Profile/Photo Observation Report

-		-			ROBOTICS
Date:	08/31/2021	Weather:		Coding:	PACP 7.0
Pipe Length (ft):	160.3	Owner:	City of Hobart	Pre Clean:	Heavy Cleaning
P.O.#:	YES502259	Surveyor:	S. Bucklin	PSR:	P-504-106-105
Customer:	City of Hobart	Clean Date:	08/28/2021	Shape:	С
Street:	42nd Avenue		Flow Control:	Not Controlled	l
City:	Hobart, IN		Year Renewed:		
Location:	Alley		Tape/Media #:		
Purpose:	Routine Assessmen	it	Dia/Height:	12"	
Use:	Sanitary Sewage Pi	ре	Material:	СР	
Drain Area:			Lining:		
Category:	NA				
Comment:					
Location Details:			Direction of Surv	ey: Downstream	
US MH:	И-504-105	DS MH:	M-504-106	Total Length Surveyed (ft): 160.3
D&M Index:	1.96	O&M Quick:	342	F O&M Rating:	92.00
Structural Index:	3.47	Structural Qu	524		111.00
Overall Index:	2.57	Overall Quic	k: 524		203.00

	Position	Code	Observation	Video (sec)	Grade
M-504	105				
\square	.0	AMH	Manhole	1	NA
	.0	MWL	Miscellaneous Water Level	63	NA
	.0	DSF(S01)	Deposits Settled Fine	77	M 2
	20.2	MWLS(S02)	Miscellaneous Water Level Sag	180	S 2
	29.1	ТВ	Tap Break-in/Hammer	267	NA
		MWLS(F02)	Miscellaneous Water Level Sag	296	S 2
	// 34.1	DAE	Deposits Attached Encrustation	346	M 2
	_// 35.7	MWLS(S03)	Miscellaneous Water Level Sag	373	S 2
	49.8	FM(S04)	Fracture Multiple	508	S 4
5	52.6	MMC	Miscellaneous Material Change	570	NA
Camera Direction	// 53.5	TFD	Tap Factory Defective	601	M 3
	/// 55.7	MMC	Miscellaneous Material Change	661	NA
nera	/ 58.5	SMW	Surface Damage Missing Wall	717	S 5
La Ca	_// 58.5	RFJ	Roots Fine Joint	756	M 1
	58.5	SMW	Surface Damage Missing Wall	783	S 5
	58.5	RFJ	Roots Fine Joint	809	M 1
↓⊢∔	\\\ 60.8	MWLS(F03)	Miscellaneous Water Level Sag	837	S 2
- 11	\\\61.5	RFJ	Roots Fine Joint	880	M 1
	67.8	MWLS(S05)	Miscellaneous Water Level Sag	921	S 2

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76.9	JAM	Joint Angular Medium	996	S 3
76.9	LR	Line Right	1013	M 1
79.4	MWLS(F05)	Miscellaneous Water Level Sag	1047	S 2
86.0	MMC	Miscellaneous Material Change	1110	NA
86.9	TFD	Tap Factory Defective	1134	M 3
87.7	IWB	Infiltration Weeper Barrel	1170	M 2
87.8	ISB	Infiltration Stain Barrel	1190	M 1
88.9	MMC	Miscellaneous Material Change	1247	NA
	RFJ	Roots Fine Joint	1391	M 1
125.0	RFB(S06)	Roots Fine Barrel	1505	M 2
/ 131.8	IWB	Infiltration Weeper Barrel	1573	M 2
_/ / 133.4	RFB(F06)	Roots Fine Barrel	1602	M 2
// 146.4	MMC	Miscellaneous Material Change	1722	NA
/ 147.0	TFD	Tap Factory Defective	1758	M 3
// 147.0	RML	Roots Medium Lateral	1778	M 3
// 149.2	MMC	Miscellaneous Material Change	1866	NA
152.0	MMC	Miscellaneous Material Change	1934	NA
	FM(F04)	Fracture Multiple	1953	S 4
160.1	DSF(F01)	Deposits Settled Fine	2070	M 2
/ 160.3	AMH	Manhole	2165	NA

M(504)106



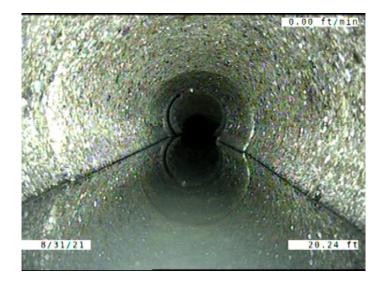
Code: Description:	AMH Manhole
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value:	.0 0 0
2nd Value: Value Percent: Continuous Index: Within 8" of Joint: Remarks:	NO M-504-105



Code: Description:	MWL Miscellaneous Water Level
Distance (ft):	.0
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



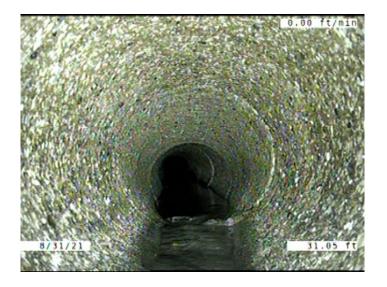
Code:	DSF
Description:	Deposits Settled Fine
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: Remarks:	.0 0 2 5 7 5.000 \$01 YES



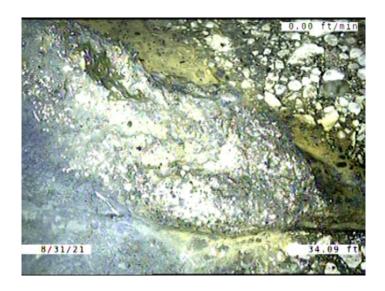
Code: Description:	MWLS Miscellaneous Water Level Sag
Distance (ft):	20.2
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	S02
Within 8" of Joint:	NO
Remarks:	



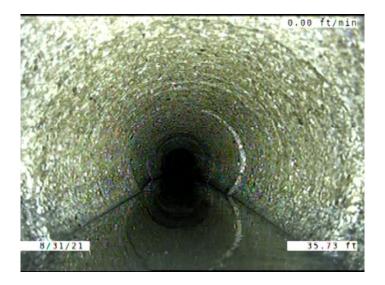
Code: Description:	TB Tap Break-in/Hammer
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: Remarks:	29.1 0 0 11 4.000 NO



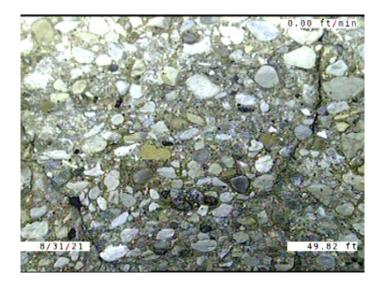
Code: Description:	MWLS Miscellaneous Water Level Sag
Distance (ft):	31.1
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	F02
Within 8" of Joint:	NO
Remarks:	



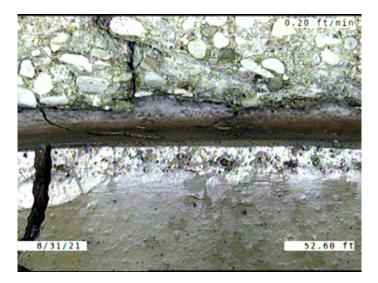
Code: Description:	DAE Deposits Attached Encrustation
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint:	34.1 0 2 4 6 5.000 YES
Remarks:	



Code: Description:	MWLS Miscellaneous Water Level Sag
Distance (ft):	35.7
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	10.000
Continuous Index:	S03
Within 8" of Joint:	NO
Remarks:	



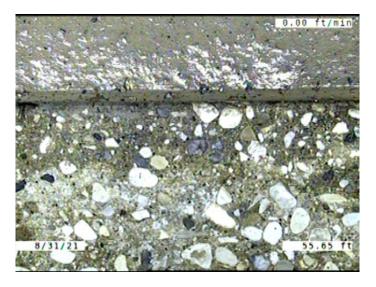
Code:	FM
Description:	Fracture Multiple
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index:	49.8 4 0 9 3 S04
Within 8" of Joint:	YES
Remarks:	Wandering



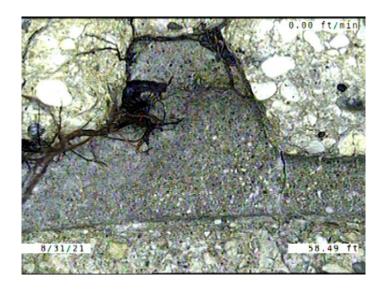
Code: Description:	MMC Miscellaneous Material Change
Distance (ft):	52.6
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	CONCRETE TO VCP



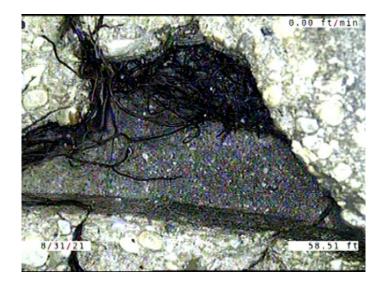
Code:	TFD
Description:	Tap Factory Defective
Distance (ft):	53.5
Structural Grade:	0
O&M Grade:	3
Clock Start/From:	12
Clock To: 1st Value: 2nd Value:	4.000
Value Percent: Continuous Index: Within 8" of Joint: Remarks:	YES Debris



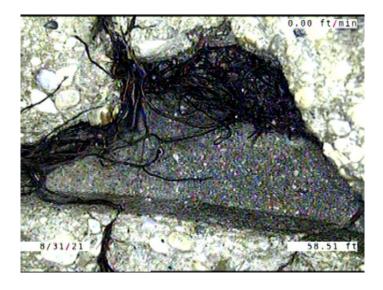
Code: Description:	MMC Miscellaneous Material Change
Distance (ft):	55.7
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	VCP TO CONCRETE



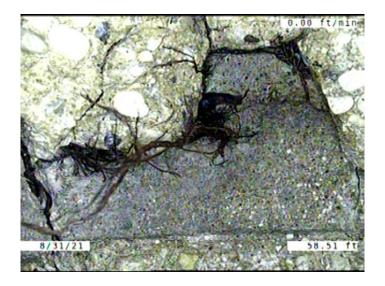
Code:	SMW
Description:	Surface Damage Missing Wall
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: Remarks:	58.5 5 0 8 10 YES



Code:	RFJ
Description:	Roots Fine Joint
Distance (ft):	58.5
	-
Structural Grade:	0
O&M Grade:	1
Clock Start/From:	1
Clock To:	3
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



Code: Description:	SMW Surface Damage Missing Wall
Distance (ft):	58.5
Structural Grade:	5
O&M Grade:	0
Clock Start/From:	12
Clock To:	4
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



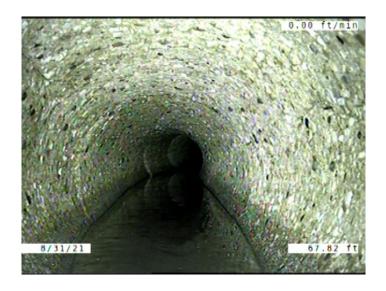
Code: Description:	RFJ Roots Fine Joint
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: Remarks:	58.5 0 1 9 10 YES
Nettial KS.	



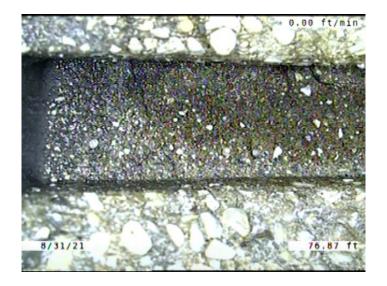
Code: Description:	MWLS Miscellaneous Water Level Sag
Distance (ft):	60.8
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	10.000
Continuous Index:	F03
Within 8" of Joint:	NO
Remarks:	



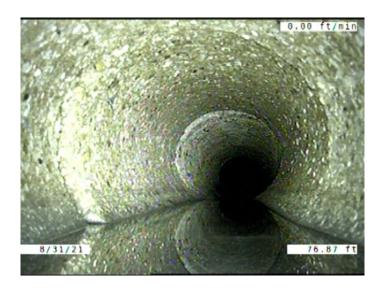
Code:	RFJ
Description:	Roots Fine Joint
Distance (ft):	61.5
Structural Grade:	0
O&M Grade:	1
Clock Start/From:	9
Clock To:	3
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



Code: Description:	MWLS Miscellaneous Water Level Sag
Distance (ft):	67.8
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	S05
Within 8" of Joint:	NO
Remarks:	



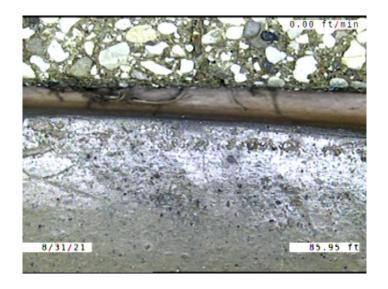
Code: Description:	JAM Joint Angular Medium
Distance (ft):	76.9
Structural Grade:	3
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



Code: Description:	LR Line Right
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index:	76.9 0 1 5.000
Within 8" of Joint: Remarks:	ΝΟ



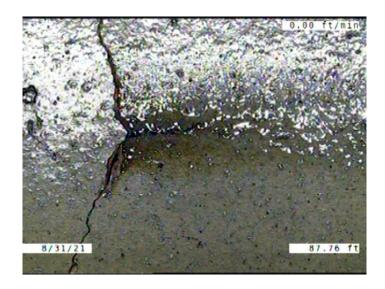
Code: Description:	MWLS Miscellaneous Water Level Sag
Distance (ft):	79.4
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	F05
Within 8" of Joint:	NO
Remarks:	



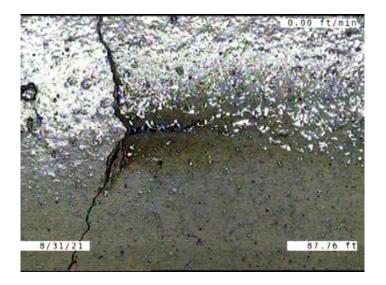
Code: Description:	MMC Miscellaneous Material Change
Distance (ft):	86.0
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	CONCRETE TO VCP



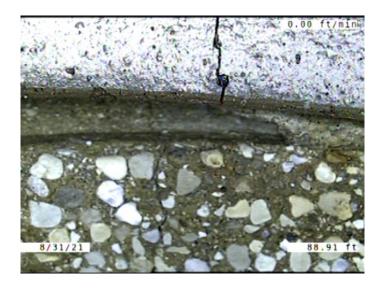
Code: Description:	TFD Tap Factory Defective
Distance (ft): Structural Grade: O&M Grade:	86.9 0 3
Clock Start/From:	11
Clock To: 1st Value: 2nd Value:	4.000
Value Percent: Continuous Index: Within 8" of Joint: Remarks:	YES Debris
Remarks:	Debris



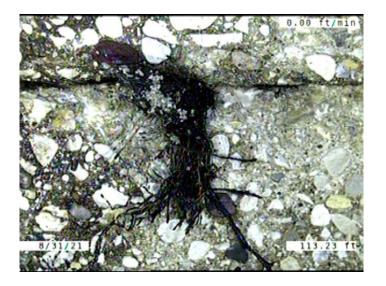
Code: Description:	IWB Infiltration Weeper Barrel
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint:	87.7 0 2 1
Remarks:	



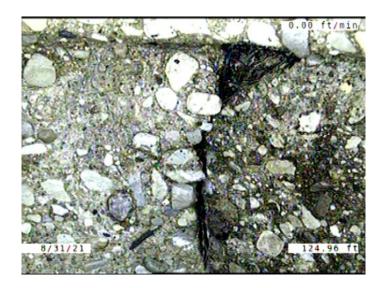
Code: Description:	ISB Infiltration Stain Barrel
Distance (ft):	87.8
Structural Grade:	0
O&M Grade:	1
Clock Start/From:	1
Clock To:	2
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



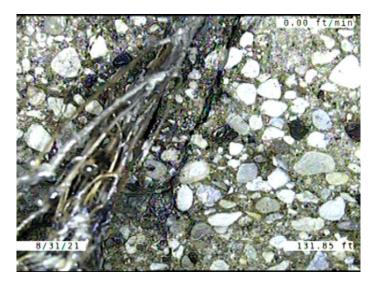
Code: Description:	MMC Miscellaneous Material Change
Distance (ft):	88.9
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	VCP TO CONCRETE



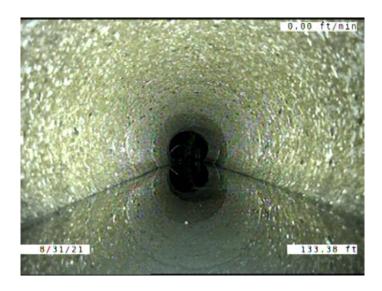
Code:	RFJ
Description:	Roots Fine Joint
Distance (ft):	113.2
Structural Grade:	0
	•
O&M Grade:	1
Clock Start/From:	9
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



Code: Description:	RFB Roots Fine Barrel
Distance (ft):	125.0
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	9
Clock To:	3
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	S06
Within 8" of Joint:	NO
Remarks:	



Code: Description:	IWB Infiltration Weeper Barrel
Distance (ft):	131.8
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	11
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



Code:	RFB
Description:	Roots Fine Barrel
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: Remarks:	133.4 0 2 9 3 F06 NO



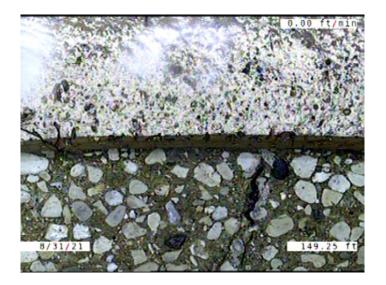
Code: MMC Description: **Miscellaneous Material Change** Distance (ft): 146.4 Structural Grade: 0 O&M Grade: 0 Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: NO Remarks: CONCRETE TO VCP



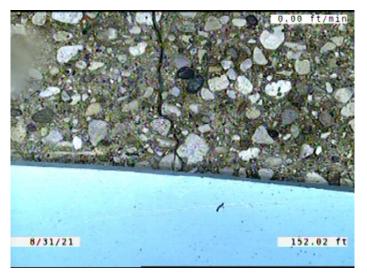
Code:	TFD
Description:	Tap Factory Defective
Distance (ft):	147.0
Structural Grade:	0
O&M Grade:	3
Clock Start/From:	12
Clock To: 1st Value: 2nd Value: Value Percent:	4.000
Continuous Index: Within 8" of Joint: Remarks:	YES Debris



RML Roots Medium Lateral
147.0
0
3
12
25.000
NO



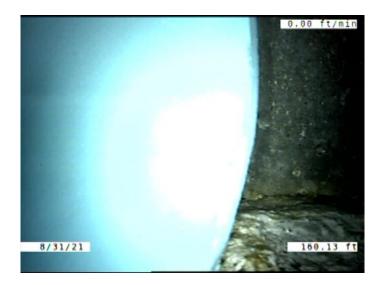
Code: Description:	MMC Miscellaneous Material Change
Distance (ft):	149.2
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	VCP TO CONCRETE



	Code:	ММС
0	Description:	Miscellaneous Material Change
0	Distance (ft):	152.0
S	Structural Grade:	0
C	D&M Grade:	0
C	Clock Start/From:	
C	Clock To:	
1	lst Value:	
2	2nd Value:	
١	/alue Percent:	
C	Continuous Index:	
١	Within 8" of Joint:	NO
F	Remarks:	CONCRETE TO PVC



Code: Description:	FM Fracture Multiple
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint:	152.2 4 0 9 3 F04 YES
Remarks:	Wandering



Code: DSF Description: **Deposits Settled Fine** Distance (ft): 160.1 Structural Grade: 0 O&M Grade: 2 Clock Start/From: 5 7 Clock To: 1st Value: 2nd Value: 5.000 Value Percent: Continuous Index: F01 Within 8" of Joint: YES

Remarks:



Code: Description:	AMH Manhole
Distance (ft):	160.3
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	M-504-106