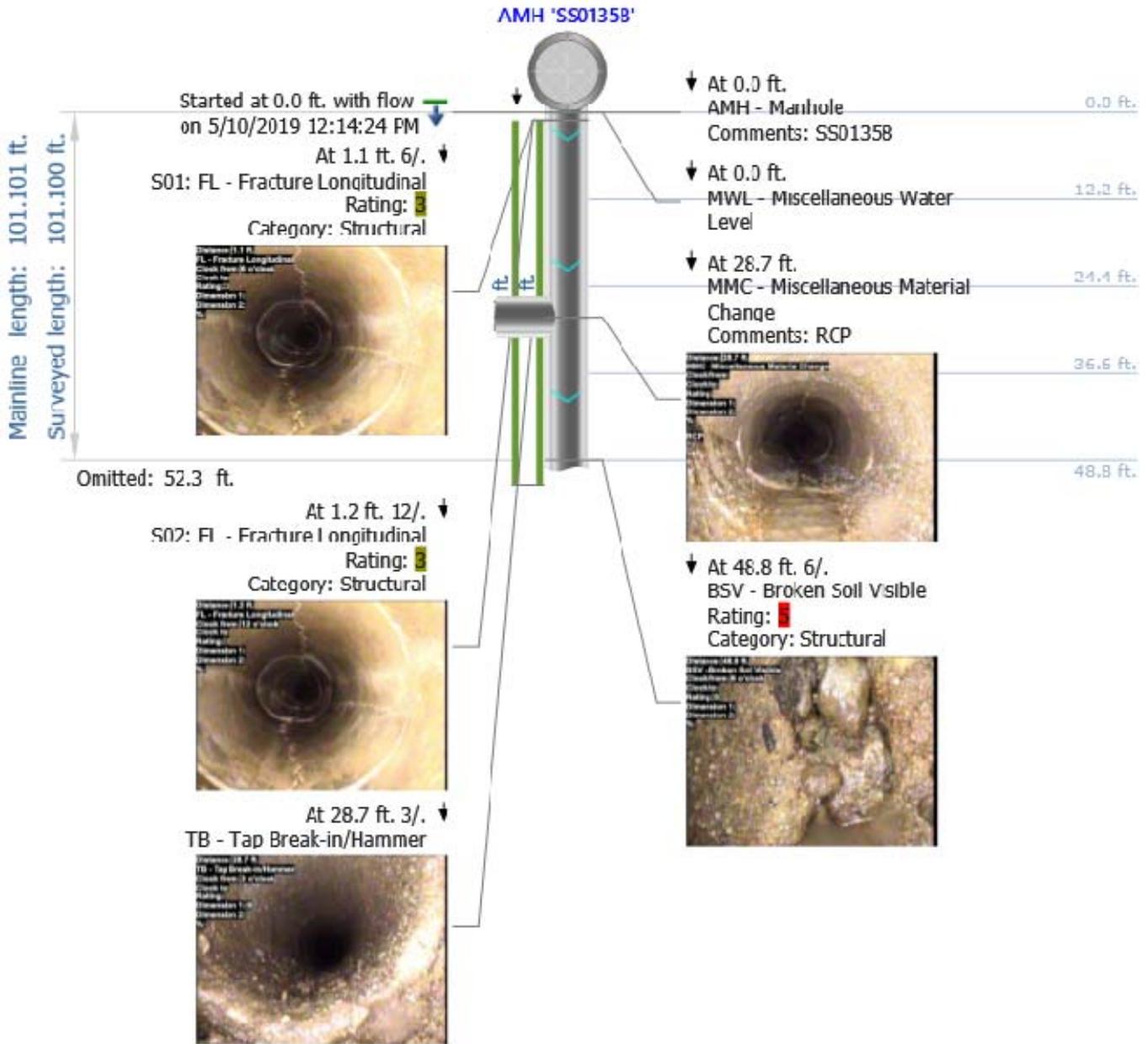
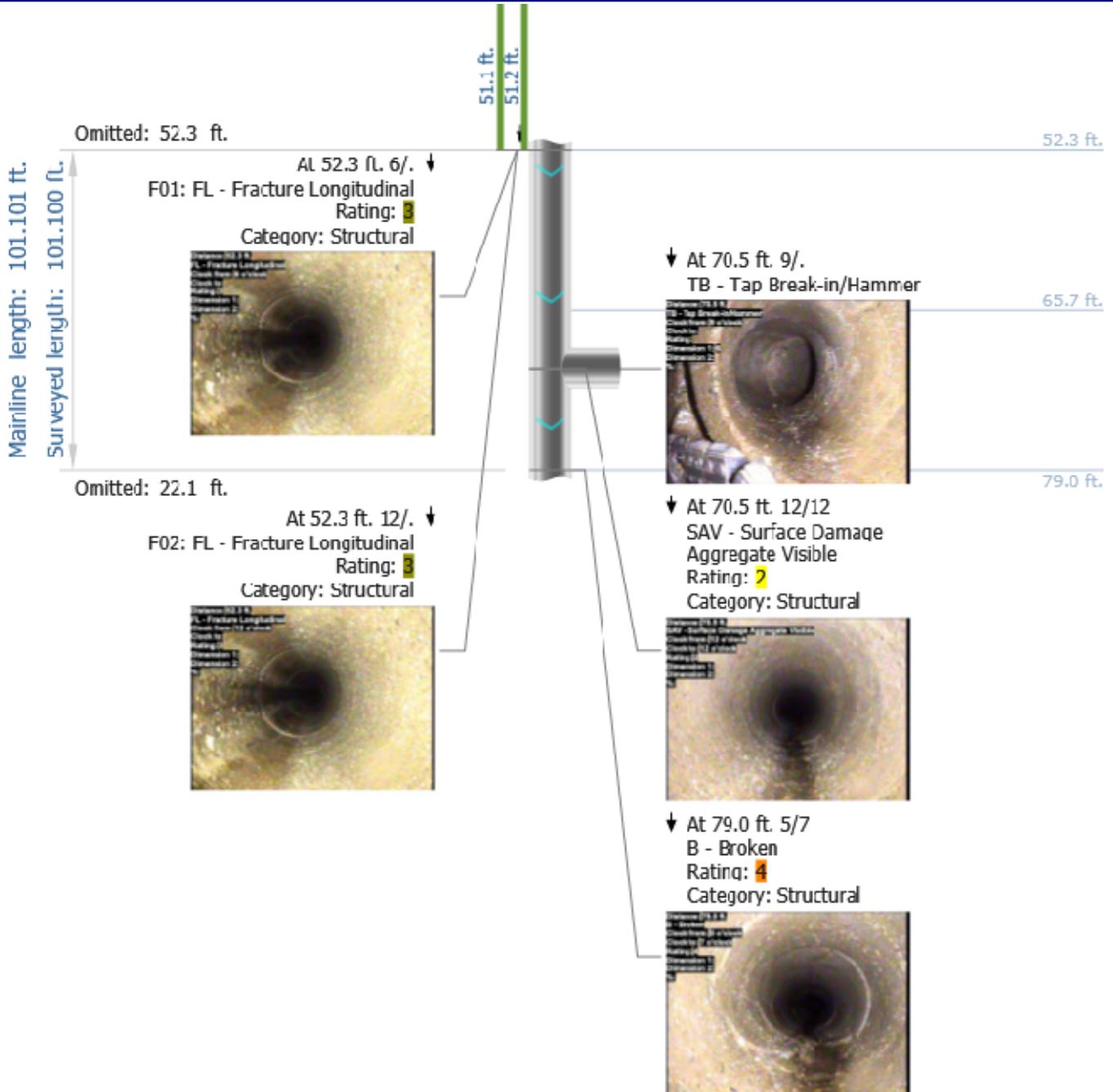


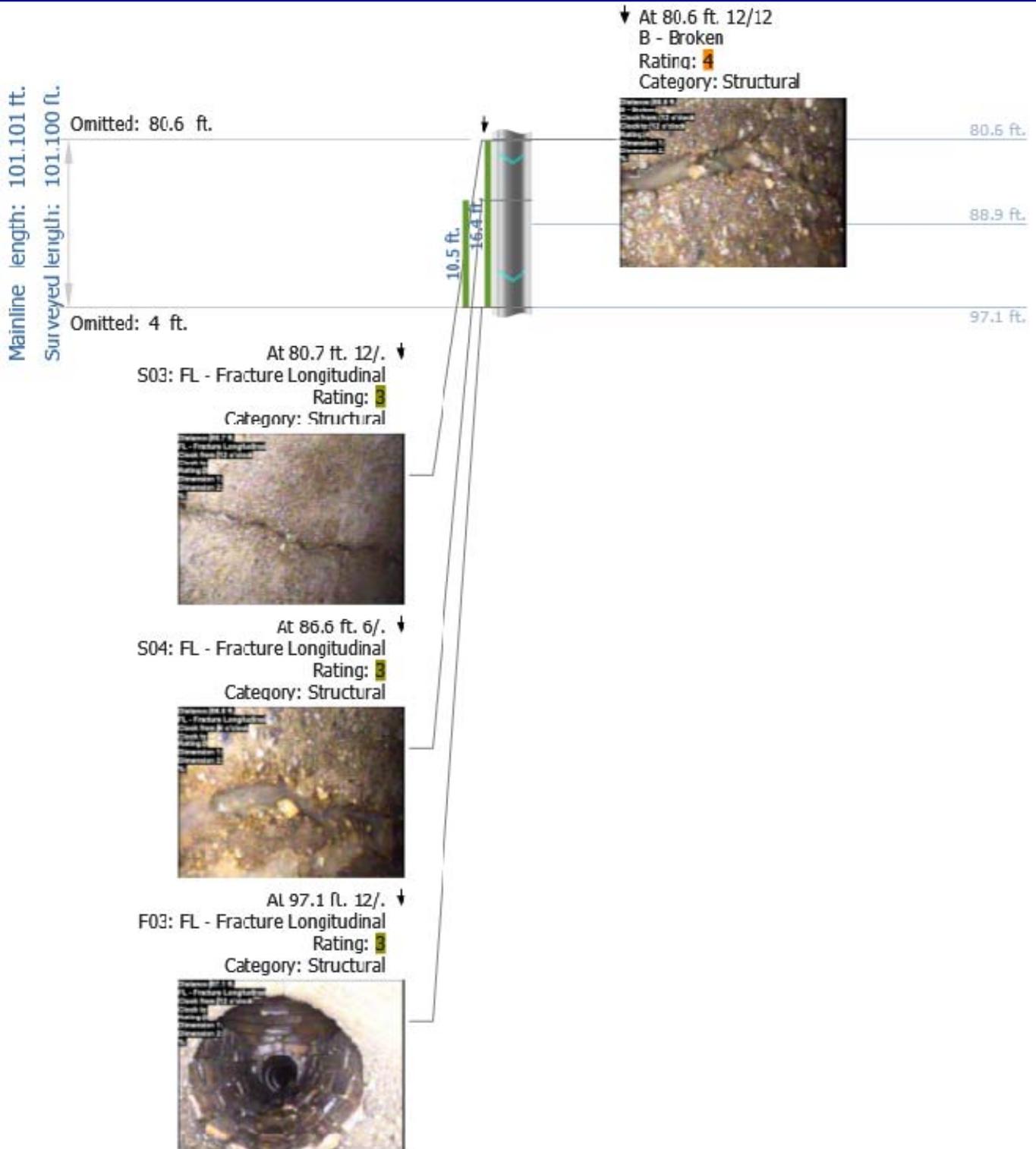
APPENDIX A
TELEVISION INSPECTION LOGS

Main Inspections Pipe Run with Images

Project name: WEST05-65	Mainline ID: SM00768	City: WORCESTER MA	Street: ASH ST
Start date/time: 20190510-121424	Direction: D	Weather: 1	Location code:
Shape: C	Material: VCP	Height: 12 in.	Width:







Project name:

Mainline ID:

Start date/time:

Direction:

WEST05-65

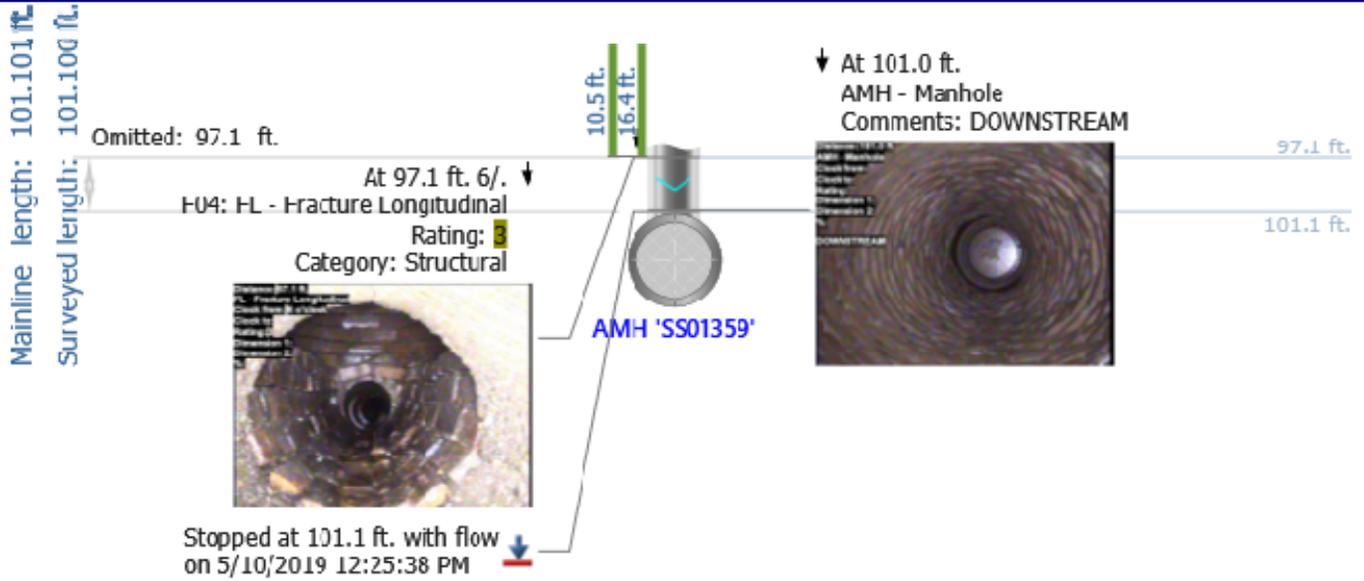
SM00768

20190510-121424

D

Weather:

1



Main Inspections Pipe Run with Images

Project name: WEST05-65	Mainline ID: SM06840	City: WORCESTER MA	Street: ASH ST
Start date/time: 20190510-122830	Direction: D	Weather: 1	Location code:
Shape: C	Material: VCP	Height: 12 in.	Width:



Project name:

WEST05-65

Mainline ID:

SM06840

Start date/time:

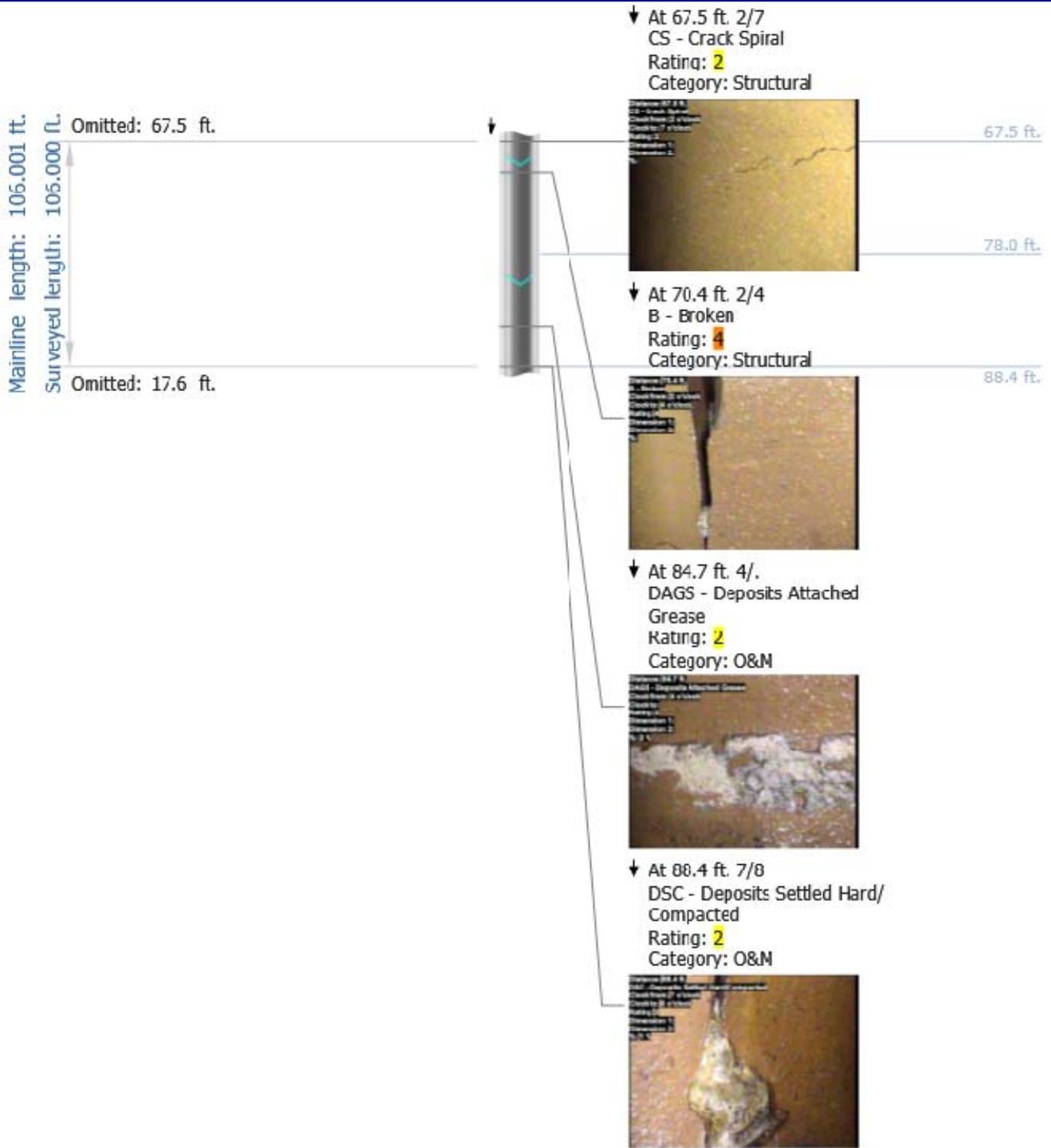
20190510-122830

Direction:

D

Weather:

1



Project name:

WEST05-65

Mainline ID:

SM06840

Start date/time:

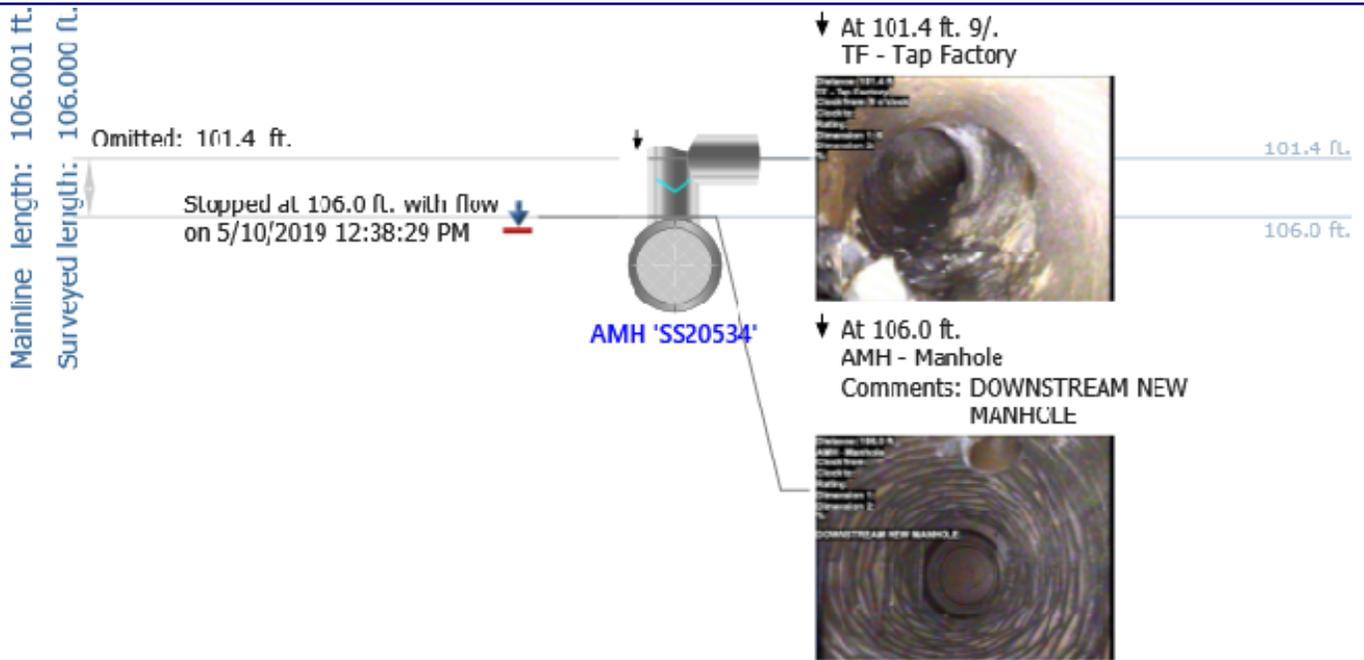
20190510-122830

Direction:

D

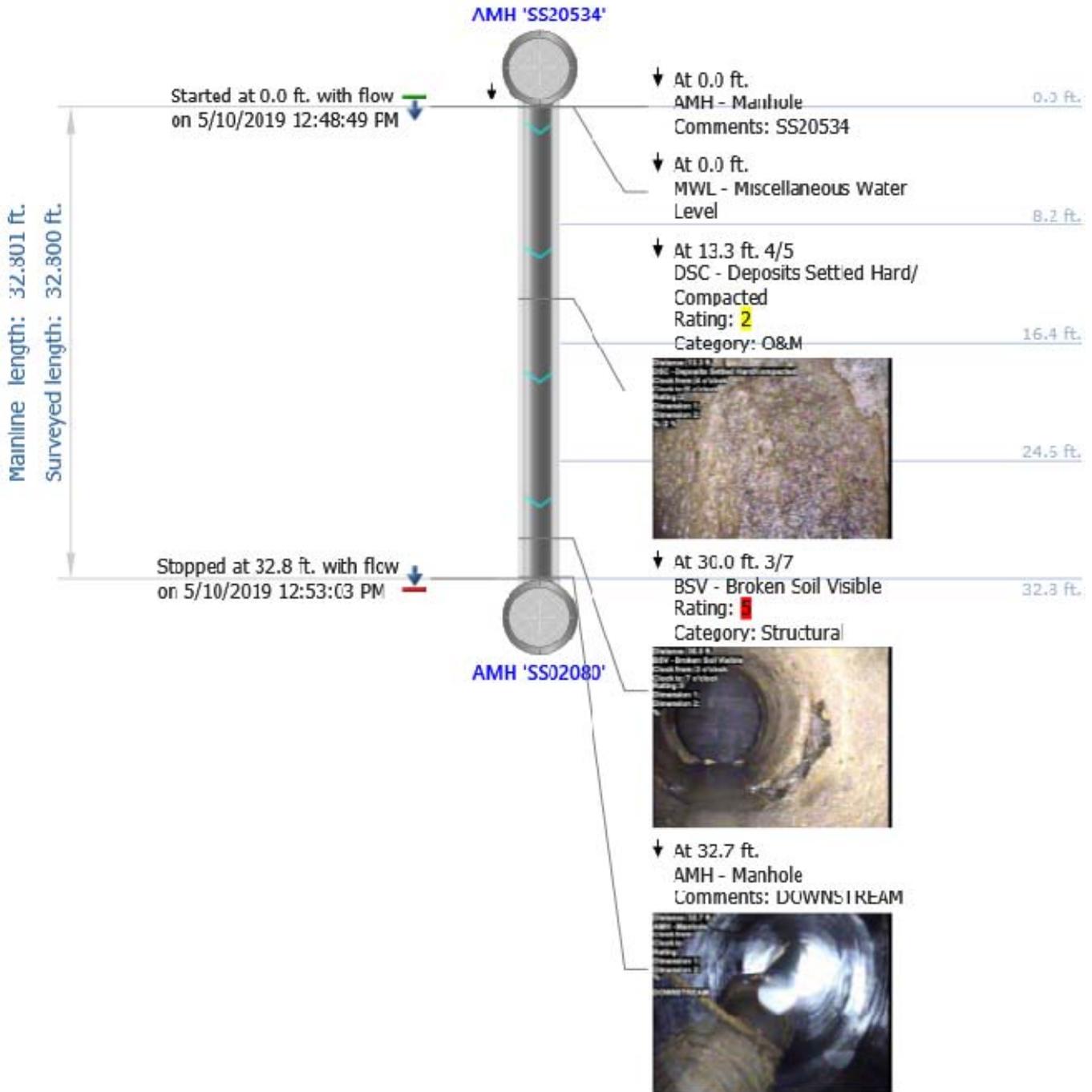
Weather:

1



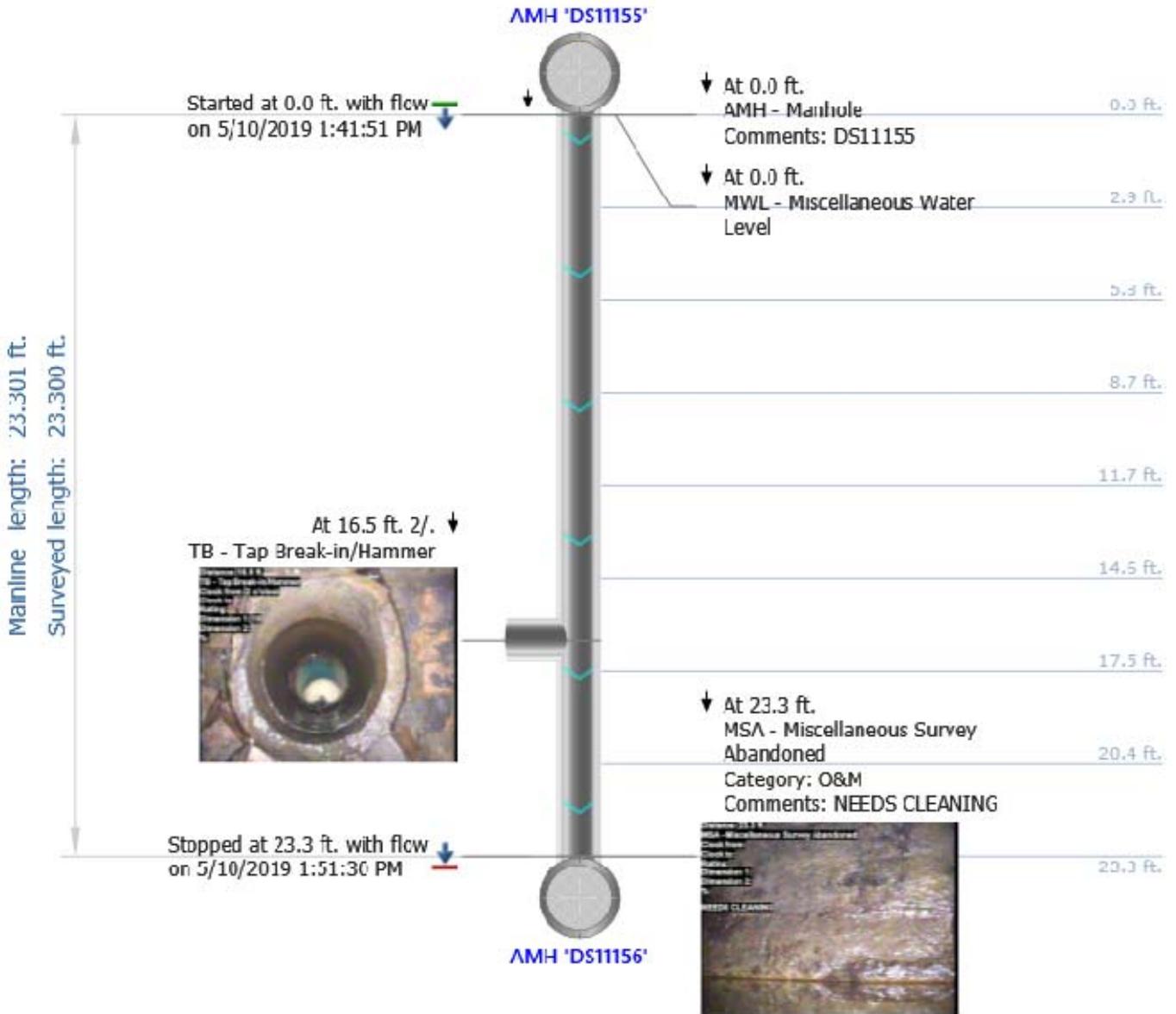
Main Inspections Pipe Run with Images

Project name: WEST05-65	Mainline ID: SM20534	City: WORCESTER MA	Street: ASH ST
Start date/time: 20190510-124849	Direction: D	Weather: 1	Location code:
Shape: C	Material: VCP	Height: 12 in.	Width:



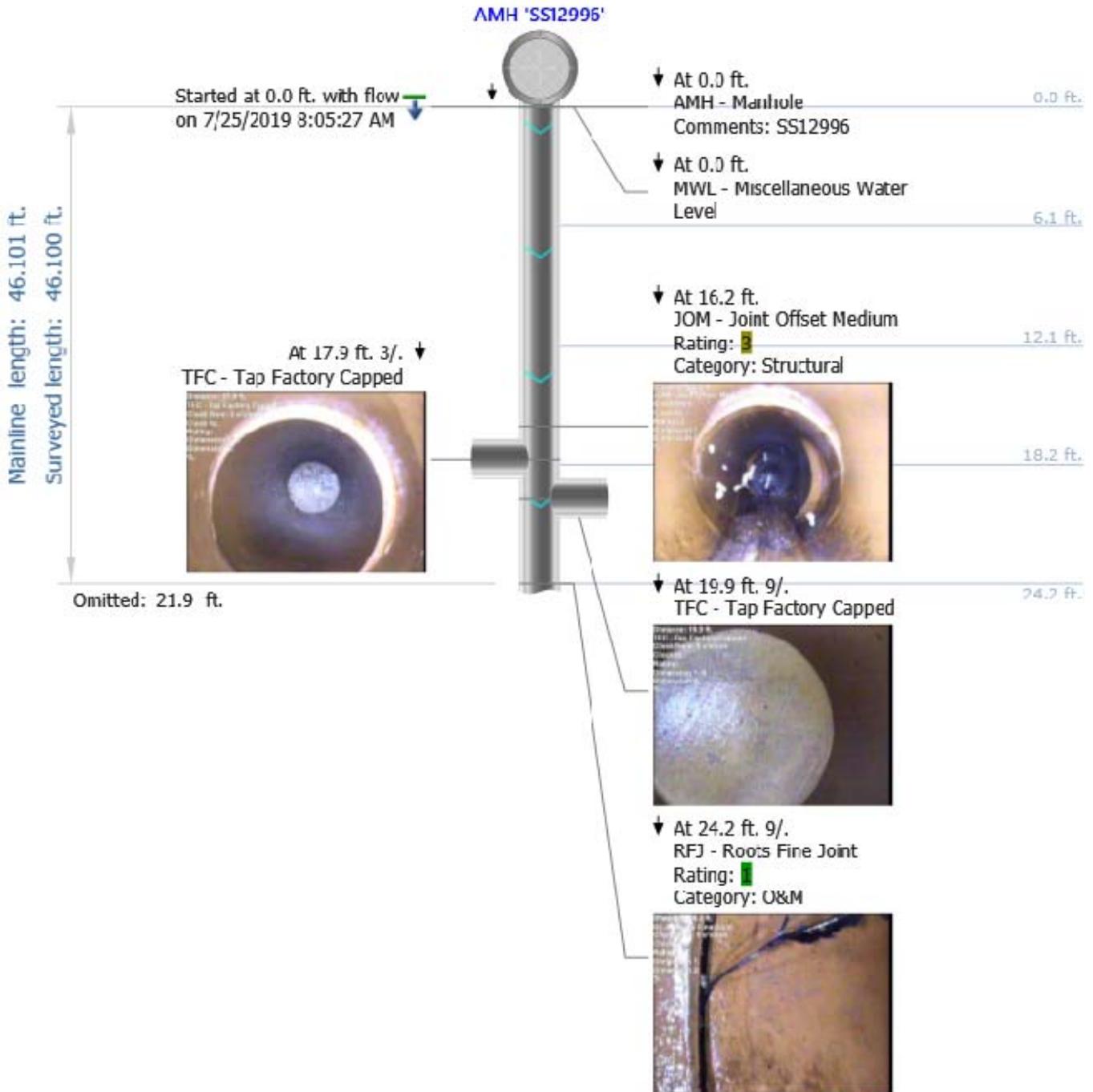
Main Inspections Pipe Run with Images

Project name: WEST05-65	Mainline ID: DL05839	City: WORCESTER MA	Street: LAMARTINE
Start date/time: 20190510-134151	Direction: D	Weather: 1	Location code:
Shape: O	Material: BR	Height: 24 in.	Width: 36 in.



Main Inspections Pipe Run with Images

Project name: WEST05-65	Mainline ID: SM12769	City: WOCESTER	Street: WESTVIEW EASEMENT
Start date/time: 20190725-080527	Direction: D	Weather: 1	Location code:
Shape: C	Material: VCP	Height: 8 in.	Width:



Project name:
WEST05-65

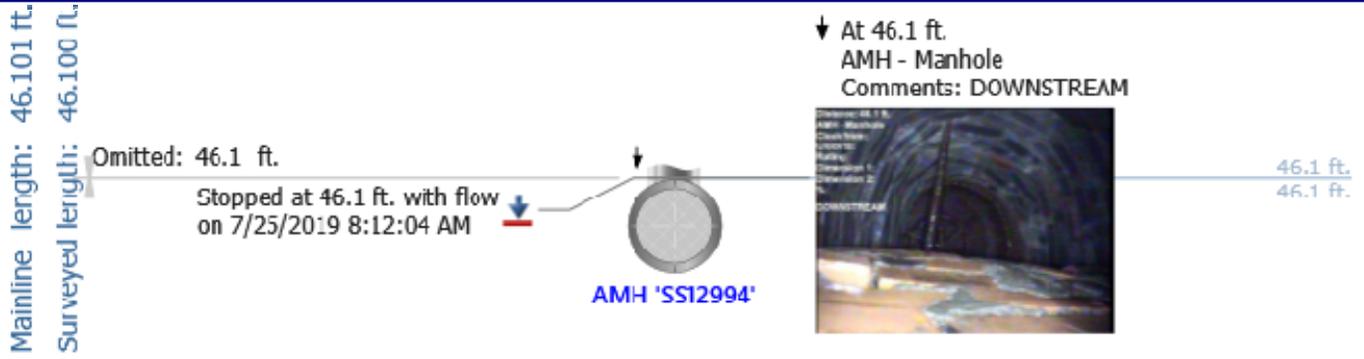
Mainline ID:
SM12769

Start date/time:
20190725-080527

Direction:
D

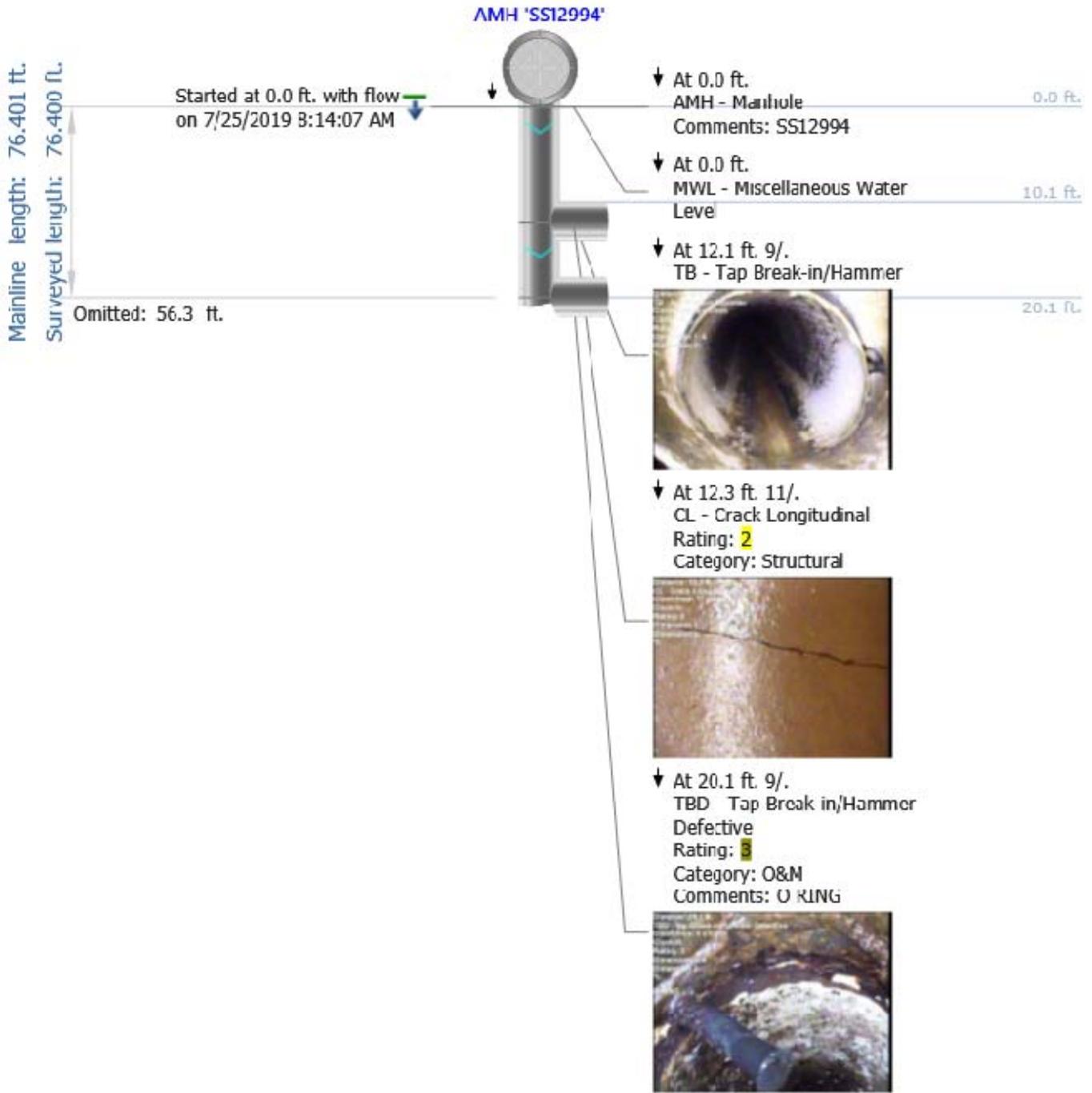
Weather:

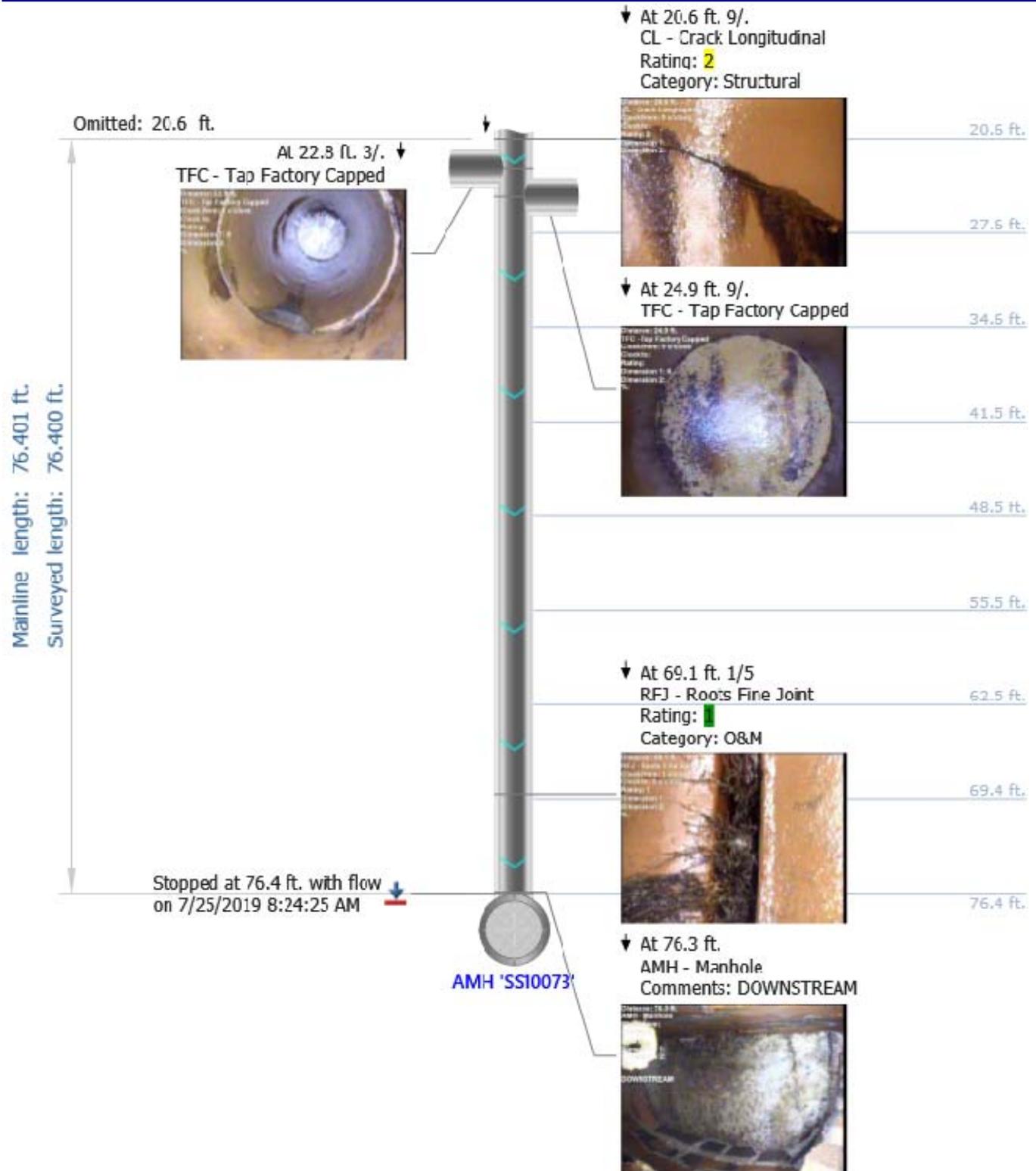
1



Main Inspections Pipe Run with Images

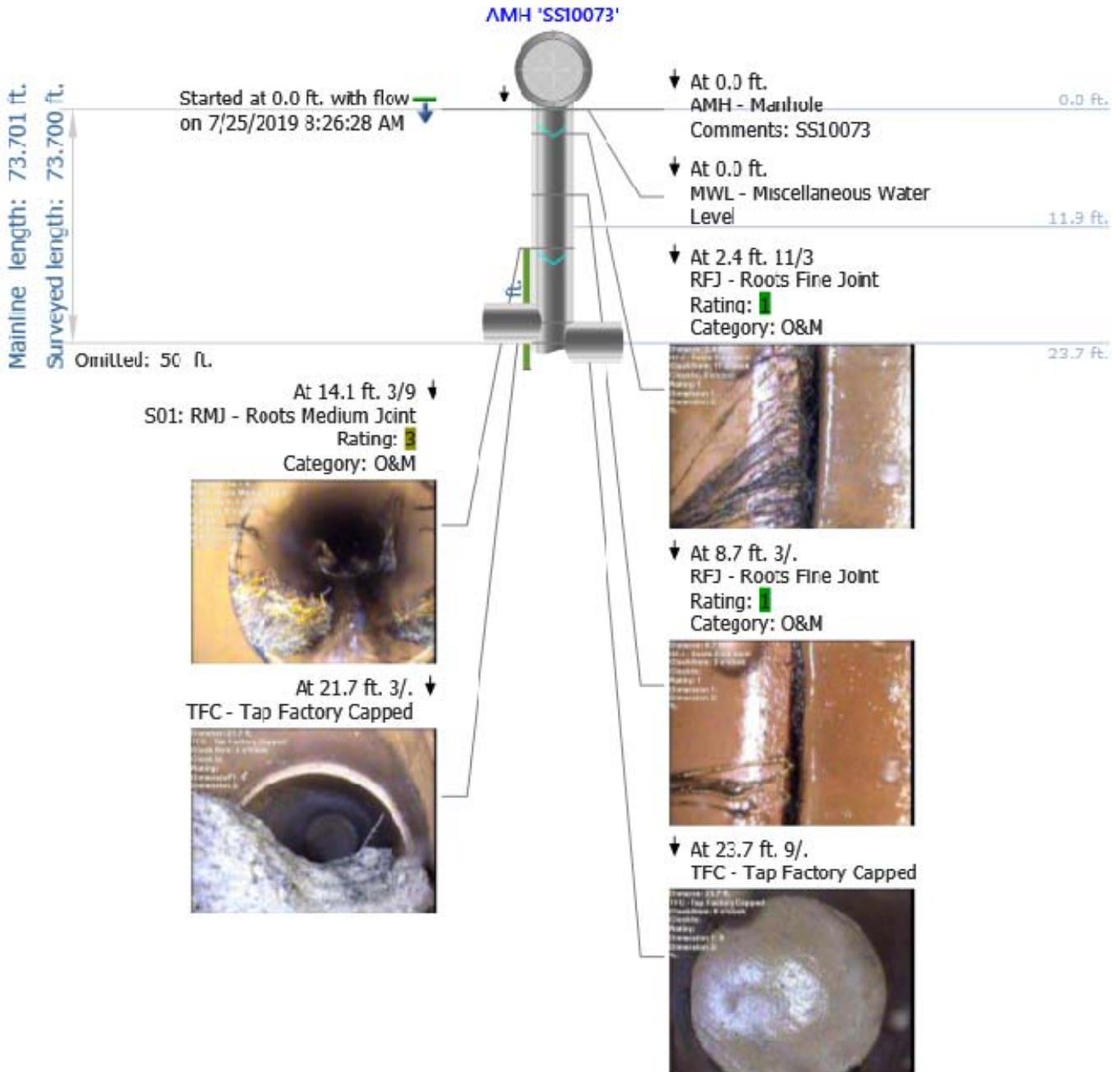
Project name: WEST05-65	Mainline ID: SM11394	City: WORCESTER	Street: WESTVIEW EASEMENT
Start date/time: 20190725-081407	Direction: D	Weather: 1	Location code:
Shape: C	Material: VCP	Height: 8 in.	Width:





Main Inspections Pipe Run with Images

Project name: WEST05-65	Mainline ID: SM3017	City: WORCESTER	Street: WESTVIEW EASEMENT
Start date/time: 20190725-082628	Direction: D	Weather: 1	Location code:
Shape: C	Material: VCP	Height: 8 in.	Width:



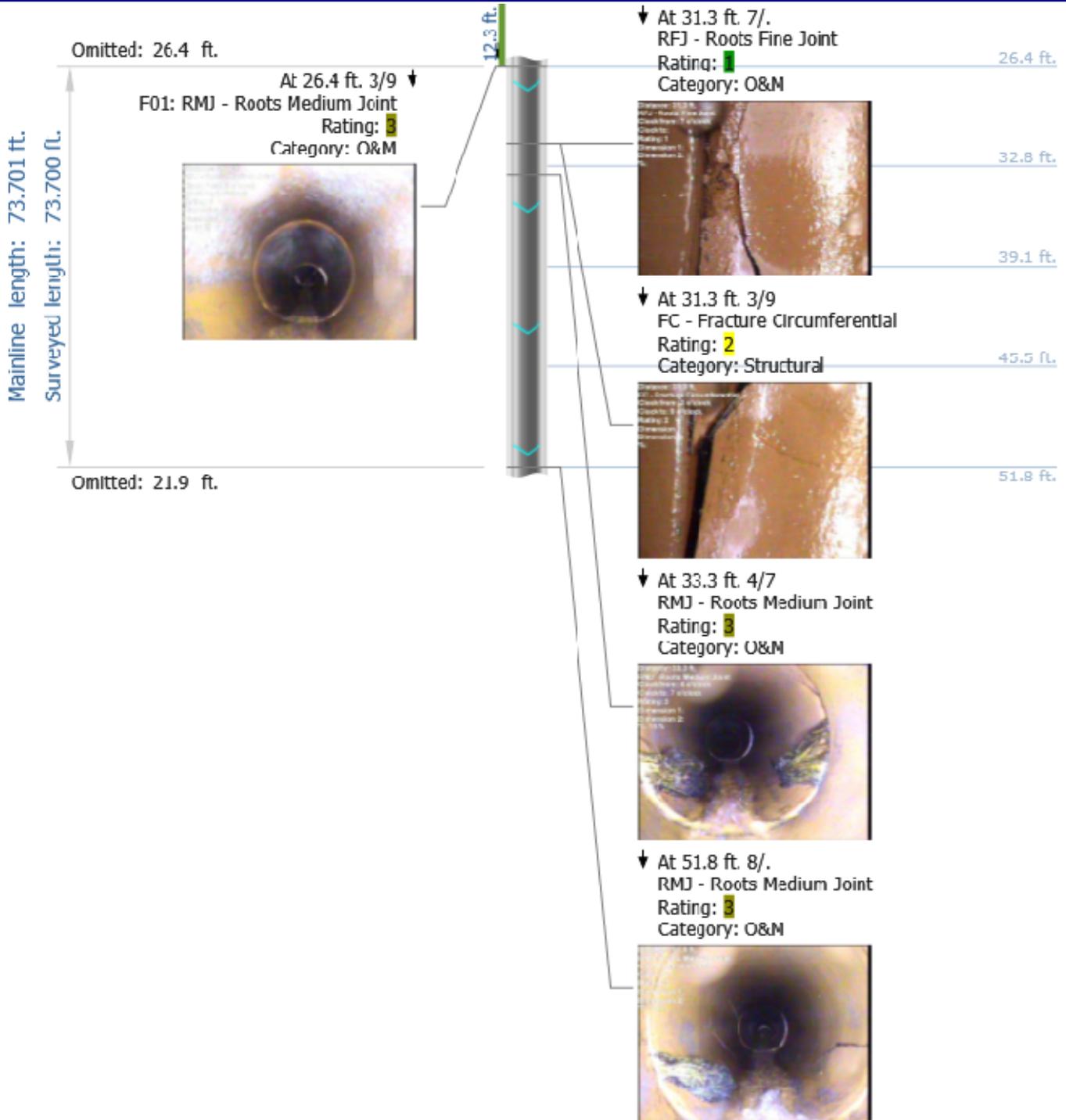
Project name:
WEST05-65

Mainline ID:
SM3017

Start date/time:
20190725-082628

Direction:
D

Weather:
1



Project name:
WEST05-65

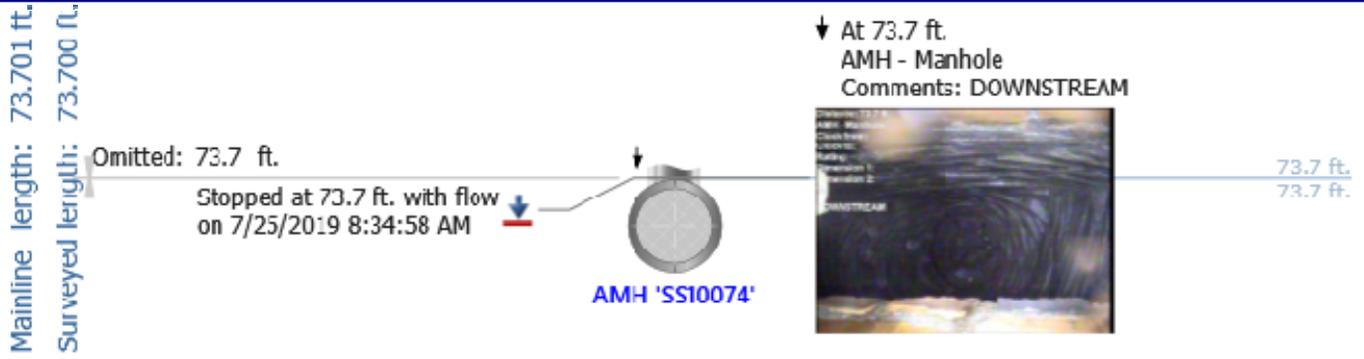
Mainline ID:
SM3017

Start date/time:
20190725-082628

Direction:
D

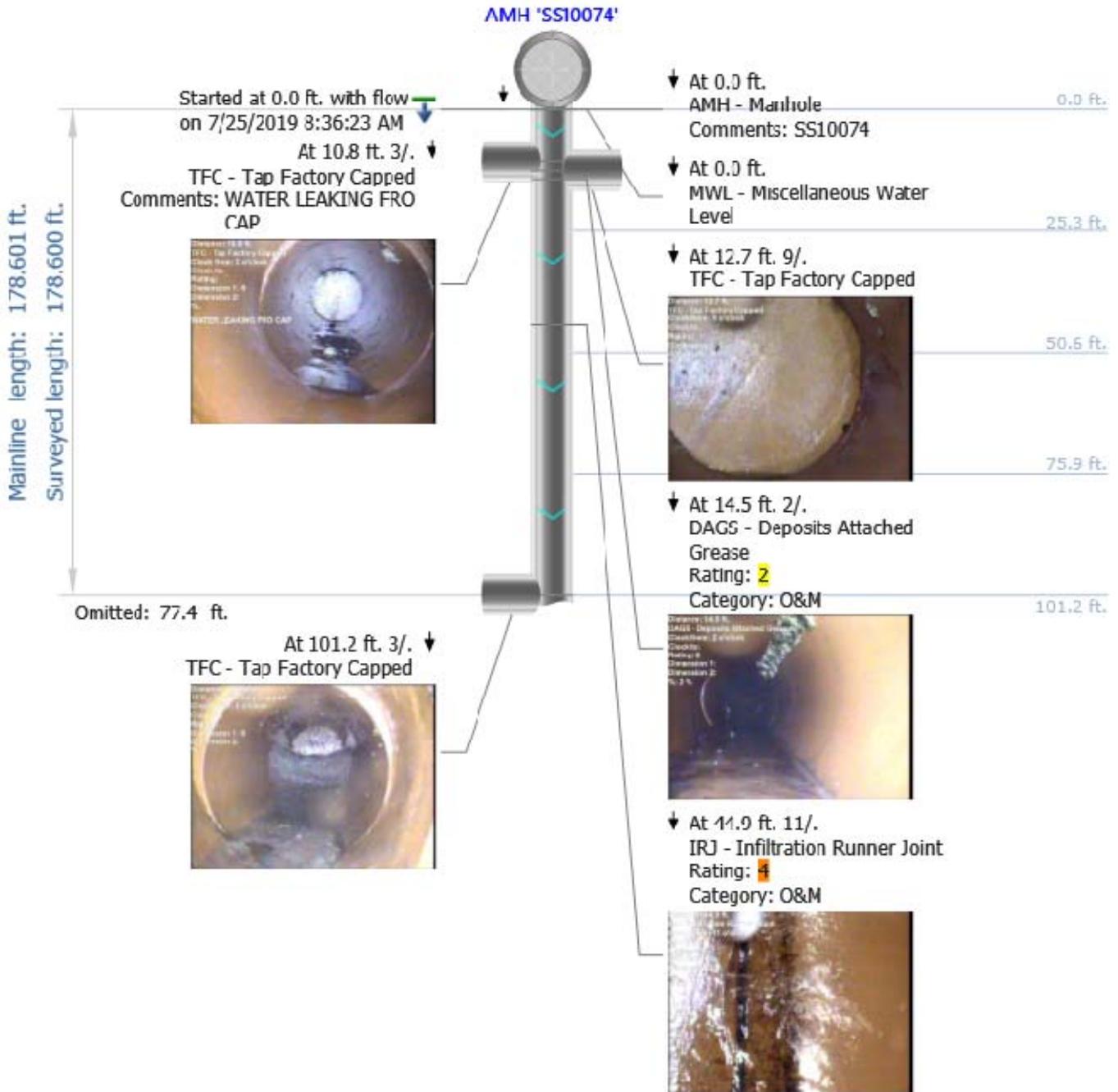
Weather:

1



Main Inspections Pipe Run with Images

Project name: WEST05-65	Mainline ID: SM02896	City: WORCESTER	Street: WESTVIEW EASEMENT
Start date/time: 20190725-083623	Direction: D	Weather: 1	Location code:
Shape: C	Material: VCP	Height: 8 in.	Width:



Project name:

WEST05-65

Mainline ID:

SM02896

Start date/time:

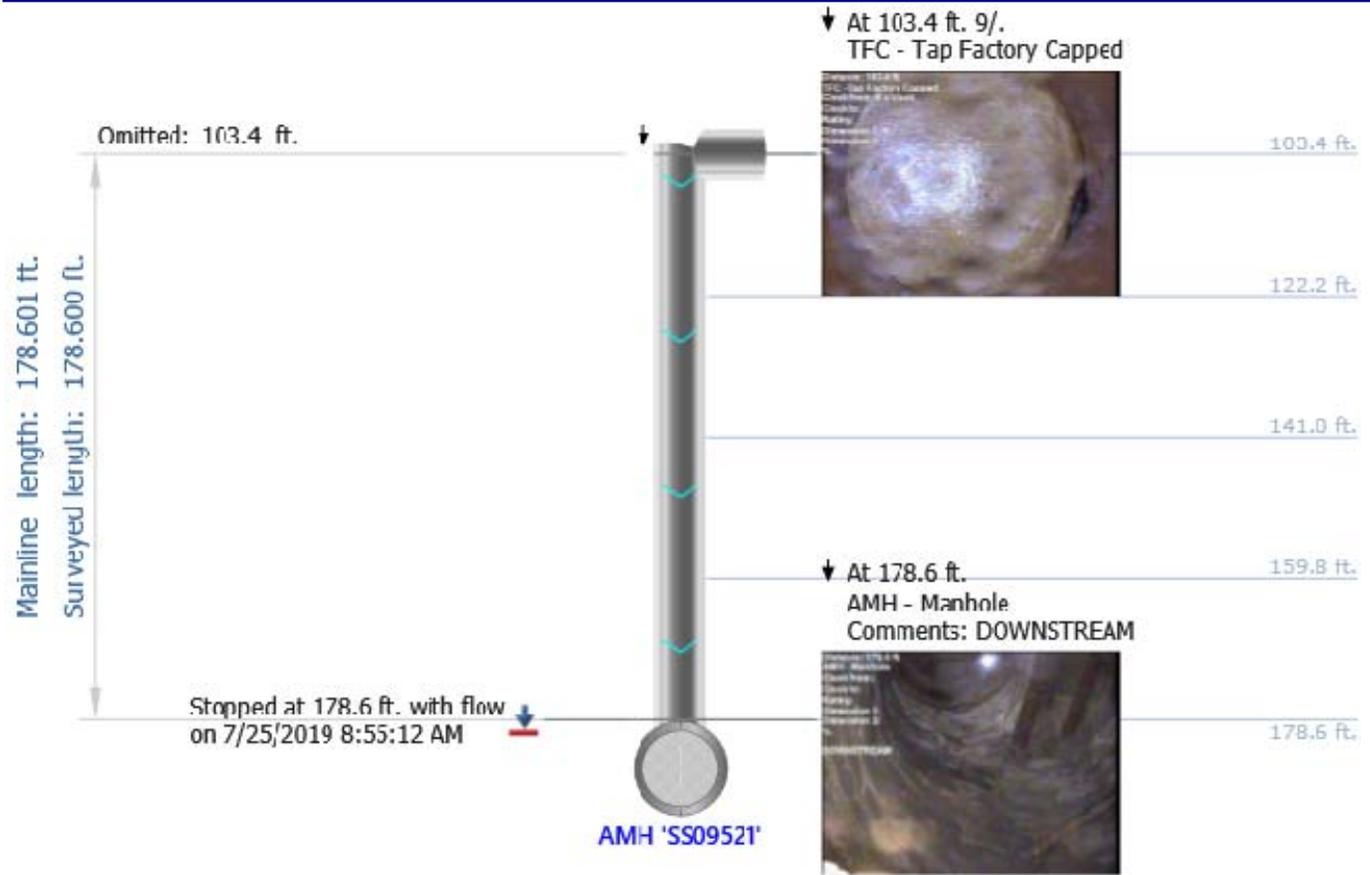
20190725-083623

Direction:

D

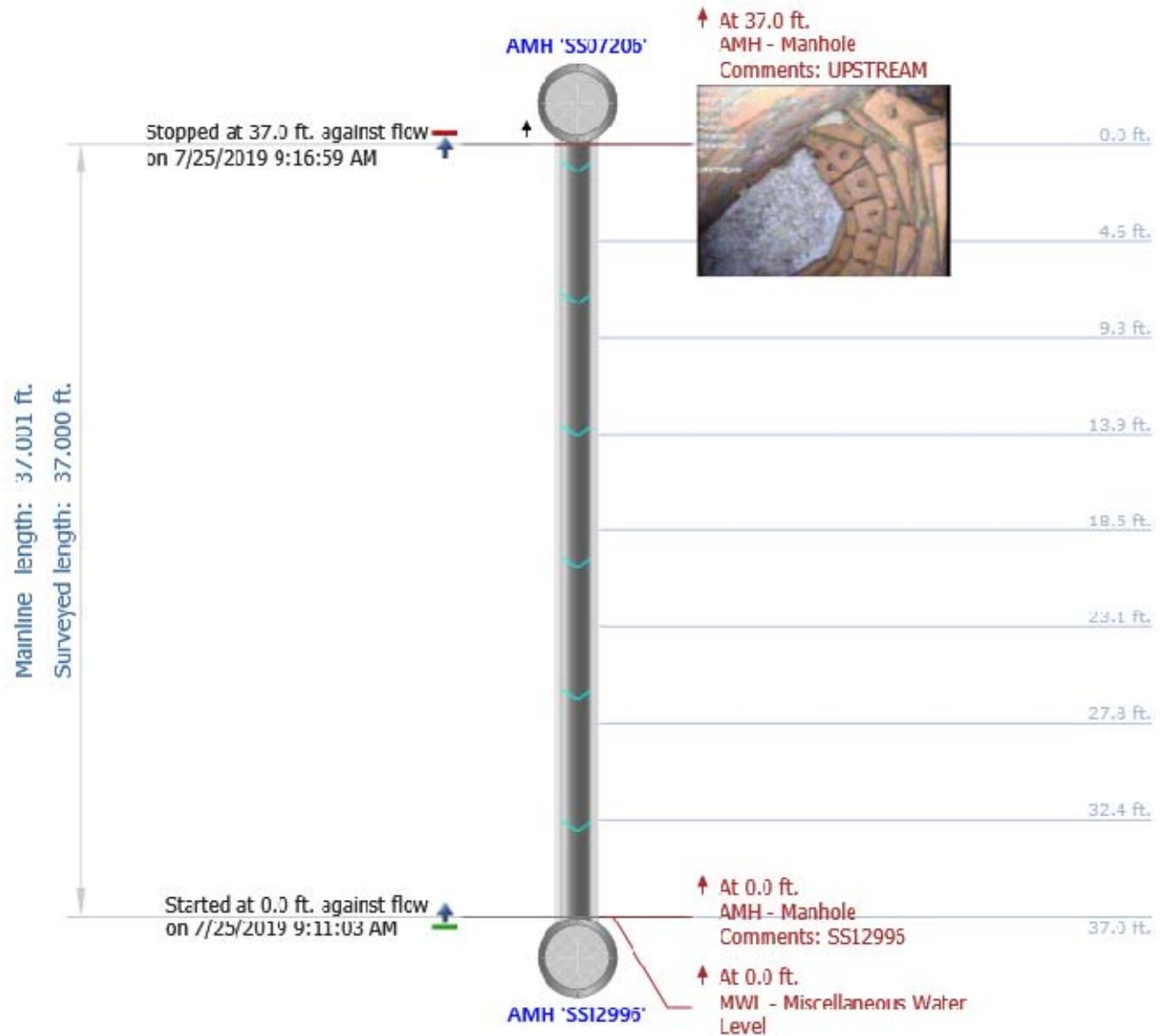
Weather:

1



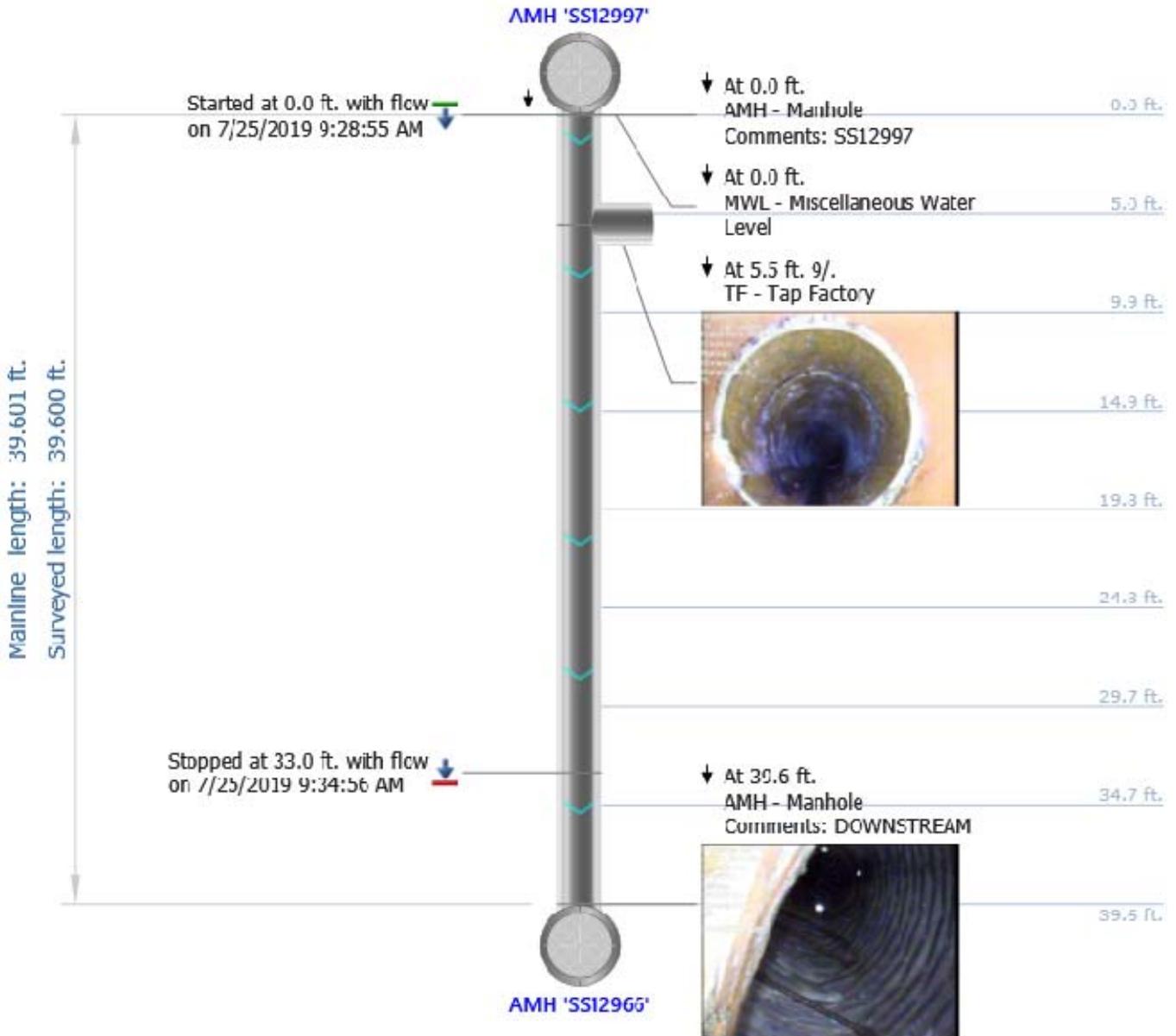
Main Inspections Pipe Run with Images

Project name: WEST05-65	Mainline ID: SM12784	City: WORCESTER MA	Street: WESTVIEW
Start date/time: 20190725-091103	Direction: U	Weather: 1	Location code:
Shape: C	Material: VCP	Height: 8 in.	Width:



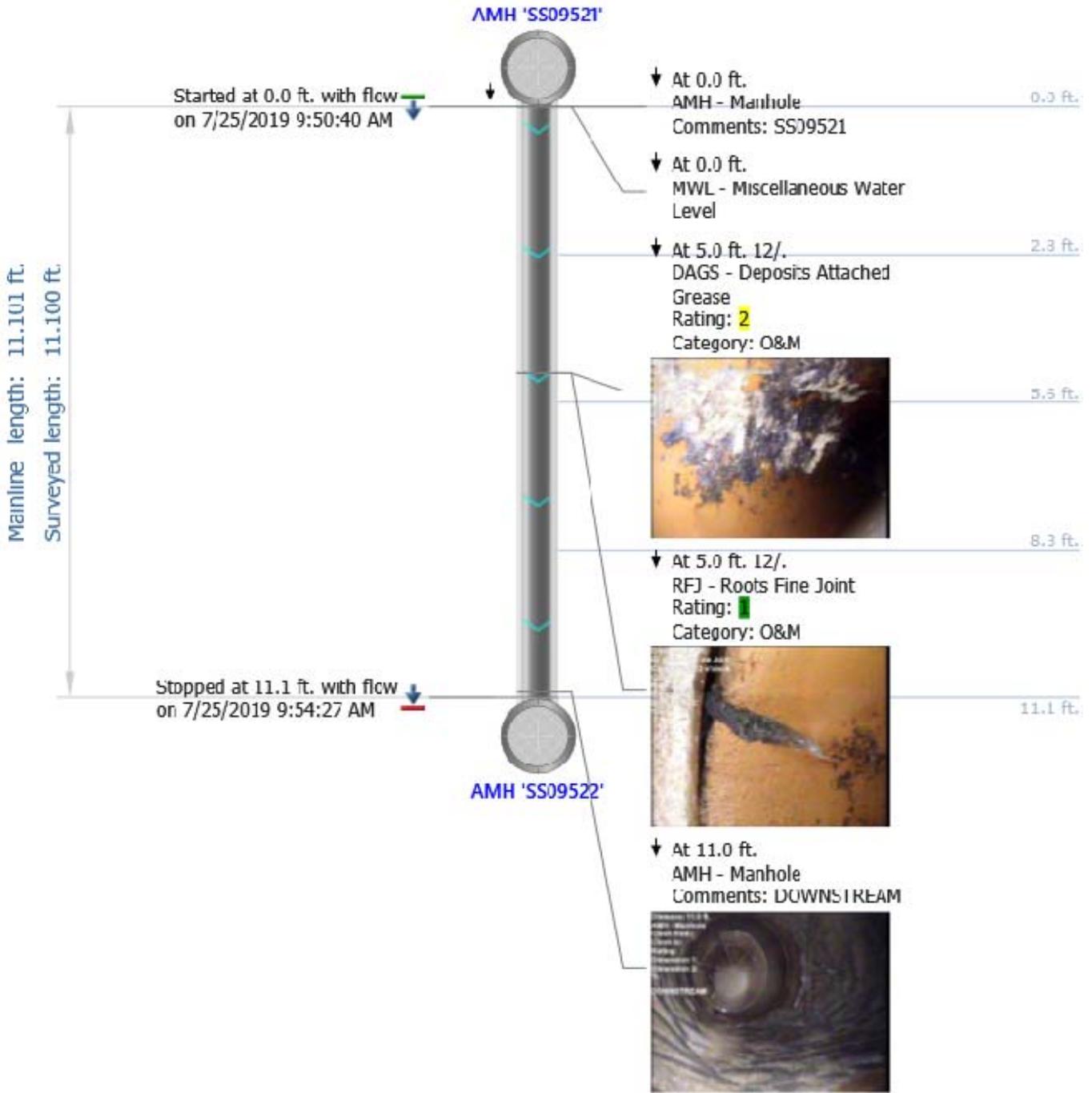
Main Inspections Pipe Run with Images

Project name: WEST05-65	Mainline ID: SM12785	City: WORCESTER	Street: WESTVIEW
Start date/time: 20190725-092855	Direction: D	Weather: 1	Location code:
Shape: C	Material: VCP	Height: 8 in.	Width:



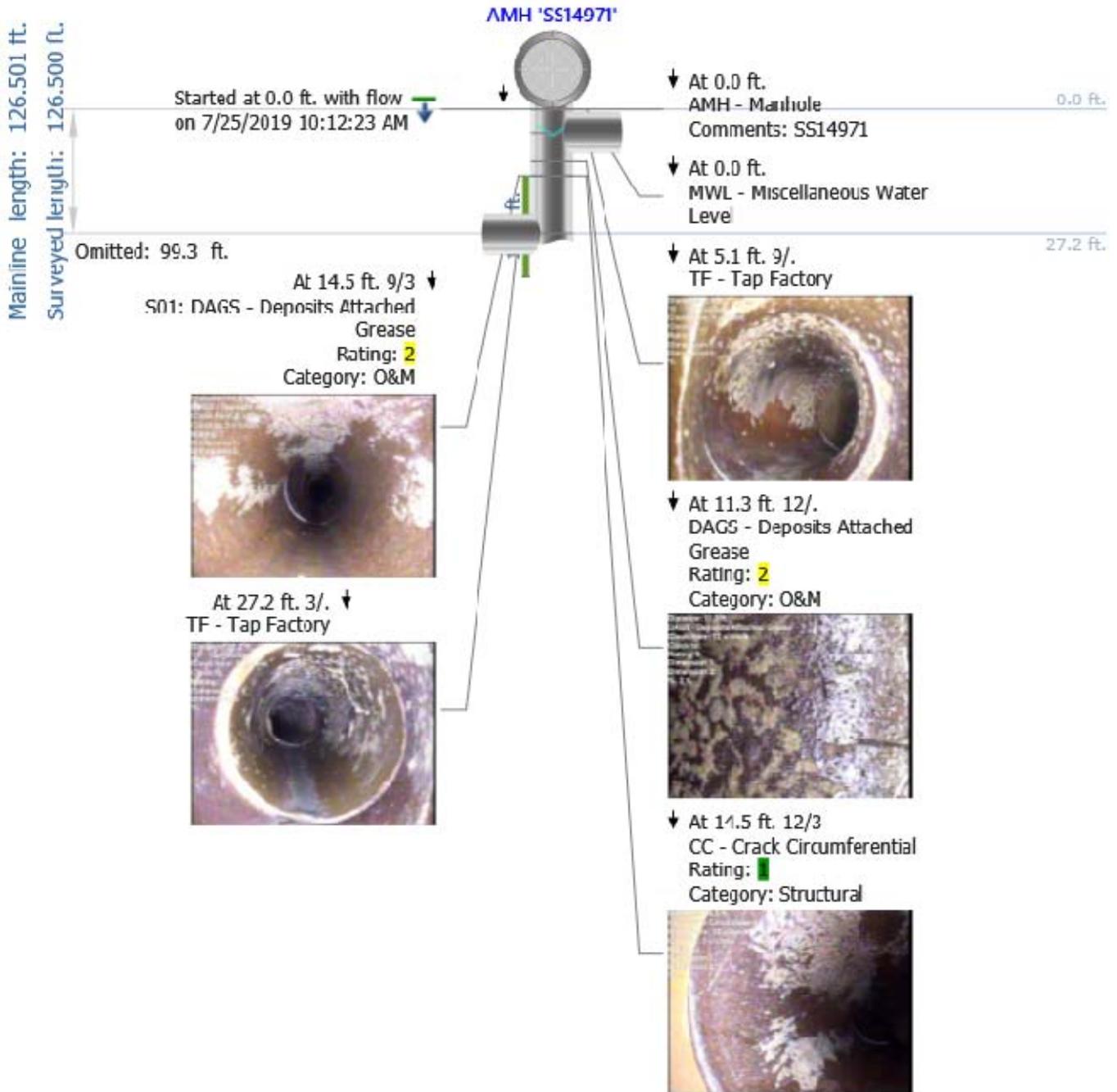
Main Inspections Pipe Run with Images

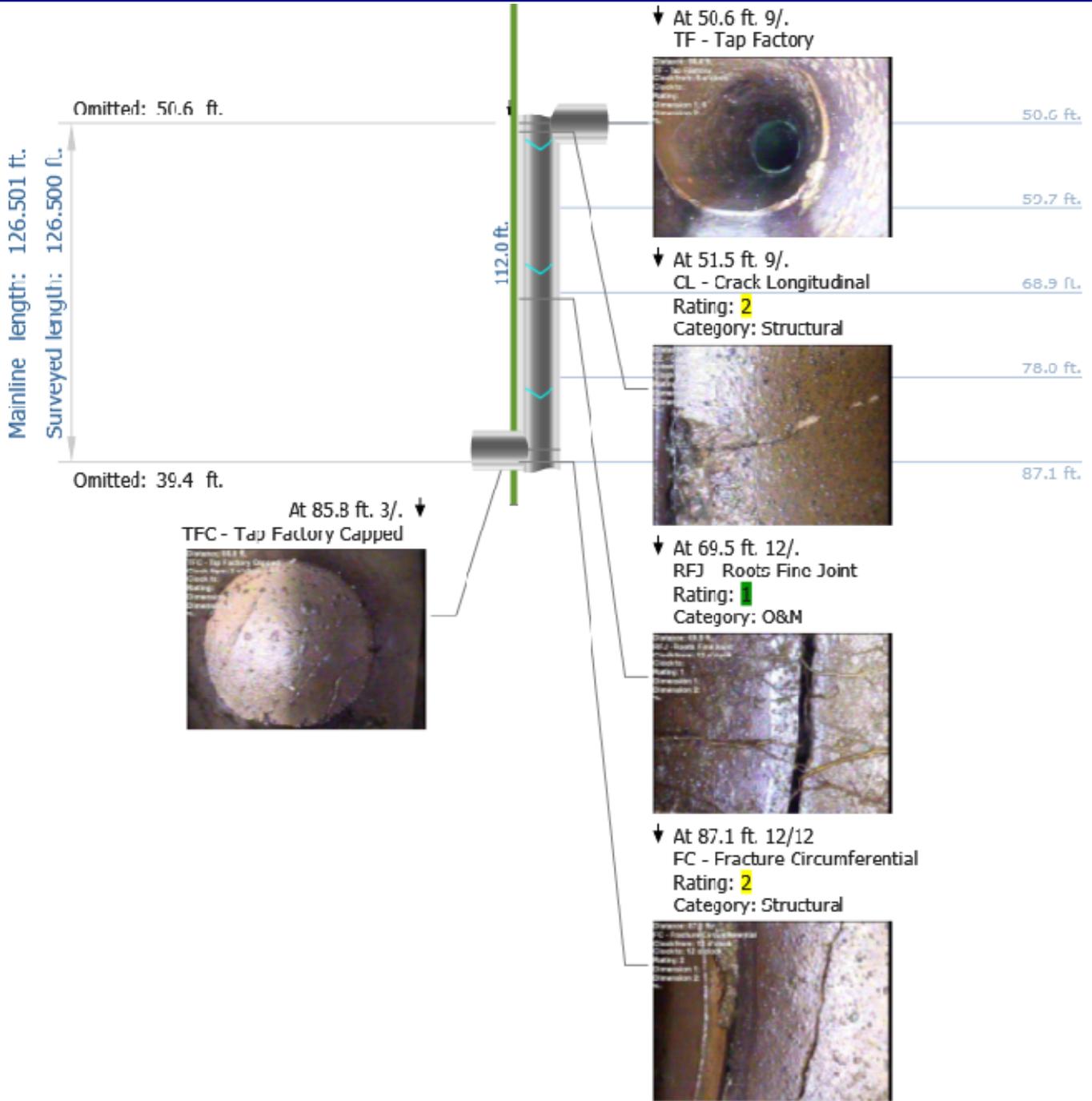
Project name: WEST05-65	Mainline ID: SM02895	City: WORCESTER MA	Street: WESTVIEW
Start date/time: 20190725-095040	Direction: D	Weather: 1	Location code:
Shape: C	Material: VCP	Height: 8 in.	Width:

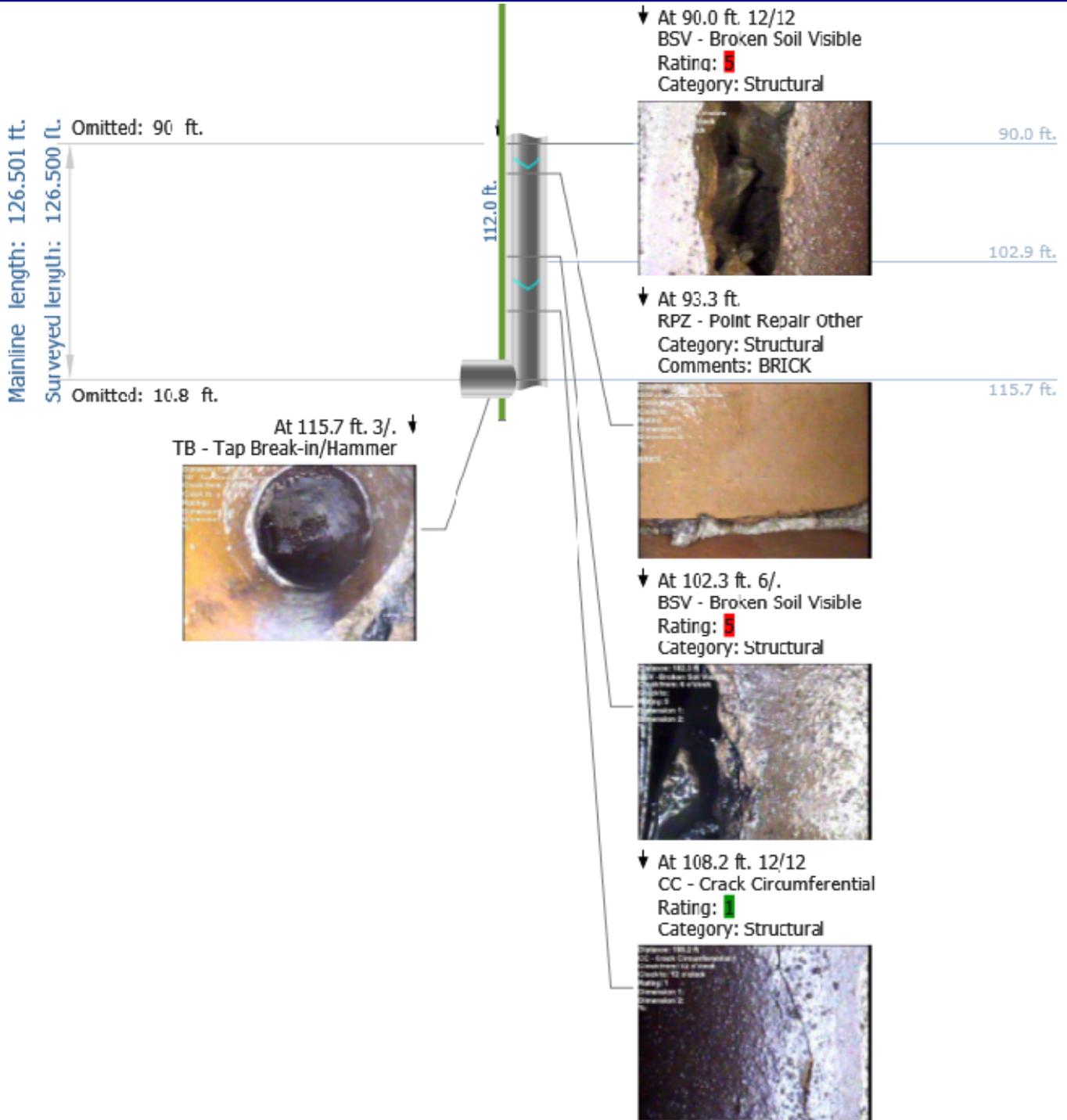


Main Inspections Pipe Run with Images

Project name: WEST05-65	Mainline ID: SM12124	City: WORCESTER MA	Street: UNDERWOOD
Start date/time: 20190725-101223	Direction: D	Weather: 1	Location code:
Shape: C	Material: VCP	Height: 8 in.	Width:







Project name:

WEST05-65

Mainline ID:

SM12124

Start date/time:

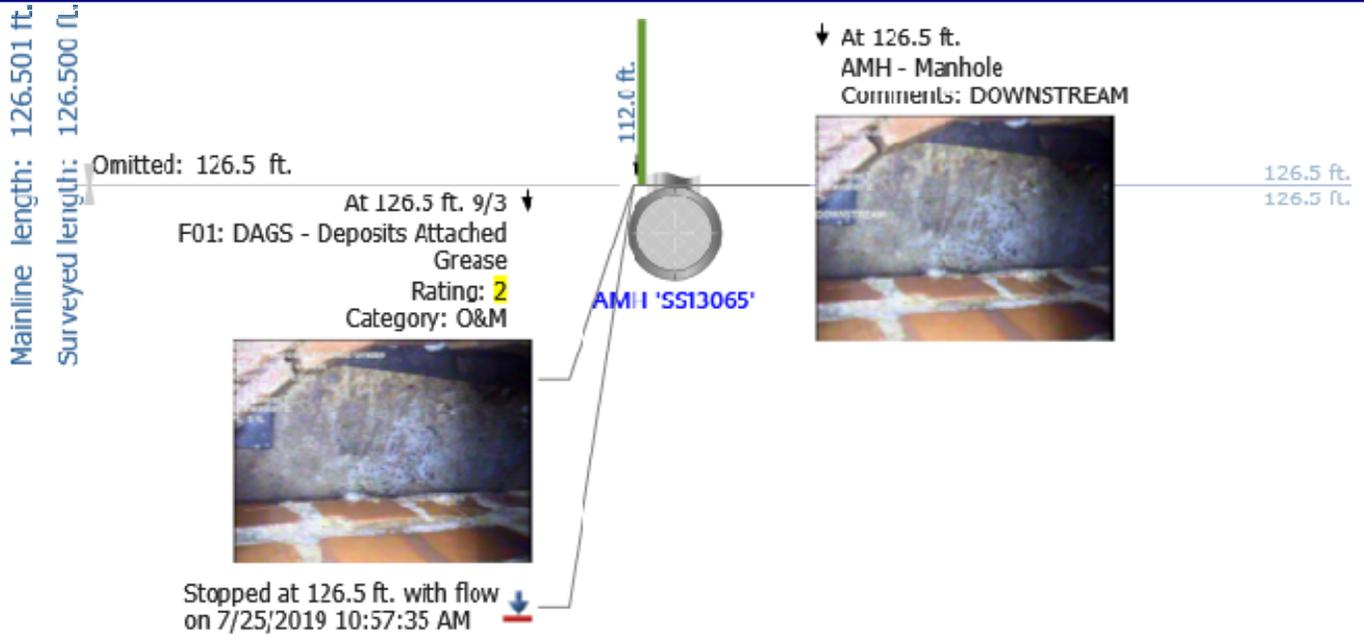
20190725-101223

Direction:

D

Weather:

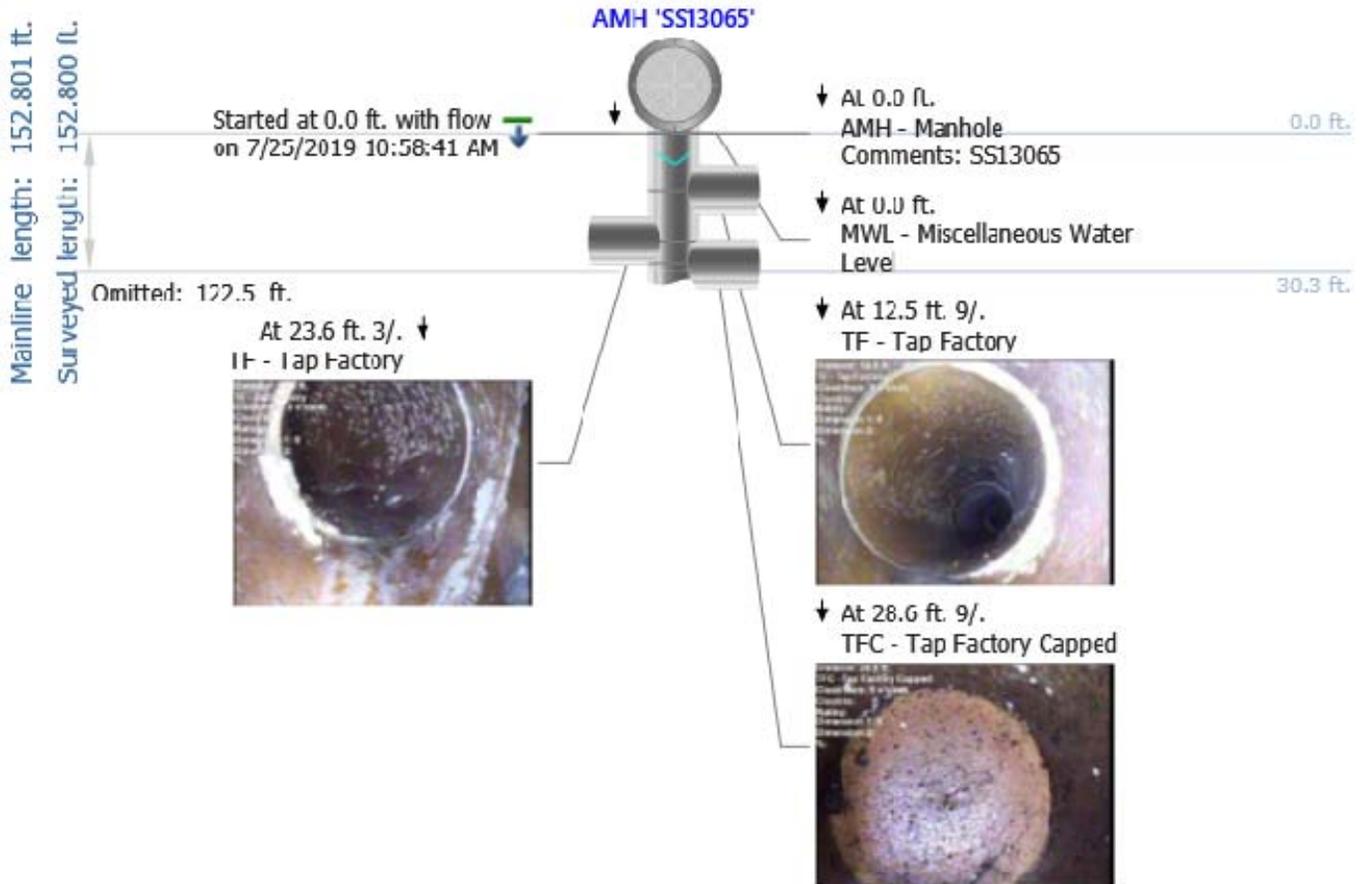
1

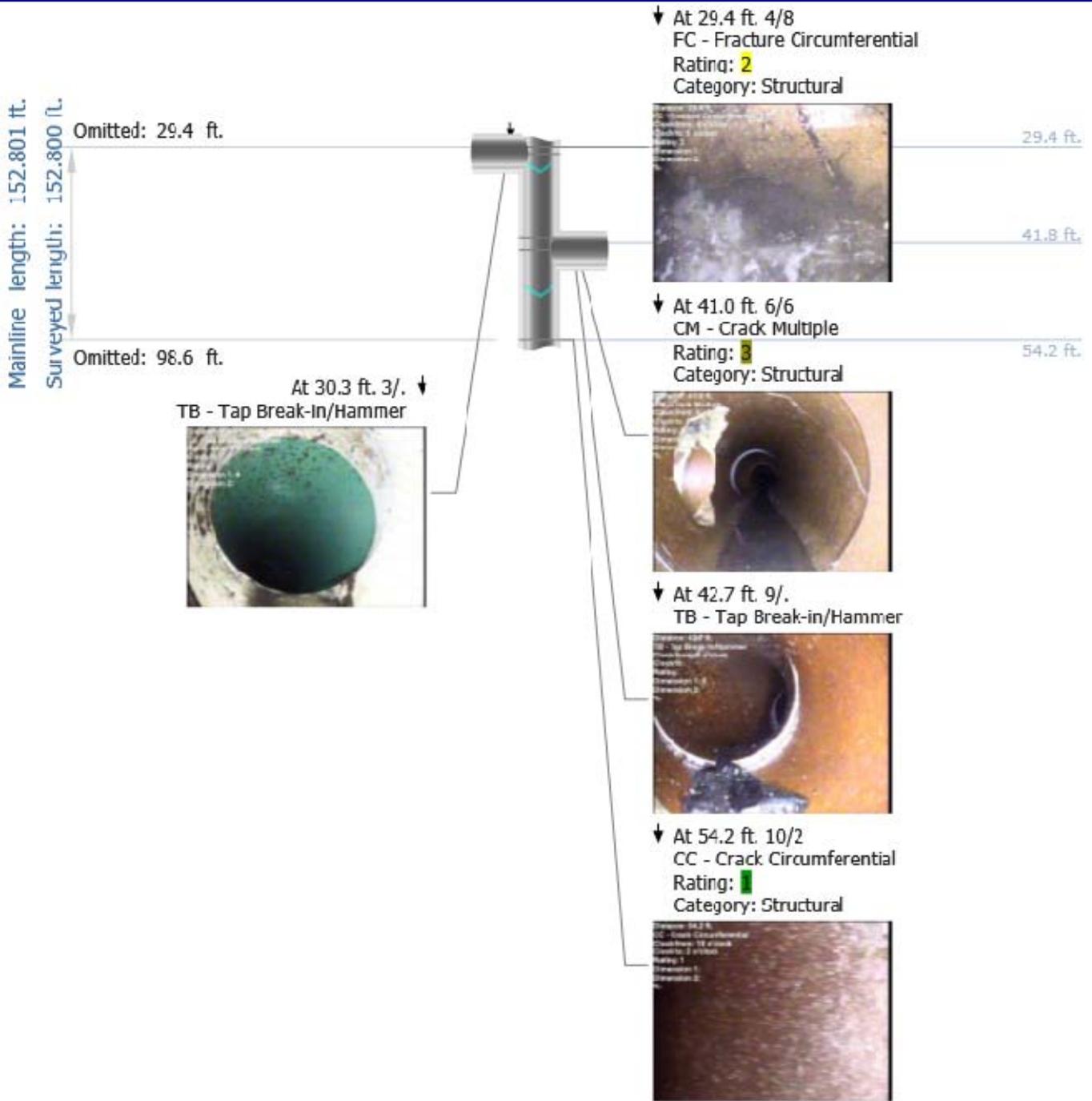


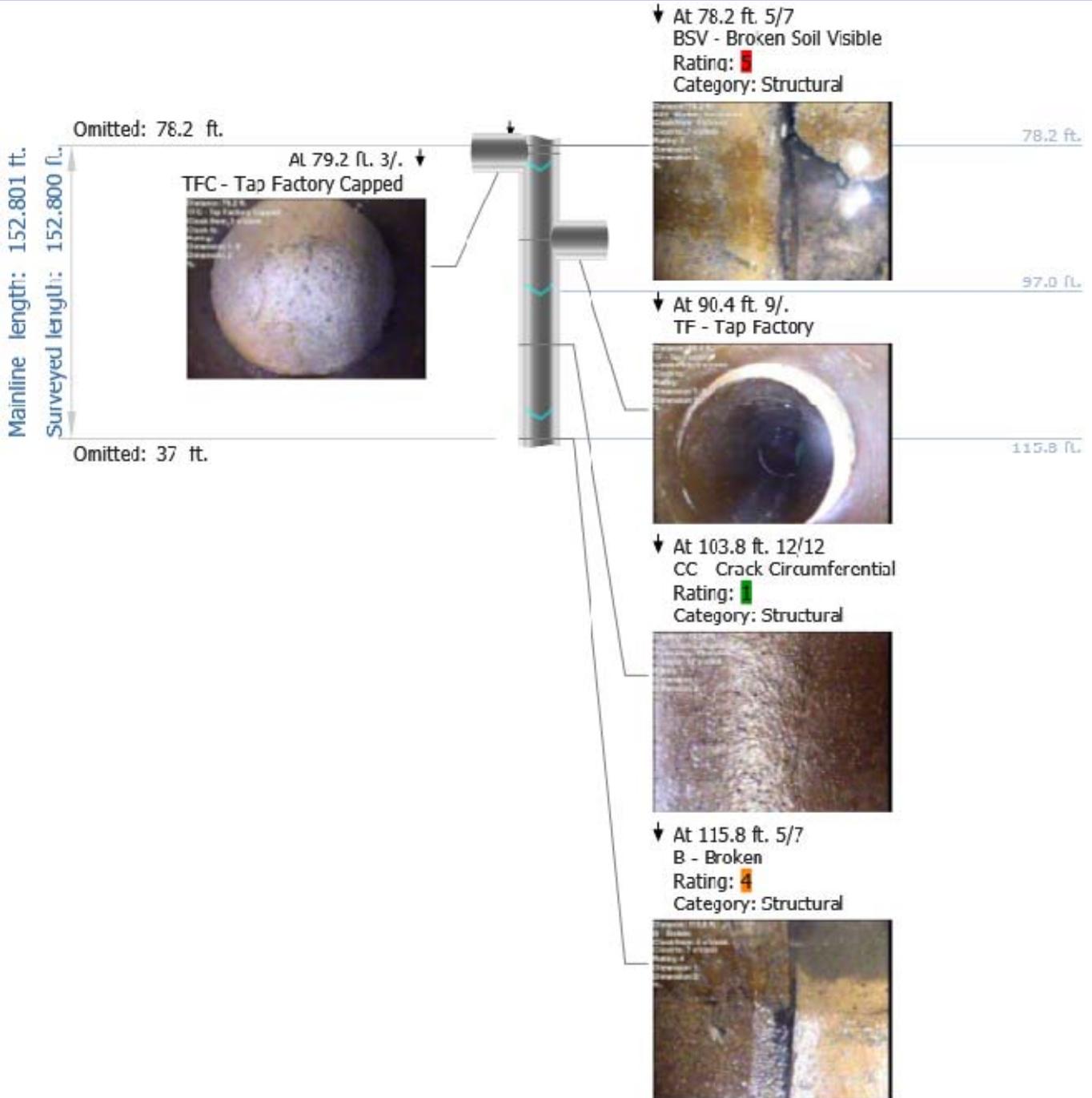
Main Inspections Pipe Run with Images

Project name: WEST05-65	Mainline ID: SM09276	City: WORCESTER MA	Street: UNDERWOOD
Start date/time: 20190725-105841	Direction: D	Weather: 1	Location code:
Shape: C	Material: VCP	Height: 8 in.	Width:

Stopped at -117.3 ft. with flow ↓
on 7/25/2019 11:28:38 AM







Project name:

WEST05-65

Mainline ID:

SM09276

Start date/time:

20190725-105841

Direction:

D

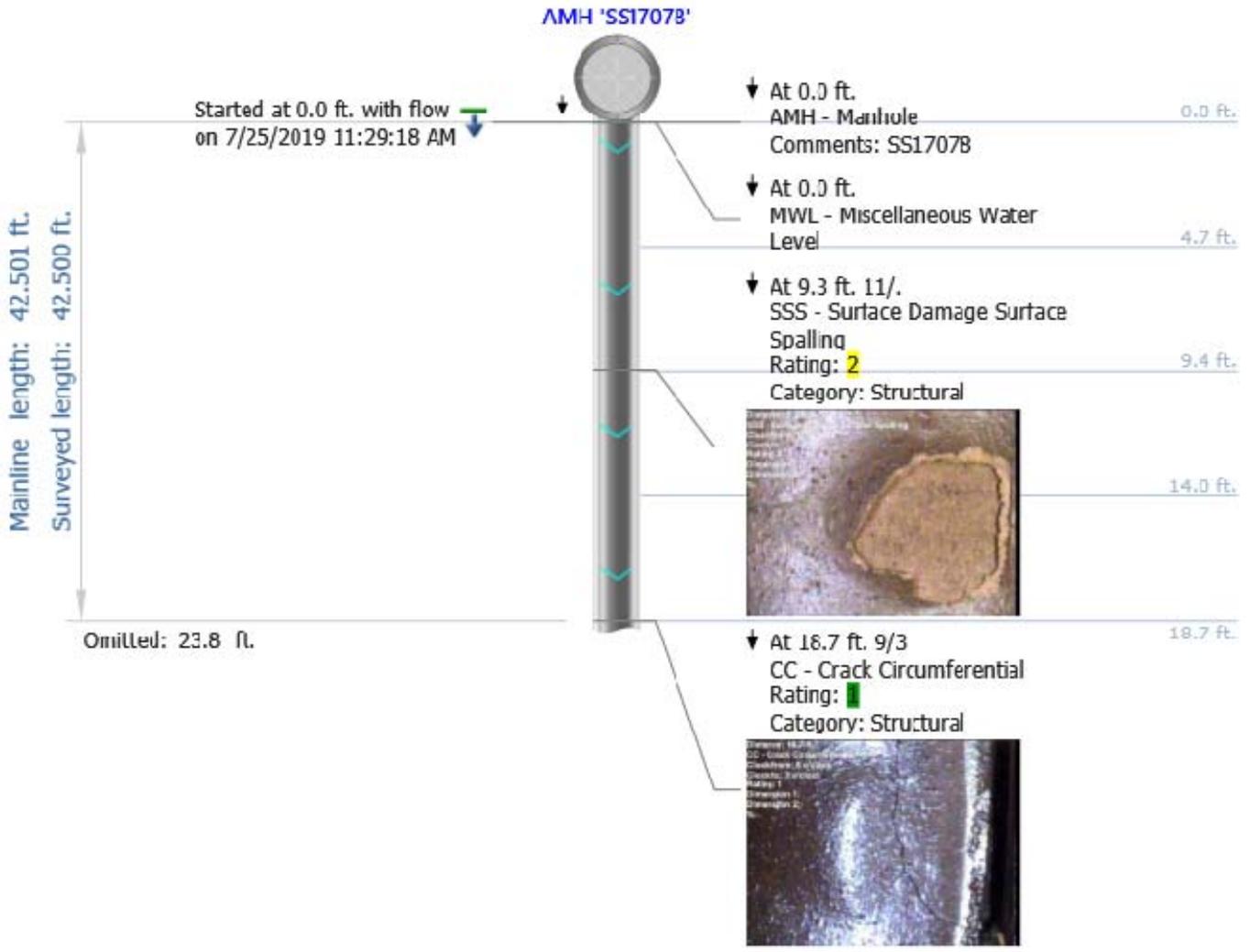
Weather:

1



Main Inspections Pipe Run with Images

Project name: WEST05-65	Mainline ID: SM17545	City: WORCESTER MA	Street: UNDERWOOD
Start date/time: 20190725-112918	Direction: D	Weather: 1	Location code:
Shape: C	Material: VCP	Height: 8 in.	Width:



Project name:
WEST05-65

Mainline ID:
SM17545

Start date/time:
20190725-112918

Direction:
D

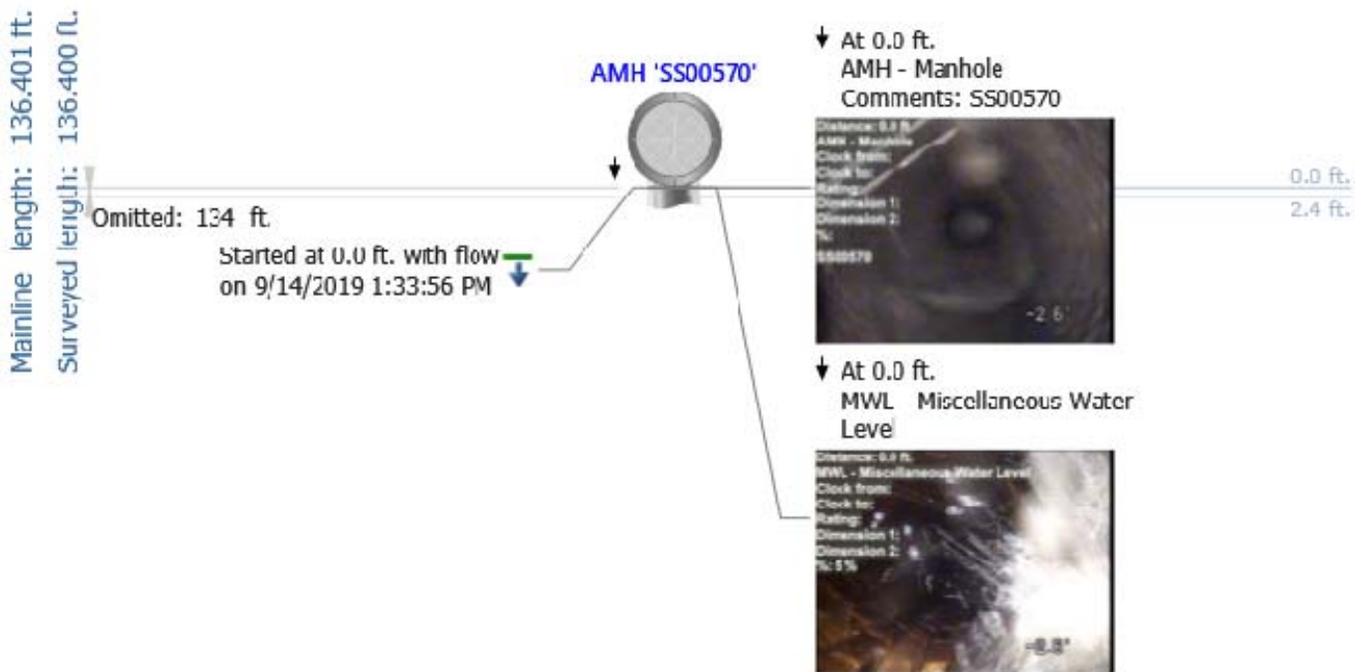
Weather:
1

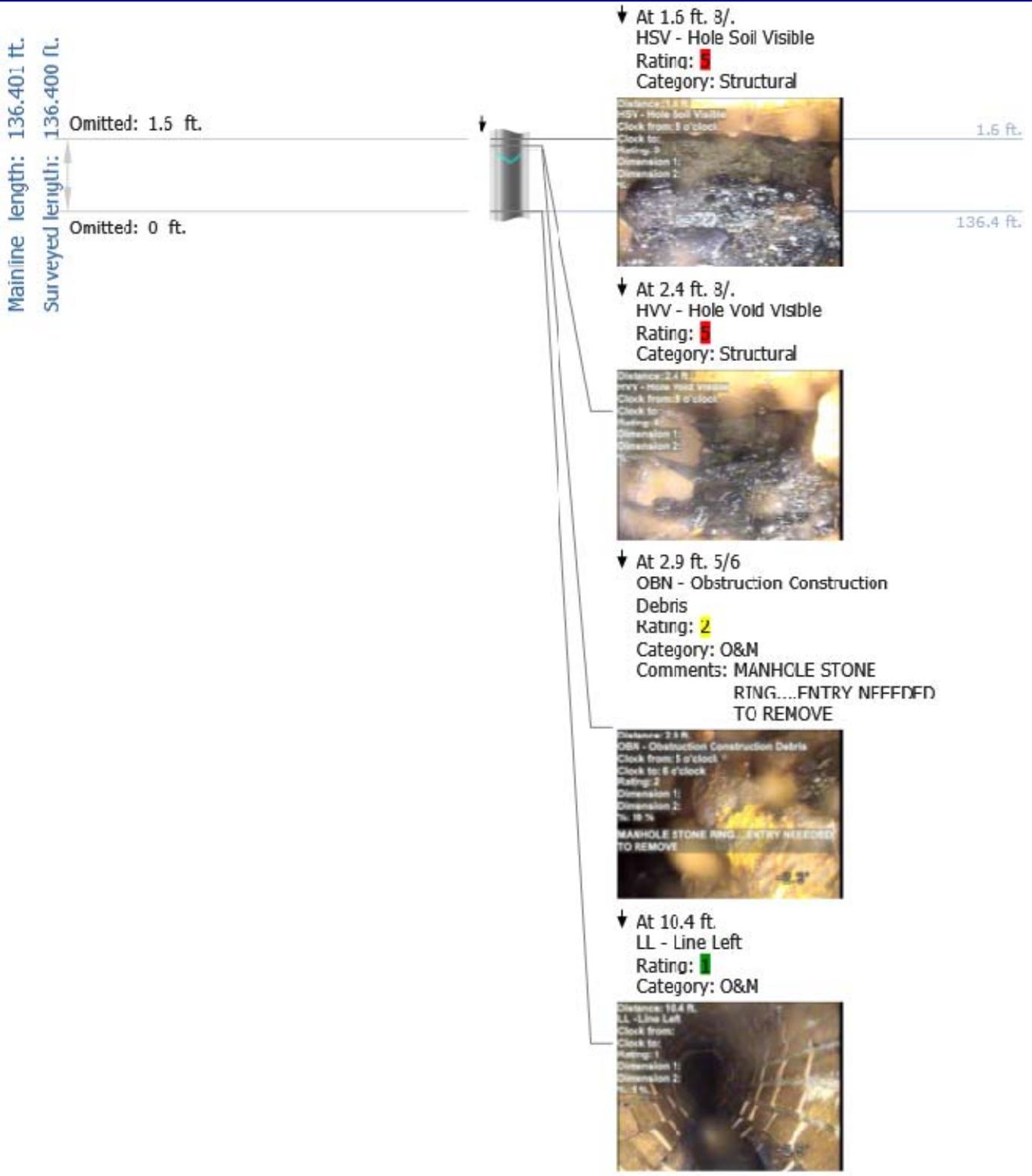


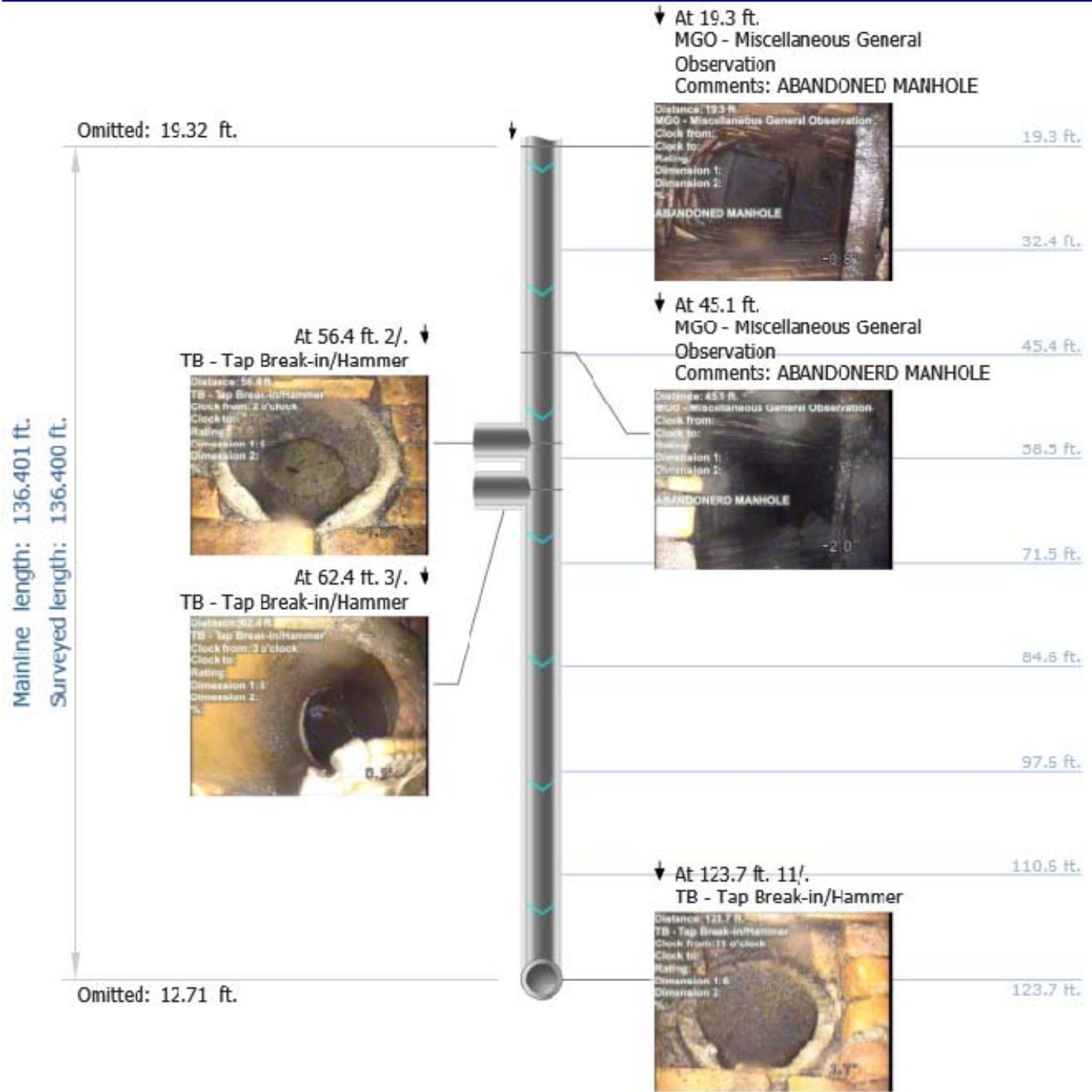
Main Inspections Pipe Run with Images

Project name: WEST05-65	Mainline ID: SM03568	City: WORCESTER	Street: MAIN ST
Start date/time: 20190914-133356	Direction: D	Weather: 1	Location code:
Shape: E	Material: BR	Height: 27 in.	Width: 18 in.

Stopped at -1/9.3 ft. with flow
on 9/14/2019 3:19:01 PM 







Project name:
WEST05-65

Mainline ID:
SM03568

Start date/time:
20190914-133356

Direction:
D

Weather:

1

Mainline length: 136.401 ft.
Surveyed length: 136.400 ft.

Omitted: 136.4 ft.



At 136.4 ft.
MSA - Miscellaneous Survey
Abandoned
Category: O&M
Comments: SURVEY ENDS

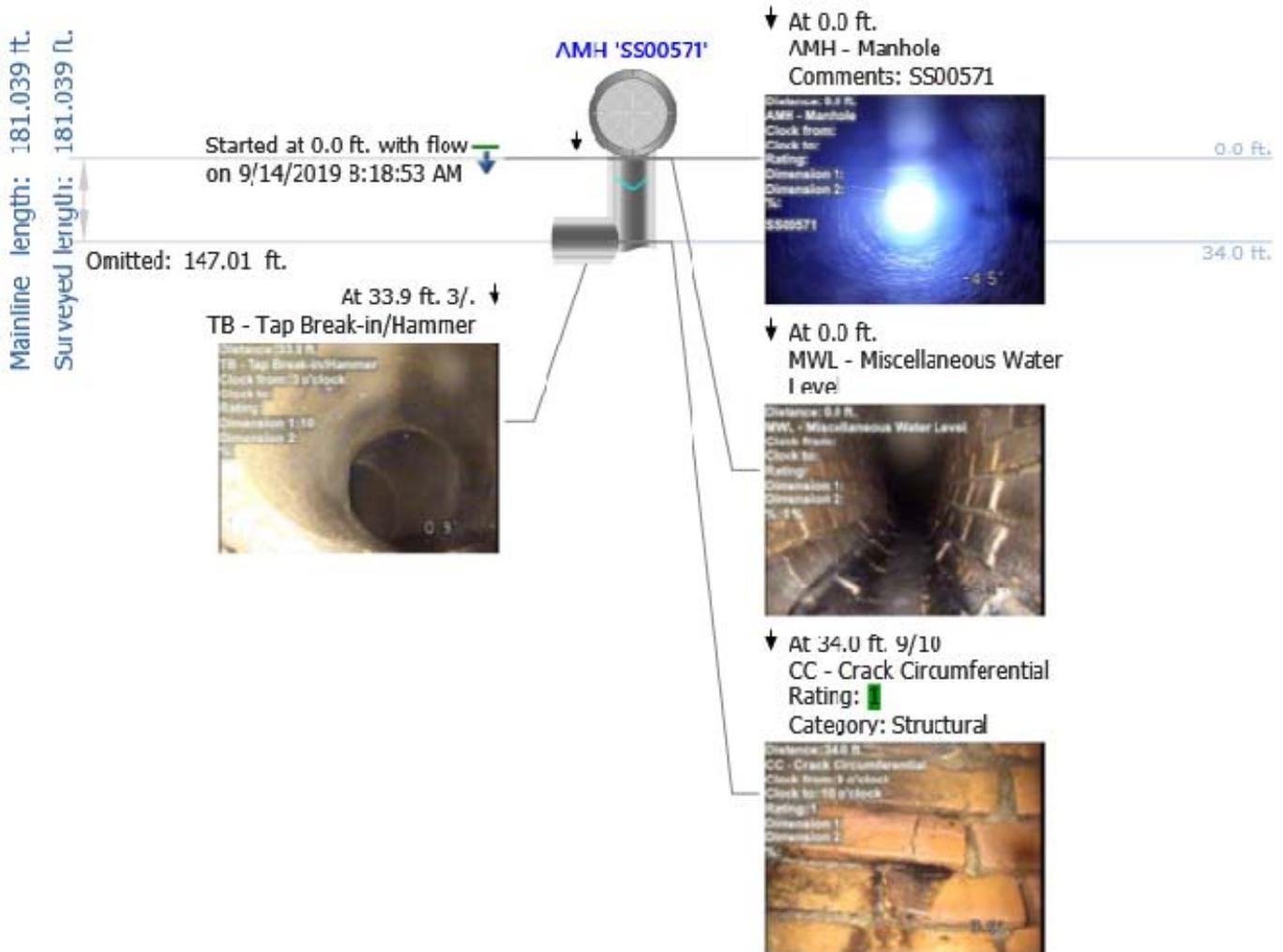


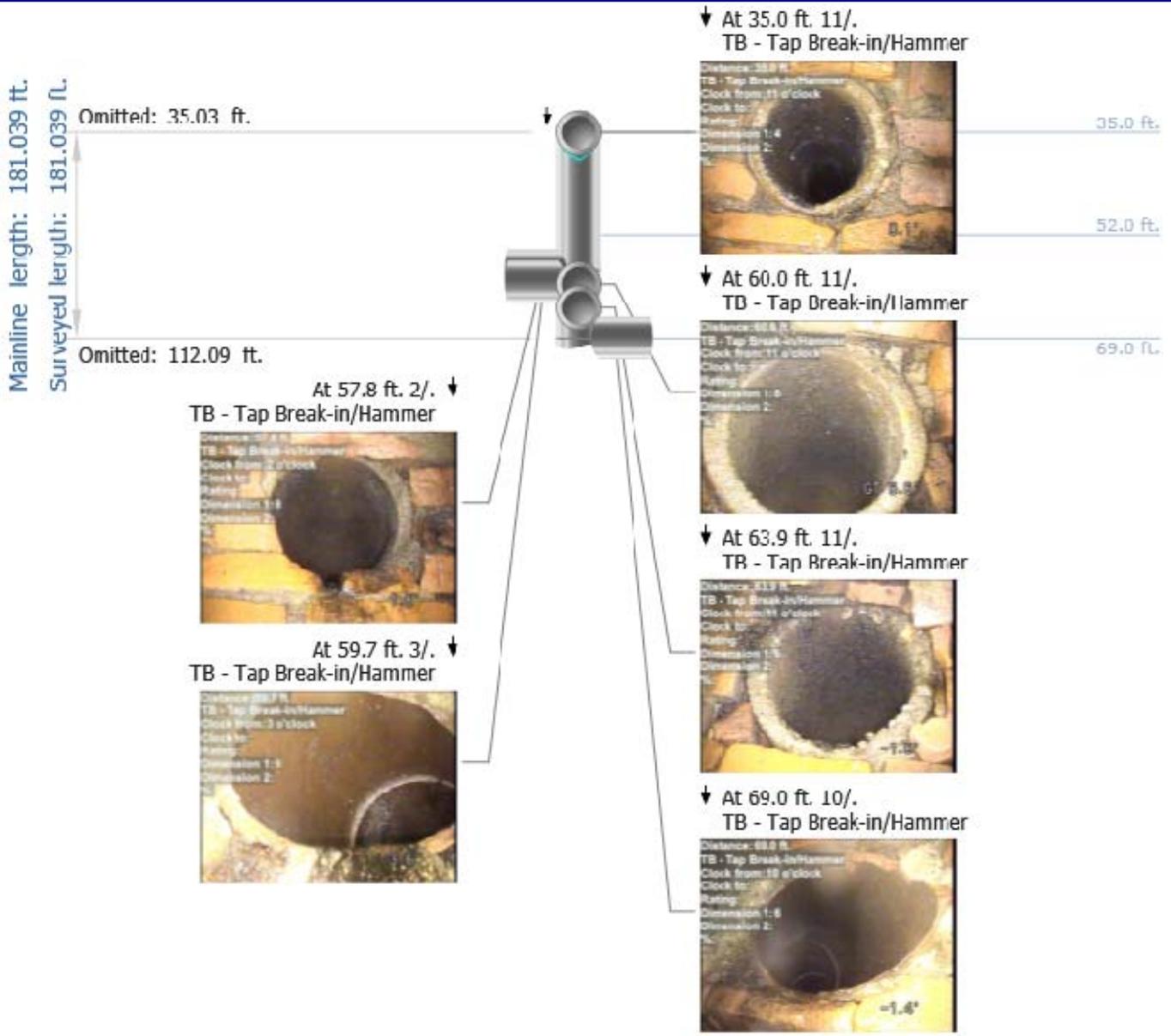
136.4 ft.
136.4 ft.

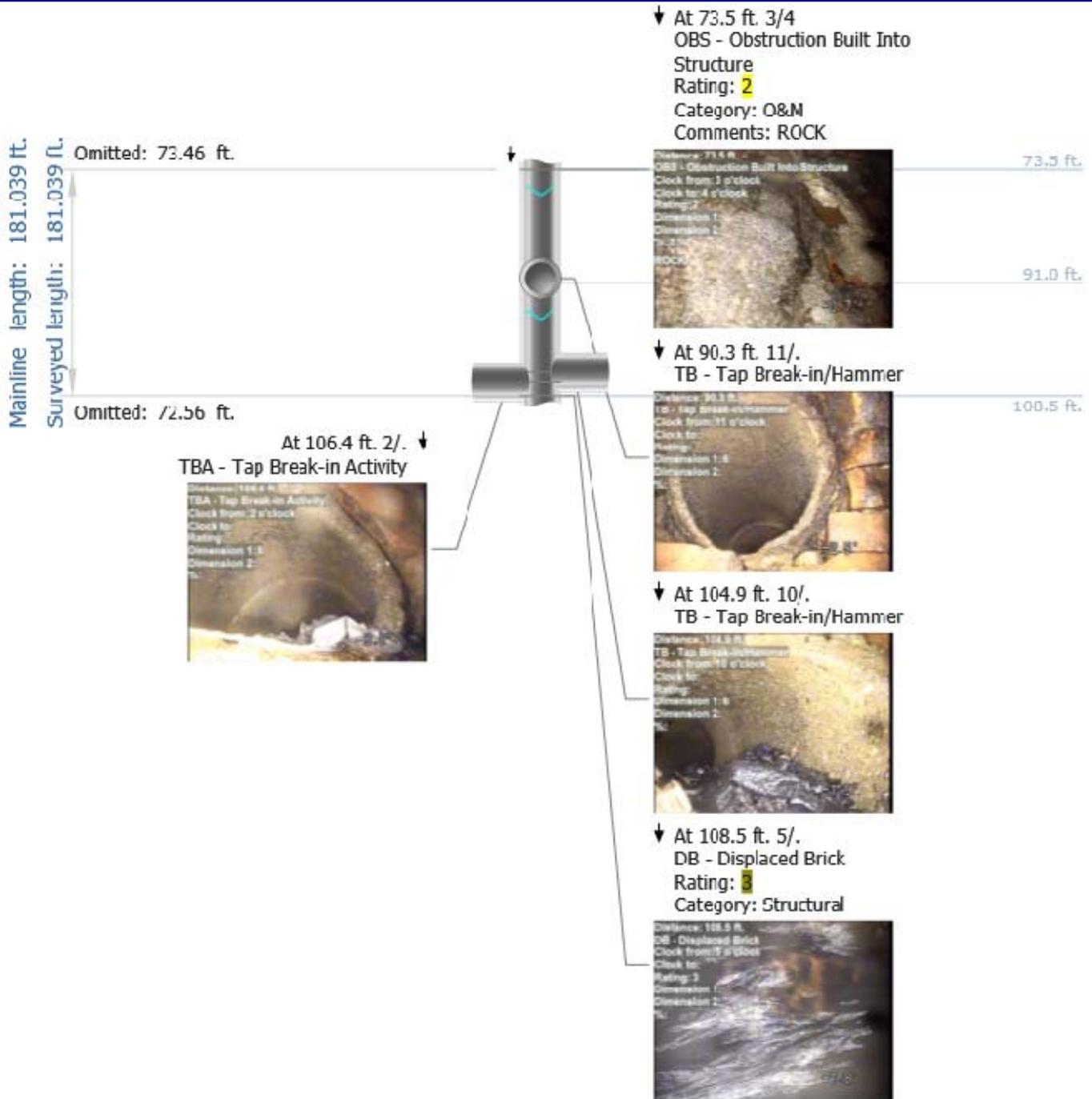


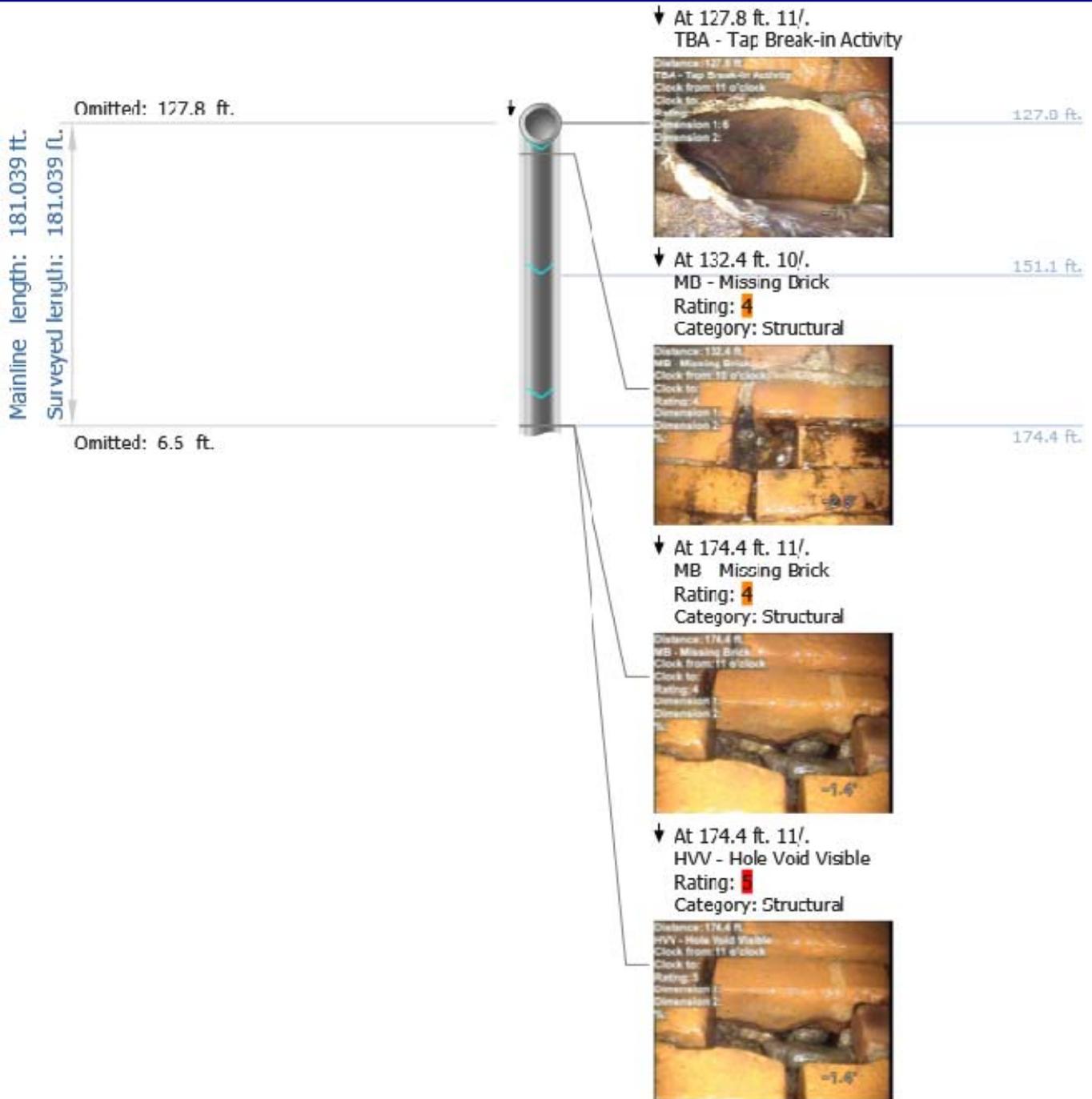
Main Inspections Pipe Run with Images

Project name:	Mainline ID:	City:	Street:
WEST05-65	SM09747	WORCESTER	MAIN ST
Start date/time:	Direction:	Weather:	Location code:
20190914-081853	D	3	
Shape:	Material:	Height:	Width:
E	BR	27 in.	18 in.









Project name:

WEST05-65

Mainline ID:

SM09747

Start date/time:

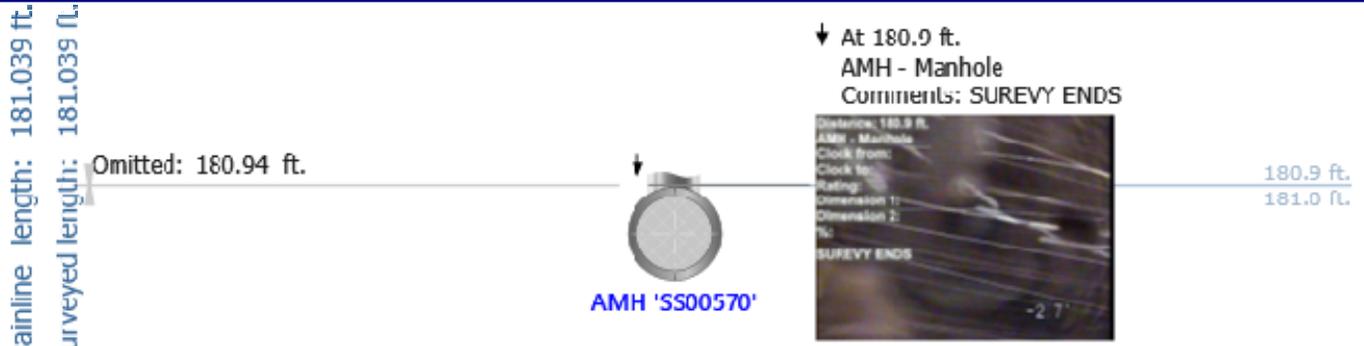
20190914-081853

Direction:

D

Weather:

3



Some observations have distance greater than the pipe length

Project name:

WEST05-65

Mainline ID:

SM09747

Start date/time:

20190914-081853

Direction:

D

Weather:

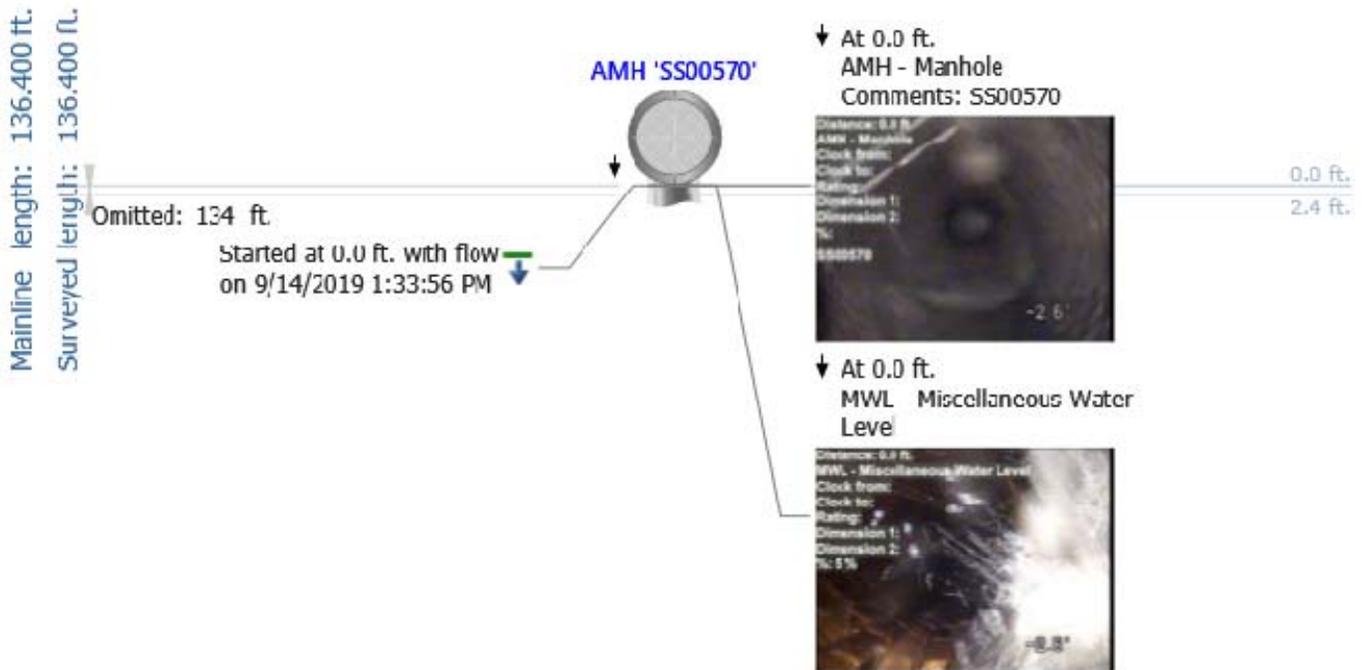
3

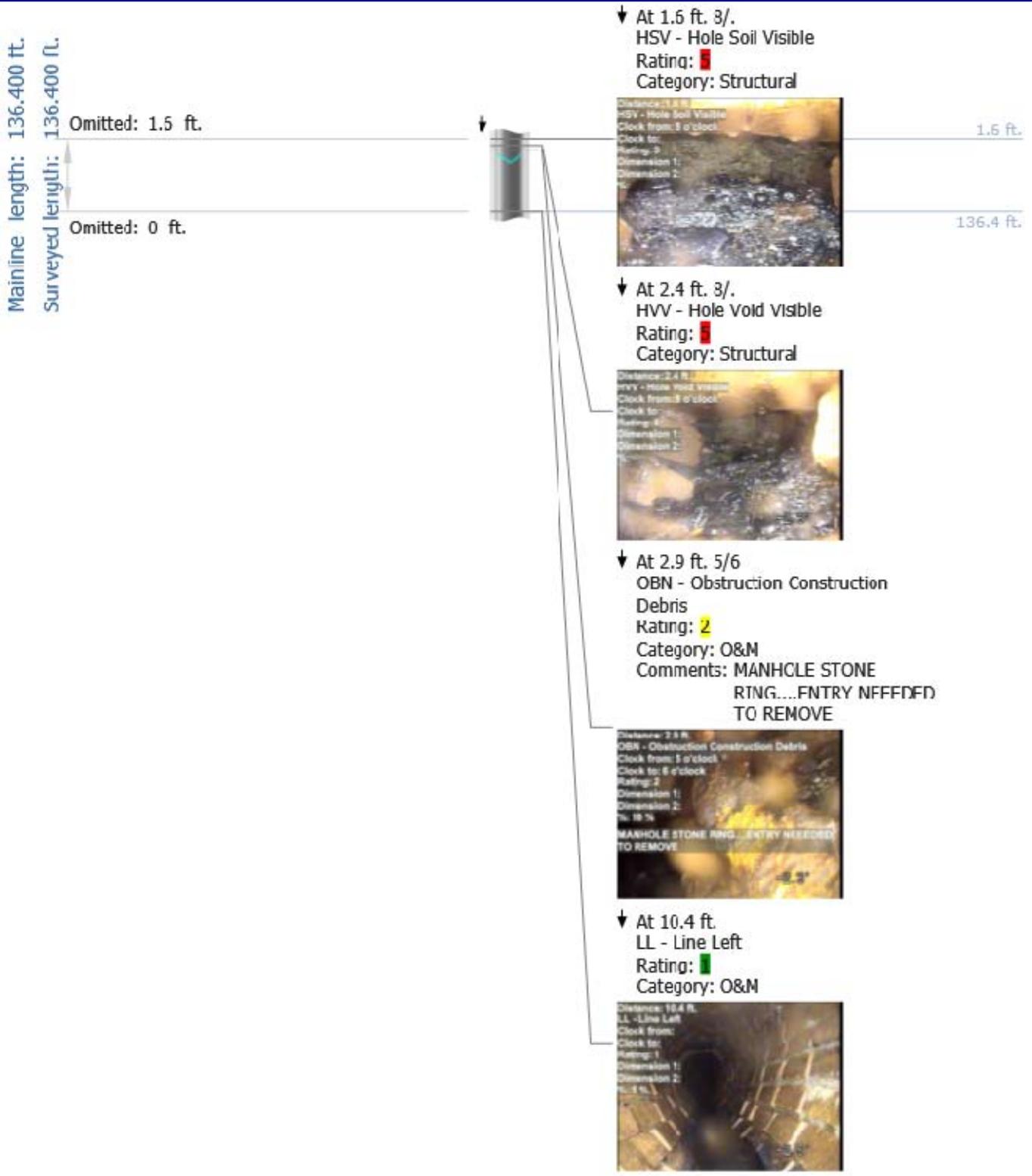
Stopped at 131.0 ft. with flow 
on 9/14/2019 1:31:54 PM 

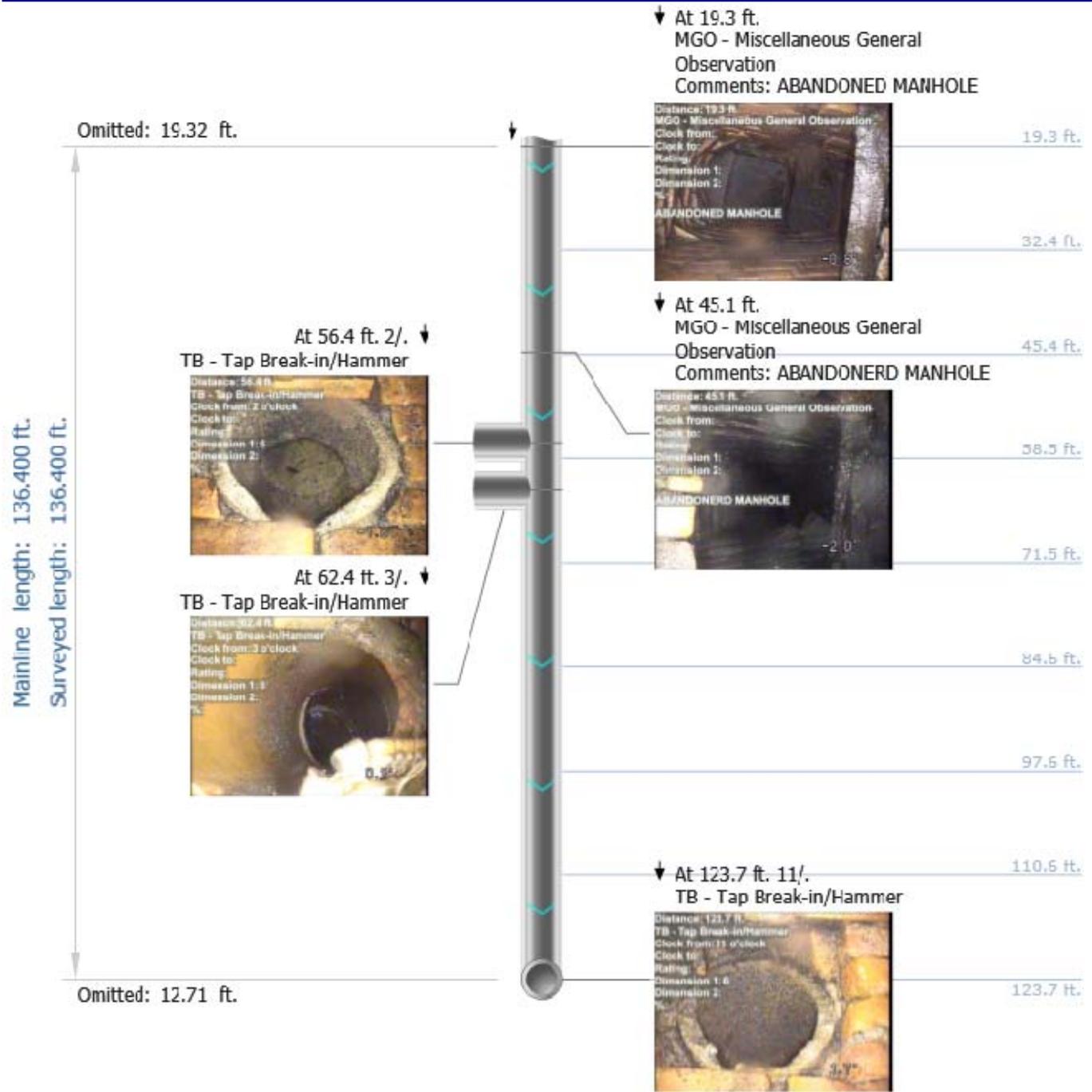
Main Inspections Pipe Run with Images

Project name: WEST05-65	Mainline ID: SM03568	City: WORCESTER	Street: MAIN ST
Start date/time: 20190914-133356	Direction: D	Weather: 1	Location code:
Shape: E	Material: BR	Height: 27 in.	Width: 18 in.

Stopped at -1/9.3 ft. with flow
on 9/14/2019 3:19:01 PM 







Project name:

WEST05-65

Mainline ID:

SM03568

Start date/time:

20190914-133356

Direction:

D

Weather:

1

Mainline length: 136.400 ft.
Surveyed length: 136.400 ft.

Omitted: 136.4 ft.



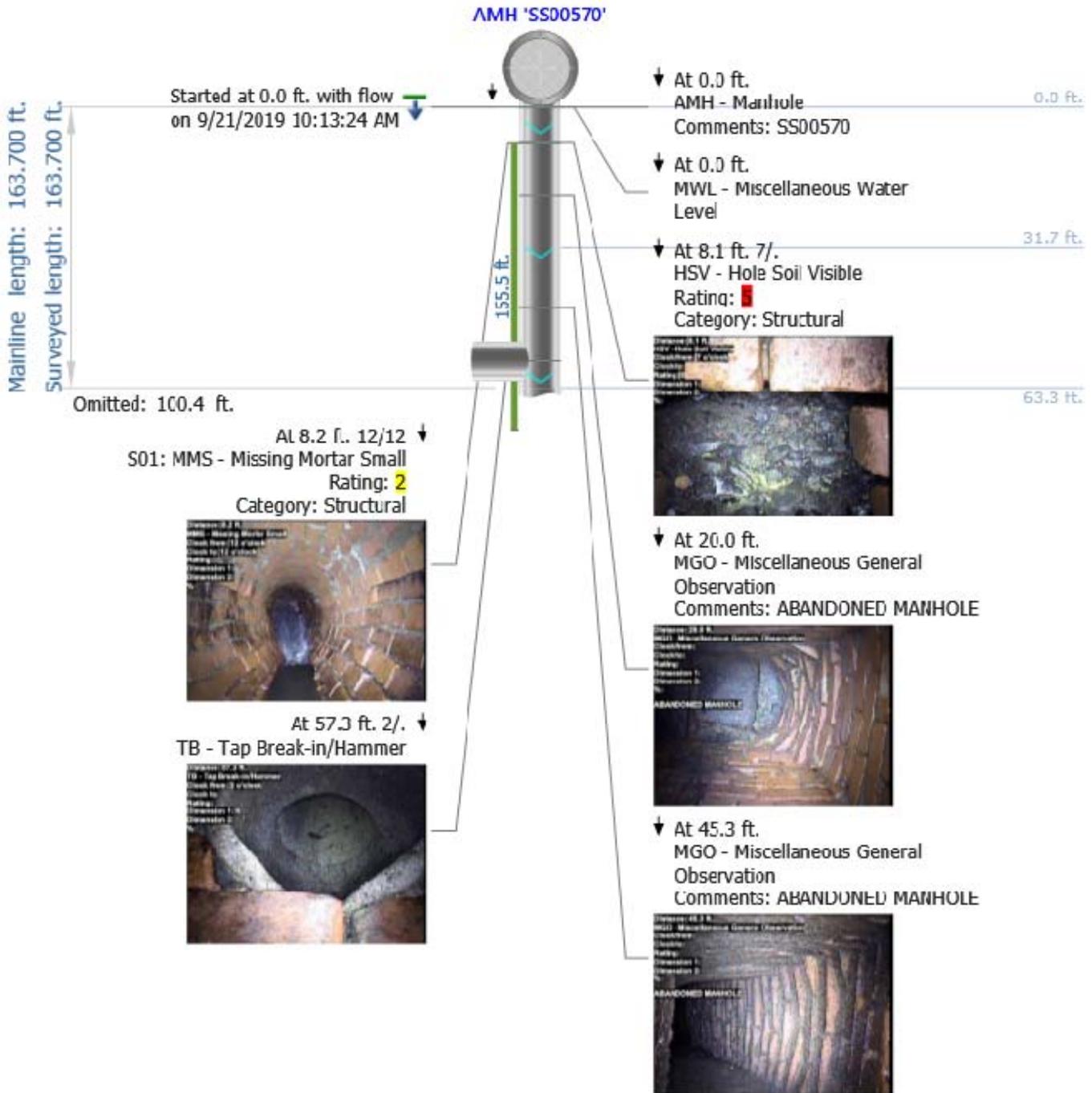
At 136.4 ft.
MSA - Miscellaneous Survey
Abandoned
Category: O&M
Comments: SURVEY ENDS

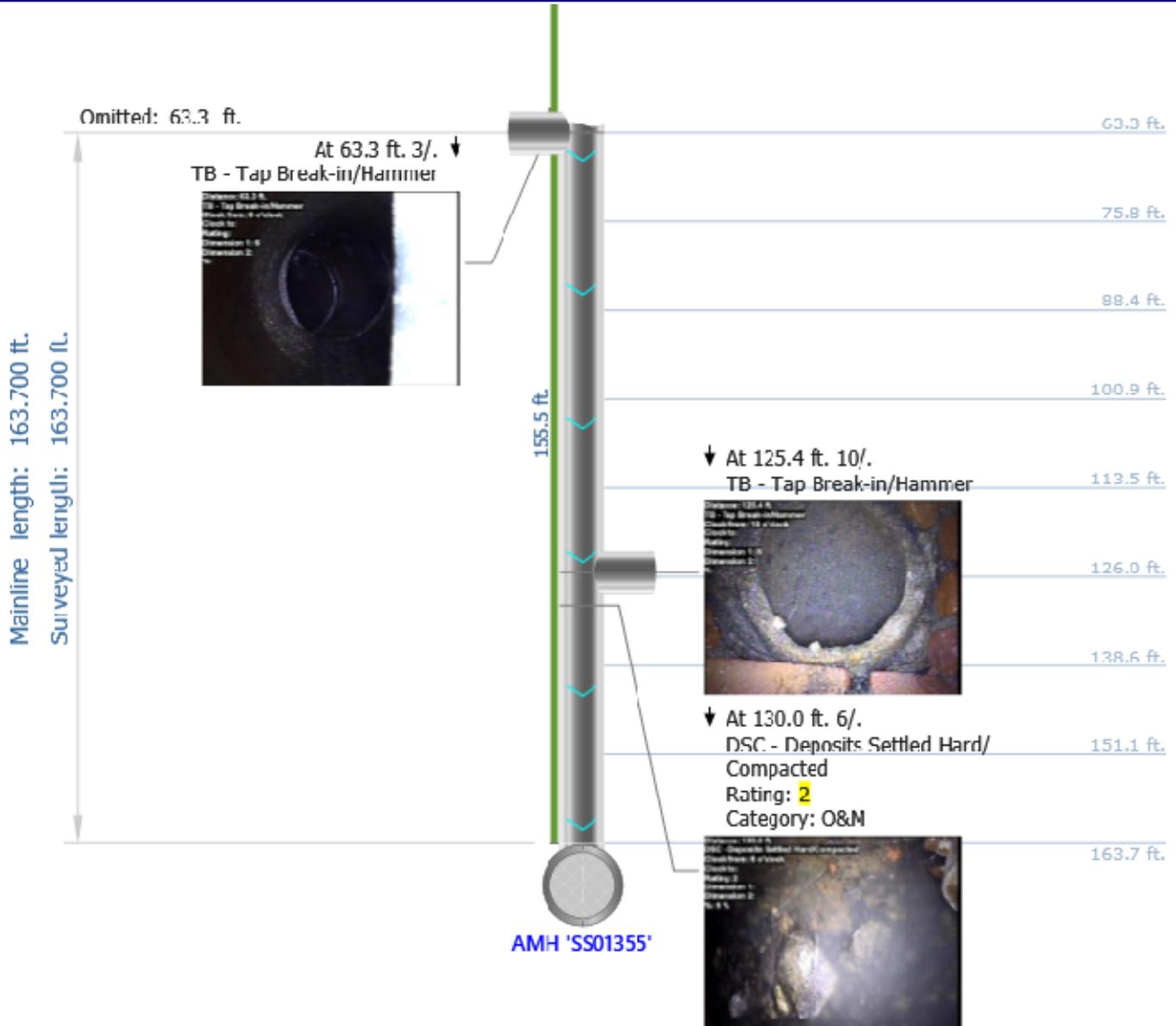


136.4 ft.
136.4 ft.

Main Inspections Pipe Run with Images

Project name: WEST05-65	Mainline ID: SM03568	City: WORCESTER MA	Street: MAIN ST
Start date/time: 20190921-101324	Direction: D	Weather: 1	Location code:
Shape: O	Material: BR	Height: 18 in.	Width: 27 in.





Some observations have distance greater than the pipe length

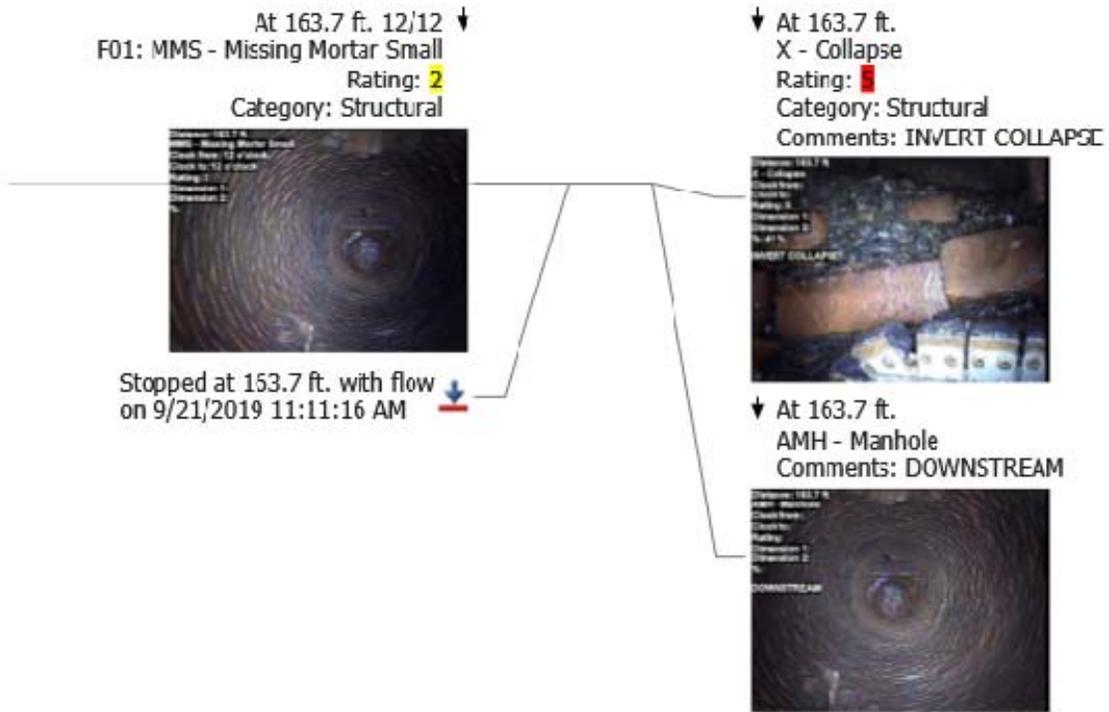
Project name:
WEST05-65

Mainline ID:
SM03568

Start date/time:
20190921-101324

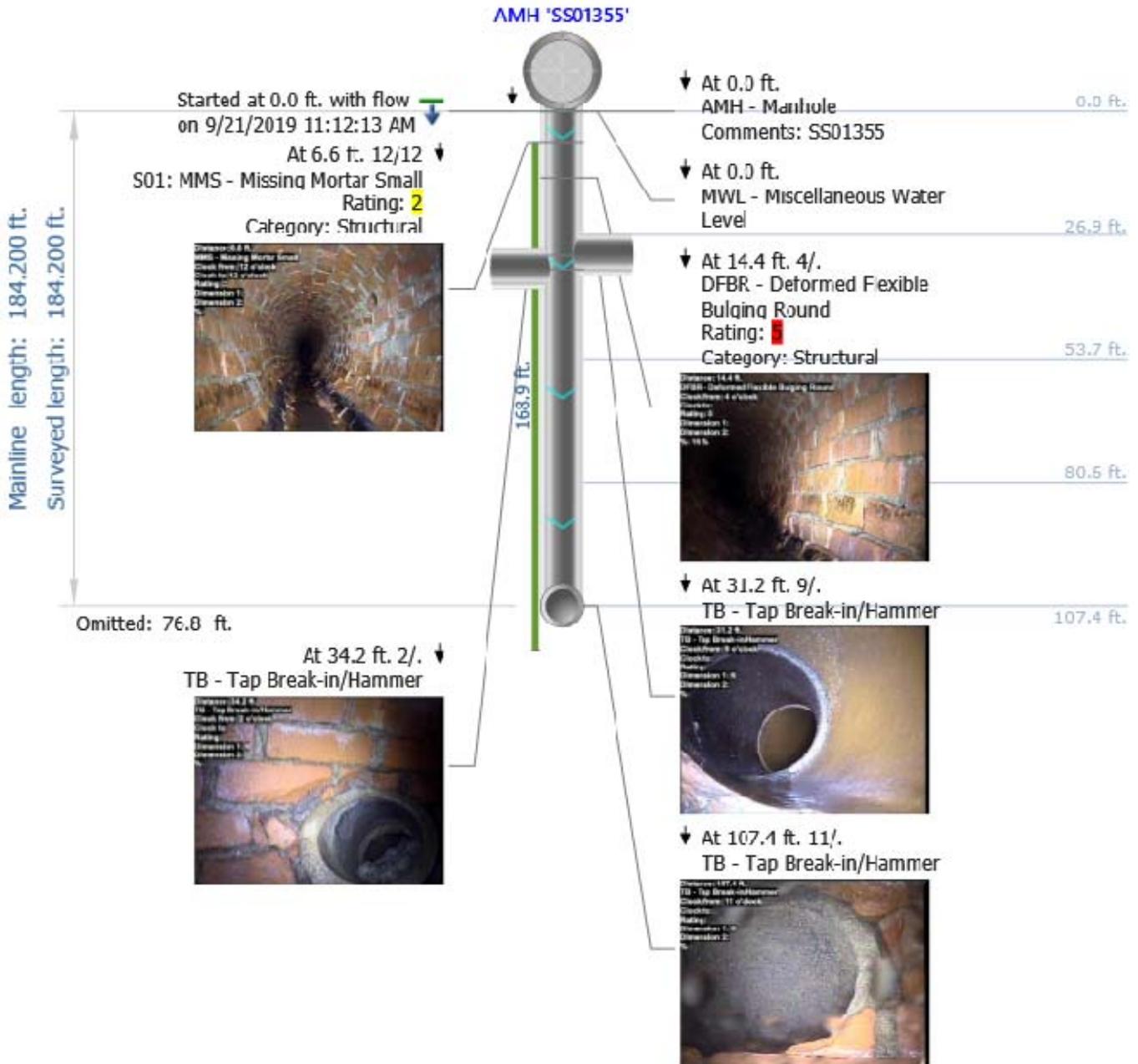
Direction:
D

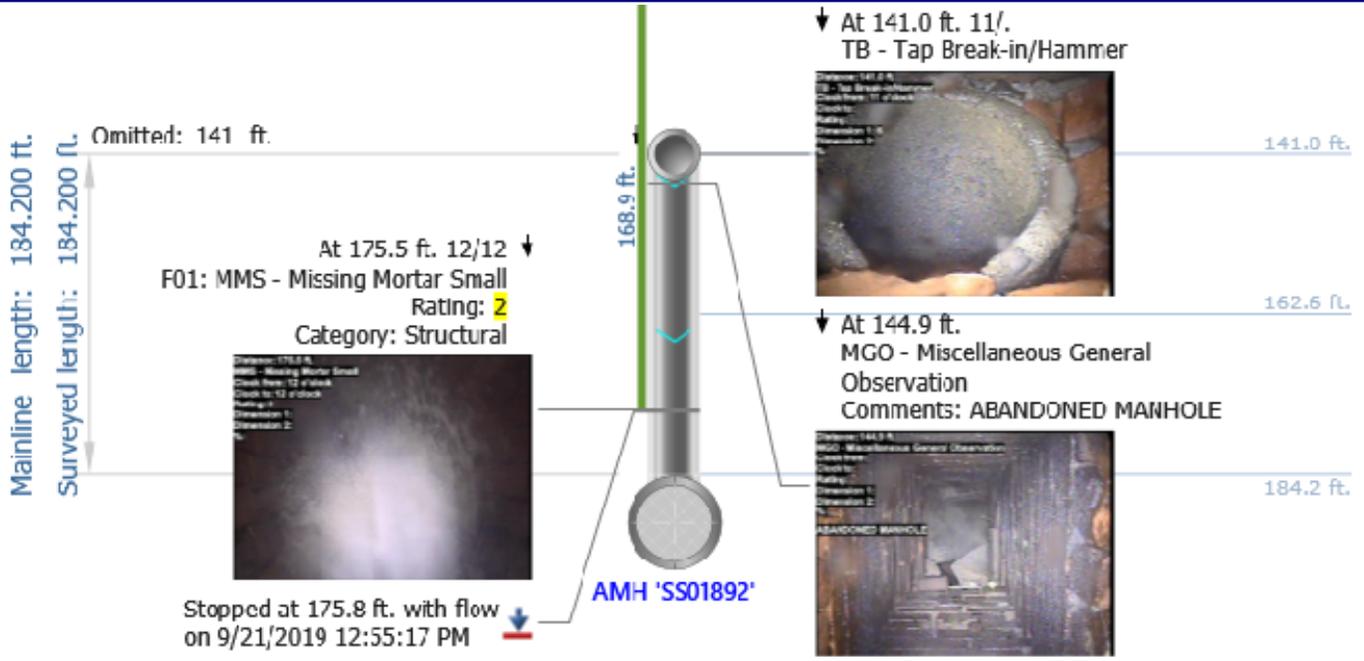
Weather:
1



Main Inspections Pipe Run with Images

Project name: WEST05-65	Mainline ID: SM03567	City: WORCESTER MA	Street: MAIN ST
Start date/time: 20190921-111213	Direction: D	Weather: 1	Location code:
Shape: O	Material: BR	Height: 18 in.	Width: 27 in.





Some observations have distance greater than the pipe length

Project name:

WEST05-65

Mainline ID:

SM03567

Start date/time:

20190921-111213

Direction:

D

Weather:

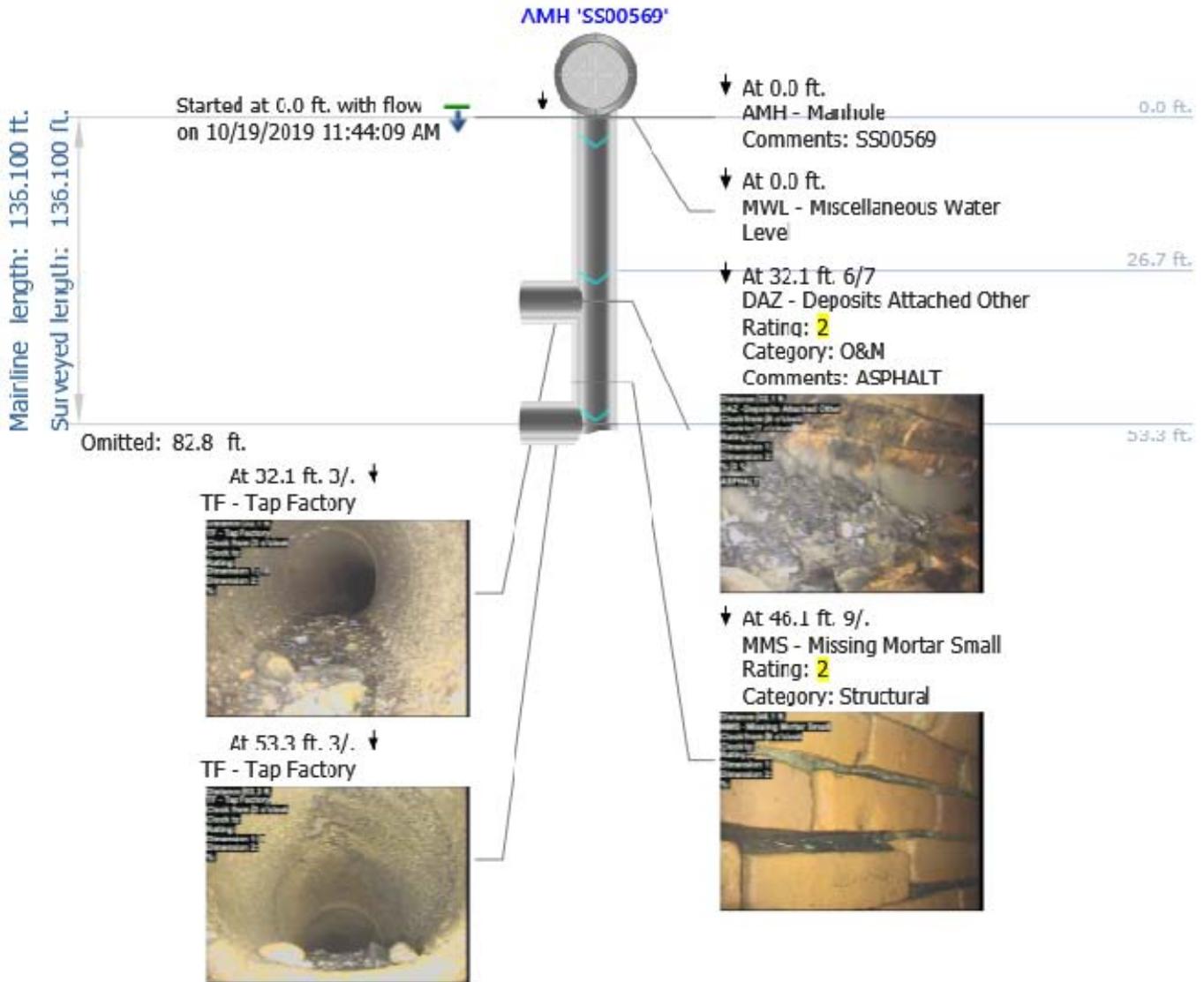
1

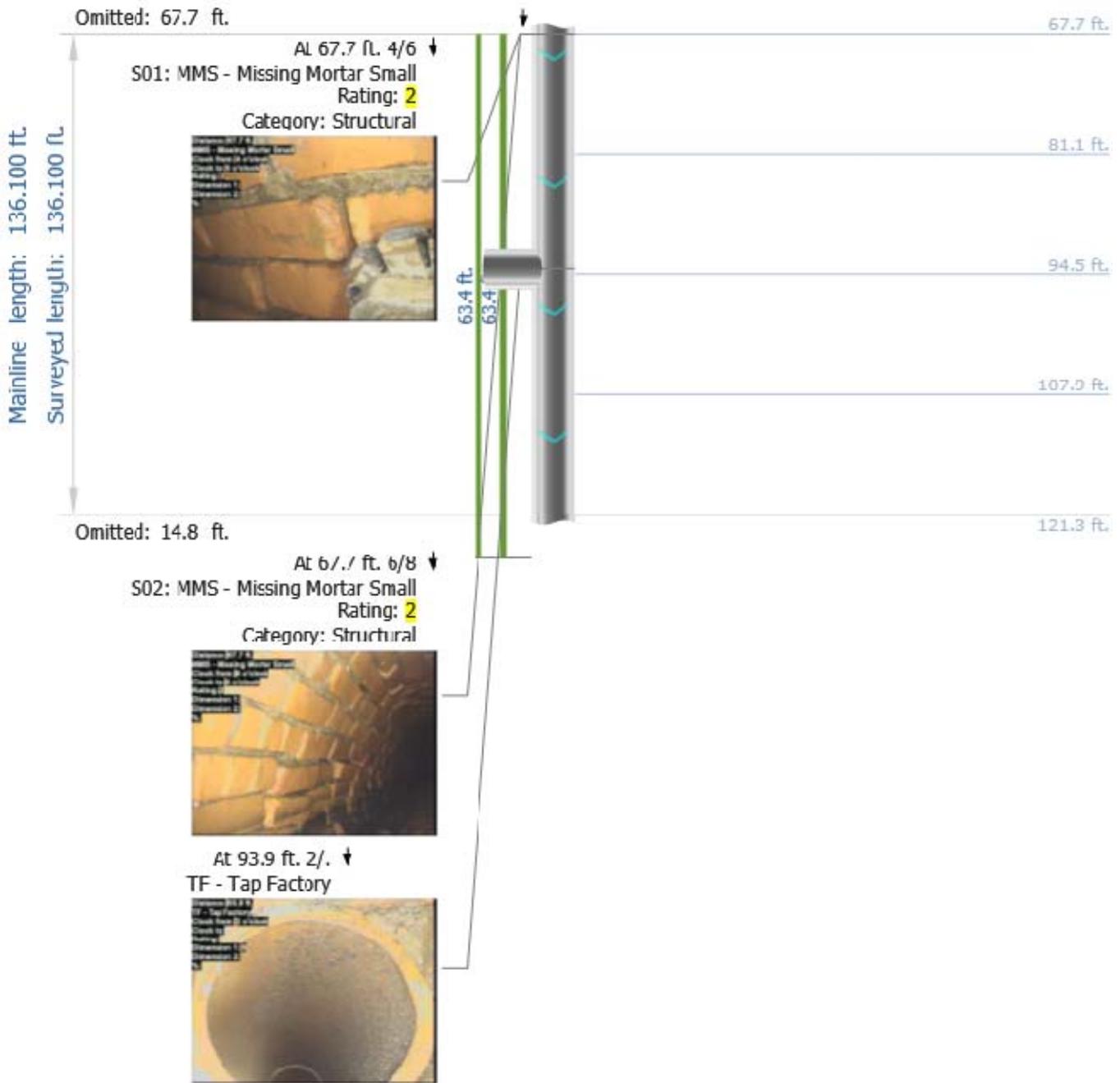
↓ At 184.2 ft.
AMH - Manhole
Comments: DOWNSTREAM

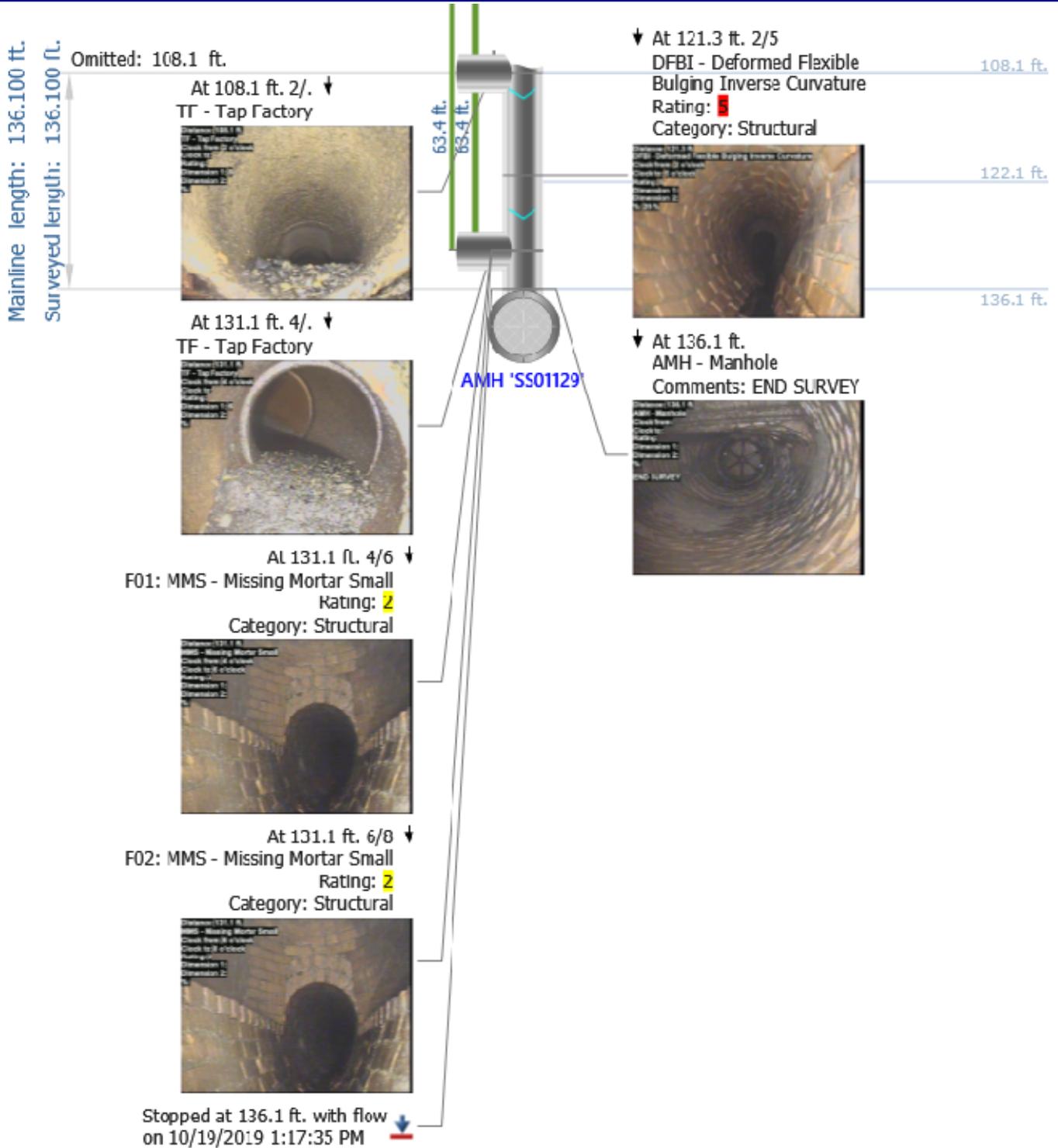


Main Inspections Pipe Run with Images

Project name: WEST05-65	Mainline ID: SM00007	City: WORCESTER	Street: MAIN ST
Start date/time: 20191019-114409	Direction: D	Weather: 1	Location code:
Shape: E	Material: BR	Height: 18 in.	Width: 27 in.

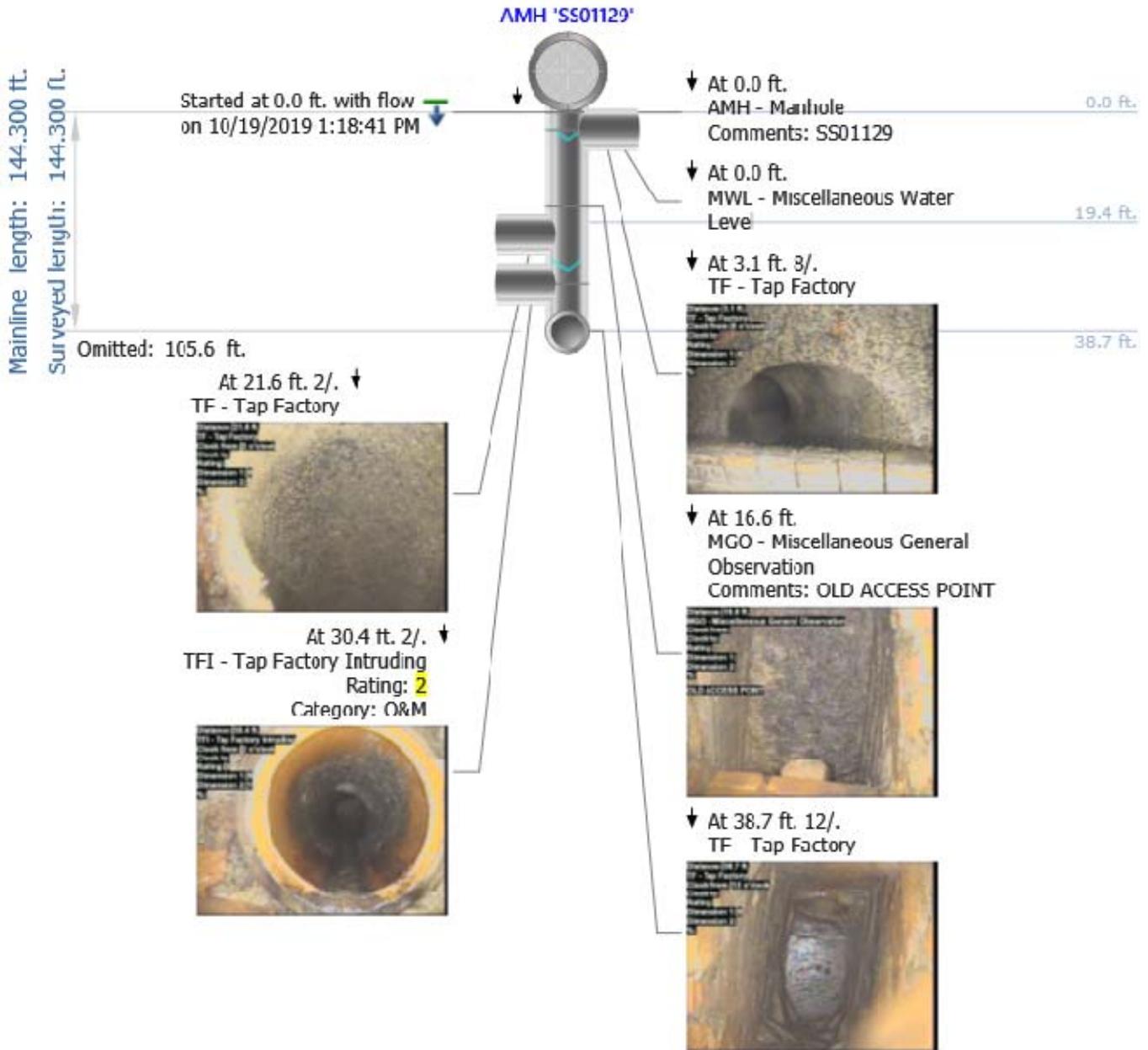


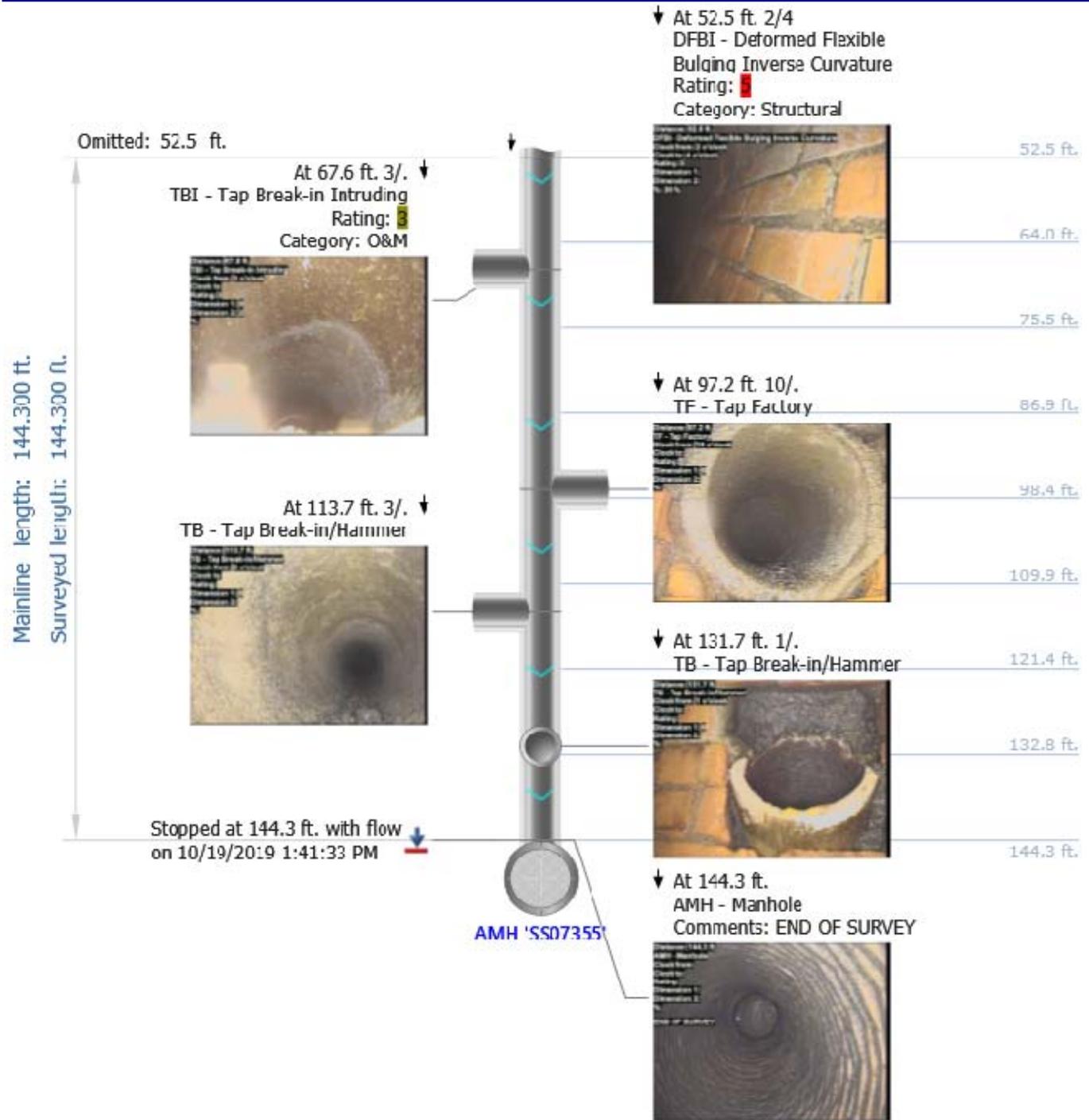




Main Inspections Pipe Run with Images

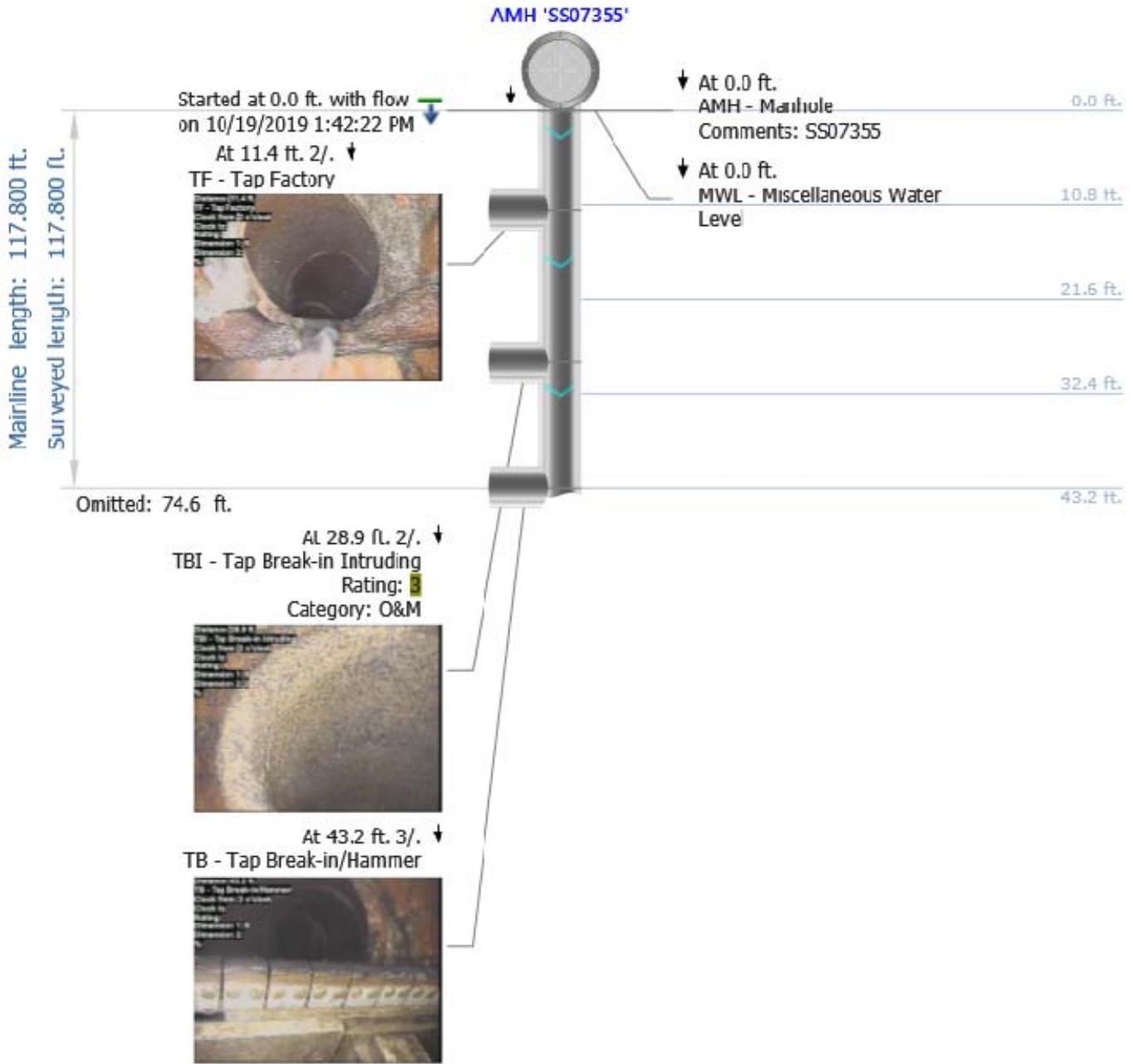
Project name: WEST05-65	Mainline ID: SM00006	City: WORCESTER	Street: MAIN
Start date/time: 20191019-131841	Direction: D	Weather: 1	Location code:
Shape: E	Material: BR	Height: 18 in.	Width: 27 in.

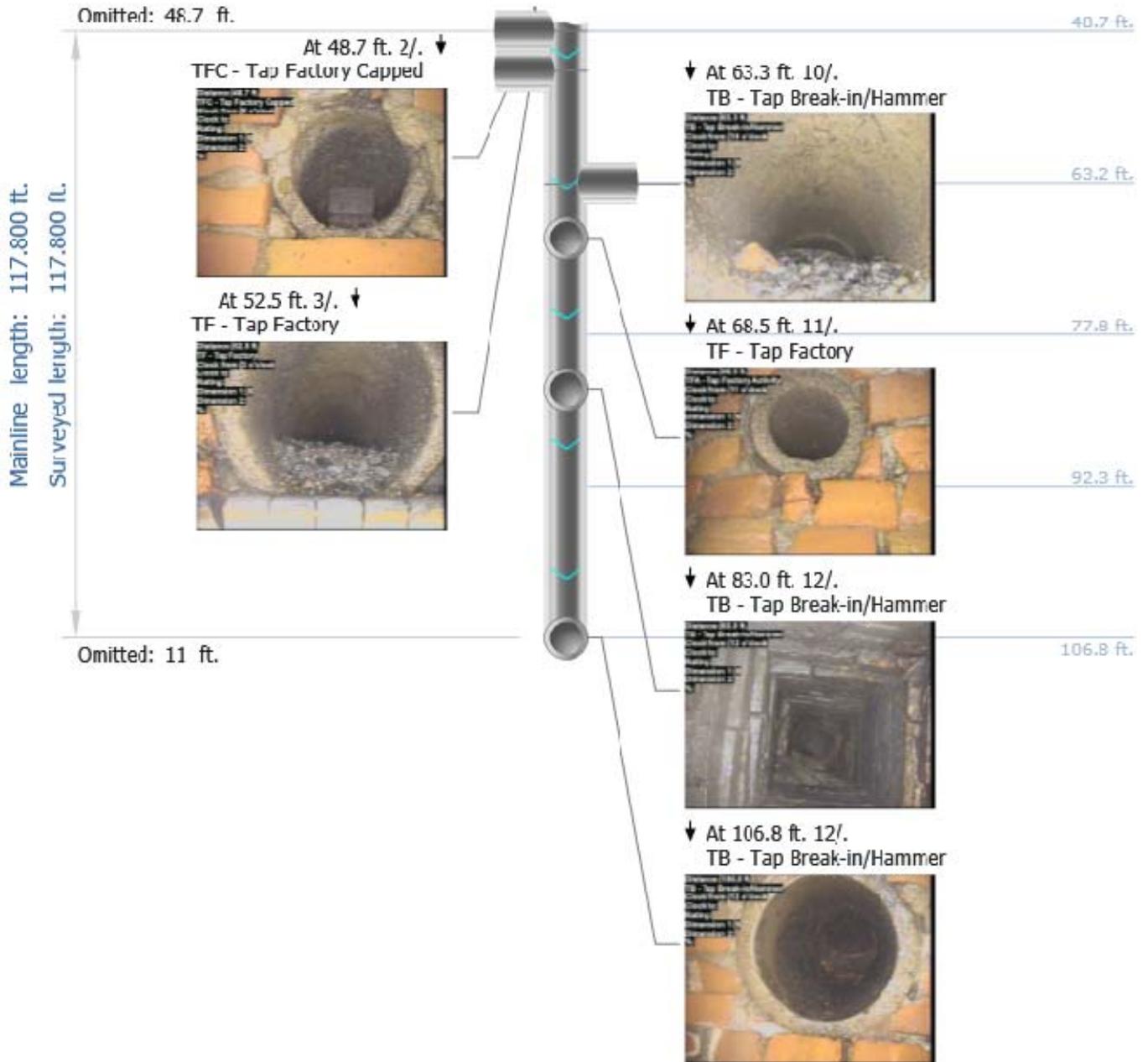




Main Inspections Pipe Run with Images

Project name: WEST05-65	Mainline ID: SM03530	City: WORCESTER	Street: MAIN ST
Start date/time: 20191019-134222	Direction: D	Weather: 1	Location code:
Shape: E	Material: BR	Height: 18 in.	Width: 27 in.





Mainline length: 117.800 ft.
Surveyed length: 117.800 ft.

Omitted: 115.4 ft.

Stopped at 117.8 ft. with flow
on 10/19/2019 2:18:39 PM

AMH 'SS01512'

↓ At 115.4 ft.
MMC - Miscellaneous Material
Change
Comments: RCP



115.4 ft.

117.8 ft.

↓ At 115.4 ft.
MSC - Miscellaneous Shape/Size
Change

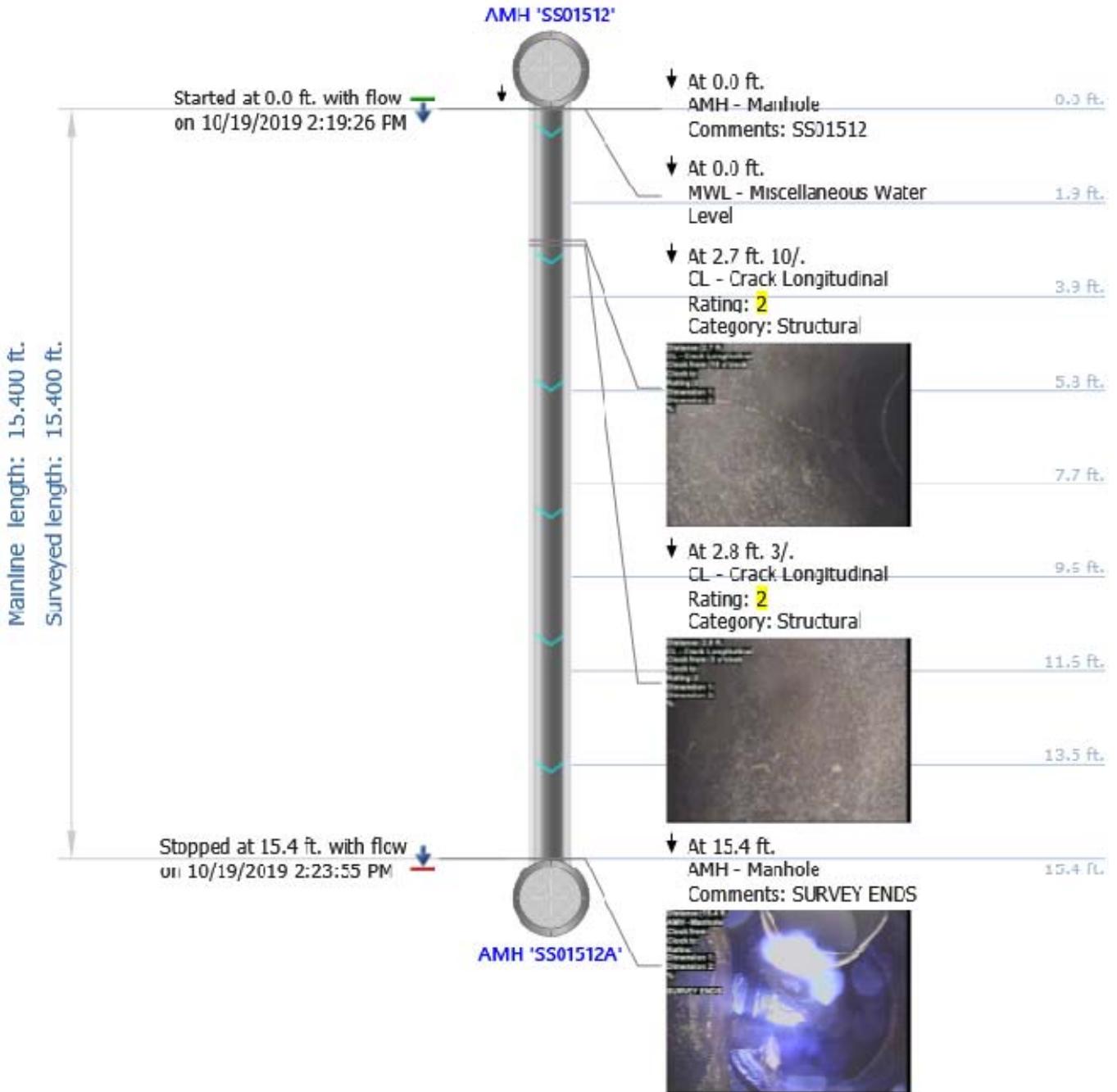


↓ At 117.8 ft.
AMH - Manhole
Comments: END OF SURVEY



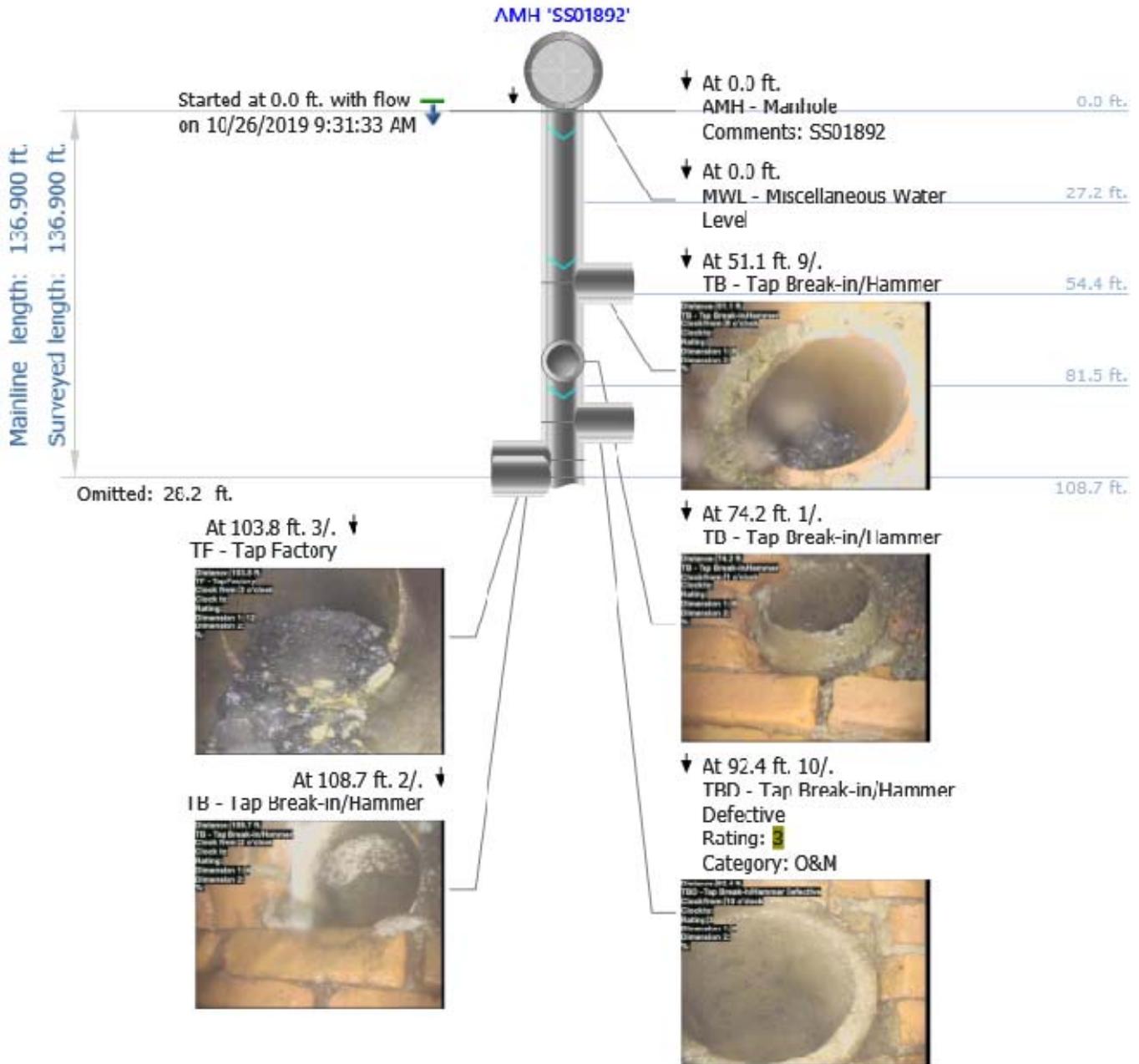
Main Inspections Pipe Run with Images

Project name: WEST05-65	Mainline ID: SM03530A	City: WORCESTER	Street: MAIN ST
Start date/time: 20191019-141926	Direction: D	Weather: 1	Location code:
Shape: C	Material: RCP	Height: 24 in.	Width:



Main Inspections Pipe Run with Images

Project name: WEST05-65	Mainline ID: SM03566	City: WORCESTER MA	Street: SOUTHBRIDGE
Start date/time: 20191026-093133	Direction: D	Weather: 1	Location code:
Shape: E	Material: BR	Height: 20 in.	Width: 30 in.



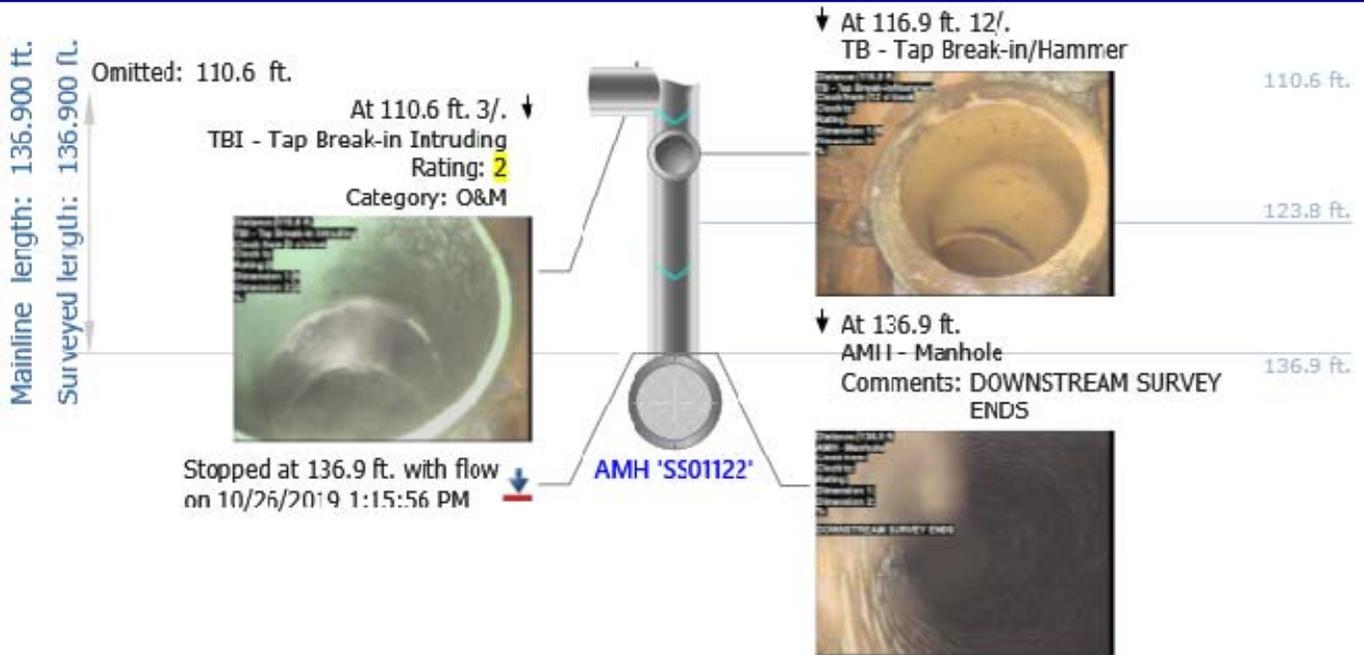
Project name:
WEST05-65

Mainline ID:
SM03566

Start date/time:
20191026-093133

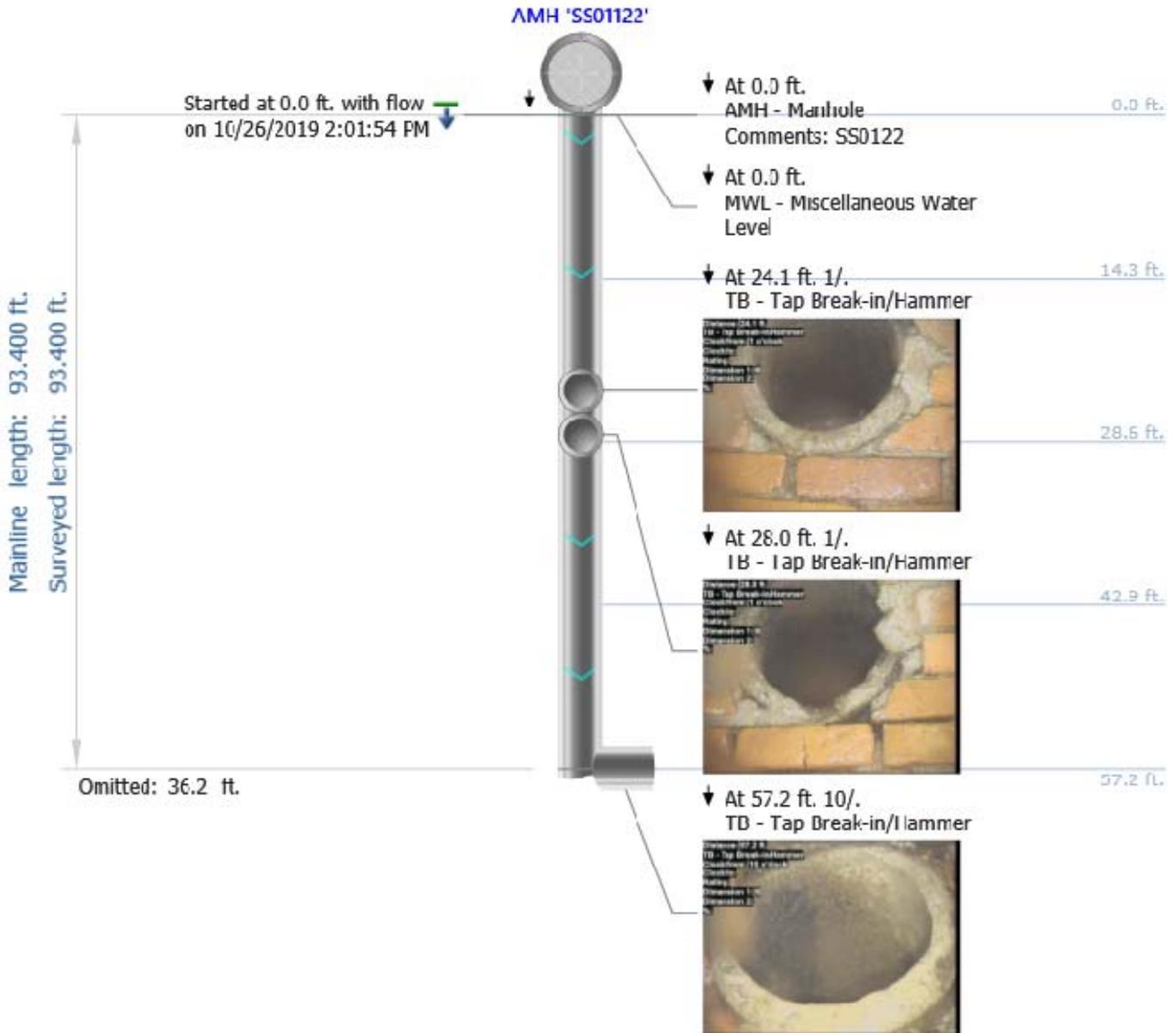
Direction:
D

Weather:
1



Main Inspections Pipe Run with Images

Project name: WEST05-65	Mainline ID: SM03565	City: WORCESTER MA	Street: SOUTHBRIDGE
Start date/time: 20191026-140154	Direction: D	Weather: 1	Location code:
Shape: O	Material: BR	Height: 20 in.	Width: 30 in.



Project name:

WEST05-65

Mainline ID:

SM03565

Start date/time:

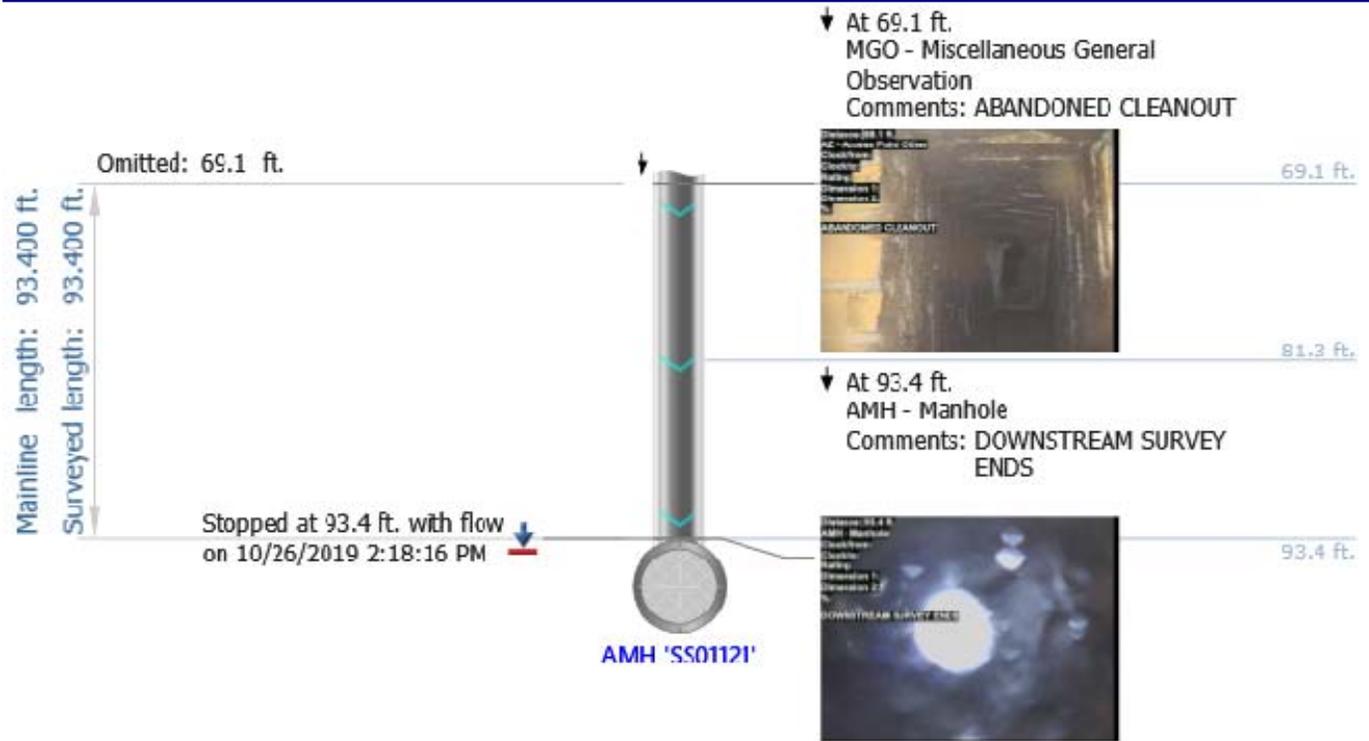
20191026-140154

Direction:

D

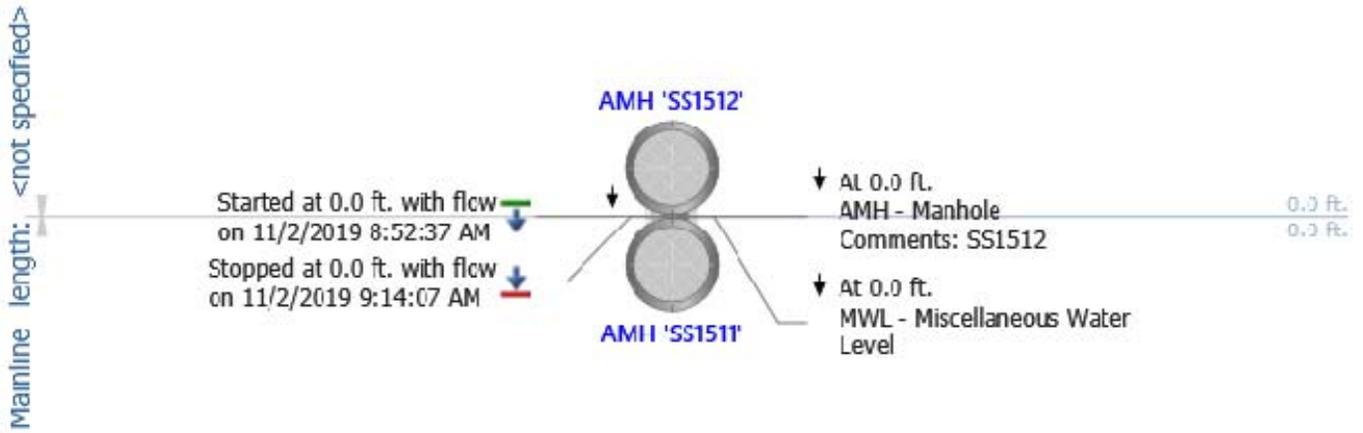
Weather:

1



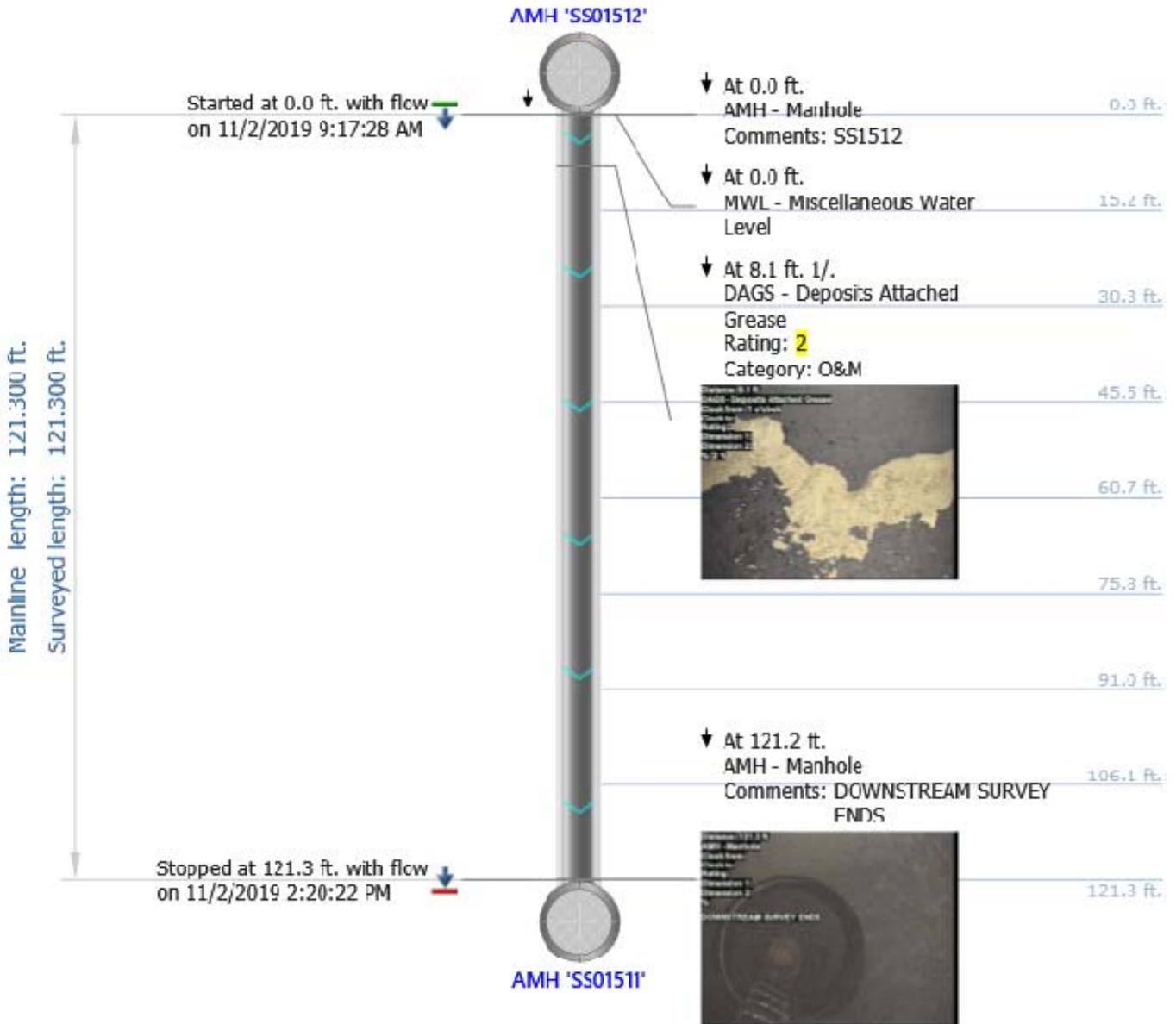
Main Inspections Pipe Run with Images

Project name: WEST05-65	Mainline ID: SM03529	City:	Street:
Start date/time: 20191102-085237	Direction: D	Weather: 1	Location code:
Shape:	Material:	Height:	Width:



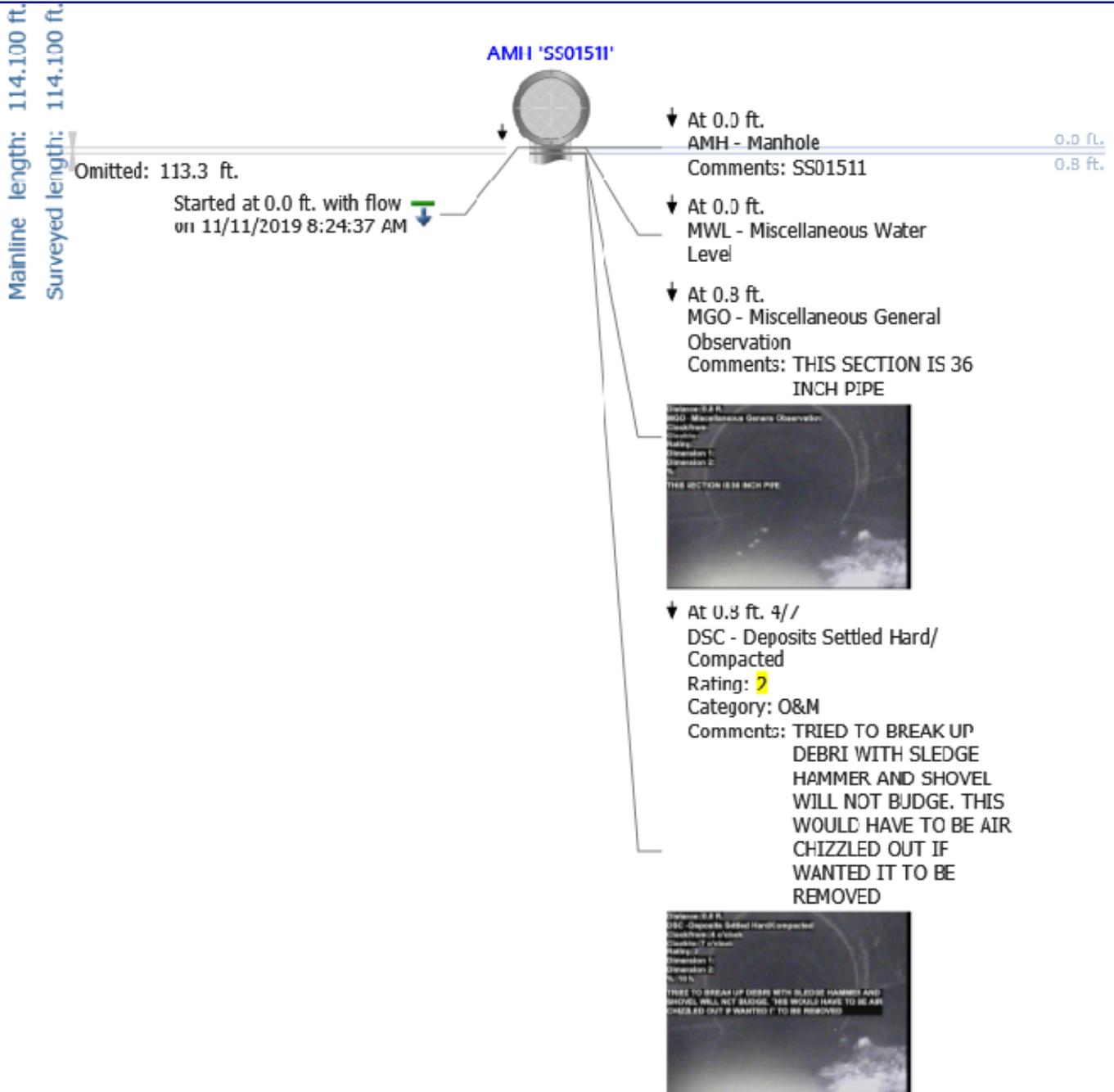
Main Inspections Pipe Run with Images

Project name: WEST05-65	Mainline ID: SM03529	City: WORCESTER MA	Street: MAIN ST
Start date/time: 20191102-091728	Direction: D	Weather: 1	Location code:
Shape: C	Material: RCP	Height: 30 in.	Width:



Main Inspections Pipe Run with Images

Project name: WEST05-65	Mainline ID: SM03531	City: WORCESTER MA	Street: MYRTLE ST
Start date/time: 20191111-082437	Direction: D	Weather: 3	Location code: A
Shape: C	Material: RCP	Height: 36 in.	Width:



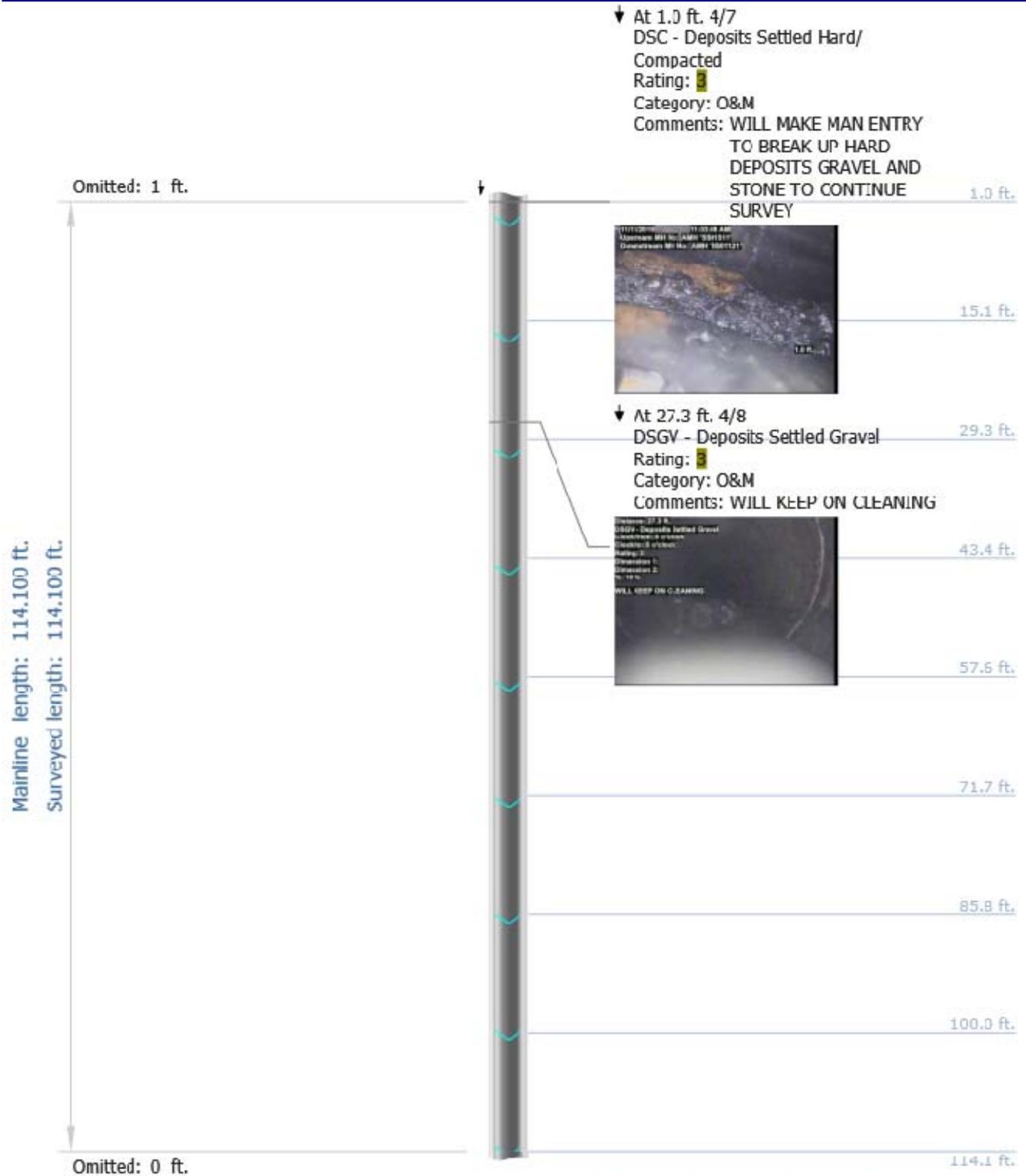
Project name:
WEST05-65

Mainline ID:
SM03531

Start date/time:
20191111-082437

Direction:
D

Weather:
3



Project name:
WEST05-65

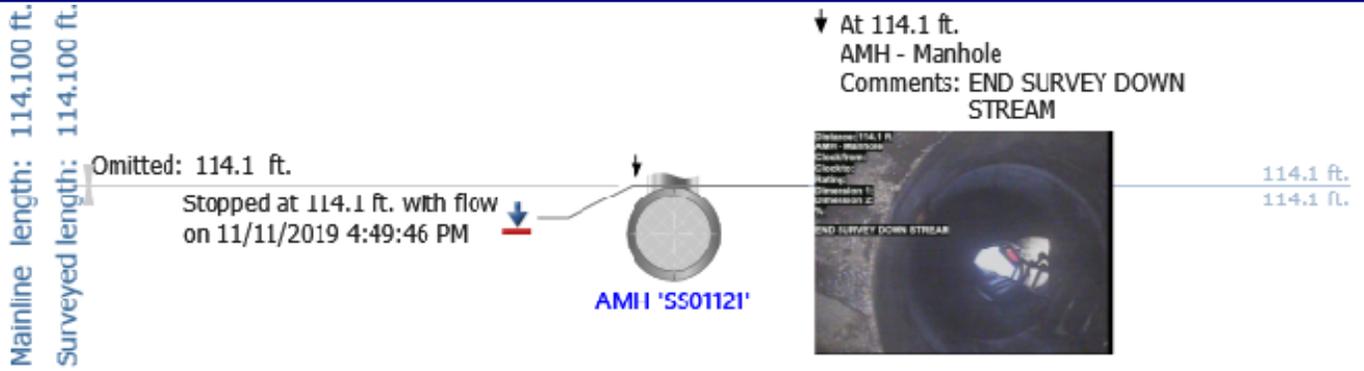
Mainline ID:
SM03531

Start date/time:
20191111-082437

Direction:
D

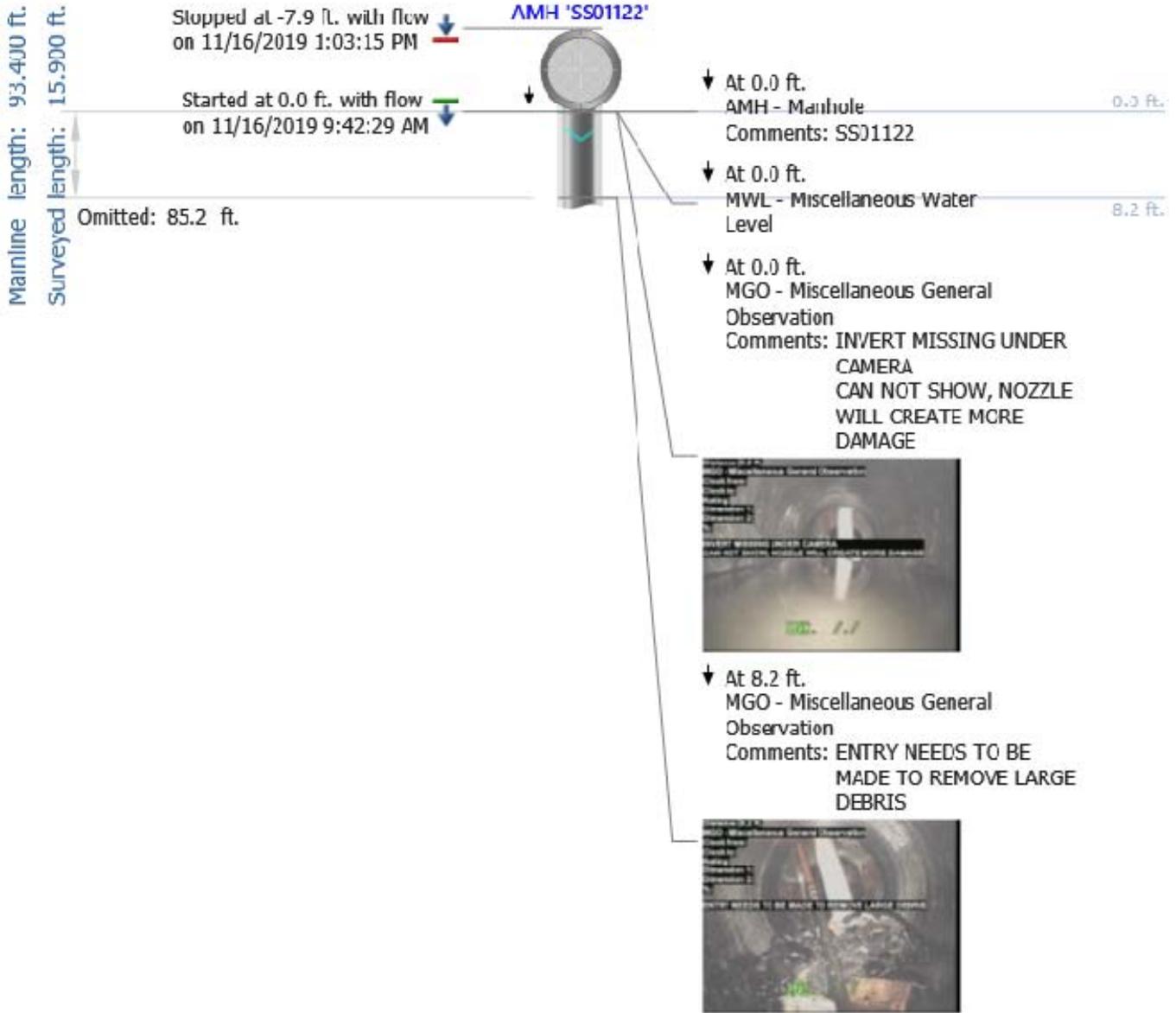
Weather:

3



Main Inspections Pipe Run with Images

Project name: WEST05-65	Mainline ID: SM03565	City: WORCESTER MA	Street: SOUTHBRIDGE
Start date/time: 20191116-094229	Direction: D	Weather: 1	Location code:
Shape: C	Material: RCP	Height: 36 in.	Width:



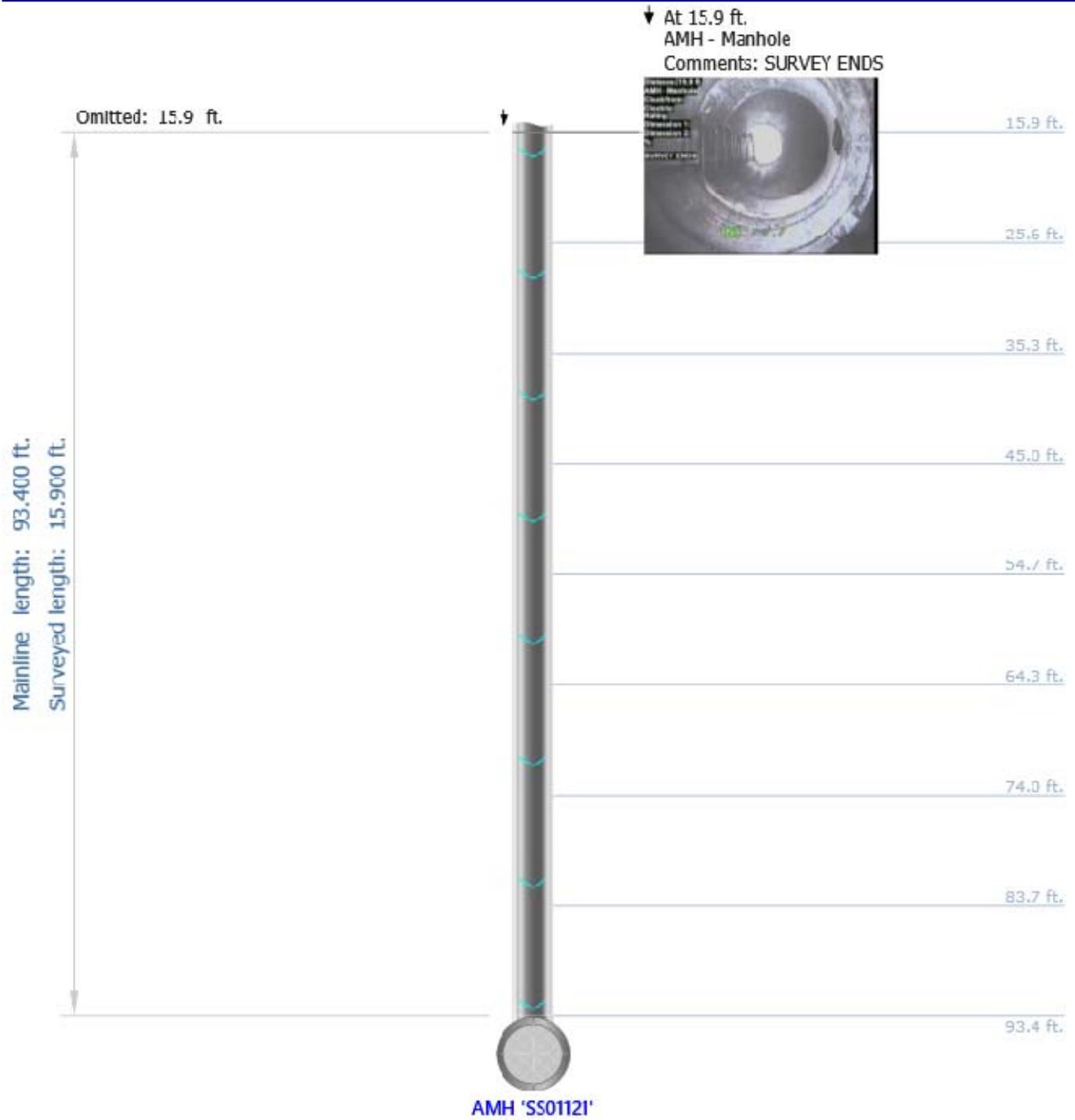
Project name:
WEST05-65

Mainline ID:
SM03565

Start date/time:
20191116-094229

Direction:
D

Weather:
1





NWMCC INSPECTION REPORT

PACP Rating Description

<p><u>1:</u> Excellent Condition</p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u> Good Condition</p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u> Fair Condition</p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u> Poor Condition</p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u> Immediate Attention</p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

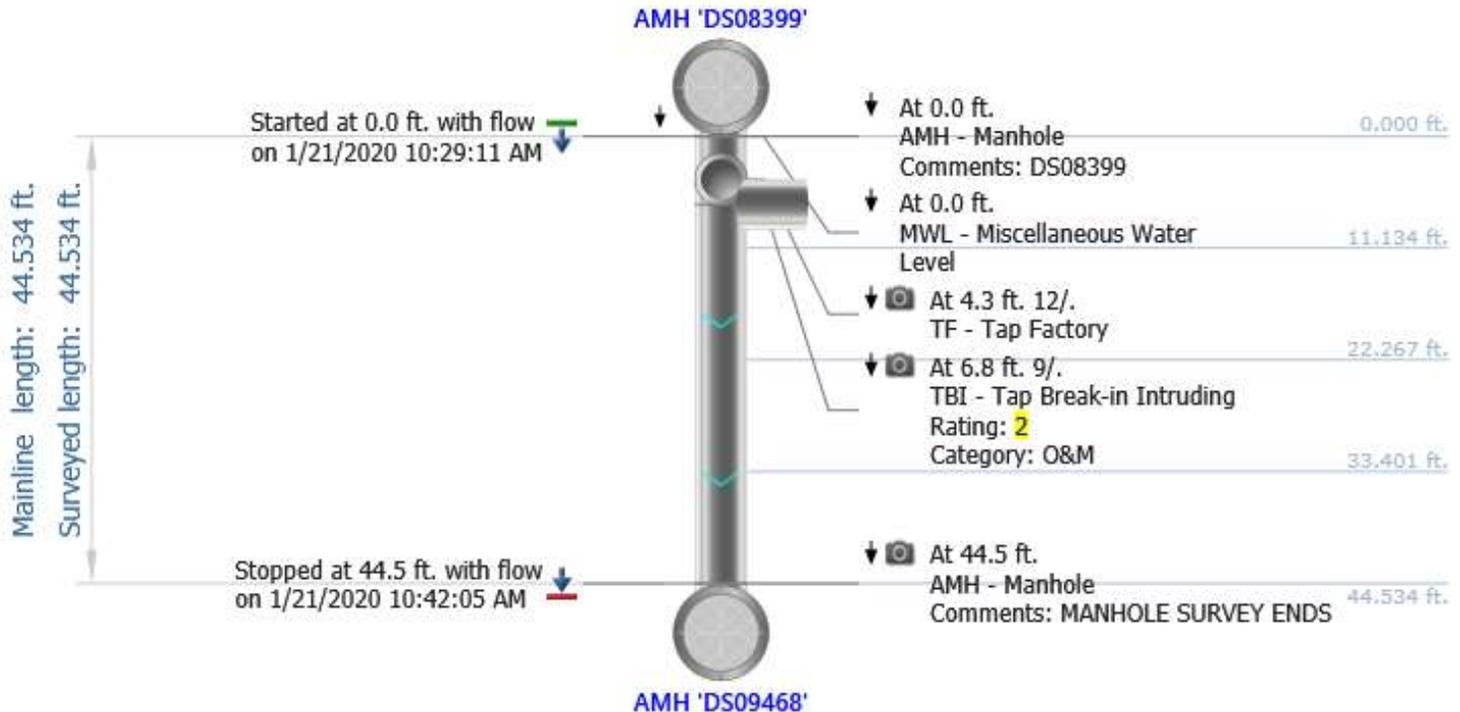


NWMCC INSPECTION REPORT

Start date/time: 20200121 10:29	Weather: Dry - No precipitation during survey	Surveyed by: K.KEAGLE	Certificate number: 123	Pipe segment ref.: DL02961
Owner:	Customer:	Pre-cleaning: Heavy Cleaning	Date cleaned:	Project name: WEST05-65
City: WORCESTER MA	Street: MAIN ST	Location code:	Pipe use: Stormwater Pipe	Drainage area: Not Controlled
Upstream MH No: DS08399	Downstream MH No: DS09468	Direction: D	Total length: 44.534 ft.	Length surveyed: 44.534 ft.
Purpose:	Pipe joint length:	Height: 25 in.	Material: Brick	LateralsCounter:
Additional info: 				

Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	2	2100	2.0	2	2.0	2.1	
2	0	0				0	2							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							



NWMCC INSPECTION REPORT

Inspection Photos

City: WORCESTER MA	Street: MAIN ST	Start date/time: 20200121 10:29	Pipe segment ref.: DL02961
------------------------------	---------------------------	---	--------------------------------------



Photo: DS08399-DS09468-20200121-102911-103034.JPG
At: 4.303 ft. 12/. TF - Tap Factory
Joint: No



Photo: DS08399-DS09468-20200121-102911-103057.JPG
At: 6.805 ft. 9/. TBI - Tap Break-in Intruding
Joint: No



Photo: DS08399-DS09468-20200121-102911-103858.JPG
At: 44.534 ft. AMH - Manhole
Joint: No MANHOLE SURVEY ENDS



NWMCC INSPECTION REPORT

PACP Rating Description

<p><u>1:</u> Excellent Condition</p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u> Good Condition</p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u> Fair Condition</p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u> Poor Condition</p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u> Immediate Attention</p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

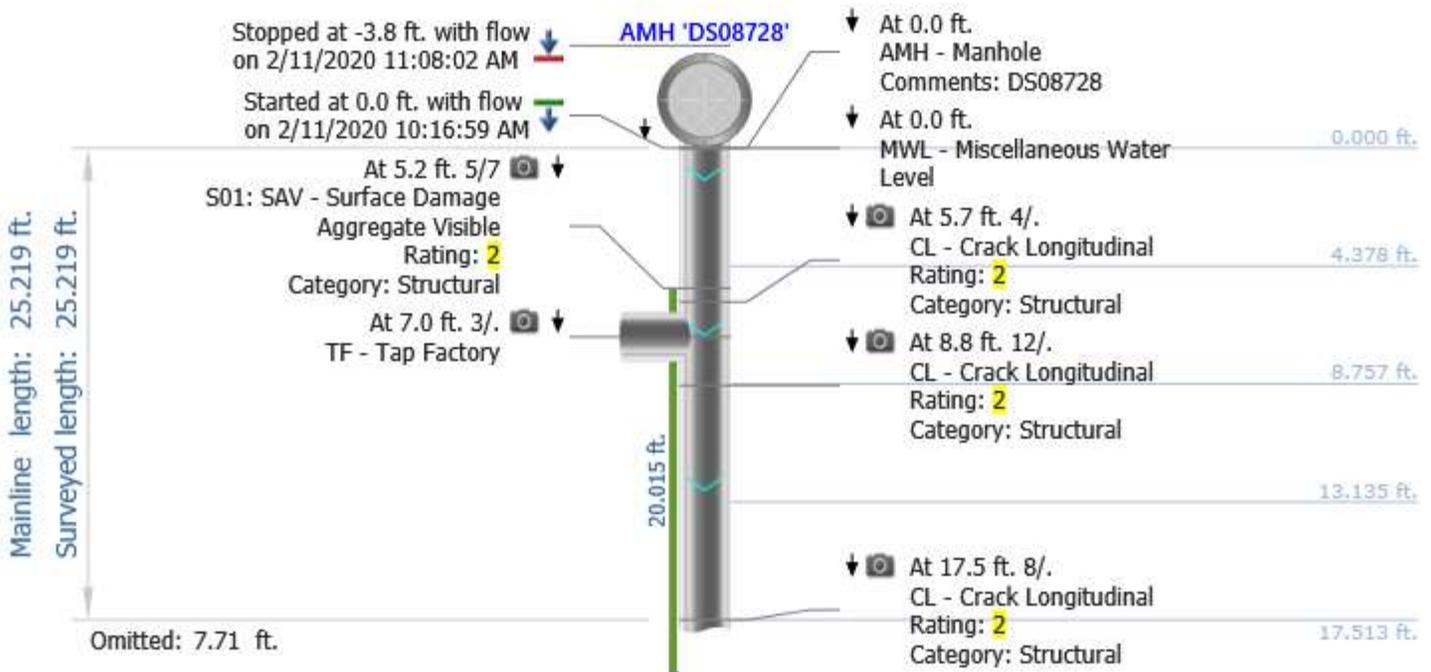


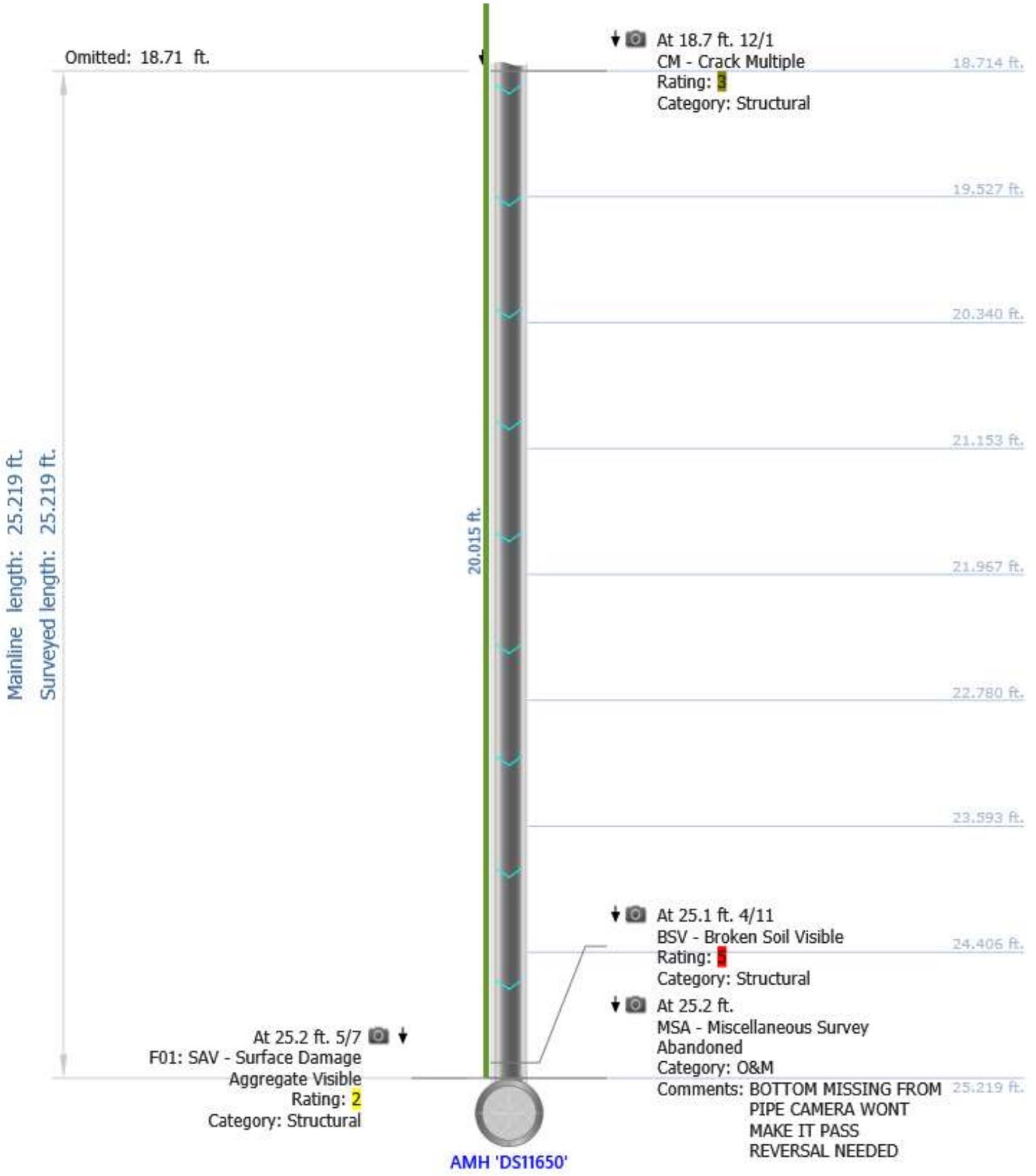
NWMCC INSPECTION REPORT

Start date/time: 20200211 10:16	Weather: Dry - No precipitation during survey	Surveyed by: B. DEGROATE	Certificate number: 07007097	Pipe segment ref.: DL01076
Owner:	Customer:	Pre-cleaning: No Pre-Cleaning	Date cleaned:	Project name: WEST05-65
City: WORCESTER	Street: MAPLE ST	Location code:	Pipe use: Stormwater Pipe	Drainage area: Flow control:
Upstream MH No: DS08728	Downstream MH No: DS11650	Direction: D	Total length: 25.219 ft.	Length surveyed: 25.219 ft.
Purpose:	Pipe joint length:	Height: 15 in.	Material: Reinforced Concrete Pipe	LateralsCounter: Additional info:

Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	22	5131	2.4	0	0	0	0000	0.0	22	2.4	5.1	
2	0	14				0	0							
3	0	3				0	0							
4	0	0				0	0							
5	0	5				0	0							





NWMCC INSPECTION REPORT

Inspection Photos

City: WORCESTER	Street: MAPLE ST	Start date/time: 20200211 10:16	Pipe segment ref.: DL01076
---------------------------	----------------------------	---	--------------------------------------

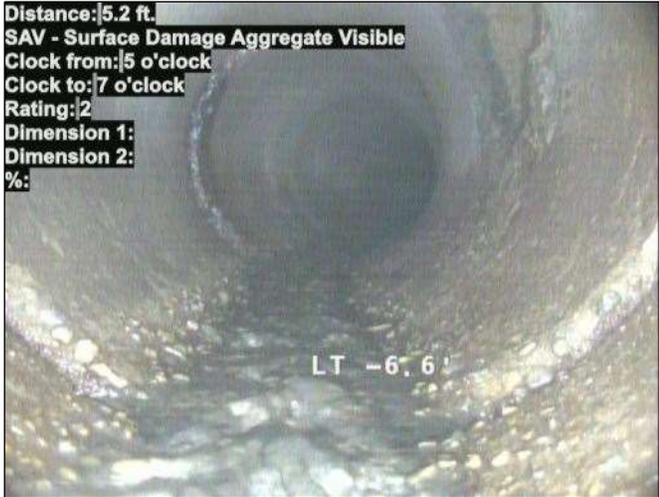


Photo: DS08728-DS11650-20200211-101659-101937.JPG
At: 5.204 ft. 5/7 SAV - Surface Damage Aggregate Visible
Joint: Yes



Photo: DS08728-DS11650-20200211-101659-102006.JPG
At: 5.704 ft. 4/. CL - Crack Longitudinal
Joint: Yes



Photo: DS08728-DS11650-20200211-101659-102027.JPG
At: 7.005 ft. 3/. TF - Tap Factory
Joint: No



Photo: DS08728-DS11650-20200211-101659-102141.JPG
At: 8.807 ft. 12/. CL - Crack Longitudinal
Joint: Yes



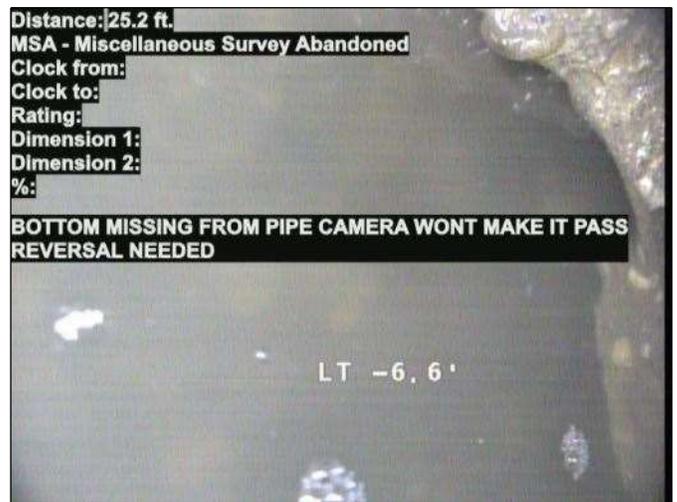
Distance: 17.5 ft.
CL - Crack Longitudinal
Clock from: 8 o'clock
Clock to:
Rating: 2
Dimension 1:
Dimension 2:
%:
Photo: DS08728-DS11650-20200211-101659-102305.JPG
At: 17.513 ft. 8/. CL - Crack Longitudinal
Joint: Yes



Distance: 18.7 ft.
CM - Crack Multiple
Clock from: 12 o'clock
Clock to: 1 o'clock
Rating: 3
Dimension 1:
Dimension 2:
%:
Photo: DS08728-DS11650-20200211-101659-102340.JPG
At: 18.714 ft. CM - Crack Multiple
12/1
Joint: Yes



Distance: 25.1 ft.
BSV - Broken Soil Visible
Clock from: 4 o'clock
Clock to: 11 o'clock
Rating: 5
Dimension 1:
Dimension 2:
%:
Photo: DS08728-DS11650-20200211-101659-102633.JPG
At: 25.119 ft. BSV - Broken Soil Visible
4/11
Joint: Yes



Distance: 25.2 ft.
MSA - Miscellaneous Survey Abandoned
Clock from:
Clock to:
Rating:
Dimension 1:
Dimension 2:
%:
Photo: DS08728-DS11650-20200211-101659-102813.JPG
At: 25.219 ft. MSA - Miscellaneous Survey Abandoned
Joint: No
BOTTOM MISSING FROM PIPE CAMERA
WONT MAKE IT PASS
REVERSAL NEEDED



Distance: 25.2 ft.
SAV - Surface Damage Aggregate Visible
Clock from: 5 o'clock
Clock to: 7 o'clock
Rating: 2
Dimension 1:
Dimension 2:
%:
Photo: DS08728-DS11650-20200211-101659-102807.JPG
At: 25.219 ft. SAV - Surface Damage Aggregate Visible
5/7
Joint: Yes



NWMCC INSPECTION REPORT

PACP Rating Description

<p><u>1:</u> Excellent Condition</p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u> Good Condition</p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u> Fair Condition</p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u> Poor Condition</p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u> Immediate Attention</p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>



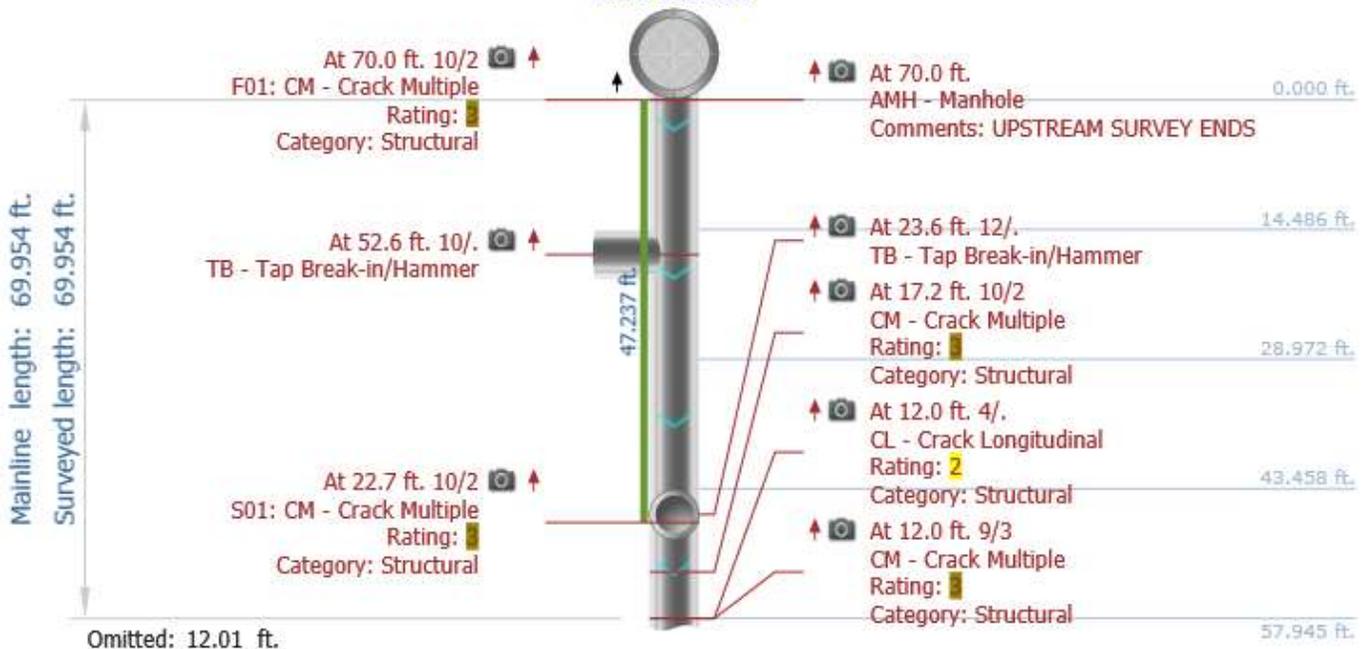
NWMCC INSPECTION REPORT

Start date/time: 20200124 10:32	Weather: Dry - No precipitation during survey	Surveyed by: K.KEAGLE	Certificate number: 123	Pipe segment ref.: DL01219
Owner:	Customer:	Pre-cleaning: No Pre-Cleaning	Date cleaned:	Project name: WEST05-65
City: WORCESTER MA	Street: ELM ST	Location code:	Pipe use: Stormwater Pipe	Drainage area: Not Controlled
Upstream MH No: DS03985	Downstream MH No: DS06019	Direction: U	Total length: 69.954 ft.	Length surveyed: 69.954 ft.
Purpose:	Pipe joint length:	Height: 15 in.	Material: Vitrified Clay Pipe	LateralsCounter:
Additional info: 				

Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	41	3A21	2.9	0	0	0	0000	0.0	41	2.9	4.0	
2	0	2				0	0							
3	0	39				0	0							
4	0	0				0	0							
5	0	0				0	0							

AMH 'DS03985'



Mainline length: 69.954 ft.
Surveyed length: 69.954 ft.

Omitted: 60.15 ft.

Started at 0.0 ft. against flow
on 1/24/2020 10:32:06 AM

AMH 'DS06019'



NWMCC INSPECTION REPORT

Inspection Photos

City: WORCESTER MA	Street: ELM ST	Start date/time: 20200124 10:32	Pipe segment ref.: DL01219
------------------------------	--------------------------	---	--------------------------------------



Distance: 4.9 ft.
CM - Crack Multiple
Clock from: 8 o'clock
Clock to: 4 o'clock
Rating: 3
Dimension 1:
Dimension 2:
%:

Photo: **DS03985-DS06019-20200124-103206-103332.JPG**
At: **4.904 ft. 8/4 CM - Crack Multiple**
Joint: **No**



Distance: 9.8 ft.
CM - Crack Multiple
Clock from: 5 o'clock
Clock to: 7 o'clock
Rating: 3
Dimension 1:
Dimension 2:
%:

Photo: **DS03985-DS06019-20200124-103206-103605.JPG**
At: **9.808 ft. 5/7 CM - Crack Multiple**
Joint: **No**



Distance: 12.0 ft.
CM - Crack Multiple
Clock from: 9 o'clock
Clock to: 3 o'clock
Rating: 3
Dimension 1:
Dimension 2:
%:

Photo: **DS03985-DS06019-20200124-103206-103701.JPG**
At: **12.009 ft. CM - Crack Multiple 9/3**
Joint: **No**



Distance: 12.0 ft.
CL - Crack Longitudinal
Clock from: 4 o'clock
Clock to:
Rating: 2
Dimension 1:
Dimension 2:
%:

Photo: **DS03985-DS06019-20200124-103206-103650.JPG**
At: **12.009 ft. 4/. CL - Crack Longitudinal**
Joint: **No**

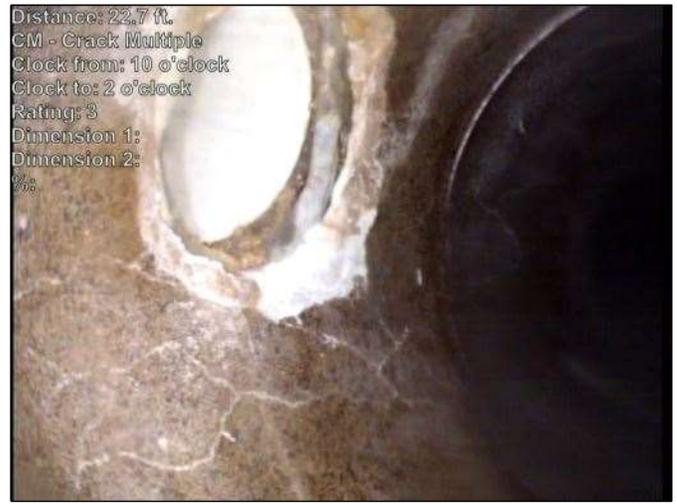


Distance: 17.2 ft.
 CM - Crack Multiple
 Clock from: 10 o'clock
 Clock to: 2 o'clock
 Rating: 3
 Dimension 1:
 Dimension 2:
 %:

Photo: DS03985-DS06019-20200124-103206-103817.JPG

At: 17.213 ft. CM - Crack Multiple
 10/2

Joint: No



Distance: 22.7 ft.
 CM - Crack Multiple
 Clock from: 10 o'clock
 Clock to: 2 o'clock
 Rating: 3
 Dimension 1:
 Dimension 2:
 %:

Photo: DS03985-DS06019-20200124-103206-104000.JPG

At: 22.717 ft. CM - Crack Multiple
 10/2

Joint: No



Distance: 23.6 ft.
 TB - Tap Break-in/Hammer
 Clock from: 12 o'clock
 Clock to:
 Rating:
 Dimension 1: 6
 Dimension 2:
 %:

Photo: DS03985-DS06019-20200124-103206-104056.JPG

At: 23.618 ft. TB - Tap Break-in/Hammer
 12/.

Joint: No



Distance: 52.6 ft.
 TB - Tap Break-in/Hammer
 Clock from: 10 o'clock
 Clock to:
 Rating:
 Dimension 1: 6
 Dimension 2:
 %:

Photo: DS03985-DS06019-20200124-103206-104914.JPG

At: 52.64 ft. 10/. TB - Tap Break-in/Hammer

Joint: No



Distance: 70.0 ft.
 CM - Crack Multiple
 Clock from: 10 o'clock
 Clock to: 2 o'clock
 Rating: 3
 Dimension 1:
 Dimension 2:
 %:

Photo: DS03985-DS06019-20200124-103206-105013.JPG

At: 69.954 ft. CM - Crack Multiple
 10/2

Joint: No



Distance: 70.0 ft.
 AMH - Manhole
 Clock from:
 Clock to:
 Rating:
 Dimension 1:
 Dimension 2:
 %:

Photo: DS03985-DS06019-20200124-103206-105019.JPG

At: 69.954 ft. AMH - Manhole

Joint: No UPSTREAM SURVEY ENDS



NWMCC INSPECTION REPORT

PACP Rating Description

<p><u>1:</u> Excellent Condition</p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u> Good Condition</p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u> Fair Condition</p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u> Poor Condition</p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u> Immediate Attention</p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>



NWMCC INSPECTION REPORT

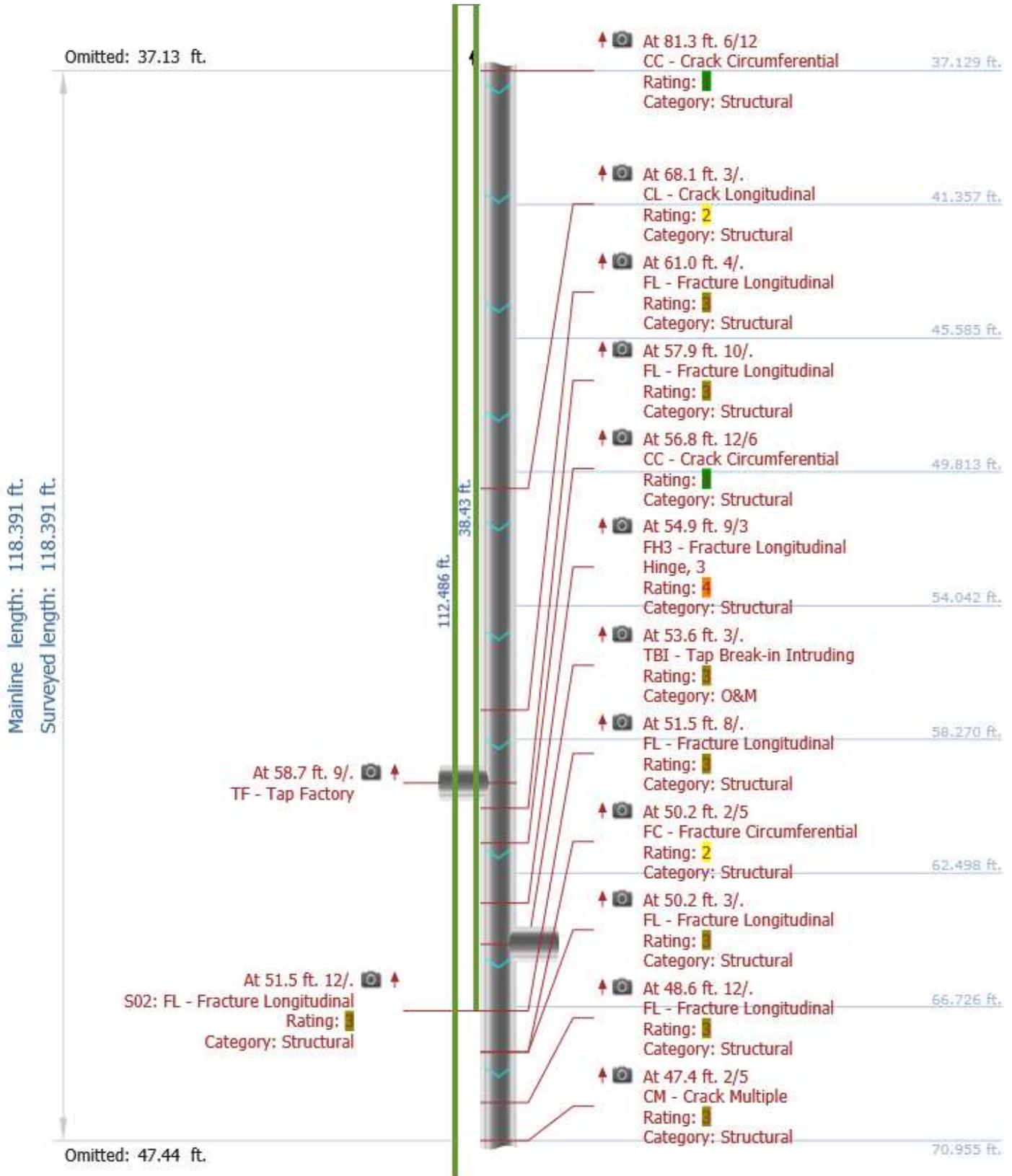
Start date/time: 20200211 09:40	Weather: Dry - No precipitation during survey	Surveyed by: B. DEGROATE	Certificate number: 07007097	Pipe segment ref.: DL01993
Owner:	Customer:	Pre-cleaning: No Pre-Cleaning	Date cleaned:	Project name: WEST05-65
City: WORCESTER	Street: MAPLE ST	Location code:	Pipe use: Stormwater Pipe	Drainage area: Flow control:
Upstream MH No: DS09203	Downstream MH No: DS08728	Direction: U	Total length: 118.391 ft.	Length surveyed: 118.391 ft.
Purpose:	Pipe joint length:	Height: 15 in.	Material: Reinforced Concrete Pipe	LateralsCounter: Additional info:

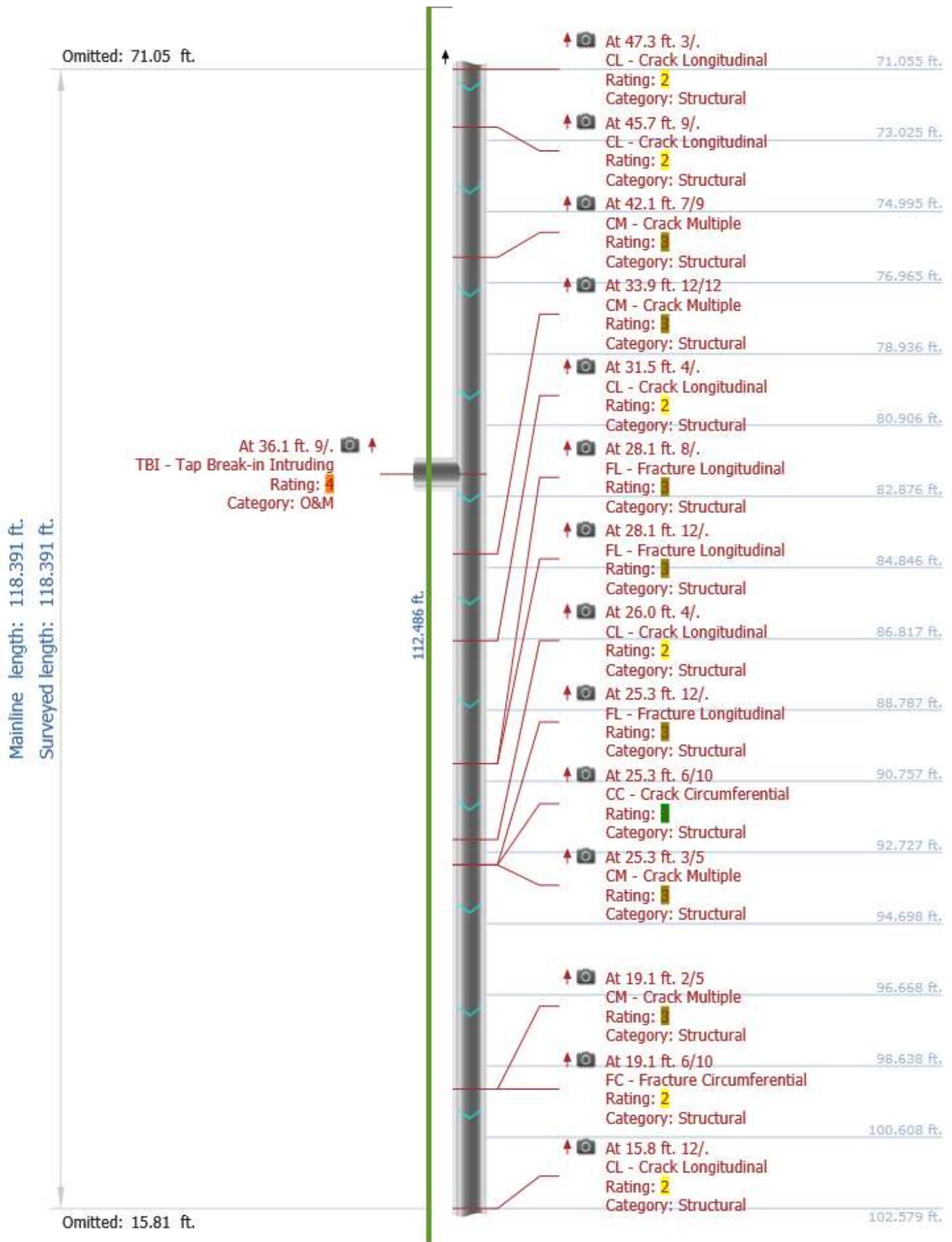
Pipe Ratings

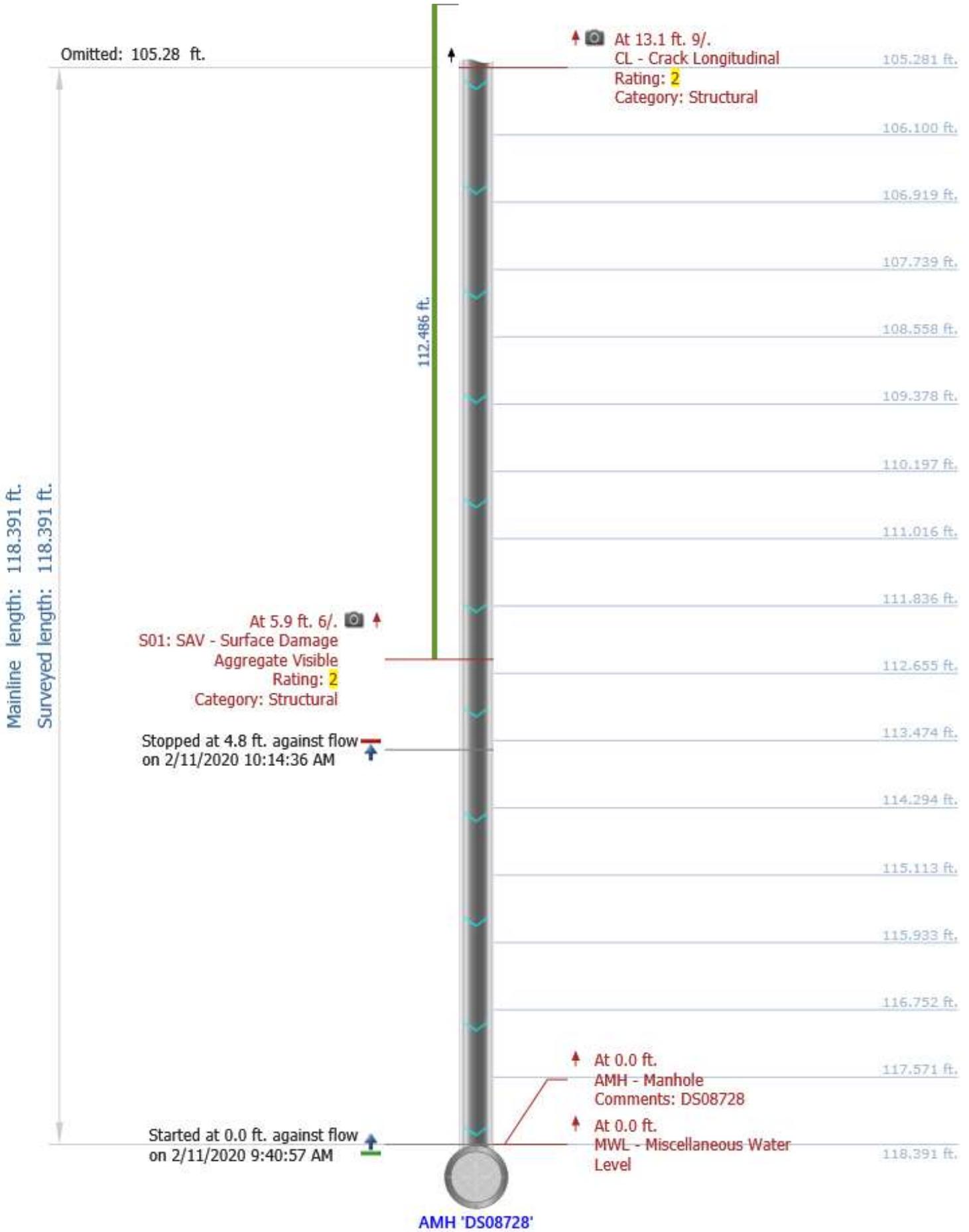
Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	5	136	413C	2.3	0	0	7	4131	3.5	143	2.3	4.2	
2	0	64				0	0							
3	0	63				0	3							
4	0	4				0	4							
5	0	0				0	0							

AMH 'DS09203'









NWMCC INSPECTION REPORT

Inspection Photos

City: WORCESTER	Street: MAPLE ST	Start date/time: 20200211 09:40	Pipe segment ref.: DL01993
---------------------------	----------------------------	---	--------------------------------------



Photo: DS09203-DS08728-20200211-094057-094324.JPG
At: 5.905 ft. 6/. SAV - Surface Damage Aggregate Visible
Joint: Yes



Photo: DS09203-DS08728-20200211-094057-094445.JPG
At: 13.11 ft. 9/. CL - Crack Longitudinal
Joint: Yes



Photo: DS09203-DS08728-20200211-094057-094525.JPG
At: 15.812 ft. CL - Crack Longitudinal
12/.
Joint: Yes



Photo: DS09203-DS08728-20200211-094057-094641.JPG
At: 19.115 ft. FC - Fracture Circumferential
6/10
Joint: No



Distance: 19.1 ft.
CM - Crack Multiple
Clock from: 2 o'clock
Clock to: 5 o'clock
Rating: 3
Dimension 1:
Dimension 2:
%:
Photo: DS09203-DS08728-20200211-094057-094609.JPG
At: 19.115 ft. CM - Crack Multiple
2/5
Joint: No



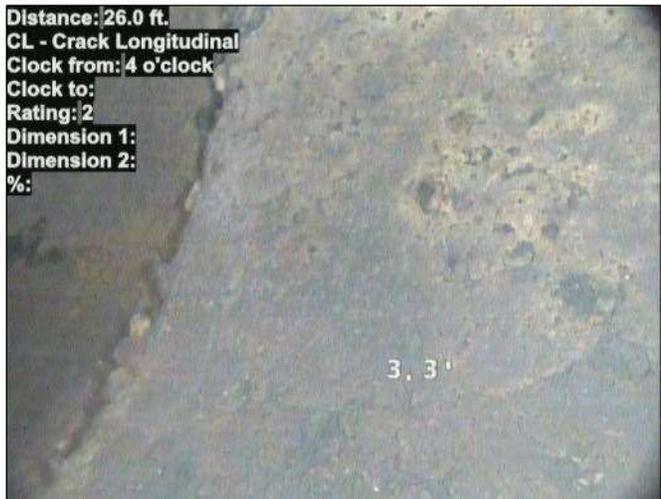
Distance: 25.3 ft.
CM - Crack Multiple
Clock from: 3 o'clock
Clock to: 5 o'clock
Rating: 3
Dimension 1:
Dimension 2:
%:
Photo: DS09203-DS08728-20200211-094057-094846.JPG
At: 25.319 ft. CM - Crack Multiple
3/5
Joint: No



Distance: 25.3 ft.
CC - Crack Circumferential
Clock from: 6 o'clock
Clock to: 10 o'clock
Rating: 1
Dimension 1:
Dimension 2:
%:
Photo: DS09203-DS08728-20200211-094057-094817.JPG
At: 25.319 ft. CC - Crack Circumferential
6/10
Joint: No



Distance: 25.3 ft.
FL - Fracture Longitudinal
Clock from: 12 o'clock
Clock to:
Rating: 3
Dimension 1:
Dimension 2:
%:
Photo: DS09203-DS08728-20200211-094057-094803.JPG
At: 25.319 ft. FL - Fracture Longitudinal
12/
Joint: Yes



Distance: 26.0 ft.
CL - Crack Longitudinal
Clock from: 4 o'clock
Clock to:
Rating: 2
Dimension 1:
Dimension 2:
%:
Photo: DS09203-DS08728-20200211-094057-094901.JPG
At: 26.02 ft. 4/. CL - Crack Longitudinal
Joint: Yes



Distance: 28.1 ft.
FL - Fracture Longitudinal
Clock from: 12 o'clock
Clock to:
Rating: 3
Dimension 1:
Dimension 2:
%:
Photo: DS09203-DS08728-20200211-094057-094940.JPG
At: 28.122 ft. FL - Fracture Longitudinal
12/
Joint: Yes



Distance: 28.1 ft.
FL - Fracture Longitudinal
Clock from: 8 o'clock
Clock to:
Rating: 3
Dimension 1:
Dimension 2:
%:

Photo: DS09203-DS08728-20200211-094057-094924.JPG
At: 28.122 ft. 8/. FL - Fracture Longitudinal
Joint: Yes



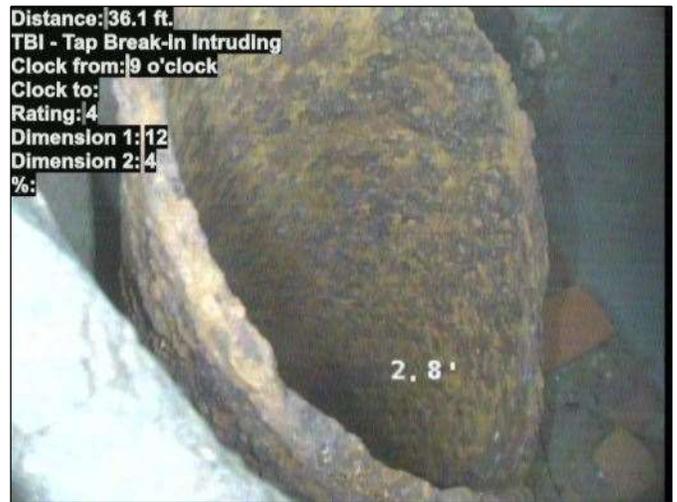
Distance: 31.5 ft.
CL - Crack Longitudinal
Clock from: 4 o'clock
Clock to:
Rating: 2
Dimension 1:
Dimension 2:
%:

Photo: DS09203-DS08728-20200211-094057-095013.JPG
At: 31.524 ft. 4/. CL - Crack Longitudinal
Joint: Yes



Distance: 33.9 ft.
CM - Crack Multiple
Clock from: 12 o'clock
Clock to: 12 o'clock
Rating: 3
Dimension 1:
Dimension 2:
%:

Photo: DS09203-DS08728-20200211-094057-095109.JPG
At: 33.926 ft. CM - Crack Multiple
12/12
Joint: Yes



Distance: 36.1 ft.
TBI - Tap Break-in Intruding
Clock from: 9 o'clock
Clock to:
Rating: 4
Dimension 1: 12
Dimension 2: 4
%:

Photo: DS09203-DS08728-20200211-094057-095202.JPG
At: 36.128 ft. 9/. TBI - Tap Break-in Intruding
Joint: No



Distance: 42.1 ft.
CM - Crack Multiple
Clock from: 7 o'clock
Clock to: 9 o'clock
Rating: 3
Dimension 1:
Dimension 2:
%:

Photo: DS09203-DS08728-20200211-094057-095250.JPG
At: 42.132 ft. CM - Crack Multiple
7/9
Joint: Yes



Distance: 45.7 ft.
CL - Crack Longitudinal
Clock from: 9 o'clock
Clock to:
Rating: 2
Dimension 1:
Dimension 2:
%:

Photo: DS09203-DS08728-20200211-094057-095344.JPG
At: 45.735 ft. 9/. CL - Crack Longitudinal
Joint: Yes



Distance: 47.3 ft.
CL - Crack Longitudinal
Clock from: 3 o'clock
Clock to:
Rating: 2
Dimension 1:
Dimension 2:
%:

Photo: DS09203-DS08728-20200211-094057-095402.JPG
At: 47.336 ft. 3/. CL - Crack Longitudinal
Joint: No



Distance: 47.4 ft.
CM - Crack Multiple
Clock from: 2 o'clock
Clock to: 5 o'clock
Rating: 3
Dimension 1:
Dimension 2:
%:

Photo: DS09203-DS08728-20200211-094057-095414.JPG
At: 47.436 ft. CM - Crack Multiple
2/5
Joint: No



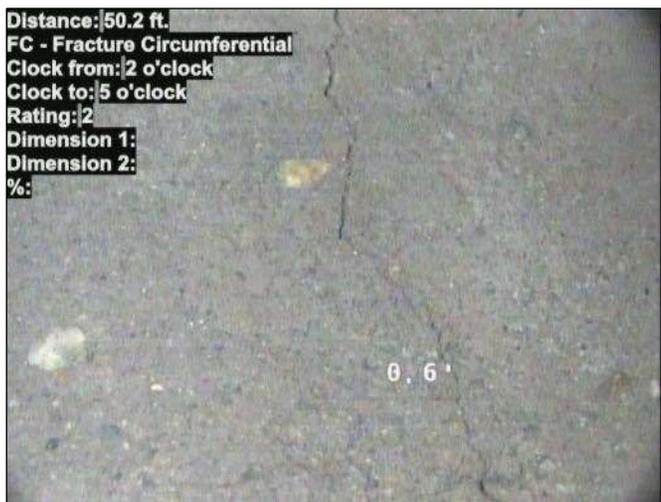
Distance: 48.6 ft.
FL - Fracture Longitudinal
Clock from: 12 o'clock
Clock to:
Rating: 3
Dimension 1:
Dimension 2:
%:

Photo: DS09203-DS08728-20200211-094057-095435.JPG
At: 48.637 ft. FL - Fracture Longitudinal
12/.
Joint: Yes



Distance: 50.2 ft.
FL - Fracture Longitudinal
Clock from: 3 o'clock
Clock to:
Rating: 3
Dimension 1:
Dimension 2:
%:

Photo: DS09203-DS08728-20200211-094057-095516.JPG
At: 50.238 ft. 3/. FL - Fracture Longitudinal
Joint: Yes



Distance: 50.2 ft.
FC - Fracture Circumferential
Clock from: 2 o'clock
Clock to: 5 o'clock
Rating: 2
Dimension 1:
Dimension 2:
%:

Photo: DS09203-DS08728-20200211-094057-095501.JPG
At: 50.238 ft. FC - Fracture Circumferential
2/5
Joint: No



Distance: 51.5 ft.
FL - Fracture Longitudinal
Clock from: 12 o'clock
Clock to:
Rating: 3
Dimension 1:
Dimension 2:
%:

Photo: DS09203-DS08728-20200211-094057-095613.JPG
At: 51.539 ft. FL - Fracture Longitudinal
12/.
Joint: Yes



Distance: 51.5 ft.
FL - Fracture Longitudinal
Clock from: 8 o'clock
Clock to:
Rating: 3
Dimension 1:
Dimension 2:
%:

1.4'

Photo: DS09203-DS08728-20200211-094057-095557.JPG
At: 51.539 ft. 8/. FL - Fracture Longitudinal
Joint: No



Distance: 53.6 ft.
TBI - Tap Break-In Intruding
Clock from: 3 o'clock
Clock to:
Rating: 3
Dimension 1: 12
Dimension 2: 3
%:

2.0'

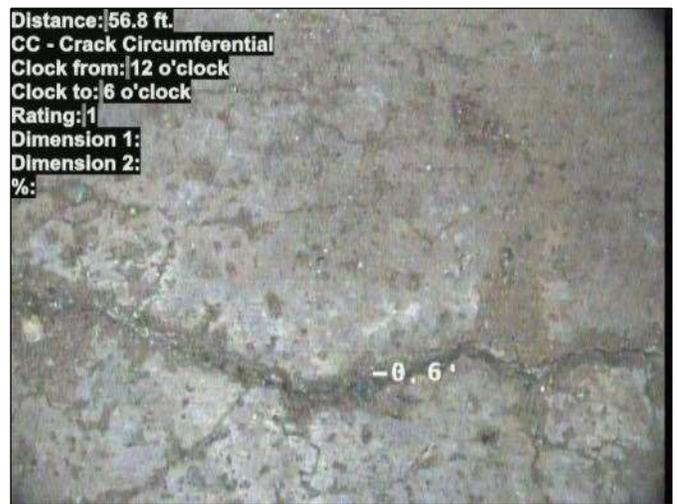
Photo: DS09203-DS08728-20200211-094057-095648.JPG
At: 53.641 ft. 3/. TBI - Tap Break-in Intruding
Joint: No



Distance: 54.9 ft.
FH3 - Fracture Longitudinal Hinge, 3
Clock from: 9 o'clock
Clock to: 3 o'clock
Rating: 4
Dimension 1:
Dimension 2:
%:

2.0'

Photo: DS09203-DS08728-20200211-094057-095724.JPG
At: 54.942 ft. FH3 - Fracture Longitudinal Hinge, 3
9/3
Joint: Yes



Distance: 56.8 ft.
CC - Crack Circumferential
Clock from: 12 o'clock
Clock to: 6 o'clock
Rating: 1
Dimension 1:
Dimension 2:
%:

0.6'

Photo: DS09203-DS08728-20200211-094057-095754.JPG
At: 56.844 ft. CC - Crack Circumferential
12/6
Joint: No



Distance: 57.9 ft.
FL - Fracture Longitudinal
Clock from: 10 o'clock
Clock to:
Rating: 3
Dimension 1:
Dimension 2:
%:

0.4'

Photo: DS09203-DS08728-20200211-094057-095814.JPG
At: 57.944 ft. FL - Fracture Longitudinal
10/.
Joint: Yes



Distance: 58.7 ft.
TF - Tap Factory
Clock from: 9 o'clock
Clock to:
Rating:
Dimension 1: 6
Dimension 2:
%:

1.7'

Photo: DS09203-DS08728-20200211-094057-095829.JPG
At: 58.745 ft. 9/. TF - Tap Factory
Joint: No



Distance: 61.0 ft.
FL - Fracture Longitudinal
Clock from: 4 o'clock
Clock to:
Rating: 3
Dimension 1:
Dimension 2:
%:

Photo: DS09203-DS08728-20200211-094057-095908.JPG
At: 61.047 ft. 4/. FL - Fracture Longitudinal
Joint: Yes



Distance: 68.1 ft.
CL - Crack Longitudinal
Clock from: 3 o'clock
Clock to:
Rating: 2
Dimension 1:
Dimension 2:
%:

Photo: DS09203-DS08728-20200211-094057-100001.JPG
At: 68.052 ft. 3/. CL - Crack Longitudinal
Joint: Yes



Distance: 81.3 ft.
CC - Crack Circumferential
Clock from: 6 o'clock
Clock to: 12 o'clock
Rating: 1
Dimension 1:
Dimension 2:
%:

Photo: DS09203-DS08728-20200211-094057-100233.JPG
At: 81.262 ft. CC - Crack Circumferential
6/12
Joint: No



Distance: 84.2 ft.
CC - Crack Circumferential
Clock from: 12 o'clock
Clock to: 12 o'clock
Rating: 1
Dimension 1:
Dimension 2:
%:

Photo: DS09203-DS08728-20200211-094057-100343.JPG
At: 84.164 ft. CC - Crack Circumferential
12/12
Joint: No



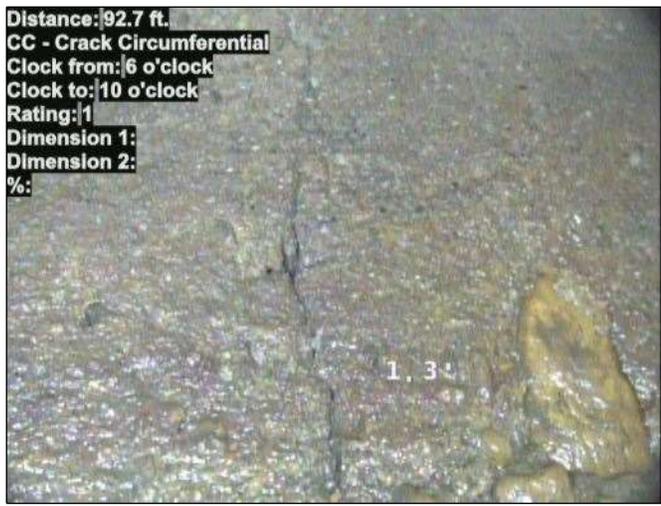
Distance: 90.0 ft.
FL - Fracture Longitudinal
Clock from: 12 o'clock
Clock to:
Rating: 3
Dimension 1:
Dimension 2:
%:

Photo: DS09203-DS08728-20200211-094057-100422.JPG
At: 89.969 ft. FL - Fracture Longitudinal
12/.
Joint: Yes



Distance: 92.6 ft.
CL - Crack Longitudinal
Clock from: 8 o'clock
Clock to:
Rating: 2
Dimension 1:
Dimension 2:
%:

Photo: DS09203-DS08728-20200211-094057-100445.JPG
At: 92.571 ft. 8/. CL - Crack Longitudinal
Joint: Yes



Distance: 92.7 ft.
CC - Crack Circumferential
Clock from: 6 o'clock
Clock to: 10 o'clock
Rating: 1
Dimension 1:
Dimension 2:
%:

1.3'

Photo: DS09203-DS08728-20200211-094057-100521.JPG

At: 92.671 ft. CC - Crack Circumferential
6/10

Joint: No



Distance: 113.8 ft.
TF - Tap Factory
Clock from: 3 o'clock
Clock to:
Rating:
Dimension 1: 6
Dimension 2:
%:

2.1'

Photo: DS09203-DS08728-20200211-094057-100741.JPG

At: 113.787 ft. TF - Tap Factory
3/.

Joint: No



Distance: 118.4 ft.
AMH - Manhole
Clock from:
Clock to:
Rating:
Dimension 1:
Dimension 2:
%:

SURVEY ENDS

0.5'

Photo: DS09203-DS08728-20200211-094057-100837.JPG

At: 118.391 ft. AMH - Manhole

Joint: No SURVEY ENDS



Distance: 118.4 ft.
SAV - Surface Damage Aggregate Visible
Clock from: 6 o'clock
Clock to:
Rating: 2
Dimension 1:
Dimension 2:
%:

0.5'

Photo: DS09203-DS08728-20200211-094057-100830.JPG

At: 118.391 ft. SAV - Surface Damage Aggregate Visible
6/.

Joint: Yes



NWMCC INSPECTION REPORT

PACP Rating Description

<p><u>1:</u> Excellent Condition</p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u> Good Condition</p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u> Fair Condition</p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u> Poor Condition</p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u> Immediate Attention</p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>



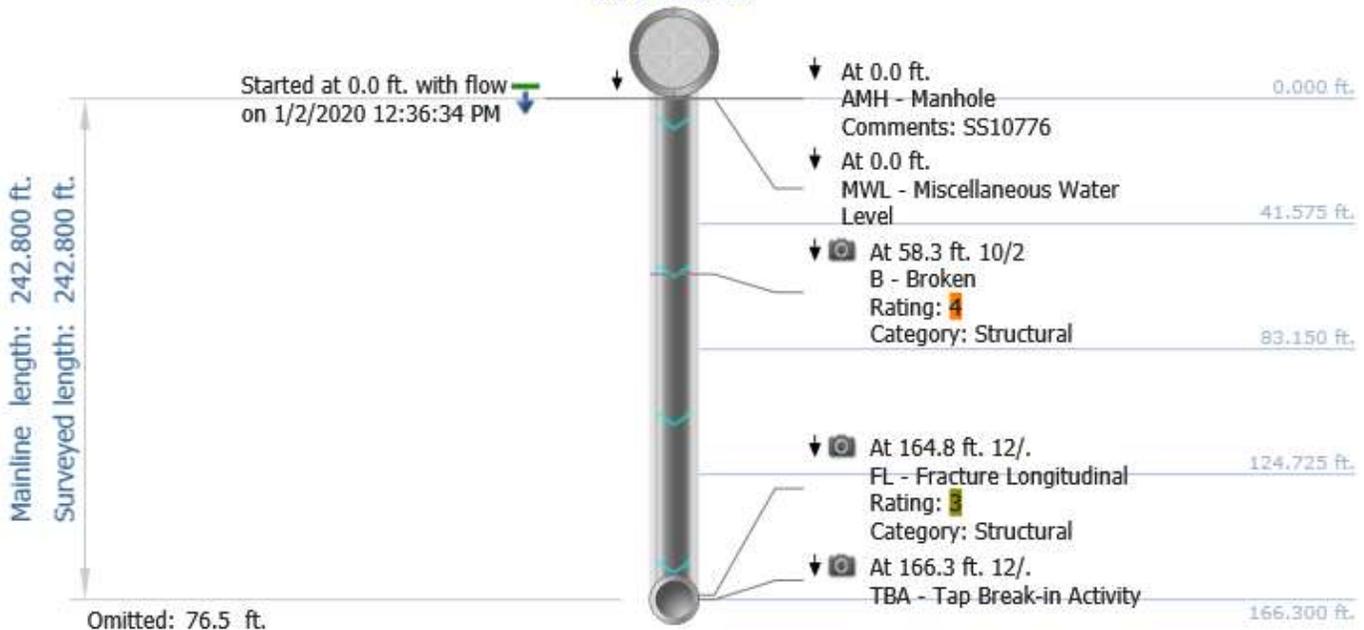
NWMCC INSPECTION REPORT

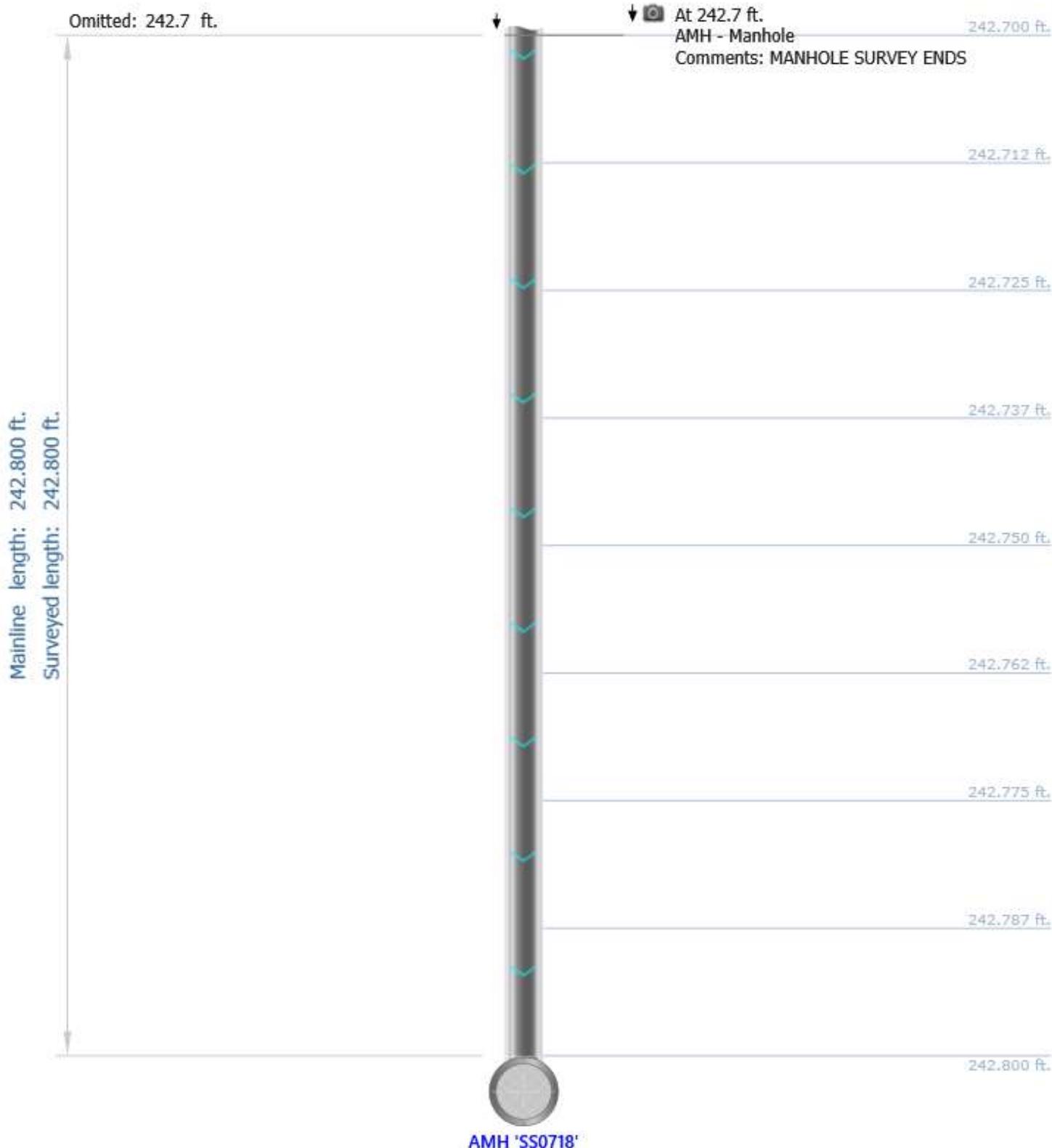
Start date/time: 20200102 12:36	Weather: Dry - No precipitation during survey	Surveyed by: B. DEGROATE	Certificate number: 07007097	Pipe segment ref.: SM06814	
Owner:	Customer:	Pre-cleaning: Not Known	Date cleaned:	Project name: WEST05-65	
City: WORCESTER MA	Street: CLARK ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area:	Flow control: Not Controlled
Upstream MH No: SS10776	Downstream MH No: SS0718	Direction: D	Total length: 242.800 ft.	Length surveyed: 242.800 ft.	
Purpose:	Pipe joint length:	Height: 8 in.	Material: Vitrified Clay Pipe	LateralsCounter:	Additional info:

Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	7	4131	3.5	0	0	0	0000	0.0	7	3.5	4.1	
2	0	0				0	0							
3	0	3				0	0							
4	0	4				0	0							
5	0	0				0	0							

AMH 'SS10776'





Some observations have distance greater than the pipe length

Stopped at 242.8 ft. with flow 
on 1/2/2020 12:57:50 PM 

NWMCC INSPECTION REPORT

Inspection Photos

City: WORCESTER MA	Street: CLARK ST	Start date/time: 20200102 12:36	Pipe segment ref.: SM06814
------------------------------	----------------------------	---	--------------------------------------



Photo: **SS10776-SS0718-20200102-123634-124430.JPG**
At: **58.3 ft. 10/2 B - Broken**
Joint: **No**



Photo: **SS10776-SS0718-20200102-123634-125103_1.JPG**
At: **164.8 ft. 12/. FL - Fracture Longitudinal**
Joint: **No**

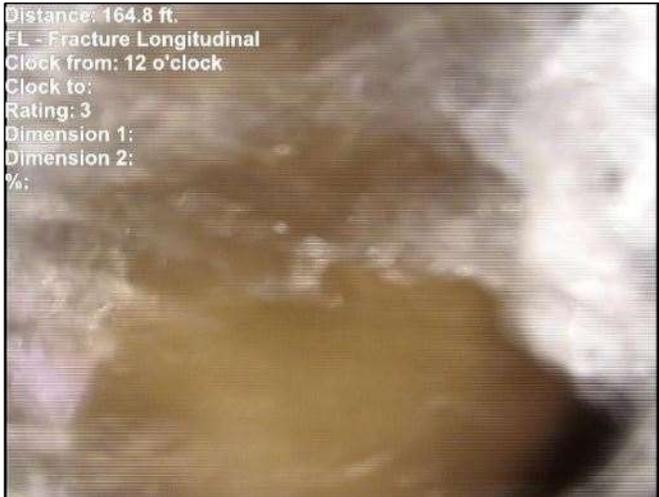


Photo: **SS10776-SS0718-20200102-123634-125103.JPG**
At: **164.8 ft. 12/. FL - Fracture Longitudinal**
Joint: **No**



Photo: **SS10776-SS0718-20200102-123634-125206.JPG**
At: **166.3 ft. 12/. TBA - Tap Break-in Activity**
Joint: **No**

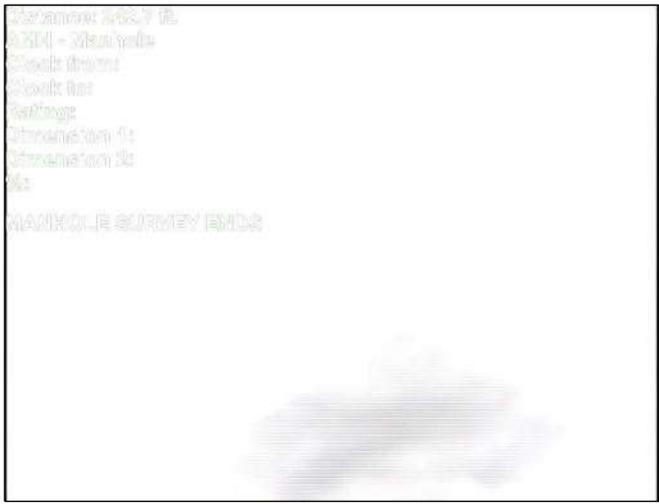


Photo: **SS10776-SS0718-20200102-123634-125724.JPG**

At: **242.7 ft. AMH - Manhole**

Joint: **No MANHOLE SURVEY ENDS**



NWMCC INSPECTION REPORT

PACP Rating Description

<p><u>1:</u> Excellent Condition</p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u> Good Condition</p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u> Fair Condition</p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u> Poor Condition</p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u> Immediate Attention</p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>



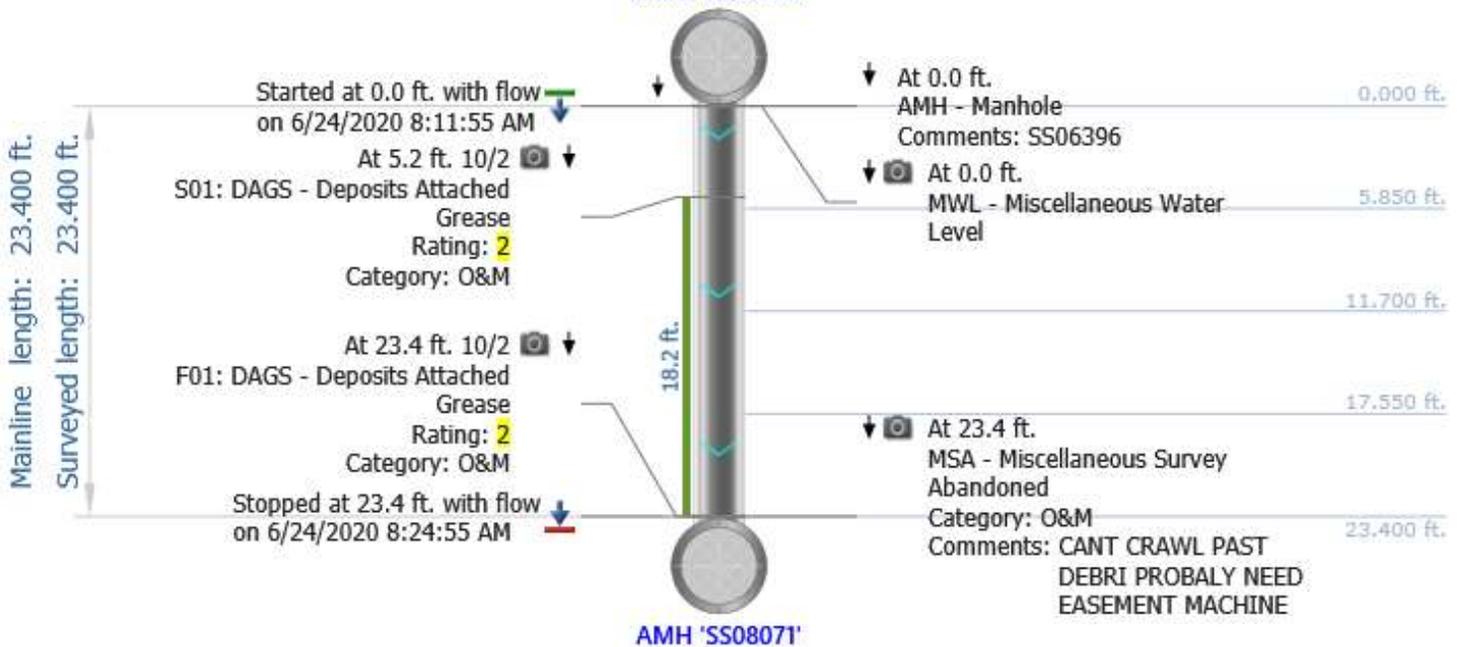
NWMCC INSPECTION REPORT

Start date/time: 20200624 08:11	Weather: Dry - No precipitation during survey	Surveyed by: B.GROM	Certificate number: 1234	Pipe segment ref.: SM00960	
Owner:	Customer:	Pre-cleaning: No Pre-Cleaning	Date cleaned:	Project name: WEST05-65	
City: WORCESTER MA	Street: GARRISON AVE	Location code: Easement/Right of way	Pipe use: Sanitary Sewage Pipe	Drainage area:	Flow control: Not Controlled
Upstream MH No: SS06396	Downstream MH No: SS08071	Direction: D	Total length: 23.400 ft.	Length surveyed: 23.400 ft.	
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Vitrified Clay Pipe	LateralsCounter:	Additional info:

Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	8	2400	2.0	8	2.0	2.4	
2	0	0				0	8							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							

AMH 'SS06396'



NWMCC INSPECTION REPORT

Inspection Photos

City: WORCESTER MA	Street: GARRISON AVE	Start date/time: 20200624 08:11	Pipe segment ref.: SM00960
------------------------------	--------------------------------	---	--------------------------------------



Distance: 0.0 ft.
MWL - Miscellaneous Water Level
Clock from:
Clock to:
Rating:
Dimension 1:
Dimension 2:
%: 5 %

Photo: SS06396-SS08071-20200624-081155-081156.JPG
At: 0 ft. MWL - Miscellaneous Water Level
Joint: No 5 %



6/24/2020 8:15:51 AM
Upstream MH No: AMH 'SS06396'
Downstream MH No: AMH 'SS08071'

15.7 ft.

Photo: SS06396-SS08071-20200624-081155-081337_4.JPG
At: 5.2 ft. 10/2 DAGS - Deposits Attached Grease
Joint: No 5 %



6/24/2020 8:14:35 AM
Upstream MH No: AMH 'SS06396'
Downstream MH No: AMH 'SS08071'

8.1 ft.

Photo: SS06396-SS08071-20200624-081155-081337_3.JPG
At: 5.2 ft. 10/2 DAGS - Deposits Attached Grease
Joint: No 5 %



6/24/2020 8:14:31 AM
Upstream MH No: AMH 'SS06396'
Downstream MH No: AMH 'SS08071'

8.1 ft.

Photo: SS06396-SS08071-20200624-081155-081337_2.JPG
At: 5.2 ft. 10/2 DAGS - Deposits Attached Grease
Joint: No 5 %



Photo: SS06396-SS08071-20200624-081155-081337_1.JPG
At: 5.2 ft. 10/2 DAGS - Deposits Attached Grease
Joint: No 5 %

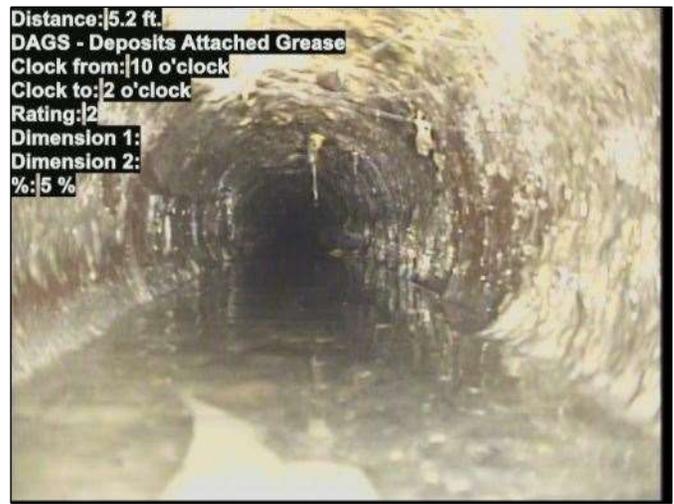


Photo: SS06396-SS08071-20200624-081155-081337.JPG
At: 5.2 ft. 10/2 DAGS - Deposits Attached Grease
Joint: No 5 %



Photo: SS06396-SS08071-20200624-081155-082359.JPG
At: 23.4 ft. MSA - Miscellaneous Survey Abandoned
Joint: No CANT CRAWL PAST DEBRI PROBABLY NEED EASEMENT MACHINE



Photo: SS06396-SS08071-20200624-081155-082352.JPG
At: 23.4 ft. 10/2 DAGS - Deposits Attached Grease
Joint: No 5 %



NWMCC INSPECTION REPORT

PACP Rating Description

<p><u>1:</u> Excellent Condition</p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u> Good Condition</p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u> Fair Condition</p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u> Poor Condition</p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u> Immediate Attention</p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>



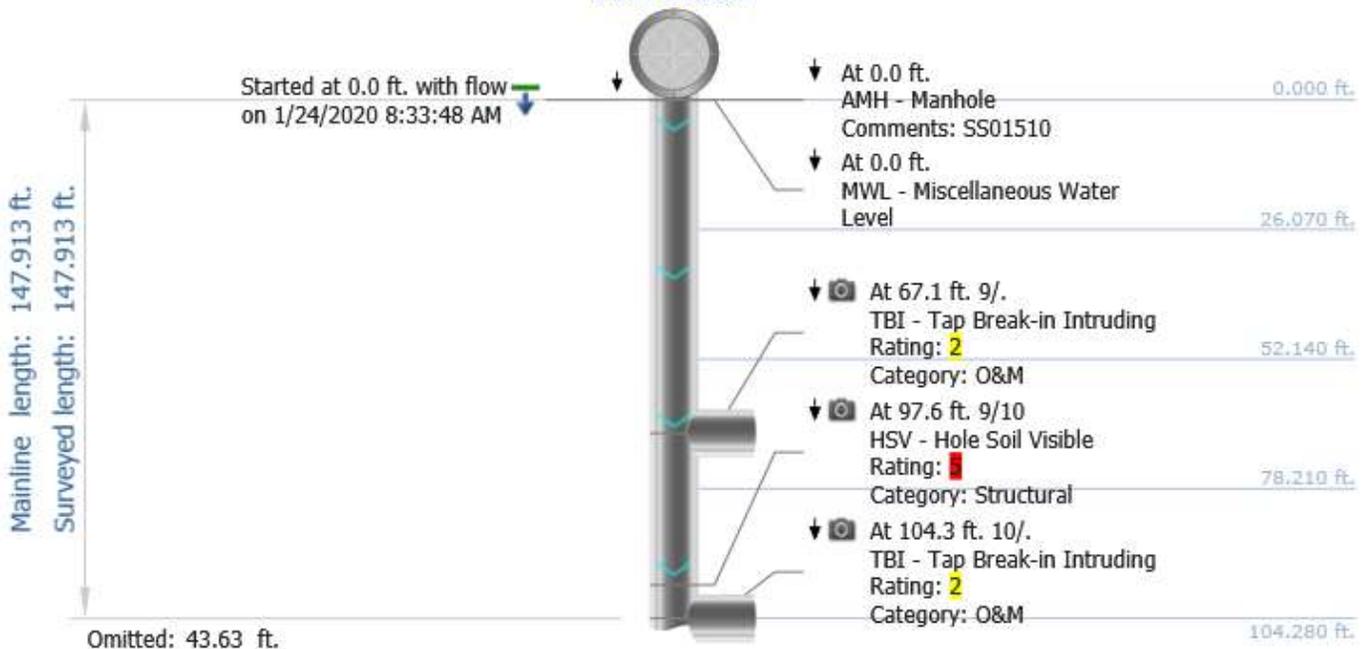
NWMCC INSPECTION REPORT

Start date/time: 20200124 08:33	Weather: Dry - No precipitation during survey	Surveyed by: K.KEAGLE	Certificate number: 123	Pipe segment ref.: SM03527	
Owner:	Customer:	Pre-cleaning: No Pre-Cleaning	Date cleaned:	Project name: WEST05-65	
City: WORCESTER MA	Street: AUSTIN ST	Location code:	Pipe use: Combined Pipe	Drainage area:	Flow control: Not Controlled
Upstream MH No: SS01510	Downstream MH No: SS01510A	Direction: D	Total length: 147.913 ft.	Length surveyed: 147.913 ft.	
Purpose:	Pipe joint length:	Height: 30 in.	Material: Reinforced Concrete Pipe	LateralsCounter:	Additional info:

Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	5	5100	5.0	0	0	4	2200	2.0	9	3.0	5.1	
2	0	0				0	4							
3	0	0				0	0							
4	0	0				0	0							
5	0	5				0	0							

AMH 'SS01510'

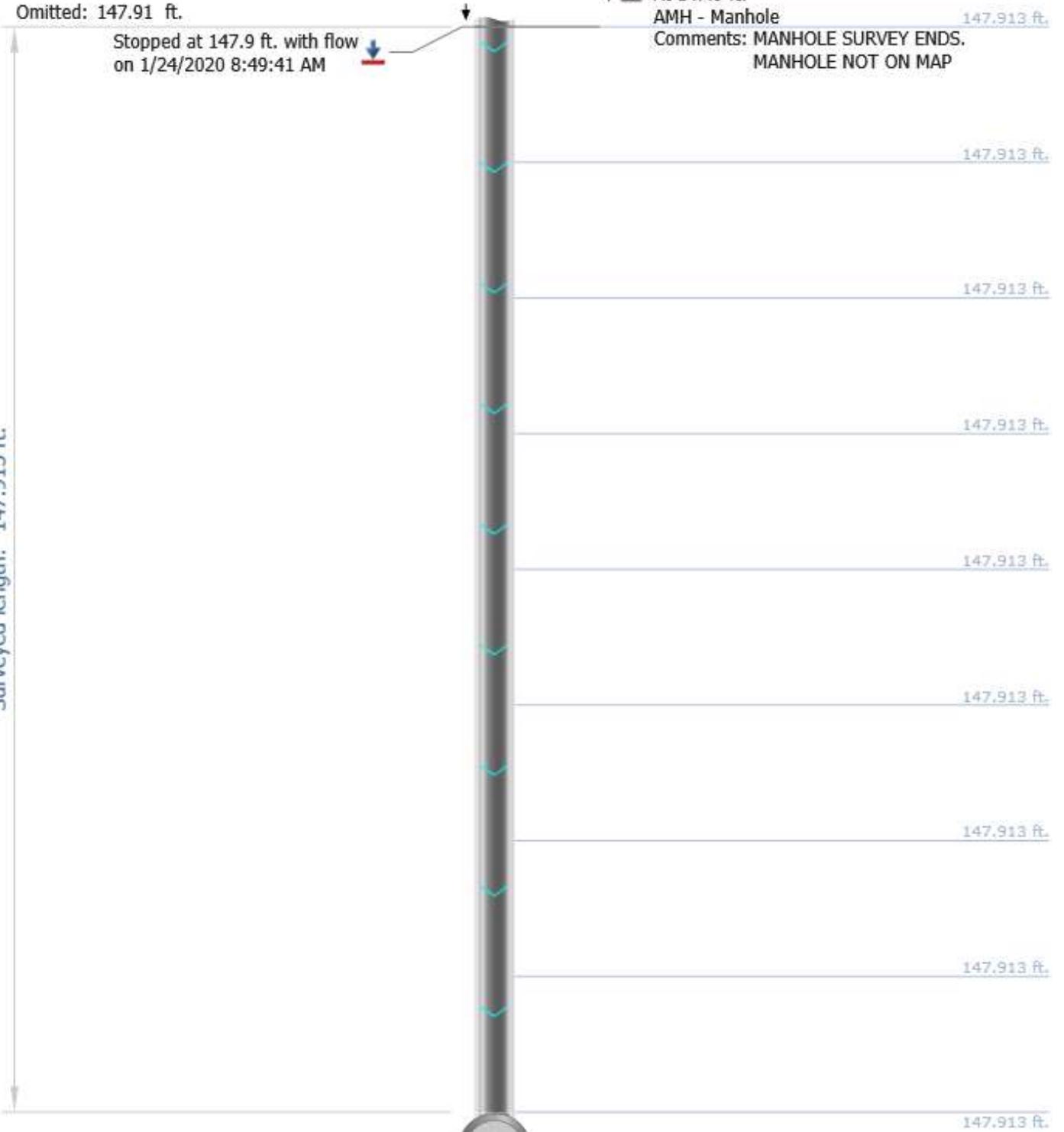


Omitted: 147.91 ft.

Stopped at 147.9 ft. with flow
on 1/24/2020 8:49:41 AM

At 147.9 ft.
AMH - Manhole
Comments: MANHOLE SURVEY ENDS.
MANHOLE NOT ON MAP

Mainline length: 147.913 ft.
Surveyed length: 147.913 ft.



AMH 'SS01510A'

NWMCC INSPECTION REPORT

Inspection Photos

City: WORCESTER MA	Street: AUSTIN ST	Start date/time: 20200124 08:33	Pipe segment ref.: SM03527
------------------------------	-----------------------------	---	--------------------------------------



Photo: **SS01510-SS01512-20200124-083348-083804.JPG**
At: **67.051 ft. 9/. TBI - Tap Break-in Intruding**
Joint: **No**



Photo: **SS01510-SS01512-20200124-083348-083927.JPG**
At: **97.575 ft. HSV - Hole Soil Visible**
9/10
Joint: **No**



Photo: **SS01510-SS01512-20200124-083348-084014.JPG**
At: **104.28 ft. TBI - Tap Break-in Intruding**
10/.
Joint: **No**

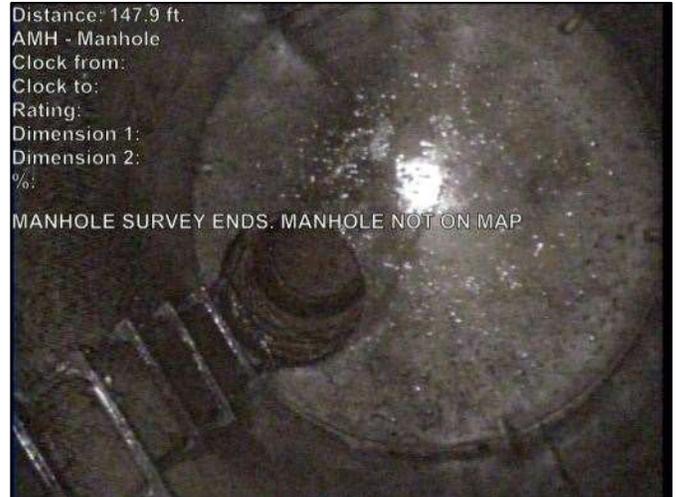


Photo: **SS01510-SS01510A-20200124-083348-084904.JPG**
At: **147.913 ft. AMH - Manhole**
Joint: **No** **MANHOLE SURVEY ENDS. MANHOLE NOT ON MAP**



NWMCC INSPECTION REPORT

PACP Rating Description

<p><u>1:</u> Excellent Condition</p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u> Good Condition</p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u> Fair Condition</p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u> Poor Condition</p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u> Immediate Attention</p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

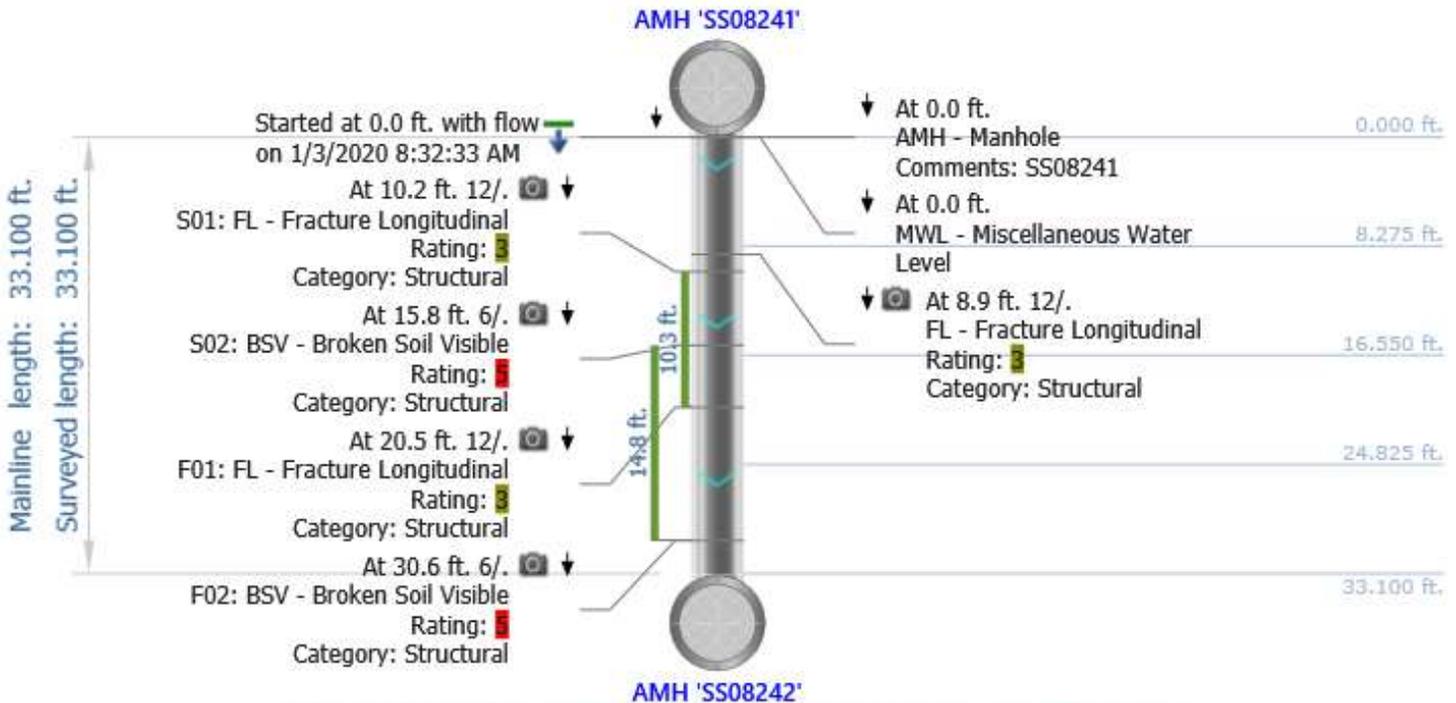


NWMCC INSPECTION REPORT

Start date/time: 20200103 08:32	Weather: Dry Weather/Wet Ground	Surveyed by: K.KEAGLE	Certificate number: 1223	Pipe segment ref.: SM04943
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: WEST05-65
City: WORCESTER MA	Street: SADBERRY ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Not Controlled
Upstream MH No: SS08241	Downstream MH No: SS08242	Direction: D	Total length: 33.100 ft.	Length surveyed: 33.100 ft.
Purpose:	Pipe joint length:	Height: 18 in.	Material: Vitrified Clay Pipe	LateralsCounter:
Additional info:				

Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	24	5333	4.0	0	0	0	0000	0.0	24	4.0	5.3	
2	0	0				0	0							
3	0	9				0	0							
4	0	0				0	0							
5	0	15				0	0							



Stopped at 33.1 ft. with flow 
on 1/3/2020 8:40:37 AM 

↓  At 33.1 ft.
AMH - Manhole
Comments: MANHOLE SURVEY ENDS

NWMCC INSPECTION REPORT

Inspection Photos

City: WORCESTER MA	Street: SADBERRY ST	Start date/time: 20200103 08:32	Pipe segment ref.: SM04943
------------------------------	-------------------------------	---	--------------------------------------



Photo: **SS08241-SS08242-20200103-083233-083449.JPG**
At: **8.9 ft. 12/. FL - Fracture Longitudinal**
Joint: **No**



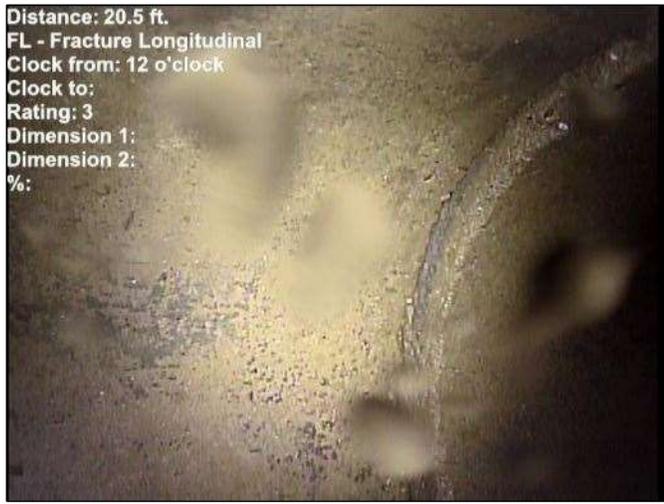
Photo: **SS08241-SS08242-20200103-083233-083510.JPG**
At: **10.2 ft. 12/. FL - Fracture Longitudinal**
Joint: **No**



Photo: **SS08241-SS08242-20200103-083233-083604.JPG**
At: **15.8 ft. 6/. BSV - Broken Soil Visible**
Joint: **No**

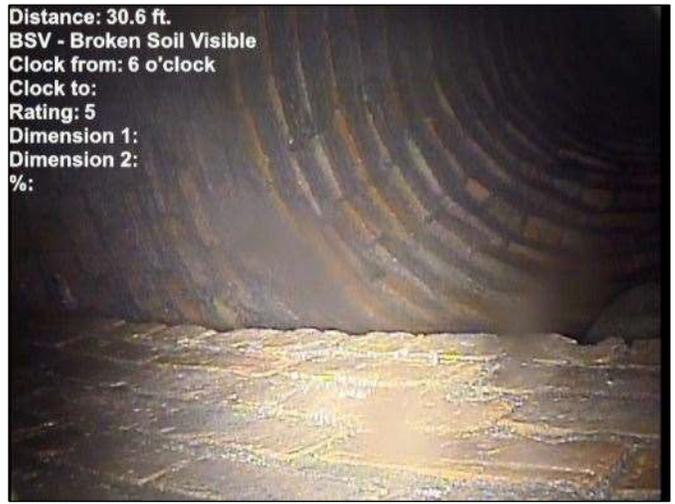


Photo: **SS08241-SS08242-20200103-083233-083700_1.JPG**
At: **20.5 ft. 12/. FL - Fracture Longitudinal**
Joint: **No**



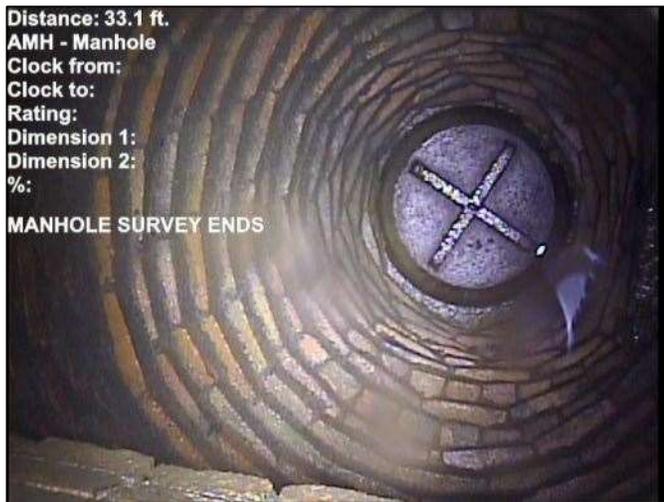
Distance: 20.5 ft.
FL - Fracture Longitudinal
Clock from: 12 o'clock
Clock to:
Rating: 3
Dimension 1:
Dimension 2:
%:

Photo: SS08241-SS08242-20200103-083233-083700.JPG
At: 20.5 ft. 12/. FL - Fracture Longitudinal
Joint: No



Distance: 30.6 ft.
BSV - Broken Soil Visible
Clock from: 6 o'clock
Clock to:
Rating: 5
Dimension 1:
Dimension 2:
%:

Photo: SS08241-SS08242-20200103-083233-083937.JPG
At: 30.6 ft. 6/. BSV - Broken Soil Visible
Joint: No



Distance: 33.1 ft.
AMH - Manhole
Clock from:
Clock to:
Rating:
Dimension 1:
Dimension 2:
%:

MANHOLE SURVEY ENDS

Photo: SS08241-SS08242-20200103-083233-083952.JPG
At: 33.1 ft. AMH - Manhole
Joint: No MANHOLE SURVEY ENDS



NWMCC INSPECTION REPORT

PACP Rating Description

<p><u>1:</u> Excellent Condition</p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u> Good Condition</p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u> Fair Condition</p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u> Poor Condition</p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u> Immediate Attention</p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

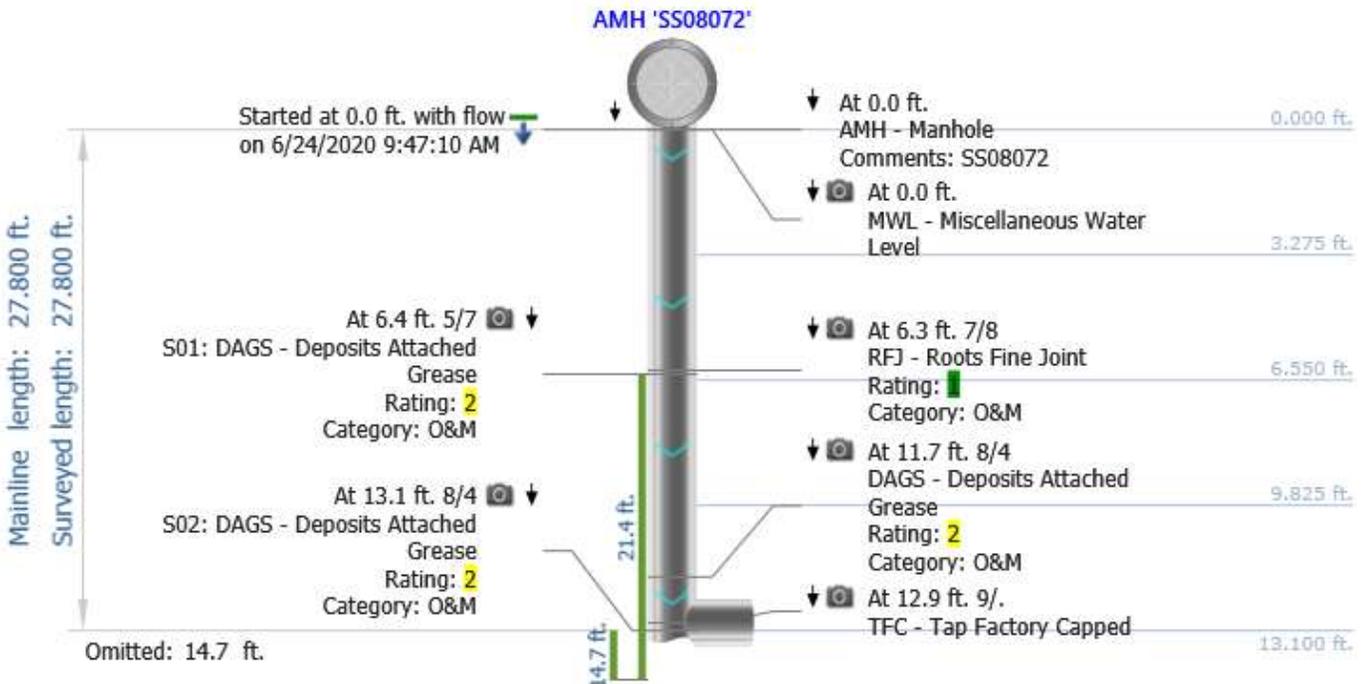


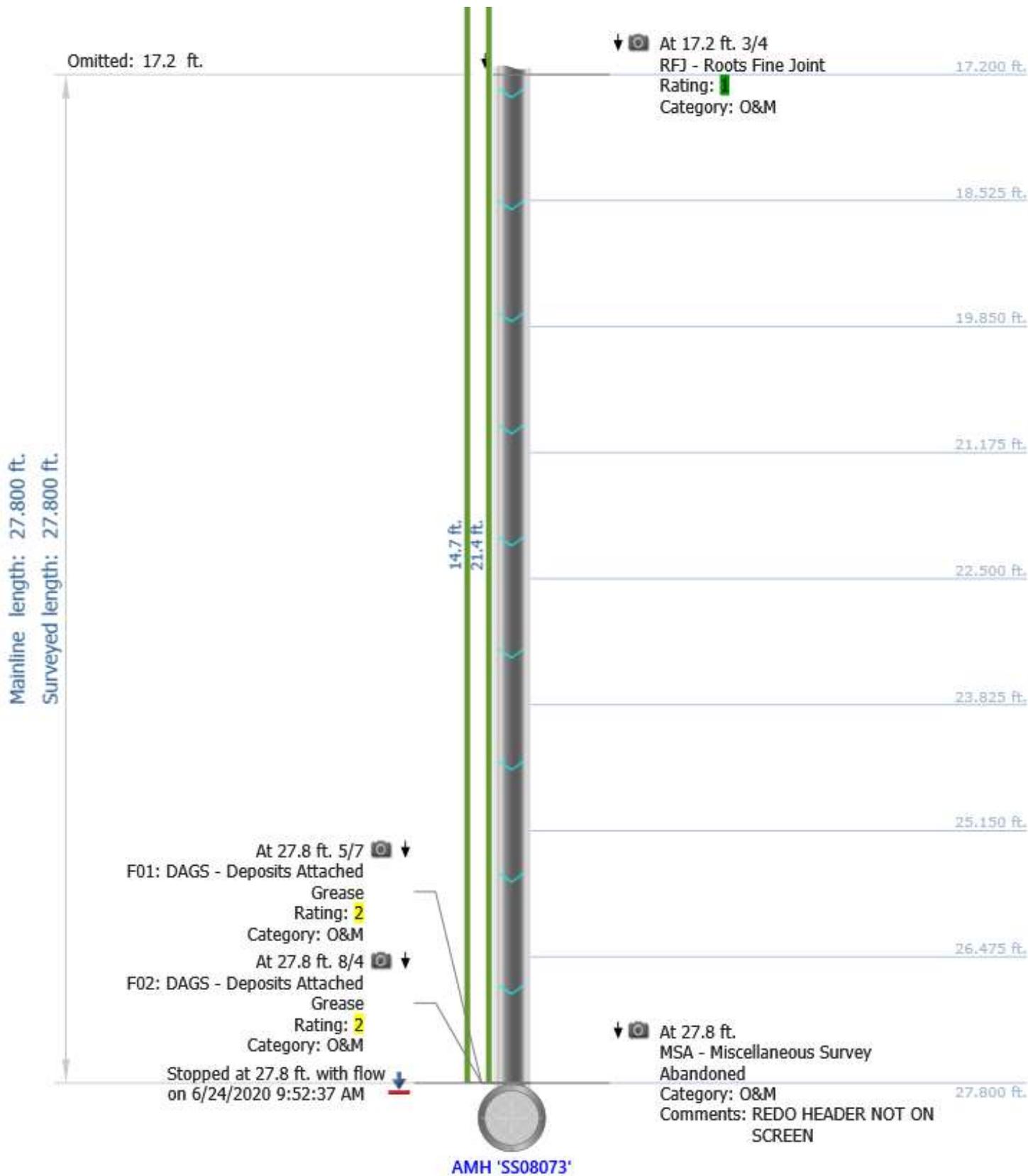
NWMCC INSPECTION REPORT

Start date/time: 20200624 09:47	Weather: Dry - No precipitation during survey	Surveyed by: B.GROM	Certificate number: 1234	Pipe segment ref.: SM07737	
Owner:	Customer:	Pre-cleaning: No Pre-Cleaning	Date cleaned:	Project name: WEST05-65	
City: WORCESTER MA	Street: GARRISON AVE	Location code: Easement/Right of way	Pipe use: Sanitary Sewage Pipe	Drainage area:	Flow control: Not Controlled
Upstream MH No: SS08072	Downstream MH No: SS08073	Direction: D	Total length: 27.800 ft.	Length surveyed: 27.800 ft.	
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Vitrified Clay Pipe	LateralsCounter:	Additional info:

Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	2	18	2812	1.8	18	1.8	2.8	
2	0	0				0	16							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							





NWMCC INSPECTION REPORT

Inspection Photos

City: WORCESTER MA	Street: GARRISON AVE	Start date/time: 20200624 09:47	Pipe segment ref.: SM07737
------------------------------	--------------------------------	---	--------------------------------------

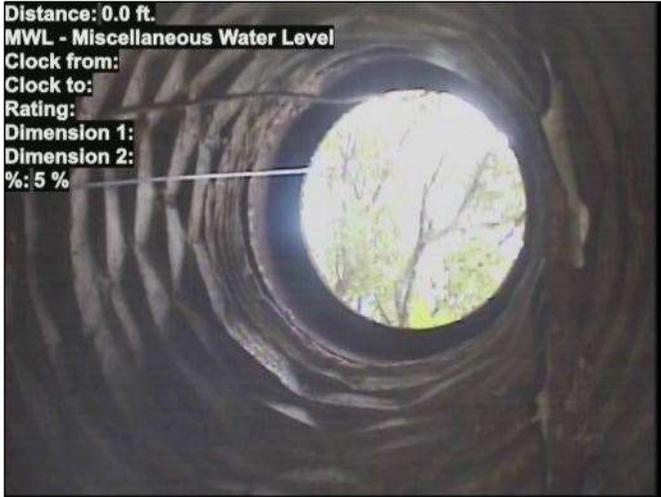


Photo: **SS08072-SS08073-20200624-094710-094712.JPG**
At: **0 ft. MWL - Miscellaneous Water Level**
Joint: **No 5 %**



Photo: **SS08072-SS08073-20200624-094710-094848.JPG**
At: **6.3 ft. 7/8 RFJ - Roots Fine Joint**
Joint: **Yes**



Photo: **SS08072-SS08073-20200624-094710-094902_1.JPG**
At: **6.4 ft. 5/7 DAGS - Deposits Attached Grease**
Joint: **No 5 %**



Photo: **SS08072-SS08073-20200624-094710-094902.JPG**
At: **6.4 ft. 5/7 DAGS - Deposits Attached Grease**
Joint: **No 5 %**

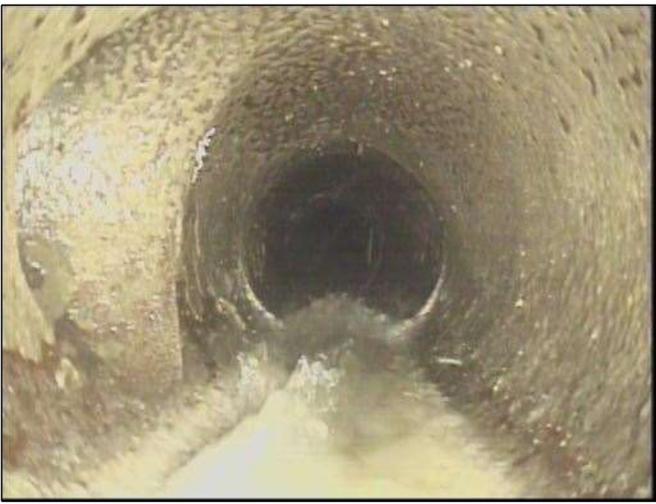


Photo: **SS08072-SS08073-20200624-094710-094936.JPG**
At: **11.7 ft. 8/4 DAGS - Deposits Attached Grease**
Joint: **No 5%**



Photo: **SS08072-SS08073-20200624-094710-094949.JPG**
At: **12.9 ft. 9/. TFC - Tap Factory Capped**
Joint: **Yes**



Photo: **SS08072-SS08073-20200624-094710-095002.JPG**
At: **13.1 ft. 8/4 DAGS - Deposits Attached Grease**
Joint: **No 5%**

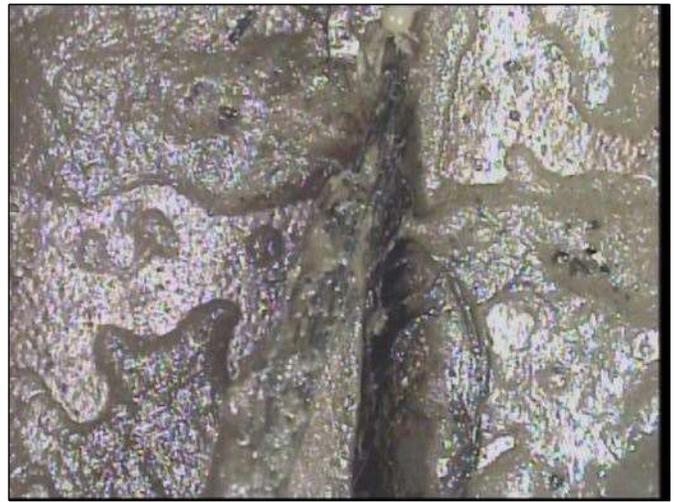


Photo: **SS08072-SS08073-20200624-094710-095031.JPG**
At: **17.2 ft. 3/4 RFJ - Roots Fine Joint**
Joint: **Yes**



Photo: **SS08072-SS08073-20200624-094710-095228.JPG**
At: **27.8 ft. 5/7 DAGS - Deposits Attached Grease**
Joint: **No 5%**



Photo: **SS08072-SS08073-20200624-094710-095203.JPG**
At: **27.8 ft. MSA - Miscellaneous Survey Abandoned**
Joint: **No REDO HEADER NOT ON SCREEN**

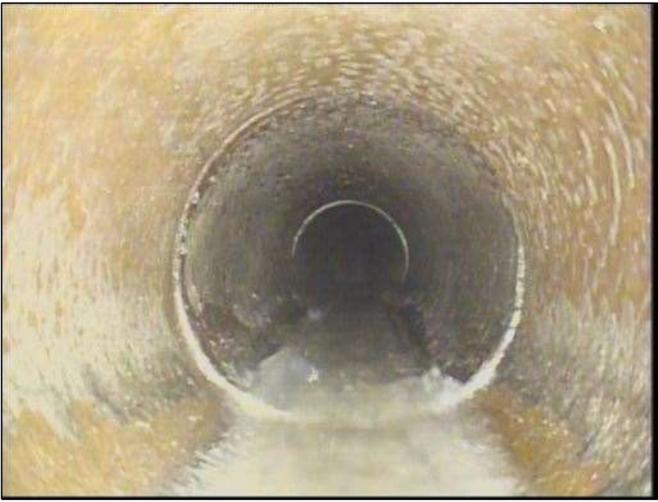


Photo: **SS08072-SS08073-20200624-094710-095231.JPG**

At: **27.8 ft. 8/4 DAGS - Deposits Attached Grease**

Joint: **No 5 %**



NWMCC INSPECTION REPORT

PACP Rating Description

<p><u>1:</u> Excellent Condition</p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u> Good Condition</p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u> Fair Condition</p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u> Poor Condition</p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u> Immediate Attention</p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

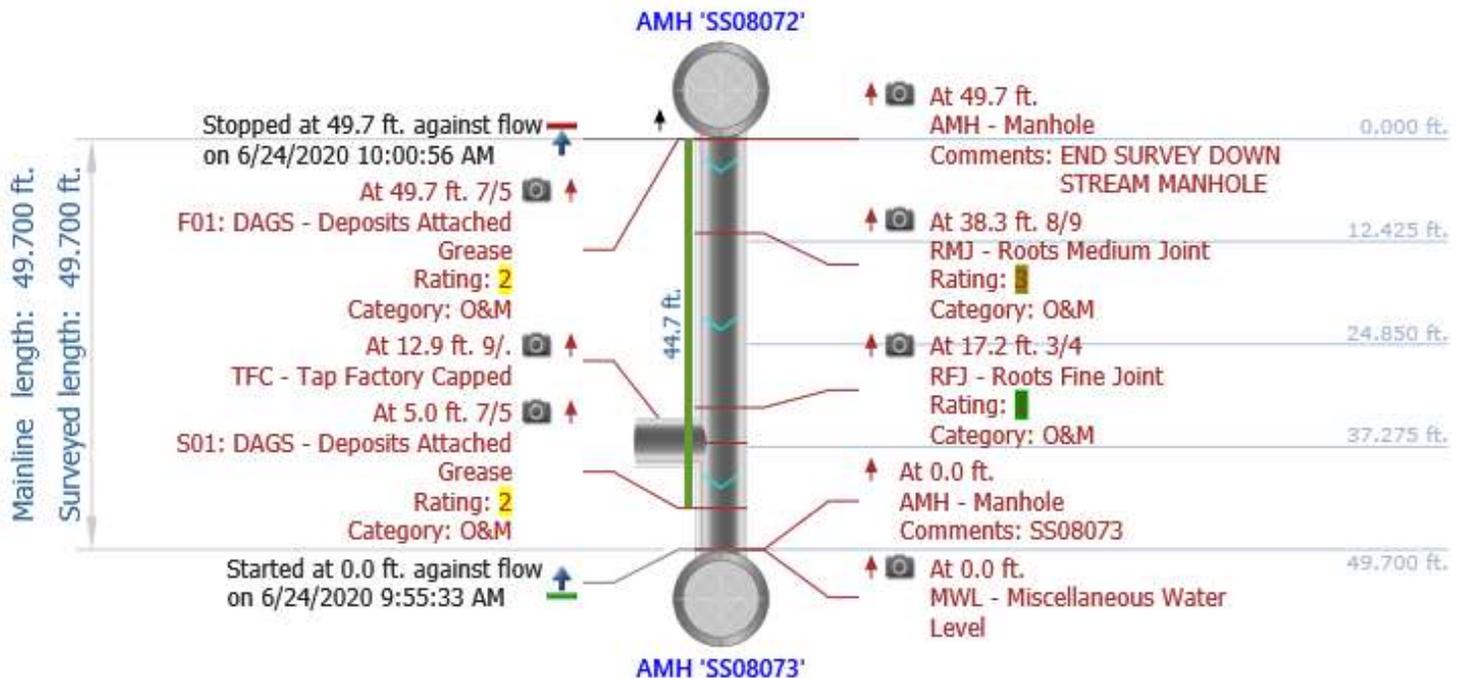


NWMCC INSPECTION REPORT

Start date/time: 20200624 09:55	Weather: Dry - No precipitation during survey	Surveyed by: B.GROM	Certificate number: 1234	Pipe segment ref.: SM07737.	
Owner:	Customer:	Pre-cleaning: No Pre-Cleaning	Date cleaned:	Project name: WEST05-65	
City: WORCESTER MA	Street: GARRISON AVE	Location code: Easement/Right of way	Pipe use: Sanitary Sewage Pipe	Drainage area:	Flow control: Not Controlled
Upstream MH No: SS08072	Downstream MH No: SS08073	Direction: U	Total length: 49.700 ft.	Length surveyed: 49.700 ft.	
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Vitrified Clay Pipe	LateralsCounter:	Additional info:

Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	1	22	3129	2.0	22	2.0	3.1	
2	0	0				0	18							
3	0	0				0	3							
4	0	0				0	0							
5	0	0				0	0							



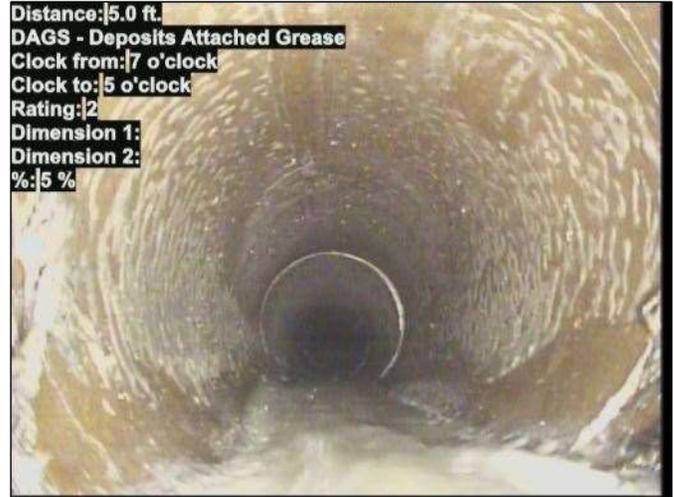
NWMCC INSPECTION REPORT

Inspection Photos

City: WORCESTER MA	Street: GARRISON AVE	Start date/time: 20200624 09:55	Pipe segment ref.: SM07737.
------------------------------	--------------------------------	---	---------------------------------------



Distance: 0.0 ft.
MWL - Miscellaneous Water Level
Clock from:
Clock to:
Rating:
Dimension 1:
Dimension 2:
%: 5 %
Photo: SS08072-SS08073-20200624-095533-095534.JPG
At: 0 ft. MWL - Miscellaneous Water Level
Joint: No 5 %



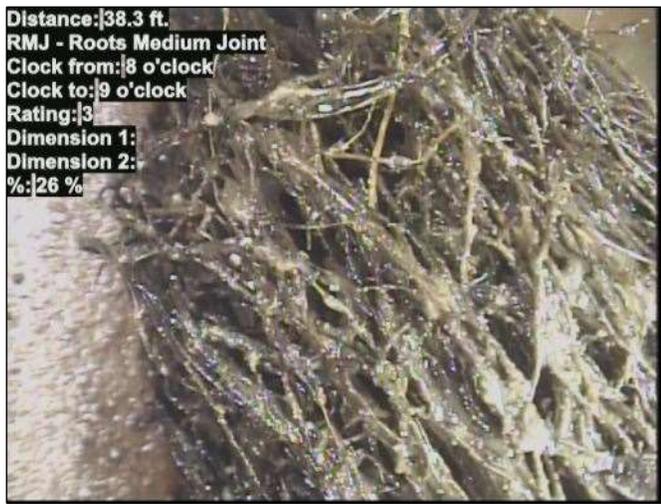
Distance: 5.0 ft.
DAGS - Deposits Attached Grease
Clock from: 7 o'clock
Clock to: 5 o'clock
Rating: 2
Dimension 1:
Dimension 2:
%: 5 %
Photo: SS08072-SS08073-20200624-095533-095627.JPG
At: 5 ft. 7/5 DAGS - Deposits Attached Grease
Joint: No 5 %



Distance: 12.9 ft.
TFC - Tap Factory Capped
Clock from: 9 o'clock
Clock to:
Rating:
Dimension 1: 6
Dimension 2:
%:
Photo: SS08072-SS08073-20200624-095533-095724.JPG
At: 12.9 ft. 9/. TFC - Tap Factory Capped
Joint: Yes



Distance: 17.2 ft.
RFJ - Roots Fine Joint
Clock from: 3 o'clock
Clock to: 4 o'clock
Rating: 1
Dimension 1:
Dimension 2:
%:
Photo: SS08072-SS08073-20200624-095533-095752.JPG
At: 17.2 ft. 3/4 RFJ - Roots Fine Joint
Joint: Yes



Distance: 38.3 ft.
RMJ - Roots Medium Joint
Clock from: 8 o'clock
Clock to: 9 o'clock
Rating: 3
Dimension 1:
Dimension 2:
%: 26 %

Photo: SS08072-SS08073-20200624-095533-095922.JPG
At: 38.3 ft. 8/9 RMJ - Roots Medium Joint
Joint: Yes 26 %



Distance: 49.7 ft.
DAGS - Deposits Attached Grease
Clock from: 7 o'clock
Clock to: 5 o'clock
Rating: 2
Dimension 1:
Dimension 2:
%: 5 %

Photo: SS08072-SS08073-20200624-095533-100028.JPG
At: 49.7 ft. 7/5 DAGS - Deposits Attached Grease
Joint: No 5 %



Distance: 49.7 ft.
AMH - Manhole
Clock from:
Clock to:
Rating:
Dimension 1:
Dimension 2:
%:

END SURVEY DOWN STREAM MANHOLE

Photo: SS08072-SS08073-20200624-095533-100031.JPG
At: 49.7 ft. AMH - Manhole
Joint: No END SURVEY DOWN STREAM MANHOLE



NWMCC INSPECTION REPORT

PACP Rating Description

<p><u>1:</u> Excellent Condition</p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u> Good Condition</p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u> Fair Condition</p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u> Poor Condition</p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u> Immediate Attention</p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

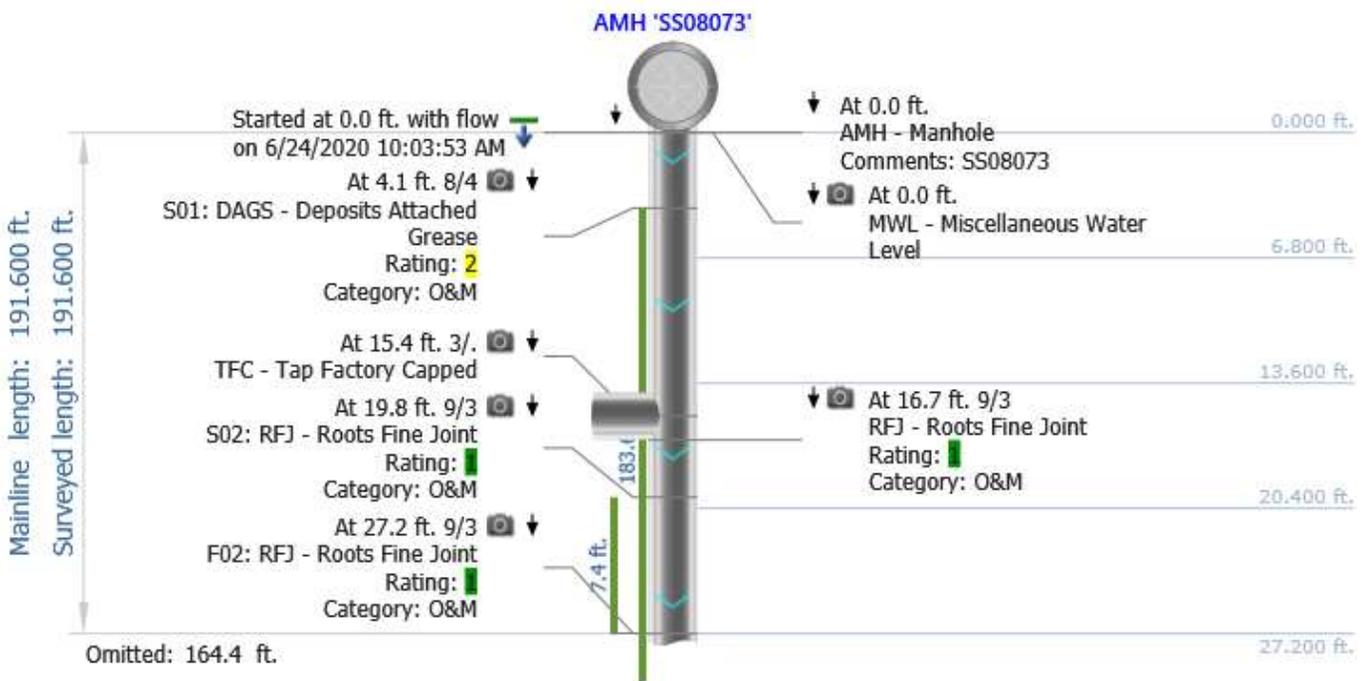


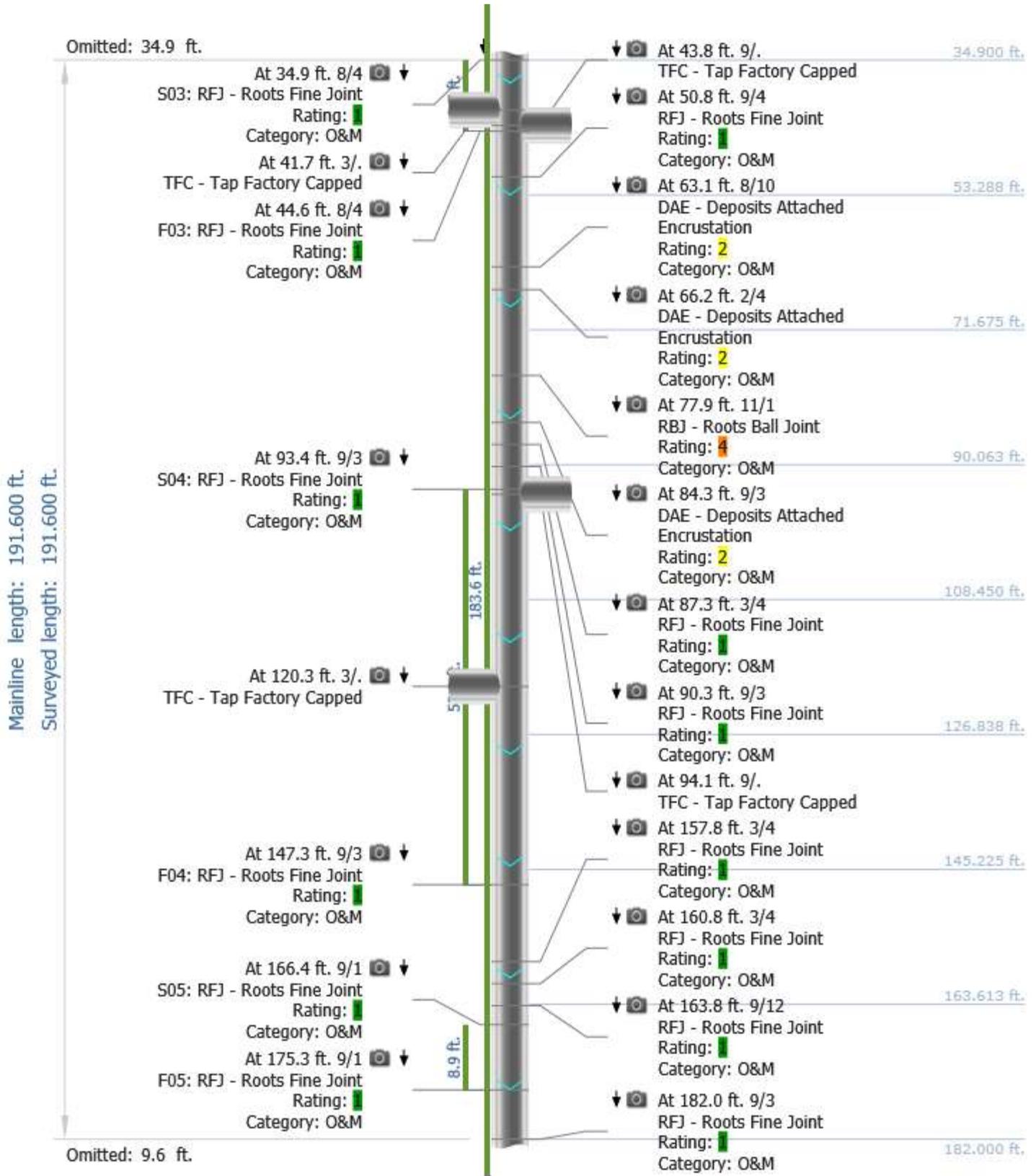
NWMCC INSPECTION REPORT

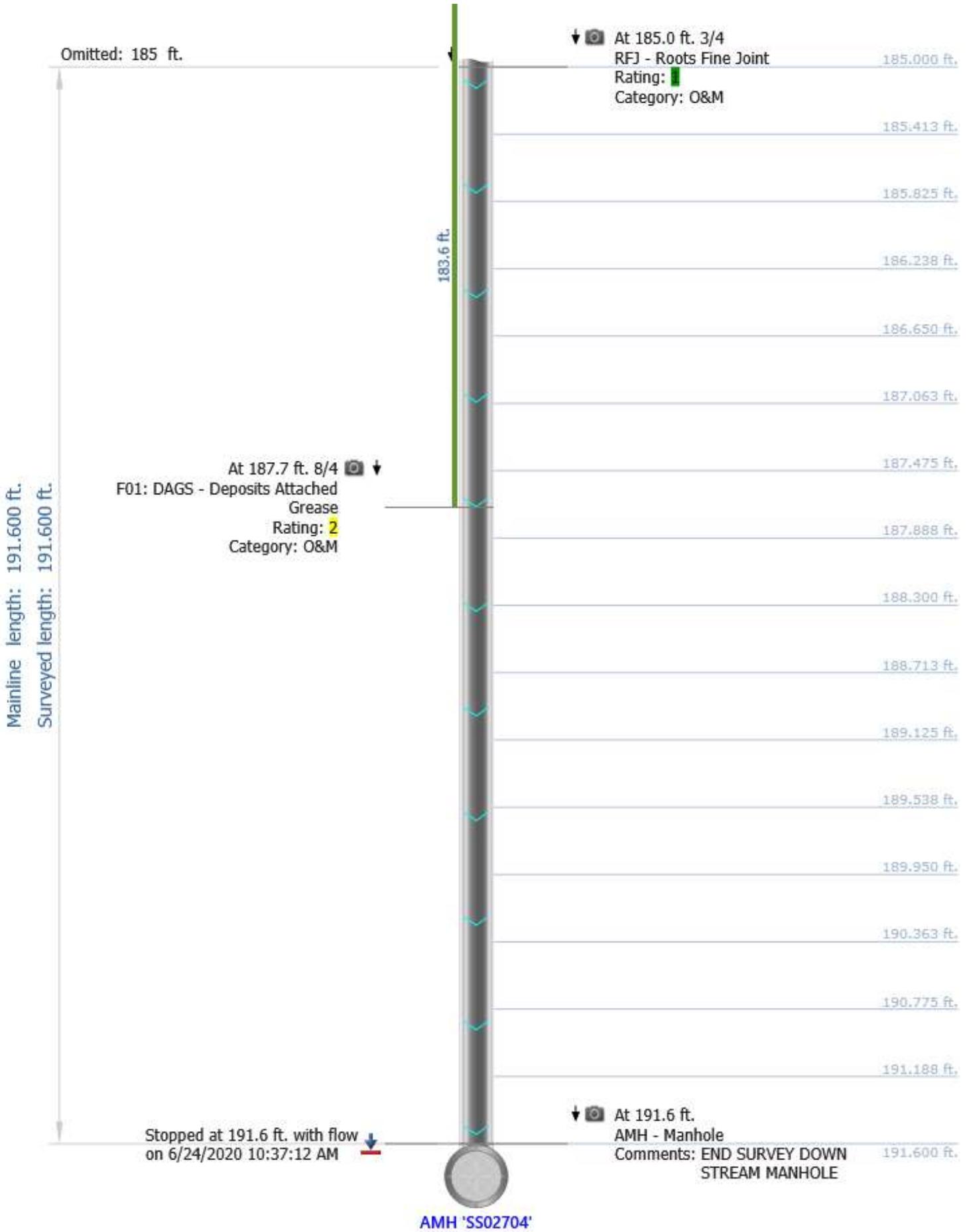
Start date/time: 20200624 10:03	Weather: Dry - No precipitation during survey	Surveyed by: B.GROM	Certificate number: 1234	Pipe segment ref.: SM07738	
Owner:	Customer:	Pre-cleaning: No Pre-Cleaning	Date cleaned:	Project name: WEST05-65	
City: WORCESTER MA	Street: GARRISON AVE	Location code: Easement/Right of way	Pipe use: Sanitary Sewage Pipe	Drainage area:	Flow control: Not Controlled
Upstream MH No: SS08073	Downstream MH No: SS02704	Direction: D	Total length: 191.600 ft.	Length surveyed: 191.600 ft.	
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Vitrified Clay Pipe	LateralsCounter:	Additional info:

Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	25	109	412G	1.7	109	1.7	4.1	
2	0	0				0	80							
3	0	0				0	0							
4	0	0				0	4							
5	0	0				0	0							







NWMCC INSPECTION REPORT

Inspection Photos

City: WORCESTER MA	Street: GARRISON AVE	Start date/time: 20200624 10:03	Pipe segment ref.: SM07738
------------------------------	--------------------------------	---	--------------------------------------



Distance: 0.0 ft.
MWL - Miscellaneous Water Level
Clock from:
Clock to:
Rating:
Dimension 1:
Dimension 2:
%: 5 %
Photo: SS08073-SS02704-20200624-100353-100354.JPG
At: 0 ft. MWL - Miscellaneous Water Level
Joint: No 5 %



Distance: 4.1 ft.
DAGS - Deposits Attached Grease
Clock from: 8 o'clock
Clock to: 4 o'clock
Rating: 2
Dimension 1:
Dimension 2:
%: 5 %
Photo: SS08073-SS02704-20200624-100353-101436.JPG
At: 4.1 ft. 8/4 DAGS - Deposits Attached Grease
Joint: No 5 %



Distance: 15.4 ft.
TFC - Tap Factory Capped
Clock from: 3 o'clock
Clock to:
Rating:
Dimension 1: 6
Dimension 2:
%:
Photo: SS08073-SS02704-20200624-100353-101555.JPG
At: 15.4 ft. 3/. TFC - Tap Factory Capped
Joint: Yes



Distance: 16.7 ft.
RFJ - Roots Fine Joint
Clock from: 9 o'clock
Clock to: 3 o'clock
Rating: 1
Dimension 1:
Dimension 2:
%:
Photo: SS08073-SS02704-20200624-100353-101615.JPG
At: 16.7 ft. 9/3 RFJ - Roots Fine Joint
Joint: Yes



Photo: SS08073-SS02704-20200624-100353-101649_1.JPG
At: 19.8 ft. 9/3 RFJ - Roots Fine Joint
Joint: Yes



Photo: SS08073-SS02704-20200624-100353-101649.JPG
At: 19.8 ft. 9/3 RFJ - Roots Fine Joint
Joint: Yes

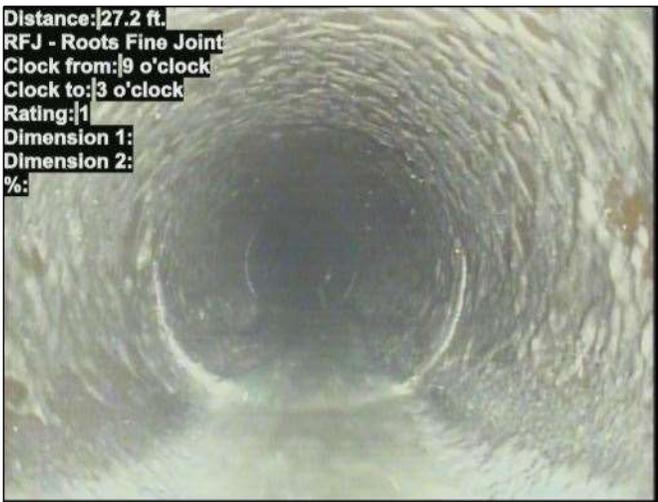


Photo: SS08073-SS02704-20200624-100353-101747.JPG
At: 27.2 ft. 9/3 RFJ - Roots Fine Joint
Joint: Yes



Photo: SS08073-SS02704-20200624-100353-101828_2.JPG
At: 34.9 ft. 8/4 RFJ - Roots Fine Joint
Joint: Yes



Photo: SS08073-SS02704-20200624-100353-101828_1.JPG
At: 34.9 ft. 8/4 RFJ - Roots Fine Joint
Joint: Yes

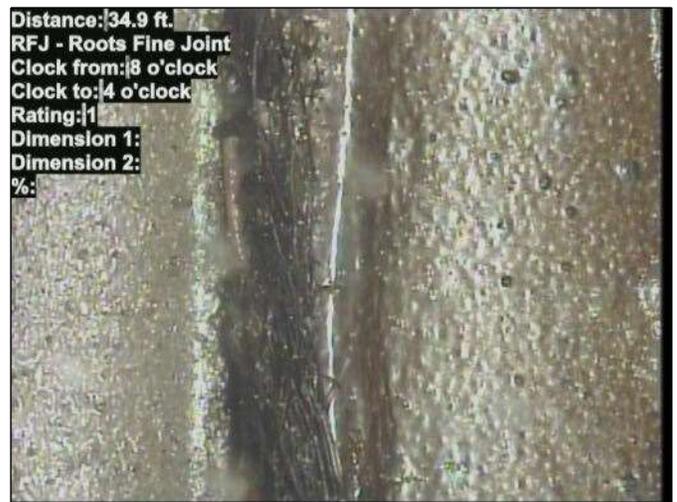


Photo: SS08073-SS02704-20200624-100353-101828.JPG
At: 34.9 ft. 8/4 RFJ - Roots Fine Joint
Joint: Yes



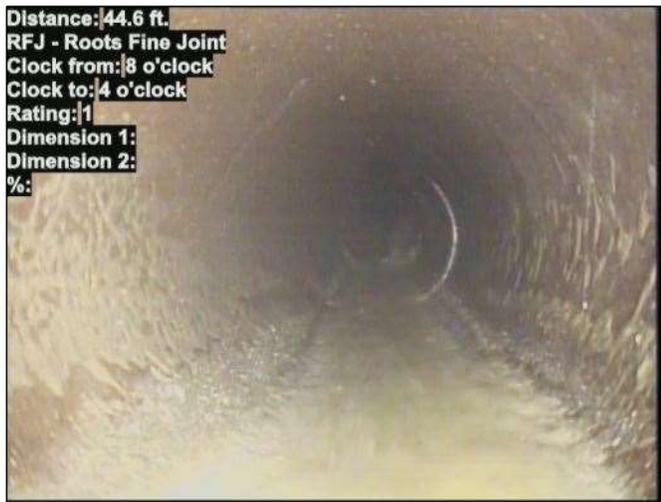
Distance: 41.7 ft.
TFC - Tap Factory Capped
Clock from: 3 o'clock
Clock to:
Rating:
Dimension 1: 6
Dimension 2:
%:

Photo: SS08073-SS02704-20200624-100353-101911.JPG
At: 41.7 ft. 3/. TFC - Tap Factory Capped
Joint: Yes



Distance: 43.8 ft.
TFC - Tap Factory Capped
Clock from: 9 o'clock
Clock to:
Rating:
Dimension 1: 6
Dimension 2:
%:

Photo: SS08073-SS02704-20200624-100353-101933.JPG
At: 43.8 ft. 9/. TFC - Tap Factory Capped
Joint: Yes



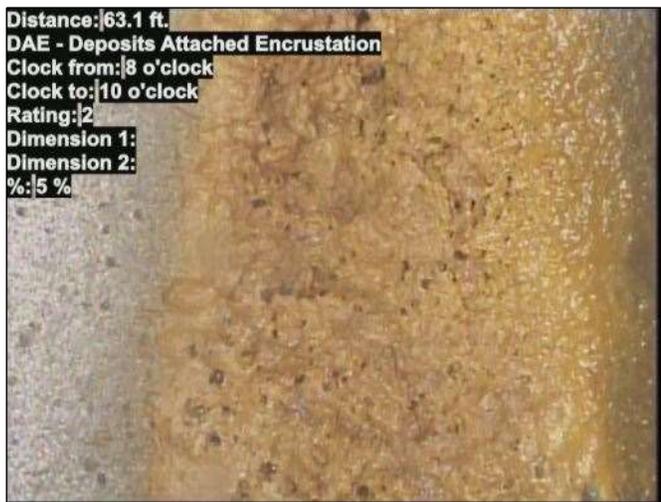
Distance: 44.6 ft.
RFJ - Roots Fine Joint
Clock from: 8 o'clock
Clock to: 4 o'clock
Rating: 1
Dimension 1:
Dimension 2:
%:

Photo: SS08073-SS02704-20200624-100353-101950.JPG
At: 44.6 ft. 8/4 RFJ - Roots Fine Joint
Joint: Yes



Distance: 50.8 ft.
RFJ - Roots Fine Joint
Clock from: 9 o'clock
Clock to: 4 o'clock
Rating: 1
Dimension 1:
Dimension 2:
%:

Photo: SS08073-SS02704-20200624-100353-102027.JPG
At: 50.8 ft. 9/4 RFJ - Roots Fine Joint
Joint: Yes



Distance: 63.1 ft.
DAE - Deposits Attached Encrustation
Clock from: 8 o'clock
Clock to: 10 o'clock
Rating: 2
Dimension 1:
Dimension 2:
%: 5 %

Photo: SS08073-SS02704-20200624-100353-102138.JPG
At: 63.1 ft. 8/10 DAE - Deposits Attached Encrustation
Joint: Yes 5 %



Distance: 66.2 ft.
DAE - Deposits Attached Encrustation
Clock from: 2 o'clock
Clock to: 4 o'clock
Rating: 2
Dimension 1:
Dimension 2:
%: 5 %

Photo: SS08073-SS02704-20200624-100353-102233.JPG
At: 66.2 ft. 2/4 DAE - Deposits Attached Encrustation
Joint: Yes 5 %



Distance: 77.9 ft.
RBJ - Roots Ball Joint
Clock from: 11 o'clock
Clock to: 1 o'clock
Rating: 4
Dimension 1:
Dimension 2:
%: 55 %

Photo: SS08073-SS02704-20200624-100353-102333.JPG
At: 77.9 ft. 11/1 RBJ - Roots Ball Joint
Joint: Yes 55 %



Distance: 84.3 ft.
DAE - Deposits Attached Encrustation
Clock from: 9 o'clock
Clock to: 3 o'clock
Rating: 2
Dimension 1:
Dimension 2:
%: 5 %

Photo: SS08073-SS02704-20200624-100353-102449.JPG
At: 84.3 ft. 9/3 DAE - Deposits Attached Encrustation
Joint: Yes 5 %



Distance: 87.3 ft.
RFJ - Roots Fine Joint
Clock from: 3 o'clock
Clock to: 4 o'clock
Rating: 1
Dimension 1:
Dimension 2:
%:

Photo: SS08073-SS02704-20200624-100353-102516.JPG
At: 87.3 ft. 3/4 RFJ - Roots Fine Joint
Joint: Yes



Distance: 90.3 ft.
RFJ - Roots Fine Joint
Clock from: 9 o'clock
Clock to: 3 o'clock
Rating: 1
Dimension 1:
Dimension 2:
%:

Photo: SS08073-SS02704-20200624-100353-102542.JPG
At: 90.3 ft. 9/3 RFJ - Roots Fine Joint
Joint: Yes



Distance: 93.4 ft.
RFJ - Roots Fine Joint
Clock from: 9 o'clock
Clock to: 3 o'clock
Rating: 1
Dimension 1:
Dimension 2:
%:

Photo: SS08073-SS02704-20200624-100353-102606.JPG
At: 93.4 ft. 9/3 RFJ - Roots Fine Joint
Joint: Yes



6/24/2020 10:28:42 AM
Upstream MH No: AMH 'SS08073'
Downstream MH No: AMH 'SS02704'

Photo: SS08073-SS02704-20200624-100353-102622_7.JPG
At: 94.1 ft. 9/ TFC - Tap Factory Capped
Joint: Yes



Photo: SS08073-SS02704-20200624-100353-102622_6.JPG
At: 94.1 ft. 9/. TFC - Tap Factory Capped
Joint: Yes



Photo: SS08073-SS02704-20200624-100353-102622_5.JPG
At: 94.1 ft. 9/. TFC - Tap Factory Capped
Joint: Yes



Photo: SS08073-SS02704-20200624-100353-102622_4.JPG
At: 94.1 ft. 9/. TFC - Tap Factory Capped
Joint: Yes



Photo: SS08073-SS02704-20200624-100353-102622_3.JPG
At: 94.1 ft. 9/. TFC - Tap Factory Capped
Joint: Yes

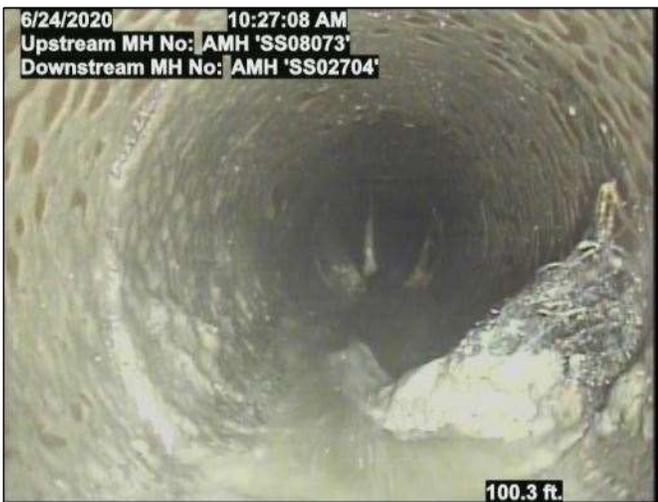


Photo: SS08073-SS02704-20200624-100353-102622_2.JPG
At: 94.1 ft. 9/. TFC - Tap Factory Capped
Joint: Yes

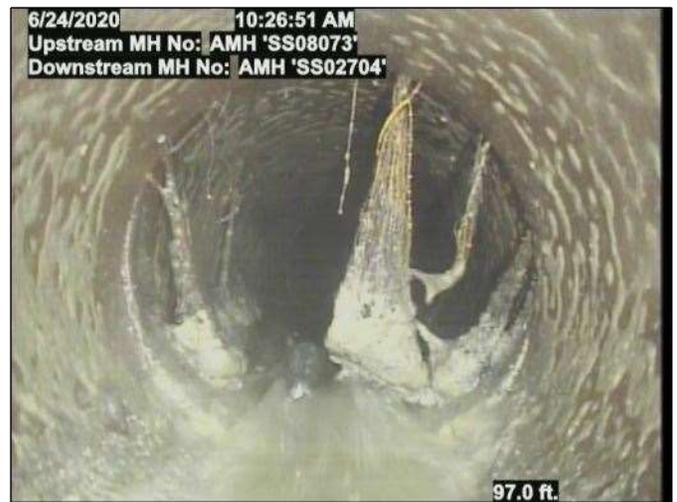


Photo: SS08073-SS02704-20200624-100353-102622_1.JPG
At: 94.1 ft. 9/. TFC - Tap Factory Capped
Joint: Yes



Distance: 94.1 ft.
TFC - Tap Factory Capped
Clock from: 9 o'clock
Clock to:
Rating:
Dimension 1: 6
Dimension 2:
%:

Photo: SS08073-SS02704-20200624-100353-102622.JPG
At: 94.1 ft. 9/. TFC - Tap Factory Capped
Joint: Yes



6/24/2020 10:31:05 AM
Upstream MH No: AMH 'SS08073'
Downstream MH No: AMH 'SS02704'

Photo: SS08073-SS02704-20200624-100353-102854_6.JPG
At: 120.3 ft. 3/. TFC - Tap Factory Capped
Joint: Yes



6/24/2020 10:30:56 AM
Upstream MH No: AMH 'SS08073'
Downstream MH No: AMH 'SS02704'

Photo: SS08073-SS02704-20200624-100353-102854_5.JPG
At: 120.3 ft. 3/. TFC - Tap Factory Capped
Joint: Yes



6/24/2020 10:30:05 AM
Upstream MH No: AMH 'SS08073'
Downstream MH No: AMH 'SS02704'

Photo: SS08073-SS02704-20200624-100353-102854_4.JPG
At: 120.3 ft. 3/. TFC - Tap Factory Capped
Joint: Yes



6/24/2020 10:29:55 AM
Upstream MH No: AMH 'SS08073'
Downstream MH No: AMH 'SS02704'

Photo: SS08073-SS02704-20200624-100353-102854_3.JPG
At: 120.3 ft. 3/. TFC - Tap Factory Capped
Joint: Yes



6/24/2020 10:29:16 AM
Upstream MH No: AMH 'SS08073'
Downstream MH No: AMH 'SS02704'

Photo: SS08073-SS02704-20200624-100353-102854_2.JPG
At: 120.3 ft. 3/. TFC - Tap Factory Capped
Joint: Yes



Distance: 120.3 ft.
TFC - Tap Factory Capped
Clock from: 3 o'clock
Clock to:
Rating:
Dimension 1: 6
Dimension 2:
%:

Photo: SS08073-SS02704-20200624-100353-102854_1.JPG
At: 120.3 ft. 3/. TFC - Tap Factory Capped
Joint: Yes



Distance: 120.3 ft.
TFC - Tap Factory Capped
Clock from: 3 o'clock
Clock to:
Rating:
Dimension 1: 6
Dimension 2:
%:

Photo: SS08073-SS02704-20200624-100353-102854.JPG
At: 120.3 ft. 3/. TFC - Tap Factory Capped
Joint: Yes



Distance: 147.3 ft.
RFJ - Roots Fine Joint
Clock from: 9 o'clock
Clock to: 3 o'clock
Rating: 1
Dimension 1:
Dimension 2:
%:

Photo: SS08073-SS02704-20200624-100353-103120.JPG
At: 147.3 ft. 9/3 RFJ - Roots Fine Joint
Joint: Yes



Distance: 157.8 ft.
RFJ - Roots Fine Joint
Clock from: 3 o'clock
Clock to: 4 o'clock
Rating: 1
Dimension 1:
Dimension 2:
%:

Photo: SS08073-SS02704-20200624-100353-103210.JPG
At: 157.8 ft. 3/4 RFJ - Roots Fine Joint
Joint: Yes



Distance: 160.8 ft.
RFJ - Roots Fine Joint
Clock from: 3 o'clock
Clock to: 4 o'clock
Rating: 1
Dimension 1:
Dimension 2:
%:

Photo: SS08073-SS02704-20200624-100353-103237.JPG
At: 160.8 ft. 3/4 RFJ - Roots Fine Joint
Joint: Yes

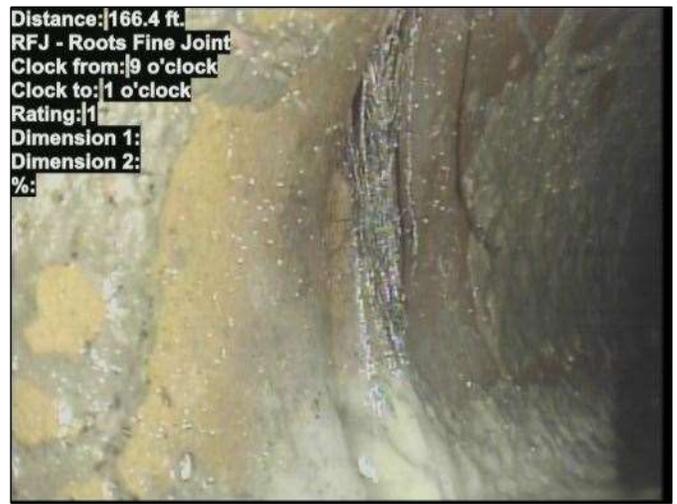


Distance: 163.8 ft.
RFJ - Roots Fine Joint
Clock from: 9 o'clock
Clock to: 12 o'clock
Rating: 1
Dimension 1:
Dimension 2:
%:

Photo: SS08073-SS02704-20200624-100353-103302.JPG
At: 163.8 ft. RFJ - Roots Fine Joint
9/12
Joint: Yes



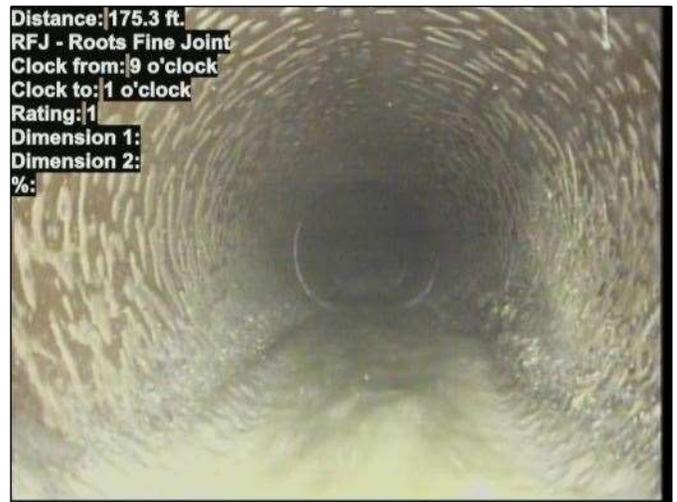
6/24/2020 10:33:54 AM
Upstream MH No: AMH 'SS08073'
Downstream MH No: AMH 'SS02704'
Photo: SS08073-SS02704-20200624-100353-103328_2.JPG
At: 166.4 ft. 9/1 RFJ - Roots Fine Joint
Joint: Yes



Distance: 166.4 ft.
RFJ - Roots Fine Joint
Clock from: 9 o'clock
Clock to: 1 o'clock
Rating: 1
Dimension 1:
Dimension 2:
%:
Photo: SS08073-SS02704-20200624-100353-103328_1.JPG
At: 166.4 ft. 9/1 RFJ - Roots Fine Joint
Joint: Yes



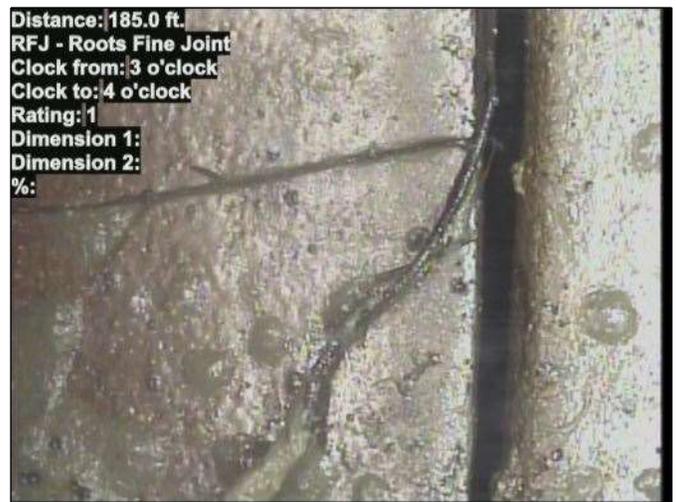
Distance: 166.4 ft.
RFJ - Roots Fine Joint
Clock from: 9 o'clock
Clock to: 1 o'clock
Rating: 1
Dimension 1:
Dimension 2:
%:
Photo: SS08073-SS02704-20200624-100353-103328.JPG
At: 166.4 ft. 9/1 RFJ - Roots Fine Joint
Joint: Yes



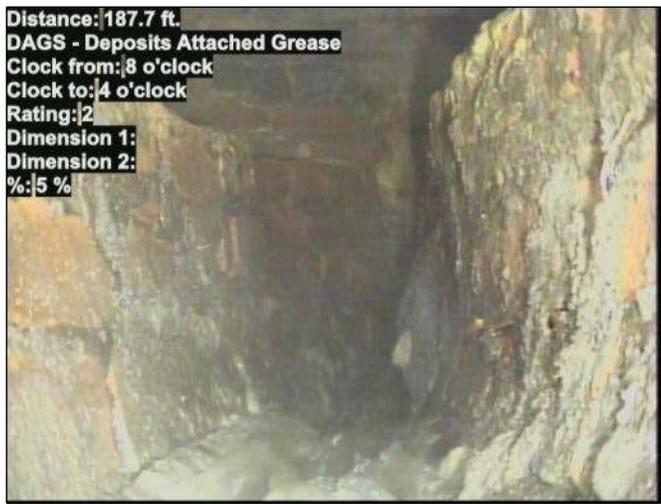
Distance: 175.3 ft.
RFJ - Roots Fine Joint
Clock from: 9 o'clock
Clock to: 1 o'clock
Rating: 1
Dimension 1:
Dimension 2:
%:
Photo: SS08073-SS02704-20200624-100353-103427.JPG
At: 175.3 ft. 9/1 RFJ - Roots Fine Joint
Joint: Yes



Distance: 182.0 ft.
RFJ - Roots Fine Joint
Clock from: 9 o'clock
Clock to: 3 o'clock
Rating: 1
Dimension 1:
Dimension 2:
%:
Photo: SS08073-SS02704-20200624-100353-103500.JPG
At: 182 ft. 9/3 RFJ - Roots Fine Joint
Joint: Yes



Distance: 185.0 ft.
RFJ - Roots Fine Joint
Clock from: 3 o'clock
Clock to: 4 o'clock
Rating: 1
Dimension 1:
Dimension 2:
%:
Photo: SS08073-SS02704-20200624-100353-103527.JPG
At: 185 ft. 3/4 RFJ - Roots Fine Joint
Joint: Yes



Distance: 187.7 ft.
DAGS - Deposits Attached Grease
Clock from: 8 o'clock
Clock to: 4 o'clock
Rating: 2
Dimension 1:
Dimension 2:
%: 5 %

Photo: SS08073-SS02704-20200624-100353-103551.JPG
At: 187.7 ft. 8/4 DAGS - Deposits Attached Grease
Joint: No 5 %



Distance: 191.6 ft.
AMH - Manhole
Clock from:
Clock to:
Rating:
Dimension 1:
Dimension 2:
%:
END SURVEY DOWN STREAM MANHOLE

Photo: SS08073-SS02704-20200624-100353-103650.JPG
At: 191.6 ft. AMH - Manhole
Joint: No END SURVEY DOWN STREAM MANHOLE



NWMCC INSPECTION REPORT

PACP Rating Description

<p><u>1:</u> Excellent Condition</p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u> Good Condition</p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u> Fair Condition</p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u> Poor Condition</p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u> Immediate Attention</p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

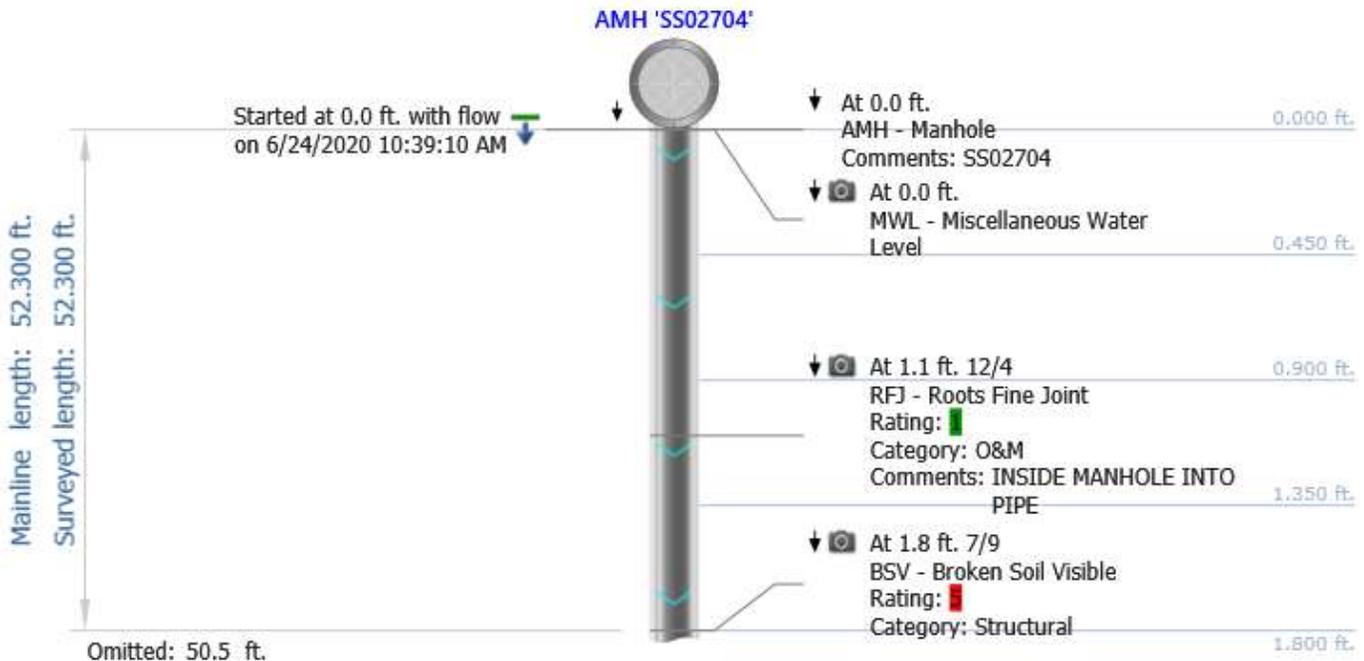


NWMCC INSPECTION REPORT

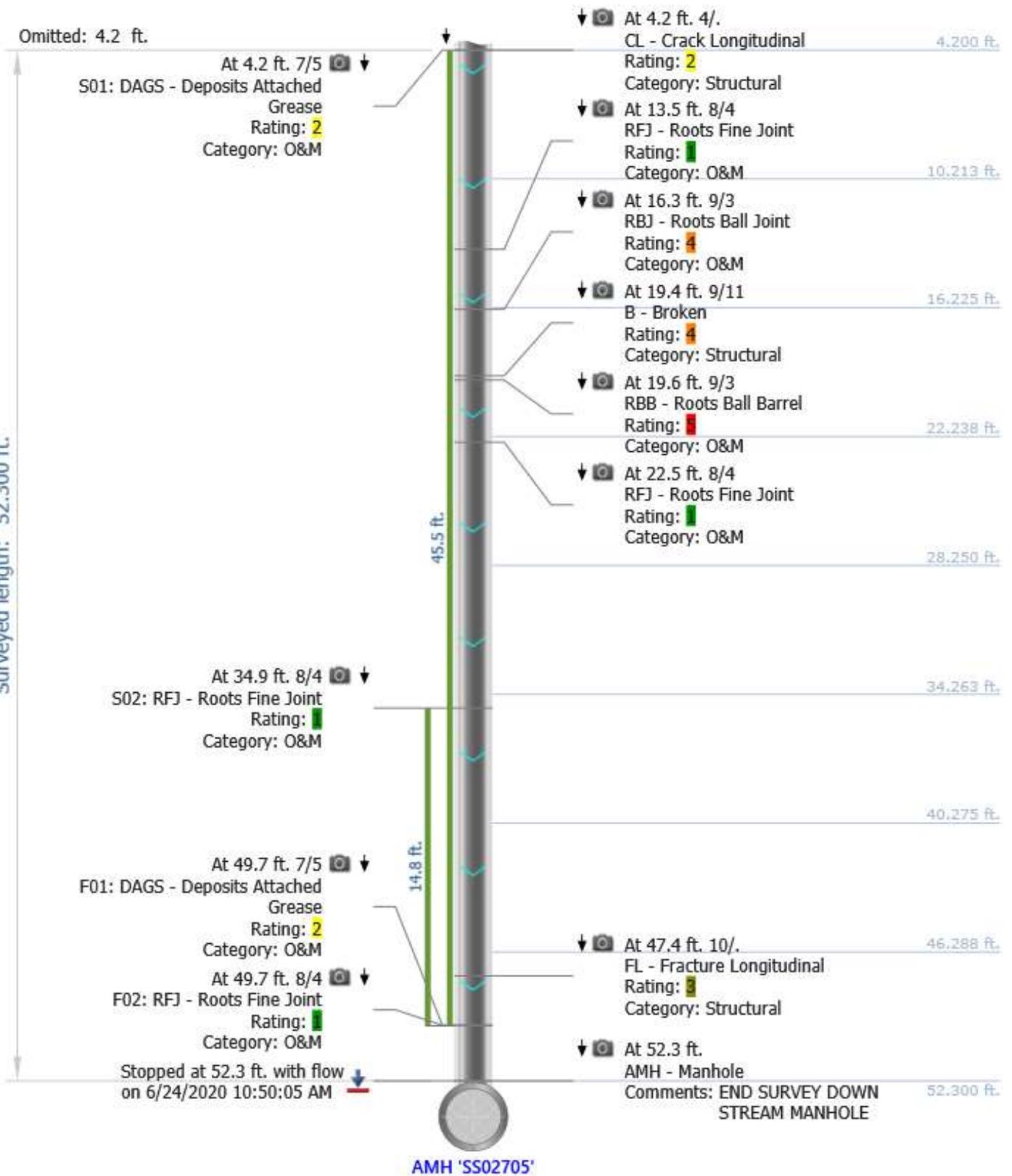
Start date/time: 20200624 10:39	Weather: Dry - No precipitation during survey	Surveyed by: B.GROM	Certificate number: 1234	Pipe segment ref.: SM07739	
Owner:	Customer:	Pre-cleaning: No Pre-Cleaning	Date cleaned:	Project name: WEST05-65	
City: WORCESTER MA	Street: GARRISON AVE	Location code: Easement/Right of way	Pipe use: Sanitary Sewage Pipe	Drainage area:	Flow control: Not Controlled
Upstream MH No: SS02704	Downstream MH No: SS02705	Direction: D	Total length: 52.300 ft.	Length surveyed: 52.300 ft.	
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Vitrified Clay Pipe	LateralsCounter:	Additional info:

Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	14	5141	3.5	0	6	33	5141	1.9	47	2.2	5.2	
2	0	2				0	18							
3	0	3				0	0							
4	0	4				0	4							
5	0	5				0	5							



Mainline length: 52.300 ft.
 Surveyed length: 52.300 ft.



NWMCC INSPECTION REPORT

Inspection Photos

City: WORCESTER MA	Street: GARRISON AVE	Start date/time: 20200624 10:39	Pipe segment ref.: SM07739
------------------------------	--------------------------------	---	--------------------------------------



Photo: SS02704-SS02705-20200624-103910-103911.JPG
At: 0 ft. MWL - Miscellaneous Water Level
Joint: No 5 %



Photo: SS02704-SS02705-20200624-103910-104018.JPG
At: 1.1 ft. 12/4 RFJ - Roots Fine Joint
Joint: Yes INSIDE MANHOLE INTO PIPE



Photo: SS02704-SS02705-20200624-103910-104041_3.JPG
At: 1.8 ft. 7/9 BSV - Broken Soil Visible
Joint: Yes



Photo: SS02704-SS02705-20200624-103910-104041_2.JPG
At: 1.8 ft. 7/9 BSV - Broken Soil Visible
Joint: Yes



Distance:|1.8 ft.
BSV - Broken Soil Visible
Clock from:|7 o'clock
Clock to:|9 o'clock
Rating:|5
Dimension 1:
Dimension 2:
%:

Photo: SS02704-SS02705-20200624-103910-104041_1.JPG
At: 1.8 ft. 7/9 BSV - Broken Soil Visible
Joint: Yes



Distance:|1.8 ft.
BSV - Broken Soil Visible
Clock from:|7 o'clock
Clock to:|9 o'clock
Rating:|5
Dimension 1:
Dimension 2:
%:

Photo: SS02704-SS02705-20200624-103910-104041.JPG
At: 1.8 ft. 7/9 BSV - Broken Soil Visible
Joint: Yes



Distance:|4.2 ft.
DAGS - Deposits Attached Grease
Clock from:|7 o'clock
Clock to:|5 o'clock
Rating:|2
Dimension 1:
Dimension 2:
%:|5 %

Photo: SS02704-SS02705-20200624-103910-104201.JPG
At: 4.2 ft. 7/5 DAGS - Deposits Attached Grease
Joint: No 5 %



Distance:|4.2 ft.
CL - Crack Longitudinal
Clock from:|4 o'clock
Clock to:
Rating:|2
Dimension 1:
Dimension 2:
%:

Photo: SS02704-SS02705-20200624-103910-104152.JPG
At: 4.2 ft. 4/. CL - Crack Longitudinal
Joint: Yes



Distance:|13.5 ft.
RFJ - Roots Fine Joint
Clock from:|8 o'clock
Clock to:|4 o'clock
Rating:|1
Dimension 1:
Dimension 2:
%:

Photo: SS02704-SS02705-20200624-103910-104313.JPG
At: 13.5 ft. 8/4 RFJ - Roots Fine Joint
Joint: Yes



Distance:|16.3 ft.
RBJ - Roots Ball Joint
Clock from:|9 o'clock
Clock to:|3 o'clock
Rating:|4
Dimension 1:
Dimension 2:
%:|55 %

Photo: SS02704-SS02705-20200624-103910-104339.JPG
At: 16.3 ft. 9/3 RBJ - Roots Ball Joint
Joint: Yes 55 %



Photo: SS02704-SS02705-20200624-103910-104422_1.JPG
At: 19.4 ft. 9/11 B - Broken
Joint: Yes



Photo: SS02704-SS02705-20200624-103910-104422.JPG
At: 19.4 ft. 9/11 B - Broken
Joint: Yes



Photo: SS02704-SS02705-20200624-103910-104452.JPG
At: 19.6 ft. 9/3 RBB - Roots Ball Barrel
Joint: No 55 %



Photo: SS02704-SS02705-20200624-103910-104534_1.JPG
At: 22.5 ft. 8/4 RFJ - Roots Fine Joint
Joint: Yes



Photo: SS02704-SS02705-20200624-103910-104534.JPG
At: 22.5 ft. 8/4 RFJ - Roots Fine Joint
Joint: Yes



Photo: SS02704-SS02705-20200624-103910-104700_3.JPG
At: 34.9 ft. 8/4 RFJ - Roots Fine Joint
Joint: Yes



Photo: SS02704-SS02705-20200624-103910-104700_2.JPG
At: 34.9 ft. 8/4 RFJ - Roots Fine Joint
Joint: Yes



Photo: SS02704-SS02705-20200624-103910-104700_1.JPG
At: 34.9 ft. 8/4 RFJ - Roots Fine Joint
Joint: Yes



Photo: SS02704-SS02705-20200624-103910-104700.JPG
At: 34.9 ft. 8/4 RFJ - Roots Fine Joint
Joint: Yes



Photo: SS02704-SS02705-20200624-103910-104841_1.JPG
At: 47.4 ft. 10/. FL - Fracture Longitudinal
Joint: Yes



Photo: SS02704-SS02705-20200624-103910-104841.JPG
At: 47.4 ft. 10/. FL - Fracture Longitudinal
Joint: Yes

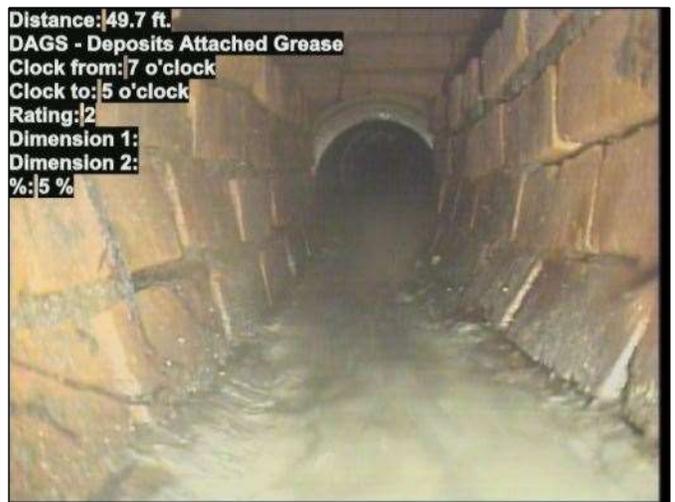
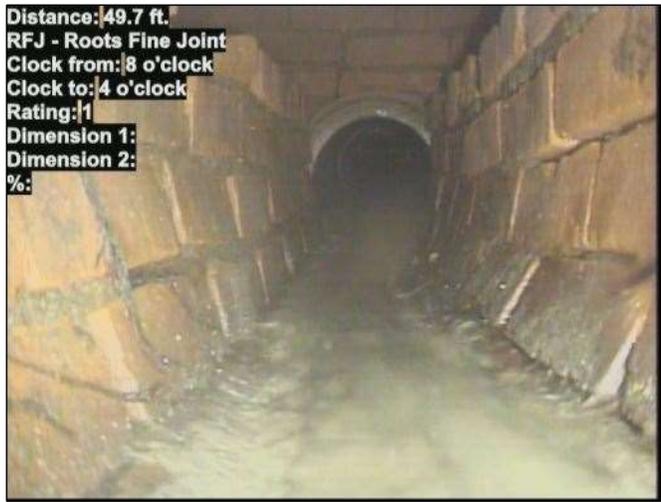


Photo: SS02704-SS02705-20200624-103910-104910.JPG
At: 49.7 ft. 7/5 DAGS - Deposits Attached Grease
Joint: No 5 %



Distance: 49.7 ft.
RFJ - Roots Fine Joint
Clock from: 8 o'clock
Clock to: 4 o'clock
Rating: 1
Dimension 1:
Dimension 2:
%:

Photo: SS02704-SS02705-20200624-103910-104916.JPG
At: 49.7 ft. 8/4 RFJ - Roots Fine Joint
Joint: Yes



Distance: 52.3 ft.
AMH - Manhole
Clock from:
Clock to:
Rating:
Dimension 1:
Dimension 2:
%:

END SURVEY DOWN STREAM MANHOLE

Photo: SS02704-SS02705-20200624-103910-104945.JPG
At: 52.3 ft. AMH - Manhole
Joint: No END SURVEY DOWN STREAM MANHOLE



NWMCC INSPECTION REPORT

PACP Rating Description

<p><u>1:</u> Excellent Condition</p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u> Good Condition</p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u> Fair Condition</p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u> Poor Condition</p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u> Immediate Attention</p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

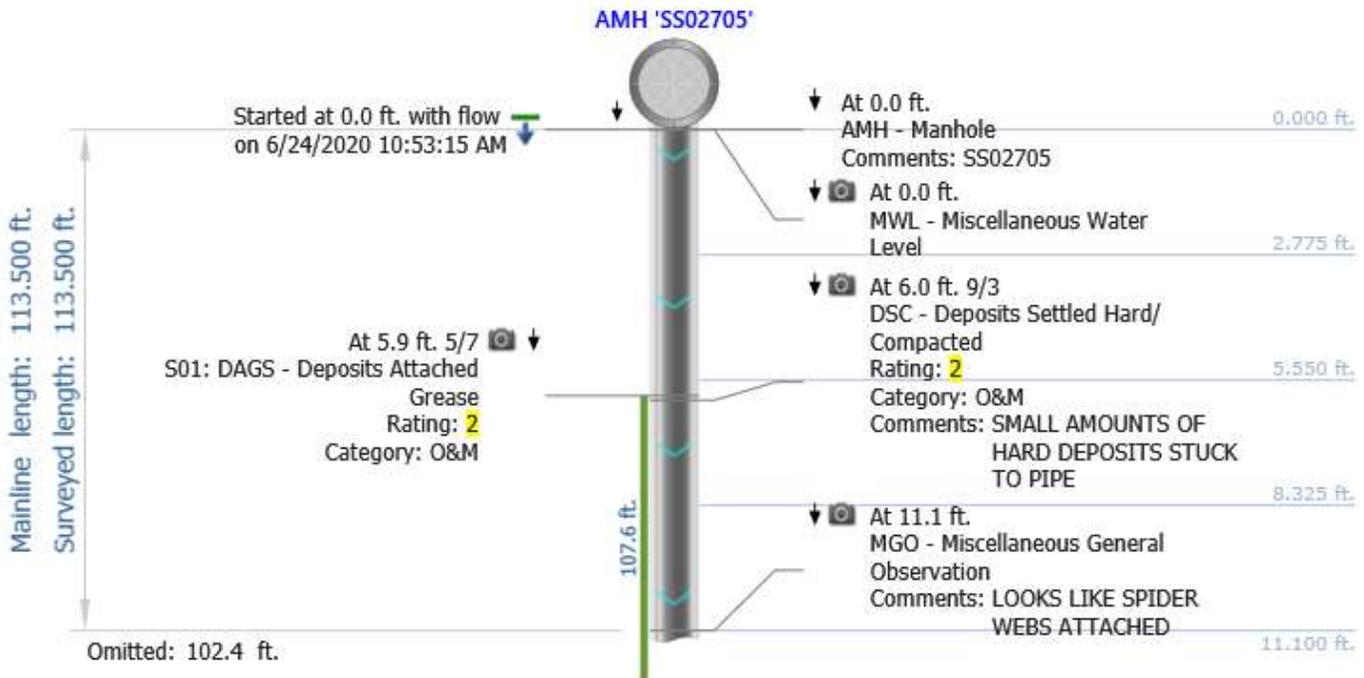


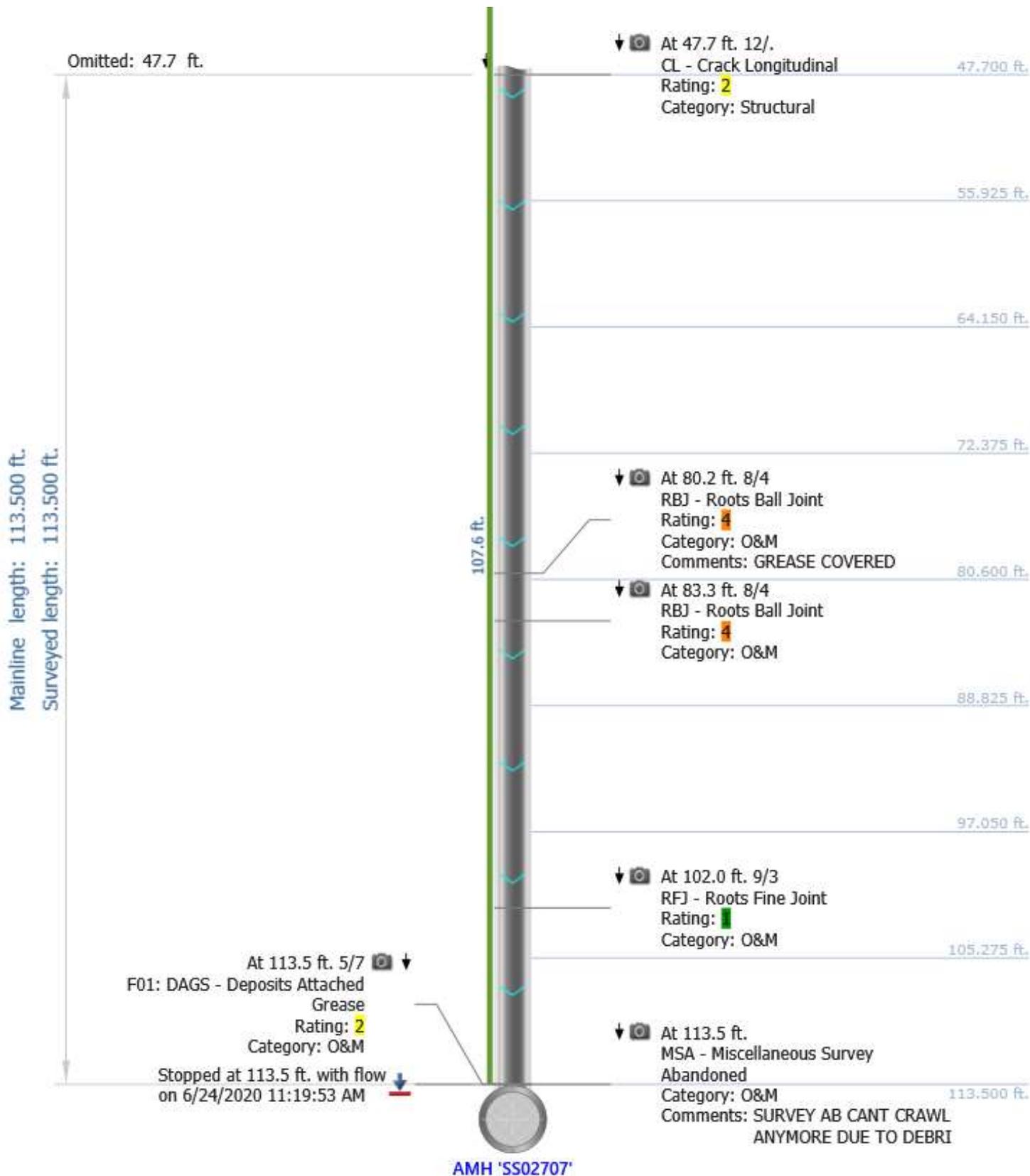
NWMCC INSPECTION REPORT

Start date/time: 20200624 10:53	Weather: Dry - No precipitation during survey	Surveyed by: B.GROM	Certificate number: 1234	Pipe segment ref.: SM07740	
Owner:	Customer:	Pre-cleaning: No Pre-Cleaning	Date cleaned:	Project name: WEST05-65	
City: WORCESTER CT	Street: GARRISON AVE	Location code: Easement/Right of way	Pipe use: Sanitary Sewage Pipe	Drainage area:	Flow control: Not Controlled
Upstream MH No: SS02705	Downstream MH No: SS02707	Direction: D	Total length: 113.500 ft.	Length surveyed: 113.500 ft.	
Purpose: Maintenance Related	Pipe joint length:	Height: 10 in.	Material: Vitrified Clay Pipe	LateralsCounter:	Additional info:

Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	2	2100	2.0	0	1	55	422C	2.1	57	2.1	4.2	
2	0	2				0	46							
3	0	0				0	0							
4	0	0				0	8							
5	0	0				0	0							





NWMCC INSPECTION REPORT

Inspection Photos

City: WORCESTER CT	Street: GARRISON AVE	Start date/time: 20200624 10:53	Pipe segment ref.: SM07740
------------------------------	--------------------------------	---	--------------------------------------



Photo: SS02705-SS02707-20200624-105315-105316.JPG
At: 0 ft. MWL - Miscellaneous Water Level
Joint: No 5 %

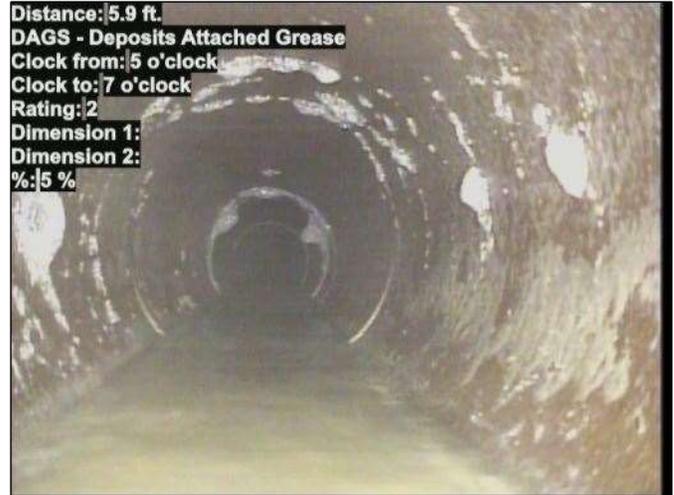


Photo: SS02705-SS02707-20200624-105315-105803.JPG
At: 5.9 ft. 5/7 DAGS - Deposits Attached Grease
Joint: No 5 %



Photo: SS02705-SS02707-20200624-105315-105815_1.JPG
At: 6 ft. 9/3 DSC - Deposits Settled Hard/Compacted
Joint: No 5 % SMALL AMOUNTS OF HARD DEPOSITS STUCK TO PIPE

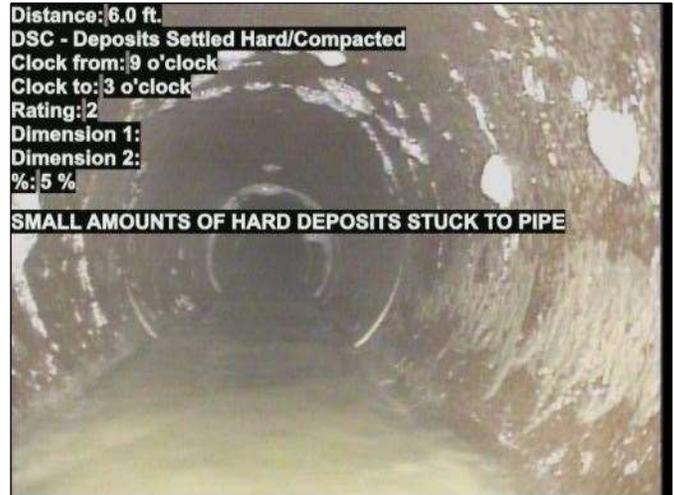


Photo: SS02705-SS02707-20200624-105315-105815.JPG
At: 6 ft. 9/3 DSC - Deposits Settled Hard/Compacted
Joint: No 5 % SMALL AMOUNTS OF HARD DEPOSITS STUCK TO PIPE



Distance: 11.1 ft.
MGO - Miscellaneous General Observation
Clock from:
Clock to:
Rating:
Dimension 1:
Dimension 2:
%:

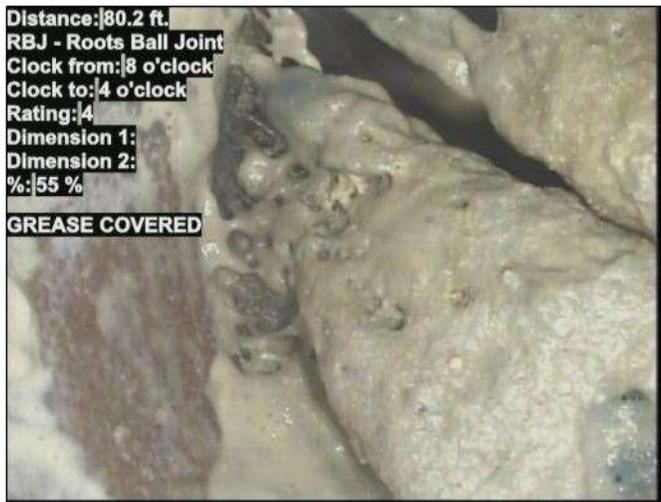
LOOKS LIKE SPIDER WEBS ATTACHED

Photo: SS02705-SS02707-20200624-105315-105912.JPG
At: 11.1 ft. MGO - Miscellaneous General Observation
Joint: No LOOKS LIKE SPIDER WEBS ATTACHED



Distance: 47.7 ft.
CL - Crack Longitudinal
Clock from: 12 o'clock
Clock to:
Rating: 2
Dimension 1:
Dimension 2:
%:

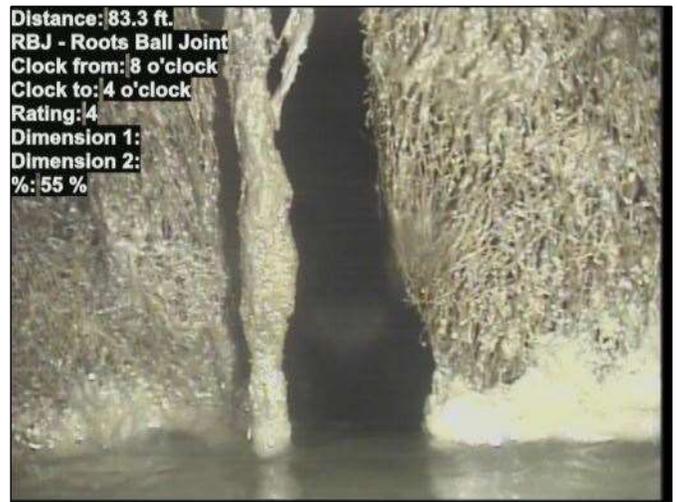
Photo: SS02705-SS02707-20200624-105315-110215.JPG
At: 47.7 ft. 12/ CL - Crack Longitudinal
Joint: Yes



Distance: 80.2 ft.
RBJ - Roots Ball Joint
Clock from: 8 o'clock
Clock to: 4 o'clock
Rating: 4
Dimension 1:
Dimension 2:
%: 55 %

GREASE COVERED

Photo: SS02705-SS02707-20200624-105315-110609.JPG
At: 80.2 ft. 8/4 RBJ - Roots Ball Joint
Joint: Yes 55 % GREASE COVERED



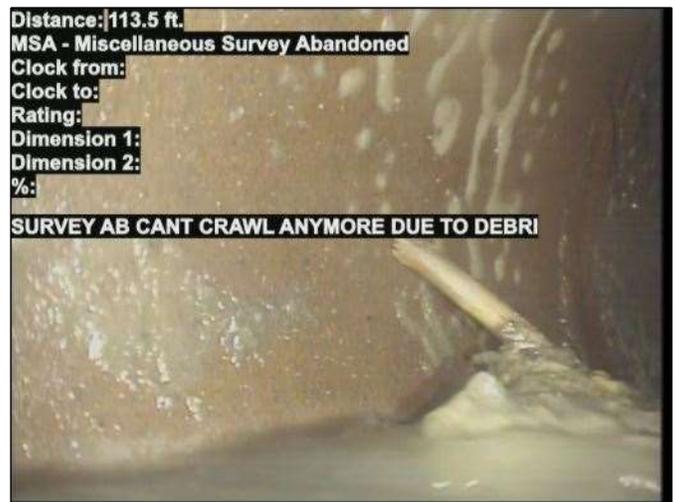
Distance: 83.3 ft.
RBJ - Roots Ball Joint
Clock from: 8 o'clock
Clock to: 4 o'clock
Rating: 4
Dimension 1:
Dimension 2:
%: 55 %

Photo: SS02705-SS02707-20200624-105315-110700.JPG
At: 83.3 ft. 8/4 RBJ - Roots Ball Joint
Joint: Yes 55 %



Distance: 102.0 ft.
RFJ - Roots Fine Joint
Clock from: 9 o'clock
Clock to: 3 o'clock
Rating: 1
Dimension 1:
Dimension 2:
%:

Photo: SS02705-SS02707-20200624-105315-110856.JPG
At: 102 ft. 9/3 RFJ - Roots Fine Joint
Joint: Yes



Distance: 113.5 ft.
MSA - Miscellaneous Survey Abandoned
Clock from:
Clock to:
Rating:
Dimension 1:
Dimension 2:
%:

SURVEY AB CANT CRAWL ANYMORE DUE TO DEBRI

Photo: SS02705-SS02707-20200624-105315-111915.JPG
At: 113.5 ft. MSA - Miscellaneous Survey Abandoned
Joint: No SURVEY AB CANT CRAWL ANYMORE DUE TO DEBRI



Photo: SS02705-SS02707-20200624-105315-111851.JPG

At: 113.5 ft. 5/7 DAGS - Deposits Attached Grease

Joint: No 5 %



NWMCC INSPECTION REPORT

PACP Rating Description

<p><u>1:</u> Excellent Condition</p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u> Good Condition</p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u> Fair Condition</p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u> Poor Condition</p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u> Immediate Attention</p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

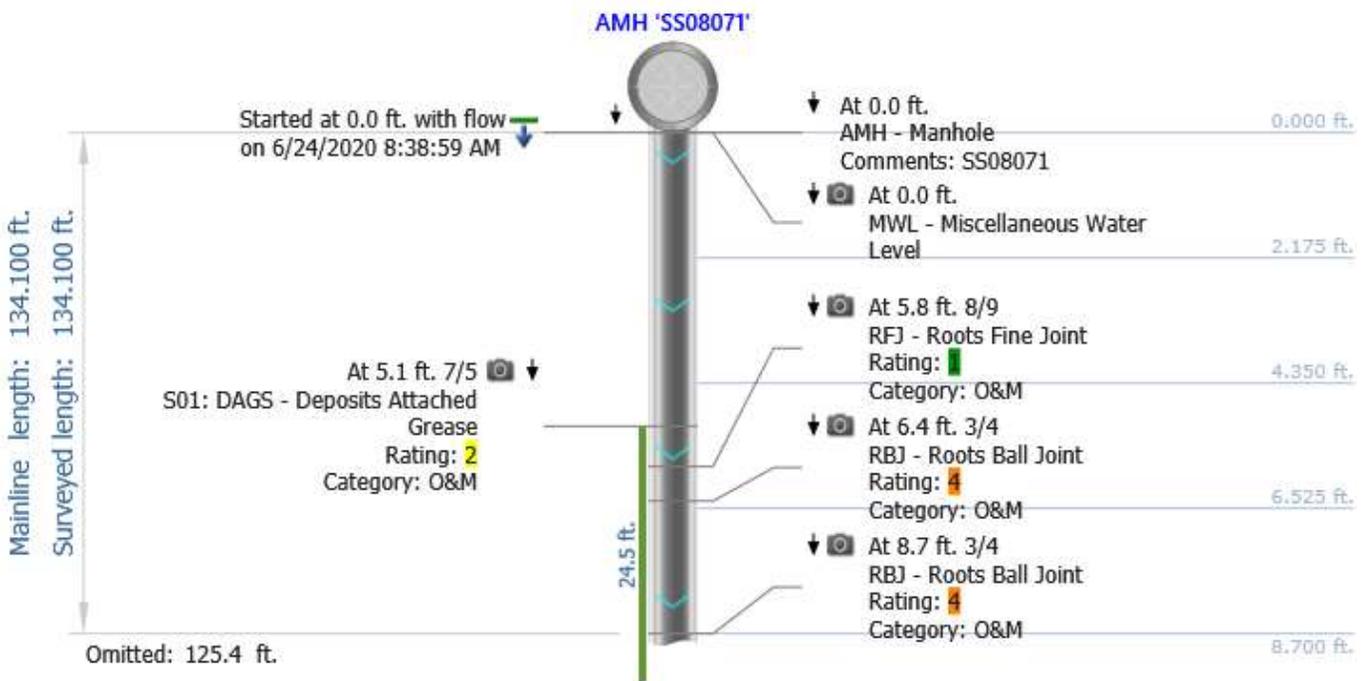


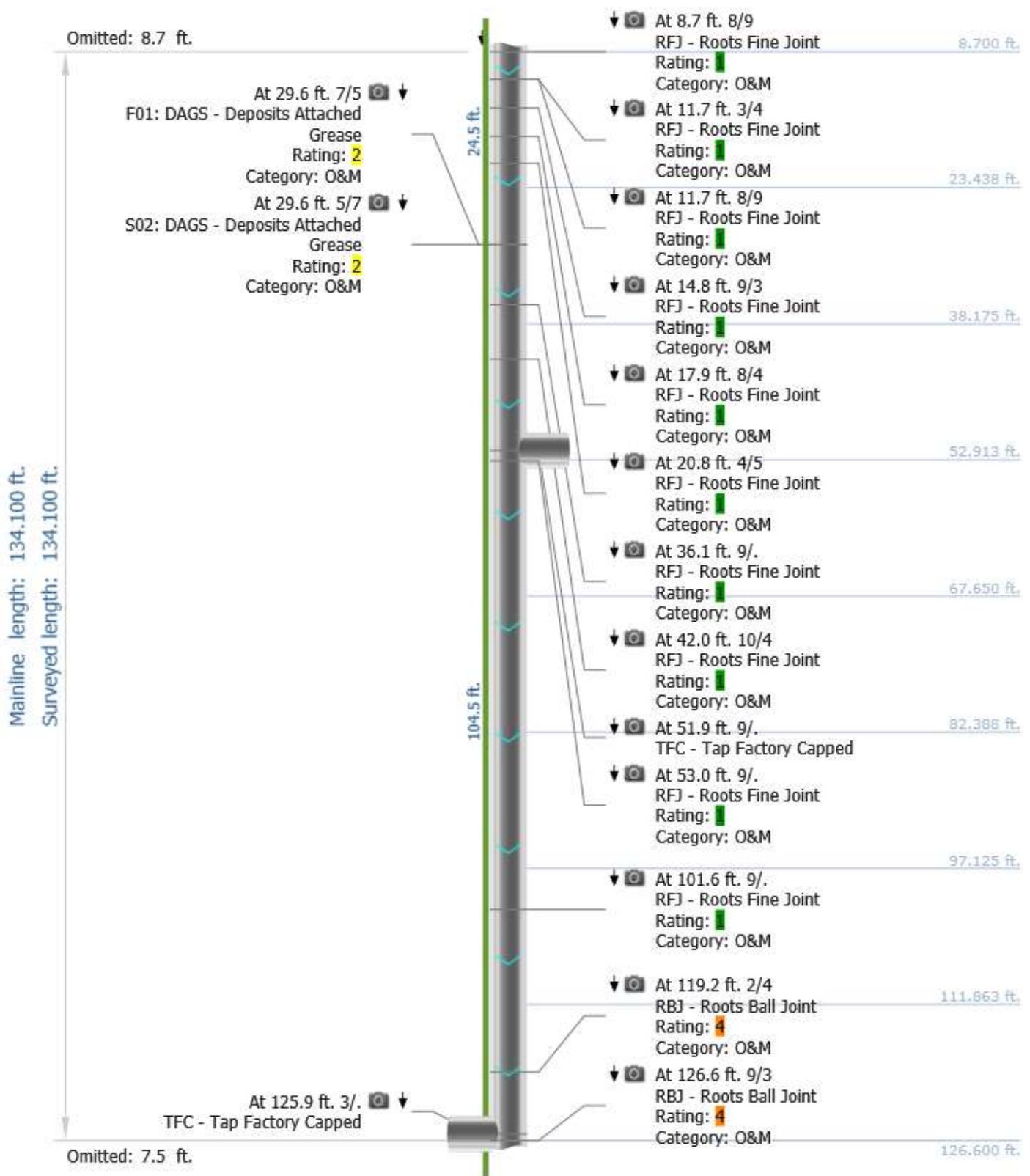
NWMCC INSPECTION REPORT

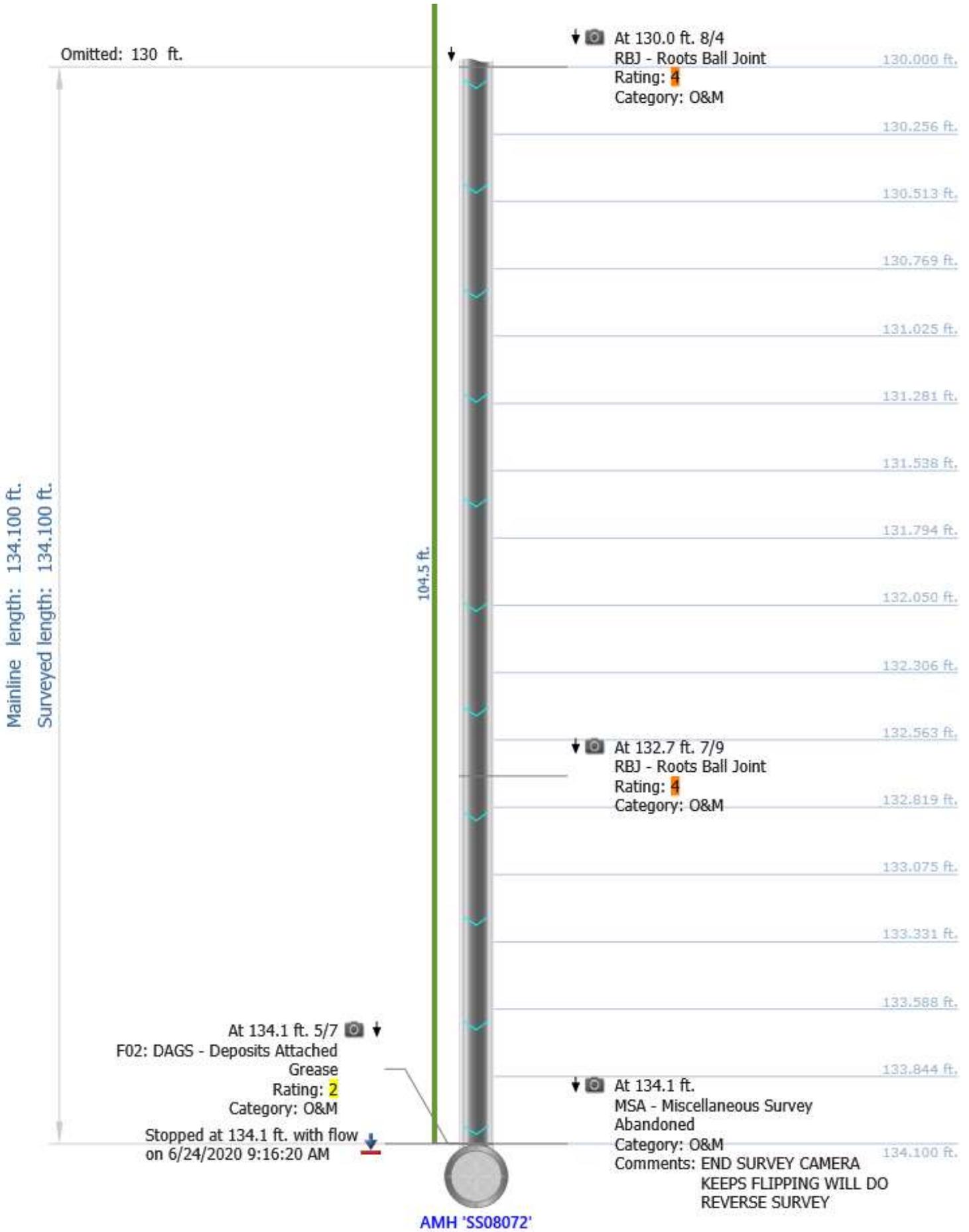
Start date/time: 20200624 08:38	Weather: Dry - No precipitation during survey	Surveyed by: B.GROM	Certificate number: 1234	Pipe segment ref.: SM07743	
Owner:	Customer:	Pre-cleaning: No Pre-Cleaning	Date cleaned:	Project name: WEST05-65	
City: WORCESTER MA	Street: GARRISON AVE	Location code: Easement/Right of way	Pipe use: Sanitary Sewage Pipe	Drainage area:	Flow control: Not Controlled
Upstream MH No: SS08071	Downstream MH No: SS08072	Direction: D	Total length: 134.100 ft.	Length surveyed: 134.100 ft.	
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Vitrified Clay Pipe	LateralsCounter:	Additional info:

Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	11	87	462D	2.0	87	2.0	4.6	
2	0	0				0	52							
3	0	0				0	0							
4	0	0				0	24							
5	0	0				0	0							



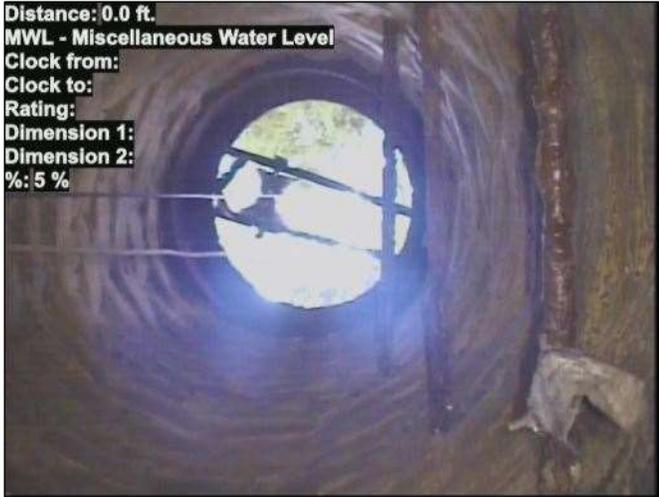




NWMCC INSPECTION REPORT

Inspection Photos

City: WORCESTER MA	Street: GARRISON AVE	Start date/time: 20200624 08:38	Pipe segment ref.: SM07743
------------------------------	--------------------------------	---	--------------------------------------



Distance: 0.0 ft.
MWL - Miscellaneous Water Level
Clock from:
Clock to:
Rating:
Dimension 1:
Dimension 2:
%: 5 %

Photo: SS08071-SS08072-20200624-083859-083901.JPG
At: 0 ft. MWL - Miscellaneous Water Level
Joint: No 5 %



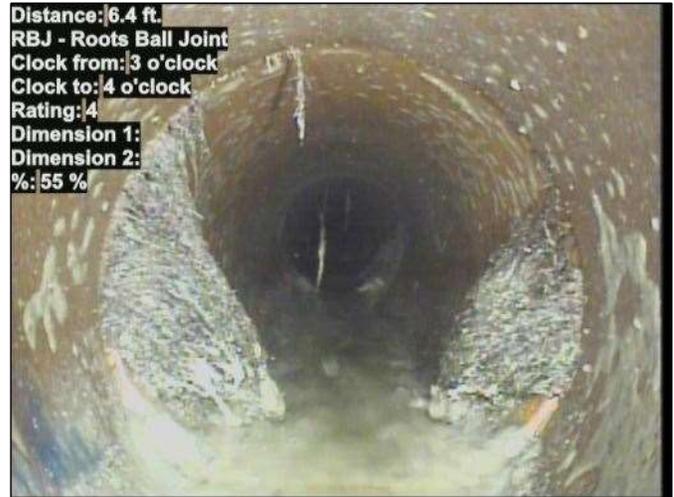
Distance: 5.1 ft.
DAGS - Deposits Attached Grease
Clock from: 7 o'clock
Clock to: 5 o'clock
Rating: 2
Dimension 1:
Dimension 2:
%: 5 %

Photo: SS08071-SS08072-20200624-083859-083946.JPG
At: 5.1 ft. 7/5 DAGS - Deposits Attached Grease
Joint: No 5 %



Distance: 5.8 ft.
RFJ - Roots Fine Joint
Clock from: 8 o'clock
Clock to: 9 o'clock
Rating: 1
Dimension 1:
Dimension 2:
%:

Photo: SS08071-SS08072-20200624-083859-084014.JPG
At: 5.8 ft. 8/9 RFJ - Roots Fine Joint
Joint: Yes



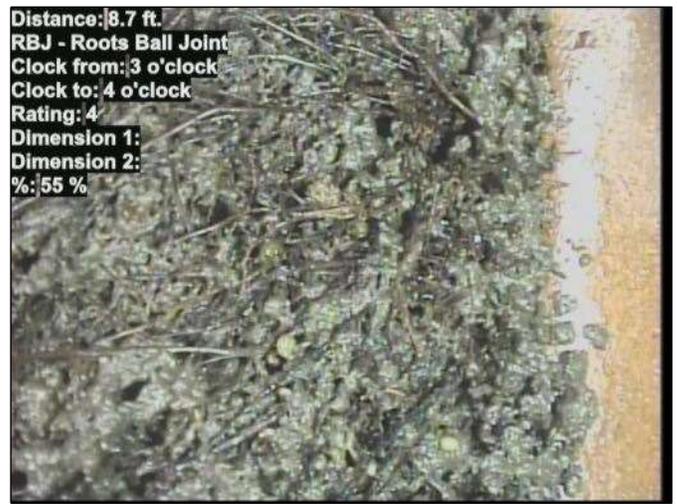
Distance: 6.4 ft.
RBJ - Roots Ball Joint
Clock from: 3 o'clock
Clock to: 4 o'clock
Rating: 4
Dimension 1:
Dimension 2:
%: 55 %

Photo: SS08071-SS08072-20200624-083859-084103_1.JPG
At: 6.4 ft. 3/4 RBJ - Roots Ball Joint
Joint: Yes 55 %



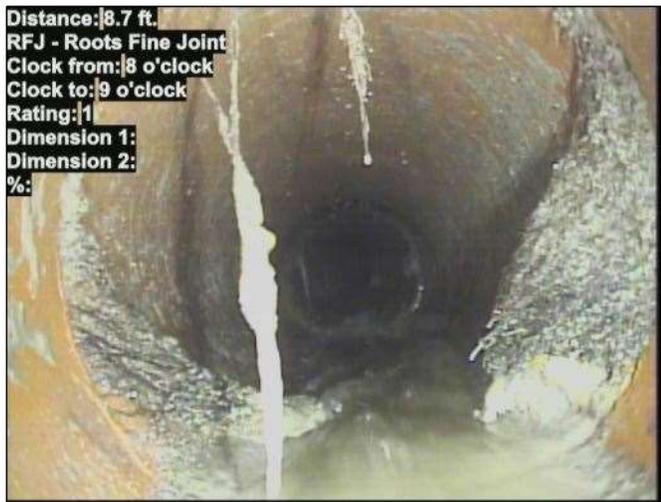
Distance: 6.4 ft.
RBJ - Roots Ball Joint
Clock from: 3 o'clock
Clock to: 4 o'clock
Rating: 4
Dimension 1:
Dimension 2:
%: 55 %

Photo: SS08071-SS08072-20200624-083859-084103.JPG
At: 6.4 ft. 3/4 RBJ - Roots Ball Joint
Joint: Yes 55 %



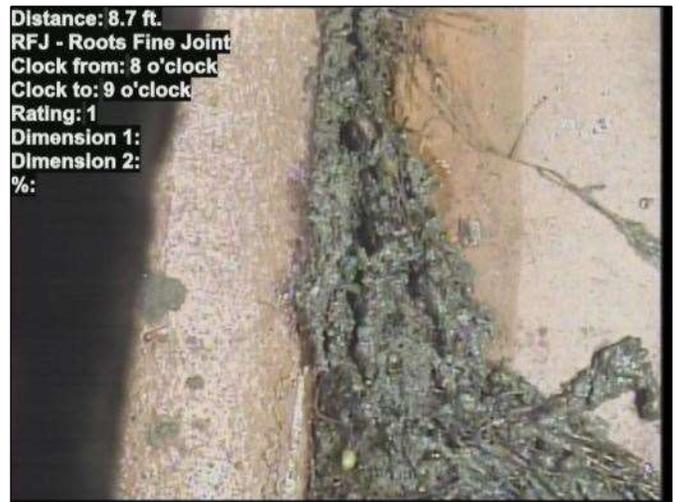
Distance: 8.7 ft.
RBJ - Roots Ball Joint
Clock from: 3 o'clock
Clock to: 4 o'clock
Rating: 4
Dimension 1:
Dimension 2:
%: 55 %

Photo: SS08071-SS08072-20200624-083859-084155.JPG
At: 8.7 ft. 3/4 RBJ - Roots Ball Joint
Joint: Yes 55 %



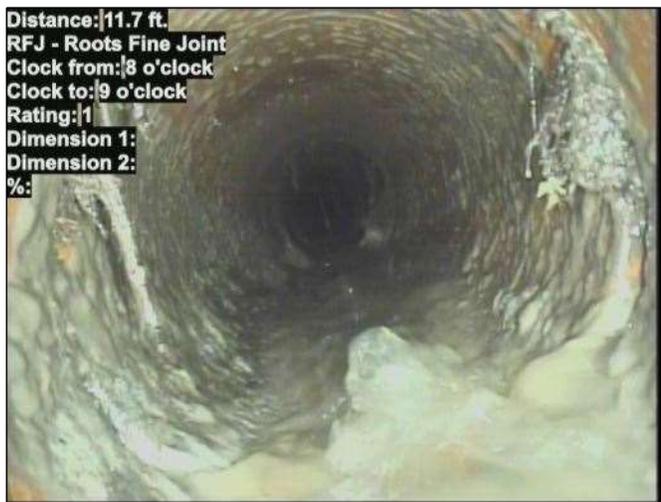
Distance: 8.7 ft.
RFJ - Roots Fine Joint
Clock from: 8 o'clock
Clock to: 9 o'clock
Rating: 1
Dimension 1:
Dimension 2:
%:

Photo: SS08071-SS08072-20200624-083859-084209_1.JPG
At: 8.7 ft. 8/9 RFJ - Roots Fine Joint
Joint: Yes



Distance: 8.7 ft.
RFJ - Roots Fine Joint
Clock from: 8 o'clock
Clock to: 9 o'clock
Rating: 1
Dimension 1:
Dimension 2:
%:

Photo: SS08071-SS08072-20200624-083859-084209.JPG
At: 8.7 ft. 8/9 RFJ - Roots Fine Joint
Joint: Yes



Distance: 11.7 ft.
RFJ - Roots Fine Joint
Clock from: 8 o'clock
Clock to: 9 o'clock
Rating: 1
Dimension 1:
Dimension 2:
%:

Photo: SS08071-SS08072-20200624-083859-084253_1.JPG
At: 11.7 ft. 8/9 RFJ - Roots Fine Joint
Joint: Yes



Distance: 11.7 ft.
RFJ - Roots Fine Joint
Clock from: 8 o'clock
Clock to: 9 o'clock
Rating: 1
Dimension 1:
Dimension 2:
%:

Photo: SS08071-SS08072-20200624-083859-084253.JPG
At: 11.7 ft. 8/9 RFJ - Roots Fine Joint
Joint: Yes



Distance: 11.7 ft.
RFJ - Roots Fine Joint
Clock from: 3 o'clock
Clock to: 4 o'clock
Rating: 1
Dimension 1:
Dimension 2:
%:

Photo: SS08071-SS08072-20200624-083859-084242.JPG
At: 11.7 ft. 3/4 RFJ - Roots Fine Joint
Joint: Yes



Distance: 14.8 ft.
RFJ - Roots Fine Joint
Clock from: 9 o'clock
Clock to: 3 o'clock
Rating: 1
Dimension 1:
Dimension 2:
%:

Photo: SS08071-SS08072-20200624-083859-084337_1.JPG
At: 14.8 ft. 9/3 RFJ - Roots Fine Joint
Joint: Yes



Distance: 14.8 ft.
RFJ - Roots Fine Joint
Clock from: 9 o'clock
Clock to: 3 o'clock
Rating: 1
Dimension 1:
Dimension 2:
%:

Photo: SS08071-SS08072-20200624-083859-084337.JPG
At: 14.8 ft. 9/3 RFJ - Roots Fine Joint
Joint: Yes



Distance: 17.9 ft.
RFJ - Roots Fine Joint
Clock from: 8 o'clock
Clock to: 4 o'clock
Rating: 1
Dimension 1:
Dimension 2:
%:

Photo: SS08071-SS08072-20200624-083859-084411_1.JPG
At: 17.9 ft. 8/4 RFJ - Roots Fine Joint
Joint: Yes



Distance: 17.9 ft.
RFJ - Roots Fine Joint
Clock from: 8 o'clock
Clock to: 4 o'clock
Rating: 1
Dimension 1:
Dimension 2:
%:

Photo: SS08071-SS08072-20200624-083859-084411.JPG
At: 17.9 ft. 8/4 RFJ - Roots Fine Joint
Joint: Yes



6/24/2020 8:45:29 AM
Upstream MH No: AMH 'SS08071'
Downstream MH No: AMH 'SS08072'

Photo: SS08071-SS08072-20200624-083859-084442_1.JPG
At: 20.8 ft. 4/5 RFJ - Roots Fine Joint
Joint: Yes



Photo: SS08071-SS08072-20200624-083859-084442.JPG
At: 20.8 ft. 4/5 RFJ - Roots Fine Joint
Joint: Yes



Photo: SS08071-SS08072-20200624-083859-084558_1.JPG
At: 29.6 ft. 5/7 DAGS - Deposits Attached Grease
Joint: No 5%

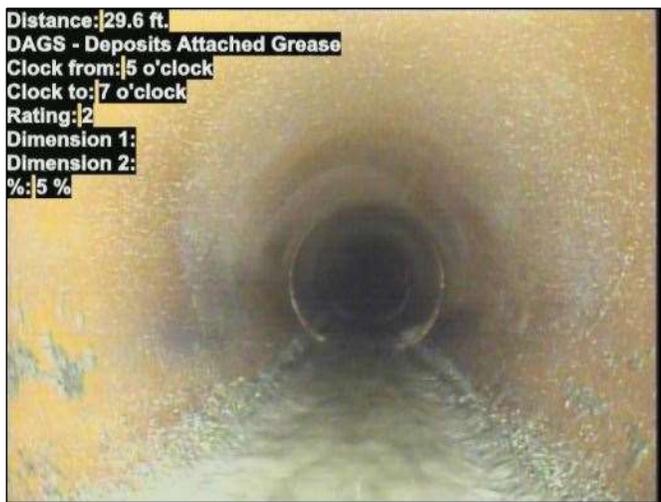


Photo: SS08071-SS08072-20200624-083859-084558.JPG
At: 29.6 ft. 5/7 DAGS - Deposits Attached Grease
Joint: No 5%



Photo: SS08071-SS08072-20200624-083859-084543.JPG
At: 29.6 ft. 7/5 DAGS - Deposits Attached Grease
Joint: No 5%

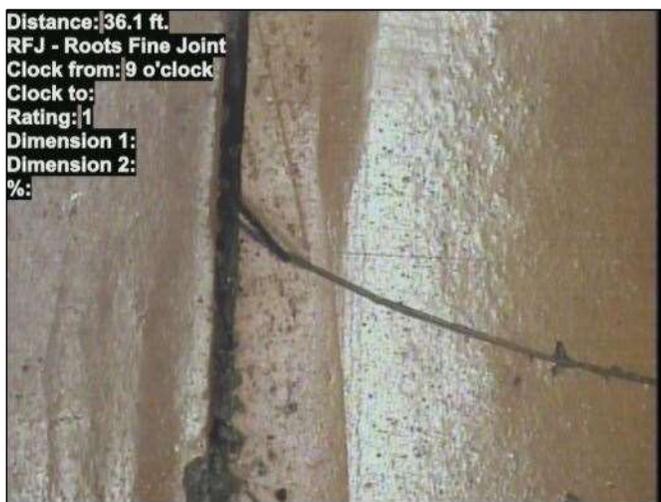


Photo: SS08071-SS08072-20200624-083859-084639.JPG
At: 36.1 ft. 9/ RFJ - Roots Fine Joint
Joint: Yes

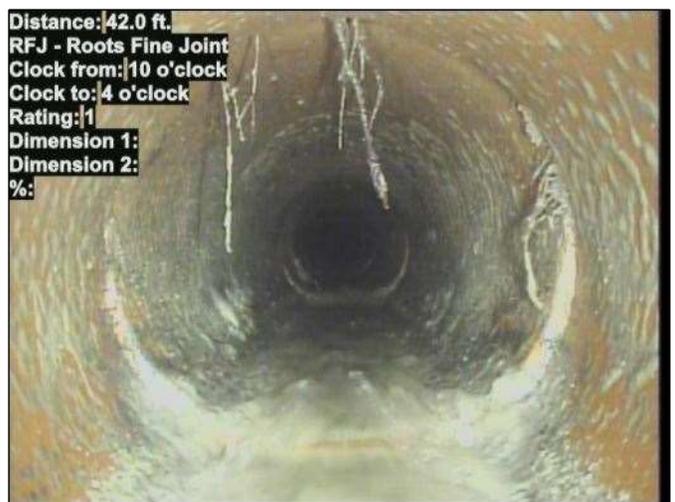


Photo: SS08071-SS08072-20200624-083859-084714_1.JPG
At: 42 ft. 10/4 RFJ - Roots Fine Joint
Joint: Yes

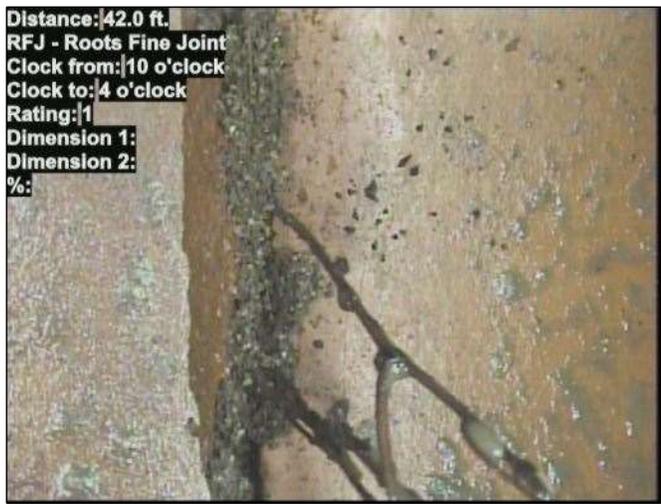


Photo: SS08071-SS08072-20200624-083859-084714.JPG
At: 42 ft. 10/4 RFJ - Roots Fine Joint
Joint: Yes



Photo: SS08071-SS08072-20200624-083859-084814_1.JPG
At: 51.9 ft. 9/ TFC - Tap Factory Capped
Joint: Yes

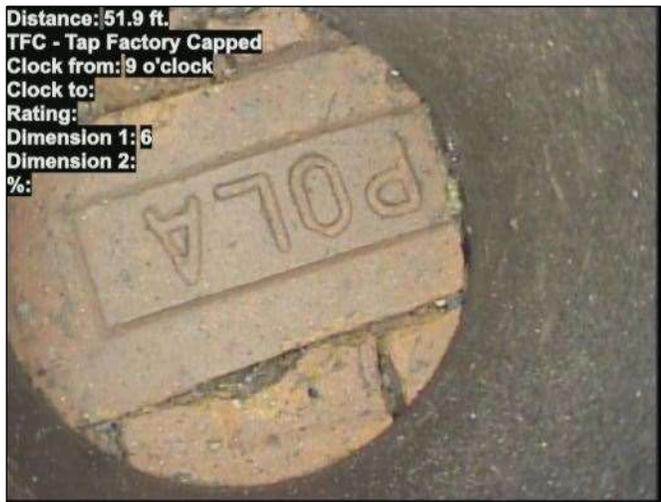


Photo: SS08071-SS08072-20200624-083859-084814.JPG
At: 51.9 ft. 9/ TFC - Tap Factory Capped
Joint: Yes



Photo: SS08071-SS08072-20200624-083859-084838_3.JPG
At: 53 ft. 9/ RFJ - Roots Fine Joint
Joint: Yes



Photo: SS08071-SS08072-20200624-083859-084838_2.JPG
At: 53 ft. 9/ RFJ - Roots Fine Joint
Joint: Yes

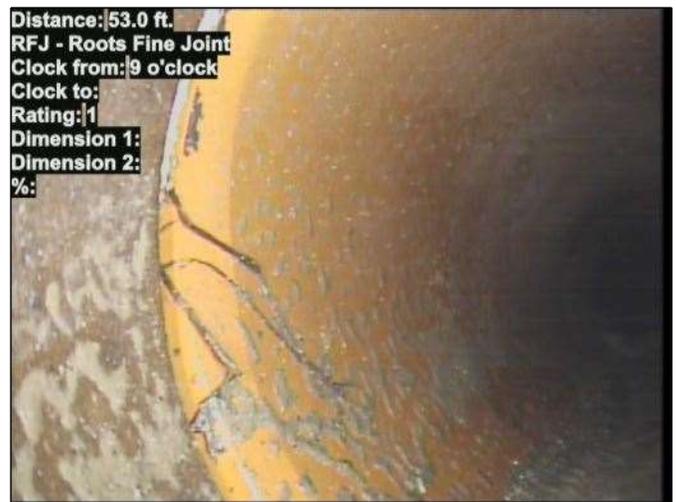


Photo: SS08071-SS08072-20200624-083859-084838_1.JPG
At: 53 ft. 9/ RFJ - Roots Fine Joint
Joint: Yes



Distance: 53.0 ft.
RFJ - Roots Fine Joint
Clock from: 9 o'clock
Clock to:
Rating: 1
Dimension 1:
Dimension 2:
%:

Photo: SS08071-SS08072-20200624-083859-084838.JPG
At: 53 ft. 9/. RFJ - Roots Fine Joint
Joint: Yes



Distance: 101.6 ft.
RFJ - Roots Fine Joint
Clock from: 9 o'clock
Clock to:
Rating: 1
Dimension 1:
Dimension 2:
%:

Photo: SS08071-SS08072-20200624-083859-085226.JPG
At: 101.6 ft. 9/. RFJ - Roots Fine Joint
Joint: Yes



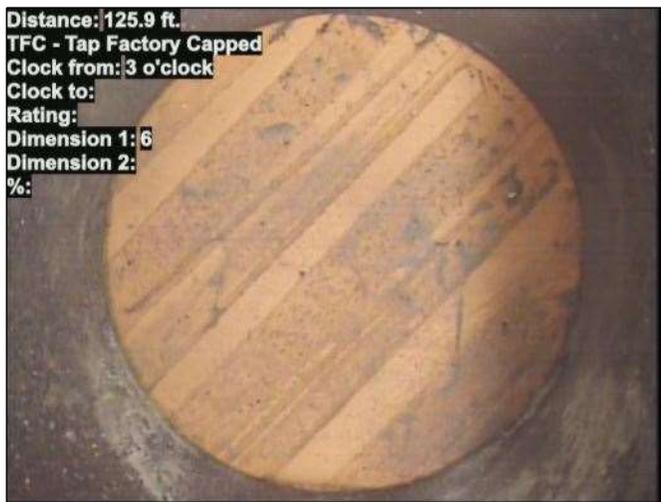
Distance: 119.2 ft.
RBJ - Roots Ball Joint
Clock from: 2 o'clock
Clock to: 4 o'clock
Rating: 4
Dimension 1:
Dimension 2:
%: 65 %

Photo: SS08071-SS08072-20200624-083859-085346.JPG
At: 119.2 ft. 2/4 RBJ - Roots Ball Joint
Joint: Yes 65 %



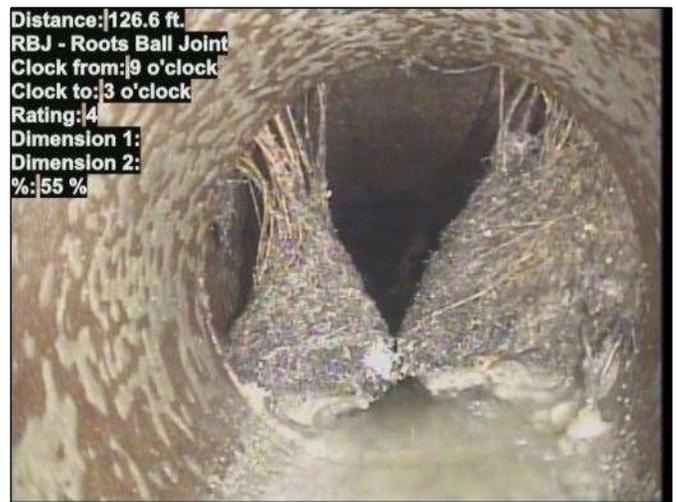
Distance: 125.9 ft.
TFC - Tap Factory Capped
Clock from: 3 o'clock
Clock to:
Rating:
Dimension 1: 6
Dimension 2:
%:

Photo: SS08071-SS08072-20200624-083859-091031_1.JPG
At: 125.9 ft. 3/. TFC - Tap Factory Capped
Joint: Yes



Distance: 125.9 ft.
TFC - Tap Factory Capped
Clock from: 3 o'clock
Clock to:
Rating:
Dimension 1: 6
Dimension 2:
%:

Photo: SS08071-SS08072-20200624-083859-091031.JPG
At: 125.9 ft. 3/. TFC - Tap Factory Capped
Joint: Yes



Distance: 126.6 ft.
RBJ - Roots Ball Joint
Clock from: 9 o'clock
Clock to: 3 o'clock
Rating: 4
Dimension 1:
Dimension 2:
%: 55 %

Photo: SS08071-SS08072-20200624-083859-091053_1.JPG
At: 126.6 ft. 9/3 RBJ - Roots Ball Joint
Joint: Yes 55 %



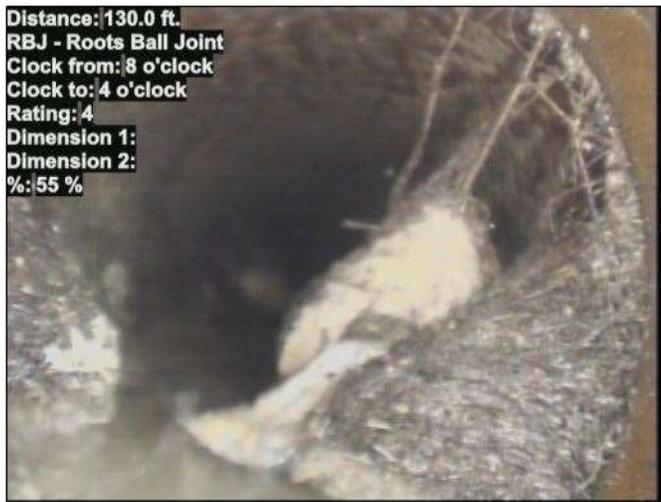
Distance: 126.6 ft.
RBJ - Roots Ball Joint
Clock from: 9 o'clock
Clock to: 3 o'clock
Rating: 4
Dimension 1:
Dimension 2:
%: 55 %

Photo: SS08071-SS08072-20200624-083859-091053.JPG
At: 126.6 ft. 9/3 RBJ - Roots Ball Joint
Joint: Yes 55 %



Distance: 130.0 ft.
RBJ - Roots Ball Joint
Clock from: 8 o'clock
Clock to: 4 o'clock
Rating: 4
Dimension 1:
Dimension 2:
%: 55 %

Photo: SS08071-SS08072-20200624-083859-091148_1.JPG
At: 130 ft. 8/4 RBJ - Roots Ball Joint
Joint: Yes 55 %



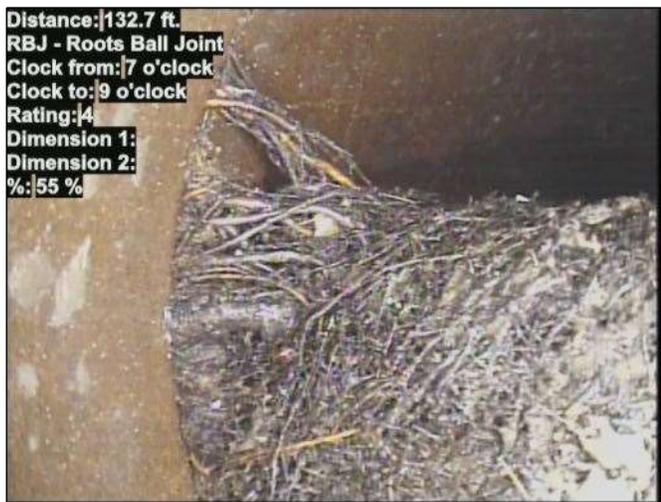
Distance: 130.0 ft.
RBJ - Roots Ball Joint
Clock from: 8 o'clock
Clock to: 4 o'clock
Rating: 4
Dimension 1:
Dimension 2:
%: 55 %

Photo: SS08071-SS08072-20200624-083859-091148.JPG
At: 130 ft. 8/4 RBJ - Roots Ball Joint
Joint: Yes 55 %



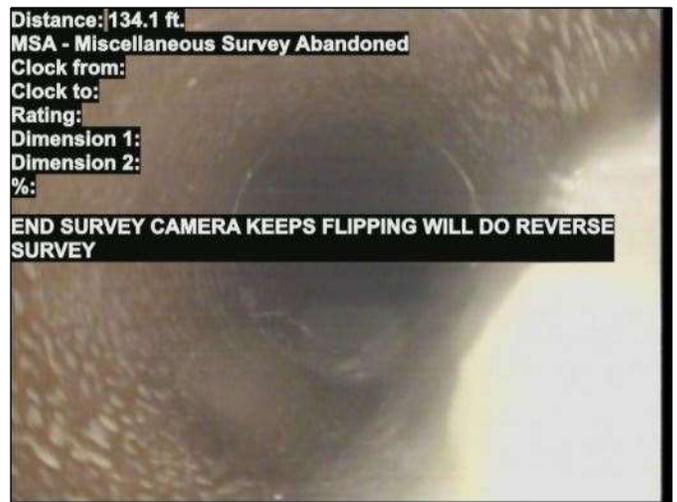
Distance: 132.7 ft.
RBJ - Roots Ball Joint
Clock from: 7 o'clock
Clock to: 9 o'clock
Rating: 4
Dimension 1:
Dimension 2:
%: 55 %

Photo: SS08071-SS08072-20200624-083859-091245_1.JPG
At: 132.7 ft. 7/9 RBJ - Roots Ball Joint
Joint: Yes 55 %



Distance: 132.7 ft.
RBJ - Roots Ball Joint
Clock from: 7 o'clock
Clock to: 9 o'clock
Rating: 4
Dimension 1:
Dimension 2:
%: 55 %

Photo: SS08071-SS08072-20200624-083859-091245.JPG
At: 132.7 ft. 7/9 RBJ - Roots Ball Joint
Joint: Yes 55 %



Distance: 134.1 ft.
MSA - Miscellaneous Survey Abandoned
Clock from:
Clock to:
Rating:
Dimension 1:
Dimension 2:
%:

END SURVEY CAMERA KEEPS FLIPPING WILL DO REVERSE SURVEY

Photo: SS08071-SS08072-20200624-083859-091554.JPG
At: 134.1 ft. MSA - Miscellaneous Survey Abandoned
Joint: No END SURVEY CAMERA KEEPS FLIPPING WILL DO REVERSE SURVEY



Photo: **SS08071-SS08072-20200624-083859-091550.JPG**

At: **134.1 ft. 5/7 DAGS - Deposits Attached Grease**

Joint: **No 5 %**



NWMCC INSPECTION REPORT

PACP Rating Description

<p><u>1:</u> Excellent Condition</p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u> Good Condition</p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u> Fair Condition</p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u> Poor Condition</p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u> Immediate Attention</p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>



NWMCC INSPECTION REPORT

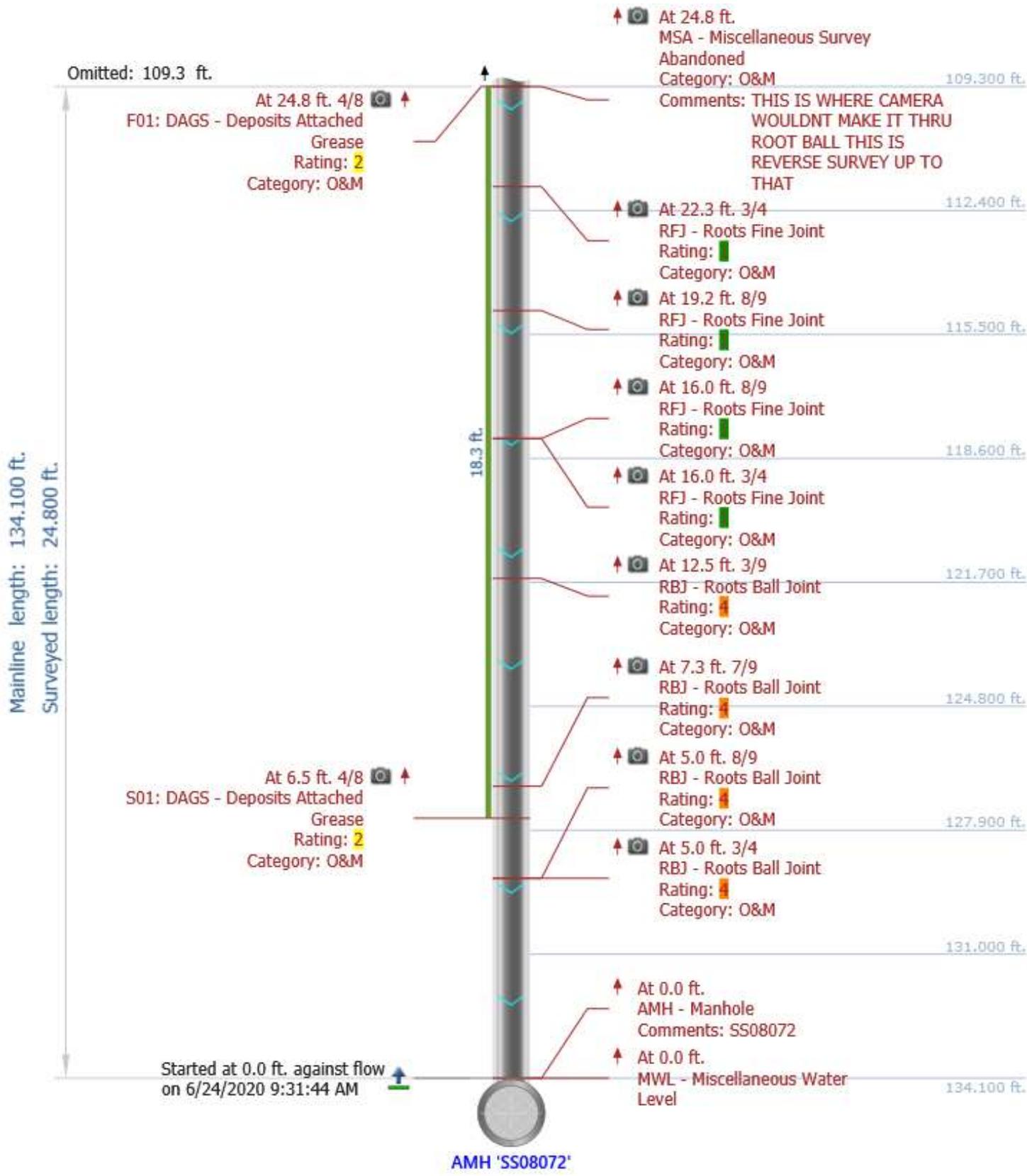
Start date/time: 20200624 09:31	Weather: Dry - No precipitation during survey	Surveyed by: B.GROM	Certificate number: 1234	Pipe segment ref.: SM07743	
Owner:	Customer:	Pre-cleaning: No Pre-Cleaning	Date cleaned:	Project name: WEST05-65	
City: WORCESTER MA	Street: GARRISON AVE	Location code: Easement/Right of way	Pipe use: Sanitary Sewage Pipe	Drainage area:	Flow control:
Upstream MH No: SS08071	Downstream MH No: SS08072	Direction: U	Total length: 134.100 ft.	Length surveyed: 24.800 ft.	
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Vitrified Clay Pipe	LateralsCounter:	Additional info:

Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	4	32	4524	2.5	32	2.5	4.5	
2	0	0				0	8							
3	0	0				0	0							
4	0	0				0	20							
5	0	0				0	0							

AMH 'SS08071'





NWMCC INSPECTION REPORT

Inspection Photos

City: WORCESTER MA	Street: GARRISON AVE	Start date/time: 20200624 09:31	Pipe segment ref.: SM07743
------------------------------	--------------------------------	---	--------------------------------------



Photo: SS08071-SS08072-20200624-093144-093247.JPG
At: 5 ft. 8/9 RBJ - Roots Ball Joint
Joint: Yes 55 %



Photo: SS08071-SS08072-20200624-093144-093301_1.JPG
At: 5 ft. 3/4 RBJ - Roots Ball Joint
Joint: Yes 55 %



Photo: SS08071-SS08072-20200624-093144-093301.JPG
At: 5 ft. 3/4 RBJ - Roots Ball Joint
Joint: Yes 55 %



Photo: SS08071-SS08072-20200624-093144-093436.JPG
At: 6.5 ft. 4/8 DAGS - Deposits Attached Grease
Joint: No 5 %

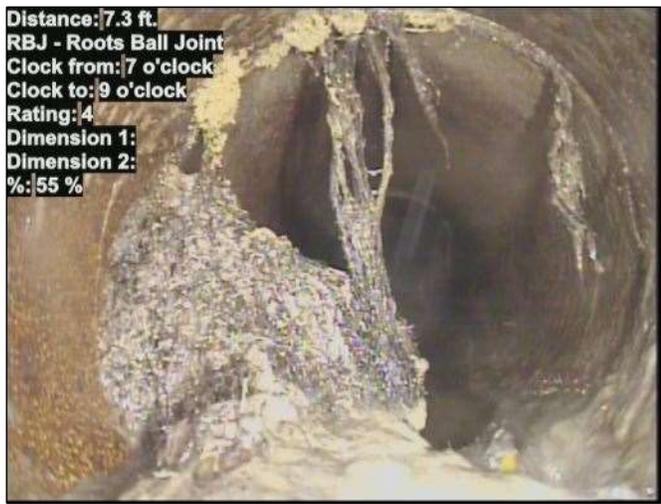


Photo: SS08071-SS08072-20200624-093144-093455_1.JPG
At: 7.3 ft. 7/9 RBJ - Roots Ball Joint
Joint: Yes 55 %



Photo: SS08071-SS08072-20200624-093144-093455.JPG
At: 7.3 ft. 7/9 RBJ - Roots Ball Joint
Joint: Yes 55 %

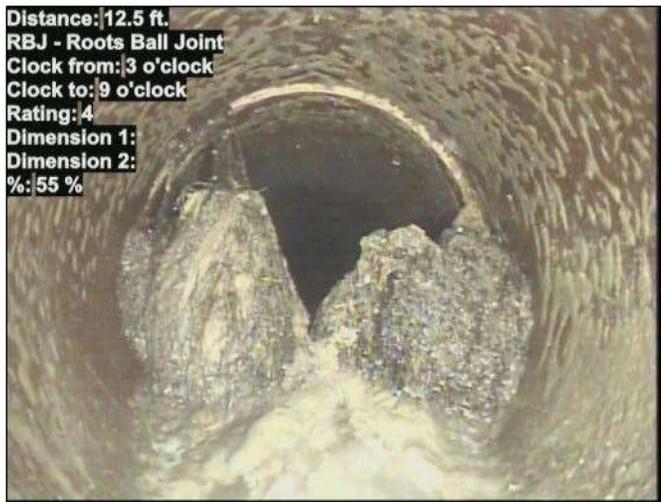


Photo: SS08071-SS08072-20200624-093144-093914_1.JPG
At: 12.5 ft. 3/9 RBJ - Roots Ball Joint
Joint: Yes 55 %

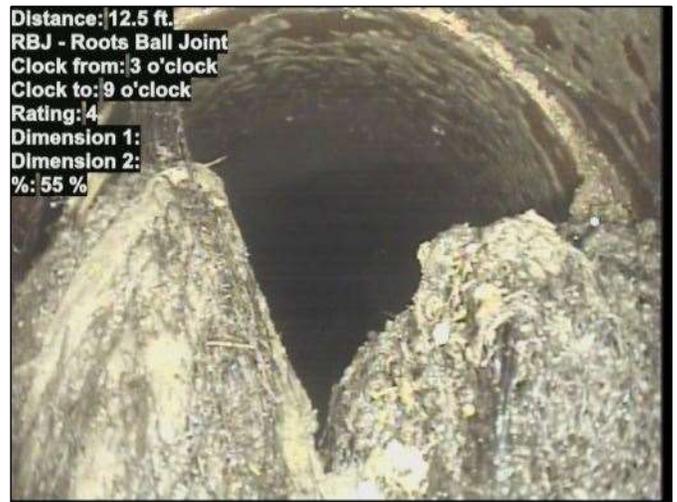


Photo: SS08071-SS08072-20200624-093144-093914.JPG
At: 12.5 ft. 3/9 RBJ - Roots Ball Joint
Joint: Yes 55 %

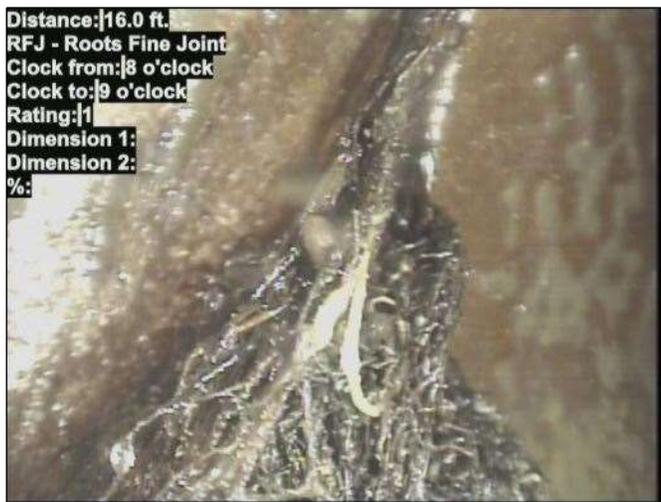


Photo: SS08071-SS08072-20200624-093144-093957.JPG
At: 16 ft. 8/9 RFJ - Roots Fine Joint
Joint: Yes



Photo: SS08071-SS08072-20200624-093144-094003_1.JPG
At: 16 ft. 3/4 RFJ - Roots Fine Joint
Joint: Yes



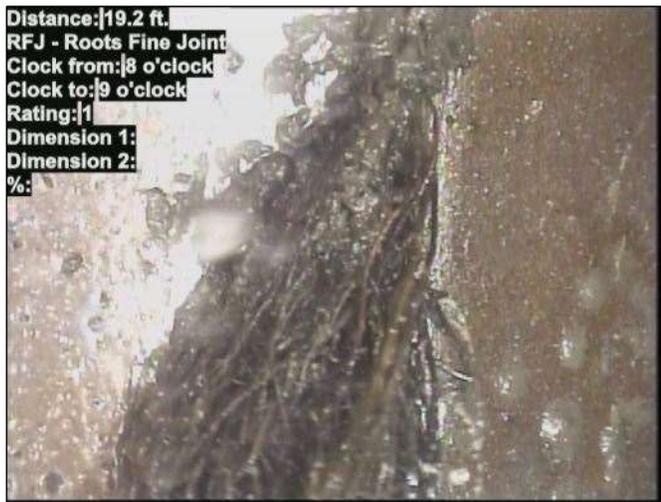
Distance: 16.0 ft.
RFJ - Roots Fine Joint
Clock from: 3 o'clock
Clock to: 4 o'clock
Rating: 1
Dimension 1:
Dimension 2:
%:

Photo: SS08071-SS08072-20200624-093144-094003.JPG
At: 16 ft. 3/4 RFJ - Roots Fine Joint
Joint: Yes



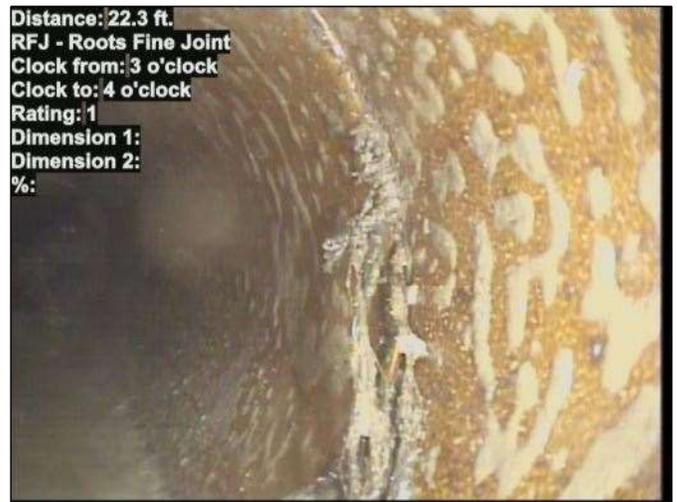
Distance: 19.2 ft.
RFJ - Roots Fine Joint
Clock from: 8 o'clock
Clock to: 9 o'clock
Rating: 1
Dimension 1:
Dimension 2:
%:

Photo: SS08071-SS08072-20200624-093144-094042_1.JPG
At: 19.2 ft. 8/9 RFJ - Roots Fine Joint
Joint: Yes



Distance: 19.2 ft.
RFJ - Roots Fine Joint
Clock from: 8 o'clock
Clock to: 9 o'clock
Rating: 1
Dimension 1:
Dimension 2:
%:

Photo: SS08071-SS08072-20200624-093144-094042.JPG
At: 19.2 ft. 8/9 RFJ - Roots Fine Joint
Joint: Yes



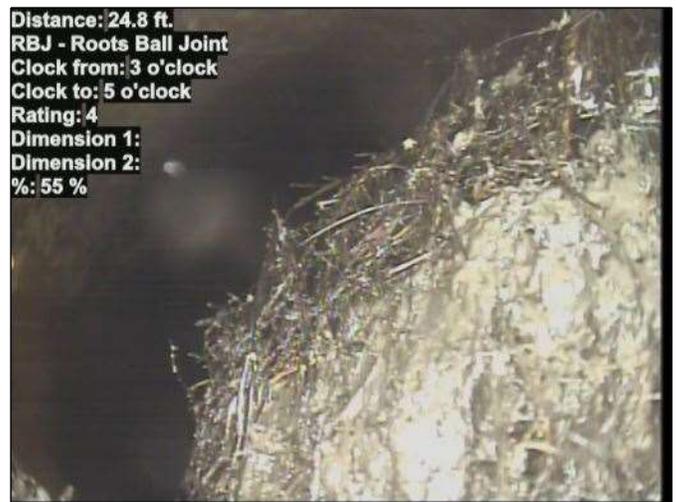
Distance: 22.3 ft.
RFJ - Roots Fine Joint
Clock from: 3 o'clock
Clock to: 4 o'clock
Rating: 1
Dimension 1:
Dimension 2:
%:

Photo: SS08071-SS08072-20200624-093144-094110_1.JPG
At: 22.3 ft. 3/4 RFJ - Roots Fine Joint
Joint: Yes



Distance: 22.3 ft.
RFJ - Roots Fine Joint
Clock from: 3 o'clock
Clock to: 4 o'clock
Rating: 1
Dimension 1:
Dimension 2:
%:

Photo: SS08071-SS08072-20200624-093144-094110.JPG
At: 22.3 ft. 3/4 RFJ - Roots Fine Joint
Joint: Yes



Distance: 24.8 ft.
RBJ - Roots Ball Joint
Clock from: 3 o'clock
Clock to: 5 o'clock
Rating: 4
Dimension 1:
Dimension 2:
%: 55 %

Photo: SS08071-SS08072-20200624-093144-094134.JPG
At: 24.8 ft. 3/5 RBJ - Roots Ball Joint
Joint: Yes 55 %



Photo: SS08071-SS08072-20200624-093144-094143.JPG
At: 24.8 ft. 4/8 DAGS - Deposits Attached Grease
Joint: No 5 %

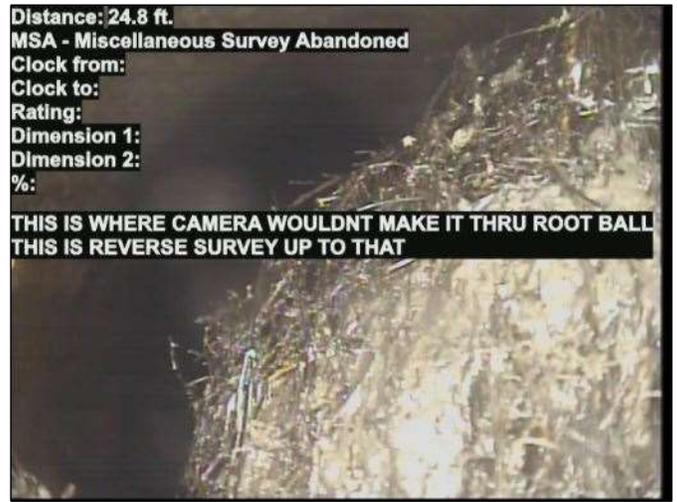


Photo: SS08071-SS08072-20200624-093144-094149.JPG
At: 24.8 ft. MSA - Miscellaneous Survey Abandoned
Joint: No THIS IS WHERE CAMERA WOULDNT MAKE IT THRU ROOT BALL THIS IS REVERSE SURVEY UP TO THAT



NWMCC INSPECTION REPORT

PACP Rating Description

<p><u>1:</u> Excellent Condition</p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u> Good Condition</p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u> Fair Condition</p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u> Poor Condition</p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u> Immediate Attention</p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

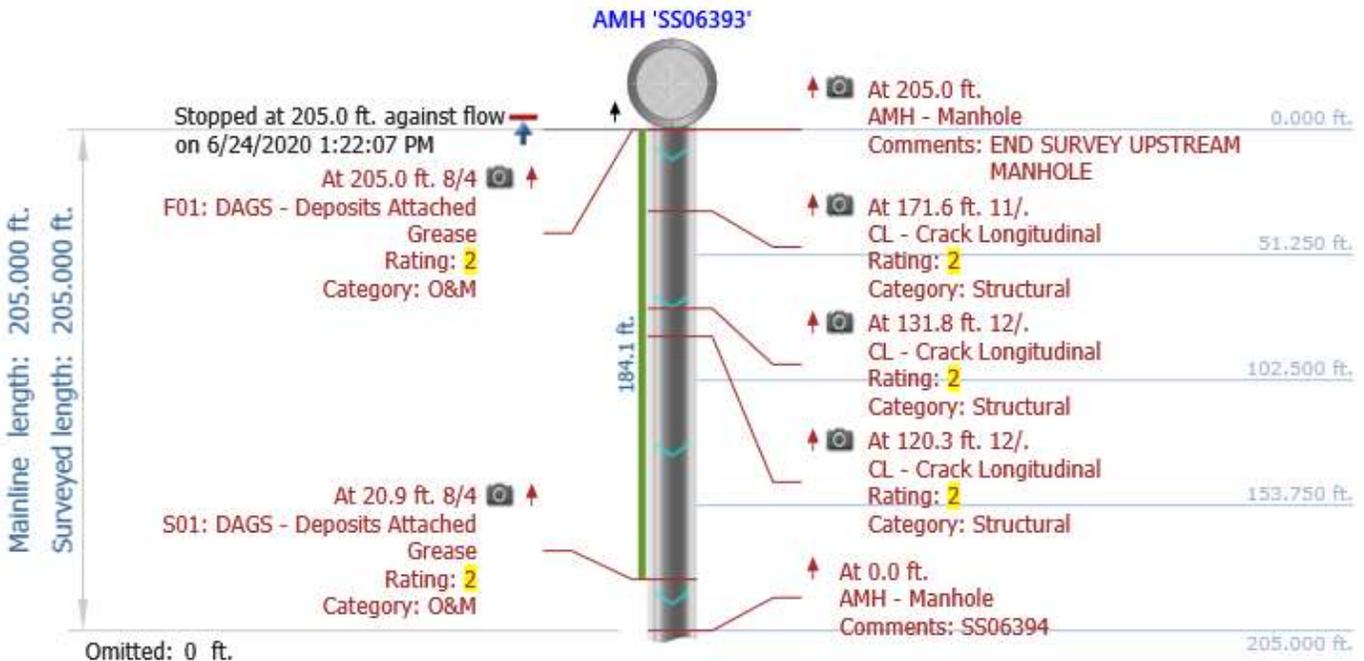


NWMCC INSPECTION REPORT

Start date/time: 20200624 12:53	Weather: Dry - No precipitation during survey	Surveyed by: B.GROM	Certificate number: 1234	Pipe segment ref.: SM14593	
Owner:	Customer:	Pre-cleaning: No Pre-Cleaning	Date cleaned:	Project name: WEST05-65	
City: WORCESTER ,MA	Street: GARRISON AVE	Location code: Easement/Right of way	Pipe use: Sanitary Sewage Pipe	Drainage area:	Flow control: Not Controlled
Upstream MH No: SS06393	Downstream MH No: SS06394	Direction: U	Total length: 205.000 ft.	Length surveyed: 205.000 ft.	
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Vitrified Clay Pipe	LateralsCounter:	Additional info:

Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	6	2300	2.0	0	0	74	2F00	2.0	80	2.0	3.0	
2	0	6				0	74							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							



Mainline length: 205.000 ft.
Surveyed length: 205.000 ft.

Omitted: 205 ft.

Started at 0.0 ft. against flow
on 6/24/2020 12:53:06 PM



AMH 'SS06394'



At 0.0 ft.

MWL - Miscellaneous Water
Level

205.000 ft.
205.000 ft.

NWMCC INSPECTION REPORT

Inspection Photos

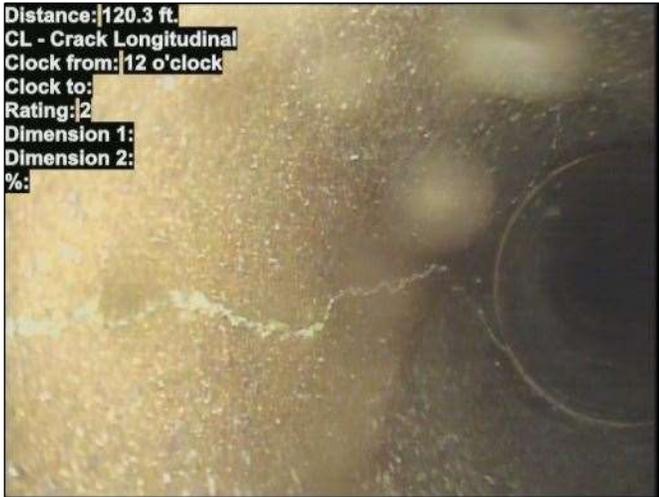
City: WORCESTER ,MA	Street: GARRISON AVE	Start date/time: 20200624 12:53	Pipe segment ref.: SM14593
-------------------------------	--------------------------------	---	--------------------------------------



Distance: 0.0 ft.
MWL - Miscellaneous Water Level
Clock from:
Clock to:
Rating:
Dimension 1:
Dimension 2:
%: 5 %
Photo: SS06393-SS06394-20200624-125306-125308.JPG
At: 0 ft. MWL - Miscellaneous Water Level
Joint: No 5 %



Distance: 20.9 ft.
DAGS - Deposits Attached Grease
Clock from: 8 o'clock
Clock to: 4 o'clock
Rating: 2
Dimension 1:
Dimension 2:
%: 5 %
Photo: SS06393-SS06394-20200624-125306-130349.JPG
At: 20.9 ft. 8/4 DAGS - Deposits Attached Grease
Joint: No 5 %



Distance: 120.3 ft.
CL - Crack Longitudinal
Clock from: 12 o'clock
Clock to:
Rating: 2
Dimension 1:
Dimension 2:
%:
Photo: SS06393-SS06394-20200624-125306-131305_3.JPG
At: 120.3 ft. 12/. CL - Crack Longitudinal
Joint: Yes

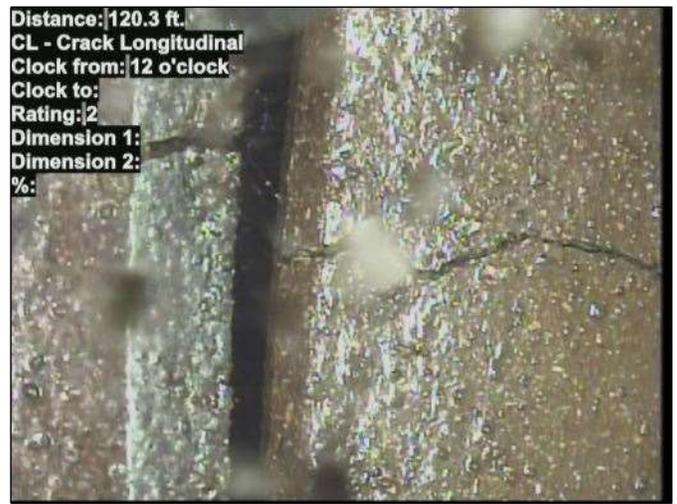


Distance: 120.3 ft.
CL - Crack Longitudinal
Clock from: 12 o'clock
Clock to:
Rating: 2
Dimension 1:
Dimension 2:
%:
Photo: SS06393-SS06394-20200624-125306-131305_2.JPG
At: 120.3 ft. 12/. CL - Crack Longitudinal
Joint: Yes



Distance: 120.3 ft.
CL - Crack Longitudinal
Clock from: 12 o'clock
Clock to:
Rating: 2
Dimension 1:
Dimension 2:
%:

Photo: SS06393-SS06394-20200624-125306-131305_1.JPG
At: 120.3 ft. 12/. CL - Crack Longitudinal
Joint: Yes



Distance: 120.3 ft.
CL - Crack Longitudinal
Clock from: 12 o'clock
Clock to:
Rating: 2
Dimension 1:
Dimension 2:
%:

Photo: SS06393-SS06394-20200624-125306-131305.JPG
At: 120.3 ft. 12/. CL - Crack Longitudinal
Joint: Yes



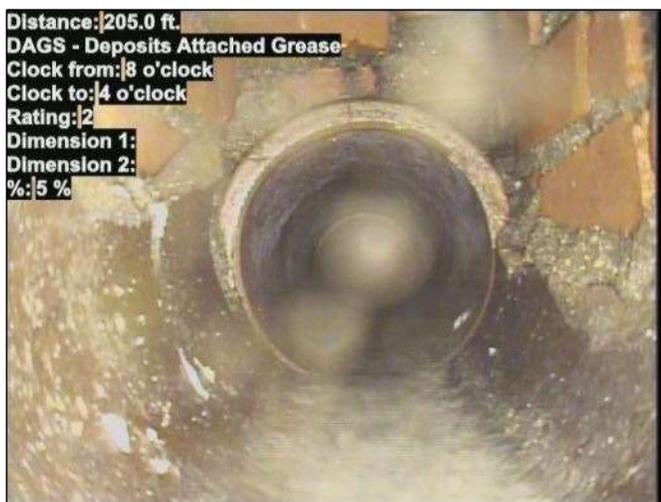
Distance: 131.8 ft.
CL - Crack Longitudinal
Clock from: 12 o'clock
Clock to:
Rating: 2
Dimension 1:
Dimension 2:
%:

Photo: SS06393-SS06394-20200624-125306-131426.JPG
At: 131.8 ft. 12/. CL - Crack Longitudinal
Joint: Yes



Distance: 171.6 ft.
CL - Crack Longitudinal
Clock from: 11 o'clock
Clock to:
Rating: 2
Dimension 1:
Dimension 2:
%:

Photo: SS06393-SS06394-20200624-125306-131800.JPG
At: 171.6 ft. 11/. CL - Crack Longitudinal
Joint: Yes



Distance: 205.0 ft.
DAGS - Deposits Attached Grease
Clock from: 8 o'clock
Clock to: 4 o'clock
Rating: 2
Dimension 1:
Dimension 2:
%: 5 %

Photo: SS06393-SS06394-20200624-125306-132146.JPG
At: 205 ft. 8/4 DAGS - Deposits Attached Grease
Joint: No 5 %



Distance: 205.0 ft.
AMH - Manhole
Clock from:
Clock to:
Rating:
Dimension 1:
Dimension 2:
%:

END SURVEY UPSTREAM MANHOLE

Photo: SS06393-SS06394-20200624-125306-132149.JPG
At: 205 ft. AMH - Manhole
Joint: No END SURVEY UPSTREAM MANHOLE



NWMCC INSPECTION REPORT

PACP Rating Description

<p><u>1:</u> Excellent Condition</p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u> Good Condition</p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u> Fair Condition</p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u> Poor Condition</p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u> Immediate Attention</p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>