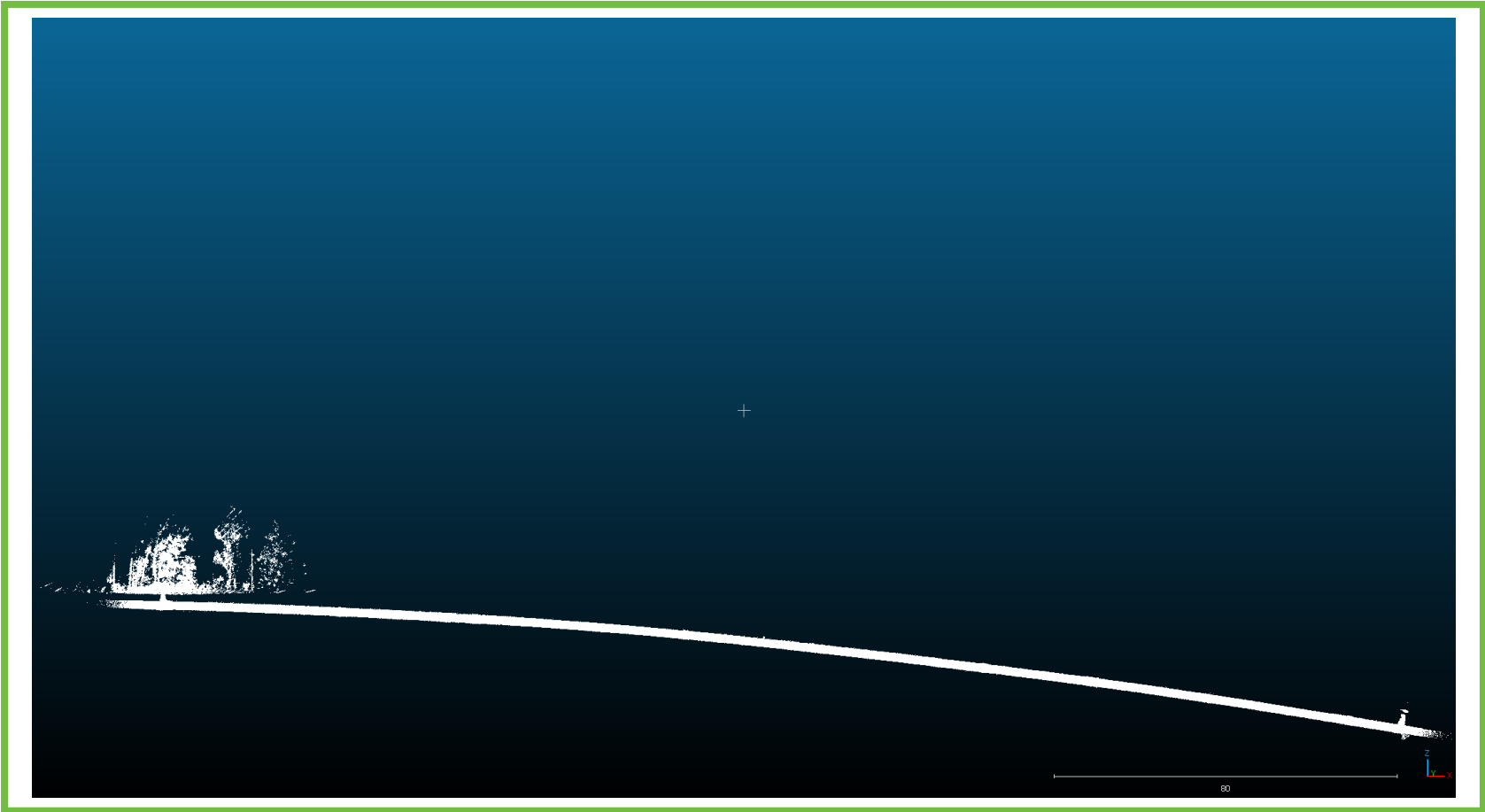
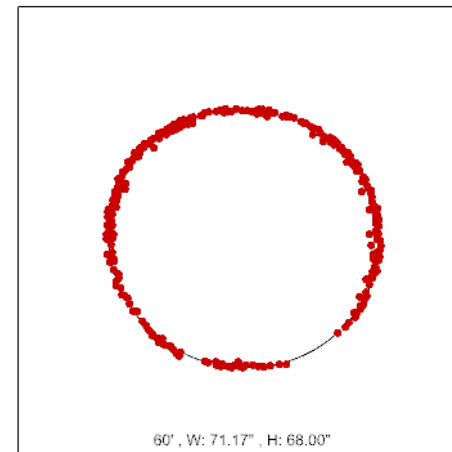
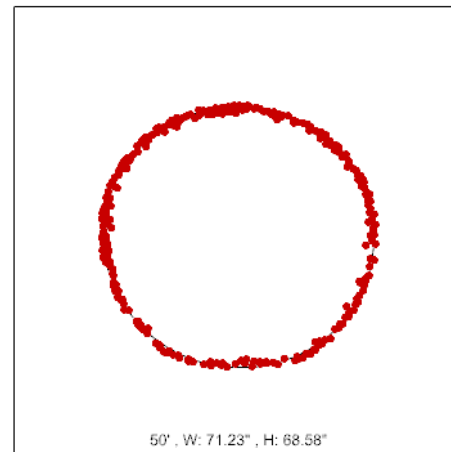
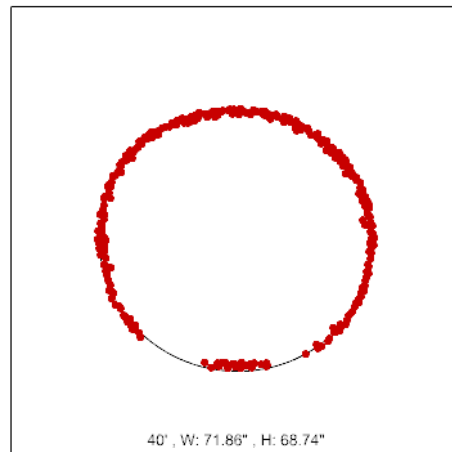
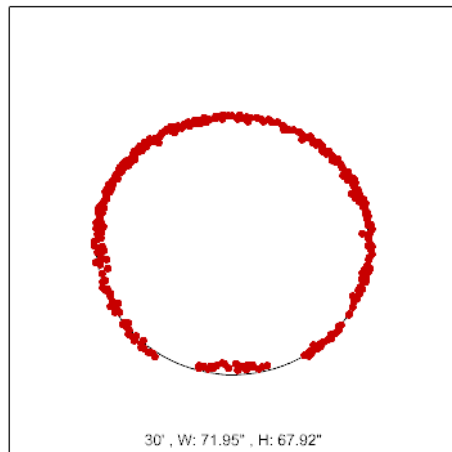
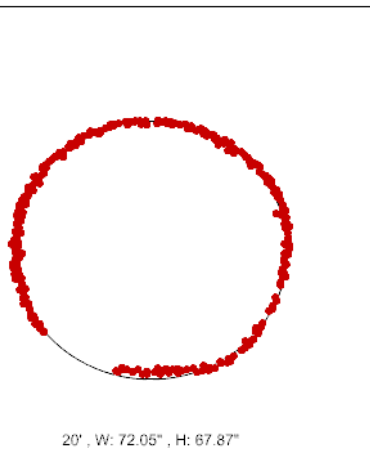
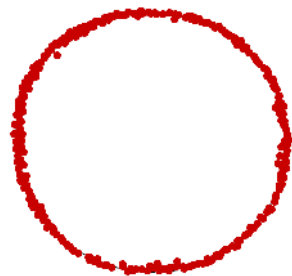




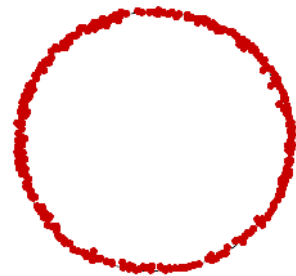
<b>Inspection</b>	Marion County, Ohio
<b>US Manhole</b>	7
<b>DS Manhole</b>	6
<b>Inspected</b>	October 3, 2024
<b>Platform</b>	Aerial Drone
<b>Sensor</b>	3D Lidar
<b>Report Date</b>	October 29, 2024







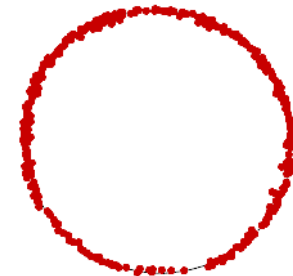
70' , W: 71.33" , H: 68.53"



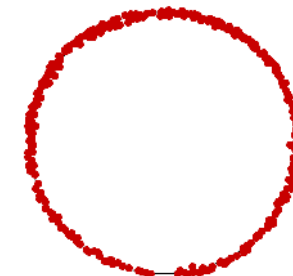
80' , W: 71.70" , H: 68.21"



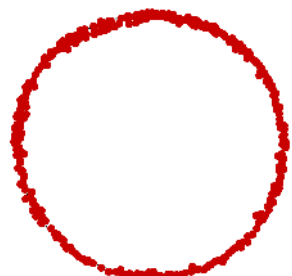
90' , W: 71.14" , H: 68.96"



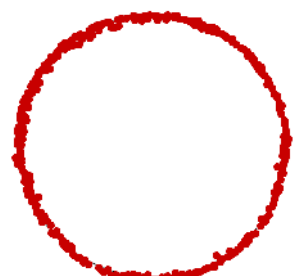
100' , W: 70.47" , H: 69.00"



110' , W: 70.63" , H: 68.77"



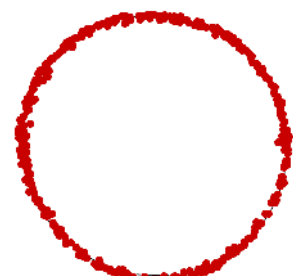
120' , W: 70.50" , H: 68.91"



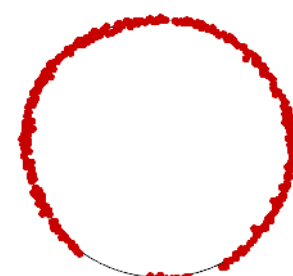
130' , W: 70.31" , H: 69.92"



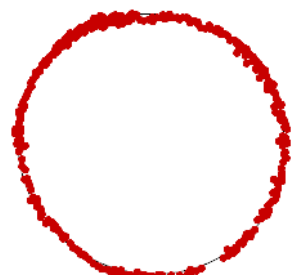
140' , W: 70.01" , H: 69.57"



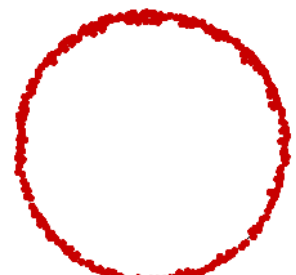
150' , W: 69.84" , H: 68.65"



160' , W: 70.20" , H: 67.99"



170' , W: 70.23" , H: 68.42"



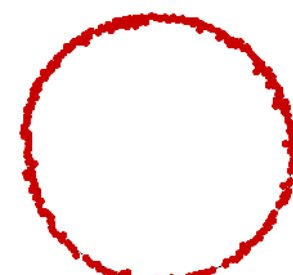
180' , W: 70.13" , H: 69.77"



190' , W: 70.17" , H: 69.17"



200' , W: 70.02" , H: 69.59"



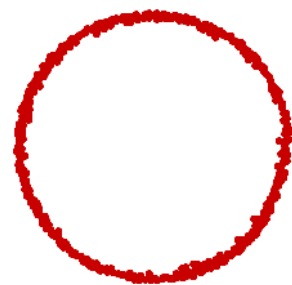
210' , W: 70.30" , H: 68.86"



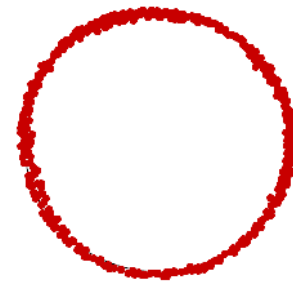
220' , W: 70.65" , H: 69.27"



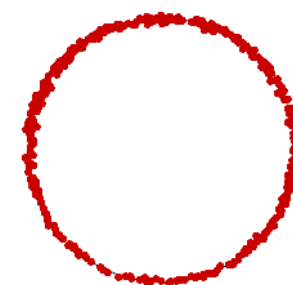
230' , W: 70.66" , H: 68.11"



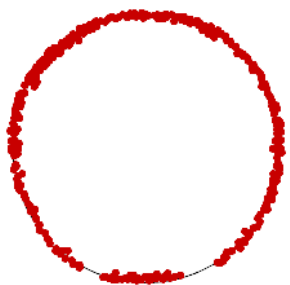
240' , W: 70.24" , H: 68.89"



250' , W: 70.16" , H: 68.24"



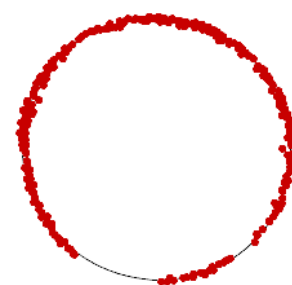
260' , W: 70.19" , H: 69.29"



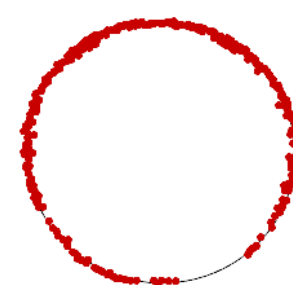
270' , W: 70.03" , H: 70.39"



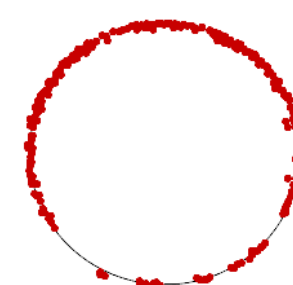
280' , W: 70.36" , H: 69.17"



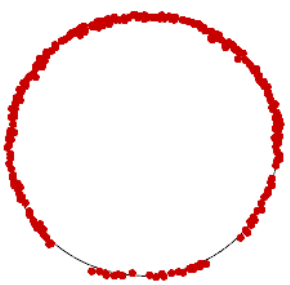
290' , W: 70.67" , H: 68.48"



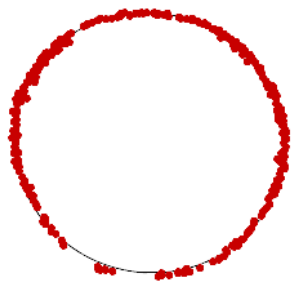
300' , W: 70.56" , H: 68.29"



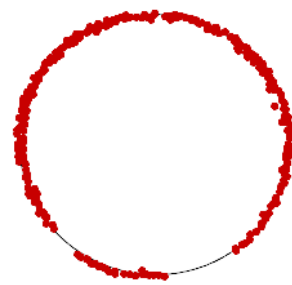
310' , W: 71.00" , H: 68.36"



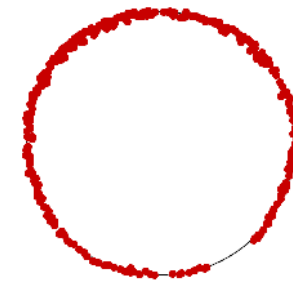
320' , W: 70.66" , H: 68.27"



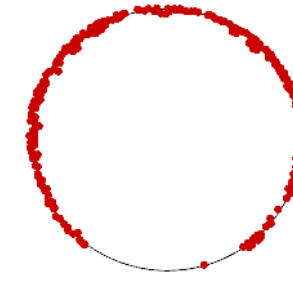
330' , W: 70.76" , H: 68.38"



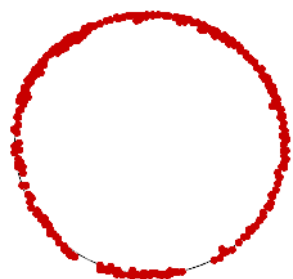
340' , W: 70.81" , H: 68.40"



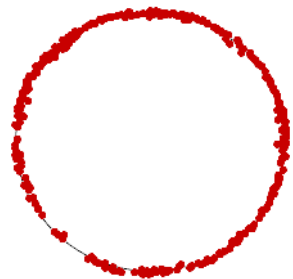
350' , W: 70.40" , H: 69.23"



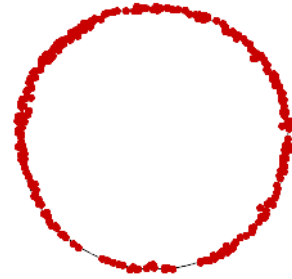
360' , W: 70.66" , H: 68.73"



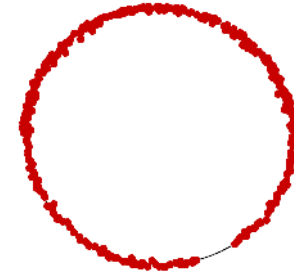
370' , W: 70.79" , H: 68.15"



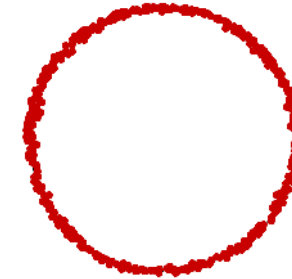
380' , W: 70.74" , H: 68.17"



390' , W: 70.87" , H: 68.97"



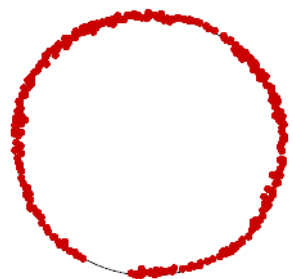
400' , W: 70.35" , H: 67.39"



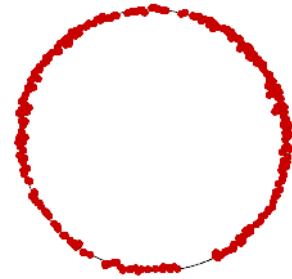
410' , W: 70.30" , H: 69.19"



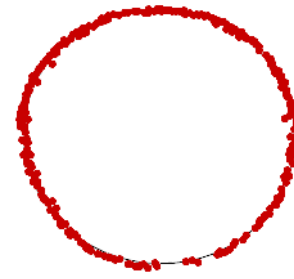
420' , W: 70.97" , H: 68.46"



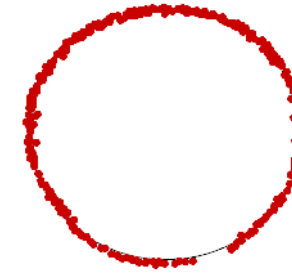
430' , W: 70.40" , H: 68.63"



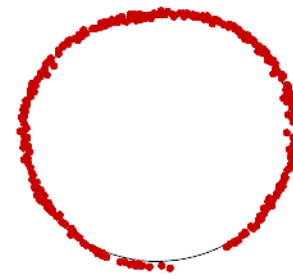
440' , W: 70.44" , H: 68.80"



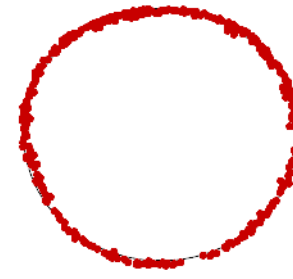
450' , W: 71.62" , H: 66.95"



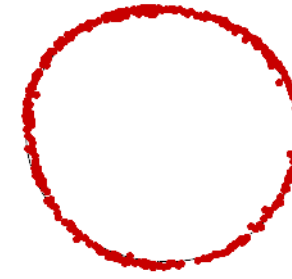
460' , W: 71.58" , H: 66.18"



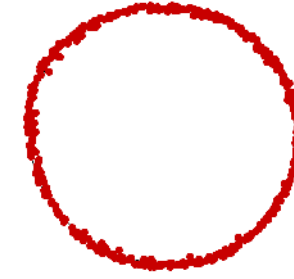
470' , W: 71.77" , H: 65.90"



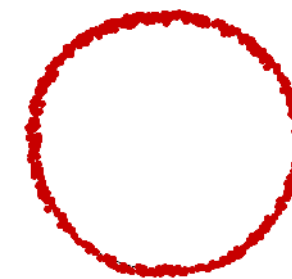
480' , W: 72.18" , H: 66.60"



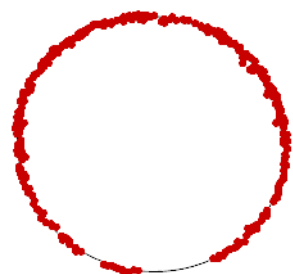
490' , W: 72.18" , H: 67.10"



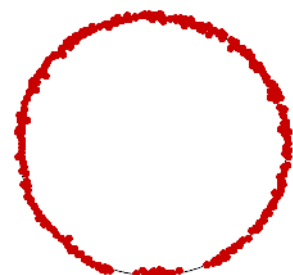
500' , W: 71.07" , H: 68.00"



510' , W: 70.62" , H: 67.66"



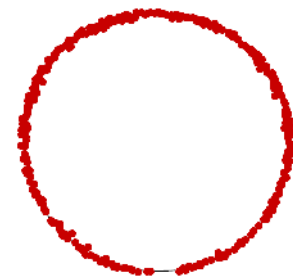
520' , W: 70.82" , H: 67.38"



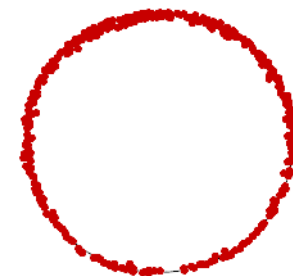
530' , W: 70.69" , H: 68.38"



540' , W: 70.49" , H: 68.11"



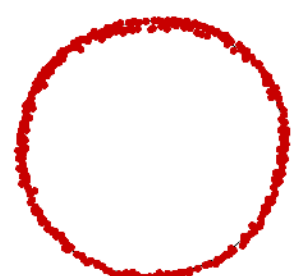
550' , W: 70.35" , H: 68.02"



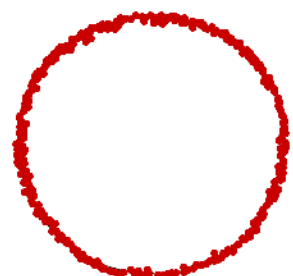
560' , W: 70.38" , H: 68.10"



570' , W: 70.04" , H: 68.67"



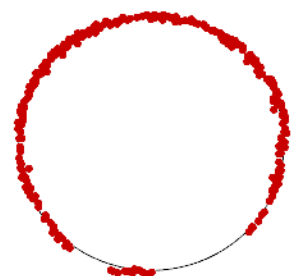
580' , W: 70.04" , H: 67.35"



590' , W: 70.37" , H: 67.85"



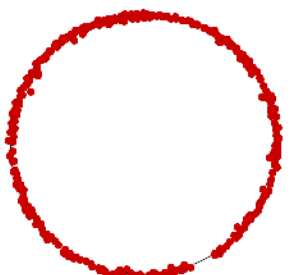
600' , W: 70.91" , H: 67.61"



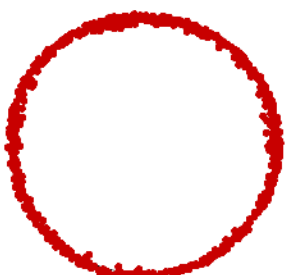
610' , W: 70.25" , H: 67.31"



620' , W: 70.52" , H: 68.28"



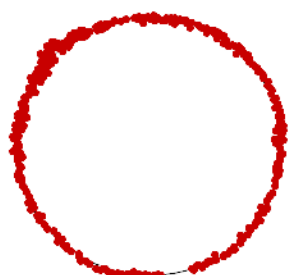
630' , W: 70.33" , H: 68.71"



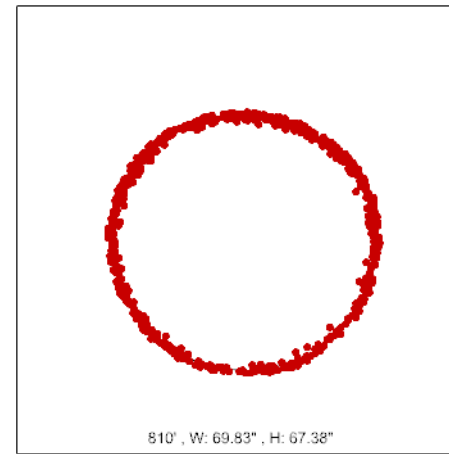
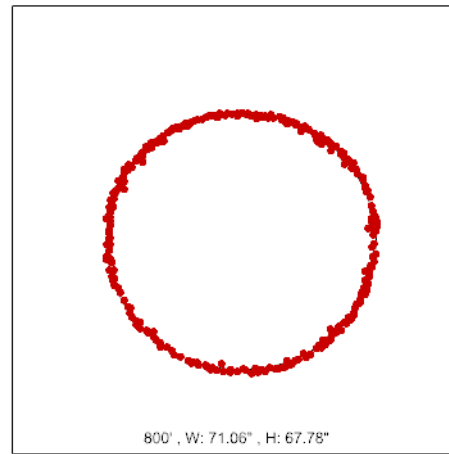
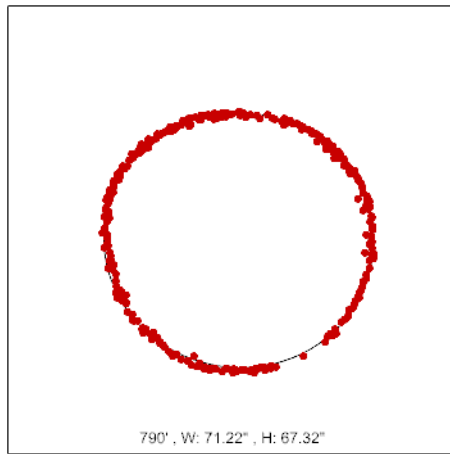
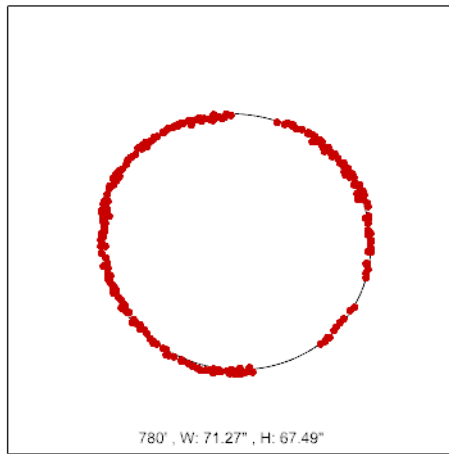
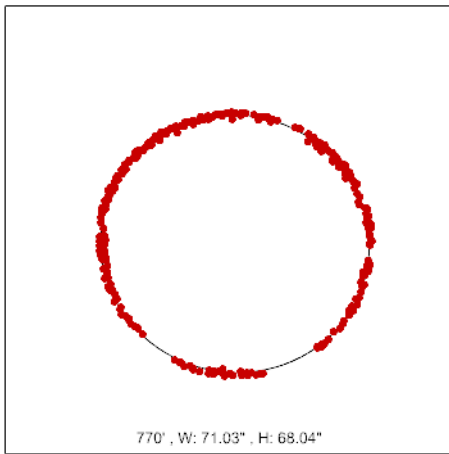
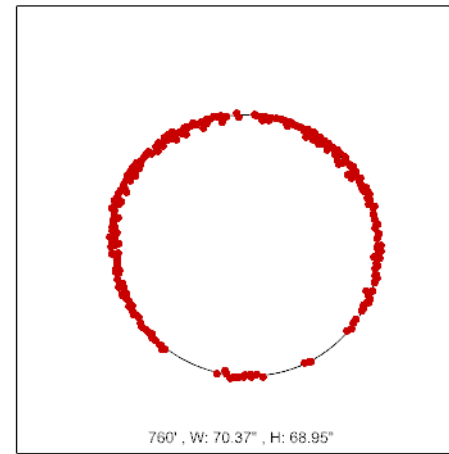
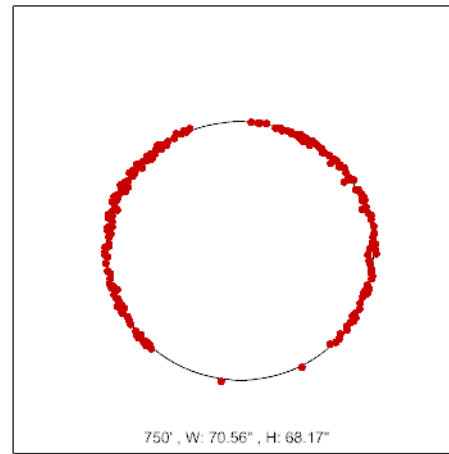
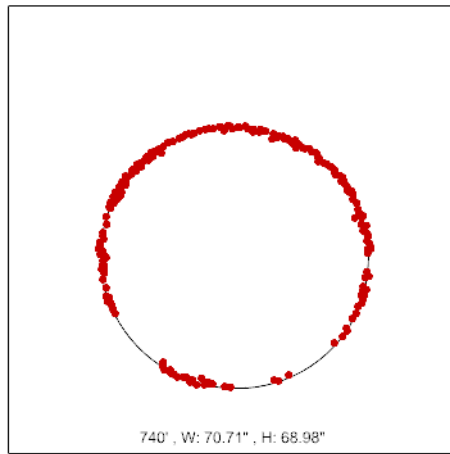
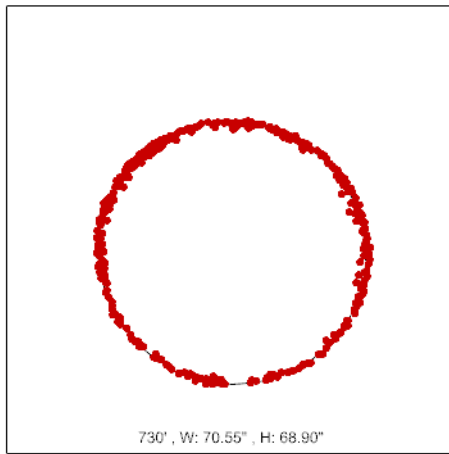
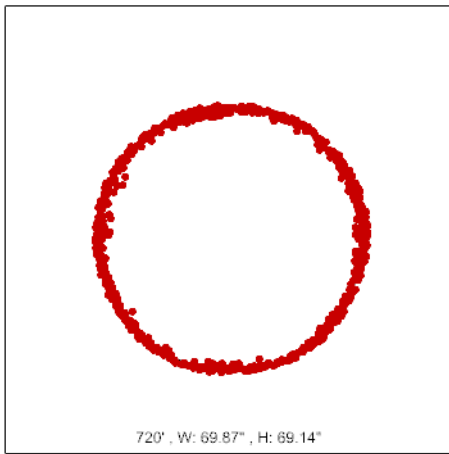
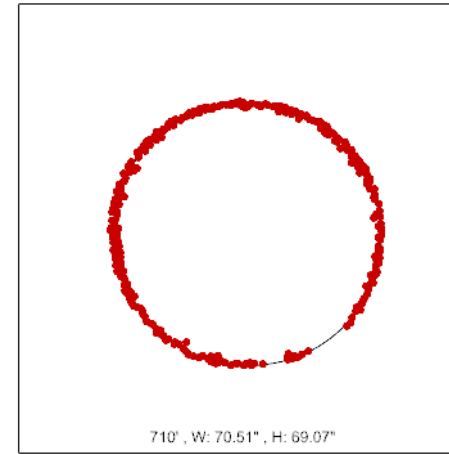
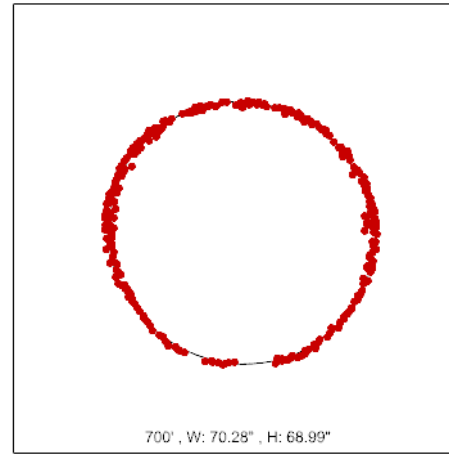
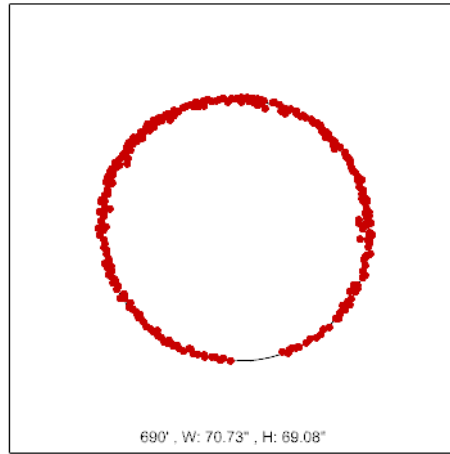
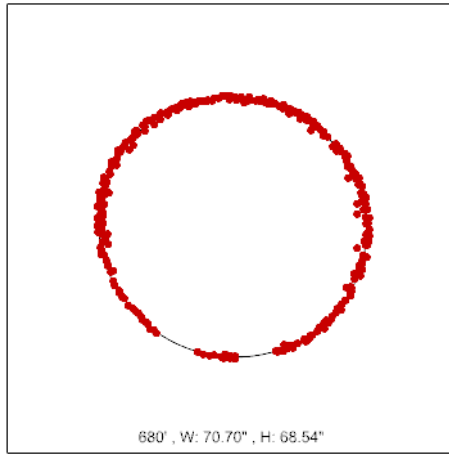
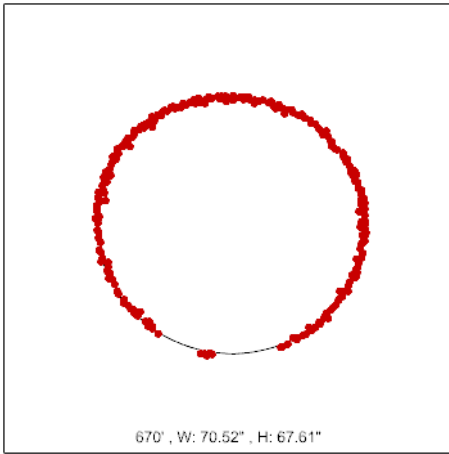
640' , W: 70.30" , H: 67.61"

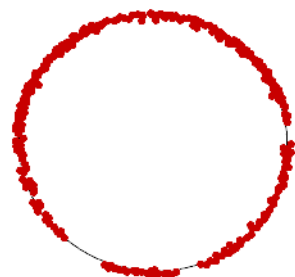


650' , W: 70.38" , H: 68.37"

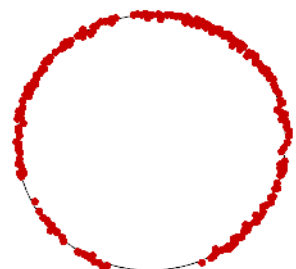


660' , W: 70.47" , H: 68.39"

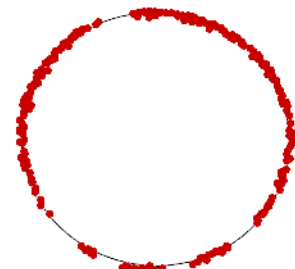




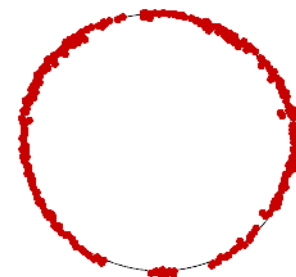
820' , W: 71.09" , H: 67.50"



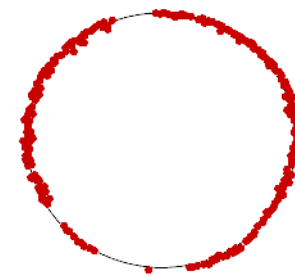
830' , W: 70.94" , H: 67.53"



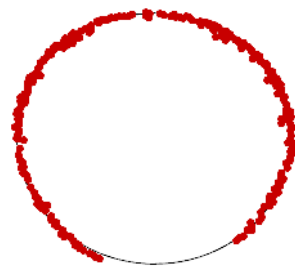
840' , W: 70.91" , H: 66.78"



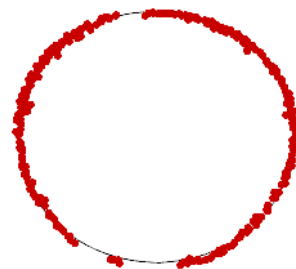
850' , W: 71.41" , H: 67.88"



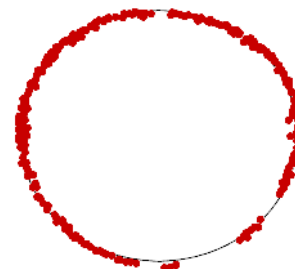
860' , W: 71.10" , H: 67.20"



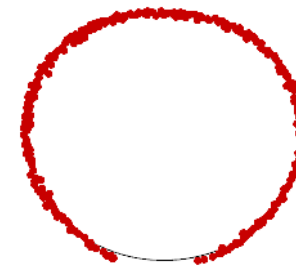
870' , W: 71.89" , H: 65.84"



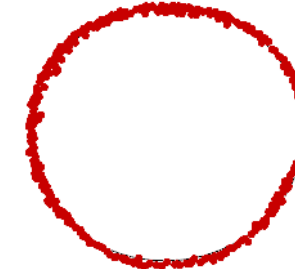
880' , W: 72.77" , H: 65.89"



890' , W: 73.10" , H: 65.78"



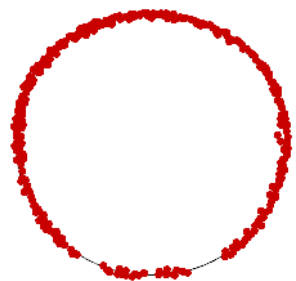
900' , W: 72.79" , H: 65.60"



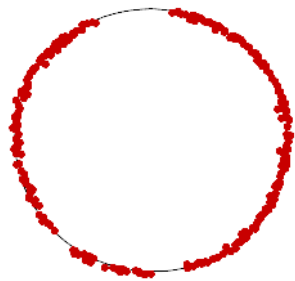
910' , W: 71.95" , H: 67.05"



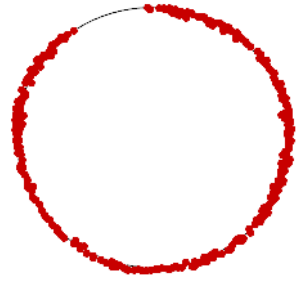
920' , W: 70.38" , H: 69.09"



930' , W: 70.94" , H: 69.05"



940' , W: 71.93" , H: 69.12"



950' , W: 71.94" , H: 68.52"



960' , W: 71.16" , H: 68.81"



DATE: 10/3/2024  
PIPE SEG REF. MH 7 - MH 6  
UP MH: MH 7  
DOWN MH: MH 6

# INSPECTION HEADER

## SUMMARY

<b>Inspection Date</b> 10/3/2024 12:00 AM	<b>Pipe Segment Reference</b> MH 7 - MH 6	<b>Surveyed By</b> SHAWN DUNNELL	<b>Certificate Number</b> U-915-70001437
<b>Project</b> 2420053PW	<b>Street</b> HOLLAND RD	<b>Upstream MH</b> MH 7	<b>Downstream MH</b> MH 6
<b>Direction</b> Downstream	<b>Pre-Cleaning</b> No Pre-Cleaning	<b>Total Length (ft)</b>	<b>Length Surveyed (ft)</b> 971

## ASSET

<b>Height (mm)</b> 72	<b>Shape</b> Circular	<b>Material</b> BR	<b>Pipe Use</b> Combined Pipe
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## PROJECT

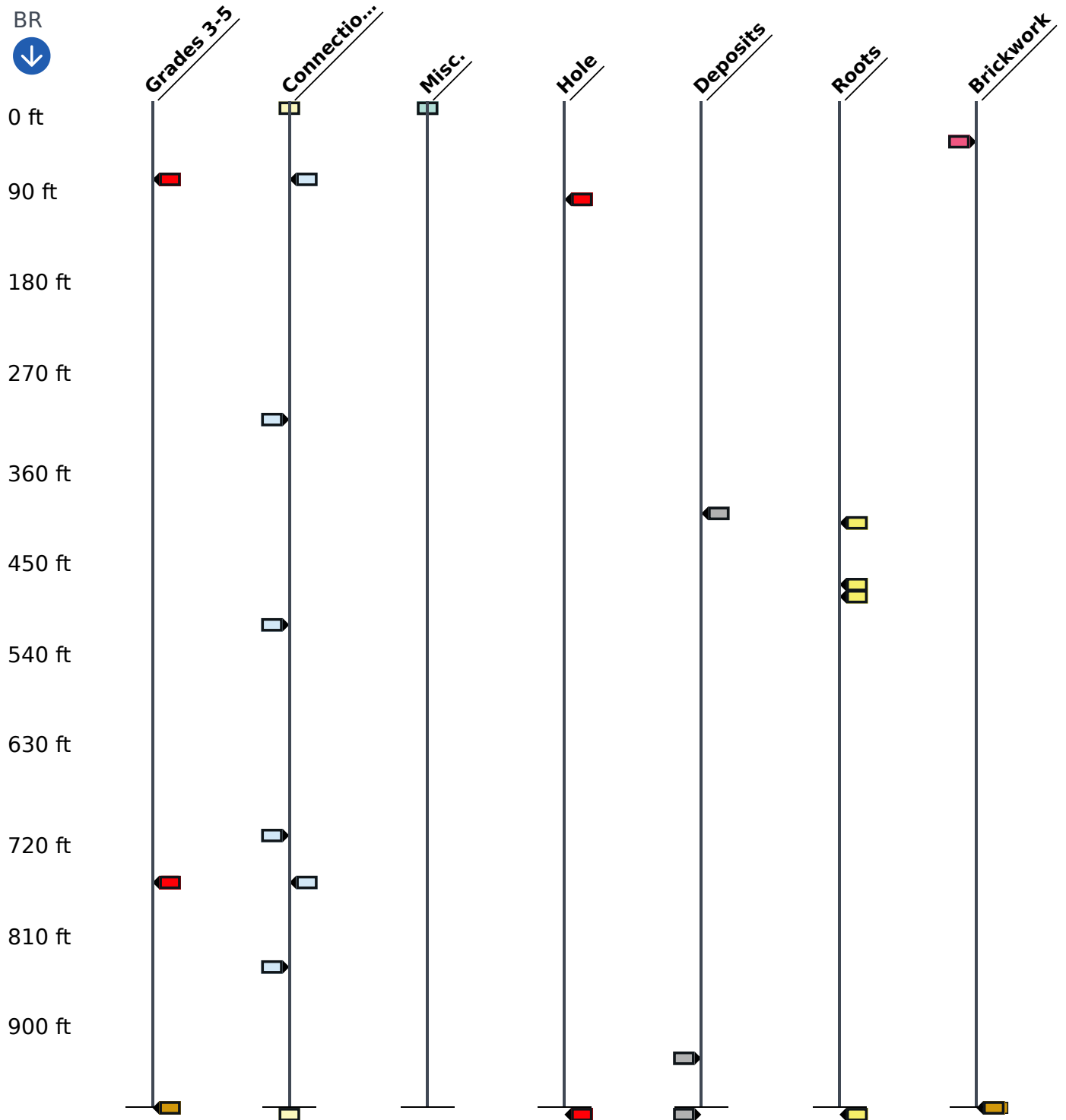
<b>Owner</b> CITY OF MARION	<b>Customer</b> CT CONSULTANTS
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## INSPECTION

<b>Inspection Time</b> 12:00 AM	<b>City</b> MARION	<b>Inspection Status</b> CI	<b>In Feet (Imperial)</b> Yes
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DATE: 10/3/2024  
 PIPE SEG REF. MH 7 - MH 6  
 UP MH: MH 7  
 DOWN MH: MH 6









# SMART DIAGRAM



DATE: 10/3/2024  
 PIPE SEG REF. MH 7 - MH 6  
 UP MH: MH 7  
 DOWN MH: MH 6

# OBSERVATIONS

Dist	Time	Description	Code	Clock	Dim. 1	Dim. 2	%	Remarks	Cont.	Grade
0	0:19	Manhole	AM	-	-	-	-	MH 7	-	-
0	0:21	Miscellaneous Water Level	MW	-	-	-	5	-	-	-
0	0:21	Miscellaneous General Observatio...	MG	-	-	-	-	11.7 FT OFFSET	-	-
31.3	0:38	Missing Mortar Small	MM		-	-	-	-	S01	2
65.3	0:54	Hole Void Visible	HVV		-	-	-	AROUND CONNECTION	-	5
65.3	0:54	Tap Break-in Activity	TBA		24	-	-	-	-	-
284.2	2:15	Roots Fine Joint	RFJ		-	-	-	VARYING POSITION	S02	1
288	2:19	Tap Break-in/Hammer	TB		6	-	-	-	-	-
326.9	2:41	Roots Fine Joint	RFJ		-	-	-	VARYING POSITION	F02	1
334.9	2:43	Roots Fine Joint	RFJ		-	-	-	VARYING POSITION	S03	1
366.5	2:54	Deposits Attached Encrustation	DAE		-	-	5	-	-	2
477.5	3:28	Tap Break-in/Hammer	TB		6	-	-	-	-	-
672.4	4:22	Tap Break-in Activity	TBA		6	-	-	-	-	-
689.7	4:26	Roots Fine Joint	RFJ		-	-	-	VARYING POSITION	F03	1

Dist	Time	Description	Code	Clock	Dim. 1	Dim. 2	%	Remarks	Cont.	Grade
716.3	4:29	Hole Void Visible	HVV		-	-	-	AROUND THE CONNECTION	-	5
716.3	4:29	Tap Break-in Intruding	TBI		24	4	-	ACTIVE	-	2
794.3	4:56	Tap Break-in/Hammer	TB		6	-	-	-	-	-
859	5:33	Deposits Attached Encrustation	DAE		-	-	5	-	S04	2
910.5	5:46	Deposits Attached Encrustation	DAE		-	-	5	-	F04	2
924.3	5:51	Missing Mortar Medium	MM		-	-	-	-	S05	3
930.2	5:57	Missing Mortar Medium	MM		-	-	-	-	F05	3
930.2	5:57	Missing Mortar Small	MBM		-	-	-	-	F01	2
930.2	5:57	Manhole	AMH	-	-	-	-	MH 6	-	-

DATE: 10/3/2024  
PIPE SEG REF. MH 7 - MH 6  
UP MH: MH 7  
DOWN MH: MH 6


# OBSERVATION SNAPSHOTS




**AMH**  
0 ft



**MWL**  
0 ft




**MGO**  
0 ft




**MMS** (2)  
31.3 ft 5 - 7:00




**HVV** (5)  
65.3 ft 8 - 9:00



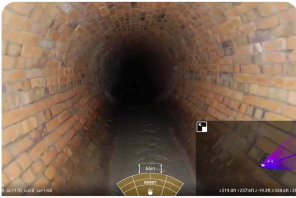
**TBA**  
65.3 ft 9:00



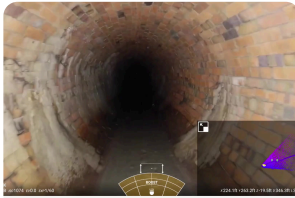
**RFJ** (1)  
284.2 ft 9 - 3:00




**TB**  
288 ft 2:00



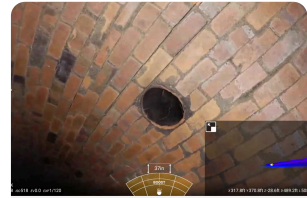
**RFJ** (1)  
326.9 ft 9 - 3:00



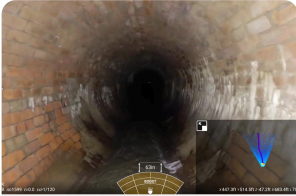
**RFJ** (1)  
334.9 ft 7 - 5:00




**DAE** (2)  
366.5 ft 7 - 5:00



**TB**  
477.5 ft 1:00




**TBA**  
672.4 ft 5:00



**RFJ** (1)  
689.7 ft 7 - 5:00



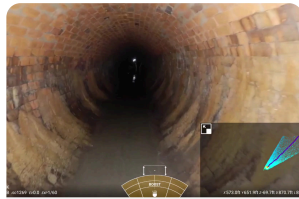
**HVV** (5)  
716.3 ft 9 - 10:00



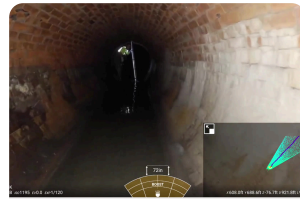
**TBI** (2)  
716.3 ft 10:00



**TB**  
 794.3 ft      1:00



**DAE**      **2**  
 859 ft      3 - 9:00



**DAE**      **2**  
 910.5 ft      3 - 9:00



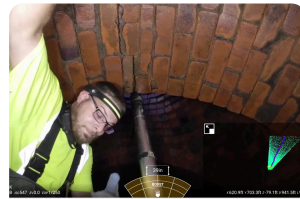
**MMM**      **3**  
 924.3 ft      12:00



**MMM**      **3**  
 930.2 ft      12:00



**MMS**      **2**  
 930.2 ft      5 - 7:00



**AMH**  
 930.2 ft

**DATE:** 10/3/2024  
**PIPE SEG REF.** MH 7 - MH 6  
**UP MH:** MH 7  
**DOWN MH:** MH 6

# RATINGS

<b>PIPE RATING INDEX</b>	<b>Overall</b> 1.7	<b>Structural</b> 2	<b>O&amp;M</b> 1.1
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Sum of all graded conditions divided by the total number of conditions. 0-5 scale.

<b>PIPE RATING</b>	<b>Overall</b> 477	<b>Structural</b> 373	<b>O&amp;M</b> 104
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Sum of all graded conditions.

<b>QUICK RATING</b>	<b>Overall</b> 52 31	<b>Structural</b> 52 31	<b>O&amp;M</b> 2A 10	<b>Likelihood of Failure</b> 5.2
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First digit is highest graded condition. Second digit is count of those conditions (A = 10-14, B = 15-19, etc.). Third digit is second-highest graded condition. Fourth digit is count of those conditions. LoF is Quick Rating divided by 10 (scale from 0-6).

<b>FREQUENCY OF CONDITION GRADES</b>	<b>Grade #</b>	<b>1</b> 4	<b>2</b> 6	<b>3</b> 2	<b>4</b> 0	<b>5</b> 2
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Count of each condition grade in the inspection.