

Profile/Photo Observation Report



Date:	03/02/2024	Weather:		Coding:	PACP 7.0
Pipe Length (ft):	192.0	Owner:	City of Hobart	Pre Clean:	Heavy Cleaning
P.O.#:		Surveyor:	S. Bucklin	PSR:	P-405-054-052
Customer:	City of Hobart	Clean Date:	09/23/2023	Shape:	C

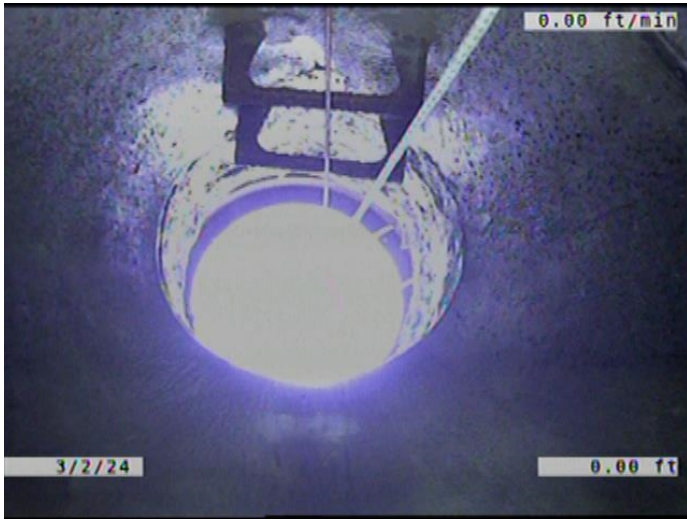
Street:	SOFTWOOD DR	Flow Control:	Not Controlled
City:	Hobart, IN	Year Renewed:	
Location:	Easement/Right of Way	Tape/Media #:	
Purpose:	Sewer System Evaluation Survey (SS)	Dia/Height:	10"
Use:	Sanitary Sewage Pipe	Material:	VCP
Drain Area:		Lining:	None
Category:	NA		
Comment:			
Location Details:		Direction of Survey:	Downstream
US MH:	M-405-052	DS MH:	M-405-054
		Total Length Surveyed (ft):	194.8

O&M Index:	1.53	O&M Quick:	352F	O&M Rating:	133.00
Structural Index:	2.48	Structural Quick:	5144	Structural Rating:	104.00
Overall Index:	1.84	Overall Quick:	5144	Overall Rating:	237.00

	Position	Code	Observation	Video (sec)	Grade
	.0	AMH	Manhole	0	NA
	.0	MWL	Miscellaneous Water Level	71	NA
	.8	BSV	Broken Soil Visible	140	S 5
	.8	LD	Line Down	178	M 2
	2.7	MWLS(S01)	Miscellaneous Water Level Sag	202	S 2
	4.5	JAM	Joint Angular Medium	256	S 3
	4.5	RFJ	Roots Fine Joint	266	M 1
	4.5	RFJ	Roots Fine Joint	291	M 1
	8.7	RFJ	Roots Fine Joint	364	M 1
	8.7	DAE	Deposits Attached Encrustation	377	M 2
	8.7	RFJ	Roots Fine Joint	387	M 1
	11.7	MWLS(F01)	Miscellaneous Water Level Sag	421	S 2
	12.7	RFJ	Roots Fine Joint	477	M 1
	16.8	DAE	Deposits Attached Encrustation	549	M 2
	16.8	RFJ	Roots Fine Joint	563	M 1
	16.8	RFJ	Roots Fine Joint	588	M 1
	21.0	RFJ(S02)	Roots Fine Joint	660	M 1
	26.4	MWLS(S03)	Miscellaneous Water Level Sag	698	S 2
	28.1	LR	Line Right	714	M 1

32.8	DR(S05)	Deformed Rigid	800	S 4
34.2	RFB	Roots Fine Barrel	827	M 2
36.8	DR(F05)	Deformed Rigid	868	S 4
37.5	DSF(S06)	Deposits Settled Fine	898	M 2
58.9	JOMD	Joint Offset Medium Defective	1080	S 3
60.9	MWLS(F03)	Miscellaneous Water Level Sag	1115	S 2
74.8	MWLS(S07)	Miscellaneous Water Level Sag	1180	S 2
78.3	JAM	Joint Angular Medium	1241	S 3
83.1	JOMD	Joint Offset Medium Defective	1336	S 3
117.0	TFD	Tap Factory Defective	1561	M 3
117.0	RFC	Roots Fine Connection	1575	M 1
120.5	MWLS(F07)	Miscellaneous Water Level Sag	1636	S 2
121.9	JAM	Joint Angular Medium	1711	S 3
124.6	MWLS(S08)	Miscellaneous Water Level Sag	1740	S 2
130.3	B	Broken	1803	S 4
131.4	TFD	Tap Factory Defective	1836	M 3
140.8	JOMD	Joint Offset Medium Defective	1952	S 3
148.0	MWLS(F08)	Miscellaneous Water Level Sag	2014	S 2
156.0	MWLS(S10)	Miscellaneous Water Level Sag	2065	S 2
156.8	RMJ	Roots Medium Joint	2119	M 3
160.4	LL	Line Left	2160	M 1
164.5	LR	Line Right	2194	M 1
169.1	LR	Line Right	2265	M 1
176.2	MWLS(F10)	Miscellaneous Water Level Sag	2312	S 2
177.4	JAM	Joint Angular Medium	2356	S 3
178.5	TF	Tap Factory	2390	NA
178.8	MWLS	Miscellaneous Water Level Sag	2406	S 2
183.5	RTJ	Roots Tap Joint	2490	M 2
183.5	DR(S12)	Deformed Rigid	2521	S 4
183.5	RTB	Roots Tap Barrel	2626	M 3
183.5	MWLS(S13)	Miscellaneous Water Level Sag	2640	S 3
184.7	TFD	Tap Factory Defective	2663	M 3
192.8	MWLS(F13)	Miscellaneous Water Level Sag	2787	S 3
192.8	DR(F12)	Deformed Rigid	2794	S 4
192.8	DSF(F06)	Deposits Settled Fine	2802	M 2
192.8	RFJ(F02)	Roots Fine Joint	2812	M 1
194.8	AMH	Manhole	3009	NA

M-405-054



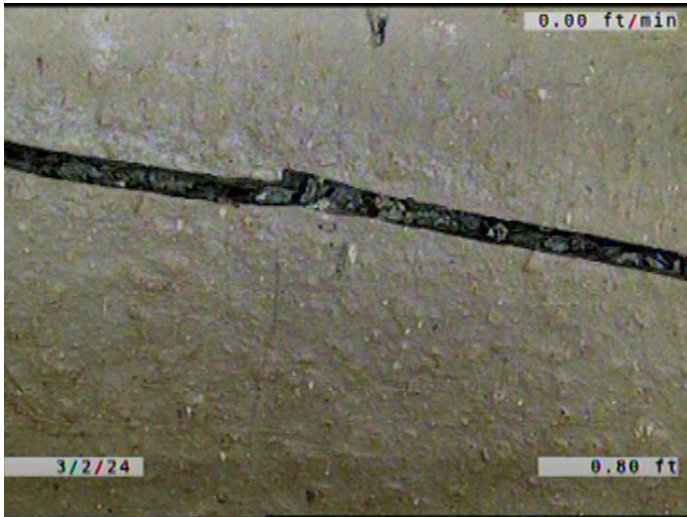
Code: **AMH**
Description: **Manhole**

Distance (ft): **.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: **M-405-052**



Code: **MWL**
Description: **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: **BSV**
Description: **Broken Soil Visible**

Distance (ft): **.8**
Structural Grade: **5**
O&M Grade: **0**
Clock Start/From: **12**
Clock To: **12**
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



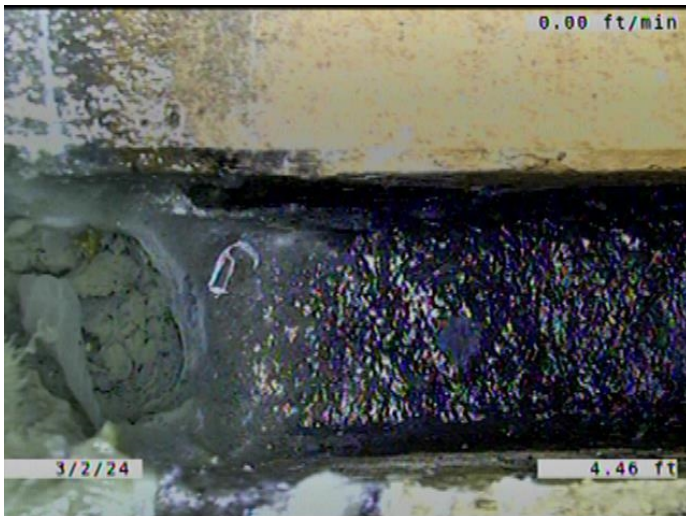
Code: **LD**
Description: **Line Down**

Distance (ft): **.8**
Structural Grade: **0**
O&M Grade: **2**
Clock Start/From:
Clock To:
1st Value:
2nd Value:
Value Percent: **15.000**
Continuous Index:
Within 8" of Joint: **NO**
Remarks:



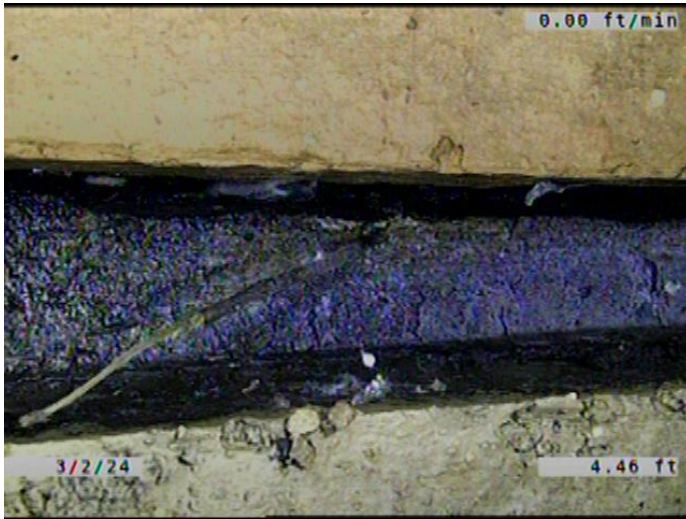
Code: **MWLS**
Description: **Miscellaneous Water Level Sag**

Distance (ft): **2.7**
Structural Grade: **2**
O&M Grade: **0**
Clock Start/From:
Clock To:
1st Value:
2nd Value:
Value Percent: **10.000**
Continuous Index: **S01**
Within 8" of Joint: **NO**
Remarks:



Code: **JAM**
Description: **Joint Angular Medium**

Distance (ft): **4.5**
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: **RFJ**
 Description: **Roots Fine Joint**

Distance (ft): **4.5**
 Structural Grade: **0**
 O&M Grade: **1**
 Clock Start/From: **9**
 Clock To: **10**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



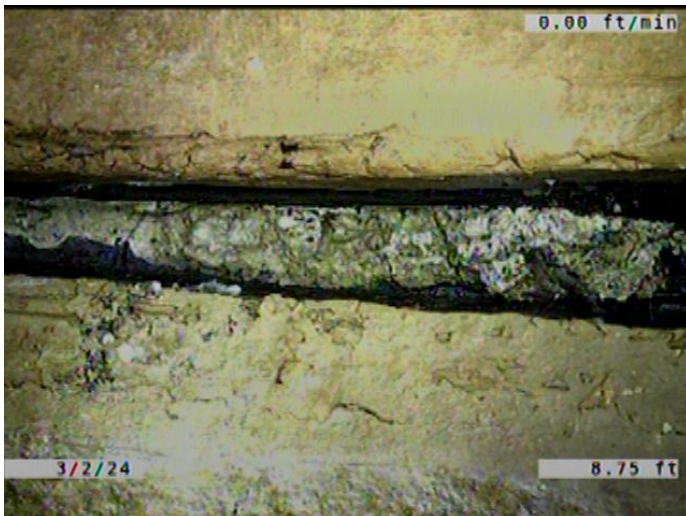
Code: **RFJ**
 Description: **Roots Fine Joint**

Distance (ft): **4.5**
 Structural Grade: **0**
 O&M Grade: **1**
 Clock Start/From: **2**
 Clock To: **5**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



Code: **RFJ**
Description: **Roots Fine Joint**

Distance (ft): **8.7**
Structural Grade: **0**
O&M Grade: **1**
Clock Start/From: **11**
Clock To:
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



Code: **DAE**
Description: **Deposits Attached Encrustation**

Distance (ft): **8.7**
Structural Grade: **0**
O&M Grade: **2**
Clock Start/From: **10**
Clock To: **2**
1st Value:
2nd Value:
Value Percent: **5.000**
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



Code: **RFJ**
Description: **Roots Fine Joint**

Distance (ft): **8.7**
Structural Grade: **0**
O&M Grade: **1**
Clock Start/From: **2**
Clock To: **5**
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



Code: **MWLS**
Description: **Miscellaneous Water Level Sag**

Distance (ft): **11.7**
Structural Grade: **2**
O&M Grade: **0**
Clock Start/From:
Clock To:
1st Value:
2nd Value:
Value Percent: **10.000**
Continuous Index: **F01**
Within 8" of Joint: **NO**
Remarks:



Code: **RFJ**
 Description: **Roots Fine Joint**

Distance (ft): **12.7**
 Structural Grade: **0**
 O&M Grade: **1**
 Clock Start/From: **3**
 Clock To: **5**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



Code: **DAE**
 Description: **Deposits Attached Encrustation**

Distance (ft): **16.8**
 Structural Grade: **0**
 O&M Grade: **2**
 Clock Start/From: **2**
 Clock To: **3**
 1st Value:
 2nd Value:
 Value Percent: **5.000**
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



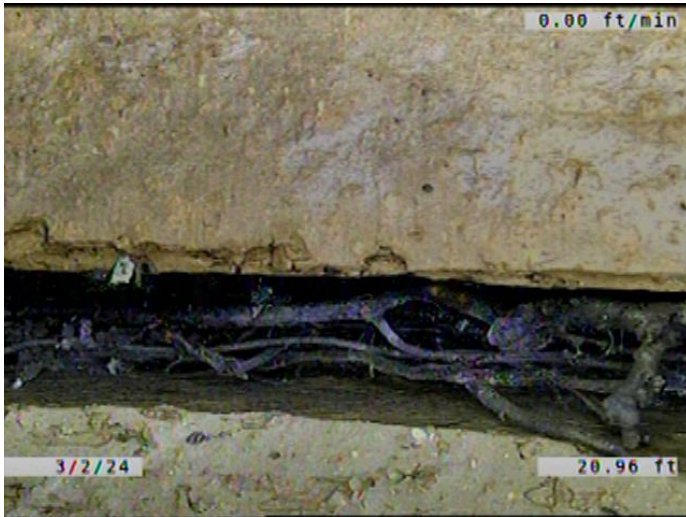
Code: **RFJ**
Description: **Roots Fine Joint**

Distance (ft): **16.8**
Structural Grade: **0**
O&M Grade: **1**
Clock Start/From: **2**
Clock To: **4**
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



Code: **RFJ**
Description: **Roots Fine Joint**

Distance (ft): **16.8**
Structural Grade: **0**
O&M Grade: **1**
Clock Start/From: **8**
Clock To: **10**
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



Code: **RFJ**
Description: **Roots Fine Joint**

Distance (ft): **21.0**
Structural Grade: **0**
O&M Grade: **1**
Clock Start/From: **7**
Clock To: **5**
1st Value:
2nd Value:
Value Percent:
Continuous Index: **S02**
Within 8" of Joint: **YES**
Remarks:



Code: **MWLS**
Description: **Miscellaneous Water Level Sag**

Distance (ft): **26.4**
Structural Grade: **2**
O&M Grade: **0**
Clock Start/From:
Clock To:
1st Value:
2nd Value:
Value Percent: **25.000**
Continuous Index: **S03**
Within 8" of Joint: **NO**
Remarks:



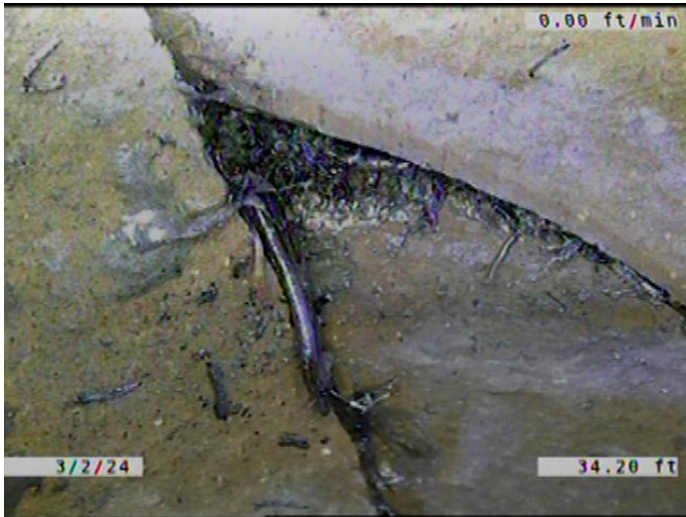
Code: **LR**
Description: **Line Right**

Distance (ft): **28.1**
Structural Grade: **0**
O&M Grade: **1**
Clock Start/From:
Clock To:
1st Value:
2nd Value:
Value Percent: **5.000**
Continuous Index:
Within 8" of Joint: **NO**
Remarks:



Code: **DR**
Description: **Deformed Rigid**

Distance (ft): **32.8**
Structural Grade: **4**
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:



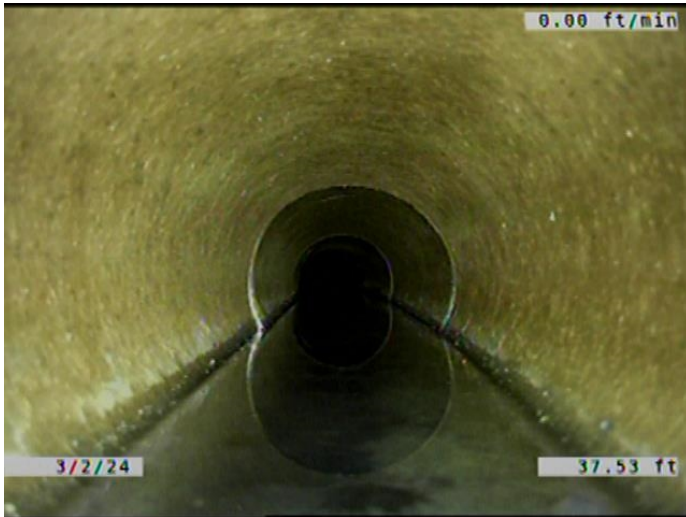
Code: **RFB**
 Description: **Roots Fine Barrel**

Distance (ft): **34.2**
 Structural Grade: **0**
 O&M Grade: **2**
 Clock Start/From: **8**
 Clock To: **10**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **NO**
 Remarks:



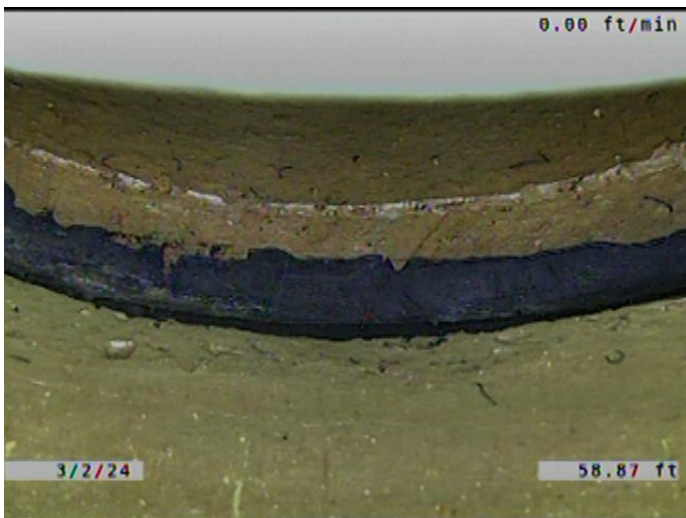
Code: **DR**
 Description: **Deformed Rigid**

Distance (ft): **36.8**
 Structural Grade: **4**
 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:



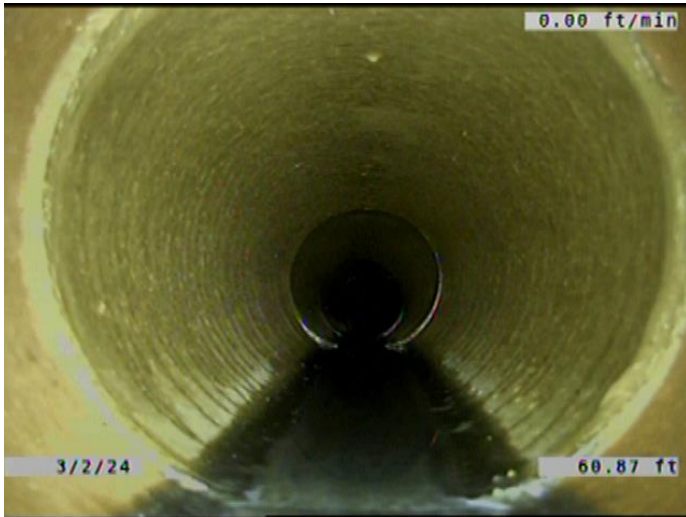
Code: **DSF**
Description: **Deposits Settled Fine**

Distance (ft): **37.5**
Structural Grade: **0**
O&M Grade: **2**
Clock Start/From: **5**
Clock To: **7**
1st Value:
2nd Value:
Value Percent: **5.000**
Continuous Index: **S06**
Within 8" of Joint: **YES**
Remarks:



Code: **JOMD**
Description: **Joint Offset Medium Defective**

Distance (ft): **58.9**
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: **MWLS**
Description: **Miscellaneous Water Level Sag**

Distance (ft): **60.9**
Structural Grade: **2**
O&M Grade: **0**
Clock Start/From:
Clock To:
1st Value:
2nd Value:
Value Percent: **25.000**
Continuous Index: **F03**
Within 8" of Joint: **NO**
Remarks:



Code: **MWLS**
Description: **Miscellaneous Water Level Sag**

Distance (ft): **74.8**
Structural Grade: **2**
O&M Grade: **0**
Clock Start/From:
Clock To:
1st Value:
2nd Value:
Value Percent: **15.000**
Continuous Index: **S07**
Within 8" of Joint: **NO**
Remarks:



Code: **JAM**
Description: **Joint Angular Medium**

Distance (ft): **78.3**
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:

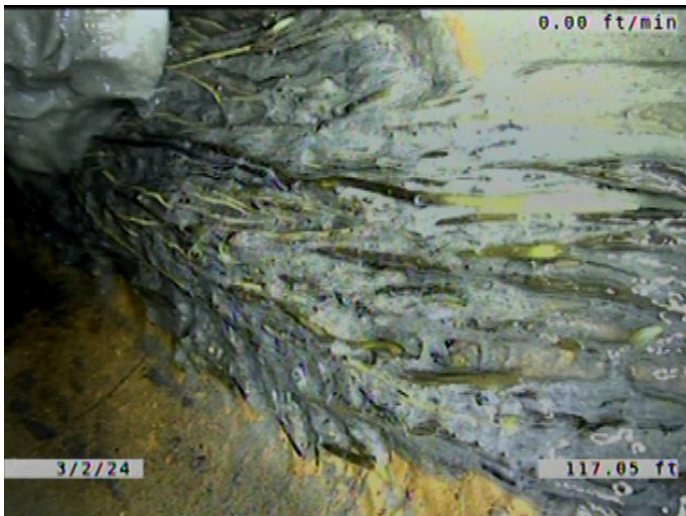


Code: **JOMD**
Description: **Joint Offset Medium Defective**

Distance (ft): **83.1**
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:	TFD
Description:	Tap Factory Defective
Distance (ft):	117.0
Structural Grade:	0
O&M Grade:	3
Clock Start/From:	2
Clock To:	
1st Value:	6.000
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	ROOTS GROWING FROM THE SERVICE TO MAIN CONNECTION INT

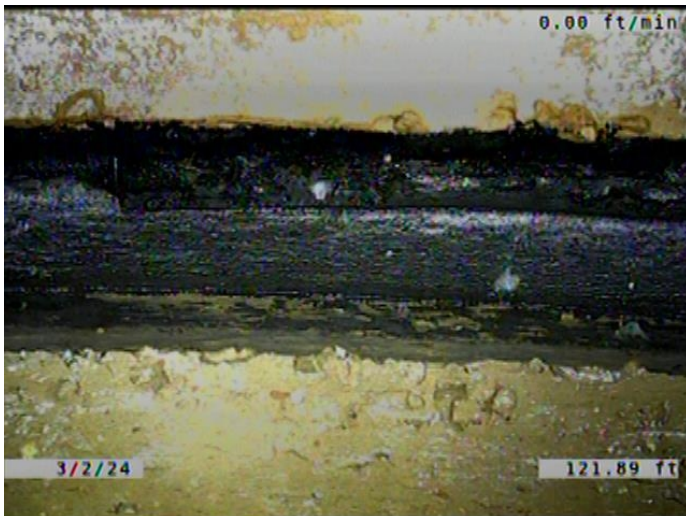


Code:	RFC
Description:	Roots Fine Connection
Distance (ft):	117.0
Structural Grade:	0
O&M Grade:	1
Clock Start/From:	2
Clock To:	3
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



Code: **MWLS**
Description: **Miscellaneous Water Level Sag**

Distance (ft): **120.5**
Structural Grade: **2**
O&M Grade: **0**
Clock Start/From:
Clock To:
1st Value:
2nd Value:
Value Percent: **15.000**
Continuous Index: **F07**
Within 8" of Joint: **NO**
Remarks:



Code: **JAM**
Description: **Joint Angular Medium**

Distance (ft): **121.9**
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:



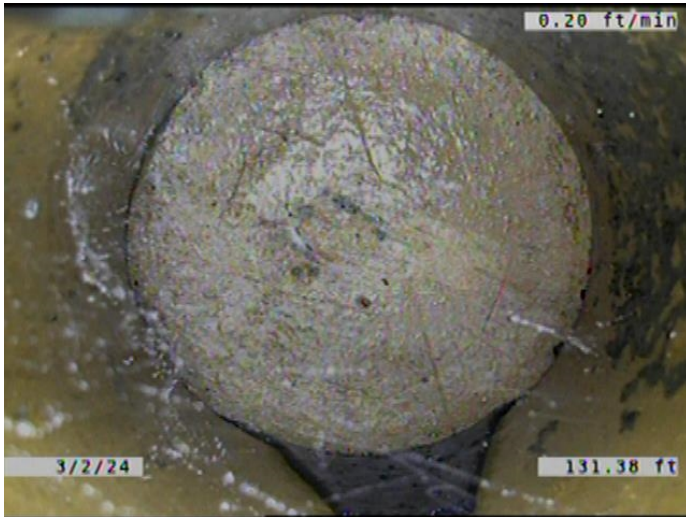
Code: **MWLS**
Description: **Miscellaneous Water Level Sag**

Distance (ft): **124.6**
Structural Grade: **2**
O&M Grade: **0**
Clock Start/From:
Clock To:
1st Value:
2nd Value:
Value Percent: **10.000**
Continuous Index: **S08**
Within 8" of Joint: **NO**
Remarks:



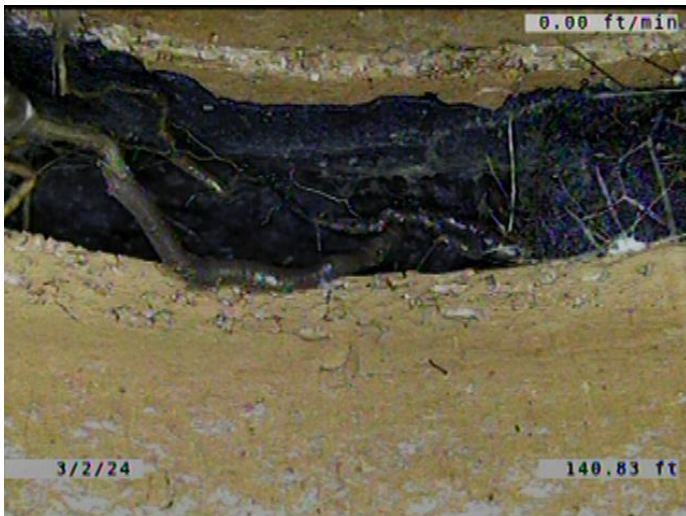
Code: **B**
Description: **Broken**

Distance (ft): **130.3**
Structural Grade: **4**
O&M Grade: **0**
Clock Start/From: **12**
Clock To: **12**
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



Code: **TFD**
 Description: **Tap Factory Defective**

Distance (ft): **131.4**
 Structural Grade: **0**
 O&M Grade: **3**
 Clock Start/From: **10**
 Clock To:
 1st Value: **6.000**
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks: **CAPPED. TAP BROKEN.**



Code: **JOMD**
 Description: **Joint Offset Medium Defective**

Distance (ft): **140.8**
 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:



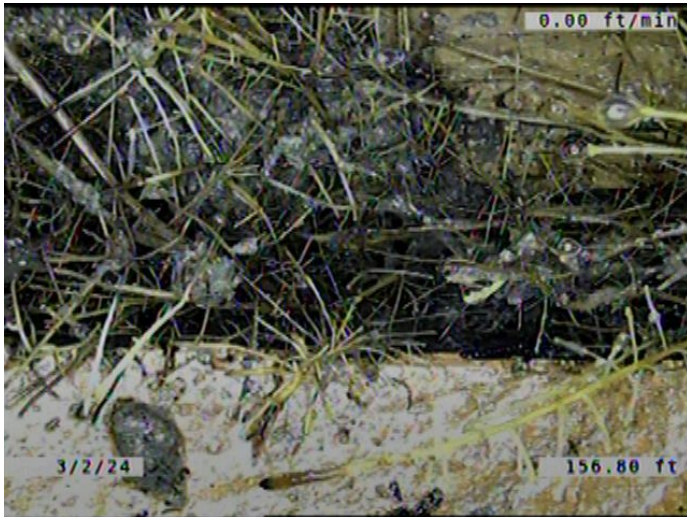
Code: **MWLS**
Description: **Miscellaneous Water Level Sag**

Distance (ft): **148.0**
Structural Grade: **2**
O&M Grade: **0**
Clock Start/From:
Clock To:
1st Value:
2nd Value:
Value Percent: **10.000**
Continuous Index: **F08**
Within 8" of Joint: **NO**
Remarks:



Code: **MWLS**
Description: **Miscellaneous Water Level Sag**

Distance (ft): **156.0**
Structural Grade: **2**
O&M Grade: **0**
Clock Start/From:
Clock To:
1st Value:
2nd Value:
Value Percent: **15.000**
Continuous Index: **S10**
Within 8" of Joint: **NO**
Remarks:



Code: **RMJ**
Description: **Roots Medium Joint**

Distance (ft): **156.8**
Structural Grade: **0**
O&M Grade: **3**
Clock Start/From: **7**
Clock To: **5**
1st Value:
2nd Value:
Value Percent: **5.000**
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



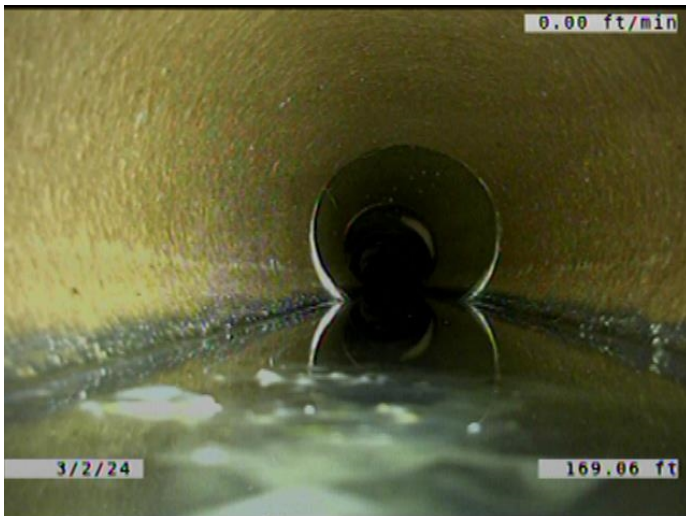
Code: **LL**
Description: **Line Left**

Distance (ft): **160.4**
Structural Grade: **0**
O&M Grade: **1**
Clock Start/From:
Clock To:
1st Value:
2nd Value:
Value Percent: **5.000**
Continuous Index:
Within 8" of Joint: **NO**
Remarks:



Code: **LR**
Description: **Line Right**

Distance (ft): **164.5**
Structural Grade: **0**
O&M Grade: **1**
Clock Start/From:
Clock To:
1st Value:
2nd Value:
Value Percent: **5.000**
Continuous Index:
Within 8" of Joint: **NO**
Remarks:



Code: **LR**
Description: **Line Right**

Distance (ft): **169.1**
Structural Grade: **0**
O&M Grade: **1**
Clock Start/From:
Clock To:
1st Value:
2nd Value:
Value Percent: **5.000**
Continuous Index:
Within 8" of Joint: **NO**
Remarks:



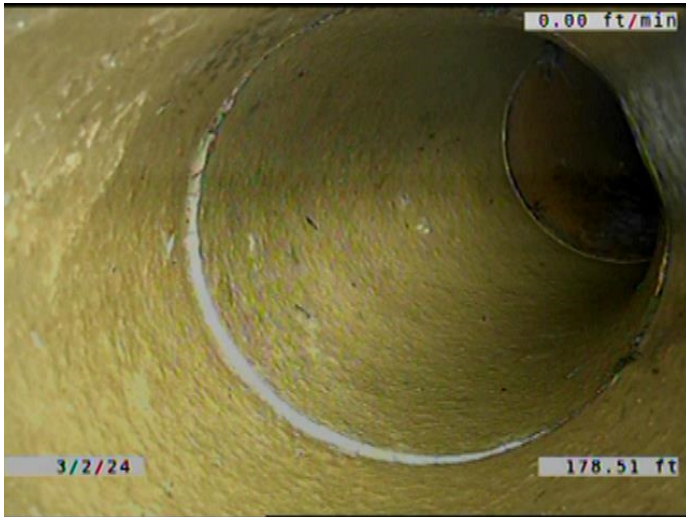
Code: **MWLS**
Description: **Miscellaneous Water Level Sag**

Distance (ft): **176.2**
Structural Grade: **2**
O&M Grade: **0**
Clock Start/From:
Clock To:
1st Value:
2nd Value:
Value Percent: **15.000**
Continuous Index: **F10**
Within 8" of Joint: **NO**
Remarks:



Code: **JAM**
Description: **Joint Angular Medium**

Distance (ft): **177.4**
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:	TF
Description:	Tap Factory
Distance (ft):	178.5
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	2
Clock To:	
1st Value:	6.000
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	ROOTS GROWING IN THE JOINTS.



Code:	MWLS
Description:	Miscellaneous Water Level Sag
Distance (ft):	178.8
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	10.000
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



Code: **RTJ**
Description: **Roots Tap Joint**

Distance (ft): **183.5**
Structural Grade: **0**
O&M Grade: **2**
Clock Start/From: **7**
Clock To: **5**
1st Value:
2nd Value:
Value Percent: **5.000**
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



Code: **DR**
Description: **Deformed Rigid**

Distance (ft): **183.5**
Structural Grade: **4**
O&M Grade: **0**
Clock Start/From:
Clock To:
1st Value:
2nd Value:
Value Percent: **5.000**
Continuous Index: **S12**
Within 8" of Joint: **NO**
Remarks:



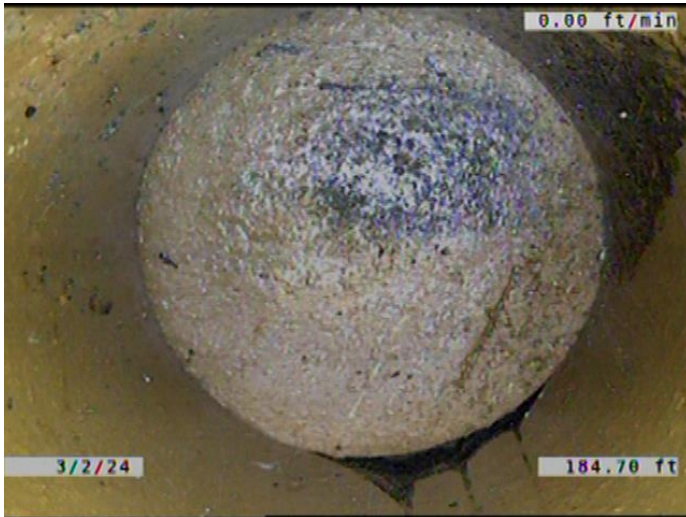
Code: **RTB**
Description: **Roots Tap Barrel**

Distance (ft): **183.5**
Structural Grade: **0**
O&M Grade: **3**
Clock Start/From: **7**
Clock To: **12**
1st Value:
2nd Value:
Value Percent: **5.000**
Continuous Index:
Within 8" of Joint: **NO**
Remarks:



Code: **MWLS**
Description: **Miscellaneous Water Level Sag**

Distance (ft): **183.5**
Structural Grade: **3**
O&M Grade: **0**
Clock Start/From:
Clock To:
1st Value:
2nd Value:
Value Percent: **35.000**
Continuous Index: **S13**
Within 8" of Joint: **NO**
Remarks:



Code: **TFD**
Description: **Tap Factory Defective**

Distance (ft): **184.7**
Structural Grade: **0**
O&M Grade: **3**
Clock Start/From: **10**
Clock To:
1st Value: **6.000**
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks: **CAPPED. TAP BROKEN.**



Code: **MWLS**
Description: **Miscellaneous Water Level Sag**

Distance (ft): **192.8**
Structural Grade: **3**
O&M Grade: **0**
Clock Start/From:
Clock To:
1st Value:
2nd Value:
Value Percent: **35.000**
Continuous Index: **F13**
Within 8" of Joint: **NO**
Remarks:



Code: **DR**
Description: **Deformed Rigid**

Distance (ft): **192.8**
Structural Grade: **4**
O&M Grade: **0**
Clock Start/From:
Clock To:
1st Value:
2nd Value:
Value Percent: **5.000**
Continuous Index: **F12**
Within 8" of Joint: **NO**
Remarks:



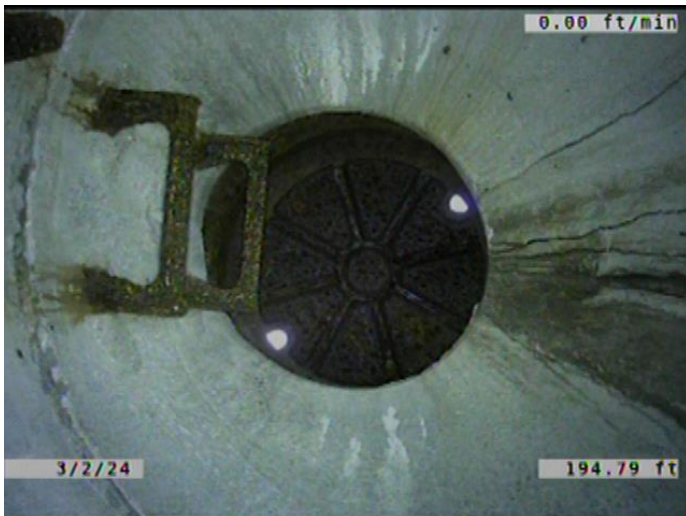
Code: **DSF**
Description: **Deposits Settled Fine**

Distance (ft): **192.8**
Structural Grade: **0**
O&M Grade: **2**
Clock Start/From: **5**
Clock To: **7**
1st Value:
2nd Value:
Value Percent: **5.000**
Continuous Index: **F06**
Within 8" of Joint: **YES**
Remarks:



Code: **RFJ**
 Description: **Roots Fine Joint**

Distance (ft): **192.8**
 Structural Grade: **0**
 O&M Grade: **1**
 Clock Start/From: **7**
 Clock To: **5**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index: **F02**
 Within 8" of Joint: **YES**
 Remarks:



Code: **AMH**
 Description: **Manhole**

Distance (ft): **194.8**
 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-405-054**