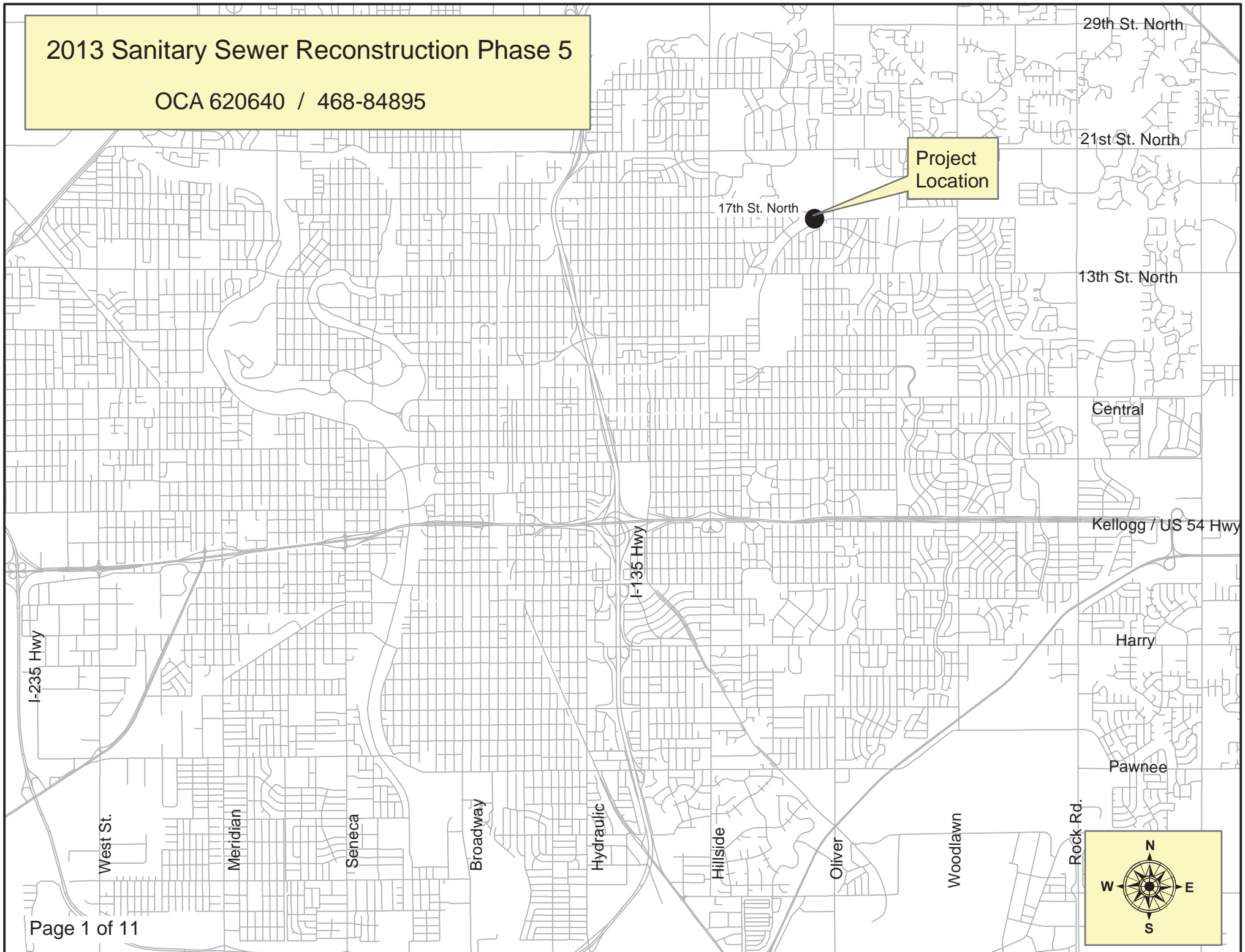


2013 Sanitary Sewer Reconstruction Phase 5

OCA 620640 / 468-84895



17th Street North

Church 4401 E 17th St N.

MH 5749-275
4702 E Vesta (south of fence)
Replace Manhole Frame & Cover
Approx depth = 8.8 ft

MH 5749-274
4620 E Vesta (north of fence)
Replace Manhole Frame & Cover
Approx depth = 7.2 ft

MH 5749-273
4526 E Vesta (north of fence)
Adjust MH to Grade (6" to 12")
(adjustment will include replacing
the manhole frame & cover)
Approx depth = 9.3 ft

MH 5749-272
4426 E Vesta (north of fence)
Adjust MH to Grade (6" to 12")
(adjustment will include replacing
the manhole frame & cover)
Remove & Replace MH Bench & Invert
Depth not measured

MH 5749-271
4322 E Vesta (north of fence)
Replace MH Frame & Cover
Approx depth = 13.7 ft

MH 5749-276
4726 E Vesta
Replace Manhole Frame & Cover
(MH located approx 6' east & 1'
north of shed) Depth not measured.

Remove 322 lf of 8" Pipe
Install 322 lf of 8" Pipe

A double-pipe storm water system with
a small concrete wall crosses the
sanitary sewer. Contractor shall support
or replace the storm structures as
necessary to complete this project.

Remove 320 lf of 8" Pipe
Install 320 lf of 8" Pipe

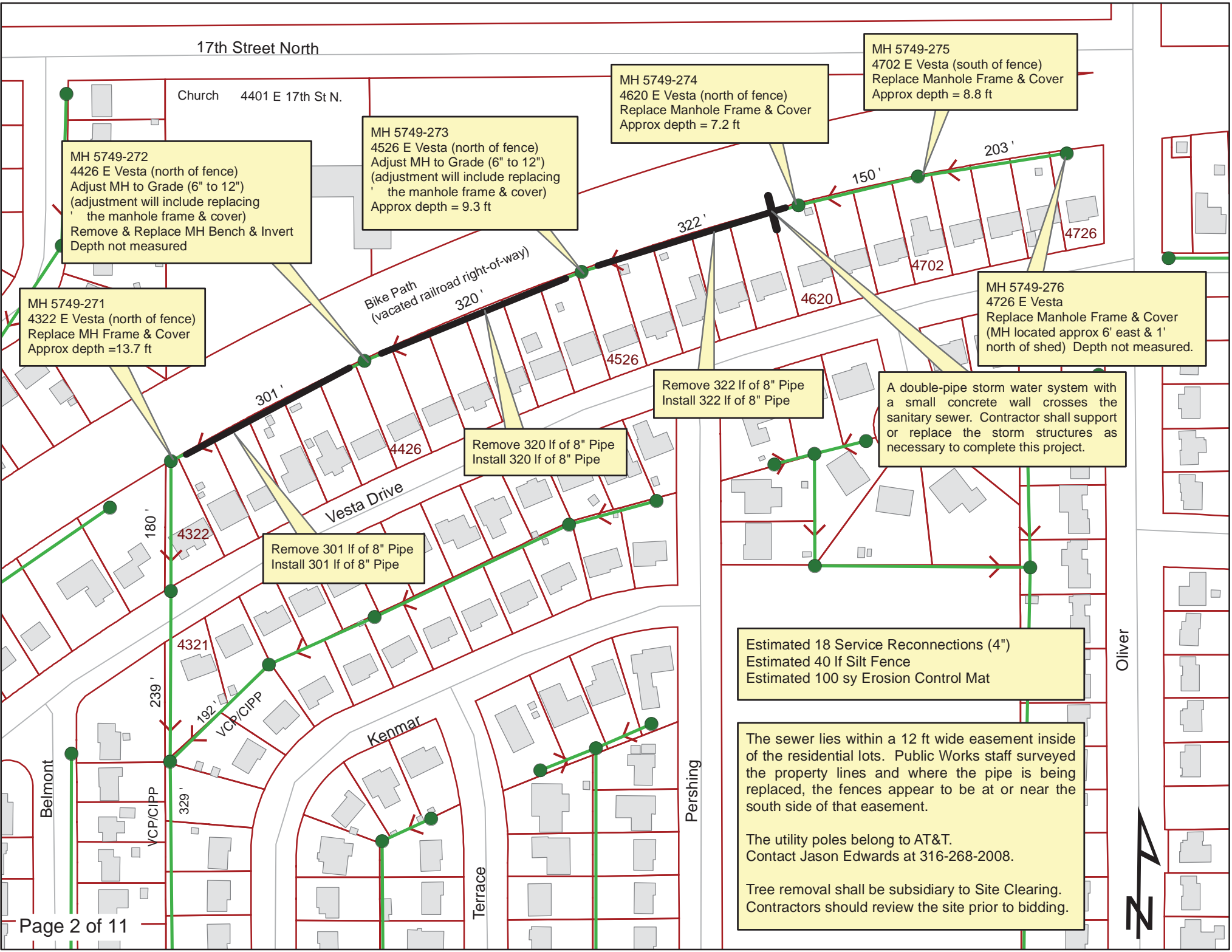
Remove 301 lf of 8" Pipe
Install 301 lf of 8" Pipe

Estimated 18 Service Reconnections (4")
Estimated 40 lf Silt Fence
Estimated 100 sy Erosion Control Mat

The sewer lies within a 12 ft wide easement inside
of the residential lots. Public Works staff surveyed
the property lines and where the pipe is being
replaced, the fences appear to be at or near the
south side of that easement.

The utility poles belong to AT&T.
Contact Jason Edwards at 316-268-2008.

Tree removal shall be subsidiary to Site Clearing.
Contractors should review the site prior to bidding.





Video Inspection Master Report

2/15/2013

1:36 PM

US Structure: 5749-274 4620 E VESTA DR Date Insp: 1/7/2013 Basin: EC02B
 DS Structure: 5749-273 4526 E VESTA DR Dir Televised: Upstream To Downstream

Pipe Information

Shape: Round Length Status: Project No. : F-253
 Dia/Ht: 8 Material: VCP Index:
 Length: 321.6 Slope: 0.398 Surface:

Obs. #	VTR Counter	Distance	Location	Description	Rating	Ratings			Remain (gpm)
						Obsrvd (gpm)	Est. (gpm)	Struct Clean	
1		0.0		5749-274 US Manhole	1				
2		23.8		Roots	1				
3		27.3		Roots	2				
4		27.5	4620 E VESTA	PVC Break-In Conn	1				
5		29.5		Invert / Broken Pipe	4				
6		74.5		Crack-Horizontal	3				
7		79.7	4614 E VESTA	PVC Break-In Conn	1				
8		82.2		Roots	1				
9		85.3	Invert & Crown	Broken Pipe	4				
10		91.8	Invert & Crown	Broken Pipe	4				
11		101.3	Invert & Crown	Broken Pipe	4				
12		107.2	Invert & Crown	Broken Pipe	4				
13		109.9		Roots	2				
14		117.3		Broken Pipe	3				
15		119.6		Broken Pipe	4				
16		126.6	4608 E VESTA	Break-In Conn / ROOTS	3				
17		132.9		Sealed Off Wye	1				
18		134.6	Invert	Broken Pipe	4				
19		135.4		Broken Pipe	4				
20		147.8	Invert & Crown	Crack-Radial	3				
21		157.6	Invert & Crown	Broken Pipe	4				
22		160.2	Invert is heaved upward	Broken Pipe	5				
23		163.7	Invert & Crown	Broken Pipe	4				
24		169.7	Invert & Crown	Broken Pipe	4				
25		171.8	Invert & Crown	Broken Pipe	3				
26		174.9		Crack-Radial	4				
27		183.6	Invert & Crown	Broken Pipe	4				
28		186.5	4602 E VESTA / broken pipe	PVC Break-In Conn	5				
29		201.6		Crack-Horizontal	2				
30		209.9		Crack-Horizontal	3				
31		218.6		Crack-Horizontal	3				
32		227.8		Broken Pipe	3				
33		243.7	4532 E VESTA	Break-In Conn	1				
34		248.8	Invert & Crown / Shifted Pipe	Broken Pipe	4				
35		252.1	Out of Round / Shifted Pipe	Broken Pipe	4				
36		255.8	Shifted Pipe	Broken Pipe	5				
37		264.8	Invert & Crown / Shifted Pipe	Broken Pipe	5				
38		264.8	<u>BROKEN PIPE</u>	<u>Camera Blocked</u>	5				<u>SEE REVERSE SETUP</u>



Video Inspection Master Report

2/15/2013

1:36 PM

US Structure: 5749-274	4620 E VESTA DR	Date Insp: 1/7/2013	Basin: EC02B
DS Structure: 5749-273	4526 E VESTA DR	Dir Televised: Downstream To Upstream	

Pipe Information

Shape: Round	Length Status:	Project No. : F-253
Dia/Ht: 8	Material: VCP	Index:
Length: 321.6	Slope: 0.398	Surface:

Obs. #	VTR Counter	Distance	Location	Description	Rating	Obsrvd (gpm)	Ratings			Remain (gpm)
							Est. (gpm)	Struct	Clean	
REVERSE SETUP / TV AGAINST THE FLOW										
1		0.0		5749-273 DS Manhole	1					
2		0.1		Broken Pipe	4					
3		2.0		BROKEN PIPE Pipe is out of round. Cracks in all quadrants. Invert is heaved upward.	5					- LML
				Camera Blocked						

INCOMPLETE TELEVISIONING FOR THIS LINE.

Sewer Maintenance cannot get equipment through this pipe.
Pipe cannot be lined and must be replaced. -LML



Video Inspection Master Report

2/15/2013

1:36 PM

US Structure: 5749-273 4526 E VESTA DR **Date Insp:** 1/7/2013 **Basin:** EC02B
DS Structure: 5749-272 4426 E VESTA DR **Dir Televised:** Upstream To Downstream

Pipe Information

Shape: Round	Length Status:	Project No. : F-253
Dia/Ht: 8	Material: VCP	Index:
Length: 319.9	Slope: 0.400	Surface:

Obs. #	VTR Counter	Distance	Location	Description	Rating	Obsrvd (gpm)	Ratings			Remain (gpm)
							Est. (gpm)	Struct	Clean	
1		0.0		5749-273 US Manhole	1					
2		7.7		Broken Pipe	4					
3		11.2		Crack-Radial	3					
4		14.1		Crack-Radial	3					
5		17.4		Crack-Radial	2					
6		22.7		Roots	1					
7		23.4		Crack-Horizontal	3					
8		25.9		Crack-Horizontal	2					
9		33.4	4520 E VESTA	Wye Service / ROOTS	3					
10		34.9	Invert shifted upward	Broken Pipe	4					
11		41.6	Invert shifted upward	Broken Pipe	4					
12		74.9		Crack-Horizontal	1					
13		78.3		Crack-Horizontal	1					
14		83.7		Broken Pipe	4					
15		90.0		Broken Pipe	3					
16		93.1	4514 E VESTA	Break-In Conn	1					
17		111.2	Invert shifted upward	Broken Pipe	4					
18		117.1	Flowline drops down after a large crack	Broken Pipe	4					
19		129.8		Broken Pipe	2					
20		141.1	Gap at joint	Mat. Changes to PVC	1					
21		145.0	4508 E VESTA	PVC Break-In Conn	1					
22		146.1		Mat. Chngs to VCP / Gapped joint	1					
23		162.1		Broken Pipe & Roots	4					
24		202.5	4508 E VESTA	Wye Service	1					
25		244.4	Pipe shoves inward from north side /	Broken Pipe	4					
26		248.0		Crack-Horizontal	3					
27		255.0	4502 E VESTA	Wye Service	1					
28		285.4		Crack-Horizontal	2					
29		298.8		Roots	1					
30		301.7		Roots	1					
31		307.8		Roots	1					
32		308.6	4432 E VESTA	Break-In Conn	1					
33		320.7		5749-272 DS Manhole	5	ROOTS				



Video Inspection Master Report

2/15/2013

1:36 PM

US Structure: 5749-272 4426 E VESTA DR **Date Insp:** 1/8/2013 **Basin:** EC02B
DS Structure: 5749-271 4322 E VESTA ST **Dir Televised:** Downstream To Upstream

Pipe Information

Shape: Round	Length Status:	Project No. : F-253
Dia/Ht: 8	Material: VCP	Index:
Length: 301.3	Slope: 0.392	Surface:

Obs. #	VTR Counter	Distance	Location	Description	Rating	Obsrvd (gpm)	Ratings		Remain (gpm)
							Est. (gpm)	Struct Clean	
1		0.0		5749-271 DS Manhole	1	TV AGAINST THE FLOW			
2		2.0	4322 E VESTA	PVC Break-In Conn / Broken Pipe (after the broken pipe, camera falls into a sag – water on middle of the camera lens) -LML	3				
3		27.5		Crack-Horizontal	1				
4		35.5	4332 E VESTA	Break-In Conn / Roots	5	Full of roots			
5		51.0		Roots	1				
6		63.2		Roots	1				
7		66.4		Roots	1				
8		94.3	4402 E VESTA	Wye Service / Roots	3				
9		142.9	4408 E VESTA	Break-In Conn	1				
10		147.8		Crack-Horizontal	2				
11		194.8	4414 E VESTA	Wye Service	1				
12		200.9		Roots	2				
13		206.8		Roots	2				
14		210.0		Roots	2				
15		216.1		Roots	2				
16		222.4		Roots	2				
17		255.9	4420 E VESTA	Wye Service / Roots	5	Heavy roots hang into the main - LML			
18		301.6		5749-272 US Manhole	5	ROOTS. NEED REHAB			