

MH # 5348-030
Approx depth = 6.2 ft

MH # 5348-027
Approx depth = 7.1 ft

MH # 5348-024
Approx depth = 5.9 ft

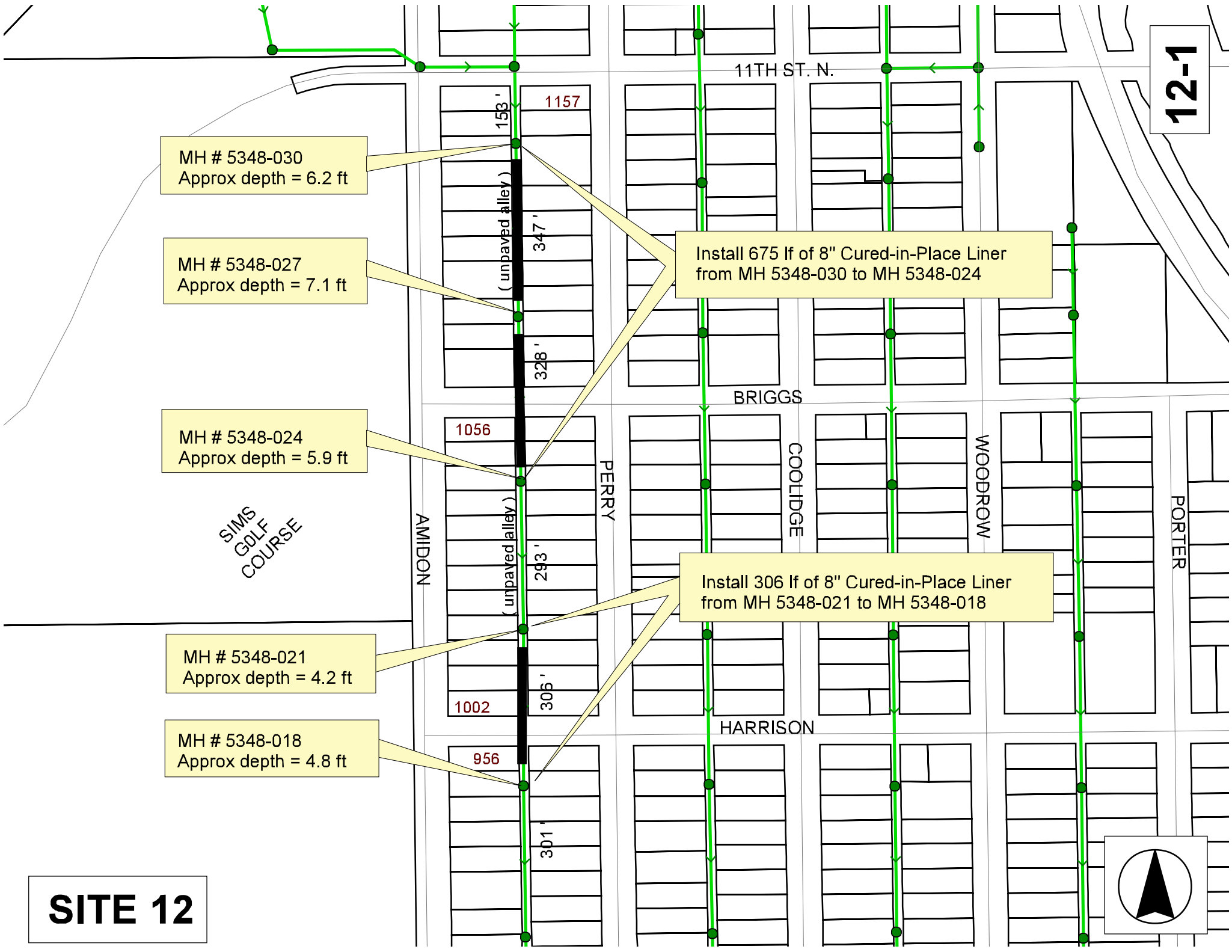
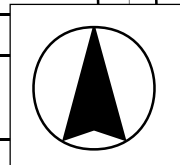
MH # 5348-021
Approx depth = 4.2 ft

MH # 5348-018
Approx depth = 4.8 ft

Install 675 lf of 8" Cured-in-Place Liner
from MH 5348-030 to MH 5348-024

Install 306 lf of 8" Cured-in-Place Liner
from MH 5348-021 to MH 5348-018

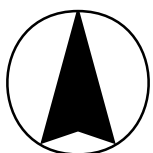
SITE 12





Aerial View

12-2



11TH

BRIGGS

AMIDON

PERRY

HARRISON

Television Inspection Master Report

8/6/2007
3:01:16PM

US Manhole: 5348-030
DS Manhole: 5348-027

1146 N AMIDON AVE
1122 N AMIDON AVE

Date Insp: 2/13/2007
Dir Televised: Upstream To Downstream

Basin: C03E

Pipe Information

Shape: Round Length Status: Project No.: B-229
Dia/Ht Width: 8 0 Material: VCP Index:
Length: 347.2 Slope: 0.228 Surface: Rear Easement

Inspection Information

Crew: 690 Percent Full: Tape ID: DVD #0248
Weather: Rainy Purpose: TV Existing Line Counter Start:
Surface Cond: Out Buildings & Trees Flow: N/A Counter Stop:

Obs. #	VTR Counter Svc. Address	Distance	Location	Description	Obs Rating	Obsrvd (gpm)	Est. (gpm)	Ratings Struct	Clean	Remain (gpm)
1		0.0	US Manhole	5348-030	2		0.000	0	0	0.000
2		5.6	Upper Left	MISSING TILE IN MH HOLDING BACK WATER. Crack-Radial	2		0.002	2	0	0.002
3		8.1	Lower Left	Crack-Radial	3		0.004	5	0	0.004
4		10.4	Upper Left	Crack-Radial	3		0.004	5	0	0.004
5		13.0	Lower Left	Crack-Radial	2		0.002	2	0	0.002
6		13.5	West	Wye Service 4" Clay Wye Connection	1		0.000	0	0	0.000
7		15.7	Upper Left	Crack-Radial	2		0.002	2	0	0.002
8		16.1	East	Wye Service 4" Clay Wye Connection	2		0.000	0	0	0.000
9		17.0	West	Break-In Conn 4" Break In Connection	4		0.008	60	0	0.008
10	1146 N AMIDON	18.4	East	Wye Service 4" Clay Wye Connection / roots	1		0.000	0	0	0.000
11	1147 N PERRY	20.4	Crown	Crack-Radial	2		0.002	2	0	0.002
12		20.4	Joint	Roots	3		0.008	5	8	0.008
13		28.0	Upper Right	Crack-Radial	3		0.004	5	0	0.004
14		38.2	West	Wye Service 4" Clay Wye Connection	1		0.000	0	0	0.000
15		40.8	East	Wye Service 4" Clay Wye Connection	1		0.000	0	0	0.000
16	1147 N PERRY	45.5	East	Break-In Conn 4" Break In Connection	3		0.004	2	0	0.004
17		50.4	Upper Left	Crack-Radial	2		0.002	2	0	0.002
18		53.0	Upper Left	Crack-Radial	2		0.002	2	0	0.002
19		55.7	West	Break-In Conn 4" Break In Connection	3		0.004	2	0	0.004
20	1142 N AMIDON	59.6	Upper Right	Crack-Radial	2		0.002	2	0	0.002
21		62.6	West	Wye Service 4" Clay Wye Connection	1		0.000	0	0	0.000
22		65.2	East	Wye Service 4" Clay Wye Connection	1		0.000	0	0	0.000
23		72.1	Upper Right	Crack-Radial	2		0.002	2	0	0.002
24		74.5	Upper Left	Crack-Radial	2		0.002	2	0	0.002
25		84.4	Upper Left	Crack-Radial	3		0.004	5	0	0.004
26		87.1	Upper Left	Broken Pipe	4		0.030	78	0	0.030
27		87.5	West	Wye Service 4" Clay Wye Connection	1		0.000	0	0	0.000
28	1137 N PERRY	89.8	East	Wye Service 4" Clay Wye Connection	1		0.000	0	0	0.000

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Television Inspection Master Report

8/6/2007
3:01:16PM

US Manhole: 5348-030 1146 N AMIDON AVE Date Insp: 2/13/2007 Basin: C03E
DS Manhole: 5348-027 1122 N AMIDON AVE Dir Televised: Upstream To Downstream

29	94.5	Upper Right	Broken Pipe	3	0.010	60	0	0.010
30	99.2	Crown	Broken Pipe	3	0.010	60	0	0.010
31	104.4	Lower Left	Crack-Radial	2	0.002	2	0	0.002
32	112.3	West	Wye Service	1	0.000	0	0	0.000
			4" Clay Wye Connection			SEALED OFF		
33	114.3	Lower Left	Crack-Radial	3	0.004	5	0	0.004
34	114.5	East	Wye Service	1	0.000	0	0	0.000
			4" Clay Wye Connection					
		1137 N PERRY						
35	119.7	West	Wye Service	4	0.000	60	0	0.000
			4" Clay Wye Connection			NEEDS REPAIR		
		1138 N AMIDON						
36	121.6	Crown	Crack-Radial	2	0.002	2	0	0.002
37	124.8	Upper Left	OH	1	0.000	0	0	0.000
38	134.1	Lower Left	Crack-Radial	2	0.002	2	0	0.002
39	136.9	Upper Left	Broken Pipe	2	0.008	44	0	0.008
40	136.9	West	Wye Service	1	0.000	0	0	0.000
			4" Clay Wye Connection			SEALED OFF		
41	139.1	Lower Left	Crack-Radial	4	0.008	10	0	0.008
42	139.6	East	Wye Service	1	0.000	0	0	0.000
			4" Clay Wye Connection			SEALED OFF		
43	141.5	Upper Left	Broken Pipe	3	0.010	60	0	0.010
44	151.4	Upper Left	Crack-Radial	2	0.002	2	0	0.002
45	157.8	West	Break-In Conn	4	0.008	60	0	0.008
			4" Break In Connection			NEEDS REPAIR (may need replaced later)		
46	161.8	West	Wye Service	1	0.000	0	0	0.000
			4" Clay Wye Connection			SEALED OFF		
47	164.1	East	Wye Service	1	0.000	0	0	0.000
			4" Clay Wye Connection			SEALED OFF, NEEDS RESEALED		
48	166.4	Crown	Crack-Radial	2	0.002	2	0	0.002
49	169.2	East	Break-In Conn	3	0.004	2	0	0.004
			4" Break In Connection					
		1135 N PERRY						
50	183.8	Upper Left	Crack-Radial	2	0.002	2	0	0.002
51	186.7	West	Wye Service	1	0.000	0	0	0.000
			4" Clay Wye Connection			ROOTS		
		1132 N AMIDON						
52	187.8	Wye Service	Roots	4	0.010	10	25	0.010
		1132 N AMIDON / ball of roots inside the service						
53	188.5	Upper Left	Crack-Radial	3	0.004	5	0	0.004
54	189.1	East	Wye Service	1	0.000	0	0	0.000
			4" Clay Wye Connection			SEALED OFF		
55	191.2	Upper Right	Broken Pipe	4	0.030	78	0	0.030
56	203.3	Lower Left	Crack-Radial	2	0.002	2	0	0.002
57	205.9	Upper Left	Crack-Radial	3	0.004	5	0	0.004
58	211.2	West	Wye Service	1	0.000	0	0	0.000
			4" Clay Wye Connection			SEALED OFF		
59	213.3	Upper Left	Crack-Radial	2	0.002	2	0	0.002
60	213.7	East	Wye Service	1	0.000	0	0	0.000
			4" Clay Wye Connection					
		1127 N PERRY						
61	215.9	Upper Left	Crack-Radial	3	0.004	5	0	0.004

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Television Inspection Master Report

8/6/2007
3:01:16PM

US Manhole: 5348-030
DS Manhole: 5348-027

1146 N AMIDON AVE
1122 N AMIDON AVE

Date Insp: 2/13/2007
Dir Televised: Upstream To Downstream

Basin: C03E

62	230.6	Lower Left	Crack-Radial	3	0.004	5	0	0.004
63	233.2	Lower Left	Crack-Radial	3	0.004	5	0	0.004
64	233.6	Upper Left	OH	3	0.003	0	0	0.003
65	235.9	West	Wye Service	1	0.000	0	0	0.000
4" Clay Wye Connection				SEALED OFF, NEEDS RESEALED				
66	238.4	East	Wye Service	1	0.000	0	0	0.000
1121 N PERRY				4" Clay Wye Connection / offset 1 st joint outside of main pipe				
68	240.9	Upper Left	Crack-Radial	4	0.008	10	0	0.008
69	245.8	Upper Left	Crack-Radial	2	0.002	2	0	0.002
70	248.4	Upper Left	Crack-Radial	2	0.002	2	0	0.002
71	255.7	Lower Left	Broken Pipe	3	0.010	60	0	0.010
72	261.0	West	Wye Service	1	0.000	0	0	0.000
4" Clay Wye Connection				SEALED OFF				
73	263.5	East	Wye Service	1	0.000	0	0	0.000
4" Clay Wye Connection				SEALED OFF				
74	268.1	Upper Left	Crack-Radial	3	0.004	5	0	0.004
75	278.0	Upper Left	Crack-Radial	3	0.004	5	0	0.004
76	285.8	West	Wye Service	1	0.000	0	0	0.000
1122 N AMIDON				4" Clay Wye Connection				
77	288.4	East	Wye Service	1	0.000	0	0	0.000
4" Clay Wye Connection				SEALED OFF				
78	297.8	Upper Left	Crack-Radial	4	0.008	10	0	0.008
79	310.6	Lower Left	Crack-Radial	2	0.002	2	0	0.002
80	311.0	West	Break-In Conn	3	0.004	2	0	0.004
1114 N AMIDON				4" Break In Connection				
81	313.4	East	Wye Service	1	0.000	0	0	0.000
1115 N PERRY				4" Clay Wye Connection / offset 1 st joint outside of main				
83	315.7	Upper Left	Crack-Radial	3	0.004	5	0	0.004
84	335.9	West	Wye Service	1	0.000	0	0	0.000
4" Clay Wye Connection				SEALED OFF				
85	338.2	Crown	Crack-Radial	2	0.002	2	0	0.002
86	338.4	East	Wye Service	1	0.000	0	0	0.000
4" Clay Wye Connection				SEALED OFF				
87	340.5	Lower Right	Debris	4	0.000	0	25	0.000
88	341.1	Invert	Broken Pipe	4	0.030	78	0	0.030
89	343.3	DS Manhole	5348-027	4	0.000	0	0	0.000

12-5

Television Inspection Master Report

8/6/2007
3:01:16PM

US Manhole: 5348-027
DS Manhole: 5348-024

1122 N AMIDON AVE
1046 N AMIDON AVE

Date Insp: 2/13/2007
Dir Televised: Upstream To Downstream

Basin: C03E

Pipe Information

Shape: Round Length Status: Project No.: B-229
Dia/Ht Width: 8 0 Material: VCP Index:
Length: 328.4 Slope: 0.345 Surface: Alley Unpaved

Inspection Information

Crew: 690 Percent Full: Tape ID: DVD #0248
Weather: Rainy Purpose: TV Existing Line Counter Start:
Surface Cond: N/A Flow: Normal Flow Counter Stop:

Obs. #	VTR Counter Svc. Address	Distance	Location	Connection type:	Description	Obs Rating	Obsrvd (gpm)	Est. (gpm)	Ratings Struct	Clean	Remain (gpm)
1		0.0	US Manhole		5348-027	1		0.000	0	0	0.000
2		2.6	Lower Left		Crack-Horizontal	2		0.002	2	0	0.002
3		4.7	Joint		Roots	3		0.008	5	8	0.008
4		5.1	Upper Left		Crack-Radial	2		0.002	2	0	0.002
5		7.3	Joint		Roots	2		0.004	2	4	0.004
6		7.5	Crown		Crack-Radial	3		0.004	5	0	0.004
7		17.6	Upper Left		Crack-Radial	2		0.002	2	0	0.002
8		17.8	East		Break-In Conn	4		0.008	60	0	0.008
	1111 N PERRY			4" Break In Connection					NEEDS REPAIR / prob. needs replaced later		
9		19.0	West		Wye Service	1		0.000	0	0	0.000
				4" Clay Wye Connection					SEALED OFF, NEEDS RESEALED		
10		20.0	Crown		Crack-Radial	3		0.004	5	0	0.004
11		20.3	East		Wye Service	1		0.000	0	0	0.000
				4" Clay Wye Connection					SEALED OFF, NEEDS RESEALED		
12		22.6	Upper Left		Crack-Radial	3		0.004	5	0	0.004
13		24.9	Upper Left		Crack-Radial	3		0.004	5	0	0.004
14		29.8	Invert		Crack-Radial	4		0.008	10	0	0.008
15		32.5	Upper Right		Crack-Radial	3		0.004	5	0	0.004
16		37.8	Upper Left		Broken Pipe	3		0.010	60	0	0.010
17		42.7	West		Break-In Conn	4		0.008	60	0	0.008
	1112 N AMIDON			4" Break In Connection					TO BE REPLACED BY SEWER MAINTENANCE		
18		45.2	East		Break-In Conn	2		0.002	0	0	0.002
	1105 N PERRY			4" Break In Connection							
19		45.3	Upper Left		Crack-Radial	3		0.004	5	0	0.004
20		47.7	Upper Left		Broken Pipe	2		0.008	44	0	0.008
21		62.7	Lower Left		Crack-Radial	3		0.004	5	0	0.004
22		68.2	West		Wye Service	1		0.000	0	0	0.000
				4" Clay Wye Connection					SEALED OFF		
23		70.4	Upper Left		Crack-Radial	3		0.004	5	0	0.004
24		70.9	East		Wye Service	1		0.000	0	0	0.000
				4" Clay Wye Connection					SEALED OFF		
25		75.3	Upper Left		Crack-Radial	3		0.004	5	0	0.004
26		85.3	Lower Left		Broken Pipe	2		0.008	44	0	0.008
27		93.2	Crown		Crack-Radial	2		0.002	2	0	0.002
28		93.4	West		Break-In Conn	2		0.002	0	0	0.002
	1100 N AMIDON			4" Break In Connection							
29		95.4	Upper Right		Crack-Radial	2		0.002	2	0	0.002
30		95.5	Upper Right		Broken Pipe	5		0.060	100	0	0.060
	1103 N PERRY			4" Break In Connection					/ TO BE REPLACED BY SEWER MAINTENANCE / LARGE CAVITY, NO CONN PRESENT		
32		97.7	Crown		Crack-Radial	2		0.002	2	0	0.002

12-6

Television Inspection Master Report

8/6/2007
3:01:16PM

US Manhole: 5348-027 1122 N AMIDON AVE Date Insp: 2/13/2007 Basin: C03E
DS Manhole: 5348-024 1046 N AMIDON AVE Dir Televised: Upstream To Downstream

33	100.3	Lower Left	Crack-Radial	2	0.002	2	0	0.002
34	100.9	Upper Left	OH	1	0.000	0	0	0.000
35	103.1	Upper Left	Crack-Radial	2	0.002	2	0	0.002
36	110.6	Upper Left	Crack-Radial	2	0.002	2	0	0.002
37	118.4	West	Wye Service	1	0.000	0	0	0.000
			4" Clay Wye Connection		SEALED OFF			
38	120.6	Upper Left	Crack-Radial	2	0.002	2	0	0.002
39	120.8	East	Wye Service	1	0.000	0	0	0.000
			4" Clay Wye Connection		SEALED OFF			
40	123.1	Crown	Broken Pipe	3	0.010	60	0	0.010
41	158.6	Crown	Crack-Radial	2	0.002	2	0	0.002
42	174.0	Upper Left	Crack-Radial	3	0.004	5	0	0.004
43	186.8	Upper Left	Crack-Radial	3	0.004	5	0	0.004
44	196.7	Upper Right	Crack-Radial	2	0.002	2	0	0.002
45	201.8	Upper Right	Crack-Radial	2	0.002	2	0	0.002
46	204.5	Upper Left	Crack-Horizontal	2	0.002	2	0	0.002
47	207.1	Upper Left	Crack-Radial	3	0.004	5	0	0.004
48	209.7	Upper Left	Crack-Radial	3	0.004	5	0	0.004
49	212.5	West	Wye Service	1	0.000	0	0	0.000
			4" Clay Wye Connection		SEALED OFF			
50	214.9	East	Wye Service	3	0.000	2	0	0.000
			4" Clay Wye Connection		CONN CRACKED / TO BE REPLACED BY SEWER MAINT.			
51	217.2	Upper Left	Broken Pipe	3	0.010	60	0	0.010
52	217.5	Upper Left	OH	1	0.000	0	0	0.000
53	219.6	Upper Left	Crack-Radial	2	0.002	2	0	0.002
54	229.6	Upper Left	Crack-Radial	2	0.002	2	0	0.002
55	237.3	Crown	Crack-Radial	3	0.004	5	0	0.004
56	237.7	West	Wye Service	2	0.000	0	0	0.000
			4" Clay Wye Connection / ROOTS					
57	239.9	East	Wye Service	1	0.000	0	0	0.000
			4" Clay Wye Connection		SEALED OFF			
58	257.4	Upper Left	Crack-Radial	3	0.004	5	0	0.004
59	262.8	West	Wye Service	1	0.000	0	0	0.000
			4" Clay Wye Connection					
60	265.3	East	Wye Service	1	0.000	0	0	0.000
			4" Clay Wye Connection		ROOTS			
61	267.5	Lower Left	Crack-Radial	2	0.002	2	0	0.002
62	270.1	Upper Left	Crack-Radial	3	0.004	5	0	0.004
63	288.2	Lower Left	Crack-Radial	2	0.002	2	0	0.002
64	288.3	West	Wye Service	1	0.000	0	0	0.000
			4" Clay Wye Connection		SEALED OFF			
65	290.8	East	Wye Service	1	0.000	0	0	0.000
			4" Clay Wye Connection		SEALED OFF			
66	300.7	Upper Right	Crack-Radial	3	0.004	5	0	0.004
67	308.5	Upper Right	Crack-Radial	2	0.002	2	0	0.002
68	313.9	West	Break-In Conn	1	0.001	0	0	0.001
			4" Predco Saddle / PVC SERVICE					
69	316.4	East	Wye Service	3	0.000	2	0	0.000
			4" Clay Wye Connection		CONN CRACKED INSIDE			
70	324.9	DS Manhole	5348-024	3	0.000	0	0	0.000

Television Inspection Master Report

8/6/2007
3:01:16PM

US Manhole: 5348-021 1018 N AMIDON AVE Date Insp: 5/24/2005 Basin: C03E
 DS Manhole: 5348-018 1919 W HARRISON ST Dir Televised: Upstream To Downstream

Pipe Information

Shape: Round Length Status: Project No.: B-229
 Dia/Ht Width: 8 Material: VCP Index:
 Length: 306.6 Slope: 0.108 Surface:
 Pipe Sec Length: Comment: POINT REPAIR BY SEWER MAINTENANCE FROM 4' TO 12'5" SOUTH OF MH 021. WEST CONNECTION AT 5' AND EAST CONNECTION AT 6'. WORK COMPLETED 08-30-2005 TGC ##### WYE CONNECTION REPAIRED BY SEWER MAINTENANCE AT 83' SOUTH OF MH 021. WORK COMPLETED 08-31-2005 TGC ##### POINT REPAIR BY SEWER MAINTENANCE FROM 6' TO 36' NORTH OF MH 018. EAST CONNECTION AT 8', WEST CONNECTION AT 10', WEST CONNECTION AT 34' AND EAST CONNECTION AT 35'. THESE MEASEURENTS ARE FROM THE DOWNSTREAM MANHOLE. WORK COMPLETED 08-31-2005 TGC #####

Inspection Information

Crew: 692 Percent Full: 10 Tape ID: 4779
 Weather: Sunny Purpose: TV Existing Line Counter Start: 0
 Surface Cond: Trees & Fences Flow: Normal Flow Counter Stop:

Obs. #	VTR Counter Comment	Distance	Location	Description	Rating	Obsrvd (gpm)	Est. (gpm)	Ratings Struct	Clean	Remain (gpm)
1		0.0	US Manhole 5348-021				0.000	0	0	
2		8.0	Quad 1 / U-Rt	Broken Pipe	2		0.008	44	0	0.008
3		9.0	West	Wye Service	2		0.000	0	0	0.000
	1018 Amidon									
4		10.0	Quad 4 / U-Lt	Crack-Radial	3		0.004	5	0	0.004
5		12.0	East	Wye Service	2		0.000	0	0	0.000
	1017 Perry									
6		15.0	Quad 3 / L-Lt	Crack-Horizontal	3		0.004	5	0	0.004
7		17.0	Joint	Roots	2		0.004	2	4	0.004
8		18.0	Crown	Broken Pipe	3		0.010	60	0	0.010
9		23.0	Joint	Offset	3		0.010	20	0	0.010
10		34.0	West	Wye Service	1		0.000	0	0	0.000
	1010 Amidon									
11		37.0	East	Wye Service	1		0.000	0	0	0.000
	1101 Perry									
12		59.0	West	Wye Service / sealed off			0.000	0	0	
13		62.0	East	Wye Service / sealed off			0.000	0	0	
14		63.0	Crown	Crack-Radial	3		0.004	5	0	0.004
15		73.0	Crown	Broken Pipe	2		0.008	44	0	0.008
16		79.0	Quad 2 / L-Rt	Crack-Radial	3		0.004	5	0	0.004
17		85.0	West	Wye Service	5		0.000	400	0	0.000
	1006 Amidon									
18		87.0	East	Wye Service / sealed off			0.000	0	0	
19		95.0	East	Wye Service	1		0.000	0	0	0.000
	1007 Perry									
20		105.0	Joint	Offset	3		0.010	20	0	0.010
21		135.0	West	Wye Service	1		0.000	0	0	0.000
	1002 Amidon									

12-8

Television Inspection Master Report

8/6/2007
3:01:16PM

US Manhole: 5348-021 1018 N AMIDON AVE Date Insp: 5/24/2005 Basin: C03E
DS Manhole: 5348-018 1919 W HARRISON ST

22	138.0	East	Wye Service / sealed off		0.000	0	0		
23	141.0	Quad 1 / U-Rt	Crack-Radial	3	0.004	5	0	0.004	
24	161.0	West	Wye Service / sealed off		0.000	0	0		
25	163.0	East	Break-In Conn	1	0.001	0	0	0.001	
1001 Perry									
26	165.0	Crown	Broken Pipe	3	0.010	60	0	0.010	
27	192.0	Quad 3 / L-Lt	Crack-Horizontal		0.000	0	0		
28	205.0	Joint	Offset	3	0.010	20	0	0.010	
29	246.0	Quad 4 / U-Lt	Crack-Radial	3	0.004	5	0	0.004	
30	253.0	Quad 1 / U-Rt	Crack-Radial	2	0.002	2	0	0.002	
31	258.0	Crown	Broken Pipe	2	0.008	44	0	0.008	
32	259.0	Invert	Broken Pipe	3	0.010	60	0	0.010	
33	260.0	Crown	Broken Pipe	4	0.030	78	0	0.030	
34	265.0	Quad 4 / U-Lt	Crack-Horizontal	3	0.004	5	0	0.004	
35	268.0	West	Wye Service	1	0.000	0	0	0.000	
956 Amidon									
36	270.0	West	Break-In Conn	2	0.002	0	0	0.002	
956 Amidon									
37	271.0	East	Break-In Conn	1	0.001	0	0	0.001	
957 Perry									
38	272.0	Crown	Broken Pipe	2	0.008	44	0	0.008	
39	273.0	Camera Lens Submerge			0.000	0	0		
40	274.0	Joint	PVC begins	1	0.000	0	0	0.000	
41	276.0	Joint	PVC ends	1	0.000	0	0	0.000	
42	280.0	Crown	Broken Pipe	3	0.010	60	0	0.010	
43	287.0	Crown	Broken Pipe	5	0.060	100	0	0.060	
44	289.0	Crown	Broken Pipe	1	0.004	30	0	0.004	
45	296.0	East	Wye Service	1	0.000	0	0	0.000	
46	298.0	Camera Lens Emerged			0.000	0	0		
953 Perry									
47	306.0	DS Manhole 5348-018		1	0.000	0	0	0.000	

All bad connections and the sag were repaired by Sewer Maintenance.
Pipe should be ready for liner installation.

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