

Sheet 78      **Surveyor's Name** Brian Kauppenin      **Certificate Number** U-218-070300218      **Date** 20241219  
**System Owner**      **Survey Customer**      **Time** 11:38  
**Drainage Area**      **Locality/City Name** Tulsa  
**P.O. No**      **Location (No. & Name)** 9399 E 16th St  
**Further Location Details** NE of address given      **Inspection Level** Level 2  
**Outgoing Rim to Invert** 19.6 ft      **Outgoing Grade to Invert** 17.3 ft      **Rim to Grade** 2.3 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** Easement/Right of Way      **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, wall is square  
**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**

- |                                  |   |
|----------------------------------|---|
| <input type="checkbox"/> Sound   | <input type="checkbox"/> Corroded/Pitted/Worn |
| <input type="checkbox"/> Cracked | <input type="checkbox"/> Leaking              |
| <input type="checkbox"/> Broken  | <input type="checkbox"/> 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**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Sound | <input type="checkbox"/> Missing              |
| <input type="checkbox"/> Cracked          | <input type="checkbox"/> Corroded/Pitted/Worn |
| <input type="checkbox"/> Broken           | <input type="checkbox"/> Coated               |

**Frame Seal Condition**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Sound | <input type="checkbox"/> Loose/Not Attached |
| <input type="checkbox"/> Cracked          |   |
| <input type="checkbox"/> Broken           | <input type="checkbox"/> 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 off centered

Cone Depth 5.5 in

Exterior Cone Coating/Liner Cementitious

Cone Material Concrete (reinforced)

Interior Cone Coating/Liner Cementitious

**Wall**

Wall Diameter 1 47

Wall Depth 16.4 in

Wall Diameter 2

Interior Wall Coating/Liner Cementitious

Wall Material Concrete (reinforced)

Exterior Wall Coating/Liner

**Bench**

Bench Present Y

Bench Material Concrete (non-reinforced)

Bench Coating/Liner Bench Liner

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

Channel Material Concrete (reinforced)

Channel Type Concrete (reinforced)

Channel Exposure F

Channel Installed Y

**Step**

# Steps 11

Step Material Plastic

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**Pipe Connections**

Num	Clk Rim to		Direc	Material	Shape	Diam	Width	Pipe Cond	Seal Cond	Special	
	Pos	Invert								Condition	PSR
1	6	19.6	O	RCP	C	54		D	S	GR	Auto Pipe 41B
	Mainline		Comments								
2	12	19.5	I	RCP	C	54		D	S	GR	Auto Pipe 42B
	Mainline		Comments								

**Observations**

Distance	Comp	Code	CD	Jnt	Stp	%	In1	In2	Fr	To	Video Reference	
1.1 ft	COE	CM							12	12	360-0.0	
	Remarks											
1.1 ft	COE	DAE				5			12	12	360-0.0	
	Remarks											
2.6 ft	COI	MGO									360-0.0	
	Remarks		Water mark									
5.1 ft	COI	DAR				5			10	11	360-0.0	
	Remarks											
5.6 ft	WI	FC							12	12	360-0.0	
	Remarks											
5.9 ft	WI	DAR				5			10	11	360-0.0	
	Remarks											
12.3 ft	WI	LFD							2	8	360-0.0	
	Remarks		Underside of MSC									
12.3 ft	WI	MSC					48	96			360-0.0	
	Remarks		Based off GIS, poor point cloud									
16.5 ft	B	DSF				5			12	12	360-0.0	
	Remarks											