

APPENDIX C
TV Inspection Logs

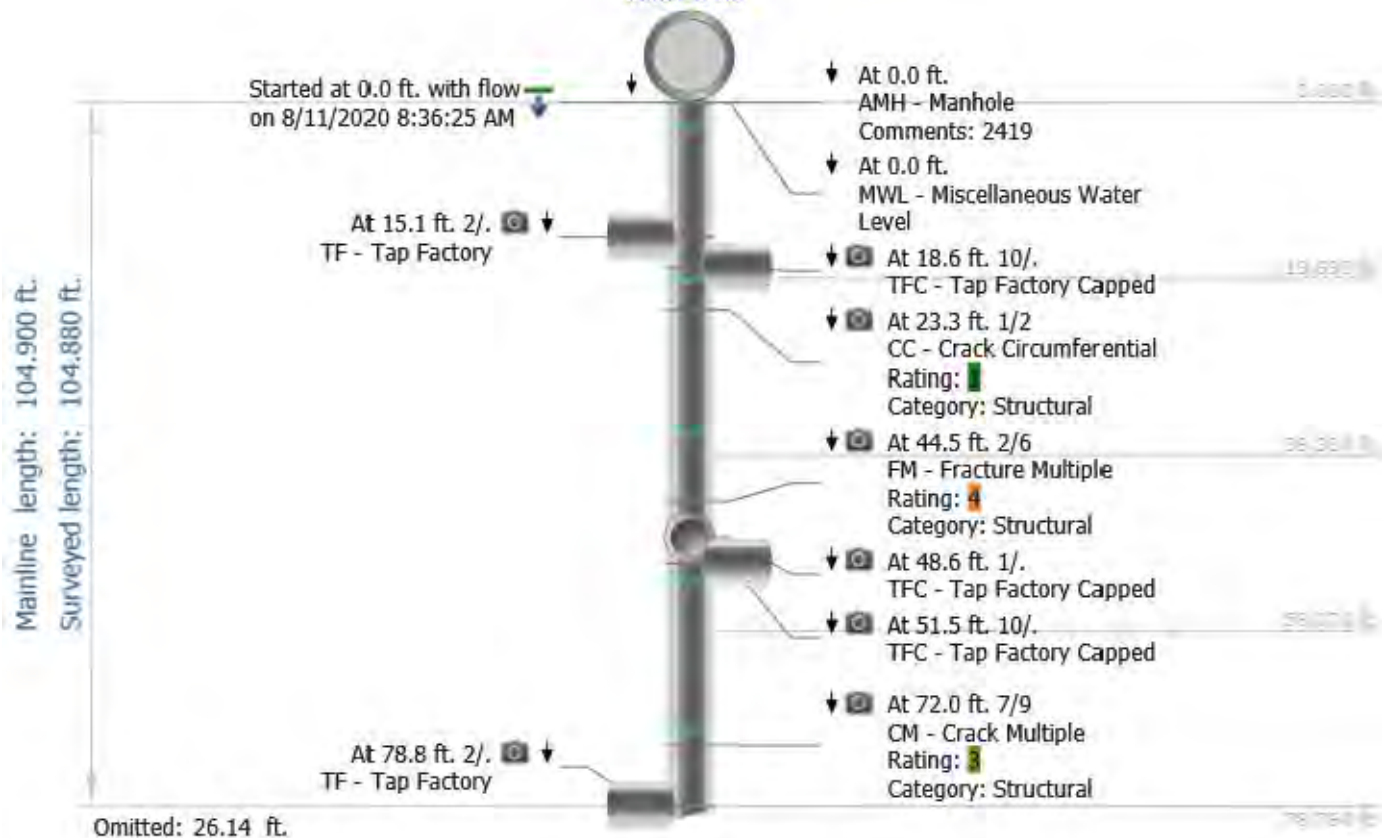
NWMCC INSPECTION REPORT

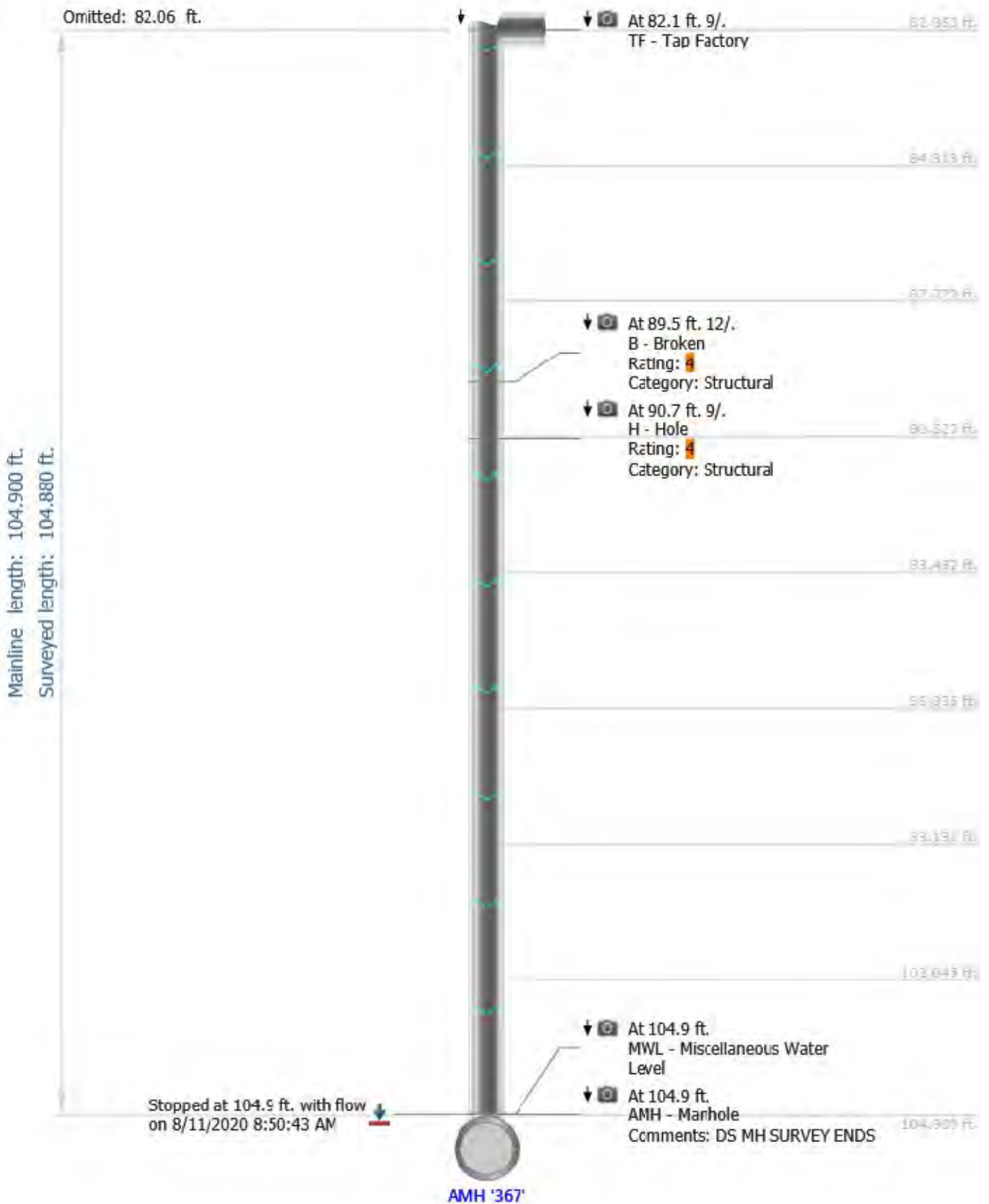
Start date/time: 20200811 08:36	Weather: Dry - No precipitation during survey	Surveyed by: J.HASHEM	Certificate number: 000-0000-0000	Pipe segment ref.: 2419-367
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: TIG001-23
City: VERNON CT	Street: CHESTNUT ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 2419	Downstream MH No: 367	Direction: D	Total length: 104.900 ft.	Length surveyed: 104.880 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	1	16	4331	3.2	0	0	0	0000	0.0	16	3.2	4.3	
2	0	0				0	0							
3	0	3				0	0							
4	0	12				0	0							
5	0	0				0	0							

AMH '2419'





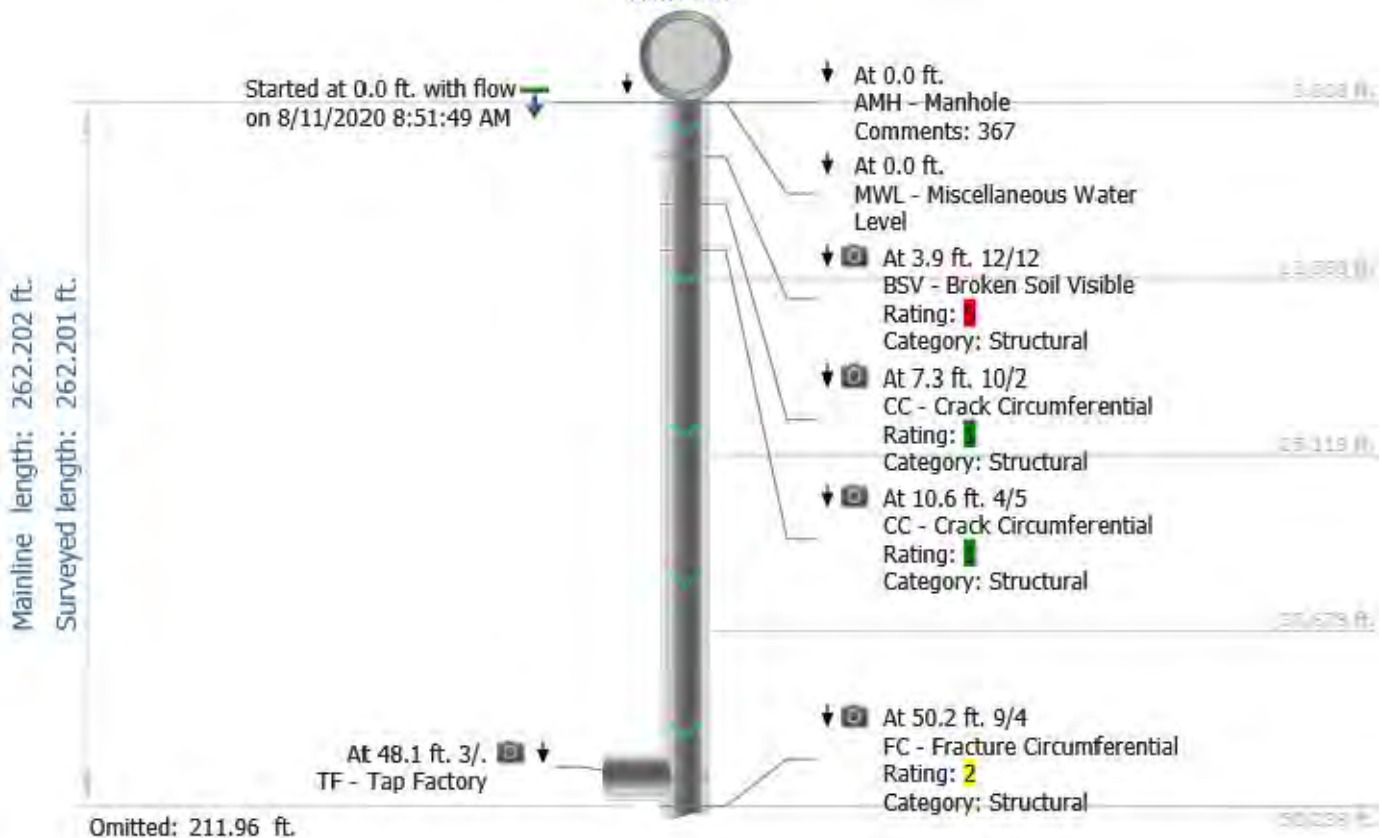
NWMCC INSPECTION REPORT

Start date/time: 20200811 08:51	Weather: Dry - No precipitation during survey	Surveyed by: J.HASHEM	Certificate number: 000-0000-0000	Pipe segment ref.: 367-366
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: TIG001-23
City: VERNON CT	Street: CHESTNUT ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 367	Downstream MH No: 366	Direction: D	Total length: 262.202 ft.	Length surveyed: 262.201 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Vitrified Clay Pipe	LateralsCounter: Additional info:

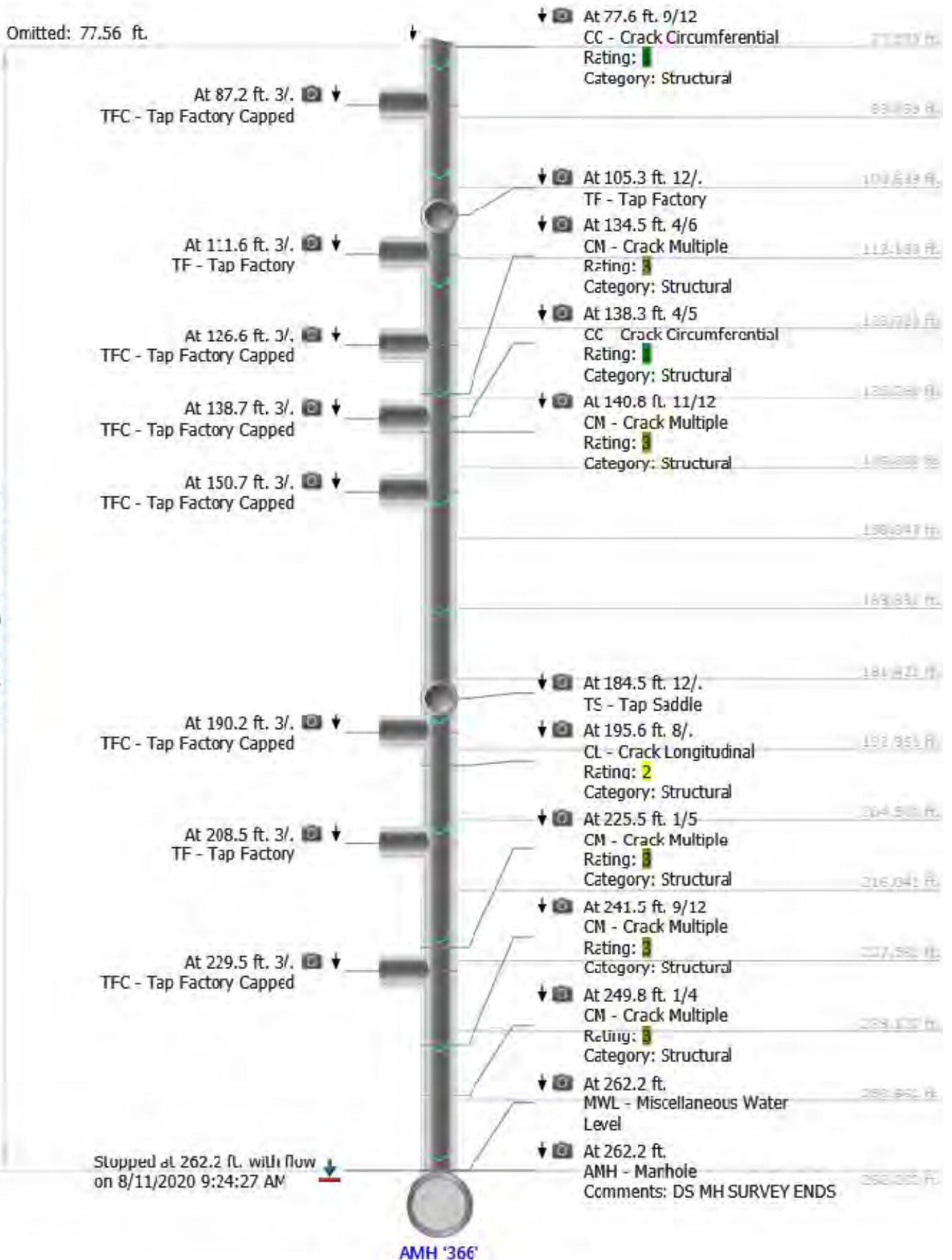
Pipe Ratings

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	4	28	5135	2.3	0	0	0	0000	0.0	28	2.3	5.1	
2	0	4				0	0							
3	0	15				0	0							
4	0	0				0	0							
5	0	5				0	0							

AMH '367'



Mainline length: 262.202 ft.
 Surveyed length: 262.201 ft.



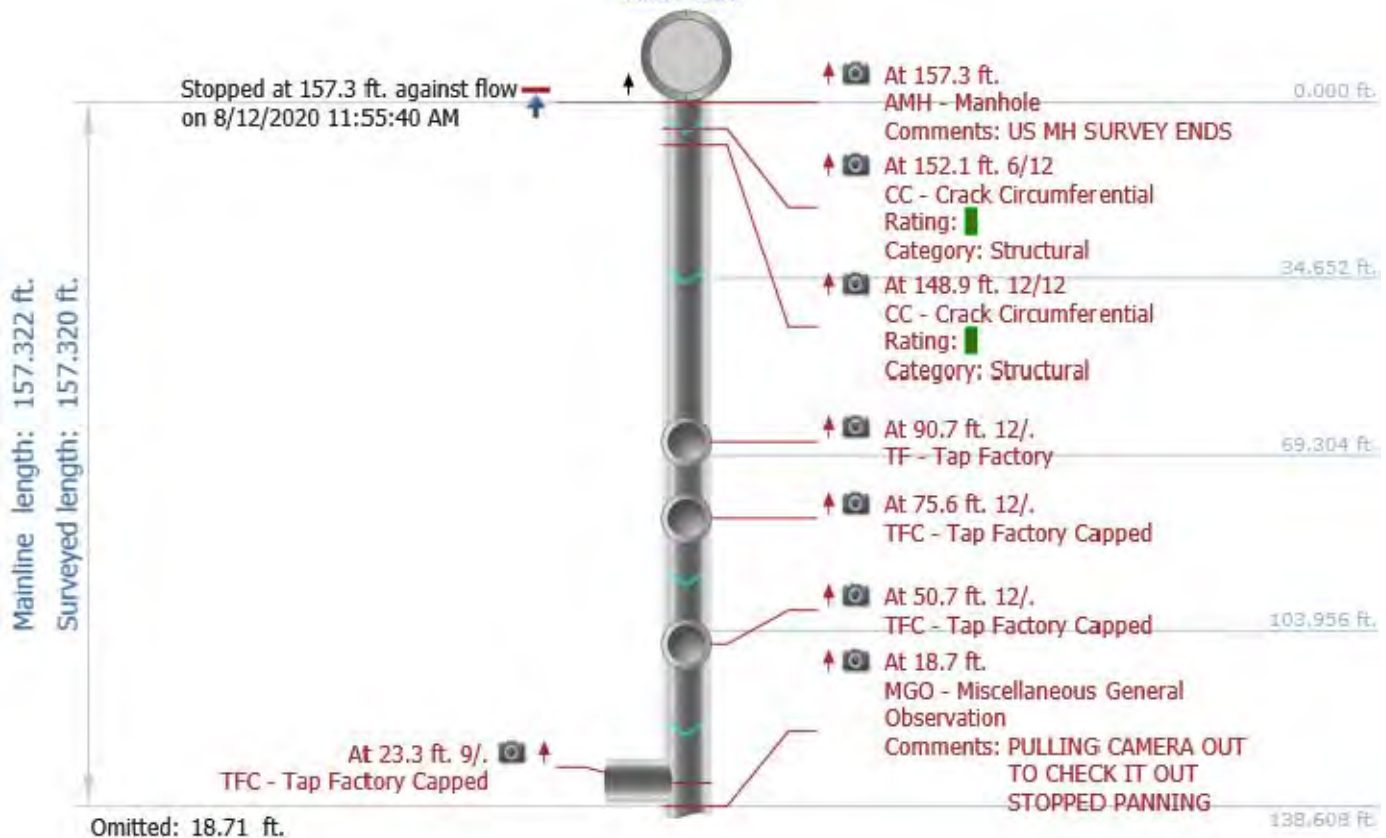
NWMCC INSPECTION REPORT

Start date/time: 20200812 11:33	Weather: Dry - No precipitation during survey	Surveyed by: alberto	Certificate number: u-0220-70308624	Pipe segment ref.: 1526-1958
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: TIG001-23
City: VERNON CT	Street: COTTAGE ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 1526	Downstream MH No: 1958	Direction: U	Total length: 157.322 ft.	Length surveyed: 157.320 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Vitrified Clay Pipe	LateralsCounter: Additional info: ACCIDENTALY TYPED IN WRONG MH #

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	2	6	4112	2.0	0	0	0	0000	0.0	6	2.0	4.1	
2	0	0				0	0							
3	0	0				0	0							
4	0	4				0	0							
5	0	0				0	0							

AMH '1526'



Mainline length: 157.322 ft.
Surveyed length: 157.320 ft.

Omitted: 138.61 ft.

Started at 0.0 ft. against flow
on 8/12/2020 11:33:07 AM

AMH '1958'



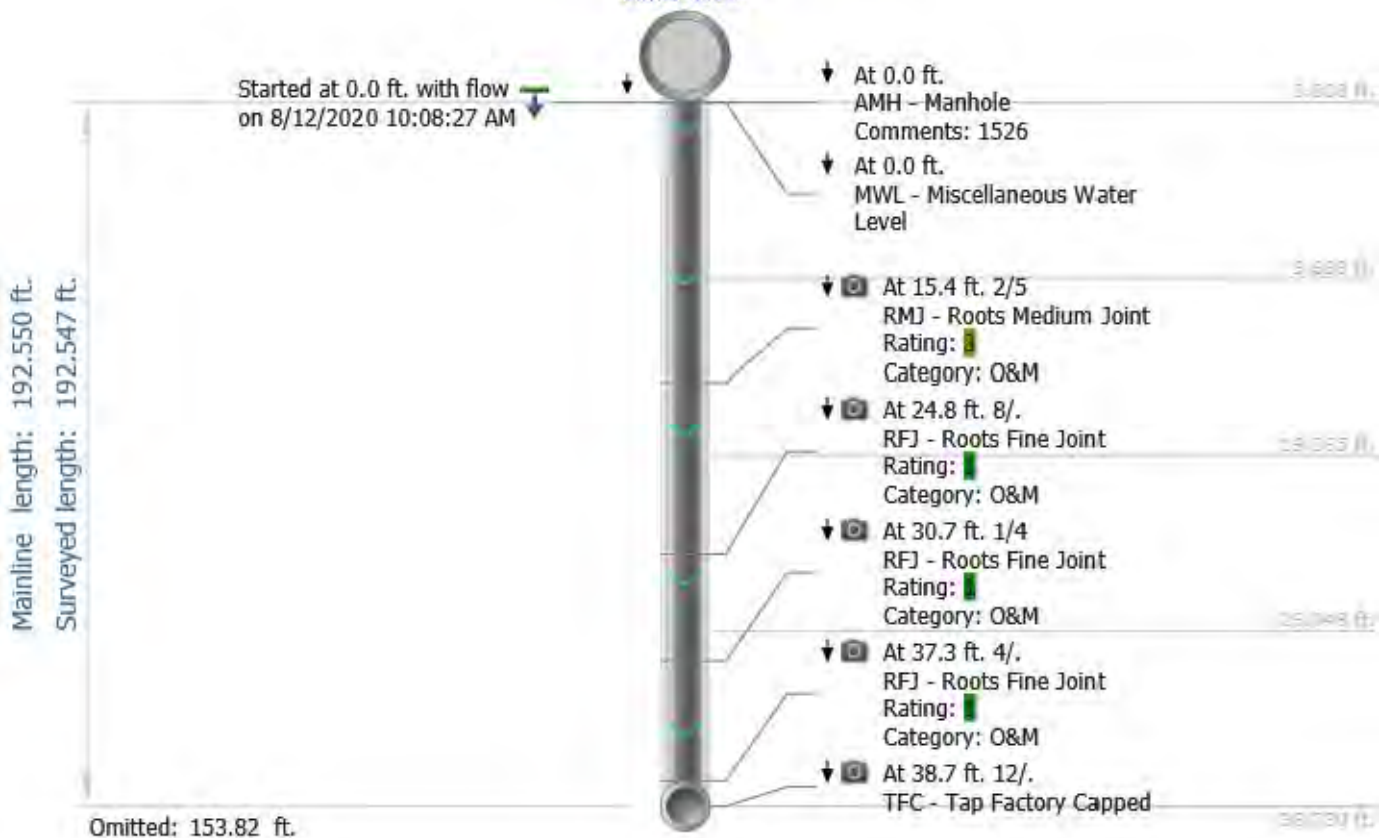
NWMCC INSPECTION REPORT

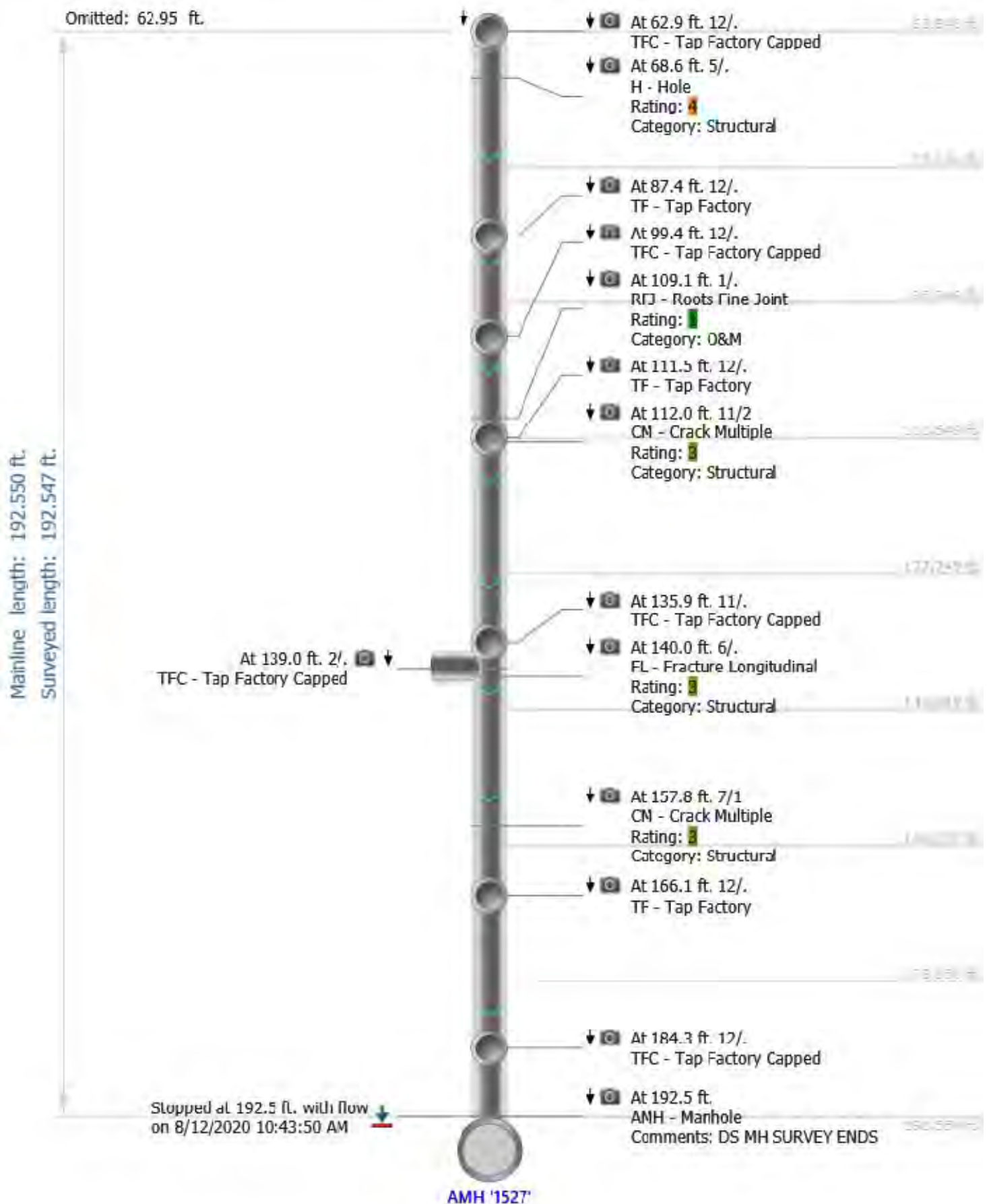
Start date/time: 20200812 10:08	Weather: Dry - No precipitation during survey	Surveyed by: alberto	Certificate number: u-0220-70308624	Pipe segment ref.: 1526-1527
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: TIG001-23
City: VERNON CT	Street: COTTAGE ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 1526	Downstream MH No: 1527	Direction: D	Total length: 192.550 ft.	Length surveyed: 192.547 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	13	4133	3.2	0	4	7	3114	1.4	20	2.2	4.1	
2	0	0				0	0							
3	0	9				0	3							
4	0	4				0	0							
5	0	0				0	0							

AMH '1526'





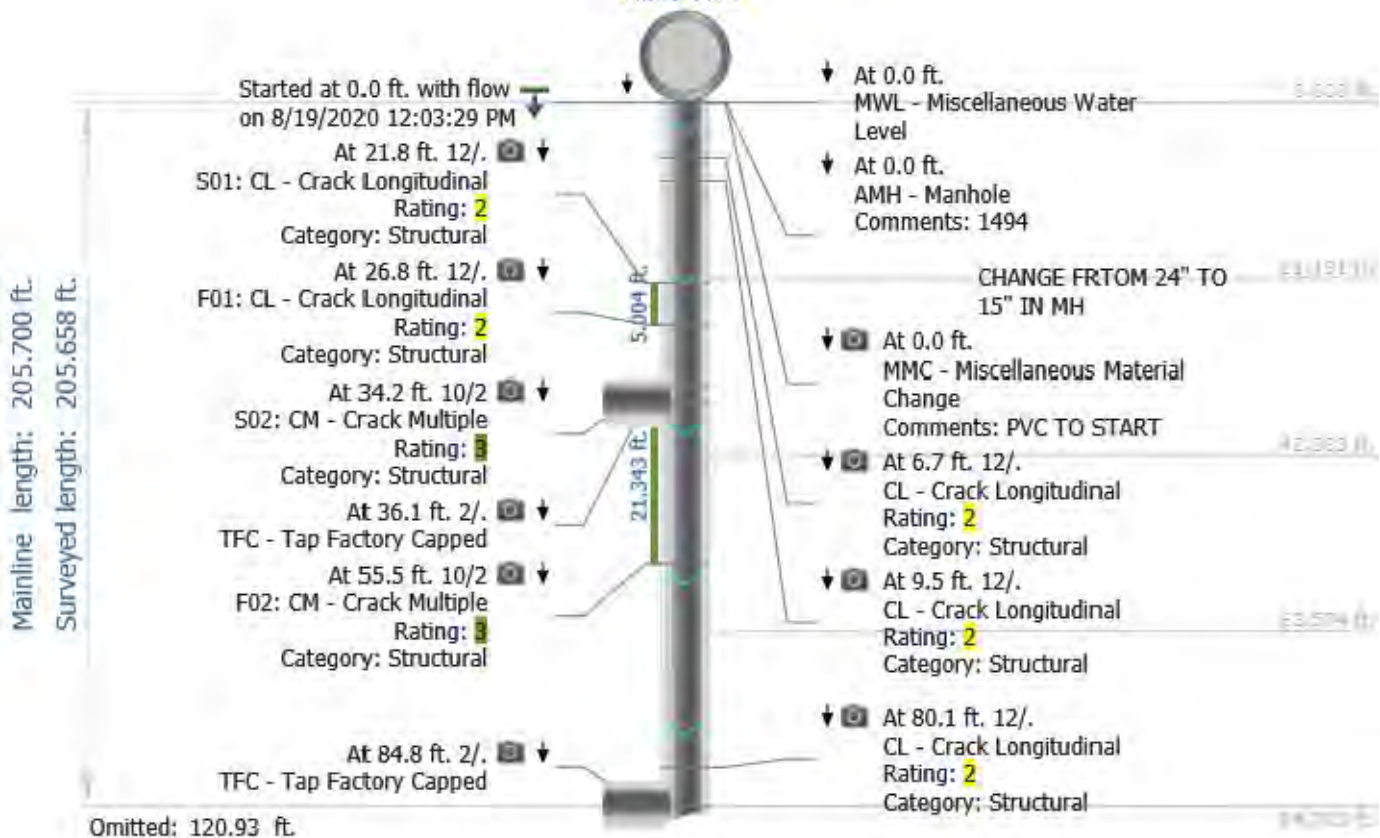
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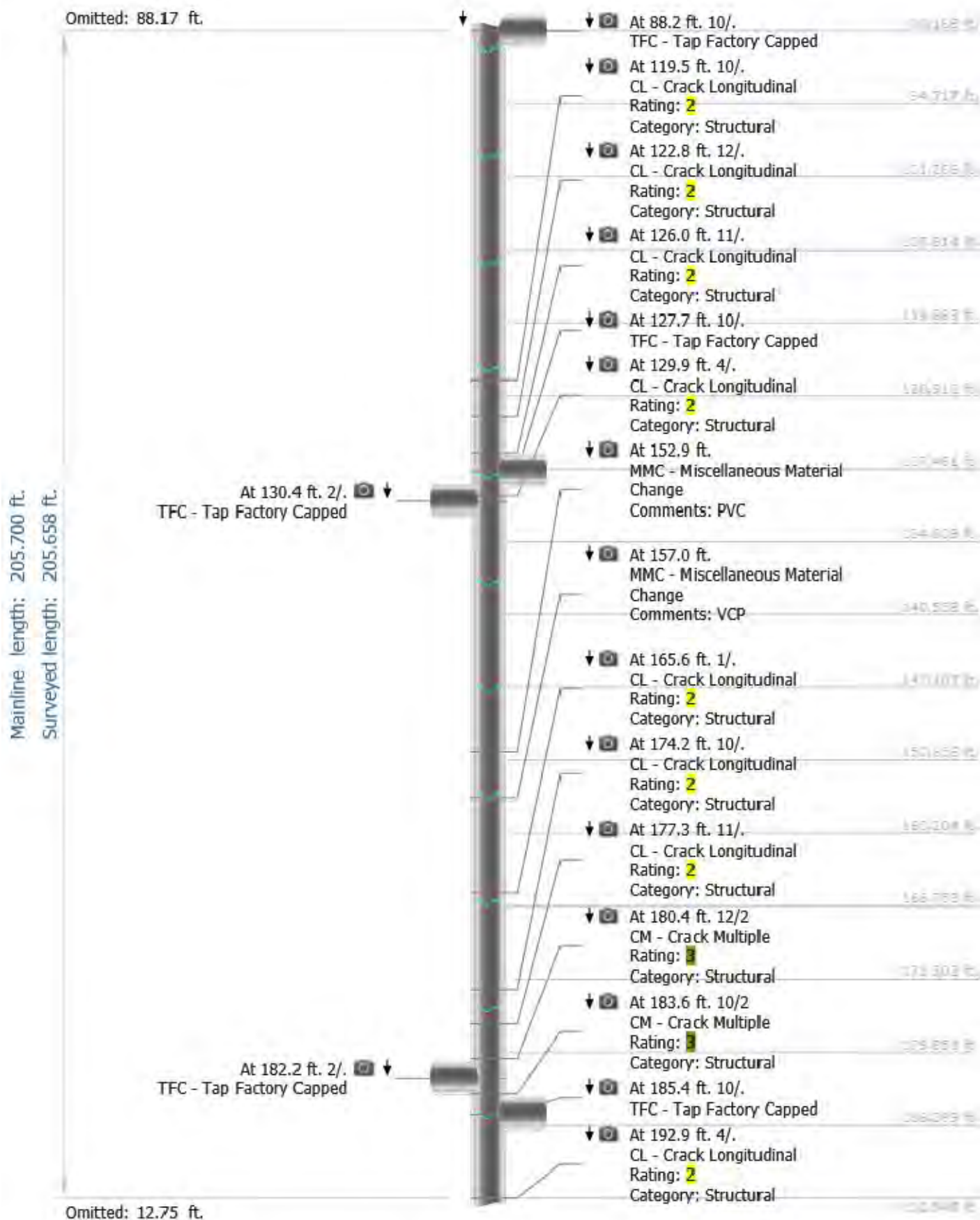
Start date/time: 20200819 12:03	Weather: Dry - No precipitation during survey	Surveyed by: J.HASHEM	Certificate number: 000-0000-0000	Pipe segment ref.: 1494/151
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: TIG001-23
City: VERNON CT	Street: EAST MAIN ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 1494	Downstream MH No: 151	Direction: D	Total length: 205.700 ft.	Length surveyed: 205.658 ft.
Purpose: Maintenance Related	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	42	362A	2.3	0	0	0	0000	0.0	42	2.3	3.6	
2	0	24				0	0							
3	0	18				0	0							
4	0	0				0	0							
5	0	0				0	0							

AMH '1494'





Mainline length: 205,700 ft.
Surveyed length: 205,658 ft.

Omitted: 197.65 ft.

At 197.7 ft. 10/
TFC - Tap Factory Capped

197.651 ft.

198.657 ft.

199.663 ft.

200.669 ft.

201.676 ft.

202.682 ft.

203.688 ft.

204.694 ft.

Stopped at 205.7 ft. with flow
on 8/19/2020 12:22:16 PM

At 205.7 ft.
AMH - Manhole
Comments: 151

205.700 ft.

END OF SURVEY

AMH '15'

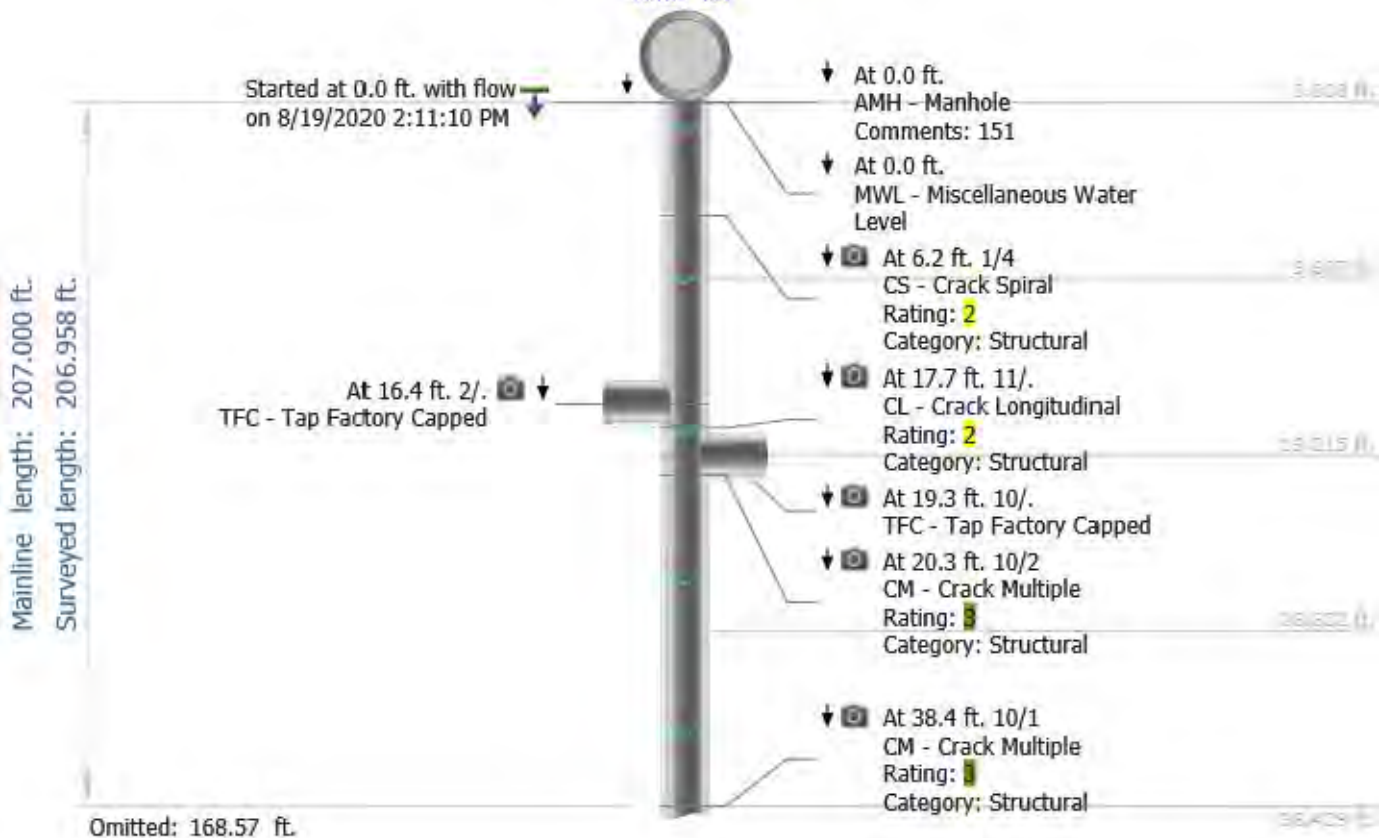
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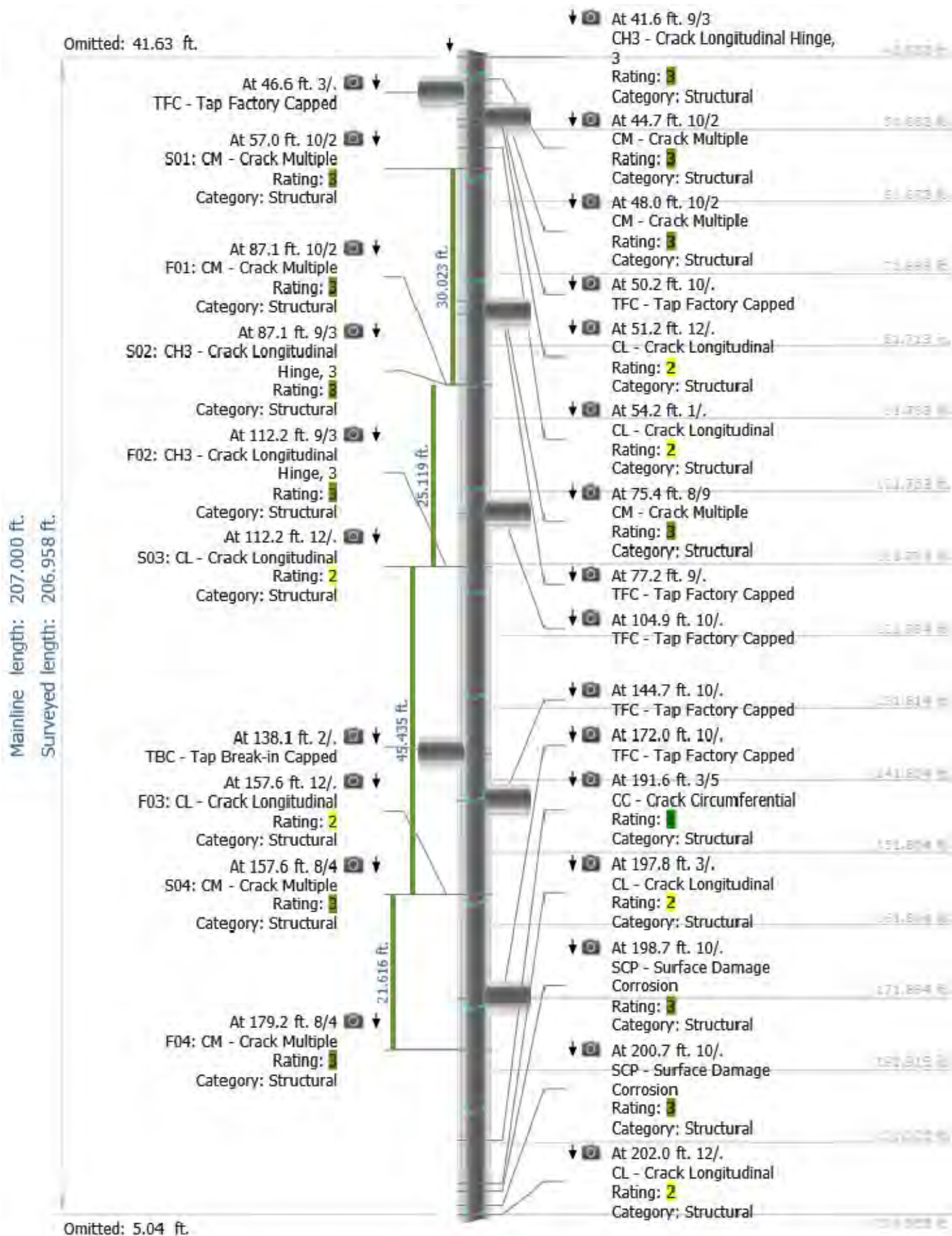
Start date/time: 20200819 14:11	Weather: Dry - No precipitation during survey	Surveyed by: J.HASHEM	Certificate number: 000-0000-0000	Pipe segment ref.: 151/887
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: TIG001-23
City: VERNON CT	Street: EAST MAIN ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 151	Downstream MH No: 887	Direction: D	Total length: 207.000 ft.	Length surveyed: 206.958 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 15 in.	Material: Vitrified Clay Pipe	LateralsCounter: Additional info:

Pipe Ratings

Grade	Defects	Segment Grade	Structural:			Defects	Segment Grade	O&M:			Pipe Rating	Overall:		
			Pipe Rating	Quick Rating	Pipe Rating Index			Pipe Rating	Quick Rating	Pipe Rating Index		Pipe Rating	Pipe Rating Index	LoF Risk
1	0	1	100	3C2B	2.6	0	0	0	0000	0.0	100	2.6	4.0	
2	0	30				0	0							
3	0	69				0	0							
4	0	0				0	0							
5	0	0				0	0							

AMH '151'





Mainline length: 207.000 ft.
Surveyed length: 206.958 ft.

Omitted: 206.96 ft.

Stopped at 207.0 ft. with flow
on 8/19/2020 2:29:32 PM

At 207.0 ft.
AMH - Manhole
Comments: 151

END OF SURVEY

206.958 ft.

206.953 ft.

206.959 ft.

206.974 ft.

206.979 ft.

206.984 ft.

206.990 ft.

206.995 ft.

207.000 ft.

AMH '887'

NWMCC INSPECTION REPORT

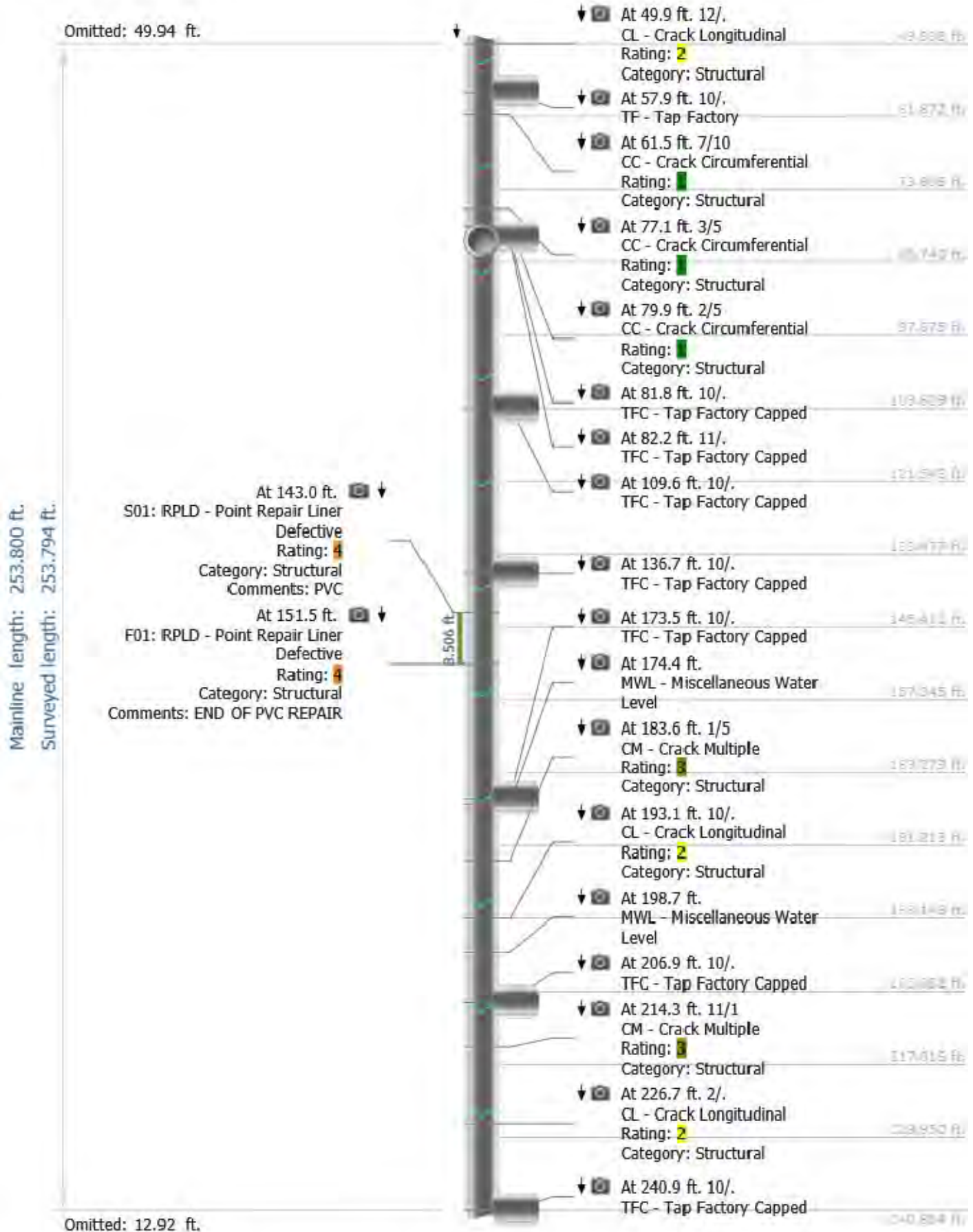
Start date/time: 20200819 14:30	Weather: Dry - No precipitation during survey	Surveyed by: J.HASHEM	Certificate number: 000-0000-0000	Pipe segment ref.: 887/1750
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: TIG001-23
City: VERNON CT	Street: EAST MAIN ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 887	Downstream MH No: 1750	Direction: D	Total length: 253.800 ft.	Length surveyed: 253.794 ft.
Purpose: Maintenance Related	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	3	30	4233	2.3	0	0	0	0000	0.0	30	2.3	4.2	
2	0	10				0	0							
3	0	9				0	0							
4	0	8				0	0							
5	0	0				0	0							

AMH '887'







NWMCC INSPECTION REPORT

Start date/time: 20200819 14:50	Weather: Dry - No precipitation during survey	Surveyed by: J.HASHEM	Certificate number: 000-0000-0000	Pipe segment ref.: 1750/1749
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: TIG001-23
City: VERNON CT	Street: EAST MAIN ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 1750	Downstream MH No: 1749	Direction: D	Total length: 267.406 ft.	Length surveyed: 267.405 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 15 in.	Material: Vitrified Clay Pipe	LateralsCounter: Additional info:

Pipe Ratings

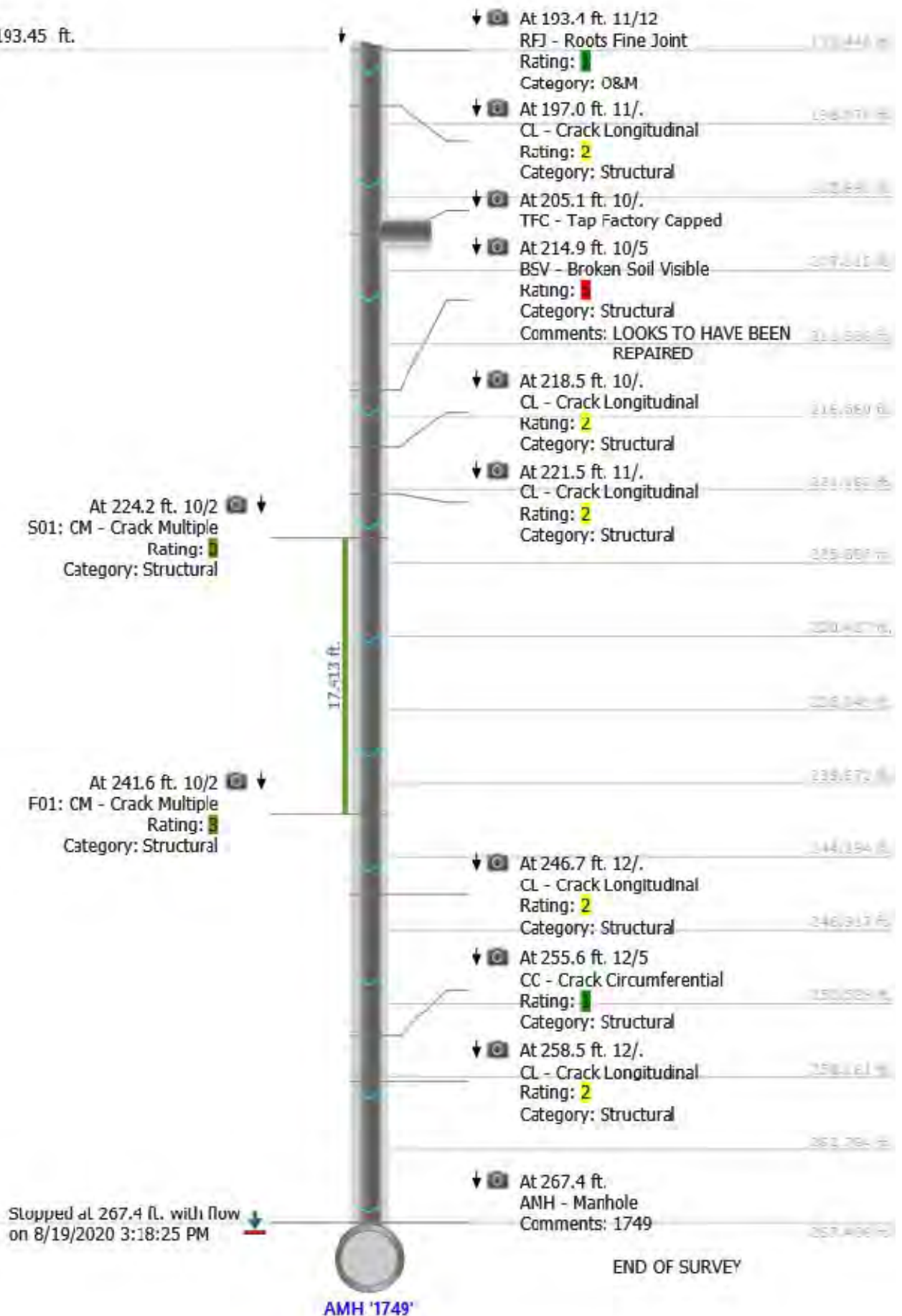
Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	4	28	5133	2.2	0	1	1	1100	1.0	29	2.1	5.1	
2	0	10				0	0							
3	0	9				0	0							
4	0	0				0	0							
5	0	5				0	0							

AMH '1750'



Mainline length: 267.406 ft.
 Surveyed length: 267.405 ft.

Omitted: 193.45 ft.



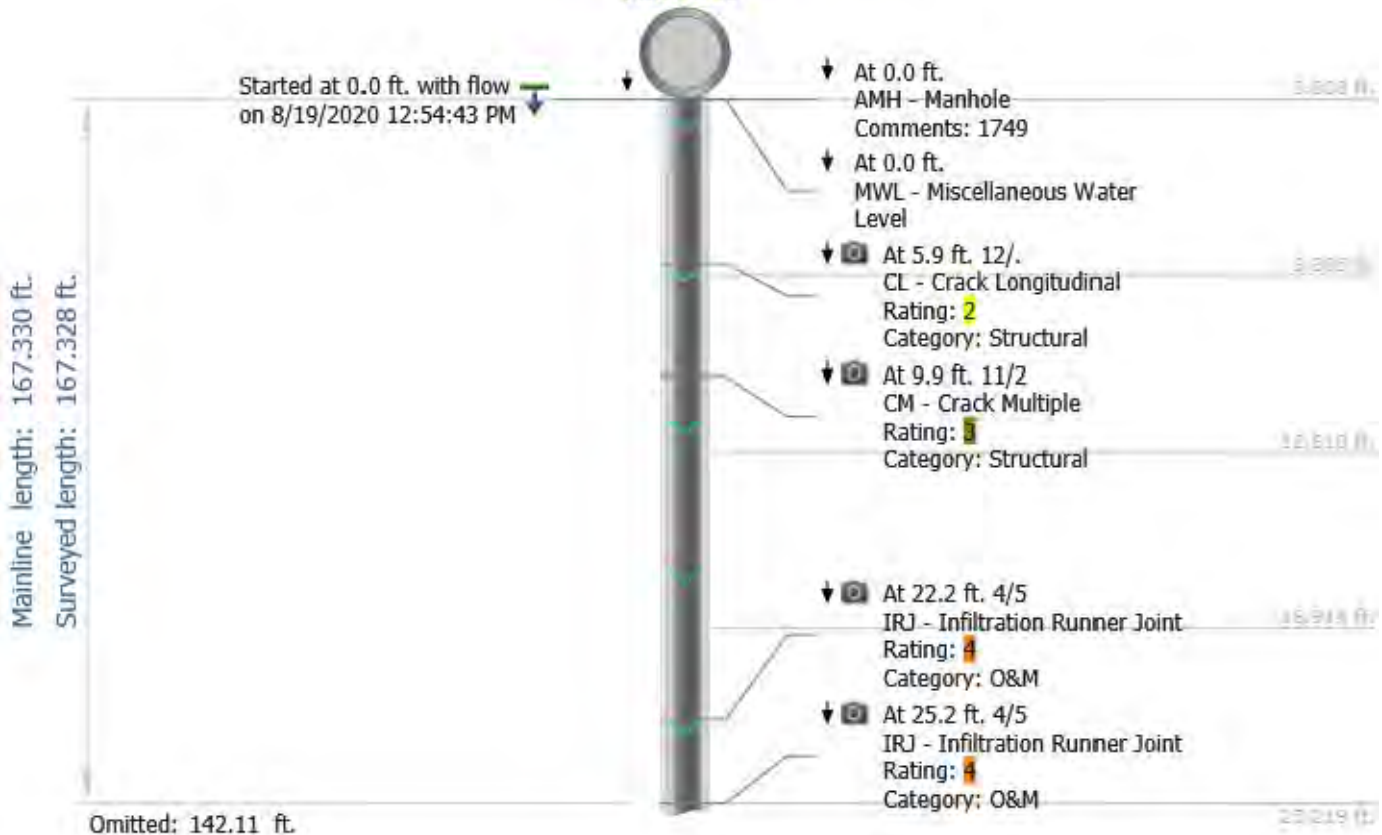
NWMCC INSPECTION REPORT

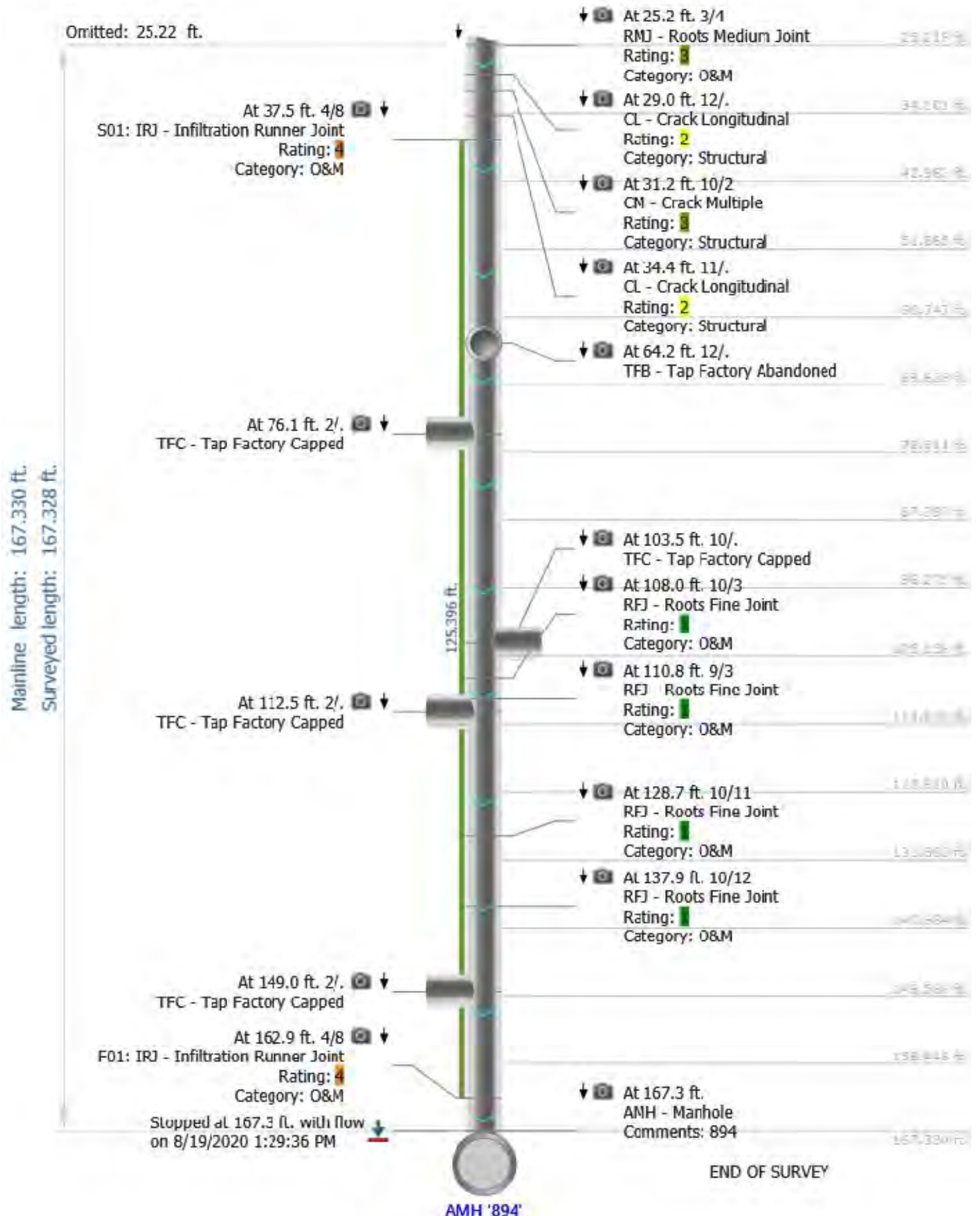
Start date/time: 20200819 12:54	Weather: Dry - No precipitation during survey	Surveyed by: J.HASHEM	Certificate number: 000-0000-0000	Pipe segment ref.: 1749/894
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: TIG001-23
City: VERNON CT	Street: EAST MAIN ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 1749	Downstream MH No: 894	Direction: D	Total length: 167.330 ft.	Length surveyed: 167.328 ft.
Purpose: Maintenance Related	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	12	3223	2.4	0	4	115	4D31	3.6	127	3.4	5.0	
2	0	6				0	0							
3	0	6				0	3							
4	0	0				0	108							
5	0	0				0	0							

AMH '1749'



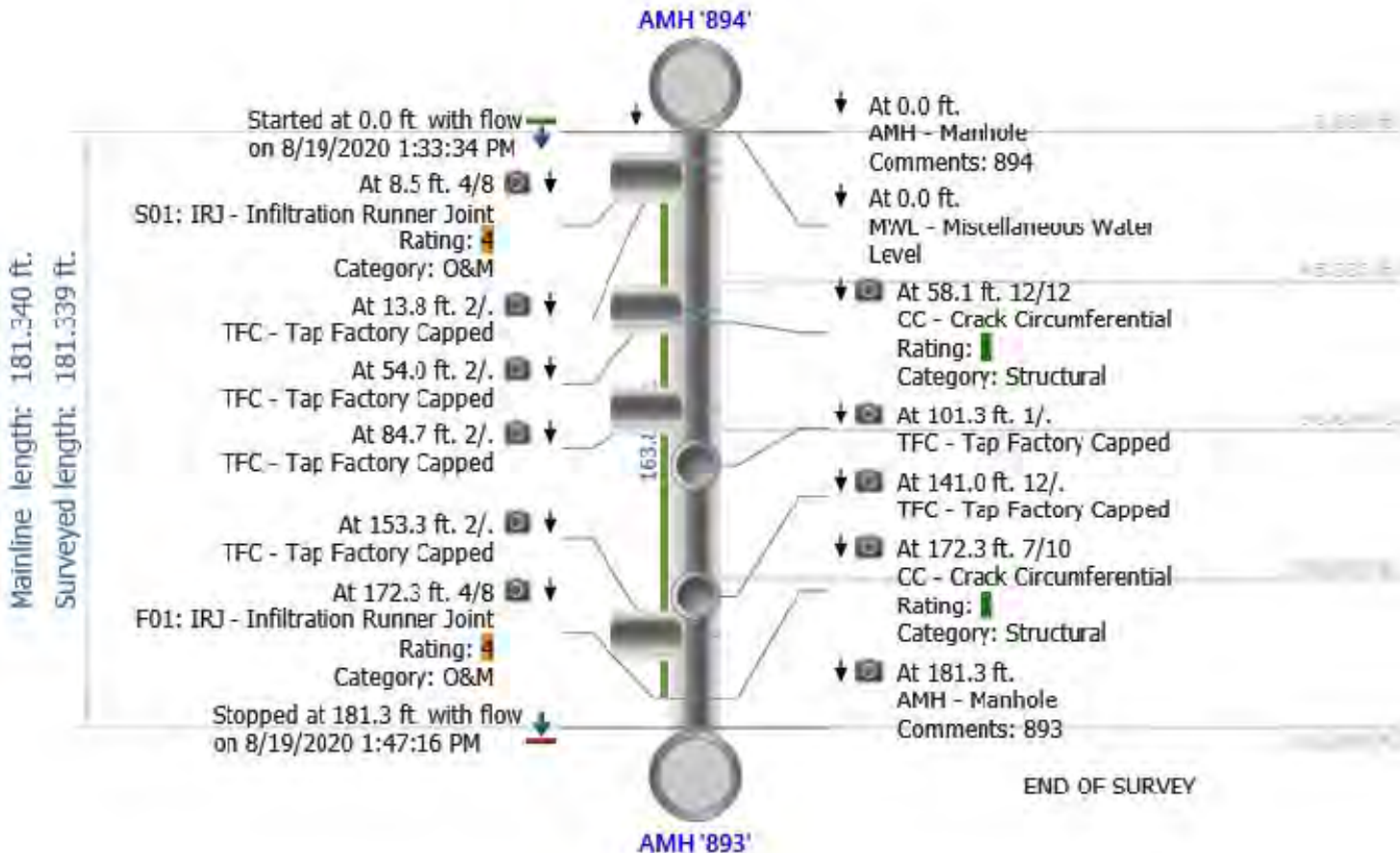


NWMCC INSPECTION REPORT

Start date/time: 20200819 13:33	Weather: Dry - No precipitation during survey	Surveyed by: J.HASHEM	Certificate number: 000-0000-0000	Pipe segment ref.: 894/893
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: TIG001-23
City: VERNON CT	Street: MAIN ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 894	Downstream MH No: 893	Direction: D	Total length: 181.340 ft.	Length surveyed: 181.339 ft.
Purpose: Maintenance Related	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	2	2	1200	1.0	0	0	132	4E00	4.0	134	3.8	5.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	132							
5	0	0				0	0							

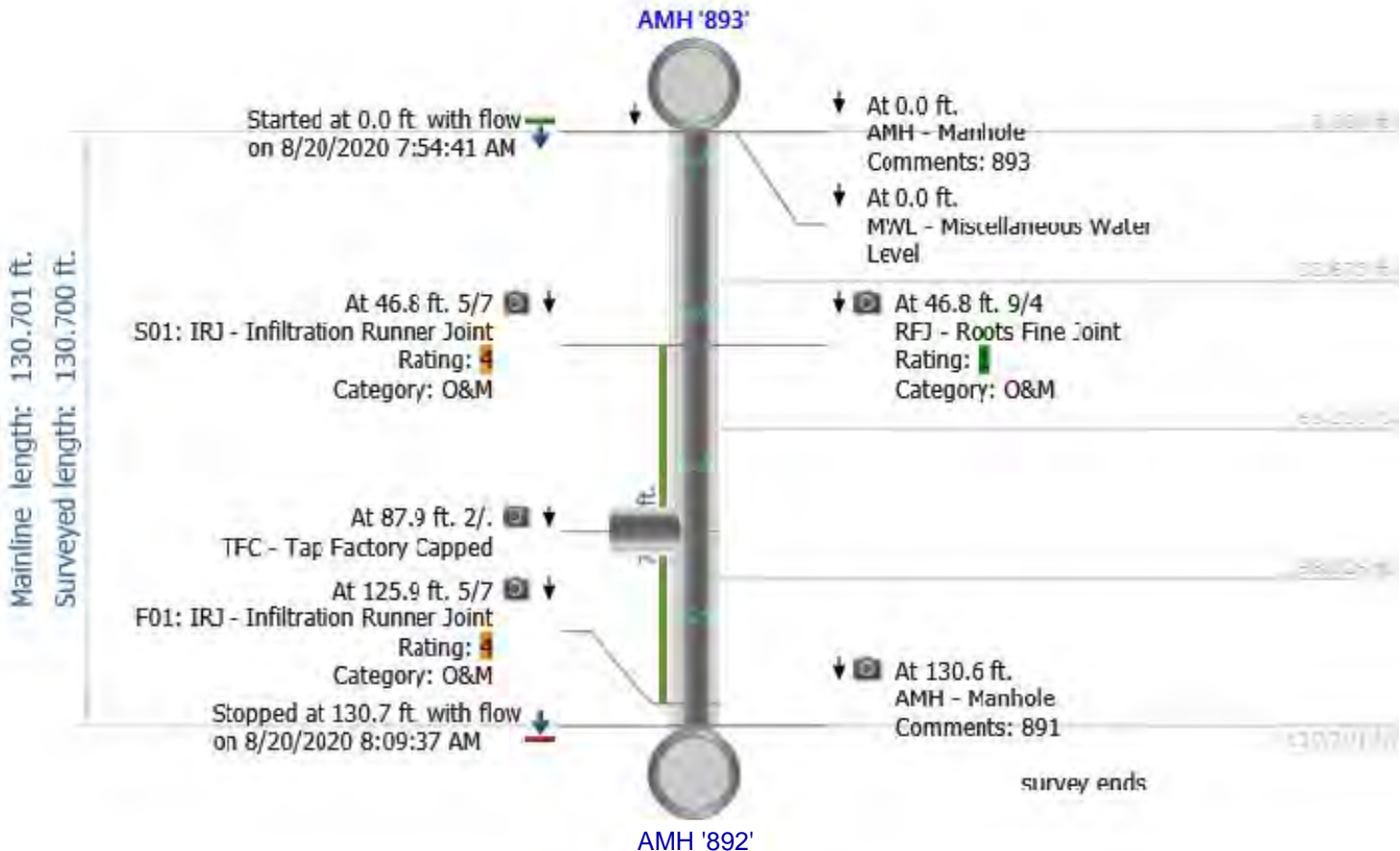


NWMCC INSPECTION REPORT

Start date/time: 20200820 07:54	Weather: Dry - No precipitation during survey	Surveyed by: K.Lang	Certificate number: UO-200-70308438	Pipe segment ref.: 893-892
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: TIG001-23
City: Vernon	Street: Main ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 893	Downstream MH No: 891	Direction: D	Total length: 130.701 ft.	Length surveyed: 130.700 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 15 in.	Material: Vitrified Clay Pipe	LateralsCounter: Additional info: manhole correction

Pipe Ratings

Grade	Defects	Segment Grade	Structural:			Defects	Segment Grade	O&M:			Pipe Rating	Overall:		
			Pipe Rating	Quick Rating	Pipe Rating Index			Pipe Rating	Quick Rating	Pipe Rating Index		Pipe Rating	Pipe Rating Index	LoF
1	0	0	0	0000	0.0	0	1	65	4B11	3.8	65	3.8	5.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	64							
5	0	0				0	0							

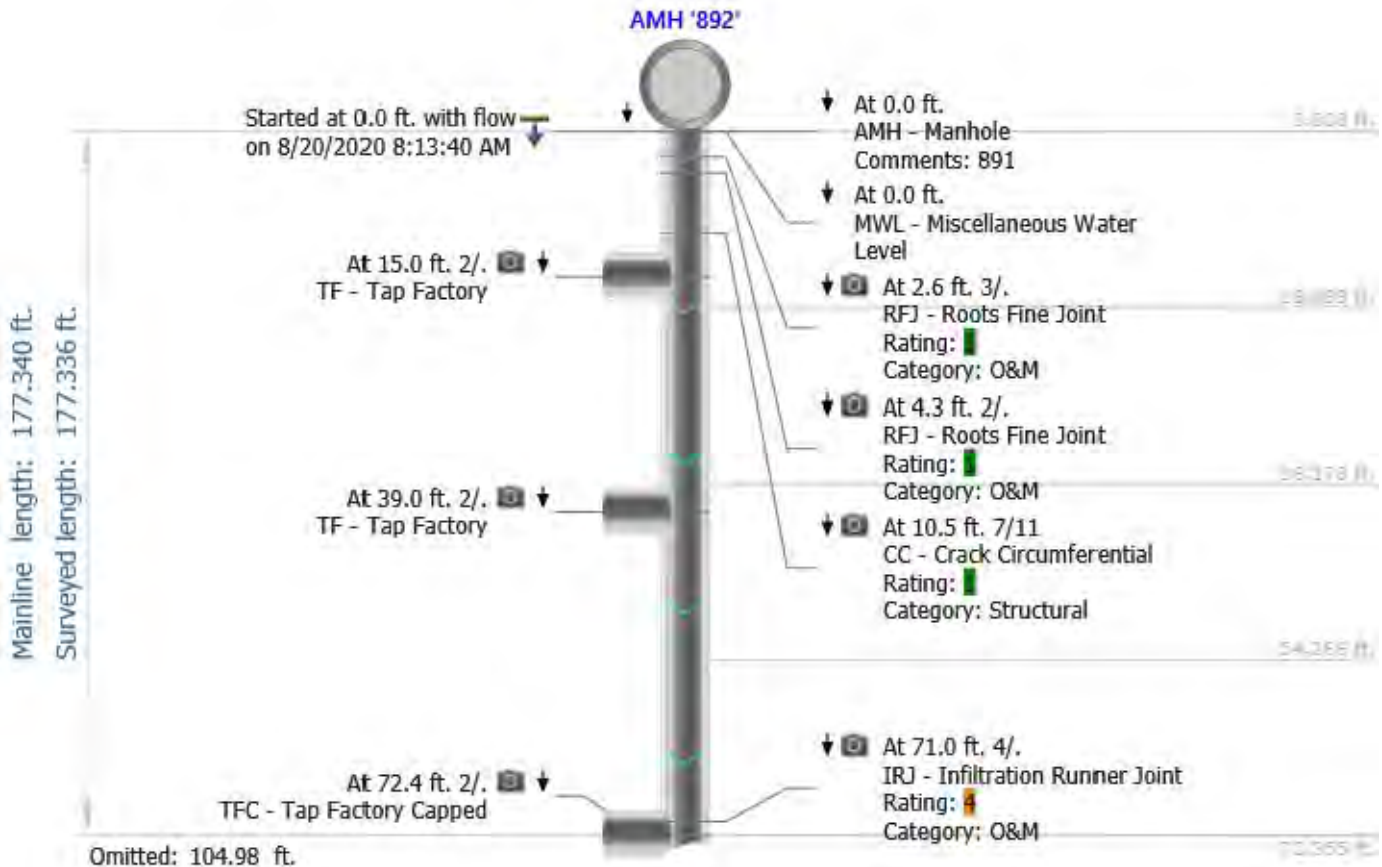


NWMCC INSPECTION REPORT

Start date/time: 20200820 08:13	Weather: Dry - No precipitation during survey	Surveyed by: K.Lang	Certificate number: UO-200-70308438	Pipe segment ref.: 892-891
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: TIG001-23
City: Vernon	Street: Main ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 892	Downstream MH No: 891	Direction: D	Total length: 177.340 ft.	Length surveyed: 177.336 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 15 in.	Material: Vitrified Clay Pipe	LateralsCounter: Additional info: manhole correction 892-891

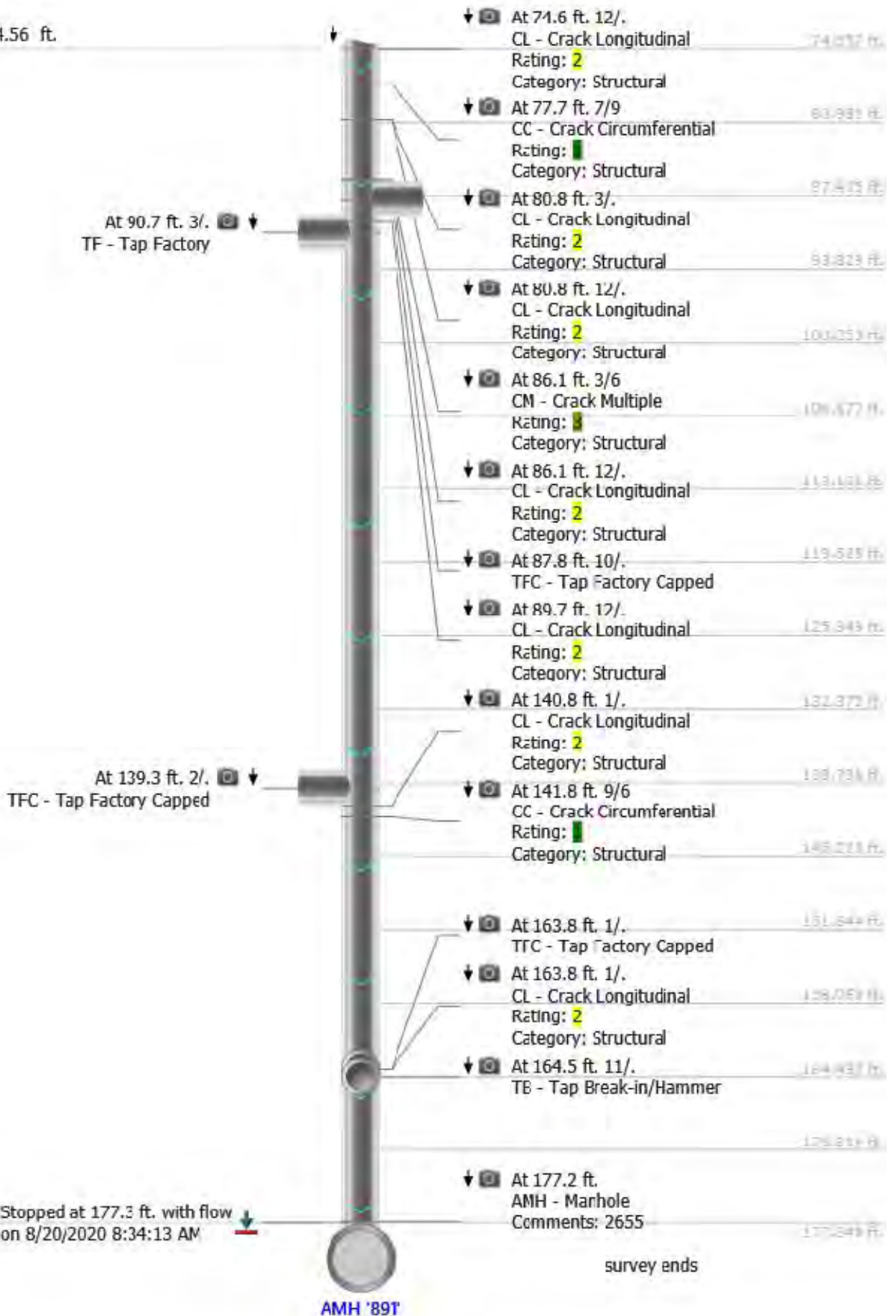
Pipe Ratings

Grade	Defects	Segment Grade	Structural:			Defects	Segment Grade	O&M:			Pipe Rating	Overall:		
			Pipe Rating	Quick Rating	Pipe Rating Index			Pipe Rating	Quick Rating	Pipe Rating Index		Pipe Rating	Pipe Rating Index	LoF Risk
1	0	3	20	3127	1.8	0	2	6	4112	2.0	26	1.9	4.1	
2	0	14				0	0							
3	0	3				0	0							
4	0	0				0	4							
5	0	0				0	0							



Mainline length: 177.340 ft.
 Surveyed length: 177.336 ft.

Omitted: 74.56 ft.

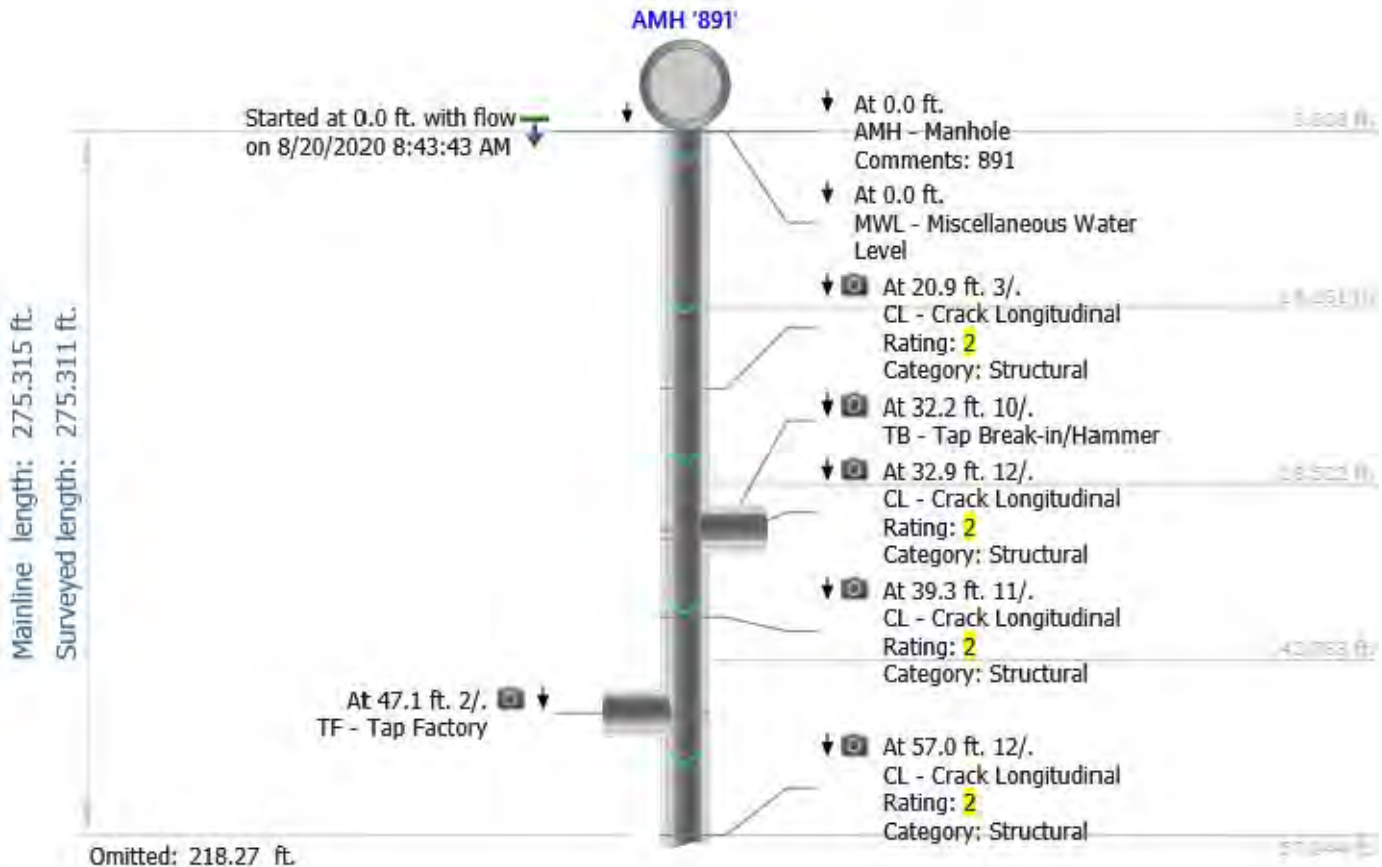


NWMCC INSPECTION REPORT

Start date/time: 20200820 08:43	Weather: Dry - No precipitation during survey	Surveyed by: K.Lang	Certificate number: UO-200-70308438	Pipe segment ref.: 891-2655
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: TIG001-23
City: Vernon	Street: Main ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 891	Downstream MH No: 2655	Direction: D	Total length: 275.315 ft.	Length surveyed: 275.311 ft.
Purpose: Maintenance Related	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	3	40	312B	1.9	0	25	29	221D	1.1	69	1.4	3.1	
2	0	34				0	4							
3	0	3				0	0							
4	0	0				0	0							
5	0	0				0	0							



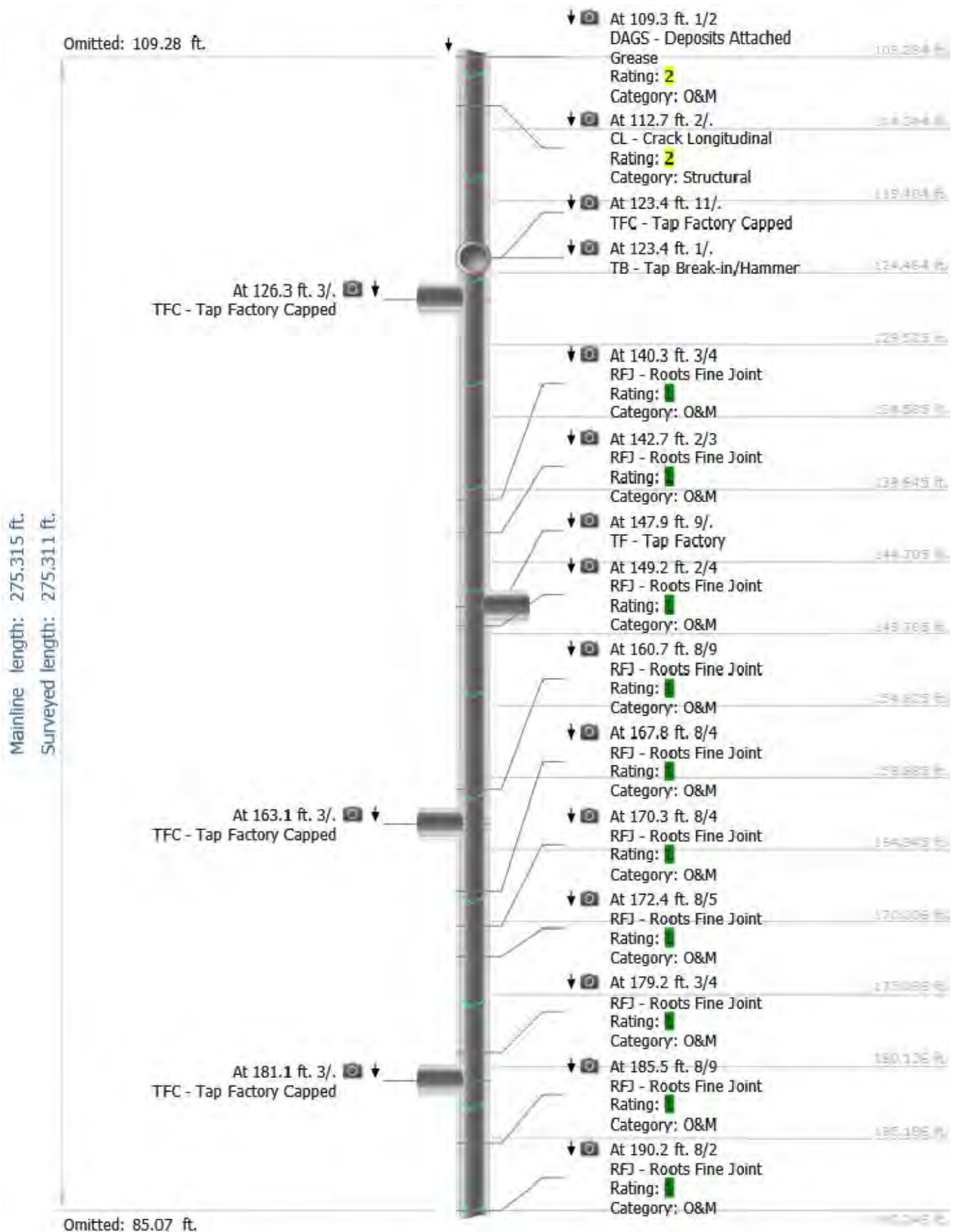
Mainline length: 275,315 ft.
 Surveyed length: 275,311 ft.

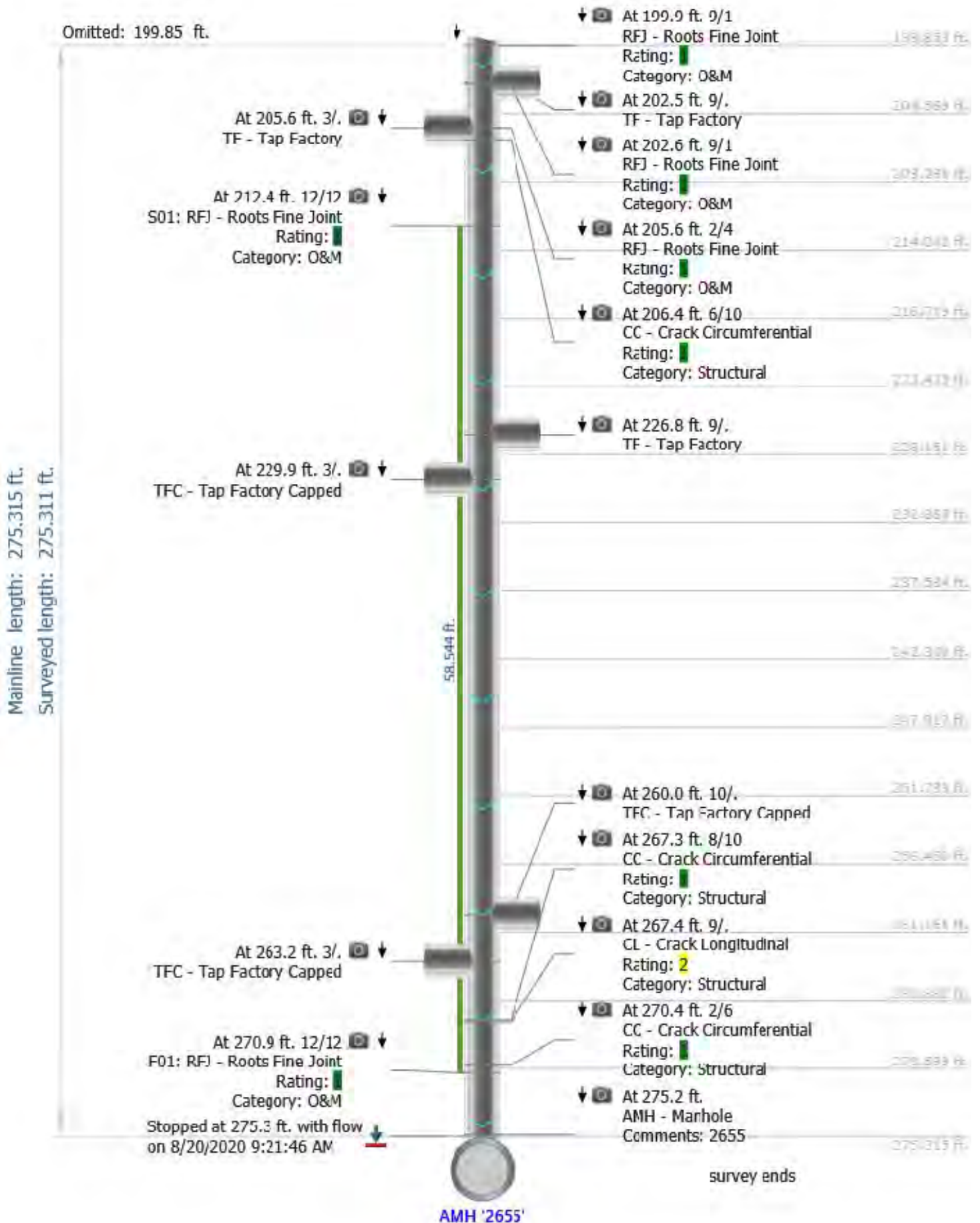
Omitted: 60.25 ft.

At 105.2 ft. 3/.
 TF - Tap Factory

Omitted: 166.13 ft.

At 60.2 ft. 12/3	60.255 ft.
CM - Crack Multiple	
Rating: 3	
Category: Structural	
At 63.4 ft. 1/.	63.308 ft.
CL - Crack Longitudinal	
Rating: 2	
Category: Structural	
At 69.2 ft. 2/.	69.383 ft.
CL - Crack Longitudinal	
Rating: 2	
Category: Structural	
At 69.8 ft. 9/.	69.404 ft.
CL - Crack Longitudinal	
Rating: 2	
Category: Structural	72.481 ft.
At 77.7 ft. 9/.	75.563 ft.
TF - Tap Factory	
At 86.3 ft. 11/.	78.598 ft.
CL - Crack Longitudinal	
Rating: 2	
Category: Structural	
At 88.0 ft. 2/.	81.666 ft.
CL - Crack Longitudinal	
Rating: 2	
Category: Structural	
At 91.4 ft. 8/9	94.715 ft.
DAGS - Deposits Attached Grease	
Rating: 2	
Category: O&M	97.794 ft.
At 93.9 ft. 11/.	98.563 ft.
CL - Crack Longitudinal	
Rating: 2	
Category: Structural	
At 97.2 ft. 2/.	99.691 ft.
CL - Crack Longitudinal	
Rating: 2	
Category: Structural	
At 100.8 ft. 2/.	99.808 ft.
CL - Crack Longitudinal	
Rating: 2	
Category: Structural	
At 102.1 ft. 10/.	100.002 ft.
CL - Crack Longitudinal	
Rating: 2	
Category: Structural	
At 106.1 ft. 2/.	105.057 ft.
CL - Crack Longitudinal	
Rating: 2	
Category: Structural	106.123 ft.
At 109.2 ft. 1/.	
CL - Crack Longitudinal	
Rating: 2	
Category: Structural	108.164 ft.





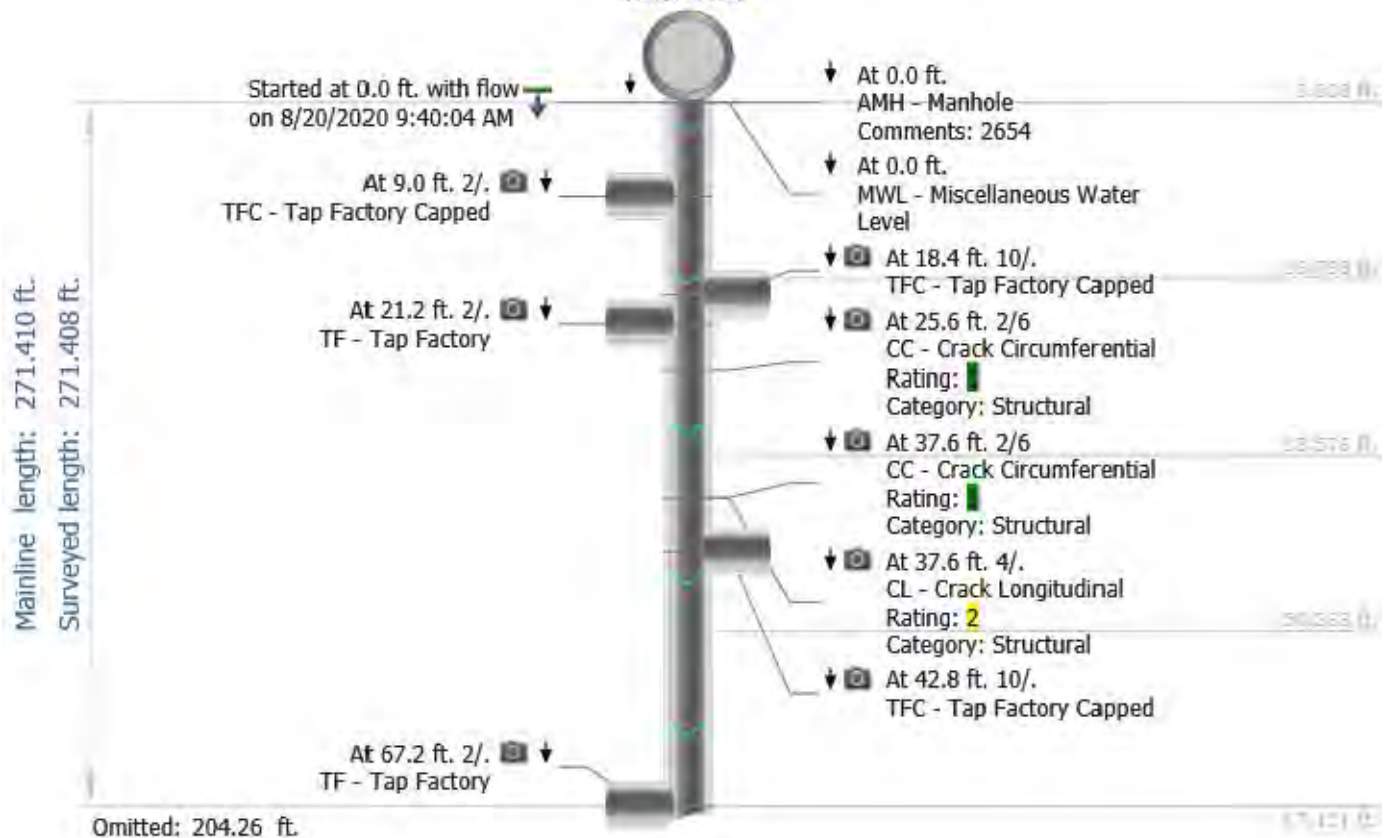
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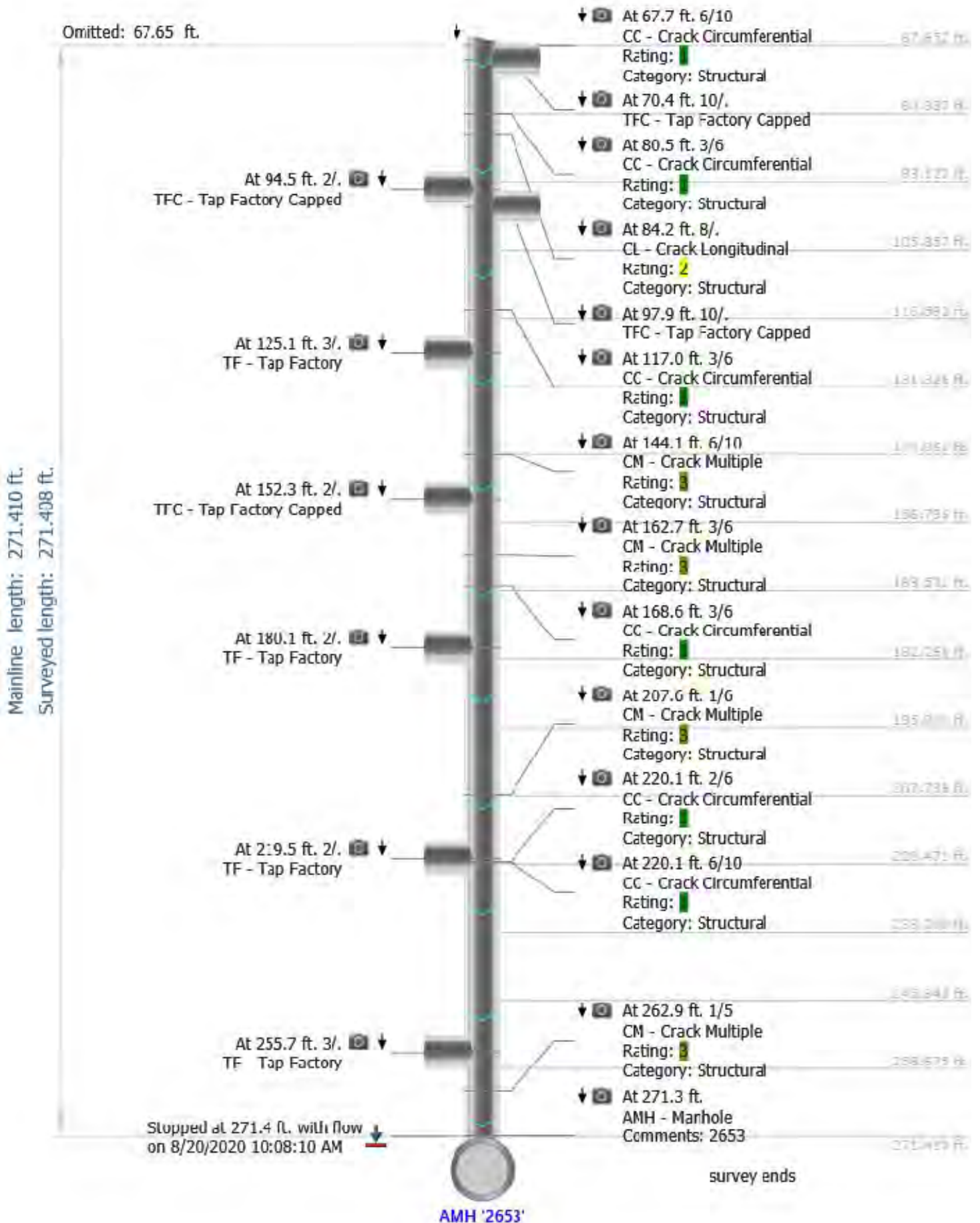
Start date/time: 20200820 09:40	Weather: Dry - No precipitation during survey	Surveyed by: K.Lang	Certificate number: UO-200-70308438	Pipe segment ref.: 2654-2653
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: TIG001-23
City: Vernon	Street: Main ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 2654	Downstream MH No: 2653	Direction: D	Total length: 271.410 ft.	Length surveyed: 271.408 ft.
Purpose: Maintenance Related	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	8	24	3422	1.7	0	0	0	0000	0.0	24	1.7	3.4	
2	0	4				0	0							
3	0	12				0	0							
4	0	0				0	0							
5	0	0				0	0							

AMH '2654'





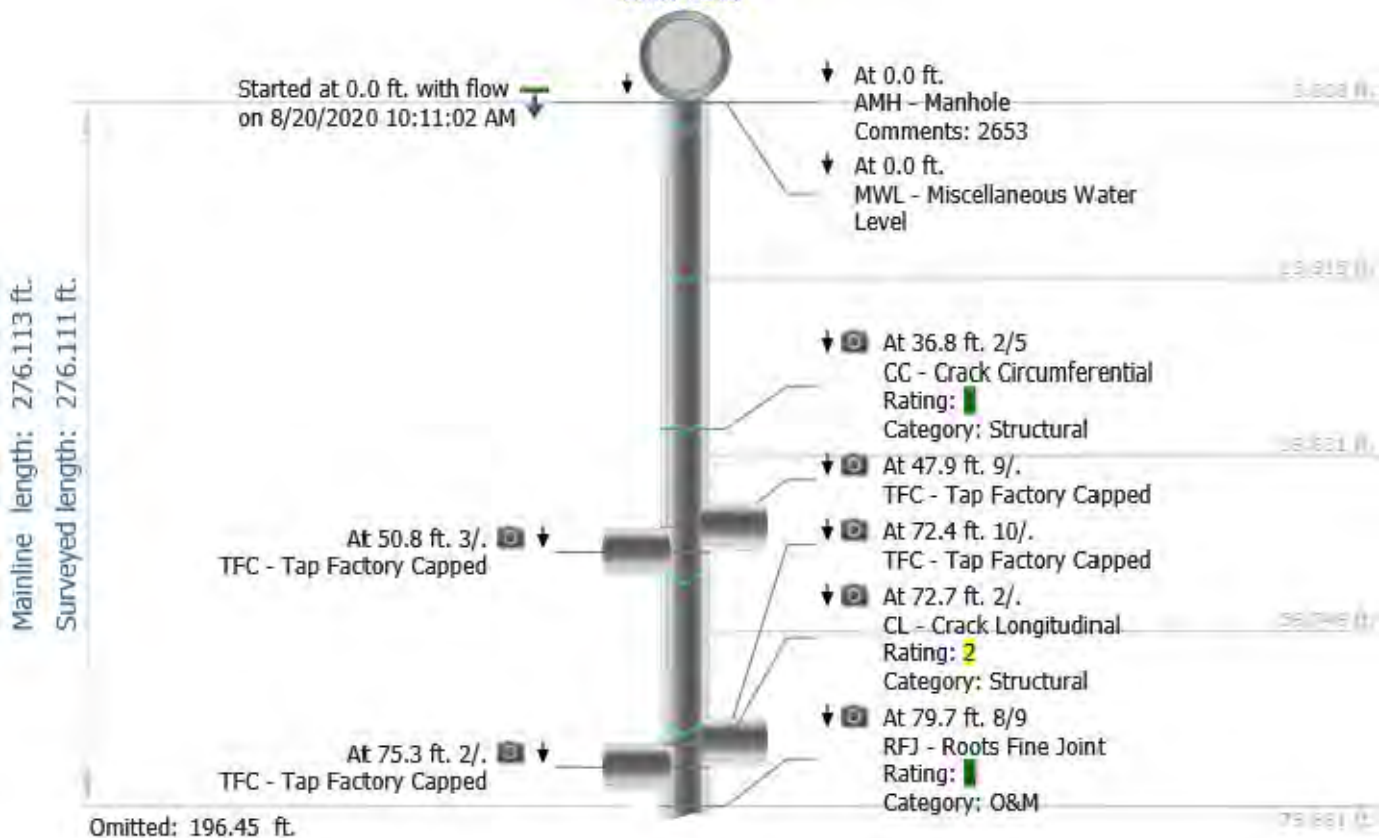
NWMCC INSPECTION REPORT

Start date/time: 20200820 10:11	Weather: Dry - No precipitation during survey	Surveyed by: K.Lang	Certificate number: UO-200-70308438	Pipe segment ref.: 2653-1756
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: TIG001-23
City: Vernon	Street: Main ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 2653	Downstream MH No: 1756	Direction: D	Total length: 276.113 ft.	Length surveyed: 276.111 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 15 in.	Material: Vitrified Clay Pipe	LateralsCounter: Additional info:

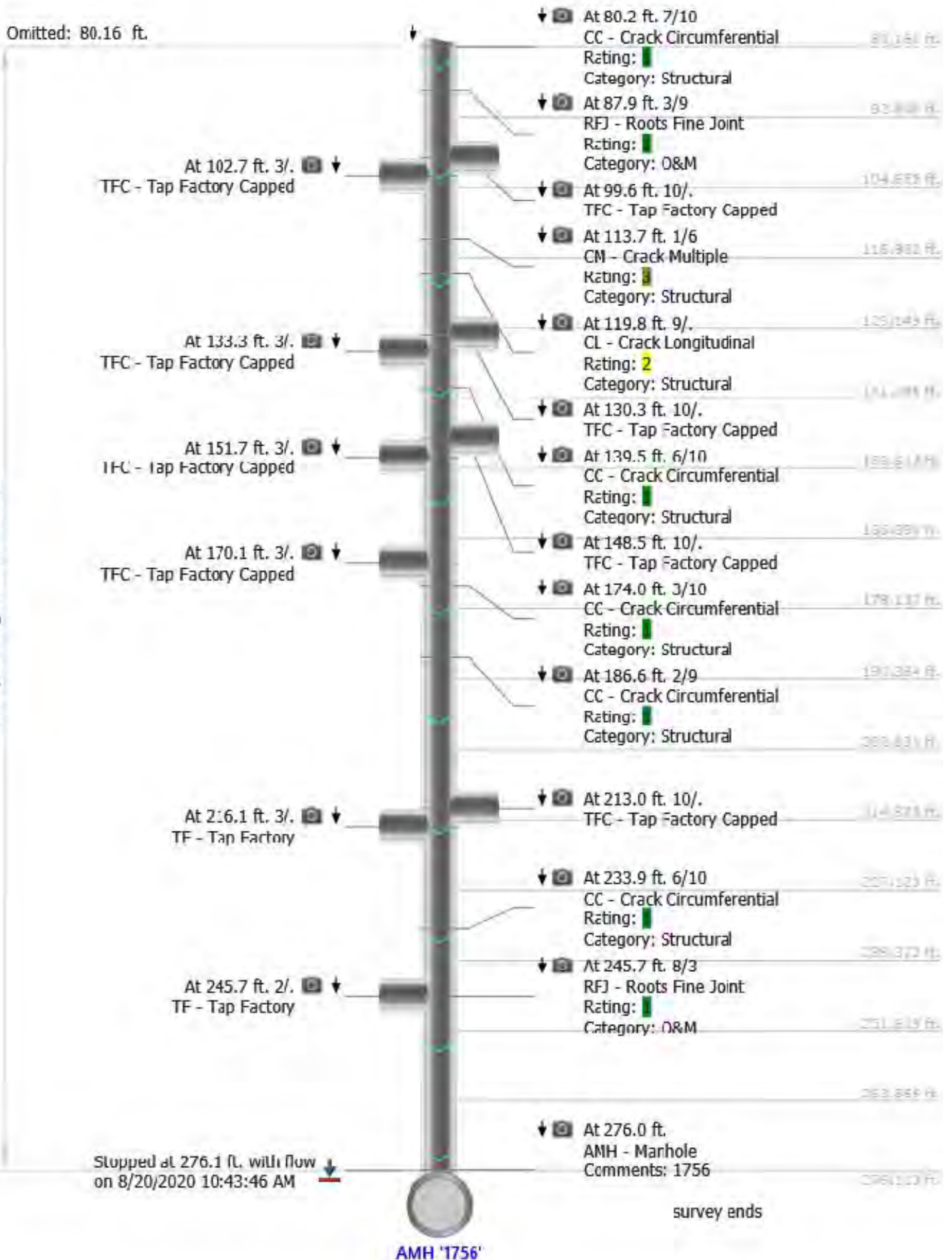
Pipe Ratings

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	6	13	3122	1.4	0	3	3	1300	1.0	16	1.3	3.1	
2	0	4				0	0							
3	0	3				0	0							
4	0	0				0	0							
5	0	0				0	0							

AMH '2653'



Mainline length: 276.113 ft.
 Surveyed length: 276.111 ft.



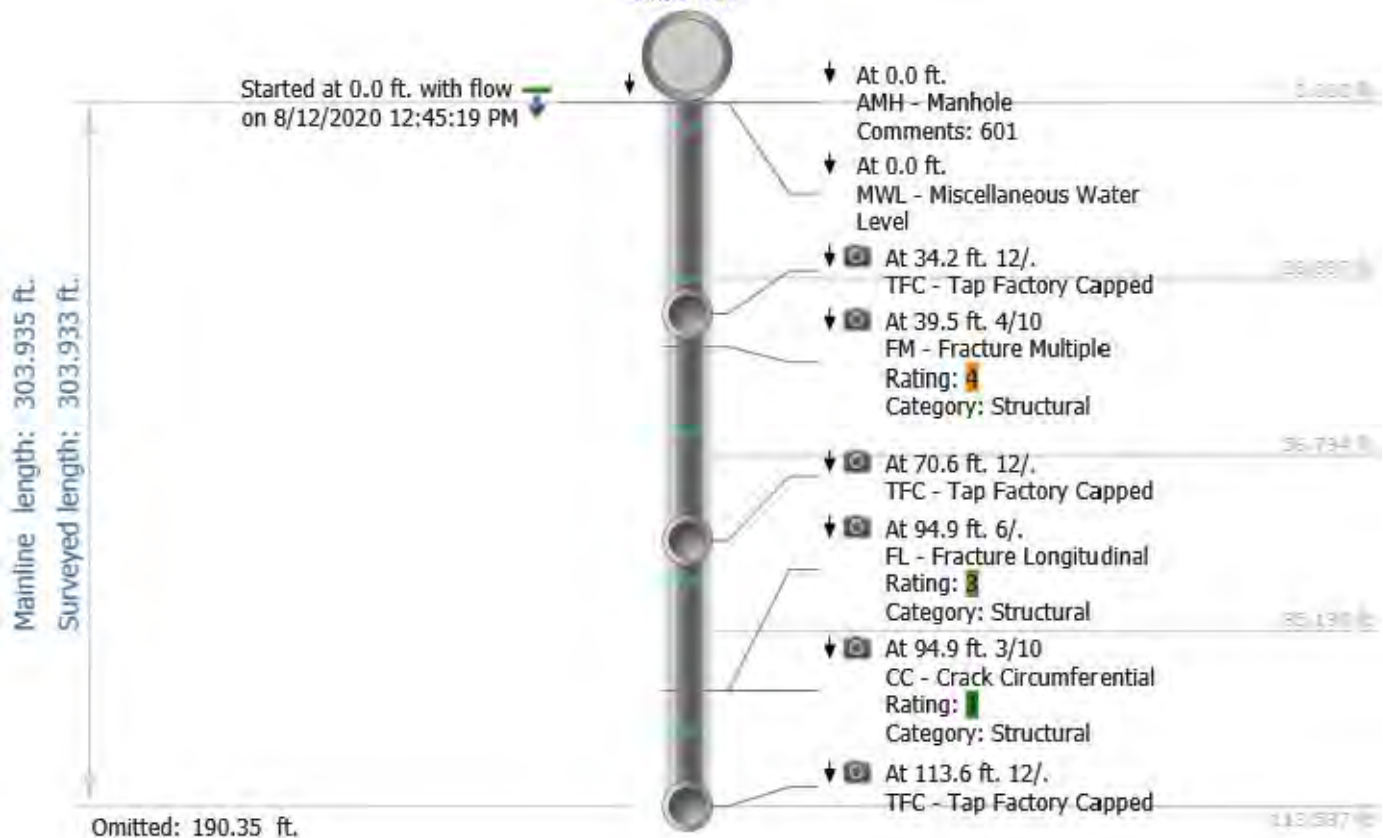
NWMCC INSPECTION REPORT

Start date/time: 20200812 12:45	Weather: Dry - No precipitation during survey	Surveyed by: alberto	Certificate number: u-0220-70308624	Pipe segment ref.: 601-1955
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: TIG001-23
City: VERNON CT	Street: ELM ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 601	Downstream MH No: 1955	Direction: D	Total length: 303.935 ft.	Length surveyed: 303.933 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Vitrified Clay Pipe	LateralsCounter: Additional info: CANT SEE MH DUE TO L SHAPED INVERT

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	3	31	4532	2.8	0	3	3	1300	1.0	34	2.4	4.5	
2	0	2				0	0							
3	0	6				0	0							
4	0	20				0	0							
5	0	0				0	0							

AMH '601'



Mainline length: 303.935 ft.
 Surveyed length: 303.933 ft.

Omitted: 124.9 ft.

Omitted: 26.02 ft.





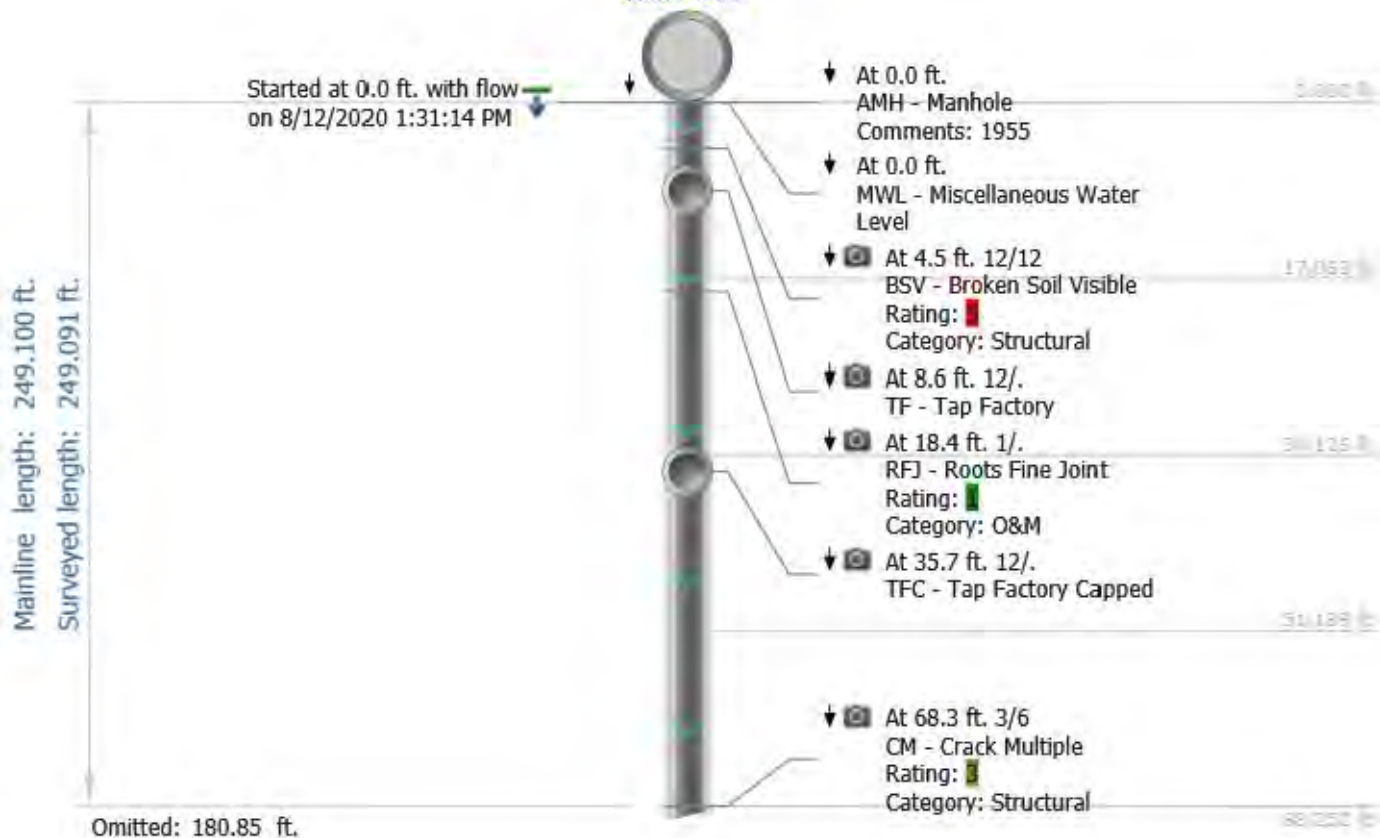
NWMCC INSPECTION REPORT

Start date/time: 20200812 13:31	Weather: Dry - No precipitation during survey	Surveyed by: alberto	Certificate number: u-0220-70308624	Pipe segment ref.: 1955-1954
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: TIG001-23
City: VERNON CT	Street: ELM ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 1955	Downstream MH No: 1954	Direction: D	Total length: 249.100 ft.	Length surveyed: 249.091 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	23	5143	3.8	0	1	1	1100	1.0	24	3.4	5.1	
2	0	0				0	0							
3	0	6				0	0							
4	0	12				0	0							
5	0	5				0	0							

AMH '1955'



Mainline length: 249.100 ft.
 Surveyed length: 249.091 ft.

Omitted: 74.26 ft.

Stopped at 249.1 ft. with flow
 on 8/12/2020 2:43:24 PM

AMH '1954'

At 74.3 ft. 1/6	74.257 ft.
FM - Fracture Multiple	
Rating: 4	
Category: Structural	
At 75.1 ft. 12/.	83.385 ft.
TFC - Tap Factory Capped	
At 97.2 ft. 10/.	96.112 ft.
TF - Tap Factory	
At 102.2 ft. 3/9	107.040 ft.
CN - Crack Multiple	
Rating: 3	
Category: Structural	
	117.368 ft.
At 129.9 ft. 4/8	128.890 ft.
FM - Fracture Multiple	
Rating: 4	
Category: Structural	
At 138.2 ft. 12/.	139.000 ft.
TF - Tap Factory	
	150.751 ft.
	161.670 ft.
	172.600 ft.
At 183.7 ft. 9/.	183.530 ft.
TF - Tap Factory	
	194.460 ft.
At 207.5 ft. 9/.	205.388 ft.
TFC - Tap Factory Capped	
At 212.2 ft. 1/9	216.217 ft.
FM - Fracture Multiple	
Rating: 4	
Category: Structural	
	227.246 ft.
At 230.1 ft. 12/.	238.170 ft.
TF - Tap Factory	
At 249.1 ft.	249.100 ft.
MSA - Miscellaneous Survey	
Abandoned	
Category: O&M	
Comments: CAMERA PIN BROKE WILL NOT CRAWL ANY FURTHER	

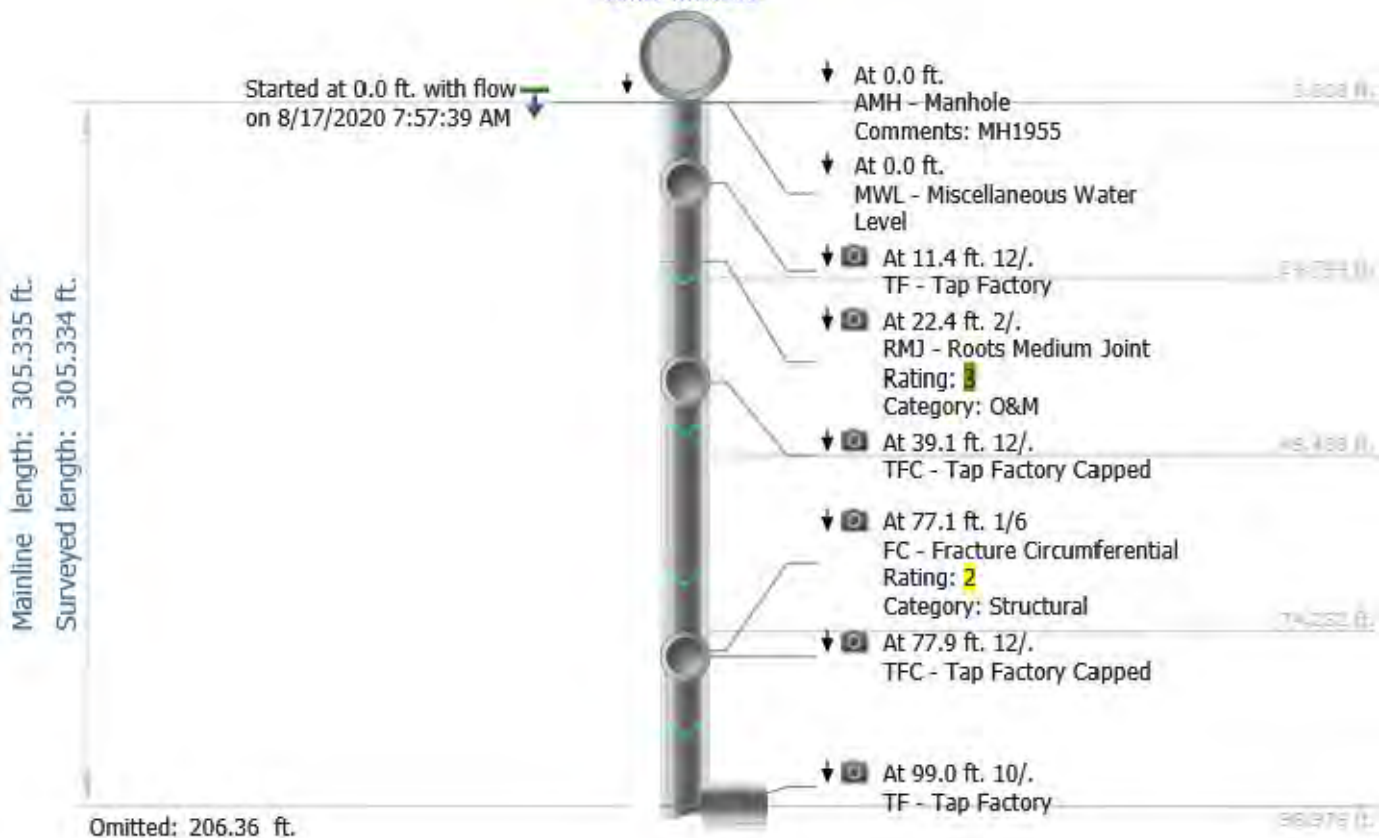
NWMCC INSPECTION REPORT

Start date/time: 20200817 07:57	Weather: Dry - No precipitation during survey	Surveyed by: K.Lang	Certificate number: UO-200-70308438	Pipe segment ref.: MH1955-MH1954
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: TIG001-23
City: VERNON CT	Street: ELM STREET	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: MH1955	Downstream MH No: MH1954	Direction: D	Total length: 305.335 ft.	Length surveyed: 305.334 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Vitrified Clay Pipe	LateralsCounter: Additional info:

Pipe Ratings

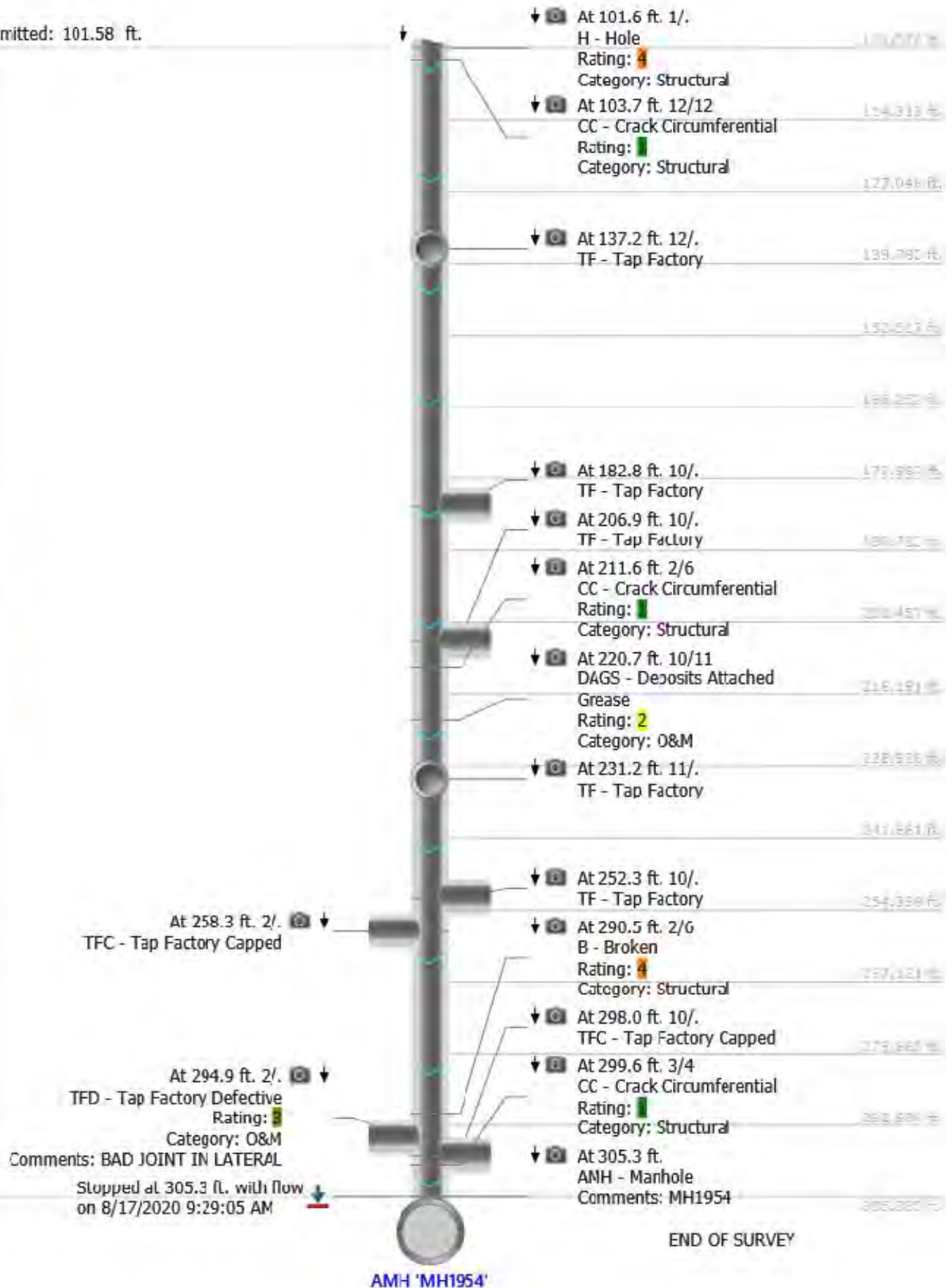
Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	3	13	4221	2.2	0	0	8	3221	2.7	21	2.3	4.2	
2	0	2				0	2							
3	0	0				0	6							
4	0	8				0	0							
5	0	0				0	0							

AMH 'MH1955'



Mainline length: 305.335 ft.
 Surveyed length: 305.334 ft.

Omitted: 101.58 ft.



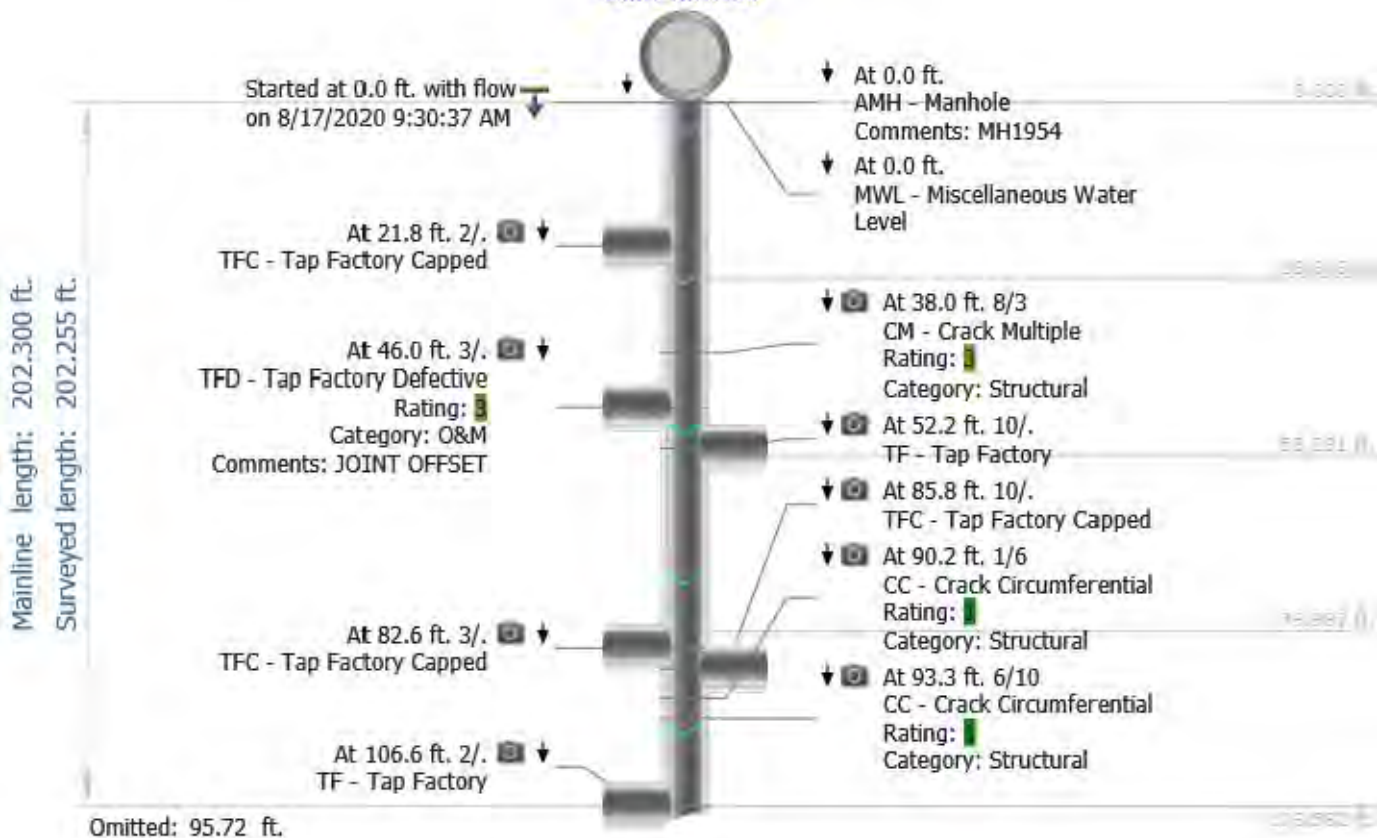
NWMCC INSPECTION REPORT

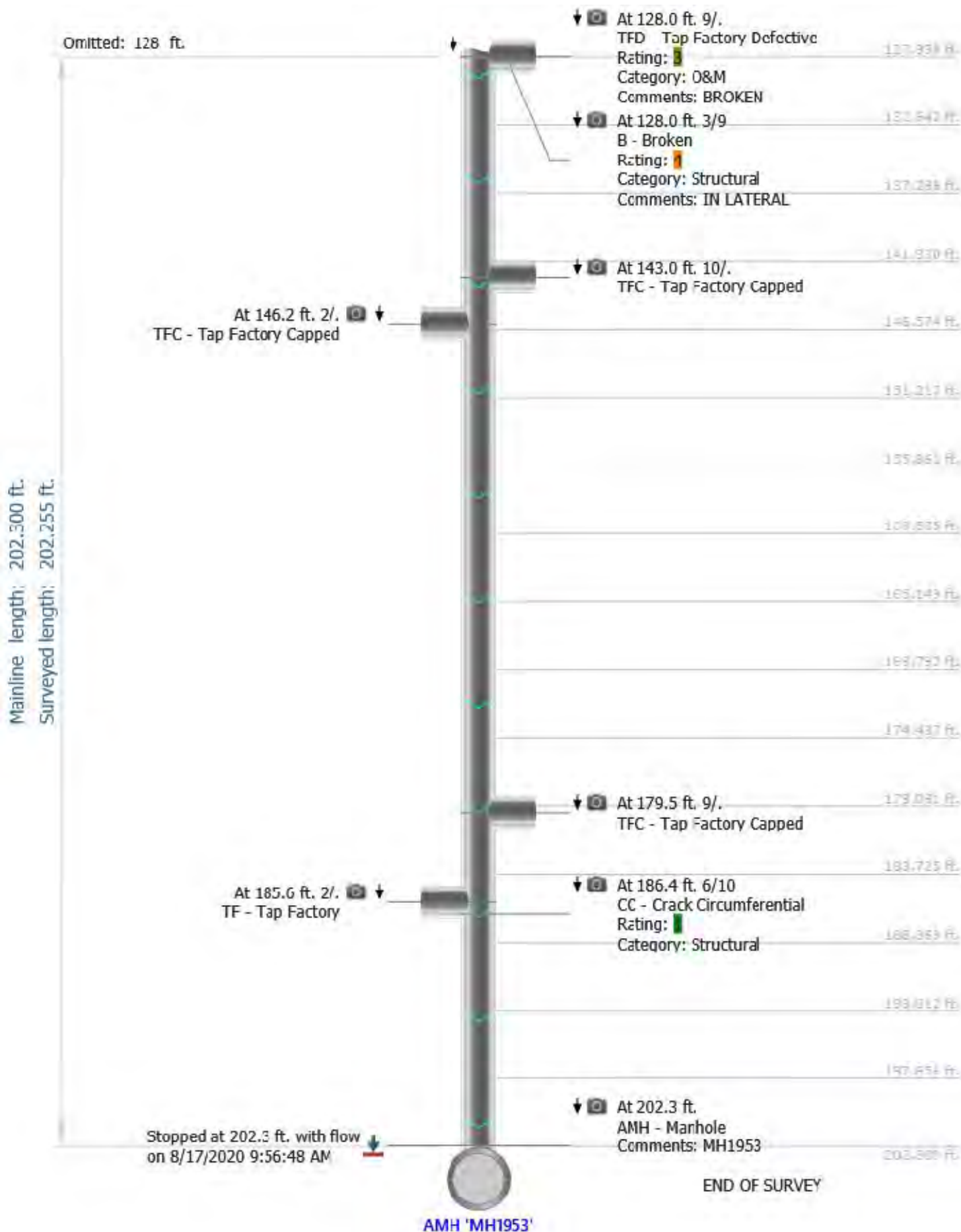
Start date/time: 20200817 09:30	Weather: Dry - No precipitation during survey	Surveyed by: K.Lang	Certificate number: UO-200-70308438	Pipe segment ref.: MH1954-MH1953
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: TIG001-23
City: VERNON CT	Street: ELM ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: MH1954	Downstream MH No: MH1953	Direction: D	Total length: 202.300 ft.	Length surveyed: 202.255 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	3	10	4131	2.0	0	0	6	3200	3.0	16	2.3	4.1	
2	0	0				0	0							
3	0	3				0	6							
4	0	4				0	0							
5	0	0				0	0							

AMH 'MH1954'







The Environmental
Protection Specialists

National Water Main Cleaning
Co.
25 Marshall Street
Canton, MA 02021
Office: 800-422-0815
Fax: 781-828-2473

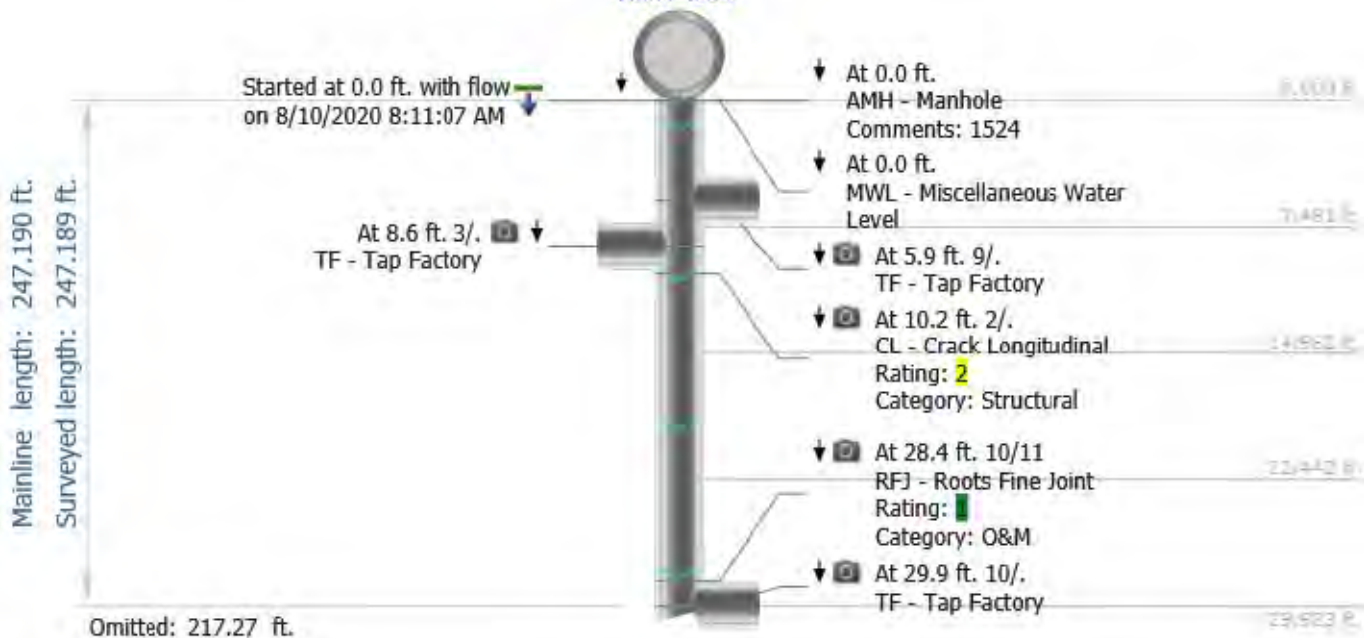
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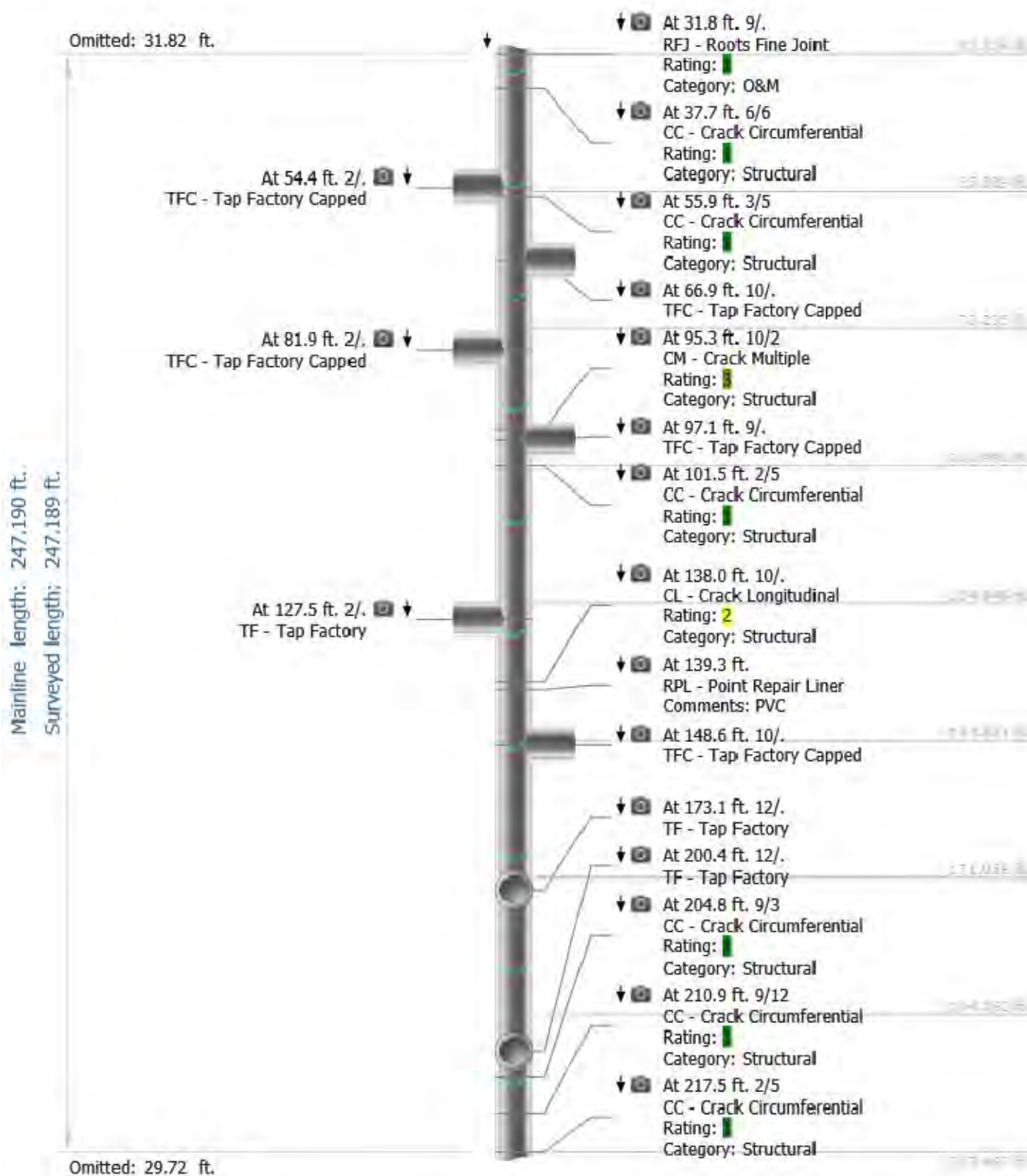
Start date/time: 20200810 08:11	Weather: Dry - No precipitation during survey	Surveyed by: J.HASHEM	Certificate number: 000-0000-0000	Pipe segment ref.: 1524/610
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: TIG001-23
City: VERNON CT	Street: LAWRENCE ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 1524	Downstream MH No: 610	Direction: D	Total length: 247.190 ft.	Length surveyed: 247.189 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Vitrified Clay Pipe	LateralsCounter: Additional info:

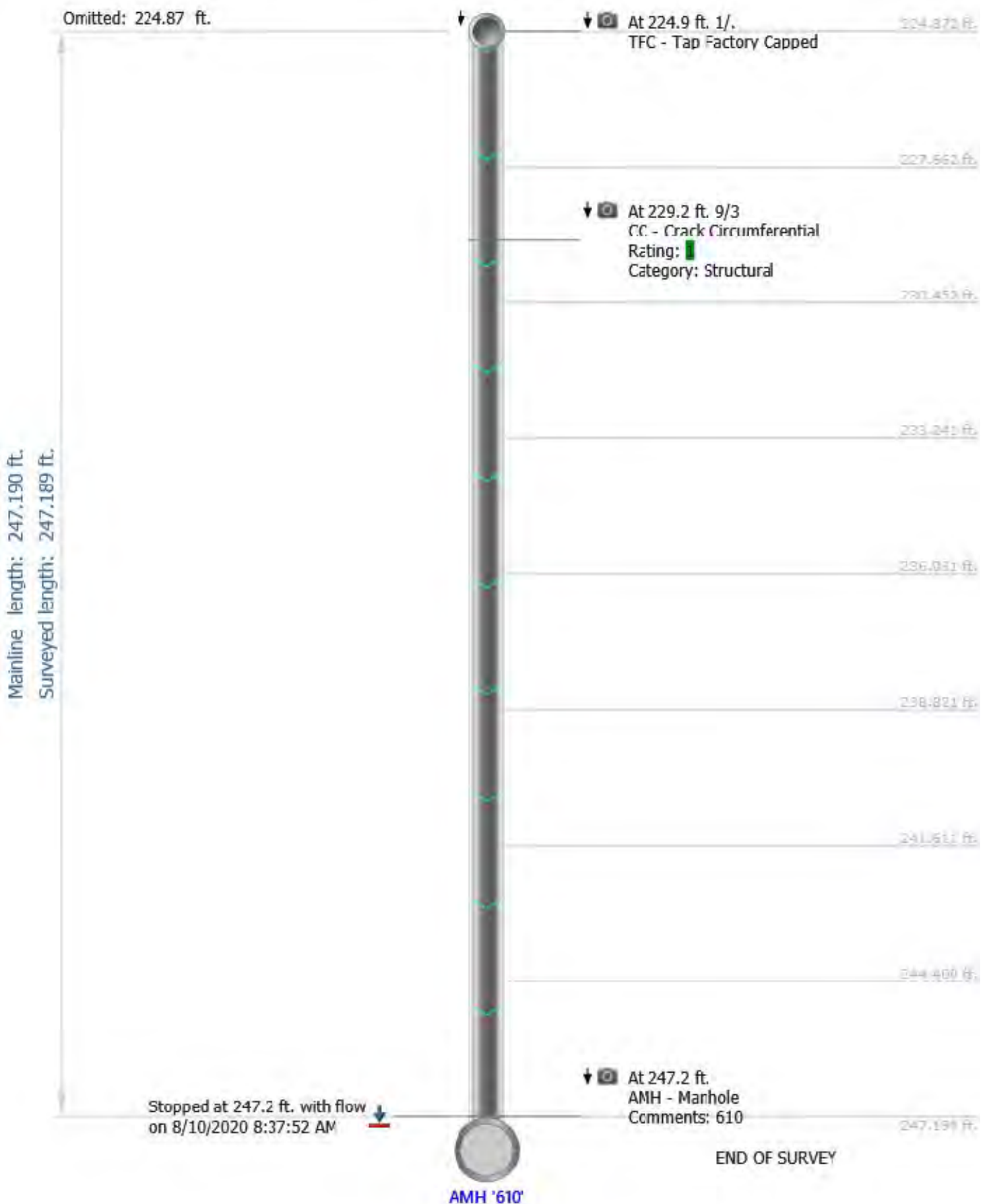
Pipe Ratings

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	7	14	3122	1.4	0	2	2	1200	1.0	16	1.3	3.1	
2	0	4				0	0							
3	0	3				0	0							
4	0	0				0	0							
5	0	0				0	0							

AMH '1524'







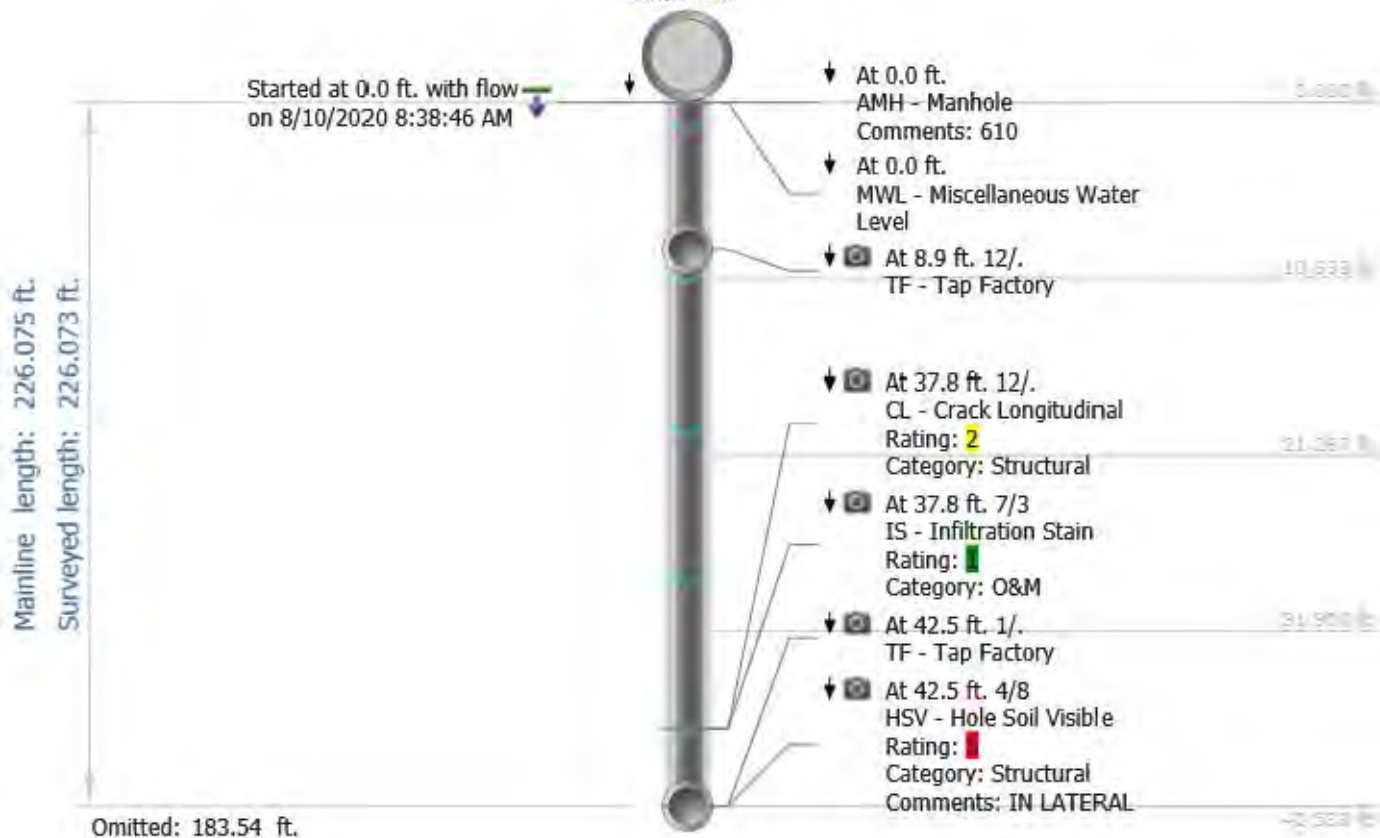
NWMCC INSPECTION REPORT

Start date/time: 20200810 08:38	Weather: Dry - No precipitation during survey	Surveyed by: J.HASHEM	Certificate number: 000-0000-0000	Pipe segment ref.: 610/611
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: TIG001-23
City: VERNON CT	Street: LAWRENCE ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 610	Downstream MH No: 611	Direction: D	Total length: 226.075 ft.	Length surveyed: 226.073 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	5	19	5131	1.9	0	9	13	2219	1.2	32	1.5	5.1	
2	0	6				0	4							
3	0	3				0	0							
4	0	0				0	0							
5	0	5				0	0							

AMH '610'



Mainline length: 226.075 ft.
 Surveyed length: 226.073 ft.

Omitted: 46.64 ft.

Omitted: 65.25 ft.



Mainline length: 226.075 ft.
 Surveyed length: 226.073 ft.

Omitted: 171.53 ft.



Stopped at 226.1 ft. with flow
 on 8/10/2020 9:32:58 AM

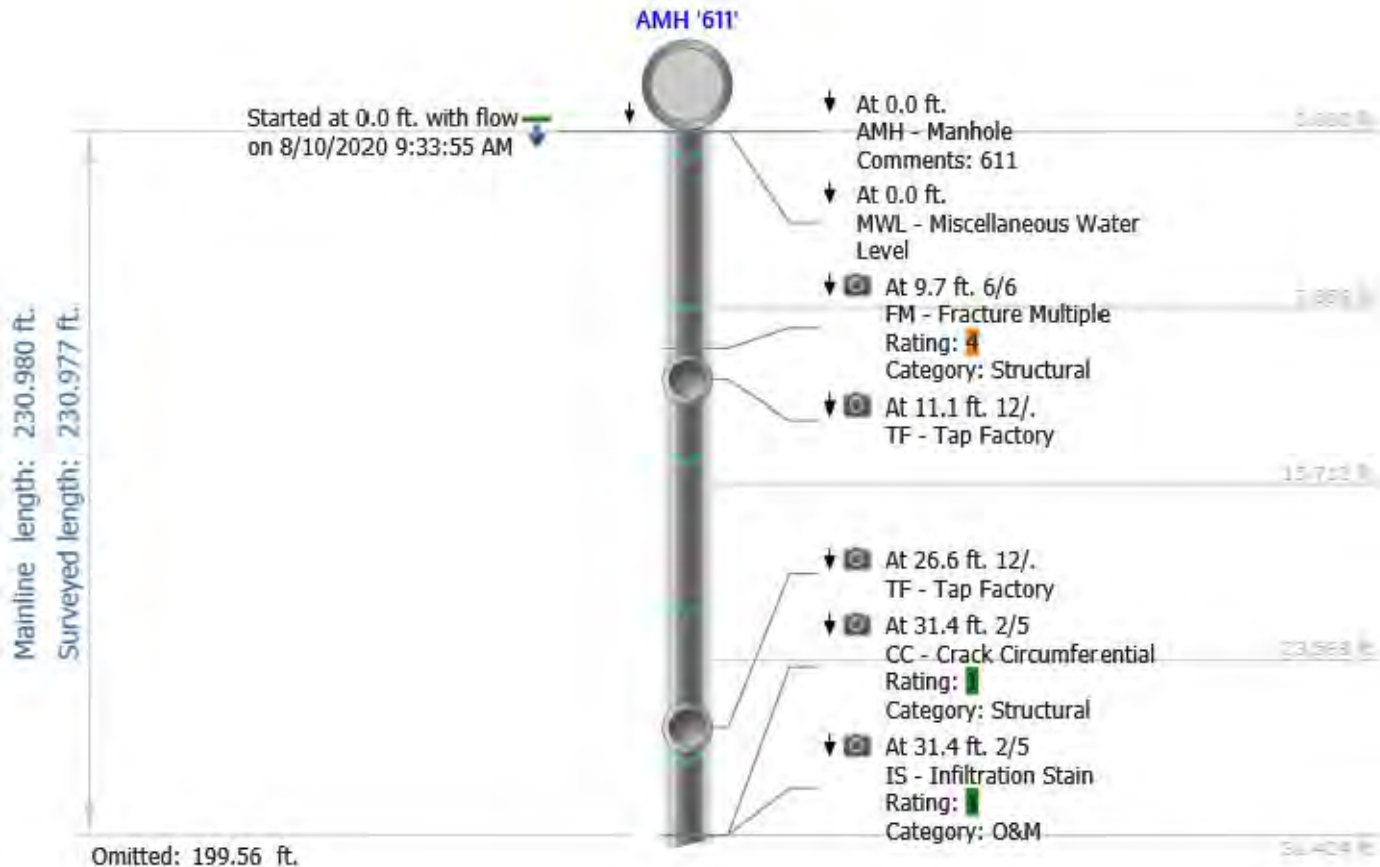
AMH '611'

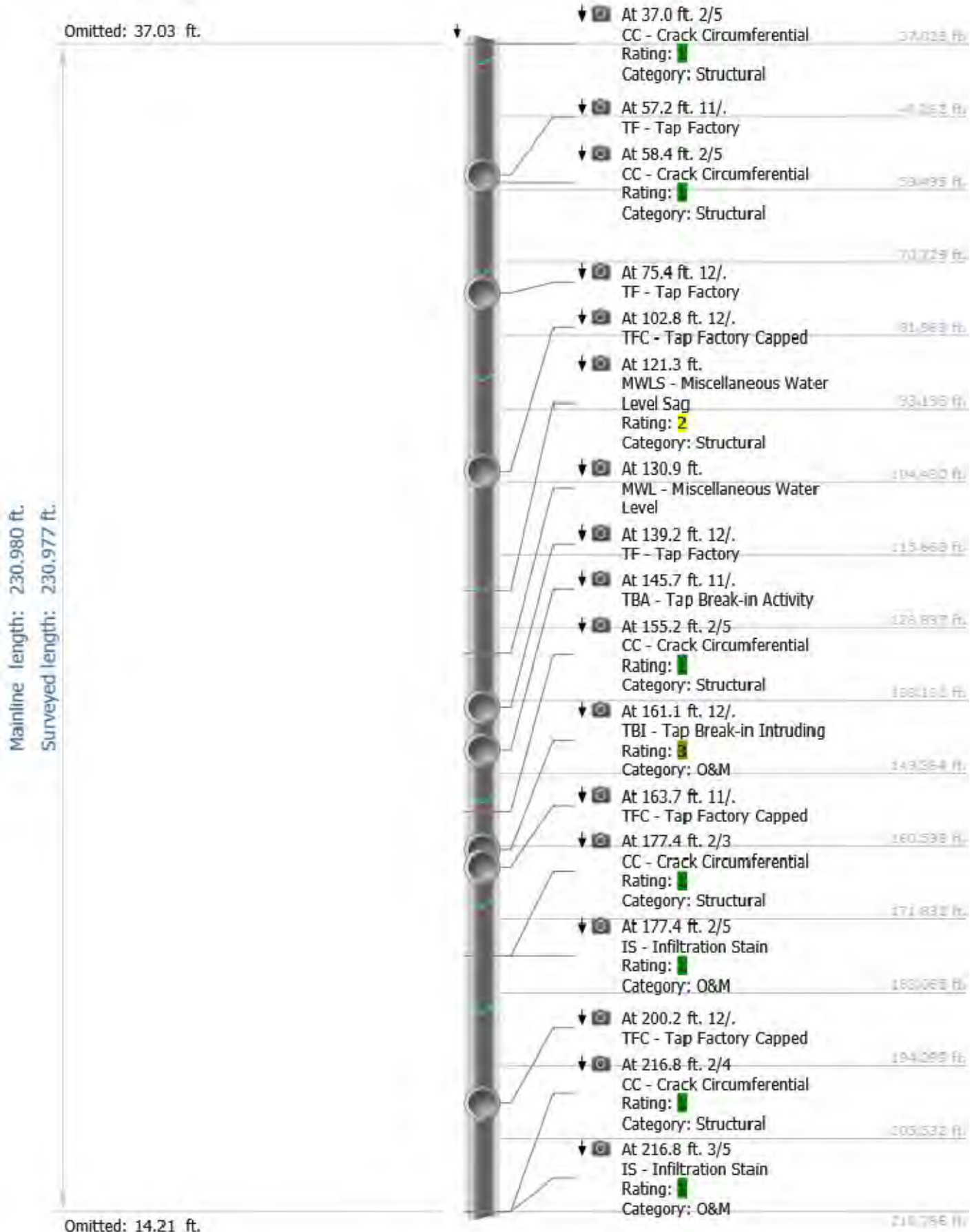
NWMCC INSPECTION REPORT

Start date/time: 20200810 09:33	Weather: Dry - No precipitation during survey	Surveyed by: J.HASHEM	Certificate number: 000-0000-0000	Pipe segment ref.: 611/612	
Owner:	Customer:	Pre-cleaning: Heavy Cleaning	Date cleaned:	Project name: TIG001-23	
City: VERNON CT	Street: LAWRENCE ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area:	Flow control:
Upstream MH No: 611	Downstream MH No: 612	Direction: D	Total length: 230.980 ft.	Length surveyed: 230.977 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	7	15	4122	1.5	0	4	7	3114	1.4	22	1.5	4.1	
2	0	4				0	0							
3	0	0				0	3							
4	0	4				0	0							
5	0	0				0	0							





Mainline length: 230.930 ft.
Surveyed length: 230.977 ft.

Omitted: 219.77 ft.

Stopped at 231.0 ft. with flow
on 8/10/2020 9:50:34 AM

AMH '612'

At 219.8 ft. 8/12	219.768 ft.
CC - Crack Circumferential	
Rating: ■	
Category: Structural	
	220.469 ft.
	221.170 ft.
At 222.9 ft. 3/.	221.870 ft.
CL - Crack Longitudinal	
Rating: 2	
Category: Structural	
At 222.9 ft. 3/5	222.571 ft.
IS - Infiltration Stain	
Rating: ■	
Category: O&M	223.272 ft.
	223.973 ft.
	224.673 ft.
	225.374 ft.
	226.075 ft.
	226.776 ft.
	227.476 ft.
	228.177 ft.
	228.878 ft.
	229.579 ft.
	230.279 ft.
At 231.0 ft.	230.980 ft.
ANH - Manhole	
Comments: 612	

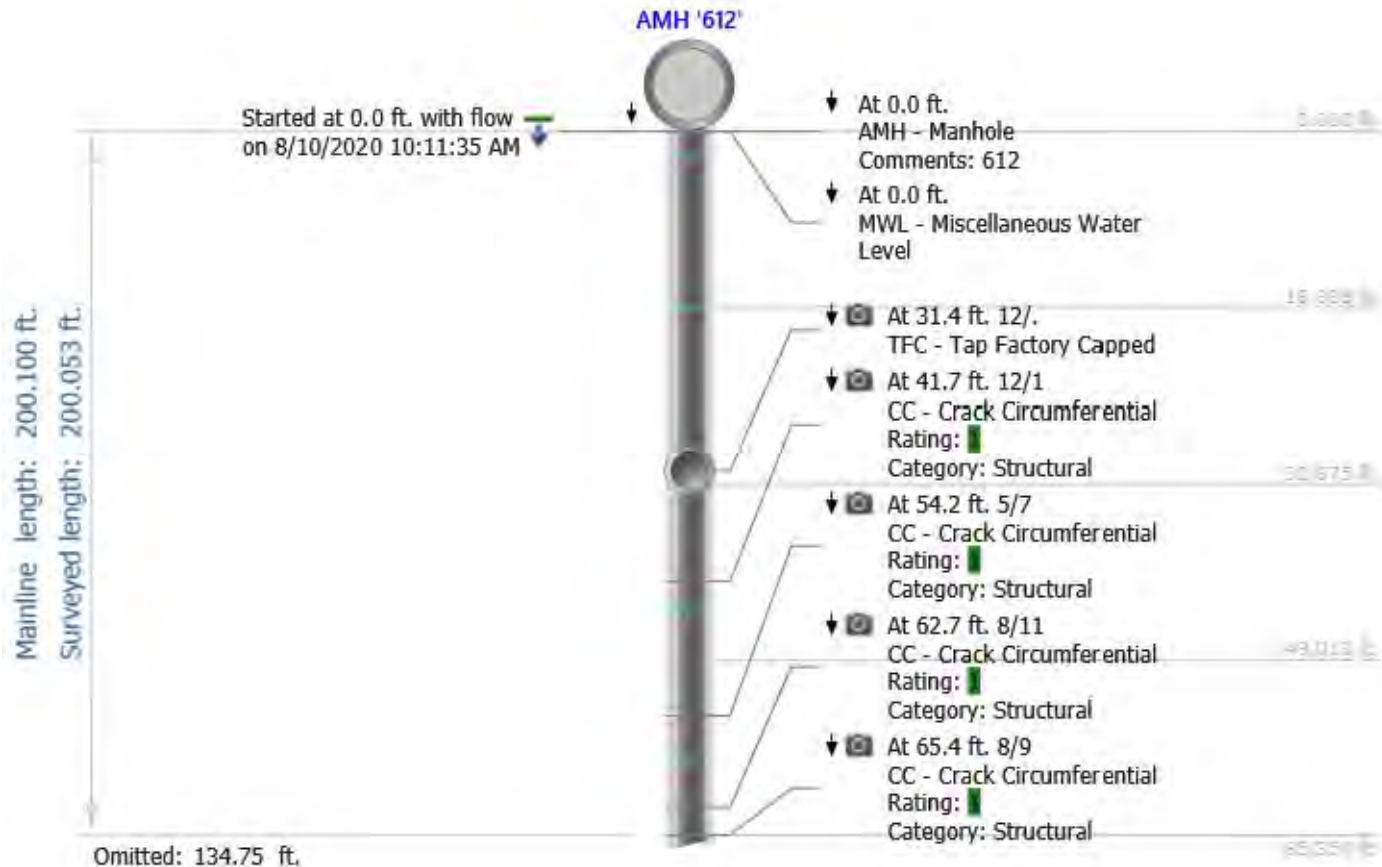
END OF SURVEY

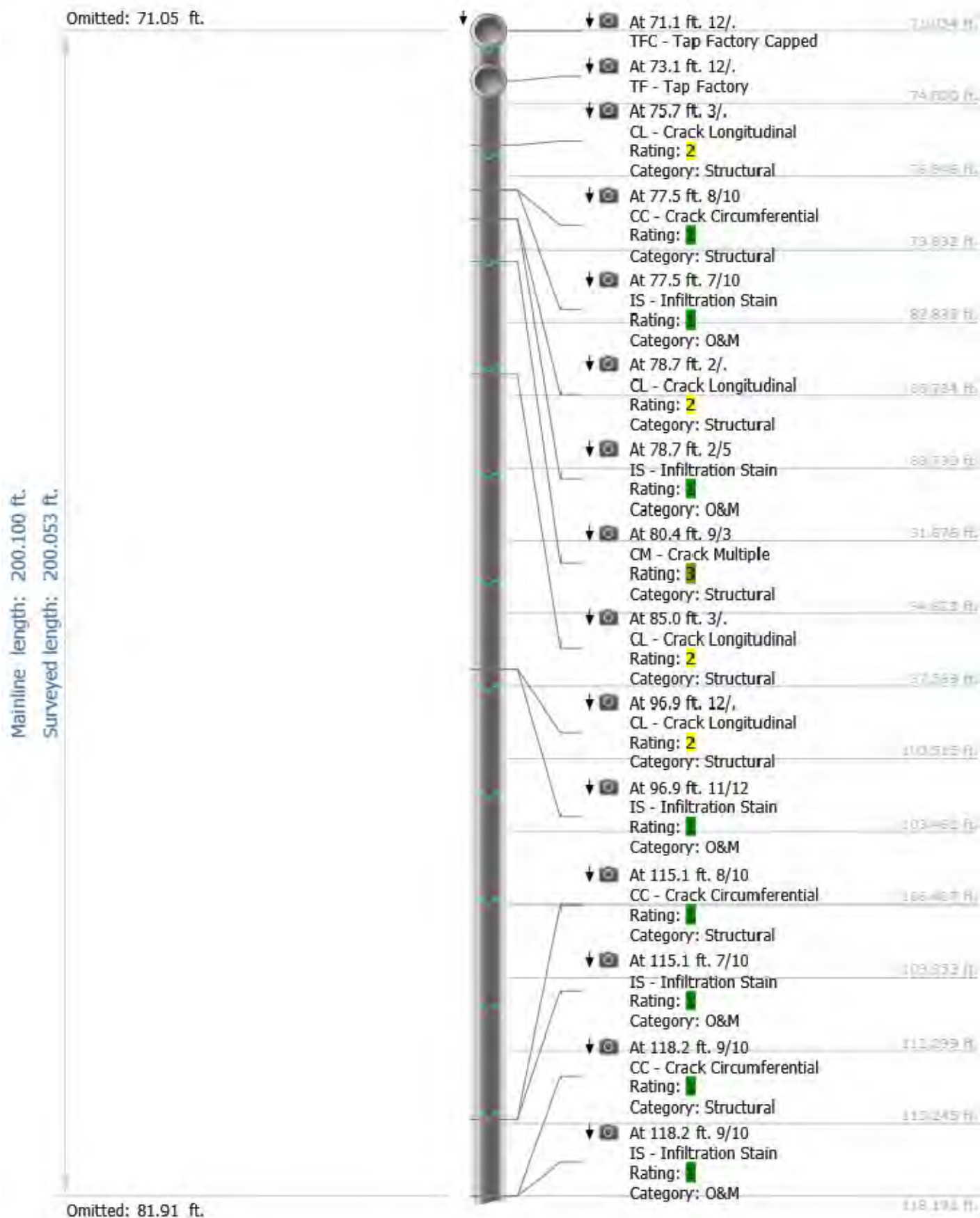
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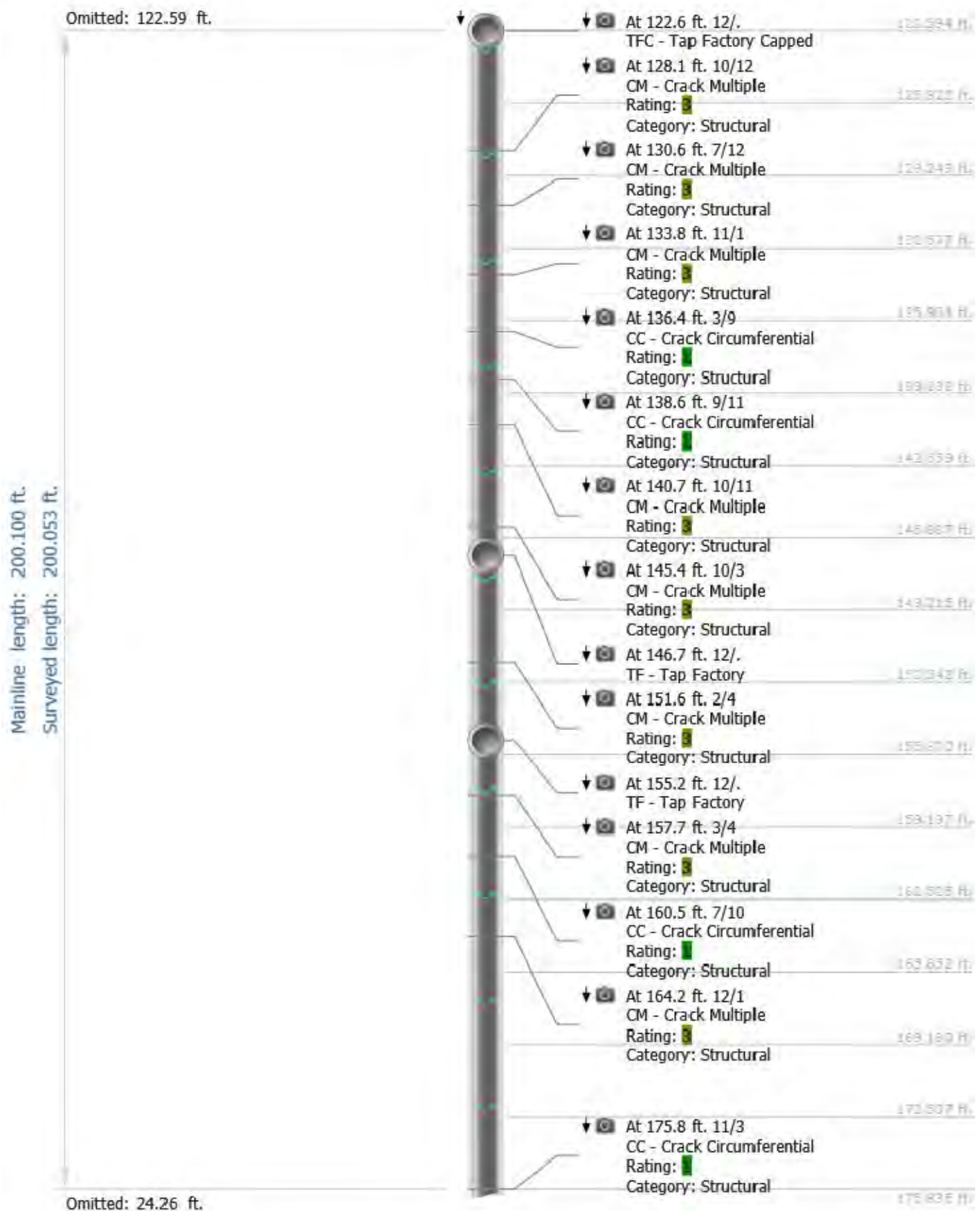
Start date/time: 20200810 10:11		Weather: Dry - No precipitation during survey		Surveyed by: J.HASHEM		Certificate number: 000-0000-0000		Pipe segment ref.: 612/1523	
Owner:		Customer:		Pre-cleaning: Heavy Cleaning		Date cleaned:		Project name: TIG001-23	
City: VERNON CT		Street: WEBSTER ST		Location code:		Pipe use: Sanitary Sewage Pipe		Drainage area: Flow control:	
Upstream MH No: 612		Downstream MH No: 1523		Direction: D		Total length: 200.100 ft.		Length surveyed: 200.053 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	12	57	3A26	2.0	0	5	7	2115	1.2	64	1.8	4.0	
2	0	12				0	2							
3	0	33				0	0							
4	0	0				0	0							
5	0	0				0	0							

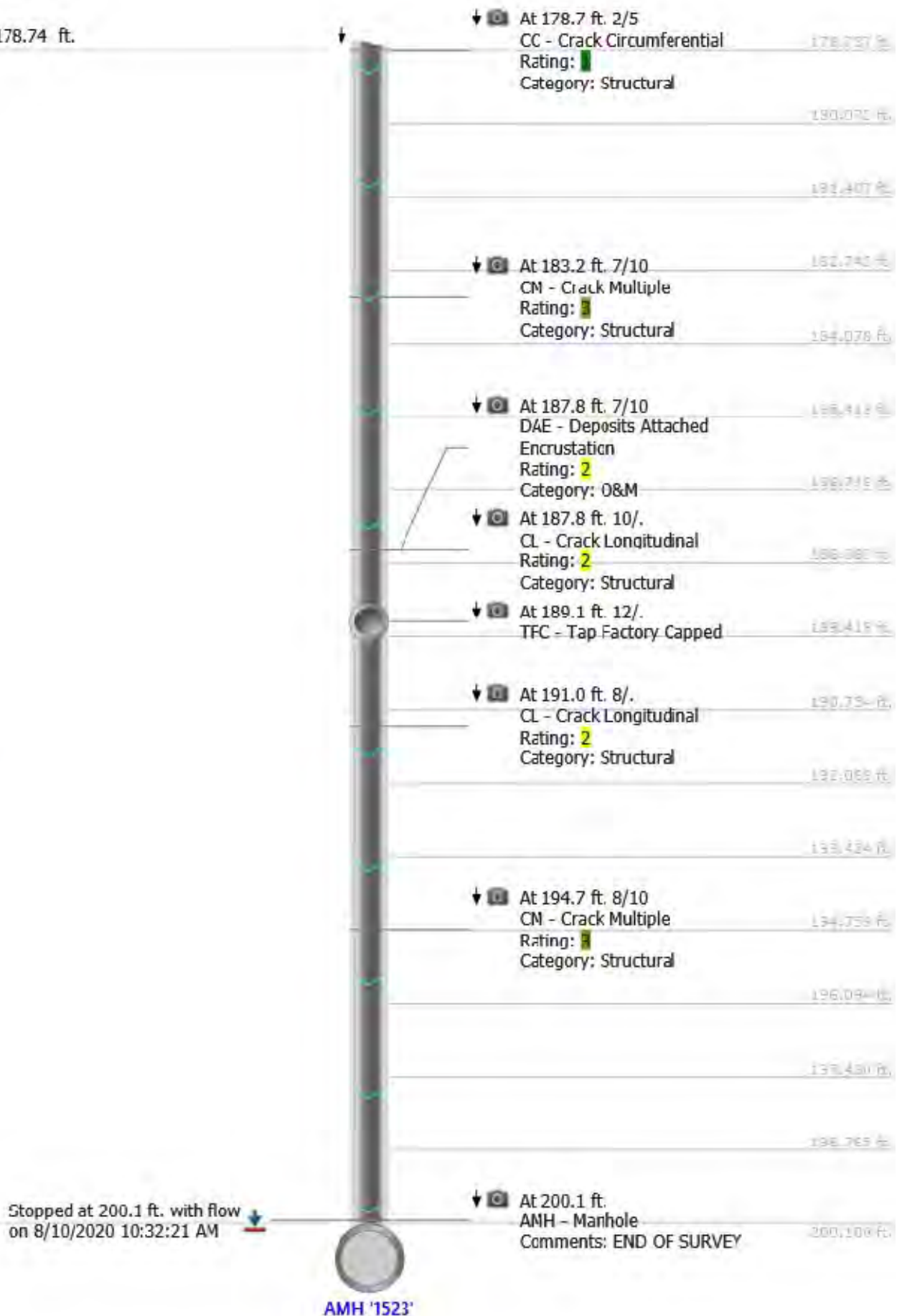






Mainline length: 200.100 ft.
 Surveyed length: 200.053 ft.

Omitted: 178.74 ft.



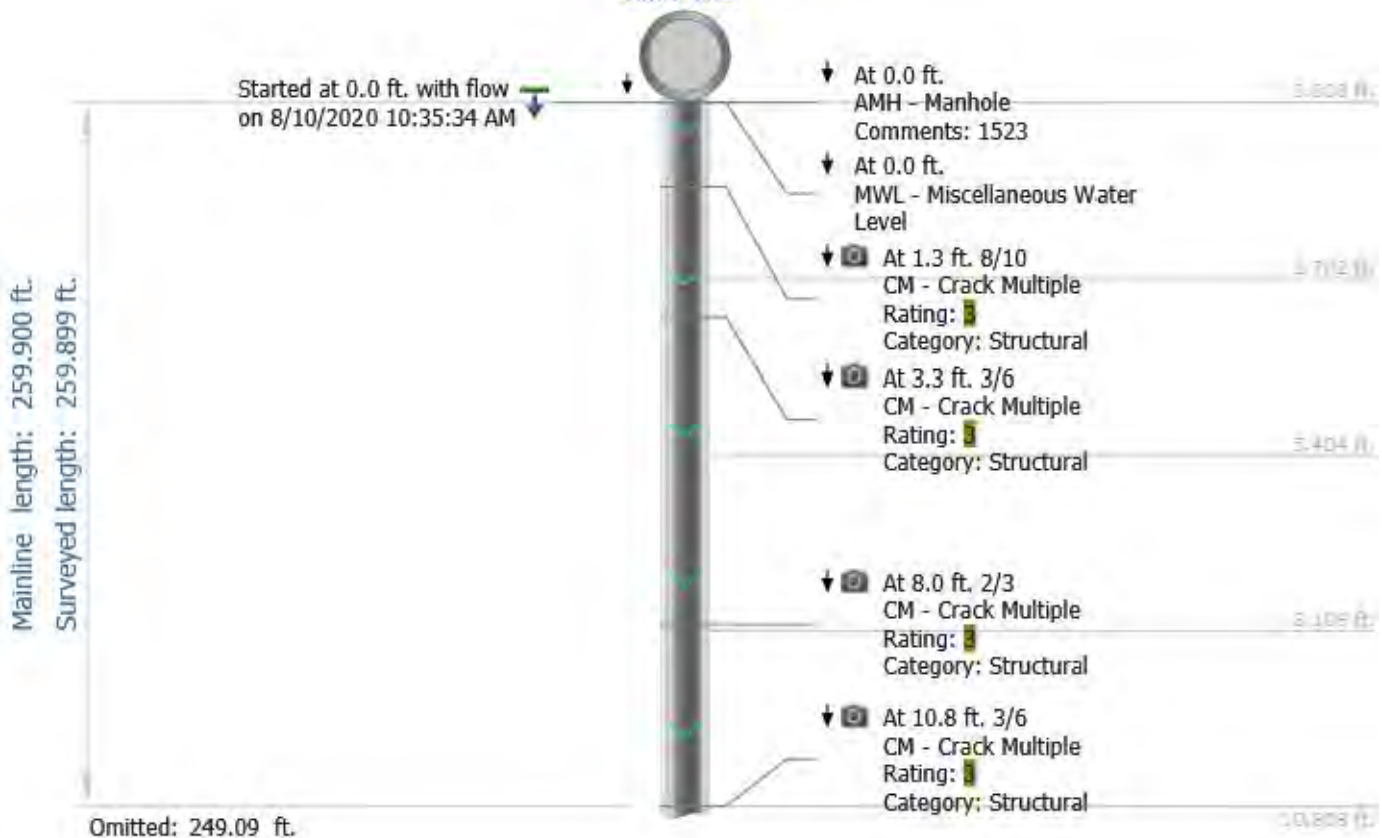
NWMCC INSPECTION REPORT

Start date/time: 20200810 10:35	Weather: Dry - No precipitation during survey	Surveyed by: J.HASHEM	Certificate number: 000-0000-0000	Pipe segment ref.: 1523/1521	
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: TIG001-23	
City: VERNON CT	Street: WEBSTER ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area:	Flow control:
Upstream MH No: 1523	Downstream MH No: 1521	Direction: D	Total length: 259.900 ft.	Length surveyed: 259.899 ft.	
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Vitrified Clay Pipe	Laterals/Counter:	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	20	135	3F25	2.2	0	3	5	2113	1.2	140	2.2	4.0	
2	0	10				0	2							
3	0	105				0	0							
4	0	0				0	0							
5	0	0				0	0							

AMH '1523'

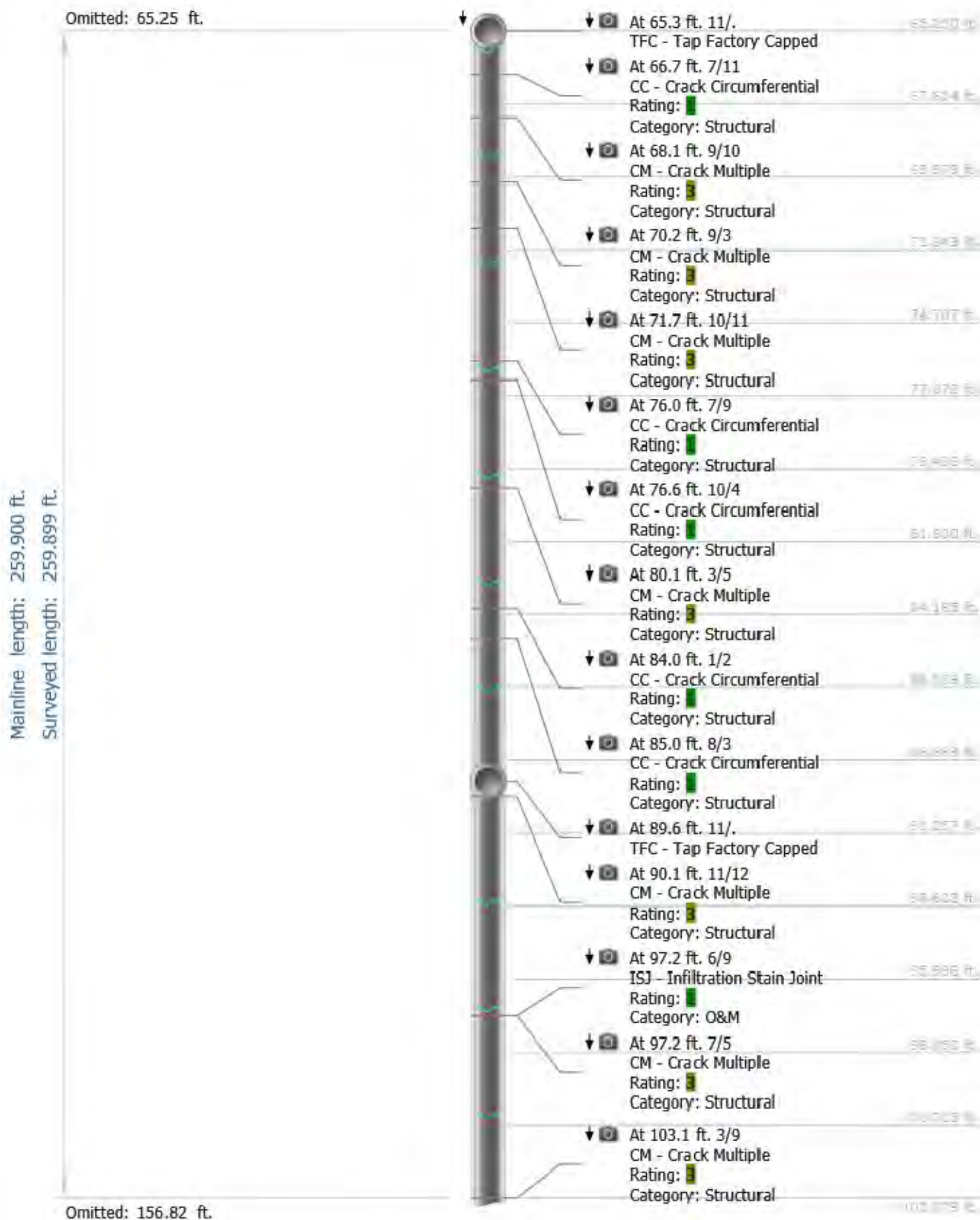


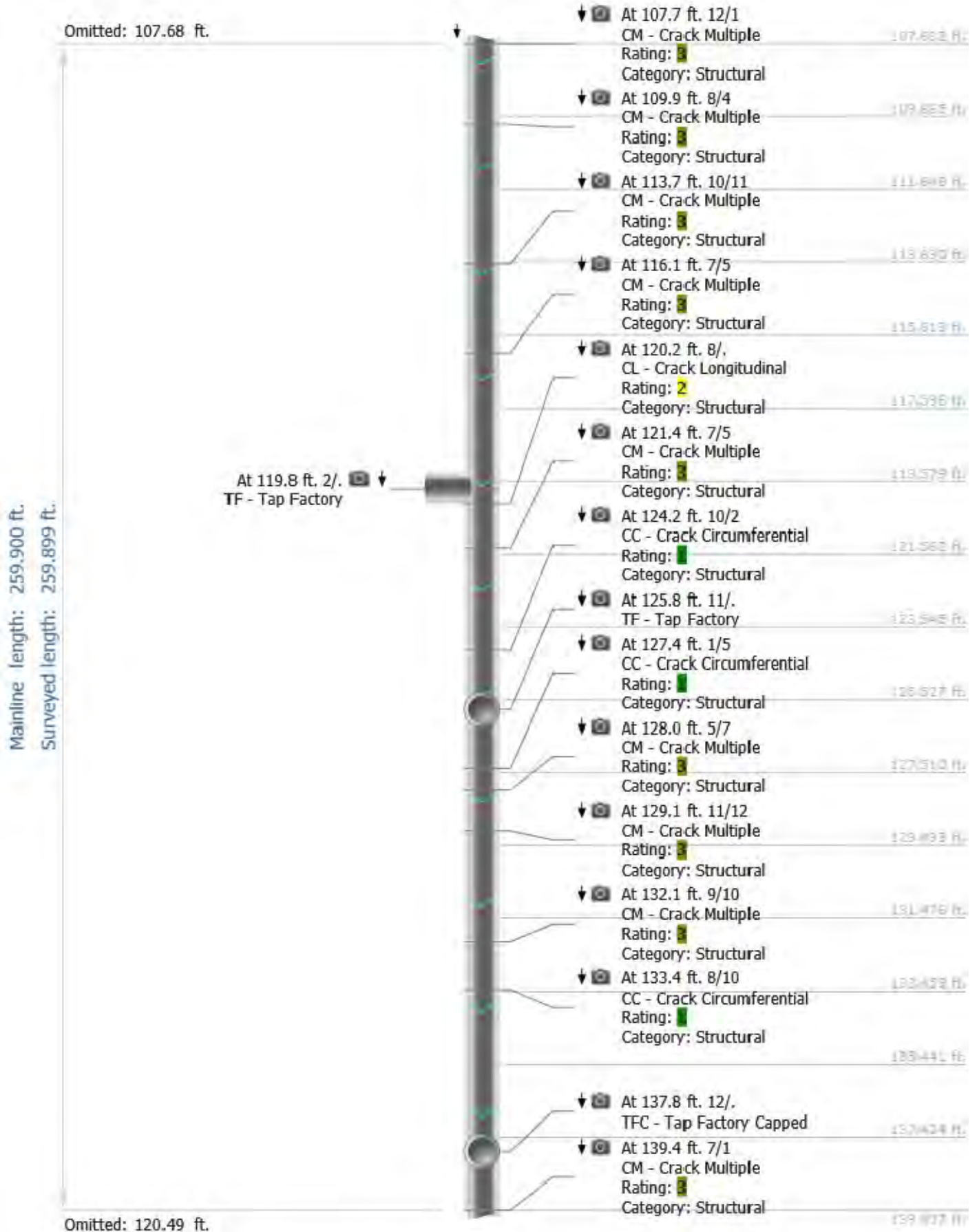
Mainline length: 259.900 ft.
 Surveyed length: 259.899 ft.

Omitted: 14.71 ft.

Omitted: 202.06 ft.



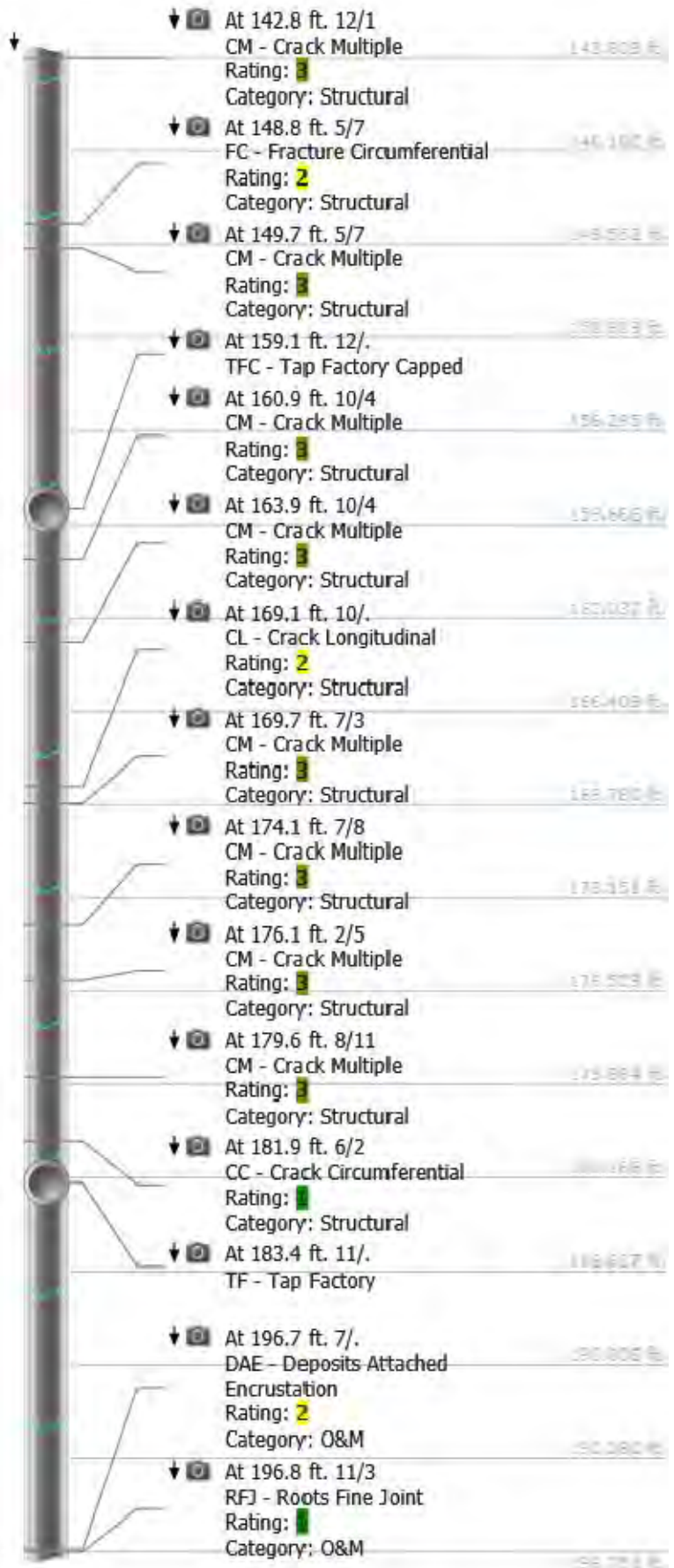




Omitted: 142.81 ft.

Mainline length: 259.900 ft.
Surveyed length: 259.899 ft.

Omitted: 63.15 ft.



Mainline length: 259.900 ft.
 Surveyed length: 259.899 ft.

Omitted: 200.15 ft.

Stopped at 259.9 ft. with flow
 on 8/10/2020 11:34:17 AM

AMH '1521'

END OF SURVEY

At 200.2 ft. 8/12	200.153 ft.
CC - Crack Circumferential	
Rating: ■	
Category: Structural	
At 203.2 ft. 3/.	203.382 ft.
RFJ - Roots Fine Joint	
Rating: ■	
Category: O&M	
At 207.6 ft. 12/.	207.621 ft.
TF - Tap Factory	
At 210.9 ft. 2/4	211.359 ft.
CC - Crack Circumferential	
Rating: ■	
Category: Structural	
At 215.3 ft. 10/8	215.459 ft.
CC - Crack Circumferential	
Rating: ■	
Category: Structural	218.824 ft.
At 227.2 ft. 7/11	222.557 ft.
CC - Crack Circumferential	
Rating: ■	
Category: Structural	
At 230.2 ft. 7/8	226.232 ft.
CM - Crack Multiple	
Rating: ■	
Category: Structural	231.027 ft.
At 232.4 ft. 3/5	233.751 ft.
CM - Crack Multiple	
Rating: ■	
Category: Structural	
At 239.5 ft. 6/6	237.133 ft.
RPP - Point Repair Patch	
Category: Structural	
Comments: PVC	241.213 ft.
At 248.3 ft. 8/.	244.950 ft.
CL - Crack Longitudinal	
Rating: ■	
Category: Structural	246.387 ft.
At 259.9 ft.	252.432 ft.
AMH - Manhole	
Comments: 1521	255.255 ft.
	259.900 ft.

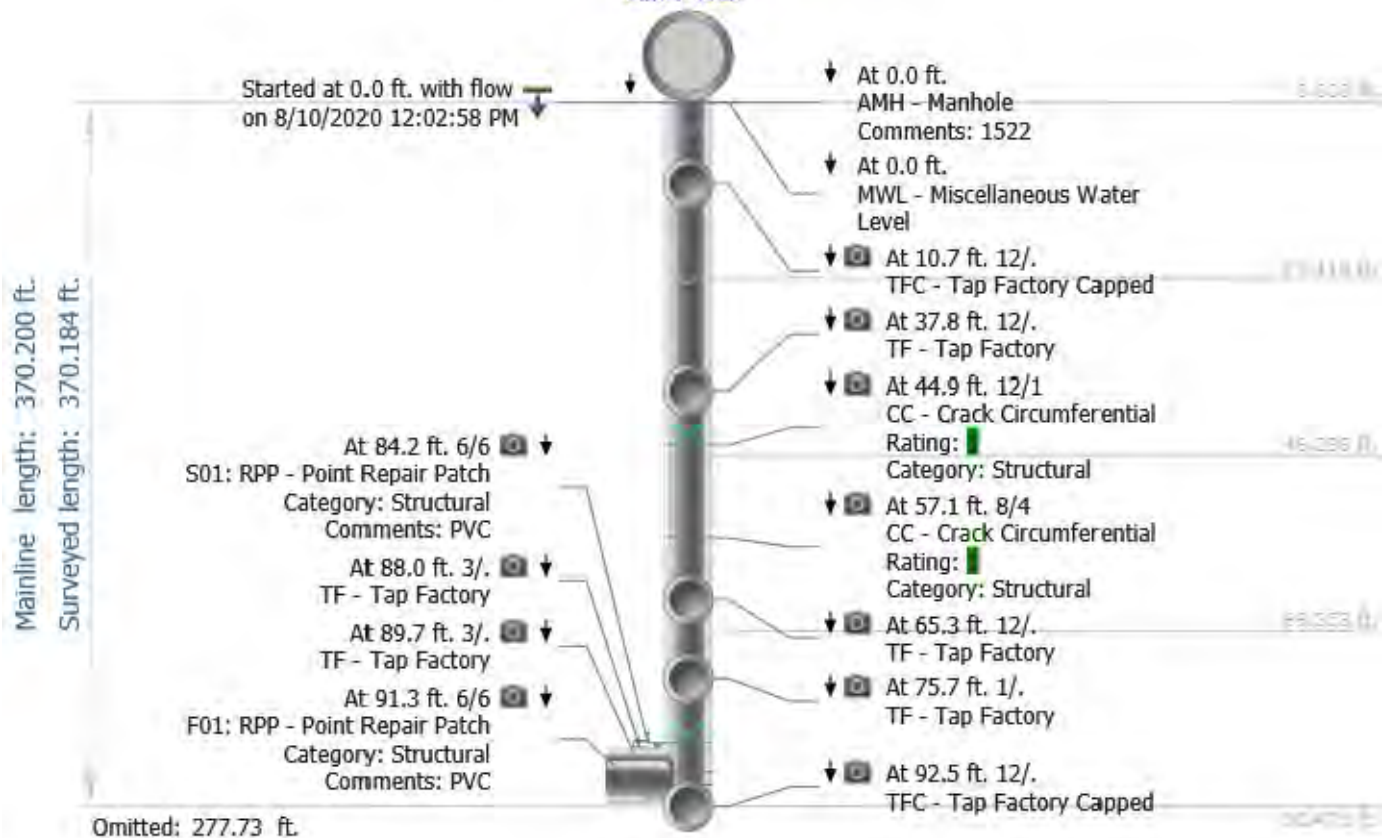
NWMCC INSPECTION REPORT

Start date/time: 20200810 12:02	Weather: Dry - No precipitation during survey	Surveyed by: J.HASHEM	Certificate number: 000-0000-0000	Pipe segment ref.: 1522/1521
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: TIG001-23
City: VERNON CT	Street: MOUNTAIN ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 1522	Downstream MH No: 1521	Direction: D	Total length: 370.200 ft.	Length surveyed: 370.184 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Vitrified Clay Pipe	LateralsCounter: Additional info:

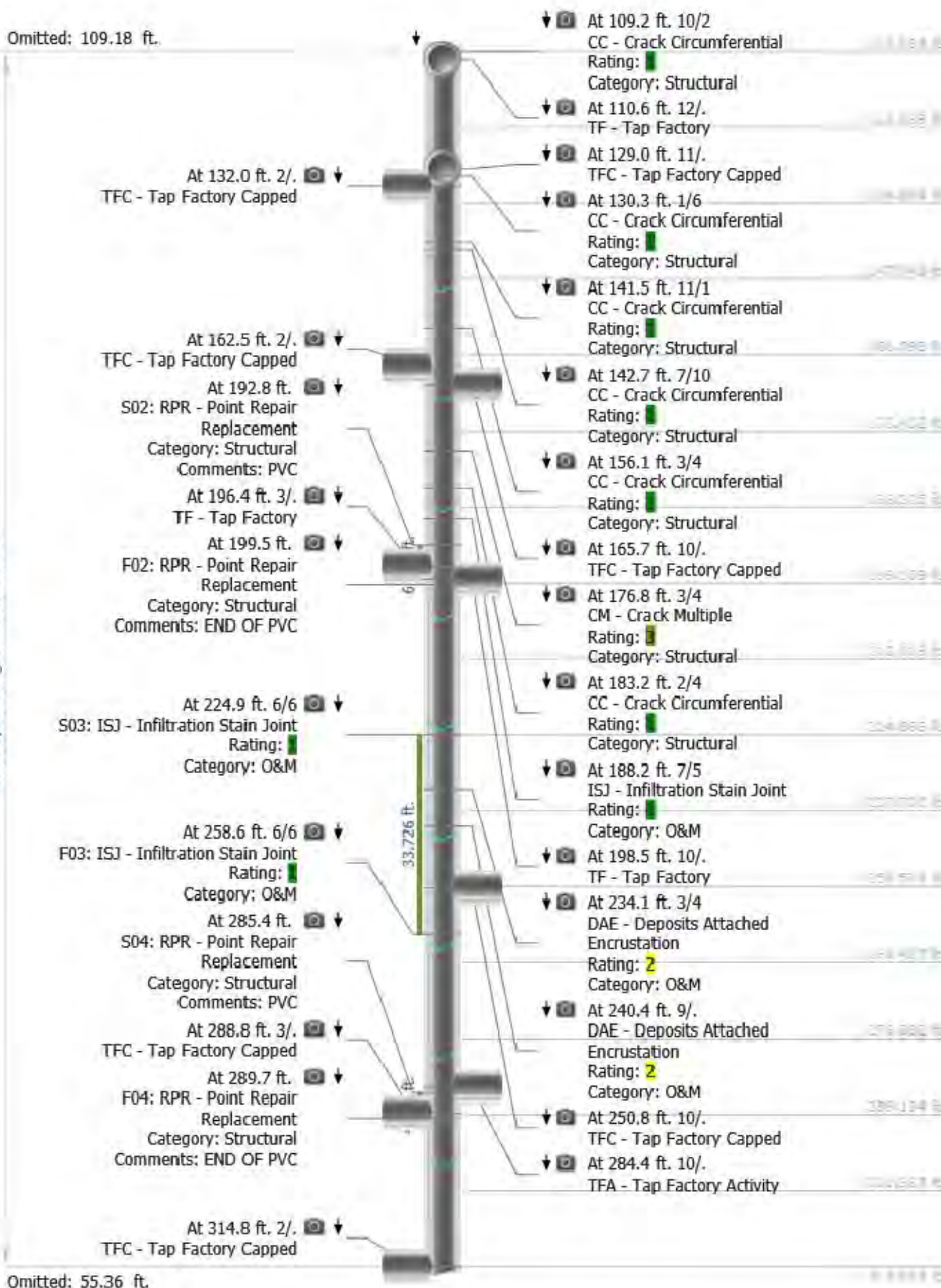
Pipe Ratings

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	10	13	311A	1.2	0	8	12	2218	1.2	25	1.2	3.1	
2	0	0				0	4							
3	0	3				0	0							
4	0	0				0	0							
5	0	0				0	0							

AMH '1522'



Mainline length: 370.200 ft.
 Surveyed length: 370.184 ft.



Mainline length: 370.200 ft.
Surveyed length: 370.184 ft.

Omitted: 326.05 ft.

Stopped at 370.2 ft. with flow
on 8/10/2020 12:30:21 PM

AMH '1521'

At 326.1 ft. 3/5 CC - Crack Circumferential Rating:  Category: Structural	326.058 ft.
	328.808 ft.
At 331.9 ft. 6/6 RPP - Point Repair Patch Category: Structural Comments: PVC	331.558 ft.
	334.328 ft.
	337.038 ft.
	339.847 ft.
At 343.7 ft. 6/6 RPP - Point Repair Patch Category: Structural Comments: PVC	342.588 ft.
At 346.5 ft. 7/2 CC - Crack Circumferential Rating:  Category: Structural	345.358 ft.
	348.115 ft.
	350.884 ft.
	353.644 ft.
	356.403 ft.
	359.163 ft.
	361.923 ft.
	364.633 ft.
At 366.8 ft. 1/. TF - Tap Factory	367.441 ft.
At 370.2 ft. AMH - Manhole Comments: 1521	370.200 ft.

END OF SURVEY

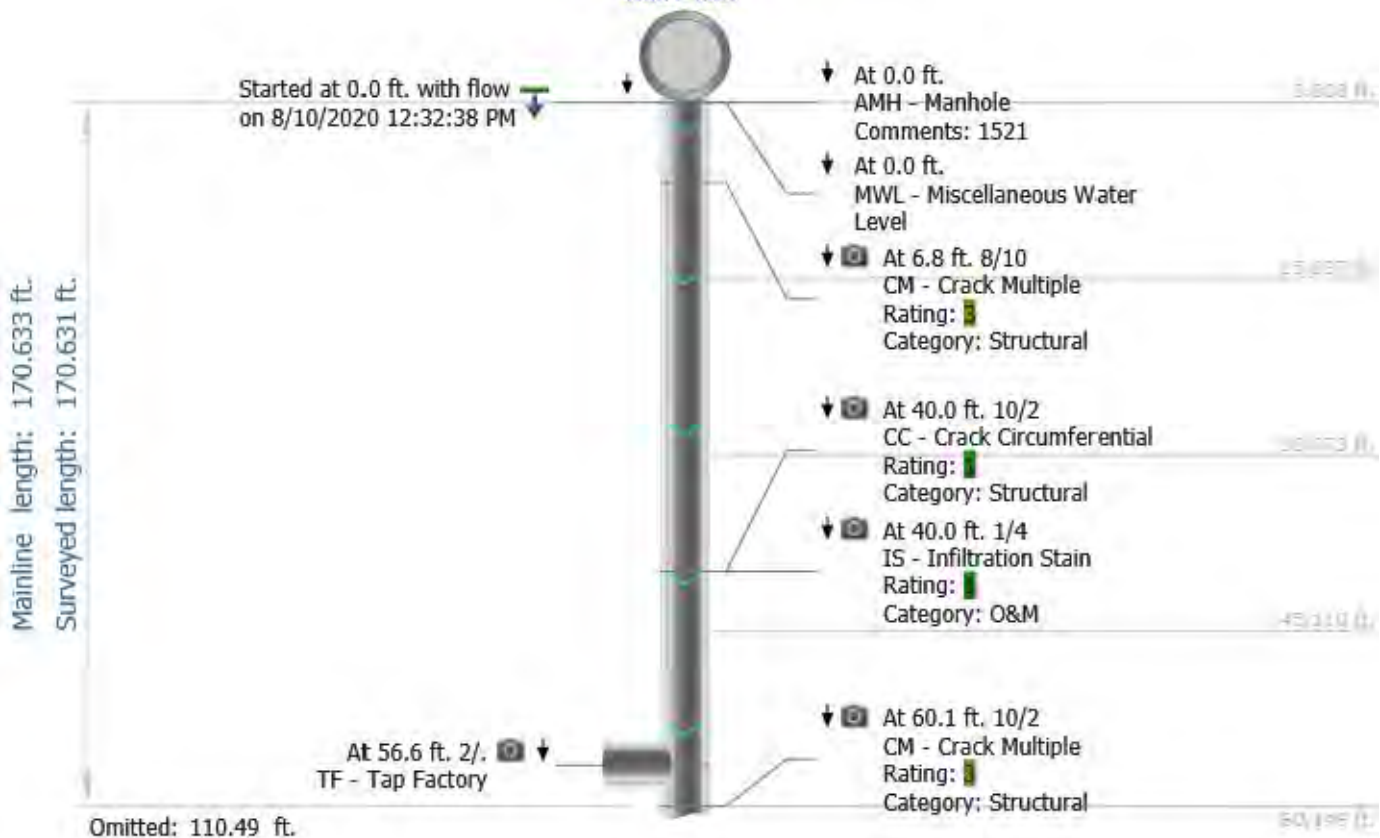
NWMCC INSPECTION REPORT

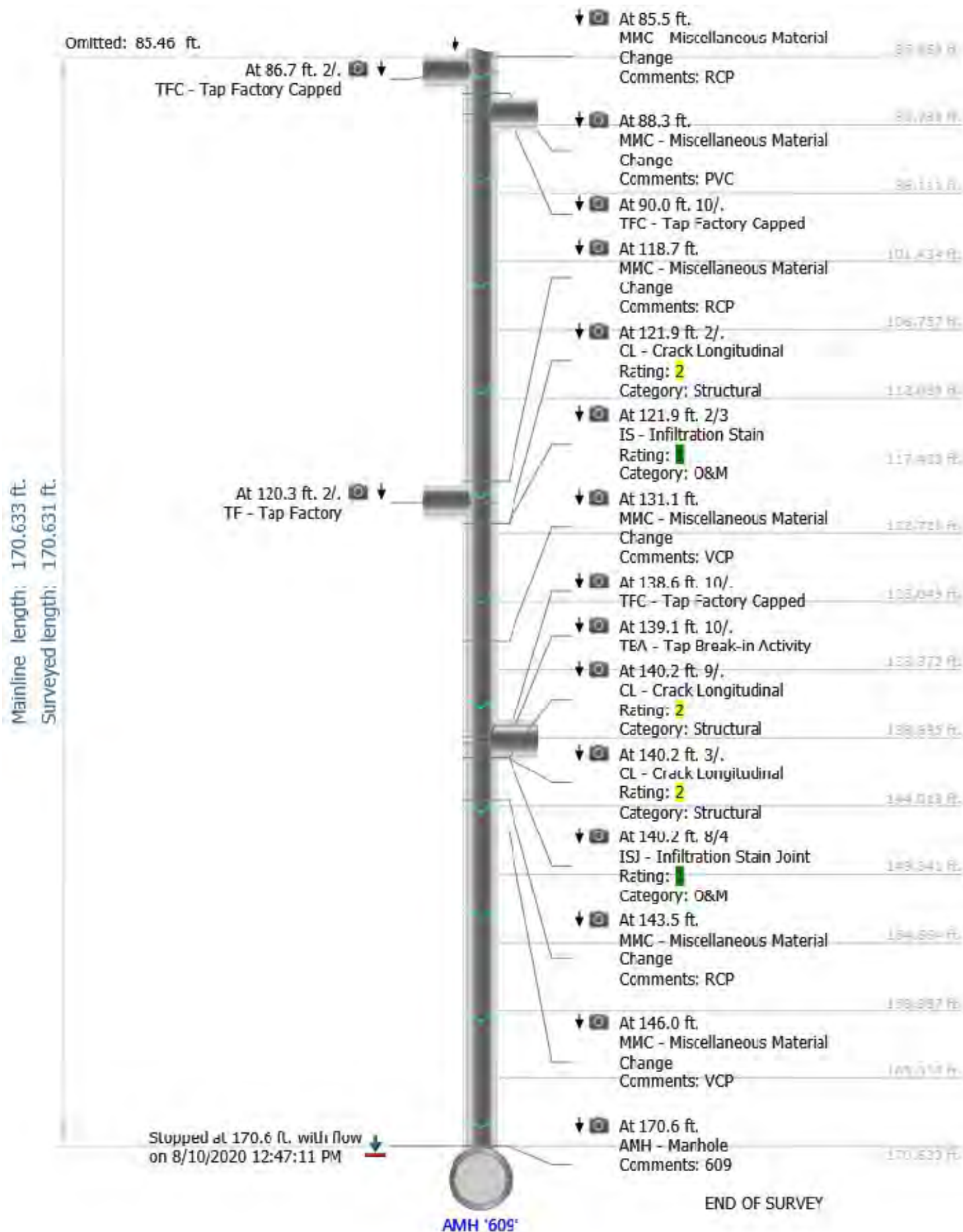
Start date/time: 20200810 12:32	Weather: Dry - No precipitation during survey	Surveyed by: J.HASHEM	Certificate number: 000-0000-0000	Pipe segment ref.: 1521/609
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: TIG001-23
City: VERNON CT	Street: MOUNTAIN ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 1521	Downstream MH No: 609	Direction: D	Total length: 170.633 ft.	Length surveyed: 170.631 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	1	13	3223	2.2	0	3	3	1300	1.0	16	1.8	3.2	
2	0	6				0	0							
3	0	6				0	0							
4	0	0				0	0							
5	0	0				0	0							

AMH '1521'





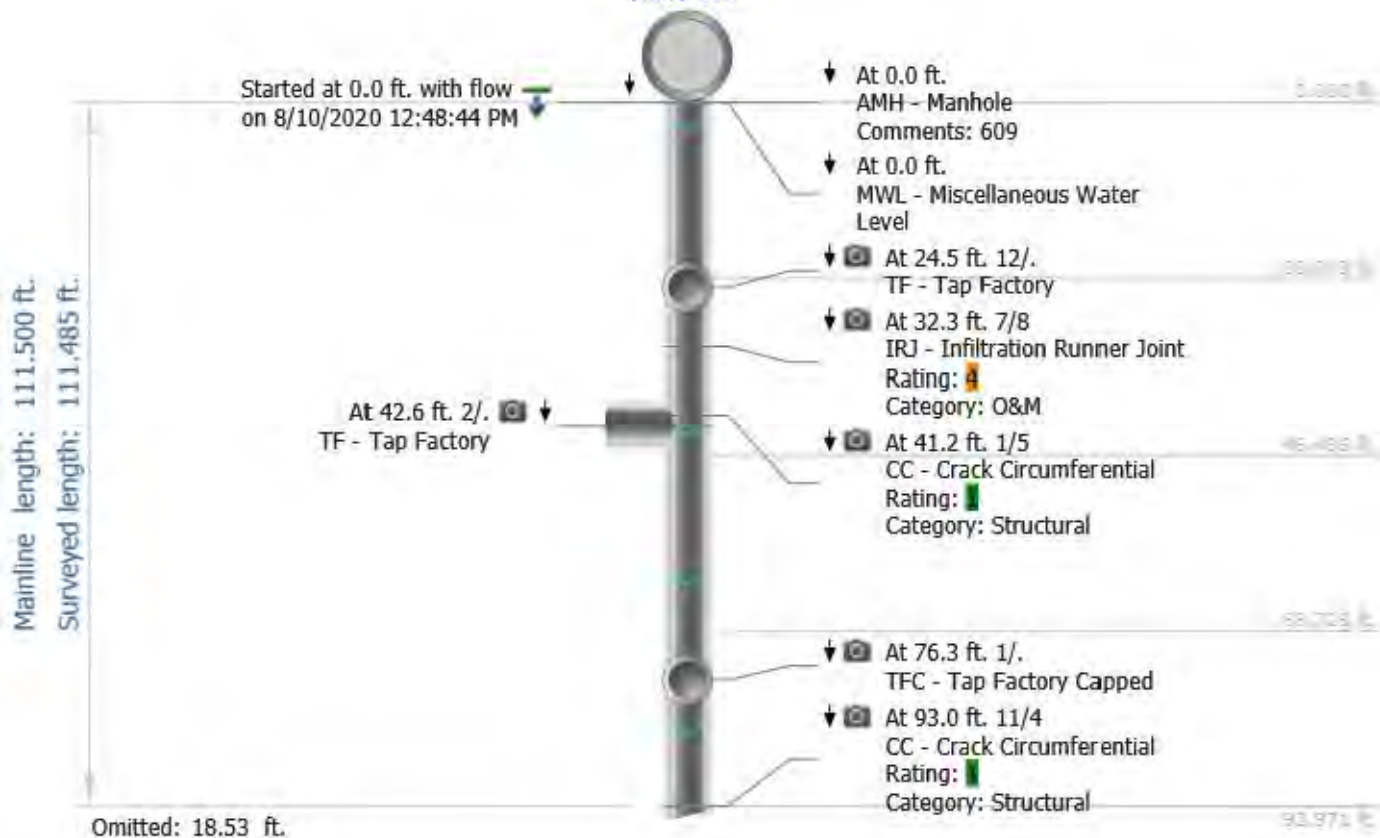
NWMCC INSPECTION REPORT

Start date/time: 20200810 12:48	Weather: Dry - No precipitation during survey	Surveyed by: J.HASHEM	Certificate number: 000-0000-0000	Pipe segment ref.: 609/608
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: TIG001-23
City: VERNON CT	Street: MOUNTAIN ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 609	Downstream MH No: 608	Direction: D	Total length: 111.500 ft.	Length surveyed: 111.485 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	3	3	1300	1.0	0	0	4	4100	4.0	7	1.8	4.1	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	4							
5	0	0				0	0							

AMH '609'



Mainline length: 111.500 ft.
Surveyed length: 111.485 ft.

Omitted: 98.68 ft.

↓ At 98.7 ft. 11/1
CC - Crack Circumferential
Rating: 
Category: Structural

98.676 ft.

99.473 ft.

100.279 ft.

101.081 ft.

101.882 ft.

102.684 ft.

103.485 ft.

104.287 ft.

105.088 ft.

105.890 ft.

106.691 ft.

107.493 ft.

108.294 ft.

109.096 ft.

109.897 ft.

110.699 ft.

Stopped at 111.5 ft. with flow
on 8/10/2020 1:25:40 PM

↓ At 111.5 ft.
AMH - Manhole
Comments: 608
END OF SURVEY

111.500 ft.

AMH '608'

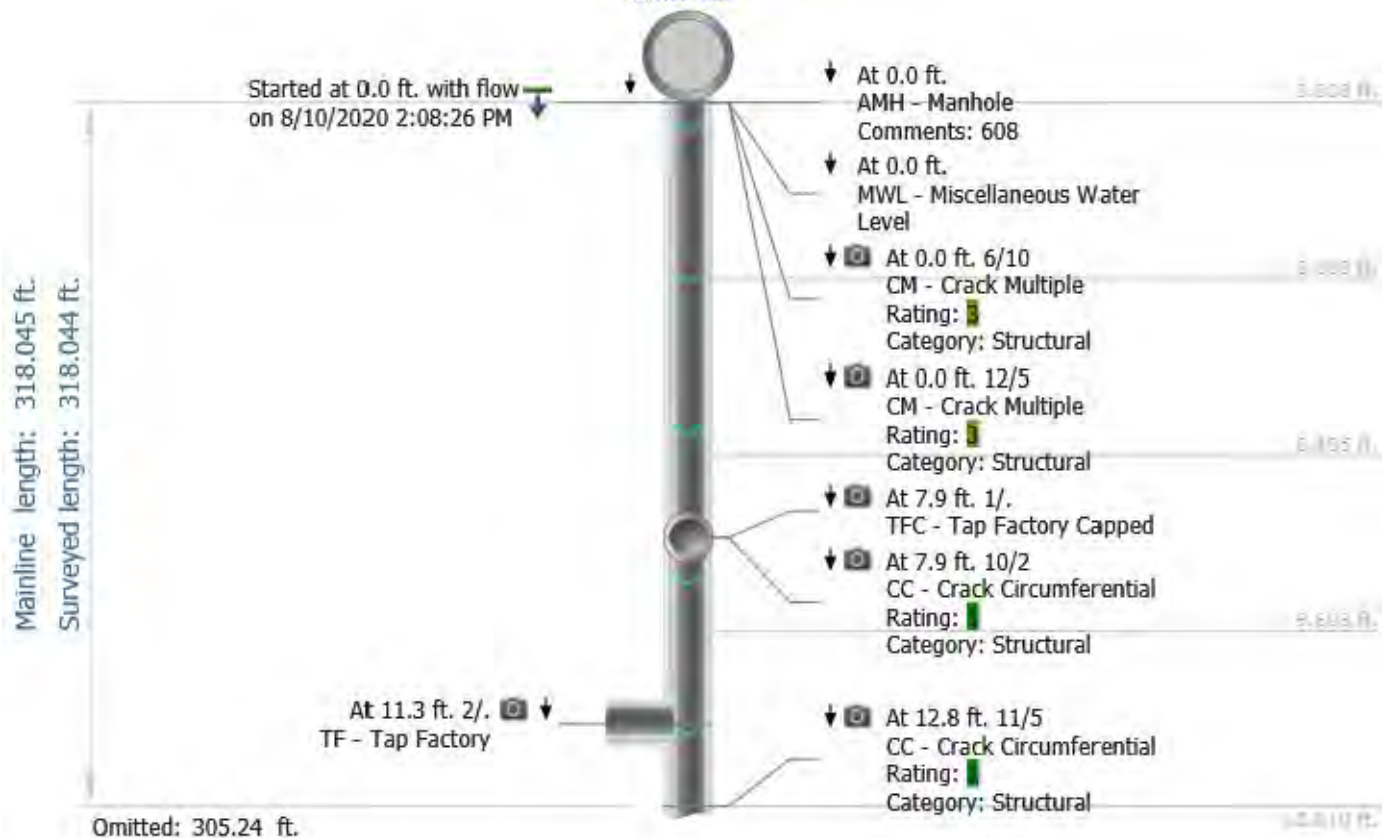
NWMCC INSPECTION REPORT

Start date/time: 20200810 14:08	Weather: Dry - No precipitation during survey	Surveyed by: J.HASHEM	Certificate number: 000-0000-0000	Pipe segment ref.: 608/607
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: TIG001-23
City: VERNON CT	Street: MOUNTAIN ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 608	Downstream MH No: 607	Direction: D	Total length: 318.045 ft.	Length surveyed: 318.044 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Vitrified Clay Pipe	LateralsCounter: Additional info:

Pipe Ratings

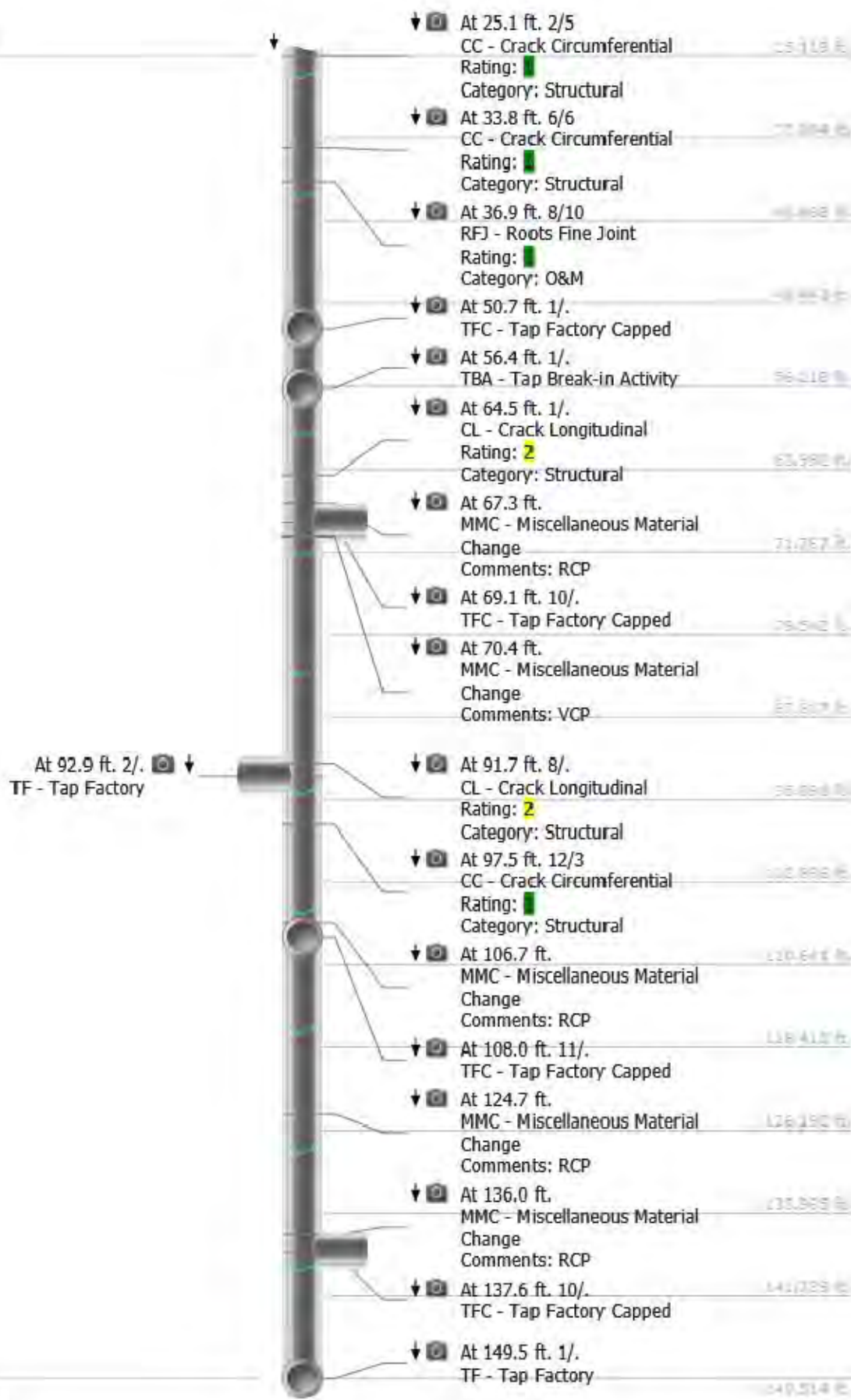
Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	10	28	3423	1.6	0	1	4	3111	2.0	32	1.7	3.5	
2	0	6				0	0							
3	0	12				0	3							
4	0	0				0	0							
5	0	0				0	0							

AMH '608'



Mainline length: 318.045 ft.
 Surveyed length: 318.044 ft.

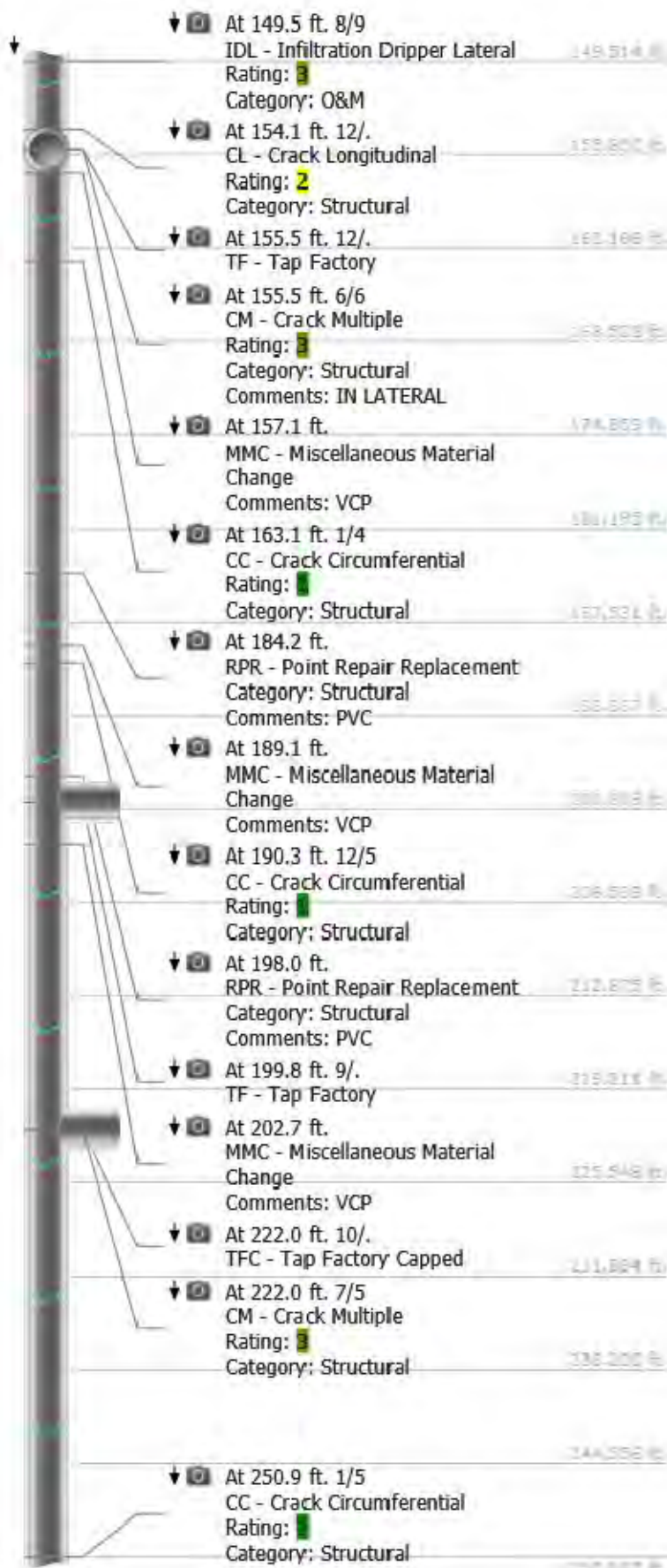
Omitted: 25.12 ft.



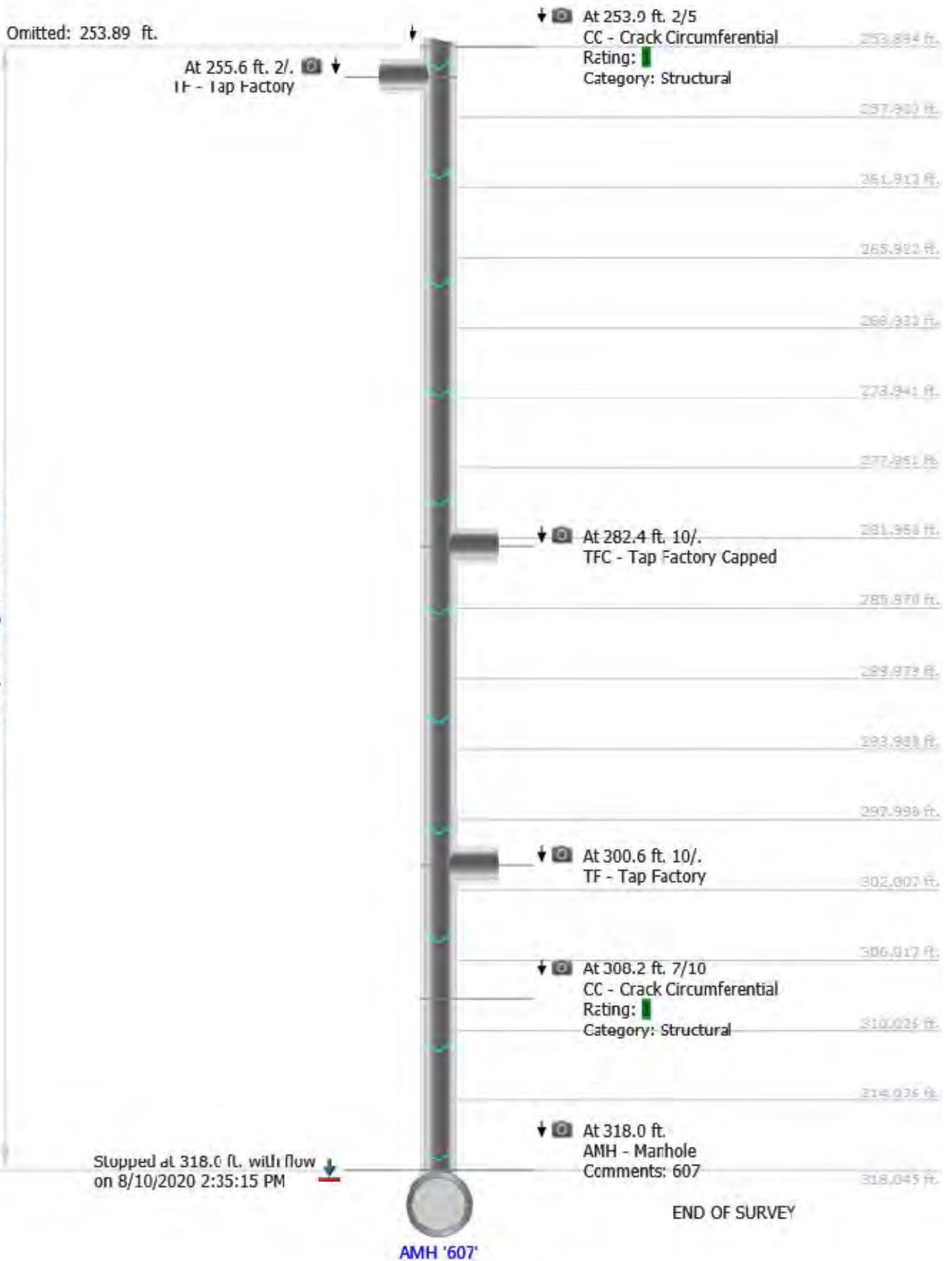
Mainline length: 318.045 ft.
 Surveyed length: 318.044 ft.

Omitted: 149.51 ft.

Omitted: 67.15 ft.



Mainline length: 318.045 ft.
Surveyed length: 318.044 ft.



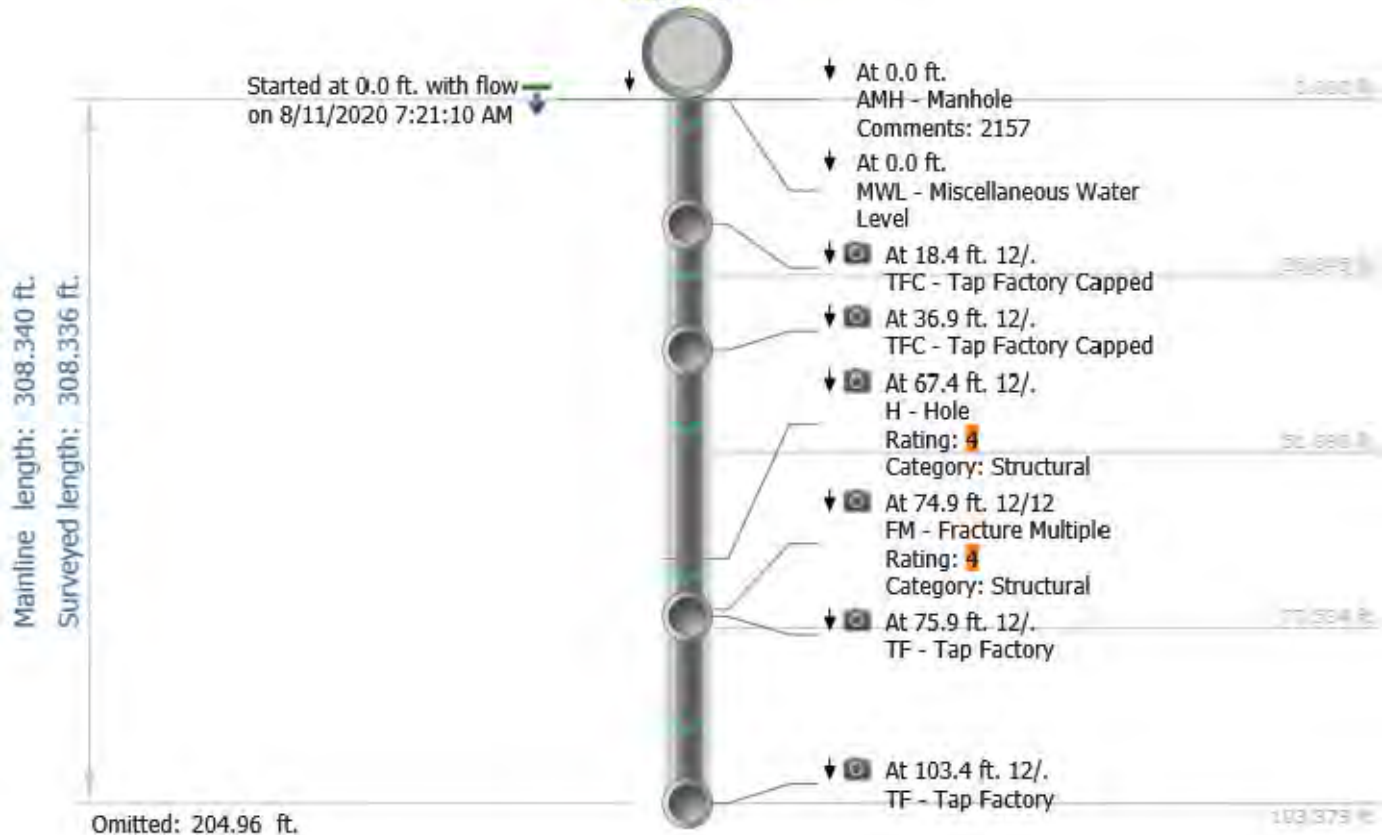
NWMCC INSPECTION REPORT

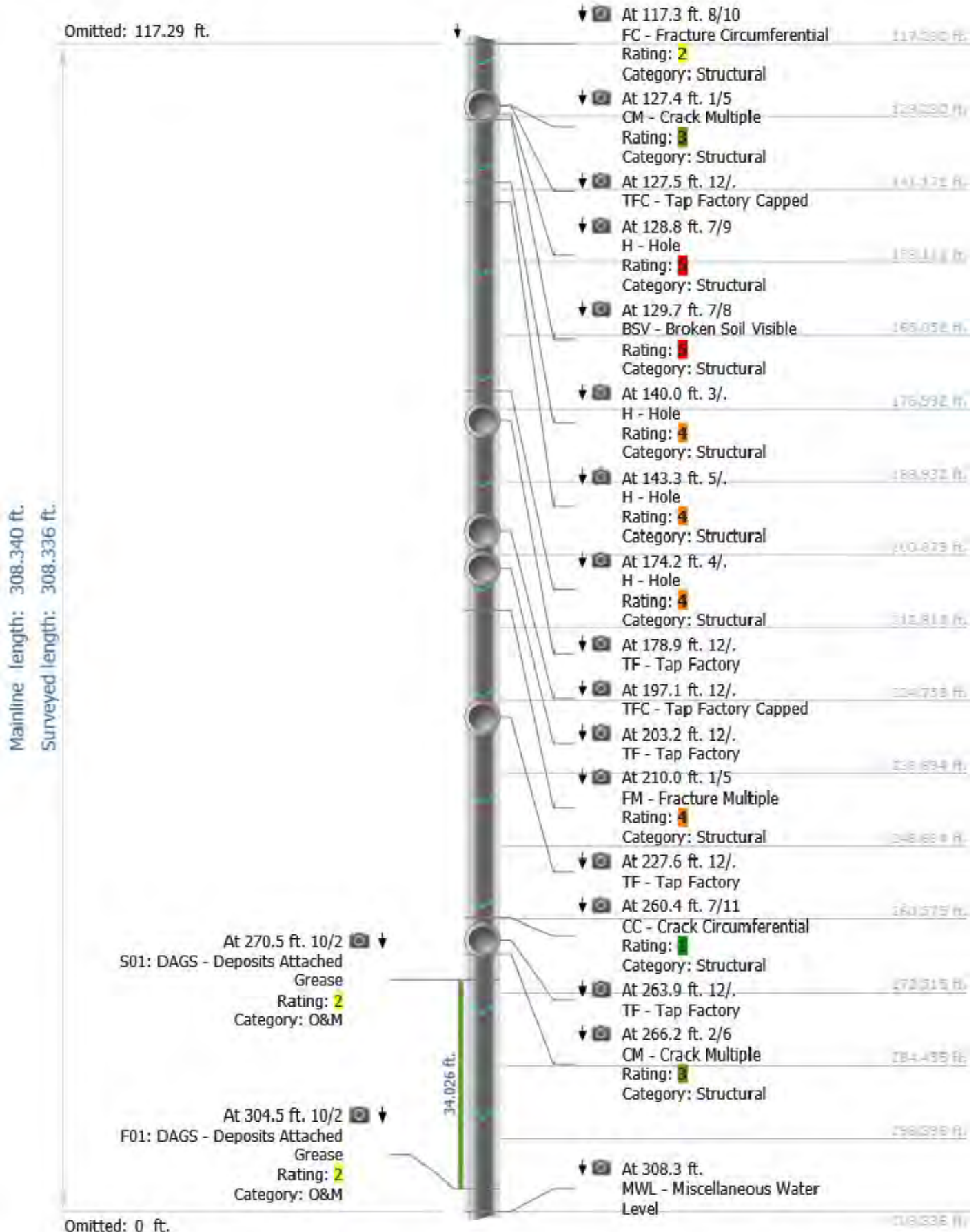
Start date/time: 20200811 07:21	Weather: Dry - No precipitation during survey	Surveyed by: J.HASHEM	Certificate number: 000-0000-0000	Pipe segment ref.: 2157-1525
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: TIG001-23
City: VERNON CT	Street: PROSPECT ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 2157	Downstream MH No: 1525	Direction: D	Total length: 308.340 ft.	Length surveyed: 308.336 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	1	43	5246	3.6	0	0	14	2700	2.0	57	3.0	5.2	
2	0	2				0	14							
3	0	6				0	0							
4	0	24				0	0							
5	0	10				0	0							

AMH '2157'





Mainline length: 308.340 ft.
Surveyed length: 308.336 ft.

Omitted: 308.34 ft.

Stopped at 308.3 ft. with flow
on 8/11/2020 7:59:25 AM

At 308.3 ft.
AMH - Manhole
Comments: DS MH SURVEY ENDS

308.336 ft.

308.337 ft.

308.337 ft.

308.338 ft.

308.338 ft.

308.339 ft.

308.339 ft.

308.340 ft.

308.340 ft.

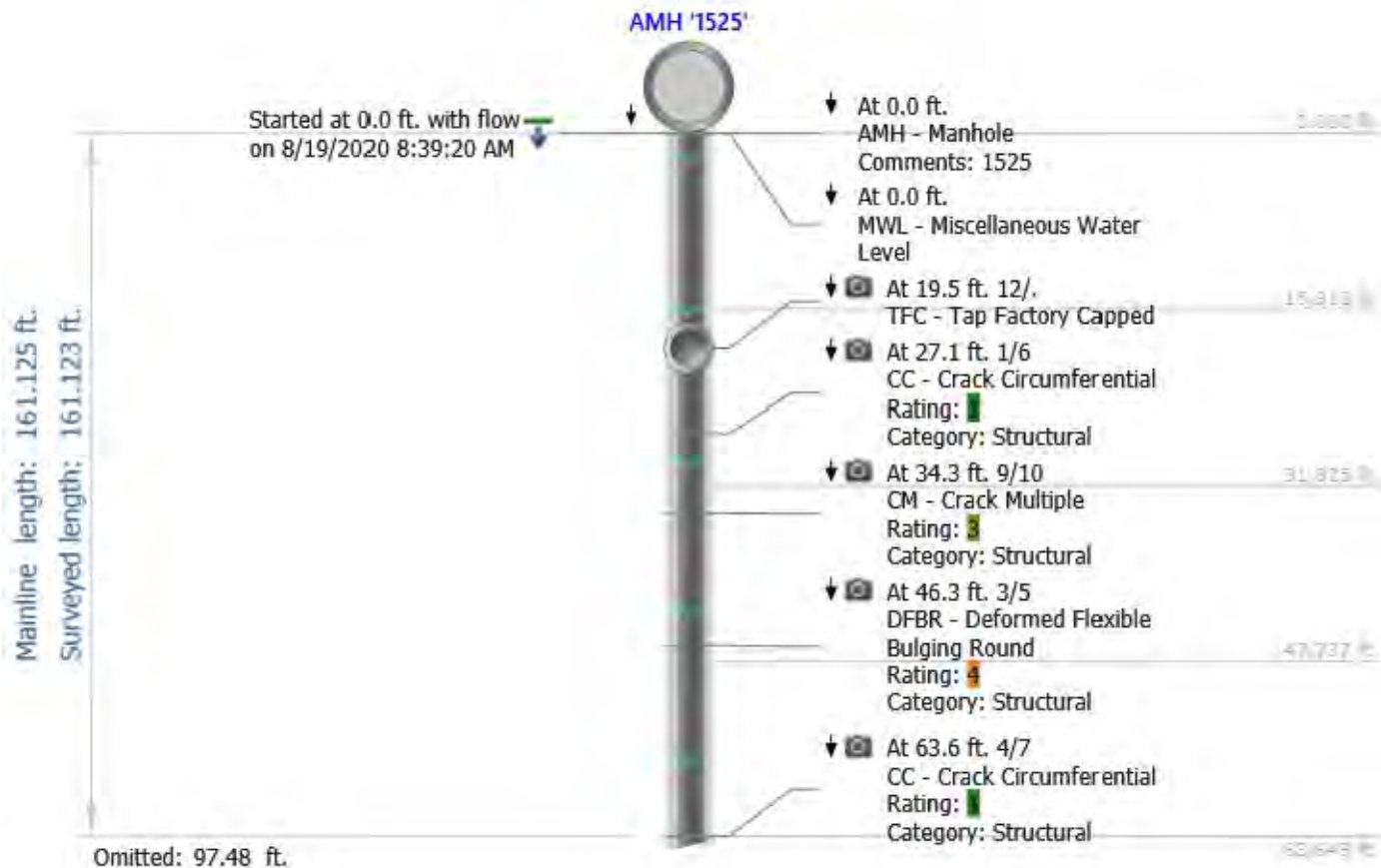
AMH '1525'

NWMCC INSPECTION REPORT

Start date/time: 20200819 08:39		Weather: Dry - No precipitation during survey		Surveyed by: J.HASHEM		Certificate number: 000-0000-0000		Pipe segment ref.: 1525/120	
Owner:		Customer:		Pre-cleaning: Light Cleaning		Date cleaned:		Project name: TIG001-23	
City: VERNON CT		Street: PROSPECT ST		Location code:		Pipe use: Sanitary Sewage Pipe		Drainage area: Flow control:	
Upstream MH No: 1525		Downstream MH No: 120		Direction: D		Total length: 161.125 ft.		Length surveyed: 161.123 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	5	18	4133	2.0	0	1	5	4111	2.5	23	2.1	4.2	
2	0	0				0	0							
3	0	9				0	0							
4	0	4				0	4							
5	0	0				0	0							



Mainline length: 161.125 ft.
 Surveyed length: 161.123 ft.

Omitted: 78.66 ft.

Stopped at 161.1 ft. with flow
 on 8/19/2020 8:52:30 AM

AMH '120'

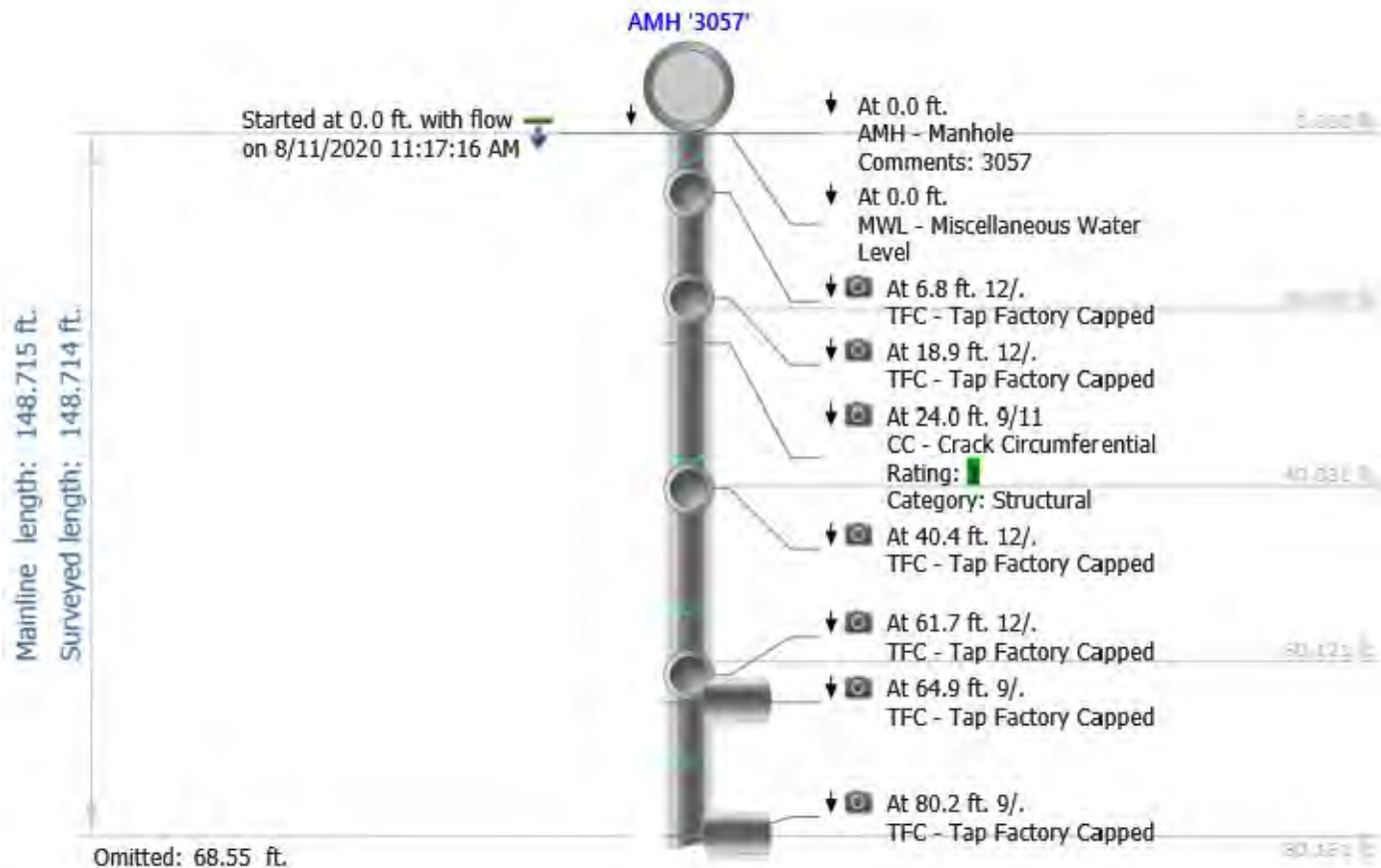
At 78.7 ft. 1/3	78.700 ft.
RFJ - Roots Fine Joint	
Rating: 1	
Category: O&M	
At 85.4 ft. 3/7	85.400 ft.
CC - Crack Circumferential	
Rating: 1	
Category: Structural	
At 91.0 ft. 12/6	91.000 ft.
CM - Crack Multiple	
Rating: 2	
Category: Structural	
At 105.9 ft. 4/6	105.900 ft.
CC - Crack Circumferential	
Rating: 1	
Category: Structural	
At 113.6 ft. 10/.	113.600 ft.
TFC - Tap Factory Capped	
At 121.3 ft. 3/6	121.300 ft.
CC - Crack Circumferential	
Rating: 1	
Category: Structural	
At 150.4 ft.	150.400 ft.
MMC - Miscellaneous Material	
Change	
Comments: PVC	
At 154.5 ft.	154.500 ft.
MMC - Miscellaneous Material	
Change	
Comments: VCP	
At 154.5 ft. 7/2	154.500 ft.
CM - Crack Multiple	
Rating: 2	
Category: Structural	
At 161.1 ft.	161.100 ft.
MMC - Miscellaneous Material	
Change	
Comments: PVC	
At 161.1 ft.	161.100 ft.
LD - Line Down	
Rating: 3	
Category: O&M	
Comments: DROP TO LOWER PVC	
INTO MH	
At 161.1 ft.	161.100 ft.
MSA - Miscellaneous Survey	
Abandoned	
Category: O&M	
Comments: END OF SURVEY	

NWMCC INSPECTION REPORT

Start date/time: 20200811 11:17		Weather: Dry - No precipitation during survey		Surveyed by: J.HASHEM		Certificate number: 000-0000-0000		Pipe segment ref.: 3057-3056	
Owner:		Customer:		Pre-cleaning: Light Cleaning		Date cleaned:		Project name: TIG001-23	
City: VERNON CT		Street: PROSPECT ST		Location code:		Pipe use: Sanitary Sewage Pipe		Drainage area: Flow control:	
Upstream MH No: 3057		Downstream MH No: 3056		Direction: D		Total length: 148.715 ft.		Length surveyed: 148.714 ft.	
Purpose: Maintenance Related		Pipe joint length:		Height: 8 in.		Material: Vitrified Clay Pipe		LateralsCounter: Additional info:	

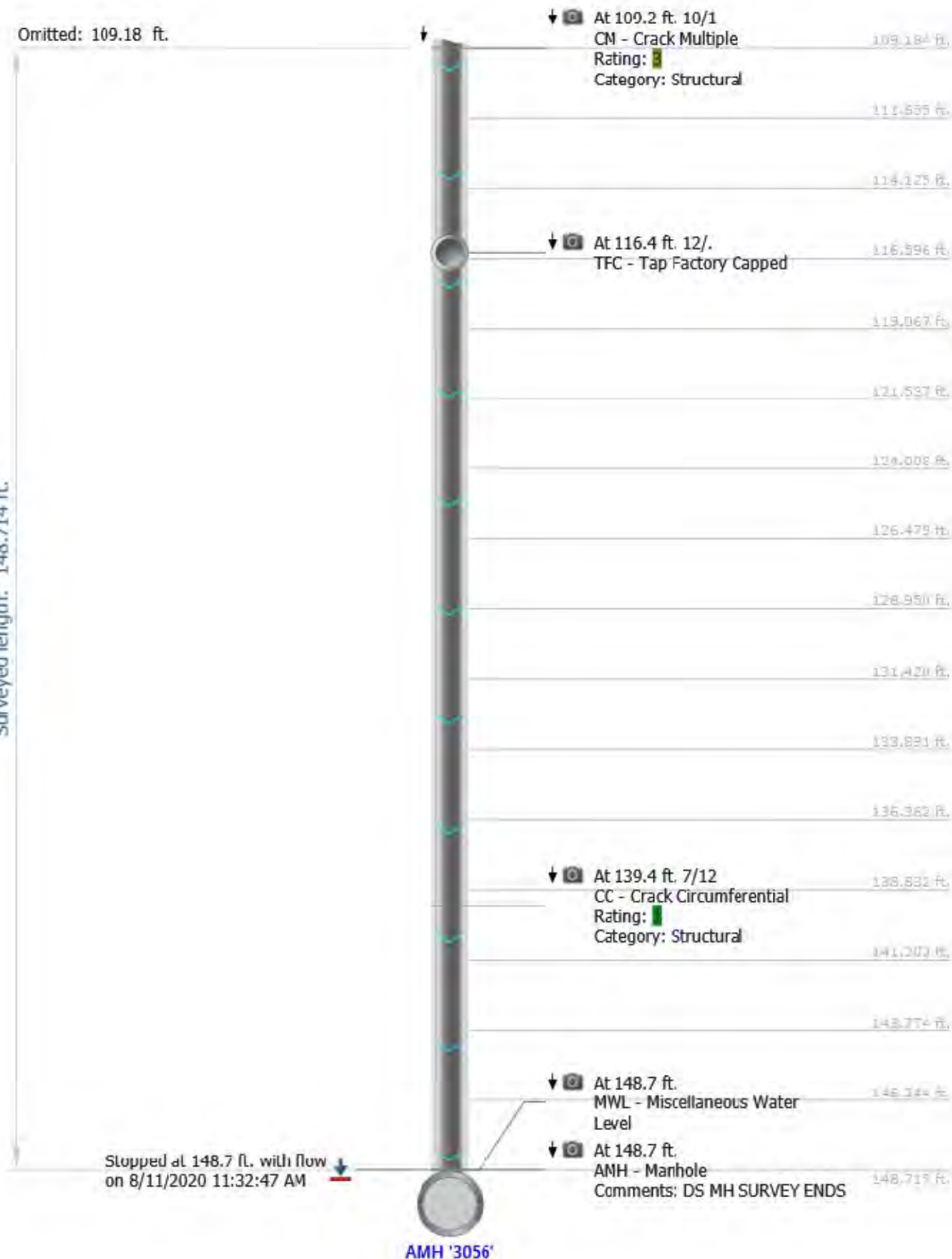
Pipe Ratings

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	2	5	3112	1.7	0	0	0	0000	0.0	5	1.7	3.1	
2	0	0				0	0							
3	0	3				0	0							
4	0	0				0	0							
5	0	0				0	0							



Mainline length: 148.715 ft.
 Surveyed length: 148.714 ft.

Omitted: 109.18 ft.



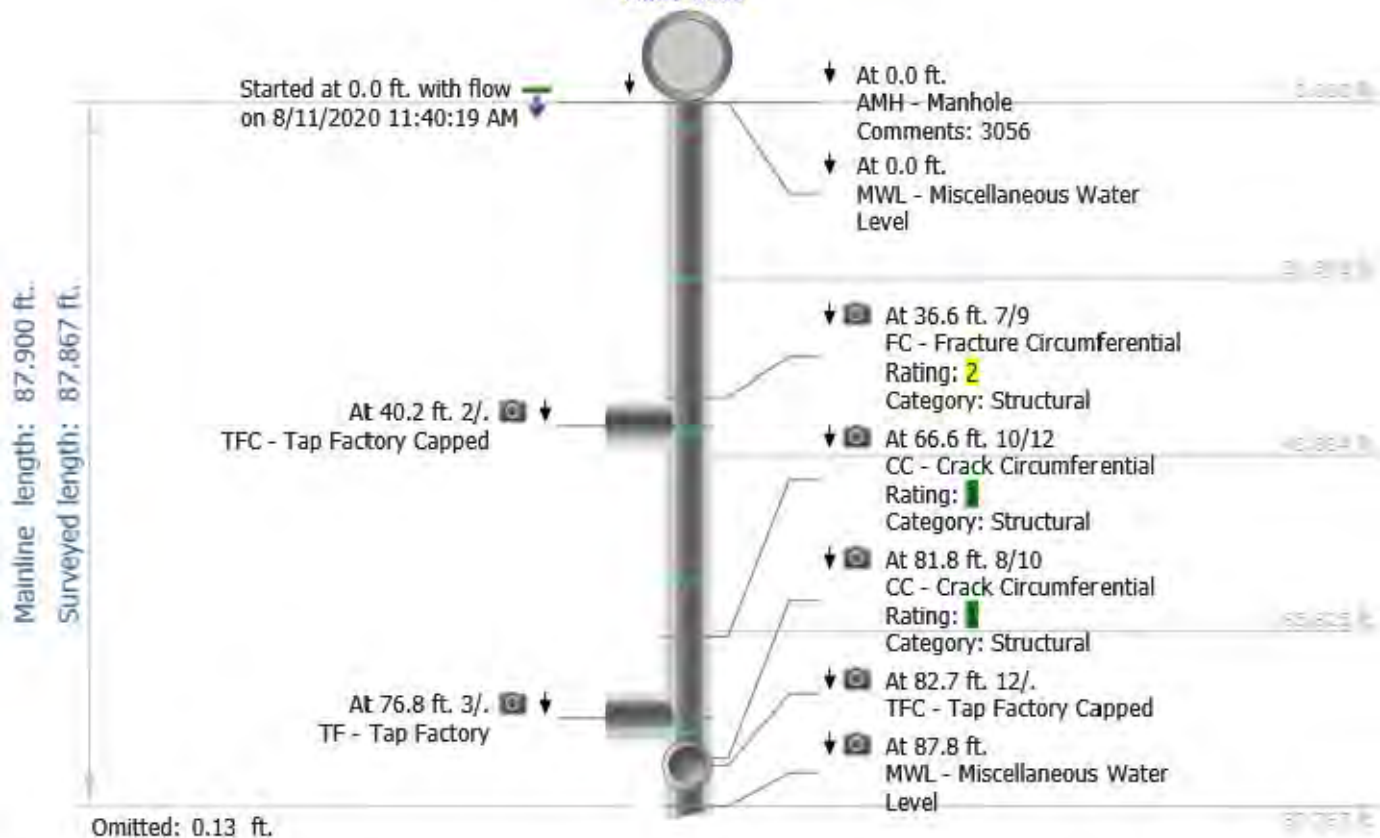
NWMCC INSPECTION REPORT

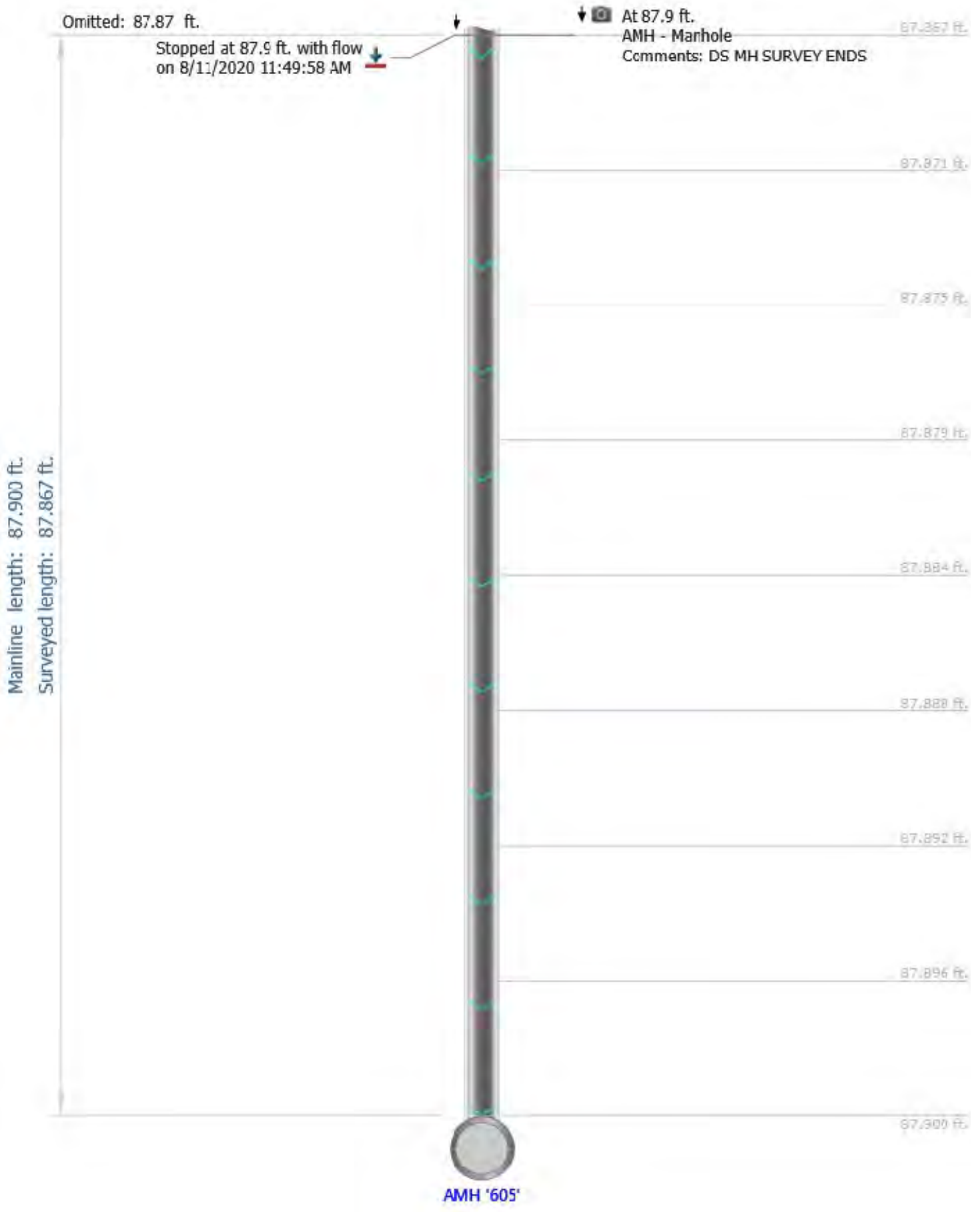
Start date/time: 20200811 11:40	Weather: Dry - No precipitation during survey	Surveyed by: alberto	Certificate number: u-0220-70308624	Pipe segment ref.: 3056-605
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: TIG001-23
City: VERNON CT	Street: PROSPECT ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 3056	Downstream MH No: 605	Direction: D	Total length: 87.900 ft.	Length surveyed: 87.867 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	2	4	2112	1.3	0	0	0	0000	0.0	4	1.3	2.1	
2	0	2				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							

AMH '3056'





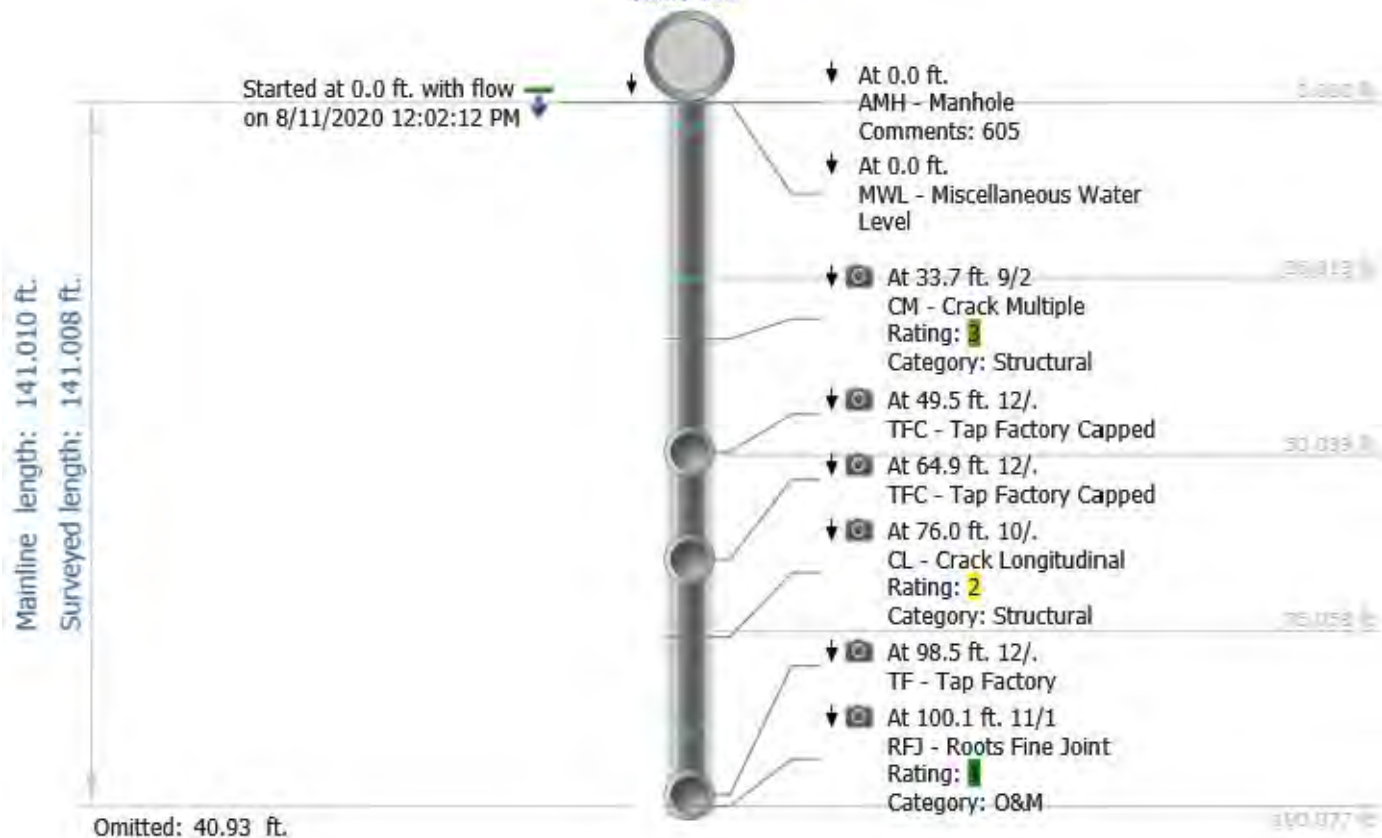
NWMCC INSPECTION REPORT

Start date/time: 20200811 12:02	Weather: Dry - No precipitation during survey	Surveyed by: alberto	Certificate number: u-0220-70308624	Pipe segment ref.: 605-604
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: TIG001-23
City: VERNON CT	Street: PARK ST ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 605	Downstream MH No: 604	Direction: D	Total length: 141.010 ft.	Length surveyed: 141.008 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	8	3221	2.7	0	1	1	1100	1.0	9	2.2	3.2	
2	0	2				0	0							
3	0	6				0	0							
4	0	0				0	0							
5	0	0				0	0							

AMH '605'



Mainline length: 141.010 ft.
Surveyed length: 141.008 ft.

Omitted: 100.08 ft.

At 100.1 ft. 11/12
CN - Crack Multiple
Rating: 
Category: Structural

100.077 ft.

102.635 ft.

105.194 ft.

107.752 ft.

110.310 ft.

112.868 ft.

115.427 ft.

117.985 ft.

120.544 ft.

123.102 ft.

125.660 ft.

128.218 ft.

130.777 ft.

133.335 ft.

135.893 ft.

138.452 ft.

Stopped at 141.0 ft. with flow
on 8/11/2020 12:13:49 PM

At 141.0 ft.
ANH - Manhole
Comments: DS MH SURVEY ENDS

141.010 ft.

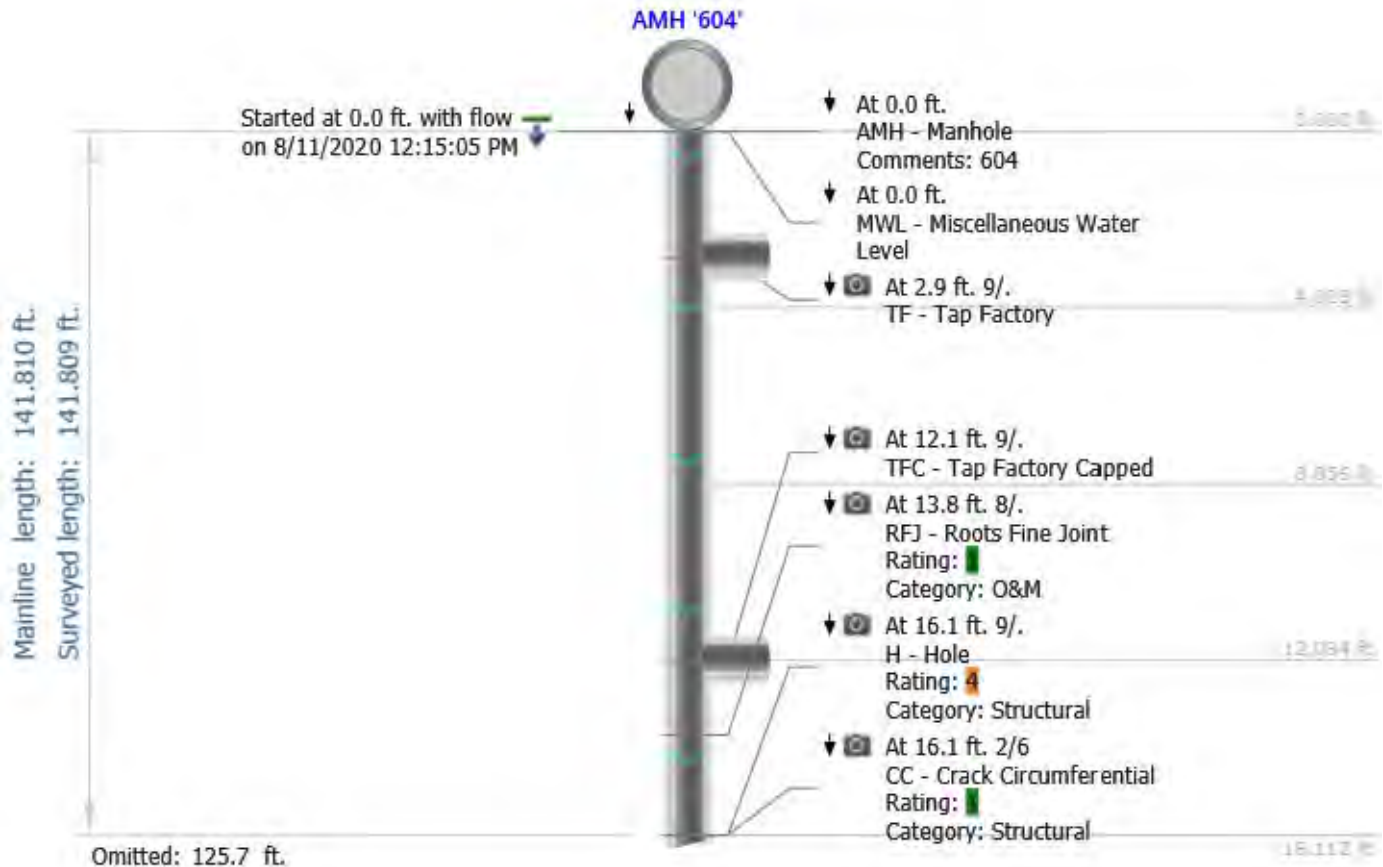
AMH '604'

NWMCC INSPECTION REPORT

Start date/time: 20200811 12:15		Weather: Dry - No precipitation during survey		Surveyed by: alberto		Certificate number: u-0220-70308624		Pipe segment ref.: 604-2160	
Owner:		Customer:		Pre-cleaning: Light Cleaning		Date cleaned:		Project name: TIG001-23	
City: VERNON CT		Street: PARK ST ST		Location code:		Pipe use: Sanitary Sewage Pipe		Drainage area: Flow control:	
Upstream MH No: 604		Downstream MH No: 2160		Direction: D		Total length: 141.810 ft.		Length surveyed: 141.809 ft.	
Purpose: Maintenance Related		Pipe joint length:		Height: 8 in.		Material: Vitrified Clay Pipe		LateralsCounter: Additional info:	

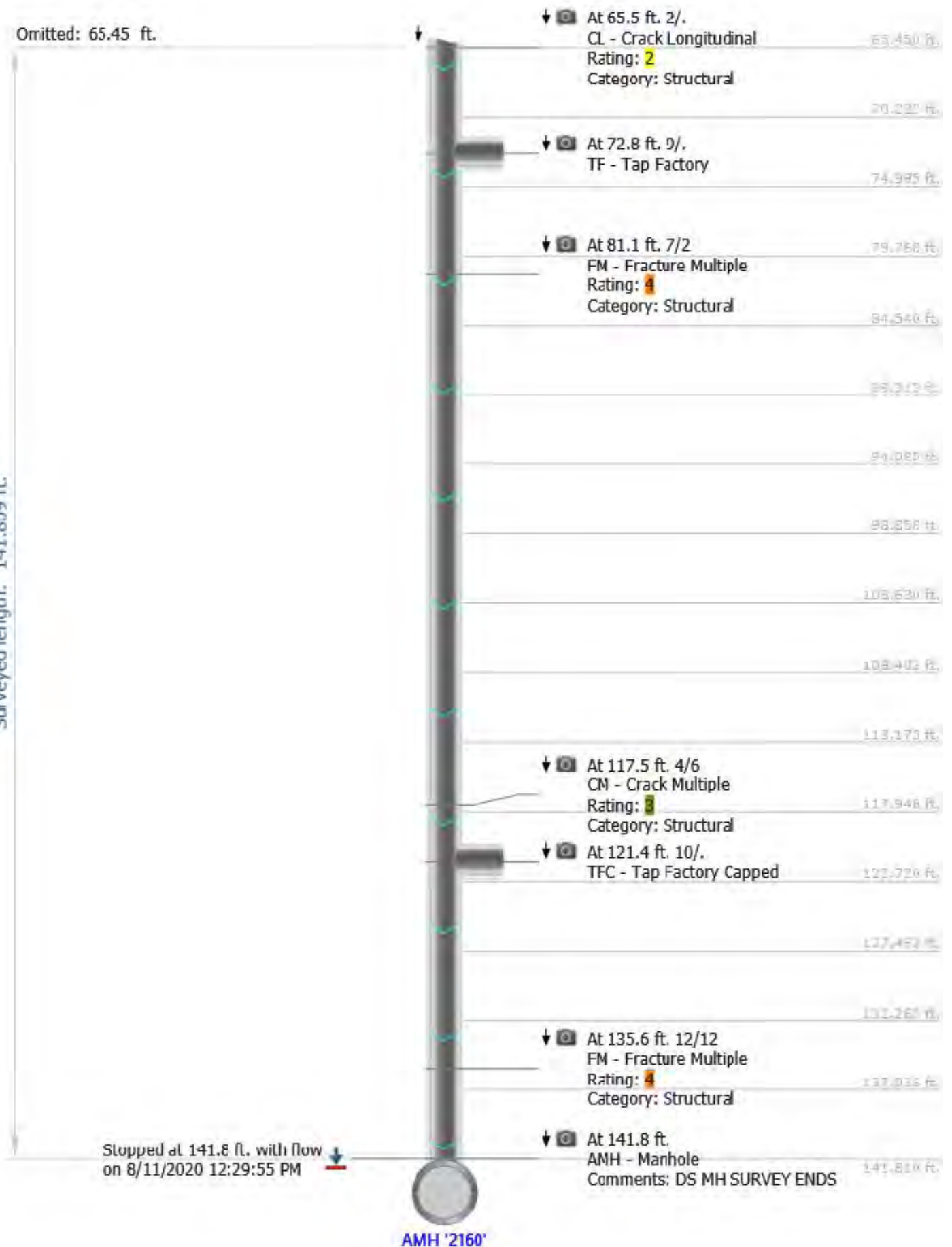
Pipe Ratings

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	1	18	4331	3.0	0	1	1	1100	1.0	19	2.7	4.3	
2	0	2				0	0							
3	0	3				0	0							
4	0	12				0	0							
5	0	0				0	0							



Mainline length: 141.810 ft.
 Surveyed length: 141.809 ft.

Omitted: 65.45 ft.

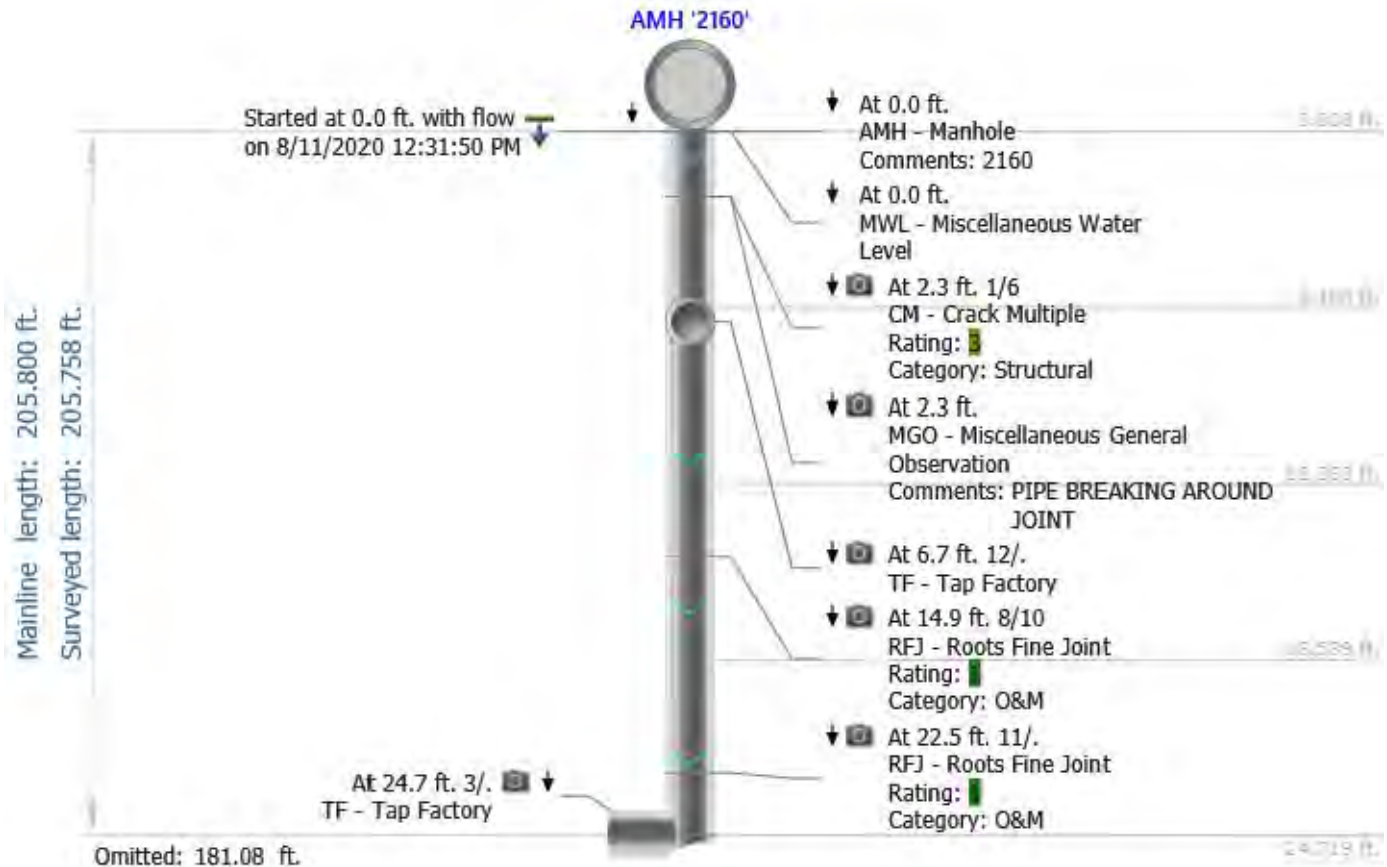


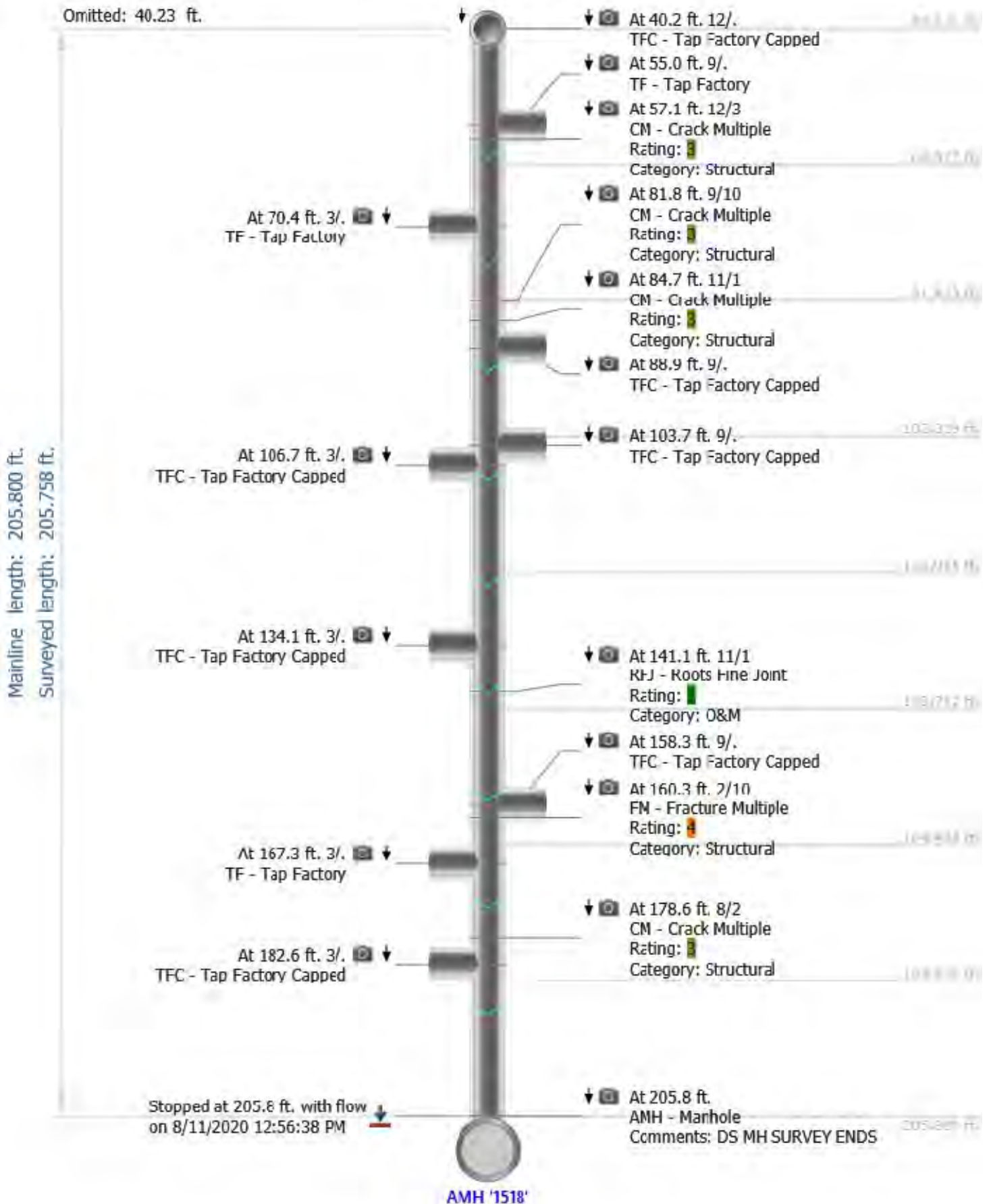
NWMCC INSPECTION REPORT

Start date/time: 20200811 12:31		Weather: Dry - No precipitation during survey		Surveyed by: alberto		Certificate number: u-0220-70308624		Pipe segment ref.: 2160-1518	
Owner:		Customer:		Pre-cleaning: Light Cleaning		Date cleaned:		Project name: TIG001-23	
City: VERNON CT		Street: PARK ST ST		Location code:		Pipe use: Sanitary Sewage Pipe		Drainage area: Flow control:	
Upstream MH No: 2160		Downstream MH No: 1518		Direction: D		Total length: 205.800 ft.		Length surveyed: 205.758 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	19	4135	3.2	0	3	3	1300	1.0	22	2.4	4.1	
2	0	0				0	0							
3	0	15				0	0							
4	0	4				0	0							
5	0	0				0	0							





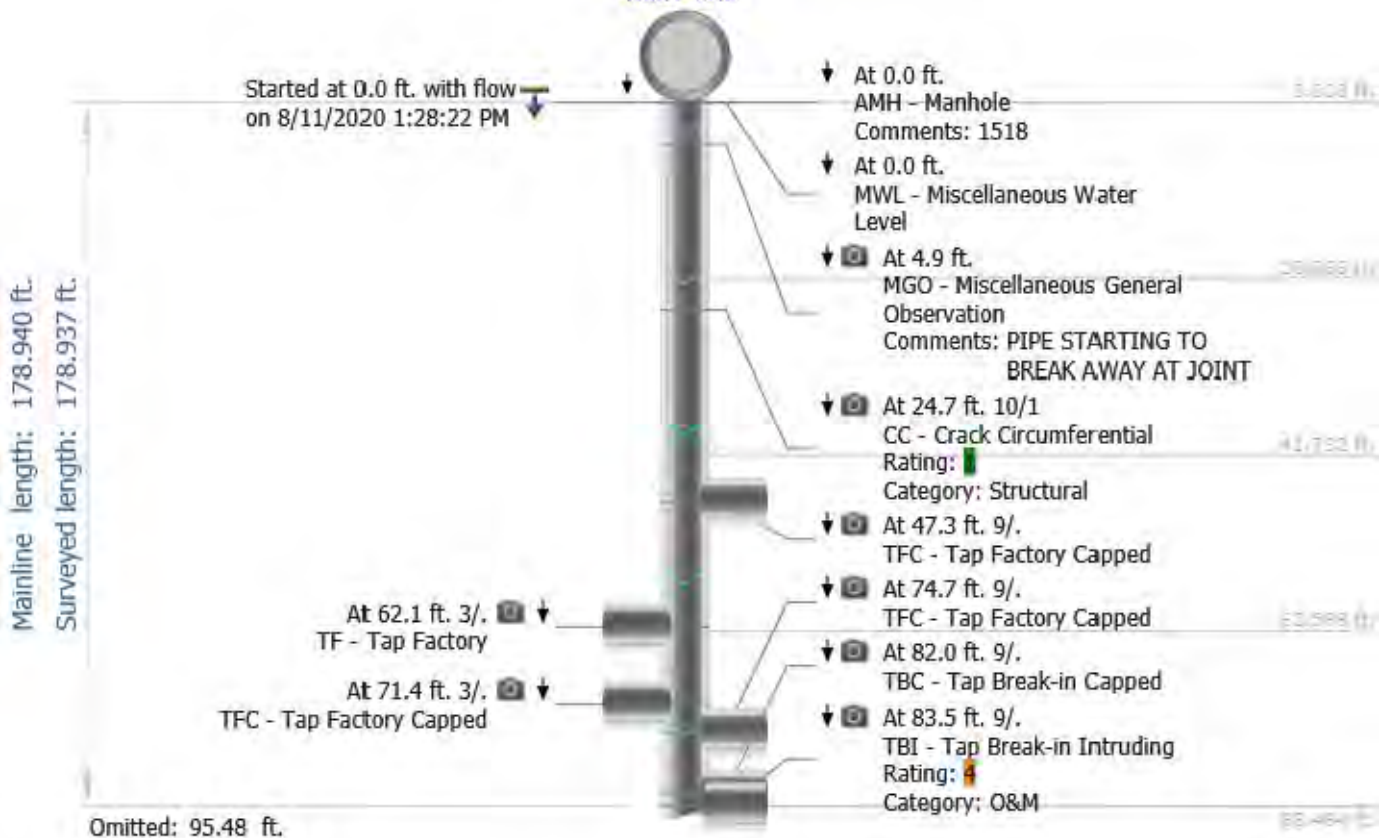
NWMCC INSPECTION REPORT

Start date/time: 20200811 13:28	Weather: Dry - No precipitation during survey	Surveyed by: alberto	Certificate number: u-0220-70308624	Pipe segment ref.: 1518-2831
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: TIG001-23
City: VERNON CT	Street: PARK ST ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 1518	Downstream MH No: 2831	Direction: D	Total length: 178.940 ft.	Length surveyed: 178.937 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Vitrified Clay Pipe	LateralsCounter: Additional info:

Pipe Ratings

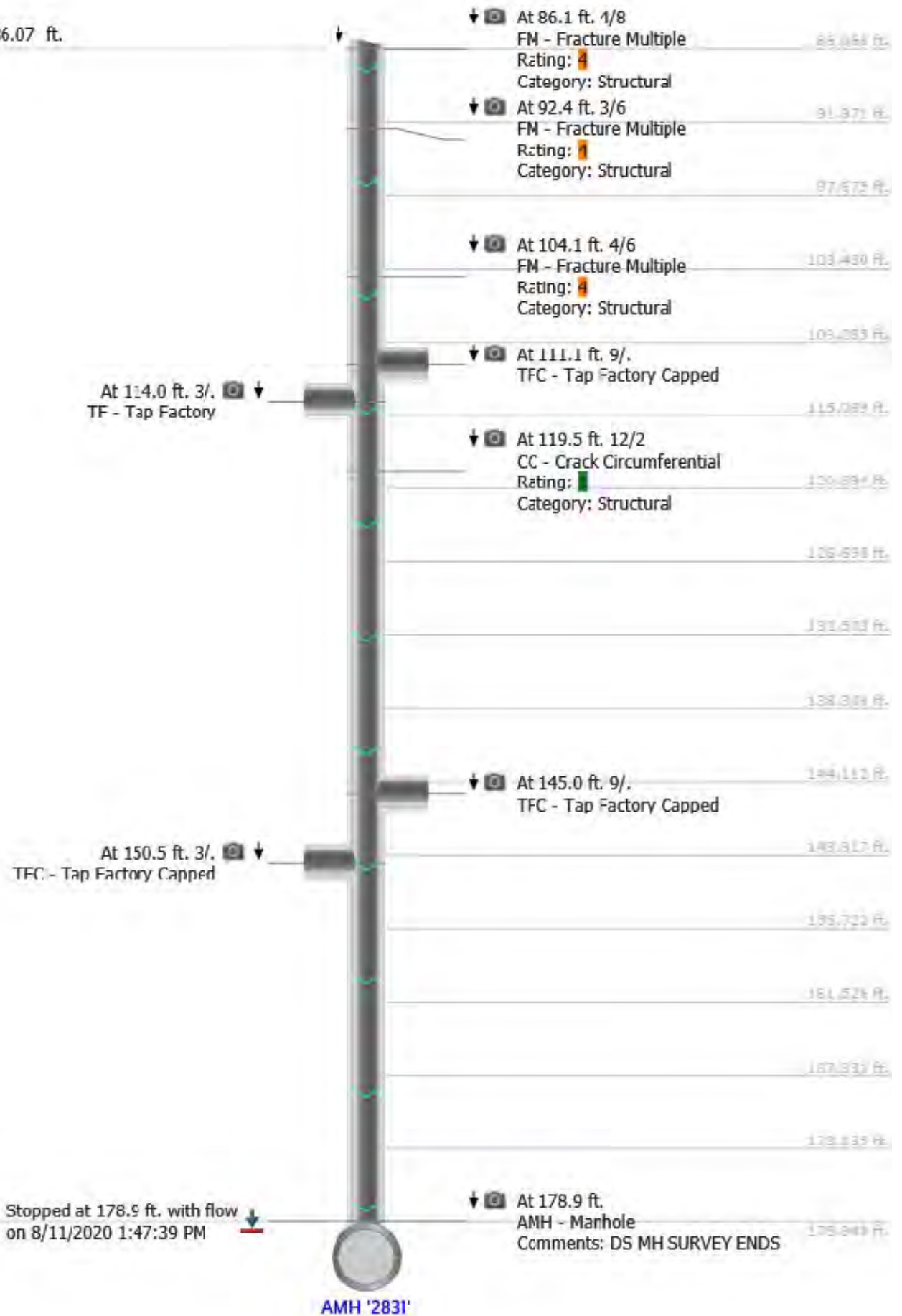
Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	2	14	4312	2.8	0	0	4	4100	4.0	18	3.0	4.4	
2	0	0				0	0							
3	0	0				0	0							
4	0	12				0	4							
5	0	0				0	0							

AMH '1518'



Mainline length: 178.940 ft.
 Surveyed length: 178.937 ft.

Omitted: 86.07 ft.



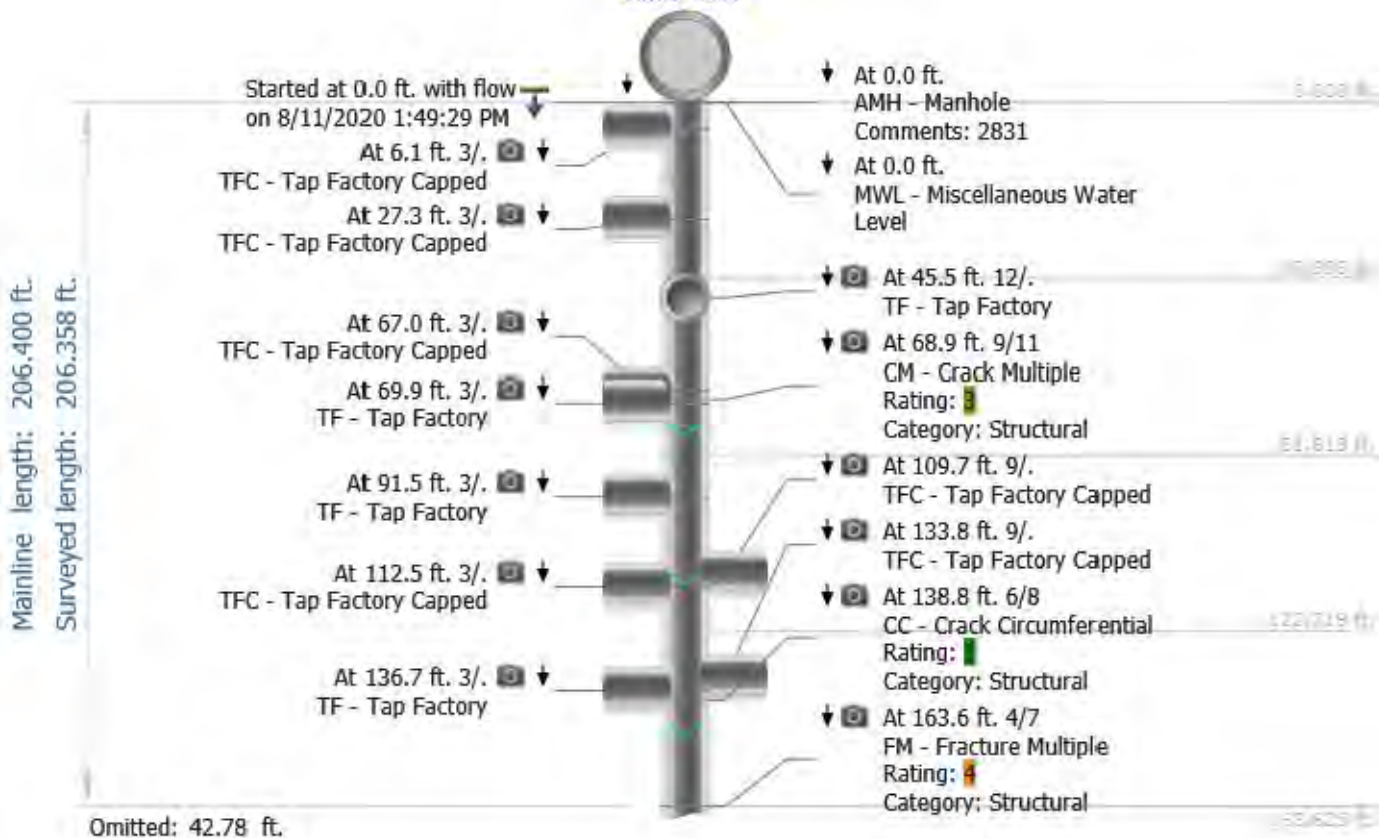
NWMCC INSPECTION REPORT

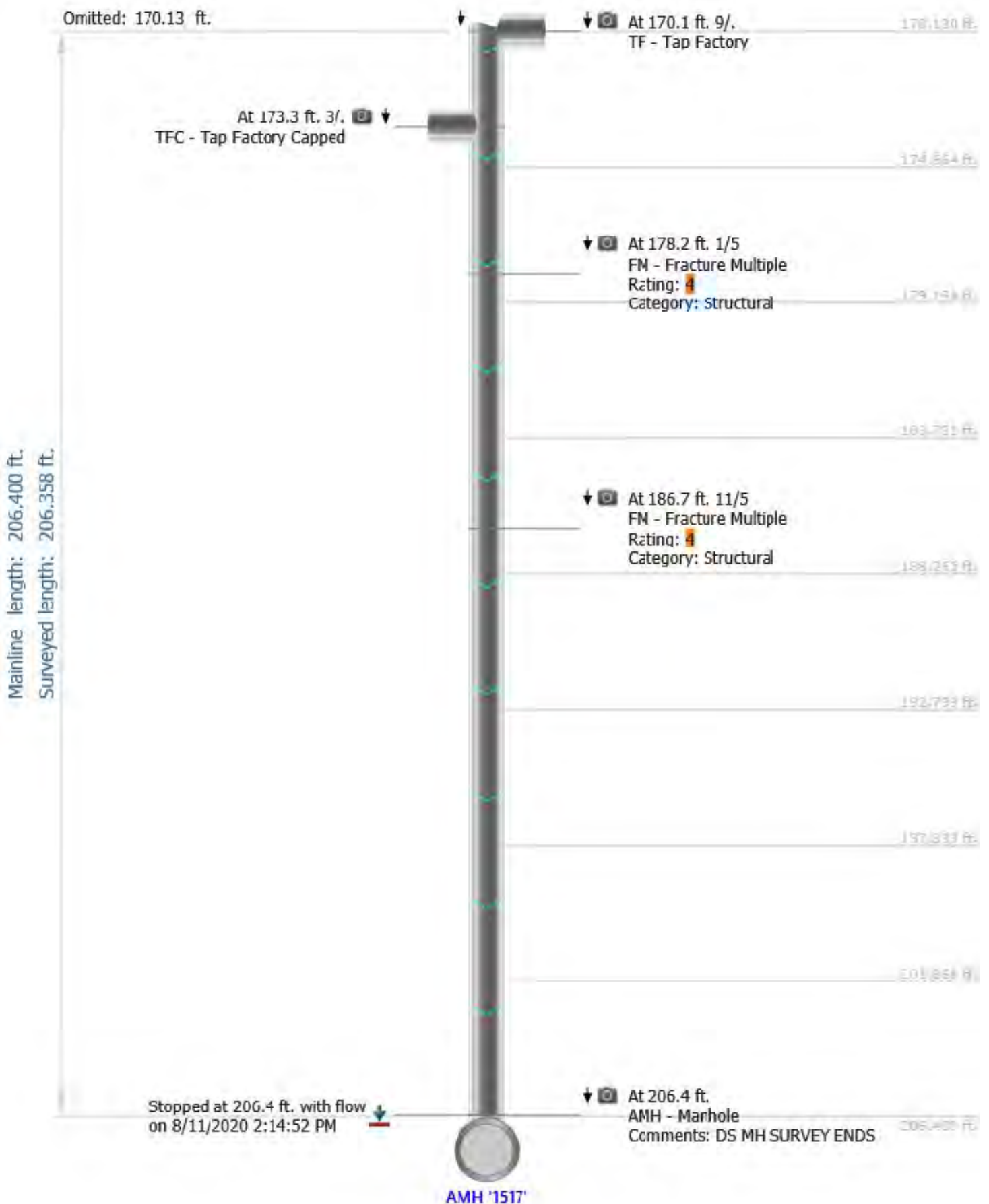
Start date/time: 20200811 13:49	Weather: Dry - No precipitation during survey	Surveyed by: alberto	Certificate number: u-0220-70308624	Pipe segment ref.: 2831-1517
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: TIG001-23
City: VERNON CT	Street: PARK ST ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 2831	Downstream MH No: 1517	Direction: D	Total length: 206.400 ft.	Length surveyed: 206.358 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	1	16	4331	3.2	0	0	0	0000	0.0	16	3.2	4.3	
2	0	0				0	0							
3	0	3				0	0							
4	0	12				0	0							
5	0	0				0	0							

AMH '2831'



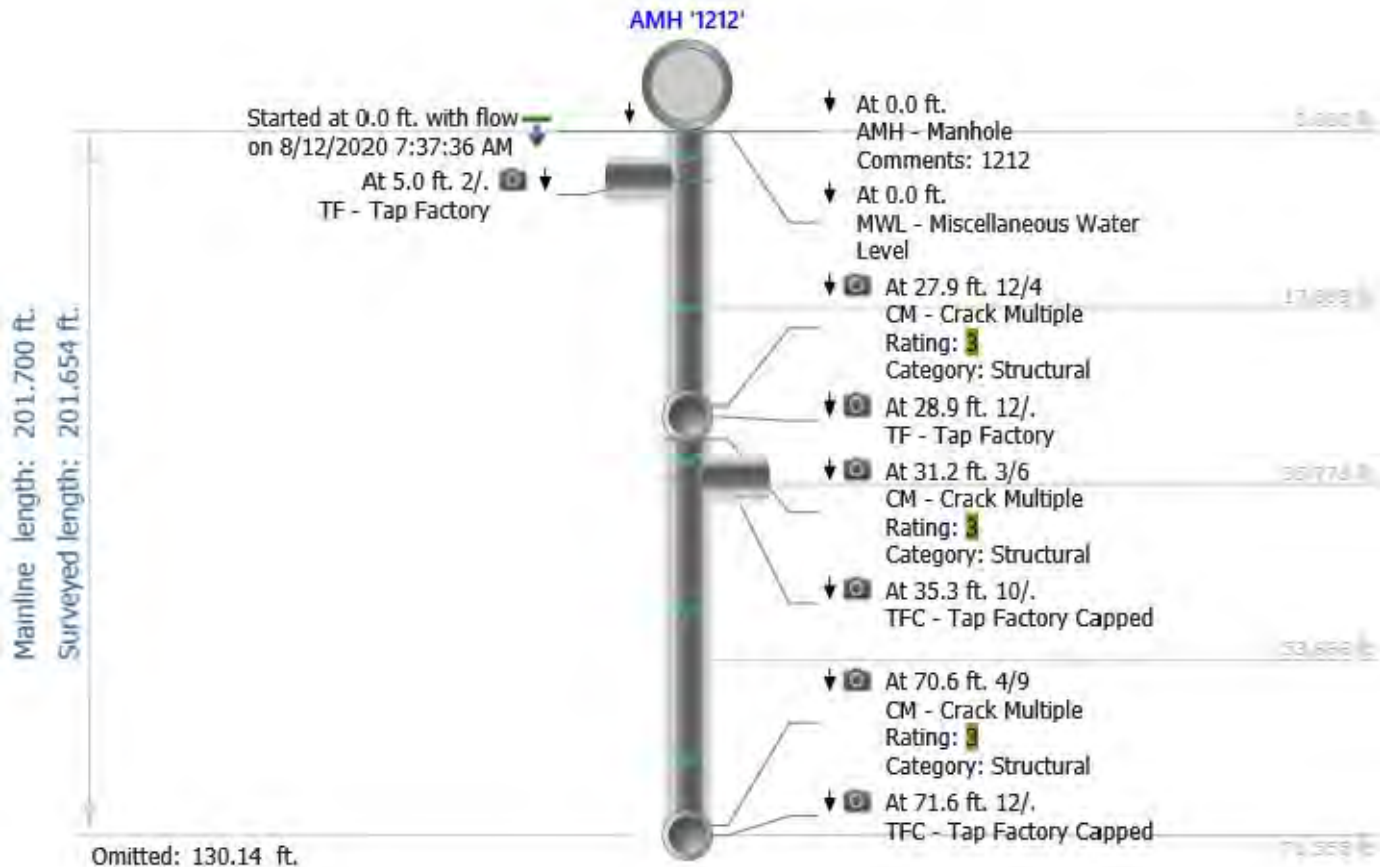


NWMCC INSPECTION REPORT

Start date/time: 20200812 07:37	Weather: Dry - No precipitation during survey	Surveyed by: alberto	Certificate number: u-0220-70308624	Pipe segment ref.: 1212-1211
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: TIG001-23
City: VERNON CT	Street: SCHOOL ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 1212	Downstream MH No: 1211	Direction: D	Total length: 201.700 ft.	Length surveyed: 201.654 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	27	3900	3.0	0	0	0	0000	0.0	27	3.0	3.9	
2	0	0				0	0							
3	0	27				0	0							
4	0	0				0	0							
5	0	0				0	0							

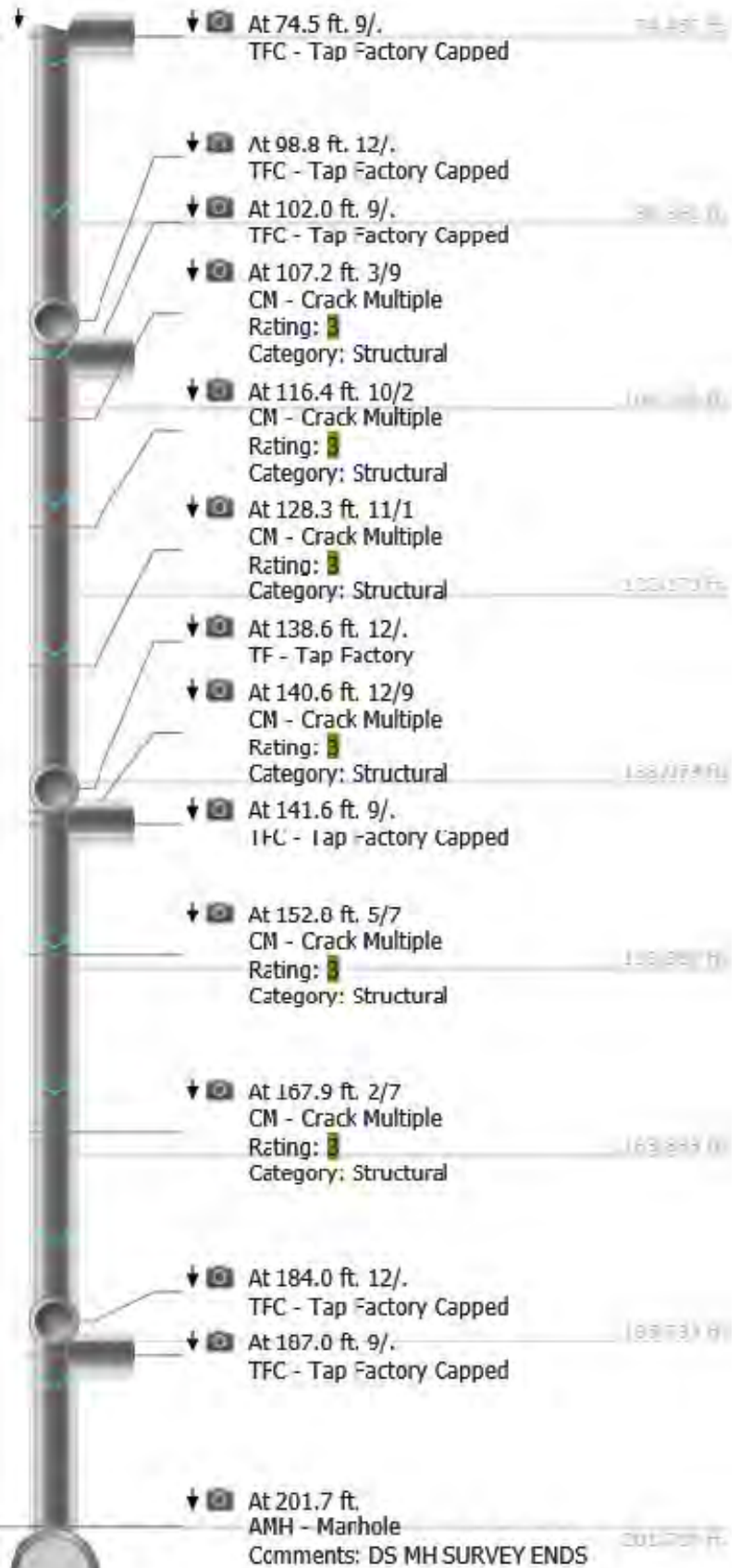


Mainline length: 201,700 ft.
 Surveyed length: 201,654 ft.

Omitted: 74.46 ft.

Stopped at 201.7 ft. with flow
 on 8/12/2020 8:03:11 AM

AMH '121'



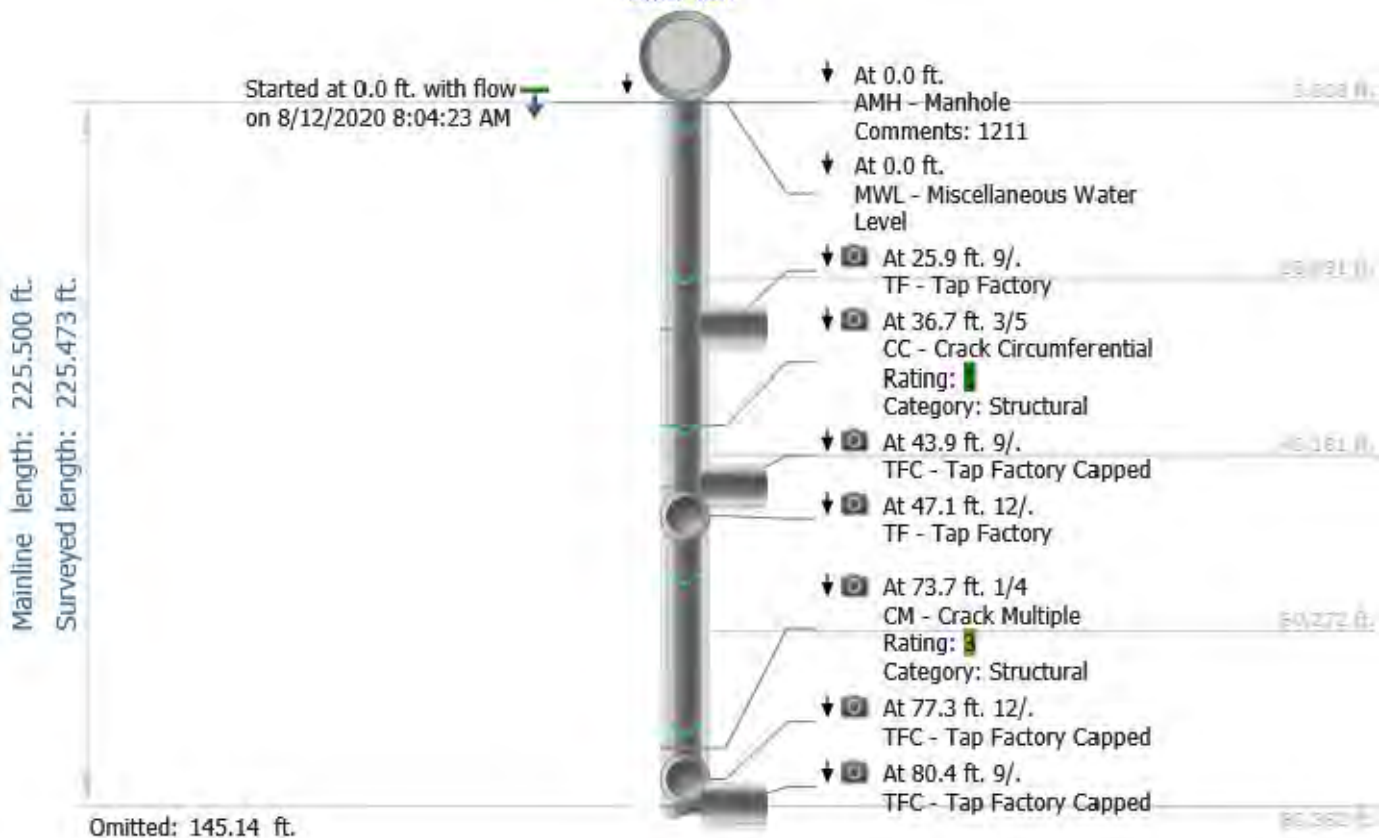
NWMCC INSPECTION REPORT

Start date/time: 20200812 08:04	Weather: Dry - No precipitation during survey	Surveyed by: alberto	Certificate number: u-0220-70308624	Pipe segment ref.: 1211-2832
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: TIG001-23
City: VERNON CT	Street: SCHOOL ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 1211	Downstream MH No: 2832	Direction: D	Total length: 225.500 ft.	Length surveyed: 225.473 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Vitrified Clay Pipe	LateralsCounter: Additional info:

Pipe Ratings

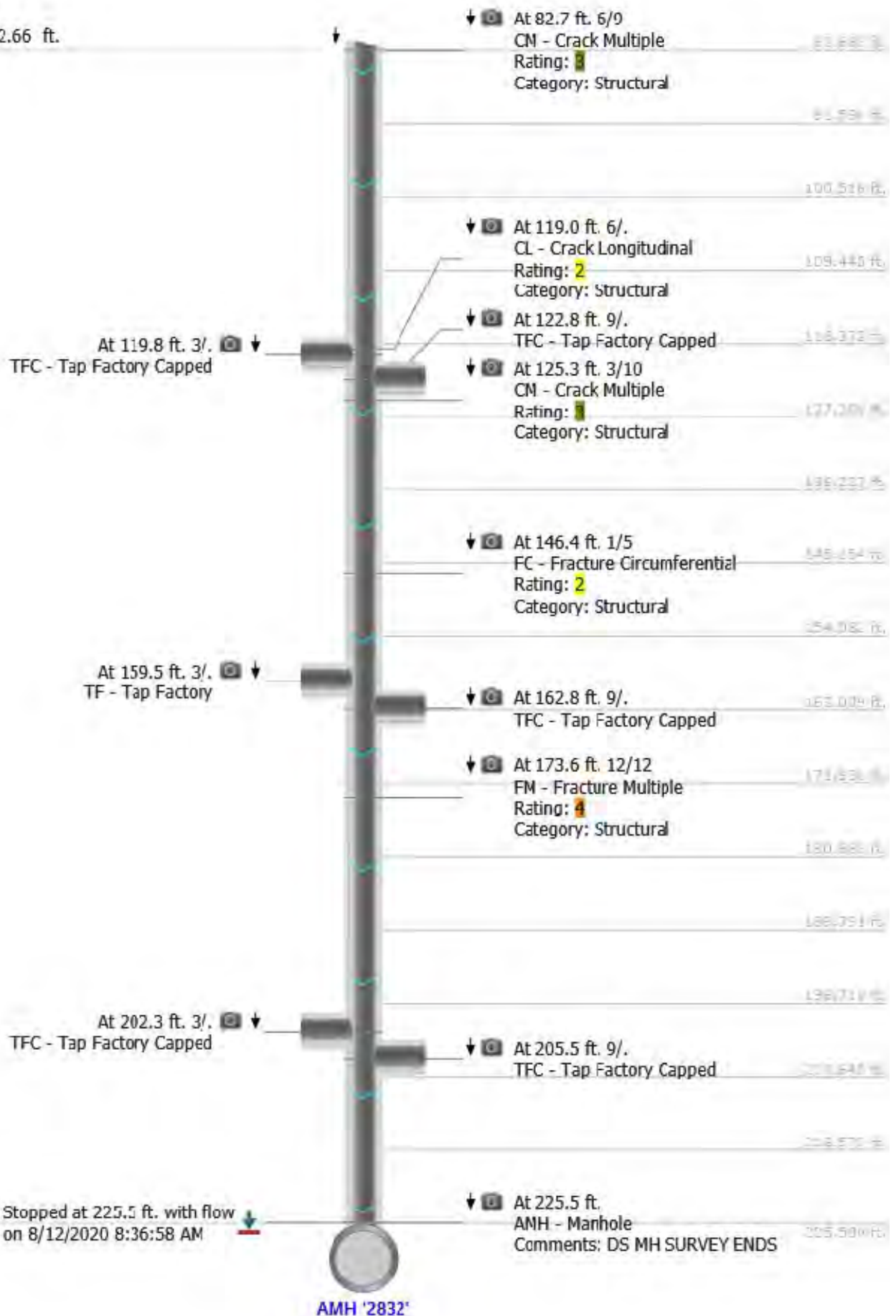
Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	1	18	4133	2.6	0	0	0	0000	0.0	18	2.6	4.1	
2	0	4				0	0							
3	0	9				0	0							
4	0	4				0	0							
5	0	0				0	0							

AMH '1211'



Mainline length: 225.500 ft.
 Surveyed length: 225.473 ft.

Omitted: 82.66 ft.



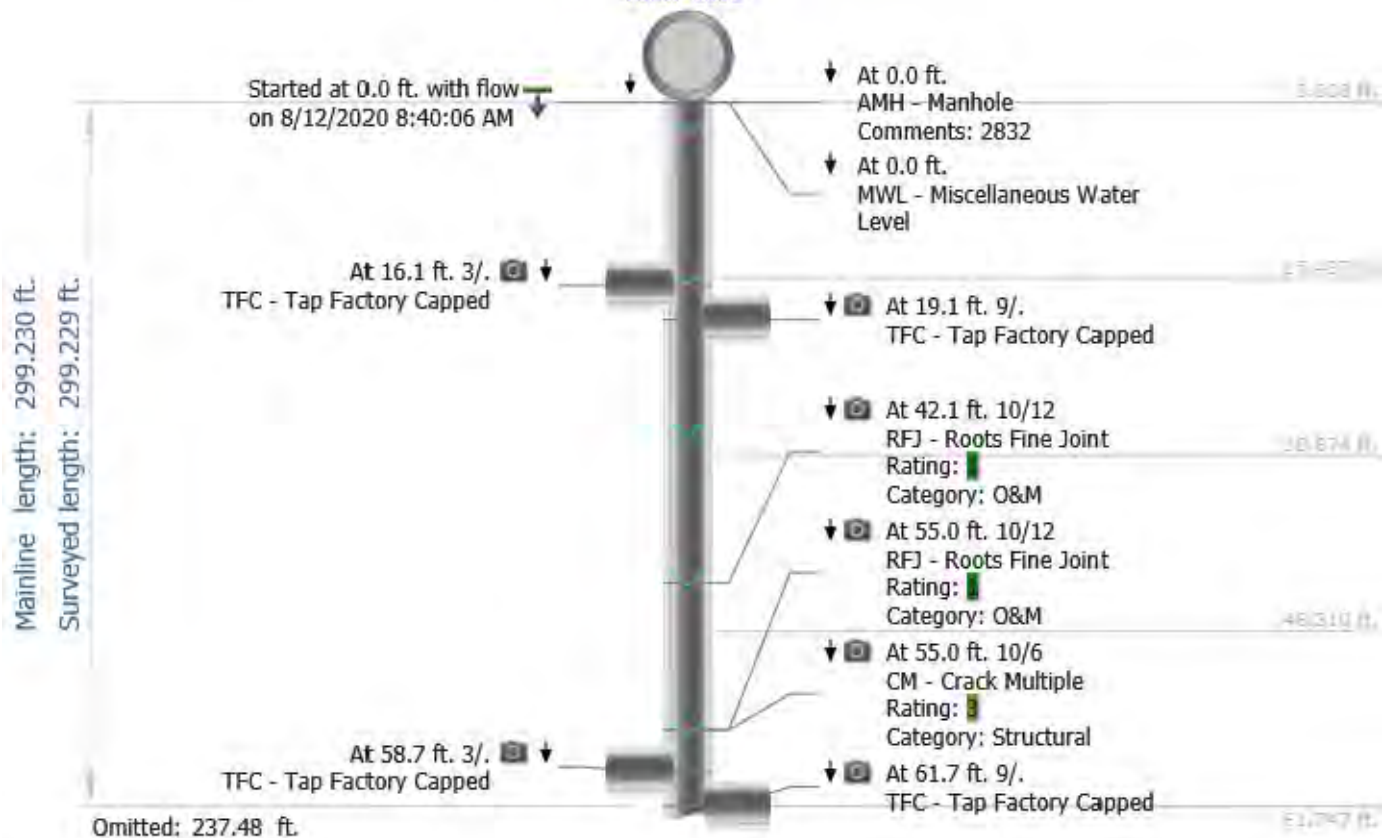
NWMCC INSPECTION REPORT

Start date/time: 20200812 08:40	Weather: Dry - No precipitation during survey	Surveyed by: alberto	Certificate number: u-0220-70308624	Pipe segment ref.: 2832-1518
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: TIG001-23
City: VERNON CT	Street: SCHOOL ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 2832	Downstream MH No: 1518	Direction: D	Total length: 299.230 ft.	Length surveyed: 299.229 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Vitrified Clay Pipe	LateralsCounter: Additional info:

Pipe Ratings

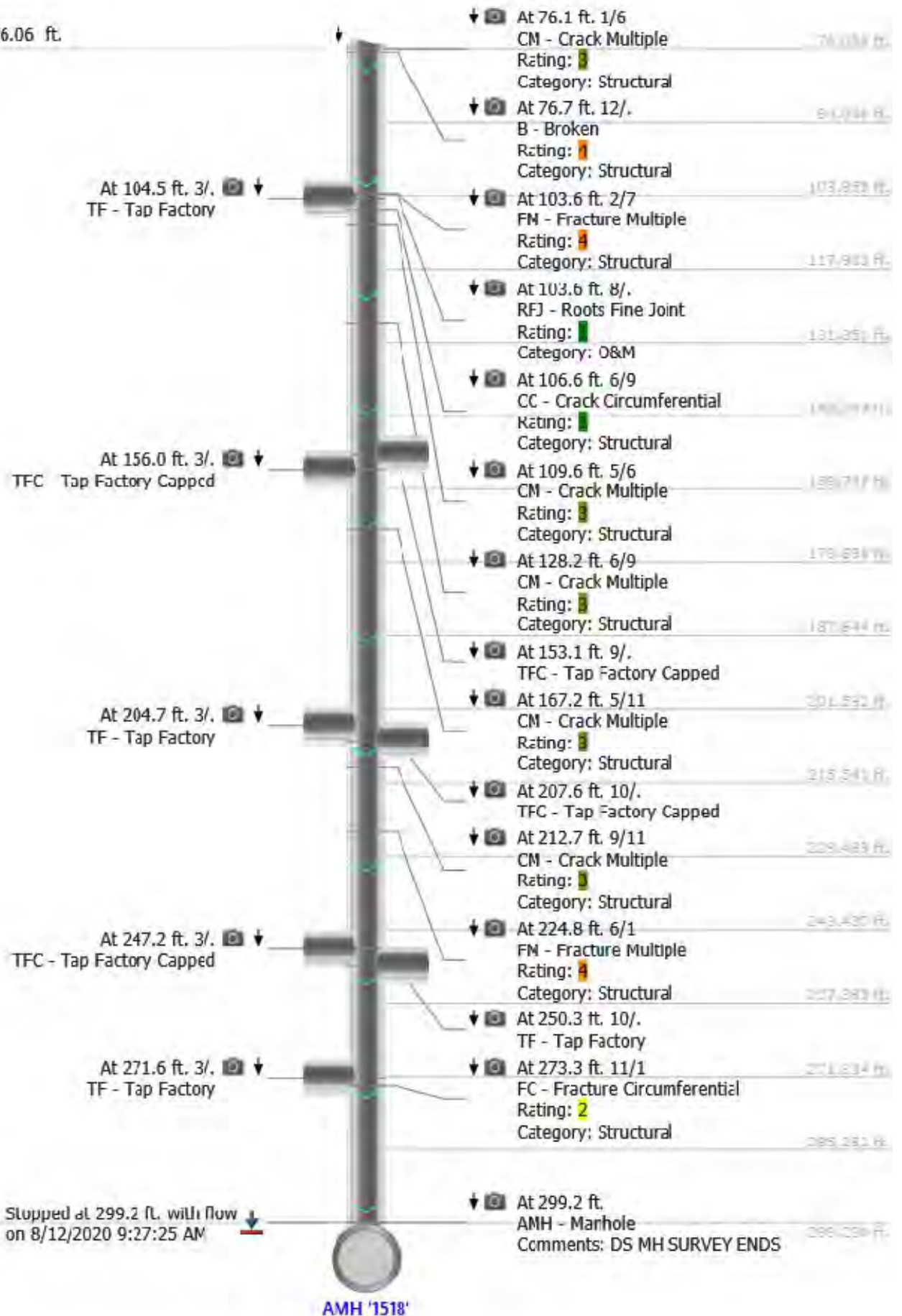
Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	1	33	4336	3.0	0	3	3	1300	1.0	36	2.6	4.3	
2	0	2				0	0							
3	0	18				0	0							
4	0	12				0	0							
5	0	0				0	0							

AMH '2832'



Mainline length: 299.230 ft.
 Surveyed length: 299.229 ft.

Omitted: 76.06 ft.



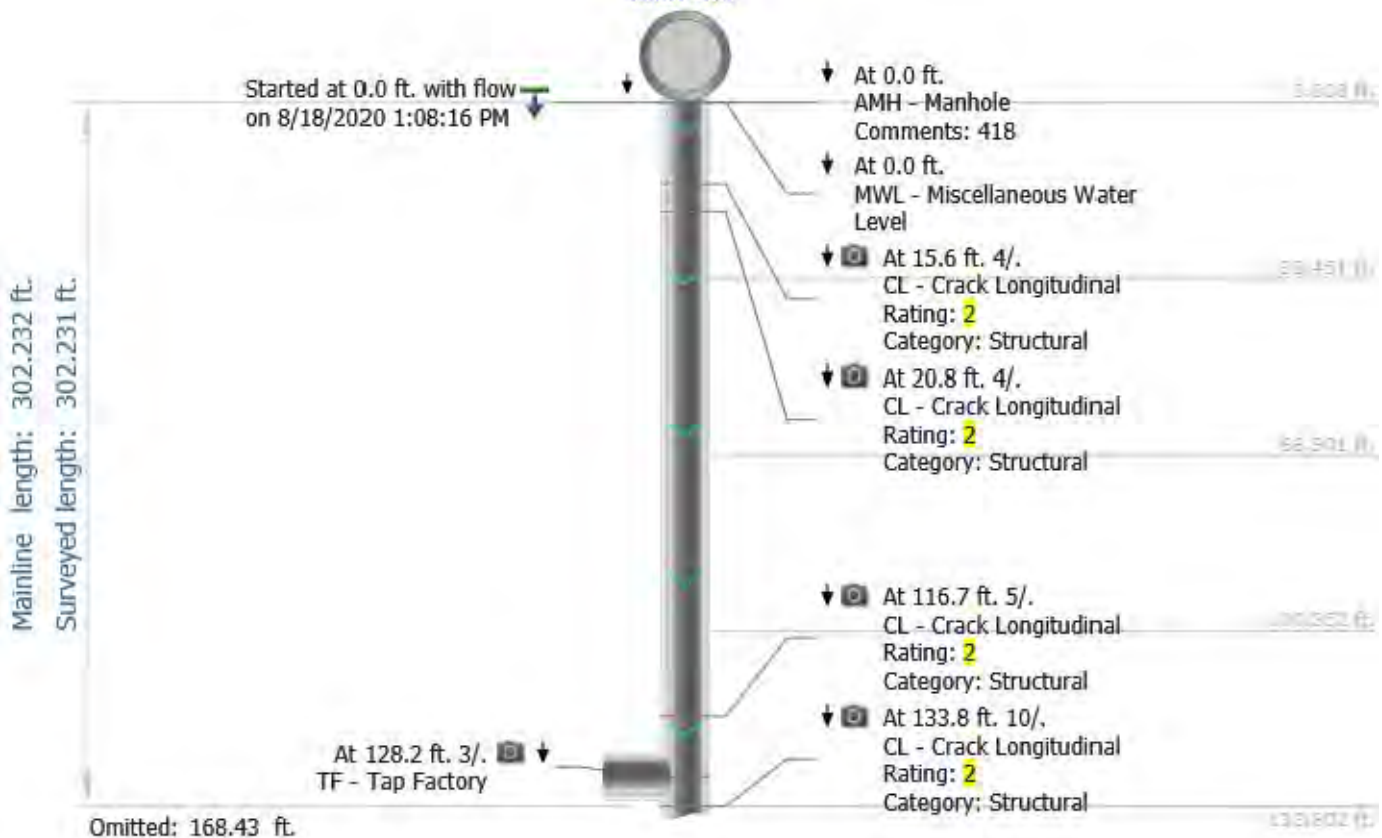
NWMCC INSPECTION REPORT

Start date/time: 20200818 13:08	Weather: Dry - No precipitation during survey	Surveyed by: J.HASHEM	Certificate number: 000-0000-0000	Pipe segment ref.: 418/2518
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: TIG001-23
City: VERNON CT	Street: LEIGON DR	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 418	Downstream MH No: 2518	Direction: D	Total length: 302.232 ft.	Length surveyed: 302.231 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	26	412A	2.2	0	2	13	4231	2.6	39	2.3	4.3	
2	0	22				0	0							
3	0	0				0	3							
4	0	4				0	8							
5	0	0				0	0							

AMH '418'



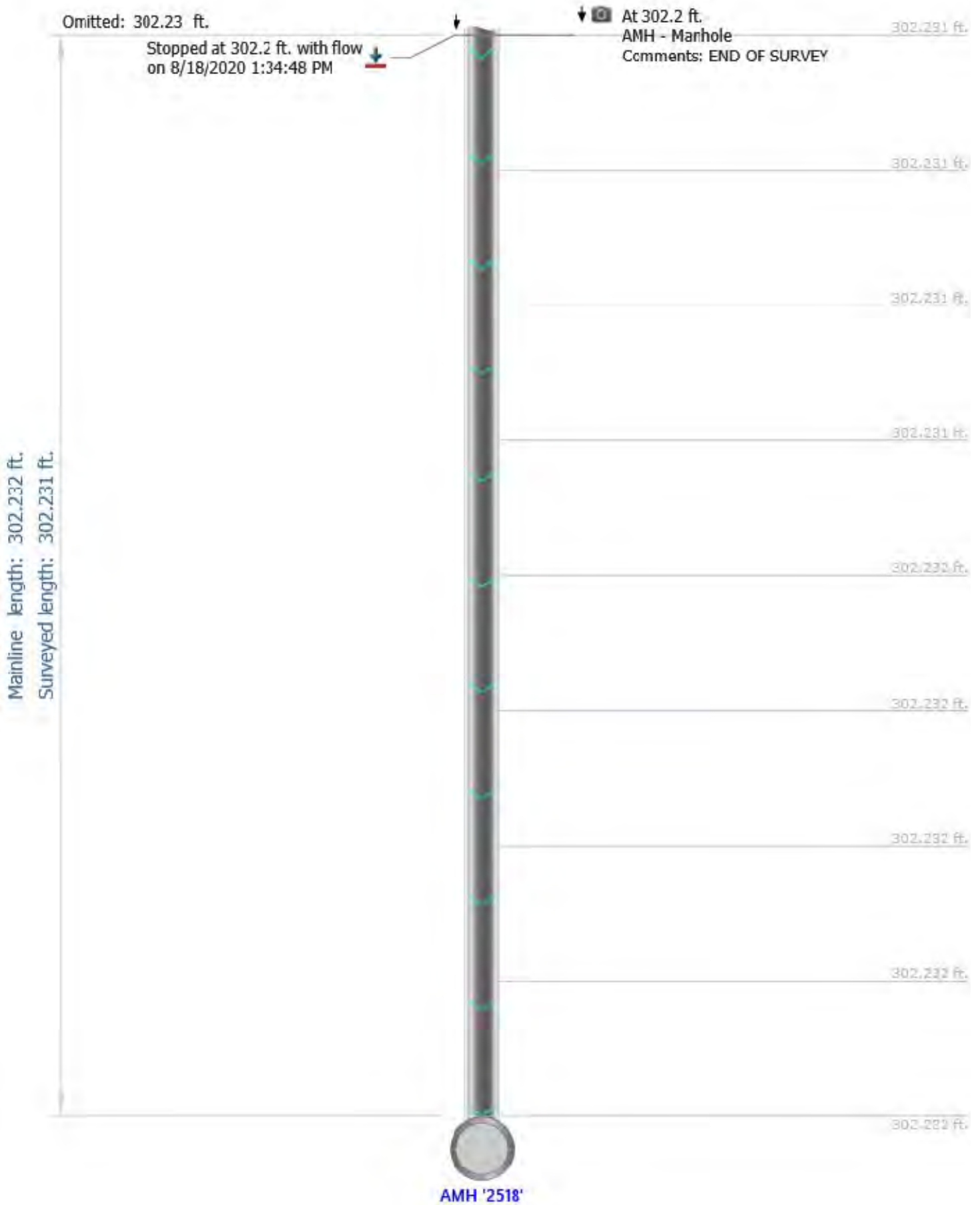
Mainline length: 302.232 ft.
 Surveyed length: 302.231 ft.

Omitted: 138.81 ft.

Omitted: 9.81 ft.

At 292.4 ft. 3/.
 TF - Tap Factory

At 138.8 ft. 12/12	FM - Fracture Multiple	138.808 ft.
Rating: 4	Category: Structural	
At 140.3 ft. 9/.	TF - Tap Factory	140.402 ft.
At 160.8 ft. 5/.	CL - Crack Longitudinal	158.808 ft.
Rating: 2	Category: Structural	
At 166.0 ft. 3/.	CL - Crack Longitudinal	167.808 ft.
Rating: 2	Category: Structural	
At 186.3 ft. 6/.	CL - Crack Longitudinal	177.211 ft.
Rating: 2	Category: Structural	
At 190.9 ft. 2/10	RFJ - Roots Fine Joint	186.812 ft.
Rating: 1	Category: O&M	
At 191.3 ft. 4/.	CL - Crack Longitudinal	196.412 ft.
Rating: 2	Category: Structural	
At 201.9 ft. 8/.	CL - Crack Longitudinal	206.014 ft.
Rating: 2	Category: Structural	
At 208.1 ft. 2/5	RML - Roots Medium Lateral	215.218 ft.
Rating: 3	Category: O&M	
At 218.8 ft. 5/.	CL - Crack Longitudinal	224.817 ft.
Rating: 2	Category: Structural	
At 233.8 ft. 8/.	CL - Crack Longitudinal	244.418 ft.
Rating: 2	Category: Structural	
At 233.8 ft. 8/9	RFJ - Roots Fine Joint	254.020 ft.
Rating: 1	Category: O&M	
At 250.2 ft. 9/.	TF - Tap Factory	263.621 ft.
At 250.2 ft. 4/10	RBL - Roots Ball Lateral	273.223 ft.
Rating: 4	Category: O&M	
At 255.0 ft. 1/9	RBJ - Roots Ball Joint	283.823 ft.
Rating: 4	Category: O&M	



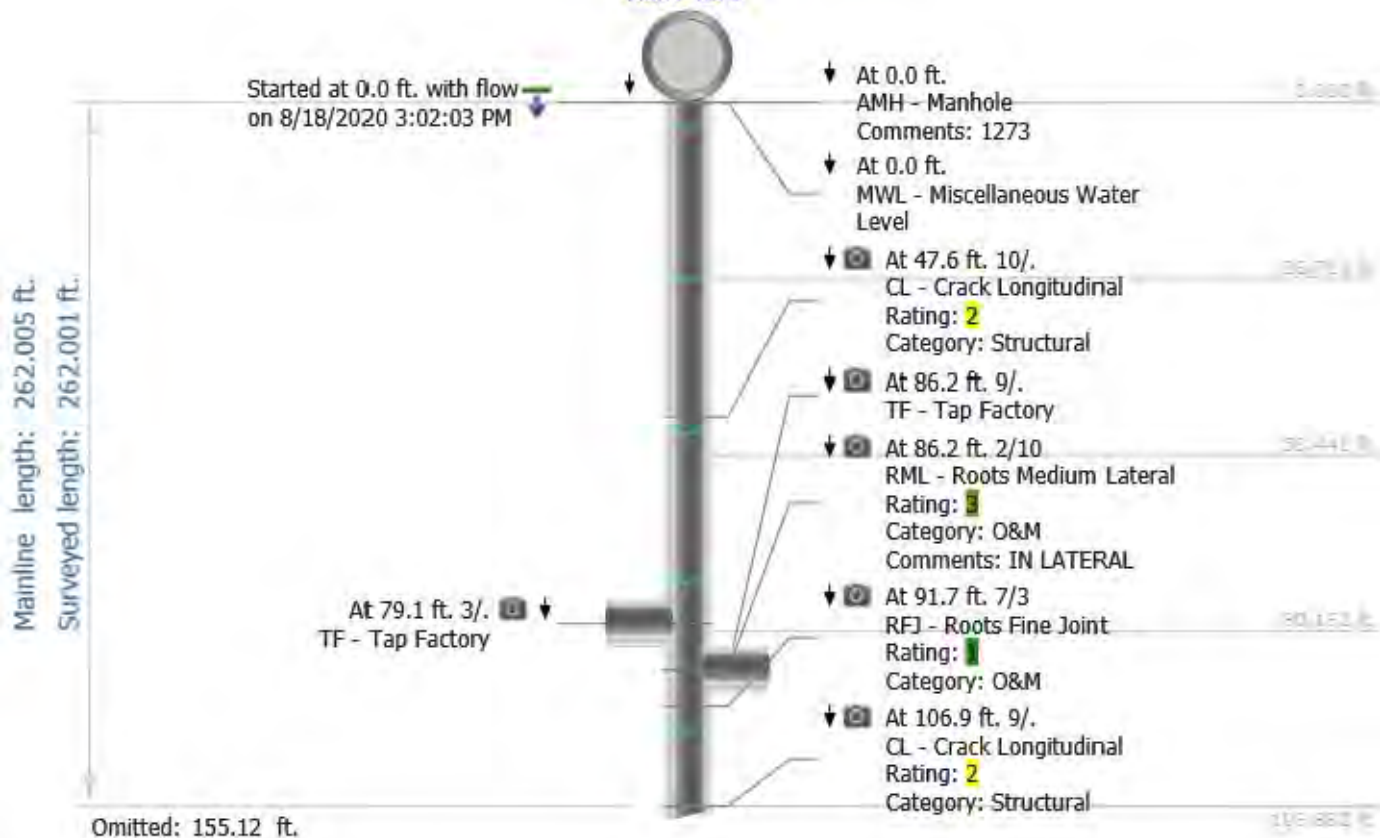
NWMCC INSPECTION REPORT

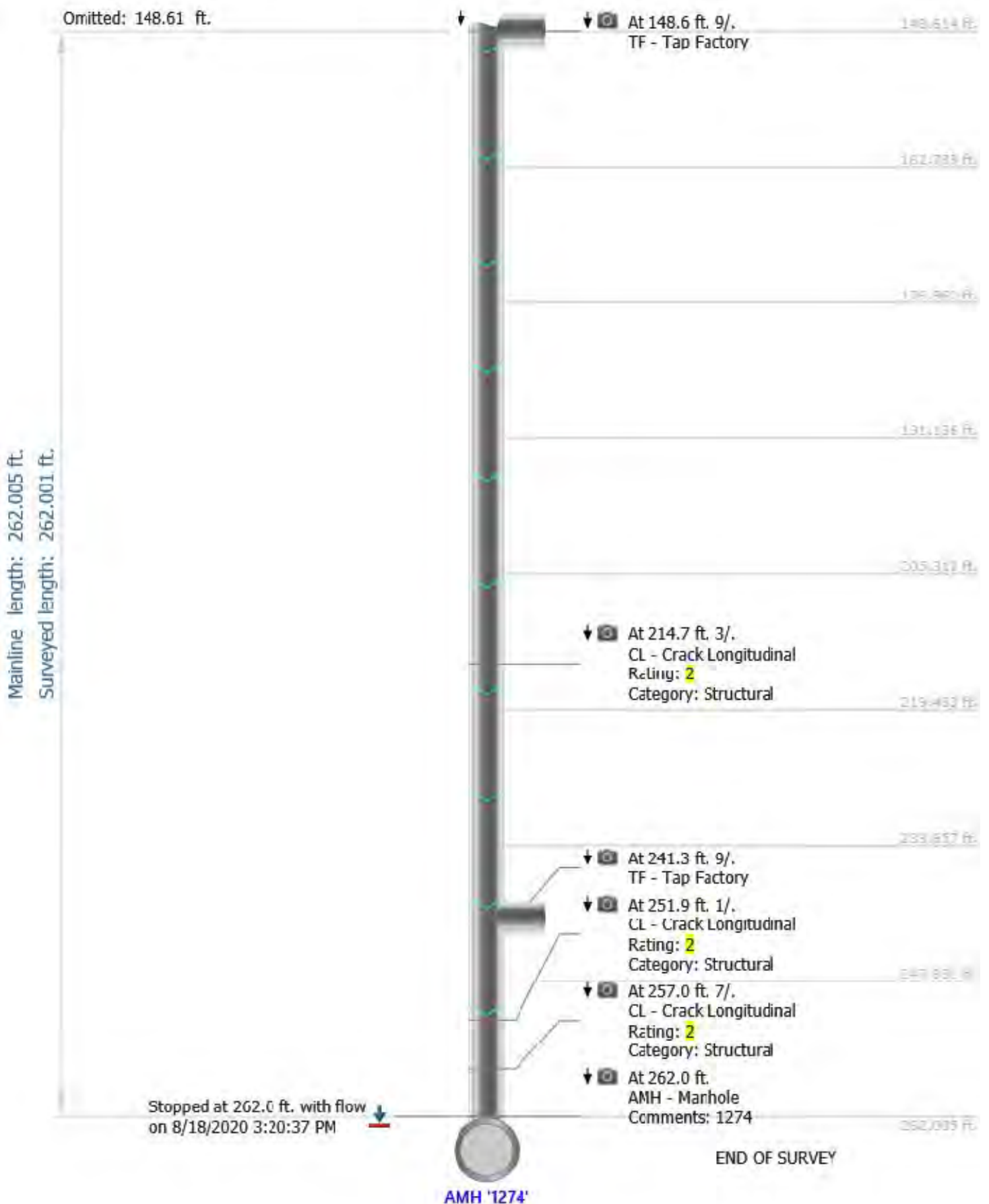
Start date/time: 20200818 15:02	Weather: Dry - No precipitation during survey	Surveyed by: J.HASHEM	Certificate number: 000-0000-0000	Pipe segment ref.: 1273/1274
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: TIG001-23
City: VERNON CT	Street: MARY LN	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 1273	Downstream MH No: 1274	Direction: D	Total length: 262.005 ft.	Length surveyed: 262.001 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	10	2500	2.0	0	1	4	3111	2.0	14	2.0	3.1	
2	0	10				0	0							
3	0	0				0	3							
4	0	0				0	0							
5	0	0				0	0							

AMH '1273'





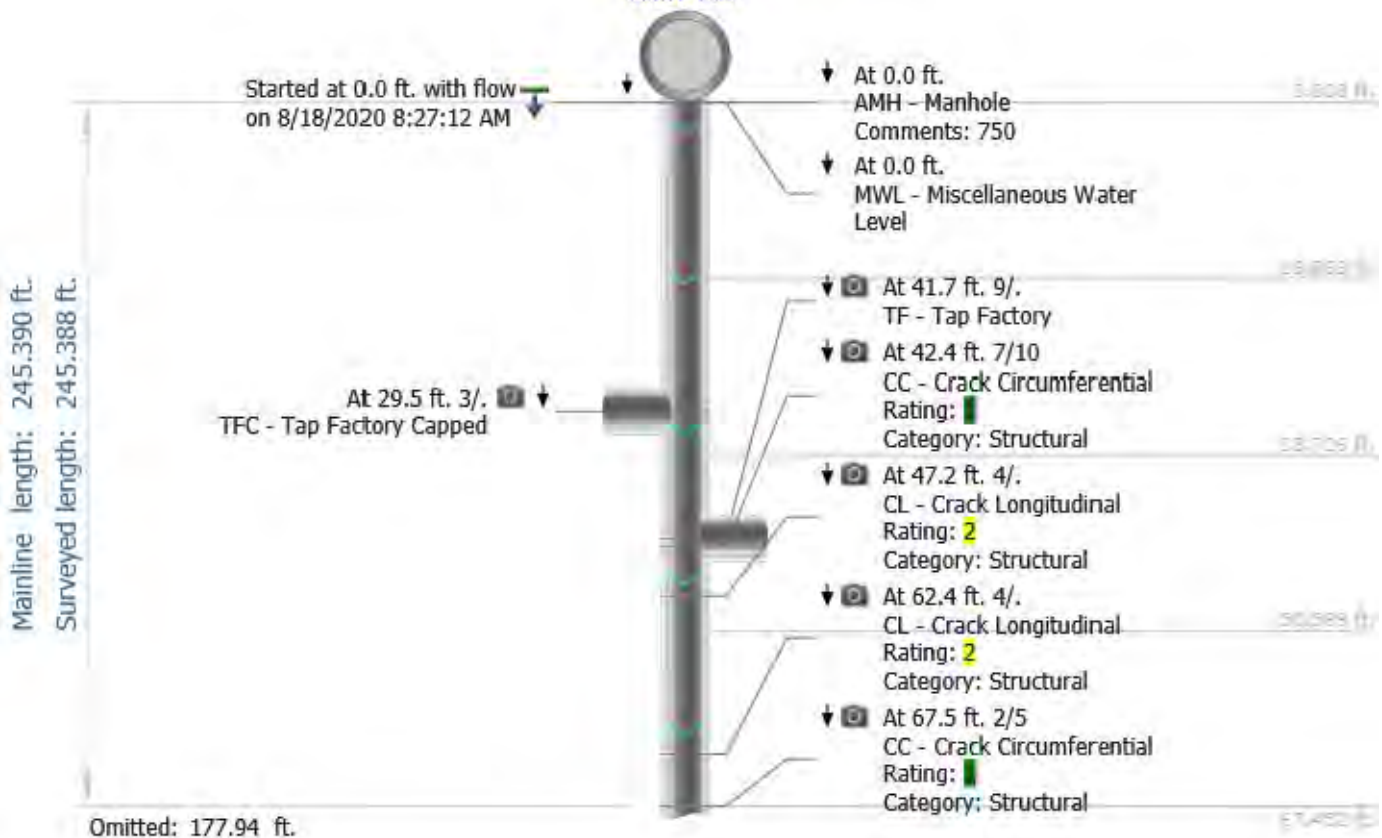
NWMCC INSPECTION REPORT

Start date/time: 20200818 08:27	Weather: Dry - No precipitation during survey	Surveyed by: J.HASHEM	Certificate number: 000-0000-0000	Pipe segment ref.: 750/1627
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: TIG001-23
City: VERNON CT	Street: MARY LN	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 750	Downstream MH No: 1627	Direction: D	Total length: 245.390 ft.	Length surveyed: 245.388 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Vitrified Clay Pipe	LateralsCounter: Additional info:

Pipe Ratings

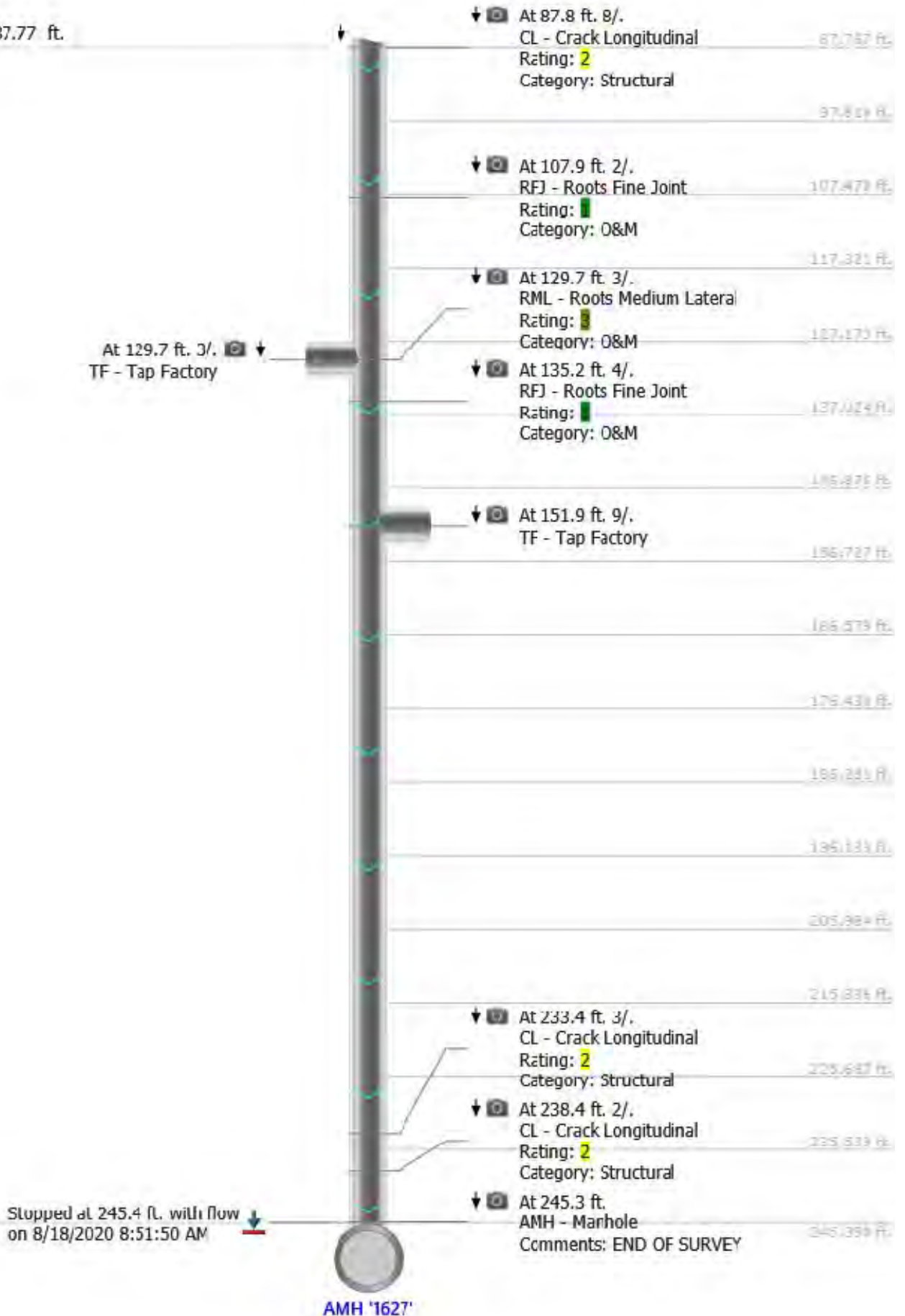
Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	2	12	2512	1.7	0	2	5	3112	1.7	17	1.7	3.1	
2	0	10				0	0							
3	0	0				0	3							
4	0	0				0	0							
5	0	0				0	0							

AMH '750'



Mainline length: 245.390 ft.
 Surveyed length: 245.388 ft.

Omitted: 87.77 ft.

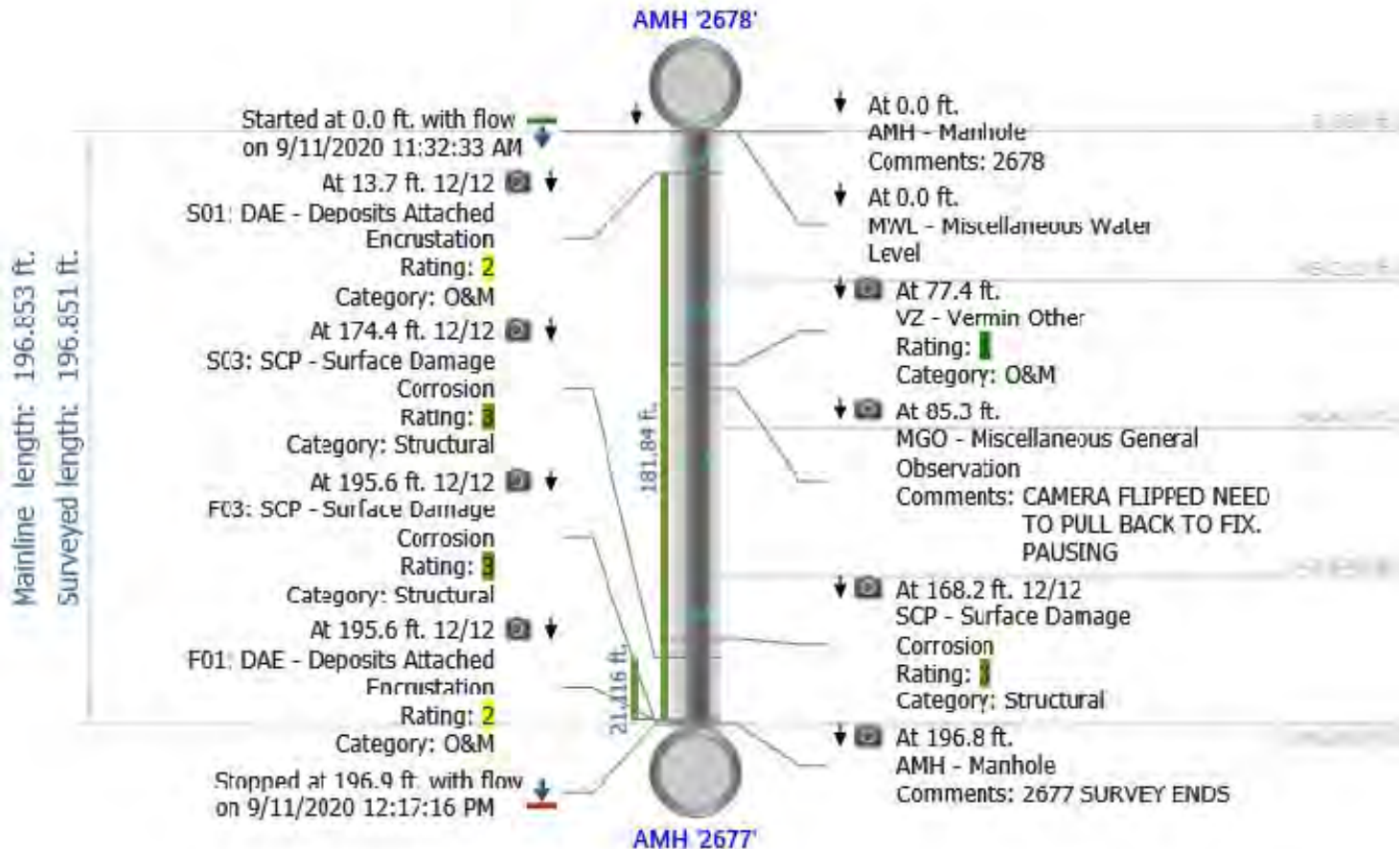


NWMCC INSPECTION REPORT

Start date/time: 20200911 11:32	Weather: Dry - No precipitation during survey	Surveyed by: K.Lang	Certificate number: UO-200-70308438	Pipe segment ref.: 2678-2677
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: TIG001-23
City: VERNON CT	Street: REGAN RD	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 2678	Downstream MH No: 2677	Direction: D	Total length: 196.853 ft.	Length surveyed: 196.851 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 12 in.	Material: Reinforced Concrete Pipe	LateralsCounter: Additional info: V10 COMPUTER LAG PROBLEMS

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	15	3500	3.0	0	1	73	2F11	2.0	88	2.1	3.5	
2	0	0				0	72							
3	0	15				0	0							
4	0	0				0	0							
5	0	0				0	0							

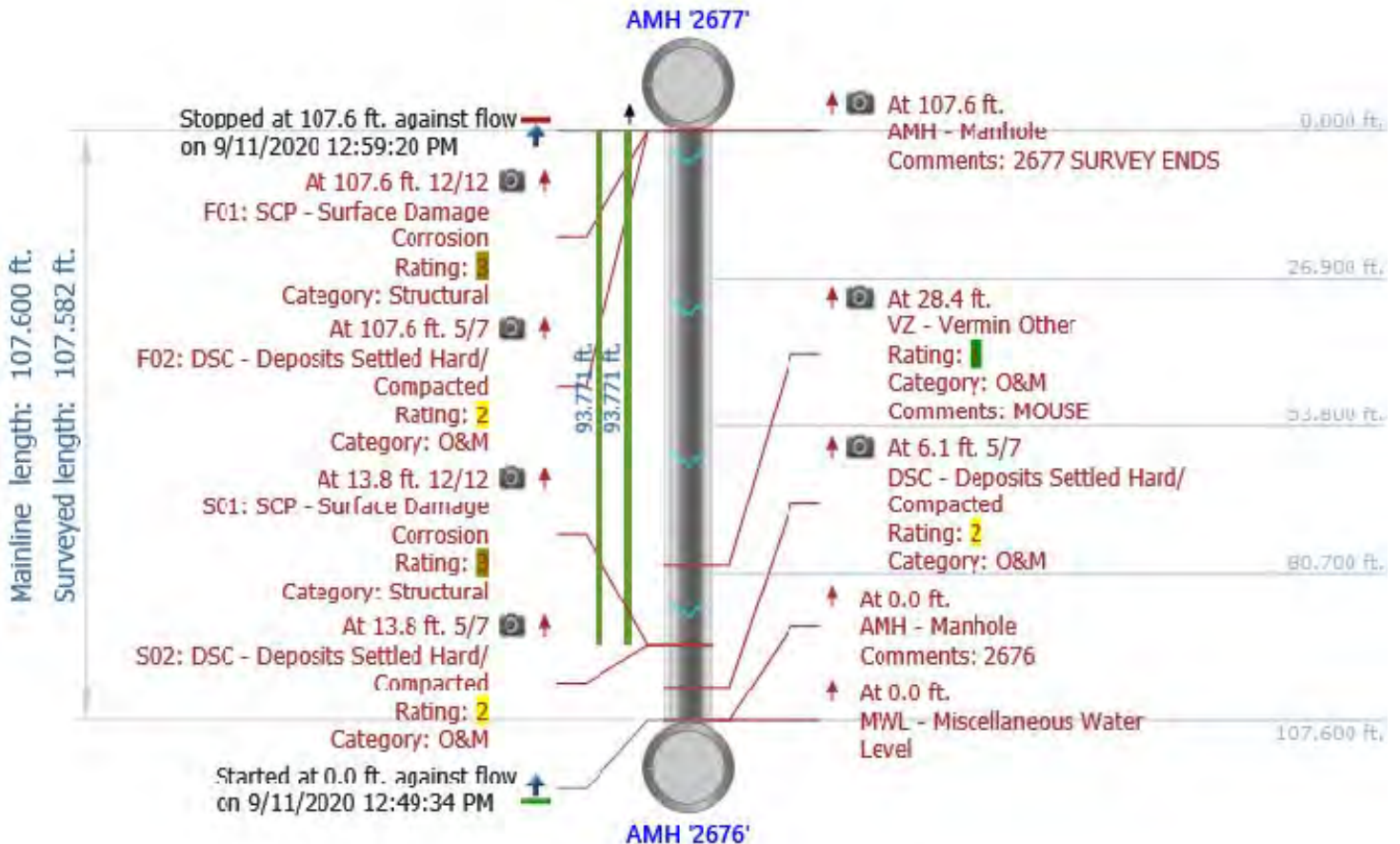


NWMCC INSPECTION REPORT

Start date/time: 20200911 12:49	Weather: Dry - No precipitation during survey	Surveyed by: K.Lang	Certificate number: UO-200-70308438	Pipe segment ref.: 2677-2676
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: TIG001-23
City: VERNON CT	Street: REGAN RD	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 2677	Downstream MH No: 2676	Direction: U	Total length: 107.600 ft.	Length surveyed: 107.582 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 12 in.	Material: Reinforced Concrete Pipe	LateralsCounter: Additional info: V10 REVERSE SURVEY

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	57	3B00	3.0	0	1	41	2C11	2.0	98	2.4	4.0	
2	0	0				0	40							
3	0	57				0	0							
4	0	0				0	0							
5	0	0				0	0							



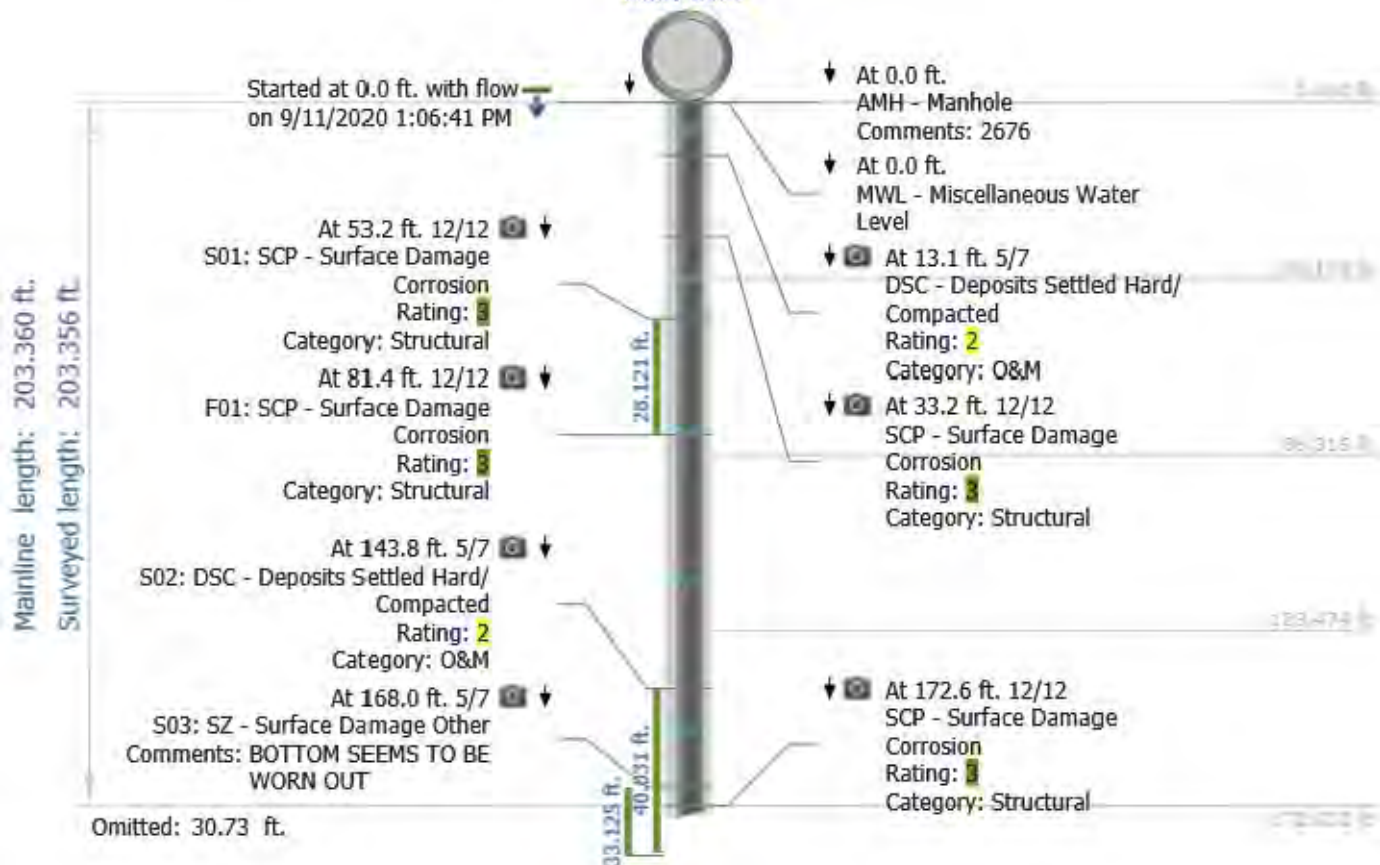
NWMCC INSPECTION REPORT

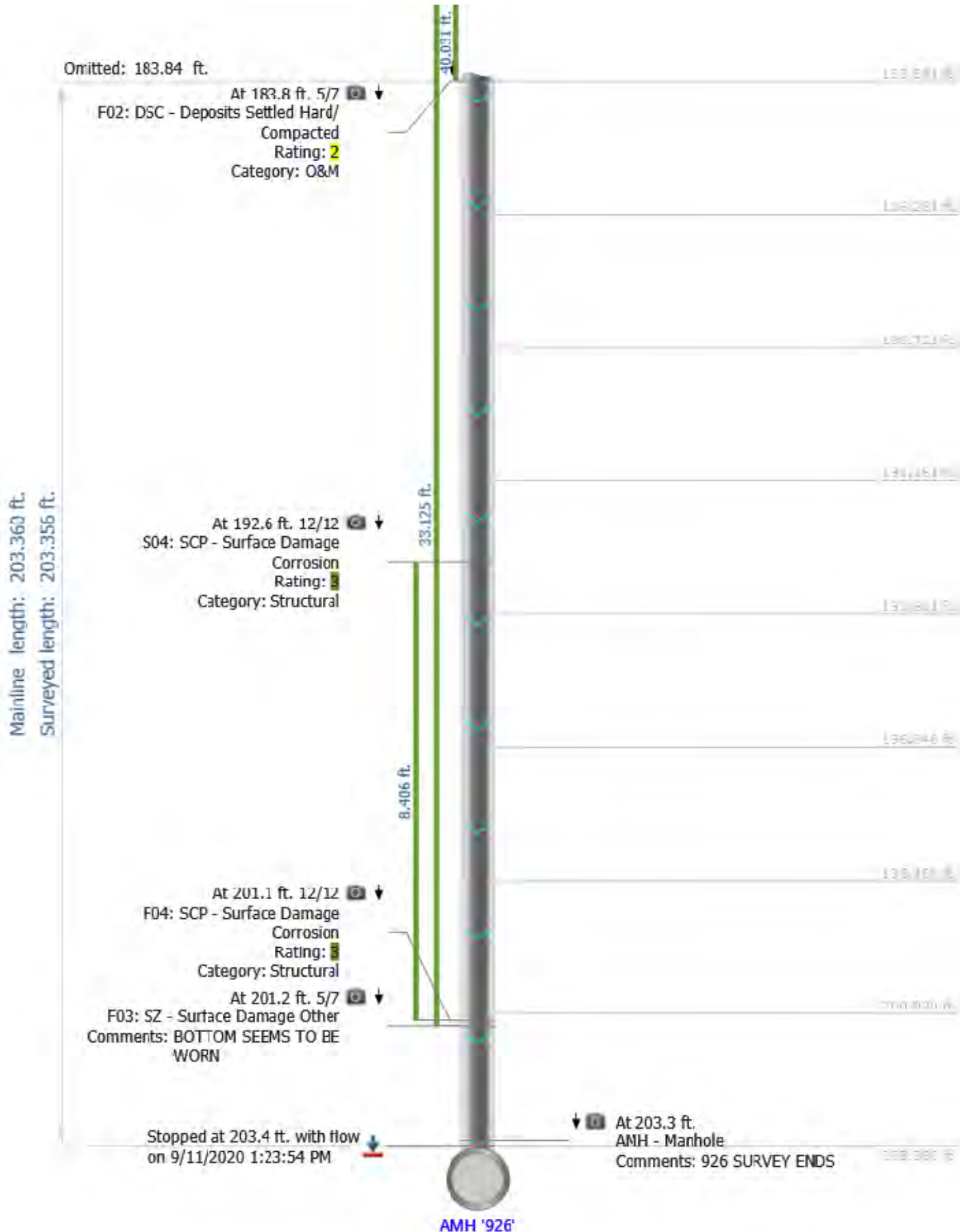
Start date/time: 20200911 13:06	Weather: Dry - No precipitation during survey	Surveyed by: K.Lang	Certificate number: UO-200-70308438	Pipe segment ref.: 2676-926
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: TIG001-23
City: VERNON CT	Street: CENTER RD	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 2676	Downstream MH No: 926	Direction: D	Total length: 203.360 ft.	Length surveyed: 203.356 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 12 in.	Material: Asbestos Cement	LateralsCounter: Additional info: V10

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	30	3A00	3.0	0	0	18	2900	2.0	48	2.5	4.0	
2	0	0				0	18							
3	0	30				0	0							
4	0	0				0	0							
5	0	0				0	0							

AMH '2676'



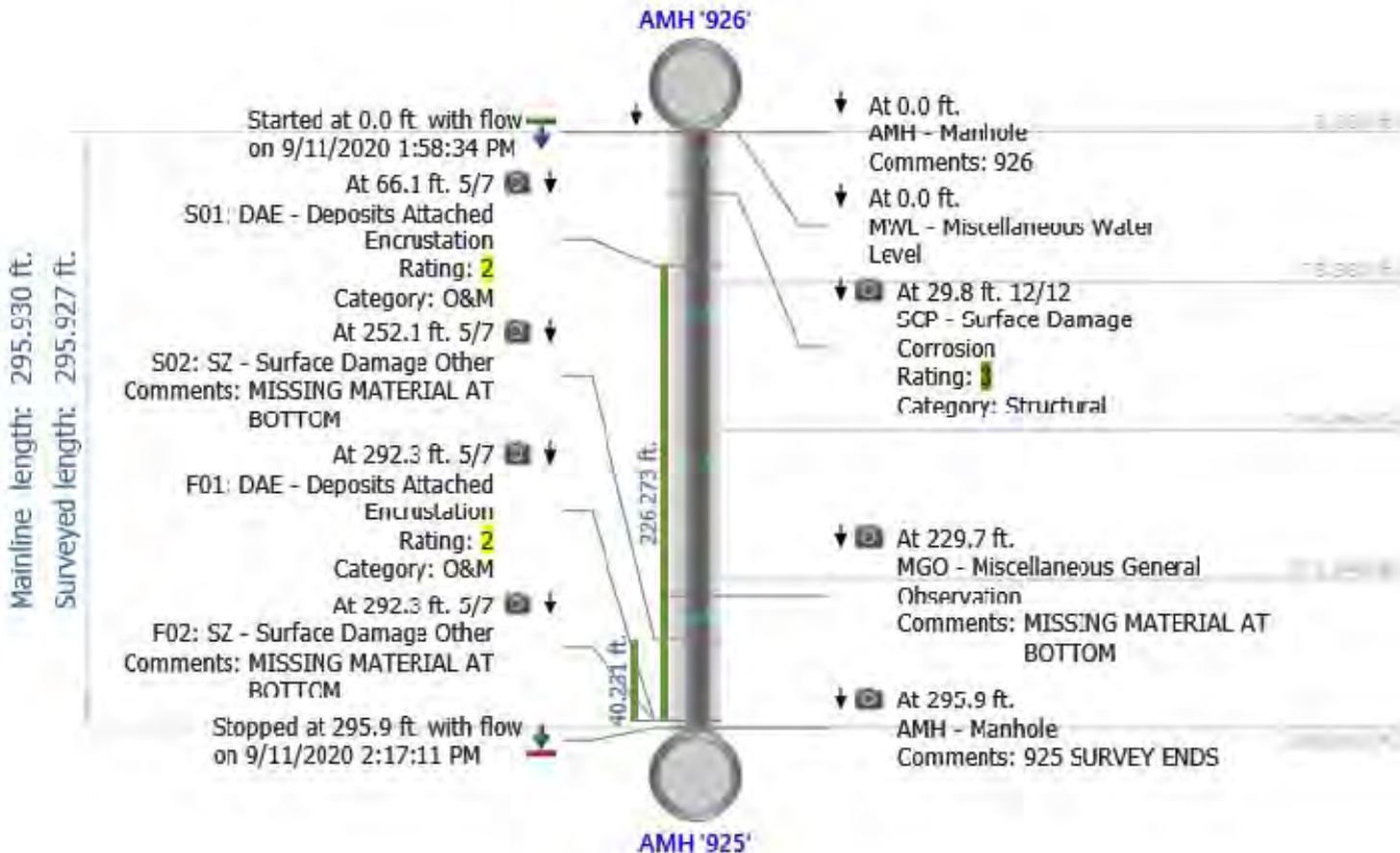


NWMCC INSPECTION REPORT

Start date/time: 20200911 13:58	Weather: Dry - No precipitation during survey	Surveyed by: K.Lang	Certificate number: UO-200-70308438	Pipe segment ref.: 926-925
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: TIG001-23
City: VERNON CT	Street: CENTER RD	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 926	Downstream MH No: 925	Direction: D	Total length: 295.930 ft.	Length surveyed: 295.927 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 12 in.	Material: Asbestos Cement	LateralsCounter: Additional info: V10

Pipe Ratings

Grade	Defects	Segment Grade	Structural:			Defects	Segment Grade	O&M:			Pipe Rating	Overall:		
			Pipe Rating	Quick Rating	Pipe Rating Index			Pipe Rating	Quick Rating	Pipe Rating Index		Pipe Rating	Pipe Rating Index	LoF
1	0	0	3	3100	3.0	0	0	90	2H00	2.0	93	2.0	3.1	
2	0	0				0	90							
3	0	3				0	0							
4	0	0				0	0							
5	0	0				0	0							



NWMCC INSPECTION REPORT

Start date/time: 20200911 14:18	Weather: Dry - No precipitation during survey	Surveyed by: K.Lang	Certificate number: UO-200-70308438	Pipe segment ref.: 925-1262
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: TIG001-23
City: VERNON CT	Street: CENTER RD	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 925	Downstream MH No: 1262	Direction: D	Total length: 294.630 ft.	Length surveyed: 294.626 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 12 in.	Material: Asbestos Cement	LateralsCounter: Additional info: V10

Pipe Ratings

Grade	Defects	Segment Grade	Structural:			Defects	Segment Grade	O&M:			Pipe Rating	Overall:		
			Pipe Rating	Quick Rating	Pipe Rating Index			Pipe Rating	Quick Rating	Pipe Rating Index		Pipe Rating	Pipe Rating Index	LoF
1	0	0	3	3100	3.0	0	0	2	2100	2.0	5	2.5	3.1	
2	0	0				0	2							
3	0	3				0	0							
4	0	0				0	0							
5	0	0				0	0							



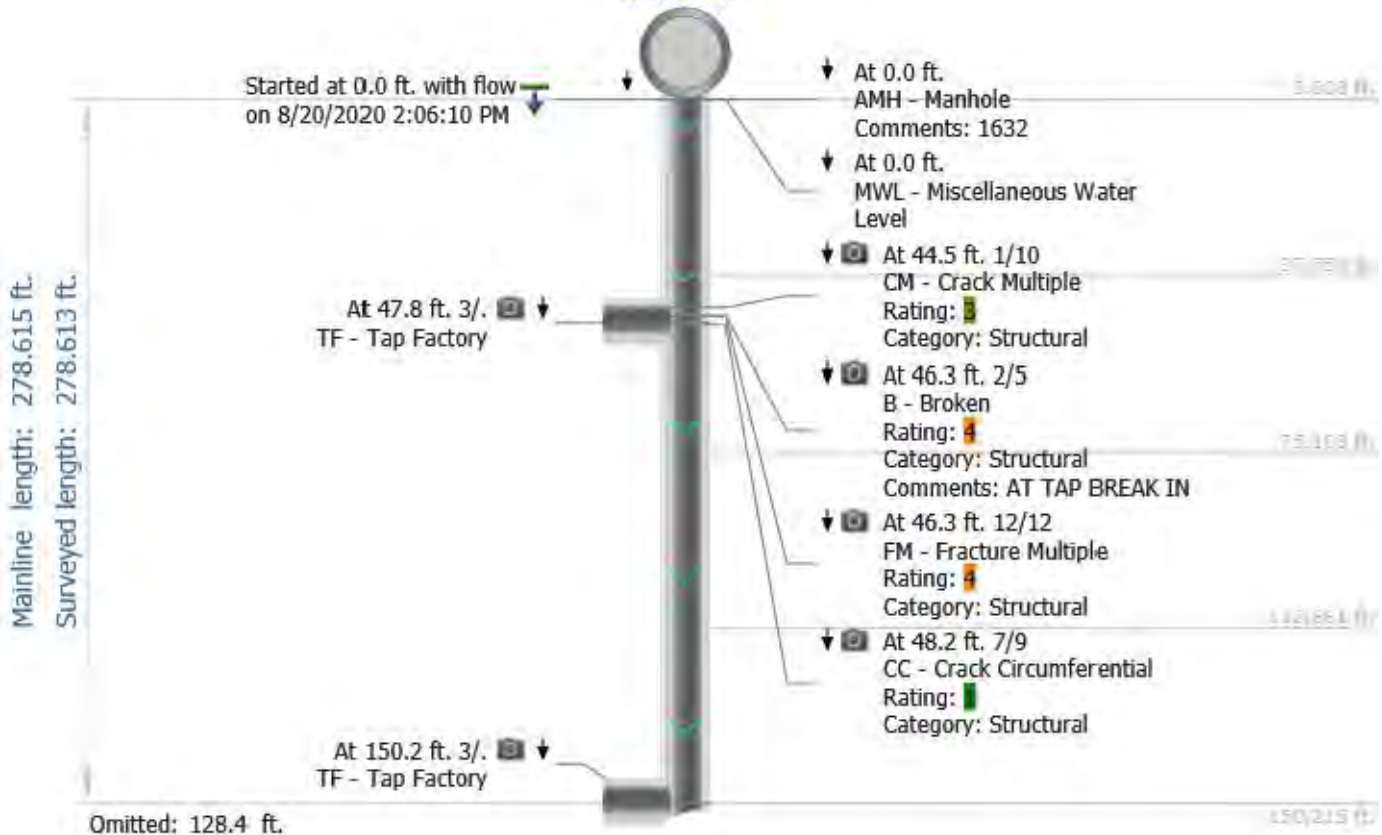
NWMCC INSPECTION REPORT

Start date/time: 20200820 14:06	Weather: Dry - No precipitation during survey	Surveyed by: K.Lang	Certificate number: UO-200-70308438	Pipe segment ref.: 163-1633
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: TIG001-23
City: VERNON	Street: REGAN RD	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 1632	Downstream MH No: 1633	Direction: D	Total length: 278.615 ft.	Length surveyed: 278.613 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	2	23	4431	2.9	0	0	0	0000	0.0	23	2.9	4.4	
2	0	2				0	0							
3	0	3				0	0							
4	0	16				0	0							
5	0	0				0	0							

AMH '1632'



Mainline length: 278.615 ft.
Surveyed length: 278.613 ft.

Omitted: 238.08 ft.

Stopped at 278.6 ft. with flow
on 8/20/2020 2:37:05 PM

AMH '1633'

At 238.1 ft. 1/.	CL - Crack Longitudinal	238.082 ft.
Rating: 2		
Category: Structural		
At 239.4 ft. 12/12	FM - Fracture Multiple	240.613 ft.
Rating: 1		
Category: Structural		
At 240.7 ft. 12/12	FM - Fracture Multiple	243.143 ft.
Rating: 4		
Category: Structural		
		245.682 ft.
		248.213 ft.
		251.743 ft.
		254.282 ft.
		256.813 ft.
		259.343 ft.
		261.882 ft.
		264.413 ft.
		266.943 ft.
		269.482 ft.
		271.013 ft.
		273.543 ft.
At 276.0 ft. 12/12	CC - Crack Circumferential	275.032 ft.
Rating: 1		
Category: Structural		
At 278.5 ft.	AMH - Manhole	278.613 ft.
Comments: 1633		

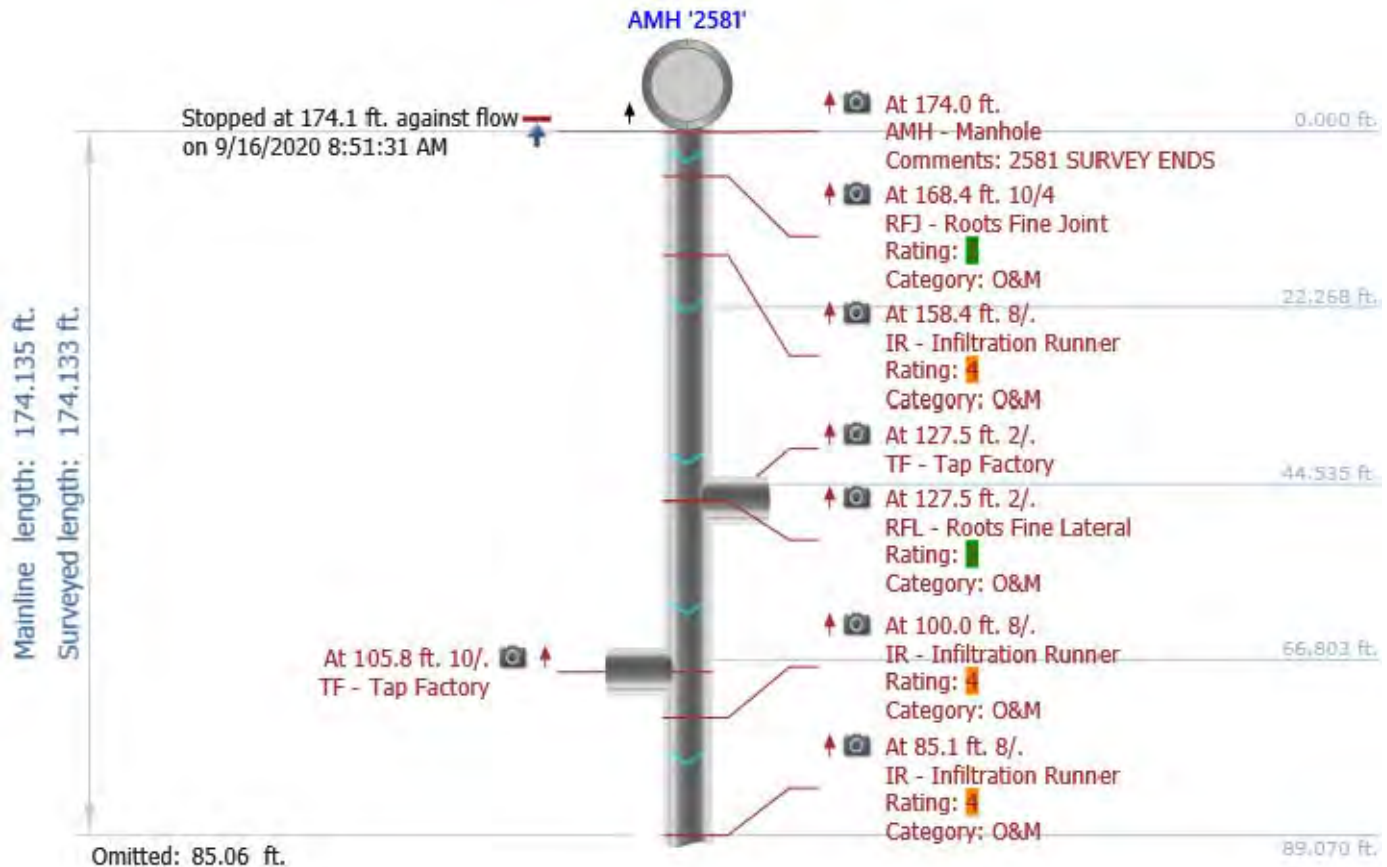
SURVEY ENDS

NWMCC INSPECTION REPORT

Start date/time: 20200916 08:39		Weather: Dry - No precipitation during survey		Surveyed by: K.Lang		Certificate number: UO-200-70308438		Pipe segment ref.: 2581-1743	
Owner:		Customer:		Pre-cleaning: Light Cleaning		Date cleaned:		Project name: TIG001-23	
City: VERNON CT		Street: RISLEY RD		Location code:		Pipe use: Sanitary Sewage Pipe		Drainage area: Flow control:	
Upstream MH No: 2581		Downstream MH No: 1743		Direction: U		Total length: 174.135 ft.		Length surveyed: 174.133 ft.	
Purpose: Maintenance Related		Pipe joint length:		Height: 12 in.		Material: Vitrified Clay Pipe		LateralsCounter: Additional info: V19 (EASEMENT)	

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	1	1	1100	1.0	0	2	14	4312	2.8	15	2.5	4.3	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	12							
5	0	0				0	0							



Mainline length: 174.135 ft.
Surveyed length: 174.133 ft.

Omitted: 172.23 ft.

Started at 0.0 ft. against flow
on 9/16/2020 8:39:36 AM

AMH '1743'



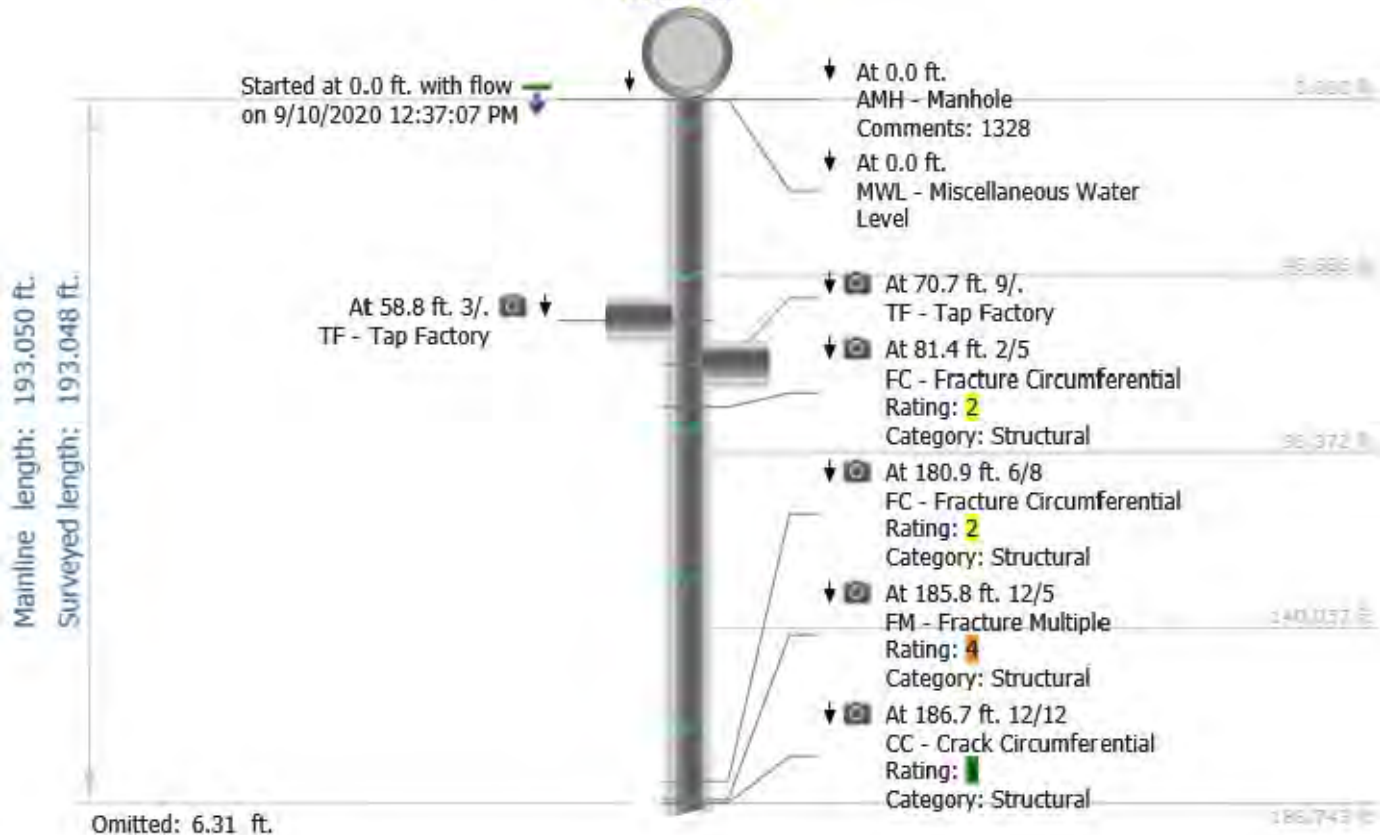
NWMCC INSPECTION REPORT

Start date/time: 20200910 12:37	Weather: Dry - No precipitation during survey	Surveyed by: K.Lang	Certificate number: UO-200-70308438	Pipe segment ref.: 1328-2138
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: TIG001-23
City: VERNON	Street: SCOTT DR	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 1328	Downstream MH No: 2138	Direction: D	Total length: 193.050 ft.	Length surveyed: 193.048 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Vitrified Clay Pipe	LateralsCounter: Additional info: V19

Pipe Ratings

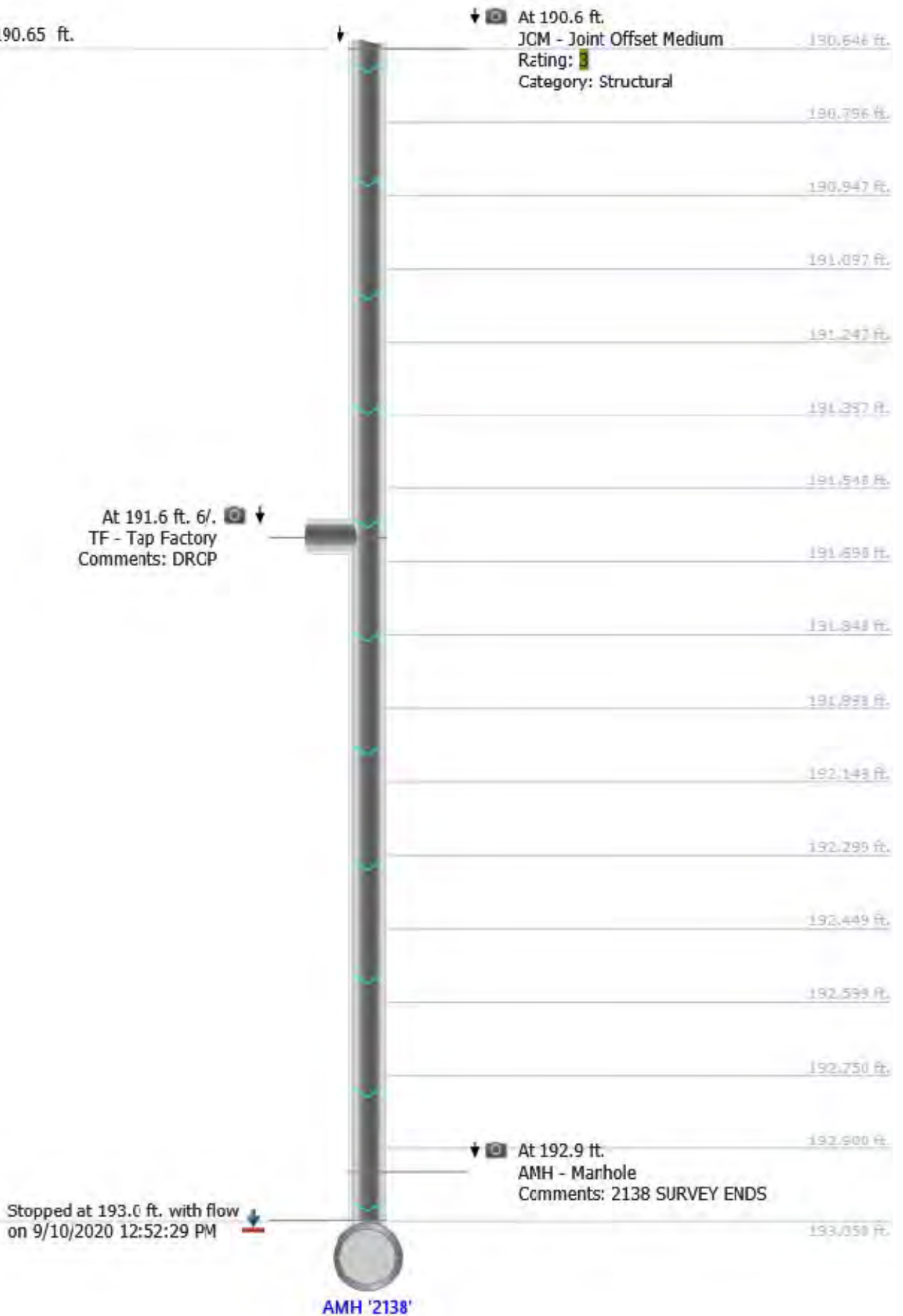
Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	1	12	4131	2.4	0	0	0	0000	0.0	12	2.4	4.1	
2	0	4				0	0							
3	0	3				0	0							
4	0	4				0	0							
5	0	0				0	0							

AMH '1328'



Mainline length: 193.050 ft.
Surveyed length: 193.048 ft.

Omitted: 190.65 ft.

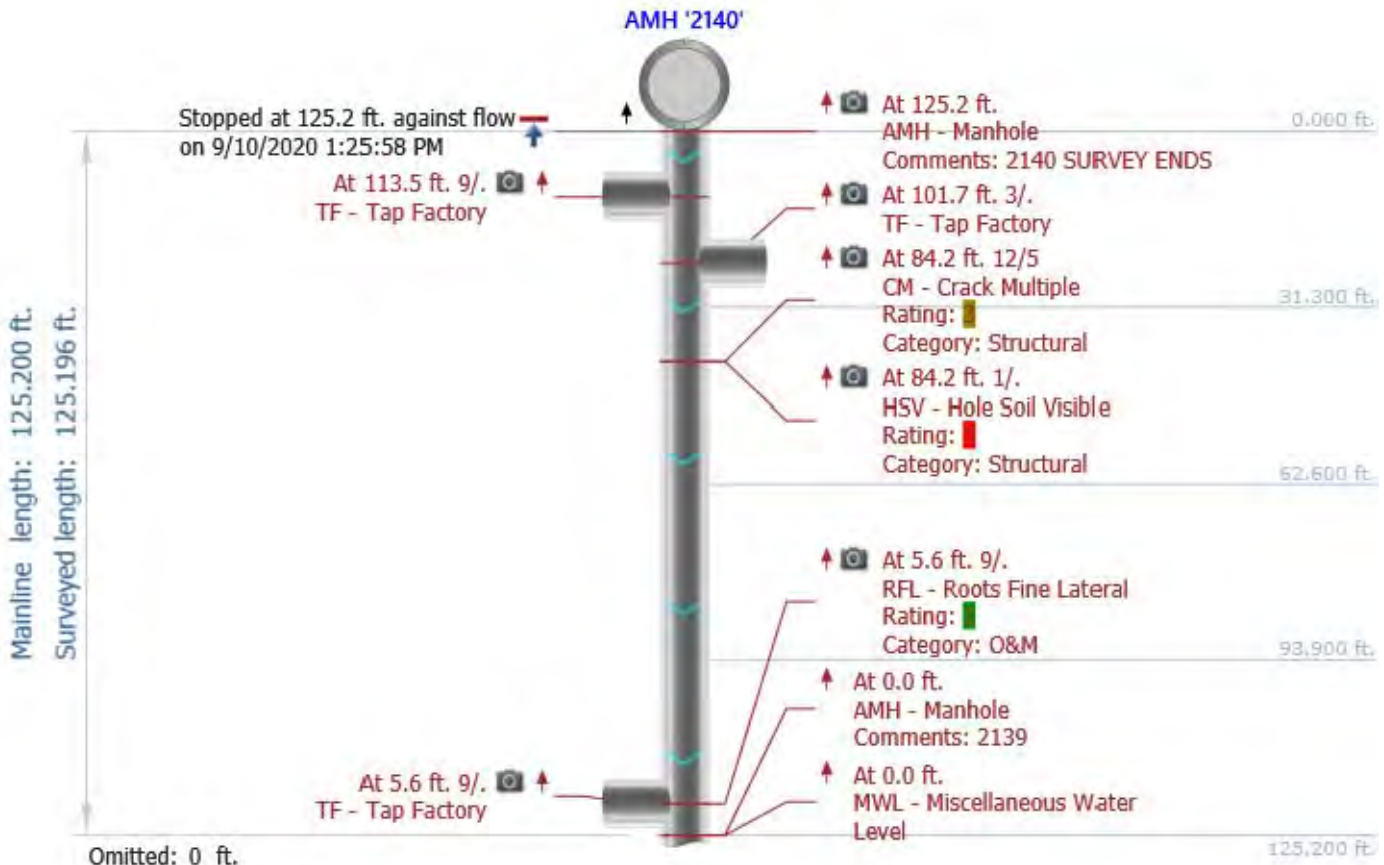


NWMCC INSPECTION REPORT

Start date/time: 20200910 13:12	Weather: Dry - No precipitation during survey	Surveyed by: K.Lang	Certificate number: UO-200-70308438	Pipe segment ref.: 2140-2139
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: TIG001-23
City: VERNON	Street: VINE DR	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 2140	Downstream MH No: 2139	Direction: U	Total length: 125.200 ft.	Length surveyed: 125.196 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Vitrified Clay Pipe	LateralsCounter: Additional info: V19

Pipe Ratings

Grade	Defects	Segment Grade	Structural:			Defects	Segment Grade	O&M:			Pipe Rating	Overall:		
			Pipe Rating	Quick Rating	Pipe Rating Index			Pipe Rating	Quick Rating	Pipe Rating Index		Pipe Rating	Pipe Rating Index	LoF
1	0	0	10	5131	3.3	0	1	1	1100	1.0	11	2.8	5.1	
2	0	2				0	0							
3	0	3				0	0							
4	0	0				0	0							
5	0	5				0	0							



Mainline length: 125.200 ft.
Surveyed length: 125.196 ft.

Omitted: 125.2 ft.

Started at 0.0 ft. against flow
on 9/10/2020 1:12:55 PM



AMH '2139'



At 0.0 ft. 1/.
CL - Crack Longitudinal
Rating: 2
Category: Structural

125.200 ft.
125.200 ft.