

Sheet 130 **Surveyor's Name** Brian Kauppenin **Certificate Number** U-218-070300218 **Date** 20241226
System Owner **Survey Customer** **Time** 08:25
Drainage Area **Locality/City Name** Tulsa
P.O. No **Location (No. & Name)** 9413 E 16th St
Further Location Details NE of address given **Inspection Level** Level 2
Outgoing Rim to Invert 18.3 ft **Outgoing Grade to Invert** 17.3 ft **Rim to Grade** 1.0 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, MSC, Approximate wall size 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 31.3 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**

Sheet 130

Survey Date 20241226

P.O. No

Location (No. & Name) 9413 E 16th St

Inspection Level Level 2

Locality/City Name Tulsa

Inspection Status Remote Inspection

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 1.0 in

Frame Depth

Frame Bearing Surface Depth 1.0 in

Frame Seal Inflow None

Frame Clear Opening Diameter 29.0 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 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 Cementitious

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 6.2 in

Exterior Cone Coating/Liner

Cone Material Concrete (reinforced)

Interior Cone Coating/Liner

Wall

Wall Diameter 1 48

Wall Depth 16.0 in

Wall Diameter 2

Interior Wall Coating/Liner None - No Coating

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

Sheet 130

Survey Date 20241226

P.O. No

Location (No. & Name) 9413 E 16th St

Inspection Level Level 2

Locality/City Name Tulsa

Inspection Status Remote Inspection

Pipe Connections

Num	Clk	Rim to Pos	Invert	Direc	Material	Shape	Diam	Width	Pipe Cond	Seal Cond	Special Condition	PSR
1	6	18.3		O	RCP	C	54		D	S	GR	Auto Pipe 166B
	Mainline			Comments		Pipe appears to be slip lined, rehabbed with PE or plastic pipe, diameter of inner pipe appears smaller than original 54 inch, inner measurement at 52/53 inches						
2	11	16.4		I	VCP	C	8		S	S	LB	Auto Pipe 167B
	Mainline			Comments								
3	12	18.2		I	RCP	C	54		D	S	GR	Auto Pipe 168B
	Mainline			Comments		Pipe appears to be slip lined, rehabbed with PE or plastic pipe, diameter of inner pipe appears smaller than original 54 inch, inner measurement at 52/53 inches						
4	3	15.8		I	DIP	C	8		D	D	LB	Auto Pipe 169B
	Mainline			Comments								

Observations

Distance	Comp	Code	CD	Jnt	Stp	%	In1	In2	Fr	To	Video Reference
1.0 ft	COI	IS							12	12	360-0.0
	Remarks										
1.0 ft	COI	LFZ							12	12	360-0.0
	Remarks Exposed bricks										
1.0 ft	COI	MMS							12	12	360-0.0
	Remarks										
1.7 ft	COI	MGO									360-0.0
	Remarks Water mark										
7.6 ft	WI	SAV							12	12	360-0.0
	Remarks										
9.7 ft	WI	IS		Y					9	12	360-0.0
	Remarks										
9.7 ft	WI	MSC					48	96			360-0.0
	Remarks Approximate from GIS/point cloud, unable to get exact measurement										
9.7 ft	WI	SAP	S01						7	2	360-0.0
	Remarks										
13.9 ft	WI	IW							2	3	360-0.0
	Remarks Coming from a previous metal step, cannot see a crack										
15.9 ft	WI	SAP	F01						7	2	360-0.0
	Remarks										
16.4 ft	B	SAP							12	2	360-0.0
	Remarks										