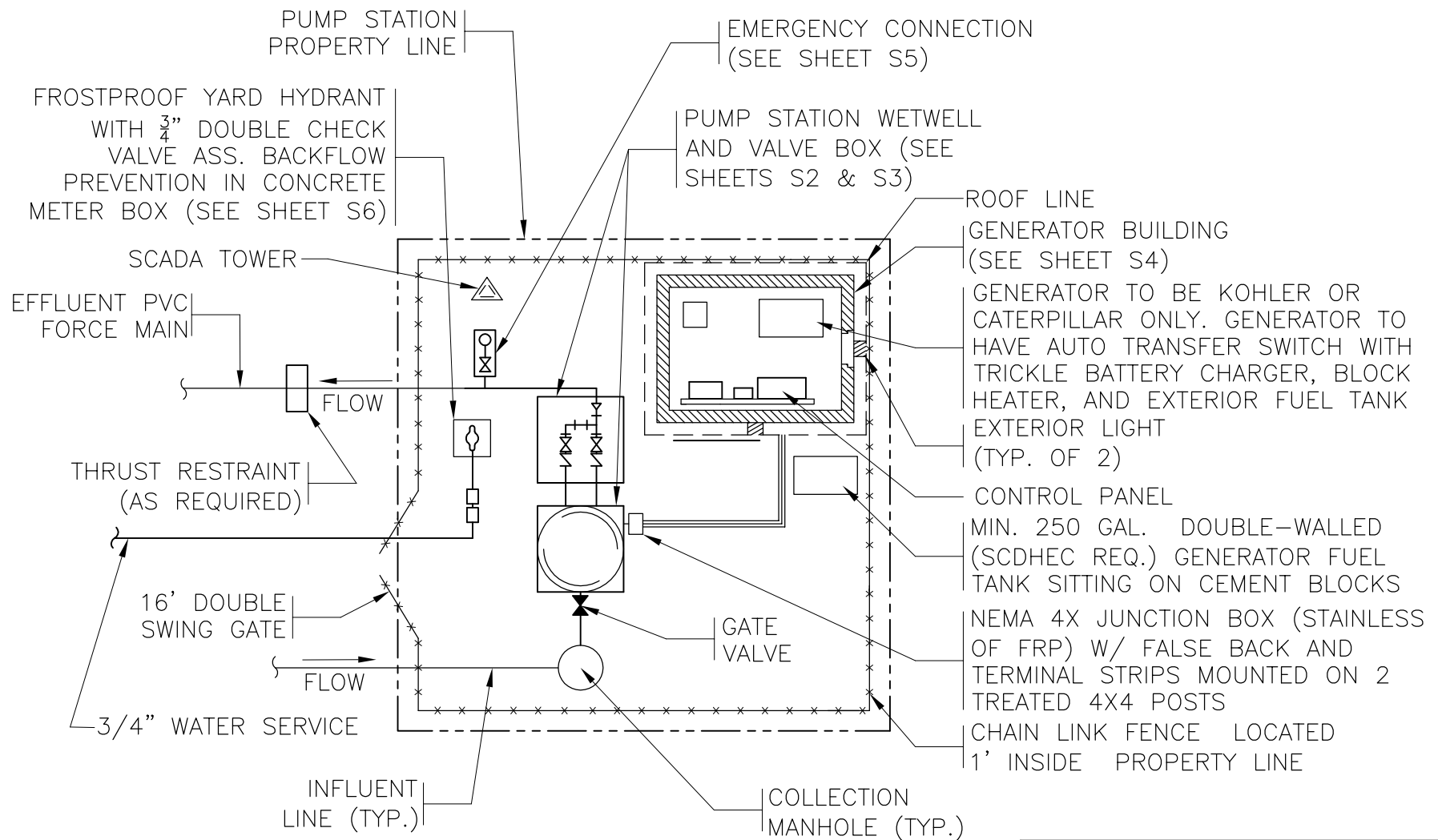




NOTES:

1. SIZE OF PROPERTY DETERMINED BY LCW&SD WITH 15' WIDE ACCESS ROAD (8" THICK SABC MIN. OR HEAVY DUTY ASPHALT AS REQUIRED PER LCW&SD)
2. LOCATION OF GATES AND ACCESS DRIVE TO BE DETERMINED BY LCW&SD
3. ENGINEER SHALL ADAPT THIS SITE PLAN AS NECESSARY
4. DIRECT ACCESS TO WETWELL AND TURN AROUND SHALL BE REQUIRED FOR VACUUM TRUCK.

PUMP STATION OVERALL SITE PLAN

N.T.S.

LANCASTER COUNTY WATER
& SEWER DISTRICT

LAYOUT TITLE:

PUMP STATION OVERALL
SITE PLAN (TYPICAL)

CATEGORY:

SEWER

DATE:

08/23

SCALE:

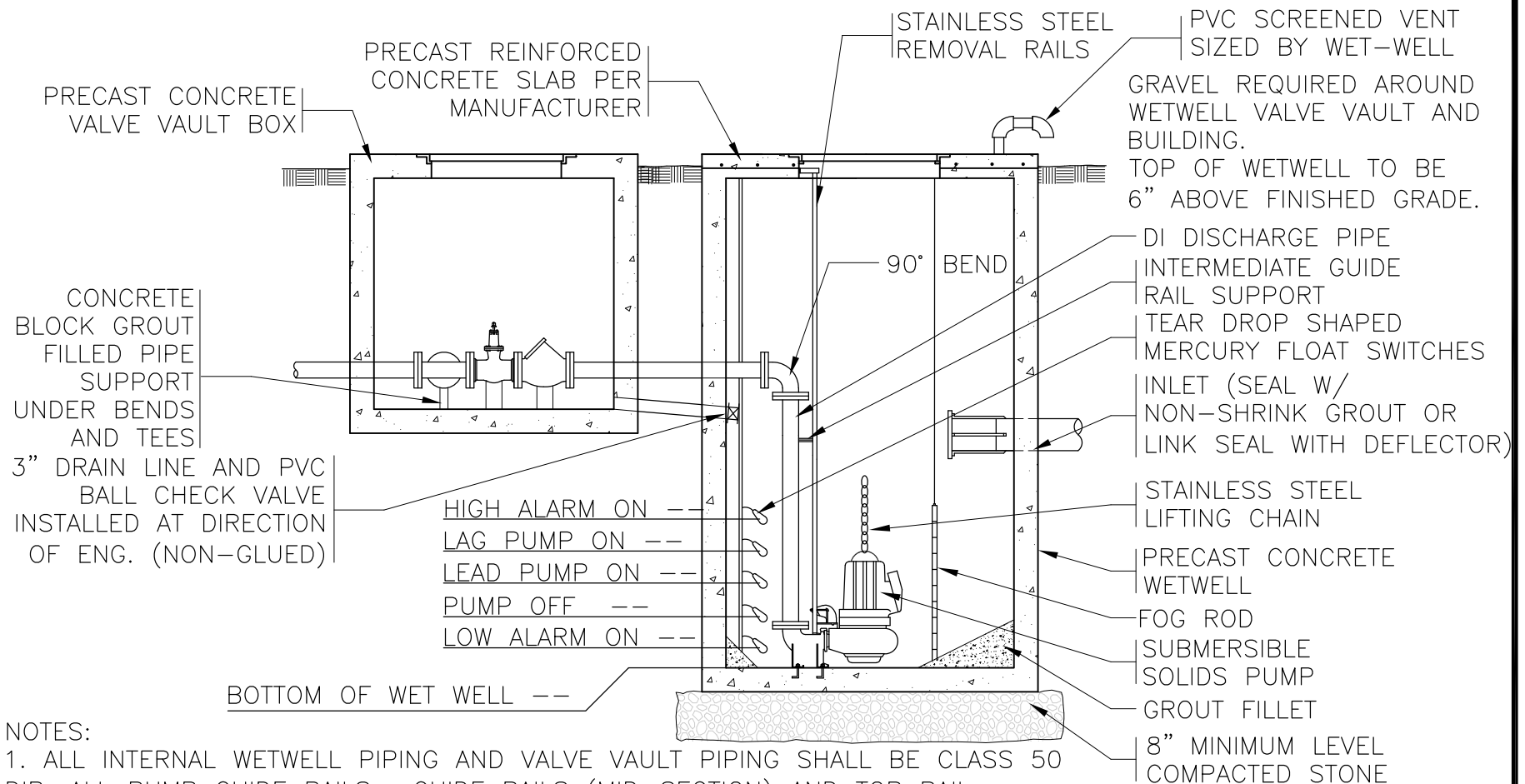
NONE

DETAIL SHORTNAME:

PSSITE

SHEET

S1



NOTES:

1. ALL INTERNAL WETWELL PIPING AND VALVE VAULT PIPING SHALL BE CLASS 50 DIP. ALL PUMP GUIDE RAILS, GUIDE RAILS (MID-SECTION) AND TOP RAIL GUIDES ARE TO BE STAINLESS STEEL. ALL DUCTILE IRON PIPE TO BE LINED. ALL NUTS, BOLTS AND WASHERS TO BE 316 STAINLESS STEEL.
2. CONTRACTOR SHALL INSTALL PUMP DISCHARGE PIPING AND PUMP GUIDE RAILS PLUMB AND LEVEL FOR EASE OF PUMP REMOVAL. EACH PUMP SHALL BE REMOVED AND REINSTALLED IN THE PRESENCE OF THE ENGINEER, OWNER AND DISTRICT INSPECTOR TO DEMONSTRATE PERFORMANCE.
3. WETWELL TO BE SEALED AT ALL JOINTS INSIDE AND OUTSIDE. WETWELL SHALL BE TESTED FOR LEAKAGE AND SHALL NOT EXCEED 1" OF WETWELL DEPTH IN 24 HOURS.
4. AT CONTRACTOR'S EXPENSE, PUMP DRAWDOWN TEST SHALL BE CONDUCTED FOR EACH PUMP IN THE PRESENCE OF THE ENGINEER, OWNER AND THE DISTRICT INSPECTOR. AT CONTRACTOR'S EXPENSE, OPERATION OF ALL ELECTRICAL CONTROLS, INCLUDING STAND-BY GENERATOR, SHALL BE DEMONSTRATED IN THE PRESENCE OF THE ENGINEER, OWNER AND THE DISTRICT INSPECTOR.

SUBMERSIBLE PUMP STATION ILLUSTRATIVE VIEW

N.T.S.

LANCASTER COUNTY WATER
& SEWER DISTRICT

LAYOUT TITLE:

PUMP STATION OVERALL
SECTION VIEW (TYPICAL)

CATEGORY:

SEWER

DATE:

08/23

SCALE:

NONE

DETAIL SHORTNAME:

PSSEC

SHEET

S2

ALUMINUM HATCH WITH HOLD-OPEN
DEVICE WITH GUTTER (WATER)

HASP FOR
PADLOCK

ALUMINUM HATCH WITH HOLD-OPEN DEVICE
CAST IN WETWELL TOP SECTION CENTERED
OVER PUMPS FOR SLIDE RAIL OPERATION

HASP FOR
PADLOCK

SCREENED VENT
SIZE DETERMINED BY
SIZE OF WET-WELL

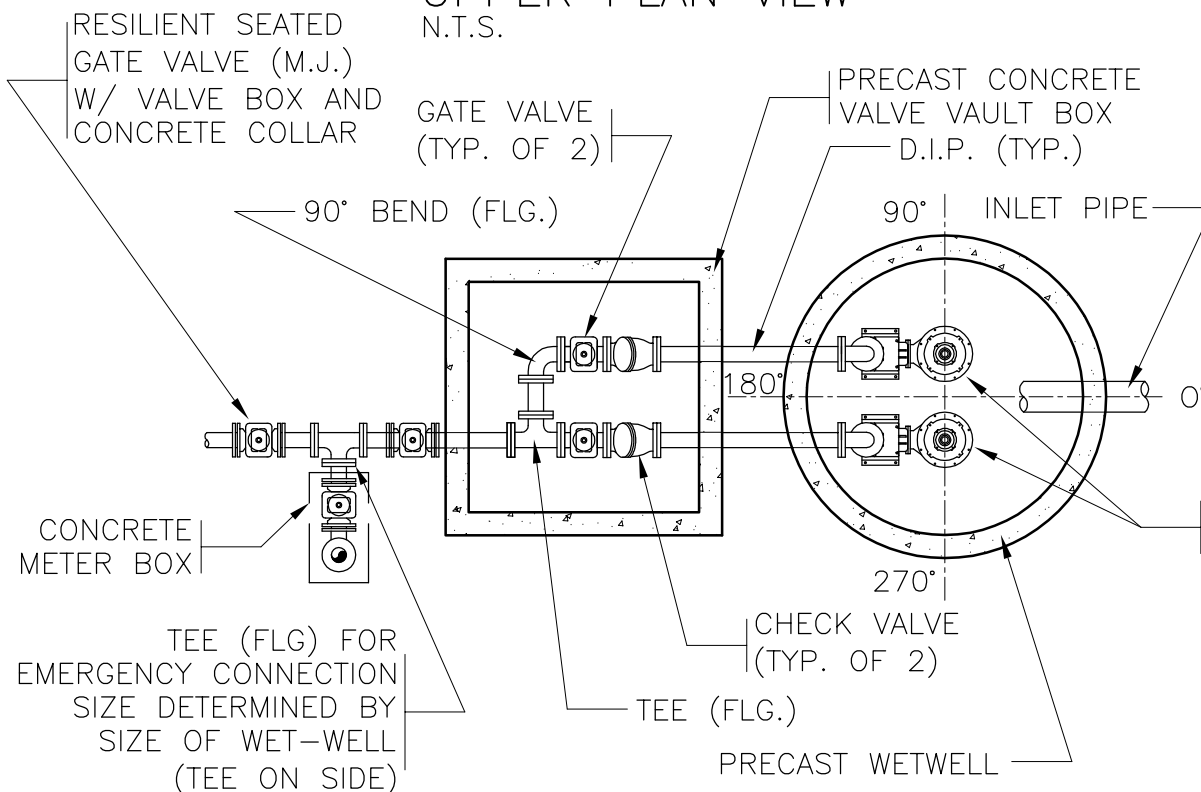
PRECAST CONCRETE
VALVE VAULT BOX

PRECAST
CONCRETE SLAB

SUBMERSIBLE PUMP STATION UPPER PLAN VIEW N.T.S.

NOTES:

1. ALL PIPES, VALVES, BENDS AND TEES WILL BE SIZED ACCORDING TO THE SIZE OF THE PUMPS
2. SIZES FOR THE ALUMINUM HATCHES WILL BE DETERMINED BY PUMP SIZES
3. CHECK VALVE WILL BE MUELLER SWING CHECK VALVE WITH EXTERNAL LEVER AND WEIGHT FOR SEWAGE SERVICE. TAP C/V UDS $\frac{1}{4}$ " NPT WITH $\frac{1}{4}$ " PETCOCK VALVE AND ISOLATION SEAL.



SUBMERSIBLE PUMP STATION BOTTOM PLAN VIEW N.T.S.

LANCASTER COUNTY WATER
& SEWER DISTRICT

LAYOUT TITLE:

PUMP STATION
PLAN VIEW (TYPICAL)

CATEGORY:

SEWER

DATE:

08/23

SCALE:

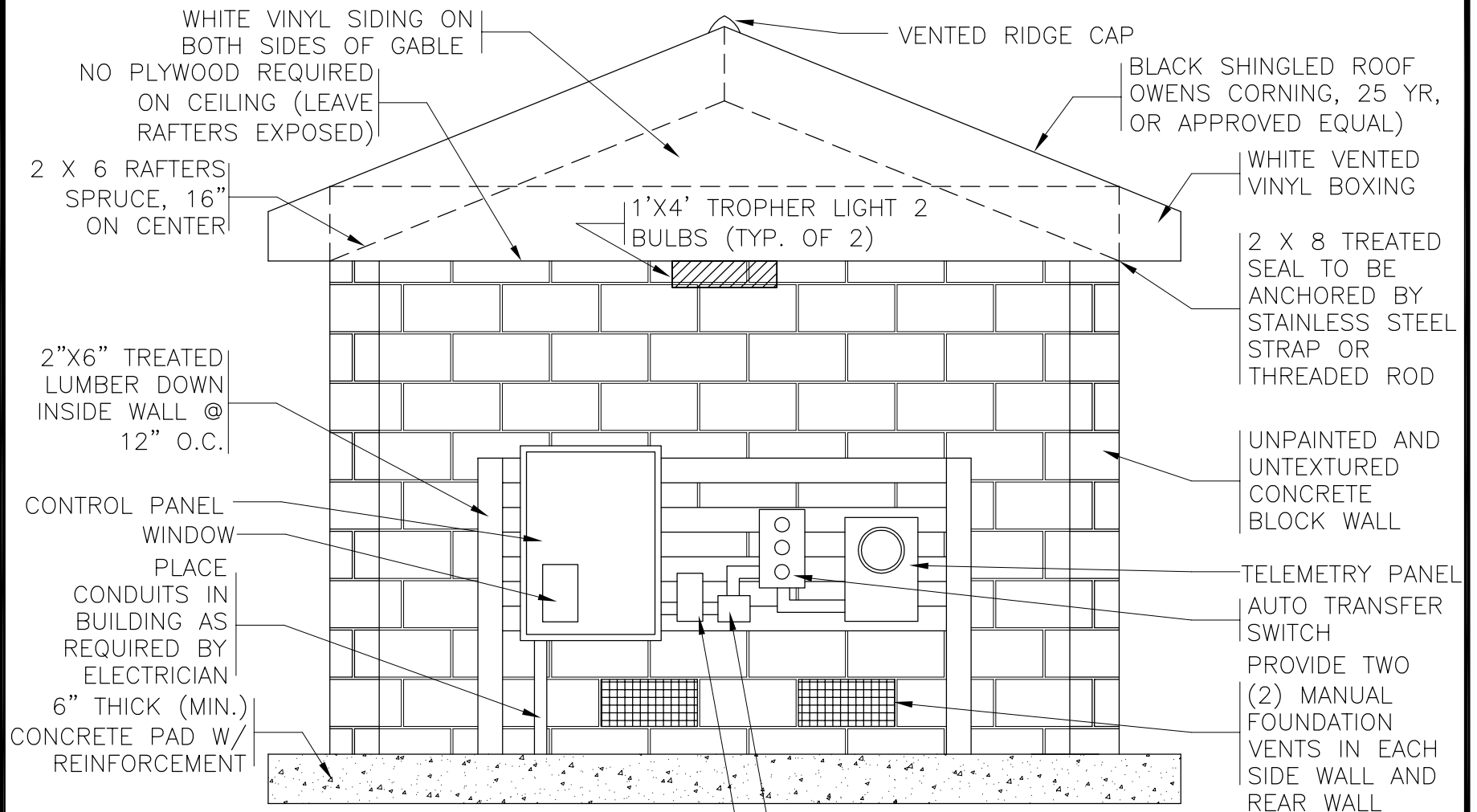
NONE

DETAIL SHORTNAME:

PSPLAN

SHEET

S3



NOTE:

1. BUILDING SIZE AND CONTROL PANEL SIZE TO BE DETERMINED BY GENERATOR SIZE AND ELECTRICAL CODE REQUIREMENTS (NOT TO EXCEED 400 SQ FT).
2. DOUBLE DOORS TO BE 3' METAL, 6' TOTAL OPENING W/ 2 ALUMINUM LOUVERS IN EACH DOOR.
3. INSIDE OF BUILDING TO HAVE 2 SETS OF 8" FLOOD LIGHTS AND ONE 110 RECEPTACLE ON EACH WALL (TYP. OF 2).
4. ELECTRICAL CONTRACTOR TO DUCT SEAL INSIDE THE JUNCTION BOX TO PREVENT GASES FROM ENTERING THE CONTROL PANEL AND JUNCTION BOX.
5. LIGHT PACK SHALL BE INSTALLED OVER ENTRANCE DOORS AND ONE INSTALLED TO ILLUMINATE OVER WETWELL AND VALVE VAULT.
6. SOIL COMPACTION TESTS REQUIRED FOR EACH LIFT OF FILL PLACED IN BUILDING PAD.

GENERATOR BUILDING

N.T.S.

LANCASTER COUNTY WATER
& SEWER DISTRICT

LAYOUT TITLE:

PUMP STATION GENERATOR
BUILDING (TYPICAL)

CATEGORY:

SEWER

DATE:

08/23

SCALE:

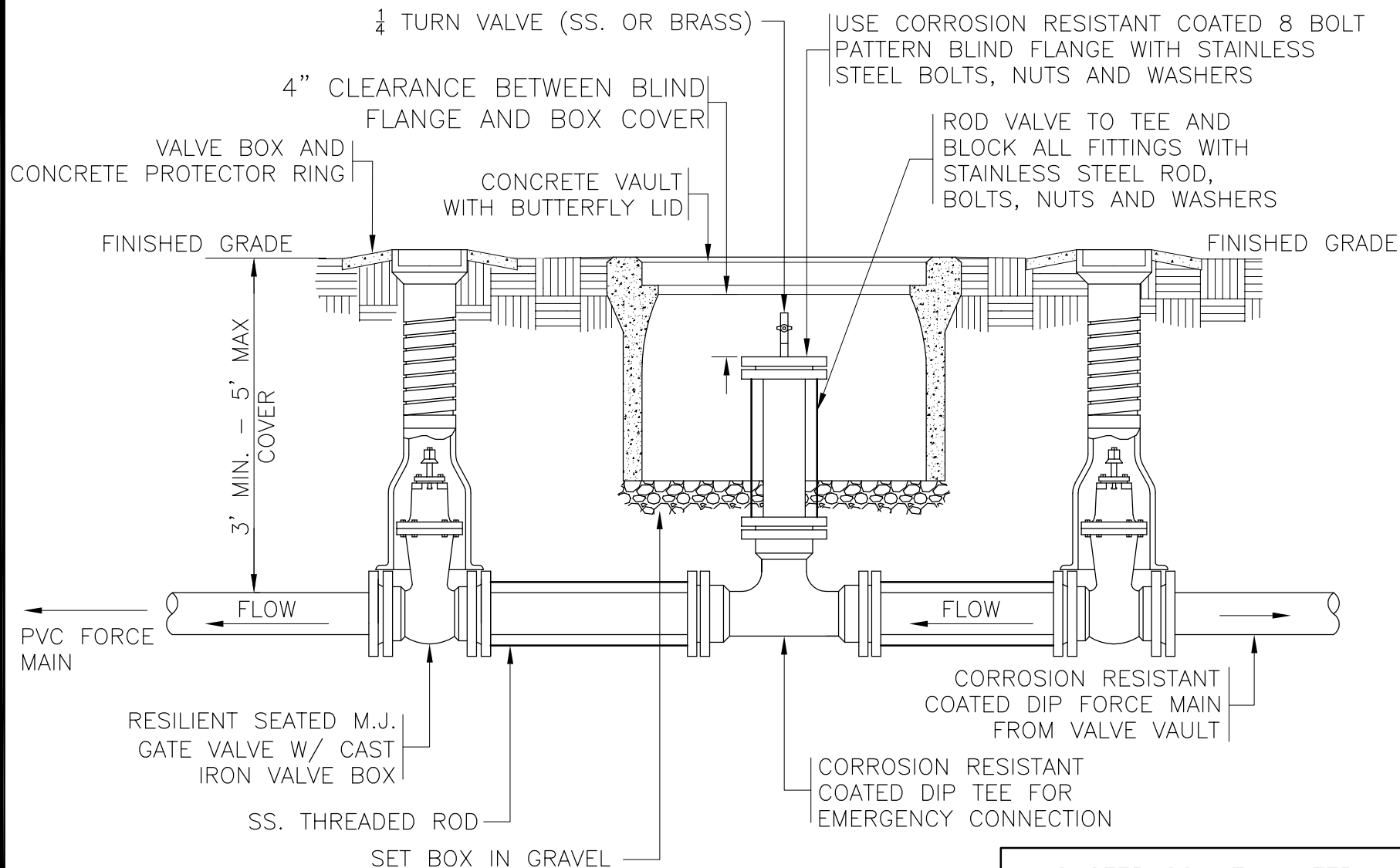
NONE

DETAIL SHORTNAME:

PSBLDG

SHEET

S4



NOTE:

1. COATED DIP TEE SHALL BE THE SAME AS THE FORCE MAIN
2. EMERGENCY CONNECTION TO BE SAME SIZE AS WET WELL PIPING.

EMERGENCY CONNECTION
N.T.S.

LANCASTER COUNTY WATER
& SEWER DISTRICT

LAYOUT TITLE:

EMERGENCY CONNECTION
DETAIL

CATEGORY:

SEWER

DATE:

08/23

SCALE:

NONE

DETAIL SHORTNAME:

EMCON

SHEET

S5

PUMP STATION YARD HYDRANT DETAIL N.T.S.

TYP. PUMP STATION
FENCE POST AND
FENCING

AS REQUIRED

FREEZELESS YARD HYDRANT
ASSEMBLY IOWA MODEL Y34
OR Y1 OR APPROVED
EQUAL (MOUNT HYDRANT TO
CONCRETE MARKER POLE)

$\frac{3}{4}$ " FEBCO OR WATTS DOUBLE
CHECK VALVE ASSEMBLY

$\frac{3}{4}$ " BALL VALVE
(AWWA APPROVED)

HOT BOX

CONCRETE
METER
BOX

PUMP STATION
SITE GRADE

CONCRETE SPLASH PAD
(24"X24"X4" THICK)

6" MIN.

3'

1' MIN.

CONCRETE MARKER
POLE

2 CU. FT. #57 WASH
STONE UNDER AND
AROUND WEEP HOLE

#57 WASH STONE OR PEA
GRAVEL FOR DRAINAGE

6"

$\frac{3}{4}$ " METER YOKE
FOR WATER
METER INSTALLED
INSIDE FENCELINE

$\frac{3}{4}$ " WATER SERVICE
FROM STREET MAIN
AT 3' MIN DEPTH

NOTE:

1. DOUBLE CHECK VALVE TO BE INSPECTED BY A SC LICENSED CERTIFIED TESTER AT CONTRACTOR'S EXPENSE.
2. WATTS OR FEBCO DOUBLE CHECK VALVE ASSEMBLY SHALL HAVE TEST PORTS FOR ALL FUTURE TESTING.

LANCASTER COUNTY WATER
& SEWER DISTRICT

LAYOUT TITLE:

PUMP STATION YARD
HYDRANT DETAIL

CATEGORY:

SEWER

DATE:

08/23

SCALE:

NONE

DETAIL SHORTNAME:

YDHYD

SHEET

S6

1. SCADA TELEMETRY SYSTEM TO BE INSTALLED BY LCW&SD AT THE CONTRACTOR'S EXPENSE. ENTIRE SYSTEM TO BE SUPPLIED AND CONSTRUCTED BY LANCASTER COUNTY WATER & SEWER DISTRICT (LCW&SD). ELECTRICIAN TO SUPPLY LCW&SD WITH 1-20 AMP BREAKER IN BREAKER BOX LABELED SOLELY FOR SCADA SYSTEM. CONTRACTOR TO INSTALL FIRST 10' SECTION OF TOWER SECTION BY LCW&SD'S SPECIFICATIONS. THIS INSTALLATION IS TO BE MADE A PART OF THE CONSTRUCTION PROCESS FOR THE STATION.
 2. DESIGN SHOWN IS INTENDED AS A TYPICAL LAYOUT. ACTUAL LAYOUT MAY VARY IN DIMENSION BUT SHALL REMAIN OTHERWISE SIMILAR. ACTUAL SITE PLAN SHALL BE SUBMITTED TO LANCASTER COUNTY WATER AND SEWER FOR APPROVAL.
 3. ALL FITTINGS IN WET WELL AND VALVE VAULT SHALL BE INTERIORLY COATED FOR HYDROGEN SULFIDE PROTECTION AND SHALL BE FLANGED AND SECURED WITH STAINLESS BOLTS, NUTS, & WASHERS.
 4. PUMP STATION SHALL MEET ALL LCW&SD SPECS.
 5. CONTRACTOR TO SUPPLY MANUFACTURER WITH ALL LCW&SD SPECS FOR ORDERING.
 6. OUTSIDE LIGHT(S) SHALL BE INSTALLED ACCORDING TO LCW&SD SPECS.
 7. STAND BY GENERATOR SHALL MEET LCW&SD STANDARDS.
 8. THE ELECTRICAL SERVICE SHALL BE IN ACCORDANCE WITH LCW&SD STANDARD SPECIFICATIONS. SHOP DRAWINGS SHALL BE PROPERLY SUBMITTED FOR APPROVAL.
 9. THE ACCESS DRIVE TO THE PUMP STATION SHALL BE ALL WEATHER AND ACCESSIBLE BY A LCW&SD CRANE TRUCK. THE EASEMENT FOR DRIVEWAY TO BE A MINIMUM OF 25' IN WIDTH. THE ACCESS DRIVE MAY BE REQUIRED TO BE HEAVY DUTY ASPHALT PER LCW&SD DUE TO PROPOSED CONDITIONS
 10. 2" CONDUIT SHALL EXTEND FROM WET WELL TO JUNCTION BOX AND CONTROL PANEL FOR ALL PUMPS AND FLOAT SWITCHES.
 11. ALL EXTERIOR CONDUIT AND CONNECTORS/HARDWARE TO BE RIGID PVC COATED.
 12. ALL CONCRETE ANCHORS SHALL BE 316 STAINLESS STEEL.
 13. CONTROL PANEL TO BE PURCHASED THROUGH PUMP SUPPLIER.
 14. LCW&SD USES AN 5 FLOAT SYSTEM. THE LOW FLOAT SHALL TURN OFF ALL PUMPS IN AUTOMATIC ONCE ACTIVATED. THERE SHALL BE A LOW AND HIGH CONTACT FOR THE SCADA SYSTEM TO BE ABLE TO MONITOR FOR EACH.
 15. PROVIDE CONTROL PANEL WIRING DETAILS FOR REVIEW INCLUDING INTER-CONNECTION DIAGRAM OF ELECTRICAL DRAWINGS.
 16. WET WELL AND VALVE VAULT SHALL HAVE SOLID ALUMINUM DIAMOND PLATE LIDS WITH SPRING ASSIST IF MORE THAN 50LBS. LIFTING WEIGHT. LIDS SHALL INCLUDE RECESSED LIFTING HANDLE AND SECURITY LATCH/LOCK AND FACTORY INSTALLED SAFETY SLIDE BARS TO HOLD LIDS VERTICALLY OPEN, LIDS TO BE COMPLETE WITH ALUMINUM FRAME TO BE MOUNTED IN CONCRETE TOP SLABS OF WET WELL AND VALVE VAULT.
 17. ALL SETS OF LIDS ARE TO BE LARGE ENOUGH TO PULL PUMPS STRAIGHT OUT OF WET WELL AND HAVE FULL VERTICAL ACCESS TO CHECK AND GATE VALVES.
 18. TOP SLABS OF WET WELL AND VAULT TO BE 6 INCHES ABOVE GRADE.
 19. CHECK VALVES ARE TO BE ARM WITH WEIGHT TYPE. THE TEE IN VALVE VAULT IS TO BE 12 X 12 X 12 INCH WITH THE 12 INCH AT THE DISCHARGE POINT OF THE TEE TO CONNECT TO THE FORCE MAIN.
 20. THE VALVE VAULT IS TO BE ONE PIECE (WALLS AND FLOOR) PREFABRICATED OR POURED IN PLACE. THE VAULT IS TO BE LARGE ENOUGH TO PROVIDE 12 INCH MINIMUM CLEARANCE BETWEEN THE VALVES AND WALLS AND 30 INCH CLEARANCE BETWEEN VALVES.
 21. THE DISCHARGE PIPES ARE TO BE SOLID (ONE PIECE) FROM THE 90 DEGREE ELBOW IN THE WET WELL TO INSIDE OF VALVE(6 FOOT FLANGED SPOOL SHOULD BE LONG ENOUGH). USE A MEG-A-FLANGE CONNECTOR IN THE VALVE VAULT TO CONNECT THE PIPE END OF THE SPOOL TO THE CHECK VALVES. PIPES INSIDE AND OUTSIDE OF THE WET WELL AND VAULT SHALL BE SEALED WITH NON-SHRINK GROUT OR LINK SEAL.
 22. LIGHT PACKS SHALL BE INSTALLED AT OUTSIDE DOOR AND AT WET WELL AND WIRED TO ONE PHOTOCCELL.
 23. PROVIDE 2" WATERLINE GUARD VALVE WITH SQUARE HEAD FITTINGS AT TAP. REDUCE LINE TO 3/4" AT BACKSIDE OF VALVE. (FOR YARD HYDRANT SUPPLY). ALL YARD HYDRANTS SHALL BE METERED WITH A STANDARD LCW&SD METER SERVICE AS A NORMAL RESIDENTIAL CUSTOMER AT CONTRACTOR'S EXPENSE.
 24. PUMP STATION LOT GRADE TO BE 1' ABOVE HIGHEST GRADE AT 1' OUTSIDE OF THE FENCE TO PREVENT OFF LOT DRAINAGE FROM ENTERING THE PUMP STATION LOT.
- (NOTE FOR ENGINEER)- TYPICAL PUMP PERFORMANCE CURVE SHALL BE SHOWN ON THE DRAWINGS AND SHALL INCLUDE PROPOSED GPM, TDH, AND HP.

LANCASTER COUNTY WATER & SEWER DISTRICT

LAYOUT TITLE:

PUMP STATION NOTES

CATEGORY:

SEWER

DATE:

08/23

SCALE:

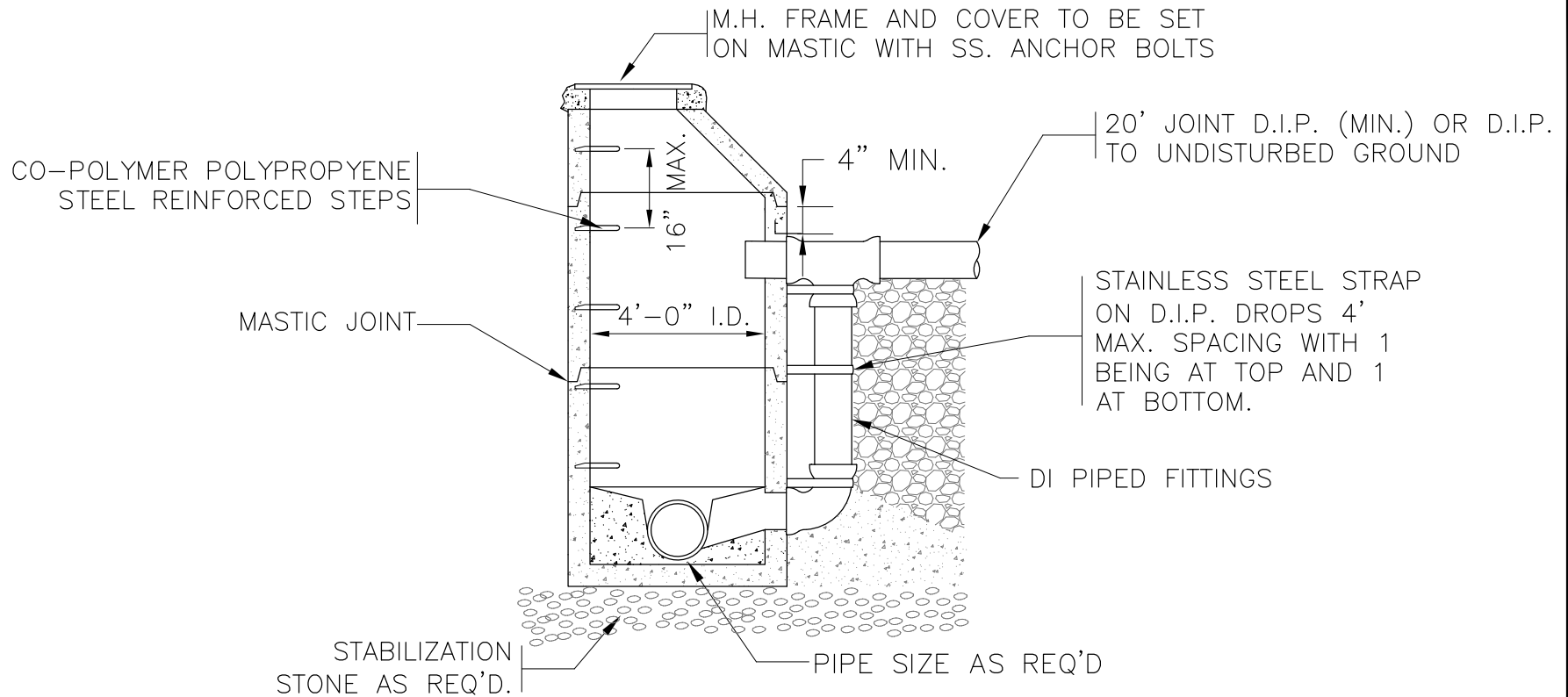
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DETAIL SHORTNAME:

PSNOTES

SHEET

S7

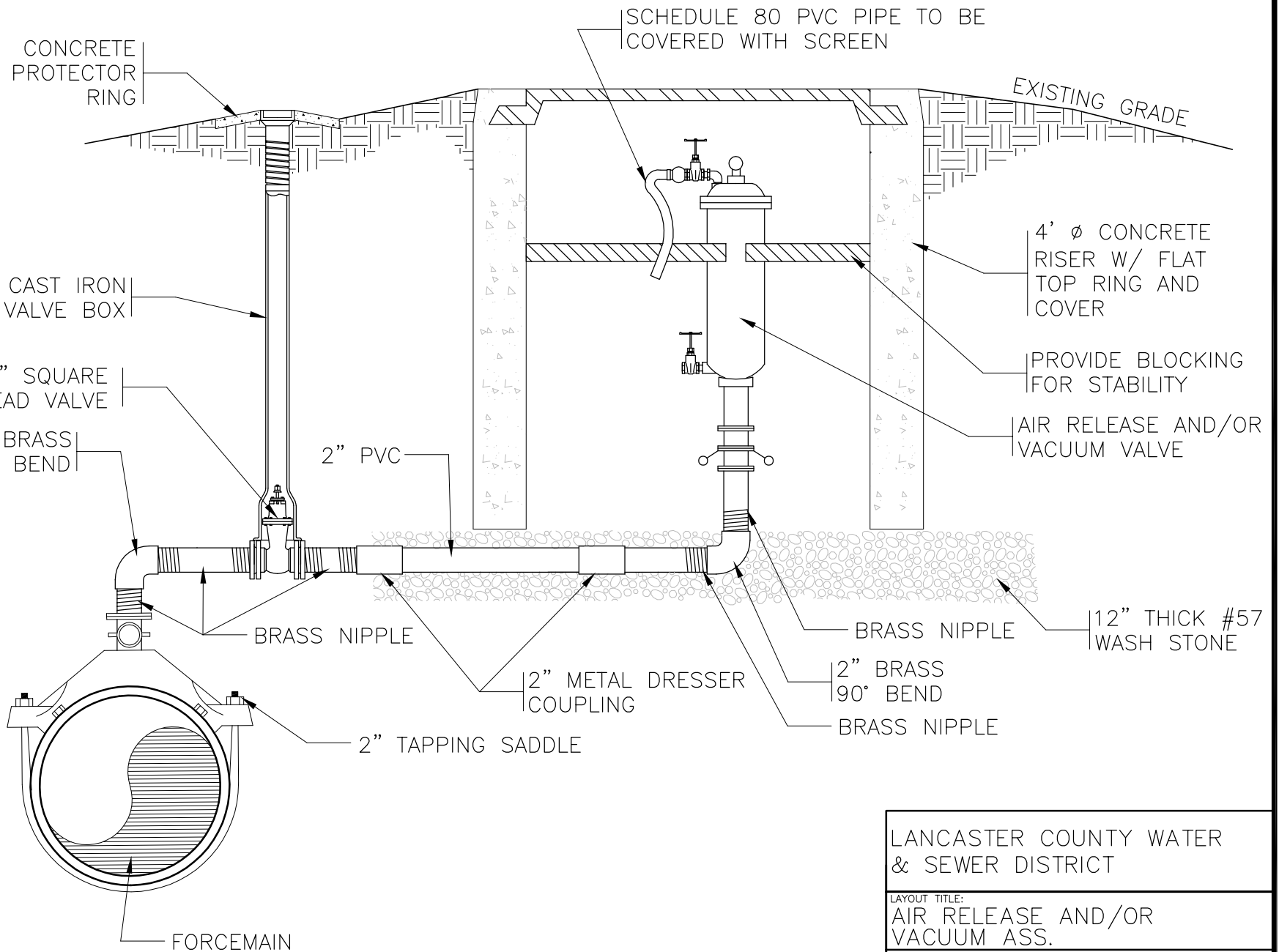


TYPICAL SECTION OF PRECAST SANITARY SEWER DROP MANHOLE N.T.S.

NOTES:

1. CARE MUST BE TAKEN TO FORM A SMOOTH FINISHED TROUGH FROM ENTRANCE PIPES TO EXIT PIPE, AND IN CURVED MANHOLES, THE TROUGH MUST BE A SMOOTH, CIRCULAR ARC TANGENT TO THE INSIDE WALLS OF THE PIPES AT THEIR ENDS.
2. THE SLOPE OF THE OUTSIDE DROP TROUGH SHALL BE $\frac{1}{4}$ " PER FOOT.
3. ALL PIPE OPENINGS TO BE NO GREATER THAN 3" LARGER THAN O.D. OF PIPE AND ADDITIONALLY REINFORCED WITH A MINIMUM OF 0.20 SQ. IN. OF STEEL AT 90 DEGREES. PIPE TO BE CENTERED IN OPENINGS. ADDITIONAL REINFORCING NOT REQUIRED FOR CORED OPENINGS.
4. OUTSIDE DROP SHALL NOT ENTER MANHOLE IN CONE SECTION.
5. MATCH DROP INFLUENT CROWN TO CROWN WITH EFFLUENT PIPE.
6. ALL PRECAST MANHOLES TO INCLUDE STEPS.
7. MAXIMUM HEIGHT FROM TOP OF MANHOLE CONE TO TOP OF MANHOLE TO BE 18" INCLUDING RING AND COVER
8. ALL DIP PIPE AND FITTINGS TO BE COATED.

LANCASTER COUNTY WATER & SEWER DISTRICT	
LAYOUT TITLE: DROP MANHOLE DETAIL 1	
CATEGORY: SEWER	
DATE: 08/23	SCALE: NONE
DETAIL SHORTNAME: DROPMH	SHEET S8



AIR RELEASE AND/OR
VACUUM VALVE ASSEMBLY
 N.T.S.

LANCASTER COUNTY WATER
 & SEWER DISTRICT

LAYOUT TITLE:
 AIR RELEASE AND/OR
 VACUUM ASS.

CATEGORY:
 SEWER

DATE:
 08/23

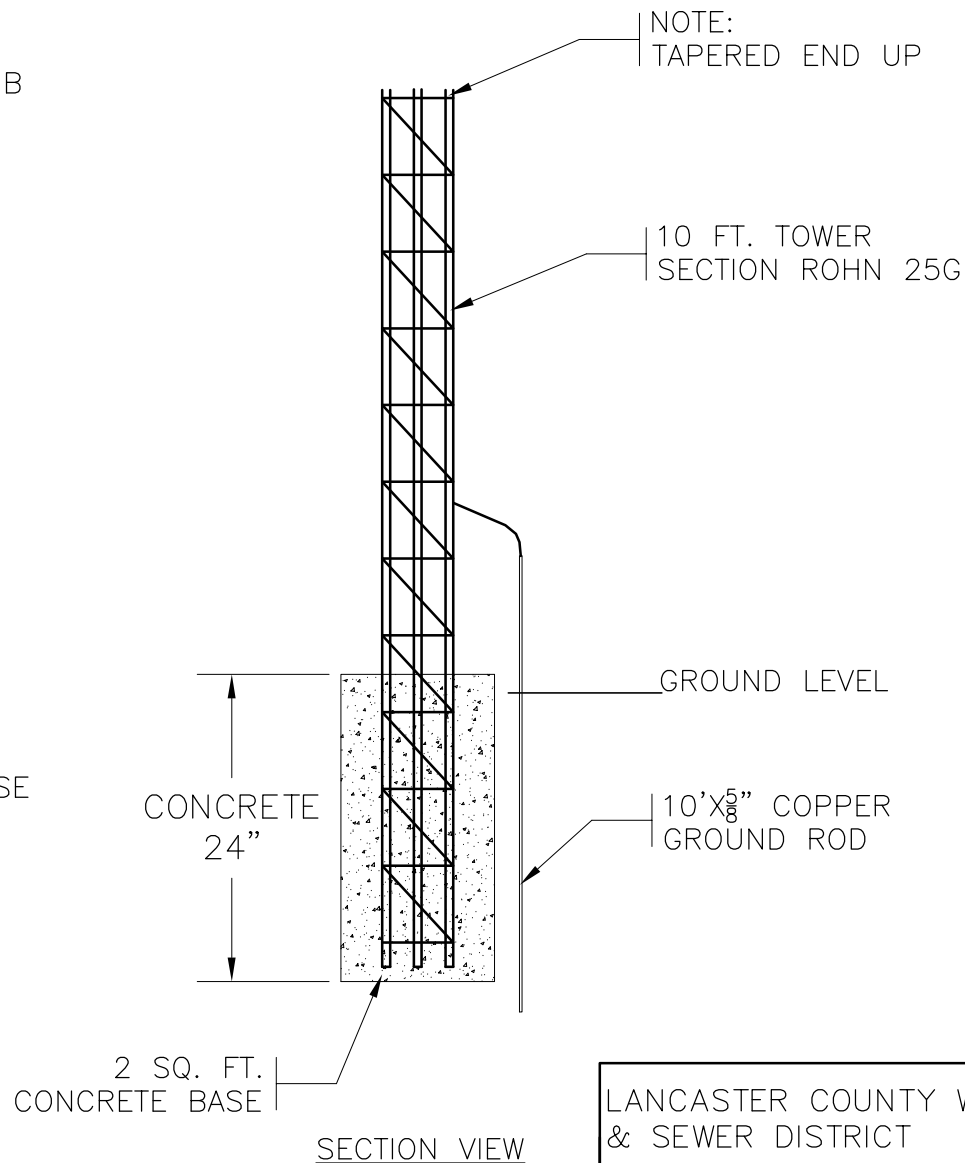
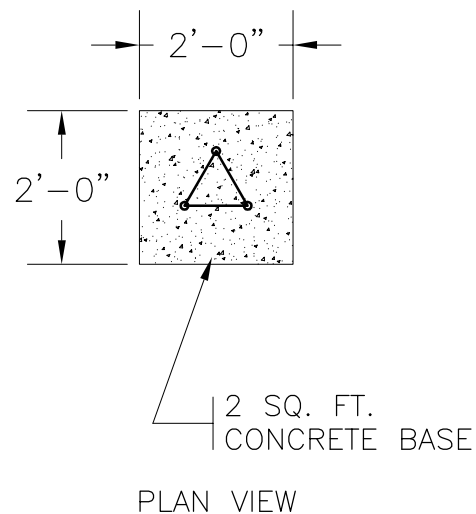
SCALE:
 NONE

DETAIL SHORTNAME:
 ARVASS

SHEET
 S10

NOTE:

1. THIS SECTION MUST BE PLUMB
2. BURY TOWER 24" DEEP IN CONCRETE



SCADA SYSTEM TOWER
N.T.S.

LANCASTER COUNTY WATER
& SEWER DISTRICT

LAYOUT TITLE:

SCADA SYSTEM TOWER

CATEGORY:

SEWER

DATE:

08/23

SCALE:

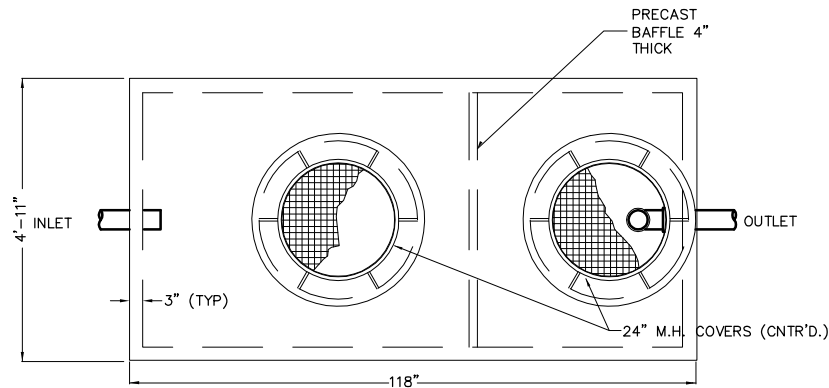
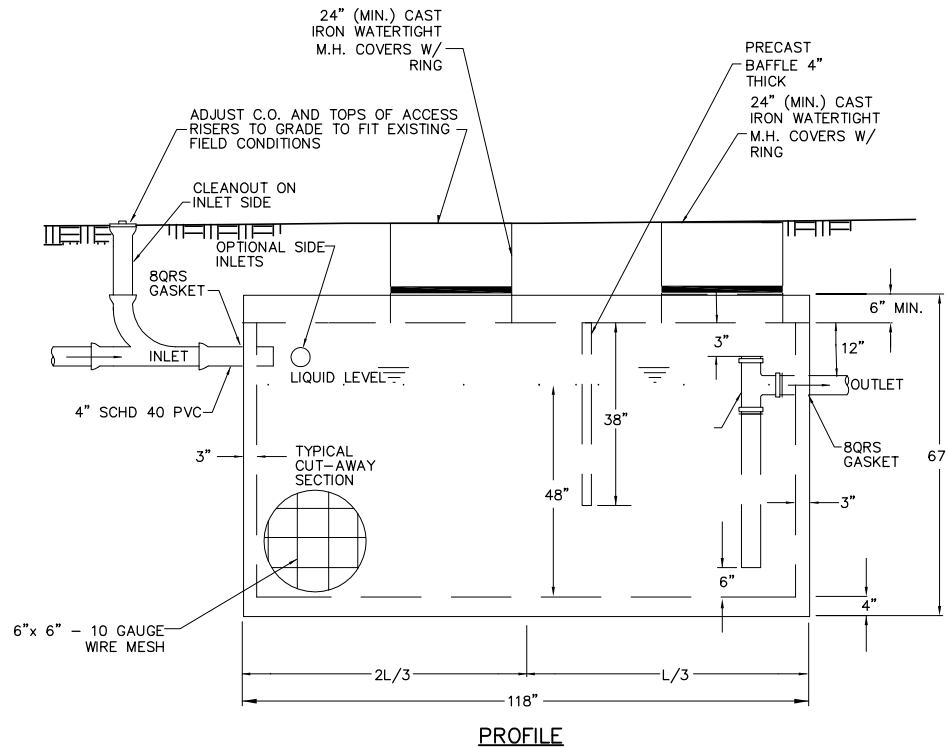
NONE

DETAIL SHORTNAME:

SCADA

SHEET

S11



CONCRETE - 4000 PSI
 REINFORCEMENT - 6"x 6" - 10 GAUGE WIRE MESH
 LENGTH TO WIDTH RATIO - 2:1
 LOAD DESIGN - 150 LBS. PER SQUARE FOOT

LIFTING HOOKS TO BE SUPPLIED.
 LID ON TANK TO BE SUPPLIED FOR TRAFFIC
 LOADING.

GREASE TRAP (1,000 GAL. CAP.)
 (N.T.S.)

LANCASTER COUNTY WATER & SEWER DISTRICT

LAYOUT TITLE:

GREASE TRAP
 (1,000 GALLON CAPACITY)

CATEGORY:

SEWER

DATE:

08/23

SCALE:

NONE

DETAIL SHORTNAME:

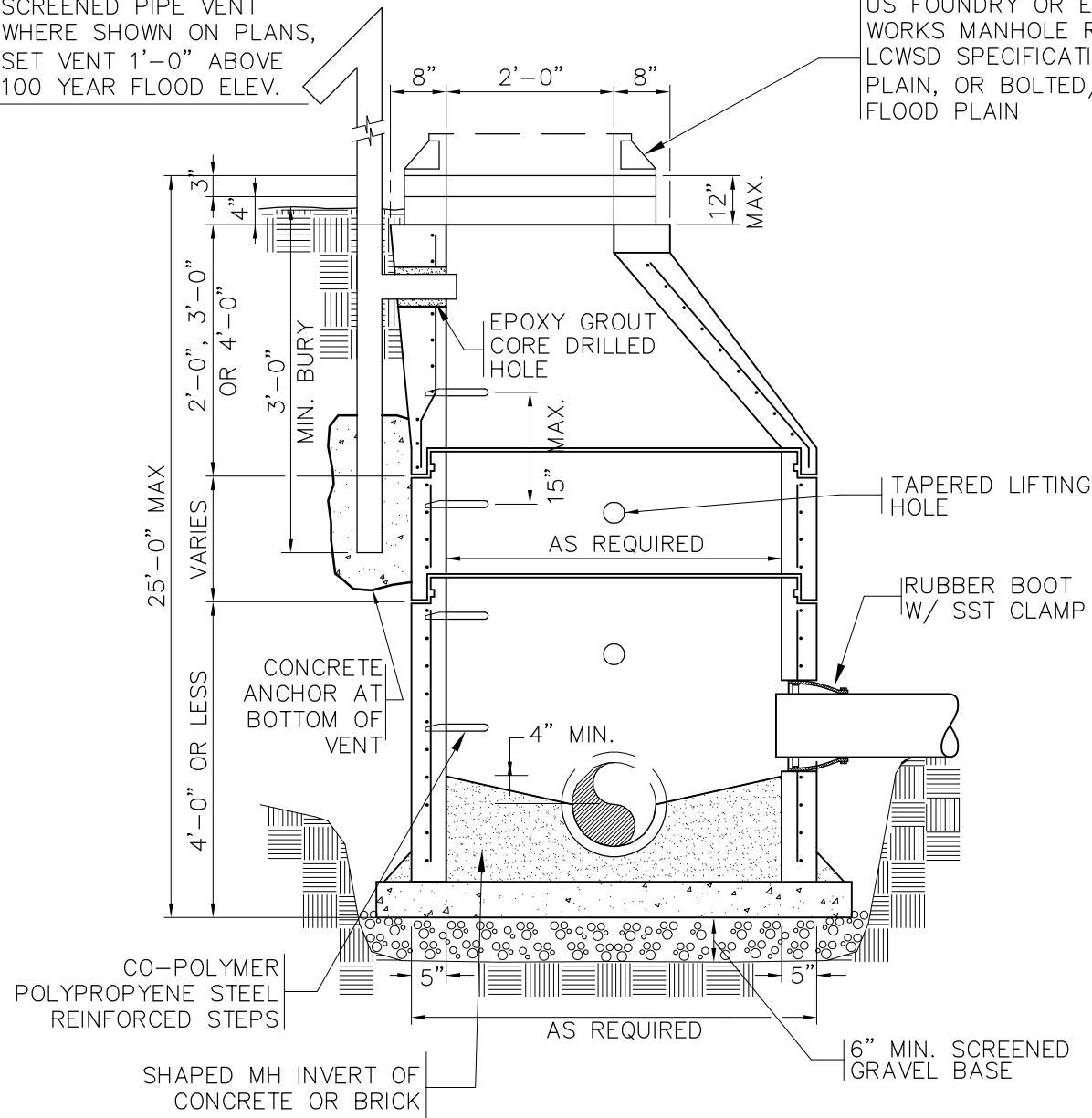
GRSTR

SHEET

S27

4" SCH. 80 PVC
(SUNLIGHT RESISTANT)
SCREENED PIPE VENT
WHERE SHOWN ON PLANS,
SET VENT 1'-0" ABOVE
100 YEAR FLOOD ELEV. <

US FOUNDRY OR EAST JORDAN IRON
WORKS MANHOLE RING AND COVER PER
LCWSD SPECIFICATIONS, ABOVE FLOOD
PLAIN, OR BOLTED/GASKETED BELOW
FLOOD PLAIN



TYPICAL SECTION OF
VENTED AIR-TIGHT MANHOLE
(N.T.S.)

LANCASTER COUNTY WATER
& SEWER DISTRICT

LAYOUT TITLE:

VENTED AIR-TIGHT MANHOLE

CATEGORY:

SEWER

DATE:

08/23

DETAIL SHORTNAME:
VENTMH

SCALE:

NONE

SHEET

S28

STRAIGHT

FLEX CONNECTION

FLEX CONNECTION

2 - WAY
INTERSECTION

FLEX CONNECTION

STEEL TROWEL FINISH
1":6" SHELF SLOPE

NOTE:
SHAPE INVERT TO 1/2 PIPE
DIAMETER IN ALL CASES

STEEL TROWEL FINISH
1":6" SHELF SLOPE

3 OR 4-WAY
INTERSECTION

FLEX CONNECTION

FLEX CONNECTION

EVEN RADIUS CURVES

NOTE:
SEE TYPICAL MANHOLE SECTION
DETAIL FOR CONTINUATION OF
MANHOLE CONSTRUCTION

TYPICAL MANHOLE INVERTS

N.T.S.

LANCASTER COUNTY WATER
& SEWER DISTRICT

LAYOUT TITLE:

TYPICAL MANHOLE INVERTS

CATEGORY:

SEWER

DATE:

08/23

SCALE:

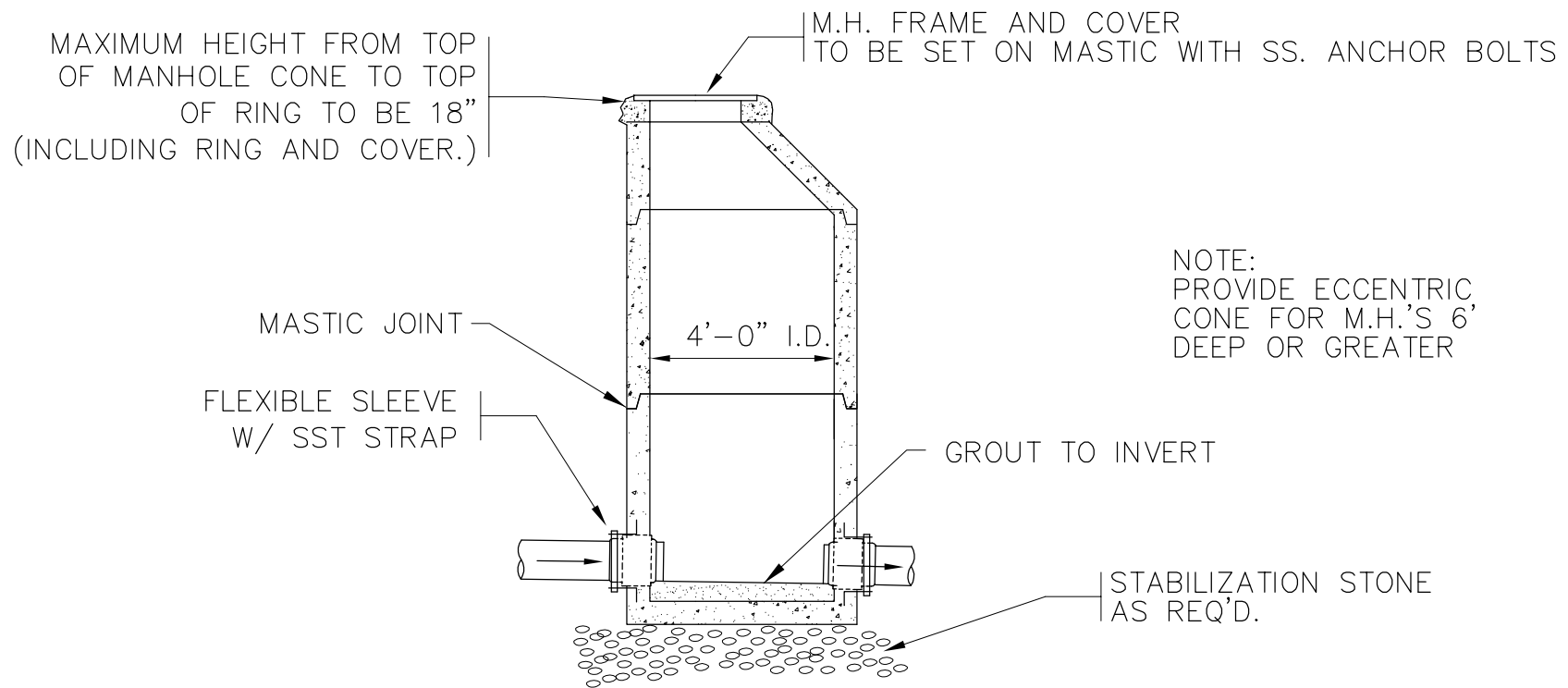
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DETAIL SHORTNAME:

MHINV

SHEET

S29

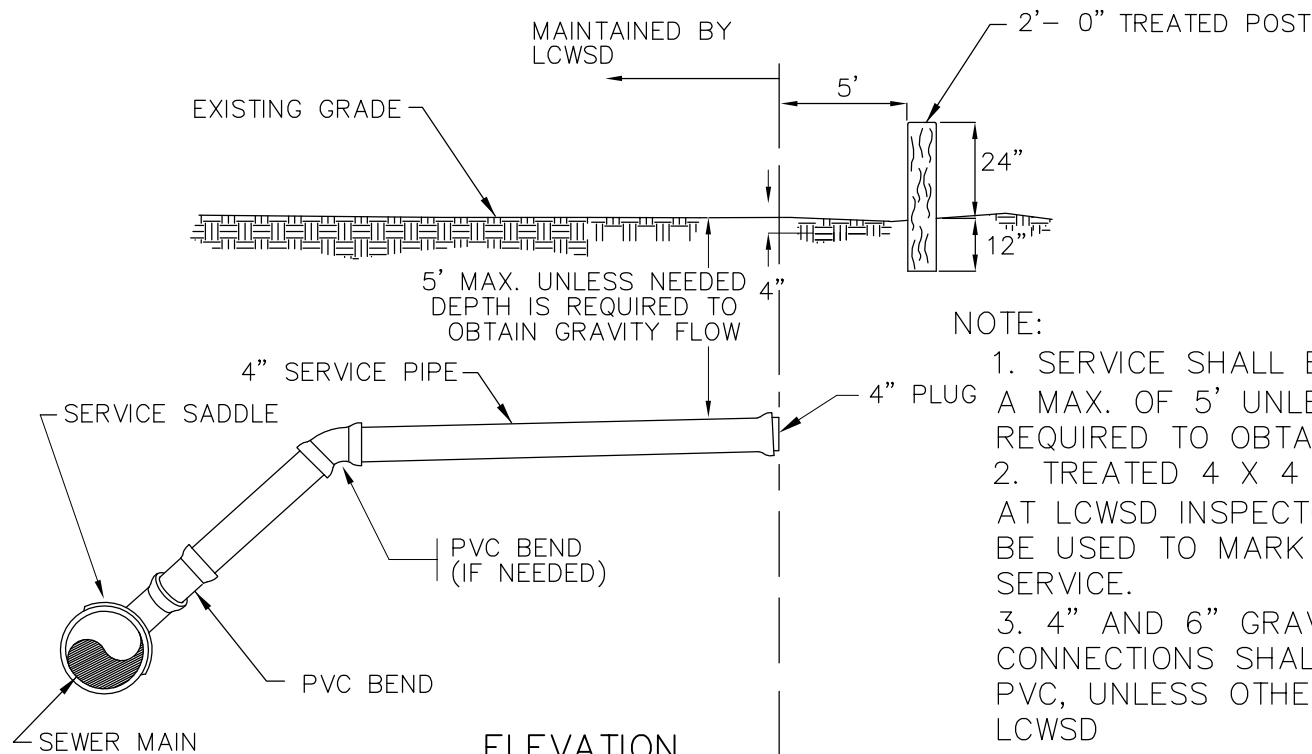


TYPICAL SECTION OF PRECAST SANITARY MANHOLE N.T.S.

NOTE:

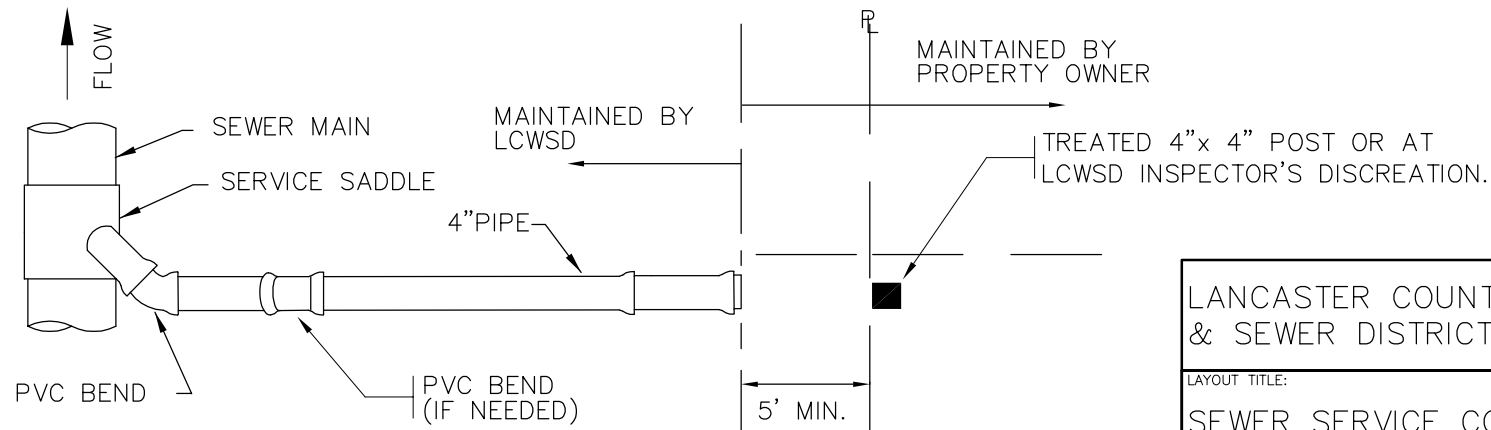
1. ALL PRECAST MANHOLE'S TO INCLUDE STEPS.
2. MAXIMUM OF 18" FROM TOP OF CONE TO TOP OF RING.
3. CARE MUST BE TAKEN TO FORM A SMOOTH FINISHED TROUGH FROM ENTRANCE PIPES TO EXIT PIPE, AND IN CURVED MANHOLES, THE TROUGH MUST BE A SMOOTH, CIRCULAR ARC TANGENT TO THE INSIDE WALLS OF THE PIPES AT THEIR ENDS.
4. THE SLOPE OF THE OUTSIDE DROP TROUGH SHALL BE 1/4" PER FOOT.
5. ALL PIPE OPENINGS TO BE NO GREATER THAN 3" LARGER THAN O.D. OF PIPE AND ADDITIONALLY REINFORCED WITH A MINIMUM OF 0.20 SQ. IN. OF REINFORCING NOT REQUIRED FOR CORED OPENINGS.
6. OUTSIDE DROP SHALL NOT ENTER MANHOLE IN CONE SECTION. MATCH DROP INFLUENT CROWN TO CROWN WITH EFFLUENT PIPE.

LANCASTER COUNTY WATER & SEWER DISTRICT	
LAYOUT TITLE: SEWER	
CATEGORY: SEWER	
DATE: 08/23	SCALE: NONE
DETAIL SHORTNAME: PCSMH	SHEET S30



NOTE:

1. SERVICE SHALL BE A MIN. OF 2' AND A MAX. OF 5' UNLESS GREATER DEPTH IS REQUIRED TO OBTAIN GRAVITY FLOW.
2. TREATED 4 X 4 POST OR MATERIAL AT LCWSD INSPECTOR'S DISCRETION TO BE USED TO MARK END OF SEWER SERVICE.
3. 4" AND 6" GRAVITY SEWER SERVICE CONNECTIONS SHALL BE SCHEDULE 40 PVC, UNLESS OTHERWISE APPROVED BY LCWSD



TYPICAL SEWER SERVICE CONNECTION

N.T.S.

LANCASTER COUNTY WATER
& SEWER DISTRICT

LAYOUT TITLE:

SEWER SERVICE CONNECTION
DETAIL 1

CATEGORY:

SEWER

DATE:

08/23

SCALE:

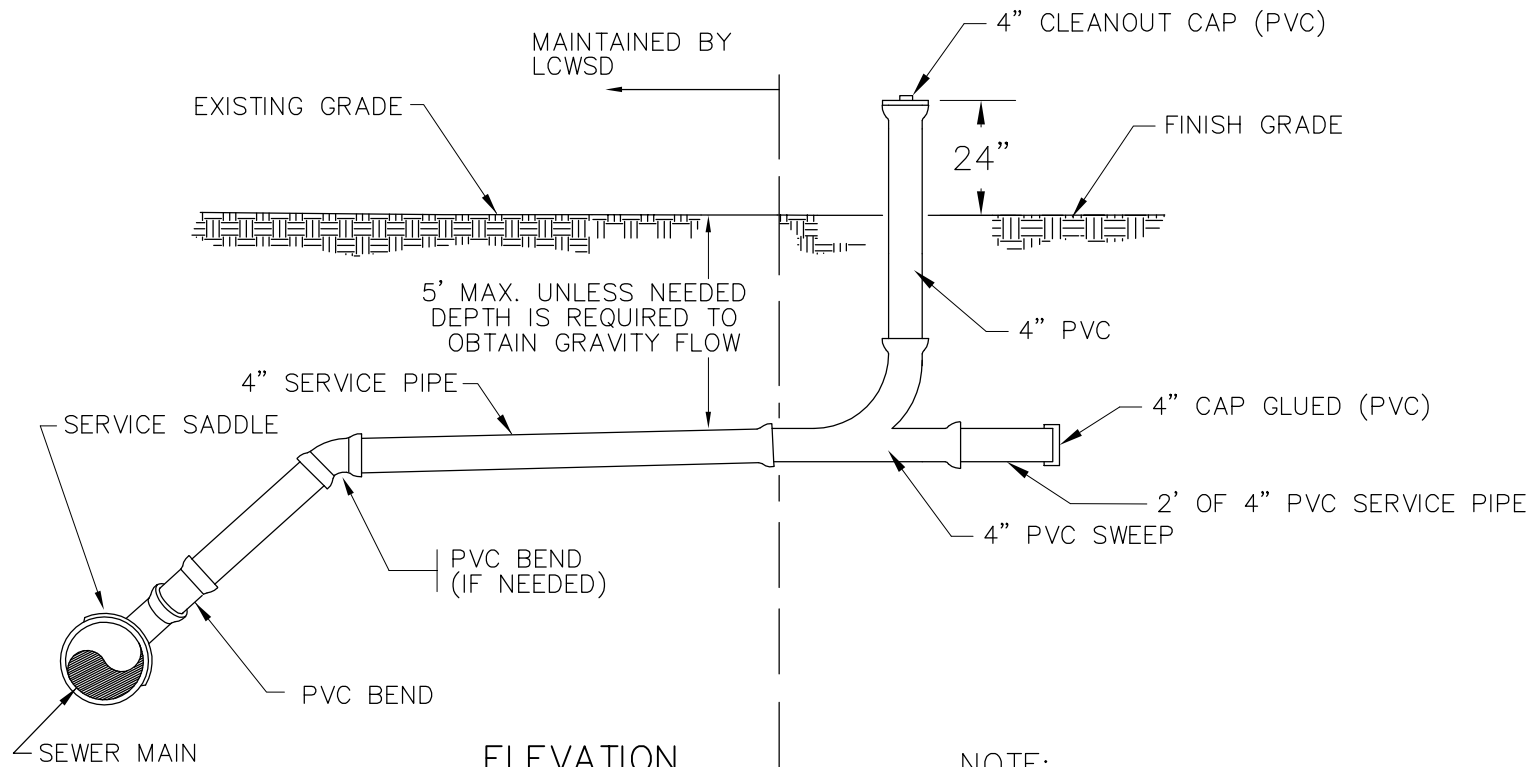
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DETAIL SHORTNAME:

PCSMH

SHEET

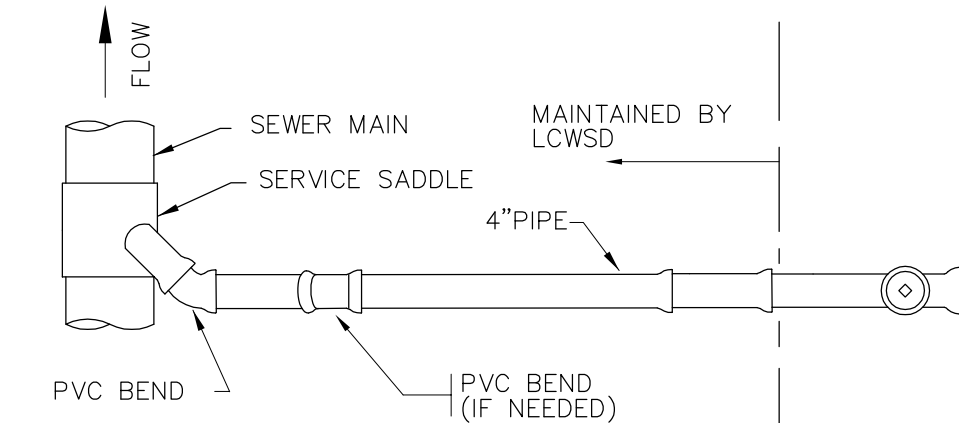
S31



ELEVATION

NOTE:

1. SERVICE SHALL BE A MIN. OF 2' AND A MAX. OF 5' UNLESS GREATER DEPTH IS REQUIRED TO OBTAIN GRAVITY FLOW.
2. 4" AND 6" GRAVITY SEWER SERVICE CONNECTIONS SHALL BE SCHEDULE 40 PVC, UNLESS OTHERWISE APPROVED BY LCWSD



TYPICAL SEWER SERVICE CONNECTION

N.T.S.

LANCASTER COUNTY WATER
& SEWER DISTRICT

LAYOUT TITLE:

SEWER SERVICE CONNECTION
DETAIL 2

CATEGORY:

SEWER

DATE:

08/23

SCALE:

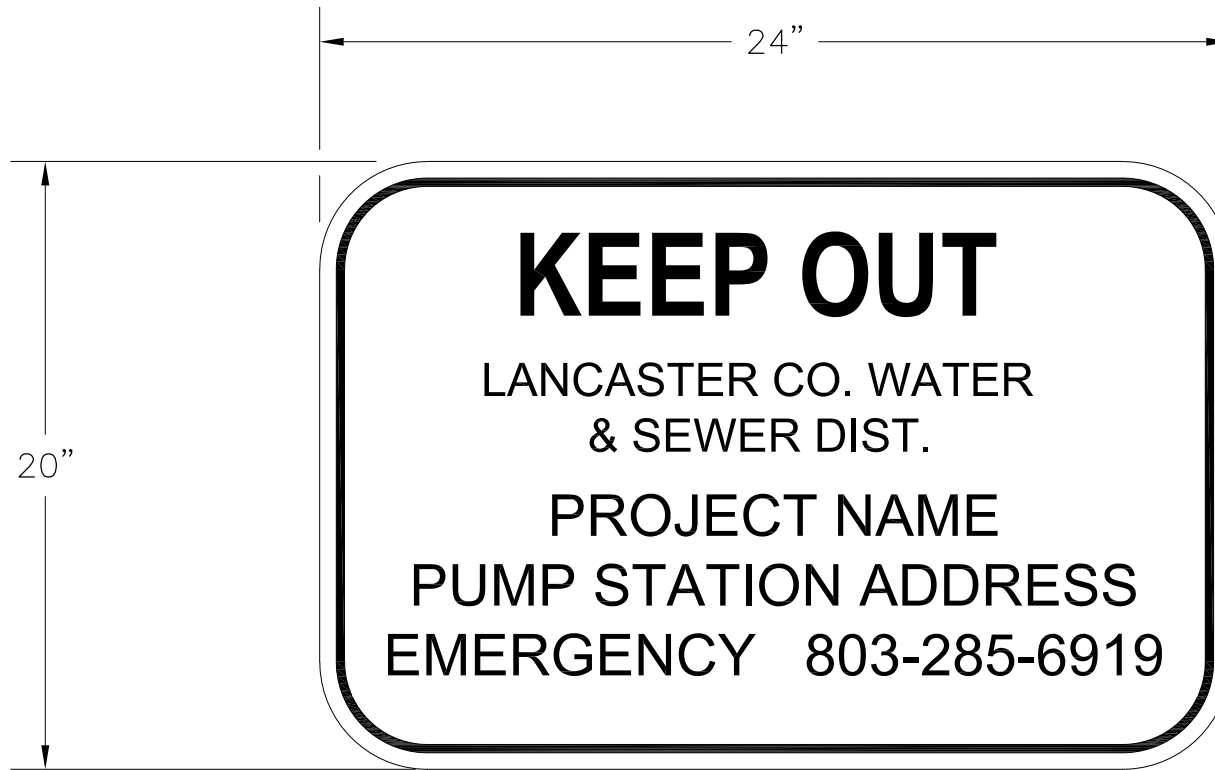
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DETAIL SHORTNAME:

PCSMH

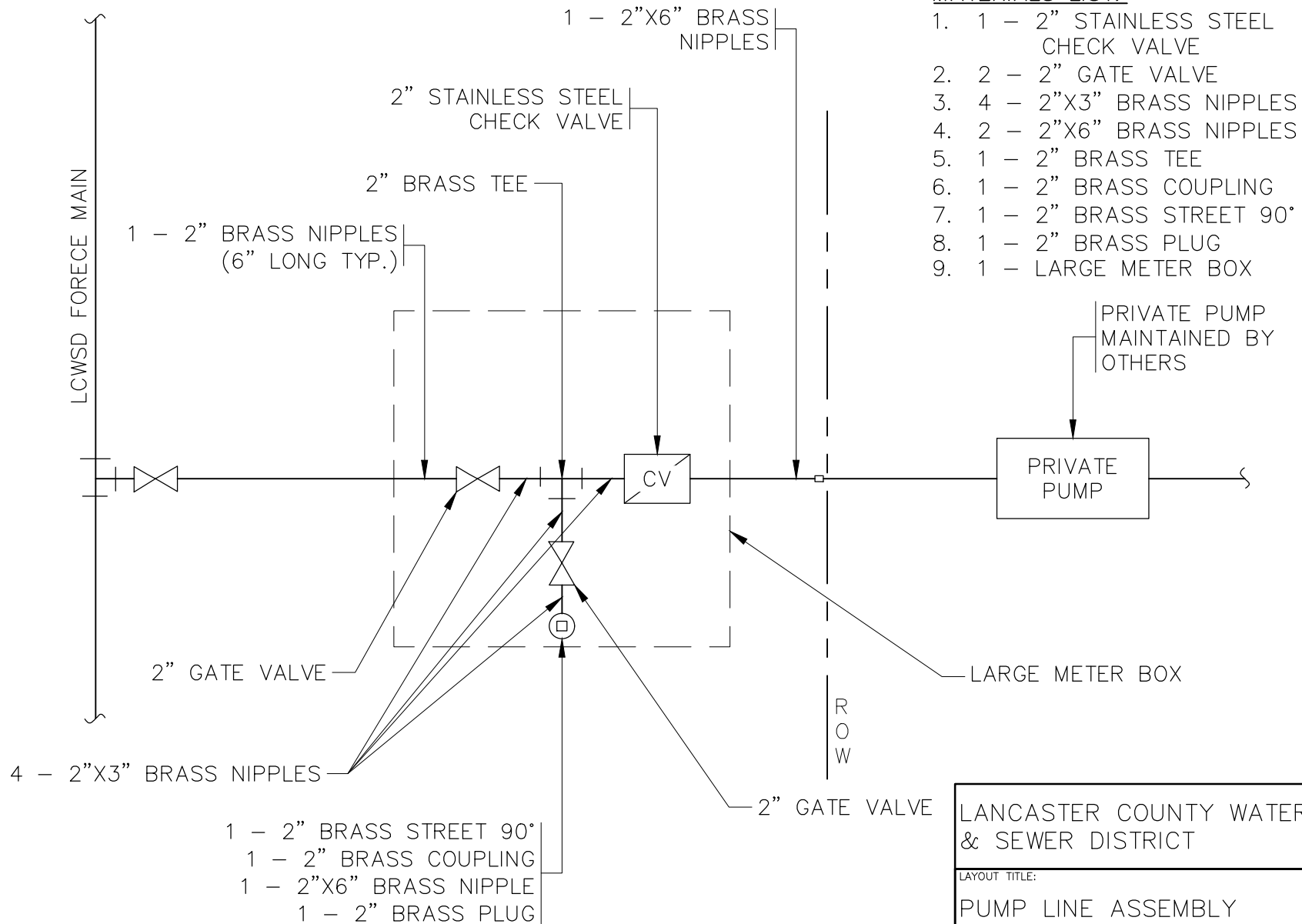
SHEET

S32



PUMP STATION FENCE SIGN DETAIL
N.T.S.

LANCASTER COUNTY WATER & SEWER DISTRICT	
LAYOUT TITLE: PUMP STATION FENCE SIGN DETAIL	
CATEGORY: SEWER	
DATE: 10/2024	SCALE: NONE
DETAIL SHORTNAME: -----	SHEET S33



MATERIALS LIST:

1. 1 - 2" STAINLESS STEEL CHECK VALVE
2. 2 - 2" GATE VALVE
3. 4 - 2"X3" BRASS NIPPLES
4. 2 - 2"X6" BRASS NIPPLES
5. 1 - 2" BRASS TEE
6. 1 - 2" BRASS COUPLING
7. 1 - 2" BRASS STREET 90°
8. 1 - 2" BRASS PLUG
9. 1 - LARGE METER BOX

2" PUMP LINE ASSEMBLY DETAIL

N.T.S.

LANCASTER COUNTY WATER & SEWER DISTRICT

LAYOUT TITLE:

PUMP LINE ASSEMBLY
DETAIL

CATEGORY:

SEWER

DATE:

7/2026

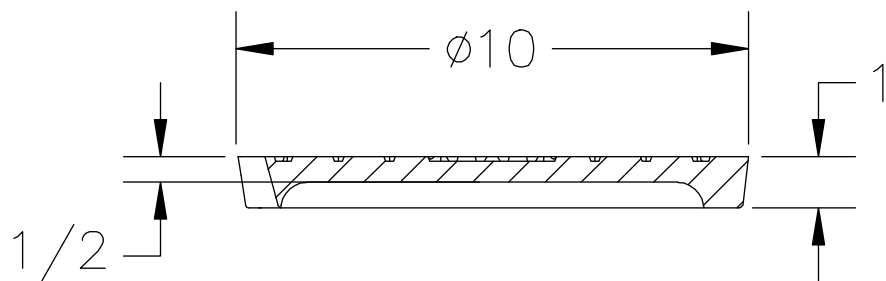
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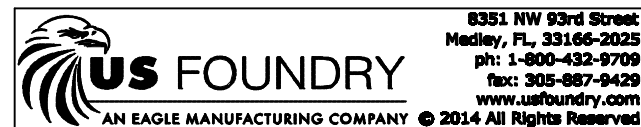
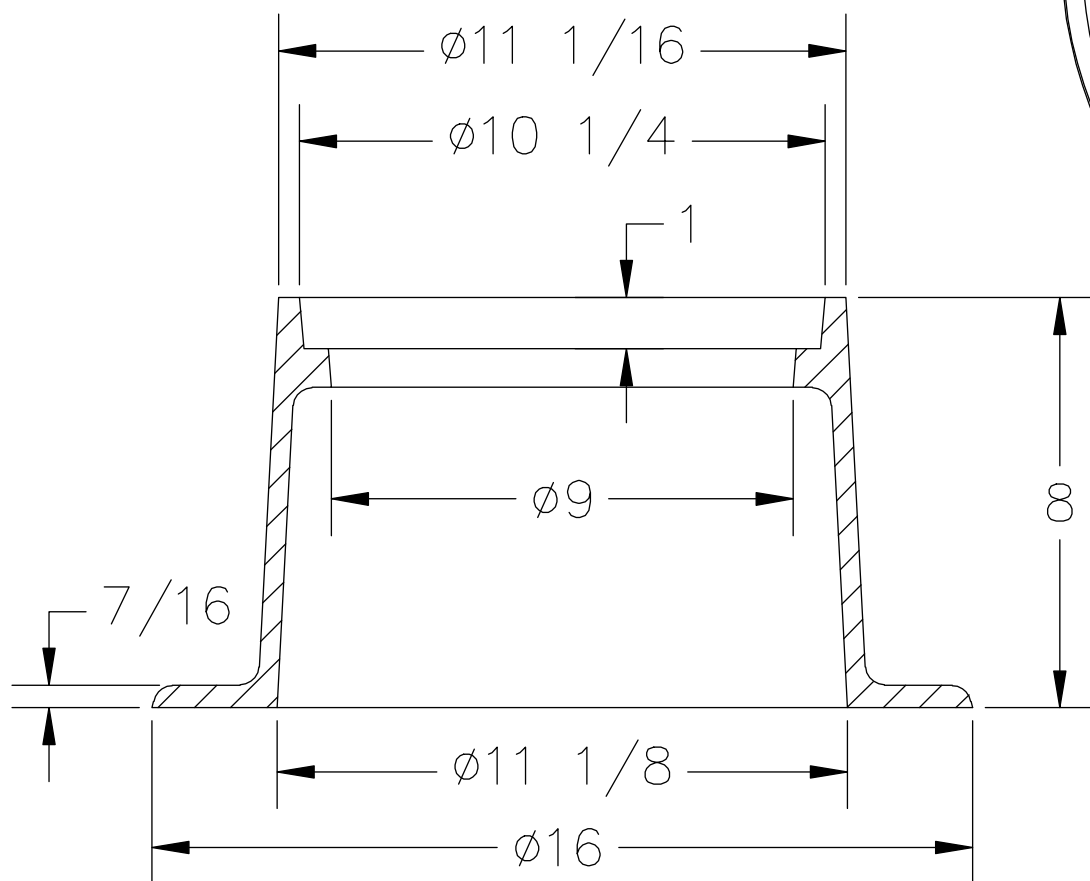
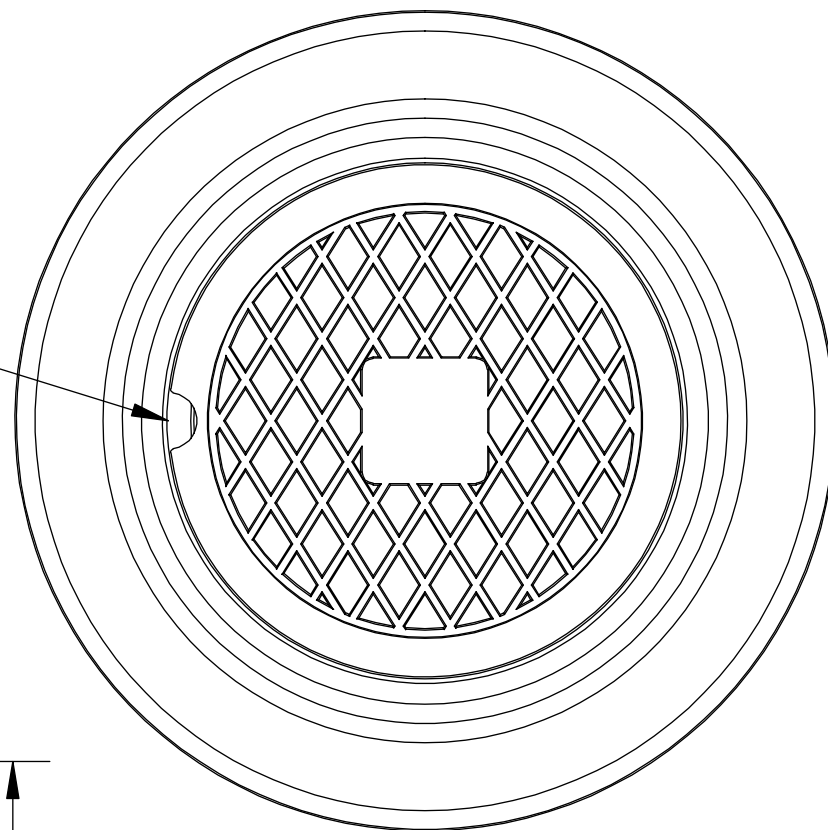
DETAIL SHORTNAME:

SHEET

S34



(1) — PENETRATING
PICK HOLE



USF 7631 Ring & QF Cover
6" Cleanout

LOAD CLASSIFICATION: Heavy Duty		
MATERIAL: ASTM-A48 GRAY IRON CLASS35B		
Ring No:	8090167	SCALE: 1/4"=1"
Cover No:		DATE: 8-23-11
		DWN. BY: ULS
REV: 0	DATE:	REV BY:
		QUOTE#