

MH 5948-087  
 724 N. Mission Rd  
 Approx depth = 12.0 ft

MH 5948-086  
 657 N. Brookfield  
 Approx depth = 11.1 ft

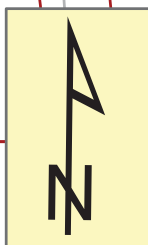
MH 5948-085  
 657 N. Brookfield  
 Approx depth = 11.1 ft

MH 5948-084  
 619 N. Brookfield  
 Approx depth = 10.02 ft

MH 5948-083  
 607 N. Brookfield  
 Approx depth = 10.2 ft

Install 817 lf of 8" Cured-in-Place Liner  
 from MH 5948-087 to MH 5948-083

**SITE 1**





## Video Inspection Master Report

1/4/2013

8:37 AM

US Structure: 5948-087                      724 N MISSION RD                      Date Insp: 7/11/2012                      Basin: E01H  
 DS Structure: 5948-086                      657 N BROOKFIELD ST                      Dir Televised: Upstream To Downstream

**Pipe Information**

Shape: Round                      Length Status:                      Project No. : H-039  
 Dia/Ht: 8                      Material: VCP                      Index:

Obs. #	VTR Counter	Distance	Location	Description	Rating	Ratings			Remain (gpm)
						Obsrvd (gpm)	Est. (gpm)	Struct Clean	
1		0.0	5948-087	US Manhole	1				
2		45.9	(service leaking 1 <sup>st</sup> joint outside of main)	Wye Service	2		707 N BROOKFIELD		
3		68.6		Roots	3				
4		70.0		Wye Service	2		716 N MISSION		
5		87.5		Broken Pipe	3				
6		88.9		PVC Break-In Conn	2		701 N BROOKFIELD		
7		89.7		Roots	3				
8		97.3		Break-In Conn	1		701 N BROOKFIELD		
9		111.1		Roots	2				
10		117.1		Roots	2				
11		119.2		Break-In Conn	2		706 N MISSION		
12		123.2		Roots	2				
13		125.8		PVC Break-In Conn	1		701 N BROOKFIELD		
14		138.5		Roots	2				
15		141.6		Roots	2				
16		144.5		Roots	3				
17		150.8		Broken Pipe	3				
18		151.7	(cracks all around the wye)	Wye Service	1		706 N MISSION		
19		164.5	(seal broken & letting in roots)	Wye Service	1				
20		167.7	(seal broken & letting in roots)	Wye Service	1				
21		220.8		Roots	2				
22		230.1		Roots	2				
23		233.3		Crack-Radial	3				
24		285.4		Sag begins	3				
25		288.6	(short dip)	Sag ends	1				
26		292.4	(invert is cracked / roots)	Crack-Radial	3				
27		298.1	5948-086	DS Manhole	2				



## Video Inspection Master Report

1/4/2013

8:37 AM

**US Structure:** 5948-086      **657 N BROOKFIELD ST**      **Date Insp:** 7/11/2012      **Basin:** E01H  
**DS Structure:** 5948-085      **657 N BROOKFIELD ST**      **Dir Televised:** Upstream To Downstream

**Pipe Information**

<b>Shape:</b> Round	<b>Length Status:</b>	<b>Project No. :</b> H-004
<b>Dia/Ht:</b> 8	<b>Material:</b> VCP	<b>Index:</b>
<b>Length:</b> 65.0	<b>Slope:</b> 0.415	<b>Surface:</b>

Obs. #	VTR Counter	Distance	Location	Description	Rating	Obsrvd (gpm)	Ratings		Remain (gpm)
							Est. (gpm)	Struct Clean	
1		0.0		US Manhole	1				
2		11.4		Crack-Horizontal	3				
3		21.3		Wye Service	1				
4		30.9		PVC Break-In Conn	1	642 N MISSION			
5		32.4		Crack-Horizontal	2				
6		36.6		Crack-Horizontal	2				
7		37.5		Roots	2				
8		41.2		Crack-Horizontal	3				
9		42.4		PVC Break-In Conn	2	657 N BROOKFIELD			
10		56.2		Broken Pipe	3				
11		59.0		Crack-Radial	2				
12		61.1 (heavy silt)		Debris	4				
		65.0		DS Manhole					

(pipe is cracked in all quadrants at manhole wall) (pipe needs lined for cracks and roots)



## Video Inspection Master Report

1/4/2013

8:37 AM

**US Structure:** 5948-085      **657 N BROOKFIELD ST**      **Date Insp:** 7/11/2012      **Basin:** E01H  
**DS Structure:** 5948-084      **619 N BROOKFIELD RD**      **Dir Televised:** Upstream To Downstream

**Pipe Information**

<b>Shape:</b> Round	<b>Length Status:</b>	<b>Project No. :</b> H-004
<b>Dia/Ht:</b> 8	<b>Material:</b> VCP	<b>Index:</b>
<b>Length:</b> 227.6	<b>Slope:</b> 0.390	<b>Surface:</b>

Obs. #	VTR Counter	Distance	Location	Description	Rating	Ratings			Remain (gpm)
						Obsrvd (gpm)	Est. (gpm)	Struct Clean	
1		0.0	5948-085	US Manhole	1				
2		10.9		Break-In Conn sealed off	1				
3		29.5		Wye Service	1				
4		40.1		Mat. Chngs to PVC	1				
5		42.5		PVC Break-In Conn	1	630 N MISSION			
6		46.1	(gapped joint)	Mat. Chngs back to VCP	2				
7		52.4		Crack-Horizontal	3				
8		55.7		Crack-Horizontal	3				
9		58.8		Crack-Horizontal	3				
10		61.7		Crack-Horizontal	3				
11		65.2		Crack-Horizontal	3				
12		70.7		Sag	4				
13		78.7		Sag	1				
14		79.7		Crack-Horizontal	3				
15		81.6		Break-In Conn	3	645 N BROOKFIELD			
16		82.8		Crack-Horizontal	2				
17		85.9		Crack-Horizontal	3				
18		89.1		Crack-Horizontal	3				
19		91.9		Crack-Horizontal	3				
20		104.9		Wye Service	1				
21		150.9		PVC Break-In Conn	1	618 N MISSION			
22		168.5		Wye Service	1				
23		175.8		Crack-Horizontal	3				
24		179.1		Crack-Horizontal	3				
25		198.1		Wye Service	1	631 N BROOKFIELD			
26		231.5	5948-084	DS Manhole	3				



# Video Inspection Master Report

1/4/2013

8:37 AM

US Structure: 5948-084      619 N BROOKFIELD RD      Date Insp: 7/11/2012      Basin: E01H  
 Dir Televised: Upstream To Downstream

DS Structure: 5948-083      607 N BROOKFIELD ST

**Pipe Information**

Shape: Round      Length Status:      Project No. : H-004  
 Dia/Ht: 8      Material: VCP      Index:  
 Length: 223.1      Slope: 0.404      Surface:

Obs. #	VTR Counter	Distance	Location	Description	Rating	Ratings			Remain (gpm)
						Obsrvd (gpm)	Est. (gpm)	Struct Clean	
1		0.0	5948-084	US Manhole	1				
2		0.1		Crack-Radial	3				
3		1.3	Joint	Offset	3				
4		1.4		Crack-Horizontal	3				
5		4.8		Crack-Horizontal	3				
6		7.9		Crack-Horizontal	3				
7		10.6		Crack-Horizontal	3				
8		13.2		Crack-Horizontal	2				
9		17.0		Crack-Horizontal	3				
10		18.8		Crack-Horizontal	3				
11		21.9		Crack-Horizontal	3				
12		24.6		Crack-Horizontal	3				
13		26.3		Break-In Conn	2	618 N MISSION			
14		26.3	(shifted pipe in crown)	Broken Pipe	5				
15		28.7		Crack-Horizontal	3				
16		31.0		Crack-Horizontal	3				
17		33.7		Crack-Horizontal	3				
18		36.1		Crack-Horizontal	4				
19		39.1	(invert is broken)	Crack-Horizontal	3				
20		45.3		Crack-Horizontal	3				
21		48.2		Crack-Horizontal	3				
22		51.4		Crack-Horizontal	3				
23		57.1		Crack-Horizontal	2				
24		63.9		Crack-Horizontal	3				
25		67.0		Crack-Horizontal	3				
26		69.3		Crack-Horizontal	3				
27		73.3		Crack-Horizontal	3				
28		75.7		Crack-Horizontal	3				
29		79.0		Crack-Horizontal	3				
30		81.6		Crack-Horizontal	3				
31		83.3		Crack-Horizontal	3				
32		90.6	(service full of roots)	Wye Service	2	619 N BROOKFIELD			
33		93.6		Wye Service	1				
34		102.4		Crack-Horizontal	3				



## Video Inspection Master Report

1/4/2013

8:37 AM

**US Structure:** 5948-084                      **619 N BROOKFIELD RD**                      **Date Insp:** 7/11/2012                      **Basin:** E01H  
**DS Structure:** 5948-083                      **607 N BROOKFIELD ST**                      **Dir Televised:** Upstream to Downstream

35	103.6		Crack-Horizontal	3	
36	108.5	(invert is broken)	Crack-Horizontal	3	
37	114.8		Crack-Horizontal	2	
38	117.3		Crack-Horizontal	3	
39	127.5		Crack-Horizontal	2	
40	135.8	(missing pipe around tap)	Break-In Conn	3	607 N BROOKFIELD
41	138.4	(shifted pipe / invert broken)	Crack-Horizontal	3	
42	139.7	<b>CAMERA STOPPED</b>	<b>Broken Pipe</b>	<b>5</b>	<b>SEE REVERSE SETUP BELOW:</b>

**US Structure:** 5948-084                      **619 N BROOKFIELD RD**                      **Date Insp:** 7/11/2012                      **Basin:** E01H  
**DS Structure:** 5948-083                      **607 N BROOKFIELD ST**                      **Dir Televised:** Downstream To Upstream

**REVERSE SETUP:**

Obs. #	VTR Counter	Distance	Location	Description	Rating	Ratings			Remain (gpm)
						Obsrvd (gpm)	Est. (gpm)	Struct Clean	
1		0.0	5948-083 / TV AGAINST FLOW	DS Manhole	1				
2		2.7		Roots (heavy)	3				
3		26.3	(roots in service)	Wye Service	2	606 N MISSION			
4		29.5	(roots in service)	Wye Service	2	607 N BROOKFIELD			
5		32.7		Crack-Horizontal	3				
6		36.1		Crack-Horizontal	3				
7		44.2	Joint	Offset	2				
8		47.6	Joint	Offset	3				
9		48.5		Crack-Horizontal	3				
10		56.5	Joint	Offset	2				
11		59.9	Joint	Offset	3				
12		60.7		Crack-Horizontal	2				
13		67.2		Crack-Horizontal	2				
14		71.8		Crack-Horizontal	3				
15		75.8	<b>CAMERA STOPPED</b>	<b>Broken Pipe</b>	<b>5</b>				
		81.0	(would get you to tap at 607 Brookfield as noted above)						

Sewer Maintenance worked on this to remove some clay tile. If we can get CIPP installed first, it would minimize the excavation needed to make repairs. Pipe is in very poor condition.