

43TH

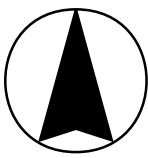
12TH

SANTA FEE

MEAD

MOSLEY

11TH



**16-2**

# Television Inspection Master Report

8/20/2007  
9:25:58AM

US Manhole: 5548-294PR      715 E 13TH N ST      Date Insp: 7/2/2007      Basin: C03C  
DS Manhole: 5548-291PR      Dir Televised: Upstream To Downstream

## Pipe Information

Shape: Round      Length Status:      Project No.: A-391  
Dia/Ht Width: 8      Material: VCP      Index:      Paved Only  
Length: 294.0      Slope: 0.248      Surface: Paved Only

## Inspection Information

Crew: 692      Percent Full:      Tape ID: DVD #0294  
Weather: Cloudy      Purpose: TV Existing Line      Counter Start:  
Surface Cond: Out Buildings      Flow: Normal Flow      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	5548-294PR	1	0.000	0	0	0.000	
2	2.0		Crown	Observation Hole	1	0.000	0	0	0.000	
3	16.2			Sealed Off Wye West 6" Clay Wye Connection	1	0.000	0	0	0.000	
4	18.1			Sealed Off Wye East 6" Clay Wye Connection	1	0.000	0	0	0.000	
5	26.5		Lower Left	Broken Pipe	1	0.004	30	0	0.004	
6	39.8			Sealed Off Wye West 6" Clay Wye Connection	1	0.000	0	0	0.000	
7	40.3		Invert	Crack-Radial	2	0.002	2	0	0.002	
8	40.8			Sealed Off Wye East 6" Clay Wye Connection	1	0.000	0	0	0.000	
9	63.8			Sealed Off Wye West 6" Clay Wye Connection	1	0.000	0	0	0.000	
10	65.0			Sealed Off Wye East 6" Clay Wye Connection	1	0.000	0	0	0.000	
11	79.1		Crown	Observation Hole	1	0.000	0	0	0.000	
12	81.4		Crown	Broken Pipe	4	0.030	78	0	0.030	
13	84.2		Invert	Broken Pipe	3	0.010	60	0	0.010	
14	86.4		Upper Right	Crack-Radial	2	0.002	2	0	0.002	
15	87.0		West	Wye Service	1	0.000	0	0	0.000	
			715 E 13TH ST N	6" Clay Wye Connection						
16	90.1			Sealed Off Wye East 6" Clay Wye Connection	1	0.000	0	0	0.000	
17	111.3			Sealed Off Wye West 6" Clay Wye Connection	1	0.000	0	0	0.000	
18	113.3			Sealed Off Wye East 6" Clay Wye Connection	1	0.000	0	0	0.000	
19	124.9		Upper Left	Crack-Horizontal	1	0.001	1	0	0.001	
20	135.5			Sealed Off Wye West 6" Clay Wye Connection	1	0.000	0	0	0.000	
21	137.6			Sealed Off Wye East 6" Clay Wye Connection	1	0.000	0	0	0.000	
22	159.8			Sealed Off Wye West 6" Clay Wye Connection	1	0.000	0	0	0.000	

16-3

# Television Inspection Master Report

8/20/2007  
9:25:58AM

US Manhole: 5548-294PR      715 E 13TH N ST      Date Insp: 7/2/2007      Basin: C03C  
DS Manhole: 5548-291PR      Dir Televised: Upstream To Downstream

23	162.1		Sealed Off Wye East	1	0.000	0	0	0.000
			6" Clay Wye Connection					
24	171.8	Crown	Crack-Horizontal	1	0.001	1	0	0.001
25	177.8	East	Break-In Conn	2	0.002	0	0	0.002
			6" Break In Connection					
715 E 13TH ST N								
26	182.0	Crown / broken pipe	Observation Hole	3	0.003	0	0	0.003
27	183.8	Invert	Crack-Radial	3	0.004	5	0	0.004
28	184.2		Sealed Off Wye West	1	0.000	0	0	0.000
			6" Clay Wye Connection					
29	186.5		Sealed Off Wye East	1	0.000	0	0	0.000
			6" Clay Wye Connection					
30	202.1	Upper Left	Crack-Radial	1	0.001	1	0	0.001
31	208.2		Sealed Off Wye West	1	0.000	0	0	0.000
			6" Clay Wye Connection					
32	210.1		Sealed Off Wye East	1	0.000	0	0	0.000
			6" Clay Wye Connection					
33	212.2	Upper Left	Crack-Horizontal	1	0.001	1	0	0.001
34	214.0	Upper Right	Crack-Horizontal	2	0.002	2	0	0.002
35	215.8	Crown	Crack-Horizontal	2	0.002	2	0	0.002
36	218.1	Lower Left	Crack-Horizontal	2	0.002	2	0	0.002
37	232.2		Sealed Off Wye West	1	0.000	0	0	0.000
			6" Clay Wye Connection					
38	234.3		Sealed Off Wye East	1	0.000	0	0	0.000
			6" Clay Wye Connection					
39	236.0	Lower Right	Crack-Radial	3	0.004	5	0	0.004
40	243.5	Invert	Crack-Radial	2	0.002	2	0	0.002
41	246.6	Start	Sag	2	0.000	2	0	0.000
42	256.3		Sealed Off Wye West	1	0.000	0	0	0.000
			6" Clay Wye Connection					
53	256.3	End	Sag	1	0.000	1	0	0.000
43	258.4		Sealed Off Wye East	1	0.000	0	0	0.000
			6" Clay Wye Connection					
44	262.0	Crown	Crack-Radial	2	0.002	2	0	0.002
45	280.2	Upper Left	Broken Pipe	5	0.060	100	0	0.060
46	280.6		Sealed Off Wye West	1	0.000	0	0	0.000
			6" Clay Wye Connection					
47	282.4		Sealed Off Wye East	1	0.000	0	0	0.000
			6" Clay Wye Connection					
48	284.1	Upper Right	Broken Pipe	4	0.030	78	0	0.030
49	287.1	Upper Left	Broken Pipe	5	0.060	100	0	0.060
50	292.4	West	Break-In Conn	5	0.010	400	0	0.010
			6" VCP MH Stub					
715 E 13TH ST N								
51	292.4	Camera Blocked		5	0.000	0	0	0.000
			Loose tile from west tap laying in manhole trough. Manhole has been "capped off" except for a hole that lets in flow from a west tap.					
52	292.4	DS Manhole 5548-291PR		5	0.000	0	0	0.000

**THIS MANHOLE WILL BE EXPOSED AND REMOVED PRIOR TO THIS LINING PROJECT.  
THAT CONTRACTOR RECONNECT THE MANHOLE TAP TO PIPE**

**16-4**

# Television Inspection Master Report

8/20/2007  
9:25:58AM

US Manhole: 5548-291PR  
DS Manhole: 5548-288

715 E 13TH N ST

Date Insp: 7/2/2007  
Dir Televised: Downstream to Upstream

## Pipe Information

Shape:	Round	Length Status:	Project No.:	A-391
Dia/Ht Width:	8	Material:	Index:	
Length:	317.5	Slope:	Surface:	Paved Only

## Inspection Information

Crew:	692	Percent Full:	Tape ID:	DVD #0294
Weather:	Cloudy	Purpose:	Counter Start:	

Obs. #	VTR Counter Svc. Address	Distance	Location	Description	Obs Rating	Obsrvd (gpm)	Est. (gpm)	Ratings Struct	Clean	Remain (gpm)
1		0.0	DS Manhole	5548-288 TV AGAINST THE FLOW						
2		0.0	Crown	Broken Pipe	1		0.004	30	0	0.004
3		2.0	East	Wye Service	1		0.000	0	0	0.000
	<b>715 E 13TH ST N</b>			6" Clay Wye Connection						
4		5.0		Sealed Off Wye West	1		0.000	0	0	0.000
				6" Clay Wye Connection						
5		9.0	Upper Right	Crack-Horizontal	3		0.004	5	0	0.004
6		22.1	East	Break-In Conn	1		0.001	0	0	0.001
	<b>715 E 13TH ST N</b>			6" PVC Saddle "T" Conn						
7		26.6	Upper Left	Broken Pipe	4		0.030	78	0	0.030
8		26.6		Sealed Off Wye East	1		0.000	0	0	0.000
				6" Clay Wye Connection						
9		29.3	West	Wye Service	1		0.000	0	0	0.000
	<b>715 E 13TH ST N / debris in service line</b>			6" Clay Wye Connection						
10		50.7		Sealed Off Wye East	1		0.000	0	0	0.000
				6" Clay Wye Connection						
11		52.8		Sealed Off Wye West	1		0.000	0	0	0.000
				6" Clay Wye Connection						
12		71.9	Joint	Offset	2		0.000	0	0	0.000
13		75.4		Sealed Off Wye East	1		0.000	0	0	0.000
				6" Clay Wye Connection						
14		77.4		Sealed Off Wye West	1		0.000	0	0	0.000
				6" Clay Wye Connection						
15		80.2	Joint	Offset	2		0.000	0	0	0.000
16		81.7	Upper Left	Crack-Radial	2		0.002	2	0	0.002
17		83.2	Start	Sag	2		0.000	2	0	0.000
18		85.7	Camera Lens Submerged		5		0.000	25	0	0.000
19		113.3	Camera Lens Emerged		1		0.000	1	0	0.000
20		124.7		Sealed Off Wye East	1		0.000	0	0	0.000
				6" Clay Wye Connection						
21		126.7		Sealed Off Wye West	1		0.000	0	0	0.000
				6" Clay Wye Connection						
22		127.4	Joint	Offset	3		0.010	20	0	0.010
23		135.6	Joint	Offset	2		0.000	0	0	0.000
24		139.5	Joint	Offset	3		0.010	20	0	0.010
25		141.8	Upper Left	Crack-Horizontal	2		0.002	2	0	0.002
26		141.8	Upper Right	Broken Pipe	2		0.008	44	0	0.008
27		148.9		Sealed Off Wye East	1		0.000	0	0	0.000
				6" Clay Wye Connection						
28		151.1		Sealed Off Wye West	1		0.000	0	0	0.000
				6" Clay Wye Connection						

16-5

# Television Inspection Master Report

8/20/2007  
9:25:58AM

US Manhole: 5548-291PR  
DS Manhole: 5548-288

715 E 13TH N ST

Date Insp: 7/2/2007  
Dir Televised: Downstream to Upstream

29	151.9	Upper Right	Broken Pipe	3	0.010	60	0	0.010	
30	164.4	Joint	Offset	2	0.000	0	0	0.000	
31	174.3	East	Wye Service	1	0.000	0	0	0.000	
<b>715 E 13TH ST N</b>									
32	175.5		6" Clay Wye Connection						
			Sealed Off Wye West	1	0.000	0	0	0.000	
			6" Clay Wye Connection						
33	185.0	Upper Right	Crack-Radial	1	0.001	1	0	0.001	
34	191.0	Invert	Crack-Horizontal	2	0.002	2	0	0.002	
35	198.2		Sealed Off Wye East	1	0.000	0	0	0.000	
			6" Clay Wye Connection						
36	199.0	Joint	Offset	3	0.010	20	0	0.010	
37	200.9	West	Wye Service	1	0.000	0	0	0.000	
			6" Clay Wye Connection						
<b>715 E 13TH ST N</b>									
38	201.2	Lower Right	Broken Pipe	3	0.010	60	0	0.010	
39	207.3	Upper Left	Crack-Horizontal	1	0.001	1	0	0.001	
40	208.4		OH	1	0.000	0	0	0.000	
41	222.4		Sealed Off Wye East	1	0.000	0	0	0.000	
			6" Clay Wye Connection						
42	224.4		Sealed Off Wye West	1	0.000	0	0	0.000	
			6" Clay Wye Connection						
43	225.7	Upper Right	Crack-Radial	2	0.002	2	0	0.002	
44	231.5	Crown	Crack-Horizontal	2	0.002	2	0	0.002	
45	233.4	Lower Left	Crack-Horizontal	2	0.002	2	0	0.002	
46	235.5	Lower Left	Crack-Horizontal	3	0.004	5	0	0.004	
47	240.6	Upper Left	Crack-Horizontal	2	0.002	2	0	0.002	
48	241.8	Upper Left	Crack-Horizontal	2	0.002	2	0	0.002	
49	246.4		Sealed Off Wye East	1	0.000	0	0	0.000	
			6" Clay Wye Connection						
50	248.8		Sealed Off Wye West	1	0.000	0	0	0.000	
			6" Clay Wye Connection						
51	270.8		Sealed Off Wye East	1	0.000	0	0	0.000	
			6" Clay Wye Connection						
52	272.7		Sealed Off Wye West	1	0.000	0	0	0.000	
			6" Clay Wye Connection						
53	286.5	West (crown)	Break-In Conn	2	0.002	0	0	0.002	
			4" Break In Connection						
<b>715 E 13TH ST N</b>									
54	294.8		Sealed Off Wye East	1	0.000	0	0	0.000	
			6" Clay Wye Connection						
55	295.6	Crown	Crack-Radial	1	0.001	1	0	0.001	
56	296.8		Sealed Off Wye West	1	0.000	0	0	0.000	
			6" Clay Wye Connection						
57	297.8	Crown	Crack-Radial	2	0.002	2	0	0.002	
58	302.7	Upper Right	Crack-Horizontal	2	0.002	2	0	0.002	
59	304.0	Upper Right	Crack-Horizontal	2	0.002	2	0	0.002	
60	308.9	Camera Blocked		5	0.000	0	0	0.000	
			TILE TO BE REMOVED "BY OTHERS" (see tv log upstream of this segment)						
61	308.9	US Manhole	5548-291PR	5	0.000	0	0	0.000	

16-6

# Television Inspection Master Report

8/20/2007  
9:25:58AM

US Manhole: 5548-288      715 E 13TH N ST      Date Insp: 5/31/2005      Basin: C03C  
 DS Manhole: 5548-287      715 E 13TH N ST      Dir Televised: Downstream To Upstream

## Pipe Information

Shape: Round      Length Status:      Project No.: A-391  
 Dia/Ht Width: 8      Material: VCP      Index:  
 Length: 42.5      Slope: 0.262      Surface:

## Inspection Information

Crew: 692      Percent Full: 10      Tape ID: 4786  
 Weather: Cloudy      Purpose: TV Existing Line      Counter Start: 0  
 Surface Cond: Out Buildings      Flow: Normal Flow      Counter Stop: 6.57

Obs. #	VTR Counter Svc. Address	Distance	Location	Description	Obs Rating	Obsrvd (gpm)	Est. (gpm)	Ratings		
								Struct	Clean	Remain (gpm)
1		0.0	DS Manhole 5548-287 / tv against the flow					0.000	0	0
2		17.0	Crown	Broken Pipe	4		0.030	78	0	0.030
3		20.0	Crown	Broken Pipe	4		0.030	78	0	0.030
4		32.0	Crown	Broken Pipe	3		0.010	60	0	0.010
5		38.0	Crown	Broken Pipe	4		0.030	78	0	0.030
6		40.0	Crown	Observation Hole			0.000	0	0	
7		42.0	Crown	Broken Pipe	3		0.010	60	0	0.010
8		43.0	US Manhole 5548-288				0.000	0	0	

**THIS PIPE IS A RADIUS (CURVED LINE)**

16-7

# Television Inspection Master Report

8/20/2007  
9:25:58AM

US Manhole: 5548-287      715 E 13TH N ST      Date Insp: 6/1/2005      Basin: C03C  
DS Manhole: 5548-284      1309 N MOSLEY ST      Dir Televised: Upstream To Downstream

## Pipe Information

Shape: Round      Length Status:      Project No.: A-391  
Dia/Ht Width: 8      Material: VCP      Index:  
Length: 279.0      Slope: 0.251      Surface:

## Inspection Information

Crew: 692      Percent Full: 10      Tape ID: 4786  
Weather: Cloudy      Purpose: TV Existing Line      Counter Start: 10.32  
Surface Cond: Out Buildings      Flow: Normal Flow      Counter Stop:

Obs. #	VTR Counter	Distance	Location	Description	Obs Rating	Obsrvd (gpm)	Est. (gpm)	Ratings Struct	Clean	Remain (gpm)
1		0.0	US Manhole	5548-287			0.000	0	0	
2		57.0	South	Wye Service	2		0.000	0	0	0.000
ACTIVE SERVICE (loose tile in the service line)										
3		58.0	Crown	Broken Pipe	4		0.030	78	0	0.030
4		59.0	Invert	Broken Pipe	3		0.010	60	0	0.010
5		84.0	Crown	Broken Pipe	3		0.010	60	0	0.010
6		93.0	Crown	Observation Hole	1		0.000	0	0	0.000
7		134.0	Camera Lens Submerged				0.000	0	0	
8		149.0	Crown	Broken Pipe	3		0.010	60	0	0.010
9		167.0	Camera Lens Emerged				0.000	0	0	
10		171.0	Crown	Crack-Horizontal	3		0.004	5	0	0.004
11		173.0	Crown	Crack-Horizontal	3		0.004	5	0	0.004
12		183.0	Crown	Observation Hole	3		0.000	0	0	0.000
13		185.0	Crown	Crack-Horizontal	3		0.004	5	0	0.004
14		188.0	Crown	Crack-Horizontal	3		0.004	5	0	0.004
15		214.0	Crown	Crack-Horizontal	3		0.004	5	0	0.004
16		215.0	Crown	Crack-Horizontal	3		0.004	5	0	0.004
17		216.0	Crown	Broken Pipe	3		0.010	60	0	0.010
19		217.0	Invert	Broken Pipe	3		0.010	60	0	0.010
20		220.0	Crown	Crack-Horizontal	3		0.004	5	0	0.004
22		227.0	Crown	Crack-Horizontal	3		0.004	5	0	0.004
23		228.0	Crown	Crack-Horizontal	3		0.004	5	0	0.004
24		230.0	Crown	Crack-Horizontal	3		0.004	5	0	0.004
25		243.0	Crown	Crack-Horizontal	3		0.004	5	0	0.004
26		258.0	Crown	Broken Pipe	3		0.010	60	0	0.010
27		273.0	Crown	Broken Pipe	3		0.010	60	0	0.010
28		278.0	DS Manhole	5548-284			0.000	0	0	

Grade is poor. DSMH needs reworked. MH invert looks higher than incoming pipe

16-8

# Television Inspection Master Report

8/20/2007  
9:25:58AM

US Manhole: 5548-295      715 E 13TH N ST      Date Insp: 5/31/2005      Basin: C03C  
 DS Manhole: 5548-287      715 E 13TH N ST      Dir Televised: Downstream To Upstream

## Pipe Information

Shape: Round      Length Status:      Project No.: A-391  
 Dia/Ht Width: 8      Material: VCP      Index:  
 Length: 43.5      Slope: 0.253      Surface:  
 Pipe Sec Length:      Comment: POINT REPAIR BY SEWER MAINTENANCE FROM MH 295 GOING NORTH 5'. 6" LATERAL CONNECTION AT 1' NORTH OF MH. 4" LATERAL CONNECTION 2' NORTH OF MH. WORK COMPLETED 06-02-2005 TGC #####

## Inspection Information

Crew: 692      Percent Full: 10      Tape ID: 4786  
 Weather: Cloudy      Purpose: TV Existing Line      Counter Start: 6.57  
 Surface Cond: Out Buildings      Flow: Normal Flow      Counter Stop: 10.32

Obs. #	VTR Counter Svc. Address	Distance	Location Connection type:	Description	Obs Rating	Obsrvd (gpm)	Est. (gpm)	Ratings Struct	Clean	Remain (gpm)
1		0.0	DS Manhole 5548-287				0.000	0	0	
2		4.0	Quad 4 / U-Lt	Crack-Radial	3		0.004	5	0	0.004
3		40.0	West	Extended Tap 2"?	4		0.002	60	0	0.002
4		42.0	Invert	Broken Pipe	5		0.060	100	0	0.060
5		45.0	US Manhole	5548-295			0.000	0	0	

**THIS PIPE IS A RADIUS (CURVED LINE)**

**NOTE: The video was turned off at the extended tap and turned on again. There may be a second tap on this line segment (2 taps side-by-side). Camera did not make it into the downstream manhole.**

**The extended tap at 40 ft. looks like it is PVC. Contractor may need to cut off the extended portion in order to line the pipe.**

**16-9**