

CITY OF LATHROP

Department of Public Works

DESIGN & CONSTRUCTION

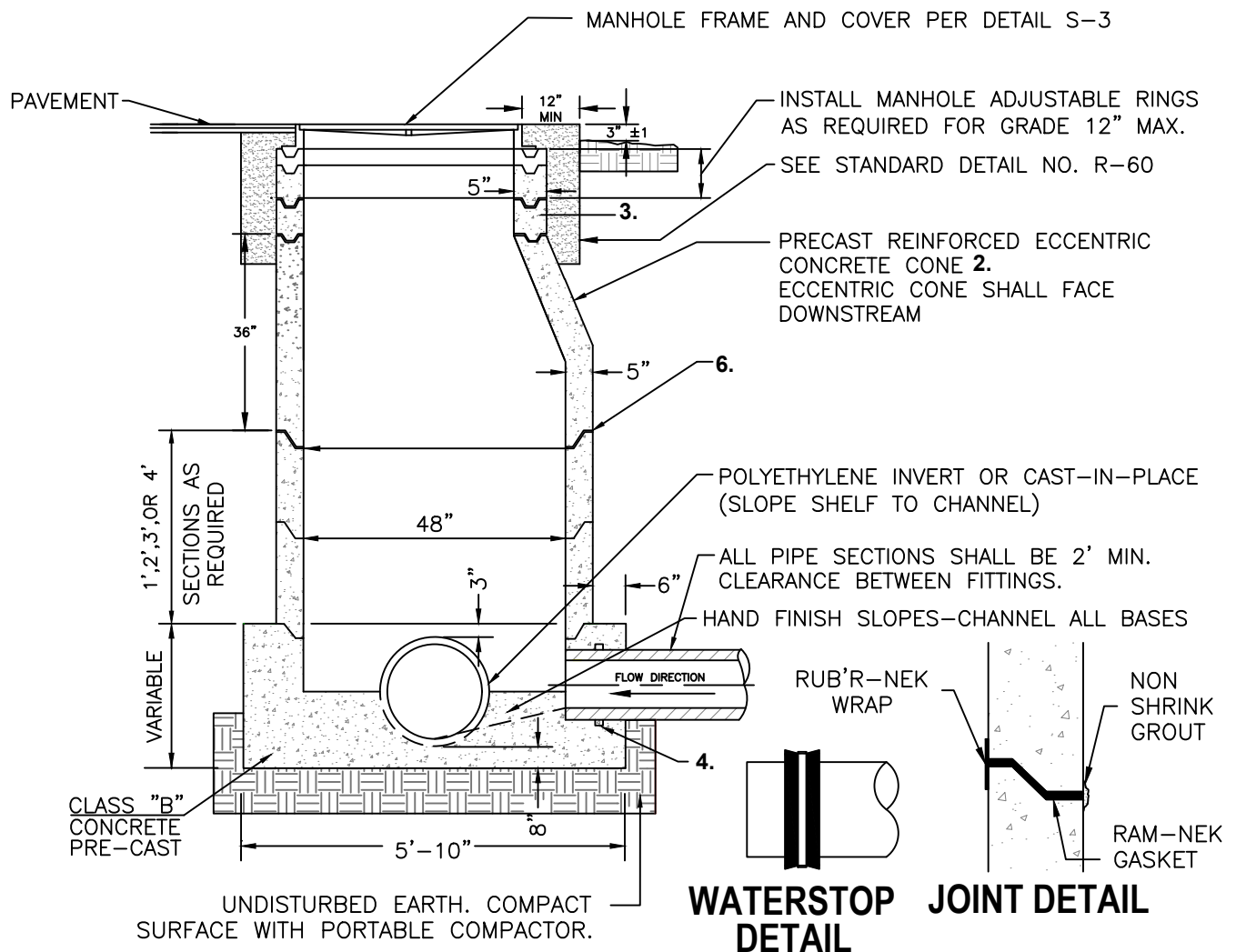
Standard Details



February 2022

Sewer

Sanitary Sewer Type I Manhole	S-1
Sanitary Sewer Inside Drop Manhole	S-2
Manhole Frame And Cover	S-3
Lamp Hole	S-4
Lamp Hole Cleanout	S-5
Property Line Cleanout	S-6
Sewage Air Release Valve	S-7
Composite Manhole Cover Within 500' of Pump Station	S-8
Sanitary Sewer Lateral	S-9



NOTES:

1. Concentric reinforced concrete cone may be used on approval of city engineer.
2. Precast reinforced concrete manhole unit shall conform to ASTM C-478.
3. Barrel diameter of 60" required when pipe is 24" & larger or at greater than 15' in depth.
4. All manholes shall be vacuum tested in the field in accordance with section 5-7.2 D leakage of the City Standards
5. Manhole base shall be pre-cast.
6. All joints shall be set on "Ram-Nek" or approved equal. Interior and exterior joints & pick points shall be grouted. Wrap exterior joint with Rub'R-Nek external concrete joint wrap.

NOT TO SCALE

Approved by:

[Signature]

City Of Lathrop
Public Works Director

No	Revised	Date

CITY OF LATHROP
DEPARTMENT OF PUBLIC WORKS

**SANITARY SEWER
TYPE I MANHOLE**

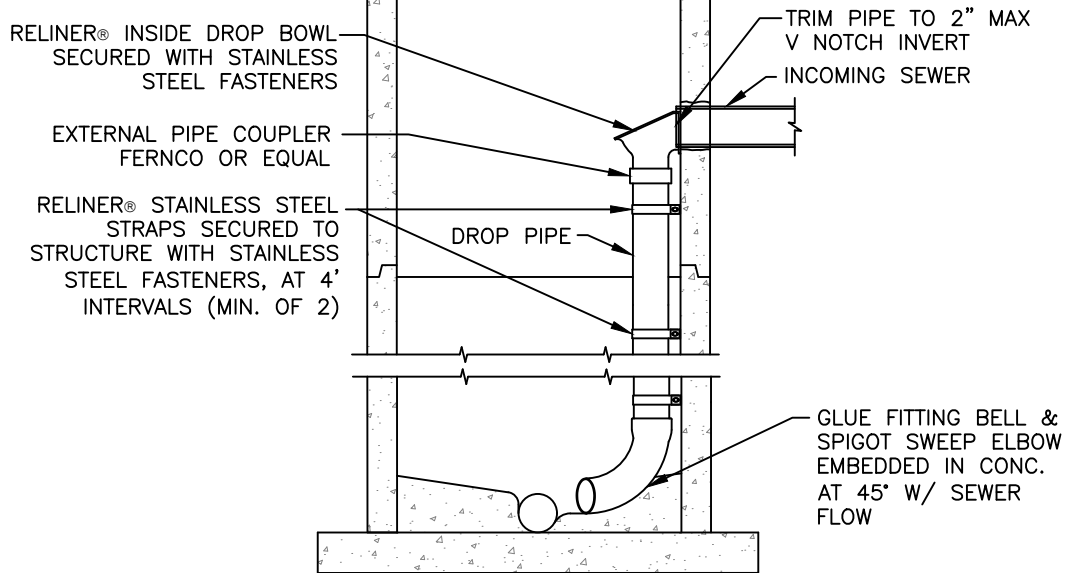
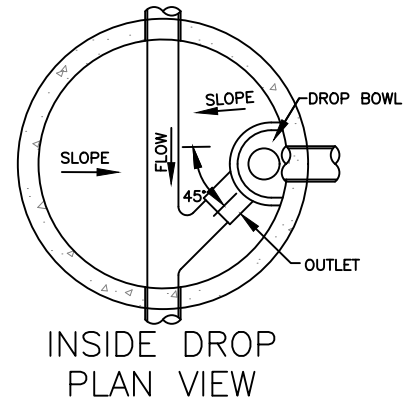


**STANDARD
DETAIL**

Date: **FEBRUARY 2022**

Drawing No:

S-1



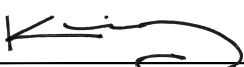
INSIDE DROP CONNECTION

NOTES:

1. This type of manhole shall be used where the difference in elevation between the top of outlet pipe and the invert of the feeder pipe exceeds 24".
2. All inside drop piping to be PVC SDR-26.
3. Cement all joints.
4. Drop connection pipe and fittings to be same size as entering pipe.
5. Clamps to be 1-1/2" x 12 gauge stainless steel. Anchored to manhole wall with 2-1/2" stainless steel bolts 2 min at 24" o.c. (typ.).
6. Only inside drops are allowed.
7. Manhole barrel size may need to be increased to accommodate inside drop.
8. Rubber ring waterstop or manhole adapter required for PVC pipe installations.

NOT TO SCALE

Approved by:



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CITY OF LATHROP
DEPARTMENT OF PUBLIC WORKS

**SANITARY SEWER
INSIDE DROP MANHOLE**

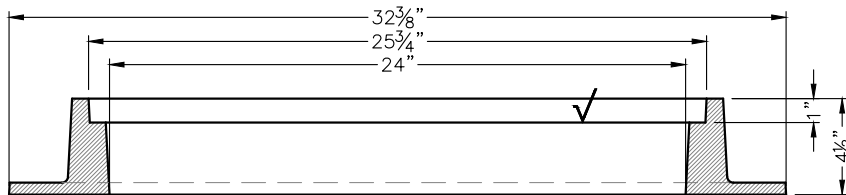
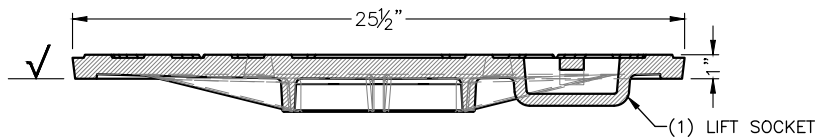
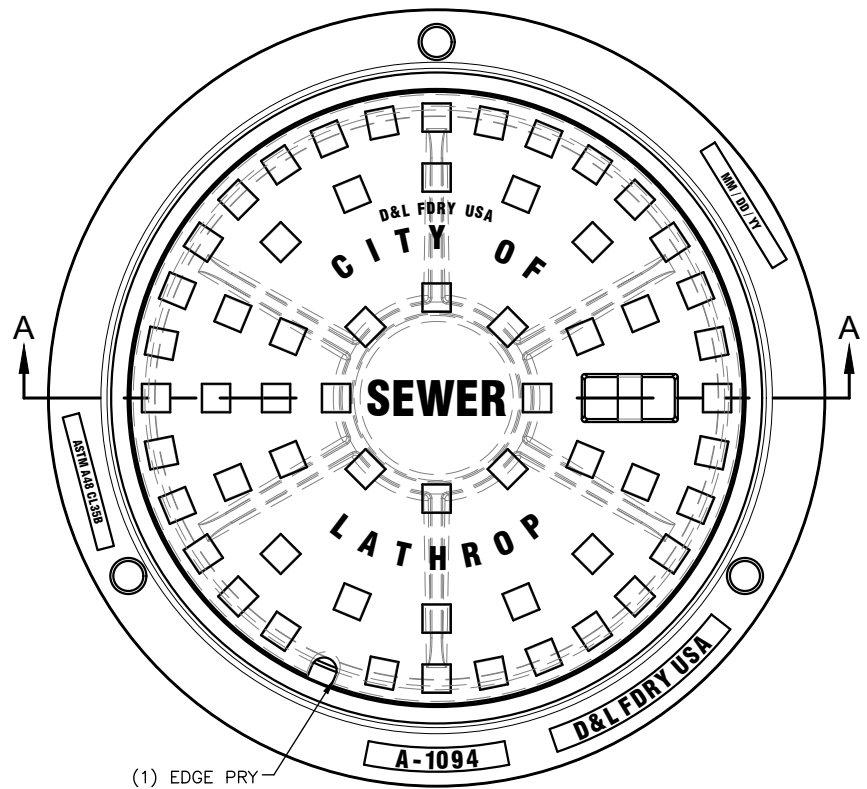


**STANDARD
DETAIL**

Date: **FEBRUARY 2022**

Drawing No:

S-2



SECTION A-A

D&L SUPPLY COMPANY		
	PRODUCT NUMBER	MATERIAL TYPE
COVER	A-1094-30	GRAY IRON: ASTM A-48 CL 35B
RING	A-1094-R1	GRAY IRON: ASTM A-48 CL 35B

NOTE:

1. Manhole frame and cover shall be Pantight decking lid with Elastomer gasket rated for H₂O loading or approved equal if within 500' of a sewer pump station or lift station.
2. Manhole cover shall have raised letters and opening in socket

NOT TO SCALE

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CITY OF LATHROP
DEPARTMENT OF PUBLIC WORKS

**MANHOLE FRAME AND
COVER**

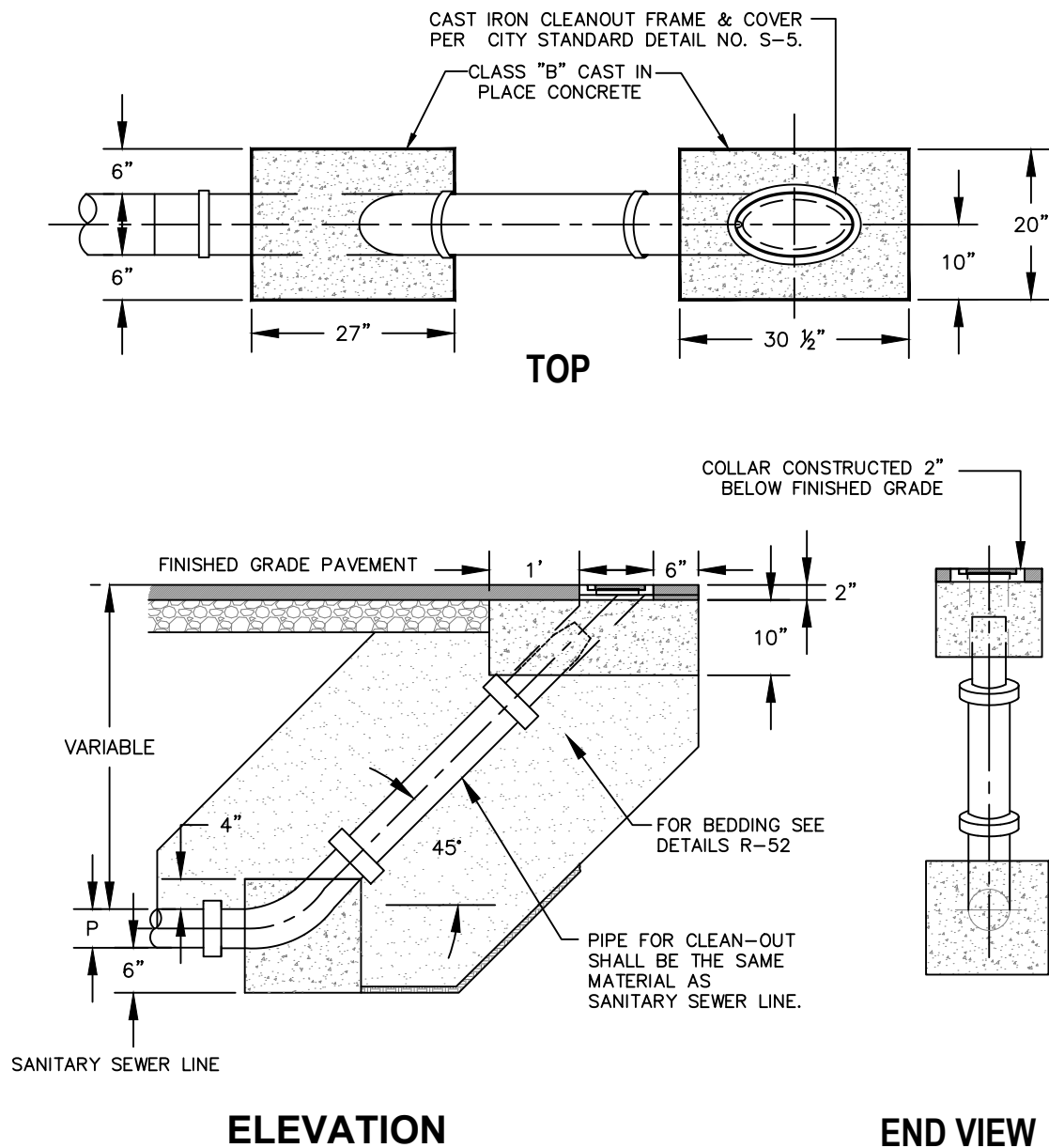


**STANDARD
DETAIL**

Date: **FEBRUARY 2022**

Drawing No:

S-3



NOTES:

1. 6"Ø 45° elbow.
2. Lamp hole shall be used at of end line or where approved by city engineer.

NOT TO SCALE

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CITY OF LATHROP
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LAMP HOLE

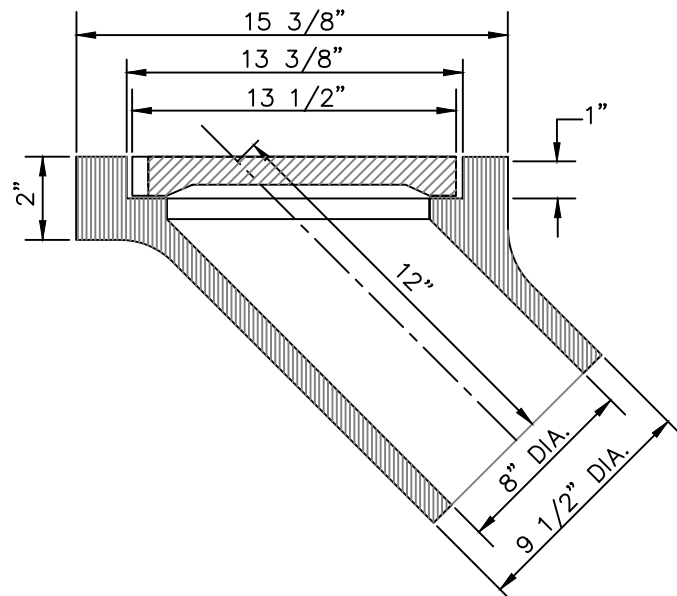
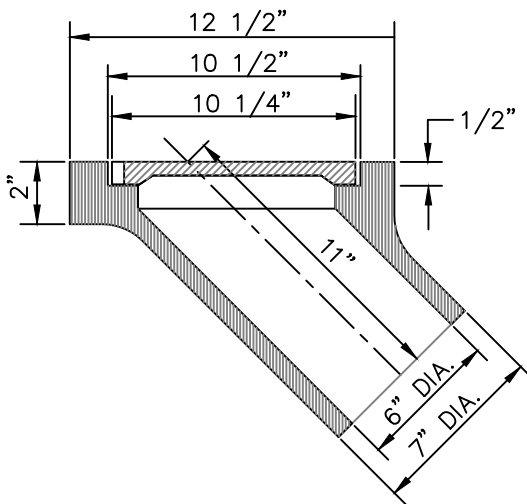
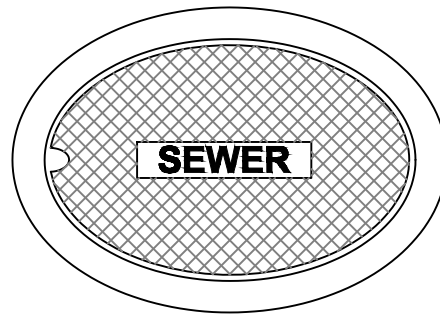
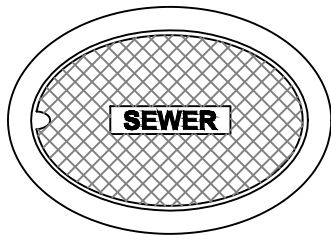


**STANDARD
DETAIL**

Date: **FEBRUARY 2022**

Drawing No:

S-4



SBF 1248 BOX / LID

SET WEIGHT	
Frame -----	55 lbs
Lid -----	10 lbs
Total	65 lbs

SBF 1247 BOX / LID

SET WEIGHT	
Frame -----	65 lbs
Lid -----	20 lbs
Total	85 lbs

NOTES:

1. All materials used in manufacturing shall conform to ASTM 48, Class 35B.
2. Castings shall be dipped in black, bituminous paint.
3. Frame and cover meets H-20 wheel loading.

NOT TO SCALE

Approved by:

[Signature]

City Of Lathrop
Public Works Director

No	Revised	Date

CITY OF LATHROP
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**LAMP HOLE
CLEANOUT**

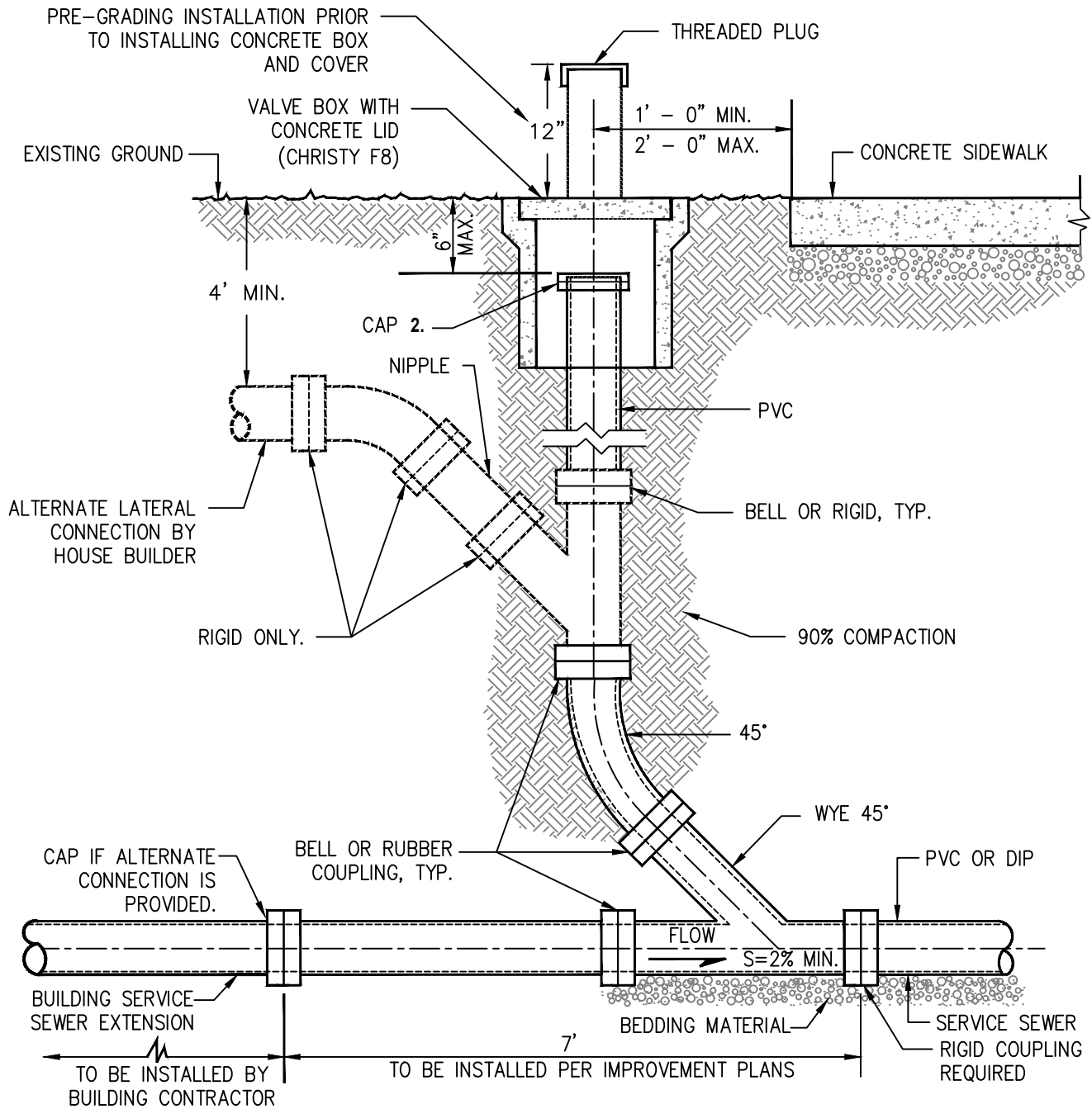


**STANDARD
DETAIL**

Date: **FEBRUARY 2022**

Drawing No:

S-5



NOTES:

1. All cleanout pipe and fittings shall be same size and material as the service sewer in which they connect.
2. All caps shall be threaded plugs.
3. PVC pipe shall be SDR-26 minimum strength.

NOT TO SCALE

Approved by:

[Signature]

City Of Lathrop
Public Works Director

No	Revised	

CITY OF LATHROP
DEPARTMENT OF PUBLIC WORKS

PROPERTY LINE CLEANOUT



**STANDARD
DETAIL**

Date: **FEBRUARY 2022**

Drawing No:

S-6

DIMENSIONS AND WEIGHTS

NOMINAL SIZE	A	B	WEIGHT LBS.
2" THREADED	16 ⁵ / ₈	25 ³ / ₈	346
2" FLANGED	16 ⁵ / ₈	23 ¹³ / ₁₆	366
3"	16 ⁵ / ₈	23 ¹³ / ₁₆	407
4"	16 ⁵ / ₈	23 ¹³ / ₁₆	429
6"	16 ⁵ / ₈	24 ¹ / ₆₄	462

ORIFICE SIZE AREA INCH²

AUTOMATIC ORIFICE	0.018
KINETIC ORIFICE	1.246

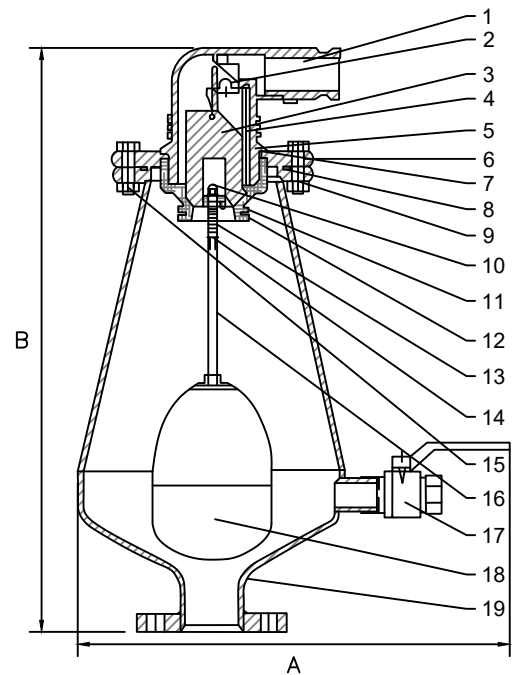
THREADS: NPI
FLANGES AVAILABLE IN ANSI STANDARD

ENCLOSURE DETAILS:

1. FOR POTABLE WATER USE BLUE: PART # VCAS-1830-BL
2. FOR RECYCLED WATER USE PURPLE: PART # VCAS-1830-PR
3. FOR SEWER USE GREEN: PART #VCAS-1830-GR

PARTS LIST AND SPECIFICATION

NO.	PART	MATERIAL
1	FLUSHING CONNECTION	POLYPROPYLENE
2	STEAL PLUG ASSEMBLY	REINFORCED NYLON + RUBBER EPDM
3	FLOAT	FOAMED POLYPROPYLENE
4	CLAMPING STEM	REINFORCED NYLON
5	BODY	REINFORCED NYLON
6	COVER	STEEL DIN ST 37/ST ST SAE 316/STEEL WCB
7	O-RING	BUNA-N
8	O-RING	BUNA-N
9	WASHER	TEFLON
10	CROWN NUT	STAINLESS STEEL SAE 316
11	PLASTIC BASE	REINFORCED NYLON
12	STOPPER	ACETAL
13	SPRING	STAINLESS STEEL SAE 316
14	WASHER	STAINLESS STEEL SAE 316
15	BOLT AND NUT	STAINLESS STEEL SAE 316
16	STERN	STAINLESS STEEL SAE 316
17	BALL VALVE	BRASS ASTM A124/POLYPROPYLENE
18	FLOAT	STAINLESS STEEL SAE 316
19	BODY	STEEL DIN ST 37/ST ST SAE 316/STEEL WCB



ONLY A.R.I. MODEL D-020 SHALL BE USED

NOT TO SCALE

Approved by:

[Signature]

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**SEWAGE AIR
RELEASE VALVE**

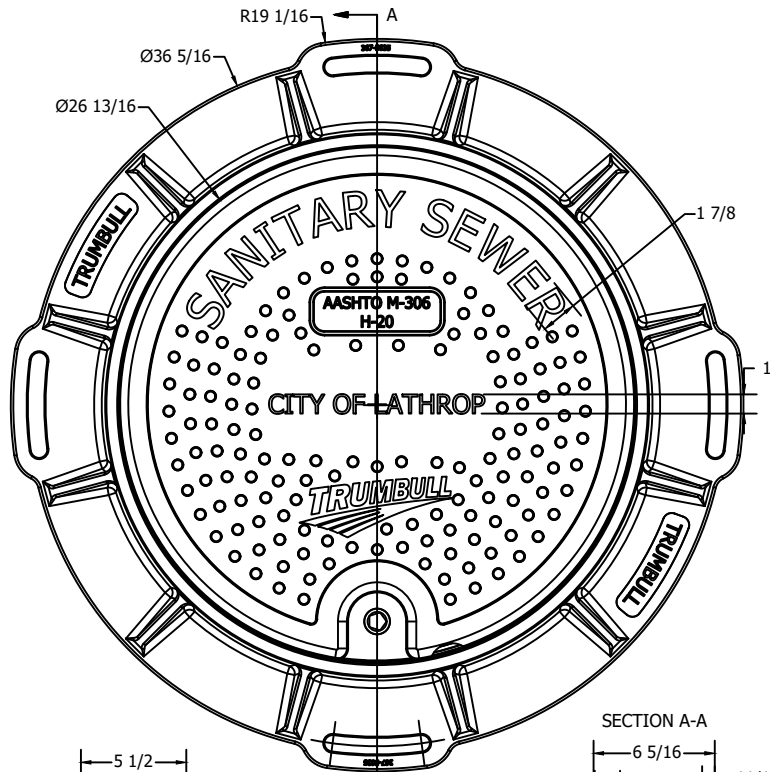


**STANDARD
DETAIL**

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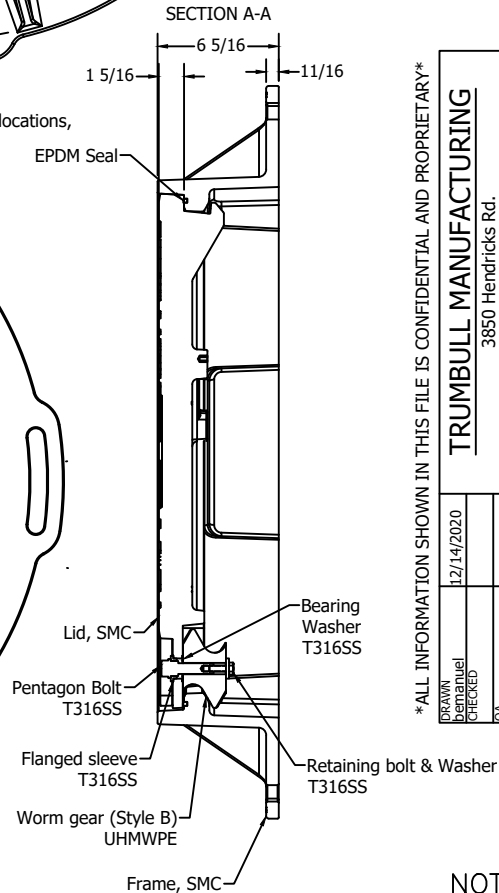
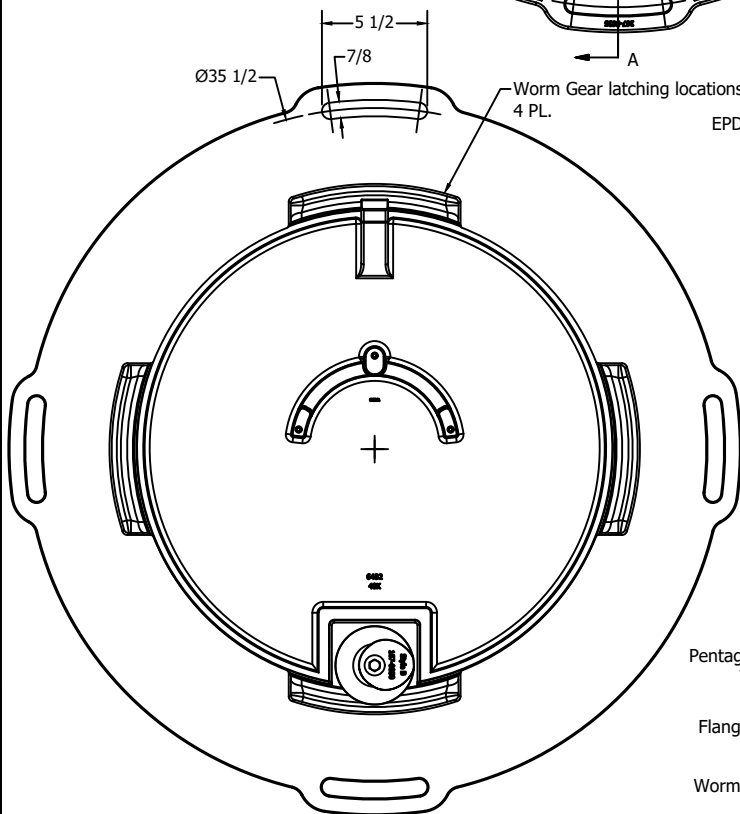
Drawing No:

S-7



Notes:

- 1.) Lid weight = 54 lb., Frame weight = 58 lbs. approx.
- 2.) Loctite (red) to be applied to threads on Retaining Bolt before final assembly.
- 3.) Units in inches



ALL INFORMATION SHOWN IN THIS FILE IS CONFIDENTIAL AND PROPRIETARY

DRAWN		12/14/2020	TRUMBULL MANUFACTURING	
CHECKED			3850 Hendricks Rd.	
QA			Youngstown, Ohio 44515	
			PH. 330-392-1323 FAX 330-392-1398	
			25-1/2" x 1-1/4" Lid w/ Frame	
			DWG NO	
			REV	
			Lid 6432, Frame 367-5635	
			SUBMITTAL	
			SHEET 1 OF 1	
			NTS	
			SCALE	
			PRODUCT FAMILY	
			Meter & Sewer Lids	
			PRODUCT SIZE	
			25-1/2" OD (40,000lb)	
			Sanitary Sewer - City of Lathrop	

NOT TO SCALE

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[Signature]

City Of Lathrop
Public Works Director

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CITY OF LATHROP
DEPARTMENT OF PUBLIC WORKS
**COMPOSITE MANHOLE
COVER WITHIN 500'
OF PUMP STATION**

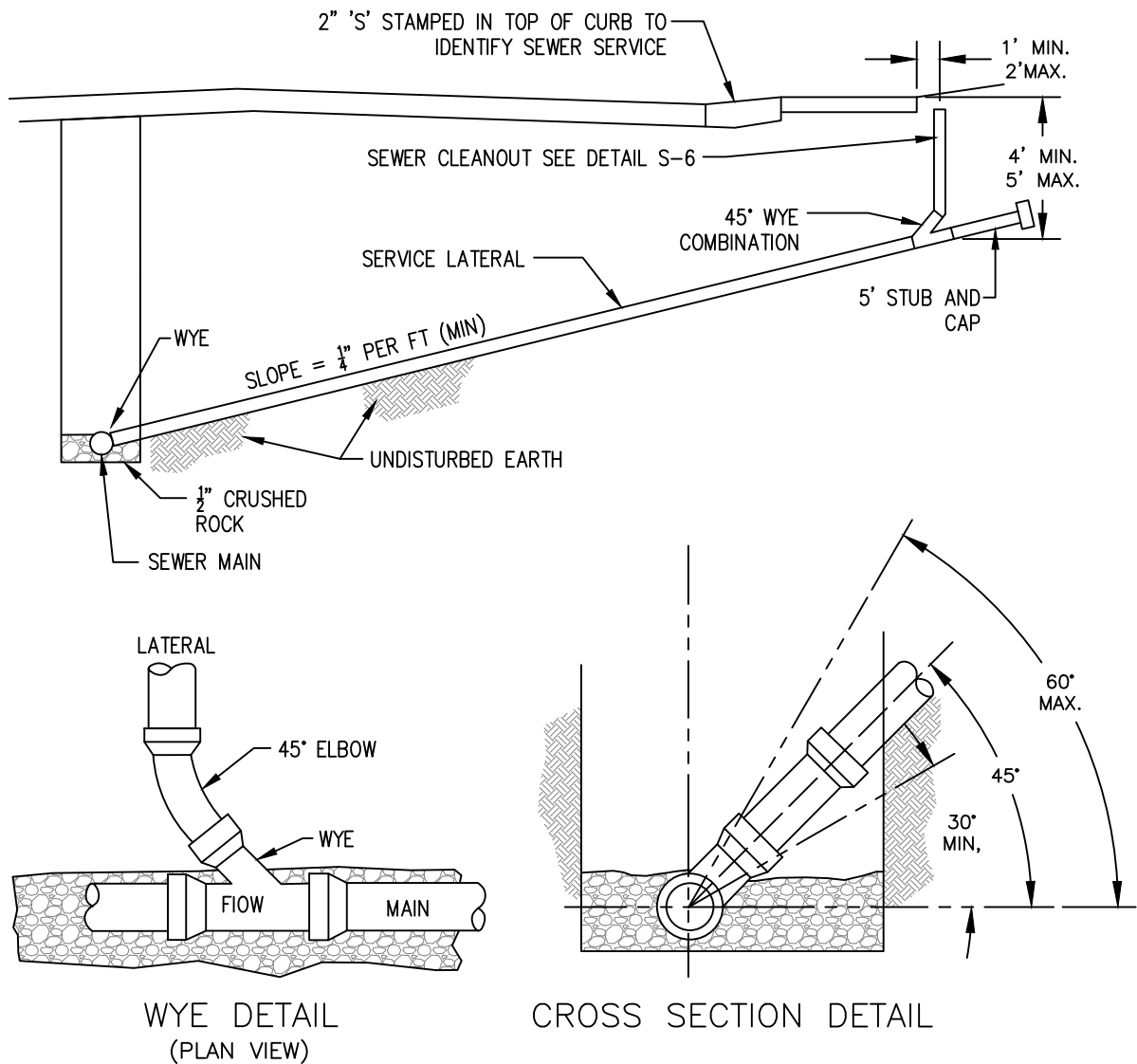


**STANDARD
DETAIL**

Date: **FEBRUARY 2022**

Drawing No:

S-8



NOTES:

1. All services shall be 4" inside diameter or as shown on plan.
2. See standard detail S-6 for required cleanouts & boxes.

NOT TO SCALE

Approved by:

[Signature]

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Public Works Director

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CITY OF LATHROP
DEPARTMENT OF PUBLIC WORKS

**SANITARY SEWER
LATERAL**



**STANDARD
DETAIL**

Date: **FEBRUARY 2022**

Drawing No:

S-9