APPENDIX B
SANITARY SEWER TELEVISING RECORDS

Tabular Report of PSR SA2051 5 for Village of Newberry

Setup 66	**Surveyor** Brett Healy	**Certificate #** U609-1884	**System Owner** Village of Newberry		
Drainage	**Survey Customer** Village of Newberry				
P/O #	**Date** 2019/05/21	**Time** 8:15	**Street** Charles St.		
City Newberry	**Further location details**				
Up SA2051	**Rim to invert** 11.40	**Grade to invert**	**Rim to grade**	Ft	
Down SA2052A	**Rim to invert** 7.50	**Grade to invert**	**Rim to grade**	Ft	
Use Sanitary	**Direction** Down	**Flow control**	**Media No** 19076		
Shape Circular	**Height** 10 **Width**	ins **Preclean** J	**Date Cleaned**		
Material Vitrified Clay Pipe	**Joint length** 3.00 Ft	**Total length** 291.7 Ft	**Length Surveyed** 291.7 Ft		
Lining	**Year laid**	**Year rehabilitated**	**Weather** Saturated		
Purpose Maintenance Related	**Cat**		**Pressure**		
Additional info		Structural O & M Constructional Miscellaneous			
Location					
Project Newberry 19076			**Work Order**		
Northing	**Easting**		**Elevation**		
Coordinate System			**GPS Accuracy**		

Count	Video		CD	Code		In1	In2	%	Jnt	Fr	To	ImRef	Remarks
0.0				ST	Start of Survey								
0.0				AMH	Manhole								SA2051
0.0				MWL	Water Level			15					
22.7				RFJ	Roots Fine Joint				J	12			
59.2				RFJ	Roots Fine Joint				J	10	11		
176.5				RMJ	Roots Medium Joint			10	J	08	04		
237.2				RFJ	Roots Fine Joint				J	02			
279.3				RMJ	Roots Medium Joint			5	J	08			
291.7				AMH	Manhole								SA2052A
291.7				FH	End of Survey								

291.7 Ft **Total Length Surveyed**

Scores

Structural:	**Pipe Rating** 0	**Pipe Ratings Index** 0	**Quick Rating** 0000
O&M:	**Pipe Rating** 9	**Pipe Ratings Index** 1.8	**Quick Rating** 3213
Overall	**Pipe Rating** 9	**Pipe Ratings Index** 1.8	**Quick Rating** 3213

Notes

MH SA2051
Brick construction
Open pick holes
Tap roots and fine roots throughout
No bench or invert

MH SA2052A
Brick construction
Open pick holes
Roots throughout
Brick deteriorating
No bench or invert

Tabular Report of PSR SA2052A 5 **for** **Village of Newberry**

Setup 67	**Surveyor** Brett Healy	**Certificate #** U609-1884	**System Owner** Village of Newberry		
Drainage	**Survey Customer** Village of Newberry				
P/O #	**Date** 2019/05/21	**Time** 8:47	**Street** Charles St.		
City Newberry	**Further location details**				
Up SA2052A	**Rim to invert** 7.50	**Grade to invert**	**Rim to grade**	Ft	
Down SA2052	**Rim to invert** 10.70	**Grade to invert**	**Rim to grade**	Ft	
Use Sanitary	**Direction** Down	**Flow control**	**Media No** 19076		
Shape Circular	**Height** 10 **Width**	ins **Preclean** J	**Date Cleaned**		
Material Vitrified Clay Pipe	**Joint length** 3.00 Ft	**Total length** 266.9 Ft	**Length Surveyed** 266.9	Ft	
Lining	**Year laid**	**Year rehabilitated**	**Weather** Saturated		
Purpose Maintenance Related	**Cat**		**Pressure**		
Additional info		Structural O & M Constructional Miscellaneous			
Location					
Project Newberry 19076		**Work Order**			
Northing	**Easting**	**Elevation**			
Coordinate System		**GPS Accuracy**			

Count	Video	CD	Code		In1	In2	%	Jnt	Fr	To	ImRef	Remarks
0.0			ST	Start of Survey								
0.0			AMH	Manhole								SA2052A
0.0			MWL	Water Level			15					
27.7			RFJ	Roots Fine Joint				J	04			
42.7			RFJ	Roots Fine Joint				J	12			
58.0			RFJ	Roots Fine Joint				J	09	12		
70.2			RFJ	Roots Fine Joint				J	08	12		
73.5		S01	RFJ	Roots Fine Joint				J	08	03		
84.4		F01	RFJ	Roots Fine Joint				J	08	03		
94.3			RFJ	Roots Fine Joint				J	09			
100.3		S02	RFJ	Roots Fine Joint				J	08	04		
266.9		F02	RFJ	Roots Fine Joint				J	08	04		
266.9			AMH	Manhole								SA2052
266.9			FH	End of Survey								

266.9 **Ft** **Total Length Surveyed**

Scores

Structural:	**Pipe Rating** 0	**Pipe Ratings Index** 0	**Quick Rating** 0000
O&M:	**Pipe Rating** 40	**Pipe Ratings Index** 1	**Quick Rating** 1G00
Overall	**Pipe Rating** 40	**Pipe Ratings Index** 1	**Quick Rating** 1G00

Notes

MH SA2052A
Brick construction
Open pick holes
Roots throughout
Brick deteriorating
No bench or invert

MH SA2052
Brick construction
Open pick holes
Brick cone is exposed above grade / Large fracture in cone
Roots throughout
Brick deteriorating
No bench or invert

CD column indicates continuous defects:
S indicates start of defect
F indicates finish of defect
C indicates change in severity of defect

Great Lakes TV Seal, Inc.
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Fax:920-863-3662

Tabular Report of PSR SA2052-SA2053 for Village of Newberry

Setup	68	**Surveyor**	Brett Healy	**Certificate #**	U609-1884	**System Owner**	Village of Newberry
Drainage		**Survey Customer**	Village of Newberry				
P/O #		**Date**	2019/05/21	**Time**	9:03	**Street**	Charles St.
City	Newberry	**Further location details**					

Up	SA2052	**Rim to invert**	10.70	**Grade to invert**		**Rim to grade**	10.60 Ft
Down	SA2053	**Rim to invert**	6.80	**Grade to invert**		**Rim to grade**	6.70 Ft

Use	Sanitary	**Direction**	Down	**Flow control**		**Media No**	19076
Shape	Circular	**Height**	10	**Width**	ins	**Preclean** J	**Date Cleaned**
Material	Vitrified Clay Pipe	**Joint length**	3.00 Ft	**Total length**	263.0 Ft	**Length Surveyed**	93.9 Ft
Lining		**Year laid**		**Year rehabilitated**		**Weather**	Saturated
Purpose	Maintenance Related	**Cat**				**Pressure**	

Additional info						Structural	O & M Constructional
Location						Miscellaneous	
Project	Newberry 19076					**Work Order**	
Northing		**Easting**				**Elevation**	
Coordinate System						**GPS Accuracy**	

Count	Video	CD	Code		In1	In2	%	Jnt	Fr	To	ImRef	Remarks
0.0			ST	Start of Survey								
0.0			AMH	Manhole								SA2052
0.0			MWL	Water Level			15					
6.1			RMJ	Roots Medium Joint			5	J	09	04		
48.7		S01	RFJ	Roots Fine Joint				J	08	04		
84.7			RMJ	Roots Medium Joint			40	J	12	05	0001	
93.9			RMJ	Roots Medium Joint			35	J	08	04	0002	
93.9		F01	RFJ	Roots Fine Joint				J	08	04		
93.9			MSA	Abandoned Survey								CAMERA CANNOT CONTINUE'

93.9 **Ft** **Total Length Surveyed**

Tabular Report of PSR SA2052-SA2053 for Village of Newberry

Setup	68	**Surveyor** Brett Healy		**Certificate #** U609-1884		**System Owner** Village of Newberry	
Drainage		**Survey Customer** Village of Newberry					
P/O #		**Date** 2019/05/21	**Time** 9:03	**Street** Charles St.			
City	Newberry	**Further location details**					
Up	SA2052	**Rim to invert** 10.70		**Grade to invert**		**Rim to grade** 10.60	Ft
Down	SA2053	**Rim to invert** 6.80		**Grade to invert**		**Rim to grade** 6.70	Ft
Use	Sanitary	**Direction** Down		**Flow control**		**Media No** 19076	
Shape	Circular	**Height** 10	**Width**	ins	**Preclean** J	**Date Cleaned**	
Material	Vitrified Clay Pipe	**Joint length** 3.00 Ft		**Total length** 263.0 Ft		**Length Surveyed** 93.9	Ft
Lining		**Year laid**		**Year rehabilitated**		**Weather** Saturated	
Purpose	Maintenance Related	**Cat**				**Pressure**	
Additional info					Structural O & M Constructional Miscellaneous		
Location							
Project	Newberry 19076				**Work Order**		
Northing		**Easting**			**Elevation**		
Coordinate System					**GPS Accuracy**		

Scores

Structural:	**Pipe Rating** 0	**Pipe Ratings Index** 0	**Quick Rating** 0000
O&M:	**Pipe Rating** 18	**Pipe Ratings Index** 1.5	**Quick Rating** 3319
Overall	**Pipe Rating** 18	**Pipe Ratings Index** 1.5	**Quick Rating** 3319

Notes

MH SA2052
Brick construction
Open pick holes
Brick cone is exposed above grade / Large fracture in cone
Roots throughout
Brick deteriorating
No bench or invert

MH SA2053
Brick construction
Open pick holes
Heavy roots on bench
The invert in the manhole is higher than the invert of the 10" line holding water back
Inverts from south and east could easily be evened out

*Note: At 93.9' camera cannot continue due to roots
Will do a reverse setup / See setup 69

CD column indicates continuous defects:
S indicates start of defect
F indicates finish of defect
C indicates change in severity of defect

CCTV pictures of SA2052-SA2053 **for** Village of Newberry

Work Order	**Surveyed On** 2019/05/21	**Setup** 68/69
Street Name Charles St.		**Video** 19076
City Name Newberry	**Weather** Saturated	
Location		
From Manhole SA2052	**To Manhole** SA2053	**Direction** Downstream

Date: 2019/05/21 **Distance:** 84.7 Ft **Obs:** Roots Medium Joint

Comments:

Date: 2019/05/21 **Distance:** 93.9 Ft **Obs:** Roots Medium Joint

Comments:

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Tabular Report of PSR SA2052-SA2053 for Village of Newberry

Setup	69	**Surveyor**	Brett Healy	**Certificate #**	U609-1884	**System Owner**	Village of Newberry
Drainage		**Survey Customer**	Village of Newberry				
P/O #		**Date**	2019/05/21	**Time**	9:11	**Street**	Charles St.
City	Newberry	**Further location details**					

Up	SA2052	**Rim to invert**	10.70	**Grade to invert**		**Rim to grade**	10.60	**Ft**
Down	SA2053	**Rim to invert**	6.80	**Grade to invert**		**Rim to grade**	6.70	**Ft**

Use	Sanitary	**Direction**	Up	**Flow control**		**Media No**	19076		
Shape	Circular	**Height**	10	**Width**	**ins**	**Preclean**	J	**Date Cleaned**	
Material	Vitrified Clay Pipe	**Joint length**	3.00 **Ft**	**Total length**	263.0 **Ft**	**Length Surveyed**	104.1	**Ft**	
Lining		**Year laid**		**Year rehabilitated**		**Weather**	Saturated		
Purpose	Maintenance Related	**Cat**				**Pressure**			

Additional info	Reverse setup	Structural	O & M	Constructional
Location		Miscellaneous	
Project	Newberry 19076	**Work Order**	
Northing	**Easting**	**Elevation**	
Coordinate System		**GPS Accuracy**	

Count	Video	CD	Code		In1	In2	%	Jnt	Fr	To	ImRef	Remarks
0.0			ST	Start of Survey								
0.0			AMH	Manhole								SA2053
0.0			MWL	Water Level			40					
4.0		S01	RMJ	Roots Medium Joint			20	J	09	03	0001	
27.9			RMJ	Roots Medium Joint			40	J	12	12	0002	
46.7			RMJ	Roots Medium Joint			25	J	03		0003	
77.4			MWL	Water Level			50					
104.1			RMJ	Roots Medium Joint			40	J	01		0004	
104.1		F01	RMJ	Roots Medium Joint			20	J	09	03		
104.1			MSA	Abandoned Survey								CAMERA CANNOT CONTINUE*

104.1 **Ft** **Total Length Surveyed**

Tabular Report of PSR SA2052-SA2053 for Village of Newberry

Setup	69	**Surveyor**	Brett Healy	**Certificate #**	U609-1884	**System Owner**	Village of Newberry
Drainage		**Survey Customer**	Village of Newberry				
P/O #		**Date**	2019/05/21	**Time**	9:11	**Street**	Charles St.
City	Newberry	**Further location details**					

Up	SA2052	**Rim to invert**	10.70	**Grade to invert**		**Rim to grade**	10.60 Ft
Down	SA2053	**Rim to invert**	6.80	**Grade to invert**		**Rim to grade**	6.70 Ft

Use	Sanitary	**Direction**	Up	**Flow control**		**Media No**	19076
Shape	Circular	**Height**	10 **Width**	ins	**Preclean** J	**Date Cleaned**	
Material	Vitrified Clay Pipe	**Joint length**	3.00 Ft	**Total length**	263.0 Ft	**Length Surveyed**	104.1 Ft
Lining		**Year laid**		**Year rehabilitated**		**Weather**	Saturated
Purpose	Maintenance Related	**Cat**				**Pressure**	

Additional info	Reverse setup	Structural	O & M	Constructional	
Location		Miscellaneous			
Project	Newberry 19076			**Work Order**	
Northing		**Easting**		**Elevation**	
Coordinate System				**GPS Accuracy**	

Scores

Structural:	**Pipe Rating** 0	**Pipe Ratings Index** 0	**Quick Rating** 0000
O&M:	**Pipe Rating** 69	**Pipe Ratings Index** 3	**Quick Rating** 3C00
Overall	**Pipe Rating** 69	**Pipe Ratings Index** 3	**Quick Rating** 3C00

Notes

MH SA2053
Brick construction
Open pick holes
Heavy roots on bench
The invert in the manhole is higher than the invert of the 10" line holding water back
Inverts from south and east could easily be evened out

MH SA2052
Brick construction
Open pick holes
Brick cone is exposed above grade / Large fracture in cone
Roots throughout
Brick deteriorating
No bench or invert

*Note: At 104.1' camera cannot continue due to roots / Section incomplete / 70' not televised

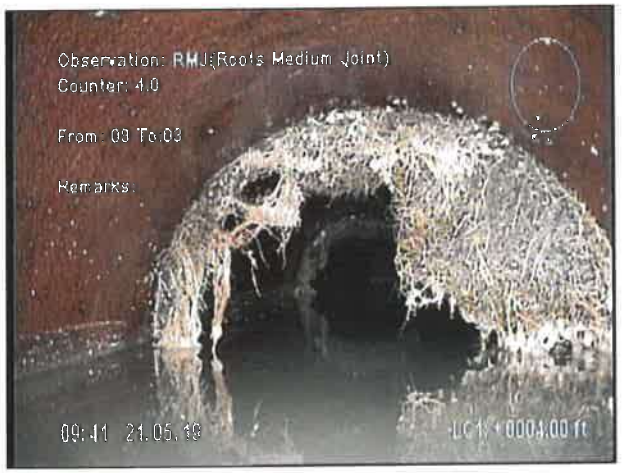
CD column indicates continuous defects:
S indicates start of defect
F indicates finish of defect
C indicates change in severity of defect

CCTV pictures of SA2052-SA2053 **for** Village of Newberry

Work Order	**Video** 19076	**Surveyed On** 2019/05/21	**Direction** Upstream	**Setup** 69/68
Street Name Charles St.		**City Name** Newberry	**Weather** Saturated	
Location		**From Manhole** SA2053	**To Manhole** SA2052	

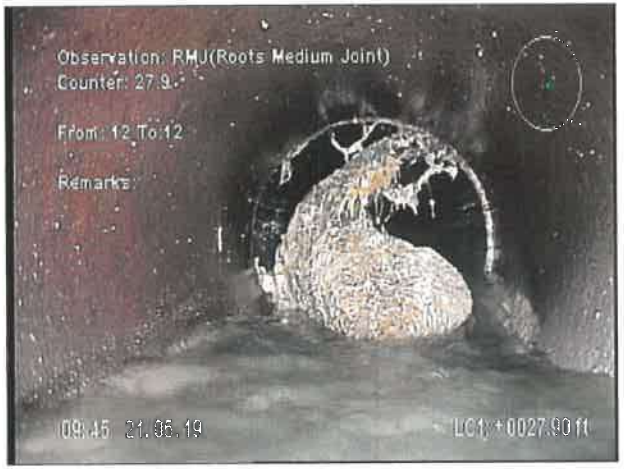
Date: 2019/05/21
Distance: 4.0 Ft
Obs: Roots Medium Joint

Comments:



Date: 2019/05/21
Distance: 27.9 Ft
Obs: Roots Medium Joint

Comments:



Date: 2019/05/21
Distance: 46.7 Ft
Obs: Roots Medium Joint

Comments:

Date: 2019/06/05
Distance: 104.1 Ft
Obs: Roots Medium Joint

Comments:

Tabular Report of PSR SA2053-SA2054 for Village of Newberry

Setup	70	**Surveyor**	Brett Healy	**Certificate #**	U609-1884	**System Owner**	Village of Newberry
Drainage		**Survey Customer**	Village of Newberry				
P/O #		**Date**	2019/05/21	**Time**	11:21	**Street**	Charles St.
City	Newberry	**Further location details**					
Up	SA2053	**Rim to invert**	6.80	**Grade to invert**		**Rim to grade**	6.90 Ft
Down	SA2054	**Rim to invert**	6.20	**Grade to invert**		**Rim to grade**	6.05 Ft
Use	Sanitary	**Direction**	Down	**Flow control**		**Media No**	19076
Shape	Circular	**Height**	10 **Width**	ins	**Preclean** J	**Date Cleaned**	
Material	Vitrified Clay Pipe	**Joint length**	3.00 Ft	**Total length**	234.0 Ft	**Length Surveyed**	181.2 Ft
Lining		**Year laid**		**Year rehabilitated**		**Weather**	Saturated
Purpose	Maintenance Related	**Cat**				**Pressure**	
Additional info						Structural O & M Constructional Miscellaneous	
Location							
Project	Newberry 19076					**Work Order**	
Northing		**Easting**				**Elevation**	
Coordinate System						**GPS Accuracy**	

Count	Video	CD	Code		In1	In2	%	Jnt	Fr	To	ImRef	Remarks
0.0			ST	Start of Survey								
0.0			AMH	Manhole								SA2053
0.0			MWL	Water Level			15					
5.0		S01	RMJ	Roots Medium Joint			15	J	08	04		
70.1		F01	RMJ	Roots Medium Joint			15	J	08	04		
108.1		S02	RFJ	Roots Fine Joint				J	08	04		
131.2			RMJ	Roots Medium Joint			15	J	10			
155.5			RMJ	Roots Medium Joint			50	J	12		0001	
170.8			RBJ	Roots Ball Joint			85	J	12	12	0002	
174.6			RBJ	Roots Ball Joint			55	J	12		0003	
178.7			RBJ	Roots Ball Joint			90	J	12	12	0004	
181.2		F02	RFJ	Roots Fine Joint				J	08	04		
181.2			MSA	Abandoned Survey								CAMERA CANNOT CONTINUE*

181.2 **Ft** **Total Length Surveyed**

Tabular Report of PSR SA2053-SA2054 **for** **Village of Newberry**

Setup	70	**Surveyor** Brett Healy		**Certificate #** U609-1884		**System Owner** Village of Newberry	
Drainage			**Survey Customer** Village of Newberry				
P/O #		**Date** 2019/05/21		**Time** 11:21		**Street** Charles St.	
City	Newberry		**Further location details**				
Up	SA2053		**Rim to invert** 6.80		**Grade to invert**	**Rim to grade** 6.90	Ft
Down	SA2054		**Rim to invert** 6.20		**Grade to invert**	**Rim to grade** 6.05	Ft
Use	Sanitary	**Direction** Down		**Flow control**		**Media No** 19076	
Shape	Circular	**Height** 10	**Width**	ins	**Preclean** J	**Date Cleaned**	
Material	Vitrified Clay Pipe		**Joint length** 3.00 Ft		**Total length** 234.0 Ft	**Length Surveyed** 181.2	Ft
Lining			**Year laid**		**Year rehabilitated**	**Weather** Saturated	
Purpose	Maintenance Related		**Cat**			**Pressure**	
Additional info					Structural O & M Constructional Miscellaneous		
Location							
Project	Newberry 19076				**Work Order**		
Northing			**Easting**		**Elevation**		
Coordinate System					**GPS Accuracy**		

Scores

Structural:	**Pipe Rating** 0	**Pipe Ratings Index** 0	**Quick Rating** 0000
O&M:	**Pipe Rating** 72	**Pipe Ratings Index** 2.2	**Quick Rating** 433B
Overall	**Pipe Rating** 72	**Pipe Ratings Index** 2.2	**Quick Rating** 433B

Notes

MH SA2053
Brick construction
Open pick holes
Heavy roots on bench
The invert in the manhole is higher than the invert of the 10" line holding water back
Inverts from south and east could easily be evened out

MH SA2054
Brick construction
Open pick holes
Heavy roots on bench
Light deterioration and roots throughout

*Note: At 181.2' camera cannot continue due to roots
Will do a reverse setup / See setup 71

CD column indicates continuous defects:
S indicates start of defect
F indicates finish of defect
C indicates change in severity of defect

CCTV pictures of SA2053-SA2054 **for** Village of Newberry

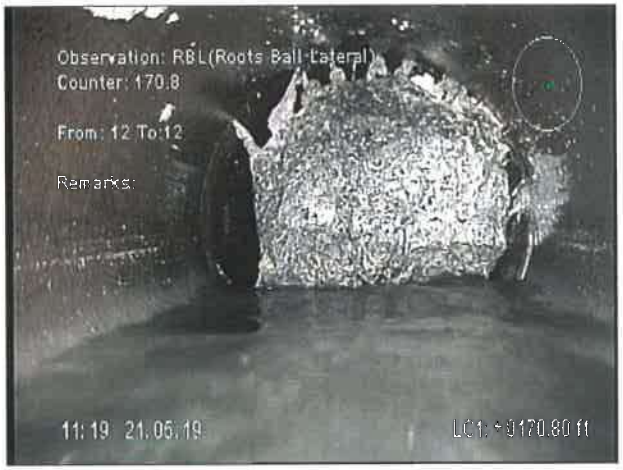
Work Order	**Video** 19076	**Surveyed On** 2019/05/21	**Direction** Downstream	**Setup** 70/71
Street Name Charles St.		**City Name** Newberry	**Weather** Saturated	
Location		**From Manhole** SA2053	**To Manhole** SA2054	

Date: 2019/05/21
Distance: 155.5 Ft
Obs: Roots Medium Joint

Comments:

Date: 2019/05/21
Distance: 170.8 Ft
Obs: Roots Ball Joint

Comments:

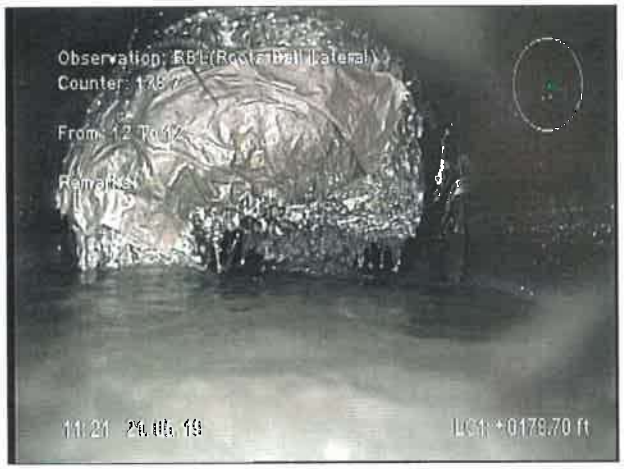


Date: 2019/05/21
Distance: 174.6 Ft
Obs: Roots Ball Joint

Comments:

Date: 2019/05/21
Distance: 178.7 Ft
Obs: Roots Ball Joint

Comments:



Tabular Report of PSR SA2053-SA2054 for Village of Newberry

Setup	71	**Surveyor**	Brett Healy	**Certificate #**	U609-1884	**System Owner**	Village of Newberry
Drainage		**Survey Customer**	Village of Newberry				
P/O #		**Date**	2019/05/21	**Time**	11:33	**Street**	Charles St.
City	Newberry	**Further location details**					

Up	SA2053	**Rim to invert**	6.80	**Grade to invert**		**Rim to grade**	6.90 Ft
Down	SA2054	**Rim to invert**	6.20	**Grade to invert**		**Rim to grade**	6.05 Ft

Use	Sanitary	**Direction**	Up	**Flow control**		**Media No**	19076
Shape	Circular	**Height**	10 **Width**	ins	**Preclean** J	**Date Cleaned**	
Material	Vitrified Clay Pipe	**Joint length**	3.00 Ft	**Total length**	234.0 Ft	**Length Surveyed**	37.4 Ft
Lining		**Year laid**		**Year rehabilitated**		**Weather**	Saturated
Purpose	Maintenance Related	**Cat**				**Pressure**	

Additional info	Reverse setup	Structural	O & M Constructional
Location		Miscellaneous	
Project	Newberry 19076		**Work Order**
Northing		**Easting**	**Elevation**
Coordinate System			**GPS Accuracy**

Count	Video	CD	Code		In1	In2	%	Jnt	Fr	To	ImRef	Remarks
0.0			ST	Start of Survey								
0.0			AMH	Manhole								SA2054
0.0			MWL	Water Level			15					
3.0		S01	RMJ	Roots Medium Joint			15	J	08	04		
10.5			MWL	Water Level			50					
28.3		S02	RMJ	Roots Medium Joint			30	J	08	04	0001	
32.1			RMJ	Roots Medium Joint			50	J	08	04	0002	
35.9			RBJ	Roots Ball Joint			90	J	08	04	0003	
37.4		F01	RMJ	Roots Medium Joint			15	J	08	04		
37.4		F02	RMJ	Roots Medium Joint			30	J	08	04		
37.4			MSA	Abandoned Survey								CAMERA CANNOT CONTINUE*

37.4 **Ft** **Total Length Surveyed**

Tabular Report of PSR SA2053-SA2054 for Village of Newberry

Setup	71	**Surveyor** Brett Healy		**Certificate #** U609-1884		**System Owner** Village of Newberry	
Drainage		**Survey Customer** Village of Newberry					
P/O #		**Date** 2019/05/21	**Time** 11:33	**Street** Charles St.			
City	Newberry	**Further location details**					
Up	SA2053	**Rim to invert** 6.80		**Grade to invert**		**Rim to grade** 6.90	**Ft**
Down	SA2054	**Rim to invert** 6.20		**Grade to invert**		**Rim to grade** 6.05	**Ft**
Use	Sanitary	**Direction** Up		**Flow control**		**Media No** 19076	
Shape	Circular	**Height** 10	**Width**	**ins**	**Preclean** J	**Date Cleaned**	
Material	Vitrified Clay Pipe	**Joint length** 3.00 **Ft**		**Total length** 234.0 **Ft**		**Length Surveyed** 37.4	**Ft**
Lining		**Year laid**		**Year rehabilitated**		**Weather** Saturated	
Purpose	Maintenance Related	**Cat**				**Pressure**	
Additional info	Reverse setup					Structural O & M Constructional Miscellaneous	
Location							
Project	Newberry 19076					**Work Order**	
Northing		**Easting**				**Elevation**	
Coordinate System						**GPS Accuracy**	

Scores

Structural:	**Pipe Rating** 0	**Pipe Ratings Index** 0	**Quick Rating** 0000
O&M:	**Pipe Rating** 34	**Pipe Ratings Index** 3.1	**Quick Rating** 413A
Overall	**Pipe Rating** 34	**Pipe Ratings Index** 3.1	**Quick Rating** 413A

Notes

MH SA2054
Brick construction
Open pick holes
Heavy roots on bench
Light deterioration and roots throughout

MH SA2053
Brick construction
Open pick holes
Heavy roots on bench
The invert in the manhole is higher than the invert of the 10" line holding water back
Inverts from south and east could easily be evened out

*Note: At 37.4' camera cannot continue due to roots / Section incomplete / 17' not televised

CD column indicates continuous defects:
S indicates start of defect
F indicates finish of defect
C indicates change in severity of defect

CCTV pictures of SA2053-SA2054 **for** Village of Newberry

Work Order	Video 19076	Surveyed On 2019/05/21	Direction Upstream	Setup 71/70
Street Name Charles St.		City Name Newberry	Weather Saturated	
Location		From Manhole SA2054	To Manhole SA2053	

Date: 2019/05/21
Distance: 28.3 Ft
Obs: Roots Medium Joint

Comments:

Date: 2019/05/21
Distance: 32.1 Ft
Obs: Roots Medium Joint

Comments:

Date: 2019/05/21
Distance: 35.9 Ft
Obs: Roots Ball Joint

Comments:

Tabular Report of PSR SA2054-SA2055 for Village of Newberry

Setup	72	**Surveyor** Brett Healy		**Certificate #** U609-1884		**System Owner** Village of Newberry	
Drainage		**Survey Customer** Village of Newberry					
P/O #		**Date** 2019/05/21	**Time** 11:58	**Street** Charles St.			
City	Newberry	**Further location details**					
Up	SA2054	**Rim to invert** 6.20		**Grade to invert**		**Rim to grade** 6.10	Ft
Down	SA2055	**Rim to invert** 5.60		**Grade to invert**		**Rim to grade** 5.50	Ft
Use	Sanitary	**Direction** Down		**Flow control**		**Media No** 19076	
Shape	Circular	**Height** 10	**Width**	ins	**Preclean** J	**Date Cleaned**	
Material	Vitrified Clay Pipe	**Joint length** 3.00 Ft		**Total length** 286.4 Ft		**Length Surveyed** 286.4	Ft
Lining		**Year laid**		**Year rehabilitated**		**Weather** Saturated	
Purpose	Maintenance Related	**Cat**				**Pressure**	
Additional Info						Structural O & M Constructional Miscellaneous	
Location							
Project	Newberry 19076					**Work Order**	
Northing		**Easting**				**Elevation**	
Coordinate System						**GPS Accuracy**	

Count	Video	CD	Code		In1	In2	%	Jnt	Fr	To	ImRef	Remarks
0.0			ST	Start of Survey								
0.0			AMH	Manhole								SA2054
0.0			MWL	Water Level			15					
3.0		S01	RMJ	Roots Medium Joint			15	J	08	04		
20.7			RMJ	Roots Medium Joint			15	J	08	04		
286.4		F01	RMJ	Roots Medium Joint			15	J	08	04		
286.4			AMH	Manhole								SA2055
286.4			FH	End of Survey								

286.4 **Ft** **Total Length Surveyed**

Scores

Structural:	**Pipe Rating** 0	**Pipe Ratings Index** 0	**Quick Rating** 0000
O&M:	**Pipe Rating** 174	**Pipe Ratings Index** 3	**Quick Rating** 3J00
Overall	**Pipe Rating** 174	**Pipe Ratings Index** 3	**Quick Rating** 3J00

Notes

MH SA2054
- Brick construction
- Open pick holes
- Heavy roots on bench
- Light deterioration and roots throughout

MH SA2055
- Precast construction
- No gasket on cover
- Bench deteriorating
- Adjustment rings are above grade / Large fractures and pieces missing
- Manhole is in center of ditch / Water can enter holes in adjustment area

CD column indicates continuous defects:
- S indicates start of defect
- F indicates finish of defect
- C indicates change in severity of defect

Tabular Report of PSR SA2055-SA2056A for Village of Newberry

Setup	73	**Surveyor** Brett Healy		**Certificate #** U609-1884		**System Owner** Village of Newberry	
Drainage		**Survey Customer** Village of Newberry					
P/O #		**Date** 2019/05/21	**Time** 12:27	**Street** Charles St.			
City	Newberry	**Further location details**					
Up	SA2055	**Rim to invert**		**Grade to invert**		**Rim to grade** 5.60	Ft
Down	SA2056A	**Rim to invert**		**Grade to invert**		**Rim to grade** 6.15	Ft
Use	Sanitary	**Direction** Down		**Flow control**		**Media No** 19076	
Shape	Circular	**Height** 10	**Width**	ins	**Preclean** J	**Date Cleaned**	
Material	Vitrified Clay Pipe	**Joint length**	Ft	**Total length**	Ft	**Length Surveyed** 98.6	Ft
Lining		**Year laid**		**Year rehabilitated**		**Weather** Saturated	
Purpose	Maintenance Related	**Cat**				**Pressure**	
Additional info						Structural O & M Constructional Miscellaneous	
Location							
Project	Newberry 19076					**Work Order**	
Northing		**Easting**				**Elevation**	
Coordinate System						**GPS Accuracy**	

Count	Video		CD	Code		In1	In2	%	JntFr	To	ImRef		Remarks
0.0				ST	Start of Survey								
0.0				AMH	Manhole								SA2055
0.0				MWL	Water Level			15					
21.8				RFJ	Roots Fine Joint				J	11	03		
33.6				RFJ	Roots Fine Joint				J	10	02		
44.5				RFJ	Roots Fine Joint				J	09	04		
49.1				RFJ	Roots Fine Joint				J	10	03		
69.9				RFJ	Roots Fine Joint				J	09			
74.8				RFJ	Roots Fine Joint				J	09			
84.5				RFJ	Roots Fine Joint				J	09	04		
98.6				AMH	Manhole								SA2056A
98.6				FH	End of Survey								

98.6 **Ft** **Total Length Surveyed**

Scores

Structural:	**Pipe Rating** 0	**Pipe Ratings Index** 0	**Quick Rating** 0000
O&M:	**Pipe Rating** 7	**Pipe Ratings Index** 1	**Quick Rating** 1700
Overall	**Pipe Rating** 7	**Pipe Ratings Index** 1	**Quick Rating** 1700

Notes

Note: Announcement and manhole numbers on screen are incorrect / Screen should read MH SA2055 to SA2056A

MH SA2055
Precast construction
No gasket on cover
Bench deteriorating
Adjustment rings are above grade / Large fractures and pieces missing
Manhole is in center of ditch / Water can enter holes in adjustment area

MH SA2056A
Precast construction
Bench deteriorating
No gasket on cover

Tabular Report of PSR SA2056A 5 for Village of Newberry

Setup 74	**Surveyor** Brett Healy	**Certificate #** U609-1884	**System Owner** Village of Newberry		
Drainage	**Survey Customer** Village of Newberry				
P/O #	**Date** 2019/05/21	**Time** 13:05	**Street** Charles St.		
City Newberry	**Further location details**				
Up SA2999	**Rim to invert**	**Grade to invert**	**Rim to grade**	Ft	
Down SA2056	**Rim to invert** 8.40	**Grade to invert**	**Rim to grade**	Ft	
Use Sanitary	**Direction** Up	**Flow control**	**Media No** 19076		
Shape Circular	**Height** 10 **Width**	ins **Preclean** J	**Date Cleaned**		
Material Vitrified Clay Pipe	**Joint length** 3.00 Ft	**Total length** 92.8 Ft	**Length Surveyed** 92.8 Ft		
Lining	**Year laid**	**Year rehabilitated**	**Weather** Saturated		
Purpose Maintenance Related	**Cat**		**Pressure**		
Additional info		Structural O & M Constructional Miscellaneous			
Location					
Project Newberry 19076		**Work Order**			
Northing	**Easting**	**Elevation**			
Coordinate System		**GPS Accuracy**			

Count	Video	CD	Code		In1	In2	%	Jnt	Fr	To	ImRef	Remarks
0.0			ST	Start of Survey								
0.0			AMH	Manhole								SA2056
0.0			MWL	Water Level			15					
55.7			RFJ	Roots Fine Joint				J	09	04		
60.5		S01	RFJ	Roots Fine Joint				J	08	04		
76.2			MMC	Material change								TO PVC
78.0			TS	Tap Saddle	4.000				09			
81.1			MMC	Material change								TO VCP
92.8		F01	RFJ	Roots Fine Joint				J	08	04		
92.8			AMH	Manhole								SA2999
92.8			FH	End of Survey								

92.8 Ft **Total Length Surveyed**

Scores

Structural:	**Pipe Rating** 0	**Pipe Ratings Index** 0	**Quick Rating** 0000
O&M:	**Pipe Rating** 7	**Pipe Ratings Index** 1	**Quick Rating** 1700
Overall	**Pipe Rating** 7	**Pipe Ratings Index** 1	**Quick Rating** 1700

Notes

Note: Announcement and manhole numbers on screen are incorrect / Screen should read MH SA2056 to SA2999

MH SA2056
Brick construction
Open pick holes
Bench deteriorating

MH SA2999
Manhole is either buried or does not exist
It appears on the video that we may have entered the grinder station as opposed to a manhole

CD column indicates continuous defects:
S indicates start of defect
F indicates finish of defect
C indicates change in severity of defect

Tabular Report of PSR SA2056-SA2057 for Village of Newberry

Setup	75	**Surveyor** Brett Healy		**Certificate #** U609-1884		**System Owner** Village of Newberry	
Drainage		**Survey Customer** Village of Newberry					
P/O #		**Date** 2019/05/21	**Time** 13:22	**Street** Charles St.			
City	Newberry	**Further location details**					
Up	SA2056	**Rim to invert** 8.40		**Grade to invert**		**Rim to grade** 8.45	Ft
Down	SA2057	**Rim to invert** 6.20		**Grade to invert**		**Rim to grade** 5.95	Ft
Use	Sanitary	**Direction** Down		**Flow control**		**Media No** 19076	
Shape	Circular	**Height** 10	**Width**	ins	**Preclean** J	**Date Cleaned**	
Material	Vitrified Clay Pipe	**Joint length** 3.00 Ft		**Total length** 352.6 Ft		**Length Surveyed** 352.6	Ft
Lining		**Year laid**		**Year rehabilitated**		**Weather** Saturated	
Purpose	Maintenance Related	**Cat**				**Pressure**	
Additional info						Structural O & M Constructional Miscellaneous	
Location							
Project	Newberry 19076					**Work Order**	
Northing		**Easting**				**Elevation**	
Coordinate System						**GPS Accuracy**	

Count	Video	CD	Code		In1	In2	%	Jnt	Fr	To	ImRef	Remarks
0.0			ST	Start of Survey								
0.0			AMH	Manhole								SA2056
0.0			MWL	Water Level			15					
168.3			RFJ	Roots Fine Joint				J	11			
232.2		S01	RFJ	Roots Fine Joint				J	08	04		
277.3		F01	RFJ	Roots Fine Joint				J	08	04		
289.8			TB	Tap Break-in	4.000				12			
352.6			AMH	Manhole								SA2057
352.6			FH	End of Survey								

352.6 **Ft** **Total Length Surveyed**

Scores

Structural:	**Pipe Rating** 0	**Pipe Ratings Index** 0	**Quick Rating** 0000
O&M:	**Pipe Rating** 10	**Pipe Ratings Index** 1	**Quick Rating** 1A00
Overall	**Pipe Rating** 10	**Pipe Ratings Index** 1	**Quick Rating** 1A00

Notes

MH SA2056
Brick construction
Open pick holes
Bench deteriorating

MH SA2057
Poured construction
Open pick holes

CD column indicates continuous defects:
S indicates start of defect
F indicates finish of defect
C indicates change in severity of defect

Tabular Report of PSR SA2057-SA2058 for Village of Newberry

Setup	76	**Surveyor**	Brett Healy	**Certificate #**	U609-1884	**System Owner**	Village of Newberry
Drainage		**Survey Customer**	Village of Newberry				
P/O #		**Date**	2019/05/21	**Time**	13:36	**Street**	Charles St.
City	Newberry	**Further location details**					
Up	SA2057	**Rim to invert**	6.20	**Grade to invert**		**Rim to grade**	6.10 Ft
Down	SA2058	**Rim to invert**	6.30	**Grade to invert**		**Rim to grade**	6.25 Ft
Use	Sanitary	**Direction**	Down	**Flow control**		**Media No**	19076
Shape	Circular	**Height**	10 **Width**	ins	**Preclean** J	**Date Cleaned**	
Material	Vitrified Clay Pipe	**Joint length**	3.00 Ft	**Total length**	48.3 Ft	**Length Surveyed**	48.3 Ft
Lining		**Year laid**		**Year rehabilitated**		**Weather**	Saturated
Purpose	Maintenance Related	**Cat**				**Pressure**	
Additional info						Structural O & M Constructional Miscellaneous	
Location							
Project	Newberry 19076					**Work Order**	
Northing		**Easting**				**Elevation**	
Coordinate System						**GPS Accuracy**	

Count	Video	CD	Code		In1	In2	%	Jnt	Fr	To	ImRef	Remarks
0.0			ST	Start of Survey								
0.0			AMH	Manhole								SA2057
0.0			MWL	Water Level			15					
5.1			TF	Tap Factory	10.000				12			
12.4		S01	RFJ	Roots Fine Joint				J	09	03		
29.0		S02	RMJ	Roots Medium Joint			15	J	08	04	0001	
43.1			RMJ	Roots Medium Joint			35	J	09	03	0002	
48.3		F01	RFJ	Roots Fine Joint				J	09	03		
48.3		F02	RMJ	Roots Medium Joint			15	J	08	04		
48.3			AMH	Manhole								SA2058
48.3			FH	End of Survey								

48.3 Ft **Total Length Surveyed**

Scores

Structural:	**Pipe Rating** 0	**Pipe Ratings Index** 0	**Quick Rating** 0000
O&M:	**Pipe Rating** 22	**Pipe Ratings Index** 1.8	**Quick Rating** 3517
Overall	**Pipe Rating** 22	**Pipe Ratings Index** 1.8	**Quick Rating** 3517

Notes

MH SA2057
Poured construction
Open pick holes

MH SA2058
Brick construction
Open pick holes
Roots and deterioration throughout
Bricks missing in adjustment area

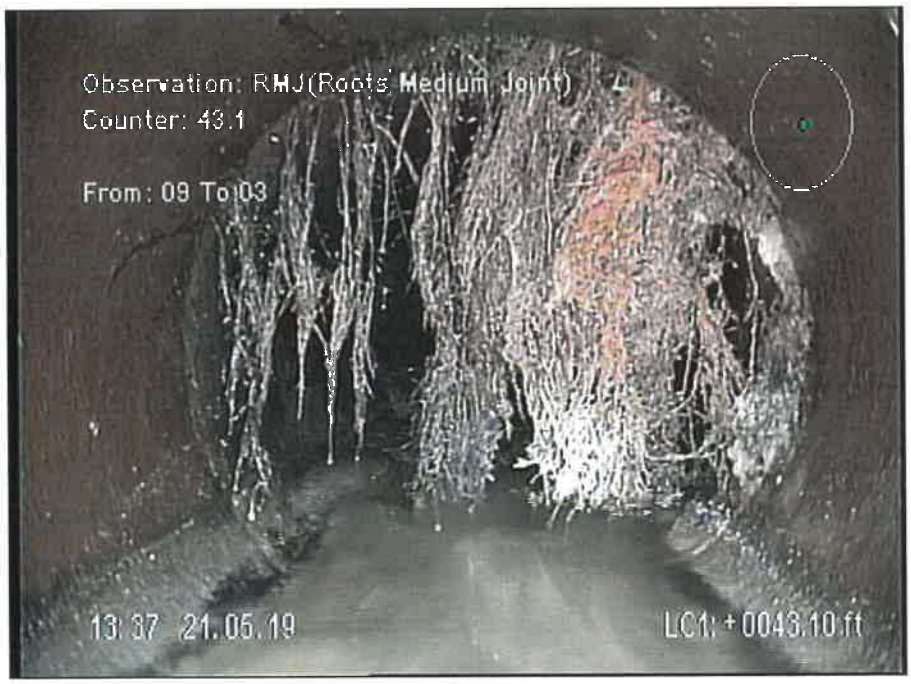
CD column indicates continuous defects:
S indicates start of defect
F indicates finish of defect
C indicates change in severity of defect

CCTV pictures of SA2057-SA2058 **for** Village of Newberry

Work Order	**Surveyed On** 2019/05/21	**Setup** 76
Street Name Charles St.		**Video** 19076
City Name Newberry	**Weather** Saturated	
Location		
From Manhole SA2057	**To Manhole** SA2058	**Direction** Downstream

Date: 2019/05/21 **Distance:** 29.0 Ft **Obs:** Roots Medium Joint

Comments:



Date: 2019/05/21 **Distance:** 43.1 Ft **Obs:** Roots Medium Joint

Comments:

Great Lakes TV Seal, Inc.
Phone:920-863-3663
Fax:920-863-3662

Tabular Report of PSR SA2058 8 for Village of Newberry

Setup 77	**Surveyor** Brett Healy	**Certificate #** U609-1884	**System Owner** Village of Newberry		
Drainage	**Survey Customer** Village of Newberry				
P/O #	**Date** 2019/05/21	**Time** 13:49	**Street** Charles St.		
City Newberry	**Further location details**				
Up SA2058	**Rim to invert** 6.30	**Grade to invert**	**Rim to grade** 6.25	Ft	
Down SA2059	**Rim to invert** 5.30	**Grade to invert**	**Rim to grade**	Ft	
Use Sanitary	**Direction** Down	**Flow control**	**Media No** 19076		
Shape Circular	**Height** 10 **Width**	ins **Preclean** J	**Date Cleaned**		
Material Vitrified Clay Pipe	**Joint length** 3.00 Ft	**Total length** 402.1 Ft	**Length Surveyed** 402.1	Ft	
Lining	**Year laid**	**Year rehabilitated**	**Weather** Saturated		
Purpose Maintenance Related	**Cat**		**Pressure**		
Additional info			Structural O & M Constructional Miscellaneous		
Location					
Project Newberry 19076			**Work Order**		
Northing	**Easting**		**Elevation**		
Coordinate System			**GPS Accuracy**		

Count	Video	CD	Code		In1	In2	%	Jnt	Fr	To	ImRef	Remarks
0.0			ST	Start of Survey								
0.0			AMH	Manhole								SA2058
0.0			MWL	Water Level			10					
5.2		S01	RFJ	Roots Fine Joint				J	08	04		
86.5			RMJ	Roots Medium Joint			15	J	09			
103.0			RMJ	Roots Medium Joint			10	J	09			
117.6			TBI	Tap Break-in Intruding	4.000	3.000			10		0001	
117.6			RMC	Roots Medium Connection			15		10			
124.8			MWL	Water Level			20					
139.3			RMJ	Roots Medium Joint			25	J	09	03	0002	
212.1			RMJ	Roots Medium Joint			10	J	09	03		
224.9			RMJ	Roots Medium Joint			10	J	09			
228.8		S02	RMJ	Roots Medium Joint			15	J	08	04		
274.8		F02	RMJ	Roots Medium Joint			15	J	08	04		
294.5			TB	Tap Break-in	4.000				12			DRIPPING
306.4		S03	RMJ	Roots Medium Joint			10	J	08	04		
324.6		F03	RMJ	Roots Medium Joint			10	J	08	04		
402.1		F01	RFJ	Roots Fine Joint				J	08	04		
402.1			AMH	Manhole								SA2059
402.1			FH	End of Survey								

402.1 **Ft** **Total Length Surveyed**

Tabular Report of PSR SA2058 8 **for** **Village of Newberry**

Setup	77	**Surveyor** Brett Healy		**Certificate #** U609-1884		**System Owner** Village of Newberry	
Drainage			**Survey Customer** Village of Newberry				
P/O #		**Date** 2019/05/21		**Time** 13:49		**Street** Charles St.	
City	Newberry		**Further location details**				
Up	SA2058		**Rim to invert** 6.30		**Grade to invert**	**Rim to grade** 6.25	**Ft**
Down	SA2059		**Rim to invert** 5.30		**Grade to invert**	**Rim to grade**	**Ft**
Use	Sanitary	**Direction** Down		**Flow control**		**Media No** 19076	
Shape	Circular	**Height** 10	**Width**	**ins**	**Preclean** J	**Date Cleaned**	
Material	Vitrified Clay Pipe		**Joint length** 3.00 **Ft**		**Total length** 402.1 **Ft**	**Length Surveyed** 402.1	**Ft**
Lining			**Year laid**	**Year rehabilitated**		**Weather** Saturated	
Purpose	Maintenance Related		**Cat**			**Pressure**	
Additional info					Structural O & M Constructional Miscellaneous		
Location							
Project	Newberry 19076				**Work Order**		
Northing			**Easting**		**Elevation**		
Coordinate System					**GPS Accuracy**		

Scores

Structural:	**Pipe Rating** 0	**Pipe Ratings Index** 0	**Quick Rating** 0000
O&M:	**Pipe Rating** 140	**Pipe Ratings Index** 1.4	**Quick Rating** 413B
Overall	**Pipe Rating** 140	**Pipe Ratings Index** 1.4	**Quick Rating** 413B

Notes

MH SA2058
Brick construction
Open pick holes
Roots and deterioration throughout
Bricks missing in adjustment area

MH SA2059
Brick construction
Open pick holes
Deterioration throughout

CD column indicates continuous defects:
S indicates start of defect
F indicates finish of defect
C indicates change in severity of defect

CCTV pictures of SA2058 8 **for** Village of Newberry

Work Order	**Surveyed On** 2019/05/21	**Setup** 77
Street Name Charles St.		**Video** 19076
City Name Newberry	**Weather** Saturated	
Location		
From Manhole SA2058	**To Manhole** SA2059	**Direction** Downstream

Date: 2019/05/21 **Distance:** 117.6 Ft **Obs:** Tap Break-in Intruding

Comments:

Date: 2019/05/21 **Distance:** 139.3 Ft **Obs:** Roots Medium Joint

Comments:

Great Lakes TV Seal, Inc.
Phone:920-863-3663
Fax:920-863-3662

Tabular Report of PSR SA2059 8 for Village of Newberry

Setup 78	**Surveyor** Brett Healy	**Certificate #** U609-1884	**System Owner** Village of Newberry		
Drainage	**Survey Customer** Village of Newberry				
P/O #	**Date** 2019/05/21	**Time** 14:06	**Street** Charles St.		
City Newberry	**Further location details**				
Up SA2059	**Rim to invert** 5.30	**Grade to invert**	**Rim to grade**	Ft	
Down SA2060	**Rim to invert** 6.80	**Grade to invert**	**Rim to grade**	Ft	
Use Sanitary	**Direction** Down	**Flow control**	**Media No** 19076		
Shape Circular	**Height** 10 **Width**	ins **Preclean** J	**Date Cleaned**		
Material Vitrified Clay Pipe	**Joint length** 3.00 Ft	**Total length** 408.4 Ft	**Length Surveyed** 408.4	Ft	
Lining	**Year laid**	**Year rehabilitated**	**Weather** Saturated		
Purpose Maintenance Related	**Cat**		**Pressure**		
Additional info		Structural O & M Constructional Miscellaneous			
Location					
Project Newberry 19076		**Work Order**			
Northing	**Easting**	**Elevation**			
Coordinate System		**GPS Accuracy**			

Count	Video		CD	Code		In1	In2	%	Jnt	Fr	To	ImRef	Remarks
0.0				ST	Start of Survey								
0.0				AMH	Manhole								SA2059
0.0				MWL	Water Level			10					
180.3				RFJ	Roots Fine Joint				J	03			
192.8				RFJ	Roots Fine Joint				J	03			
212.9				TB	Tap Break-in	4.000				12			DRIPPING
408.4				AMH	Manhole								SA2060
408.4				FH	End of Survey								

408.4 **Ft** **Total Length Surveyed**

Scores						
Structural:	**Pipe Rating** 0	**Pipe Ratings Index** 0	**Quick Rating** 0000
O&M:	**Pipe Rating** 2	**Pipe Ratings Index** 1	**Quick Rating** 1200
Overall	**Pipe Rating** 2	**Pipe Ratings Index** 1	**Quick Rating** 1200

Notes

MH SA2059
Brick construction
Open pick holes
Deterioration throughout

MH SA2060
Brick construction
Open pick holes
Deterioration throughout / Bricks missing
Casting 13" below grade (Located in grass)

Tabular Report of PSR SA2060 8 for Village of Newberry

Setup 79	**Surveyor** Brett Healy	**Certificate #** U609-1884	**System Owner** Village of Newberry		
Drainage	**Survey Customer** Village of Newberry				
P/O #	**Date** 2019/05/21	**Time** 14:19	**Street** Charles St.		
City Newberry	**Further location details**				
Up SA2060	**Rim to invert** 6.80	**Grade to invert**	**Rim to grade**	Ft	
Down SA2063	**Rim to invert** 6.20	**Grade to invert**	**Rim to grade**	Ft	
Use Sanitary	**Direction** Down	**Flow control**	**Media No** 19076		
Shape Circular	**Height** 10 **Width**	ins **Preclean** J	**Date Cleaned**		
Material Vitrified Clay Pipe	**Joint length** 3.00 Ft	**Total length** 440.0 Ft	**Length Surveyed** 440.0	Ft	
Lining	**Year laid**	**Year rehabilitated**	**Weather** Saturated		
Purpose Maintenance Related	**Cat**		**Pressure**		
Additional info		Structural O & M Constructional Miscellaneous			
Location					
Project Newberry 19076		**Work Order**			
Northing	**Easting**	**Elevation**			
Coordinate System		**GPS Accuracy**			

Count	Video		CD	Code		In1	In2	%	Jnt	Fr	To	ImRef	Remarks
0.0				ST	Start of Survey								
0.0				AMH	Manhole								SA2060
0.0				MWL	Water Level			10					
15.4				MWL	Water Level			30					
32.2				MWL	Water Level			10					
404.4				FC	Fracture Circumferential				J	10	12		
440.0				AMH	Manhole								SA2063
440.0				FH	End of Survey								

440.0 **Ft** **Total Length Surveyed**

Scores

Structural:	**Pipe Rating** 2	**Pipe Ratings Index** 2	**Quick Rating** 2100
O&M:	**Pipe Rating** 0	**Pipe Ratings Index** 0	**Quick Rating** 0000
Overall	**Pipe Rating** 2	**Pipe Ratings Index** 2	**Quick Rating** 2100

Notes

MH SA2060
Brick construction
Open pick holes
Deterioration throughout / Bricks missing
Casting 13" below grade (Located in grass)

MH SA2063
Brick construction
Open pick holes
Deterioration throughout

Tabular Report of PSR SA2063-SA2064A for Village of Newberry

Setup	80	**Surveyor**	Brett Healy	**Certificate #**	U609-1884	**System Owner**	Village of Newberry
Drainage		**Survey Customer**	Village of Newberry				
P/O #		**Date**	2019/05/21	**Time**	15:48	**Street**	Charles St.
City	Newberry	**Further location details**					

Up	SA2063	**Rim to invert**	6.20	**Grade to invert**		**Rim to grade**	6.30 Ft
Down	SA2064A	**Rim to invert**	5.80	**Grade to invert**		**Rim to grade**	0.00 Ft

Use	Sanitary	**Direction**	Down	**Flow control**		**Media No**	19076
Shape	Circular	**Height**	10	**Width**	ins	**Preclean** J	**Date Cleaned**
Material	Vitrified Clay Pipe	**Joint length**	3.00 Ft	**Total length**	148.6 Ft	**Length Surveyed**	148.6 Ft
Lining		**Year laid**		**Year rehabilitated**		**Weather**	Saturated
Purpose	Maintenance Related	**Cat**				**Pressure**	

Additional info						Structural	O & M Constructional
Location						Miscellaneous	
Project	Newberry 19076					**Work Order**	
Northing		**Easting**				**Elevation**	
Coordinate System						**GPS Accuracy**	

Count	Video		CD	Code		In1	In2	%	Jnt	Fr	To	ImRef	Remarks
0.0				ST	Start of Survey								
0.0				AMH	Manhole								SA2063
0.0				MWL	Water Level			10					
87.1			S01	RFJ	Roots Fine Joint				J	09	03		
103.9			S02	RMJ	Roots Medium Joint			10	J	09	03		
138.2				MWL	Water Level			55					
148.6			F01	RFJ	Roots Fine Joint				J	09	03		
148.6			F02	RMJ	Roots Medium Joint			10	J	09	03		
148.6				AMH	Manhole								BURIED MH / SA2064A
148.6				FH	End of Survey								

148.6 Ft **Total Length Surveyed**

Tabular Report of PSR SA2063-SA2064A for Village of Newberry

Setup	80	**Surveyor** Brett Healy		**Certificate #** U609-1884		**System Owner** Village of Newberry	
Drainage		**Survey Customer** Village of Newberry					
P/O #		**Date** 2019/05/21	**Time** 15:48	**Street** Charles St.			
City	Newberry	**Further location details**					
Up	SA2063	**Rim to invert** 6.20		**Grade to invert**		**Rim to grade** 6.30	Ft
Down	SA2064A	**Rim to invert** 5.80		**Grade to invert**		**Rim to grade** 0.00	Ft
Use	Sanitary	**Direction** Down		**Flow control**		**Media No** 19076	
Shape	Circular	**Height** 10	**Width**	ins	**Preclean** J	**Date Cleaned**	
Material	Vitrified Clay Pipe	**Joint length** 3.00 Ft		**Total length** 148.6 Ft		**Length Surveyed** 148.6	Ft
Lining		**Year laid**		**Year rehabilitated**		**Weather** Saturated	
Purpose	Maintenance Related	**Cat**				**Pressure**	
Additional info						Structural C & M Constructional Miscellaneous	
Location							
Project	Newberry 19076					**Work Order**	
Northing		**Easting**				**Elevation**	
Coordinate System						**GPS Accuracy**	

Notes

Scores

Structural:	**Pipe Rating** 0	**Pipe Ratings Index** 0	**Quick Rating** 0000
O&M:	**Pipe Rating** 39	**Pipe Ratings Index** 1.9	**Quick Rating** 391A
Overall	**Pipe Rating** 39	**Pipe Ratings Index** 1.9	**Quick Rating** 391A

Note: Manhole numbers on screen are incorrect / Screen should read MH SA2063 to MH SA2064A
We encountered a missing manhole while televising from MH SA2063 to MH SA2064
Designated the manhole as MH SA2064A

MH SA2063
Brick construction
Open pick holes
Deterioration throughout

MH SA2064A
Brick construction
Square concrete cover
Cover 4" below grade
No mortar between bricks / Bricks are shifted and loose
Invert is shifted with clay pipe protruding up catching debris
No bench

CD column indicates continuous defects:
S indicates start of defect
F indicates finish of defect
C indicates change in severity of defect

Tabular Report of PSR SA2064A 4 for Village of Newberry

Setup 81	**Surveyor** Brett Healy	**Certificate #** U609-1884	**System Owner** Village of Newberry		
Drainage	**Survey Customer** Village of Newberry				
P/O #	**Date** 2019/05/21	**Time** 16:18	**Street** Charles St.		
City Newberry	**Further location details**				
Up SA2064A	**Rim to invert** 5.80	**Grade to invert**	**Rim to grade** 0.00	Ft	
Down SA2064	**Rim to invert** 6.40	**Grade to invert**	**Rim to grade**	Ft	
Use Sanitary	**Direction** Down	**Flow control**	**Media No** 19076		
Shape Circular	**Height** 10 **Width**	ins **Preclean** J	**Date Cleaned**		
Material Vitrified Clay Pipe	**Joint length** 3.00 Ft	**Total length** 149.5 Ft	**Length Surveyed** 149.5	Ft	
Lining	**Year laid**	**Year rehabilitated**	**Weather** Saturated		
Purpose Maintenance Related	**Cat**		**Pressure**		
Additional info		Structural O & M Constructional Miscellaneous			
Location					
Project Newberry 19076		**Work Order**			
Northing	**Easting**	**Elevation**			
Coordinate System		**GPS Accuracy**			

Count	Video	CD	Code		In1	In2	%	Jnt	Fr	To	ImRef	Remarks
0.0			ST	Start of Survey								
0.0			AMH	Manhole								SA2064A
0.0			MWL	Water Level			20					
0.0			MGO	General Observation							0001	BRICKS IN MH LOOSE
4.5		S01	RFJ	Roots Fine Joint				J	08	04		
16.5			RPP	Repair Patch					12		0002	PATCHED HOLE
16.6			FM	Fracture Multiple					03	06	0003	
85.0			RMJ	Roots Medium Joint			20	J	09	03	0004	
104.8			RMJ	Roots Medium Joint			20	J	02			
149.5		F01	RFJ	Roots Fine Joint				J	08	04		
149.5			AMH	Manhole								SA2064
149.5			FH	End of Survey								

149.5 Ft **Total Length Surveyed**

Scores

Structural:	**Pipe Rating** 4	**Pipe Ratings Index** 4	**Quick Rating** 4100
O&M:	**Pipe Rating** 35	**Pipe Ratings Index** 1.1	**Quick Rating** 321D
Overall	**Pipe Rating** 39	**Pipe Ratings Index** 5.1	**Quick Rating** 4132

Notes

MH SA2064A
Brick construction
Square concrete cover
Cover 4" below grade
No mortar between bricks / Bricks are shifted and loose
Invert is shifted with clay pipe protruding up catching debris
No bench

MH SA2064
Brick construction
Square concrete cover
Cover 6" below grade
Heavy roots on bench

CD column indicates continuous defects:
S indicates start of defect
F indicates finish of defect
C indicates change in severity of defect

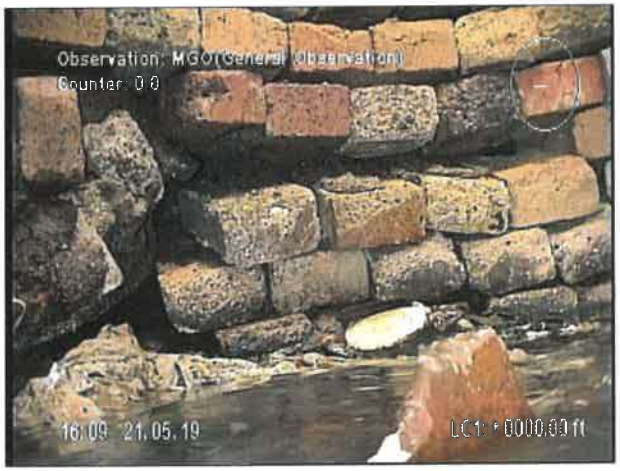
Great Lakes TV Seal, Inc.
Phone:920-863-3663
Fax:920-863-3662

CCTV pictures of SA2064A 4 **for** Village of Newberry

Work Order	**Video** 19076	**Surveyed On** 2019/05/21	**Direction** Downstream	**Setup** 81
Street Name Charles St.		**City Name** Newberry	**Weather** Saturated	
Location		**From Manhole** SA2064A	**To Manhole** SA2064	

Date: 2019/05/21
Distance: 0.0 Ft
Obs: General Observation

Comments:
BRICKS IN MH LOOSE

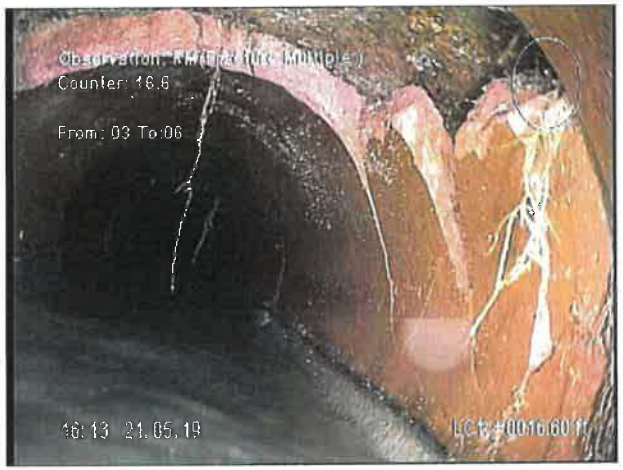


Date: 2019/05/21
Distance: 16.5 Ft
Obs: Repair Patch

Comments:
PATCHED HOLE

Date: 2019/05/21
Distance: 16.6 Ft
Obs: Fracture Multiple

Comments:



Date: 2019/05/21
Distance: 85.0 Ft
Obs: Roots Medium Joint

Comments: