

Sheet 160      **Surveyor's Name** Brian Kauppenin      **Certificate Number** U-218-070300218      **Date** 20241230  
**System Owner**      **Survey Customer**      **Time** 15:28  
**Drainage Area**      **Locality/City Name** Tulsa  
**P.O. No**      **Location (No. & Name)** 3327 S 120th E Ave  
**Further Location Details**      **Inspection Level** Level 2  
**Outgoing Rim to Invert** 11.1 ft      **Outgoing Grade to Invert** 10.9 ft      **Rim to Grade** 0.2 ft  
**Use of Sewer** Sanitary      **Year Laid**      **Year Rehabilitated**      **Media Label**  
**Purpose** Sewer System Evaluation Survey      **Sewer Category**  
**Pre-Cleaning** No Pre-Cleaning      **Date Cleaned**      **Weather**  
**Location Code** Yard      **Potential for Runoff**      **Evidence of Surcharge** Yes  
**Access Point Type** Manhole      **Coordinate System**  
**Northing**      **Easting**      **Elevation**      **Accuracy of GPS**  
**Inspection Status** Remote Inspection  
**Additional Information** No chimney, cover and frame have some corrosion  
**Node Surface Types**

**Concrete Pavement** ☐      **Concrete Collar** ☐      **Asphalt** ☐      **Grass / Dirt** ☒      **Gravel** ☐      **Other** ☐

**Cover**

**Cover Shape** Circular      **Cover Bearing Surface Diameter Width**  
**Cover Size** 23.3 in      **Cover Bearing Surface Diameter** 23.0 in  
**Civer Size Width**      **# Vent Holes**  
**Cover Material** Cast Iron      **Vent Hole Diameter**  
**Cover Frame Fit** Good  
**Cover Type**  
☒ **Solid**      ☐ **Bolted**  
☐ **Vented/Slots**      ☐ **Locking**  
☐ **Gasketed**      ☐ **Lamphole**  
☐ **Hatch Single**      ☐ **Inner Cover**  
☐ **Hatch Double**  
**Cover Condition**  
☒ **Solid**      ☐ **Missing**  
☐ **Cracked**      ☐ **Corroded/Pitted**  
☐ **Broken**      ☐ **Bolts Missing**  
☐ **Restraint Missing**  
☐ **Restraint Defective**

**Cover Insert**

**Cover Insert Type** None      **Cover Insert Condition**  
☐ **Solid**      ☐ **Leaking**  
☐ **Poorly Fitting**      ☐ **Corroded**  
☐ **Cracked/Torn/Holes**      ☐ **Insert Fell**

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**Adj. Ring**

Adjustment Ring Type None

Adjustment Ring Material

Adjustment Ring Height

**Adjustment Ring Condition**☐ Sound☐ Corroded/Pitted/Worn☐ Cracked☐ Leaking☐ Broken☐ Poor Installation**Frame**

Frame Material Cast Iron

Frame Offset Distance 0.0 in

Frame Bearing Surface Width 0.8 in

Frame Depth

Frame Bearing Surface Depth 1.0 in

Frame Seal Inflow None

Frame Clear Opening Diameter 21.8 in

**Frame Condition**☒ Sound☐ Missing☐ Cracked☐ Corroded/Pitted/Worn☐ Broken☐ Coated**Frame Seal Condition**☒ Sound☐ Loose/Not Attached☐ Cracked☐ Broken☐ Offset**Chimney**

Chimney Material 1 Other

Interior Chimney Coating/Liner None - No Coating

Chimney Material 2

Exterior Chimney Coating/Liner

Chimney Clear Opening

Chimney I/I

Chimney Depth 0.0 in

**Cone**

Cone Type Conical centered

Cone Depth 3.3 in

Exterior Cone Coating/Liner

Cone Material Brick

Interior Cone Coating/Liner

**Wall**

Wall Diameter 1 52

Wall Depth 10.3 in

Wall Diameter 2

Interior Wall Coating/Liner Cementitious

Wall Material Brick

Exterior Wall Coating/Liner

**Bench**

Bench Present Y

Bench Material Concrete (non-reinforced)

Bench Coating/Liner Bench Liner

**Channel/Step****Channel**

Channel Material Concrete (non-reinforced)

Channel Type Concrete (non-reinforced)

Channel Exposure F

Channel Installed Y

**Step**

# Steps 6

Step Material Metal

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**Pipe Connections**

Num	Clk	Rim to Pos	Invert	Direc	Material	Shape	Diam	Width	Pipe Cond	Seal Cond	Special Condition	PSR
1	6	11.1		O	VCP	C	15		S	S	GR	Auto Pipe 235B
	Mainline		Comments									
2	9	11.0		I	VCP	C	15		S	S	GR	Auto Pipe 236B
	Mainline		Comments									
3	12	7.0		I	VCP	C	8		S	D	OU	Auto Pipe 237B
	Mainline		Comments									
4	12	10.3		I	VCP	C	8		S	S	OL	Auto Pipe 238B
	Mainline		Comments									

**Observations**

Distance	Comp	Code	CD	Jnt	Stp	%	In1	In2	Fr	To	Video Reference
2.0 ft	COI	OBP				5			12		360-0.0
	Remarks	Cable enters and appears to exits 2 feet under									
7.0 ft	WI	CC							12	1	360-0.0
	Remarks	Pipe seal 3									
7.0 ft	WI	IS							12		360-0.0
	Remarks	Pipe seal 3									
7.1 ft	WI	DAR				5			7	8	360-0.0
	Remarks	On 3 steps									
7.3 ft	WI	IS							3	4	360-0.0
	Remarks										
7.3 ft	WI	LFPH							3	4	360-0.0
	Remarks										
8.8 ft	WI	LFZ							2	6	360-0.0
	Remarks	Exposed bricks									
9.7 ft	WI	DAE				5			7		360-0.0
	Remarks										
9.8 ft	WI	IW							1	5	360-0.0
	Remarks										
9.8 ft	WI	MMS							1	5	360-0.0
	Remarks										
10.0 ft	WI	IW							7		360-0.0
	Remarks	Do not see crack at origin									