

MH # 5744-216
Replace Manhole Frame & Cover
Rework Manhole Bench & Invert
Approx depth = 11.4 ft

MH # 5744-223
Construct Shallow Manhole over existing sewer where pipe bends at 154 ft north-east of MH 5744-216
Approx depth = 6.0 ft

MH # 5744-231
Approx depth = 5.6 ft

MH # 5744-217U (underground union)
Construct Standard Manhole over existing union location

Remove 154 lf of 6" pipe & Install 154 lf of 8" pipe
Reconstruct Outside Drop / entering MH 5744-216 from east

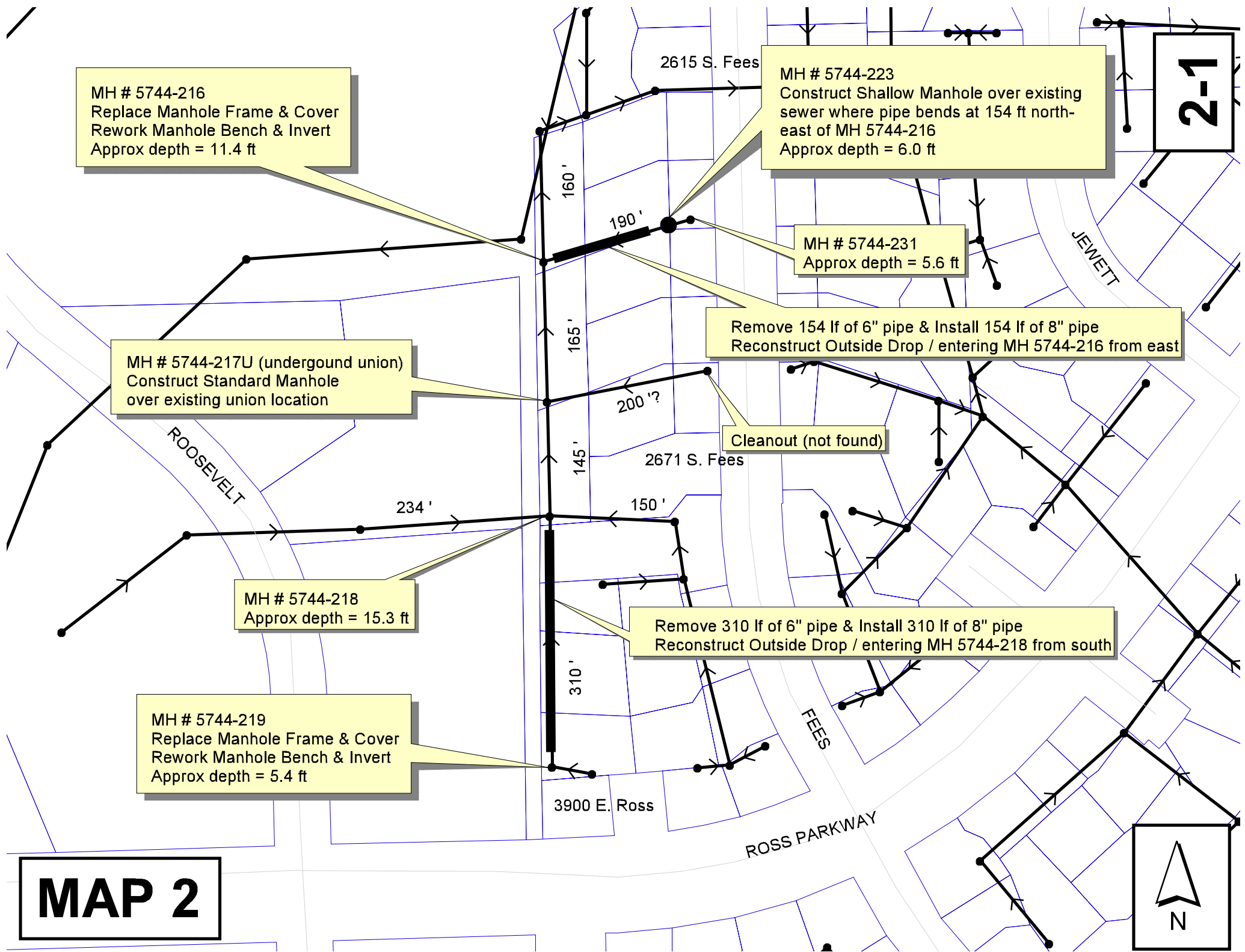
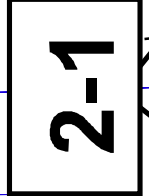
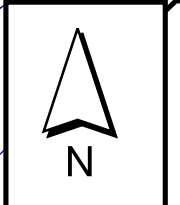
Cleanout (not found)

MH # 5744-218
Approx depth = 15.3 ft

Remove 310 lf of 6" pipe & Install 310 lf of 8" pipe
Reconstruct Outside Drop / entering MH 5744-218 from south

MH # 5744-219
Replace Manhole Frame & Cover
Rework Manhole Bench & Invert
Approx depth = 5.4 ft

MAP 2



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JEWETT

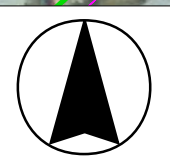
FEEES

MH # 5744-218

ROOSEVELT

ROSS PARKWAY

Aerial View



Television Inspection Master Report

9/30/2003
10:10:09AM
C01A

US Manhole: 5744-219
DS Manhole: 5744-218 2669 S FEES ST

Date Insp: 7/18/2003 Basin:

Dir Televised: Upstream To Downstream

Pipe Information

Shape:	Round	Length Status:	Project No.:	I-078
Dia/Ht Width:	6" 0	Material:	VCP	Index:
Length:	310.0	Slope:	1.452	Surface:
Pipe Sec Length:	Comment:			

Inspection Information

Crew:	694	Percent Full:	10	Tape ID:	V-3995
Weather:	Sunny	Purpose:	TV Existing Line	Counter Start:	10;34
Surface Cond:	Trees & Fences	Flow:	Normal Flow	Counter Stop:	
Dyed Test:	No				

Obs. #	VTR Counter Comment	Dist	Location	Description	Rating	Obsrvd (gpm)	Est. (gpm)	Ratings Struct	Clean	Remain (gpm)	
1		0.0	US Manhole / 5744-219								
2		1.0	Joint	Roots	1		0.002	1	1	0.002	
3		3.0	Joint	Roots	5		0.030	18	100	0.030	
4		6.0	Joint	Roots	3		0.008	5	8	0.008	
5		14.0	Joint	Roots	3		0.008	5	8	0.008	
6		16.0	Joint	Roots	4		0.010	10	25	0.010	
7		18.0	Joint	Roots	4		0.010	10	25	0.010	
8		20.0	Joint	Roots	3		0.008	5	8	0.008	
9		22.0	Joint	Roots	4		0.010	10	25	0.010	
10		26.0	Joint	Roots	3		0.008	5	8	0.008	
11		28.0	Joint	Roots	3		0.008	5	8	0.008	
12		30.0	Joint	Roots	3		0.008	5	8	0.008	
13		35.0	Joint	Roots	3		0.008	5	8	0.008	
14		36.0	Joint	Roots	5		0.030	18	100	0.030	
15		38.0	Joint	Roots	4		0.010	10	25	0.010	
16		42.0	East	Wye Service	3		0.000	2	0	0.000	
	3908 S. FEES										
17		59.0	Crown	Crack-Horizontal	3		0.004	5	0	0.004	
18		71.0	East	Wye Service	5		0.000	400	0	0.000	
	3912 S. FEES										
19		75.0	Quad 2 / L-Rt	Crack-Horizontal	3		0.004	5	0	0.004	
20		90.0	Quad 1 / U-Rt	Crack-Horizontal	3		0.004	5	0	0.004	
21		91.0	Joint	Roots	2		0.004	2	4	0.004	
22		92.0	Quad 3 / L-Lt	Crack-Horizontal	3		0.004	5	0	0.004	
23		98.0	Quad 2 / L-Rt	Crack-Horizontal	3		0.004	5	0	0.004	
24		107.0	Quad 4 / U-Lt	Crack-Horizontal	3		0.004	5	0	0.004	
25		108.0	Joint	Roots	3		0.008	5	8	0.008	
26		108.0	Quad 3 / L-Lt	Crack-Horizontal	3		0.004	5	0	0.004	
27		113.0	Joint	Roots	2		0.004	2	4	0.004	
28		126.0	East	Wye Service	5		0.000	400	0	0.000	
	VACANT LOT ?										
29		129.0	Joint	Roots	3		0.008	5	8	0.008	
30		137.0	Joint	Roots	2		0.004	2	4	0.004	
31		148.0	Joint	Roots	3		0.008	5	8	0.008	
32		154.0	East	Wye Service	5		0.000	400	0	0.000	
	VACANT LOT ?										
34		157.0	Joint	Roots	4		0.010	10	25	0.010	
35		165.0	Joint	Roots	4		0.010	10	25	0.010	

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Television Inspection Master Report

9/30/2003
10:10:09AM

US Manhole: 5744-219
DS Manhole: 5744-218 2669 S FEES ST

Date Insp: 7/18/2003

Basin: C01A

36	170.0	Joint	Roots	4	0.010	10	25	0.010
37	171.0	Joint	Roots	4	0.010	10	25	0.010
38	178.0	Joint	Roots	4	0.010	10	25	0.010
39	180.0	Joint	Roots	3	0.008	5	8	0.008
40	183.0	Crown	Crack-Radial	3	0.004	5	0	0.004
41	185.0	East	Wye Service	3	0.000	2	0	0.000
VACANT LOT								
42	190.0	Joint	Roots	3	0.008	5	8	0.008
43	194.0	Invert	Broken Pipe	3	0.010	60	0	0.010
44	198.0	Crown	Crack-Horizontal	3	0.004	5	0	0.004
45	201.0	Quad 2 / L-Rt	Crack-Horizontal	1	0.001	1	0	0.001
46	205.0	Joint	Roots	2	0.004	2	4	0.004
47	220.0	Joint	Offset	3	0.010	20	0	0.010
48	228.0	Joint	Roots	2	0.004	2	4	0.004
49	236.0	Joint	Roots	3	0.008	5	8	0.008
50	240.0	Joint	Roots	4	0.010	10	25	0.010

WE CAN TELEVISION NO FURTHER DUE TO THE ROOTS AT THE JOINT. WE WILL REVERSE OUR SET UP AND TELEVISION FROM THE DOWNSTREAM MANHOLE APPROX 70 FT SOUTH.

REVERSE SETUP:

Obs. #	VTR Counter Comment	Dist	Location	Description	Rating	Obsrvd (gpm)	Est. (gpm)	Ratings Struct	Clean	Remain (gpm)
1		0.0	DS Manhole / 5744-218 /	tv against the flow						
2		40.0	Joint	Roots	4		0.010	10	25	0.010
3		43.0	Joint	Roots	4		0.010	10	25	0.010
4		44.0	Joint	Roots	3		0.008	5	8	0.008
5		49.0	Joint	Roots	4		0.010	10	25	0.010
6		51.0	Joint	Roots	3		0.008	5	8	0.008
7		53.0	Joint	Roots	4		0.010	10	25	0.010
8		56.0	Joint	Roots	3		0.008	5	8	0.008
9		57.0	Joint	Roots	4		0.010	10	25	0.010
10		59.0	Joint	Roots	4		0.010	10	25	0.010
11		62.0	Joint	Roots	3		0.008	5	8	0.008
12		63.0	Joint	Roots	3		0.008	5	8	0.008
13		65.0	Joint	Roots	3		0.008	5	8	0.008
14		67.0	Joint	Roots	4		0.010	10	25	0.010

THIS AS FAR AS WE NEED TO TELEVISION. THE COMBINED FOOTAGE IS 307FT.

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Television Inspection Master Report

9/30/2003
10:10:09AM

US Manhole: 5744-218 2669 S FEES ST Date Insp: 7/24/2003 Basin: C01A
DS Manhole: 5744-217U

Dir Televised: Upstream To Downstream

Pipe Information

Shape: Round Length Status: Project No.: I-078
Dia/Ht Width: 8 0 Material: VCP Index:
Length: 160.0 Slope: 1.375 Surface:
Pipe Sec Length: Comment:

Inspection Information

Crew: 694 Percent Full: 15 Tape ID: V-3995
Weather: Sunny Purpose: TV Existing Line Counter Start: 1;10.24
Surface Cond: Trees & Fences Flow: Normal Flow Counter Stop:
Dyed Test: No

Obs. #	VTR Counter Comment	Dist	Location	Description	Rating	Obsrvd (gpm)	Est. (gpm)	Ratings Struct	Clean	Remain (gpm)
1		0.0	US Manhole / 5744-218							
2		1.0	Quad 4 / U-Lt	Crack-Horizontal	2		0.002	2	0	0.002
3		18.0	Invert	Crack-Horizontal	3		0.004	5	0	0.004
4		24.0	Quad 1 / U-Rt	Crack-Radial	3		0.004	5	0	0.004
6		36.0	Quad 1 / U-Rt	Crack-Horizontal	2		0.002	2	0	0.002
5		38.0	Quad 3 / L-Lt	Crack-Radial	3		0.004	5	0	0.004
7		45.0	Crown	Crack-Radial	3		0.004	5	0	0.004
8		52.0	East	Wye Service	1		0.000	0	0	0.000
2671 S. FEES										
9		53.0	Quad 1 / U-Rt	Crack-Radial	3		0.004	5	0	0.004
10		58.0	Quad 1 / U-Rt	Crack-Radial	3		0.004	5	0	0.004
11		62.0	Quad 2 / L-Rt	Crack-Horizontal	3		0.004	5	0	0.004
12		74.0	Crown	Crack-Horizontal	3		0.004	5	0	0.004
13		76.0	Crown	Crack-Horizontal	3		0.004	5	0	0.004
14		86.0	Crown	Crack-Horizontal	1		0.001	1	0	0.001
15		89.0	East	Wye Service	1		0.000	0	0	0.000
2661 S. FEES										
16		108.0	Quad 3 / L-Lt	Crack-Radial	2		0.002	2	0	0.002
17		117.0	Quad 1 / U-Rt	Crack-Horizontal	2					0.000
18		129.0	Quad 3 / L-Lt	Crack-Radial	2		0.002	2	0	0.002
19		132.0	Quad 1 / U-Rt	Crack-Radial	3		0.004	5	0	0.004
20		138.0	Crown	Crack-Radial	3		0.004	5	0	0.004
21		142.0	West	Pipe Seal	1		0.000	0	0	0.000
22		144.0	Quad 1 / U-Rt	Crack-Radial	3		0.004	5	0	0.004
23		145.0	East	Other						

**UNDERGROUND UNION WITH LINE COMING IN FROM THE EAST
NEED TO CONSTRUCT A MANHOLE AT THIS LOCATION (MH 5744-217).**

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Television Inspection Master Report

9/30/2003
10:10:09AM

US Manhole: 5744-217U
DS Manhole: 5744-216

2645 S FEES ST

Date Insp: 7/24/2003

Basin: C01A

Dir Televised: Upstream To Downstream

Pipe Information

Shape:	Round	Length Status:	Project No.:	I-078
Dia/Ht Width:	8 0	Material:	VCP	Index:
Length:	165.0	Slope:	1.500	Surface:
Pipe Sec Length:	Comment: INSPECT LINE REPAIR BY DENTON PLUMBING. THEY BROKE THE LINE WHICH WAS 15'6" DEEP. LINE REPLACED FROM 76' TO 84'. PERMIT #00265. WORK COMPLETED 02-04-2003 TGC #####			

Obs. #	VTR Counter	Dist	Location	Description	Rating	Obsrvd (gpm)	Est. (gpm)	Ratings		
								Struct	Clean	Remain (gpm)
1		0.0	US UNDERGROUND UNION 5744-217U							
2		4.0	Quad 1 / U-Rt	Crack-Radial	3		0.004	5	0	0.004
3		6.0	Crown	Crack-Radial	3		0.004	5	0	0.004
4		9.0	Quad 4 / U-Lt	Crack-Horizontal	3		0.004	5	0	0.004
5		12.0	Crown	Crack-Horizontal	3		0.004	5	0	0.004
6		15.0	Crown	Crack-Horizontal	3		0.004	5	0	0.004
7		16.0	Quad 1 / U-Rt	Broken Pipe	2		0.008	44	0	0.008
8		21.0	Quad 1 / U-Rt	Crack-Radial	3		0.004	5	0	0.004
9		25.0	Quad 2 / L-Rt	Broken Pipe	3		0.010	60	0	0.010
10		27.0	Crown	Crack-Radial	3		0.004	5	0	0.004
11		31.0	Crown	Crack-Radial	3		0.004	5	0	0.004
12		34.0	Quad 1 / U-Rt	Broken Pipe	2		0.008	44	0	0.008
13		37.0	Quad 2 / L-Rt	Crack-Radial	3		0.004	5	0	0.004
14		39.0	Quad 4 / U-Lt	Crack-Radial	3		0.004	5	0	0.004
15		43.0	Quad 2 / L-Rt	Crack-Horizontal	3		0.004	5	0	0.004
16		45.0	Quad 1 / U-Rt	Crack-Radial	3		0.004	5	0	0.004
17		51.0	Quad 4 / U-Lt	Crack-Radial	3		0.004	5	0	0.004
18		55.0	Crown	Crack-Horizontal	3		0.004	5	0	0.004
19		57.0	Crown	Crack-Radial	3		0.004	5	0	0.004
20		60.0	Crown	Crack-Radial	3		0.004	5	0	0.004
21		63.0	Crown	Crack-Radial	3		0.004	5	0	0.004
22		67.0	Crown	Crack-Radial	3		0.004	5	0	0.004
23		70.0	Crown	Crack-Radial	3		0.004	5	0	0.004
24		73.0	Crown	Crack-Radial	3		0.004	5	0	0.004
25		73.0	East	Wye Service	1		0.000	0	0	0.000
2647 S. FEES										
26		76.0	Quad 1 / U-Rt	Crack-Horizontal	3		0.004	5	0	0.004
27		79.0	Crown	Crack-Horizontal	3		0.004	5	0	0.004
28		82.0	Quad 2 / L-Rt	Crack-Radial	2		0.002	2	0	0.002
29		85.0	Joint	Other						0.000
SECTION OF PVC PIPE BEGINS ALSO HAVE A PIECE OF BROKEN PIPE IN QUAD 4 WHERE THE TILE CONNECTS TO PVC PIPE.										
30		88.0	East	Break-In Conn	1		0.001	0	0	0.001
either 2647 S FEES or 2651 S. FEES										
31		91.0	Joint	Other						
PVC ENDS CLAY TILE STARTS.										
32		94.0	Quad 3 / L-Lt	Crack-Radial	2		0.002	2	0	0.002
33		97.0	Invert	Crack-Radial	3		0.004	5	0	0.004
34		100.0	Crown	Crack-Horizontal	3		0.004	5	0	0.004
35		103.0	Invert	Broken Pipe	3		0.010	60	0	0.010

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Television Inspection Master Report

9/30/2003
10:10:09AM
C01A

US Manhole: 5744-231
DS Manhole: 5744-216

2637 S FEES ST
2645 S FEES ST

Date Insp: 7/24/2003

Basin:

Dir Televised: Downstream To Upstream

Pipe Information

Shape:	Round	Length Status:	Project No.:	I-079
Dia/Ht Width:	6" 0	Material:	VCP	Index:
Length:	190.0	Slope:	0.800	Surface:
Pipe Sec Length:	Comment:			

Inspection Information

Crew:	694	Percent Full:	15	Tape ID:	V-3995
Weather:	Sunny	Purpose:	TV Existing Line	Counter Start:	1;58.16
Surface Cond:	Trees & Fences	Flow:	Normal Flow	Counter Stop:	
Dyed Test:	No				

Obs. #	VTR Counter Comment	Dist	Location	Description	Rating	Obsrvd (gpm)	Est. (gpm)	Ratings Struct	Clean	Remain (gpm)
1		0.0	DS Manhole / 5744-216 / tv against the flow							
		2.0	Outside drop into MH 5744-216							
2		3.0	Crown	Broken Pipe	3		0.010	60	0	0.010
3		5.0	Crown	Crack-Radial	3		0.004	5	0	0.004
4		12.0	Crown	Crack-Radial	3		0.004	5	0	0.004
5		35.0	Crown	Crack-Radial	3		0.004	5	0	0.004
6		42.0	Crown	Crack-Horizontal	3		0.004	5	0	0.004
7		59.0	South	Wye Service	1		0.000	0	0	0.000
	2645 S. FEES									
8		62.0	Crown	Crack-Horizontal	3		0.004	5	0	0.004
9		84.0	North	Wye Service	1		0.000	0	0	0.000
	2631 S. FEES									
10		88.0	South	Wye Service	3		0.000	2	0	0.000
	2643 S. FEES									
11		113.0	North	Wye Service	1		0.000	0	0	0.000
	2633 S. FEES									
12		117.0	South	Wye Service	3		0.000	2	0	0.000
	2641 S. FEES									
13		121.0	Crown	Crack-Radial	3		0.004	5	0	0.004
14		126.0	Quad 2 / L-Rt	Crack-Radial	3		0.004	5	0	0.004
15		142.0	North	Wye Service	1		0.000	0	0	0.000
	2635 S. FEES.									
16		154.0	North	Wye Service	1		0.000	0	0	0.000
	2637 S. FEES									
		154.0	Pipe bends to the right at this point							
17		157.0	Quad 1 / U-Rt	Crack-Radial	2		0.002	2	0	0.002
18		190.0	US Manhole / 5744-231							0.000

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