

Sheet 56 **Surveyor's Name** Brian Kauppenin **Certificate Number** U-218-070300218 **Date** 20241218
System Owner **Survey Customer** **Time** 09:17
Drainage Area **Locality/City Name** Tulsa
P.O. No **Location (No. & Name)** 9601 E 21st Pl
Further Location Details Near Mingo Trail west of given address **Inspection Level** Level 2
Outgoing Rim to Invert 17.9 ft **Outgoing Grade to Invert** 17.9 ft **Rim to Grade** 0.0 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, channel is brick, wall diameter approximate from GIS/point cloud, unable to get exact measurement

Node Surface Types

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

Cover

Cover Shape Circular **Cover Bearing Surface Diameter Width**
Cover Size 31.5 in **Cover Bearing Surface Diameter** 31.0 in
Cover 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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Survey Date 20241218

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Inspection Level Level 2

Locality/City Name Tulsa

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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 1.5 in

Frame Seal Inflow None

Frame Clear Opening Diameter 30.0 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 type="checkbox"/> Sound | <input type="checkbox"/> Loose/Not Attached |
| <input checked="" type="checkbox"/> Cracked | |
| <input type="checkbox"/> Broken | <input type="checkbox"/> Offset |

Chimney

Chimney Material 1 Other

Interior Chimney Coating/Liner

Chimney Material 2

Exterior Chimney Coating/Liner

Chimney Clear Opening

Chimney I/I

Chimney Depth 0.0 in

Cone

Cone Type Flattop

Cone Depth 1.1 in

Exterior Cone Coating/Liner

Cone Material Concrete (reinforced)

Interior Cone Coating/Liner

Wall

Wall Diameter 1 96

Wall Depth 14.0 in

Wall Diameter 2

Interior Wall Coating/Liner Epoxy

Wall Material Concrete (reinforced)

Exterior Wall Coating/Liner

Bench

Bench Present Y

Bench Material Brick

Bench Coating/Liner Bench Liner

Channel/Step**Channel**

Channel Material	Other
Channel Type	Other
Channel Exposure	F
Channel Installed	Y

Step

# Steps	9
Step Material	Plastic

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Pipe Connections

Num	Clk Pos	Rim to Invert	Direc	Material	Shape	Diam	Width	Pipe Cond	Seal Cond	Special Condition	PSR
1	6	17.9	O	RCP	C	48		S	S	GR	Auto Pipe 3B
	Mainline		Comments								
2	12	17.8	I	RCP	C	48		S	D	GR	Auto Pipe 4B
	Mainline		Comments								

Observations

Distance	Comp	Code	CD	Jnt	Stp	%	In1	In2	Fr	To	Video Reference
1.2 ft	WI	IS		Y					12	12	360-0.0
	Remarks										
3.5 ft	WI	IS							8	9	360-0.0
	Remarks										
3.5 ft	WI	RPP							8	9	360-0.0
	Remarks Epoxy repair patch										
5.7 ft	WI	IS		Y					12	12	360-0.0
	Remarks										
6.4 ft	WI	RPP							6	7	360-0.0
	Remarks Epoxy										
6.7 ft	WI	DAR	S01			5			2	3	360-0.0
	Remarks										
7.1 ft	WI	IS							6	7	360-0.0
	Remarks From repair patch										
11.7 ft	WI	RPP							12	1	360-0.0
	Remarks Epoxy										
12.1 ft	WI	DAR	F01			5			2	3	360-0.0
	Remarks										
13.8 ft	WI	DAE				5			5		360-0.0
	Remarks Pipe seal 2										