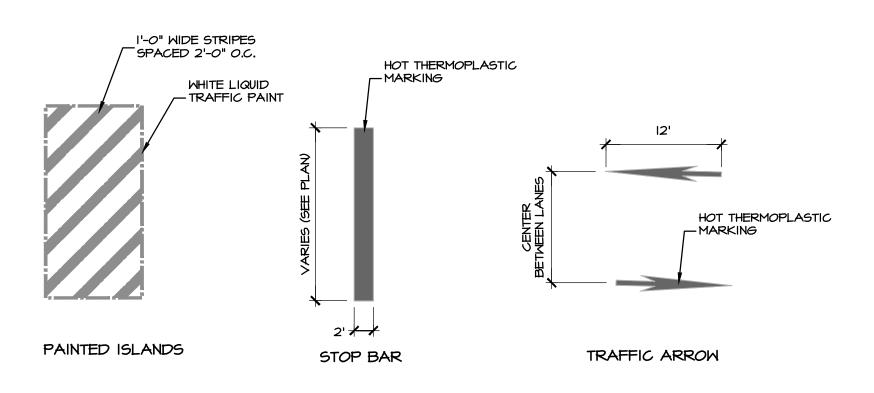
MANAGER: BDG DATE: OCTOBER 7, 2024

DESIGNER: BDG PROJECT NO. 1212-004

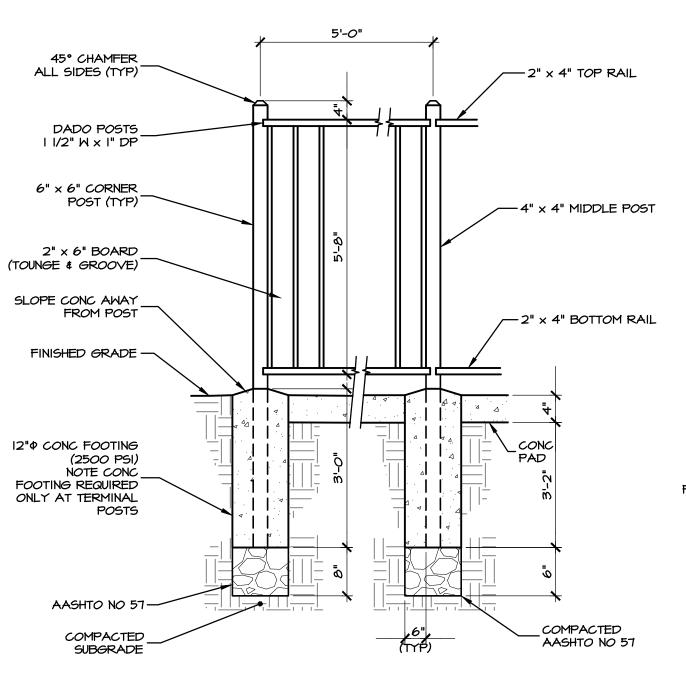
DRAWN BY: BLM SCALE: 1" = XX'

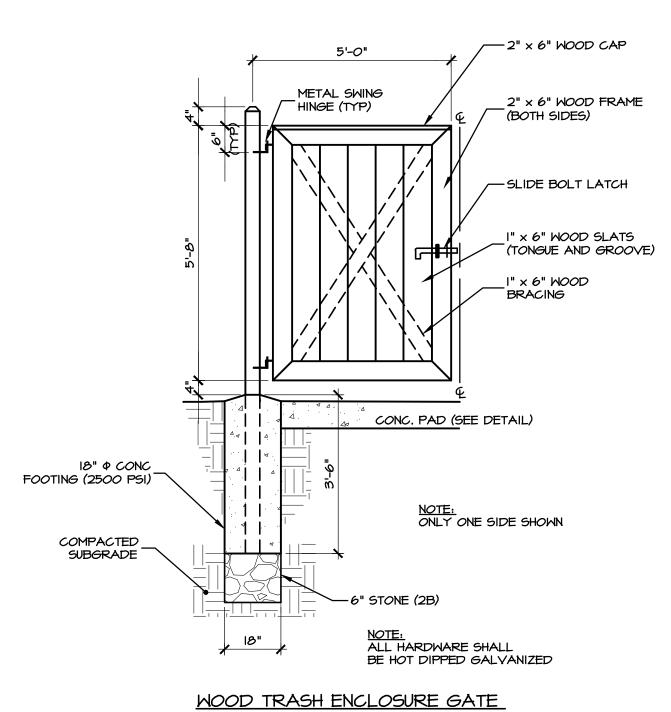


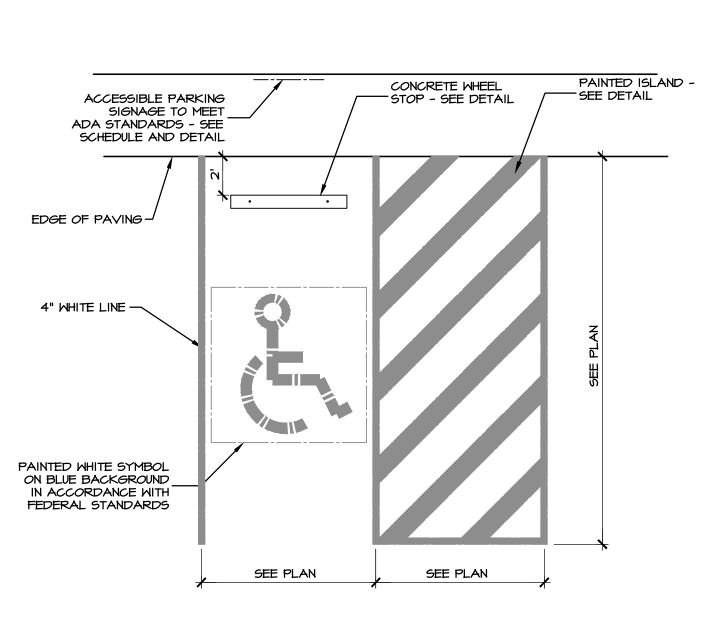




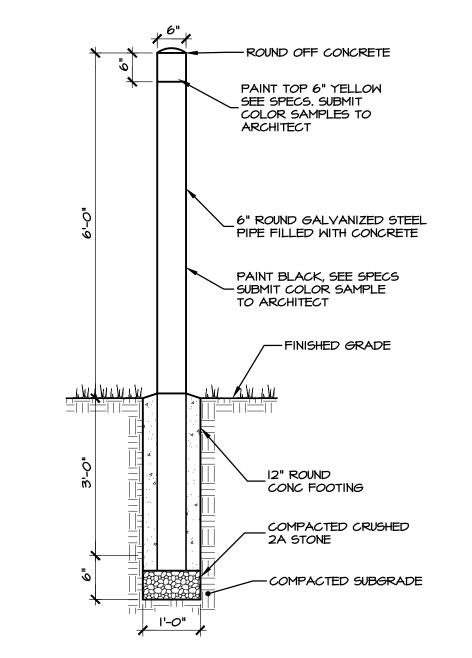








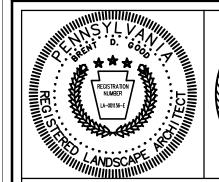
ADA PARKING SPACE	
NO SCALE	PAV-908
110 307 22	

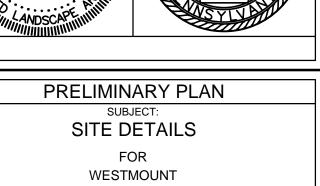


E	TYPICAL	METAL	BOLLARD	
( _ /	NO SCALE			FUR-001

DATE:	BY:
-	-
-	-
-	-
-	-
-	-







WESTWOONT
MOUNT JOY TOWNSHIP, LANCASTER COUNTY, PENNSYL
CLIENT:
VISTABLOCK, LLC
150 FARMINGTON LANE
LANCASTER, PA 17601
717-682-8775

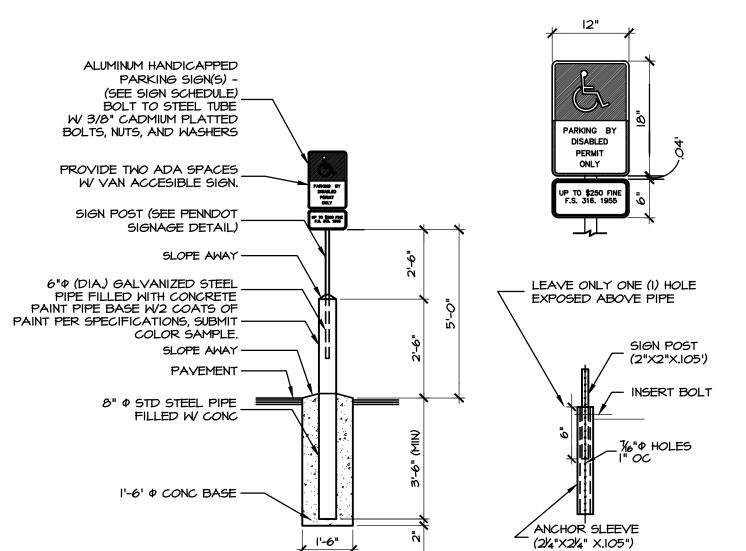
MANAGER:	BDG	DATE: OCTOB	SER 7, 2024
DESIGNER:	BDG	PROJECT NO.	1212-004
DRAWN BY:	BLM	SCALE:	1" = XX'

DRAWING NO. 59 of 86



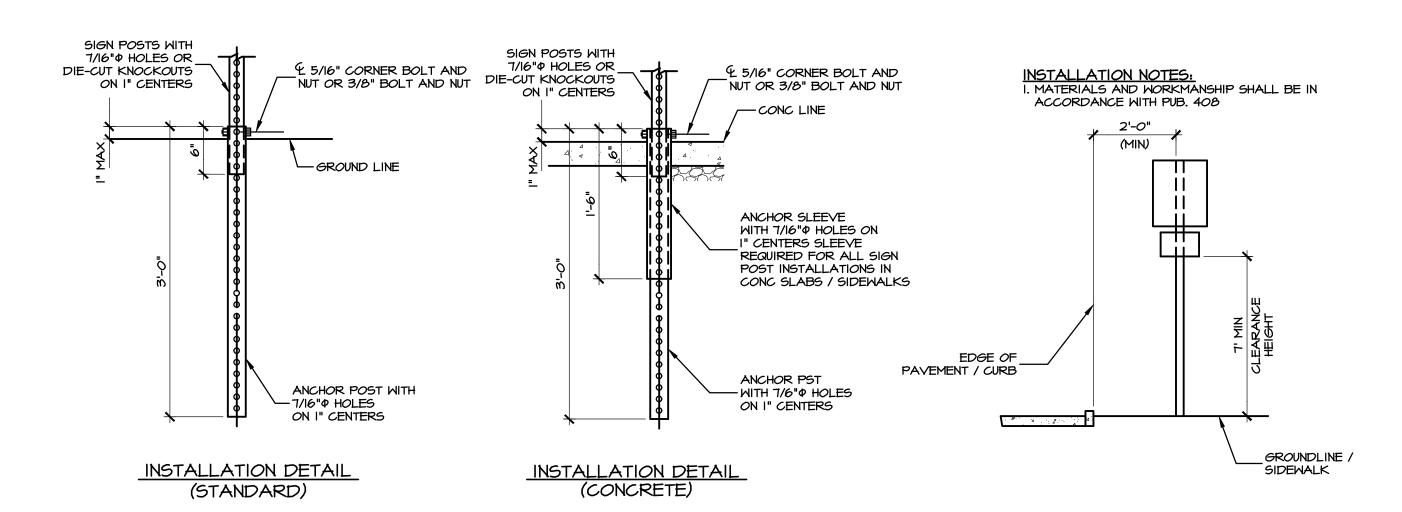
**MOOD TRASH ENCLOSURE** 

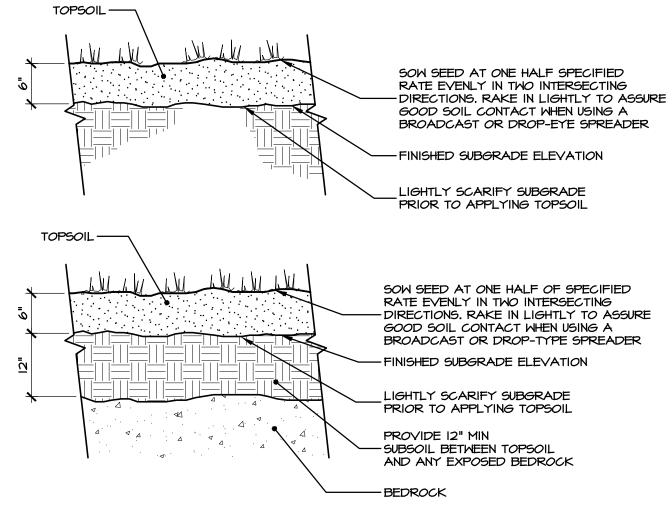
WOOD TRASH ENCLOSURE DETAIL
NO SCALE



I. ALL LETTERS ARE I" SERIES 'C' PER 2003 MUTCD.

- 2. TOP PORTION OF SIGN SHALL HAVE A REFLECTORIZED (ENGINEERING GRADE) BLUE BACKGROUND WITH WHITE REFLECTORIZED LEGEND AND
- 3. BOTTOM PORTION OF SIGN SHALL HAVE A REFLECTORIZED (ENGINEERING GRADE) WHITE BACKGROUND WITH BLACK OPAQUE LEGEND AND BORDER.
- 4. FINE NOTIFICATION SIGN SHALL HAVE A REFLECTORIZED (ENGINEERING GRADE) WHITE BACKGROUND WITH BLACK OPAQUE LEGEND AND
- CONTRACTOR SHALL VERIFY FINE AMOUNT AND ORDINANCE NUMBER.
- 5. ONE (I) SIGN REQUIRED FOR EACH ACCESSIBLE PARKING SPACE.
- INSTALLED HEIGHT OF SIGN SHALL BE IN ACCORDANCE WITH SECTION 24-23 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. (MUTCD)
- SIGN MAY BE MOUNTED ON BUILDING/WALL, AT PROPER HEIGHT, IF ALIGNED WITHIN 12" OF CENTER OF PARKING SPACE.





\_AWN PLANTING DETAIL

HANDICAPPED PARKING SIGN IN PARKING AREA

TRAFFIC SIGNAGE

AT TIME OF PLANTING, VERIFY THAT ROOT FLARE IS VISIBLE I. DO NOT PLACE MULCH DIRECTLY AGAINST AT TOP OF ROOT BALL TRUNK OF PLANT. ACCORDING TO ANSI Z60.1. IF ROOT FLARE IS NOT VISIBLE, REMOVE SOIL IN A LEVEL MANNER FROM THE ROOT BALL TO WHERE THE TOP-MOST ROOT EMERGES FROM THE TRUNK. AFTER SOIL REMOVAL TO EXPOSE THE ROOT FLARE, VERIFY THAT ROOT BALL STILL

MIN DIA = BALL + 1.5'

SHRUB PLANTING DETAIL

"SAUCER" FOR WATER MEETS SIZE REQUIREMENTS. HOLDING (3" DEEP REMOVE AFTER FIRST YEAR) FINISHED GRADE -FOLD BACK BURLAP FROM TOP 1/2 OF BALL ONLY. REMOVE ENTIRE WRAP IF PLASTIC. - SCARIFY SIDES & BOTTOM

2" COMPOSTED WOOD CHIP MULCH OR SHREDDED BARK

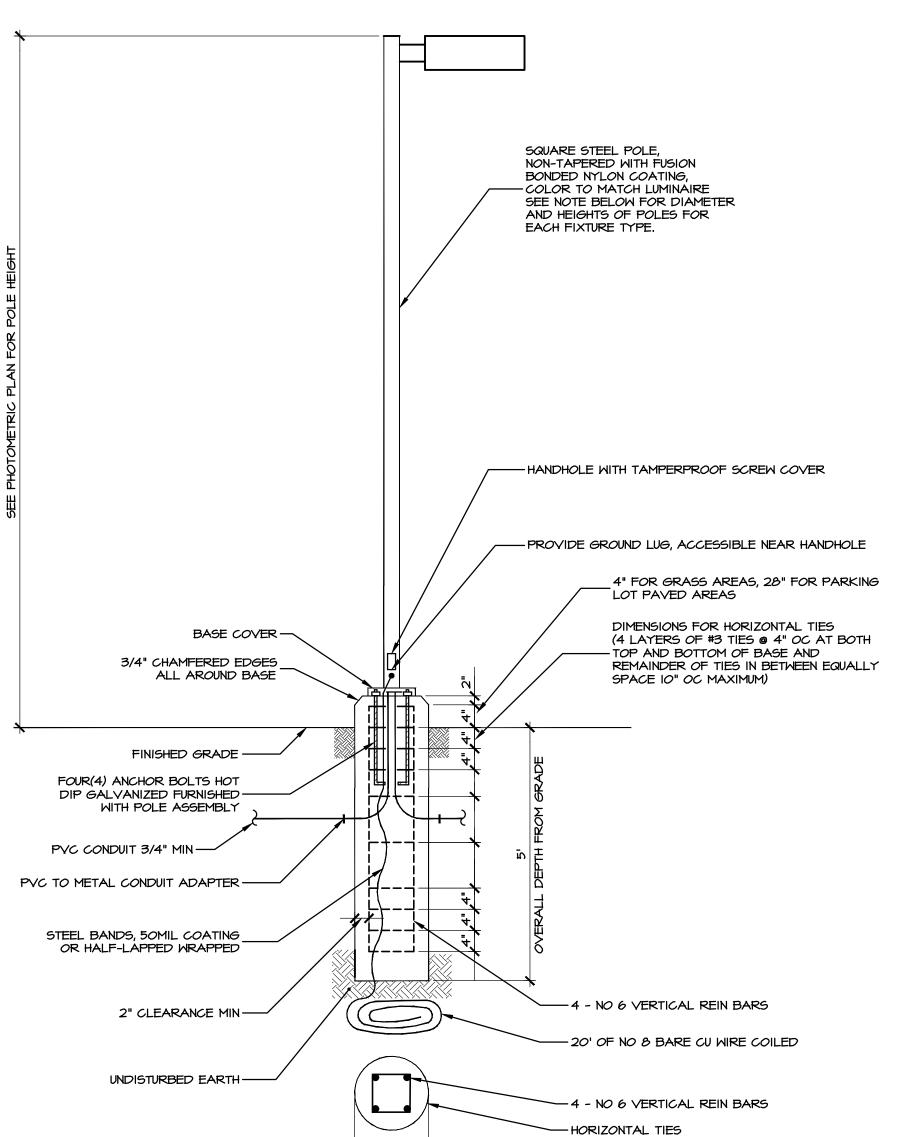
DO NOT PLACE DIRECTLY AGAINST TRUNK OF PLANT.

- SOIL AMENDMENTS AS

REQUIRED

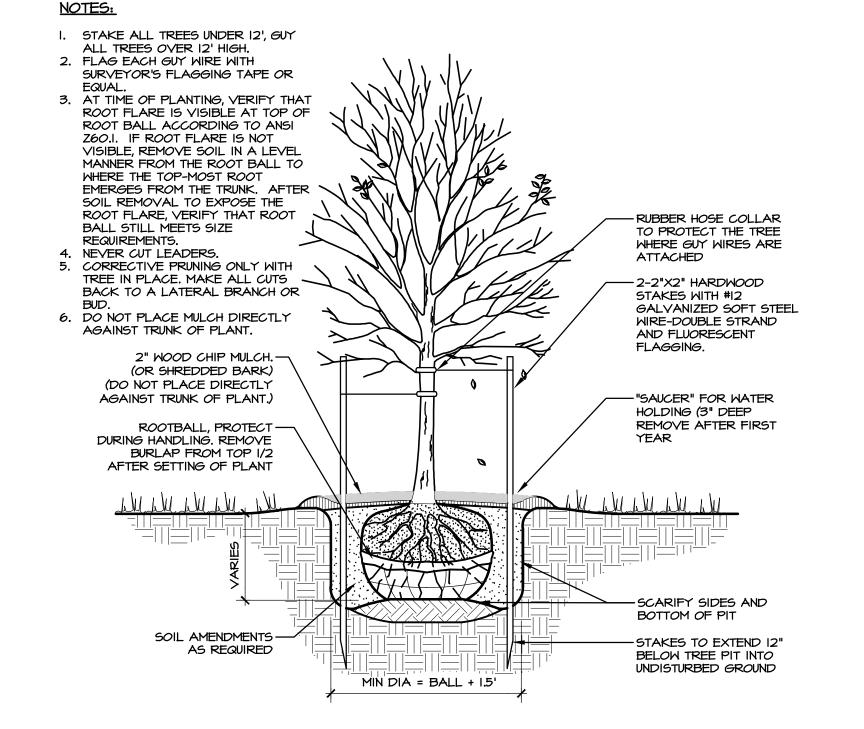
2" SHREDDED BARK MULCH (DO NOT PLACE DIRECTLY ----AGAINST TRUNK OF PLANT.) SEE PLANT LIST INCORPORATE 2" OF PEAT INTO 6" OF PLANTING MIXTURE AS SPECIFIED **CUT EARTH** EDGE (TYP)

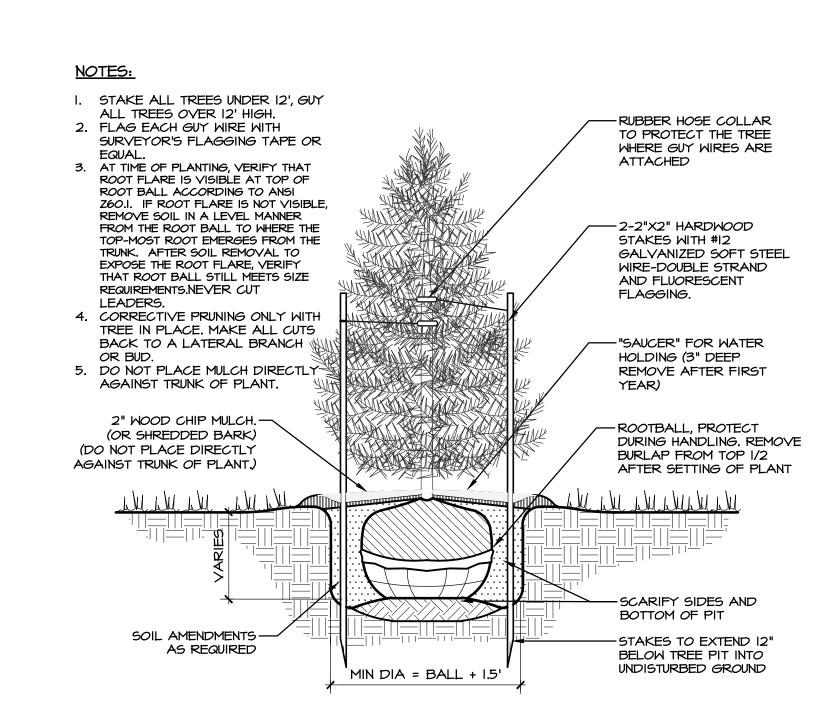
GROUNDCOVER/PERENNIAL PLANTING



CONCRETE BASE 3000 PSI

AFTER 28 DAYS







**ENGINEERS + LANDSCAPE ARCHITECTS** 

**REVISIONS PER:** 

DATE: BY:

743 S. BROAD ST. LITITZ, PA 17543

(717) 626-7271 elagroup.com

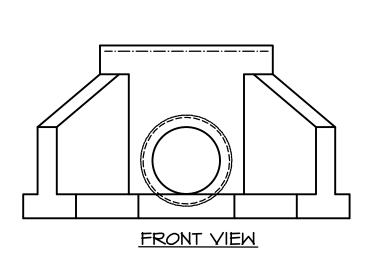
MANAGER: BDG DATE: OCTOBER 7, 2024 BDG PROJECT NO. 1212-004 DESIGNER DRAWN BY BLM | SCALE: 1" = XX'

> DRAWING NO. 60 of 86

TYPICAL SITE LIGHT

DECIDUOUS TREE PLANTING DETAIL

VEVERGREEN TREE PLANTING DETAIL



# NOTES:

I. ALL ENDWALLS SHALL BE PRECAST IN ACCORDANCE WITH PADOT PUBLICATION 408, SECTION 714, CLASS AA & IN ACCORDANCE WITH PADOT PUBLICATION 72, RC-31 STANDARD, AS AMENDED.

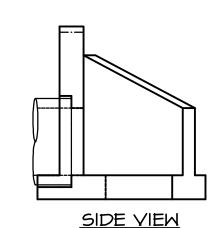
2. ALL CONCRETE SHALL CONFORM TO PADOT PUBLICATION 408, SECTION 704, CLASS AA.

3. REINFORCING STEEL SHALL CONFORM TO PADOT PUBLICATION 408, SECTION 709, AND PUBLICATION 72, RC-31 STANDARD.

4. EXPOSED EDGES SHALL BE CHAMFERED I".

5. PROVIDE PIPE OPENING SIZE IN PRECAST UNITS TO ACCOMMODATE PIPE SIZE, MATERIAL AND ALIGNMENT.

6. PROVIDE CONCRETE APRON UNLESS OTHERWISE SPECIFIED. 1. GROUT OPENINGS AROUND PIPE CONNECTION TO THE STRUCTURE TO PROVIDE A WATERTIGHT JOINT AND CONNECTION USING A NON-SHRINK GROUT ON THE INSIDE AND OUTSIDE OF THE



PROVIDE SUMPED INLETS

WHERE SPECIFIED. PROVIDE

- 2" SUMP TRANSITION OVER 3

FROM EDGE OF INLET (SEE

AND SPECIFIED SUMP)

GRADE ADJUSTMENT

INLET BOX (SIZE VARIES TO

2" DIAMETER WEEP HOLES (OR

APPROVED EQUAL), EACH SIDE AT

INVERT OF PAVEMENT SUBGRADE,

IF UNDERDRAINS ARE SPECIFIED,

UNDERDRAIN AS SHOWN ON PLANS.

ACCOMMOADATE PIPE)

-PAVED AREAS ONLY.

ACCOMMODATE

BICYCLE SAFE

- SUBGRADE LINE

- WEEPHOLE

STRUCTURAL STEEL

TYPE M INLET CONCRETE

- GRADE ADJUSTMENT RING

-INLET BOX (SIZE VARIES)

SEE NOTES

TOP UNIT

PROVIDE OPENING TO

RING AS NEEDED

-SUBGRADE LINE

ISOMETRIC VIEW

ISOMETRIC VIEW

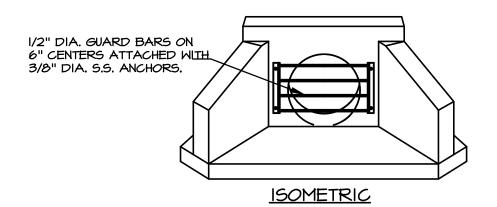
PA DOT TYPE 'M' INLET

PA DOT TYPE 'C' INLET

TYPE C INLET CONCRETE TOP UNIT

- (TO ACCOMMODATE CURB HEIGHT

### (TYPE 'DW' & 'D' ENDWALLS ONLY)



### NOTES:

I. MATERIAL TO BE: GALVANIZED STEEL W/RUST INHIBITOR OR STAINLESS STEEL 2. IF STEEL IS UTILIZED, THE UNIT SHALL BE FABRICATED, CLEANED AND THEN

3. DIMENSION APPROPRIATELY FOR HEADWALL UTILIZED.

HOT DIP GALVANIZED AFTER FABRICATION.

4. TRASH RACK BASED ON MONARCH PRODUCTS, INC. TRASH RACK (717-938-9785).



I CUBIC FOOT OF AASHTO

NO. 57 DRAINAGE STONE.

WRAP ENTIRE STONE AREA

IN NON-WOYEN DRAINAGE

GEOTEXTILE, TYPAR 3341-

BOTTOM OF STONE BASE

UNDER BITUMINOUS PAVING.

OR APPROVED EQUAL.

EXTEND STONE UP TO

PRECAST TYPE 'DW' ENDWALL

TYPE 'C' INLETS ARE TO BE PROVIDED W/ -

A 5"x24" CAST IRON "DUMP NO WASTES -

INCH RAISED LETTERING) PLATE W/ TROUT

LOGO AS MANUFACTURED BY E. JORDAN IRON WORKS OR APPROVED EQUAL

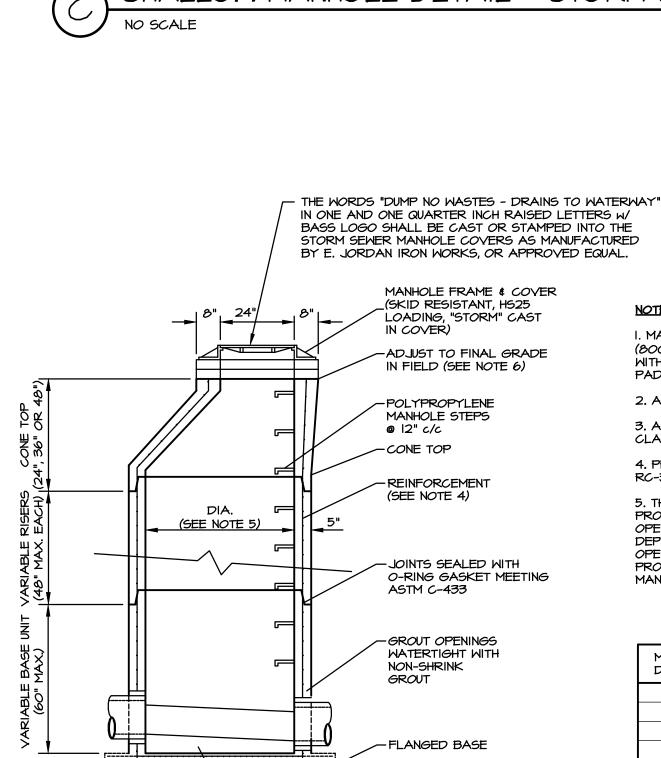
BICYCLE SAFE GRATE ----

DRAINS TO WATERWAY" (WITH ONE-HALF



### INLET NOTES:

- MATERIAL AND CONSTRUCTION BASED UPON PENNDOT STANDARDS AND SPECIFICATIONS. ALL CONSTRUCTION SHALL BE IN GENERAL ACCORDANCE WITH PA DOT PUBLICATION 408, SECTION 605 & APPLICABLE PENNDOT STANDARDS FOR ROADWAY CONSTRUCTION PERTAINING TO INLET STRUCTURES.
- 2. THIS DETAIL DEPICTS THE SHAPE AND DIMENSIONS REQUIRED FOR UNIFORMITY AND COMPATIBILITY. IT IS NOT INTENDED TO SHOW THE DETAILS REQUIRED FOR MANUFACTURING AND HANDLING. ONLY THOSE ITEMS WHICH ARE SUPPLIED BY AN APPROVED MANUFACTURER
- 3. INLETS WITHIN THE PENNDOT RIGHT OF WAY SHALL BE IN ACCORDANCE WITH PENNDOT ROADWAY CONSTRUCTION STANDARDS, LATEST REVISION, AND AS PER APPROVED PENNDOT HIGHWAY OCCUPANCY PERMIT PLANS.
- 4. INLETS WITHIN A MUNICIPAL ROADWAY/RIGHT OF WAY SHALL BE APPROVED BY THE MUNICIPALITY PRIOR TO CONSTRUCTION.
- 5. CONTRACTOR SHALL VERIFY INLET BOX SIZING BASED ON PIPE SIZES, MATERIAL AND ALIGNMENT PRIOR TO ORDERING PRE CAST STRUCTURES.
- 6. CONCRETE TOP UNITS WHICH SEAT THE GRATE DIRECTLY WITHIN THE UNIT SHALL UTILIZE 1-1/4" X I-I/4" ANGLES EMBEDDED IN THE CONCRETE AS A BEARING AREA FOR THE GRATE.
- 7. WHENEVER AN INLET IS REQUIRED WITHIN A MOUNTABLE CURB SECTION, A TYPE M INLET WILL BE LOCATED ADJACENT TO THE BACK EDGE OF THE CURB AND WILL BE FLUSH WITH THE PAVEMENT SURFACE. SEE PA DOT RC-65 FOR INSTALLATION DETAILS.
- 8. THE SELECTION OF COMPONENTS TO ACHIEVE A SPECIFIED INLET TYPE IS THE CONTRACTOR'S
- 9. PIPES SHALL BE LOCATED AS REQUIRED.
- 10. WEEP HOLES SHALL BE INSTALLED IN INLET BOXES WITHIN PAVED AREAS TO PERMIT DRAINAGE OF THE PAVEMENT SUBBASE, UNLESS OTHERWISE APPROVED.
- II. USE PRE CAST CONCRETE GRADE ADJUSTMENT RINGS FOR FINAL GRADE. BRICKS, BLOCKS, MORTAR, ETC. ARE NOT PERMITTED AS GRADE ADJUSTMENTS.
- 12. INLET BOX SHALL BE PRE CAST CONCRETE, UNLESS OTHERWISE SPECIFIED OR APPROVED.
- 13. ALL ON-SITE INLETS SHALL HAVE TOP UNITS TO MATCH CURB REVEAL AND SPECIFIED SUMP.
- 14. INLETS THAT ARE FIVE FOOT OR GREATER IN DEPTH SHALL HAVE POLYPROPYLENE ENCASED MANHOLE STEPS INSTALLED.
- 15. ALL DRAINAGE STRUCTURES SHALL HAVE POURED-IN-PLACE CONCRETE CHANNEL BOTTOM, UNLESS OTHERWISE NOTED (SUCH AS SNOUTS, WATER QUALITY INLETS, DESIGNATED SEDIMENT STORAGE, ETC.) ON THE PLANS.
- 16. PROVIDE PRECAST OPENING IN THE INLET BOX FOR ALL ROOF LEADER DRAINAGE CONNECTIONS, UNLESS OTHERWISE APPROVED. PROVIDE OPENINGS TO THE INLET BOX AT THE REQUIRED ELEVATIONS AND LOCATION. ALL CONNECTIONS SHALL BE WATERTIGHT.
- 17. PROVIDE PRE-CAST OPENINGS IN THE INLET BOX TO ACCOMMODATE ROADWAY, PARKING, AND BUILDING UNDERDRAINS WHERE SPECIFIED ON THE PLANS.
- 18. A 2" SUMP ON TYPE 'C' INLETS SHALL BE PROVIDED ONLY WHERE NOTED ON THE STORMWATER PIPE PROFILES. THE 2" SUMP TRANSITION ALONG CURB GUTTER LINE SHALL BE ADJUSTED ACCORDINGLY FOR FIELD CONDITIONS, ADA REQUIREMENTS, AND/OR AS SPECIFIED/DETAILED ON THE PLANS.
- 19. FINAL INLET TOP OF GRATE ELEVATION SHALL BE ADJUSTED TO ACCOUNT FOR SPECIFIED
- 20. GROUT OPENINGS AROUND PIPE CONNECTIONS TO PROVIDE A WATERTIGHT JOINT. USE NON-SHRINK GROUT ON INSIDE & OUTSIDE OF STRUCTURE.
- 21. ALL JOINTS ADJACENT TO BITUMINOUS PAVING SHALL BE SEALED WITH PG64-22.
- 22. PROVIDE 2'X6' INLET BOXES, DOUBLE 2'X4' BOXES, ETC. WHERE NOTED ON THE PLAN.
- 23. CONSULT THE PLANS FOR ANY SPECIFIC SUMP REQUIREMENTS FOR TYPE 'M' INLETS LOCATED IN A SAG CONDITION.
- 24. CONCRETE INLETS WITHIN STINSON DR., SHALL HAVE A MINIMUM OF TWO COURSES OF BRICK MASONRY OR GRADE RINGS TO BRING THE GRATE OR COVER TO PROPER ELEVATION. IF BRICK IS USED, EVERY THIRD VERTICAL JOINT SHALL BE LEFT OPEN; IF GRADE RINGS ARE USED, THE HORIZONTAL JOINTS SHALL BE LEFT OPEN TO FACILITATE DRAINAGE OF THE BASE COURSE. GEOTEXTILE FABRIC SHALL BE WRAPPED AROUND THE OUTSIDE OF THE BRICK MASONRY OR GRADE RINGS TO PREVENT THE WASHING OF FINES INTO THE STRUCTURE.



4'-0"

5'-*0*"

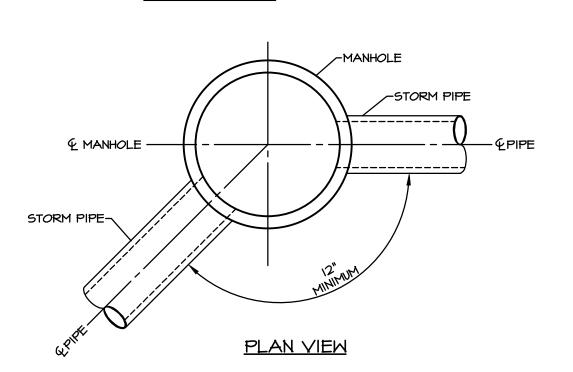
6'-0"

### SECTION VIEW

FRAME AND COVER

RINGS AS NEEDED)

(INSTALL GRADE ADJUSTMENT-



-CHANNEL FORMED IN FIELD BY CONTRACTOR

\$4 BARS, DIAGONALLY

PRECAST RISER

-MANHOLE BASE

SECTION, HEIGHT VARIES

AROUND OPENING

--- MANHOLE STEPS

-4" MIN AASHTO #57 OR #8

5"

6"

8"

- I. MANHOLE BASED UPON TERRE HILL CONCRETE PRODUCTS, TERRE HILL, PA (800-242-1509). USE ONLY PADOT MANHOLES CONSTRUCTED IN ACCORDANCE WITH PADOT PUBLICATION 72, RC-39 STANDARD, WHERE PERFORMING WORK IN PADOT RIGHTS-OF-WAY.
- 2. ALL PRECAST MANHOLES SHALL MEET THE REQUIREMENTS OF ASTM-C478.
- 3. ALL CONCRETE SHALL CONFORM TO PADOT PUBLICATION 408, SECTION 714, CLASS AA.
- 4. PROVIDE REINFORCEMENT IN ACCORDANCE WITH PADOT PUBLICATION 72,
- 5. THE DIAMETER OF THE MANHOLES PROVIDED SHALL BE BASED UPON PROVIDING A MINIMUM OF 12-INCHES OF HORIZONTAL SEPARATION BETWEEN OPENINGS LOCATED AT THE SAME DEPTH, PIPES NOT LOCATED AT THE SAME DEPTH MUST BE LOCATED VERTICALLY AT LEAST ONE TIMES THE MAXIMUM OPENING DIAMETER APART WHERE THE HORIZONTAL SEPARATION IS NOT PROVIDED. IN ALL CASES, THE MAXIMUM PIPE SIZE AND OPENING IN PRECAST MANHOLES SHALL BE AS FOLLOWS:

MANHOLE DIA.	MAXIMUM PIPE SIZE	MAXIMUM OPENING
4'-0"	30"	38"
5'-0"	42"	50"
6'-0"	54"	62"
8'-0"	72"	80"

6. ADJUST MANHOLE TO FINAL GRADE WITH PRECAST CONCRETE GRADING RINGS. MAXIMUM ADJUSTMENT IS 12-INCHES.

7. PROVIDE GRADE ADJUSTMENT RISERS OF ADJUSTABLE INSERTS IN ACCORDANCE WITH PADOT PUBLICATION 72, RC-39 STANDARD. LOCATE TOP OF FRAME OF ADJUSTMENT RISER I/8" BELOW THE TOP OF THE ROADWAY SURFACE.

8. FRAME AND/OR PRECAST CONCRETE GRADE RINGS TO BE ATTACHED RIGIDLY TO THE TOP OF THE MANHOLE WITH THREADED STUDS IN ACCORDANCE WITH PADOT PUBLICATION 72, RC-39 STANDARD. THE BASE OF THE FRAME AND/OR PRECAST CONCRETE GRADE RINGS TO BE SET IN A BED OF CEMENT MORTAR.

9. SEAL ALL JOINTS BETWEEN MANHOLE SECTIONS WITH "RAMNEK" OR EQUAL

IO. ALL PROPOSED AND EXISTING ROOF LEADER DRAINAGE CONNECTIONS TO BE CORE-BORED INTO THE MANHOLE AT THE REQUIRED ELEVATION AND LOCATION AND ATTACHED WITH A WATERTIGHT CONNECTION.

II. CONTRACTOR SHALL VERIFY MANHOLE SIZING BASED ON PIPE SIZES, MATERIAL, AND ALIGNMENT PRIOR TO ORDERING PRECAST STRUCTURES.

12. THIS STANDARD DEPICTS THE SHAPE AND DIMENSIONS REQUIRED FOR UNIFORMITY AND COMPATIBILITY. IT IS NOT INTENDED TO SHOW THE DETAILS REQUIRED FOR MANUFACTURING AND HANDLING. ONLY THOSE ITEMS WHICH ARE SUPPLIED BY AN APPROVED MANUFACTURER AS LISTED IN PA BULLETIN NO. 15





FORMED FLOW CHANNEL TO HAVE SEMICIRCULAR GEOMETRY AND BE

CONTRACTOR SHALL PROVIDE A SMOOTH, UNIFORM ELEVATION CHANGE FROM THE INVERT IN TO THE INVERT OUT ALONG THE FLOW CHANNEL FOR ALL STRUCTURES, IN ACCORDANCE WITH THE ELEVATIONS AS IDENTIFIED ON THE STORM

3. FLOW CHANNEL TO BE CONSTRUCTED WITH CONCRETE (3000 PSI) OR OTHER SUITABLE, COUNTY APPROVED MATERIAL.

WATER PROFILES SHEETS.

4. ALL UNDERGROUND STORMWATER PIPING, OTHER THAN THOSE SPECIFICALLY INTENDED FOR GROUNDWATER COLLECTION, SHALL BE CONSTRUCTED WITH WATERTIGHT JOINTS AND CONNECTIONS

CATCH BASIN FLOW CHANNEL

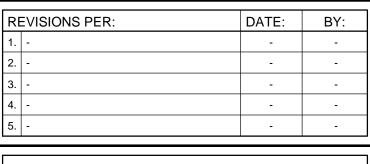
FORMED SEMI-CIRCULAR

CONCRETE FLOW CHANNEL

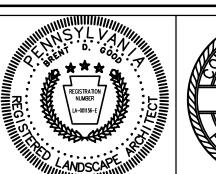
FORMED CONCRETE

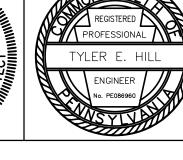
FLOW CHANNEL (FLOW -

LINE) - SEE NOTES









PRELIMINARY PLAN STORMWATER DETAILS

WESTMOUNT MOUNT JOY TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA

VISTABLOCK, LLC 150 FARMINGTON LANE

LANCASTER, PA 17601 717-682-8775 BDG DATE: OCTOBER 7, 2024

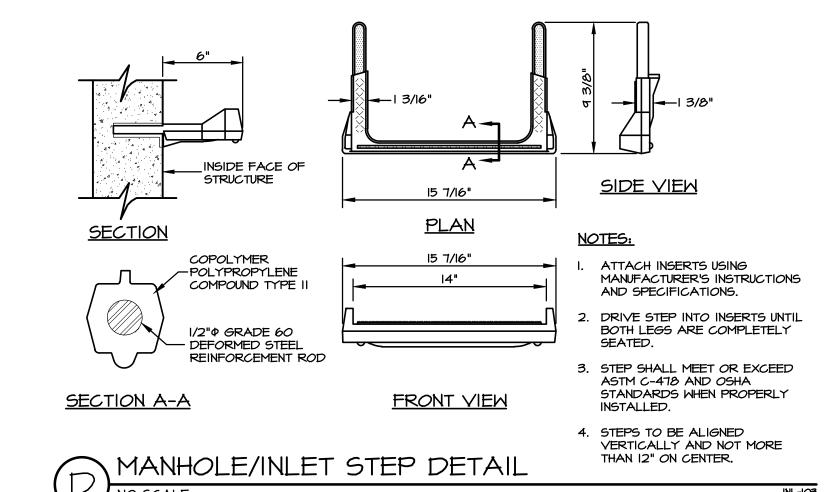
MANAGER: DESIGNER BDG PROJECT NO. 1212-004 DRAWN BY BLM | SCALE: AS NOTED

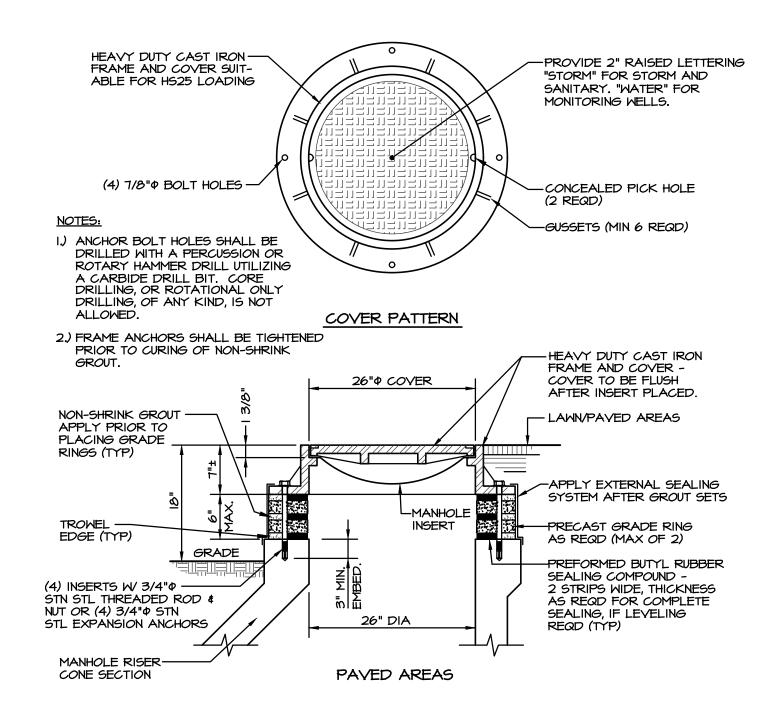
DRAWING NO.

PA DOT TYPE STORMWATER INLETS (TYPE 'C' & 'M')

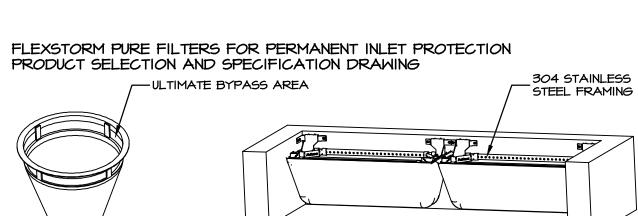
- I. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH PA DOT PUBLICATION 408, SECTION 605 & STANDARDS FOR ROADWAY CONST. RC-34. CONTRACTOR SHALL VERIFY INLET BOX SIZING BASED ON PIPE SIZES & ALIGNMENT PRIOR TO ORDERING PRECAST STRUCTURES.
- 2. ALL DRAINAGE STRUCTURES SHALL HAVE POURED-IN-PLACE CONCRETE CHANNEL BOTTOMS.

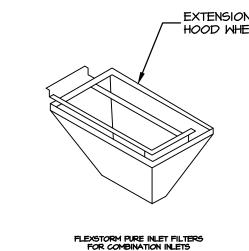


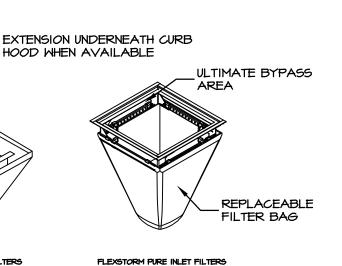




E)STANDARD MANHOLE FRAME & COVER







		MINIMUM BYPASS FLOW RATES (CFS)*
FOR ROUND OPENINGS W	ITH GRATES	BASED ON NOMINAL FRAME SIZE WITH
DROP THRU OPENING SIZE DIA.	FLEXSTORM FRAME P/N	MINIMUM 2" BYPASS FLOW GAP
SMALL: 10.0" - 18.0"	625HDR	1.6
MEDIUM: 18.1" - 24.0"	62MHDR	2.7
LARSE: 24.1" - 36.0"	62LHDR	3.8

FLEXSTORM FRAME P
62HDWMI
02HDHMI
62HDWM2
62HDWM3
62HDWM4

	MINIMUM BYPASS FLOW RATES (CFS)4		
FOR RECTANGULAR OPENINGS WITH GRATES		BASED ON NOMINAL FRAME SIZE WITH	
DROP THRU OPENING SIZE DIA.	FLEXSTORM FRAME P/N	COMBINATION PAN	MINIMUM 2" BYPASS FLOW GAP
SMALL: 12" x 12" UP TO 16" x 16" (OR 64" MAX. PERIMETER)	625HD	625HDCB	2.4
MEDIUM. 18" x 18" UP TO 24" x 24" (OR 46" MAX. PERIMETER)	62MHD	62MHDCB	3.5
LARGE: 26" x 26" UP TO 30" x 30" (OR 120" MAX. PERIMETER)	62LHD	62LHDCB	5.0
XL: 32" x 32" UP TO 48" x 48" (OR 142" MAX. PERIMETER) TYP. 2 PC SET	62XLHD	62XLHDCB	7.2

FLEXSTORM FILTER BAGS	(22" DEPTH) STD BAG P/N	(12" DEPTH) SHORT BAG P/N	CLEAN WATER FLOW RATE (GPM/SQ. FT.)	MIN. A (US SIE
FX: STANDARD WOVEN BAG	FX	FX-S	200	40
FX+: MOVEN W/ MYCELX	FXP	FXP-5	200	40
FXO: WOVEN W/ OIL BOOM	FXO	FXO-S	200	40
PC: POST CONSTRUCTION BAG	PC	PC-S	137	140
PC+: PC BAG W/ MYCELX	PCP	PCP-S	137	140
LL: LITTER AND LEAF BAG	Ш	LL-5	HIGH	3.
IL: IDOT NON-MOVEN BAG	IL	IL- <del>S</del>	145	70

AND L	EAF BAG	Ц	LL-S	HIGH	
ON-MOV	ÆN BAG	IL	IL-S	145	
					1
	3. CREATE YOUR FLEXSTORM INLET FILTER PART NUMBER				

FRAME PAN FROM STEP I. FILTER BAG PAN FROM STEP 2.

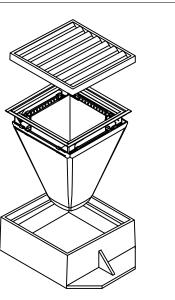
FLEXSTORM PURE INLET FILTERS
FOR ROUND OPENINGS

- I. ALL FRAMING IS CONSTRUCTED OF 304 STAINLESS STEEL FOR 25 YEAR SERVICE LIFE RATING.
- 2. TOTAL BYPASS CAPACITY: BYPASS CAPACITY WILL VARY WITH EACH SIZE DRAINAGE STRUCTURE, FLEXSTORM DESIGNS FRAMING BYPASS TO MEET OR EXCEED THE DESIGN FLOW OF THE PARTICULAR DRAINAGE STRUCTURE.
- 3. UPON ORDERING CONFIRMATION OF THE DOT CALLOUT, PRECAST OR CASTING MAKE AND MODEL, OR DETAILED DIMENSIONAL FORMS MUST BE PROVIDED TO CONFIGURE AND ASSEMBLE YOUR CUSTOMIZED FLEXSTORM INLET FILTER. PART NUMBER ALONE IS NOT SUFFICIENT.
- 4. FOR WRITTEN SPECIFICATIONS AND MAINTENANCE GUIDELINES VISIT WWW.INLETFILTERS.COM

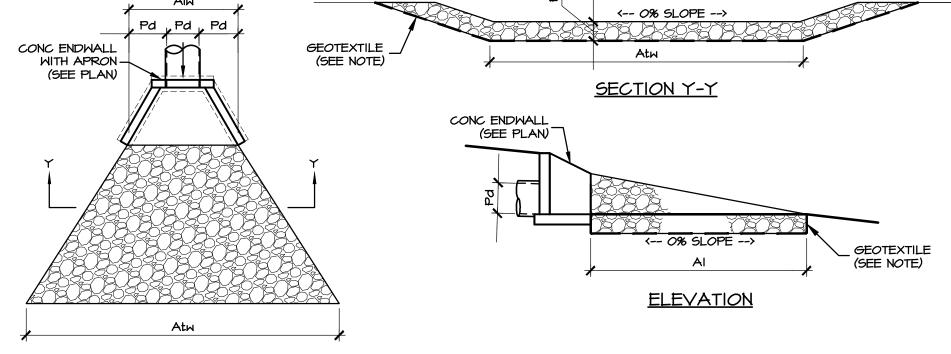
NOMINAL BAG	SOLIDS	FILTERED	FLOW RATE AT 50	% MAX (CFS)	# PC OIL	## PC+ OIL	IL * FX+ OIL	
SIZE MATCHED TO FRAME SIZE	STORAGE (CuFt)	FX (MOVEN)	PC (POST CONST.)	IL (NON-MOYEN)	IL RETENTION RETENTION RETENTION	RETENTION		
SMALL	1.6	1.2	0.8	0.9	79	168	89	
MEDIUM	2.1	1.7	1.2	1.3	115	204	89	
LARGE	3.8	2.7	اه.ا	1.4	173	262	89	
ХL	4.2	3.6	2.4	2.6	230	319	178	
FILTRATION	I EFFICIENCY	82%	N/A			ESTING PER AST IDA SANDY LOA		
TSS (TOTAL SUSPE	NDED SOLIDS REM)	N/A	99%	LARGE SCALE TESTING AT 90 GPM USING US SILICA OK-110 SAND AT 1750 mg/L MEASURING TSS SM 2540D.				
PH (TOT PETROLEUM HYDROCARBONS)		N/A	44%	LARGE SCALE TESTING AT 40 GPM WITH USED MOTOR OIL AT 243 mg/L MEASURING PER EPA METHOD 1664A.				

### NOTES:

- REMOVE GRATE.
- 2. DROP FLEXSTORM INLET FILTER ONTO LOAD BEARING LIP OF CASTING OR CONCRETE STRUCTURE.
- 3. REPLACE GRATE.



BOTTOM ELEVATION IS ABOVE FINAL GRADE ELEVATION, INSTALL AN ADDITIONAL 12" OF RIP-RAP ABOVE SURFACE TO BE GENERALLY FLUSH WITH OUTLET ELEVATION.



RIPRAP APRON MAINTENANCE PROGRAM

DISPLACED RIPRAP WITHIN THE APRON SHALL

BE REPLACED IMMEDIATELY.

RIPRAP APRON INSPECTION

SCHEDULE AND REPORTING

WEEKLY INSPECTION)

ACTIONS; AND

INSPECTION.

OCCUR AS FOLLOWS:

WEEKLY

THE FOLLOWING:

I. INSPECTION OF RIPRAP APRONS SHALL

AFTER EACH RUNOFF EVENT (THIS IS

2. A WRITTEN REPORT DOCUMENTING EACH INSPECTION AND ANY REPAIRS MADE SHALL BE KEPT AND SHALL INCLUDE, AT A MINIMUM,

REQUIRED IN ADDITION TO THE REQUIRED

(I) A SUMMARY OF SITE CONDITIONS, E&S BMP AND POSM BMP, IMPLEMENTATION

(2) THE DATE, TIME, NAME AND SIGNATURE OF THE PERSON CONDUCTING THE

3. FOR ADDITIONAL INSPECTION AND REPORTING

NPDES PERMIT CONDITIONS, EFFLUENT

REQUIREMENTS, ITEM NO. 2.A (VISUAL

INSPECTIONS) FOUND ON SHEET XXX.

REQUIREMENTS AND INFORMATION, SEE THE

LIMITATIONS, MONITORING, AND REPORTING

AND MAINTENANCE AND COMPLIANCE

- I. ALL APRONS SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN. TERMINAL WIDTHS SHALL BE ADJUSTED AS NECESSARY TO MATCH RECEIVING CHANNELS.
- 2. RIPRAP APRONS SHOULD BE CONSTRUCTED AT OR NEAR ZERO GRADE FROM BACK TO FRONT AND SIDE TO SIDE. WHERE APRONS ARE CONSTRUCTED WITH A GRADIENT BACK TO FRONT, THE ROCK SIZE AND/OR APRON LENGTH SHOULD BE ADJUSTED UPWARDS TO COMPENSATE. IN NO CASE SHOULD RIPRAP APRONS BE CONSTRUCTED WITH A BACK TO FRONT GRADIENT EXCEEDING 5%.
- 3. INSTALL CLASS 2 GEOTEXTILE MATERIAL BETWEEN RIPRAP AND SUBGRADE.

<u>PLAN</u>

4. USE THIS CONFIGURATION FOR ALL RIPRAP PLACEMENT AT OUTLET STRUCTURES UNLESS OTHERWISE NOTED.

	PIPE DIA.	RI	PRAP	APRON		
OUTLET NO.	OUTLET   (Pd)     THICKNEY			LENGTH AI (FT)	INITIAL WIDTH AIW (FT)	TERMINAL WIDTH Atw (FT)

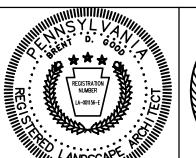
\* FOR ENDWALLS DISCHARGING TO BASINS WHERE TEMPORARY SEDIMENT BASIN

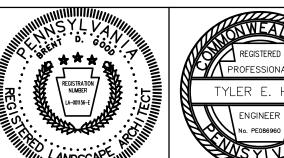
		ა.	-	-	_
		4.	-	-	-
GEOTEXTILE (SEE NOTE)		5.	-	1	ı
(SEE NOTE)	H				
·					
	П				

**REVISIONS PER:** 



DATE: BY:





PRELIMINARY PLAN STORMWATER DETAILS

WESTMOUNT

VISTABLOCK, LLC 150 FARMINGTON LANE LANCASTER, PA 17601

717-682-8775

MOUNT JOY TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA

MANAGER:	BDG	DATE: OCT	OBER 7, 2024
DESIGNER:	BDG	PROJECT NO	). 1212-004
DRAWN BY:	BLM	SCALE:	AS NOTED

FLEXSTORM INLET FILTERS FOR NYLOPLAST DRAIN BASINS

RIPRAP APRON DETAIL (W/ ENDWALL)

PAVED AREAS GRASS AREAS 12" (RESTORATION ONLY) SEAL EDGE -WAC-20 (RESTORATION ONLY) 4" - 6" TOPSOIL W/ SEED - PAVEMENT AS SPECIFIED COMPACTED\_ PADOT NO 2A BACKFILL STONE BACKFILL AASHTO NO. 8 STORM PIPE -INITIAL BACKFILL AASHTO NO. 8 PIPE BEDDING NOTES:

THIS DETAIL IS NOT TO BE USED FOR PIPES CONNECTED TO OUTLET STRUCTURES OR INTENDED TO CONVEY RUNOFF FROM STORMWATER MANAGEMENT FACILITIES. 2. STORMWATER FACILITY OUTLET PIPES SHALL BE LAID AND BACKFILLED WITH COMPACTED SOILS FROM THE SITE.

PIPE SL*O*PE

ROOF AREA

(SF)

PVC PIPE

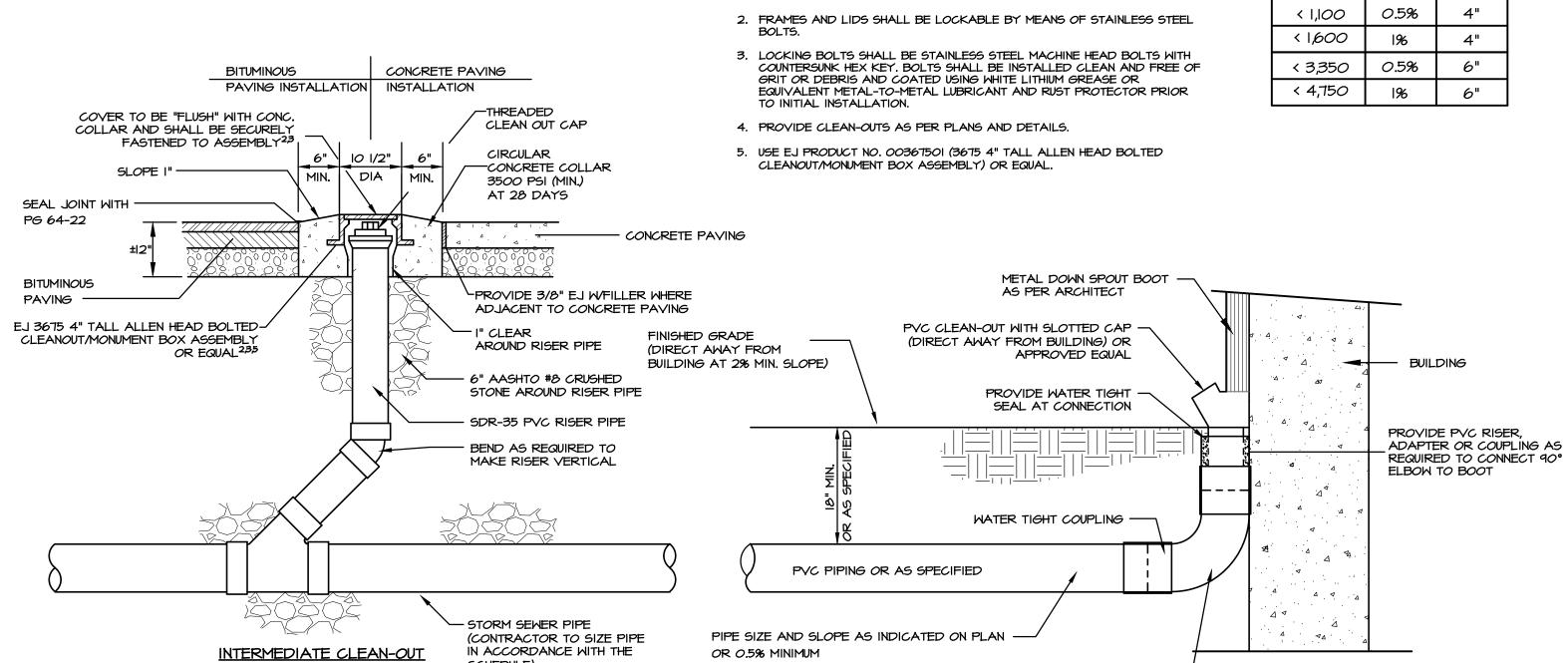
SIZE (IN)

STORM PIPE TRENCH DETAIL

TYPICAL DOWNSPOUT W/ SPLASH BLOCK DETAIL

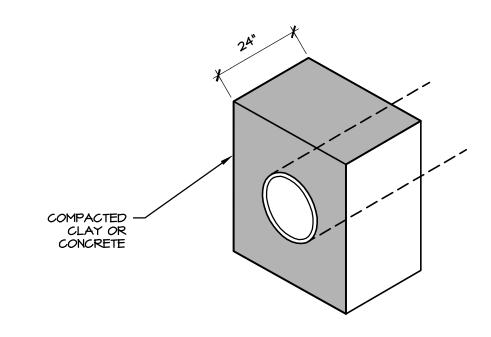
NOTES: I. FITTINGS, ADAPTERS, COUPLINGS AND OTHER APPURTENANCES SHALL BE PROVIDED AS REQUIRED TO CONNECT STORM SEWERS TO DOWN SPOUTS INSTALLED BY OTHERS, AND TO EXISTING DOWNSPOUTS AS INDICATED. CONNECTION SHALL BE MADE AT OR BELOW GRADE AND BE WATER TIGHT.

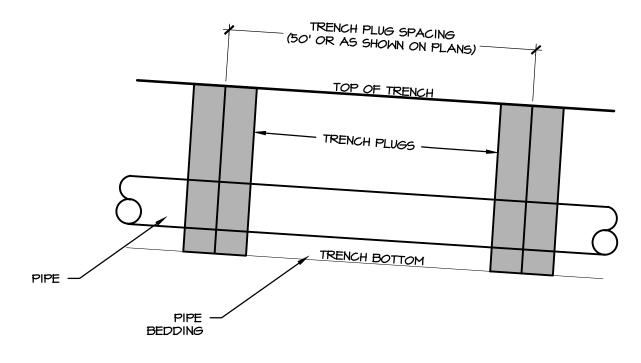
PYC BEND ---



TYPICAL CONNECTION TO DOWNSPOUT WITH INTERMEDIATE CLEANOUT

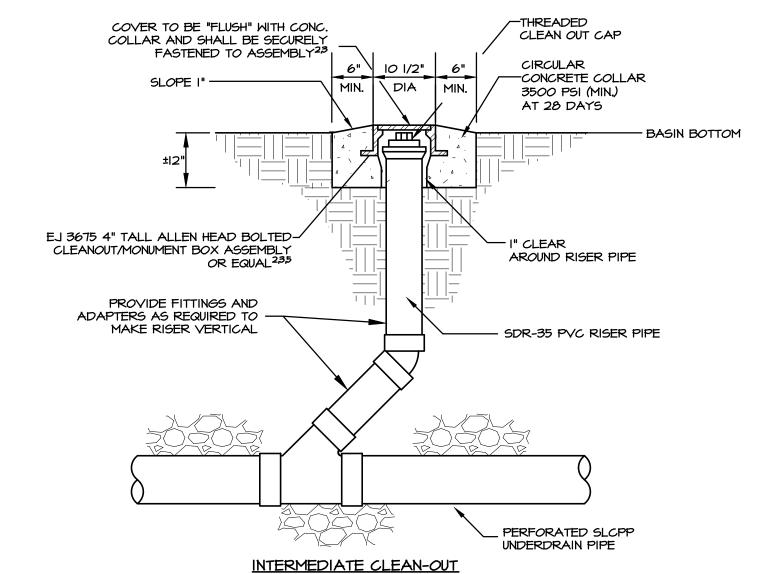
SCHEDULE)

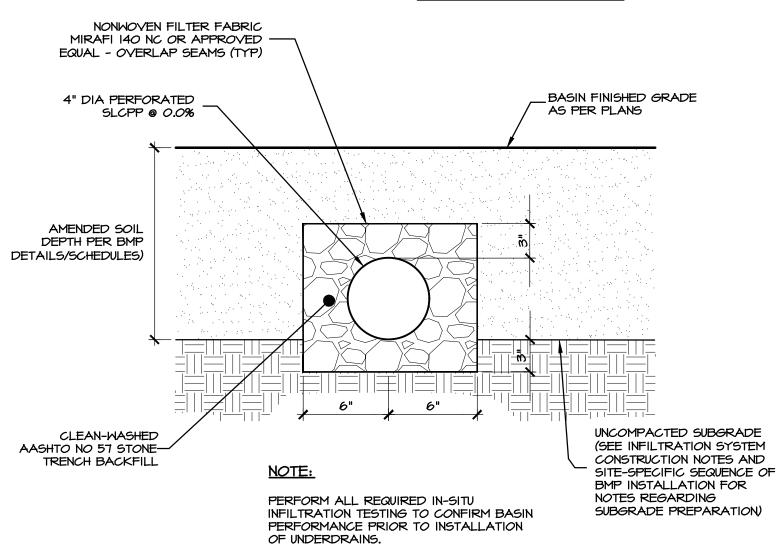




TRENCH PLUG DETAIL

NO SCALE





I. FITTINGS, ADAPTERS, COUPLINGS AND OTHER APPURTENANCES SHALL BE PROVIDED AS REQUIRED TO CONNECT STORM SEWERS TO DOWN SPOUTS INSTALLED BY OTHERS, AND TO EXISTING DOWNERS AS INDICATED. DOWNSPOUTS AS INDICATED. CONNECTION SHALL BE MADE AT OR BELOW GRADE AND BE WATER TIGHT.

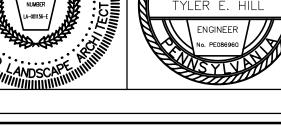
- 2. FRAMES AND LIDS SHALL BE LOCKABLE BY MEANS OF STAINLESS STEEL BOLTS.
- 3. LOCKING BOLTS SHALL BE STAINLESS STEEL MACHINE HEAD BOLTS WITH COUNTERSUNK HEX KEY. BOLTS SHALL BE INSTALLED CLEAN AND FREE OF GRIT OR DEBRIS AND COATED USING WHITE LITHIUM GREASE OR EQUIVALENT METAL-TO-METAL LUBRICANT AND RUST PROTECTOR PRIOR TO INITIAL INSTALLATION.
- PROVIDE CLEAN-OUTS AS PER PLANS AND DETAILS.
- 5. USE EJ PRODUCT NO. 00367501 (3675 4" TALL ALLEN HEAD BOLTED CLEANOUT/MONUMENT BOX ASSEMBLY) OR EQUAL.

STORMWATER BASIN UNDERDRAIN SYSTEM DETAIL

RE	EVISIONS PER:	DATE:	BY:			
1.	-	-	-			
2.	-	-	-			
3.	-	-	-			
4.	-	-	-			
5.	-	-	-			







STORMWATER DETAILS WESTMOUNT MOUNT JOY TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA

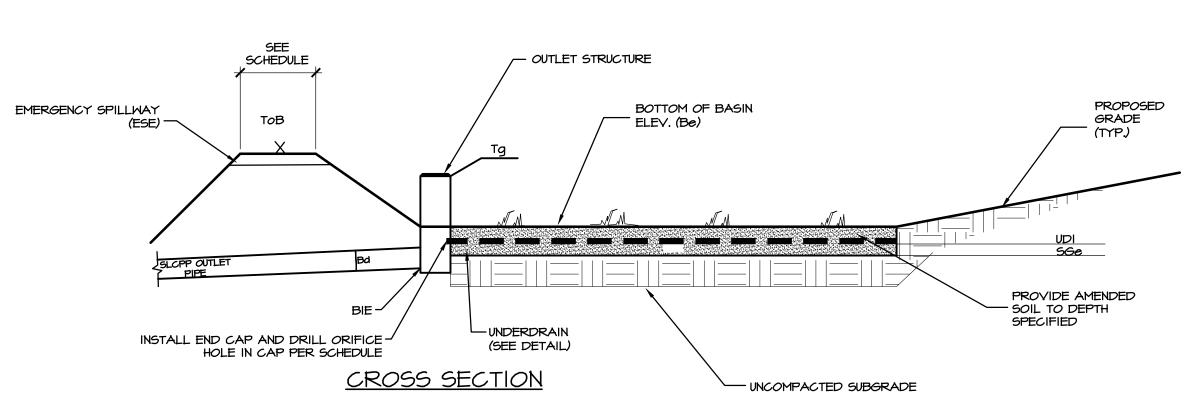
VISTABLOCK, LLC

PRELIMINARY PLAN

150 FARMINGTON LANE LANCASTER, PA 17601 717-682-8775 BDG DATE: OCTOBER 7, 2024

MANAGER: BDG PROJECT NO. 1212-004 DESIGNER: DRAWN BY BLM | SCALE: AS NOTED

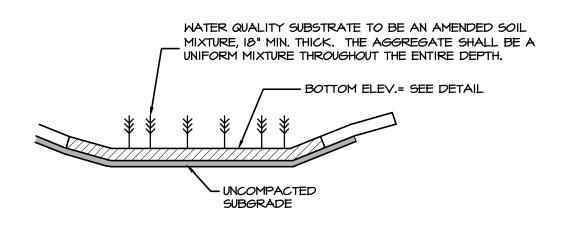
DRAWING NO.



- I. BASIN DISCHARGE PIPE TO BE PROVIDED WITH WATER TIGHT JOINTS. ALL CONNECTIONS TO STORM STRUCTURES SHALL BE WATER TIGHT. BACKFILL TRENCH WITH COMPACTED ONSITE MATERIAL
- 2. STRIP AND REMOVE ALL TOPSOIL AND ORGANIC MATTER FROM THE SUBGRADE OF THE BASIN EMBANKMENT AREA.
- 3. FINAL INTERIOR/EXTERIOR SIDE SLOPES SHALL NOT EXCEED A 3H:IV SLOPE. SEE APPROVED GRADING PLAN.

	BIO-RETENTION BASIN W/ MRC DESIGN SCHEDULE										
DV4D	ВОТТОМ	SUBGRADE	UNDERDRAIN	UNDERDRAIN	TOP OF	BERM	EMERGENCY	OUTLET	STRUCTURE	OUTLET PI	PE
BMP NO.	ELEV. (Be)	ELEV. (SGe)	INVERT (UDI)	ORIFICE DIA. (IN.)	BERM (ToB)	WIDTH (FT)	SPILLWAY (ESE)	TYPE	TOP OF GRATE (TG)	INVERT ELEV. (BIE)	SIZE (IN.)
15	364.00	362.00	363.00	2"	367.50	5	366.25	2'x4' CONC. INLET	365.75	363.00	15
20	366.00	364.00	365.00	2"	370.50	5	369.25	2'X4' CONC. INLET	368.75	364.00	12
23	382.00	380.00	381.00	2"	386.00	5	384.75	2'X4' CONC. INLET	384.00	381.00	12
26	393.50	391.50	392.50	2"	397.00	5	396.00	2'x4' CONC. INLET	395.25	392.00	12

TYPICAL BIO-RETENTION BASIN CROSS-SECTION DETAIL



### AMENDED SOIL MIXTURE NOTES

- I. WATER QUALITY SUBSTRATES AND ASSOCIATED SOILS SHALL BE SELECTED TO ENSURE CONVEYANCE AND PERMEABILITY (MIN. I"/HR. MAX 6"/HR) TO THE PROPOSED UNDERDRAIN OR SUBGRADE.
- 2. IN-PLACE INFILTRATION TESTS OF THE AMENDED SOIL IS REQUIRED IN ALL INFILTRATION BMPS WHERE AMENDED SOILS ARE PROPOSED. A MINIMUM OF TWO TESTS PER BASIN SHALL BE PERFORMED UTILIZING ACCEPTABLE METHODS AS DESCRIBED IN THE PADEP BMP MANUAL IN ORDER TO CONFIRM THAT ACCEPTABLE INFILTRATION RATES HAVE BEEN ACHIEVED.
- 3. CLAY SOILS OR OTHER COHESIVES THAT PREVENT INFILTRATION SHALL NOT BE PERMITTED. 4. ALL SOIL TO BE UTILIZED IN THE AMENDED SOIL MIXTURE SHALL BE TESTED AND VERIFIED TO CONTAIN A MAXIMUM OF 5% CLAY CONTENT, OR A PERCENTAGE APPROVED BY THE TESTING
- AGENCY TO ENSURE PROPER PERMEABILITY. 5. ALL SOILS SHALL BE TESTED AND VERIFIED NOT TO CONTAIN ANY CONTAMINANTS OR OBJECTIONABLE MATERIALS THAT WOULD COMPROMISE THE INTENT OF WATER QUALITY.
- 6. THE LEAF BASED COMPOST SHALL BE PROVIDED WITH A MATERIAL CERTIFICATION FROM THE SUPPLIER FOR APPROVAL PRIOR TO INSTALLATION. NO BIO-SOLIDS OR OTHER SUCH CONTAMINATES ARE PERMITTED.

### SOIL INSTALLATION & COMPACTION NOTES FOR BMP:

I. CONTRACTOR TO SELECT EQUIPMENT TO MINIMIZE COMPACTION OF THE REQUIRED AMENDED SOILS WITHIN THE BMP AREA. 2. THE AMENDED SOIL MIXTURE SHALL BE FULLY AND PROPERLY BLENDED TO PROVIDE A UNIFORM HOMOGENEOUS MIXTURE.

3. PLACE AMENDED SOIL MIXTURE AT 12" MAX. LIFTS. PRESOAK

LIFTS WITH LIGHT WATERING TO ENCOURAGE NATURAL

COMPACTION OR IF CONSTRUCTION SCHEDULE PERMITS, ALLOW FOR NATURAL SETTLEMENT WITH THE HELP OF RAIN EVENT TO PRESOAK THE SOIL MEDIUM. 4. IF NATURAL SETTLEMENT IS ANTICIPATED, THE CONTRACTOR SHALL BACKFILL AN APPROPRIATE AMOUNT ABOVE THE

SPECIFIED BMP BOTTOM INVERT TO ACCOUNT FOR SUCH.

### TYPICAL AMENDED SOIL MIXTURE

FINE COMPOST MASONRY SAND 80% TOPSOIL

WASTE

FINE COMPOST FOR BMP SOIL: BY VOLUME RECYCLED PLANT

MAX. OTHER APPROVED ORGANIC WASTE (NO POST-COMSUMER FOOD WASTE, MANURE OR BIO-SOLIDS)\*

\*SOIL SAMPLE MUST BE APPROVED BY DESIGN AND MUNICIPAL ENGINEERS PRIOR TO PLACEMENT, CONTRACTOR TO VERIFY NO POST CONSUMER FEED WASTE OR SOLIDS USED IN PREPARATION OF SOILS.

### TOPSOIL VERIFICATION

I. ANY AND ALL TOPSOIL TO BE USED IN AMENDED SOIL MIXTURE SHALL UNDERGO APPROPRIATE LAB TESTING AS PRESCRIBED BY A QUALIFIED GEOTECHNICAL PROFESSIONAL IN ORDER TO DETERMINE THE SUITABILITY FOR USE IN THE ABOVE AMENDED SOIL BLEND MIX.

### SEEDING NOTES AND RECOMMENDATIONS FOR BMP BASINS

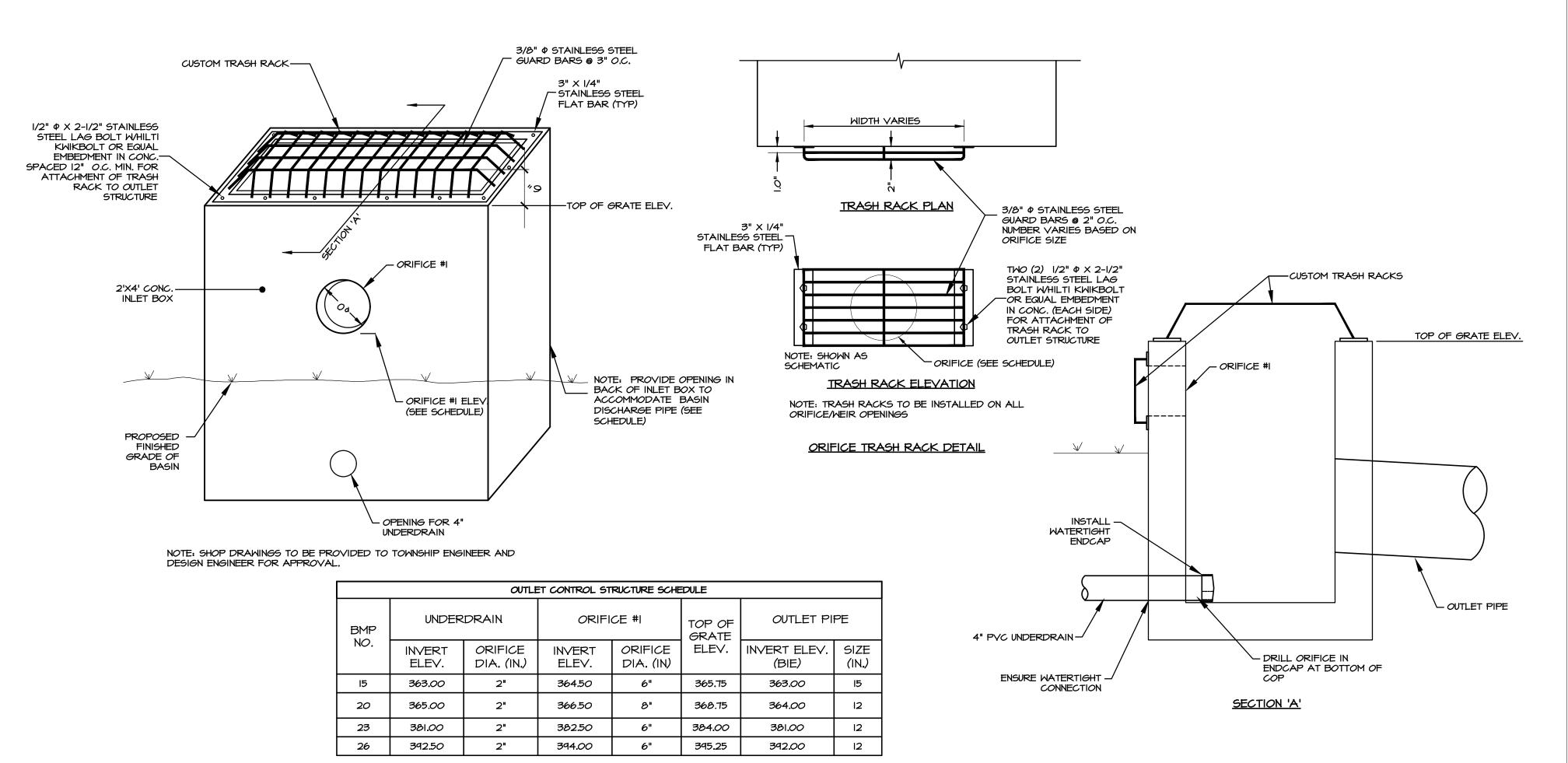
- TO PREVENT SEED MIGRATION IN RAIN EVENTS, HYDROSEEDING OR AN APPROVED METHOD SHALL BE EMPLOYED TO THE BASIN BOTTOM ACCORDING TO
- MANUFACTURES RECOMMENDATIONS. 2. SUCH HYDROSEEDING SHALL INCORPORATE AN APPROPRIATE MIXTURE OF SEED, MULCH, AND TACKIFIER COAGULANT TO WATER TO FORM A THICK SLURRY. THIS SLURRY IS APPLIED WITH PRESSURE TO PREPARED SOIL SURFACE FOR BETTER SEED GERMINATION AND PLANT DEVELOPMENT, WHILE
- PREVENTING EROSION. 3. SUPPLEMENTAL WATERING MAY BE NECESSARY IF PLANTING
- DURING PERIODS OF DRY WEATHER. 4. IN ANTICIPATED AREAS OF EROSION FROM STORMWATER INUNDATION, A JUTE MATTING OR EQUAL APPROVED EROSION CONTROL LINING SHALL BE INSTALLED ALONG THE BASIN BOTTOM TO PROVIDE A SOIL STABILIZER AND ASSIST WITH PROPER GERMINATION OF THE BMP SEED MIX.
- WHERE A PERMANENT LINING IS SPECIFIED WITHIN THE BMP SEEDING LIMITS, A THIN LAYER OF TOP SOIL SHALL BE PROVIDED OVER THE LINING PRIOR TO SEEDING TO ALLOW FOR A GERMINATION OF THE SEED MIX.

### SEEDING SPECIFICATION

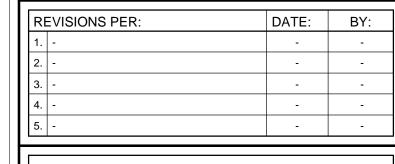
- I. IT IS THE INTENT OF THE SEEDING TO ESTABLISH A MEADOW GRASS BOTTOM OF THE BMP BASIN(S). MEADOW BOTTOMS ARE NOT TO BE MOWED OTHER THAN RECOMMENDED SEMI-ANNUAL MAINTENANCE.
- 2. THE BASIN BOTTOMS, ONCE PLANTED, MUST BE MAINTAINED TO PERMANENTLY ESTABLISH THE REQUIRED VEGETATION. MAINTENANCE MUST INCLUDE WATERING, WEEDING, OVER SEEDING, RE-SEEDING AND ALL OTHER REQUIRED MAINTENANCE.
- 3. THE SEED MIXTURE TO BE USED IS THE FOLLOWING (OR APPROVED EQUAL) AND SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND ASSOCIATED SITE CONDITIONS. IT IS RECOMMENDED THAT THE SEED BE HYDRO- SEEDED INTO THE AMENDED SOILS.
- 4. CONTRACTOR IS TO PROVIDE ERNMX #127 SEED MIX FOR MEADOW BOTTOMS AT A RATE OF 15 LB/AC WITH AN ADDITION OF 4 LB/ACRE (O.I LB/1,000 SQ FT) OF PANICUM ANCEPS (BEAKED PANIGRASS) MD ECOTYPE INTO THE ERNMX-127. AS SPECIFIED BY ERNST SEED.

### MAINTENANCE/ESTABLISHMENT

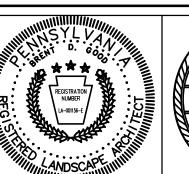
- REGULAR MAINTENANCE OF THE FACILITY FOR THE FIRST 1-3 YEARS IS CRITICAL TO THE ESTABLISHMENT OF DESIRED SPECIES AND DENSE VEGETATION, WHICH IS CRITICAL IN MAINTAINING A WELL DRAINED SOIL, AND SHALL BE OVERSEEN BY A QUALIFIED LANDSCAPING PROFESSIONAL.
- 2. CRITICAL MAINTENANCE DURING THE ESTABLISHMENT PERIOD MAY INCLUDE WATERING, VECTOR CONTROL, ADDITIONAL SEEDING/RE-SEEDING, SEMI-ANNUAL MOWING, ETC.
- 3. AMENDED SOILS AND SEEDING SHOULD ONLY BE PLACED/PLANTED DURING TIMES OF THE YEAR WHERE GERMINATION IS FEASIBLE (SPRING/EARLY FALL), AS DEEMED APPROPRIATE BY A QUALIFIED LANDSCAPING PROFESSIONAL.

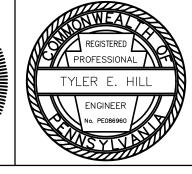


TYPICAL OUTLET STRUCTURE DETAIL FOR BIO-RETENTION BASIN









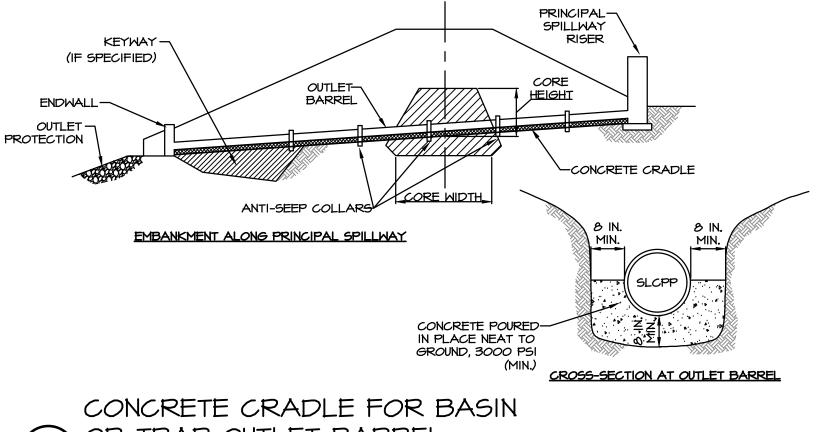
PRELIMINARY PLAN STORMWATER DETAILS WESTMOUNT MOUNT JOY TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA VISTABLOCK, LLC 150 FARMINGTON LANE

LANCASTER, PA 17601

717-682-8775

MANAGER:	BDG	DATE: OCTOBER 7, 2024
DESIGNER:	BDG	PROJECT NO. 1212-004
DRAWN BY:	BLM	SCALE: AS NOTED

BMP AMENDED SOIL/SEEDING NOTES



OR TRAP OUTLET BARREL

S NO. OF COLLAR SPACING (FT) PIPE SIZE (IN) WATERTIGHT CONNECTION 13 12 IN. THICK (MIN.)-CAST-IN-PLACE OR PRECAST CONCRETE COLLAR (MIN. 2000 PSI) ALL COLLARS SHALL BE INSTALLED SO AS TO BE WATERTIGHT. COLLAR SIZE AND SPACING SHALL BE AS INDICATED WITHIN TABLE.

CONCRETE ANTI-SEEP COLLAR FOR PERMANENT BASINS OR TRAPS

TRENCH TRENCHING DETAILS NON-MOVEN EMBANKMENT SECTION ALONG EMERGENCY SPILLWAY
SECTION X-X PLAN YIEM RIPRAP OUTLET DISSIPATOR **GEOTEXTILE** EMERGENCY SPILLWAY DESIGN SCHEDULE WEIR LINING CHANNEL DISSIPATOR I Z5 DEPTH I CREST AIDTH WE TRM/ LINING TYPE STAPLE Z5 PATTERN (FT) WIDTH RIPRAP RIPRAP LENGTH NO. Z3 Z4 ELEV. (FT) (FT) WTE ELEV. Cd DI Dω SIZE **THICKNESS** WCE (FT) (FT) (FT) (FT) (FT) DRt (IN) (R-\_) (FT) 4 4 367.50 366.25 N/A N/A 20 NAG 575 N/A N/A N/A N/A 370.50 N/A N/A N/A N/A N/A

OVERLAPPED STERMINAL END OF TRM

SEE KEY

KEY TRENCH AT TOE OF SLOPE OF SPILLWAY

<u>MEIR</u> SECTION Z-Z

TRENCH END INTO INTERIOR

SLOPE PER MANUFACTURER

N/A 4 | 386.00 | 20 NAG 575 N/A N/A 384.75 N/A N/A N/A 4 | 397.00 | 396.00 N/A N/A N/A N/A N/A N/A

BASIN EMERGENCY SPILLWAY WITH TRM LINING

RIPRAP AT TOE OF EMBANKMENT SHALL BE EXTENDED A SUFFICIENT LENGTH IN BOTH DIRECTIONS TO PREVENT SCOUR.

NOTES:

/EMERGENCY SPILLWAY

TOE OF SLOPE

BASIN BOTTOM

EMBANKMENT INTERIOR

TOP OF EMBANKMENT

EMBANKMENT KEY . EXTERIOR TRENCH

SLOPE

RIPRAP OUTLET / DISSIPATOR

(WHERE SPECIFIED)

SIDE \ SLOPE

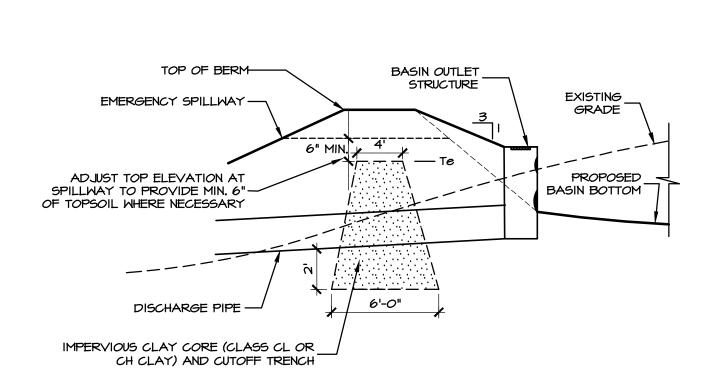
SLOPE

 THE USE OF BAFFLES THAT REQUIRE SUPPORT POSTS ARE RESTRICTED FROM USE IN BASINS REQUIRING IMPERVIOUS LINERS.

3. HEAVY EQUIPMENT SHALL NOT CROSS OVER SPILLWAY WITHOUT PRECAUTIONS TAKEN TO PROTECT TRM LINING.

4. DISPLACED LINER WITHIN THE SPILLWAY AND/OR OUTLET CHANNEL SHALL BE REPLACED IMMEDIATELY.

5. LINE ENTIRE LENGTH & WIDTH OF SPILLWAY W SPECIFIED EROSION CONTROL MATTING & EXTEND TO TOE OF SLOPE OF OUTSIDE EMBANKMENT



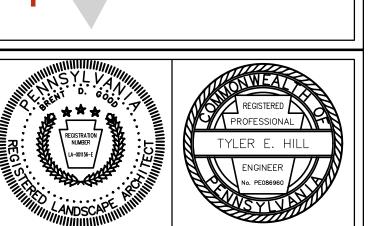
- BERM MATERIAL & COMPACTION SHALL BE IN ACCORDANCE WITH PADOT SPECIFICATION PUBLIC ACTION 408, SECTION
- 2. BASIN DISCHARGE PIPE TO BE PROVIDED WITH WATER TIGHT JOINTS. ALL CONNECTIONS TO STORM STRUCTURES SHALL BE WATER TIGHT. BACKFILL TRENCH WITH COMPACTED ONSITE MATERIAL.
- 3. STRIP AND REMOVE ALL TOPSOIL AND ORGANIC MATTER FROM THE SUBGRADE OF THE BASIN EMBANKMENT AREA.
- 4. A GEOTECHNICAL PROFESSIONAL SHALL APPROVE THE EMBANKMENT SUBGRADE PRIOR TO FILL PLACEMENT.

CLAY CORE / KEY TRENCH DETAIL AND SCHEDULE

2 3 4 5			- - -
	STOUP, 112 ENGINEERS + LANDSCAPE ARCH	elagro	_

DATE: BY:

REVISIONS PER:



PRELIMINARY PLAN
SUBJECT:
STORMWATER DETAILS
FOR
WESTMOUNT
MOUNT JOY TOWNSHIP, LANCASTER COUNTY, PENNSYL\

VISTABLOCK, LLC 150 FARMINGTON LANE

LANCASTER, PA 17601 717-682-8775							
BDG	DATE:	OCTOBER 7, 2					

MANAGER: BDG PROJECT NO. 1212-004 DESIGNER: BLM | SCALE: DRAWN BY AS NOTED

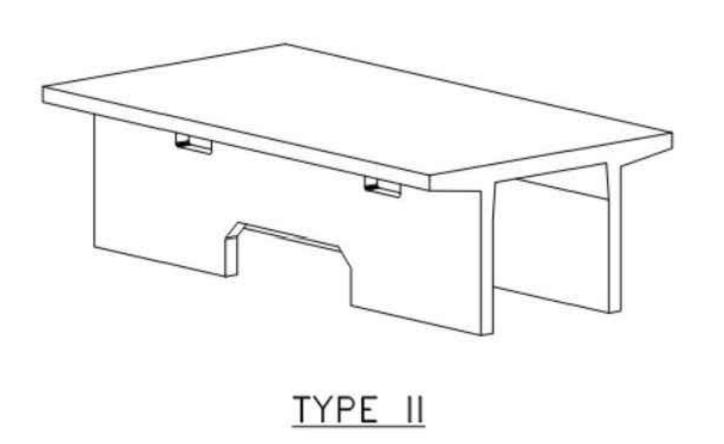
DRAWING NO.

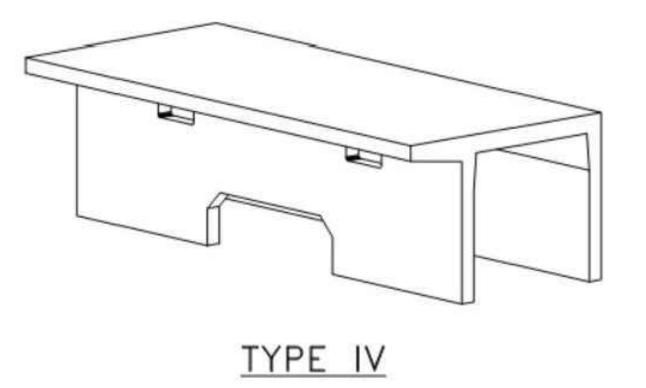
### SITE SPECIFIC DESIGN CRITERIA

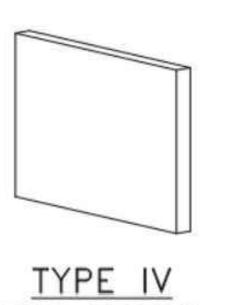
- I. STORMTRAP UNITS SHALL BE MANUFACTURED AND INSTALLED ACCORDING TO SHOP DRAWINGS APPROVED BY THE INSTALLING CONTRACTOR AND ENGINEER OF RECORD. THE SHOP DRAWINGS SHALL INDICATE SIZE AND LOCATION OF ROOF OPENINGS AND INLET/ OUTLET PIPE TYPES, SIZES, INVERT ELEVATIONS AND SIZE OF OPENINGS.
- 2. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PREPARED BY STORMTRAP TO THE ENGINEER OF RECORD AND MUNICIPALITY FOR APPROVAL PRIOR TO CONSTRUCTION. THE STORMTRAP DETAILS PROVIDED IN THIS PLAN SET ARE PROVIDED AS A BASIS OF DESIGN AND SHALL NOT BE USED FOR CONSTRUCTION.
- FOR CONSTRUCTIN. 3. COVER RANGE: MIN. 1.5' MAX. 5.5' CONSULT STORMTRAP FOR ADDITIONAL COVER OPTIONS.
- 4. ALL DIMENSIONS AND SOIL CONDITIONS, INCLUDING BUT NOT LIMITED TO GROUNDWATER AND SOIL BEARING CAPACITY ARE REQUIRED TO BE VERIFIED IN THE FIELD BY OTHERS PRIOR TO STORMTRAP INSTALLATION.
- 5. FOR STRUCTURAL CALCULATIONS THE GROUND WATER TABLE IS ASSUMED TO BE BELOW INVERT OF SYSTEM. IF WATER TABLE IS DIFFERENT THAN ASSUMED, CONTACT STORMTRAP.
- 6. SYSTEM DESIGN INTENT IS TO CONTAIN WATER AND / OR PREVENT GROUNDWATER MIGRATION INTO THE SYSTEM AND WILL NOT BE SUBJECT TO LEAKAGE TESTING. A THIRD PARTY WATER PROOFING SOLUTION IS REQUIRED FOR SEALING OF SYSTEM / MODULE JOINTS AND SEAMS, SOLUTION TO BE PROVIDED AND INSTALLED BY CONTRACTOR IN ACCORDANCE WITH THIRD PARTY WATER-PROOFING SUPPLIER'S PRODUCT SPECIFICATIONS.

	STORMTRAP DESIGN INFORMATION SCHEDULE											
BMP NO.	STORA STONE BASE STORAGE	SYSTEM STORAGE	(CF)  TOTAL  STORAGE	SUBGRADE ELEVATION (FT)	STONE BASE DEPTH	UNDERDRAIN INVERT ELEV. (Ft)	SYSTEM INVERT ELEV. (FT)	SINGLE TRAP HEIGHT (Ft)	INSIDE HEIGHT ELEV. (FT)	TOP OF SYSTEM (FT)	MIN. COVER ELEV. (FT)	MAX. COVER ELEV. (FT)
2	1,996	17,764	19,760	401.00	1'-0"	401.25	402.00	4'-0"	406.00	406.50	±408.50	±411.00
4	2,57 <i>8</i>	22,941	25,519	395.50	1'-0"	345.75	396.50	4'-0"	400.50	401.00	±403.75	±406.50
6	2,287	20 <i>3</i> 53	22,640	396.00	1'-0"	396.25	397.00	4'-0"	401.00	401.50	±402.50	±405.00
8	2,578	22,941	25,519	393.50	1'-0"	393.75	394.50	4'-0"	398.50	399.00	±402.75	±406.00
10	2,287	2 <i>0,3</i> 53	22,640	393.00	I'- <b>0"</b>	393.25	394.00	4'-0"	398.00	398.50	±400.00	±405.00
12	2,287	2 <i>0,</i> 353	22,640	393.00	1'-0"	393.25	394.00	4'-0"	398.00	398.50	±400.00	±403.00
14	2,012	8,104	10,116	364.00	l'-0"	364.25	365.00	4'-0"	369.00	369.50	±371.00	±374.00
17	1601	14,247	15,848	370.50	I'- <b>0"</b>	310.75	371.50	4'-0"	375.50	376	±377.75	±381.25
19	3,108	27,661	30,769	365.50	I'-O"	365.75	366.50	4'-0"	370.50	371.00	±372.50	±377.50
22	2,354	20,954	23,308	381.75	l'-0"	382.00	382.75	4'-0"	386.75	387.25	±388.50	±392.00
25	1,647	14,660	16,307	393.00	l'-0"	393.25	394.00	4'-0"	398.00	398.50	±400.00	±404.00

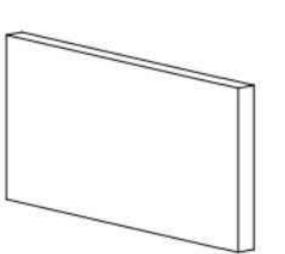
TYPICAL STORM TRAP 4'-0" SINGLETRAP CROSS SECTION DETAIL AND DESIGN SCHEDULE (REFER TO MANUFACTURER'S SHOP DRAWINGS FOR CONSTRUCTION)







END PANEL



TYPE II END PANEL

NOTES

I. OPENING LOCATIONS AND SHAPES MAY VARY.

2. SP - INDICATES A MODULE WITH MODIFICATIONS

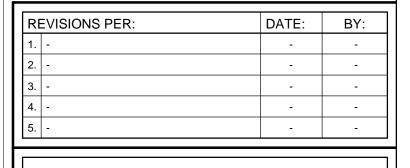
3. P - INDICATES A MODULE WITH A PANEL ATTACHMENT

4. POCKET WINDOW OPENINGS ARE OPTIONAL.

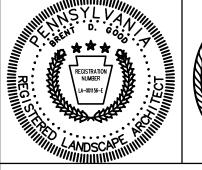
5. REFER TO MANUFACTURER SHOP DRAWINGS FOR INSTALLATION INFORMATION/SPECIFICATIONS

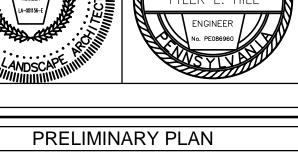
B STORM TRAP 4'-O" SINGLETRAP MODULE TYPES

NO SCALE







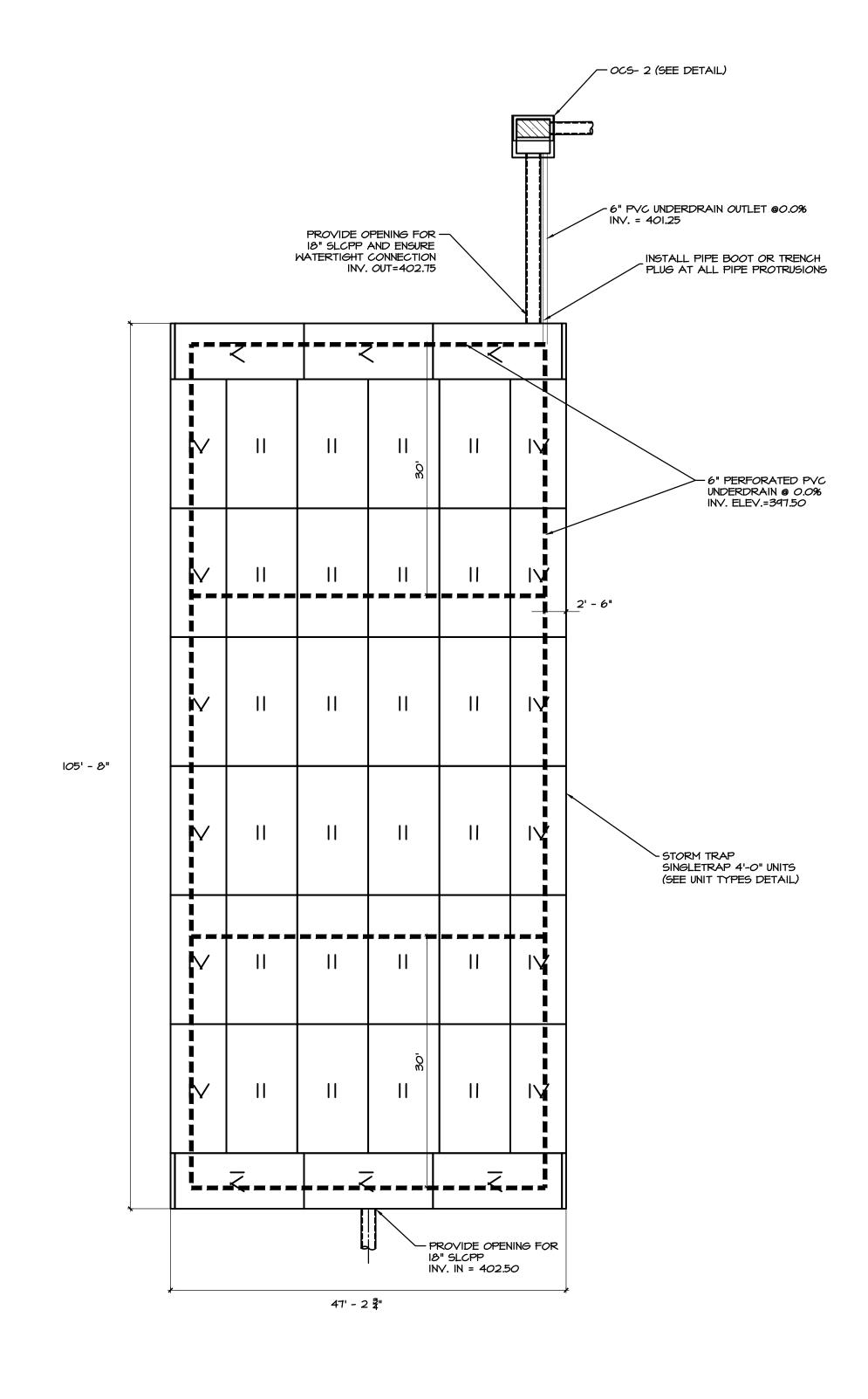


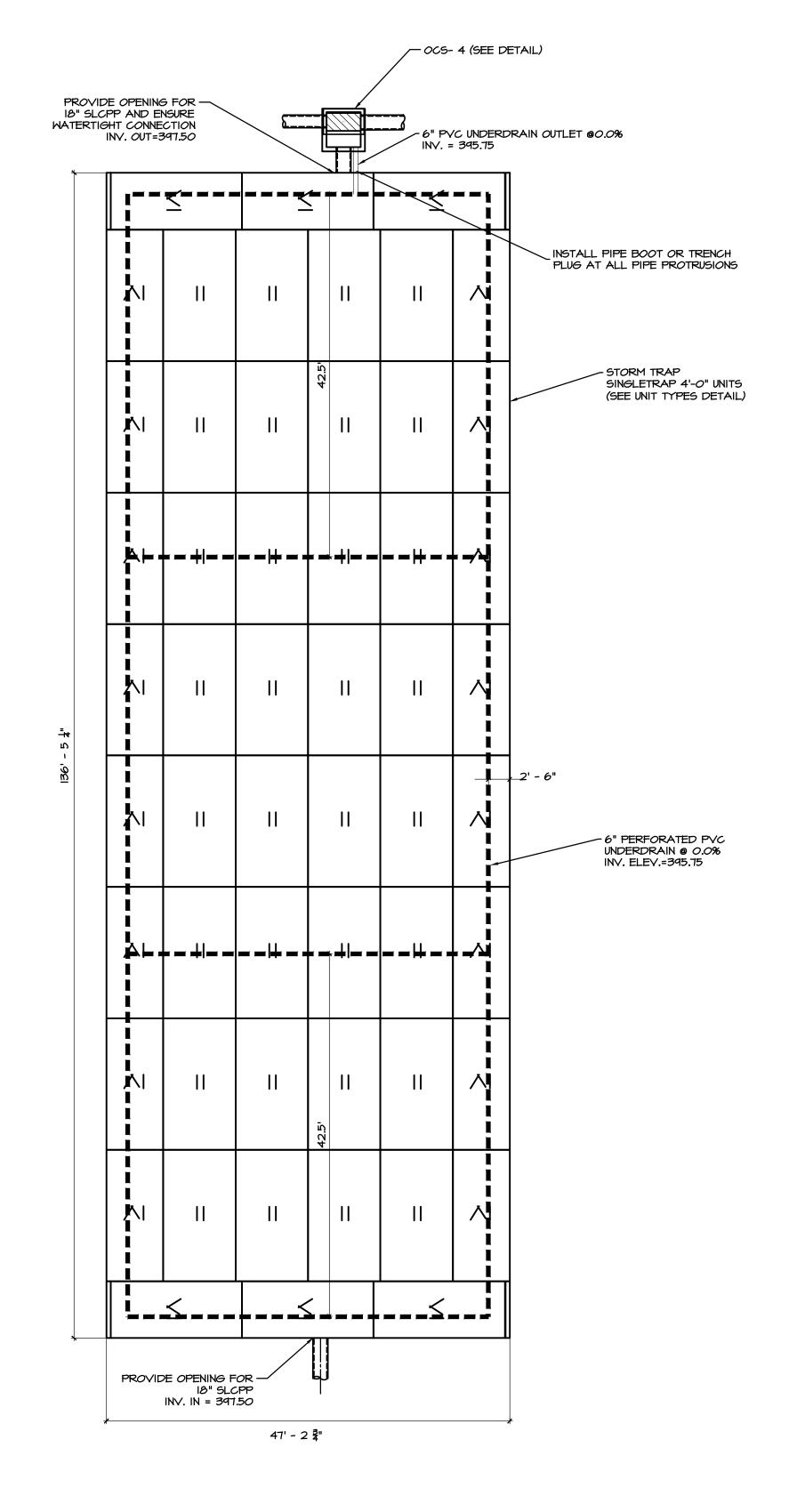
STORMWATER DETAILS WESTMOUNT MOUNT JOY TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA

CLIENT: VISTABLOCK, LLC 150 FARMINGTON LANE LANCASTER, PA 17601 717-682-8775

MANAGER: BDG DATE: OCTOBER 7, 2024 BDG PROJECT NO. 1212-004 BLM SCALE:

DRAWING NO.



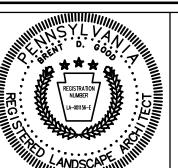


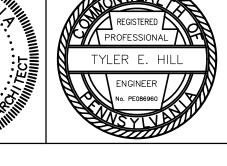
BMP 2 LAYOUT DETAIL

BMP 4 LAYOUT DETAIL

REVISIONS PER:	DATE:	BY
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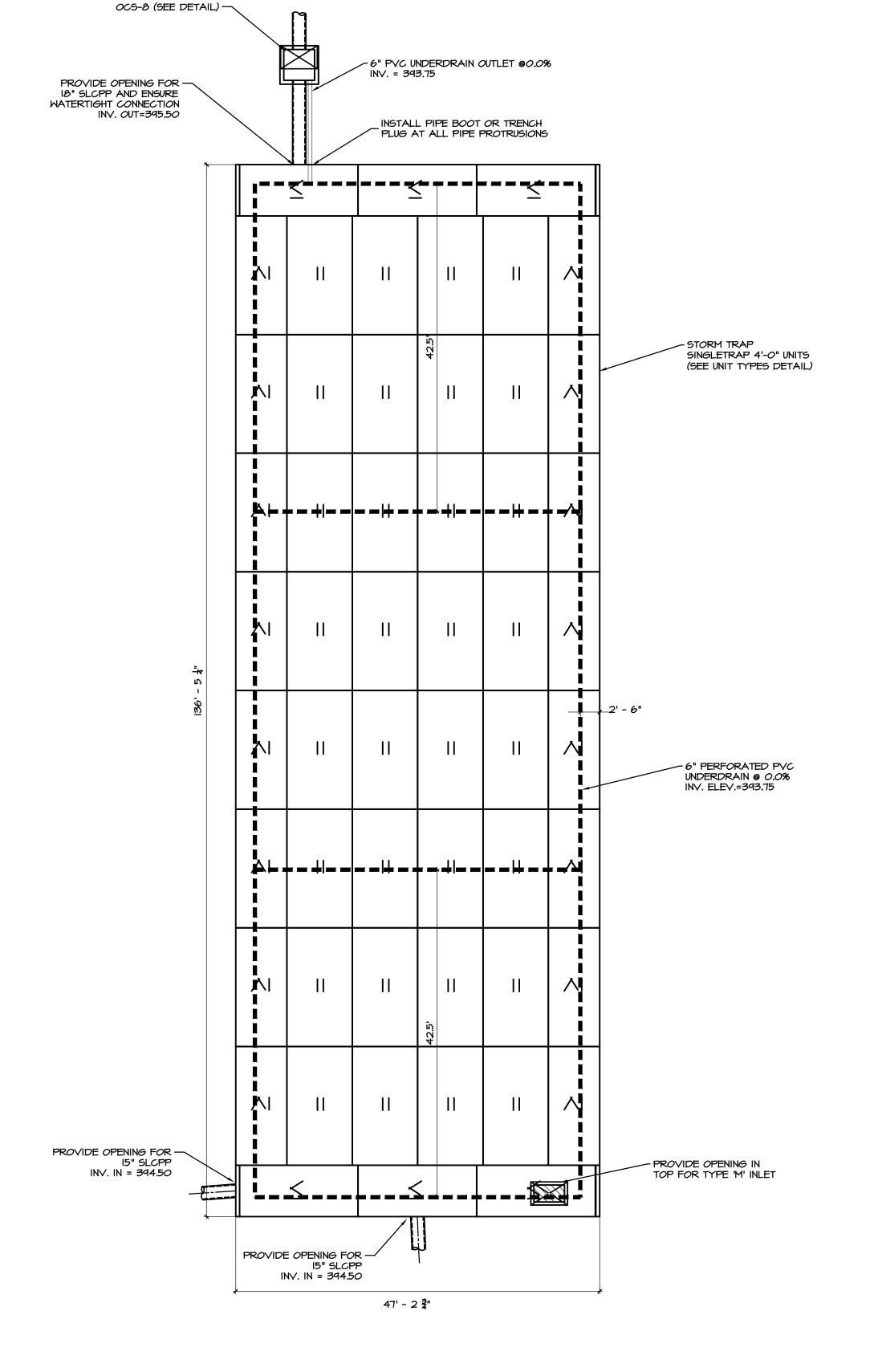


PRELIMINARY PLAN SUBJECT:
STORMWATER DETAILS WESTMOUNT MOUNT JOY TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA

CLIENT:
VISTABLOCK, LLC
150 FARMINGTON LANE LANCASTER, PA 17601 717-682-8775

l	MANAGER:	BDG	DATE: OCTO	OBER 7, 2024
	DESIGNER:	BDG	PROJECT NO	. 1212-004
	DRAWN BY:	BLM	SCALE:	AS NOTED

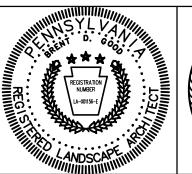




BMP & LAYOUT DETAIL

REVISIONS PER:	DATE:	BY:
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2	-	-
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4	-	-
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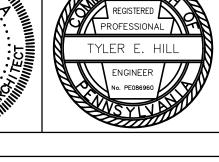




MANAGER:

DESIGNER:

DRAWN BY:

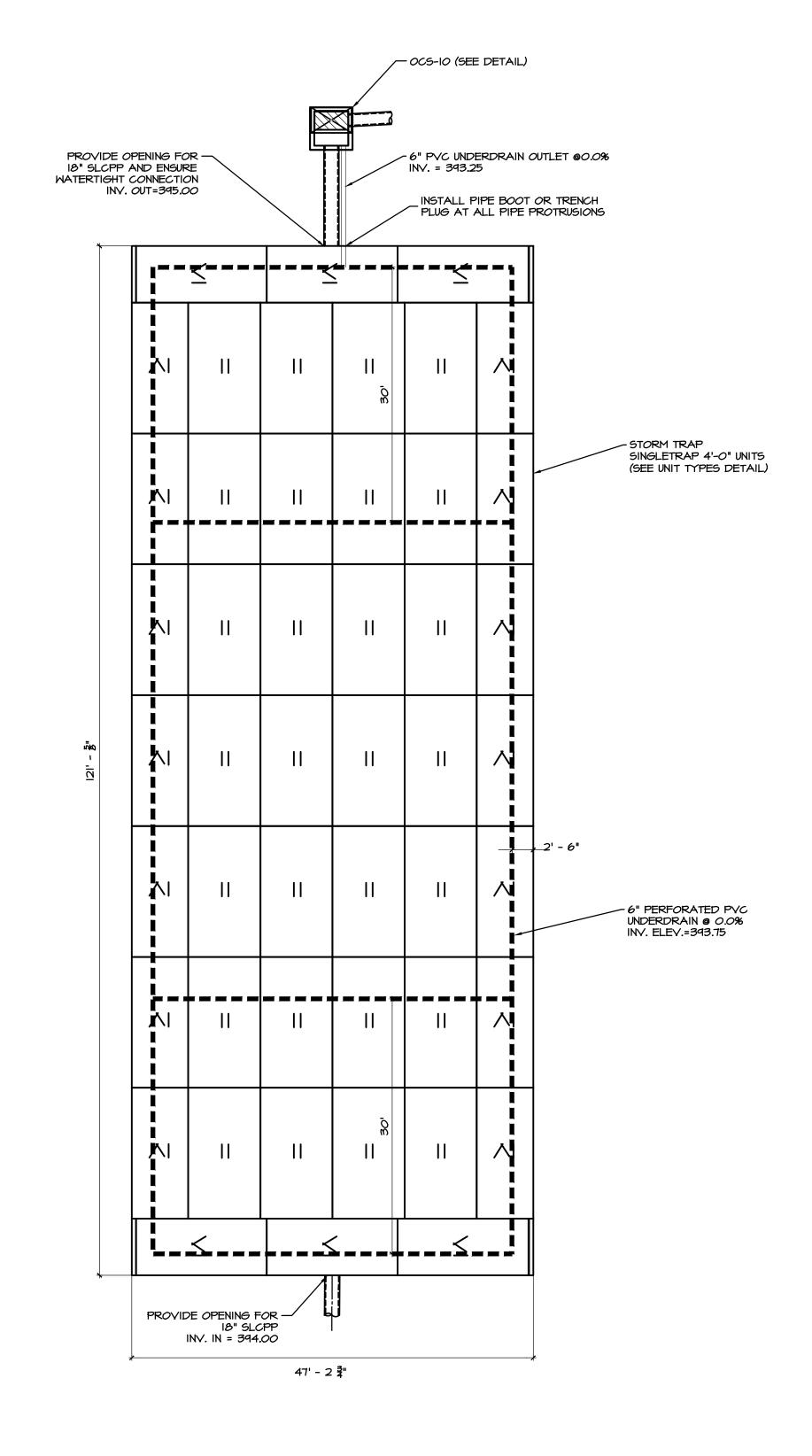


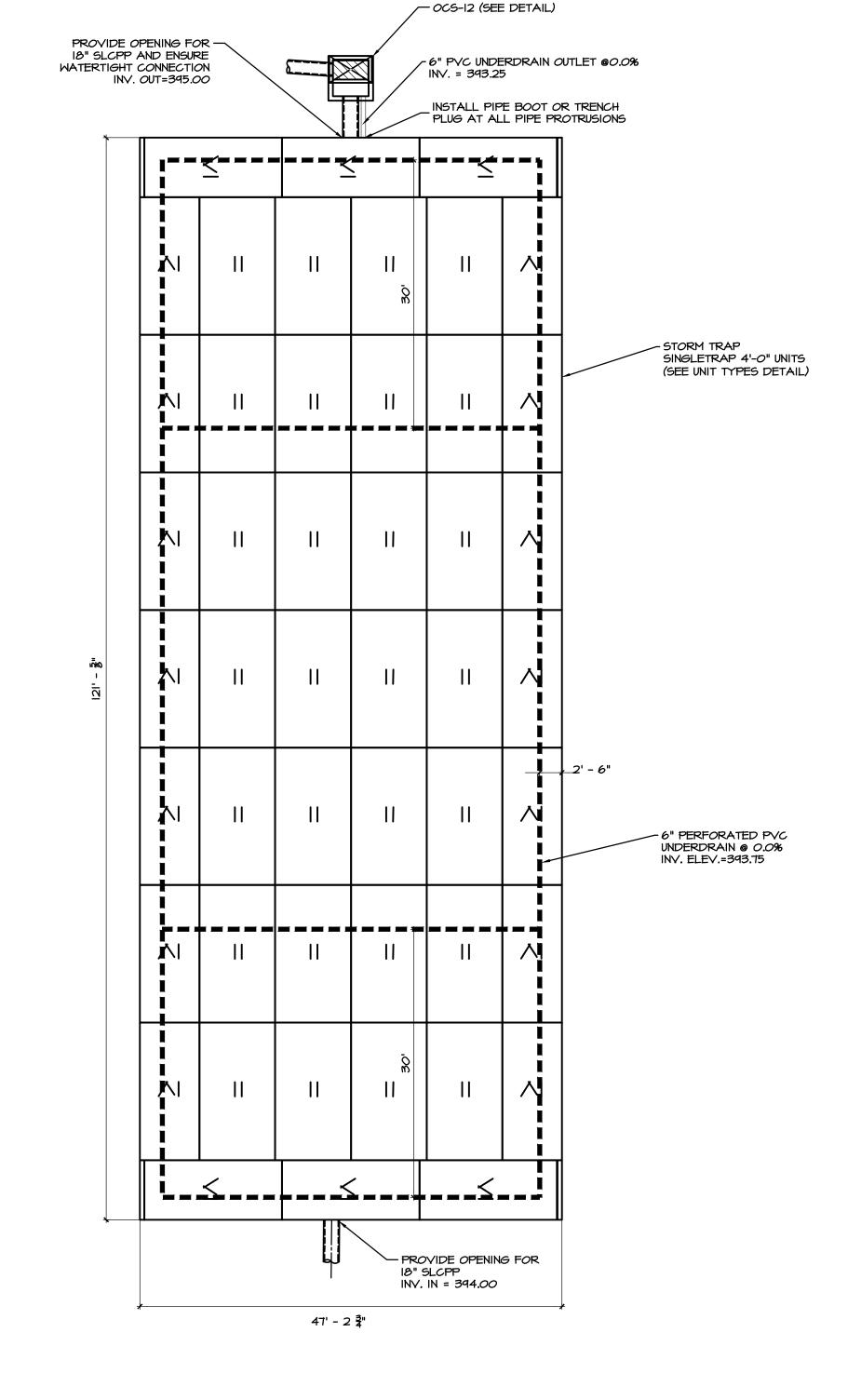
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STORMWATER DETAILS WESTMOUNT MOUNT JOY TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA CLIENT:
VISTABLOCK, LLC
150 FARMINGTON LANE

LANCASTER, PA 17601 717-682-8775							
BDG	DATE: OCTOB	BER 7, 20					
BDG	PROJECT NO.	1212-0					

AS NOTED

BLM SCALE:





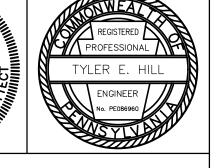
BMP IO LAYOUT DETAIL

BMP 12 LAYOUT DETAIL

REVISIONS PER: DATE: BY:





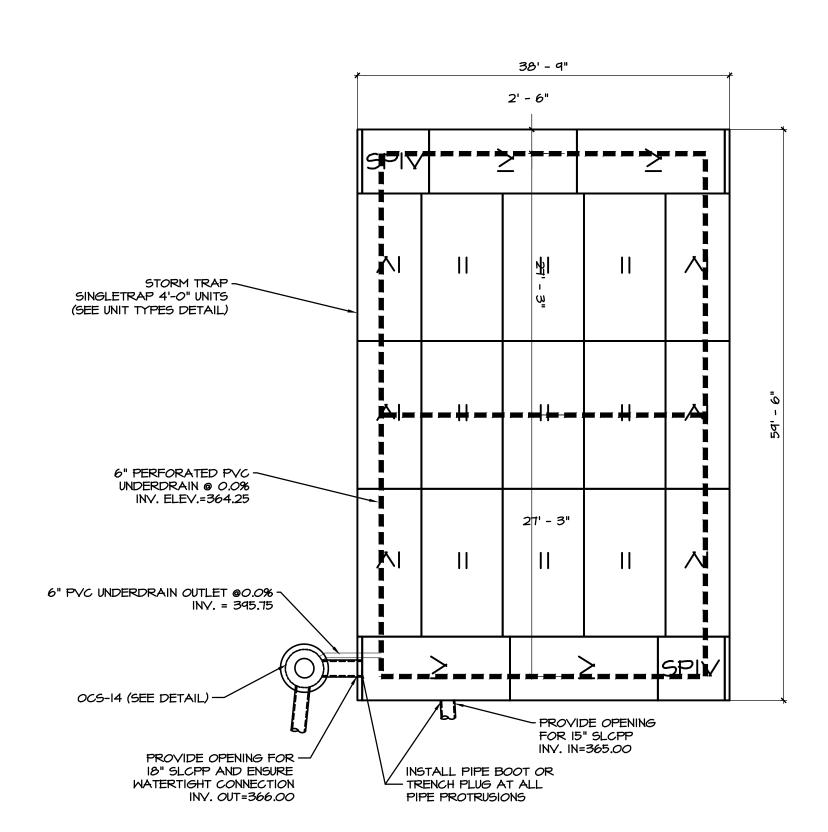


PRELIMINARY PLAN SUBJECT:
STORMWATER DETAILS WESTMOUNT

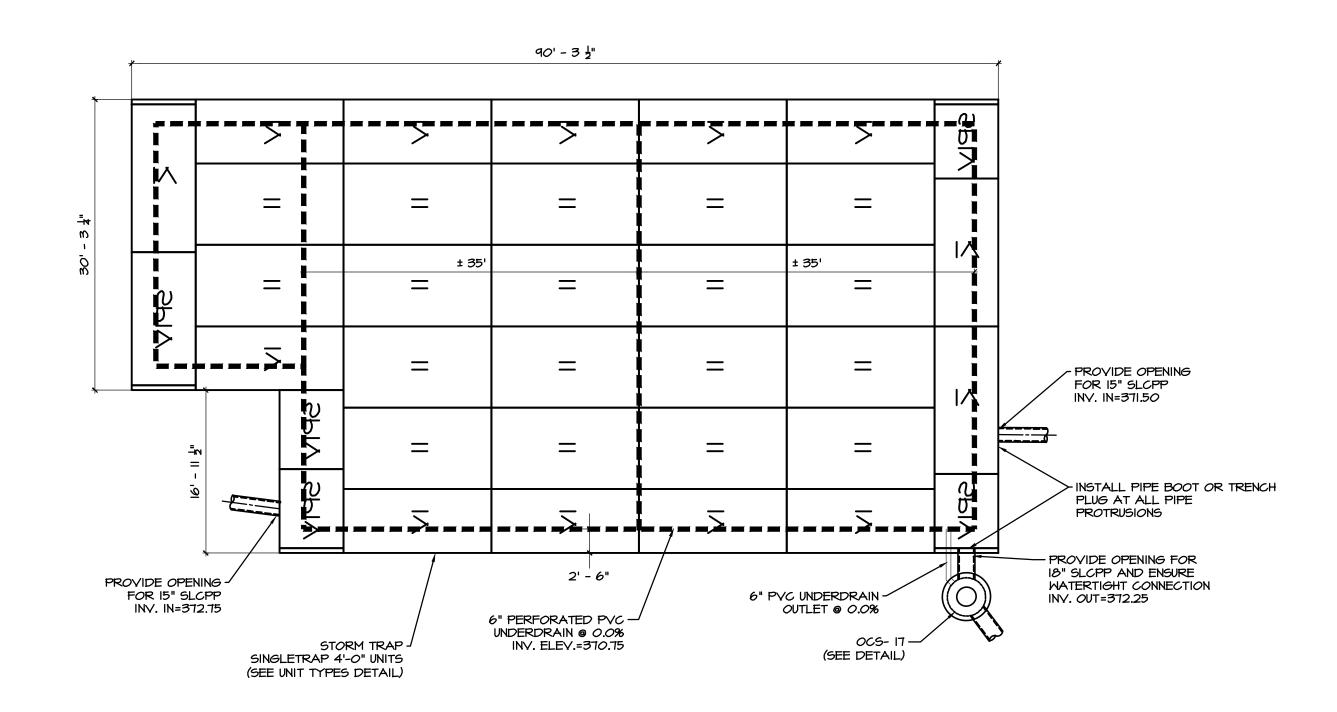
MOUNT JOY TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA CLIENT:
VISTABLOCK, LLC
150 FARMINGTON LANE LANCASTER, PA 17601

717-682-8775

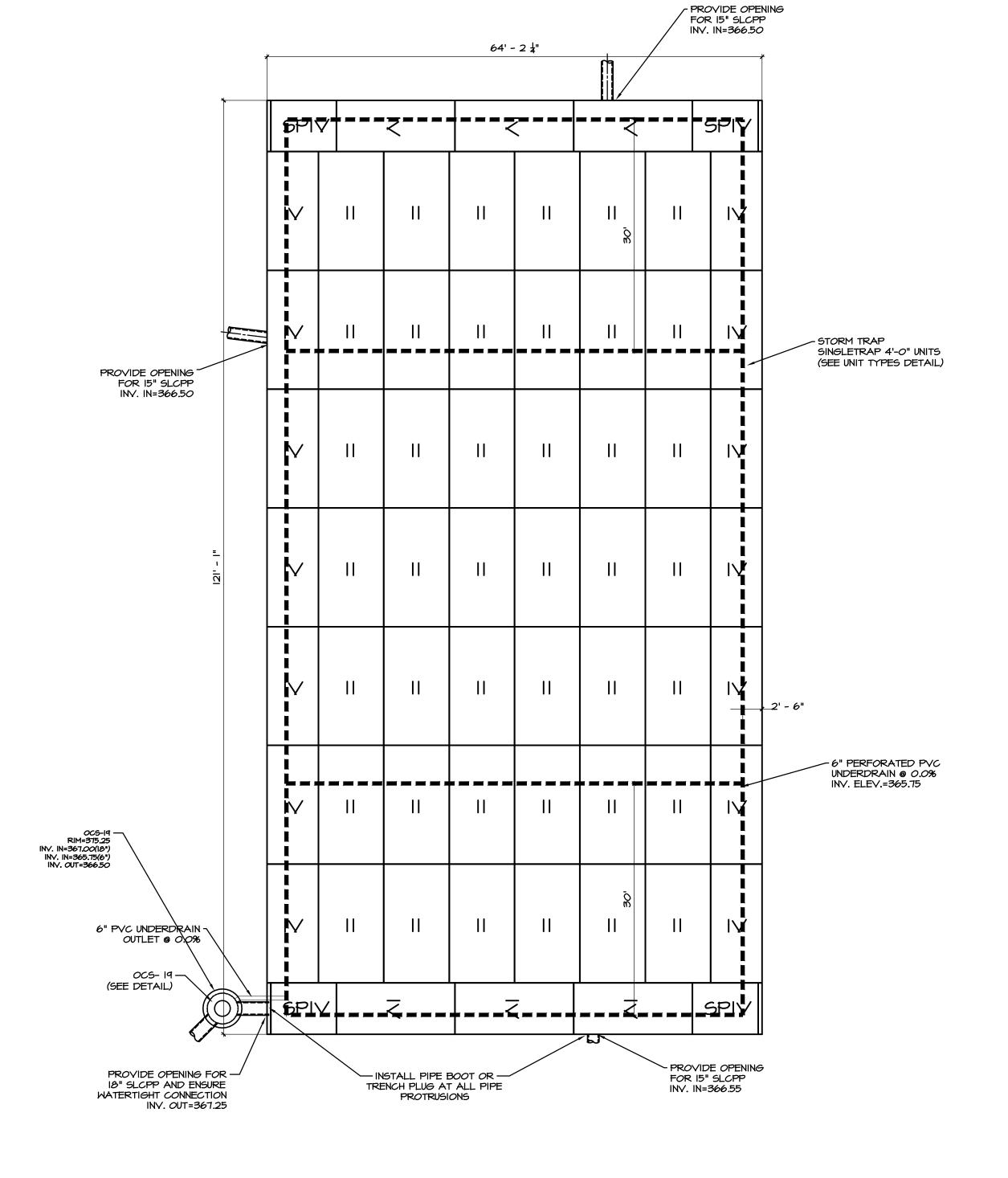
BDG DATE: OCTOBER 7, 2024 MANAGER: BDG PROJECT NO. 1212-004 BLM SCALE: AS NOTED DRAWN BY:



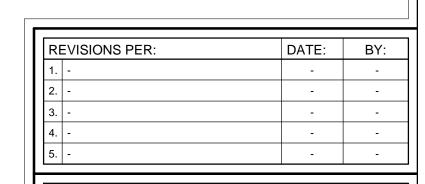
BMP 14 LAYOUT DETAIL



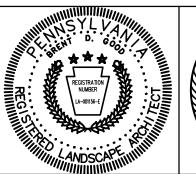
BMP 17 LAYOUT DETAIL

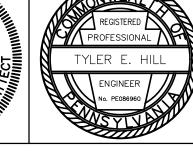












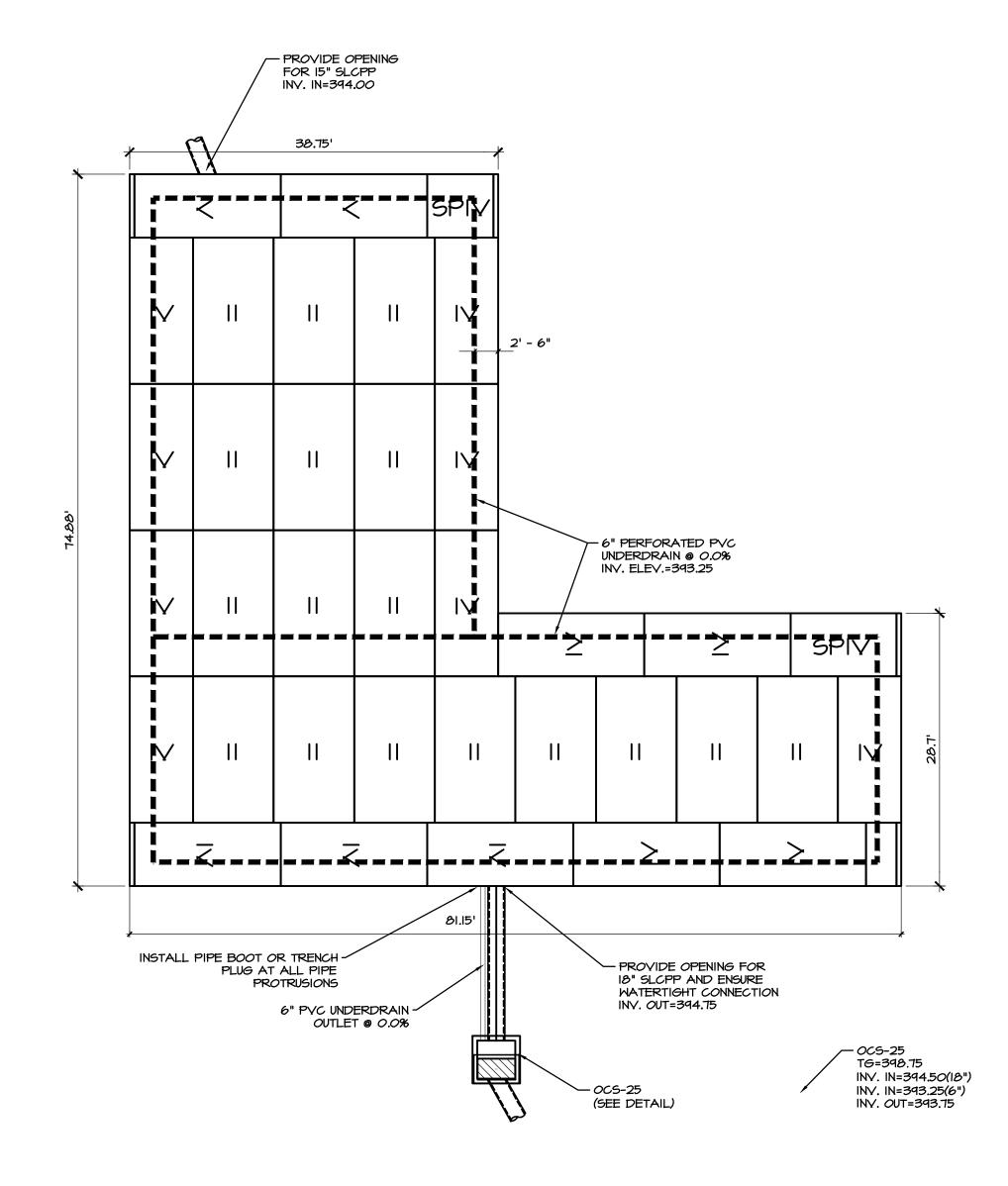
PRELIMINARY PLAN STORMWATER DETAILS WESTMOUNT MOUNT JOY TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA

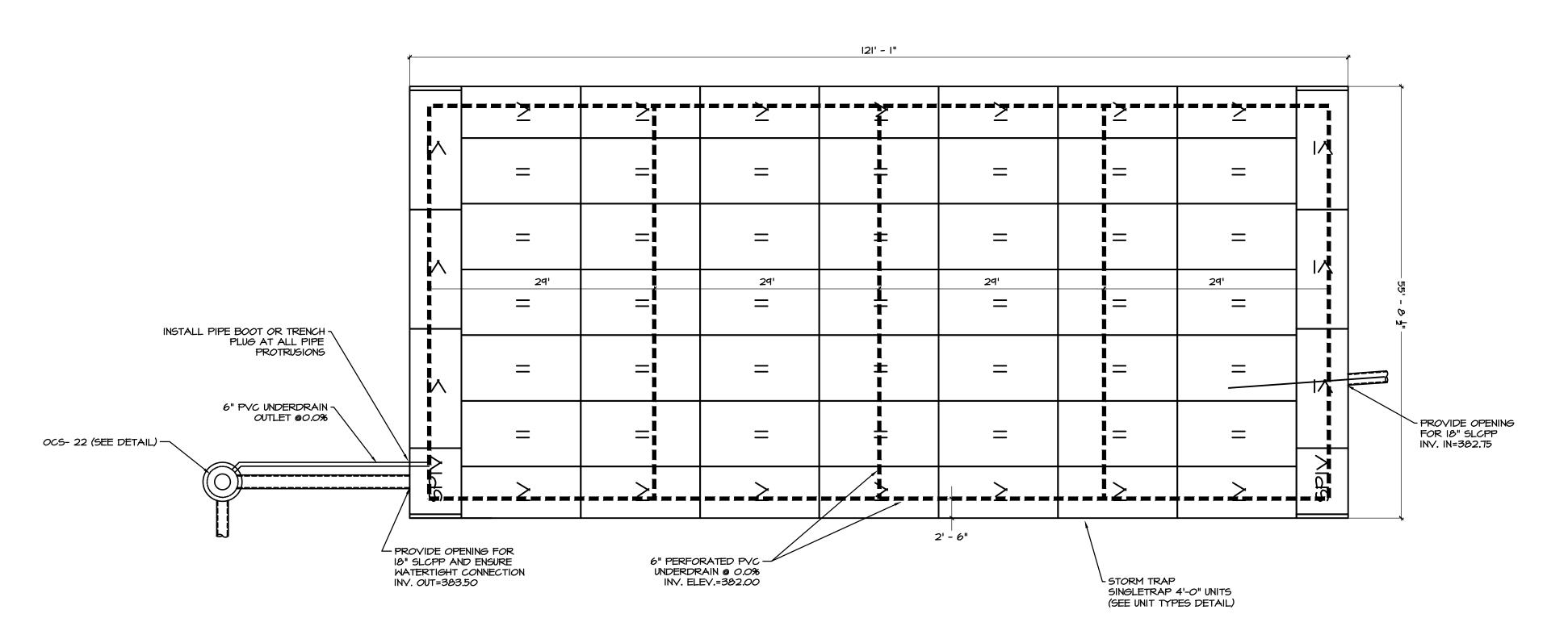
CLIENT: VISTABLOCK, LLC 150 FARMINGTON LANE LANCASTER, PA 17601

717-682-8775

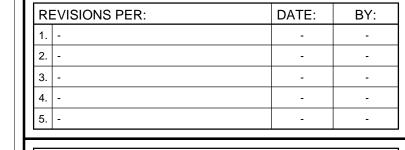
MANAGER:	BDG	DATE: OCTO	BER 7, 2024
DESIGNER:	BDG	PROJECT NO.	1212-004
DRAWN BY:	BLM	SCALE:	AS NOTED

DRAWING NO.

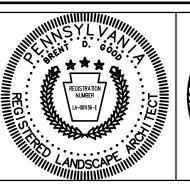


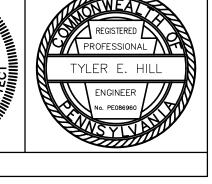


BMP 22 LAYOUT DETAIL









SUBJECT:
STORMWATER DETAILS
FOR
WESTMOUNT
IT JOY TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA
CLIENT:

PRELIMINARY PLAN

Y TOWNSHIP, LANCASTER COUNTY, PENN CLIENT: VISTABLOCK, LLC 150 FARMINGTON LANE LANCASTER, PA 17601

717-682-8775

l	MANAGER:	BDG	DATE: OCTOBER 7, 2024
l	DESIGNER:	BDG	PROJECT NO. 1212-004
l	DRAWN BY:	BLM	SCALE: AS NOTED

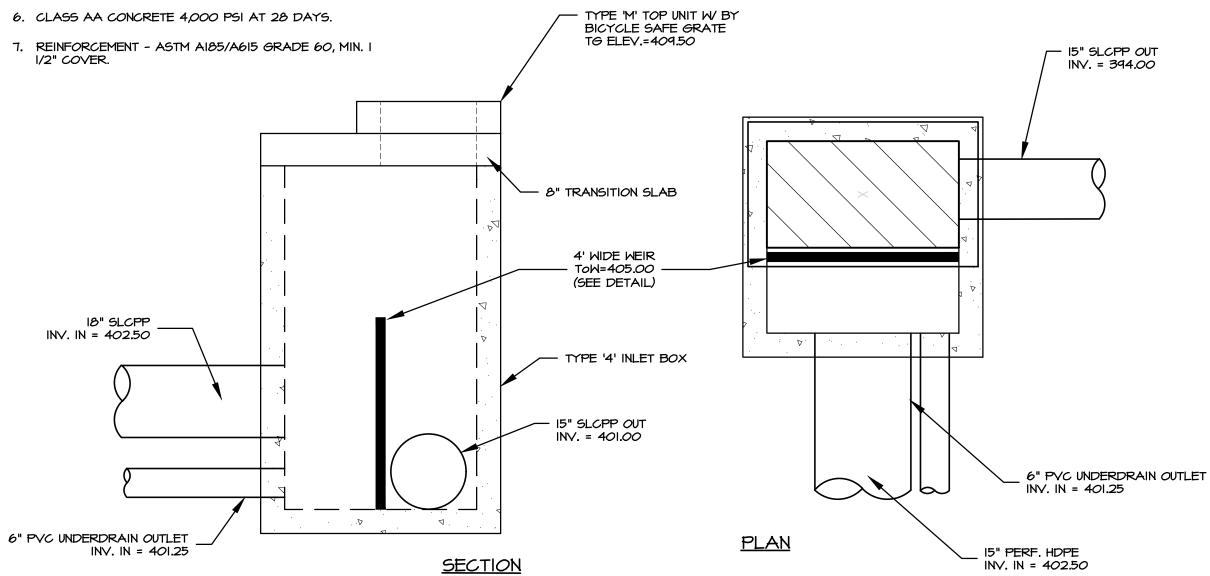
71 of 86

BMP 25 LAYOUT DETAIL

3. STRUCTURES SHALL BE PRE-CAST.

4. DRAINAGE STRUCTURES THAT ARE FIVE FOOT OR GREATER IN DEPTH SHALL HAVE POLYPROPYLENE ENCASED MANHOLE STEPS INSTALLED ARE PER CURRENT STANDARDS.

5. MATERIAL AND CONSTRUCTION SHALL COMPLY WITH PENN D.O.T. PUB. 408.



### NOTES:

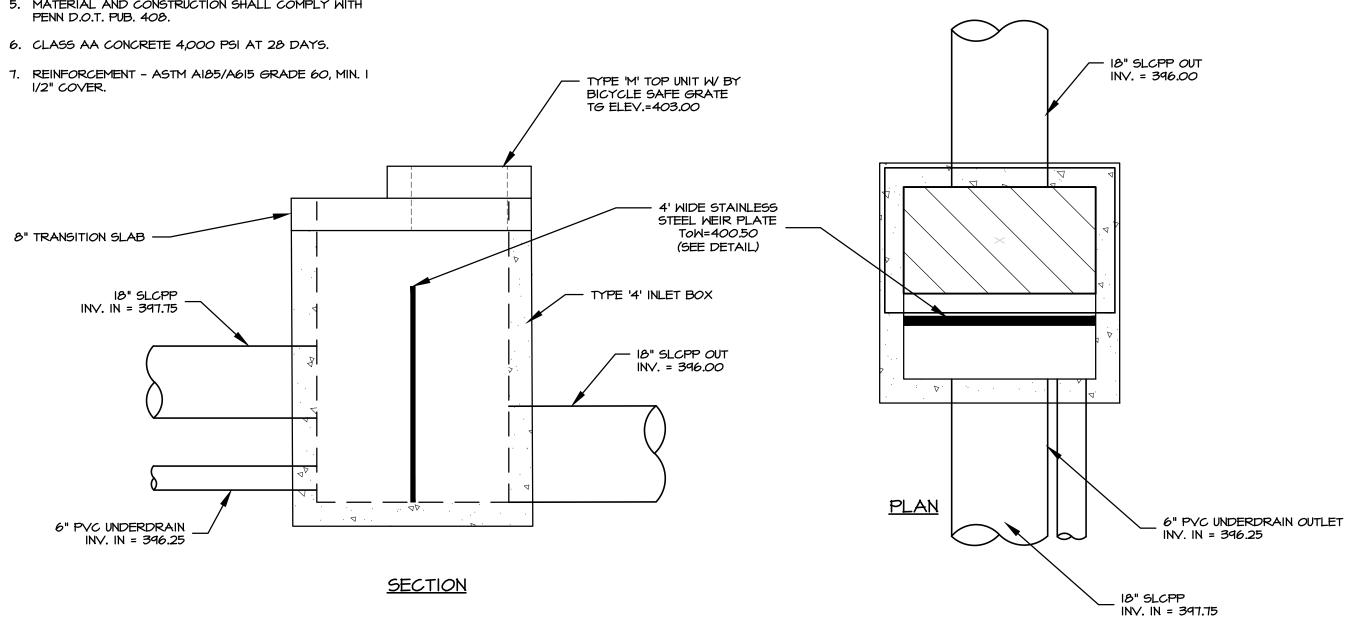
I. ALL CONNECTIONS TO OUTLET STRUCTURE MUST BE

2. CONTRACTOR SHALL VERIFY BOX SIZING BASED ON PIPE SIZES & ALIGNMENT PRIOR TO ORDERING

3. STRUCTURES SHALL BE PRE-CAST.

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NOTES:

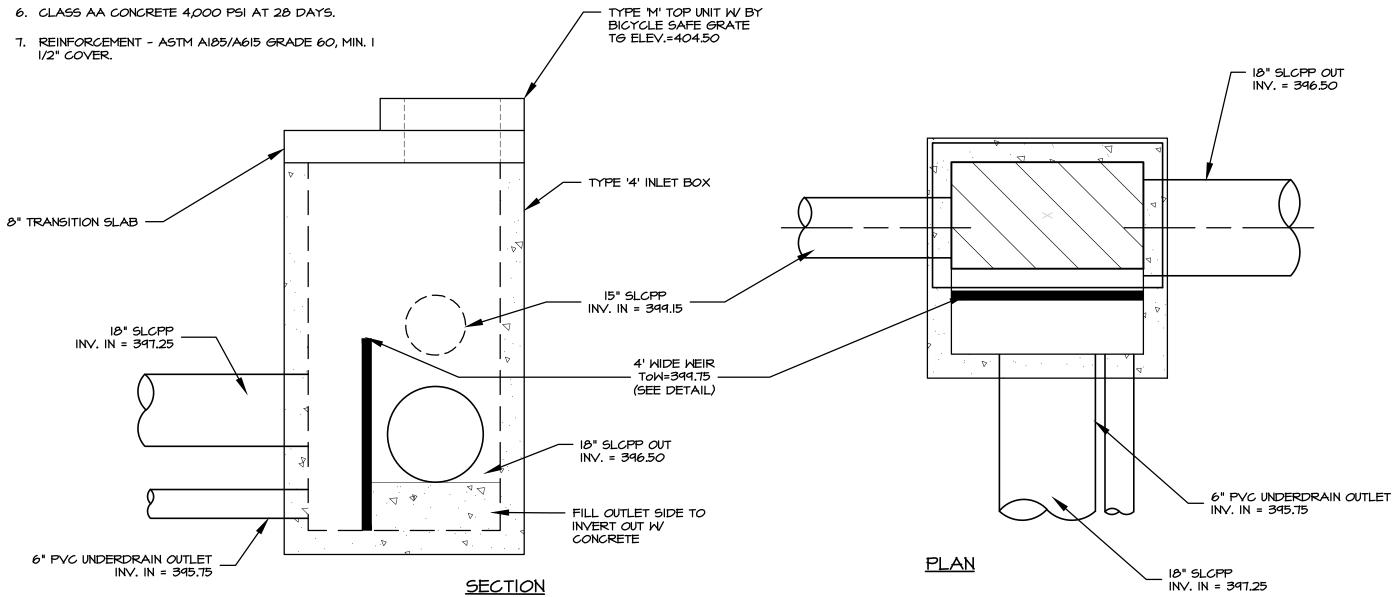
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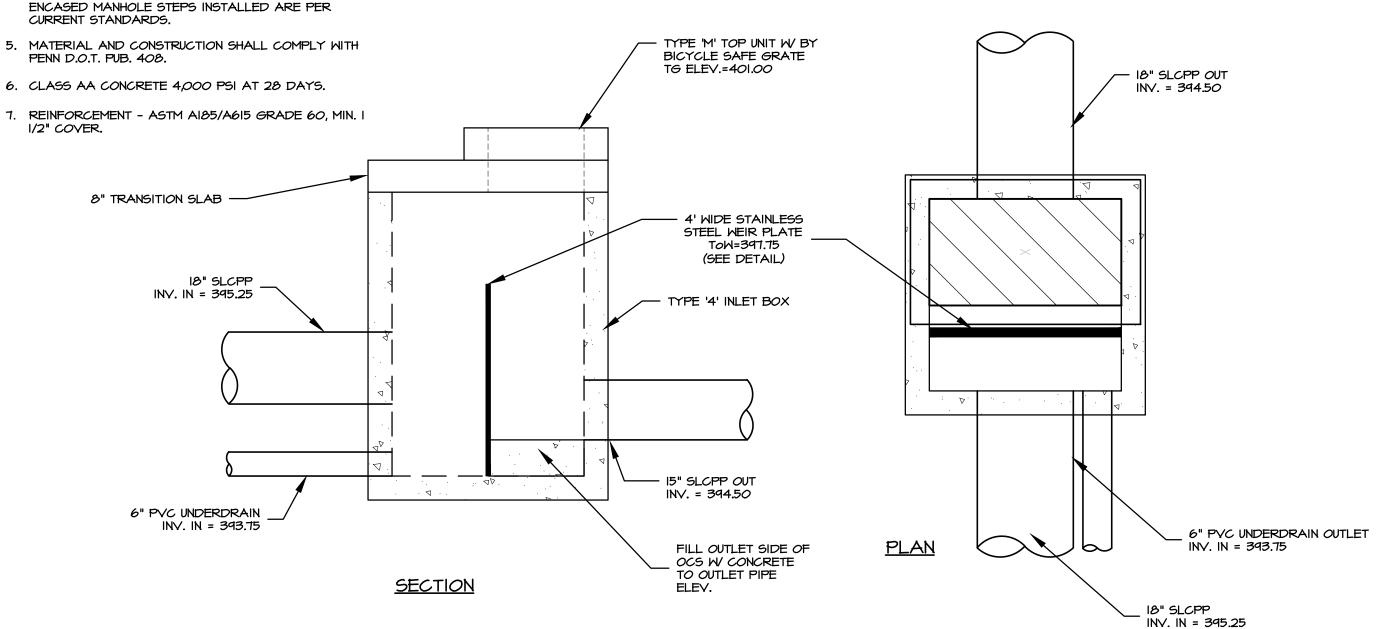
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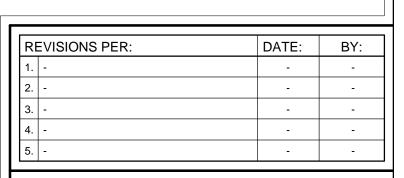
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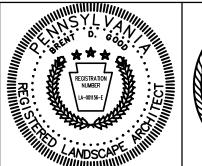
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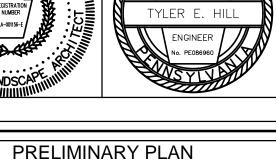
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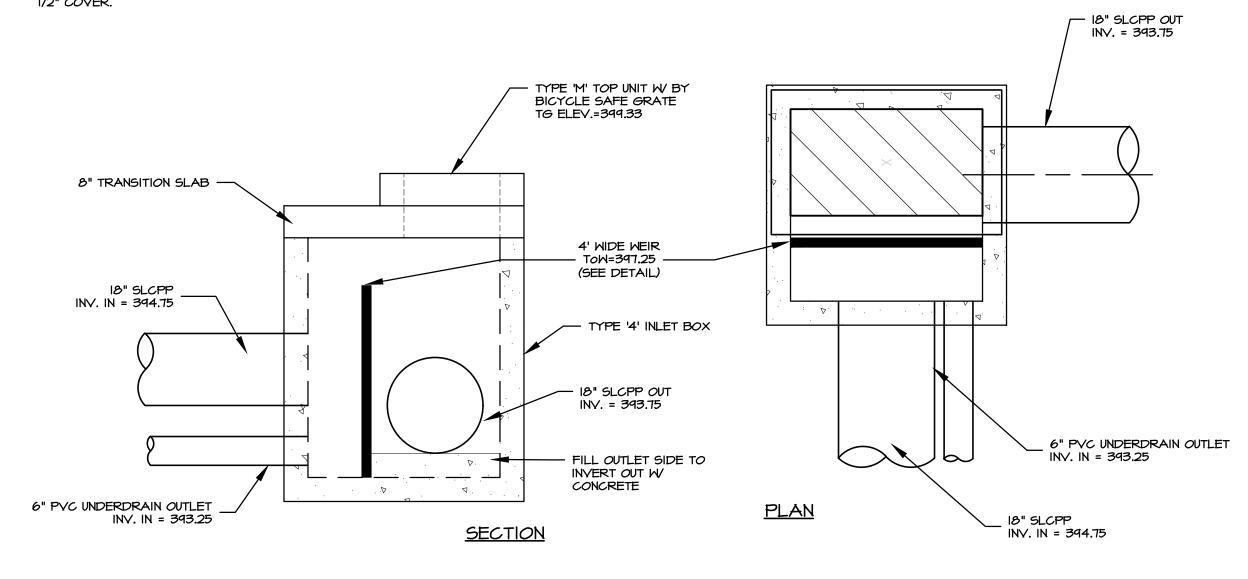
STORMWATER DETAILS WESTMOUNT MOUNT JOY TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA VISTABLOCK, LLC 150 FARMINGTON LANE

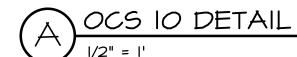
> LANCASTER, PA 17601 717-682-8775 BDG DATE: OCTOBER 7, 2024

MANAGER: BDG PROJECT NO. 1212-004 DESIGNER: BLM | SCALE: DRAWN BY: AS NOTED

DRAWING NO.

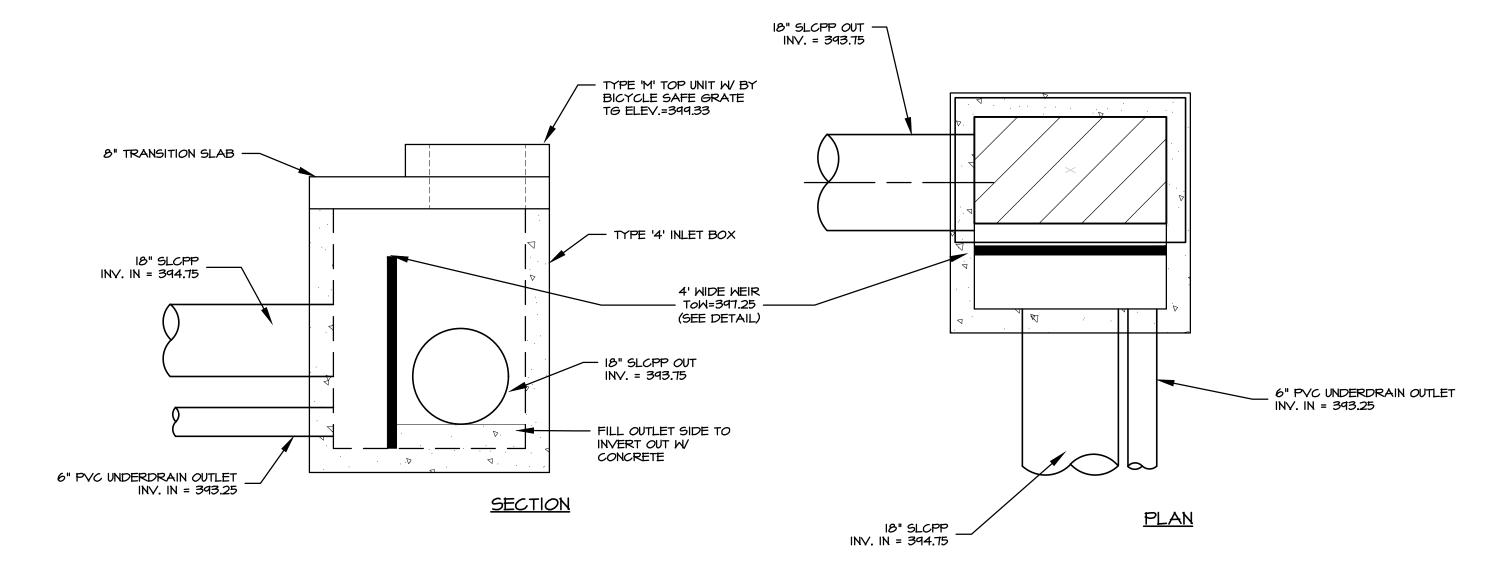
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- DRAINAGE STRUCTURES THAT ARE FIVE FOOT OR GREATER IN DEPTH SHALL HAVE POLYPROPYLENE ENCASED MANHOLE STEPS INSTALLED ARE PER CURRENT STANDARDS.
- MATERIAL AND CONSTRUCTION SHALL COMPLY WITH PENN D.O.T. PUB. 408.
- 6. CLASS AA CONCRETE 4,000 PSI AT 28 DAYS.
- REINFORCEMENT ASTM AI85/A615 GRADE 60, MIN. I I/2" COVER.

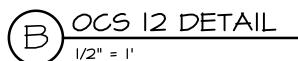


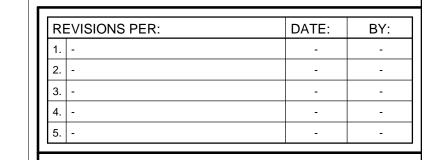


### NOTES:

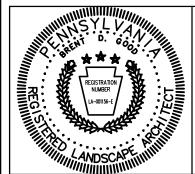
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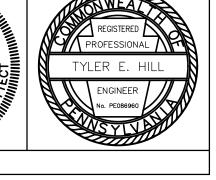












SUBJECT:
STORMWATER DETAILS

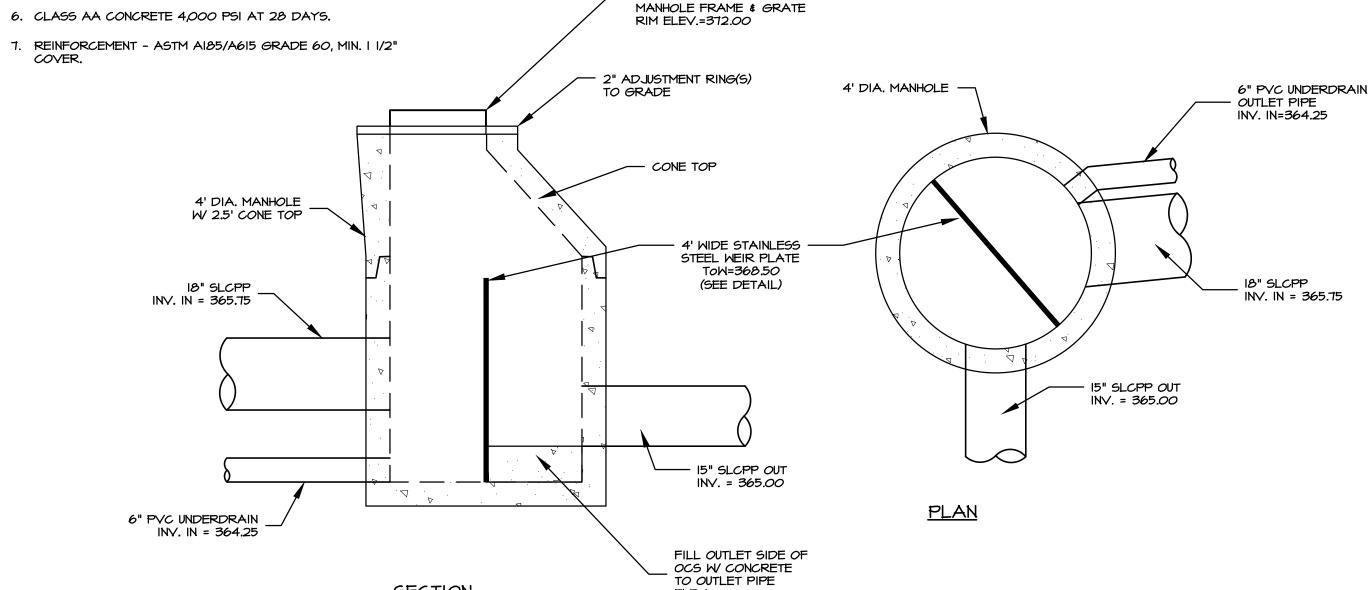
FOR
WESTMOUNT
MOUNT JOY TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA
CLIENT:
VISTABLOCK, LLC

PRELIMINARY PLAN

150 FARMINGTON LANE
LANCASTER, PA 17601
717-682-8775

l	MANAGER:	BDG	DATE: OCTO	DBER 7, 2024
l	DESIGNER:	BDG	PROJECT NO.	1212-004
l	DRAWN BY:	BLM	SCALE:	AS NOTED

- I. ALL CONNECTIONS TO OUTLET STRUCTURE MUST BE
- 2. CONTRACTOR SHALL VERIFY BOX SIZING BASED ON PIPE SIZES & ALIGNMENT PRIOR TO ORDERING STRUCTURES.
- 3. STRUCTURES SHALL BE PRE-CAST.
- 4. DRAINAGE STRUCTURES THAT ARE FIVE FOOT OR GREATER IN DEPTH SHALL HAVE POLYPROPYLENE ENCASED MANHOLE STEPS INSTALLED ARE PER CURRENT
- 5. MATERIAL AND CONSTRUCTION SHALL COMPLY WITH PENN D.O.T. PUB. 408.



ELEV.

- 24" DIAMETER

OCS 14 DETAIL

- ALL CONNECTIONS TO OUTLET STRUCTURE MUST BE WATERTIGHT.
- 2. CONTRACTOR SHALL VERIFY BOX SIZING BASED ON PIPE SIZES & ALIGNMENT PRIOR TO ORDERING STRUCTURES.

SECTION

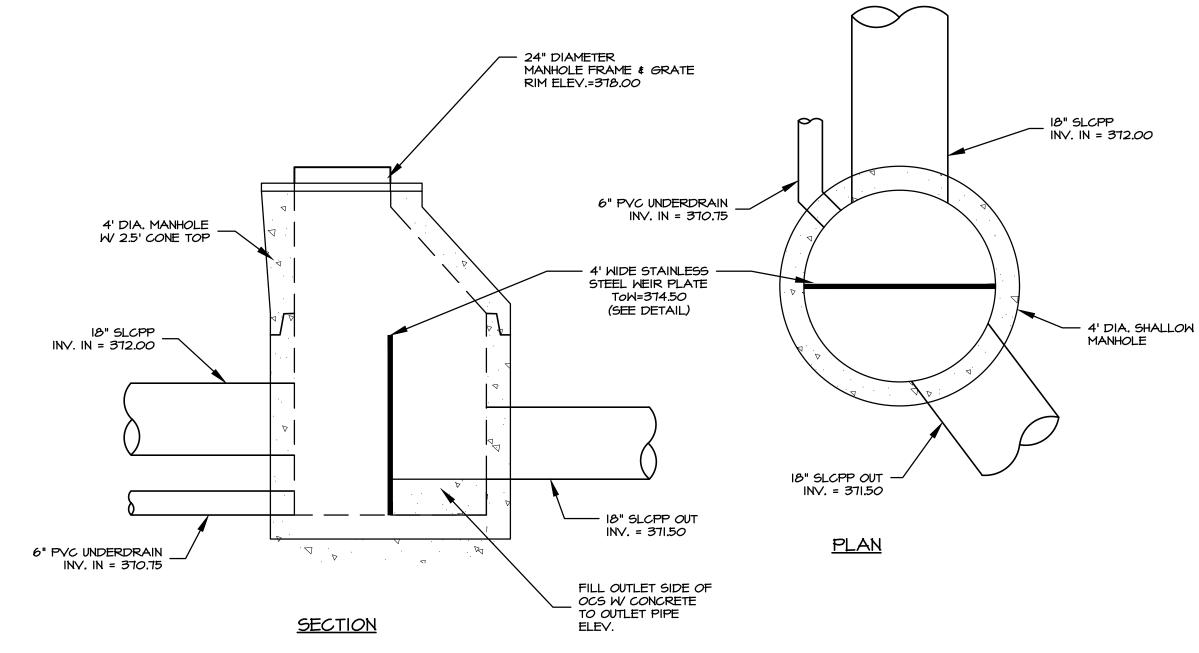
<u>SECTION</u>

- 3. STRUCTURES SHALL BE PRE-CAST.
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- 5. MATERIAL AND CONSTRUCTION SHALL COMPLY WITH PENN D.O.T. PUB. 408.
- 24" DIAMETER MANHOLE FRAME & GRATE RIM ELEV.=375.25 6. CLASS AA CONCRETE 4,000 PSI AT 28 DAYS. 7. REINFORCEMENT - ASTM AI85/A615 GRADE 60, MIN. I 1/2" - 2" ADJUSTMENT RING(S) TO GRADE 18" SLCPP INV. IN = 367.00 - CONE TOP INV. IN = 365.75 - 4' DIA. MANHOLE 4' DIA. - 4' WIDE STAINLESS MANHOLE . STEEL WEIR PLATE ToW=370.00 (SEE DETAIL) 18" SLCPP INV. IN = 367.00 18" SLCPP OUT INV. = 366.50 - 18" SLCPP OUT INV. = 366.50<u>PLAN</u> 6" PVC UNDERDRAIN INV. IN = 365.75 FILL OUTLET SIDE OF OCS W CONCRETE

TO OUTLET PIPE ELEV.

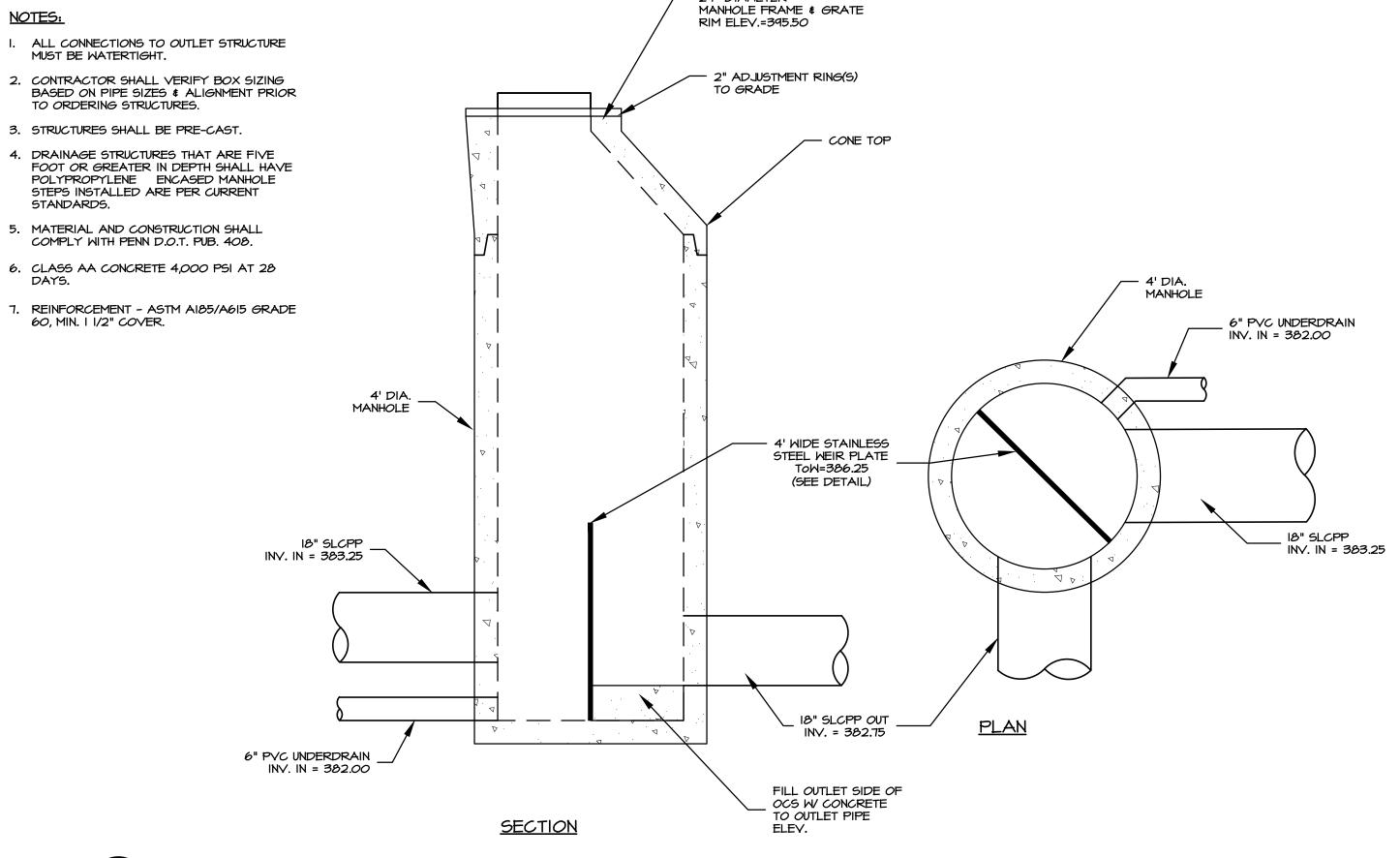
### NOTES:

- I. ALL CONNECTIONS TO OUTLET STRUCTURE MUST BE WATERTIGHT.
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- 6. CLASS AA CONCRETE 4,000 PSI AT 28 DAYS.
- 7. REINFORCEMENT ASTM A185/A615 GRADE 60, MIN. 1 1/2" COVER.



# NOTES:

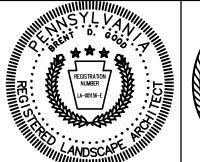
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- COMPLY WITH PENN D.O.T. PUB. 408.
- 6. CLASS AA CONCRETE 4,000 PSI AT 28
- 7. REINFORCEMENT ASTM AI85/A615 GRADE

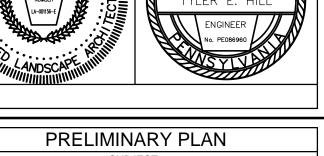


24" DIAMETER

**REVISIONS PER:** DATE: BY:







STORMWATER DETAILS WESTMOUNT MOUNT JOY TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA VISTABLOCK, LLC 150 FARMINGTON LANE

LANCASTER, PA 17601

717-682-8775

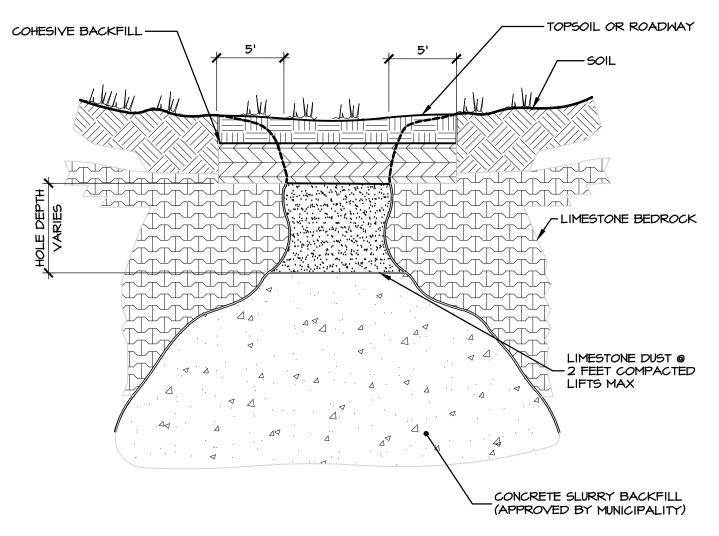
BLM | SCALE:

MANAGER: BDG DATE: OCTOBER 7, 2024 BDG PROJECT NO. 1212-004 DESIGNER:

AS NOTED

DRAWING NO.

DRAWN BY:



## SINKHOLE REPAIR NOTES:

I. ANY SINKHOLE ENCOUNTERED PRECEDING, OR DURING SITE DEVELOPMENT ON ANY AREA THAT IS INTENDED TO BE OFFERED TO THE CITY FOR DEDICATION (BE IT FOR SANITARY SEWER EASEMENT, STREET RIGHT-OF-WAY, STORM SEWER EASEMENT, OR ANY OTHER PUBLIC USE) SHALL BE REPAIRED USING THE FOLLOWING METHODS:

A. REMOVE ALL UNSUITABLE SOIL IN THE LOCATION OF THE SINKHOLE IN ORDER TO LOCATED AN OPENING (SINKHOLE "THROAT") IN THE BEDROCK, IF

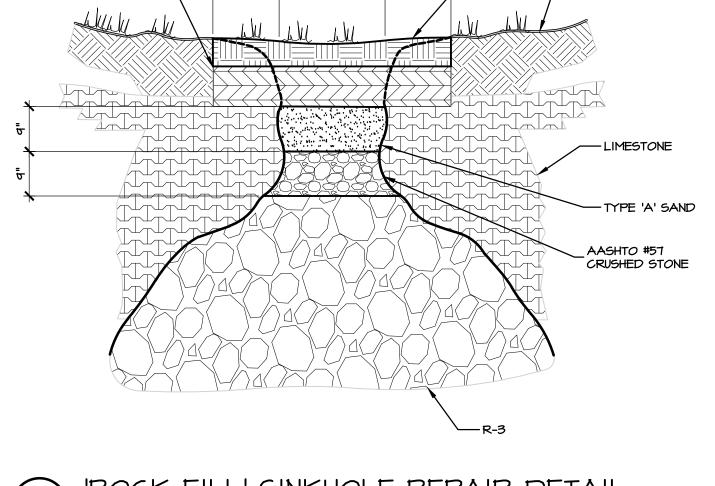
B. "THROAT" SHOULD BE FLUSHED WITH WATER TO CLEAR, OPENING, TO BE IMMEDIATELY FILLED WITH A FLOWABLE FILL OR CONCRETE SLURRY UNTIL MATERIAL BACKS UP IN TO EXCAVATED HOLE. ALLOW CONCRETE TO SETUP FOR TWENTY-FOUR

C. FILL HOLE WITH LIMESTONE "DUST", COMPACTED IN LIFTS OF TWO FEET MAXIMUM DEPTH.

D. REPLACE SUBSOIL IMMEDIATELY BELOW SURFACE AND RESTORE SURFACE AS PER INTENDED USE, I.E., GRASSED AREA, ROADWAY, DRIVEWAY,

2. THE DEVELOPER SHALL NOTIFY THE MUNICIPALITY IF ANY SINKHOLES ARE ENCOUNTERED DURING DEVELOPMENT, AND SHALL PROVIDE THE MUNICIPALITY WITH A DESCRIPTION AND LOCATION OF ANY SINKHOLE REPAIR.

'CONCRETE FILL' SINKHOLE REPAIR DETAIL



COHESIVE BACKFILL —

I. STRIP ALL SOFT OR UNSUITABLE MATERIALS EXTENDING HORIZONTALLY 5 FEET BEYOND THE PERIMETER OF THE EXISTING SINKHOLE TO A DEPTH OF COMPETENT BEDROCK OR TO 3 FEET BELOW PLAN SUBGRADE, WHICHEVER

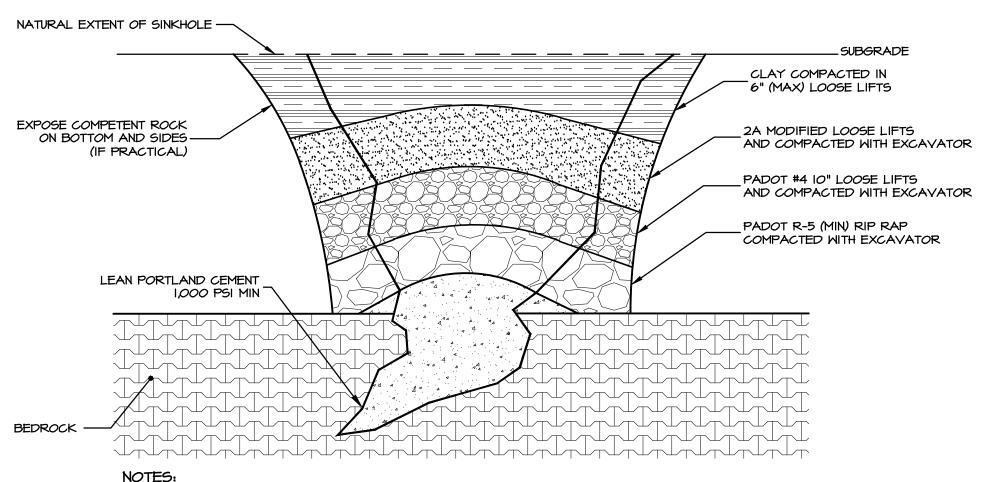
2. FILL SINKHOLE WITH R-3 ROCK TO 18 INCHES BELOW THE LEVEL OF THE STRIPPED SURFACE. USE LARGER ROCK IF NECESSARY TO FILL VOIDS. FILL THE REMAINING IS INCHES WITH AASHTO #57 CRUSHED STONE AND 9 INCHES OF THE TYPE 'A' SAND AS SHOWN. COMPACT TO AN UNYIELDING CONDITION.

3. FILL AREA WITH CONTROLLED MATERIAL TO PLAN SUBGRADE, AND REPLACE TOPSOIL.

4. HEAVY CONSTRUCTION EQUIPMENT SHALL NOT TRAVERSE THE CORRECTED AREA.

5. THE MUNICIPALITY AND/OR MUNICIPALITY ENGINEER SHALL BE CONTACTED PRIOR TO ANY SINKHOLE REPAIR.

'ROCK FILL' SINKHOLE REPAIR DETAIL



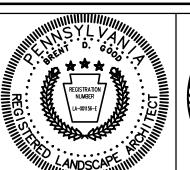
I. SINKHOLE MITIGATION MEASURES SHOULD BE APPROVED BY A PA LICENSED GEOLOGIST OR ENGINEER PRIOR TO

2. EXAMPLE MITIGATION PRESENTED FOR SINKHOLES NOT NEAR SURFACE STRUCTURES AND/OR STRUCTURAL SUPPORT. 3. THICKNESS OF BACKFILL MATERIAL WILL VARY BASED ON SITE CONDITIONS. IT IS SUGGESTED THAT A PA LICENSED GEOLOGIST BE CONSULTED PRIOR TO MITIGATION

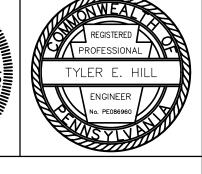


RE	EVISIONS PER:	DATE:	BY:
1.	-	-	-
2.	-	-	-
3.	-	-	-
4.	-	-	-
5.	-	-	-





MANAGER:



STORMWATER DETAILS WESTMOUNT

PRELIMINARY PLAN

MOUNT JOY TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA VISTABLOCK, LLC 150 FARMINGTON LANE

> LANCASTER, PA 17601 717-682-8775 BDG DATE: OCTOBER 7, 2024

BDG PROJECT NO. 1212-004 DRAWN BY: BLM | SCALE: AS NOTED

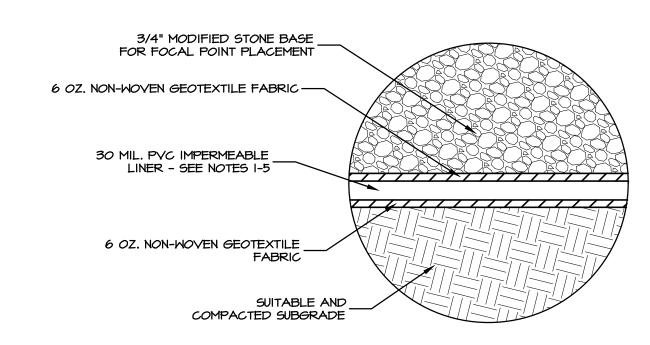
DRAWING NO. 75 of 86

				WEIR PLA	TE SCHE	DULE				
BMP	STRUCTURE	STRUCUTRE	MRC ORIFICE (0 <sub>i</sub> )		ORIFICE #2 (O <sub>2</sub> )		WEIR #I (W <sub>I</sub> )		TOP OF WEIR PLATE ( $W_2$ )	
NO.	ID	TYPE	DIA. (IN.)	ELEV. (FT)	DIA. (IN.)	ELEV. (FT)	WIDTH (IN.)	ELEV. (FT)	WIDTH (FT)	ELEV. (FT)
2	005-2	TYPE 4 BOX	<u>7</u> "	402.00	6"	403.00	12"	404.00	4'	405.00
4	<i>0</i> C5-4	TYPE 4 BOX	<b> "</b>	396.50	N/A	N/A	12"	397.50	4'	399.50
6	005-6	TYPE 4 BOX	<b>"</b>	397.00	6"	398.00	9"	399.00	4'	400.50
8	005-8	TYPE 4 BOX	Ι"	394.50	N/A	N/A	l2"	396.50	4'	397.75
10	005-10	TYPE 4 BOX	μ"	394.00	8"	395.00	l2"	396.50	4'	397.25
12	<i>0</i> C5-l2	TYPE 4 BOX	<b>"</b>	394.00	8"	395.00	l2"	396.50	4'	397.25
14	<i>0</i> 05-14	4' DIA. MANHOLE	34	365.00	6"	366.50	l2"	367.50	4'	368.50
17	OCS-17	4' DIA. MANHOLE	<u>7</u> "	371.50	6"	372.25	l2"	373.75	4'	374.50
19	005-19	4' DIA. MANHOLE	I-3/8"	366.50	8"	367.25	l2"	368.75	4'	370.00
22	005-22	4' DIA. MANHOLE	Ι"	382.75	8"	383.50	l2"	385.00	4'	386.25
25	<i>O</i> CS-25	TYPE 4 BOX	Ι"	394.00	6"	394.75	12"	395.75	4'	397.50

- I. ACTUAL DIMENSIONS TO CORRESPOND WITH THE INTERIOR DIMENSIONS OF THE PRECAST OUTLET STRUCTURE (CONTRACTOR TO VERIFY IN FIELD PRIOR TO FABRICATION OF THE VARIOUS ORIFICE/WEIR PLATE COMPONENTS).
- FABRICATOR TO PROVIDE SHOP DRAWINGS WITH DIMENSIONS AND MATERIALS LIST.
- 3. AS AN ALTERNATIVE, CONTRACTOR MAY SUBSTITUTE STEEL WEIR PLATE WITH 6" THICK PRECAST OR CAST-IN PLACE CONCRETE WEIR.

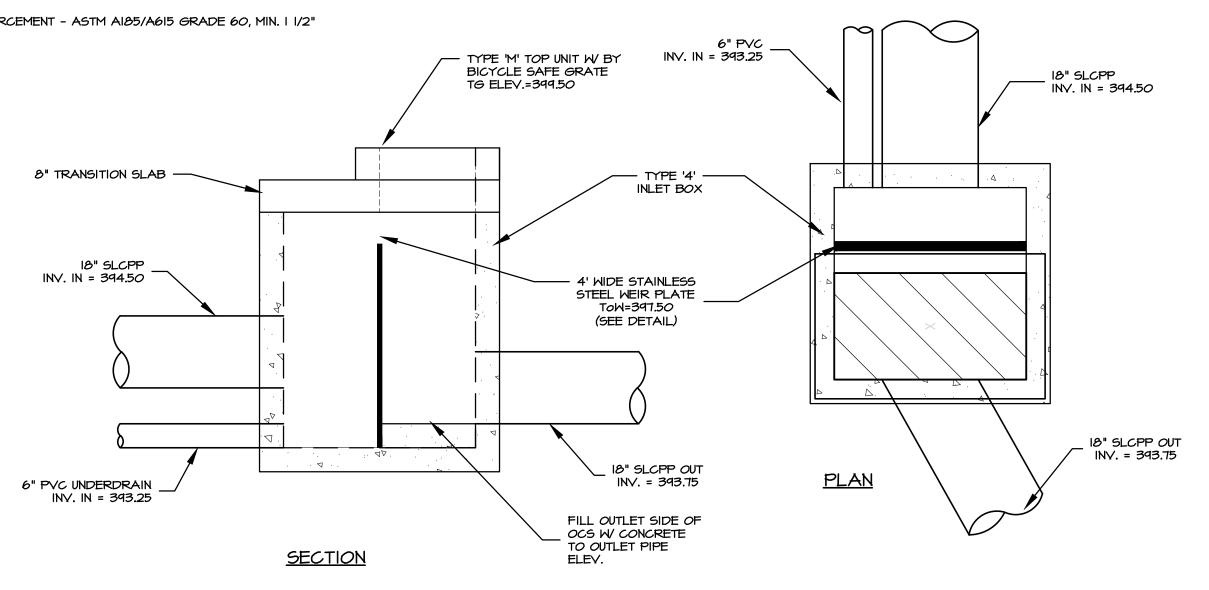
LINER NOTES:

- I. THE PREPARATION OF SUBGRADE AND PLACEMENT OF THE PVC LINER SHALL BE CONDUCTED UNDER THE SUPERVISION OF THE GEOTECHNICAL PROFESSIONAL ON RECORD.
- 2. SUBGRADE PREPARATION SHALL INCLUDE REMOVAL OF LARGE ROCKS (>6") AND OTHER DELETERIOUS MATERIALS SUCH AS ROOTS, AND CONSTRUCTION RUBBLE, AS DIRECTED BY THE GEOTECHNICAL PROFESSIONAL OVERSEEING INSTALLATION. OVER EXCAVATE AS NECESSARY AND BACKFILL WITH SUITABLE FILL MATERIALS AND COMPACT.
- 3. PRIOR TO PLACEMENT, CONTRACTOR SHALL REFER TO MANUFACTURER SPECIFICATIONS FOR ALL MATERIAL SPECIFICATIONS, AS WELL AS SUBGRADE REQUIREMENTS.
- 4. THE PVC LINER SHALL BE A MANUFACTURED SINGLE SHEET OF PVC OR, IF INSTALLED USING MULTIPLE SHEETS, SHALL BE FIELD WELDED BY A QUALIFIED PROFESSIONAL.
- 5. ALL PIPE BOOTS/PROTRUSIONS SHALL BE WELDED AND



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- 6. CLASS AA CONCRETE 4,000 PSI AT 28 DAYS.
- 7. REINFORCEMENT ASTM AI85/A615 GRADE 60, MIN. I 1/2"

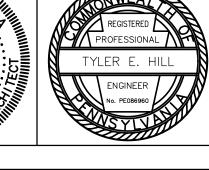


MRC BMP 2 ORIFICE/WEIR PLATE DETAIL

REVISIONS PER: DATE: BY:





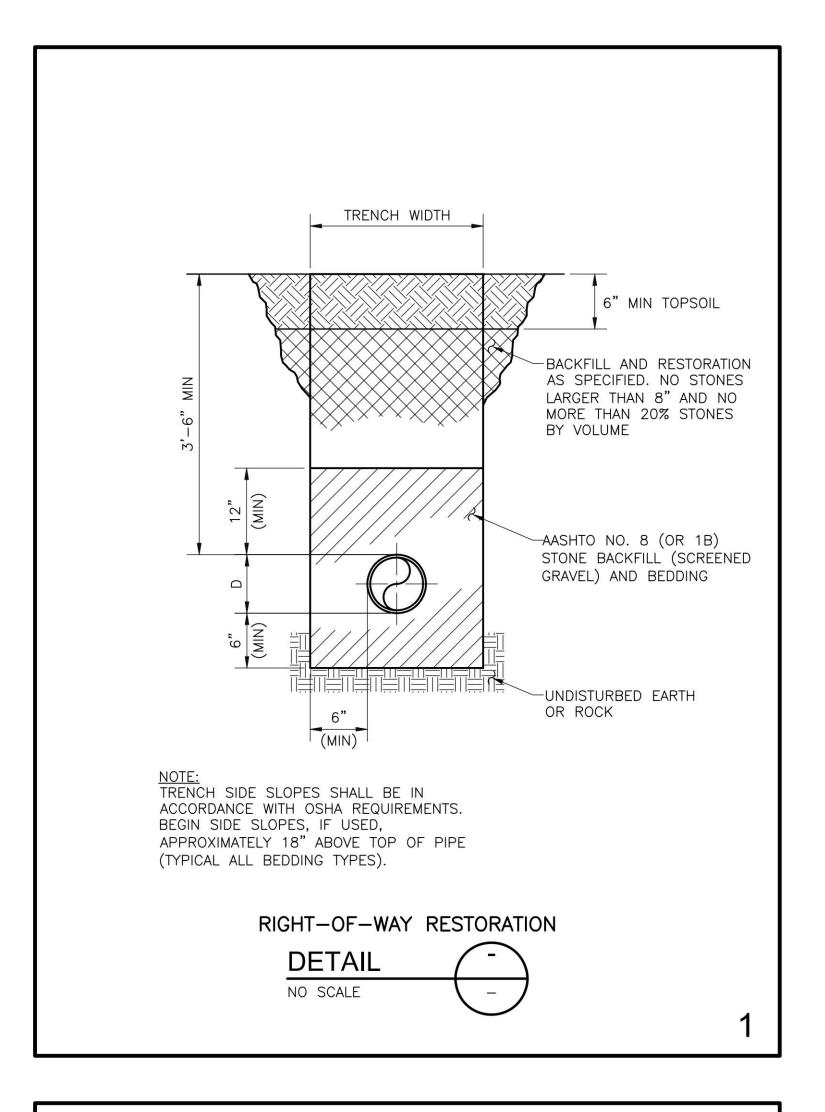


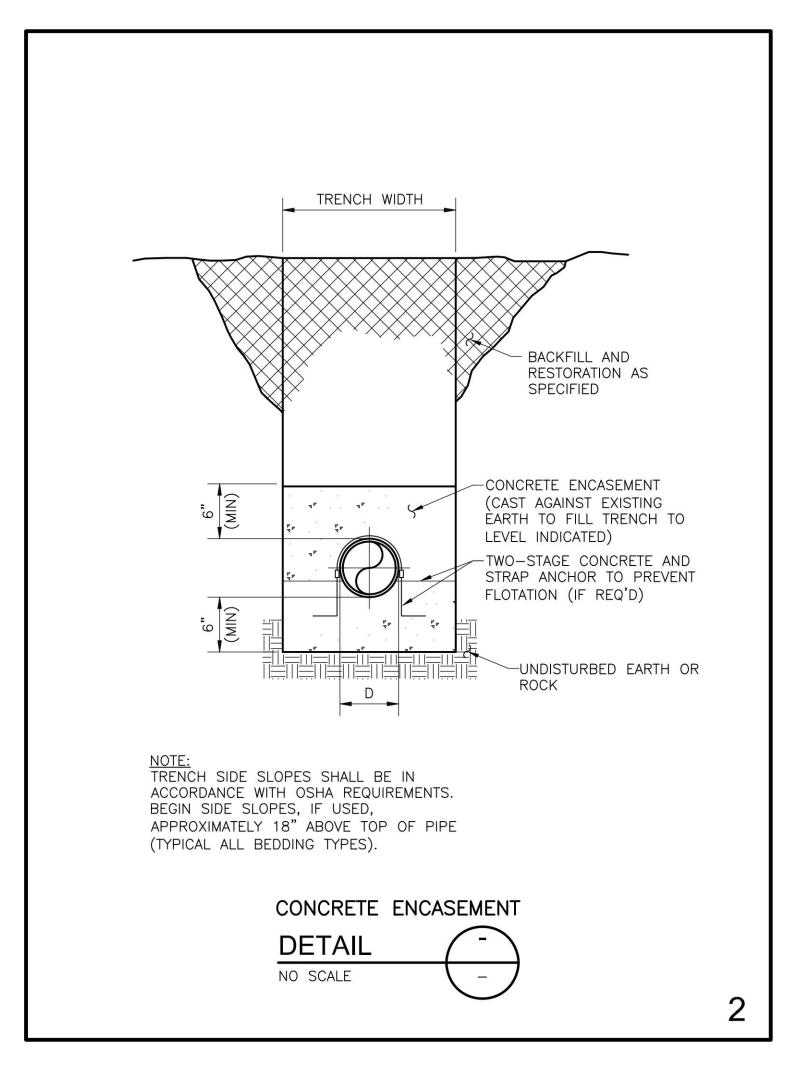
PRELIMINARY PLAN STORMWATER DETAILS

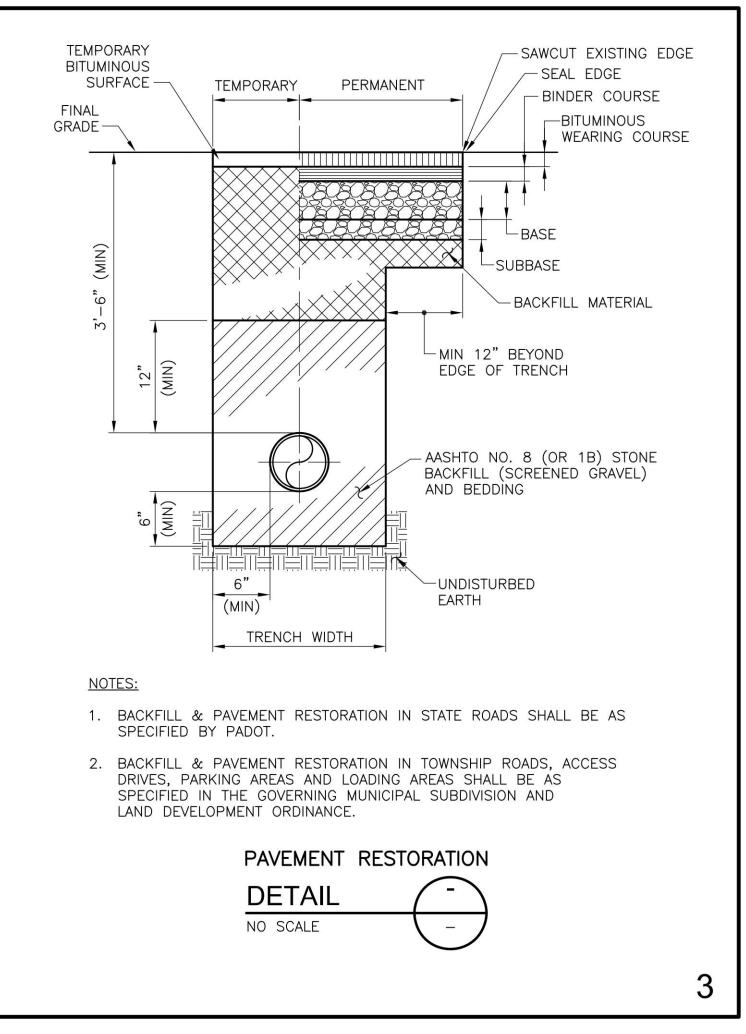
WESTMOUNT MOUNT JOY TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA VISTABLOCK, LLC

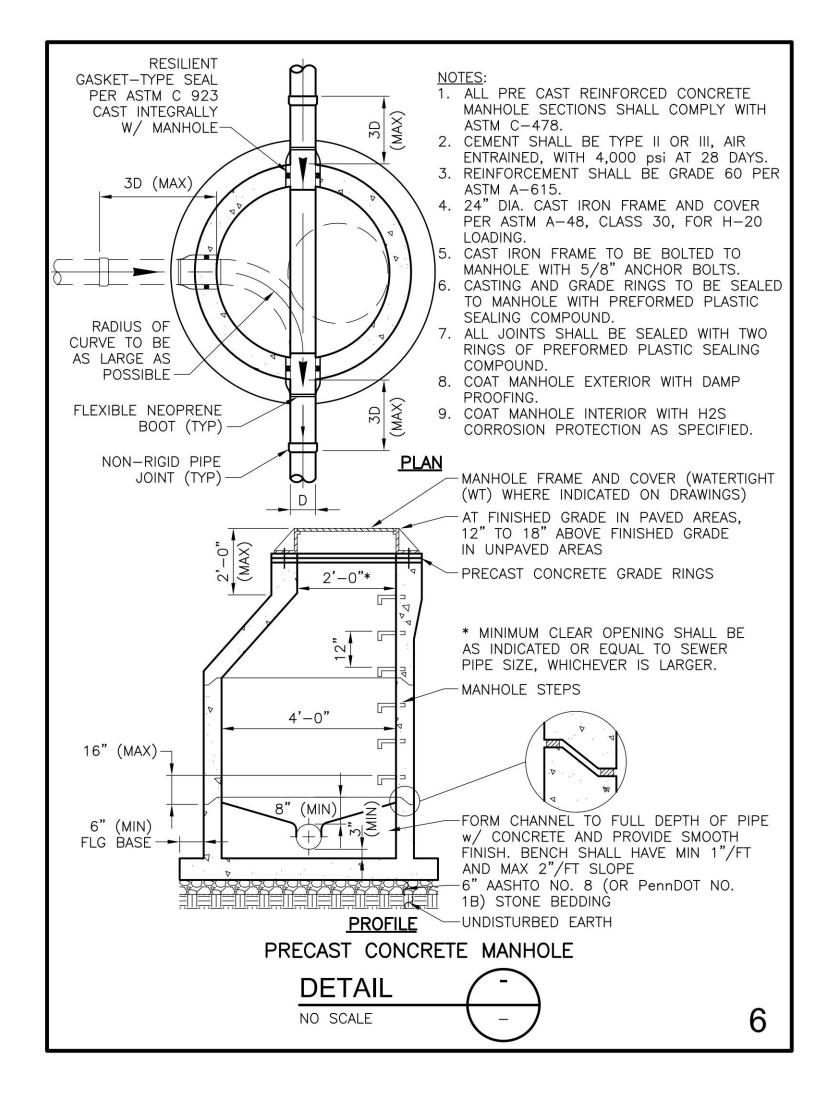
> 150 FARMINGTON LANE LANCASTER, PA 17601 717-682-8775

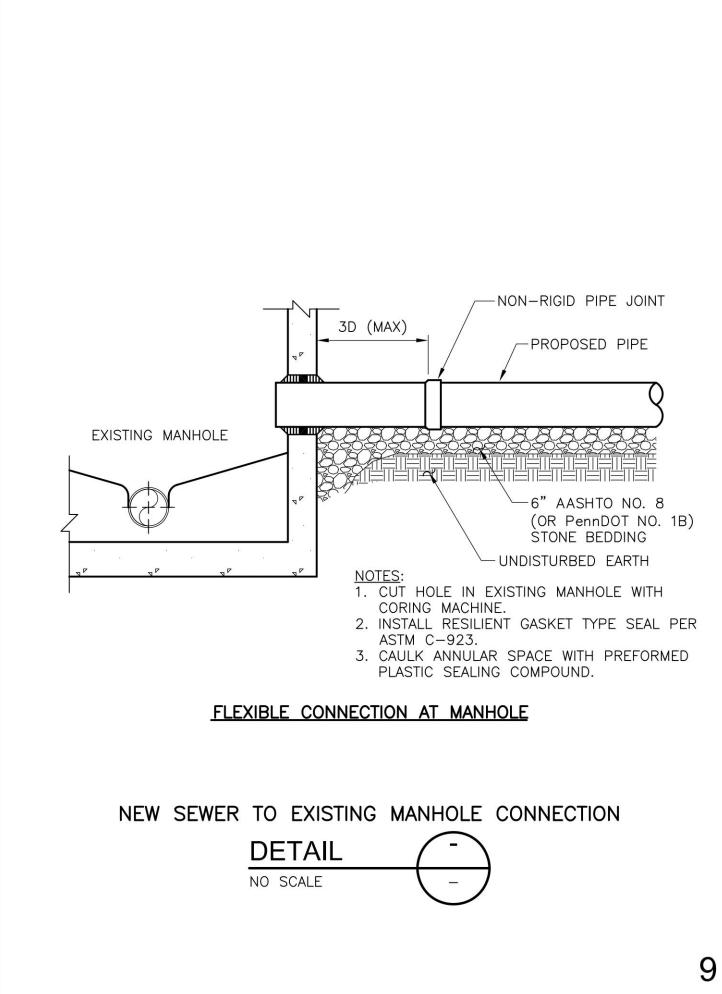
MANAGER:	BDG	DATE: OCTO	DBER 7, 2024
DESIGNER:	BDG	PROJECT NO.	1212-004
DRAWN BY:	BLM	SCALE:	AS NOTED

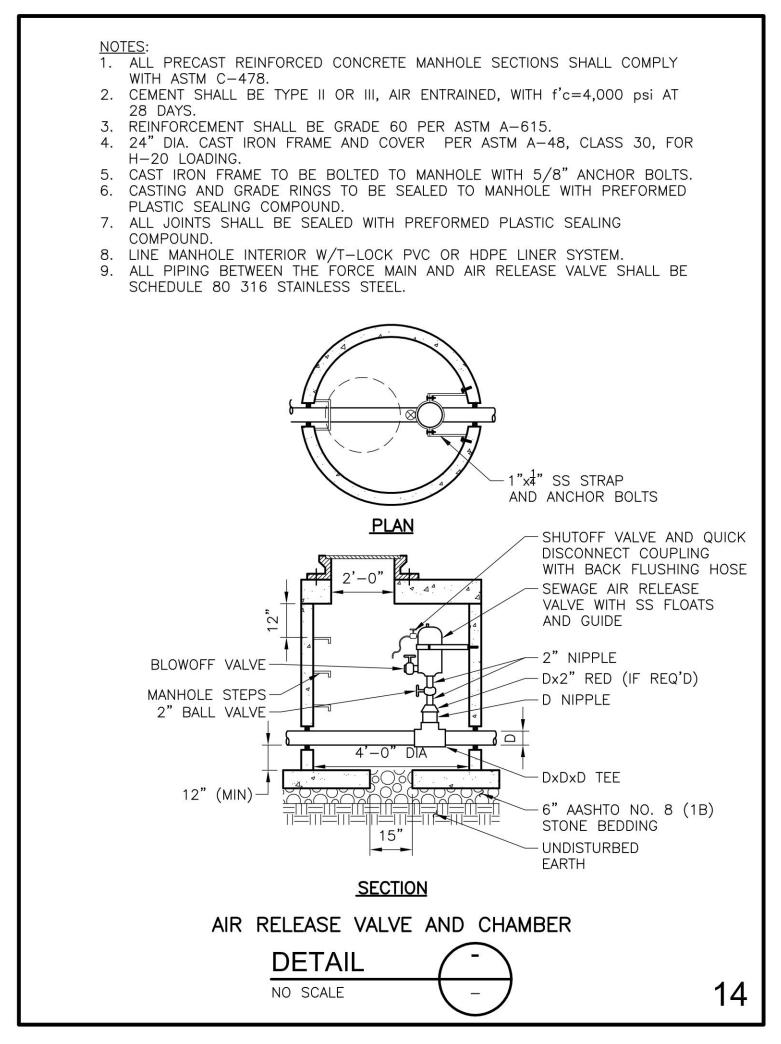


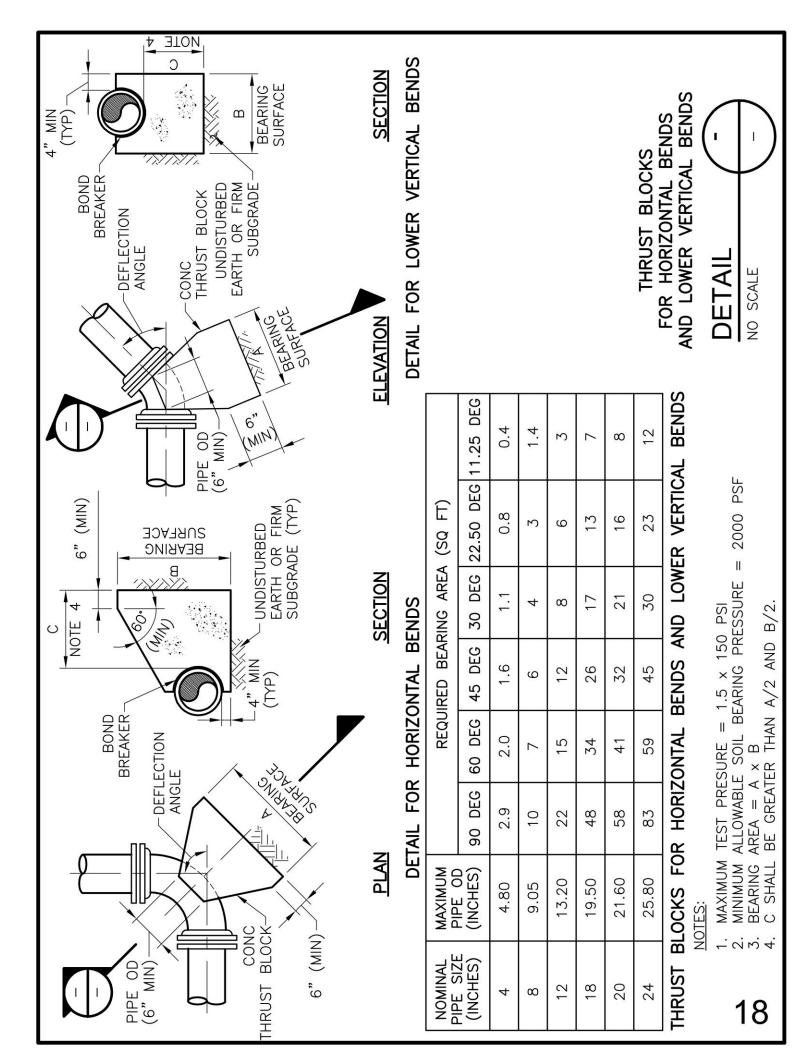


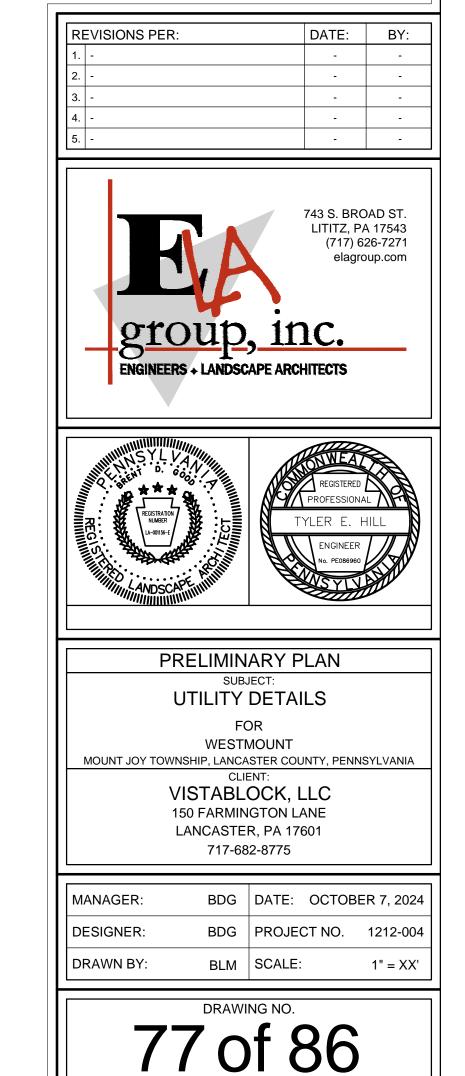


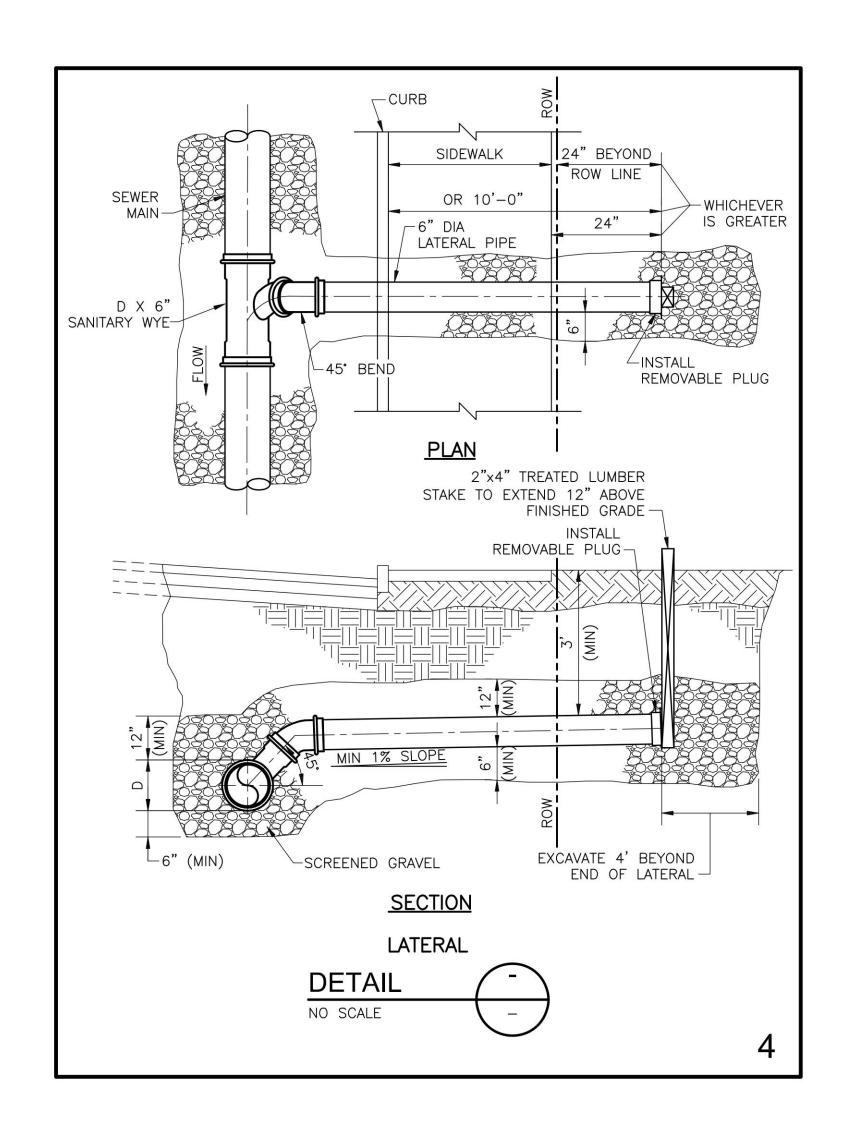


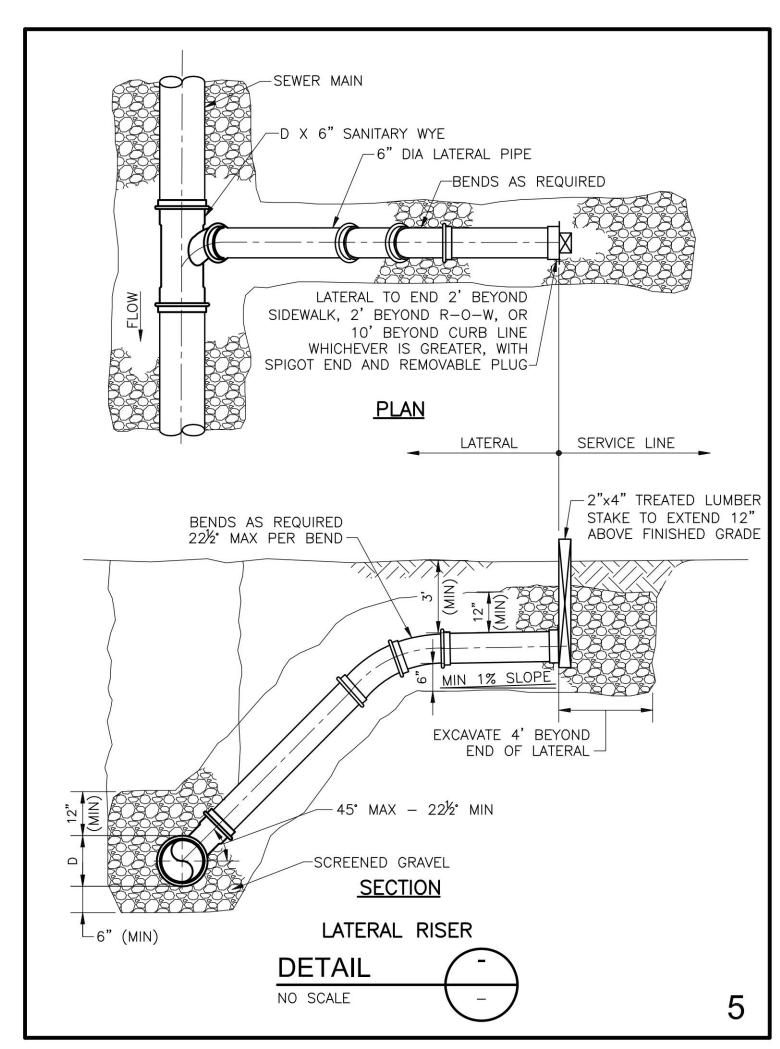


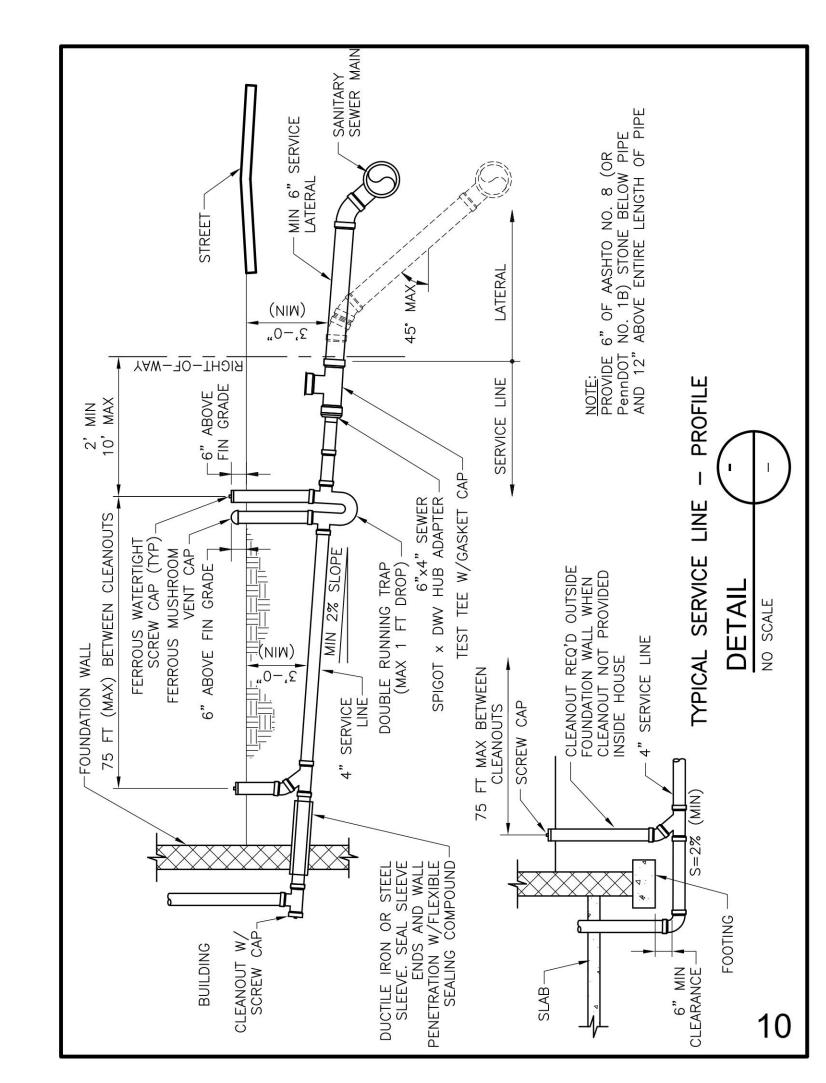


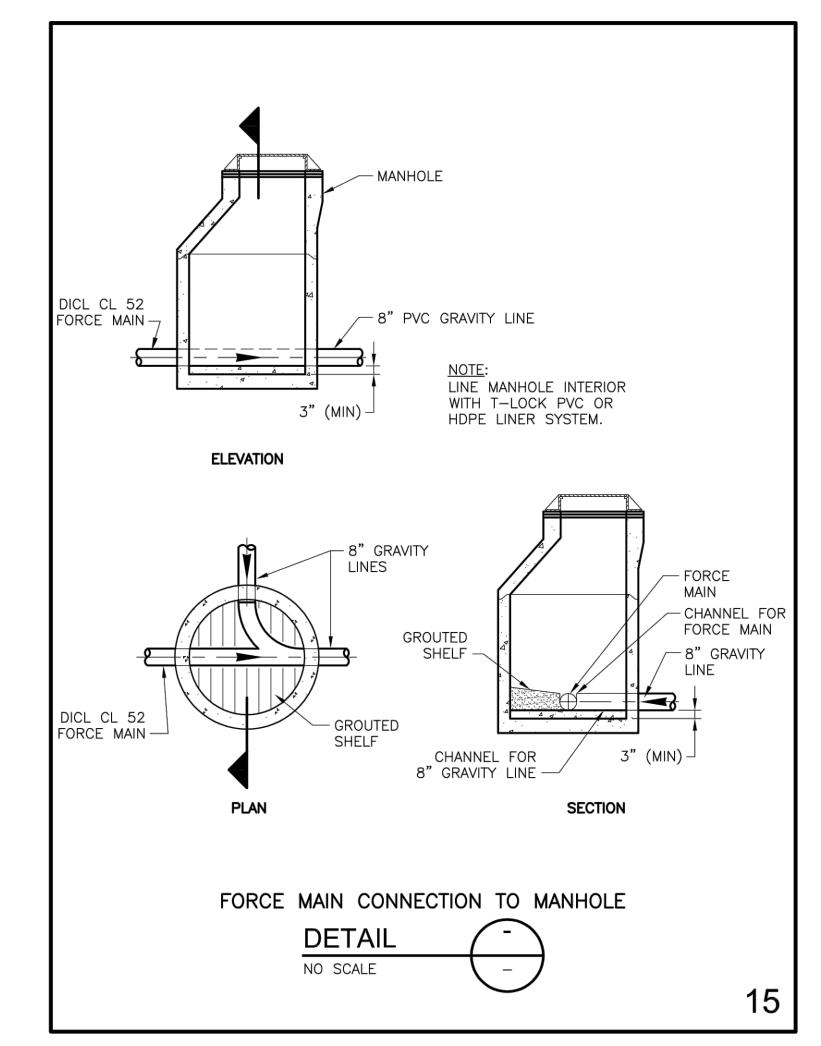


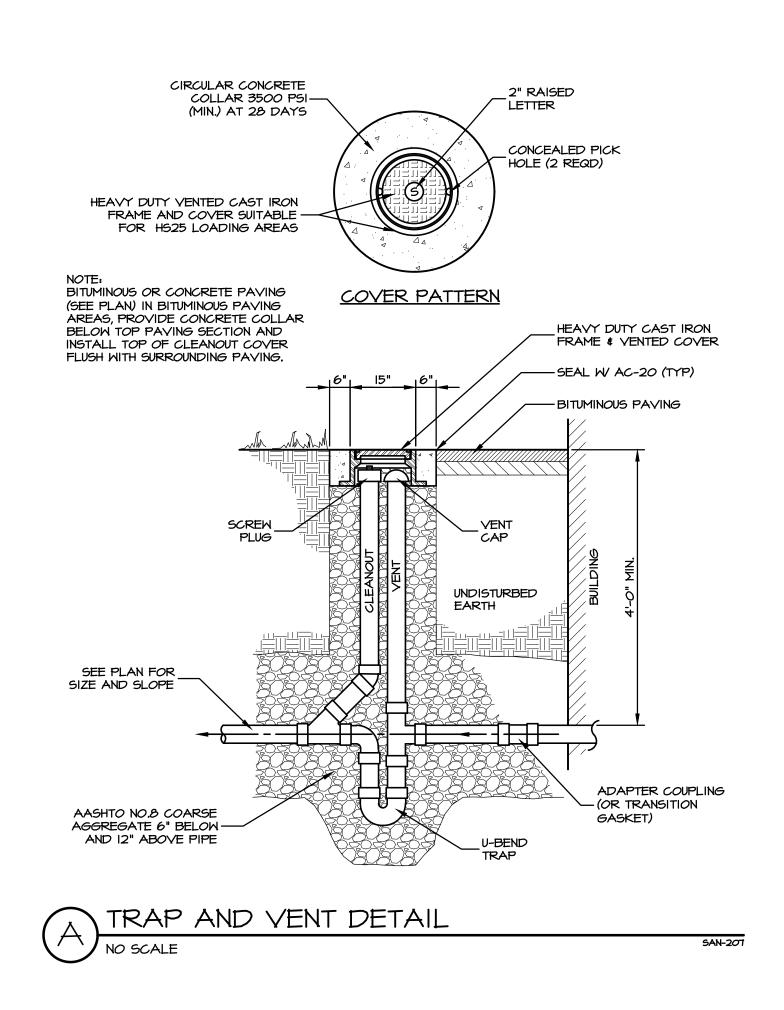


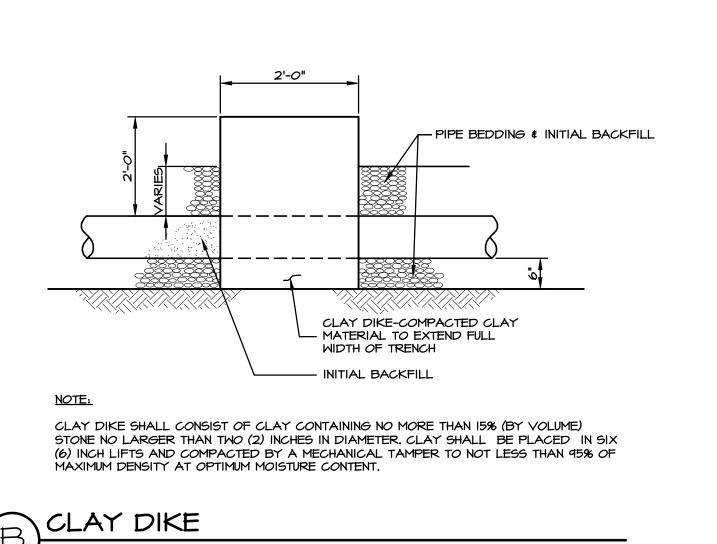


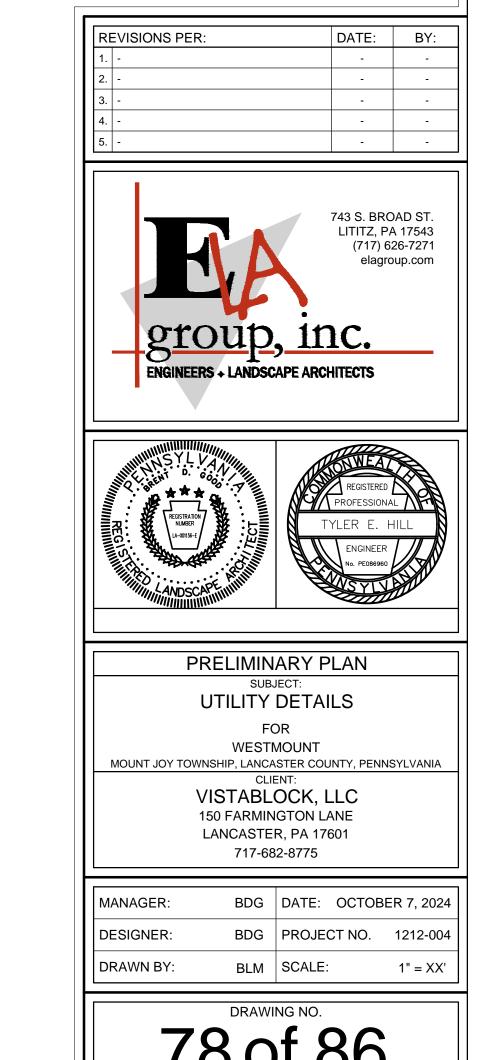


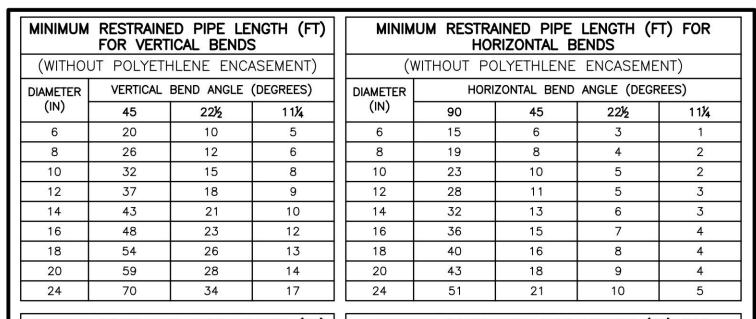




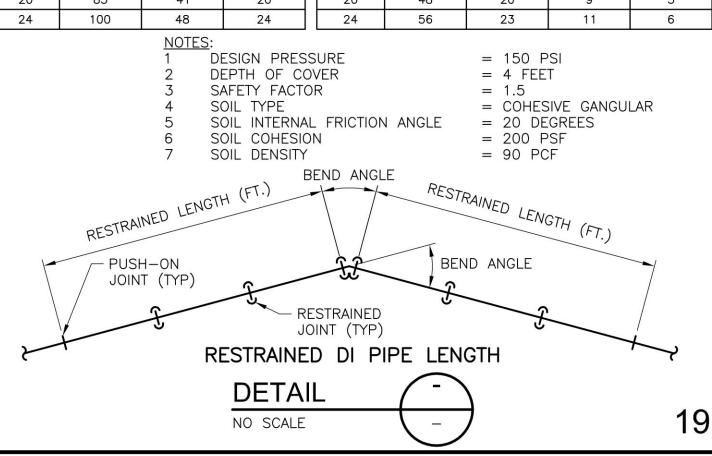


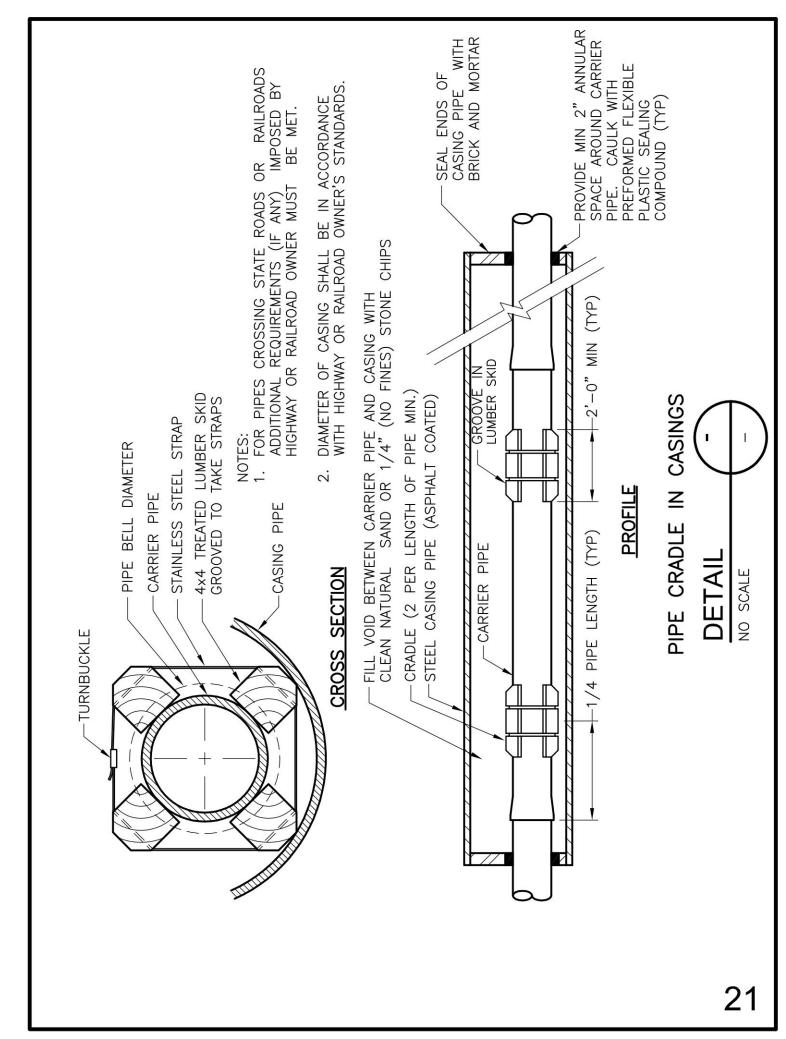


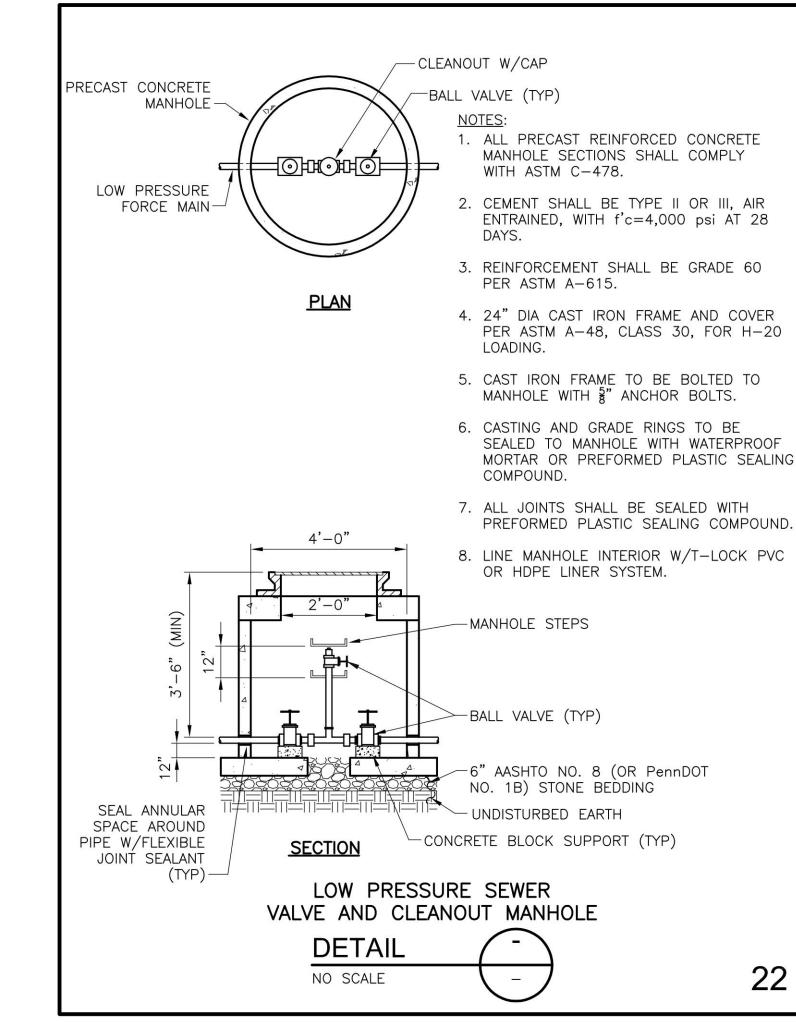


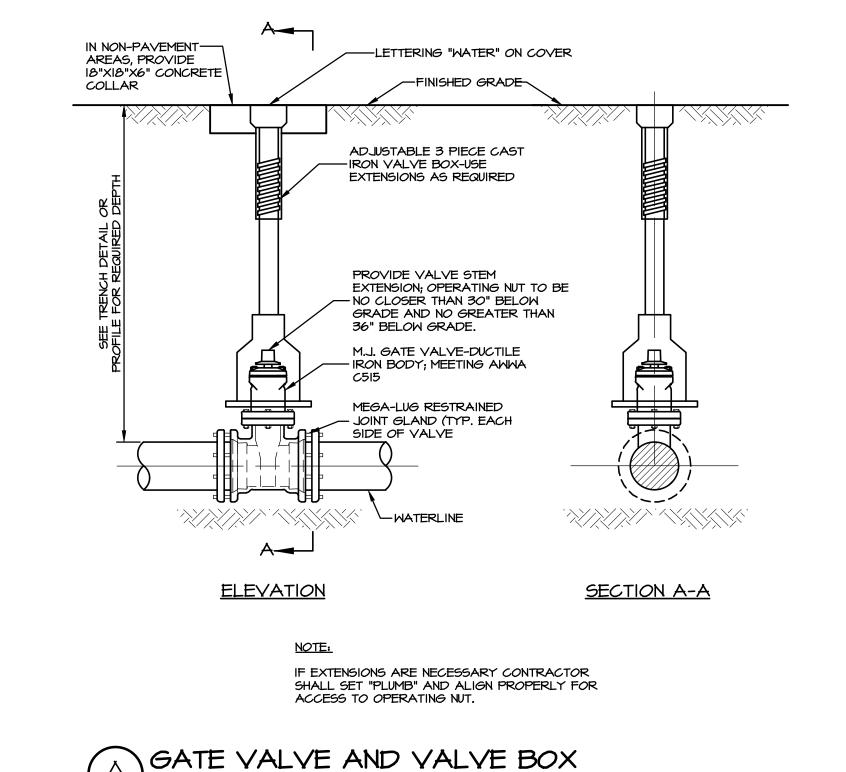


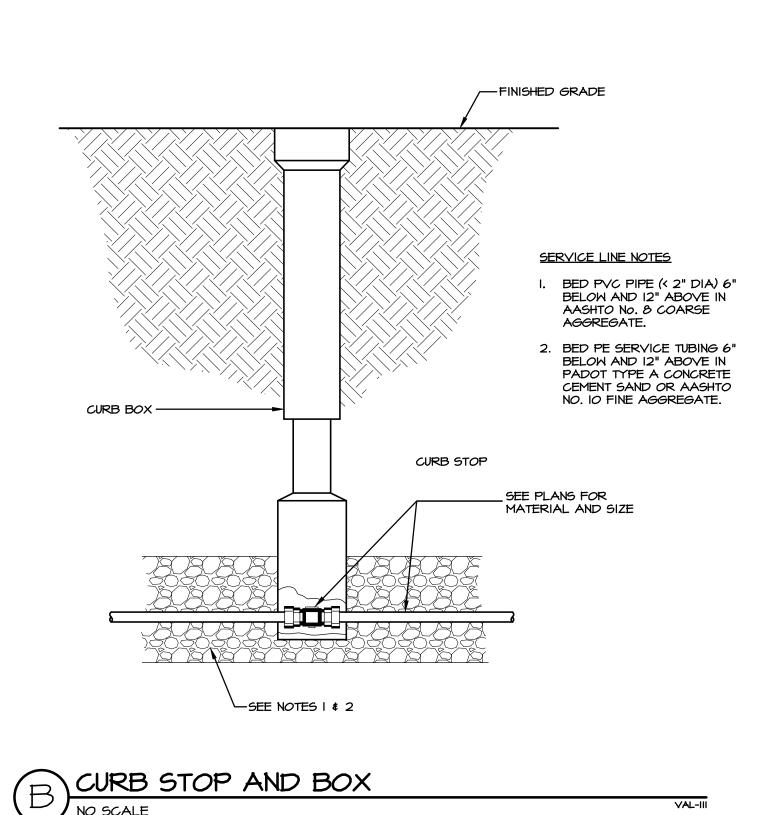
MINIMUM		ED PIPE LE ICAL BENDS		MINIM		AINED PIPE RIZONTAL B		T) FOR
(WITH	(WITH POLYETHLENE ENCASEMENT)				(WITH POL	YETHLENE E	ENCASEMEN <sup>®</sup>	T)
DIAMETER	VERTICAL	BEND ANGLE	(DEGREES)	DIAMETER	HORI	ZONTAL BEND	ANGLE (DEGR	REES)
(IN)	45	221/2	1 11/4	(IN)	90	45	22½	111/4
6	29	14	7	6	16	7	3	2
8	37	18	9	8	21	9	4	2
10	45	22	11	10	26	11	5	3
12	53	26	13	12	30	13	6	3
14	61	29	15	14	35	14	7	3
16	69	33	16	16	39	16	8	4
18	77	37	18	18	44	18	9	4
20	85	41	20	20	48	20	9	5
24	100	48	24	24	56	23	11	6

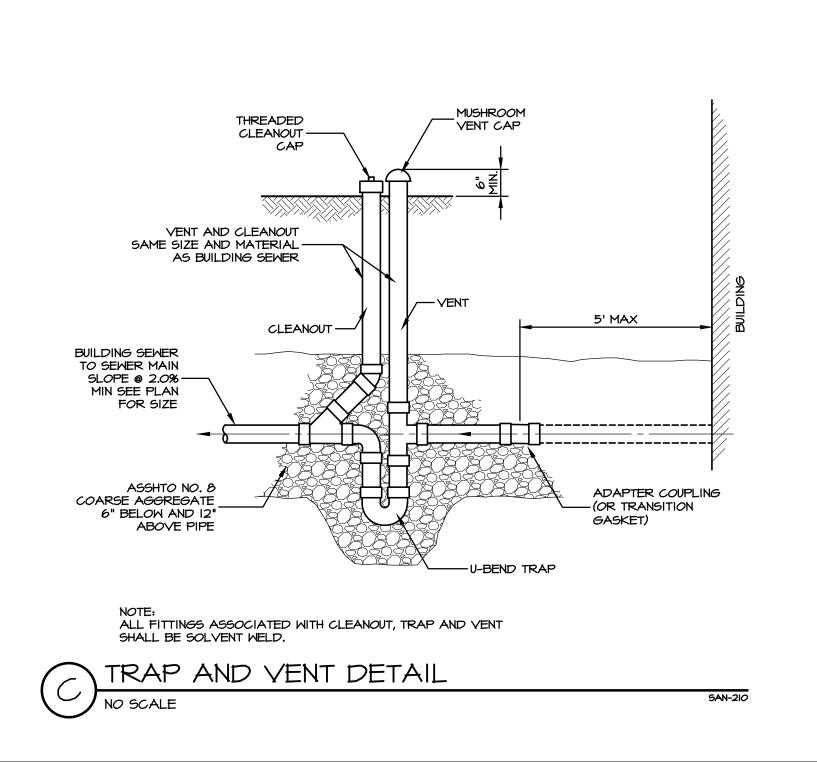


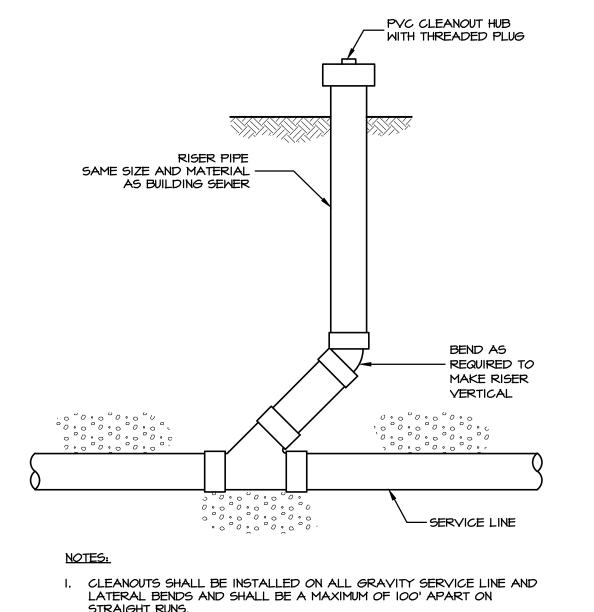










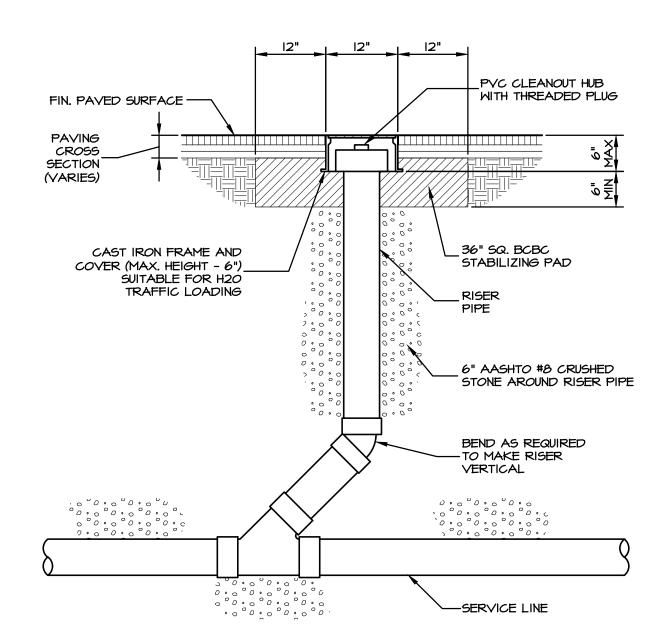




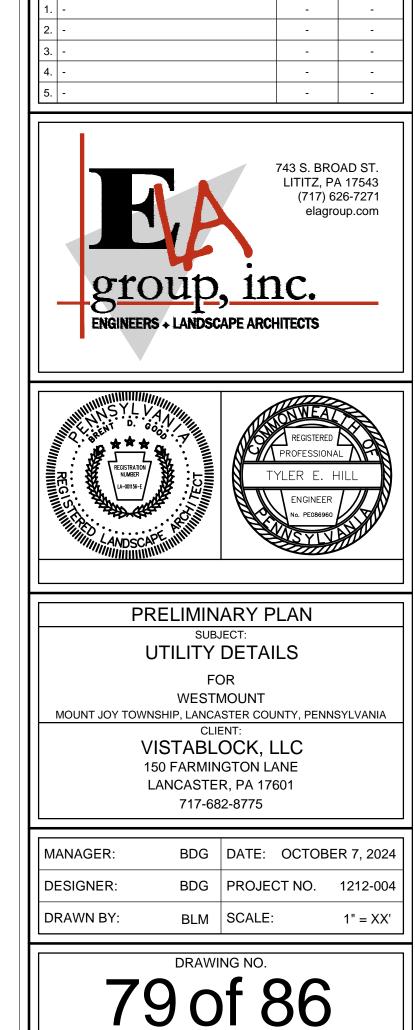
2. TOPS OF CLEANOUTS SHALL BE SET 12" ABOVE GRADE UNLESS OTHERWISE DIRECTED BY THE OWNER.

NEW CLEANOUT IN LAWN AREAS

NO SCALE

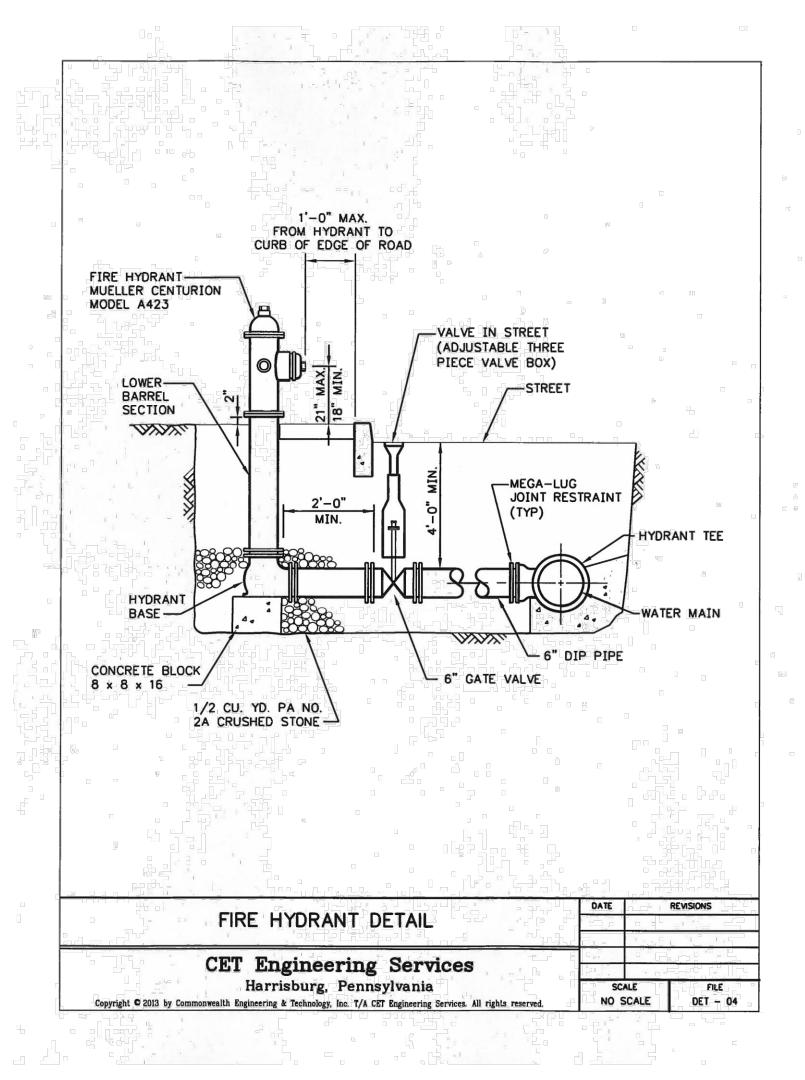


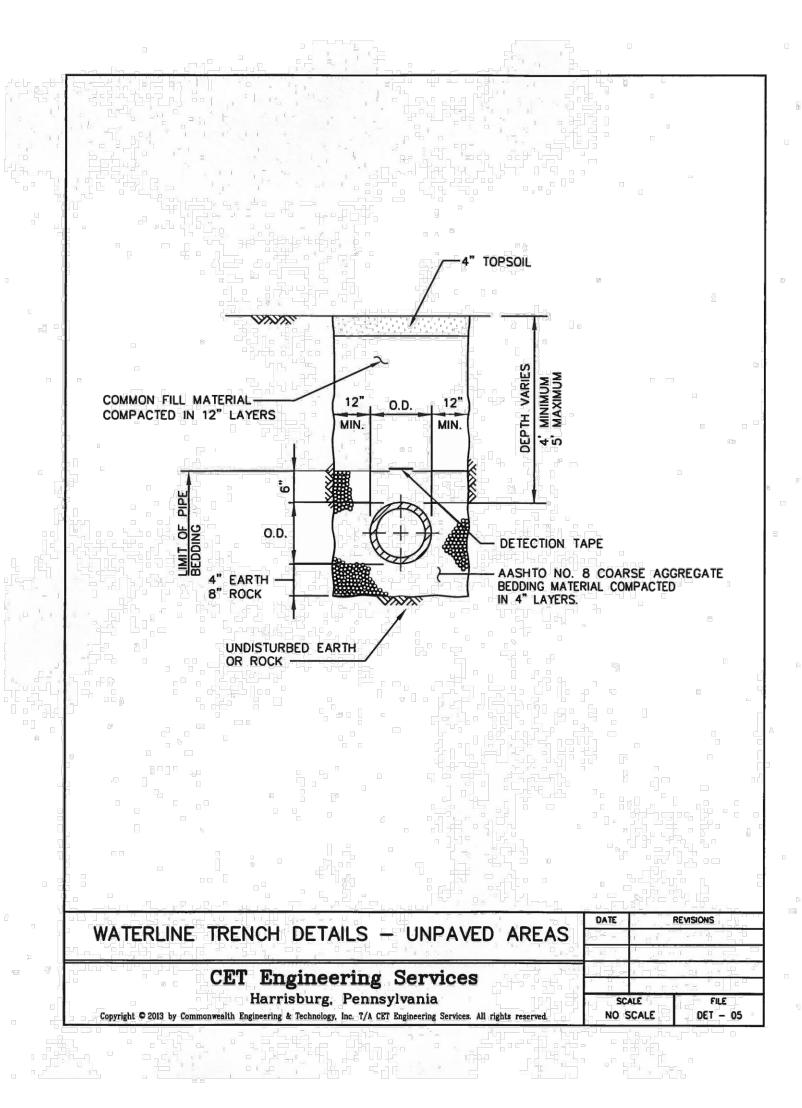


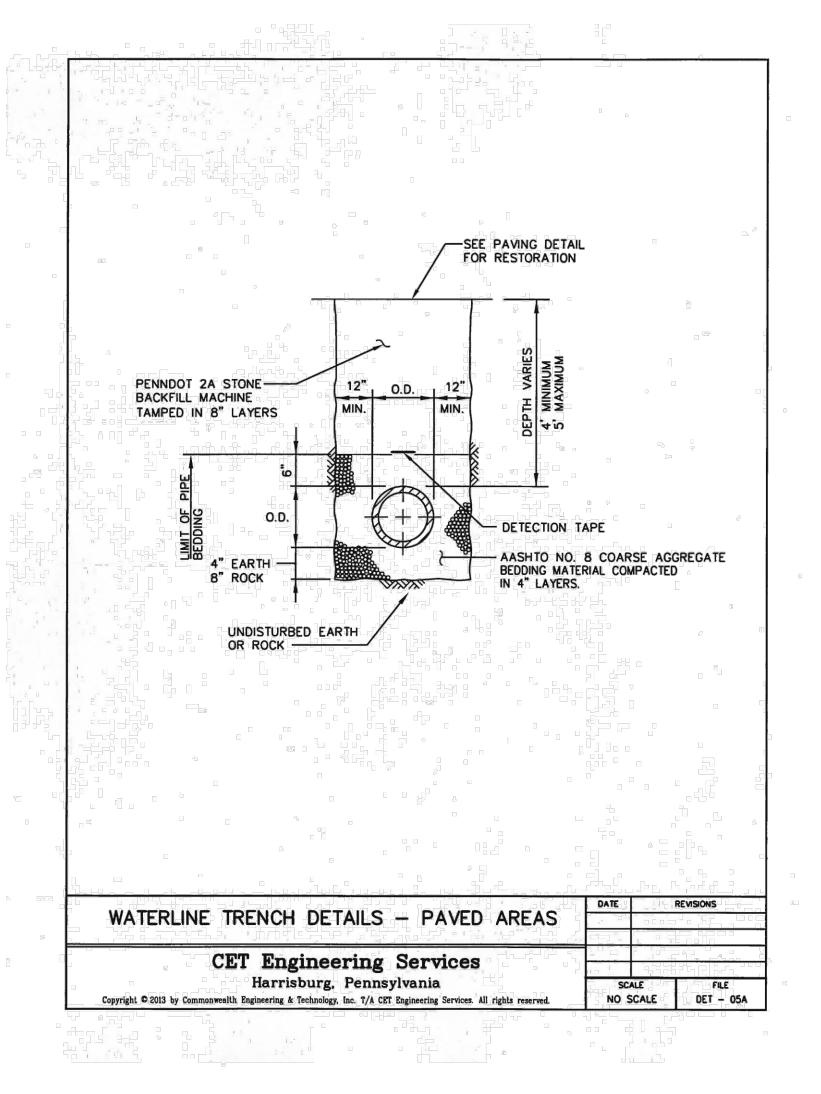


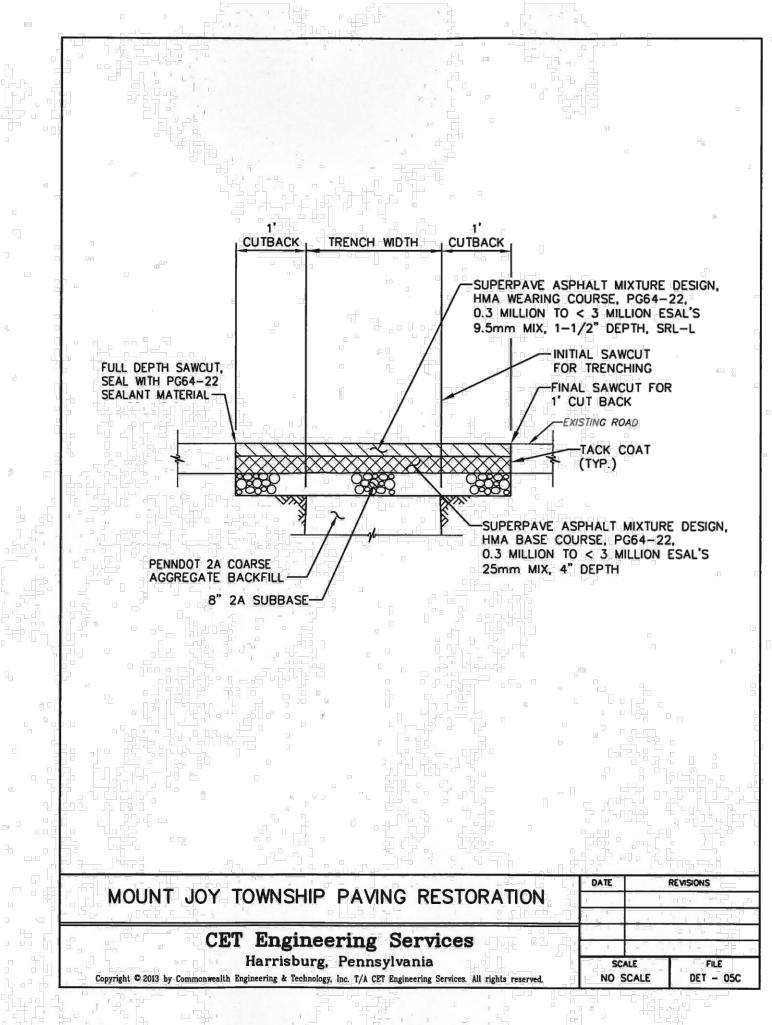
DATE: BY:

**REVISIONS PER:** 







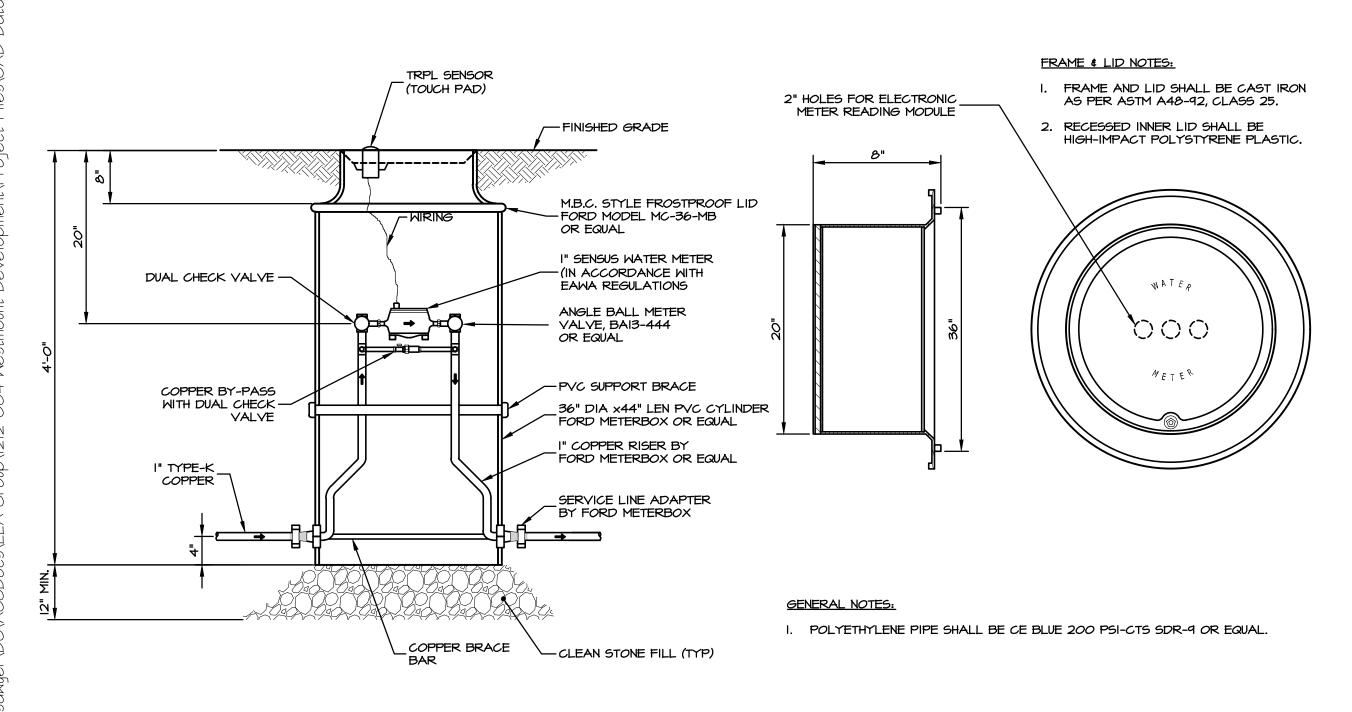


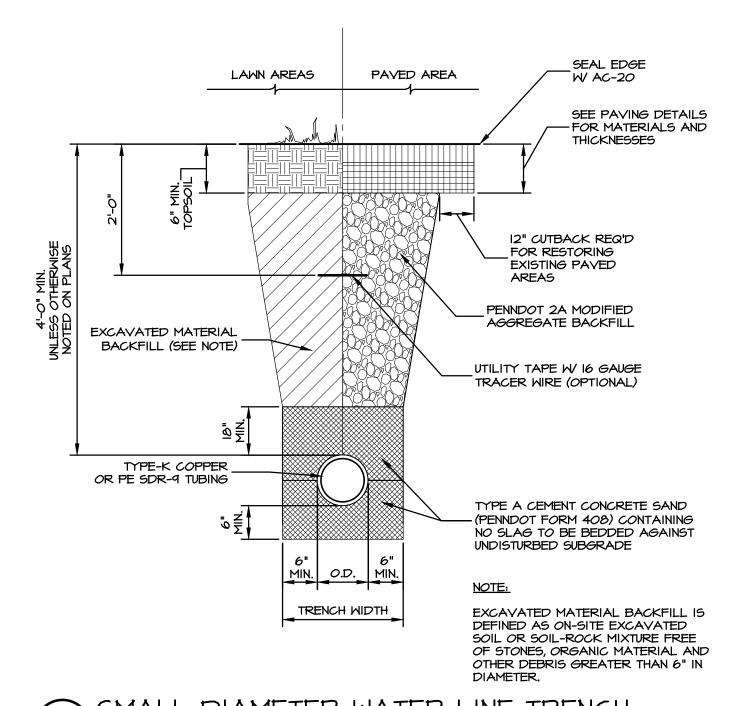
**REVISIONS PER:** 

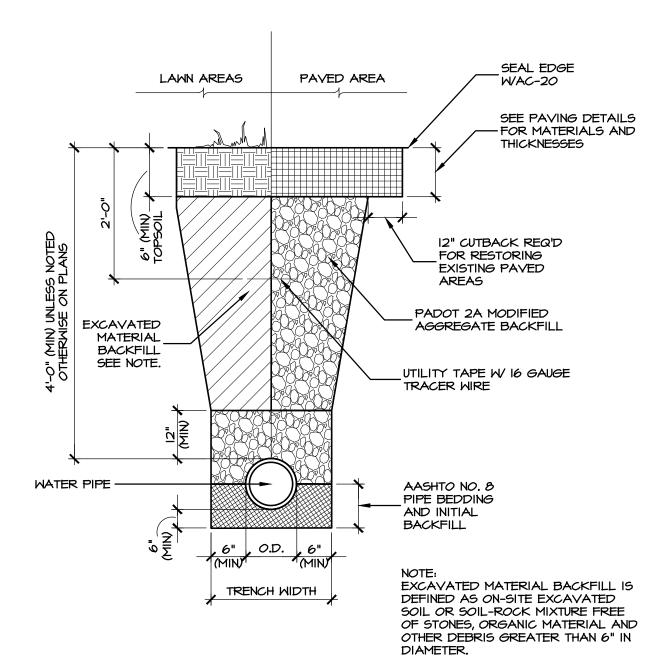
DATE: BY:

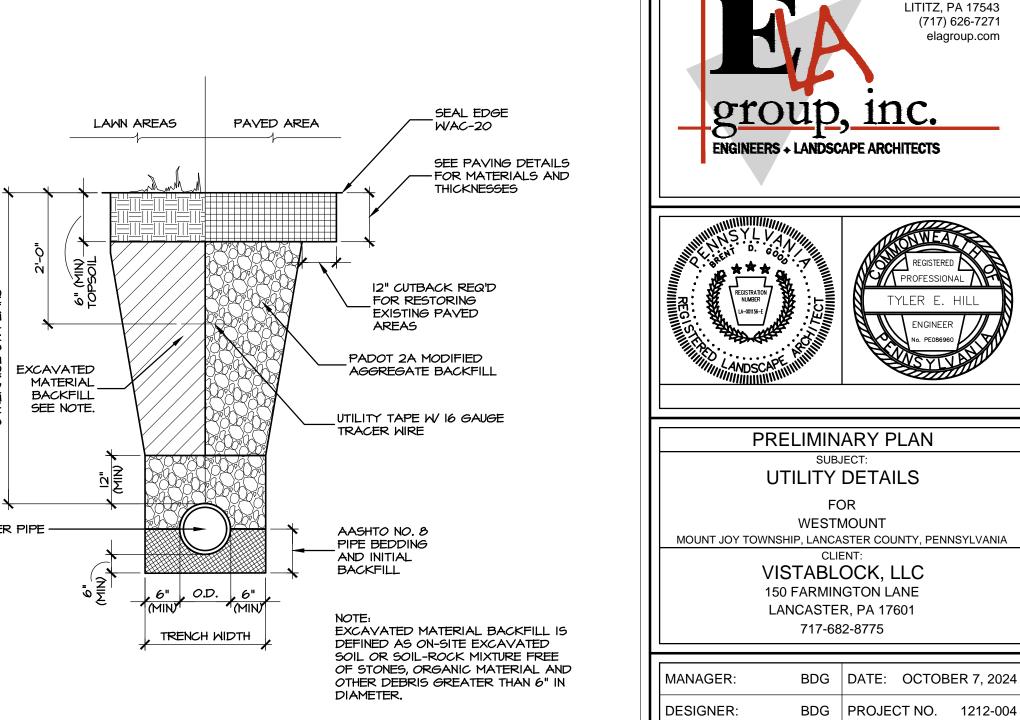
743 S. BROAD ST. LITITZ, PA 17543 (717) 626-7271

elagroup.com









METER PIT WITH FRAME AND LID - I INCH (FOR GRASS/NON-TRAFFIC AREAS)
NO SCALE SMALL DIAMETER WATER LINE TRENCH MATER PIPE INSTALLATION

DRAWN BY BLM | SCALE:

HORIZONTAL RESTRA	AINED PIPE	LENGTH SCH	HEDULE (DUC	TILE IRON PIPE)
PIPE	HORIZON	TAL ELBOW	DEFLECTIO	N ANGLE
DIAMETER	90°	45°	22 l/2°	II I/4°
3" THRU 4"	19'	8'	4'	2'
6"	27'	11'	<b>י</b> ד	3'
8"	35'	14'	8'	4'
10"	42'	17'	ව'	5'
12"	49'	20'	10'	5'

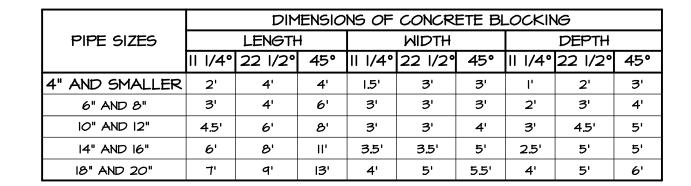
\*ADD 12% TO LENGTH IF PIPE IS POLYETHYLENE ENCASED

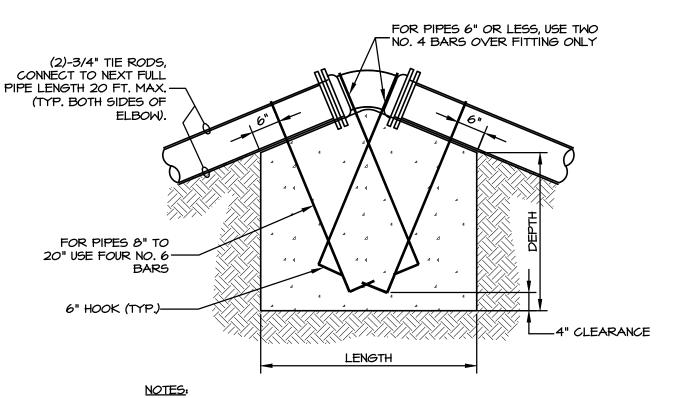
VERTICAL RESTRAINED PIPE LENGTH SCHEDULE (DUCTILE IRON PIPE)					
PIPE	PIPE VERTICAL ELBOW DEFLECTION ANGLE				
DIAMETER	45°	22 l/2°	II I/4°		
3" THRU 4"	20'	10'	5'		
6"	28'	14'	7'		
8"	37'	18'	9'		
10"	44'	21'	II'		
12"	52'	25'	12'		

\*ADD 12% TO LENGTH IF PIPE IS POLYETHYLENE ENCASED

NOTE: FOR PIPE SIZES GREATER THAN 12", SUBMIT ENGINEERING CALCULATIONS TO VERIFY PROPOSED RESTRAINED PIPE LENGTHS.

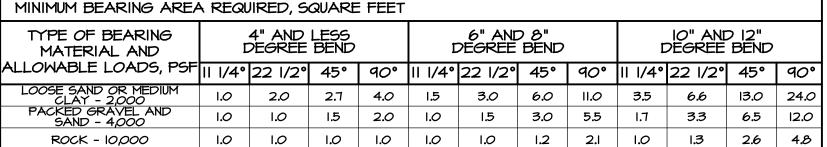
# DUCTILE IRON RESTRAINED PIPE LENGTH SCHEDULE



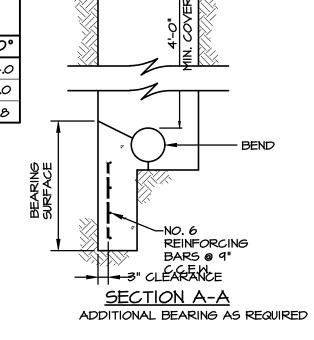


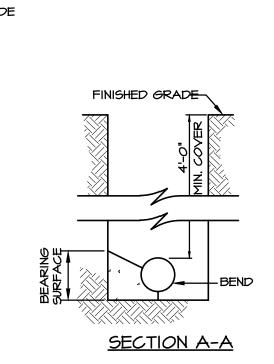
- I. DIMENSIONS OF CONCRETE BLOCKS VERIFIED USING AWMA M41 DUCTILE IRON PIPE AND FITTINGS. ASSUMPTIONS USED FOR CALCULATIONS WERE A WORKING PRESSURE OF 200 PSI AND A SAFETY FACTOR OF
- IF THE OWNER AGREES, TIE RODS MAY BE ELIMINATED PROVIDED ALL JOINTS ARE MECHANICAL JOINT TYPE WITH JOINT RESTRAINT. (MEGALUG BY EBAA IRON SERIES 1100 OR APPROVED EQUAL).
- 3. NO COUPLING OR JOINTS SHALL BE COVERED WITH CONCRETE
- 4. REINFORCING BAR STRAPS TO BE SHAPED TO PIPE CURVATURE.
- 5. ALL EXPOSED STEEL TO BE PAINTED WITH TWO COATS ASPHALTIC
- 6. CONCRETE BEARING SURFACES SHALL BE UNDISTURBED SOIL.

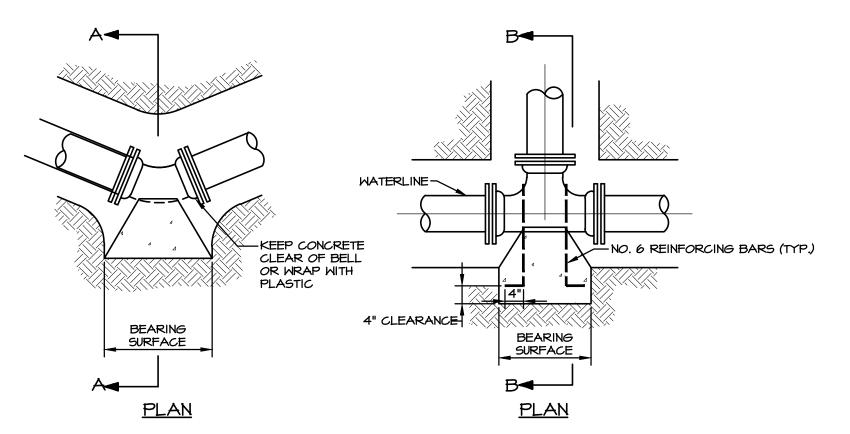
TYPICAL THRUST BLOCKING	
FOR VERTICAL UPWARD THRUSTS  NO SCALE	
NO SCALE	CIV-

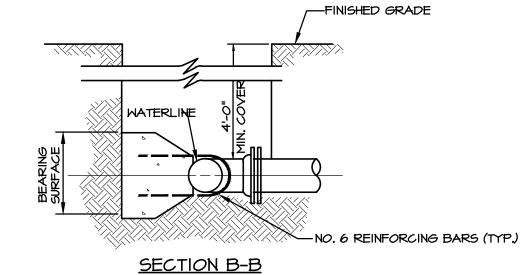


	MINIMUM BEARING AREA REQUIRED, SQUARE FEET								
TYPE OF BEARING MATERIAL AND		14" AND 16" DEGREE BEND OR DEFLECTION				I&" AND 20" DEGREE BEND OR DEFLECTION			
	ALLOWABLE LOADS, PSF	II I/ <del>4</del> °	22 I/2°	45°	90°	II I/4°	22 I/2°	45°	90
	LOOSE SAND OR MEDIUM CLAY - 2,000	6.0	12.0	23.1	42.7	9.5	19.0	37.0	67.0
	PACKED GRAVEL AND SAND - 4,000	3.0	6.0	11.5	21.3	4.8	9.5	18.5	33.
	ROCK - 10,000	1.2	2.4	4.6	8.5	2.0	3.8	7.4	13.5









I. DIMENSIONS OF CONCRETE BLOCKS CALCULATED USING AWWA MANUAL M41 DUCTILE IRON PIPE AND FITTINGS. ASSUMPTIONS USED FOR CALCULATIONS WERE A WORKING PRESSURE OF 150 PSI AND A SAFETY FACTOR OR 2.0. CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE SOIL CONDITION AND MAKE FINAL SELECTION OF BEARING AREA.

2. IF THE OWNER AGREES, TIE RODS MAY BE ELIMINATED PROVIDED ALL JOINTS ARE MECHANICAL JOINT TYPE WITH JOINT RESTRAINT. (MEGALUG BY EBAA IRON SERIES 1100 OR APPROVED EQUAL).

3. THRUST BLOCKING FOR TEES SHALL HAVE THE SAME BEARING AREA AS 90° BENDS OF THE PIPE SIZE OF THE OUTLET. DEAD ENDS SHALL HAVE THE SAME BEARING AS 90°

4. NO COUPLING OR JOINTS SHALL BE COVERED WITH CONCRETE.

5. REINFORCING BAR STRAPS TO BE SHAPED TO PIPE CURVATURE.

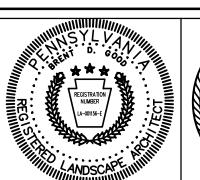
6. ALL EXPOSED STEEL TO BE PAINTED WITH TWO COATS ASPHALTIC PAINT.

7. ALL BEARING SURFACES SHALL BE UNDISTURBED SOIL.

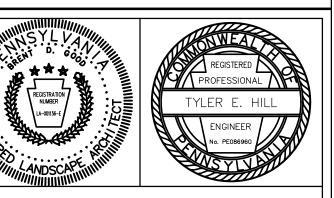
TYPICAL THRUST BLOCKING FOR HORIZONTAL AND VERTICAL DOWNWARD THRUSTS

DATE: BY:





**REVISIONS PER:** 

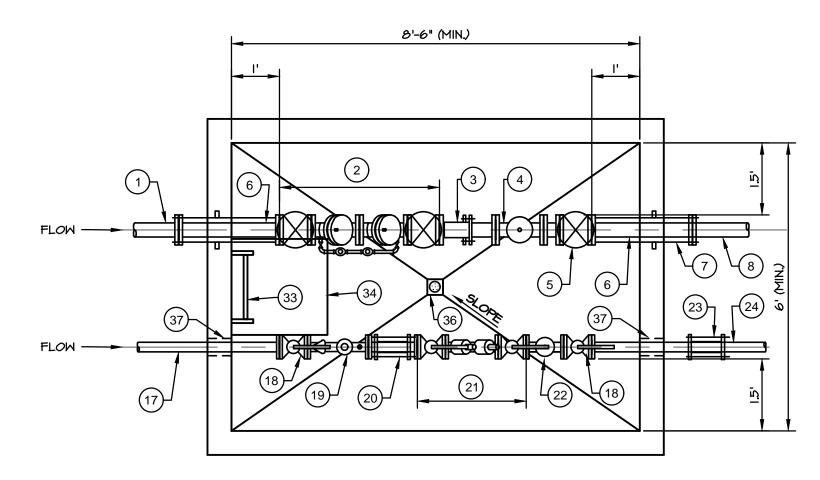


PRELIMINARY PLAN
SUBJECT:
UTILITY DETAILS
FOR
WESTMOUNT
MOUNT JOY TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA
CLIENT:
VISTABLOCK, LLC
150 FARMINGTON LANE
LANCASTER, PA 17601
717-682-8775

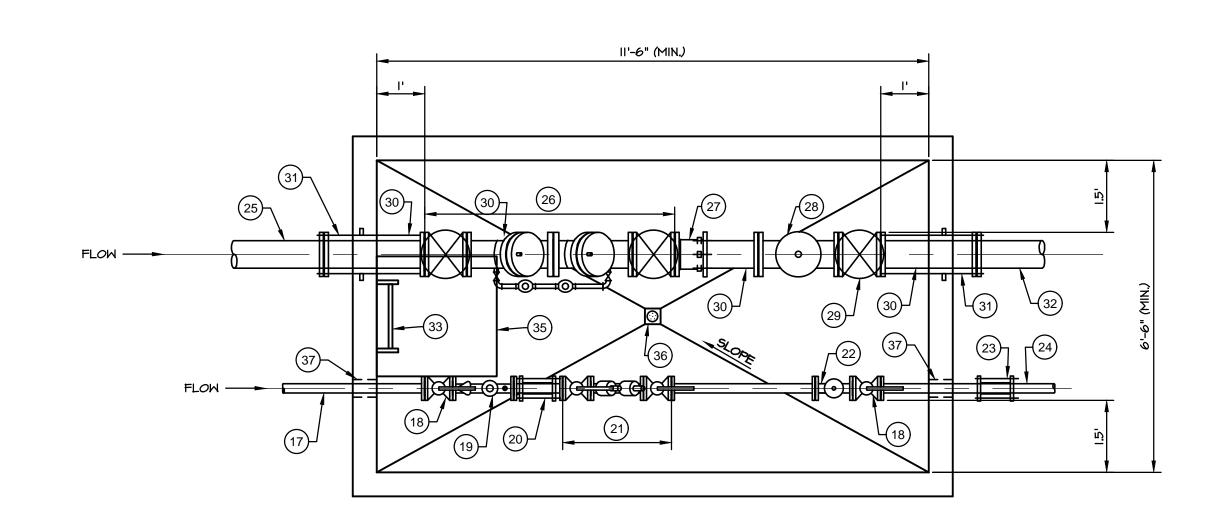
	MANAGER:	BDG	DATE: OCTOBE	ER 7, 2024
	DESIGNER:	BDG	PROJECT NO.	1212-004
	DRAWN BY:	BLM	SCALE:	1" = XX'

DRAWING NO.

# 3" FIRE AND 1.5" DOMESTIC WATER METER PIT SCALE: 1/2"=1'-0"



3" FIRE AND 2" DOMESTIC WATER METER PIT SCALE: 1/2"=1'-0"



# 6" FIRE AND 2" DOMESTIC WATER METER PIT

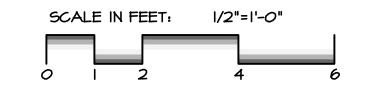
SCALE: 1/2"=1'-0"

ITEM NO.	DESCRIPTION	SIZE/ DIMENSION	ELEVATION
1	DICL CL-52	3"	
2	WATTS 709 DCDA	3"	-
3	FLANGED ADAPTER	3"	-
4	PRESSURE REDUCING VALVE	3"	-
5	GATE VALVE	3"	-
6	DICL CL-53	3"	
٦	RODDED THRU WALL OR OMNI SLEEVE WITH MEG-A-LUG JOINT RESTRAINT (CL-53 OR CL-54)	3"	
8	PE SDR-9	3"	
9	TYPE K COPPER	1.5"	
10	BALL VALVE	1.5"	-
Ш	SENSUS OMNI C2 METER	1.5"	-
12	ROMAC 511 COUPLING ON COPPER SPOOL PIECE	1.5"	
13	WATTS 719 QT DCVA	1.5"	-
14	PRESSURE REDUCING VALVE	1.5"	-
15	TRANSITION COUPLING	1.5"	
16	PE SDR-9	1.5"	
17	TYPE K COPPER	2"	
18	BALL VALVE	2"	-
19	SENSUS OMNI C2 METER	2"	-
20	ROMAC 511 COUPLING ON COPPER SPOOL PIECE	2"	

ITEM NO.	DESCRIPTION	SIZE/ DIMENSION	ELEVATION
21	WATTS 719 QT DCVA	2"	-
22	PRESSURE REDUCING VALVE	2"	-
23	TRANSITION COUPLING	2"	
24	PE SDR-9	2"	
25	DICL CL-52	6"	
26	WATTS 709 DCDA	6"	-
27	FLANGED ADAPTER	6"	-
28	PRESSURE REDUCING VALVE	6"	-
29	GATE VALVE	6"	-
30	DICL CL-53	6"	
31	RODDED THRU WALLOR OMNI SLEEVE WITH MEG-A-LUG JOINT RESTRAINT (CL-53 OR CL-54)	6"	
32	PVC C-900 DR-18	6"	
33	ALUMINUM LADDER WITH BUILT-IN TELESCOPING SAFETY POST	-	-
34	SQUARE ACCESS HATCH	24"X24"	
35	SQUARE ACCESS HATCH	30"X30"	
36	FLOOR DRAIN WITH 4" BACKFLOW VALVE (SEE NOTE I)	-	
37	LINK SEAL	-	

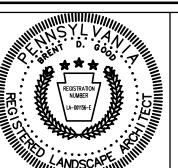
### NOTES:

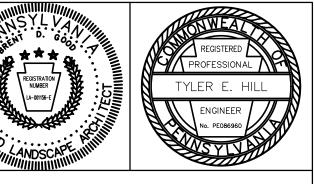
- FLOOR DRAIN SHALL DISCHARGE TO A 3' SQUARE BY 18" DEEP STONE SUMP (AASHTO #57).
- 2. INTERNAL PIPING SHALL BE SUPPORTED BY STANDON MODEL S&9 PIPE SUPPORTS. SUPPORTS SHALL BE PLACED EVERY 4' AND NOT BE PLACED ON WORKING/MOVING COMPONENTS OF THE INSTALLED APPURTENANCES. A MINIMUM OF TWO SUPPORTS SHALL BE PROVIDED FOR EACH LINE.
- 3. EXTERIOR COATING OF COOPERS CREEK C4-SP BITUMASTIC WATERPROOFING SHALL BE APPLIED TO ENTIRE EXTERIOR.
- 4. INTERIOR SHALL HAVE COATING OF COOPERS CREEK BREATHABLE WHITE ENAMEL EPOXY.
- ALL METER PITS SHALL HAVE AT LEAST A 12" RISER FOR THE ACCESS HATCH.
- VAULT MANUFACTURER WILL DETERMINE THE FINAL SIZE OF THE METER VAULT.
- SPOOL PIECES MATCHING THE LENGTHS OF EACH METER DEPICTED SHALL BE PROVIDED AND SHALL BE INSTALLED PRIOR TO THE FURNISHING OF THE METER BY THE WATER AUTHORITY.
- 8. INSIDE HEIGHT OF METER PIT SHALL BE A MINIMUM OF 5'.



REVISIONS PER:	DATE:	BY:
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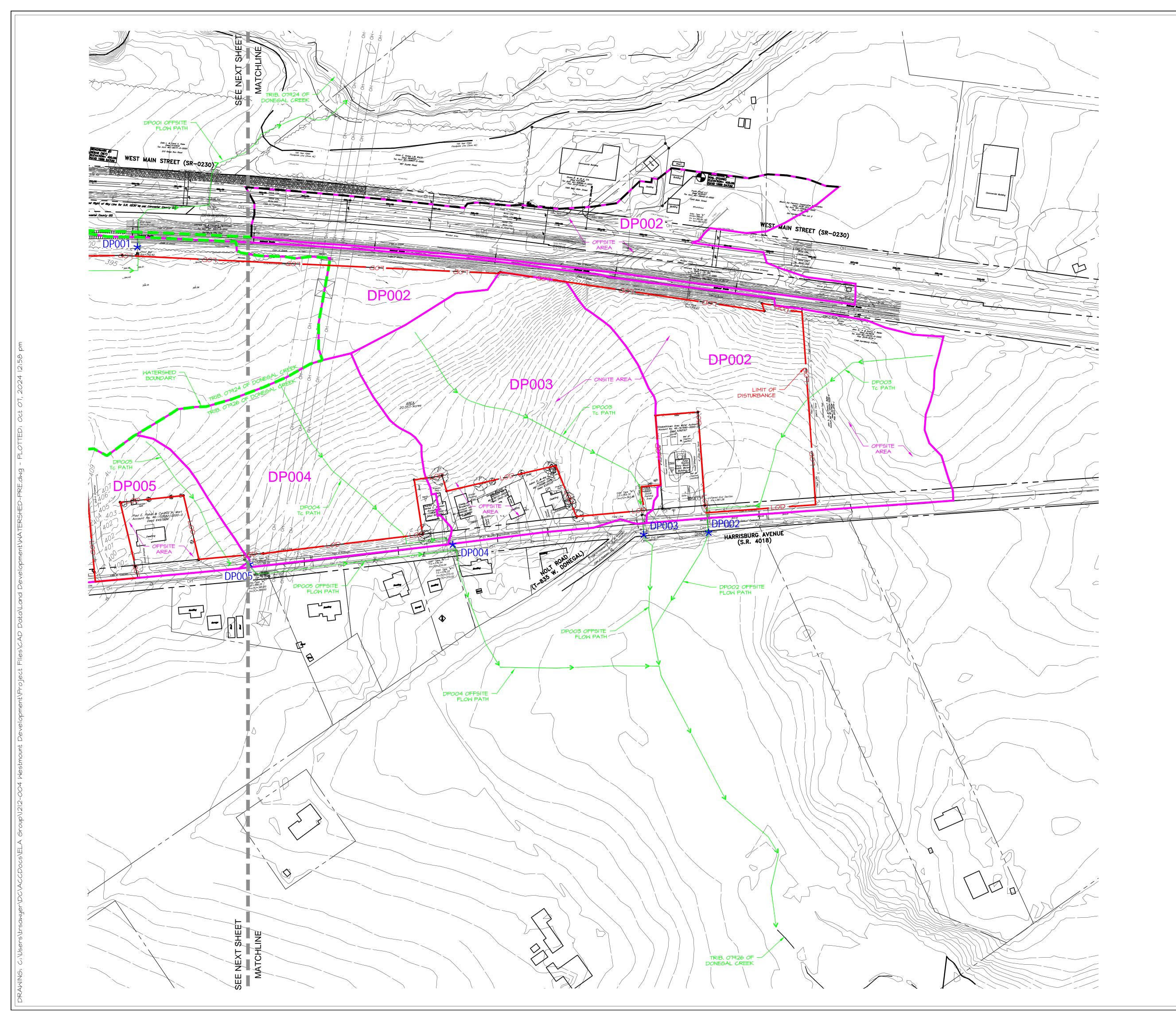


PRELIMINARY PLAN
SUBJECT:
WATER METER PITS
FOR
WESTMOUNT
OY TOWNSHIP, LANCASTER COUNTY, PENNSYLVA
CLIENT:

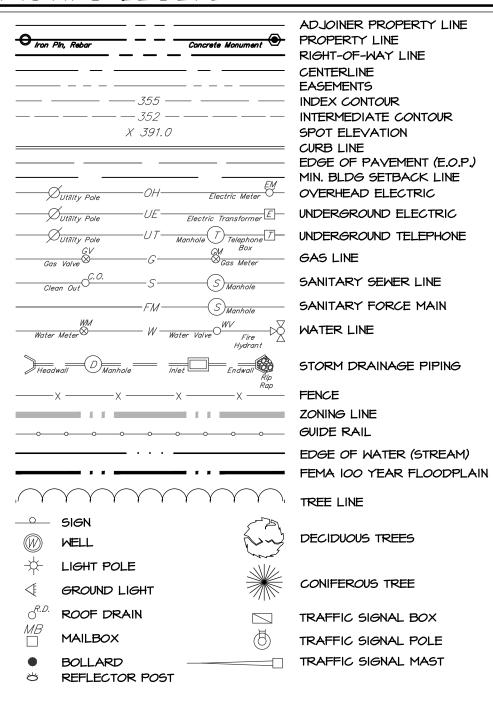
VISTABLOCK, LLC 150 FARMINGTON LANE LANCASTER, PA 17601 717-682-8775

MANAGER:	BDG	DATE: OCTO	BER 7, 2024
DESIGNER:	BDG	PROJECT NO.	1212-004
DRAWN BY:	BLM	SCALE:	1/2"=1'-0"

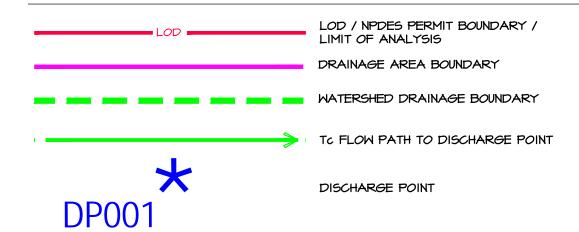
DRAWING NO. 82 of 86

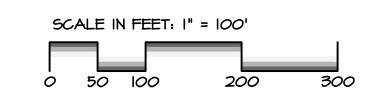


# EXISTING LEGEND



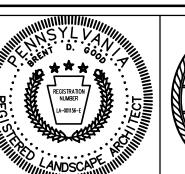
# WATERSHED MAPPING LEGEND

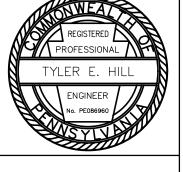




REVISIONS PER:	DATE:	BY:
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-







PRELIMINARY PLAN SUBJECT:
PRE CONSTRUCTION WATERSHED MAP 'A' WESTMOUNT
MOUNT JOY TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA

CLIENT:
VISTABLOCK, LLC
150 FARMINGTON LANE

LANCASTER, PA 17601 717-682-8775

	l	MANAGER:	BDG	DATE: OCTO	BER 7, 2024
		DESIGNER:	BDG	PROJECT NO.	1212-004
		DRAWN BY:	BLM	SCALE:	1" = XX'

B3 of 86

