

Install 754 lf of 8" Cured-in-Place Liner from MH 5747-692 to MH 5747-686

MH 5747-686
On side of hill
Approx depth = 10.0 ft

MH 5747-688
401 N. Vassar
Depth not measured

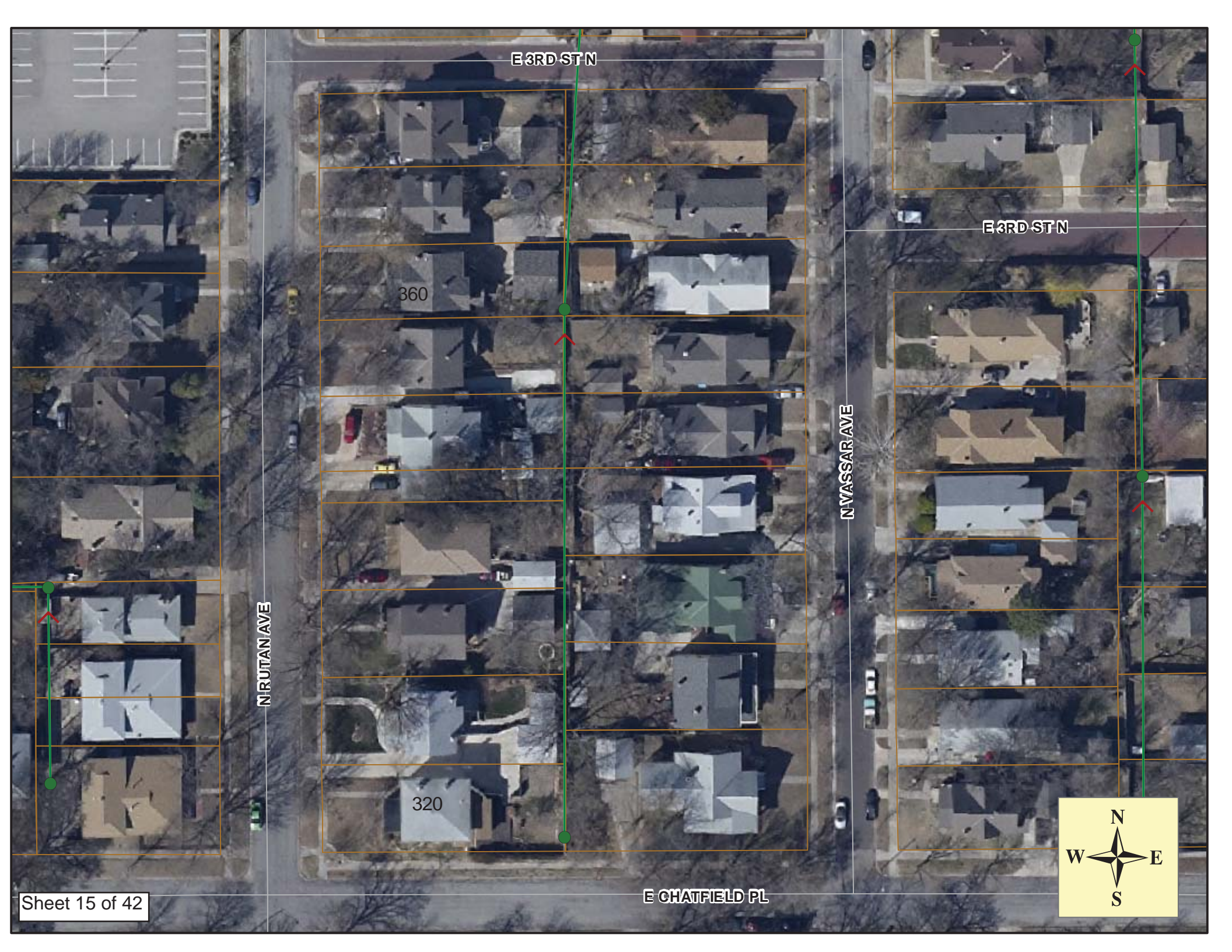
MH 5747-690
360 N. Rutan
Depth not measured

MH 5747-692
320 N. Rutan
Approx depth = 8.1 ft

SITE 4

Sheet 14 of 42





E 3RD ST N

E 3RD ST N

N RUTAN AVE

N VASSAR AVE

E CHATFIELD PL

360

320



E CENTRAL AVE

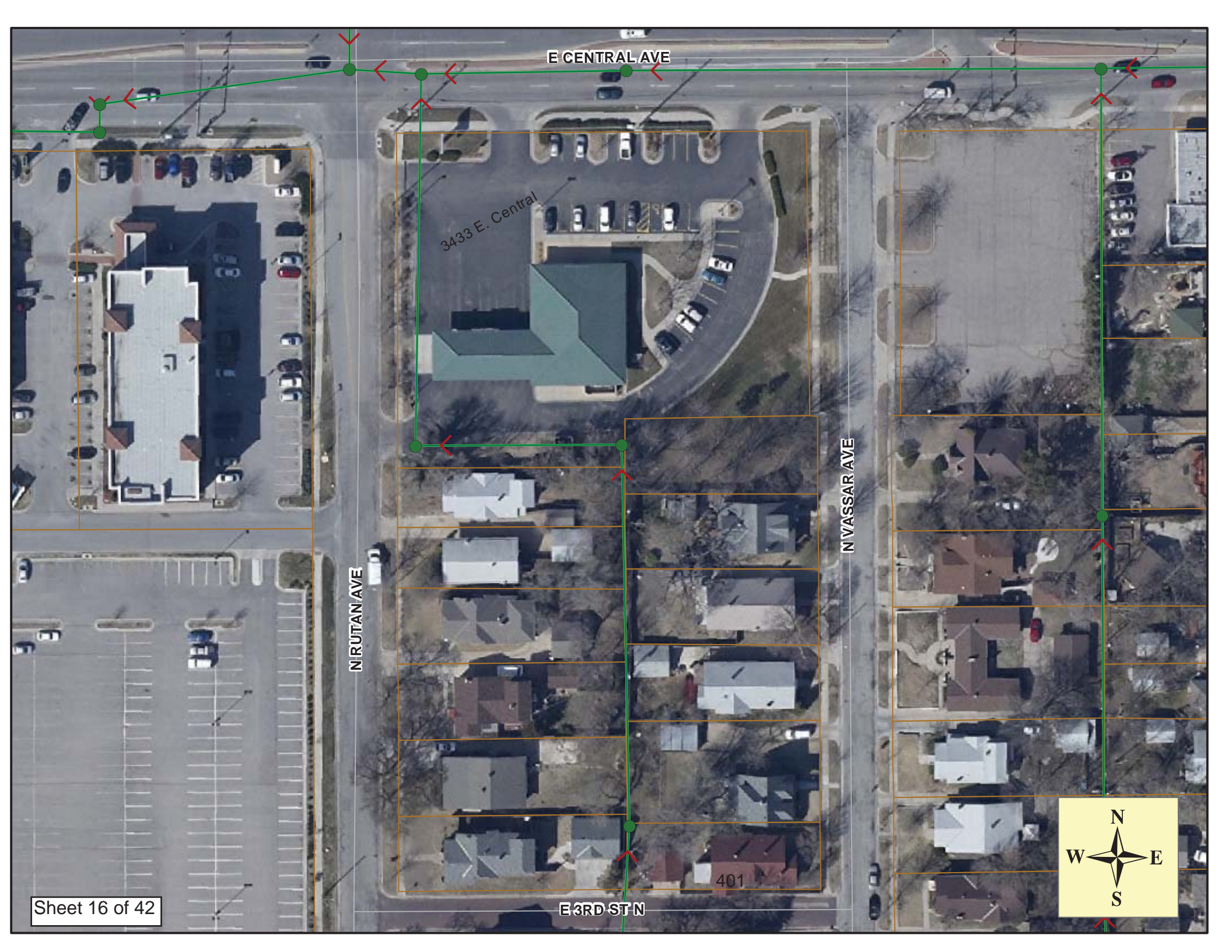
3433 E. Central

N VASSAR AVE

N RUTAN AVE

E 3RD STN

401



US Structure: 5747-692 320 N RUTAN ST Date Insp: 4/29/2011 Basin: EC02A
 DS Structure: 5747-690 363 N VASSAR Dir Televised: Upstream To Downstream

Pipe Information

Shape: Round Length Status: Project No. : C-114
 Dia/Ht: 8 Material: VCP Index:
 Length: 302.0 Slope: 0.699 Surface:

Inspection Information

Crew: 692 Percent Full: Tape ID: DVD #0648

Obs. #	VTR Counter	Distance	Location	Description	Rating	Obsrvd (gpm)	Est. (gpm)	Ratings Struct Clean	Remain (gpm)
1		0.0		5747-692 US Manhole	1				
2		8.6		Sealed Off Wye	1				
3		11.3		Sealed Off Wye	1				
4		23.0	333 N VASSAR	Break-In Conn	2				
5		25.3	320 N RUTAN	Wye Service	1				
6		27.1		Crack-Horizontal	1				
7		40.8		Crack-Horizontal	2				
8		42.6		Crack-Horizontal	2				
9		46.4		Sealed Off Wye	1				
10		48.1		Sealed Off Wye	1				
11		57.6		Crack-Horizontal	3				
12		60.7		Crack-Horizontal	2				
13		65.1		Crack-Horizontal	3				
14		71.5		Sealed Off Wye	1				
15		71.9	335 N VASSAR	Break-In Conn	1				
16		73.0	324 N RUTAN	Wye Service	1				
17		75.2		Crack-Horizontal	2				
18		95.5		Crack-Radial	2				
19		96.9		Sealed Off Wye	1				
20		99.6	328 N RUTAN	Wye Service	1				
21		105.2		Roots	2				
22		107.9		Roots	2				
23		117.7		Roots	2				
24		120.5		Roots	2				
25		122.2		Sealed Off Wye	2				
26		123.2		Roots	3				
27		124.7	330 N RUTAN	Wye Service	4				
28		141.0		Crack-Horizontal	2				
29		143.6		Crack-Horizontal	2				

US Structure: 5747-692 320 N RUTAN ST Date Insp: 4/29/2011 Basin: EC02A
 DS Structure: 5747-690 363 N VASSAR Dir Televised: Upstream To Downstream

30	146.6	345 N VASSAR	4	Break-In Conn
31	148.6		3	Crack-Radial
32	150.0		1	Sealed Off Wye
	152.0			Begin Internal Sleeve Repair
	156.0			End Internal Sleeve Repair
33	166.6		3	Crack-Radial
34	175.5		1	Sealed Off Wye
35	178.1		1	Sealed Off Wye
36	184.9	332 N RUTAN	3	Break-In Conn
37	199.7	351 N VASSAR	2	Wye Service
38	203.2		1	Sealed Off Wye
39	217.7		1	Sealed Off Wye
40	220.2	334 N RUTAN	1	Wye Service
41	240.5	355 N VASSAR	1	Wye Service
42	243.0		1	Sealed Off Wye
43	246.9		1	Crack-Horizontal
44	268.2	363 N VASSAR	2	Wye Service
45	270.2	360 N RUTAN	1	Break-In Conn
46	292.7		1	Sealed Off Wye
47	294.7		1	Sealed Off Wye
48	296.9		4	Crack-Radial
49	301.8		1	5747-690 DS Manhole MH located at the base of a tree.

US Structure: 5747-690 363 N VASSAR Date Insp: 5/2/2011 Basin: EC02A
 DS Structure: 5747-688 401 N Vassar Dir Televised: Upstream To Downstream

Pipe Information
 Project No. : C-114 Dia: 8 Material: VCP Length: 202.0 Slope: 0.702 DVD #0648

Obs. #	VTR Counter	Distance	Location	Description	Rating	Ratings		Remain (gpm)
						Obsrvd (gpm)	Est. Struct Clean (gpm)	
1		0.0		5747-690 US Manhole	1			
2		16.1	365 N VASSAR	Break-In Conn	2			
3		19.5		Sealed Off Wye	1			
4		23.3		Broken Pipe	1			
5		25.5		Broken Pipe	1			
6		28.4		Crack-Horizontal	3			
7		30.5		Broken Pipe	1			
8		33.0		Crack-Horizontal	4			
9		42.1		Sealed Off Wye	1			
10		44.1	364 N RUTAN	Wye Service	1			
11		66.5	367 N VASSAR	Wye Service	1			
12		70.1		Sealed Off Wye	1			
13		82.2	366 N RUTAN	Break-In Conn	3			
14		93.1	367 N VASSAR / full of roots	Wye Service	5			
15		95.7		Sealed Off Wye	1			
		97.0		Begin Internal Sleeve Repair				
		102.0		End Internal Sleeve Repair				
2		116.0		Sealed Off Wye	1			
3		118.6		Sealed Off Wye	1			
4		123.3	402 N RUTAN	Break-In Conn	1			
5		163.5		Crack-Radial	2			
6		165.9		Crack-Radial	1			
7		182.7		Sealed Off Wye	1			
8		185.3		Sealed Off Wye	1			
9		193.7		Crack-Radial	4			
10		195.6	3442 E 3RD ST N / PVC	Break-In Conn	1			
		197.0		Begin Internal Sleeve Repair				
				Sleeve Repair ends at Manhole wall				
11		202.0		5747-688 DS Manhole	1			

Roots, infiltration evidence at the cracks, mineral deposits at some joints

US Structure: **5747-688** 401 N VASSAR AVE Date Insp: **5/2/2011** Basin: **EC02A**
 DS Structure: **5747-686** 3433 E CENTRAL Dir Televised: **Upstream To Downstream**

Pipe Information
 Project No. : **C-115** Dia: **8** Material: **VCP** Length: **249.6** Slope: **0.013** **DVD #0648**

Obs. #	VTR Counter	Distance	Location	Description	Rating	Obsrvd (gpm)	Est. (gpm)	Ratings Struct Clean	Remain (gpm)
1		0.0		5747-688 US Manhole	1				
2		3.9	404 N RUTAN / PVC	Break-In Conn	4				
3		7.3		Sealed Off Wye	1				
4		9.8		Sealed Off Wye	1				
5		31.9	403 N VASSAR	Break-In Conn	1				
6		35.1		Sealed Off Wye	1				
7		51.7	408 N RUTAN	Break-In Conn	1				
8		54.5		Crack-Horizontal	2				
9		56.6		Sealed Off Wye	2				
10		59.9		Sealed Off Wye	2				
11		61.8		Crack-Horizontal	3				
12		65.7		Crack-Horizontal	3				
13		67.2		Crack-Horizontal	2				
14		83.3		Sealed Off Wye	1				
15		85.8		Sealed Off Wye	1				
16		89.8		Crack-Horizontal	2				
17		95.7	407 N VASSAR	Break-In Conn	5				
Pipe gone / cavity / point repair & tap replacement to be done by Sewer Maintenance									
18		96.9		Broken Pipe	4				
19		103.8	416 N VASSAR	Break-In Conn	1			crooked & protruding slightly	
20		108.9		Sealed Off Wye	1				
21		111.5		Sealed Off Wye	1				
22		118.0		Crack-Radial	2				
23		127.7		Observation Hole	5				
OH is breaking down / cracked all around / Sewer Maint may install an internal sleeve repair to support the OH									
24		134.5		Sealed Off Wye	1				
25		136.2		Sealed Off Wye	1				
26		137.2	424 N RUTAN	Break-In Conn	1				
27		153.3		Roots	2				
28		159.0	409 N VASSAR	Break-In Conn	2				
29		161.5		Sealed Off Wye	1				

US Structure: 5747-688 **401 N VASSAR AVE** **Date Insp:** 5/2/2011 **Basin:** EC02A
DS Structure: 5747-686 **3433 E CENTRAL** **Dir Televised:** Upstream To Downstream **EC02A**

30	166.0		Roots	1	
31	171.2		Roots	1	
32	173.5		Roots	2	
33	176.0		Roots	3	
34	178.4		Roots	2	
35	180.9		Roots	2	
36	184.4		Sealed Off Wye	1	
37	187.2	426 N RUTAN	Break-In Conn	3	
38	191.2		Roots	1	
39	196.2		Roots	2	
40	198.8		Roots	2	
41	209.0		Roots	3	
42	210.8		Sealed Off Wye	5	
43	213.2		Sealed Off Wye	1	
44	235.9		Sealed Off Wye	1	
45	236.8		Roots	1	
46	237.7		Break-In Conn	3	
47	239.4		Roots	2	
48	244.6		Roots	2	
49	250.4		5747-686 DS Manhole	1	