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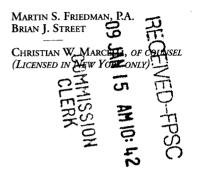
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REPLY TO CENTRAL FLORIDA OFFICE

January 15, 2009

**HAND DELIVERY** 

Ann Cole, Commission Clerk Office of Commission Clerk Florida Public Service Commission 2540 Shumard Oak Boulevard Tallahassee, FL 32399 CENTRAL FLORIDA OFFICE SANLANDO CENTER 2180 W. STATE ROAD 434, SUITE 2118 LONGWOOD, FLORIDA 32779 (407) 830-6331 FAX (407) 830-8522



RE: Docket No. 080248-SU; Tierra Verde Utilities, Inc.'s Application for an Increase in Wastewater Rates Increase in Pinellas County, Florida

Our File No.: 30057.156

Dear Ms. Cole:

Enclosed for filing in the above-referenced docket is information and supporting documentation responsive to Staff's December 8, 2008 request for additional information, Item No. 3. This contract was not available at the time of filing.

- 3. With regard to the "TV Sewer Mains" maintenance project reflected on MFR Schedule B-10, Line 1, please provide the following:
  - a detailed statement why this project is necessary;
  - b. a copy of any report or other documentation completed which reflect the findings or results from this project;
  - c. a copy of all support documentation, including but not limited to, invoices, contracts, estimate quotes, assumptions, workpapers, bases, and/or other documentation for the actual cost incurred from the commencement of the project to date and for the budgeted unamortized amount of \$76,452; and
  - d. state the primary operation and maintenance (O&M) expense account name and number that the Utility used to record this project in the 2007 test year, and, if more than one O&M DOCUMENT NUMBER-DATE

00394 JAN 158

FPSC-COMMISSION CLERK

Ann Cole, Commission Clerk Office of Commission Clerk Florida Public Service Commission January 15, 2009 Page 2

> expense account has been used to record this project, please provide a detail breakdown by amount and account of how the Utility is recording this project in the test year.

#### **RESPONSE:**

- 3(a) The "TV Sewer Mains" project reflects the effort to clean and video inspect two portions of the Tierra Verde collection system. The gravity main and manholes situated in the Pinellas Bayway right-of-way and the area west of the Pinellas Bayway along and adjacent to Madonna Avenue had not been cleaned and inspected for many years. A total of 6,229 LF of 18" diameter pipe was cleaned and inspected along the Pinellas Bayway. A total of 21,250 LF of 8" diameter pipe and manholes were inspected west of the Pinellas Bayway along Madonna Avenue. The projected is justified for the following reasons:
  - The Tierra Verde system is located on an island. As such, the groundwater table throughout the community is influenced by actions of the tide, rising twice a day. This causes head conditions to rise twice a day and thus provides additional hydraulic pressure on the underground piping system. As hydraulic pressure increases, more groundwater is forced into the collection system through deficient pipes or manholes.
  - The majority of the pipe in the collection system is made of vitreous clay pipe that historically has been more prone to leaks and pipe failures resulting in increased groundwater infiltration through those leaks.
  - The wastewater generated by the customers of Tierra Verde is treated by the City of St. Petersburg under a bulk sewer agreement. Since the City bills Tierra Verde Utilities, Inc. on a volumetric basis, any groundwater that flows through the City's flow meter adds to the cost of treatment.
  - In order to identify the location and severity of pipe deficiencies in the collection system, it was necessary to remove the accumulated solids in the piping system, and then remotely inspect the condition of the pipes.
  - After identifying the pipe and manhole deficiencies, a separate capital
    project was initiated to correct the deficiencies resulting in a reduction in
    groundwater infiltration. By this effort, the amount of wastewater
    delivered to the City of St. Petersburg for treatment was reduced. This
    resulted in a reduction in operating expense that is reflected in the test
    year financials.

- A copy of each of the two video inspection reports is attached hereto. 3(b)
- 3(c) Please see the documentation, attached hereto, for project 061-0646-118-03-01. The Company could not locate \$7,850 of supporting documentation, so the total project cost now amounts to \$68,601.65. The Company is also providing the deferred maintenance workpapers from 2004, 2005, 2006, and 2007 through November, as well as all of 2007 in the JD Edwards system. These workpapers show the amortization of the project cost of \$76,451.65 over five years, but since the project totals only \$68,601.65, the monthly amortization should be \$1,143.36, and the total 2007 amortization expense should have been \$13,720.32. Specifically, included in the documentation attached hereto are copies of invoices generated by Altair for their work on Pinellas Bayway and from Florida Jet Clean for the line cleaning work. Also attached hereto are copies of the signed contracts for each of the two phases of the project as well as copies of the inspection reports provided by Altair and Florida Jet Clean at the completion of their work.
- In the legacy system, GLAP, the project was recorded in account 1862054 -3(d)Deferred Charges - TV Sewer Mains, and the amortization expense was recorded in account 6759080 - Maintenance - Deferred Charges. In the current system JDE, the project was recorded in account 3030 - Deferred Charges - TV Sewer Mains, and 6355 - Deferred Maintenance Expense.

Should you or the Staff have any questions regarding this filing, please do not hesitate to give me a call.

Very truly yours,

CHRISTIAN W. MARCELLI

Of Counsel

CWM/tlc Enclosures

John P. Hoy, Chief Regulatory Officer (w/o enclosures) cc:

Patrick C. Flynn, Regional Director (w/o enclosures)

Ms. Deborah Swain (w/o enclosures)

Mr. Frank Seidman (w/o enclosures)

Mr. Dale Buys, Division of Economic Regulation (w/encs.) (via hand delivery)

Keino Young, Esq., Office of General Counsel (w/enclosures) (via hand delivery)

M:\1 ALTAMONTE\UTILITIES INC\TIERRA VERDE\(.156) 2008 RATE CASE\PSC Clerk 08 (Supplemental Response to Data Request 1).htr.doc

# Manhole Investigation

DOCUMENT NUMBER-DATE
00394 JAN 158
FPSC-COMMISSION CLERK

Tierra Verde / Utilities, Inc.

Job Number:

04-006-01

# SANITARY MANHOLE LISTING Manhole Number Corresponds to Lot Number



	Manhole ID Number	Manhole Number	MH Grade	Grade Amt.(in.)	Location
1	9-000-00A-00003-00	3	Above	2	Monte Cristo Blvd. and 4th Street West
2	9-000-00A-00040-00	40	At	0	8th Avenue North and 4th Street West
3	9-000-0BW-00001-00	1	At	0	340 Pinellas Bayway, in sidewalk
4	9-000-0BW-00002-00	2	At	0	360 Pinellas Bayway, In driveway
5	9-000-0BW-00003-00	3	At	0	380 Pinellas Bayway, in sidewalk
6	9-000-0BW-00004-00	4	At	0	522 Pinellas Bayway, in sidewalk
7	9-000-0BW-00005-00	5	At	0	534 Pinellas Bayway, in sidewalk
8	9-000-0BW-00006-00	6	At	0	544 Pinellas Bayway, in driveway
9	9-000-0BW-00007-00	7		0	Can Not Locate
10	9-000-0BW-00007-01	7A	At	0	557 Ciega Verde
11	9-000-0BW-00008-00	8	At	0	Car is parked over manhole.
12	9-000-0BW-00009-00	9	Above	2	722 Pinellas Bayway
13	9-000-0BW-00010-00	10	Above	2	738 Pinellas Bayway
14	9-000-0BW-00011-00	11	At	0	860 Pinellas Bayway, in sidewalk and driveway.
15	9-000-0BW-00012-00	12	At	0	900-918 Pinellas Bayway
16	9-000-0BW-00013-00	13	At	0	936 Pinellas Bayway
17	9-000-0BW-00014-00	14	At	0	1000 Pinellas Bayway, in sidewalk
18	9-000-0BW-00015-00	15	At	0	12th Street West and Pinellas Bayway
19	9-000-0BW-00016-00	16	At	0	1120 Pinellas Bayway, in sidewalk.
20	9-000-0BW-00017-00	17	At	0	Sands Point Drive and Pinellas Bayway, in sidewalk.
21	9-000-0BW-00018-00	18	At	0	Sand Point Drive, in sidewalk
22	9-000-0BW-00019-00	19	At	0	Sands Point Drive and 13th Street
23	9-000-0BW-00020-00	20	At	0	Sand Point Drive
24	9-000-0BW-00021-00	21	At	0	Sand Point Drive
25	9-000-0BW-00557-00	#557	At	0	557 Ciega Verde

Page 1 of 1

DOCUMENT NUMBER-DATE

00394 JAN 158

ClientName: Tierra Verde / Utilities, Inc.

Job Number: 04-006-01

### SANITARY MANHOLE INVESTIGATION REPORT REHABILITATION TECHNIQUE SELECTION TABLE



Manhole ID Number	Manhole Number		Manhole Location	Inspection Date	Inflow? (Y/N)	Infiltration Rate (GPM)	Infiltration Rate (GPD)	Rehab #1 (Inflow Protectors)	Rehab #2 (Chemical Grout)	Rehab #3 (Manhole Work)	Rehabilitation Total Cost
Mini-System # /	١										
9-000-00A-00003-00	3	9'2"	Easement	6/18/2004	No			\$0.00	\$0.00	\$4,100.00	\$4,100.00
9-000-00A-00040-00	40	7'3"	Street	6/18/2004	No			\$0.00	\$0.00	\$2,400.00	\$2,400.00
Sub-Totals	for Mini	-System	# A	<u> </u>	•	<u> </u>	<u></u>	\$0.00	\$0.00	\$6,500.00	\$6,500.00

ClientName: Tierra Verde / Utilities, Inc.

Job Number: 04-006-01

#### SANITARY MANHOLE INVESTIGATION REPORT REHABILITATION TECHNIQUE SELECTION TABLE



Manhole ID Number	Manhole Number	Manhole Depth	Manhole Location	Inspection Date	Inflow? (Y/N)	Infiltration Rate (GPM)	Infiltration Rate (GPD)	Rehab #1 (Inflow Protectors)	Rehab #2 (Chemical Grout)	Rehab #3 (Manhole Work)	Rehabilitation Total Cost
Mini-System # E	BW										
9-000-0BW-00001-00	1	5'7"	Easement	6/18/2004	No			\$0.00	\$0.00	\$1,900.00	\$1,900.00
9-000-0BW-00002-00	2	6'3"	Easement	6/18/2004	No			\$0.00	\$0.00	\$2,100.00	\$2,100.00
9-000-0BW-00003-00	3	7'7"	Easement	6/18/2004	No			\$0.00	\$0.00	\$2,500.00	\$2,500.00
9-000-0BW-00004-00	4	6'10"	Easement	6/18/2004	No			\$0.00	\$0.00	\$3,400.00	\$3,400.00
9-000-0BW-00005-00	5	8'9"	Easement	6/18/2004	No			\$0.00	\$0.00	\$0.00	\$0.00
9-000-0BW-00006-00	6	8,	Easement	6/18/2004	No			\$0.00	\$0.00	\$2,600.00	\$2,600.00
9-000-0BW-00007-00	7			6/18/2004				\$0.00	\$0.00	\$0.00	\$0,00
9-000-0BW-00007-01	7A	6'9"	Street	6/18/2004	No			\$0.00	\$0.00	\$0.00	\$0.00
9-000-0BW-00008-00	8			5/18/2004				\$0.00	\$0.00	\$0.00	\$0.00
9-000-0BW-00009-00	9	9'3"	Easement	5/18/2004	No			\$0.00	\$0.00	\$2,300.00	\$2,300.00
9-000-0BW-00010-00	10	9'7"	Easement	6/18/2004	No			\$0.00	\$0.00	\$3,900.00	\$3,900.00
9-000-0BW-00011-00	11	11'1"	Easement	6/18/2004	No			\$0.00	\$0.00	\$4,600.00	\$4,600.00
9-000-0BW-00012-00	12	11'1"	Easement	6/18/2004	No			\$0.00	\$0.00	\$3,600.00	\$3,600.00
9-000-0BW-00013-00	13	11'4"	Easement	6/18/2004	No			\$0.00	\$0.00	\$3,700.00	\$3,700.00
9-000-0BW-00014-00	14	12'7"	Easement	6/18/2004	No			\$0,00	\$0.00	\$4,100.00	\$4,100.00
9-000-0BW-00015-00	15	10"	Street	6/18/2004	No			\$0.00	\$0.00	\$3,300.00	\$3,300.00
9-000-0BW-00016-00	16	13'3"	Easement	6/18/2004	No			\$0.00	\$0.00	\$4,350.00	\$4,350.00
9-000-0BW-00017-00	17	12'6"	Easement	6/18/2004	No			\$0.00	\$0.00	\$0.00	\$0.00
9-000-0BW-00018-00	18	13'5"	Easement	6/18/2004	No			\$0.00	\$0.00	\$0.00	\$0.00
9-000-0BW-00019-00	19	6'6"	Easement	6/18/2004	Yes		T	\$300.00	\$0.00	\$2,400.00	\$2,700.00
9-000-0BW-00020-00	20	7"3"	Easement	6/18/2004	No			\$0.00	\$0.00	\$2,400.00	\$2,400.00
9-000-0BW-00021-00	21	6'6"	Easement	6/18/2004	No			\$0.00	\$0.00	\$3,200.00	\$3,200.00
9-000-0BW-00557-00	#557	6'9"	Street	6/18/2004	No			\$0.00	\$0.00	\$0.00	\$0.00
Sub-Totals	for Mini	-System	# BW			1	J	\$300.00	\$0.00	\$50,350.00	\$50,650.00

**Grand Totals** 

ClientName: Tierra Verde / Utilities, Inc.

Job Number: 04-006-01

### SANITARY SEWER MANHOLE INVESTIGATION REPORT INFLOW PROTECTOR DIMENSIONS SUMMARY



	Manhole ID Number	Manhole Number	Frame ID (in.)	Frame OD (in.)	Cover OD (in.)	Inflow? (Y/N)	Cover Condition	Frame Condition	Depressed Area? (Y/N)	MH Grade	Grade Amt.(in.)	Inflow Comments
N	Mini-System#	A					-					
1	9-000-00A-00003-00	3	21-1/8	22.75	22.5	No	Loose	Broken	No	Above	2	

ClientName: Tierra Verde / Utilities, Inc.

Job Number: 04-006-01

### SANITARY SEWER MANHOLE INVESTIGATION REPORT INFLOW PROTECTOR DIMENSIONS SUMMARY



	Manhole ID Number	Manhole Number	Frame ID (in.)	Frame OD (in.)	Cover OD (in.)	inflow? (Y/N)	Cover Condition	Frame Condition	Depressed Area? (Y/N)	MH Grade	Grade Amt.(in.)	Inflow Comments
N	lini-System#	BW										
3	9-000-0BW-00001-00	1	22	23.75	23.75	No	Good	Sound	No	At	0	
4	9-000-0BW-00002-00	2	21.25	22.75	22.75	No	Good	Sound	No	At	0	
5	9-000-0BW-00003-00	3	21.25	22.5	22.5	No	Loose	Loose	No	At	0	
6	9-000-0BW-00004-00	4	21.25	22.25	22-5/8	No	Loose	Loose	No	At	0	
7	9-000-0BW-00005-00	5	21.25	22.5	22.58	No	Loose	Sound	No	At	0	
8	9-000-0BW-00006-00	6	21	22.5	22-3/8	No	Good	Sound	No	At	0	
9	9-000-0BW-00007-00	7									0	
10	9-000-0BW-00007-01	7A	21	23	22.75	No	Good	Sound	No	At	0	
11	9-000-0BW-00008-00	8								At	0	
12	9-000-0BW-00009-00	9	22	22.75	23.75	No	Good	Sound	No	Above	2	
13	9-000-0BW-00010-00	10	21	22-5/8	22-3/8	No	Loose	Loose	No	Above	2	The second secon
14	9-000-0BW-00011-00	11	21-1/8	22.75	22.5	No	Loose	Sound	No	At	0	
15	9-000-0BW-00012-00	12	21-1/8	22.75	22.5	No	Loose	Sound	No	At	0	
16	9-000-0BW-00013-00	13	21-1/8	22.75	22.5	No	Loose	Sound	No	At	0	
17	9-000-0BW-00014-00	14	21-1/8	22.75	22.5	No	Loose	Sound	No	At	0	
18	9-000-0BW-00015-00	15	20-3/8	22.75	22.25	No	Good	Sound	No	At	0	
19	9-000-0BW-00016-00	16	21-1/8	22.75	22.5	No	Loose	Sound	No	At	0	
20	9-000-0BW-00017-00	17	21	22-7/8	22.75	No	Good	Sound	No	At	0	
21	9-000-0BW-00018-00	18	21-1/8	22.75	22.5	No	Loose	Loose	No	At	0	
22	9-000-0BW-00019-00	19	21-1/8	22.75	22.5	Yes	Loose	Sound	Yes	At	0	Between Frame and Cover
23	9-000-0BW-00020-00	20	21-1/8	22.75	22.5	No	Loose	Sound	No	At	0	
24	9-000-0BW-00021-00	21	21-1/8	22.75	22.5	No	Good	Sound	No	At	0	
25	9-000-0BW-00557-00	#557	21	23	22.75	No	Good	Sound	No	At	0	

Tierra Verde / Utilities, Inc.

Job Number:

04-006-01

### SANITARY SEWER MANHOLE INVESTIGATION REPORT REHABILITATION TECHNIQUE SELECTION TABLE

#### Mini-System # A



Structure Number	Str	ucture Inform	ation	PHYSICAL INSPECTION	Infiltration	Pahahilitation Tachniques Pensilation
	Item	Туре	Rating	Observations and Defects	Rate (GPM)	Rehabilitation Techniques Description
ID # 9-000-00A-00003-00 MH # 3 LS # 0 MS # A Inspection Date 6/18/2004	Depth Wall Material Ring/Cover Steps? Corbel Apron Trough Location Monte Cristo Blvd	9'2" Precast Cast iron No Precast Concrete Yes Easement d. and 4th Street	Medium Deterioration Loose None Medium Deterioration Good Good	Walls and Corbel are Medium Deteriorated. Frame is Broken and Rusted.	GPM	Line Manhole / Replace Ring and Cover
	Pipe ID # MiH MiH #A-40 MiH MiH	Pownstres Yes No No No	8 VCP 8 VCP 8 VCP 8 VCP 8 VCP	pe Depth Drop Present? Direction 9'2" No SW 9'2" No NW 9'2" No NE 7' Inside Drop SE	Manhole Shape is Round Diameter 4 Feet	Special Notes:
Structure Number	Stri Item	ucture Inform Type	ation Rating	PHYSICAL INSPECTION Observations and Defects	Infiltration Rate (GPM)	Rehabilitation Techniques Description
ID # 9-000-00A-00040-00 MH # 40 LS # 0 MS # A Inspection Date 6/18/2004	Depth Waii Material Ring/Cover Steps? Corbel Apron Trough Location 8th Avenue North	7'3" Precast Cast Iron No Precast Concrete Yes Street and 4th Street	Heavy Deterioration Good None Heavy Deterioration Good Good	Walls and Corbel are Heavily Deteriorated.	GPM	Line Manhole
	Pipe ID# MH #A-3 MH SC MH	Yes No No No	8 PVC 8 VCP 6 PVC 8 VCP	Depth   Drop Present?   Direction   7'3" No SE   5'10" Inside Drop SW   3'2" Inside Drop W   NE	Manhole Shape is Round Diameter 4 Feet	Special Notes:

Tierra Verde / Utilities, Inc.

Job Number:

04-006-01

### SANITARY SEWER MANHOLE INVESTIGATION REPORT REHABILITATION TECHNIQUE SELECTION TABLE

### Mini-System # BW



Structure Number	Str	ucture Inform	ation	PHYSICAL INSPECTION	Infiltration	Debebilitation Techniques Description
	ltem	Type	Rating	Observations and Defects	Rate (GPM)	Rehabilitation Techniques Description
ID # 9-000-0BW-00001-00 MH # 1 LS # 0 MS # BW Inspection Date 6/18/2004	Depth Wall Material Ring/Cover Steps? Corbel Apron Trough Location 340 Pinellas Bayv	5'7" Precast Cast iron No Precast Concrete Yes Easement vay, in sidewalk	Heavy Deterioration Good None Heavy Deterioration Good Good	Walls and Corbel are Heavily Deteriorated.	GРM	Line Manhole
	Pipe ID#		m? Pipe Size Pipe Ty			
	MH #BW-2	Yes	15 VCP	5'7" No SW	Manhole Shape is	Special Notes:
	FM SC	No No	10 VCP 6 VCP	5'7' No NE	Round	
			O VCP	4'5" No NW		
					Diameter	
					4 Feet	
Structure Number		ucture Inform		PHYSICAL INSPECTION	Infiltration	Rehabilitation Techniques Description
	Item	Type	Rating	<b>Observations and Defects</b>	Rate (GPM)	•
ID # 9-000-08W-00002-00 MH # 2	Depth Wali Material Ring/Cover	6'3" Precast Cast Iron	Heavy Deterioration Good	Walls and Corbel are Heavily Deteriorated		Line Manhole
LS# 0 MS# BW	Steps? Corbel Apron Trough	No Brick Concrete Yes	None Heavy Deterioration Good Good			
Inspection Date 6/18/2004	Location 360 Pinelias Bayw	Easement			GPM	
	Pipe ID#	Downstream			Manhole	Charles Materi
	MH #BW-3 MH #BW-1	Yes	15 VCP	6'3" No SW	Shape is	Special Notes:
	SC	No No	15 VCP 6 PVC	6'3" No NE 5'10" No NW	Round	
ļ		, 140	U PVC	2 10 140 1444	Diameter	
					į į	
ļ					4 Feet	

Tierra Verde / Utilities, Inc.

Job Number:

04-006-01

#### SANITARY SEWER MANHOLE INVESTIGATION REPORT REHABILITATION TECHNIQUE SELECTION TARKE



Structure Number	Structure Info	mation	PHYSICAL INSPECTION	Infiltration	Rehabilitation Techniques Description
455.44	Item Type	Rating	Observations and Defects	Rate (GPM)	Renamination rectifiques pescription
ID # 9-000-0BW-00003-00 MH # 3 LS # 0 MS # BW inspection Date 8/18/2004	Depth 7'7" Wall Material Precast Ring/Cover Cast Iron Steps? No Corbel Brick Apron Concrete Trough Yes Location Easement 380 Pinelias Bayway, in sidew	None Heavy Deterioration Good Good	Walls and Corbel are Heavily Deteriorated	GPM	Line Manhole
	Pipe ID # Downst MH #BW-4 Ye MH #BW-2 No SC No	15 VCP	pe Depth Drop Present? Direction 77" No SW 77" No NE 6'5" No NW	Manhole Shape is Round Diameter 4 Feet	Special Notes:
Structure Number	Structure Info	rmation Rating	PHYSICAL INSPECTION Observations and Defects	Infiltration Rate (GPM)	Rehabilitation Techniques Description
ID # 9-000-0BW-00004-00 MH # 4 LS # 0 MS # BW Inspection Date 6/18/2004	Depth 6'10" Wall Material Brick Ring/Cover Cast iron Steps? No Corbel Brick Apron Concrete Trough Yes Location Easement 522 Pinelias Bayway, in sidew	None Heavy Deterioration Good Good	Walls, Corbel and Frame are Heavily Deteriorated. Frame is Loose and Rusting.	GPM	Line Manhole / Replace Ring and Cover
	Pipe ID# Downst MH #BW-5 Ye MH #BW-3 No SC No	15 VCP	pe Depth Drop Present? Direction 6'10" No SW 6'10" No NE 5'7" No NW	Manhole Shape is Round Diameter	Special Notes:

Tierra Verde / Utilities, Inc.

Job Number:

04-006-01

### SANITARY SEWER MANHOLE INVESTIGATION REPORT

#### REHABILITATION TECHNIQUE SELECTION TABLE



Structure Number	Stru	ıcture informat	tion	PHYSICAL INSPECTION	Infiltration	Debakilla di T L
	ltem	Туре	Rating	Observations and Defects	Rate (GPM)	Rehabilitation Techniques Description
ID# 0-000-0BW-00005-00 MH # 5 LS # 0 MS # BW Inspection Date 6/18/2004	Depth Wall Material Ring/Cover Steps? Corbel Apron Trough Location 534 Pinellas Bayw	8'9" Precast Cast iron Yes Precast Concrete Yes Easement ay, in sidewalk	Good Loose Light Deterioration Good Good Good	Stormwater CIP Pipeline goes through MH.	GРM	
	Pipe ID # MH #BW-6 MH #BW-4	Pownstream Yes No	Pipe Size Pipe Ty 15 CIP 15 CIP	pe   Depth   Drop Present?   Direction   6'5"   No SW   6'5"   No NE	Manhole Shape is Round	Special Notes:
					Diameter 4 Feet	
Structure Number	Stru	icture informat Type	ion Rating	PHYSICAL INSPECTION Observations and Defects	Infiltration Rate (GPM)	Rehabilitation Techniques Description
HD# 000-0BW-00006-00 MH# 6 LS# 0 MS# BW	Depth Wall Material Ring/Cover Steps? Corbel Apron Trough	Concrete Yes	Heavy Deterioration Good None Heavy Deterioration Good Good	Walls and Corbel are Heavily Deteriorated.		Line Manhole
Inspection Date 6/18/2004	Location 544 Pinellas Baywa	Easement ay, in driveway			GPM	
	Pipe ID#	Downstream'		pe   Depth   Drop Present?   Direction		
	MH #BW-7 MH #BW-5 SC	Yes No No	15 VCP 15 VCP 6 PVC	8' No SW 8' No NE 5'6" Inside Drop NW	Manhole Shape is Round	Special Notes:
				<del></del>	Diameter 4 Feet	

Tierra Verde / Utilities, Inc.

Job Number:

04-006-01

#### SANITARY SEWER MANHOLE INVESTIGATION REPORT REHABILITATION TECHNIQUE SELECTION TARLE



Structure Number	Stri	ucture Informatio	on	PHYSICAL INSPECTION	Infiltration	Debabilitation Total
	ltem	Туре	Rating	Observations and Defects	Rate (GPM)	Rehabilitation Techniques Description
ID # 2-000-0BW-00007-00	Depth					
MH# 7	Wall Material Ring/Cover					
LS# 0	Steps?					
MS# BW	Corbel Apron					
	Trough					
Inspection Date 6/18/2004	Location Can Not Locate					
3732307	Out Not Locate				GPM	
	Pipe ID#	Downstream?	Pipe Size Pipe Ty	pe   Depth   Drop Present?   Direction		
	MH #BW-8	Yes		sw	Manhole Share is	Special Notes:
ļ	MH #BW-7	No	<del></del>	NE	Shape is	
					Diameter	
					Feet	
Structure Number	Stru	cture information	on	PHYSICAL INSPECTION	Infiltration	Pohobilitation Techniques Description
	Item	Туре	Rating	Observations and Defects	Rate (GPM)	Rehabilitation Techniques Description
ID # 9-000-08W-00007-01	ltern Depth	Type 6'9"	Rating	Observations and Defects		Renaumation recririques Description
9-000-0BW-00007-01	Depth Wall Material	6'9" Precast M	edium Deterioration			Reliabilitation rechinques bescription
9-000-08W-00007-01 MH # 7A	Depth Wall Material Ring/Cover	6'9" Precast Mc Cast Iron	edium Deterioration Good	Observations and Defects		Renaumation recririques Description
9-000-0BW-00007-01 MH# 7A LS# 0	Depth Wall Material Ring/Cover Steps? Corbel	6'9" Precast Mc Cast Iron No Precast Mc	edium Deterioration Good None edium Deterioration	Observations and Defects		Renaumation recririques Description
9-000-08W-00007-01 MH # 7A	Depth Wall Material Ring/Cover Steps? Corbel Apron	6'9" Precast Mc Cast Iron No Precast Mc Concrete	edium Deterioration Good None edium Deterioration Good	Observations and Defects		Renaumation recririques Description
P-000-0BW-00007-01  MH # 7A  LS # 0  MS # BW  Inspection Date	Depth Wall Material Ring/Cover Steps? Corbel Apron Trough Location	6'9" Precast Mc Cast Iron No Precast Mc	edium Deterioration Good None edium Deterioration	Observations and Defects		Renaumation recririques Description
9-000-0BW-00007-01 MH # 7A LS # 0 MS # BW	Depth Wall Material Ring/Cover Steps? Corbel Apron Trough	6'9" Precast Mc Cast Iron No Precast Mc Concrete Yes	edium Deterioration Good None edium Deterioration Good	Observations and Defects		Renaumation recririques Description
P-000-0BW-00007-01  MH # 7A  LS # 0  MS # BW  Inspection Date	Depth Wall Material Ring/Cover Steps? Corbel Apron Trough Location 567 Clega Verde	6'9" Precast Me Cast Iron No Precast Me Concrete Yes Street	edium Deterioration Good None edium Deterioration Good Good	Observations and Defects  Walls and Corbel are Medium Deteriorated.	Rate (GPM)	Reliabilitation recrimques Description
P-000-0BW-00007-01  MH # 7A  LS # 0  MS # BW  Inspection Date	Depth Wall Material Ring/Cover Steps? Corbel Apron Trough Location	6'9" Precast Me Cast Iron No Precast Me Concrete Yes Street	edium Deterioration Good None edium Deterioration Good	Observations and Defects  Walls and Corbel are Medium Deteriorated.	GPM Manhole	Special Notes:
D-000-0BW-00007-01  MH # 7A  LS # 0  MS # BW  Inspection Date	Depth Wall Material Ring/Cover Steps? Corbel Apron Trough Location 567 Clega Verde	6'9" Precast McCast Iron No Precast McConcrete Yes Street  Downstream?	edium Deterioration Good None edium Deterioration Good Good	Observations and Defects  Walls and Corbel are Medium Deteriorated.	GPM  Manhole Shape is	
D-000-0BW-00007-01  MH # 7A  LS # 0  MS # BW  Inspection Date	Depth Wall Material Ring/Cover Steps? Corbel Apron Trough Location 567 Clega Verde  Pipe ID # MH #BW-7 MH MH	6'9" Precast McCast iron No Precast McConcrete Yes Street  Downstream? Yes No No	edium Deterioration Good None edium Deterioration Good Good Pipe Size Pipe Typ 8 PVC 8 PVC 8 PVC	Observations and Defects  Walls and Corbel are Medium Deteriorated.  Depth Drop Present? Direction  6'9" No NW  6'9" No NE  6'9" No SE	GPM Manhole	
P-000-0BW-00007-01  MH # 7A  LS # 0  MS # BW  Inspection Date	Depth Wall Material Ring/Cover Steps? Corbel Apron Trough Location 567 Clega Verde  Pipe ID # MH #BW-7 MH	6'9" Precast McCast iron No Precast McConcrete Yes Street  Downstream? Yes No	edium Deterioration Good None edium Deterioration Good Good Pipe Size Pipe Typ 8 PVC 8 PVC	Observations and Defects  Walls and Corbel are Medium Deteriorated.  Depth   Drop Present?   Direction   6'9" No NW 6'9" No NE	GPM  Manhole Shape is	

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### SANITARY SEWER MANHOLE INVESTIGATION REPORT



Structure Number	Str	ucture Informa	ition	PHYSICAL INSPECTION	Infiltration	Debeline at the second
	Item	Туре	Rating	Observations and Defects	Rate (GPM)	Rehabilitation Techniques Description
ID # 9-000-0BW-0008-00	Depth					
MH# 8	Wall Material					
MITH 6	Ring/Cover Steps?					
LS# 0	Corbel					
MS# BW	Apron					
Inspection Date	Trough Location				ĺ	
5/18/2004	Car is parked over	er manhole			0.714	
	out to putting over	i iiwiiioic.			GPM	
	Pipe ID#		n? Pipe Size Pipe Ty	pe Depth Drop Present? Direction		
	MH #BW-9	Yes		SW	Manhole Shane is	Special Notes:
	MH #BW-7	No		NE	Shape is	
1					Diamata	
					Diameter	
	<u></u>				Feet	
Structure Number		ucture informa	tion	PHYSICAL INSPECTION	Infiltration	Rehabilitation Techniques Description
	Str.	ucture informat	tion Rating	PHYSICAL INSPECTION Observations and Defects		Rehabilitation Techniques Description
ìD#			1		Infiltration	
# D # 9-000-08W-00009-00	item  Depth  Wall Material	Type 9'3" Precast	1		Infiltration	Rehabilitation Techniques Description  Line Manhole
ìD#	Depth Wall Material Ring/Cover	9'3" Precast Cast iron	Rating Good Good		Infiltration	
id# 9-000-08W-00009-00 MH# 9 L\$# 0	Depth Wall Material Ring/Cover Steps?	9'3" Precast Cast iron No	Rating  Good  Good  None		Infiltration	
iD# 9-000-08W-00009-00 MH# 9	Depth Wall Material Ring/Cover	9'3" Precast Cast iron	Rating Good Good		Infiltration	
ID# 9-000-08W-00009-00 MH# 9 LS# 0 MS# BW	Depth Wall Material Ring/Cover Steps? Corbel Apron Trough	9'3" Precast Cast iron No Precast Concrete Yes	Rating  Good  Good  None  Good		Infiltration	
ID # 9-000-08W-00009-00 MH # 9 LS # 0 MS # BW	Depth Wall Material Ring/Cover Steps? Corbel Apron Trough Location	9'3" Precast Cast iron No Precast Concrete Yes Easement	Good Good None Good Good		Infiltration Rate (GPM)	
ID# 3-000-08W-00009-00 MH# 9 LS# 0 MS# BW	Depth Wall Material Ring/Cover Steps? Corbel Apron Trough	9'3" Precast Cast iron No Precast Concrete Yes Easement	Good Good None Good Good		Infiltration	
ID # 9-000-08W-00009-00 MH # 9 LS # 0 MS # BW	Depth Wall Material Ring/Cover Steps? Corbel Apron Trough Location	Type  9'3"  Precast  Cast Iron  No  Precast  Concrete  Yes  Easement	Good Good None Good Good	Observations and Defects	Infiltration Rate (GPM)	Line Manhole
ID # 9-000-08W-00009-00 MH # 9 LS # 0 MS # BW	Depth Wall Material Ring/Cover Steps? Corbel Apron Trough Location 722 Pinellas Bayw	Type 9'3" Precast Cast Iron No Precast Concrete Yes Easement vay  Downstream Yes	Good Good None Good Good Good Good Good VP Pipe Size Pipe Ty 18 VCP	Observations and Defects	Infiltration Rate (GPM)  GPM  Manhole	
ID # 9-000-08W-00009-00 MH # 9 LS # 0 MS # BW	Depth Wall Material Ring/Cover Steps? Corbel Apron Trough Location 722 Pinellas Bayw Pipe ID # MH #BW-10 MH #BW-8	9'3" Precast Cast Iron No Precast Concrete Yes Easement vay  Downstream Yes No	Good Good None Good Good Good Good Good Good Fire Pipe Size Pipe Ty 18 VCP	Depth Drop Present? Direction 9'3" No SW 9'3" No NE	Infiltration Rate (GPM)  GPM  Manhole Shape is	Line Manhole
ID # 9-000-08W-00009-00 MH # 9 LS # 0 MS # BW	Depth Wall Material Ring/Cover Steps? Corbel Apron Trough Location 722 Pinellas Bayw Pipe ID # MH #BW-10 MH #BW-8 SC	Type  9'3" Precast Cast Iron No Precast Concrete Yes Easement vay  Downstream Yes No No	Good Good Good Good Good Good Good Good	Depth Drop Present? Direction 9'3" No SW 9'3" No NE 7'11" Inside Drop W	Infiltration Rate (GPM)  GPM  Manhole	Line Manhole
ID # 9-000-08W-00009-00 MH # 9 LS # 0 MS # BW	Depth Wall Material Ring/Cover Steps? Corbel Apron Trough Location 722 Pinellas Bayw Pipe ID # MH #BW-10 MH #BW-8	9'3" Precast Cast Iron No Precast Concrete Yes Easement vay  Downstream Yes No	Good Good None Good Good Good Good Good Good Fire Pipe Size Pipe Ty 18 VCP	Depth Drop Present? Direction 9'3" No SW 9'3" No NE	Infiltration Rate (GPM)  GPM  Manhole Shape is	Line Manhole

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### SANITARY SEWER MANHOLE INVESTIGATION REPORT



Structure Number	St	ructure inform	nation	PHYSICAL INSPECTION	Infiltration	Debelius in Technique
ID#	Item	Туре	Rating	Observations and Defects	Rate (GPM)	Rehabilitation Techniques Description
9-000-0BW-00010-00 MH # 10	Depth Wail Material Ring/Cover	9'7" Precast Cast Iron	Heavy Deterioration	Walls and Corbel are Heavily Deteriorated. Frame is Loose.		Line Manhole / Repair Frame
	Steps?	No	Loose None			
LS# 0 MS# BW	Corbel	Precast	Heavy Deterioration			
	Apron Trough	Concrete Yes	Good Good			
Inspection Date	Location	Easement				
6/18/2004	738 Pinellas Bay	way	i		GPM	
	Pipe ID#	Downstrea	am? Pipe Size Pipe Ty	pe Depth Drop Present? Direction		
	MH #BW-11 MH #BW-9	Yes	18 VCP	9'7" No SW	Manhole Shape is	Special Notes:
	MH #BVV-9	No No	18 VCP 8 PVC	9'7" No NE 5'8" Inside Drop NW	Round	
	sc	No.	10 VCP	5'8" Inside Drop NW 8'8" No SE		
				OO NO GL	Diameter	
					4 Feet	
Structure Number		ructure Inform		PHYSICAL INSPECTION	Infiltration	Rehabilitation Techniques Description
	item	Туре	Rating	<b>Observations and Defects</b>	Rate (GPM)	
ID# -000-0BW-00011-00	Depth	11'1"		Walls, Corbel and Frame are Heavily		Line Marketin ( Part )
	Wall Material	Precast	Heavy Deterioration	Deteriorated. Frame is Rusting.		Line Manhole / Replace Ring and Cover
MH# 11	Ring/Cover	Cast Iron	Loose	g.	+	
LS# 0	Steps? Corbel	No Precast	None Heavy Deterioration			
MS# BW	Apron	Concrete	Good			
}	Trough	Yes	Good			
Inspection Date	Location	Easement				
6/18/2004	860 Pinelias Bay	way, in sidewali	and driveway,		GPM	
	Pipe ID #		m? Pipe Size Pipe Ty			
	MH #8W-12	Yes	18 VCP	9'1" No SW	Manhole Shape is	Special Notes:
· ·	MH #BW-10	No	18 VCP	9'1" No NE	Round	
	SC	No No	6 PVC 8 PVC	6'5" Inside Drop NW 6'5" Inside Drop NE		
	sc	140	O PVC	6'5" Inside Drop NE	Diameter	

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### SANITARY SEWER MANHOLE INVESTIGATION REPORT REHABILITATION TECHNIQUE SELECTION TABLE



Structure Number	Structure	Information	PHYSICAL INSPECTION	Infiltration	Debabilitation Techniques Description
ID.#	Item Typ	e Rating	Observations and Defects	Rate (GPM)	Rehabilitation Techniques Description
ID # 9-000-0BW-00012-00 MH # 12 LS # 0 MS # BW Inspection Date 6/18/2004	Depth 11" Wall Material Prec Ring/Cover Cast Steps? No Corbel Prec Apron Conc Trough Ye Location Easer 900-918 Pinelias Bayway	ast Heavy Deterioration Iron Loose None ast Heavy Deterioration rete Good s Good	Walls, Corbel and Frame are Heavily Deteriorated. Frame is Rusting.	GPM	Line Manhole
	Pipe ID# Dow MH #8W-13 MH #8W-11 SC SC Landmark Circle	vinstream?         Pipe Size         Pipe Typ           Yes         18         VCP           No         18         VCP           No         8         VCP           No         6         PVC           No         8         VCP	No SW No NE 6'5" Inside Drop NW 10'2" Inside Drop SE	Manhole Shape is Round Diameter 4 Feet	Special Notes:
Structure Number	Structure I	Information e Rating	PHYSICAL INSPECTION Observations and Defects	Infiltration Rate (GPM)	Rehabilitation Techniques Description
ID # 9-000-0BW-00013-00 MH # 13 LS # 0 MS # BW Inspection Date 6/18/2004	Depth 11'4 Wall Material Preci Ring/Cover Cast I Steps? No Corbel Preci Apron Conci Trough Ye: Location Easen 936 Pinelias Bayway	ast Heavy Deterioration Iron Loose None ast Heavy Deterioration rete Good S Good	Walls, Corbel and Frame are Heavily Deteriorated. Frame is Rusting.	GPM	Line Manhole
	Pipe ID # Dow MH #BW-14 MH #BW-12 SC	restream? Pipe Size Pipe Typ Yes 18 VCP No 18 VCP No 6 VCP	e Depth Drop Present? Direction 11'4" No SW 11'4" No NE 6'7" Inside Drop NW	Manhole Shape is Round Diameter 4 Feet	Special Notes:

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### SANITARY SEWER MANHOLE INVESTIGATION REPORT REHABILITATION TECHNIQUE SELECTION TABLE



Structure Number	Stru Item	ucture Information Type Rating	PHYSICAL INSPECTION Observations and Defects	Infiltration Rate (GPM)	Rehabilitation Techniques Description	
ID # 9-000-08W-00014-00 MH # 14 LS # 0 MS # BW Inspection Date 6/18/2004	Depth Wall Material Ring/Cover Steps? Corbel Apron Trough Location 1000 Pinellas Bayn	12'7" Precast Heavy Deterioration Cast Iron Loose No None Precast Heavy Deterioration Concrete Good Yes Good Easement rway, in sidewalk	Solorous San	GPM	Line Manhole	
	Pipe ID # MH #BW-15 MH #BW-13 SC MH	No 18 VC No 6 PV	OP 12'7" No SW	Manhole Shape is Round Diameter 4 Feet	Special Notes:	
Structure Number	Stru	ucture Information  Type Rating	PHYSICAL INSPECTION Observations and Defects	Infiltration Rate (GPM)	Rehabilitation Techniques Description	
ID # 9-000-0BW-00015-00 MH # 15 LS # 0 MS # BW Inspection Date 6/18/2004		10' Precast Heavy Deterioration Cast Iron Good No None Precast Heavy Deterioration Concrete Good Yes Good Street and Pinelias Bayway		GPM	Line Manhole	
	Pipe ID # MH #BW-16 MH #BW-14 SC MH	Downstream?   Pipe Size   Pipe   Yes   18	CP 10' No SW CP 10' No NE	Manhole Shape is Round Diameter	Special Notes:	

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#### SANITARY SEWER MANHOLE INVESTIGATION REPORT REHABILITATION TECHNIQUE SELECTION TARKE



Structure Number	Str	ucture Informatio	on		PHYSICAL INSPECTION Infiltration			D-L-L-RACE TO L
	Item	Туре	Rating		Observations		Rate (GPM	Rehabilitation Techniques Description
ID # 9-000-0BW-00016-00 MH # 16 LS # 0 MS # BW Inspection Date 6/18/2004	Depth Wall Material Ring/Cover Steps? Corbel Apron Trough Location 1120 Pinelias Bay	Cast Iron No Brick H Concrete Yes Easement	Heavy Deterioration Loose None Heavy Deterioration Good Good	1	nd Corbel are H		ated.	Line Manhole
	Pipe ID# MH #BW-17 MH #BW-15 SC	Downstream? Yes No No	Pipe Size Pipe 18 V0 18 V0 6 Pi	P 13'3"	Drop Present? No No Inside Drop	SW NE SW	Manhole Shape is Round Diameter 4 Fe	Special Notes:
Structure Number	Str	ucture Informatio	on Rating		PHYSICAL IN		Infiltration Rate (GPM)	Rehabilitation Techniques Description
ID # ID # ID # ID # ID # ID # ID # ID #	Depth Wall Material Ring/Cover Steps? Corbel Apron Trough Location	12'6" Lined Cast Iron No Lined Concrete Yes Easement e and Pinelias Bayy	Good Good None Good Good Good		Observations has a fiberglas	<del></del>	GPM	
	Pipe ID # MH #BW-18 MH #BW-16 MH #BW-19 Force Main SC	Downstream? Yes No No No No	18 VC 18 VC 18 VC 10 PV 4 PV 6 PV	P 12'6" P 12'6" C 6'7" C 3'7"	No No No Inside Drop Inside Drop	Direction W N E S S	Manhole Shape is Round Diameter 4 Fee	Special Notes:

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### SANITARY SEWER MANHOLE INVESTIGATION REPORT



Structure Number	Str	ucture Informati	ion	PHYSICAL INSPECTION	Infiltration	Debahiliteria. Tarkaina B
	Item	Туре	Rating	Observations and Defects	Rate (GPM)	Rehabilitation Techniques Description
ID # -000-0BW-00018-00	Depth Well Meterial	13'5"		Manhole has a fiberglass liner.		
MH# 18	Wali Material Ring/Cover	Lined Cast Iron	Good Loose			
	Steps?	No	None			
LS# 0 MS# BW	Corbel	Lined	Good			
MO# DVV	Apron	Concrete	Good			
Inspection Date	Trough Location	Yes Easement	Good			
6/18/2004	Sand Point Drive,				GPM	
	Pipe ID#	Downstream	Pipe Size   Pipe Ty	pe   Depth   Drop Present?   Direction		
	Lift Station	Yes	18 VCP	13'5" No S	Manhole	Special Notes:
	MH #BW-17	No	18 VCP	13'5" No E	Shape is	
	Force Main	No	4 PVC	3'4" Inside Drop W	Round	
	sc	No	10 PVC	5' Inside Drop N	Diameter	
	sc	No	10 PVC	5' Inside Drop NE	4 Feet	
Structure Number	Stri	ucture Informati	on	PHYSICAL INSPECTION	Infiltration	Rehabilitation Techniques Description
	ltern	Туре	Rating	Observations and Defects	Rate (GPM)	Nonabilitation recliniques bescription
ID # 9-000-0BW-00019-00	Depth	6.6		Walls and Corbel are Medium Deteriorated.		Line Manhole
	Wall Material		Medium Deterioration			Zill o Marijote
MH# 19	Ring/Cover	Cast Iron	Loose			
LS# 0	Steps? Corbei	No Precast N	None fedium Deterioration	Manhole is in a relative low corner of		Install Inflow Protector
MS# BW	Apron	Concrete	Good	intersection. Area: 3' x 3' Depth: 1"		
	Trough	Yes	Good			
Inspection Date	Location	Easement				
6/18/2004	Sands Point Drive	and 13th Street			GPM	
	Pipe iD#		Pipe Size Pipe Ty		Maghala	Smarial Natary
ī	MH #BW-17	Yes	8 VCP	66 No N	Manhole Shape is	Special Notes:
	MH #BW-20	No	8 VCP	6'6" No S	Round	
					LECTRIC	
	MH	No	8 VCP	5'5" Inside Drop W		
		No	8 VCP	5'5' Inside Drop W	Diameter	

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#### SANITARY SEWER MANHOLE INVESTIGATION REPORT REHABILITATION TECHNIQUE SELECTION TABLE



Structure Number	Stru	cture inform	nation	PHYSICAL INSPECTION	Infiltration	Rehabilitation Techniques Description
ID#	Item	Туре	Rating	Observations and Defects	Rate (GPM)	renavilitation recriniques Description
9-000-0BW-00020-00 MH # 20 LS # 0 MS # BW Inspection Date 6/18/2004	Depth Wall Material Ring/Cover Steps? Corbel Apron Trough Location Sand Point Drive	7'3" Precast Cast Iron No Brick Concrete Yes Easement	Heavy Deterioration Loose None Heavy Deterioration Heavy Deterioration Heavy Deterioration	Walls, Corbel, Apron and are Heavily Deteriorated. Frame is Rusting.	GPM	Line Manhole
	Pipe ID# NH #BW-19 MH #BW-21 SC	Pownstres Yes No No	8 VCP 8 VCP 6 VCP	pe   Depth   Drop Present?   Direction   7'3" No N   4'10"   Inside Drop S   E	Manhole Shape is Round Diameter 4 Feet	Special Notes:
Structure Number	Stru	cture Inform	nation Rating	PHYSICAL INSPECTION Observations and Defects	Infiltration Rate (GPM)	Rehabilitation Techniques Description
ID # 9-000-0BW-00021-00 MH # 21 LS # 0 MS # BW Inspection Date 6/18/2004	Depth Wall Material Ring/Cover Steps? Corbel Apron Trough Location Sand Point Drive	6'6" Precast Cast Iron No Precast Concrete No Easement	Heavy Deterioration Good None Heavy Deterioration Good	Walls and Corbel are Heavily Deteriorated. Frame is Rusting.	GPM	Line Manhole
	Pipe ID# MH #BW-20 SC Force Main	Downstrea Yes No No	8 VCP 6 VCP 6 CMP	pe Depth Drop Present? Direction 6'6" No SE 4'4" Inside Drop NE 3' Inside Drop SE	Manhole Shape is Round Diameter	Special Notes:

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### SANITARY SEWER MANHOLE INVESTIGATION REPORT REHABILITATION TECHNIQUE SELECTION TABLE



Structure Number			PHYSICAL INSPECTION				Infiltration	Rehabilitation Techniques Description		
	Item	Туре	Rating	1	(	Observations	and Defects		Rate (GPM)	
ID # 9-000-08W-00557-00 MH # #557 LS # 0 MS # BW Inspection Date 6/18/2004	Depth Wall Material Ring/Cover Steps? Corbel Apron Trough Location 567 Clega Verde	6'9" Precast Cast Iron No Precast Concrete Yes Street	Medium Detei Good None Medium Detei Good Good	rioration	Walls and	d Corbel are M	edium Deterio	rated.	GРM	
	Pipe ID#	Downstrea	m? Pipe Size	Pipe Typ	e Depth	Drop Present	Direction			
	MH #BW-7	Yes	8	PVC	6'9"	No	NW		Manhole	Special Notes:
	MH	No	8	PVC	6'9"	No	NE		Shape is	
	MH	No	8	PVC	6'9"	No	SE		Round	
	MH	No	8	PVC	69	No	sw		Diameter	
			_						4 Feet	



JOB # 04-06-01 IN	VESTIGATO	R STRUG	ole	D/	ATE 08-18-04
MANHOLE #8w- 1	MINI SY	STEM BW	S	TREET[]	EASEMENT [ +
MANHOLE COVER: O.D. 2	Wastas BASIL	UAY		W	EATHER Clean
MANHOLE COVER: O.D. 23	53(4 IN.				
CONDITION OF FIT:			<del></del>	7777	COVES.
GOOD [ LOOSE [ ] BRO	OKEN[] SEA	ALED[]	- / / / / / / / / /		RING (FRAME)
NUMBER OF HOL		<u>\IN</u>			CORBEL WORK
OPEN [] CL	OSED[]		DEPTH TO		APRONS
MANHOLE FRAME: I.D.: ZZ	IN. O.D.: <u>23</u>	3/4 IN.	INVERT	STEPS	TROUGH
CONDITION: SOUND [ ] B	ROKEN[] LO	OSE[]	5)	F/ / / [	
GRADE: AT [ ABOVE [ ]	BELOW[]	IN.		۳ / /	
OFFSET: NO [ YES	S[]	IN	4	P //	
CORBEL AND WALLS: OTHER:			EVIDENCE		DROP
CONSTRUCTION: BRICK[]	PRECAST [ 101	HER[] GF	ROUNDWATER		
CONDITION: GOOD [ ] DE	TERIORATING [ ]		IN.		SEWER INVERT
LIGHT[] M	EDIUM [ ] HEA'	V (1 -	<u> </u>		<b>—</b>
APRON AND TROUGH:					
CONDITION: GOOD [ PO	OR[]			H EM	SEWER INVERT LELEVATION
REMARKS:					I ELEVATION
DEPOSITION: TYPE	DEPTHIN		6'50	/	1
STEPS: (#)			3	4	
NO[] YES[] GO	OD[] POOR[	]	الا		
INFLOW:	_			115	TOP VIEW
EVIDENCE OF YES[] NO				1 1	
LOCATION					
IS MANHOLE IN A DEPRESSED	AREA? YES[]	NO [4]			
DESCRIBE LOCATION					DEPTHIN
POTENTIAL AREA DRAINED	) (FT. X FT.)				
INFILTRATION: YES[] NO	RATE (GP	M):	_		
LOCATION					
SURCHARGING: YES[] NO[	PAST[] PR				
	NW	NE INCOMI			OUTGOING
PIPE DATA	**6'5C	WHY TO E.W.		МН	MH Z
	DROP[]	DROP[]	DROP[]	DROP[]	DROP[]
TYPE	P/C	VCP		IAI IAI	15" IN.
DIAMETER	6" IN. 4 FT. 5"IN.	<u>∫</u> 6" IN. ≤ FT. → IN.	FT.	IN. FT. IN	7 5 5
DEPTH REMARKS:	7 FL 5 IN.	FI. 1 IN.	<u>                                     </u>	114. j F1. (P	1.   O F1. 1 IIV.
USE BACK OF SHEET FOR ADDED	INFORMATION:			МАНО	LE INVESTIGATION FORM

1	19	1 4		# 69	R>A'	
	Final		. C	Ž		
_		En	iron	me	21.11	(

JOB # 04-06-01 INV	/ESTIGATO	R STRUB	ile	DA	ATE 06-18-04
MANHOLE # BWI- Z	MINI SY	STEM BY	ST	REET[]	Delueway EASEMENT [4]
LOCATION 360 PINEL	LLAS BAYWA	LΥ		WE	EATHER CLOSE
CONDITION OF FIT:			· / / / / / / / / / / / / / / / / / / /		COVER
GOOD[/ LOOSE[] BRO					RING (FRAME)
NUMBER OF HOLE		12 IN.			CORBEL WORK
OPEN (4)	DSED[]	_	DEPTH TO		APRONS
MANHOLE FRAME: I.D.:	IN. O.D.: 22	44 IN.	INVERT	STEPS	TROUGH
CONDITION: SOUND [ ] BF	ROKEN[] LO	OSE[]	63"	$\mathcal{I} = I \cap \mathcal{I}$	
GRADE: AT [ ABOVE [ ]	BELOW[]	IN.		/ / /	
OFFSET: NO[] YES				///	
CORBEL AND WALLS: OTHER:		1	EVIDENCE		DROP
CONSTRUCTION: BRICK [ +)F			OF TOUNDWATER	///	
CONDITION: GOOD [ ] DETE			in.		SEWER INVERT
• •	DIUM [ ] HEA		<u> </u>		<del>                                     </del>
APRON AND TROUGH:					
CONDITION: GOOD [ ] POO	RII		t	;	SEWER INVERT
REMARKS:					ELEVATION
DEPOSITION: TYPE			654		
STEPS: (#)		- N	3 =	j	
NO [ YES [ ] GOO	D[] POOR[	1			
INFLOW:				11	TOP VIEW
EVIDENCE OF YES[] NO[	1				
LOCATION				1	
IS MANHOLE IN A DEPRESSED A	AREA? YES[]	NO [4			
DESCRIBE LOCATION					DEPTHIN.
POTENTIAL AREA DRAINED	(FT. X FT.)				
INFILTRATION: YES[] NO[	RATE (GP	M):	_		
LOCATION					
SURCHARGING: YES[] NO[]	PAST[] PRI	ESENT[] DEF	PTHIN.		,
	NW	NE INCOMIN	NG LINES		5W OUTGOING
PIPE DATA	# 6"SC	мн 1	MH	мн	мн 3
	DROP[]	DROP[]	DROP[]	DROP[]	DROP[]
TYPE	PVC	VCP			VCP 15 IN.
DIAMETER	5 FT. \6 IN.	15 IN. 6FT. 3 IN.	IN.	IN.	1 2
DEPTH REMARKS:	FT. YO IN.	1 611. JIN.	FT, IN.	FT. IN.	G F1. 3 HV.
USE BACK OF SHEET FOR ADDED IN	FORMATION.			MANHOL	E INVESTIGATION FORM

	A	1	<b>~</b>	¥	EM?	
/	A Three B	16	8	é		
_	_	Envi	roni	726	ntal	Grout

JOB # <u>04-06-01</u> IN	VESTIGATO	R Steub	sle	DA	TE06-18-04
MANHOLE #8艸ろ	MINI SY	STEM B	<u>w</u> s	TREET[]	EASEMENT [X]
LOCATION 380 PM MANHOLE COVER: C.D. 26	sellas Bar	rus'r		WE	EATHER CLOAK
					OC:VED
CONDITION OF FIT:		1551	177777777	111	777
GOOD[] LOOSE[/ BF	OKEN[] SEA	LED[]			RING (FRAME)
	LES \ SIZE	<u>1</u>	DEDTU-50		CORBEL WORK
OPEN [/	• •	,	DEPTH TO INVERT		APRONS
MANHOLE FRAME: I.D.: 217	<u> 1</u> и. о.р.: <u>ДД</u>	九_IN.	7'7"	STEPS	TROUGH
CONDITION: SOUND[]	BROKEN[] LO	OSE [	1		
GRADE: AT [ ABOVE [ ]	BELOW[]	IN.			
OFFSET: NO[ YE	S[]	IN. ·	A	F //	
CORBEL AND WALLS: OTHER			EVIDENCE OF	F / /	DROP
CONSTRUCTION: BRICK[	PRECAST ( OT	HER (1 G	ROUNDWATER		
CONDITION: GOOD [ ] DE		1	IN.		SEWER INVERT
	MEDIUM [ ] HEA	1	<u> </u>		
APRON AND TROUGH:					
CONDITION: GOOD [ ] PO	OR L 1				SEWER INVERT
REMARKS:					ELEVATION
DEPOSITION: TYPE		K-	8"sc		
	DEPTHIN		7 -		
STEPS: (# O )  NO[+ YES[] G	DODII POORI		<u> </u>	$\downarrow$	
INFLOW:					TOP VIEW
EVIDENCE OF YES[] NO				V	
LOCATION	J [-]			٧	
	DADEAD VEC. 1	- NO ( )			
IS MANHOLE IN A DEPRESSE					חבחדט וגו
DESCRIBE LOCATION					DEPTHIN
POTENTIAL AREA DRAINE					
INFILTRATION: YES[] NO	RATE (GP	M):			
LOCATION					
SURCHARGING: YES[] NO		ESENT[] DE	PTHIN.		SIN OUTGOING
PIPE DATA	NW Sc	MHBWZ	MH	мн	MHEW C
I II E BATA	DROP[]	DROP[]	DROP[]	DROP[]	DROP[]
TYPE	VCP	VCP			VCP
DIAMETER	8" IN.	15 IN.		IN. IN.	1
DEPTH	6 FT.5"IN.		FT.	IN. FT. IN	. 7 FT. 7 IN.
REMARKS:					
USE BACK OF SHEET FOR ADDED	INFORMATION:			MANHOL	E INVESTIGATION FORM

Alta	2 24°	
MILO		
Environ	mental Group	7.

JOB# <u>04-06-01</u> INV	ESTIGATOR	R_5T-	ble	D.	
MANHOLE # BM H	_ MINI SYS	STEM <u>S</u>	<u>√</u> s	TREET[]	EASEMENT [X]
LOCATION 522 Pinocy	US BAYM	A~{		W	EATHER
MANHOLE COVER: O.D. <u>235/</u>	3, IN.				
CONDITION OF FIT:					COVER
GOOD[] LOOSE[/ BROK	(EN[] SEA	LED[]	<i>(11/1/1/1/1/</i>		RING (FRAME)
NUMBER OF HOLE	S SIZE _	<u>1</u> IN.			CORBEL WORK
OPEN [ CLO	SED[]	!	DEPTH TO		APRONS
MANHOLE FRAME: I.D.: Z1'4	IN. O.D.: 22	<u>/</u> LIN.	INVERT	STEPS	TROUGH
CONDITION: SOUND [] BR			6'10"		
GRADE: AT [ ABOVE [ ] E	BELOW[]	IN.		¬' / /	
OFFSET: NO [ YES [				¬ //	
CORBEL AND WALLS: OTHER: _		1	EVIDENCE	<b>a</b> //	DROP
CONSTRUCTION: BRICK [ ] PI	•		OF OUNDWATER	/ /	
CONDITION: GOOD [ ] DETE			iN.		SEWER INVERT
LIGHT[] ME			<u> </u>		<u> </u>
APRON AND TROUGH:	. ,				
CONDITION: GOOD [ ] POOF	311		!		SEWER INVERT
REMARKS:			1		ELEVATION
DEPOSITION: TYPE		1	50	_ ' ' '	\'\'
STEPS: (# ° )		N N	\		
NO YES[] GOO	D[] POOR[		J	\ \ \ \ \ \	/
INFLOW:	_			1	TOP VIEW
EVIDENCE OF YES[] NO[				V	
LOCATION		_			
IS MANHOLE IN A DEPRESSED A	REA? YES[]	NO[+			
DESCRIBE LOCATION					DEPTHIN
POTENTIAL AREA DRAINED (	FT. X FT.)				
INFILTRATION: YES[] NO[					
LOCATION					
SURCHARGING: YES[] NO[7	PAST[] PRE	ESENT[] DEF	PTHIN.		
	NW	NE INCOMIN			W OUTGOING
PIPE DATA	MH SC	мн 3	MH	MH	MH 5
	DROP[]	DROP[]	DROP[]	DROP[]	DROP[]
TYPE DIAMETER	VC9	VCP IN.		N. II	N. 15 IN.
	5 FT. ) IN.	6 FT. (Ö IN.			IN. 6 FT. LON.
DEPTH REMARKS:	F1. 1 IIV.	<u> </u>		أحديد كالمشاهر والمساونات	
					DIE INVESTIGATION FOR
USE BACK OF SHEET FOR ADDED IN	FORMATION:			MANHO	DLE INVESTIGATION FORM

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(	$\Lambda$		ta	O	P**	
	Found		LO	A	E.	Circ

								TE 00-18-04
MANHOLE # Zw. S	_ MINI SY	STEM _	BW		STR	EET[		SINGUALIC EASEMENT [X
LOCATION 534 Process  MANHOLE COVER: O.D. 305  CONDITION OF FIT: # ( GOOD [] LOOSE [] BROKE  NUMBER OF HOLE  OPEN [] CLO  MANHOLE FRAME: I.D.: 21/4  CONDITION: SOUND [] BR  GRADE: AT [] ABOVE [] E  OFFSET: NO [] YES [ CORBEL AND WALLS: OTHER: _ CONSTRUCTION: BRICK [] PI  CONDITION: GOOD [] DETE	SAYOU BAYOU BELOW [] CRECAST [-] OT	MAY  LED[]  LIN.  OSE[]  IN.  HER[]	DE IN	PTH TO  NVERT  DENCE  OF  NDWATER  IN.				ATHER COAT  OVER  RING (FRAME)  CORBEL WORK  APRONS  TROUGH  DROP  SEWER INVERT
APRON AND TROUGH:  CONDITION: GOOD [ POOF REMARKS:  DEPOSITION: TYPE  STEPS: (#)  NO [ ] YES [ ] GOOD  INFLOW:  EVIDENCE OF YES [ ] NO [ POOF LOCATION]  IS MANHOLE IN A DEPRESSED A DESCRIBE LOCATION  POTENTIAL AREA DRAINED (INFILTRATION: YES [ ] NO [ POOF LOCATION]  POTENTIAL AREA DRAINED (INFILTRATION: YES [ ] NO [ POOF LOCATION]	DEPTHIN. D[] POOR[  REA? YES[]	NO [1]						SEWER INVERT ELEVATION  TOP VIEW  DEPTHIN
LOCATIONSURCHARGING: YES[] NO[]	NE		OMING	LINES				SWOUTGOING
PIPE DATA  TYPE  DIAMETER	MHBWY DROP[] C.T N.	MH DROP[]	DF	H ROP[]	IN.	MH DROP[]	IN.	MHBWE6 DROP[] CI 15 IN.
DEPTH  REMARKS:  (ONFLICTIVE MILL)  USE BACK OF SHEET FOR ADDED IN	OFT. S IN.	FT.	IN.	FT.	IN.		IN.	6 FT.5 IN.

/		\				
	A	E 4		2	<b>934</b> 0	
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JOB# <u>@9-06-01</u> INV	ESTIGATO	RSTULL	JE .	DA	TE 06-18-04
MANHOLE # 😓	MINI SY	STEM 3	<u>)</u> \$1	REET[]	EASEMENT [k
LOCATION 544 Proce		)A(		WE	ATHER deak
MANHOLE COVER: O.D 203	<u>18IN.</u>				
CONDITION OF FIT:					COVER
GOOD [/ LOOSE[] BRO			/////////////	1	RING (FRAME)
NUMBER OF HOLE	s _ \ size _	2 IN.			CORBEL WORK
OPEN [ ] CLC	DSED[T		DEPTH TO		APRONS
MANHOLE FRAME: I.D.: 31	IN. O.D.: Z	2/2 IN.	INVERT S	STEPS	TROUGH
CONDITION: SOUND [ T BF	ROKEN[] LO	OSE[] -	0		
GRADE: AT [ ABOVE [ ]	BELOW[]	IN.		o' / /	
OFFSET: NO[/ YES	[]	IN.   -	-	o / /	DROP
CORBEL AND WALLS: OTHER:			EVIDENCE OF		DROP
CONSTRUCTION: BRICK[]F	RECAST ( TOT	HER[] GR	ROUNDWATER	///	
CONDITION: GOOD[] DET	ERIORATING [ †	_   .	IN.		SEWER INVERT
LIGHT[] ME	DIUM [ ] HEAV	MIT -			
APRON AND TROUGH:				1	SEWER INVERT
CONDITION: GOOD [7 POO	R[]		1	W.	ELEVATION
REMARKS:			1		
DEPOSITION: TYPE	_DEPTHIN	A.	5° 1	'	
STEPS: (#)		(- N	7	1	
NO [ YES[] GOO	DD[] POOR[	]	<i>y</i>		TOP VIEW
INFLOW:				V	101.1121
EVIDENCE OF YES[] NO[	7			Δ	
LOCATION		-			
IS MANHOLE IN A DEPRESSED	AREA? YES[]	NO[}			
DESCRIBE LOCATION					DEPTHIN
POTENTIAL AREA DRAINED	(FT. X FT.)				
INFILTRATION: YES[] NO[	RATE (GP	M):	-		
LOCATION					
SURCHARGING: YES[] NO[-		ESENT[] DEF	PTHIN.		SW OUTGOING
PIPE DATA	NW	NE INCOMI	MH	MH	MH 7
PIPE DATA	DROP [1	DROP[]	DROP[]	DROP[]	DROP[]
TYPE	PVC	VeP			VCP
DIAMETER	G' IN.	15' IN.	lr.	N. IN.	15" IN.
DEPTH	5 FT. 6 IN.	OFT. IN.	FT.	N. FT. IN	BFT. IN.
REMARKS:					
USE BACK OF SHEET FOR ADDED IN	FORMATION.			MANHOL	E INVESTIGATION FORM
DOE DUCK OF SHIELF FOR ADDED IN					



USE BACK OF SHEET FOR ADDED INFORMATION:

## Tierra Verde / Utilities, Inc.

JOB # <u>04-06-01</u> INV	ESTIGATO	R Strub	NE !		DA	ATE 6-	E-04
MANHOLE # &vv-8	MINI SY	STEM		STF	REET[]	EASEM	ENT [
LOCATION Parke	D OUE	-K			WE	EATHER	₹
MANHOLE COVER: O.D.	IN.						
CONDITION OF FIT:				,,,,	7	CCVER	
GOOD[] LOOSE[] BRO	KEN[] SEA	LED[]	(////////	///	1	RING	3 (FRAME)
NUMBER OF HOLE	S SIZE	IN.				CORE	BEL WORK
OPEN [ ] CLO	DSED[]		DEPTH TO			APR	ONS
MANHOLE FRAME: I.D.:	_IN. O.D.:	IN.	INVERT	7	/, STEPS	TRO	UGH
CONDITION: SOUND [ ] BF	ROKEN[] LO	OSE[]		7			7
GRADE: AT[] ABOVE []	BELOW[]	IN.		7	// ]		
OFFSET: NO[] YES				-	///		
CORBEL AND WALLS: OTHER:			EVIDENCE	F			DROP
CONSTRUCTION: BRICK[]F			OF S ROUNDWATER				
CONDITION: GOOD [ ] DETE			IN			SEWE	ER INVERT
	DIUM [] HEAY	<b>V</b>	<u> </u>				
APRON AND TROUGH:	. ,						
CONDITION: GOOD [ ] POO	RII			1		1	RINVERT
REMARKS:				1 /		; ELE	EVATION
DEPOSITION: TYPE				1		, [	
STEPS: (#)					)		
NO[] YES[] GOO	DII POORI	1					
INFLOW:		•					TOP VIE
EVIDENCE OF YES[] NO[	1						
LOCATION		_					
IS MANHOLE IN A DEPRESSED A		NO[]					
DESCRIBE LOCATION						DEP	ГН
POTENTIAL AREA DRAINED				_			
INFILTRATION: YES[] NO[				_			
LOCATION	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		-				
SURCHARGING: YES[] NO[	PASTI PR	ESENTII DE	PTH IN				
CONTACTOR TEST TO THE			NG LINES			ОПТО	GOING
PIPE DATA	МН	мн	мн		МН	МН	
	DROP[]	DROP[]	DROP[]		DROP[]	DROP[]	
TYPE							1 % 1
DIAMETER	IN.	IN.		IN.	IN.		IN.
DEPTH	FT. IN.	FT. IN.	FT.	IN.	FT. IN	• 1	T. IN.
REMARKS:							
USE BACK OF SHEET FOR ADDED IN	EORMATION:				MANHOL	LE INVESTIG	ATION FOR

ALA	D
MILE	
	nmenta! Grout

JOB # <u>69 - 06 - 01</u> INV	DA	TE <u>06-18-0</u>			
MANHOLE # Birk . 9	_ MINI SY	STEM Bu	<u></u>	REET[]	EASEMENT [-
MANHOLE COVER: O.D. 23	Uss Bay	WAY		WE	ATHER WORK
CONDITION OF FIT:					OVER
GOOD [ LOOSE [ ] BROK	(EN[] SEA	LED[]	77777777777	// ////	RING (FRAME)
NUMBER OF HOLE	S Z SIZE	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			CORBEL WORK
OPEN [] CLC		1	DEPTH TO		APRONS
MANHOLE FRAME: I.D.: 22	IN. O.D.: <u>93</u>	34 IN.	INVERT	STEPS	TROUGH
CONDITION: SOUND [] BR	OKEN[] LO	OSE[]	23'		
GRADE: AT[] ABOVE [+)	BELOW[]	IN.	= '		
OFFSET: NO[+ YES]	1	IN	-		
CORBEL AND WALLS: OTHER: _			EVIDENCE P		DROP
CONSTRUCTION: BRICK [ ] P		1	ROUNDWATER		
CONDITION: GOOD [ T DETE	RIORATING [ ]	ļ -	IN.		SEWER INVERT
LIGHT[] MEI	DIUM [ ] HEAV	Λ [ˈ] <u> </u>			
APRON AND TROUGH:				1 1	SEWER INVERT
CONDITION: GOOD [ T POOF	₹[]		105.6		ELEVATION
REMARKS:			×		
DEPOSITION: TYPE	DEPTHIN.		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	m. i	
STEPS: (# 👲 )		( N	) \	i-! /	
NO[/ YES[] GOO	D[] POOR[	]			TOP VIEV
INFLOW:			ŕ		
EVIDENCE OF YES[] NO[				V	
LOCATION		-			
IS MANHOLE IN A DEPRESSED A		NO[7			
DESCRIBE LOCATION					DEPTHIN
POTENTIAL AREA DRAINED (					
INFILTRATION: YES[] NO[-	RATE (GPI	M):	-		
LOCATION	DAGT ( ) DDI	SENT! DE	PTHIN.		
SURCHARGING: YES[] NO[1	PAST[] PRE		IG LINES NE		SW OUTGOING
PIPE DATA	MH 1011	MH 10"	мн 🕏	мн	MH + 10
	DROP[1	DROP [/	DROP[]	DROP[]	DROP[]
TYPE	PVC	FYC	NCP		NCP
DIAMETER	O IN.	\ <u>C</u> IN.	15 IN.	IN.	(B) IN.
DEPTH	TFT. IV IN.	FT. (1 IN.	9 FT. 3 IN.	FT. IN.	
REMARKS:					
USE BACK OF SHEET FOR ADDED IN	ORMATION:			MANHOLE	INVESTIGATION FORM

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HILD	ntal Graue

JOB # <u>04-06-01</u> INV	ESTIGATO	R 57-6	) E	DA	TE 6-18-04
MANHOLE # Book - 18			STE	REET[] É	ASEMENT [-
MANHOLE COVER: C.D. SORK  CONDITION OF FIT:  GOOD [ ] LOOSE [ ] BROK  NUMBER OF HOLE	₹IN. [EN[] SEA	LED[]	· · · · · · · · · · · · · · · · · · ·		DVER RING (FRAME) CORBEL WORK
OPEN [ CLO MANHOLE FRAME: I.D.: 21  CONDITION: SOUND [ ] BR GRADE: AT [ ] ABOVE [ E E OFFSET: NO [ YES [ CORBEL AND WALLS: OTHER: _ CONSTRUCTION: BRICK [ ] PR CONDITION: GOOD [ ] DETE LIGHT [ ] MED APRON AND TROUGH: CONDITION: GOOD [ ] POOR	SED[] IN. O.D.: 205 OKEN[] LO SELOW[]  RECAST[10T RIORATING[1	OSE [-)	DEPTH TO INVERT CY TO THE TOTAL TOTA	STEPS	APRONS TROUGH  DROP  SEWER INVERT  SEWER INVERT ELEVATION
REMARKS:	POOR[  POOR[  REA? YES[]	]			TOP VIEV
POTENTIAL AREA DRAINED ( INFILTRATION: YES[] NO[- LOCATION					
SURCHARGING: YES[] NO[1	PAST[] PRE	NE INCOMIN		мн	SW OUTGOING MH BAN-10
TYPE DIAMETER	PVC IN.	DROP[]  VCP  \2 IN.	DROP[]  VCP  \B IN.  & FT. & IN.	DROP[]	DROP[]  VCV  \8 IN.  9 FT. \IN.
DEPTH REMARKS  USE BACK OF SHEET FOR ADDED INF	5 FT. & IN.	C FT, N.	O FT. O IN.	FT. IN.  MANHOLE	INVESTIGATION FORM

	A	E	E 49/0	
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Α.				116-00

JO	0B # <u>(04 - 06 - 0)</u> IN	VESTIGATO	RSTUL	o Ic	DA	TE <u>७-१२-७५</u>
MA	ANHOLE # BALLO	MINI SY	STEM 🔊	ST	REET[] I	SASEMENT [/
MA BELOW CO API	CATION SOCIALISM NHOLE COVER: O.D. DESCRIBE LOCATION  NHOLE COVER: O.D. DESCRIBED  NUMBER OF HOLE OPEN [ ] CLE NUMBER OF HOLE OPEN [ ] BROW  BROW OPEN [ ] CLE OPEN [ ] BROW OPEN [ ] BROW OPEN [ ] FOO OPEN [ ] CLE OPEN [ ] ME OPEN [ ] ME OPEN [ ] ME OPEN [ ] GOO OPEN	DKEN[] SEA ES SIZE OSED[]IN. O.D.: 22 ROKEN[] LO BELOW[]  PRECAST[] OT ERIORATING[] EDIUM[] HEAV  DR[]  DEPTHIN  DD[] POOR[  AREA? YES[]	ALED[]  N.  OSE[]  IN.  HER[]  Y[]	DEPTH TO INVERT  EVIDENCE OF ROUNDWATER IN.		RING (FRAME) CORBEL WORK  APRONS TROUGH  DROP  SEWER INVERT ELEVATION  TOP VIEV
INF	POTENTIAL AREA DRAINED	(FT. X FT.)				
	LOCATION					
SU	RCHARGING: YES[] NO[/					
		NW	NE INCOMI			SWOUTGOING
	PIPE DATA	MH 5	MH	DROP[]	MH	MH BW-12
		DROP[.]	DROP[/		DROP[]	DROP[]
	TYPE	PVC	PVC	VCP	<del> </del>	VC P
	DIAMETER	6° IN.	E IN.	18 IN.	IN.	18 IN.
	DEPTH	( FT. 5 IN.	6 FT. 5 IN.	Olft. I IN.	FT. IN.	9 FT. 1 IN.
	REMARKS: MILL Frame RUSTING	Heavy			MANUOLE	INVESTIGATION FORM

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( F	4-	
Con M	Environ	f . w

MANHOLE # 30-12	MINI SY	STEM	6 5 . CT	DEET ( ) E	
		012/11	80W 31	KEEI[] E	ASEMENT [
LOCATION 900-916	PINELLAS ?	Bayway		WE	ATHER Cook
MANHOLE COVER: O.D. 23	IV.				
CONDITION OF FIT:			7777777777	77 7777	DVER
GOOD[] LOOSE[/ BRO		ì			RING (FRAME)
NUMBER OF HOL		1 IN.	DEPTH TO		CORBEL WORK
OPEN [ / CL		3/11	INVERT		APRONS
MANHOLE FRAME: I.D.: 21/18		1	11,1,	STEPS	TROUGH
ELOWCONDITION: SOUND M B		. 1		· // H	
GRADE: AT[ ABOVE [ ] OFFSET: NO[ YES		1		//	
CORBEL AND WALLS: OTHER:		1	EVIDENCE	//	DROP
CONSTRUCTION: BRICK [ ]			OF ROUNDWATER		
CONDITION: GOOD [ ] DET		_	IN.		SEWER INVERT
	EDIUM [ ] HEA	_ 1			
APRON AND TROUGH:	-DIOÍALÍ I LIFY	V 1 [*]			<b>一 「</b>
CONDITION: GOOD [ ] POO	DR L I			118"VC	P SEWER INVERT
REMARKS:			6'pVC	1	ELEVATION
DEPOSITION: TYPE		7	<b>1</b>	- 1 ! \	1
STEPS: (# O		' 🔀			_ Land Mark circle
NO[1 YES[] GOO	DDII POORI	\	3) 8°VC \		
INFLOW:		•			TOP VIE
EVIDENCE OF YES[] NO	17			V 18 V	7
LOCATION				100	·
IS MANHOLE IN A DEPRESSED	AREA? YES!1	NO 1-1			
DESCRIBE LOCATION					DEPTHI
POTENTIAL AREA DRAINED					
INFILTRATION: YES[] NO[					
LOCATION	,	,			
SURCHARGING: YES [ ] NO [	PAST[] PRI	ESENT[] DE	PTHIN.		
	NW	N INCOMI	NG LINES NE	SE	SW) OUTGOING
PIPE DATA	MH SC	MH SC	MH BW-19	MH LANDMAR	
	DROP[-	DROP[1	DROP[]	DROP[]	DROP[]
TYPE	VCP IN.	Puc In.	VCP 18> IN.	IN.	18 IN.
	[ ] IN.	ilv.	1 10 114.	11N.	10 114.
DIAMETER	6 FT. 5 IN.	& FT. ♥ IN.	( FT.   IN	. 10 FT. Z IN.	\\ FT. \ IN.

(Altair			\					
\ /-\ILCII	(	Pa		-	<b>2</b> 29	2	e.	
Envaronmental Gra		A						

JOB # <u>04- 06-01</u> IN	/ESTIGATO	R STRUB	le		DATE 6-18-04
MANHOLE # BW- 13	MINI SY	STEM BW	S	TREET [	] EASEMENT[-
LOCATION 936 Pince	Uss Buy	PAU.			WEATHER 2600
MANHOLE COVER: O.D. 27					
CONDITION OF FIT:			77777777	7777 <del></del> 17	COVER
GOOD[] LOOSE[+ BRC	KEN[] SEA	ALED[]	. , , , , , , , , ,		RING (FRAME)
NUMBER OF HOL	ES 1 SIZE	IN.			CORBEL WORK
OPEN [ + CL	OSED[]	-	DEPTH TO		APRONS
MANHOLE FRAME: I.D.: 211/18	_IN. O.D.: 22	-3/4 IN.	INVERT	STEPS	TROUGH
BELOWCONDITION: SOUND M BI	ROKEN[] LO	OSE[]	11,7,		
N/ GRADE: AT[/ ABOVE []				h' / /	
OFFSET: NO[] YES		I	>> <b>:</b>	h //	
CORBEL AND WALLS: OTHER:			EVIDENCE		DROP
CONSTRUCTION: BRICK[]		HER [ ]	OF ROUNDWATER		
CONDITION: GOOD [ ] DET			IN.		SEWER INVERT
		_ 1	•		
	DIUM [ ] HEA	VY [7	-		1
APRON AND TROUGH:				i	SEWER INVERT
CONDITION: GOOD [ 7 POC				1	ELEVATION
REMARKS:				1/1	
DEPOSITION: TYPE	_DEPTHIN			1 11	Y
STEPS: (#)		( )	ı 🕽 🔝	<b>⇒</b> ii	
NO[] YES[] GOO	DD[] POOR[	]	9		TOP VIE
INFLOW:				V	TOP VIE
EVIDENCE OF YES[] NO	1			¥	
LOCATION		_			
IS MANHOLE IN A DEPRESSED	AREA? YES[]	NO[}			
DESCRIBE LOCATION					DEPTH
POTENTIAL AREA DRAINED					
INFILTRATION: YES[] NO					
LOCATION	7,0112 (01)	,.	-		
SURCHARGING: YES [ ] NO [-	Y DASTII DDI	ESENTI DE	PTH IN		
SURCHARGING. TES[] NO[	TNW	NE INCOMI			SW OUTGOING
PIPE DATA	MH SC	MH 3-12	МН	мн	MH BUIL- 14
	DROP [ a	DROP[]	DROP[]	DROP[]	DROP[]
TYPE	VCP	VCP			VICP
DIAMETER	(2 IN.	\8 IN.		IN.	IN. \& IN.
DEPTH	6 FT. 7 IN.	WFT. IN.	FT.	IN. FT.	IN. \\ FT. L\ IN.
REMARKS					
MANHOLE FVAME	RUSTING L	ODUY		***	NHOLE INVESTIGATION FOR

		\				
	F6.	6	-	<b>8</b>	<b>8</b> 2/77	
	Stant &		. C		Ē	
_	_	Env	iron	me	ntal	Grow

JOB# <u>ONLOG-CI</u> INV	ESTIGATO	RSTULB	.E	DA	TE 6-18-04
MANHOLE # EW- 18	MINI SY	STEM BU	4 ST	REET[]	SIDENACK EASEMENT [L
LOCATION 1000 PINCELL	as Bayway			WE	EATHER CLAR
MANHOLE COVER: O.D. <u>)。</u>	ZIN.				
CONDITION OF FIT:					COVER
GOOD[] LOOSE[/ BROK	KEN[] SEA	ALED[]	7777777777777		RING (FRAME)
NUMBER OF HOLE	S 1 SIZE	IN.			CORBEL WORK
OPEN [-Y CLC		· · · · · · · · · · · · · · · · · · ·	DEPTH TO	)	APRONS
MANHOLE FRAME: I.D.: 2116		3/4 IN.	INVERT	, STEPS	TROUGH
BUDWCONDITION: SOUND M BR			12'7"		1
GRADE: AT [ ABOVE [ ] E			= '	/ / [	
OFFSET: NO [ YES ]				///	
CORBEL AND WALLS: OTHER: _		ł	EVIDENCE	///	DROP
CONSTRUCTION: BRICK[]P			OF SOUNDWATER		179
CONDITION: GOOD [ ] DETE			IN.		SEWER INVERT
LIGHT[] MEI		_ \	<u> </u>		
APRON AND TROUGH:	5,5,11 ( ) · · · · · · · · ·	• • [ ]			
CONDITION: GOOD [ POOI	) [ ]		i	t 1	SEWER INVERT
REMARKS:				W)	ELEVATION
			1		
DEPOSITION: TYPE	DEP 1 114		$\rightarrow$	'~	
STEPS: (#	2000	- N	)	$(1)^{-7}$	
NO[/ YES[] GOO	D[] POOR[	1		111	TOP VIEW
INFLOW: EVIDENCE OF YES[] NO[]	1/				
				A	
LOCATION		- 110 1 1			
IS MANHOLE IN A DEPRESSED A		NOIT			מו וו
DESCRIBE LOCATION					DEPTHIN
POTENTIAL AREA DRAINED (					
INFILTRATION: YES[] NO[-	RATE (GP	M):	-		
LOCATION					
SURCHARGING: YES[] NO[/	PAST[] PR		PTHIN.		Vi Courcoine
PIPE DATA	NA	MHBW-B	MH .	МН	MH BWI-15
PIPE DATA	DROP [v)	DROP[]	DROP[a	DROP[]	DROP[]
TYPE	PVC	VCP	Preside		VCP
DIAMETER	G" IN.	18 IN.	8 IN.	IN.	18 IN.
DEPTH	S FT. & IN.	17 FT. 7 IN.		FT. IN.	12FT. 7'IN.
REMARKS:					
FRAME RUSTING 1					E INVESTIGATION FOR
USE BACK OF SHEET FOR ADDED IN	FORMATION.			MANHOL	E INVESTIGATION FORM

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JOB# <u>0-,- 56-01</u> INV	ESTIGATO	R STEUDI	E	DA	TE 6-18-04
MANHOLE # Bw-15	_ MINI SYS	STEM By	STF	REET[/E	ASEMENT [
LOCATION 12 ST. W.	2 PINELLA	s Bayoua'x	<u> </u>	WE.	ATHER Leas
CONDITION OF FIT:				C	OVER
GOOD [ LOOSE [ ] BROK		IED!	77777777777	7 7///	RING (FRAME)
NUMBER OF HOLE					CORBEL WORK
OPEN [] CLO			DEPTH TO		
MANHOLE FRAME: I.D.: 2036		3/1 IN	INVERT	, STEPS	APRONS TROUGH
CONDITION: SOUND [ ] BR		i	10'	/ STEPS	
			- P	/ / H	
GRADE: AT [ ABOVE [ ] E		į		/ /	
OFFSET: NO[] YES[			EVIDENCE	/ /	DROP
CORBEL AND WALLS: OTHER: _ CONSTRUCTION: BRICK[]P		HED!	OF THE		
			OUNDWATER IN.	1	SEWER INVERT
CONDITION: GOOD [ ] DETE			•		
LIGHT[] MEI	JIUN [ ] HEAV	/			<u> </u>
APRON AND TROUGH:	<b>7</b>			1	SEWER INVERT
CONDITION: GOOD [ 1 POOF	~ l J		8		ELEVATION
REMARKS:	DEDTI. IN		$\rightarrow$	1 / /1	,
DEPOSITION: TYPE	DEPTHIN	, ×	7 8'	! }	-
STEPS: (#_())	D [ ] DOOR [	, (N	)		ව"
NO[] YES[] GOO	D[] POOR[	]		11	TOP VIEW
INFLOW:	1			1 1	
EVIDENCE OF YES[] NO[	7				
LOCATION	DEAD VECUI	NO 1.3			
IS MANHOLE IN A DEPRESSED A		NOIT			DEPTHIN
DESCRIBE LOCATION					DLF IIIIIV
POTENTIAL AREA DRAINED (					
INFILTRATION: YES[] NO[-	1 RATE (GPI	VI):	•		
LOCATION		TOTAL 1 DEF	THE INI		
SURCHARGING: YES [ ] NO [/]	PAST[] PRI	ESENT[] DEF	IG LINES NE	SE	SWOUTGOING
PIPE DATA	MH	MH SC	MH BN-14	МН	MH BW-16
	DROP[]	DROP[/	DROP[]	DROP[]	DROP[]
TYPE	RIC	Rye	VCP	XC	ver
DIAMETER	8 IN.	8) IN.	18 IN.	O IN.	18 IN.
DEPTH	8 FT. 5 IN.	6 FT. Z IN.	V FT, IN.	FT. IN.	\⊕FT. IN.
REMARKS:					
USE BACK OF SHEET FOR ADDED IN	FORMATION:			MANHOLE	INVESTIGATION FORM

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JOB # <u>@9-06-01</u> IN	IVESTIGATO	R STRU	-ble	D.	ATE 6- 18-01
MANHOLE # BM - 16	MINI SY	STEM B	<u> Տ</u>	REET[]	EASEMENT [
MANHOLE COVER: O.D. D	roellas Bay	WAY		W	EATHER <u>eleav</u>
CONDITION OF FIT:					COVER
GOOD[] LOOSE[/ BR			7777777777	77	RING (FRAME)
NUMBER OF HO	LES 1 SIZE	l IN.			CORBEL WORK
OPEN [] C			DEPTH TO		APRONS
MANHOLE FRAME: I.D.: 21/8	• •	3/4 IN.	INVERT	, STEPS	TROUGH
CONDITION: SOUND [-] E			133		<del></del>
GRADE: AT [-/ ABOVE []			-	· / /	
OFFSET: NO [ YE			-	ı //	
CORBEL AND WALLS: OTHER:			EVIDENCE	. / /	DROP
CONSTRUCTION: BRICK[]	-		OF SOUNDWATER		
CONDITION: GOOD [ ] DE			IN.	+ 1	SEWER INVERT
	EDIUM [] HEA	. Y		<b>V</b>	
APRON AND TROUGH:	,				
CONDITION: GOOD [ 7 PO	ORII			N/	SEWER INVERT
REMARKS:			1	TI	ELEVATION
DEPOSITION: TYPE		•	<b>\</b>	/ ! ! \	\'
STEPS: (#)		, 🔀		1 1	)
NO[ YES[] GO	OD[] POOR[		゚゚゚ヺ゚゚゚゚゚゚゚		/
INFLOW:				THOUSE OF	TOP VIEW
EVIDENCE OF YES[] NO	11			<b>,</b> (6)	
LOCATION					
IS MANHOLE IN A DEPRESSED		NO [ ]			
DESCRIBE LOCATION					DEPTHIN
POTENTIAL AREA DRAINE					
INFILTRATION: YES[] NO					
LOCATION		,			
SURCHARGING: YES[] NO[	PAST[] PR	ESENT[] DE	PTHIN.		
	NE	5W INCOMI	NG LINES		SW OUTGOING
PIPE DATA	MH BN- 15	MH 6"SC	MH	MH	MH BWI-17
	DROP[]	DROP (J	DROP[]	DROP[]	DROP[]
TYPE	VCP 18 IN.	PUC		IN.	
DIAMETER	18 IN.	6 IN. 12 FT. 6 IN.	IN ET IN		N. 13 FT. 3 IN.
DEPTH REMARKS:	I WELD IN.	1 1611. 6 IN.	FT. II	N.   FT.	11.   10 m.
NEWVINO.					
. USE BACK OF SHEET FOR ADDED	INFORMATION			MANHO	LE INVESTIGATION FORM

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	Ita	e R	24"	
A Proof	LO		2	

Utility System Service

JOB# <u>୦५-୦୭-୦</u>	NVESTIGATO	R STELDI		DA	TE 6-18-01
MANHOLE # ろいっこ	MINI SY	STEM Bu	J ST	REET[] E	EASEMENT [.
LOCATION SAME PO		xllss Bayn	JAY ,		
CONDITION OF FIT:			77777777777	7/ V///	OVER
GOOD [ LOOSE [ ] BI	roken[] sea dles <u>7</u> size	. 1			RING (FRAME)
			DEPTH TO		CORBEL WORK
OPEN []		26 1	INVERT		APRONS TROUGH
MANHOLE FRAME: I.D.: 31		1	12'6"	STEPS	ROUGH
CONDITION: SOUND [ ]		/O3L [ ]		· // H	h
GRADE: AT [ T ABOVE [					
OFFSET: NO[ Y			4	//	DROP
CORBEL AND WALLS: OTHER			OF -	///	
COMMENTICONSTRUCTION: BRICK [			ROUNDWATER	//	05/4/50 (4)//507
CONDITION: GOOD [ 1 D		▼	IN.		SEWER INVERT
LIGHT[]	MEDIUM [ ] HEA'	VY []			
APRON AND TROUGH:			L	1 1	SEWER INVERT
CONDITION: GOOD [ ] P					ELEVATION
REMARKS:			1/		Hir FM
DEPOSITION: TYPE	DEPTHIN		\ \\	' }	4 1
STEPS: (#)		<	7	11 6	- SC
NO[] YES[] G	00D[] POOR[	]	<i>y</i>		TORVIEW
INFLOW:				TH	TOP VIEV
EVIDENCE OF YES[] N	011			V	
LOCATION		_			
IS MANHOLE IN A DEPRESSE	DAREA? YES[]	NO[]			
DESCRIBE LOCATION					DEPTHIN
POTENTIAL AREA DRAINE	D (FT. X FT.)				
INFILTRATION: YES[] NO	O[ T RATE (GP	M):	_		
LOCATION					
SURCHARGING: YES[] NO	PAST[] PR	ESENT[] DEF	PTHIN.		
	N	1 INCOMI	IG LINES SE	5	M OUTGOING
PIPE DATA	MH BUL-16	MH2N-19	MH 7, E'W	MH 6'5.e	MHBW1-18
	DROP[]	DROP[]	DROP [Y	DROP[2]	DROP[]
TYPE	18 IN.	PIC	PYC	PUC 6' IN	VCP
DIAMETER	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	6 FT. 7"IN.	4" IN. 3 FT. 7 IN.		18 IN. 12 FT. 6 IN.
DEPTH REMARKS:	LFI. O IN.	i C FI. IN.	1 - 71. ) IIV.	J 11. 3 114.	1011.0 11.
M.H. FI DERGLASSE	5 LINER TH	IT:			
LIGHT DAGING OF CHICKET FOR ADDE	DINICORMATIONS			MANHOLE	INVESTIGATION FORM

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					p.c.	
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JOB # <u>04-06-01</u> INV	DAT	TE <u>6- 18-07</u>			
MANHOLE # BW-18	_ MINI SYS	STEM BW	STI	REET[] E	ASEMENT [-
LOCATION SAND POINT	DR.			WE	ATHER CLEAR
MANHOLE COVER: O.D. 20	12 IN.				
CONDITION OF FIT:				CC	OVER
GOOD[] LOOSE[4 BROK	(EN[] SEA	LED[]	(////////////	1	RING (FRAME)
NUMBER OF HOLE					CORBEL WORK
OPEN [1] CLO		1	DEPTH TO		APRONS
MANHOLE FRAME: I.D.: 21/8	IN. O.D.: 20	3/4 IN.	INVERT	STEPS	TROUGH
CONDITION: SOUND[] BRO			13'5		
GRADE: AT [ / ABOVE [ ] B			7	′ / N	
OFFSET: NO[] YES[		1		//	
CORBEL AND WALLS: OTHER: _		1	EVIDENCE	//	DROP
CONSTRUCTION: BRICK[]PI		HER [ ] GR	OF TO OUNDWATER	///	
CONDITION: GOOD [ ] DETE		1 -	IN.		SEWER INVERT
LIGHT[] ME		γ[] <del>'</del>	_+		<b></b>
APRON AND TROUGH:					
CONDITION: GOOD [ 1 POOF	٦١.		1	\ Drob	SEWER INVERT
REMARKS:		\	1		PAOD EFFAULUIT
DEPOSITION: TYPE	DEPTH IN.	<b>\</b>	=\ <sup>'</sup>		
STEPS: (# O)	-	F N	Z FIM	117	Principal Control of C
NO[] YES[] GOO	D[] POOR[	]	<i>y</i>		TOP VIEW
INFLOW:					TOP VIEW
EVIDENCE OF YES[] NO[.	7			$\mathcal{N}_{i}$	
LOCATION		-			
IS MANHOLE IN A DEPRESSED A	REA? YES[]	NO[+			
DESCRIBE LOCATION					DEPTHIN
POTENTIAL AREA DRAINED (	FT. X FT.)				
INFILTRATION: YES[] NO[-	RATE (GPI	M):	-		
LOCATION					
SURCHARGING: YES[] NO[1		ESENT[] DEF	PTHIN.		
DIDE DATA	W	NE INCOMIN		TMUDINI 10	5 OUTGOING
PIPE DATA	DROP [	DROP [L]	MH DROP[]	MHBW-17	DROP[]
TVDF	PVC	PIC	VCP	Ver	VCP
TYPE DIAMETER	IN.	10 IN.	10 IN.	1	NO IN.
DEPTH	3 FT. 1 IN.			15	
REMARKS:					
MIH WAS FIDERCH	LINER			MANHOLE	INVESTIGATION FORM
USE BACK OF SHEET FOR ADDED IN	FORMATION:			IVIAINITOLE	

JOB # (9-06-0) INVESTIGATOR (19-06-0)	s inc
JOB # (4-06-0) INVESTIGATOR STYCE	Utility System Servic
MANHOLF # Process	DATE 6-18-04
MANHOLE # BW-19 MINI SYSTEM BW  LOCATION & SANDE POINT DE LITTER	STREET   FASEMENT
MANHOLE COVER: O.D. DOYZ IN	LASEIVIEN [
CONDITION OF FIT:	WEATHER CLOAR
GOOD[] LOOSE[] BROKEN[] SEALED[]	COVER
NOMBER OF HOLES \ SIZE \	RING (FRAME)
	CORBEL WORK
THE PAINE I.D. OF 2031	APRONS
CONDITION: SOUND [   BROKEN [ ] LOOSE [ ]  GRADE: AT [ ABOVE [ ] BELOW IN.	STEPS TROUGH
VEQ.	
The state of the s	
CONSTRUCTION: BRICK   1 PRECAST   200	DROP
DETERIORATING 1	
APRON AND TROUGH:	SEWER INVERT
CONDITION: GOOD [ ] POOR [ ]	
REMARKS:	SEWER INVERT
DEPOSITION: TYPEDEPTHIN.	ELEVATION
O'L' O'. (#)	(
NO[] YES[] GOOD[] POOR[]	11
EVIDENCE OF YES [ ] NO [ ]	TOP VIEW
LOCATION	V ————————————————————————————————————
IS MANHOLE IN A DEPRESSED AREA? YES IN NO PERSONNEL OCCUPANTION OF THE PROPERTY OF THE PROPERT	
- TOURION COENCER OF SULLY D	
POTENTIAL AREA DRAINED (FT. X FT.) 3' X 3'	DEPTHIN.
INFILTRATION: YES[] NO[ RATE (GPM):	
SURCHARGING: YES[] NO[ PAST[] PRESENT[] DEPTH IN.	
E NESENI [ ] DEPTHIN.	

SU	RCHARGING YES I 1 NO	1/-			
	RCHARGING: YES[] NO	[ PAST[]	PRESENT	[] DEPTH	INI
	PIPE DATA		<	INCOMING LINES	
- 1		MH 3m-	MH MH		

PIPE DATA	MUG		NG LINES		
TYPE	MHBW-ZO DROP[] VCP	DROP[4	MH DROP[]	MH DROP[]	MH 3-M - 17 DROP[]
DIAMETER  DEPTH  REMARKS:	8 IN. 6 FT. 6 IN.	5 IN. 5 FT. 5 IN.	IN. FT. IN.	IN. FT. IN.	8 IN. 6 FT. 6 IN.

20B # 34- 00-01 IN	Tierra Verde / Utilit	
MANHOLE #		E DATE 6-18-0
1.00LL # 15W-70	MINI SYSTEM Rev	STREET[] EASEMENT[
MANHOLE COVER: O.D. ZZ	ot Drive	WEATHER ونهم
OPEN [ CLC MANHOLE FRAME: I.D.: 31/18  CONDITION: SOUND [ ] BR  GRADE: AT [ ABOVE [ ] B  OFFSET: NO [ YES [ CORBEL AND WALLS: OTHER:  CONSTRUCTION: BRICK [ PF  CONDITION: GOOD [ ] DETER	DEPT  DIUM [] HEAVY []  DEPT  IN.  IN.  DEPT  IN.  IN.  DEPT  IN.  IN.  DEPT  IN.  DEPT  IN.  DEPT  IN.  DEPT  IN.  DEPT  IN.  DEPT	STEPS TROUGH DROP
NO[] YES[] GOOD INFLOW: EVIDENCE OF YES[] NO[] LOCATION	[] POOR[]	TOP VIEW
	EA? YES[] NO[-	

PIPE DATA	MH			VG LINES				W OUTGOING
	MHSC		MH BW-21	МН		МН		MH BW- 18
	DROP[]		DROP [ a	DROP[]		DROP[]		
TYPE	YCF		VCP					DROP[]
DIAMETER	(0	IN.	8) IN.					VCY
DEPTH					IN.		IN.	85" IN.
REMARKS:	FT.	IN.	4 FT.10 IN.	FT.	IN.	FT.	IN.	7, FT. 3 IN.

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A L	1	4-2	9	p.c	
		ta			<i>c</i>

Utility System Servic

JOB# <u> </u>	'ESTIGATO	R STRUB	ie	1	DATE 06-18-0
MANHOLE # WW-ZI	_ MINI SY	STEM 🕭	<u>N</u> S	TREET[	EASEMENT [ }
MANHOLE COVER: O.D. 22'  CONDITION OF FIT:  GOOD[] LOOSE[] BROWN  NUMBER OF HOLE  OPEN [] CLO  MANHOLE FRAME: I.D.: 21'/6'  CONDITION: SOUND[] BROWN  GRADE: AT [] ABOVE [] E  OFFSET: NO [] YES  CORBEL AND WALLS: OTHER:  CONSTRUCTION: BRICK[] P  CONDITION: GOOD[] DETE  LIGHT[] ME  APRON AND TROUGH:  CONDITION: GOOD [] POOR  REMARKS:  DEPOSITION: TYPE	KEN[] SEA SED[]  IN. O.D.: 722  OKEN[] LOSELOW[]  RECAST[107  ERIORATING[1]  DIUM [] HEAV	ALED[]    IN.     3/4   IN.     OCE []   IN.     IN.     HER[]   GF	DEPTH TO INVERT  G'G  EVIDENCE OF ROUNDWATER IN.		COVER RING (FRAME) CORBEL WORK  APRONS TROUGH  DROP  SEWER INVERT ELEVATION
STEPS: (#)  NO[	<i>Y</i>	-		M	TOP VIEW
DESCRIBE LOCATION  POTENTIAL AREA DRAINED ( INFILTRATION: YES[] NO[-	FT. X FT.)				DEPTHIN
SURCHARGING: YES[] NO[1		ESENT[] DEF	PTHIN.		
PIPE DATA	MH SC DROP[N	INCOMIN MHSJE DROP[1	MH DROP[]	MH DROP[]	MH BW - ZO
TYPE	YCP	<u> </u>			VICP
DIAMETER	G IN.	lo in.	-	N.	IN. S IN.
DEPTH REMARKS:	FT. ( IN.	3 FT. IN.	FT.	IN. FT.	IN. 6 FT. 6 IN.

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Utility System Service

JOB # <u>0%- 05-01</u> INV	ESTIGATOR	R STRU	ble	DA	TE 6-18-01
MANHOLE #	_ MINI SYS	STEM BW	STI	REET[ ] E	ASEMENT[]
LOCATION 557 CIEGA MANHOLE COVER: O.D. 2331	KERDE			WE	ATHER CLEAK
MANHOLE COVER: O.D. 2007  CONDITION OF FIT:  GOOD [] LOOSE [] BROK  NUMBER OF HOLES  OPEN [] CLO  MANHOLE FRAME: I.D.: 2    CONDITION: SOUND [] BROK  GRADE: AT [] ABOVE [] B  OFFSET: NO [] YES [  CORBEL AND WALLS: OTHER: _  CONSTRUCTION: BRICK [] PROMOTION: GOOD [] DETE  LIGHT [] MED  APRON AND TROUGH:  CONDITION: GOOD [] POOF	EN[] SEA S 2 SIZE SED[]  IN. O.D.: 22 DKEN[] LO ELOW[]  RECAST[] OT RIORATING[] DIUM [] HEAV	LED[]	DEPTH TO INVERT  EVIDENCE OF ROUNDWATER IN.	STEPS	RING (FRAME) CORBEL WORK  APRONS TROUGH  DROP  SEWER INVERT ELEVATION
REMARKS:	DEPTHIN.	N			TOP VIEW
EVIDENCE OF YES[] NO[.  LOCATION IS MANHOLE IN A DEPRESSED A  DESCRIBE LOCATION  POTENTIAL AREA DRAINED (	REA? YES[]			\\frac{1}{\triangle}	DEPTHIN
INFILTRATION: YES[] NO[/	RATE (GPI	M):	_		
SURCHARGING: YES [ ] NO [4		SENT[] DEF			NWOUTGOING
PIPE DATA	MH DROP[]	MH DROP[]	MH DROP[]	MH DROP[]	MH ZW-7 DROP[]
TYPE	RUC	PNC	PUC	10.	AIC ON IN
DIAMETER	8 IN.	8 IN. 6 FT. 9 IN.	& IN.		6 FT. 9 IN.
DEPTH REMARKS:  USE BACK OF SHEET FOR ADDED INF	G FT. S IN.	Ø F1. ₹ \ IN.	i Ori- in		INVESTIGATION FORM

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Utility System Service

JOB# <u>0060</u> \	ESTIGATO	R STRU	biE	DA	TE 6-18-04
MANHOLE # <u>A-3</u>	MINI SY	STEM <u></u>	ST	REET[] I	EASEMENT [ ;
CONDITION MANHOLE COURTE COURT	(EN[] SEA S \ SIZE SED[] IN. O.D.: 22	LED[]  IN.  3/4 IN.	DEPTH TO		COVER RING (FRAME) CORBEL WORK APRONS TROUGH
GRADE: AT['] ABOVE [] E OFFSET: NO[] YES[ CORBEL AND WALLS: OTHER: _ CONSTRUCTION: BRICK[]P CONDITION: GOOD[] DETE LIGHT[] MEI APRON AND TROUGH: CONDITION: GOOD[/] POOF REMARKS:	RECAST [ TOTERIORATING [ TOTERIORATING ] THEAT	IN.	EVIDENCE OF ROUNDWATER IN		SEWER INVERT SEWER INVERT ELEVATION
DEPOSITION: TYPE  STEPS: (#)  NO [/] YES [ ] GOO  INFLOW:  EVIDENCE OF YES [ ] NO [	D[] POOR[	, N			TOP VIEW
DESCRIBE LOCATION  POTENTIAL AREA DRAINED ( INFILTRATION: YES [ ] NO [V	 F.T. X FT.)				DEPTHIN.
SURCHARGING: YES[] NO[W] PIPE DATA	PAST[] PRE	ESENT[] DEF		MH DROP <del>≰s}</del> ≤	SWOUTGOING MH DROP[]
TYPE DIAMETER DEPTH REMARKS.	PVC 8 IN. GFT. ZIN.	VCP 8 IN. 9FT. 2 IN.	D IN.	IN. ₹FT. IN.	V CVP 8 IN. 9 FT. 7 IN.
USE BACK OF SHEET FOR ADDED INF	ORMATION:			MANHOLE	INVESTIGATION FORM

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Utility System Services

JOB # <u>೨५, ೮५-७४</u> IN	VESTIGATO	R STVLb	le	DA	TE <u>6-18-04</u>
MANHOLE # A. M.O.	MINI SY	STEM _A	ST	REET[]	EASEMENT[]
LOCATION STALLE N MANHOLE COVER: O.D. DD	& UTHS	T.W.		WE	ATHER CLEAK
CONDITION OF FIT:			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	74 - C	OVER
GOOD[/ LOOSE[] BRO		)	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		RING (FRAME)
NUMBER OF HOL	ES 1 SIZE	112 IN.		-	CORBEL WORK
OPEN [ ] CL	OSED[/	_	DEPTH TO		APRONS
MANHOLE FRAME: I.D.: 2	IN. O.D.: <u>Z</u>	$\frac{3}{2}$ IN.	INVERT P	STEPS	TROUGH
CONDITION: SOUND [ ] B		)08E[]			
GRADE: AT [ / ABOVE [ ]	BELOW[]	IN.	P'		
OFFSET: NO [/ YES	S[]	IN.			
CORBEL AND WALLS: OTHER:			EVIDENCE OF		DROP
CONSTRUCTION: BRICK[]	PRECAST [ 1 0	THER[] G	ROUNDWATER		
CONDITION: GOOD [ ] DET		1	IN.		SEWER INVERT
LIGHT[] MI	EDIUM [ ] HEA	WIT -	*		
APRON AND TROUGH:					
CONDITION: GOOD [ / POO	DR[]		6	1	SEWER INVERT
REMARKS:			0		ELEVATION
DEPOSITION: TYPE	DEPTHIN				
STEPS: (#)			X' = -		
NO [ YES [ ] GO	OD[] POOR[	]			
INFLOW:				77	TOP VIEW
EVIDENCE OF YES[] NO	1				
LOCATION		_			
IS MANHOLE IN A DEPRESSED	AREA? YES[]	NO[/			
DESCRIBE LOCATION					DEPTHIN.
POTENTIAL AREA DRAINED	(FT_X FT.)				
INFILTRATION: YES[] NO	ATE (GP	M):	_		
LOCATION					
SURCHARGING: YES[] NO[	/ PAST[] PR	ESENT[] DEI	PTHIN.		
	SW		NG LINES	+	5 EOUTGOING
PIPE DATA	МН	MH	MH	MH	MH A-3
	DROP [J	DROP [ X	DROP[]	DROP[]	DROP[]
TYPE DIAMETER	S IN.	(2, IN.	Q IN.	IN.	Ø'` IN.
DEPTH	5 FT. 10 IN.	3FT. Z IN.			7 FT. 3 IN.
REMARKS	<u> </u>				
USE BACK OF SHEET FOR ADDED IT	VFORMATION.			MANHOLE	INVESTIGATION FORM



#### **CLOSED-CIRCUIT TELEVISED OBSERVATIONS** REHABILITATION TECHNIQUE SELECTION TABLE

MH M FROM T			FROM	Postage	City.	CLOSED-CIRCUIT TELEVISED OBSERVATIONS	Infiltration G.P.M.	REHABILITATION TECHNIQUE / DESECRIPTION	REHAB COST
<b>BW-1 BV</b> Video Tape	PIPE TYPE PIPE SIZE PIPE LENGTH  #1 JOINT LENGTH PIPE DEPTH (from MH) LOCATION Pinellas Bay Way Drive	VCP 15" 288' 5' 5' 7" Easement	BW-1	0' 119' 170' 210' 288'	1	Manhole # BW-1 Service Connection 6" VCP / Tap-In End of VCP starts CIP, 40' long End of CIP starts VCP Manhole # BW-2		Total	
BW-2 BV	7-3 PIPE TYPE PIPE SIZE PIPE LENGTH	VCP 15" 376'	BW-2	0' 171' 265'	1	Manhole # BW-2 Break in Service Connection 6" VCP / Radial Crack Longitudinal Crack / Radial Crack, Leaking	0.25	Excavate and Repair Insitu-Point Repair	
Video Tape	#1 JOINT LENGTH PIPE DEPTH (from MH) LOCATION Pinellas Bay Way Drive	5' Easement		348' 376'	1	Break in Service Connection 6" VCP Manhole # BW-3		Total	\$ 3,600.00
BW-3 BV	7-4 PIPE TYPE PIPE SIZE PIPE LENGTH	VCP 15" 340'	BW-3	0' 1 <b>62</b> ' 235'	1	Manhole # BW-3 Break in Service Connection 6" PVC Camera cannot go any further		Excavate and Repair Service Connection	3,000.00
Video Tape		5' 6' 9" Easement	BW-4	or 105'		REVERSE SET-UP Manhole # BW-4 End of Inspection		Total	
BW-4 BV	/-5 PIPE TYPE PIPE SIZE PIPE LENGTH	VCP 15" 202'	BW-4	0' 196' 202'	1	Manhole # BW-4 End of VCP starts CIP Camera cannot go any further/ Heavy Tuberculation (Rusting	))	Special Pipeline Cleaning to Remove Tuberculation	
Video Tape	#1 JOINT LENGTH PIPE DEPTH (from MH) LOCATION Pinellas Bay Way Drive	5' 6' 11" Easement				The CIP is conflictive!		Total	
BW-6 BV	/-5 PIPE TYPE PIPE SIZE	VCP 15"	BW-6	0' 91'	1	Manhole # BW-6 Break in Service Connection 6" PVC/Heavy Grease, Leaking	0.25	Excavate and Repair	
Video Tape	PIPE DEPTH (from MH) LOCATION	182' 5' 7' Easement		182'	1	End of VCP starts CIP Camera cannot go any further Conflicting MH # BW-5		Service Connection	
	Pinellas Bay Way Drive							Total	

### CLOSED-CIRCUIT TELEVISED OBSERVATIONS REHABILITATION TECHNIQUE SELECTION TABLE

Prepared By: ALTAIR Environmental Group

Date: June 2004

MH MH FROM TO	Line Segmen Information		MH FROM	Footage	City.	CLOSED-CIRCUIT TELEVISED OBSERVATIONS	Infiltration G.P.M.	REHABILITATION TECHNIQUE / DESECRIPTION	REHAB COST
	PIPE TYPE PIPE SIZE PIPE LENGTH	VCP 15" 401'	BW-6	0' <b>40</b> 1'		Manhole # BW-6 Manhole # BW-7			
Video Tape #1	JOINT LENGTH PIPE DEPTH (from MH) LOCATION Pinellas Bay Way Drive	5' 7' Easement		401		Mainor # 644-/		Total	
	PIPE TYPE PIPE SIZE PIPE LENGTH	VCP 15" 340'	BW-7	0'		Manhole # BW-7 Manhole # BW-8		And the construction of the Advisory of the Construction of the Co	
Video Tape #1	JOINT LENGTH PIPE DEPTH (from MH) LOCATION Pinellas Bay Way Drive	5' Easement		340		mainure » 647-0			
								Total	
	PIPE TYPE PIPE SIZE PIPE LENGTH	VCP 18" 126'	BW-9	0' 126'		Manhole # BW-9  Manhole # BW-8			
	JOINT LENGTH PIPE DEPTH (from MH) LOCATION Pinellas Bay Way Drive	5' 9' 2" Easement		120				Total	
BW-9 BW-10	PIPE TYPE PIPE SIZE	VCP 18"	BW-9	0'		Manhole # BW-9			
	PIPE LENGTH JOINT LENGTH PIPE DEPTH (from MH) LOCATION Pinellas Bay Way Drive	213' 5' 9' 2" Easement		213'		Manhole # BW-10			
	•							Total	
BW-10 BW-11	PIPE SIZE	VCP 18"	BW-10	0'		Manhole # BW-10			
Video Tape #1	PIPE LENGTH JOINT LENGTH PIPE DEPTH (from MH) LOCATION	477' 5' Easement		477*		Manhole # BW-11			
	Pinellas Bay Way Drive							Total	

#### CLOSED-CIRCUIT TELEVISED OBSERVATIONS REHABILITATION TECHNIQUE SELECTION TABLE

	MH TO	Line Segment information		FROM	Footage	City.	CLOSED-CIRCUIT TELEVISED OBSERVATIONS	inflitration G.P.M.	REHABILITATION TECHNIQUE / DESECRIPTION	REHAB COST
	oe #2	PIPE TYPE PIPE SIZE PIPE LENGTH JOINT LENGTH PIPE DEPTH (from MH) LOCATION Pinellas Bay Way Drive	VCP 18" 358' 5' 11'7" Easement	BW-11	0 358'		Manhole #8W-11 Manhole #8W-12			
									Total	ļ
BW-12 B1		PIPE TYPE PIPE SIZE	VCP 18" 382'	BW-12	0 250'	1	Manhole #BW-12  Break in Service Connection, 6" PVC			
Video Tap	oe #2	PIPE LENGTH JOINT LENGTH PIPE DEPTH (from MH) LOCATION	5' Easement		382'	,	Manhole #8W-13			
		Pinellas Bay Way Drive							Total	
BW-13 B		PIPE TYPE PIPE SIZE PIPE LENGTH	VCP 18" 383'	BW-13	0 383'	· · · · · · · · · · · · · · · · · · ·	Manhole #BW-13 Manhole #BW-14			
Video Tap		JOINT LENGTH PIPE DEPTH (from MH) LOCATION Pinellas Bay Way Drive	5' 11'4" Easement						Total	
BW-14 B	W-15	PIPE TYPE PIPE SIZE PIPE LENGTH	VCP 18" 386'	BW-14	0 386'	<u> </u>	Manhole #BW-14 Manhole #BW-15			
Video Tap	pe #2	JOINT LENGTH PIPE DEPTH (from MH) LOCATION	5' Easement							
		Pinellas Bay Way Drive	Labornon						Total	
BW-16 B	SW-16	PIPE TYPE PIPE SIZE	VCP 18"	BW-15	360'		Manhole #BW-16 Manhole #BW-16			
Video Tap	pe #2	PIPE LENGTH JOINT LENGTH PIPE DEPTH (from MH) LOCATION	360' 5' 9'11" Easement							
		Pinellas Bay Way Drive/12t							Total	

#### **CLOSED-CIRCUIT TELEVISED OBSERVATIONS** REHABILITATION TECHNIQUE SELECTION TABLE

MH WH FROM TO	Line Beginer Information		FROM	Footage	City.	CLOSED-CIRCUIT TELEVISED OBSERVATIONS	Infiltration G.P.M.	REHABILITATION TECHNIQUE / DESECRIPTION		REHAB COST
8W-16 BW-17	PIPE TYPE PIPE SIZE	VCP 18"	BW-16	0		Manhole #BW-16				
	PIPE LENGTH	339'	1	179'		Break in Service Connection, 6" VCP, Leaking	3	Chemical Grout		
/ideo Tape #2	JOINT LENGTH	5'						Service Connection	1	
	PIPE DEPTH (from MH) LOCATION Pinellas Bay Way Drive	Easement		339'		Manhole #BW-17		To	tal	
W-17 BW-18	DIDE TYPE	VCP	BW-17	0		Manhole #BW-17			_+	
944-11 D44-10	PIPE SIZE	18"	D44-17	38'	1	Break in Service Connection, 6" VCP		İ	- 1	
	PIPE LENGTH	331'		187	i	Break in Service Connection, 6" VCP				
Video Tape #2	JOINT LENGTH	5'		253'	1	Break in Service Connection, 6" VCP, Leaking	0.25	Chemical Grout	1	
••••	PIPE DEPTH (from MH)	12"		306' to 330'	1	Sag or Dip in Pipe, CAMERA Underwater		Service Connection		
	LOCATION	Easement		331'	·	Manhole #BW-18		<u> </u>		
	Pinellas Bay Way Drive /	13th Street						То	tal	
#557 #650	PIPE TYPE	VCP	#557	0		Manhole #557				
	PIPE SIZE	10"	1	30' to 48'	1	Sag or Dip in Pipe, 2" Water		1	- {	
	PIPE LENGTH	181'		140' to 155'	1	Sag or Dip in Pipe, 2" Water			ļ	
Video Tape #2	JOINT LENGTH	5'		181'		Manhole #650		ł	1	
	PIPE DEPTH (from MH)	6'9"	1					İ		
	LOCATION Pinellas Bay Way Drive	Easement	1						}	
	From #557 Clega Verde Co	ondos to #650 Vi	I Ilagio Condo I	os				То	tal	
BW-21 BW-20	PIPE TYPE	VCP	BW-21	0		Manhole #BW-21			+	
	PIPE SIZE	10"		8'	1	Joint Offset 3/4"		Insitu-Point Repair		
	PIPE LENGTH	74'	1	29' to 72'	1	Sag or Dip in Pipe			- [	
Video Tape #2	JOINT LENGTH	5'		29'		1" Water				
	PIPE DEPTH (from MH)	6'8"		36'		2" Water Service Connection, 6" VCP, Capped Off				
	LOCATION 13th Street East	Easement		67' 74'		Manhole #BW-20				
	ioni offeet cast			17		SAINT STANKE TANKE A. WAR		То	tai :	\$ 2,400.0
		VCP	BW-20	0		Manhole #BW-20				
BW-20 BW-19	PIPE SIZE	10"		2°	1	Radial Crack in Pipe, full circumference		Insitu-Point Repair		
BW-20 BW-19			,		1	Also Joint is Offset 1/2"		Į.	- 1	
	PIPE LENGTH	250				A 1 A		i	1	
	PIPE LENGTH JOINT LENGTH	5'		84'		Service Connection, 6" VCP, Capped Off				
	PIPE LENGTH JOINT LENGTH PIPE DEPTH (from MH)	5' 7'2"		221'	4	Service Connection, 6" VCP, Capped Off		ingitu.Point Pennir		
BW-20 BW-19 Video Tape #2	PIPE LENGTH JOINT LENGTH	5'			1	Service Connection, 6" VCP, Capped Off Service Connection, 6" VCP, Capped Off Longitudinal Crack in Pipe, 2' long with Mineral Stains Radial Crack in Pipe, full circumference		insitu-Point Repair		

**CLOSED-CIRCUIT TELEVISED OBSERVATIONS** REHABILITATION TECHNIQUE SELECTION TABLE

MH MH FROM TO	Line Segment Information		MH FROM	Footage	Qty.	CLOSED-CIRCUIT TELEVISED OBSERVATIONS	Infiltration G.P.M.	REHABILITATION TECHNIQUE / DESECRIPTION	REHAB COST
BW-19 BW-17		VCP 10' 193'	BW-19	0 3' 11' to 15'	1	Manhole #BW-19 Radial Crack in Pipe at Joint, 1/4 circumference Radial Crack in Pipe at Joint, full circumference		Insitu-Point Repair	
Video Tape #2	JOINT LENGTH PIPE DEPTH (from MH)	5'		15'	1	Also, Longitudinal Crack in Pipe, 4' long Radial Crack in Pipe at Joint, Leaking with Mineral Stains  De Mad Crack in Pipe with Mineral Stains	2	insitu-Point Repair	
	LOCATION 13th Street East	Easement		17' 153' 168'	1 1 1	Radial Crack in Pipe with Mineral Stains Joint with Light Root Intrusion Joint with Light Root Intrusion		Chemical Grout Joints	
				176' to Drop 178' to 184' 182' 189' 190' to 193' 193'	1 1	Sag or Dip in Pipe, 1" Water Longitudinal Crack in Pipe, 6' long and Leaking Also with Mineral Stains CAMERA Underwater Outside Drop to manhole 10" PVC, 3' long Manhole #BW-17	0.5		
								Total	\$ 6,800.00
Video Tape #2	PIPE TYPE PIPE SIZE PIPE LENGTH JOINT LENGTH PIPE DEPTH (from MH) LOCATION								
								Total	
Video Tape #2	PIPE TYPE PIPE SIZE PIPE LENGTH JOINT LENGTH PIPE DEPTH (from MH)								
	LOCATION							Total	
Video Tape #2	PIPE TYPE PIPE SIZE PIPE LENGTH JOINT LENGTH PIPE DEPTH (from MH)								
	LOCATION							Tota	1

### CLOSED-CIRCUIT TELEVISED OBSERVATIONS REHABILITATION TECHNIQUE SELECTION TABLE

Prepared By: ALTAIR Environmental Group

Date: June 2004

MH FROM	MH TO	Line Segment Information		FROM	Footage	Qty.	CLOSED CIRCUIT TELEVISED OBSERVATIONS	Infiltration G.P.M.	REHABILITATION TECHNIQUE / DESECRIPTION	REHAB COST
		PIPE TYPE PIPE SIZE PIPE LENGTH JOINT LENGTH	Lined 8"	A-40	0' 31'		Manhole # A-40 Camera cannot go any further due to bubbles in liner constricting the Flow.			
video i uj		PIPE DEPTH (from MH) LOCATION 4th Street West	7' 2" Easement	A-3	0' 16'		REVERSE SET-UP Manhole # A-3 Camera cannot go any further due to bubbles in liner constricting the Flow.		Total	
Video Ta <sub>l</sub>	pe #3	PIPE TYPE PIPE SIZE PIPE LENGTH JOINT LENGTH PIPE DEPTH (from MH) LOCATION								
									Total	
Video Ta	pe #3	PIPE TYPE PIPE SIZE PIPE LENGTH JOINT LENGTH PIPE DEPTH (from MH) LOCATION								
									Total	
Video Ta	pe #3	PIPE TYPE PIPE SIZE PIPE LENGTH JOINT LENGTH PIPE DEPTH (from MH) LOCATION					And the same of th			
		LOCATION							Total	
Video Ta	pe #3	PIPE TYPE PIPE SIZE PIPE LENGTH JOINT LENGTH PIPE DEPTH (from MH) LOCATION								The second secon
		Econ Hon							Total	
									Out Takal	A .=

Sub-Total

\$ 17,600.00



### TIETERA VERDE

Utility System Services

UTILITIES INC.			JOB# 104-06-01 DATE 06/01/04	_ PAGI	= c	)F <u>1</u>
SECTION ON: PINELIAS BAY W	YAC.	DISINE	FROM MANHOLE: BW-1 TO MA	NHOLE	Bu-Z	
C. STARESE	Re⁴. No	Footage	Remarks	Leaks GPN	Clack Ref	Photo No.
Total Lits Tested		0	START INSPECTION @ MH#1			
Total uts Sealed		119	SC 6" VCP/TAP-IN		1	
Type of Pipe VCP Diam. 15"		170	SENDOF VCP START CIP.			
Type of JtSpacing _S_FT		210	END OF UP START VCP			
Section-Length 288		288	END OF INSPECTION @MHHBW2			
Reverse Set Up [] Yes [] No						
Tape # 1 Start 0:00 Finish 0:09						
Direction of Flow						
From MH Depth						
5'7"						
Direction of Measurement						
(From Center of Manhole)						
умн# _2_						
Special Notes						
				-		
	1				-	-
ACCEPTANCE OF WORK COMPLETED	SIG	NATURE INS	SPECTOR	DATE	!	<u>i</u>

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### TIERRA VERDE

Utility System Services

E- UTILITIES INC.		JOB # <u>04-06-01</u> DATE <u>06/01/0</u>	<u>)                                    </u>	E <u> </u>	٤ ]
SECTION ON PINEUAS BAY WAY	DRIVE	FROM MANHOLE: BW-2 TO MA	ANHOLE	BW-	3_
ATTACRED C. STABENE	Re* Footage	Remarks	Leaks GPM	Clock Ref	Photo No.
ots Uts Tested	D	STATET INSPECTION @ MH#BW-2		!	
fotal Uts   Sealed	171	BISC 6"VCP/EPCPR		9-3	
Type of Pipe $\overline{VCP}$ Diam. $\overline{/5}''$	265		L1/4	12-5	
Type of Ut Spacing	1 1	BISC 6"VCP		1	
Section-Length 376FT.		END OF INSPECTION @ MH # BW-3			
Reverse Set Up [ ] Yes [ ] No			<u> </u>		
Tape # 1 Start 0:09					
Finish <u>6.'21</u>					
MH # <u>RW-</u> Z					
Direction of Flow					
From MH Depth					
Direction of Measurement					
(From Center of Manhole)		· ý			
MH# <u>BW-3</u>					
Special Notes					
					<del> </del>
					-
				<u> </u>	<del> </del>
					<u>.</u>
ACCEPTANCE OF WORK COMPLETED	SIGNATURE INS	SPECTOR	DATE		

UTILITIES INC.			JOB# 04-06-01 DATE 06/01/09	£ PAG	<u> </u>	)F <u>2</u>
_	AYD	RIVE	FROM MANHOLE: BW-3 TO M	ANHOLE	BW	-4
C. STABENET	Ref No	Footage	Remarks		Clock Ref	
otal uts Tested		0	STATET INSPECTION @ MH#BW-3		i	
Poral Lis Sealed		162	BISC 6" PVC		1	
Type of Pipe VCP Diam. 15		235	CAMETER CANNOT GO ANY FURTHER			
Type of Jt Spacing			DUE TO DEBRISH LINE.			
Section-Length 340'			WILL SET-UP FOR PREVERSAL			
Reverse Set Up 1/Yes [] No						
Finish $0.40 \rightarrow 0.45$						
MH# <u>BW-3</u>	=					
Direction of Flow						
From MH Depth						
6'9"						
Direction of Measurement						
(From Center of Manhole)						
MH # <u>RW-4</u>						
Special Notes	=					
			•			
						i .
ACCEPTANCE OF WORK COMPLETED	SIC	SNATURE IN	SPECTOR	DATE		

DTILITIES INC.			JOB# 04-06-01 DATE 06/01/04	PAG	2	F 2
SECTION ON: PINETUAS BAY WAY	DR	IVE	FROM MANHOLE: BW-4 TO MA			
A TO FEE C. STABENE	Ref No.	Fostage	Remarks	Leaks GPM	Clock Ref	
Total Uts. Tested		0	START INSPECTION @ MH#BW4			
Total Uts. Sealed		1	END OF INSPECTION			
Type of Pipe VCP Diam. 15"						
Type of Jt Spacing						
Reverse Set Up [] Yes [] No						
Tape # 1 Start 0:40						
Finish 0:45						
MH # <u>EW-4</u>						
Direction of Flow						
From MH Depth						
<u>6'//''</u> Direction of						
Measurement (From Center		<u> </u>				
of Manhole)  MH # \( \overline{\mathcal{B}}\						
Special Notes						
	-					<u> </u>
ACCEPTANCE OF WORK COMPLETED		EN:ATLIRE IN	SPECTOR	DATE	_i	<u>i                                     </u>

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	5	3.3		:			
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Utility System Services

TIERRA VETENE

			JOB # <u>04-06-01</u> DATE <u>06/01/0</u>	<u>.4</u> ₽AG	ε <u>1</u> :	· <u>2</u>
			FROM MANHOLE: BW-4 TO MA			
STABELLE	Ref No	Footage	Remarks	Leaks GPM	i	Photo No
cta Jts Testec		0	START INSPECTION @ MH # BW-4			
ctal Uts. Sealed		196				
ype of Pipe VCP Diam. 15"		202	CAMERA CANNOT GO ANY FURTHER			
ype of Jt Spacing			DUE TO BUILD-UP IN CAST ITECH !	7PE		
ection-Length 202			WILL SET-UPFOR A ROVERSAL			
everse Set Up [4 Yes [] No	*		THIS CAST IRON PIPE IS A		West of the second	
ape # $\frac{1}{\text{Start }0.59}$			CONFLICTING MANHOLE # B	W-5	,	
мн # <u>В</u> w-4						
Direction of Flow						
From MH Depth						
6'11"						
Direction of Measurement						
(From Center of Manhole)						
MH # <u>RW-5</u>						
Special Notes						
+ CONFLICTING MANHOLE						
					a company of the comp	
ACCEPTANCE OF WORK COMPLETED	SIC	SNATURE IN	SPECTOR	DATE		

UTILITIES INC.	<u>-</u>	·	JOB# 04-06-01 DATE 06/01/09	Y PAGE	= 1	)= <u>)</u>
SECTION ON PINEWAS BAY W	JAY '	DRIVE	FROM MANHOLE: BW-6 TO MA	ANHOLE	BW-	:5
A tain Fled C. STABENE	Ref No.	Footage	Remarks	Leaks GPM	Clock Ref.	Photo No
fotal uts   Tested		0	START INSPECTION @ MH # BW-6			
Fotal Uts. Sealed		91	BISC 6" FVC HUY GITTERSE/LOAK	1/4	12	
Type of Pipe UCP Diam. (5		182	END OF VCP START CIP.			
Type of Jt Spacing			CAMETER CANNOT GO ANY FUTCHER			
Section-Length			DUE TO BUILD-UP OF MINETEALS			
Reverse Set Up [] Yes [] No			END OF INSPECTION @			
Fape # Start			CONFLICTING MH#BW-5			
MH# BW-6	:					
Direction of Flow						
From MH Depth						
7 = 7			•			
Direction of Measurement						
(From Center of Manhole)						
MH# <u>BW-5</u>						
Special Notes						
					}	
ACCEPTANCE OF WORK COMPLETED	SIG	NATURE INS	SPECTOR	DATE		



### TIERRA VERDE

Utility System Services

			JOB# <u>04-06-01</u> DATE <u>06/01/01</u>			
			FROM MANHOLE: BW-6 TO MA	ANHOLE	BW-	7_
ALROS C. STAISENE	Ref. No	Footage	Remarks	Leaks GPM	i	
refluts Tested		٥	START DUSPECTION & MH#BW-6			
pe of Pipe <u>UCP</u> Diam. <u>15</u>		401	ENDOF INSPECTION @ MH#BW-7			
pe of JtSpacing						
ction-Length 401ET						
verse Set Up [] Yes [] No  pe # Start						
MH# BW-6						
Direction of Flow From MH Depth						
7FT						
Direction of  Measurement  (From Center						
of Manhole)  MH # <u>BW-7</u>						
special Notes						
						-
ACCEPTANCE OF WORK COMPLETED	SIC	SNATURE IN	ISPECTOR	DATE		



### TIERRA VERDE

Utility System Services

EV UTILITIES INC.			JOB # 04-06-01 DATE 06/01/0	<u>4</u> PAG!	≣ <u> </u>	)= <u> </u>
_	PIVE	<del></del>	FROM MANHOLE: BW-7 TO M	ANHOLE	BW	-8
tar Fee C. STARREDE	Ref Fo	otage	Remarks	Leaks GPM	Clock Ref	Photo No
ota Uts Tested		0	START INSPECTION @ MHH BW-7			
otal Uts. Sealed	3	340	END OF INSPECTION @MH # BW-8			
ype of Pipe VCP Diam. 15"		····				
ype of Jt Spacing						-
ection-Length 340FT						
everse Set Up [] Yes [] No						
ape # 1 Start 1:16						
Finish <u>1:26</u>						
МН# <u>Вш 7</u>						
Direction of Flow						
From MH Depth					<u> </u>	
 Direction of					<del>                                     </del>	
Measurement (From Center					<u> </u>	-
of Manhole)				-	<del> </del>	<del> </del>
MH# <u>BN8</u>	:					
Special Notes	-				-	<del> </del>
				-   	-	
						-
					-	-
					-	-
				-	-	<u> </u>
ACCEPTANCE OF MORK COMPLETED				DATE	<u> </u>	

### Wiroumental Group TIERRA VERDE

Utility System Services

DTILITIES INC.			JOB = 04-06-01 DATE 06/01/0	<u>4</u> PAG	E L C	;= <u>1</u>
			FROM MANHOLE: BW-9 TO			
Atai Red C. STABELY	Ref. No	Footage	. Remarks	Leaks GPM	Clock Ref	Photo No
Total uts. Tested.		٥	START INSPECTION & MH# BW-9			
Tota: Uts. Seared		126	END OF JUSPECTION @ MH#BW-8			
Type of Pipe VCP Diam. 18"  Type of Jt Spacing _5"						
Section-LengthSpacing						
Reverse Set Up [] Yes [] No						
Tape # 1 Start 1:26				_		
Finish _/: 31						
MH # <u>BW-9</u>						
Direction of Flow						
From MH Depth  9'Z''						
Direction of Measurement						
(From Center of Manhole)						
MH # <u>BW-8</u>						
Special Notes				_		
				_		
ACCEPTANCE OF WORK COMPLETED	SIG	NATURE INS	SPECTOR	DATE		

Unuties INC			JOB# 04-06-01 DATE 06/01/04	L PAG	= =	7F 1
	DR	ue-	FROM MANHOLE: BW-9 TO M.	ANHOLE	Bw-	10
CA STABENE	Ref No	Footage	Remarks		Clock Ref.	
cts Jtd Tested		D	START INSPECTION @ MH# BW9			
fotar uts. Sealed		213	ENDOFTHSPECTION & MH # BW-10			
ype of Pipe VCP Diam. 18"						
ype of Jt Spacing				<u> </u>		
Section-Length 213				ļ		
Reverse Set Up [] Yes [] No						
Tape # 1 Start 1:31 Finish 1:37						
MH # BW-9				-		
Direction of Flow						
From MH Depth				1		
9'2"						
Direction of Measurement						
(From Center of Manhole)						
MH# <u>BW-1</u> 0						
Special Notes	-				-	
	-			_	-	
<del></del>	-					
				+		-
				-		-
				-		
ACCEPTANCE OF WORK COMPLETED	SIC	NATURE IN	SPECTOR	DATE		

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	VIt	21	200	
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	Family	011710	ntal	Groun

### TIERRA VERZDE

. Utility System Services

CTION ON PINEUAS BAY W			FROM MANHOLE: BW-10 TO MA			
Red C. STAROUE	Ref.	Footage	Remarks	Leaks GPM	Clock Ref	Photo No.
Uts Tested		0	START INSPECTION & MH#BW-10			
: Jts. Sealed		477	ENDOFINSPECTION @ MH# BW-11			
e of Pipe UCP Diam. 18"						
e of Jt Spacingtion-Length						
erse Set Up [ ] Yes [ ] No						
e# 1 Start 1:37 Finish 1:49						
MH # BW-10						
Direction of Flow						
From MH Depth						
Direction of Measurement						
(From Center of Manhole)						
→ мн# <u>ВW-1</u> 1						-
pecial Notes					+	
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	A		<u>_</u>	. :		
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## TIERRA VETENE

Utility System Services

DTILITIES IN	JC.		JOB# 04-06-01 DATE 06/02/0	<u>4</u> PAG	E	F
SECTION ON PINELLAS BAY WAY	DIZIV	Æ	FROM MANHOLE: RW-1( TO MA	ANHOLE	BW.	-/2
Adam Res C. STARONE		Footage		Leaks		Photo
Total Uts Tested		0	START INSPECTION @ MH# BW-11			
Tota Uts Sealed		_	ENDOF INSPECTION 6 MH# BW-12			
Type of Pipe VCP Diam. 18"						
Type of Jt Spacing						
Section-Length 358						
Reverse Set Up [] Yes [] No						
Tape # 2 Start 0:00 Finish 0:09						
MH # BW-11						
Direction of Flow						
From MH Depth						
11'7"						
Direction of Measurement (From Center of Manhole)						
MH# BW-12						
Special Notes						
ACCEPTANCE OF WORK COMPLETED	SIGN	IATURE INS	PECTOR	A.T.C.	1	

UTILITIES INC.			JOB# <u>04-06-01</u> DATE <u>06/02/0</u>	<u>4</u> PAGI	E <u>(</u> c	F J
•	DRI	VE	FROM MANHOLE: BW-12 TO MA	ANHOLE	BW-	13
- TARENE	Ref. No	Footage	Remarks		Clock Ref	
fota Uts Tested		D	STAIRT INSPECTION @ MH # 13W-12			
Total Stall Seared		250	BISC 6" PVC		1	
Type of Pipe VCP Diam. 18"		382	END OF INSPECTION @ MH# BW-13			
Type of J: Spacing						
Section-Length <u>382</u>						
Reverse Set Up [ ] Yes [ ] No						
Tape # 2 Start 0:09						
Finish <u>0:20</u>						
MH # <u>RW-1</u> 2						
Direction of Flow					<u> </u>	
From MH Depth						
Direction of						
Direction of Measurement						
(From Center of Manhole)						
MH# <u>BW-/3</u>						-
Special Notes						
	-				<del> </del>	
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		-				
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						<u> </u>
ACCEPTANCE OF MORK COMPLETED	SIC	MATURE IN	SPECTOR	DATE		

JAY D	DIVE	FROM MANHOLE: RW-13 TO MA	ANHOLE	BW	-14
Re*	Footage	Remarks	Leaks GPM	Clock Ref	Photo No
	0	START INSPECTION @ MH#BW-13			
	383	END OF INSPECTION @ MH#BW-14			
	-				
=				-	
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	1				
					<del> </del>
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					-
					 <del> </del>
	UAY D	Ref Footage	Ref   Footage   Remarks	Ref Footage Remarks Leaks No O START TASPETIME MH# BW-13	O START INSPECTION @ MH#BW-13

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TIERRA VERDE Utility System Services
TELEVISION INSPECTION AND WORK REPORT

		JOB # 04-06-01 BATE 06/02/09	<u>4</u> PAGE	= <u> </u> (	= <u>L</u>
SECTION ON: PNEURS BAYWAY DR	LIVE	from manhole: <u>BW-14</u> to ma	ANHOLE	BW-	15
tar Rep C. STABELE No	Footage	Remarks	G5M Feaks	Clock Ref	Proto No
otal Utal Tesred	0	START INSPECTION @ MH#BW-14			
ype of Pipe VCP Diam. 18'	386	END OF INSPECTION & MH # BW-15			
ection-Length 386 EF					
everse Set Up [ ] Yes [ ] No					
ape # 2 Start 0:29 Finish 0:39					
МН# <u>В</u> W-14					
Direction of Flow From MH Depth					
Direction of					
Measurement (From Center of Manhole)					
MH # RW-15					
Special Notes					-
ACCEPTANCE OF WORK COMPLETED	SIGNATURE II	NSPECTOR	DATE		



# nental Group TIERRA VERDE

Utility System Services

C. STABONE	Ref Foota	ge Remarks	Leaks	Clock Ref	
diuts. Testedi	0				
al Uts. Sealed		ENDOFINSPECTION @ MH# BW-16			
e of Pipe VCP Diam. 18"	50	SVDOF INSPECTION E THE ISSUE TO			
e of JtSpacing					
tion-Length 360 ET					
verse Set Up [] Yes [] No					
e# 2 Start 0:39					
Finish <u>0:48</u>	_				
MH# <u>BW-1</u> 5					
Direction of Flow					
From MH Depth					
9'11"					
Direction of Measurement					
(From Center of Manhole)					
мн# <u>ВW-IC</u>					
pecial Notes					

## al Group TIERRA VERNE

Utility System Services

Unuties INC.			JOB# 04-06-01 DATE 06/02/04	£ PAGE	= <u>(</u> o	; <u> </u>
SECTION ON: PINEWAS BAY WAS	DI	211/5	FROM MANHOLE: BW-16 TO MA	ANHOLE	BW-	17_
STABENE	Ref No	Footage	Remarks	Leaks GPM	Clock Ref	
ta uts Tested		O	STAIRT INSPECTION @ MH#RW-16			
tal Uts. Sealed		179	BISC 6" VCP / LEAYING	1	12	
rpe of Pipe VCP Diam. 18"		i _	END OF INSPECTION @ MH# BW-17			
rpe of Jt Spacing						
ection-Length 339 FT						
everse Set Up [ ] Yes [ ] No						
pe # 2 Start 0:48						
Finish <u>0:58</u>						
— мн# <u>ВW-1</u> 6						
Direction of Flow						
From MH Depth						
4444						
Direction of Measurement						
(From Center of Manhole)						
м́н # <u>ВW-1</u> 7						
Special Notes						
						!
					1	
		0	10000000	5 A T C		

		JOB # 04-06-01 DATE 06/0		
	IE /13TH &	FROM MANHOLE: KW-17	TO MANHOLE:	BW-18 OF UFT STATION
A tair Rez. C STABENE	Pe <sup>r</sup> Foota No.	ge ; Pemaiks	Leaks I GPM	Clock Photo Ref No.
Pote' its   Fested	0	START INSPECTION & MH# RW	-17	
Total uts Sealed	38	BISC 6" PVC		11
Type of Pipe PVCDiam. 18"	187	BISC G"PUC		l
Type of Jt Spacing 13	253	BISC 6" PUC/LEAKING	2/4	11
Section-Length 331 FT	300	CAMERA UNDER WATER		
Reverse Set Up [ ] Yes [ ] No	330	CAMERA OUT OF WATER		
Tape # 2 Start 0:58 Finish 1:09	33	END INSPECTION @ MH# BW-18	<b>,</b>	
MH # BW-17				
Direction of Flow				
From MH Depth				
12 <sup>FT</sup>				
Direction of  Measurement (From Center  of Manhole)				
MH # <u>BW-18</u>				
Special Notes				
ACCEPTANCE OF WORK COMPLETED	SIGNATURE	INSPECTOR	DATE	

Unuties INC.			JOB # 04-06-01 BATE 040	52/04 PAGE	= 1 =	,= <u>1</u>
SECTION ON: PINELIAS BAY WAY D	ZIVE		FROM MANHOLE: CONDOS	TO MANHOLE:	CONT	6610 105 #
TATRENE	Ref No	Footage	Remarks	Leaks GPM	Clock Ref.	Photo No
deluts Tested		0	STARTINSPECTION			
tal uts. Sealed		30	BEGIN SAG Z'			:
pe of Pipe VCP Diam. 10"		48	END SAG			
pe of Jt Spacing		140	BEGIN SAG 2"			
ection-Length $\frac{181}{1}$		155	END SAG			
everse Set Up [] Yes [] No		181	END OF INSPECTION			
pe# <u>Z</u> Start <u>1:09</u> Finish <u>1:16</u>						
MH # CIECA VERDE						
Direction of Flow		<u> </u>				ļ
From MH Depth						
Direction of						
Measurement (From Center		ļ				ļ
of Manhole)		·				
MH# VILLAGGIO					+	
pecial Notes	ļ					-
					-	
					-	-
	-	-				
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-	-				-	· 
ACCEPTANCE OF WORK COMPLETED		NATURE IN	2050700	DATE	1	<u> </u>

UTILITIES INC.			JOB# 04-06-01 DATE 06/03/0	<u>,4</u> 246	E <u>1</u> 0	<u> </u>
SECTION ON: 13TH ST. EAST			FROM MANHOLE: BW-ZL TO N	VANHOLE	BW-	20
STABOLE	⊋er No	; Footage	Remarks	Leaks GPM		Photo No
Cital Utal Tested		D	START INSPECTION Q MH# BW-21			
icta: ets. Sealed		8	OFFSET JOINT 3/4"		3	
Type of Pipe VCP Diam. 10"		29	BEGIN SAG 1"			
Type of Ut Spacing		36	SAG Z'			
Section-Length 74'		67	SC & "VCP/CAPPED		8-11	
Reverse Set Up [] Yes [] No		72	END SAG			
Finish 1:21		74	END INSPECTION @ MH# BW-20			
MH# <u>B</u> W-21	_					
Direction of Flow						
From MH Depth						
6'8"						
Direction of Measurement (From Center						
of Manhole)  MH # <b>BW-ZO</b>						
Special Notes						
	_					-
					, , , , , , , , , , , , , , , , , , ,	-
					12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
ACCEPTANCE OF WORK COMPLETED	SIC	SNATURE IN	SPECTOR	DATE _		

Utility System Services

ECTION ON: 13TH ST. EAST			JOB# <u>04-06-01</u> BATE <u>06/03/04</u> FROM MANHOLE: <u>RW-20</u> TO MA			
acres C. STABENE	Re*	Fcotage	Remarks	Leaks GPM	Clock Ref	
el Úts. Tested		0	START INSPECTION @ MHH BW-70			
al Uts. Sealed		Z	RCP/OFFSET 1/2"		12-12	
pa of Pipe VCP Diam. 10"		84	SC 6" VCP/CAPPED		9-12	
pe of Jt Spacing		221	SC 6" VCP/CAPPED		9-12	
ction-Length 250#		244	LCP W/ms -> 246		12	
verse Set Up [] Yes [] No		245			12-12	
pe # <u>2</u> Start <u>1:21</u> Finish <u>1:38</u>		250	END OF INSPECTION & MH# BW-19			
MH # BW-20	=					
Direction of Flow						
From MH Depth						
7'2"						
Direction of Measurement						
(From Center of Manhole)						
MH # BW-19						
Special Notes	-					
					1	:

Utility System Services

SECTION ON: 13TH ST. EAST.		JOB# <u>04-06-01</u> DATE <u>06/03/04</u> FROM MANHOLE: <u>BW-19</u> TO MA			
tair Red C. STARFUE Red	Footage			C'ock	Photo
ital uts. Testec	D	START INSPECTION @ MH#BW-19		1	40
ota Uts Sealed	3	PCP@ JT		9-12	
ype of Pipe VCP Diam. 10"	(1	RCP/LCP -> 15		12-12	
ype of Jt Spacing	15	RCP W/MS LEAKING	Z	12	
ection-Length 193 ET	17	RCP W/MS		12-1	
everse Set Up [] Yes [] No	153			2	
spe # Z Start <u>1:38</u>	168	RTEST LIGHT		1)	
Finish <u>1:43</u>	176	BEGIN SAG 1"			
МН# <u>ВW-1</u> 9	178	LCP U/MS LEAKING -> 184	1/2	12	
Direction of Flow	182	CAMETRA UNDETE WATER			
From MH Depth		WILL USE JETTER TO DRAW THE WATE	R		
Direction of		Down			
Measurement	189	DROP INTO MANHOLE			
(From Center of Manhole)	190	ENDOF VCP START PVC			
MH # BW-17	193	END OF INSPECTION@ MH# BW-17			ļ
Special Notes					
				-	
				-	
				-	-
ACCEPTANCE OF WORK COMPLETED S		SPECTOR	5.75		<u> </u>

Unlines INC.			JOB# <u>04-06-01</u> DATE 06/03/04	£ PAGE	= 1	: <u>Z</u>
SECTION ON: 4TH STREET WES	.T		FROM MANHOLE: A-40 TO M.	ANHOLE	A-3	
C. STARENE	Ref No.	Footage	. Remarks		Closii Ref	
ora Uts Tested		D	START INSPECTION @ MH # A-40			-
otal uts. Sealed		31	CAMETRA CAN NOT GO ANY			
ype of Pipe LINED Diam. 8"			FUITHER DUE TO BUBBLES			
ype of Jt Spacing N/A			IN LINETZ. WILL SET-UP FOR	-	-	
Section-Length			A REVERSAL.			
Reverse Set Up [ ] Yes [ ] No						
ape # 3 Start 0:00	-					
Finish _0:05	-			-		-
мн # <u>А-40</u>						
Direction of Flow						
From MH Depth						
7'2"						
Direction of Measurement						
(From Center of Manhole)						
MH# <u>A-3</u>						
Special Notes						
ACCEPTANCE OF WORK COMPLETED	SI	GNATURE IN	USPECTOR	DATE _		

•	JEST_		from manhole: A-3 to ma	ANHOLE	77.	70
STARDLE	Ref No	Footage	, Remarks	Leaks GPM	Clock Ref.	Photo No
alluts Tested		٥	START INSPECTION @ MH# A-3			!
eliuts Seeted		16	CAMETER CAN NOT GO ANY			-
pe of Pipe <b>(INET)</b> Diam. 8"			FURTHER DUE TO BURBLES IN			
pe of Jt Spacing			UNER			
ction-Length						
verse Set Up [] Yes [] No				<u>}</u>		
De # 3 Start 0:05 Finish 0:13	-					
MH# A-3						
Direction of Flow From MH Depth						<del> </del>
Troin with Deptit						
Direction of					<del> </del>	-
Measurement (From Center		1.				
of Manhole)  MH # A-40						
	=				-	
pecial Notes						
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						-
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Project 061-0646-118-03-01 Supporting Documentation Yearly Amortization

May-17-04 8:55AM:

PAGE US! 04

Page 1/2

FLORIDA JETCLEAN INC.

### HIGH PRESSURE WATER JETTING-PIPELINE TV INSPECTION-PIPE LOCATING

37 Windward Island Clearwater Fl 33767

TEL: 727-462-5516

800-226-8013

www. floridajetclean.com

FAX: 727-442-2222

#### FAX/MEMORANDUM

DATE

: 5/14/2004

TO **HROM** 

: Tony Wierzbicki, Mid-County Services, Inc. : Graeme Towns (gtowns! (@lampabay.rr.com)

SUBJECT

: Tierra Verde RFP

Thank you for your inquiry.

FLORIDA JETCLEAN INC., in husiness since 1987, specializes in projects of the type being bid. We use state of the art PEARPOINT video equipment with software generated reports to allow easy evaluation of the pipe surveys. Video snapshots of major problem areas are included at no extra charge.

Our camera equipment is certified Class 1, Division 1, Groups C & D which in layman terms means "explosion proof". Should our equipment have an electrical failure within a methage contaminated sewer, our equipment will not create an explosion. Only **PEARPOINT** to our knowledge at this point in time offers a complete range of camera equipment certified to this level.

For jetcleaning we use HARBEN trailer mounted equipment well suited to properly clean pipes limited to easement access. There will be no potential for damage to property,

There are endless options for remediation ranging from grouting repairs (a band aid repair) to complete relining. We will assess and recommend an appropriate economic repair process when we know the pipe condition.

The prices below include all costs as stated in your RFP except repairs.

#### Tierra Verde Sanitary Sewer System

Jeteleaning 21250 LF of 8" VCP pipe

\$11,575.00 invoice included

(based on removal of routine grease/debris, if there is extensive root infiltration this cost may increase)

Video inspection of the above pipe

\$14,875.00

39,972 90 invoice from Altair 2,178 .75 captime 11,575.00 invoice from FL Jet Clean

14,875.00 from above

\$68,601.65

May-17-04 8:55AW;

Page 2/2

#### Subject to:

- Continuity of access required to enable completion in a single mobilization
- Traffic control limited to cone placement
- Written log/report provided along with video tapes on completion
- Payment: net 30 days from completion

Time estimate - 8-10 days.

Thank you for the opportunity to quote.

Regards.

Accepted:

T. Wun falla.

Construction Mgr.

6/7/64

WORK ORDERS CAPTINE 2003 WORK OF	IDER CAPITAL	IZED CHARGES REPORT FOR	COTPANT	• UD1 DIAIE - F	L 80 1	W UITM	~~	
SUB SUBDIVISION NAME	TYPE PR	U PROJECT DESCRIPTION		ACCOUNT NUMBER	INIT	HOURS (	EXT ANOUNT	RATE
0646 TIERRA VERDE UTILITIES	SEMER 13	6 SEMER PROJECT		0646-1160201	AXII GHA GTA MTO PCF TTS	24 Mars 25	34.00 1.833.00 1.03.00 1.03.00	25 00 00 00 00 00 00 00 00 00 00 00 00 00
			TOTAL	0646-11	196	6,043.	.75	
· ·			TOTAL	SEMER	196	6,043.	75	
0646 TIERRA VERDE UTILITIES	defer 11	8 DEFERRED PROJECT		0646-1180301	AXM GTA PCF	ş	84.00 57.33	\$ 00 \$ 25
[			TOTAL	0646-11	6	<b>米197.</b>	25 (line	1)
			TOTAL	DEFER	6	197.	25	

TOTAL SUBDIVISION 202 6,241.00

REPORT UIRCHR(35A) WORK ORDERS CAPTIME 2003 WORK ORDER CAPITALIZED CHARGES REPORT CREATED ON 14:05:32 01-03-04

# REPORT UIRCHR(35A) UI SYSTEM PAGE 1 WORK ORDERS CAPTIME 2004 WORK ORDER YEAR END CAPITALIZED CHARGES REPORT FOR COMPANY = 061 STATE = FL AS OF 01-03-05

SUB SUBDIVISION NAME	TYPE	PRJ	PROJECT DESCRIPTION		ACCOUNT NUMBER	INIT	HOURS EXT	AMOUNT	RATE
0646 TIERRA VERDE UTILITIES	SEWER	116	SEWER PROJECT		0646-1160302	AXW GHA GTA PCF TTS	38 1, 6 6 6 38 1,	,083,00 171,00 171,00 387,00 ,083,00	28.50 28.50 28.50 64.50 28.50
			.10	TAL	0646-11	94	2,895,00		
			TO <sup>*</sup>	TAL	SEWER	94	2,895.00		
0646 TIERRA VERDE UTILITIES	DEFER	118	DEFERRED PROJECT		0646~1180301	AXW GHA GTA MTD PCF RWR TTS	13 ? 2 4 2 4 35	370.50 199.50 57.00 114.00 129.00 114.00 997.50	28.50 28.50 28.50 28.50 64.50 28.50 28.50
			TO	TAL	0646-11	67	<b>*1,981.</b> 50	(line	2)
			TO	TAL	DEFER	67	1,981.50		
			то	TAL	SUBDIVISION	161	4,876.50		

REPORT UIRCHR 35A) WORK ORDERS CAPTIME 2004 WORK ORDER YEAR END CAPITALIZED CHARGES REPORT CREATED ON 14:52:48 01-03-05

# Altair Environmental Group, LLC

710 S Milwee Street Longwood, FL 32750

 •	11	Ìν	0	IÇ	Ê
 _					

Date	Invoice #
6/9/2004	1292

Bill To	 
Utilities, Inc. 200 Weathersfield Ave. Altamonte Springs, Florida 32714	

West of the

		P.O. No.	Terms	Project
			Not 30	04-006-01
Quantity	Description		Rate	Amount
	Copies of Dump Manifests, Video Tapes, and Rep	manhole	1,800.00 800.00 2.50 5.60	1,800.0 5,600.0 1,862.5 30,710.4
	will be submitted under separate cover,		1	
smo Tent Info. Ref. Involces ref	will be submitted under separate cover.  When Gover or Both (Circle One  Date			
red into	West Green or Both (Chris Che			

MO

Phone#	Fax#
407-339-7134	407-339-6618

71	Date # 01 pages 4
60	From TONV W.
	Co.
	Phone #
	Pax #
	71 45

# 

RECEIVED JUL 19 2004

# Florida Jetclean Inc.

37 Windward Island Clearwater FL 33767

JUL 19 many UTILITIES, INC.

UTILITIES, INC Number: 7359

Date:

July 06, 2004

Ship To:

Bill To:

Mid-County Services, Inc. Attn. Tony Wierzbicki 200 Weathersfield Avenue Altamonte Springs, FI 32714

**PO Number** 

**Terms** 

**Project** 

Contract

Net 30

Tierra Verde

Date

Description

**Amount** 

Completion of jetcleaning phase

11,575.00

chaye to Turn Vede

MD

Total

\$11.575.00

Please pay against invoice. No statement will be sent.

800-226-8013

in the event that this invoice is not paid in full within the time set forth above, customer agrees to pay all costs and attorney fees incurred in any suit or action undertaken to recover those amounts remaining due

UTILITIES, INC.
DEFERRED MAINTENANCE (SE 4):
129/12004 11
FIMANCE -> STANDARO ENTRIES -> SE4

DATE: 1/8/2009 TIME: 11:27 AM

L				ENDING COST BEFORE	LATE ENTRIES	ADDITIONS Jan - December	ENDING COST BEFORE	1/1/04 BEGINNING		AMORT	Prior Amort	Prior Amen	Prior Amort	Prior Amort	Prior Amort	Prior Amort	Prior Amort	Prior Amert	Prior	Prior	Prior	Total Prior	ENDING	NET BOOK	YTD	Years	
:	<u>DESCRIPTION</u> TIERA VEROE UTILITIES, INC.	RATE	DATE	PAJE	PRIOR YEAR	2004	PAJE	ACC AMORT	VALUE	Month	November	October	September		July	June	May	Apr	Wer	Feb	Jan	Amort	ACC AMORT	YALUE	Amort	Remenino	
•	1887054 TV SEWER MAINS	20.00%	10/1/2004	0.00		22,725.00	22,726.00	0.00	22,775.00	379.00	379.00	379.00	0.00	0.00	0.00	0.00	8.00	0.00			0.00	758.00	1,137.00	21,588.00		4.76	
	TOTAL COMM			0.00	0.00	22,725.00	22,726.00	0.00	22,725.00	379.00	379,00	379.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	758.00	1,137.00	21,588.00	1,137.00	4.75	21,967,00

UTILITIES, INC.
DEFERRED MAINTENANCE (SE 4)
12/31/2006 12
FMANCE -> STANDARD ENTRIES -> SE4

DATE: 1/8/2009 TIME: 11:11 AM

L		ŧ		BEFORE		Jan - December			NET BOOK		Amost	Amort	Amort	Amert	Ament	Amort	Prior Amort	Prior Amort	Prior Amort	Amort	Amort	Amort	Prior	ENDING	ENDING NET BOOK	YTD	Years
	DESCRIPTION	RATE	DATE	PALE	PRIOR YEAR	2005		ACC AMORT	YALUE					Saptember			June	May	Apr	Mar	Feb			ACC AMORT	VALUE	Amert	
18	ERA VERDE UTE ITES INC. 82054 IV SEWER MAINS	20.00%	10/1/2004	22,725.00	53,726.65		76,451.65	1,137.00	75,314.65	1,274.00		1,274.00	1,274.00	1,274.00	1,274.00	1,274,00	1,274.00	1,274.00	1,274.00	1,274.00	1,274.00	1,274.00	14,014.00	16,425.00	60,026.65		3.93
	TOTAL COSS			22,725.00	53,726.65	0.00	76,451.86	1,137.00	75,314.65	1,274.00		1,274.00	1,274.00	1,274.00	1,274.00	1,274.00	1,274.00	1,274.00	1,274.00	1,274.00	1,274,00	1,274.00	14,014.00	16,425.00	60,026.65	15,288.00	3.93

Utilities, Inc.
Deferred Mantenance (SE 4)
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DATE: 1/8/2009 TIME: 11:15 AM /

- 1				ENDING COST	LATE	ADDITIONS	ENDING COST	1/1/06	BEGINNING	AMORT	Prior		Prior	Prior	Prior	Priet	Prior	Prior	Prior	Prior	Prior	Prior	Total		ENDING		
				BEFORE	ENTRÆS	Jan - December	BEFORE	BEGINNING	NET BOOK	CURRENT	Amort	Amort	Amert	Amort	Amort	Amort	Amort	Amort	Amort	Amort	Amort	Amort	Prior	ENDING	NET BOOK	YTD	Years
	<u>DESCRIPTION</u>	RATE	DATE	PAJE	PRIOR YEAR	2004	PAJE	ACC AMORT	VALUE	Month	December	November	October	September	Angust	July	June	May	Apr	Mar	Fab	.lan	Amort	ACC AMORT	YALUE		Remarkoa
	TIERA VERDE UTILITIES, INC.								_ ı													****		CHE 14-141		*HINKS	SAMILHOUNIA
	1662054 TV SEWER MAINS	20.00%	10/1/2004	76,451.85			76,451.65	18,425,00	60,026,68	1,274,00		1 274 00	1,274,00	1.274.00	1,274.00	1 274 00	1,274,00	1 274 00	1 274 00	1 274 700	1,274.00	1,274.00	14,014.00	31,713.00	44,738,65		2.93
									13,10	1,211.11.11		.,		7,274.00	1,2,74.00	1,214.00	1,574,00	1,217,55	1,2,14,00	1,2,74.00	1,4,14,00	1,214,00	14,014,00	21,113.00	44,720.03		2.83
	FOTAL COMES			78 451 85	0.00	n n	78,451.65	16,425.00	60,026,65	1,274,00		1,274.00	1,274.00	1,274.00	1,274.00	1,274,00	1,274.00	1,274,00	1,274.00	1 274 00	1,274.00	1,274.00	14,014,00	31,713.00	44,738.65	45 000 00	
				10,701.00		0.00	15,441.05		40,020.40	1,714.00		1,217.00	1,217.00	1,214.00	1,214.00	1,274,00	1,274.00	1,214,00	1,214.00	1,214,00	1,274,00	1,277.00	14,014.00	31,713.00	44,730.00	15,288.00	2.93

UTILITIES, INC.
DEFERRED MAINTENANCE (SE 4)
11/30/2007
FINANCE > STANDARD ENTRIES > SE4

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Side	DESCRIPTION	RATE	DATE	ENDING COST BEFORE PAJE	LATE ENTRIES PRIOR YEAR	ADDITIONS Jan + December 2007	ENDING COST BEFORE PAJE	1/1/07 BEGINNING ACC AMORT	BEGINNING NET BOOK YALUE	CURRENT	Prior Amort December	Prior Amort November	Prior Amort October	Prior Amost September	Prior Amort August	Prior Amort July	Prior Amort June	Prior Amort May	Prior Amort Apr	Prior Amort Mar	Prior Amort Feb	Prior Amort Jan	Total Prior Amert	ENDING ACC AMORT		YTD Ameri	Years Remaring
0646 <u>TERRE</u> 1862064	VERDE UTILITIES, INC./NO STP: TV SEWER MAINS	20.00%	10/1/2004	76,451.65			76,451.66	31,713.00	44,738.65	1,274.00			1,274.00	1,274.00	1,274.00	1,274.00	1,274.00	1,274.00	1,274.90	1,274.00	1,274.90	1,274.00	12,740.00	45,727.00	30,724.65		2.01
	TOTAL CORE!			76,451.65			76,451.65	21,713,00	44,738.65	1,274.00			1,274.00	1,274.00	1,274.60	1,274.00	1,274.00	1,274.00	1,274.00	1,274.00	1,274.00	1,274.00	12,740.00	45,727.08	30,724.65	14,014.00	2.01

Page 1 of 1

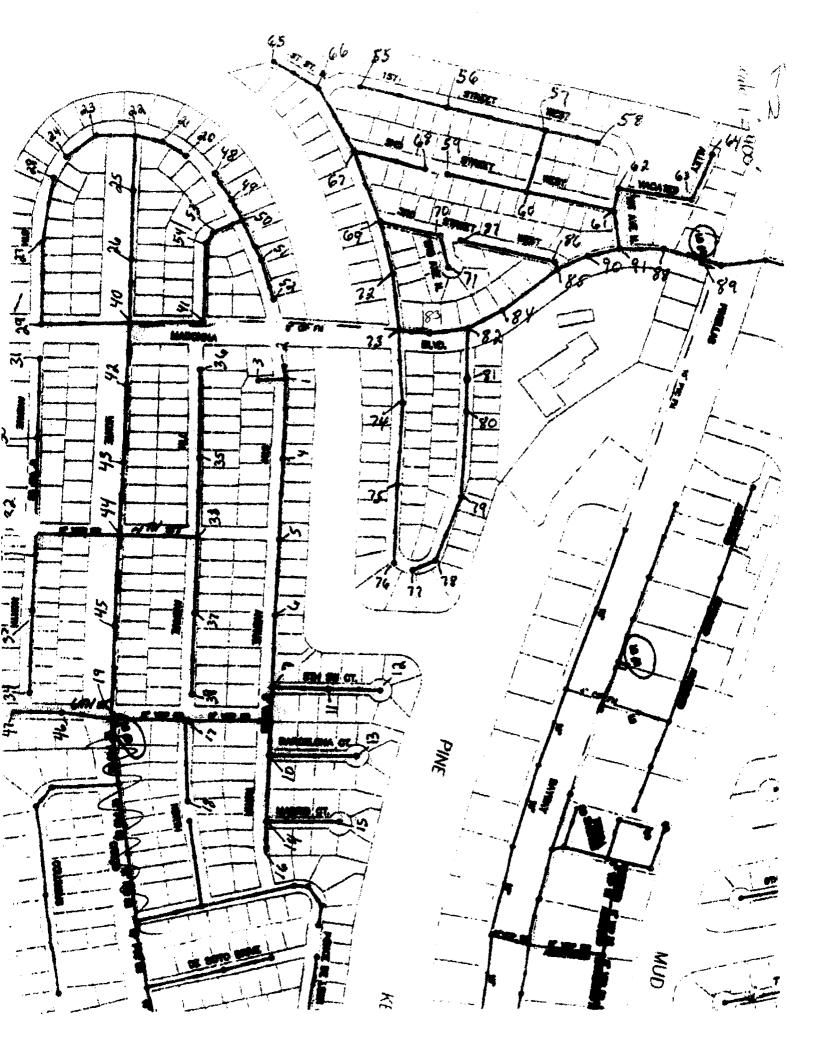
Utilities Inc

Depreciation Expense Report

Eq St LT Cost Asset Number Accumulated Depreciation ----- Depreciation Expense Quarter to Date Net Book Value Description 100111 TV SEWER MAINS AA 76451.65 61019.47 14016.14 15432.18 2548.39 76451.65 61019.47 14016.14 2548.39 15432.18 100 Deferred Charges 76451.65 61019.47 14016.14 15432.18 2548.39

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# CCTV Surveys List for MID-COUNTY SERVICES, INC. TIERRA VERDE UTILITIES

Number of surveys in this list is 114 as of Wednesday, September 01, 2004 Unit of measure: Ft

Setup	Date	Road	Start M'hole	Finish M'hole	Scheduled Length	Surveyed length
1	07/16/2004	8TH AVE N	1	2	36.5	36.5
2	07/16/2004	8TH AVE N	1	3	110.8	110.8
3	07/23/2004	8TH AVE N	5	4	300.0	169.0
4	07/23/2004	8TH AVE N	5	6	337.4	337.4
5	07/23/2004	8TH AVE N	7	6	337.4	86.2
6	07/23/2004	SW 5TH CT	7	11	224.1	224.1
7	07/23/2004	SW 5TH CT	12	11	224.1	3.2
8	07/23/2004	BARCELONA CT	10	13	367.3	367.3
9	07/23/2004	8TH AVE N	10	14	295.2	295.2
10	07/23/2004	8TH AVE N	10	9	149.4	149.4
11	07/30/2004	8TH AVE N	4	1	340.9	340.9
12	07/30/2004	8TH AVE N	4	5	340.9	3.6
13	07/30/2004	8TH AVE N	5	4	340.9	187.2
14	07/30/2004	8TH AVE N	6	7	340.9	76.9
15	07/30/2004	SW 5TH CT	12	11	224.7	224.7
16	08/05/2004	MADRID CT	14	15	296.6	296.6
17	08/05/2004	8TH AVE N	14	16	118.5	118.5
18	08/05/2004	8TH AVE N	8	7	18.3	18.3
19	08/05/2004	8TH AVE N	8	9	115.7	115.7
20	08/05/2004	6TH ST	17	9	387.0	216.6
21	08/05/2004	7TH AVE N	17	18	369.4	369.4
22	08/05/2004	6TH ST	17	19	300.4	300.4
23	08/06/2004	6TH ST	9	17	387.0	171.2
24	08/06/2004	8TH AVE N	20	21	96.2	96.2
25	08/06/2004	8TH AVE N	22	21	101.5	101.5
26	08/06/2004	8TH AVE N	22	23	157.8	157.8
27	08/06/2004	8TH AVE N	23	24	154.3	154.3
28	08/06/2004	MONTE CRISTO	22	25	261.0	193.2
29	08/06/2004	MONTE CRISTO	25	22	261.0	68.4

Setup	Date	Road	Start M'hole	Finish M'hole	Scheduled Length	Surveyed length
30	08/06/2004	MONTE CRISTO	25	26	264.0	264.0
31	08/06/2004	8TH AVE N	27	28	201.0	0.9
32	08/06/2004	8TH AVE N	27	29	394.8	394.8
33	08/09/2004	8TH AVE N	28	27	201.0	182.1
34	08/09/2004	8TH AVE N	30	31	382.7	382.7
35	08/09/2004	8TH AVE N	30	32	408.0	378.6
36	08/09/2004	8TH AVE N	33	32A	239.9	239.9
37	08/10/2004	8TH AVE N	32	30	408.0	30.2
38	08/10/2004	8TH AVE N	33	34	323.5	323.5
39	08/10/2004	7TH AVE N	35	36	310.0	228.9
40	08/10/2004	7TH AVE N	37	38	390.0	118.1
41	08/10/2004	7TH AVE N	37	39	177.9	18.1
42	08/10/2004	MONTE CRISTO	40	26	265.8	265.8
43	08/10/2004	MADONNA BLVD	40	29	367.1	367.1
44	08/10/2004	MADONNA BLVD	40	41	280.3	280.3
45	08/11/2004	MONTE CRISTO	42	40	390.0	281.7
46	08/11/2004	MONTE CRISTO	42	43	310.0	186.4
47	08/11/2004	MONTE CRISTO	43	42	310.0	122.2
48	08/11/2004	MONTE CRISTO	43	44	309.1	309.1
49	08/11/2004	MONTE CRISTO	40	42	309.1	29.8
50	08/11/2004	MONTE CRISTO	44	45	388.4	388.4
51	08/11/2004	4TH ST	44	38	314.4	314.4
52	08/11/2004	6TH ST	46	47	214.1	214.1
53	08/11/2004	6TH ST	46	19	214.1	47.7
54	08/11/2004	8TH AVE N	49	48	129.3	129.3
<b>5</b> 5	08/11/2004	8YH AVE N	49	50	129.3	90.8
56	08/12/2004	8TH AVE N	51	52	168.9	168.9
57	08/12/2004	8TH AVE N	51	50	176.0	97.0
58	08/12/2004	1ST ST W	55	56	392.3	392.3
59	08/12/2004	1ST ST W	57	56	393.3	393.3
60	08/16/2004	2ND ST W	60	61	339.7	339.7

Setup	Date	Road	Start M'hole	Finish M'hole	Scheduled Length	Surveyed length
<b>6</b> -1	08/16/2004	1ST & 2ND ST W	60	57	279.8	279.8
62	08/16/2004	2ND ST W	60	59	340.0	2.0
63	08/16/2004	2ND ST W	59	60	340.0	121.3
64	08/16/2004	1ST AVE N	62	61	100.3	100.3
65	08/16/2004	VACATED	62	63	250.0	242.4
66	08/16/2004	VACATED	63	62	250.0	8.8
67	08/16/2004	ALLEY	63	64	250.0	19.7
68	08/16/2004	4TH ST W	66	65	209.5	209.5
69	08/16/2004	3RD AVE N	66	67	319.4	319.4
70	08/16/2004	3RD AVE N	69	67	315.6	315.6
71	08/16/2004	3RD ST W	69	70	270.0	266.1
72	08/16/2004	3RD AVE N	69	72	226.2	226.2
73	08/16/2004	2ND AVE N	71	70	135.3	135.3
74	08/17/2004	3RD AVE N	78	77	91.1	91.1
75	08/17/2004	3RD AVE N	78	79	305.0	281.7
76	08/17/2004	3RD AVE N	80	79	361.6	361.6
77	08/17/2004	3RD AVE N	79	78	305.0	24.1
78	08/17/2004	3RD AVE N	80	81	203.5	203.5
79	08/17/2004	3RD AVE N	75	76	265.0	24.6
80	08/17/2004	3RD AVE N	75	74	339.0	133.9
81	08/17/2004	3RD AVE N	74	75	339.0	206.4
82	08/17/2004	3RD AVE N	74	73	342.0	342.0
83	08/17/2004	ALLEY	64	63	250.0	6.2
84	08/17/2004	3RD ST W	87	86	301.0	216.1
85	08/17/2004	1ST ST W	58	57	228.9	228.9
86	08/17/2004	2ND ST W	67	68	275.0	62.2
87	08/17/2004	2ND ST W	68	67	275.0	213.0
88	08/18/2004	3RD AVE N	73	72	229.2	229.2
89	08/18/2004	3RD ST W	86	87	301.0	161.4
90	08/18/2004	3RD AVE N	76	75	265.0	241.3
91	08/18/2004	7TH AVE N	53	54	62.0	62.0

Setup	Date	Road	Start M'hole	Finish M'hole	Scheduled Length	Surveyed length
92	06/18/2004	7TH AVE N	<b>5</b> 3	50	<b>129</b> .5	129.5
93	08/18/2004	8TH AVE N	50	51	176.0	79.3
94	08/18/2004	7TH AVE N	54	41	307.0	169.2
95	08/18/2004	7TH AVE N	41	54	307.0	138.5
96	08/18/2004	7TH AVE N	37	39	307.0	143.1
97	08/18/2004	7TH AVE N	39	37	307.0	159.8
98	08/18/2004	6TH ST	46	19	196.9	196.9
99	08/18/2004	MONTE CRISTO	45	19	330.0	233.5
100	08/19/2004	4TH ST	38	37	390.0	109.6
101	08/19/2004	7TH AVE N	38	35	362.9	362.9
102	08/19/2004	MONTE CRISTO	45	19	391.7	391.7
103	08/19/2004	MADONNA BLVD	83	73	145.9	145.9
104	08/19/2004	MADONNA BLVD	83	82	155.8	155.8
105	08/19/2004	MADONNA BLVD	84	82	154.3	154.3
106	08/19/2004	MADONNA BLVD.	85	90	139.9	139.9
107	08/19/2004	MADONNA BLVD	90	91	139.6	276.3
108	08/19/2004	MADONNA BLVD	90	91	139.6	139.6
109	08/19/2004	3RD ST W	86	85	139.6	28.6
110	08/20/2004	3RD AVE N	82	81	176.7	176.7
111	08/20/2004	1ST AVE N	61	91	152.7	152.7
112	08/20/2004	3RD ST W	86	85	45.0	45.0
113	08/20/2004	MADONNA BLVD	88	LS	169.5	169.5
114	08/20/2004	MADONNA BLVD	91	88	190.6	190.6

Total Scheduled Length Total length surveyed 29,075.8

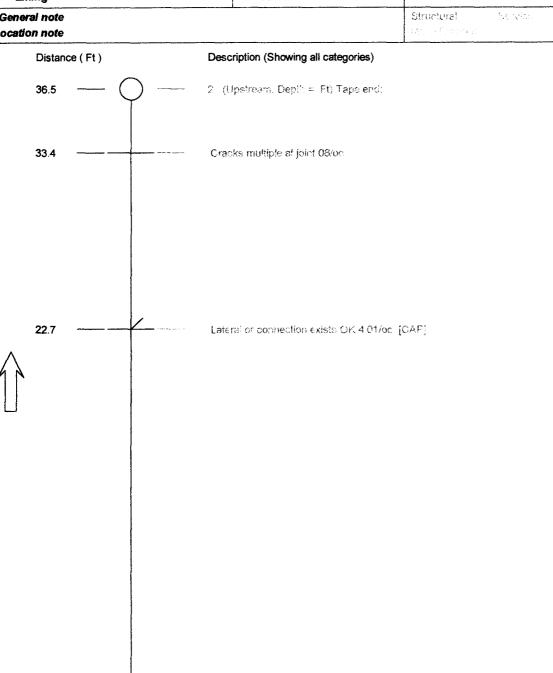
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#### for MID-COUNTY SERVICES, INC.

Media

Job C	Contract	Cas	ssette 1	Surveyed On 07/1	16/2004 Sheet 1	
Operator BMN	Van Reference	Weather	Dry			
Road Name 8TI	H AVE N	Place	e Name TIE	RRA VERDE		
Location type Ligh	nt road (rural roads with ligi	hter traffic,town & city	back streets	)		
Surface	,					
Survey purpose San	nple survey to determine as	sset condition				
Pipe Use Foul		Schedule length	36.5 <i>Ft</i>	From 1	Depti	h 5.60 Ft
Shape Circular		Size 8 by	ins	<b>To</b> 2	Depti	h Ft
<b>Material</b> Vitrified c	lay	Joint spacing	Ft	<b>Direction</b> Up		
Lining		Year laid	Cat A	Pre-clean Y	Last cleaned	
General note				Structura!	Salvina C	Natifical in



Water level 0%

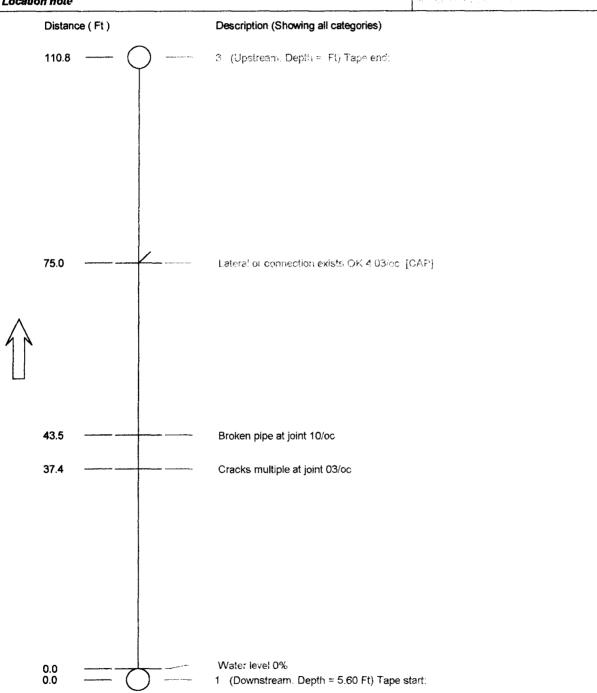
1 (Downstream, Depth = 5.60 Ft) Tape start:

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### for MID-COUNTY SERVICES, INC.

Media

Job C	ontract	Cas	sette 1	Surveyed On 07/16	5/2004 <b>Sheet</b> 2	
Operator BMN	Van Referenc∈	Weather	Dry			
Road Name 8TH	AVE N	Place	e Name TIE	RRA VERDE		
Location type Ligh	t road (rural roads with light	ter traffic,town & city l	back streets)			
Surface						
Survey purpose Sam	ple survey to determine as:	set condition				
Pipe Use Foul		Schedule length	110.8 <i>Ft</i>	From 1	Depth	5.60 <b>F</b> t
Shape Circular		Size 8 by	ins	<b>To</b> 3	Depth	Ft
Material Vitrified cl	ау	Joint spacing	Ft	<b>Direction</b> Up		
Lining		Year laid	Cat A	Pre-clean Y	Last cleaned	
General note				Structural	Stavica Ca	i shertalsi
Location note				Adviced series		

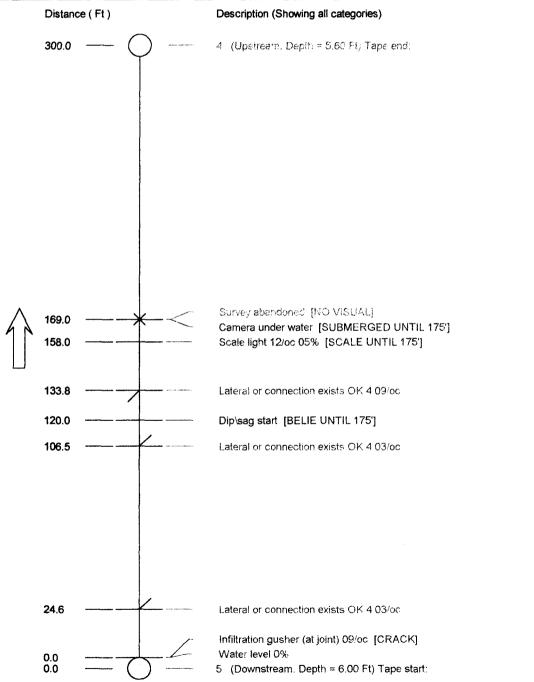


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#### for MID-COUNTY SERVICES, INC.

Media

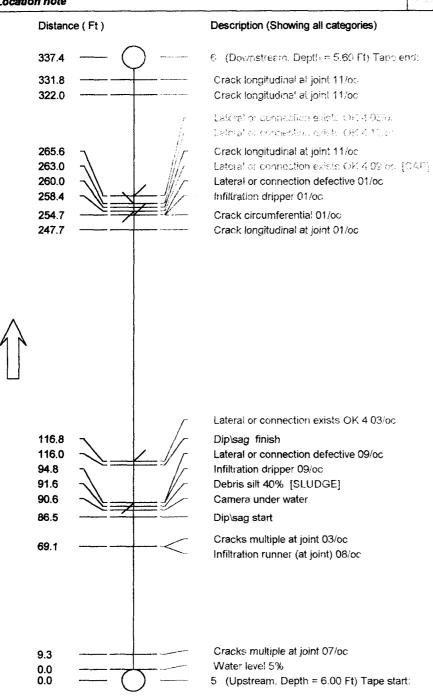
Job Co	ntract	Cas	sette 1	Surveyed On 07/	23/2004	Sheet 3	
Operator BMN	Van Reference	Weather	Dry				
Road Name 8TH	AVE N	Place	Name TIE	RRA VERDE			
Location type Light	road (rural roads with ligh	ter traffic,town & city t	back streets)				
Surface							
Survey purpose Samp	le survey to determine as	set condition					
Pipe Use Foul		Schedule length	300.0 Ft	From 5		Depth	6.00 Ft
Shape Circular		Size 8 by	ins	To 4		Depth	5.60 Ft
Material Vitrified clay	1	Joint spacing	Ft	<b>Direction</b> Up			
Lining		Year laid	Cat A	Pre-clean Y	Last o	deaned	
General note MH 4 BI	JRIED, NO ACCESS.			Structure!	Schrice	Çer	a Turkhar
Location note SEE SH	EET 10			Affectable for plan			



#### for MID-COUNTY SERVICES, INC.

Media

Job Co	entract	Cas	sette 1	Surveyed On 07/23/	2004 <b>Shee</b> t 4	
Operator BMN	Van Reference	Weather	Dry			
Road Name 8TH	AVE N	Place	e Name TIEF	RRA VERDE		
Location type Light	t road (rural roads with ligh	iter traffic,town & city t	back streets)			
Surface						
Survey purpose Sam	ple survey to determine as	set condition				
Pipe Use Foul		Schedule length	337.4 Ft	From 5	Depth	6.00 Ft
Shape Circular		Size 8 by	ins	<b>7o</b> 6	Depth	5.60 <b>F</b> t
Material Vitrified cla	ıy	Joint spacing	Ft	<b>Direction</b> Down		
Lining		Year laid	Cat A	Pre-clean Y	Last cleaned	
General note				Structurel 5	works Ost	stiustius.



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#### for MID-COUNTY SERVICES, INC.

Media

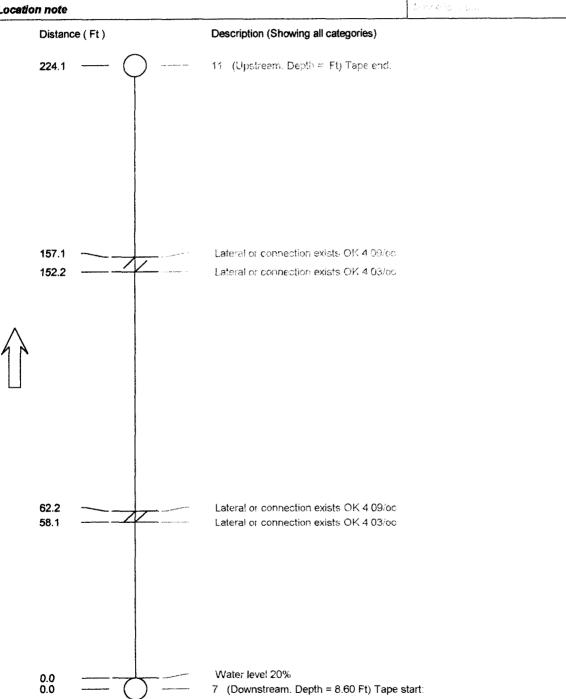
Job Contract		Cas	Cassette 1		3/2004 <b>Sh</b>	Sheet 5	
Operator BMN	Van Reference	Weather	Dry				
Road Name 8TI	AVE N	Place	e Name TIE	RRA VERDE			
Location type Ligh	it road (rural roads with ligi	hter traffic,town & city i	back streets	1			
Surface							
Survey purpose San	ple survey to determine as	sset condition					
Pipe Use Foul		Schedule length	337.4 Ft	From 7	i	Depth	8.60 <b>F</b> t
Shape Circular		Size 8 by	ins	<b>To</b> 6	Į.	Depth	5.60 <b>Ft</b>
Material Vitrified of	ay	Joint spacing	Fí	<b>Direction</b> Up			
Lining		Year laid	Cat A	Pre-clean Y	Last clea	ned	
General note SUBM	ERGED UNTIL 1.7' SEE S	HEET 14.		Structura'	Servion	Car	chick, as
	DEBRIS AT LATERAL 86			Salaran de Sue			

Distance (Ft) Description (Showing all categories) 6 (Upstream, Depth = 5.60 Ft) Taps end: Survey abandoned [HARD DEBRIS CAMERA INVERT] Lateral or connection defective 09/oc [DEBRIS] Camera under water Water level 60% 7 (Downstream. Depth = 8.60 Ft) Tape start:

#### for MID-COUNTY SERVICES, INC.

Media

Job C	Contract	Cas	sette 1	Surveyed On 07/2	3/2004 <b>Sheet</b>	6
Operator BMN	Van Reference	Weather	Dry			
Road Name SV	5TH CT.	Place	Name TIEF	RRA VERDE		
Location type Ligh	nt road (rural roads with ligi	hter traffic town & city I	back streets)			
Surface						
Survey purpose San	nple survey to determine a	sset condition				
Pipe Use Foul		Schedule length	224.1 <b>Ft</b>	From 7	Dej	pth 8.60 Ft
Shape Circular		Size 8 by	ins	<b>To</b> 11	<b>D</b> ej	pth Ft
<b>Material</b> Polyvinly	chloride	Joint spacing	Ft	<b>Direction</b> Up		
Lining		Year laid	Cat A	Pre-clean Y	Last cleaned	1
General note				Structural	Saraba	Cartha Car.
Location note				termetts a con-		



# for MID-COUNTY SERVICES, INC.

Job (	Contract	Cassett	e 1	Surveyed On 07/23/2004	Sheet 7
Operator BMN	Van Reference	<b>Weather</b> Dry			
Road Name SV	V 5TH CT.	Place Na	me TIER	RA VERDE	
Location type Lig	ht road (rural roads with ligh	iter traffic,town & city back	streets)		
Surface					
Survey purpose Sar	mple survey to determine as	set condition			
Pipe Use Foul		Schedule length 224	1.1 <i>Ft</i>	From 12	Depth 4.20 F
Shape Circular		Size 8 by	ins	To 11	Depth F
<b>Material</b> Polyvinly	chloride	Joint spacing	Ft	<b>Direction</b> Down	
		ł			
Lining		Year laid	Cat A	Pre-clean Y Las	t cleaned
•	SHEET 15	Year laid	Cat A	Pre-clean Y Las Structure' School	

Distance (Ft)

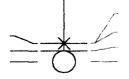
Description (Showing all categories)

Media

224 1

11 (Downstream, Depth = Ft) Tapo end:





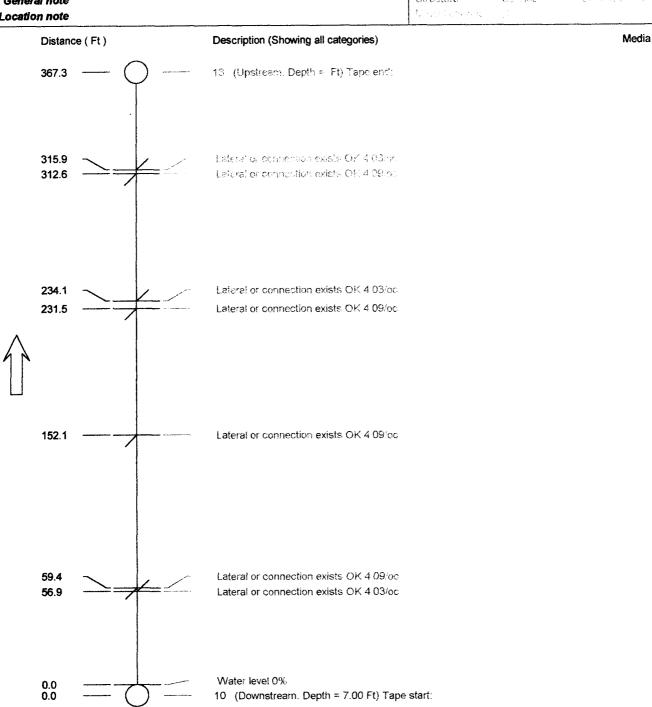
Survey abandoned

Debris (Not grease or silt) 30% [IMPASSABLE] Water level 0%

12 (Upstream. Depth = 4.20 Ft) Tape start:

#### for MID-COUNTY SERVICES, INC.

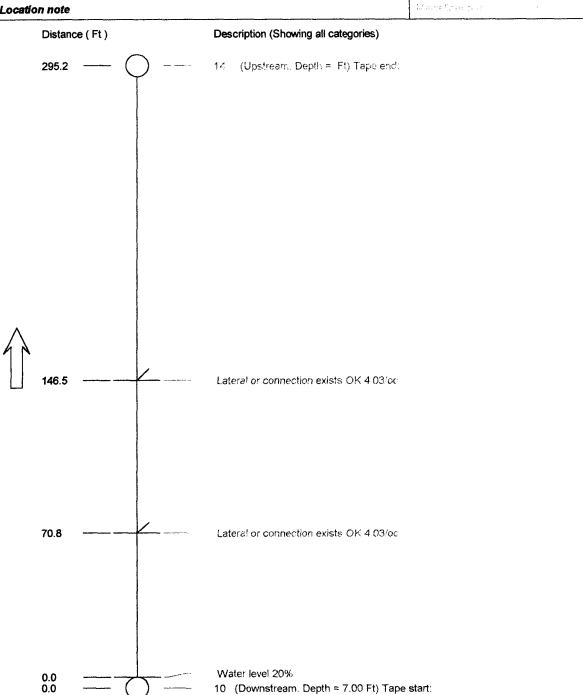
Job C	ontract	Cas	sette 1	Surveyed On 07/23	3/2004 <b>Shee</b>	£ 8
Operator BMN	Van Reference	Weather	Dry			
Road Name BA	RCELONA CT.	Place	Name TIE	RRA VERDE		
Location type Ligh	t road (rural roads with ligh	iter traffic,town & city t	back streets)			
Surface						
Survey purpose Sam	pie survey to determine as	set condition				
Pipe Use Foul		Schedule length	367.3 <b>F</b> t	From 10	De	epth 7.00 F
Shape Circular		Size 8 by	ins	<b>To</b> 13	De	epth F
Material Polyvinly	chloride	Joint spacing	Ft	<b>Direction</b> Up		
Lining		Year laid	Cat A	Pre-clean Y	Last cleane	d
General note				Structura!	Ephylos	Commission
Location note				Magazina a g	4	



### for MID-COUNTY SERVICES, INC.

Media

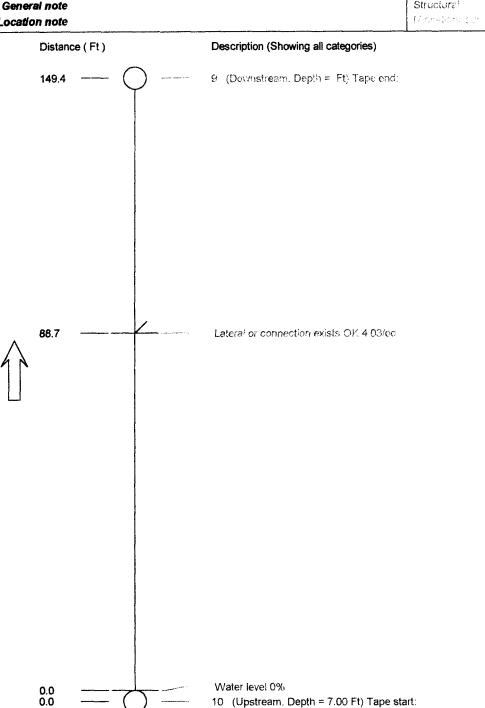
Pipe Graphic Re	eport of PLR 14	K for M	ID-COUNT	Y SERVICES, INC	% 	
Job	Contract	Cass	sette 1	Surveyed On 07/23/	2004 <b>Shee</b> t 9	
Operator BMN	Van Reference	Weather	Dry			
Road Name	8TH AVE N	Place	Name TIER	RA VERDE		
Location type	Light road (rura! roads with	lighter traffic,town & city b	ack streets)			
Surface	-	•				
Survey purpose	Sample survey to determine	e asset condition				
Pipe Use Foul		Schedule length	295.2 <b>Ft</b>	From 10	Depth	7.00 Ft
Shape Circu	ılar	Size 8 by	ins	To 14	Depth	Ft
<b>Material</b> Polys	vinly chloride	Joint spacing	Fl	<b>Direction</b> Up		
Lining .	·	Year laid	Cat A	Pre-clean Y	Last cleaned	
General note				Structura!	Service Cer	ai esteta
Location note				Milesce Screw over	•	



# for MID-COUNTY SERVICES, INC.

Media

Pipe Graphic Re	port of PLR 10 X	for MID	-COUNT	Y SERVICES, INC.	
Job	Contract	Casse	te 1	Surveyed On 07/23/2004	Sheet 10
Operator BMN	Van Reference	<b>Weather</b> Dr	/		
Road Name	8TH AVE N	Place N	me TIEF	RRA VERDE	
Surface	Light road (rural roads with Sample survey to determine		k streets)		
Pipe Use Foul		Schedule length 14	9.4 <i>Ft</i>	From 10	<b>Depth</b> 7.00 F
Shape Circu	lar	Size 8 by	ins	<b>To</b> 9	Depth F
<b>Material</b> Polyv	inly chloride	Joint spacing	Ft	<b>Direction</b> Down	
Lining		Year laid	Cat A	Pre-clean Y La	st cleaned
General note				Structura! Servi	of Geographic
Location note				Moreposition of the	

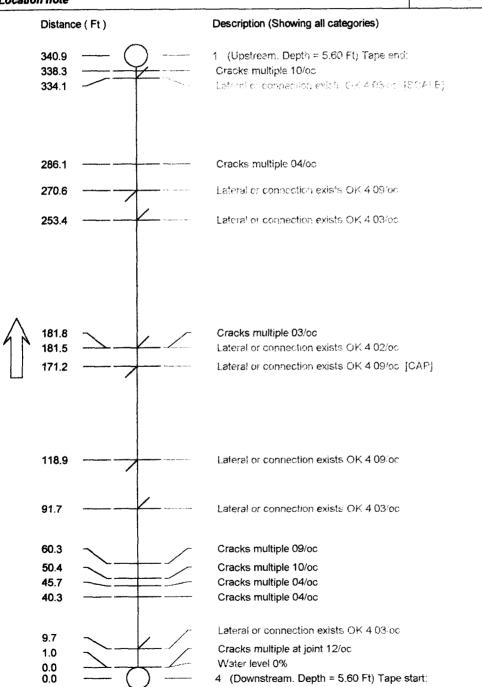


### for MID-COUNTY SERVICES, INC.

Media

Job (	Contract	Cas	sette 2	Surveyed On 07/3	0/2004	Sheet 11	
Operator BMN	Van Reference	Weather	Dry				
Road Name 8T	H AVE N	Place	Name TIEF	RRA VERDE			
Location type Lig	ht road (rural roads with ligh	hter traffic,town & city I	pack streets)				
Surface							
Survey purpose Sar	nple survey to determine a	sset condition					
Pipe Use Foul		Schedule length	340.9 Ft	From 4		Depth	5.60 F
Shape Circular		Size 8 by	ins	<b>To</b> 1		Depth	5.60 <b>F</b>
Material Vitrified o	lay	Joint spacing	Ft	<b>Direction</b> Up			
Lining	•	Year laid	Cat A	Pre-clean Y	Last c	eaned	
General note				Structura/	Service	$C_{\mathcal{A}}$	a hillighter
Location note				Muchines of the			

X



# for MID-COUNTY SERVICES, INC.

Job	Contract	Casset	te 2	Surveyed On 07/30/2004	Sheet 12
Operator BMN	Van Reference	Weather Dry	/		
Road Name	8TH AVE N	Place Na	me TIER	RA VERDE	
Location type	ight road (rural roads with ligh	nter traffic,town & city bac	k streets)		
Surface					
Survey purpose	Sample survey to determine as	sset condition			
Pipe Use Foul		Schedule length 34	0.9 <i>Ft</i>	From 4	Depth 5.60 Fr
Shape Circula	ir	Size 8 by	ins	<b>To</b> 5	Depth 6.00 Ft
Material Vitrifie	d clay	Joint spacing	Ft	<b>Direction</b> Down	
Material Alfillis		t .		1	
Lining		Year laid	Cat A	Pre-clean Y Las	t cleaned
Uning	E SHEET 13 FOR REVERSE		Cat A	Pre-clean Y Las Structure! Service	

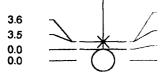
Distance (Ft)

Description (Showing all categories)

Media

**340.9** — 5 (Downstream, Depth = 6.00 Ft) Taps end:





Survey abandoned

Cracks multiple 12/oc [OFFSET/LARGE] Water level 0%

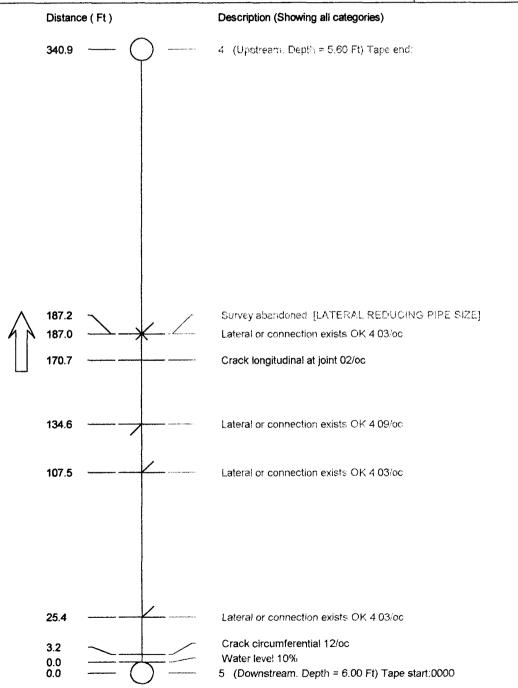
4 (Upstream. Depth = 5.60 Ft) Tape start:

#### for MID-COUNTY SERVICES, INC.

Media

Job Co	ontract	Cas	isette 2	Surveyed On 07/3	0/2004	Sheet 13	
Operator BMN	Van Reference	Weather	Dry				
Road Name 8TH	AVEN	Place	e Name TIE	RRA VERDE			
Surface	t road (rural roads with ligh ple survey to determine as		back streets)				
Pipe Use Foul		Schedule length	340.9 <i>Ft</i>	From 5		Depth	6.00 F
Shape Circular		Size 8 by	ins	To 4		Depth	5.60 F
<b>Material</b> Vitrified cla	зу	Joint spacing	Ft	<b>Direction</b> Up			
Lining		Year laid	Cat A	Pre-clean Y	Last c	leaned	
General note SEE SI	HEET 12 FOR REVERSE	SETUP		Structural	Service	€ 5.1	dhath i

Χ



# for MID-COUNTY SERVICES, INC.

Job (	Contract	Cas	ssette 2	Surveyed On	07/30/2004	Sheet 14	
Operator BMN	Van Reference	Weather	Dry				
Road Name 8T	H AVE N	Place	e Name TIE	RRA VERDE			
Location type Lig	ht road (rural roads with ligh	nter traffic,town & city I	back streets	)			
Surface							
Survey purpose Sa	mple survey to determine as	sset condition					
Pipe Use Foul		Schedule length	340.9 <i>Ft</i>	From 6		Depth	5.60 <b>Ft</b>
Shape Circular		Size 8 by	ins	<b>To</b> 7		Depth	8.60 <b>Ft</b>
<b>Material</b> Vitrified of	slay	Joint spacing	Ft	Direction	Down		
Lining		Year laid	Cat A	Pre-clean	Y Last	cleaned	
General note SEE	SHEET 5 FOR REVERSE S	ET UP		Structura!	Survice	Col	nstration
				Modelfores			

Tal note SEE SHEET 5 FOR REVERSE SET UP

On note 76.9' PIPE DIM REDUCED BY 4" LATERAL

Distance (Ft)

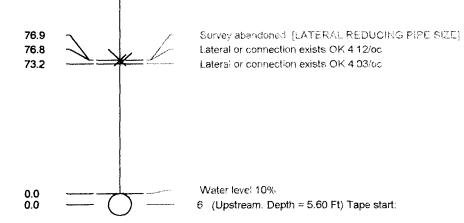
Description (Showing all categories)

Media

340.9

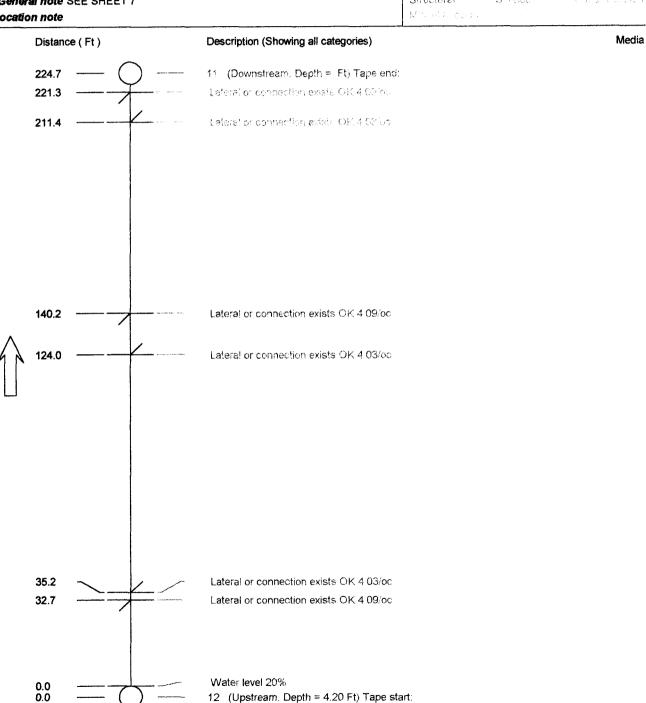
7 (Downstream, Depth = 8.60 Ft) Tape end:





#### for MID-COUNTY SERVICES, INC.

Job Co	ontract	Cas	sette 2	Surveyed On 07/	30/2004	<b>Sheet</b> 15	
Operator BMN	Van Reference	Weather	Dry				
Road Name SW	5TH CT.	Place	Name TIE	RRA VERDE			
Location type Light	t road (rural roads with ligi	hter traffic,town & city I	oack streets)				
Surface							
Survey purpose Sam	ple survey to determine a	sset condition					
Pipe Use Foul		Schedule length	224.7 Ft	From 12		Depth	4.20 Ft
Shape Circular		Size 8 by	ins	<i>T</i> o 11		Depth	Ft
<b>Material</b> Polyvinly o	hloride	Joint spacing	Ft	Direction Do	wn		
Lining		Year laid	Cat A	Pre-clean Y	Last	cleaned	
General note SEE SI	HEET 7			Structural	Shrelbe	£5.	s toluto
Location note				Mits eta los as			



### X

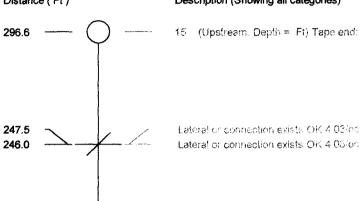
# for MID-COUNTY SERVICES, INC.

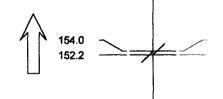
Job C	ontract	Cas	sette 2	Surveyed On 08/0	5/2004	Sheet 16	
Operator DWH	Van Reference	Weather	Dry				
Road Name MA	DRID CT.	Place	Name TIE	RRA VERDE			
Location type Ligh	t road (rural roads with ligi	nter traffic,town & city l	back streets)				
Surface							
Survey purpose San	ple survey to determine as	sset condition	-				
Pipe Use Foul		Schedule length	296.6 Ft	From 14		Depth	F
Shape Circular		Size 8 by	ins	<b>To</b> 15		Depth	Ft
<b>Material</b> Polyvinly	chloride	Joint spacing	Ft	<b>Direction</b> Up			
Lining		Year laid	Cat A	Pre-clean Y	Last d	eaned	
General note		- L		Structura!	Service	Chate	erster.
Location note				Minstelland and			

Distance (Ft)

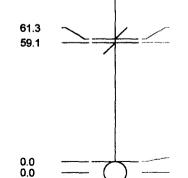
#### Description (Showing all categories)

Media





Lateral or connection exists OK 4 08/oc Lateral or connection exists OK 4 03/oc



Lateral or connection exists OK 4 03/oc Lateral or connection exists OK 4 08/oc

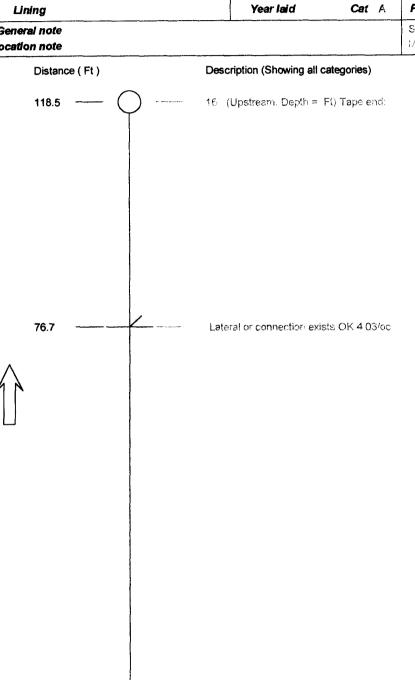
Water level 3%

14 (Downstream. Depth = Ft) Tape start:0000

## for MID-COUNTY SERVICES, INC.

Media

Job C	ontract	Cas	sette 2	Surveyed On 08/0	5/2004	Sheet 17	
Operator DWH	Van Reference	Weather	Weather Dry				
Road Name 8Th	HAVE N	Place	Name TIER	RA VERDE			
Location type Ligh	nt road (rural roads with ligh	nter traffic,town & city b	ack streets)				
Surface							
Survey purpose San	ple survey to determine as	sset condition					
Pipe Use Foul		Schedule length	118.5 <i>Ft</i>	From 14		Depth	Ft
Shape Circular		Size 8 by	ins	<b>To</b> 16		Depth	Ft
<b>Material</b> Polyvinly	chloride	Joint spacing	Ft	<b>Direction</b> Up			
Linina		Year laid	Cat A	Pre-clean Y	Last de	eaned	
unny							
General note		<u></u>		Structura)	Service	Const.	uchten



Water level 0%

14 (Downstream. Depth = Ft) Tape start:0000

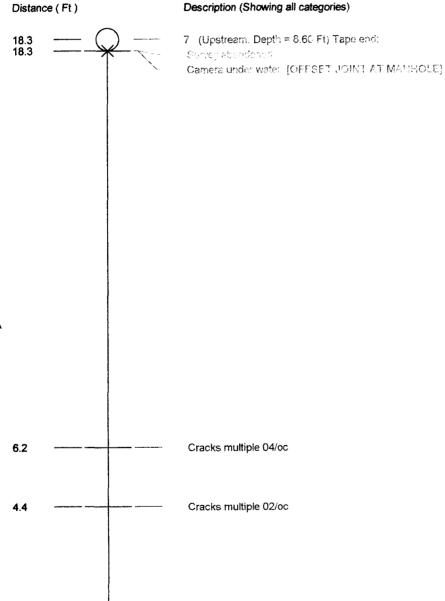
# for MID-COUNTY SERVICES, INC.

Job C	Contract	Cas	ssette 2	Surveyed On 08/	05/2004	Sheet 18	
Operator DWH	Van Reference	Weather	Weather Dry				
Road Name 8Th	H AVE N	Place	e Name Til	ERRA VERDE			
Location type Ligh	nt road (rural roads with ligh	nter traffic,town & city	back streets	s)			
Surface							
Survey purpose San	nple survey to determine as	sset condition					
Pipe Use Foul		Schedule length	18.3 <i>Ft</i>	From 8		Depth	8.60 Ft
Shape Circular		Size 8 by	ins	<b>To</b> 7		Depth	8.60 <b>F</b> t
Material Vitrified of	ay	Joint spacing	Ft	<b>Direction</b> Up			
Lining		Year laid	Cat /	A Pre-clean Y	Last c	leaned	
General note				Structura!	Scrvice	Çeri	situation.
				Mariadiarensa			

1.1

### Description (Showing all categories)

Media



Crack circumferential 12/oc

8 (Downstream. Depth = 8.60 Ft) Tape start:0000

Water level 4%

# for MID-COUNTY SERVICES, INC.

Media

Job C	ontract	Cas	sette 2	Surveyed On 08/05/200	)4 <b>Sheet</b> 19
Operator DWH	Van Reference	Weather	Dry		
Road Name 8TH	I AVE N	Place	Name TIEF	RRA VERDE	- <del></del>
Location type Ligh	t road (rural roads with ligi	hter traffic,town & city t	oack streets)		
Surface					
Survey purpose Sam	ple survey to determine as	sset condition			
Pipe Use Foul		Schedule length	115.7 <i>Ft</i>	From 8	Depth 8.60 Fi
Shape Circular		Size 8 by	ins	<b>To</b> 9	Depth Fi
Material Vitrified of	ау	Joint spacing	Ft	<b>Direction</b> Down	
Lining	•	Year laid	Cat A	Pre-clean Y L	ast cleaned
General note		. <u> </u>		Structural Sec	vice Genelariba
				Mark Manager 1 1	

Distance (Ft )

Description (Showing all categories)

9 (Downstream, Depth = Ft) Tape end:
Infiltration gusher (at joint) 10/oc
Infiltration light (at joint) 12/or

Lateral or connection exists OK 12/oc

7.4 6.5

53.6

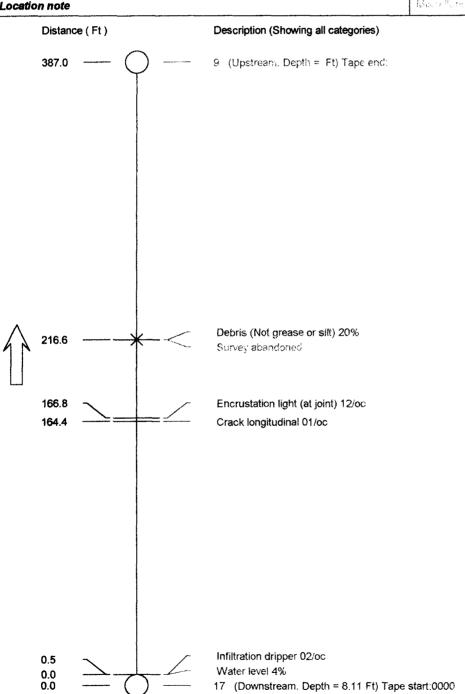
Crack longitudinal at joint 01/oc Lateral or connection exists OK 4 12/oc

Water level 2% 8 (Upstream. Depth = 8.60 Ft) Tape start:0000

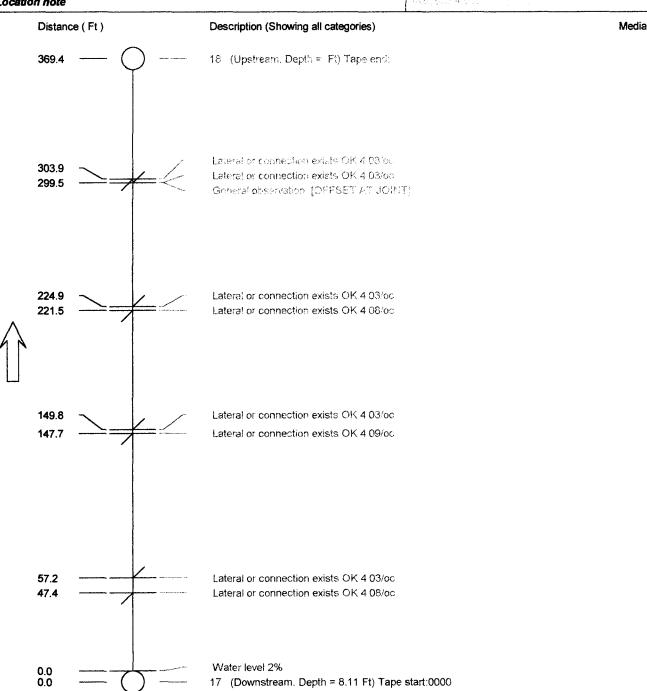
X

## for MID-COUNTY SERVICES, INC.

Job C	ontract	Cas	sette 3	Surveyed On 08/0	5/2004	Sheet 20	
Operator DWH	Van Reference	Weather	Dry				
Road Name 6Th	I ST.	Place	Name TIE	RRA VERDE			
Location type Ligh	nt road (rural roads with ligh	nter traffic,town & city I	pack streets)				
Surface							
Survey purpose Sam	ple survey to determine as	set condition					
Pipe Use Foul		Schedule length	387.0 <i>Ft</i>	From 17		Depth	8.11 <i>Ft</i>
Shape Circular		Size 8 by	ins	To 9		Depth	Ft
Material Vitrified of	ay	Joint spacing	Ft	<b>Direction</b> Up			
Lining		Year laid	Cat A	Pre-clean Y	Last de	aned	
General note SEE S	HEET 23 FOR REVERSE	SETUP		Structura!	Scivico	Cts	. Lacdage
Location note				Master Subjectives			



Job Co	ontract	Cas	sette 3	Surveyed On 08/09	5/2004	Sheet 21	
Operator DWH	Van Reference	Weather	Dry				
Road Name 7TH	AVE N	Place	e Name TIEI	RRA VERDE			
Surface	road (rura! roads with light ple survey to determine as	,	back streets)				
Pipe Use Foul		Schedule length		From 17	***************************************	Depth	8.11 <i>Ft</i>
Shape Circular		Size 8 by	ins	<b>To</b> 18		Depth	Ft
<b>Material</b> Polyvinly c	hloride	Joint spacing	Ft	<b>Direction</b> Up			
Uning		Year laid	Cat A	Pre-clean Y	Last de	aned	
General note			* * * * * * * * * * * * * * * * * * *	Structura!	Service	Cer	e (Kyan hiretag)
Location note				Macrofile a por			



### X

#### for MID-COUNTY SERVICES, INC.

Job Co	ntract	Cas	sette 3	Surveyed On C	8/05/2004	Sheet 22	
Operator DWH	Van Reference	Weather	Weather Dry				
Road Name 6TH	ST.	Place	e Name TIE	RRA VERDE			
Location type Light	road (rural roads with ligh	ter traffic,town & city I	back streets)	•			
Surface							
Survey purpose Samp	ole survey to determine as	set condition					
Pipe Use Foul		Schedule length	300.4 <i>Ft</i>	From 17		Depth	8.11 <i>Ft</i>
Shape Circular		Size 8 by	ins	<b>To</b> 19		Depth	Ft
Material Other (stat	e in comments)	Joint spacing	Ft	Direction [	Down		
Lining Other (stat	e in comments)	Year laid	Cat A	Pre-clean	/ Last	cleaned	
General note PIPE H	AS BEEN LINED.			Structural	Sarvico	Opr	s fructions
Location note				Attion fame on			

Distance (Ft)

Description (Showing all categories)

19 (Downstream, Depth = Ft) Tape end:

Media



9.0

Material of sewer changes [VC STARTS] Water level 4%

17 (Upstream, Depth = 8.11 Ft) Tape start:0000

# for MID-COUNTY SERVICES, INC.

Media

Pipe Graphic Repo	ort of PLR 9 X	for MID-C	TNUC	Y SERVICES, INC.	
Job	Contract	Cassette	3	Surveyed On 08/06/2004	Sheet 23
<b>Operator</b> DWH	Van Reference	<b>Weather</b> Dry			
Road Name 6	TH ST.	Place Nam	TIER	RA VERDE	
Location type Lig	ght road (rural roads with lig	hter traffic,town & city back s	reets)		
Surface					
<b>Survey purpose</b> Sa	mple survey to determine a	sset condition			
Pipe Use Foul		Schedule length 387.0	Ft	From 9	Depth Ft
Shape Circular		Size 8 by in	S	<b>To</b> 17	Depth 8.11 Ft
<b>Material</b> Vitrified	olay	Joint spacing Ft		<b>Direction</b> Down	
Lining	•	Year laid C	at A	Pre-clean Y Last	deaned
General note SEE	SHEET 20 FOR REVERSE	SETUP		Structura! Service	. Constructions
Location note				Miner Pares Stevens 1, 1	

Distance (Ft) Description (Showing all categories) 17 (Downstream, Depth = 8.11 Ft) Tape end: Debris (Not grease or silt) 20% 171.2 Survey abandoned [IMPASSABLE] Encrustation heavy (at joint) 12/oc 20% 32.8 Infiltration seeper 08/oc Water level 5% 9 (Upstream. Depth = Ft) Tape start:

### for MID-COUNTY SERVICES, INC.

Media

Job C	ontract	Cas	sette 3	Surveyed On 08/06/200	4 Sheet 24
<i>Operator</i> DWH	Van Reference	Weather	Dry		
Road Name 8Th	AVE N	Place	Name TIE	RRA VERDE	
Location type Ligh	t road (rural roads with ligh	nter traffic,town & city t	oack streets)	)	
Surface					
Survey purpose Sam	ple survey to determine as	set condition			
Pipe Use Foul		Schedule length	96.2 Ft	From 20	Depth 8.11 Ft
Shape Circular		Size 8 by	ins	To 21	Depth Ft
Material Vitrified cl	ay	Joint spacing	Fŧ	<b>Direction</b> Down	•
Lining		Year laid	Cat A	Pre-clean Y L	ast cleaned
General note			· · · · · · · · · · · · · · · · · · ·	Structure! Serv	zice Genstadikas
Location note				Misochemanus et.	

Distance (Ft )

Description (Showing all categories)

21 (Downstream. Depth = Ft) Tape end:

Crack longitudinal at joint 03/co
Roots fine (at joint)



5.2 1.0 0.0 0.0

Cracks multiple at joint 03/oc Cracks multiple at joint 08/oc Water level 0%

20 (Upstream. Depth = 8.11 Ft) Tape start:

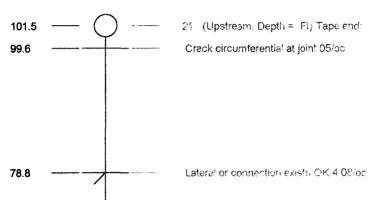
# for MID-COUNTY SERVICES, INC.

Pipe Graphic Rep	ort of PLR 21 X	for MID-0	TNUO	Y SERVICES, IN	C.	
Job	Contract	Cassette	3	Surveyed On 08/06	5/2004 <b>Shee</b>	at 25
Operator DWH	Van Reference	Weather Dry				
Road Name 8	TH AVE N	Place Nan	e TIER	RA VERDE	·	
Location type L	ight road (rural roads with	ighter traffic,town & city back :	streets)			
Surface						
Survey purpose S	ample survey to determine	asset condition				
Pipe Use Foul		Schedule length 101.	5 <i>Ft</i>	From 22	De	epth Ft
Shape Circular	r	Size 8 by in	าร	<b>To</b> 21	De	epth Ft
<b>Material</b> Vitrified	clay	Joint spacing F	t	<b>Direction</b> Up		
Lining	,	Year laid (	Cat A	Pre-clean Y	Last cleane	ıd
General note	and the second s			Structural	Service	Combine Gr
Location note				Mil to parkers		

Distance (Ft)

### Description (Showing all categories)

Media





Crack circumferential 12/oc

Water level 2%

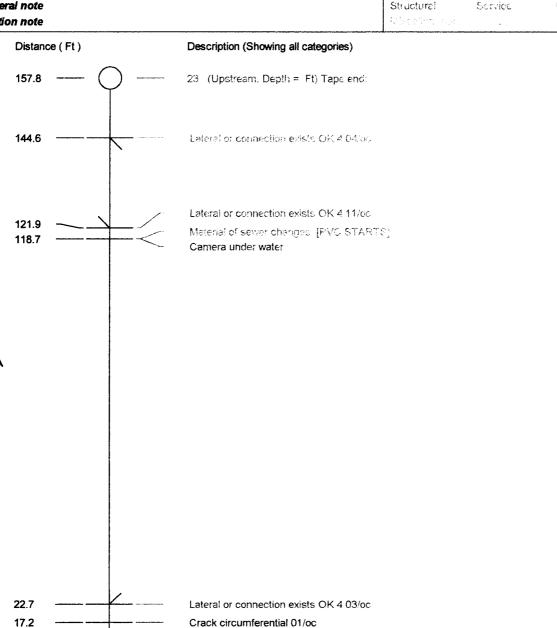
22 (Downstream. Depth = Ft) Tape start:

X

### for MID-COUNTY SERVICES, INC.

Media

Job C	ontract	Cas	sette 4	Surveyed On 08/00	5/2004 <b>S</b>	heet 26	
<i>Operator</i> DWH	Van Reference	Weather	Dry				
Road Name 8Th	AVE N	Place	e Name TIEF	RRA VERDE			
Location type Ligh	t road (rural roads with ligi	nter traffic,town & city I	back streets)				
Surface							
Survey purpose Sam	ple survey to determine as	set condition					
Pipe Use Foul		Schedule length	157.8 <i>Ft</i>	From 22	•	Depth	Ft
Shape Circular		Size 8 by	ins	To 23		Depth	Ft
Material Vitrified cla	ay	Joint spacing	Ft	<b>Direction</b> Up		-	
Lining		Year laid	Cat A	Pre-clean Y	Last cle	aned	
General note	the second secon			Structural	Service	Const	Horizon.
Location note				Makasina kua			



Roots fine 03/oc

Water level 2%

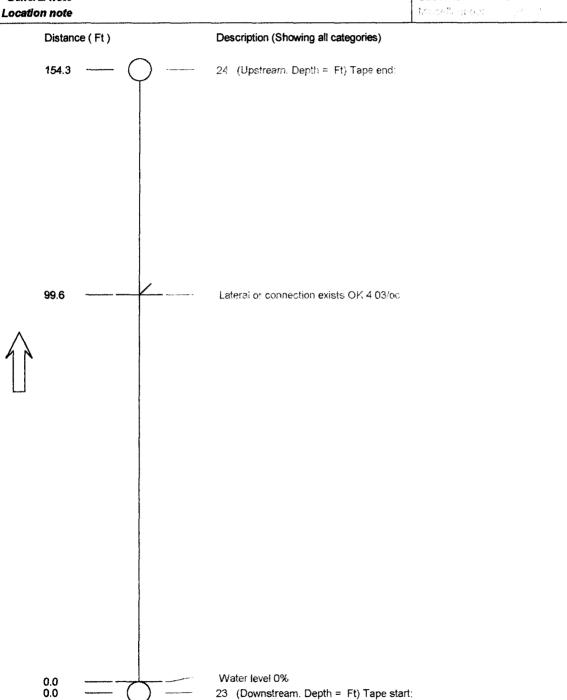
0.1

Crack circumferential 12/oc

22 (Downstream. Depth = Ft) Tape start:0000

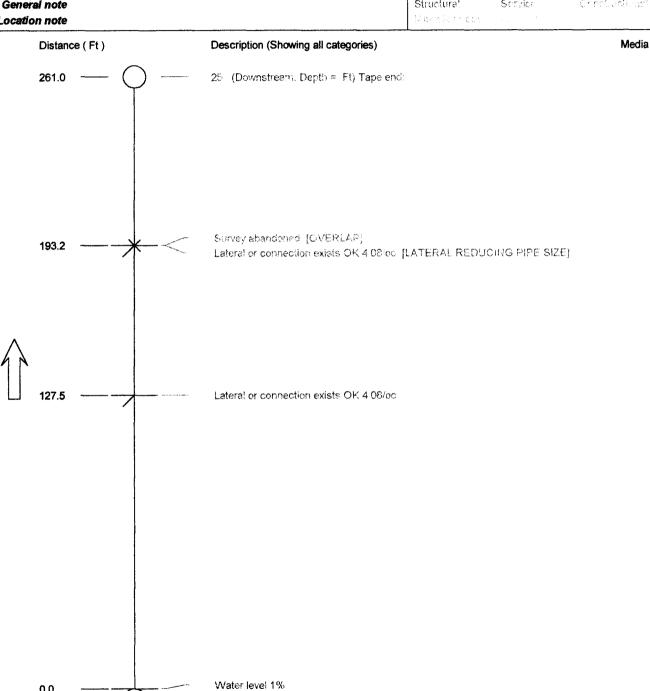
# for MID-COUNTY SERVICES, INC.

Job C	ontract	Cas	ssette 4	Surveyed On 08/0	6/2004	Sheet 27	
Operator DWH	Van Reference	Weather	Dry				
Road Name 8TH	AVE N	Plac	e Name TIEF	RRA VERDE			
Surface	it road (rural roads with light	•	back streets)				
Pipe Use Foul Shape Circular		Schedule length Size 8 by	154.3 Ft ins	From 23		Depth	Ft Ft
Material Polyvinly	chloride	Joint spacing	Ft .	To 24  Direction Up		Depth	r
Lining		Year laid	Cat A	Pre-clean Y	Last de	aned	
General note				Structura!	Service	Const	redicts
Location note				Maidelly agrows			



## for MID-COUNTY SERVICES, INC.

Job C	ontract	Cas	sette 4	Surveyed On	08/06/2004	Sheet 28	
Operator DWH	Van Reference	Weather	Dry				
Road Name MO	NTE CRISTO	Place	e Name TIE	RRA VERDE			
Location type Ligh	t road (rural roads with ligh	hter traffic,town & city !	back streets)				
Surface							
Survey purpose Sam	ple survey to determine as	sset condition					
<b>Pipe Use</b> Foul		Schedule length	261.0 <i>Ft</i>	From 22		Depth	Ft
Shape Circular		Size 8 by	ins	<b>To</b> 25		Depth	Ft
Material Vitrified cl	ау	Joint spacing	Ft	Direction	Down		
Lining		Year laid	Cat A	Pre-clean	Y Last	cleaned	
General note				Structura!	Service	(nrd	. Jostinia
Location note				Mayor School			

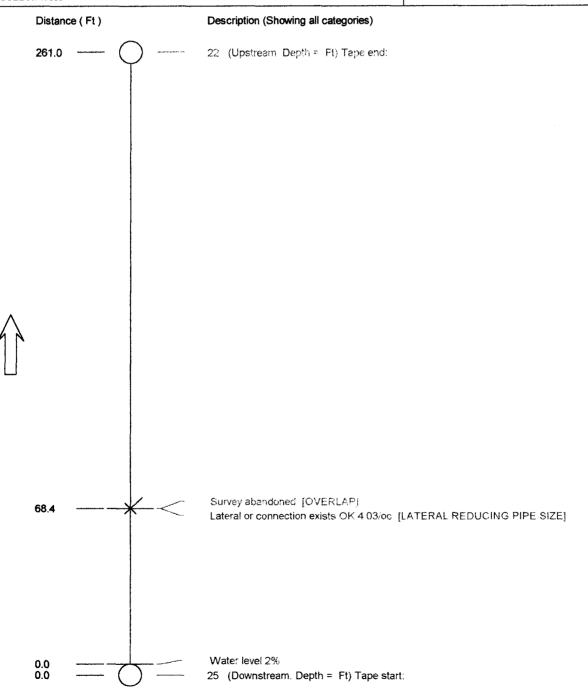


22 (Upstream. Depth = Ft) Tape start:

X

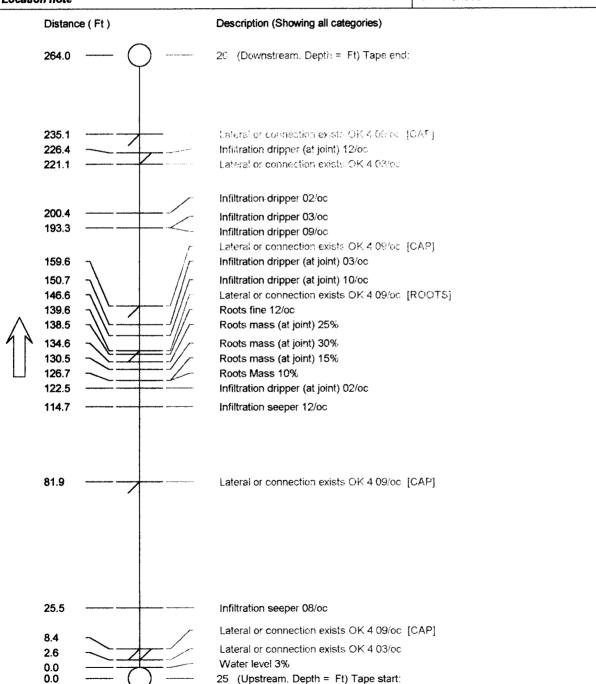
### for MID-COUNTY SERVICES, INC.

Job C	ontract	Cas	sette 4	Surveyed On 08/0	6/2004 <b>Sh</b>	<b>ee</b> t 29	
Operator DWH	Van Reference	Weather	Dry				
Road Name MC	NTE CRISTO	Place	e Name TIE	RRA VERDE			
<b>Location type</b> Ligh	nt road (rural roads with ligh	nter traffic,town & city	back streets)				
Surface							
Survey purpose Sam	ple survey to determine as	sset condition					
Pipe Use Foul		Schedule length	261.0 <i>Ft</i>	From 25		Depth	Ft
Shape Circular		Size 8 by	ins	To 22		Depth	Ft
Material Vitrified cl	ay	Joint spacing	Ft	<b>Direction</b> Up			
Lining		Year laid	Cat A	Pre-clean Y	Last clea	ned	
General note SHEE	SHEET 28 FOR REVERS	E SETUP		Structura!	Service	Consti	er.jeme
Location note				Macallane cas	4 (3)		



### for MID-COUNTY SERVICES, INC.

Pipe Graphic Rep	ort of PLR 25 X	for MiD	-COUN	TY SERVICES, INC	•	
Job	Contract	Casse	te 4	Surveyed On 08/06/2	2004 <b>Sheet</b> 30	
Operator DWH	Van Reference	<b>Weather</b> Dr	/			
Road Name	MONTE CRISTO	Place N	me TIE	RRA VERDE		
Location type L	ight road (rural roads with I	lighter traffic,town & city bac	k <b>s</b> treets)			
Surface						
<b>Survey purpose</b> S	ample survey to determine	asset condition				
Pipe Use Foul		Schedule length 26	4.0 <i>Ft</i>	From 25	Depth	Ft
Shape Circula	r	Size 8 by	ins	<b>To</b> 26	Depth	Ft
Material Vitrified	l clay	Joint spacing	Ft	<b>Direction</b> Down		
Lining	•	Year laid	Cat A	Pre-clean Y	Last cleaned	
General note				Structural S	ervice Cor	ette (vest i solar
Location note				formachermour i		



### for MID-COUNTY SERVICES, INC.

Media

Job C	ontract	Cas	sette 4	Surveyed On 08/0	6/2004	Sheet 31	
Operator DWH	Van Reference	Weather	Dry				
Road Name 8Th	1 AVE N	Place	Name TIE	RA VERDE			
Location type Ligh	t road (rural roads with ligi	nter traffic,town & city b	oack streets	)			
Surface							
Survey purpose Sam	ple survey to determine as	sset condition					
<b>Pipe Use</b> Foul		Schedule length	201.0 <i>Ft</i>	From 27		Depth	4.50 <i>Ft</i>
Shape Circular		Size 8 by	ins	<b>To</b> 28		Depth	4.50 <b>F</b> t
Material Vitrified cl	ay	Joint spacing	Fl	<b>Direction</b> Up			
Lining		Year laid	Cat A	Pre-clean Y	Last cle	aned	
General note SEE S	HEET 33 FOR REVERSE	SET UP		Structural	Service	Col	cituo(nana
				Mass Cannon			

Distance ( Ft )

Description (Showing all categories)

201.0

28 (Upstream, Depth = 4.50 Ft) Tape end:



0.0 0.0 Survey abandoned

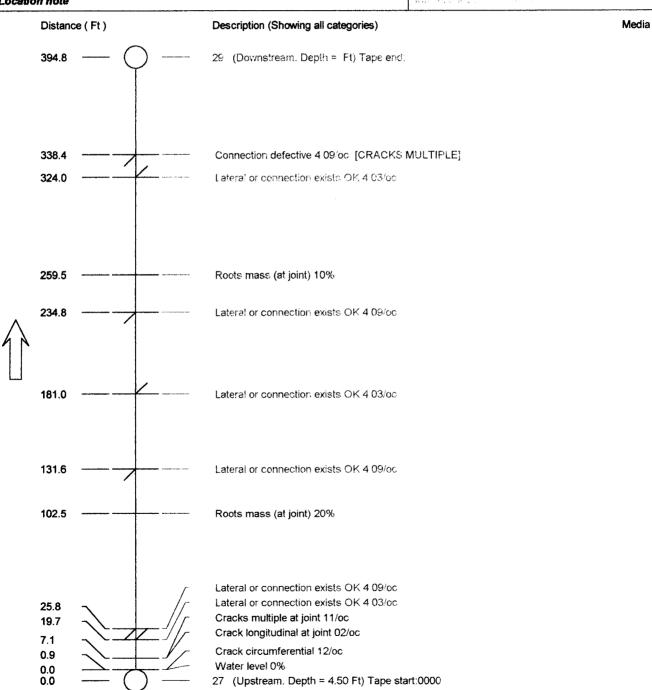
Cracks multiple 03/oc [OVERLAP IMPASSABLE]

Crack longitudinal at joint 12/oc

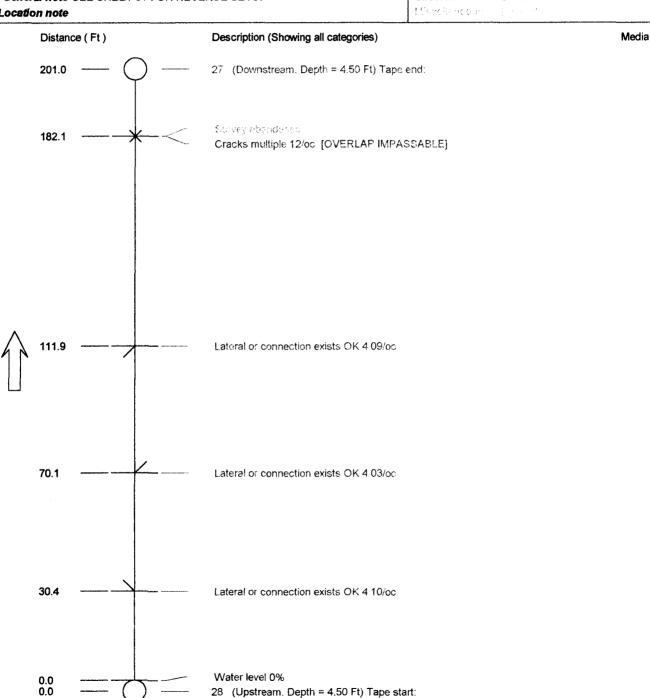
Water level 1%

27 (Downstream. Depth = 4.50 Ft) Tape start:

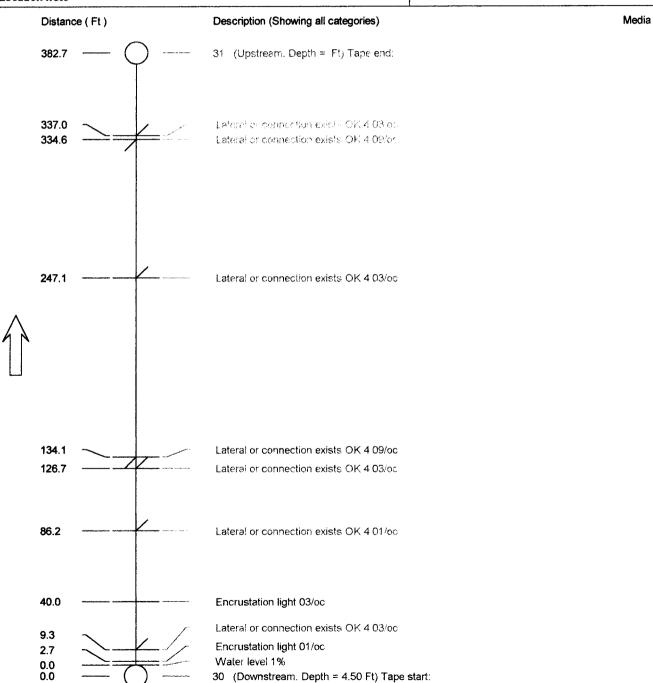
Job C	ontract	Cas	sette 4	Surveyed On 08/0	6/2004	Sheet 32	
Operator DWH	Van Reference	Weather	Dry				
Road Name 8Th	I AVE N	Place	e Name TIEF	RRA VERDE			
• • • •	t road (rural roads with ligi	hter traffic,town & city	back streets)				
Surface Survey purpose Sam	ple survey to determine as	sset condition					
Pipe Use Foul		Schedule length	394.8 <i>Ft</i>	From 27		Depth	4.50 <i>Ft</i>
Shape Circular		Size 8 by	ins	<b>To</b> 29		Depth	Ft
Material Vitrified cl	ay	Joint spacing	Ft	<b>Direction</b> Dov	vn		
Lining		Year laid	Cat A	Pre-clean Y	Last	cleaned	
General note				Structural	Service	Cor	r haritons
Location note				Miscellane ser			



Job C	Contract	Cas	sette 5	Surveyed On 08	/09/2004	Sheet 33	
Operator DWH	Van Reference	Weather	Dry				
Road Name 8T	HAVE N	Place	e Name TIE	RA VERDE			
Location type Ligh	nt road (rural roads with ligh	nter traffic,town & city	back streets	)			
Surface							
Survey purpose San	nple survey to determine as	sset condition					
Pipe Use Foul		Schedule length	201.0 <i>Ft</i>	From 28		Depth	4.50 Ft
Shape Circular		Size 8 by	ins	<b>To</b> 27		Depth	4.50 Ft
Material Vitrified c	ay	Joint spacing	Ft	<b>Direction</b> Do	wn		
Lining		Year laid	Cat A	Pre-clean Y	Last	cleaned	
General note SEE S	HEET 31 FOR REVERSE	SETUP	· · · · · · · · · · · · · · · · · · ·	Structura!	Service	Cor	an rolling
Location note				Misselpineauri		,	

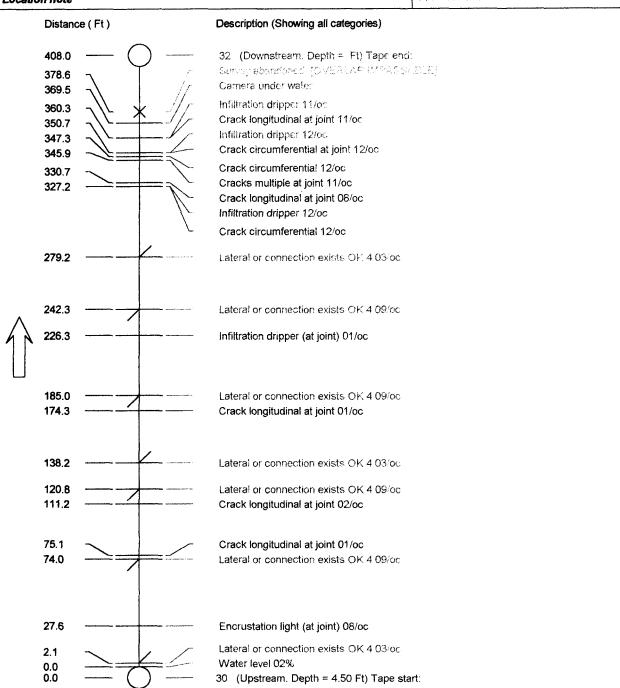


Job C	ontract	Cas	sette 5	Surveyed On 08/0	9/2004	Sheet 34	
Operator DWH	Van Reference	Weather	Dry				
Road Name 8TH	AVE N	Place	e Name TIEF	RRA VERDE			
Surface	t road (rural roads with ligh ple survey to determine as		back streets)				
Pipe Use Foul Shape Circular		Schedule length Size 8 by	382.7 Ft ins	From 30 To 31		Depth Depth	4.50 Ft Ft
Material Vitrified cla	ау	Joint spacing	Ft	<b>Direction</b> Up			
Lining		Year laid	Cat A	Pre-clean Y	Last	cleaned	
General note				Structura!	Service	Çer	ie Inur Granie
Location note				Misselbaron.			

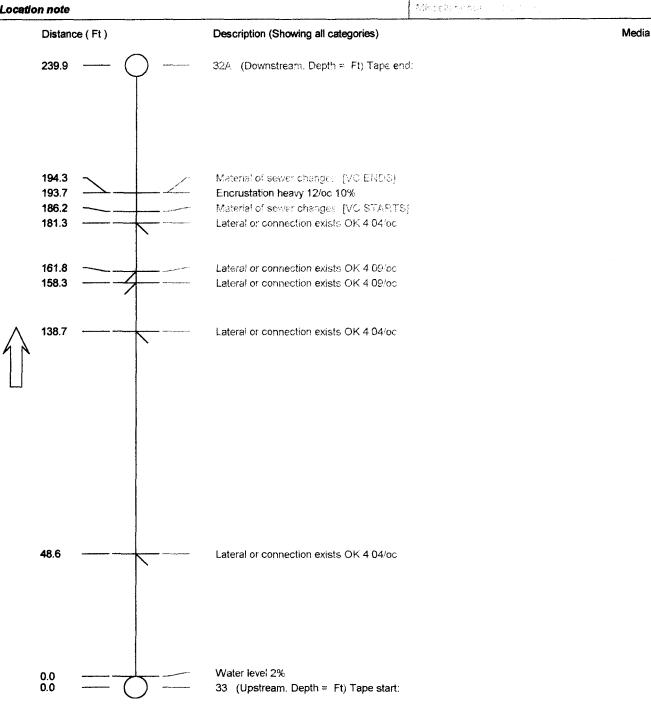


### for MID-COUNTY SERVICES, INC.

Job C	ontract	Cas	sette 5	Surveyed On C	8/09/2004	Sheet 35	
Operator DWH	Van Reference	Weather	Dry				
Road Name 8Th	AVE N	Place	e Name TIE	RRA VERDE			
Location type Ligh	t road (rura! roads with ligh	iter traffic,town & city I	back streets	)			
Surface	•	•					
Survey purpose Sam	ple survey to determine as	set condition					
Pipe Use Foul		Schedule length	408.0 Ft	From 30		Depth	4.50 Ft
Shape Circular		Size 8 by	ins	<b>To</b> 32		Depth	Ft
Material Vitrified cl	ay	Joint spacing	Ft	Direction [	Down		
Lining	•	Year laid	Cat A	Pre-clean	( Last	cleaned	
General note SEE S	HEET 37 FOR REVERSE	SETUP		Structura!	Scerion	Ç.C.	greetiens
Location note				Modefree			



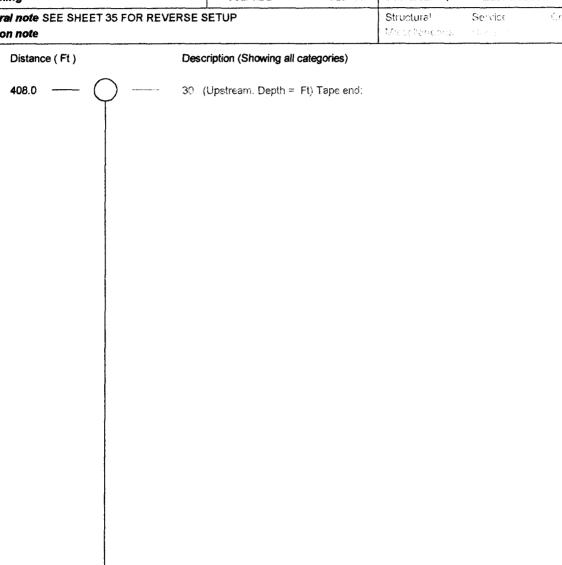
Job C	ontract	Cass	ette 5	Surveyed On 08/0	9/2004 <b>S</b>	heet 36	
Operator DWH	Van Reference	Weather (	Ory				
Road Name 8TH	I AVE N	Place	Name TIEF	RRA VERDE			
Location type Ligh	t road (rural roads with ligh	nter traffic,town & city ba	ack streets)				
Surface							
Survey purpose Sam	ple survey to determine as	set condition			- TW		
Pipe Use Foul		Schedule length	239.9 <i>Ft</i>	From 33		Depth	Ft
Shape Circular		Size by	ins	To 32A		Depth	Ft
<b>Material</b> Polyvinly o	chloride	Joint spacing	Ft	<b>Direction</b> Dov	vn		
		Very total	Cat A	Pre-clean Y	Last cle	aned	
Lining		Year laid	Car A	Fie-Geall 1	Eust of c	WITO CI	
Lining General note		Year laid	Cal A	Structura!	Service	Cunta	safe. tr

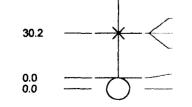


### for MID-COUNTY SERVICES, INC.

Media

Job C	ontract	Cass	sette 5	Surveyed On 08/1	0/2004 <b>Sheet</b> 3	7
Operator DWH	Van Reference	Weather !	Dry			
Road Name 8Th	AVE N	Place	Name TIEF	RRA VERDE		
Location type Ligh	t road (rural roads with ligh	nter traffic,town & city b	ack streets)			
Surface						
Survey purpose Sam	ple survey to determine as	set condition				
Pipe Use Foul		Schedule length	408.0 <i>Ft</i>	From 32	Depth	Ft
Shape Circular		Size by	ins	<b>To</b> 30	Depth	F
		Inint opening	Ft	Direction Up		
Material Vitrified cl	ay	Joint spacing				
Material Vitrified of Lining	ау	Year laid	Cat A	Pre-clean Y	Last cleaned	
Lining	HEET 35 FOR REVERSE	Year laid		· '		onchathan



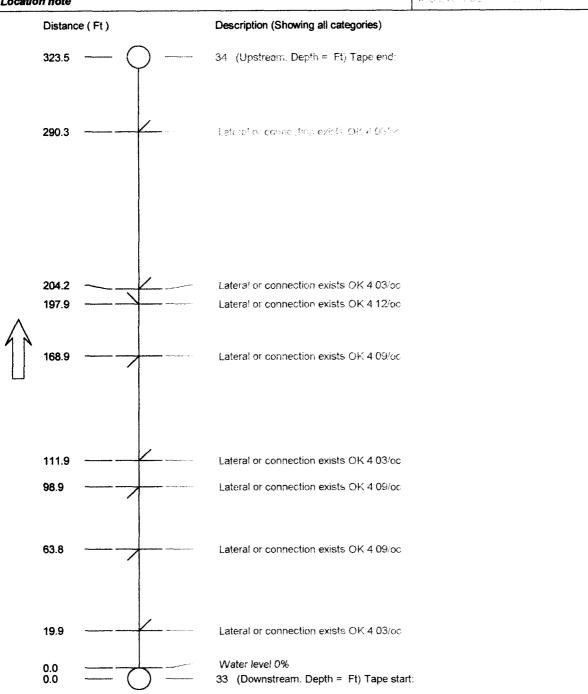


Infiltration dripper (at joint) 09/oc Survey abandoned Encrustation heavy (at joint) 09/oc 10%

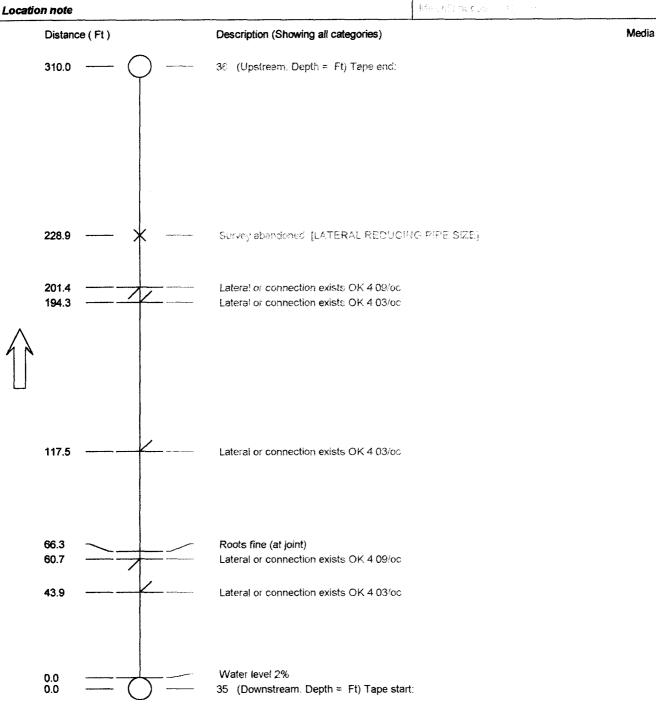
Water level 40% 32 (Downstream. Depth = Ft) Tape start:

## for MID-COUNTY SERVICES, INC.

Job Co	ntract	Cas	sette 5	Surveyed On 08/1	0/2004	Sheet 38	
Operator DWH	Van Reference	Weather	Dry				
Road Name 8TH	AVE N	Place	e Name TIEF	RRA VERDE			
Location type Light Surface	road (rural roads with ligh	ter traffic,town & city t	back streets)				
Survey purpose Samp	ole survey to determine as	set condition	. <del></del>				
Pipe Use Foul		Schedule length	323.5 <i>Ft</i>	From 33		Depth	Ft
Shape Circular		Size by	ins	<b>To</b> 34		Depth	Ft
<b>Material</b> Polyvinly ci	hloride	Joint spacing	Ft	<b>Direction</b> Up			
Lining		Year laid	Cat A	Pre-clean Y	Last c	deaned	
General note		<u> </u>		Structural	San les	Qche/	audimena'
Location note				Missiphere our	100		

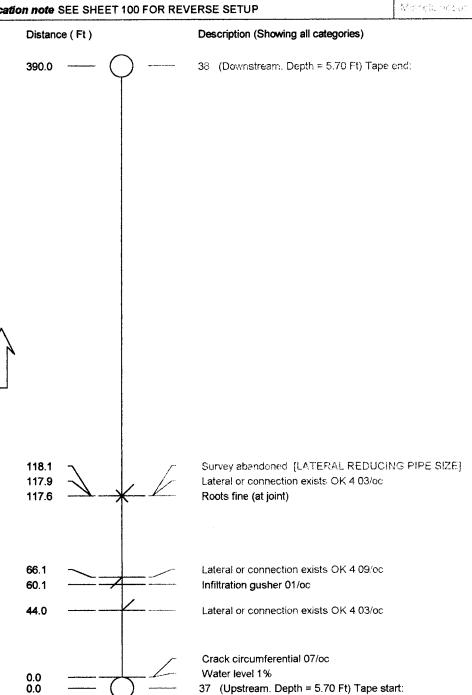


Job C	ontract	Cas	sette 5	Surveyed On 08/1	0/2004	Sheet 39	
Operator DWH	Van Reference	Weather	Dry				
Road Name 7TH	I AVE N	Place	e Name TIEI	RRA VERDE			
Surface	t road (rural roads with ligh ple survey to determine as		back streets)				
Pipe Use Foul Shape Circular		Schedule length Size 8 by	310.0 <i>Ft ins</i>	From 35 To 36		Depth Depth	Ft Ft
<b>Material</b> Vitrified cla	ay .	Joint spacing	Pt	<b>Direction</b> Up			
Lining		Year laid	Cat A	Pre-clean Y	Last cle	eaned	
General note				Structura!	Service ej	Const	- or Pota



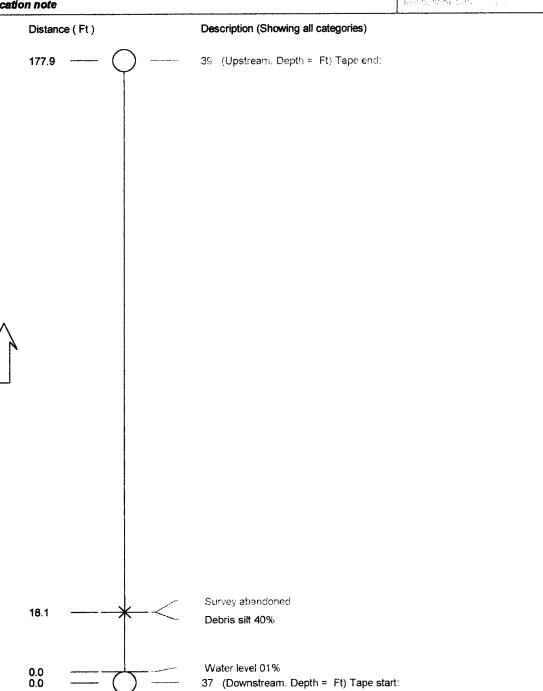
### for MID-COUNTY SERVICES, INC.

Job C	ontract	Cas	sette 6	Surveyed On	08/10/2004	Sheet 40	
Operator DWH	Van Reference	Weather	Dry				
Road Name 7Th	AVE N	Place	Name TIE	RRA VERDE			
Location type Ligh	t road (rural roads with ligh	nter traffic,town & city I	oack streets)	<b>+</b>			
Surface							
Survey purpose Sam	ple survey to determine as	sset condition					
Pipe Use Foul		Schedule length	390.0 <i>Ft</i>	From 37		Depth	5.70 <i>Ft</i>
Shape Circular		Size 8 by	ins	<b>To</b> 38		Depth	5.70 <b>Ft</b>
Material Vitrified cl	ау	Joint spacing	Ft	Direction	Down		
Lining		Year laid	Cat A	Pre-clean	Y <b>Las</b> t	deaned	
General note STAR	OF TAPE 6			Structural	Service	Co	nstructiona
Location note SEE S				1	35 × 1,777		

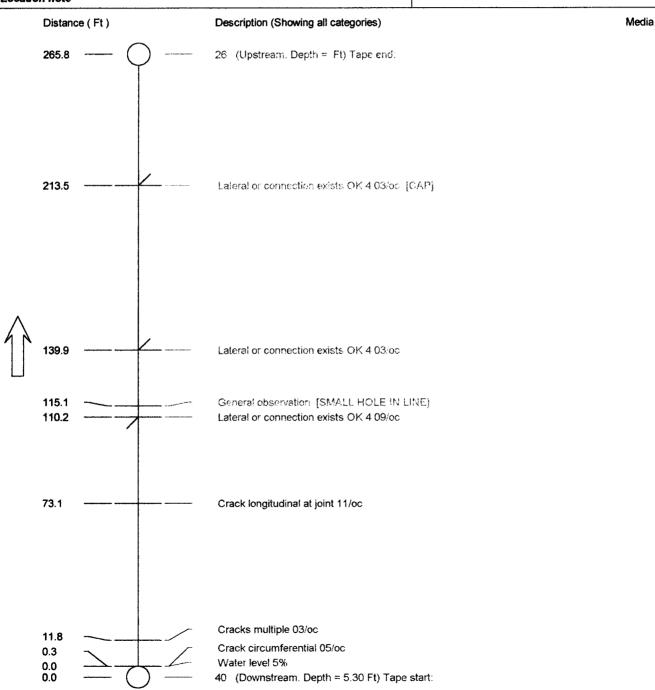


# for MID-COUNTY SERVICES, INC.

Job C	ontract	Cas	sette 6	Surveyed On 08/10	0/2004	Sheet 41	
Operator DWH	Van Reference	Weather	Dry				
Road Name 7Th	I AVE N	Place	Name TIEF	RRA VERDE		,	
Location type Ligh	t road (rural roads with ligh	hter traffic,town 8 city l	back streets)				
Surface							
Survey purpose Sam	ple survey to determine as	sset condition					
Pipe Use Foul		Schedule length	177.9 <i>Ft</i>	From 37		Depth	Ft
Shape Circular		Size 8 by	ins	<b>To</b> 39		Depth	Ft
Material Polyvinly	chloride	Joint spacing	Ft	<b>Direction</b> Up			
Lining		Year laid	Cat A	Pre-clean Y	Last d	eaned	
General note SEE S	HEET 97 FOR REVERSE	SETUP	***************************************	Structural	Service	Const	ractions:
Location note				Managinanegura	14.1.		



Job C	ontract	Cas	sette 6	Surveyed On 08/1	0/2004	Sheet 42	
Operator DWH	Van Reference	Weather	Dry				
Road Name MO	NTE CRISTO	Place	e Name TIEF	RRA VERDE			
Surface	t road (rural roads with light ple survey to determine as	•	back streets)				
Pipe Use Foul		Schedule length	265.8 <i>Ft</i>	From 40	···	Depth	5.30 Ft
Shape Circular		Size 8 by	ins	<b>To</b> 26		Depth	Ft
Material Vitrified cla	ay	Joint spacing	Ft	<b>Direction</b> Up			
Lining		Year laid	Cat A	Pre-clean Y	Last de	eaned	
General note	ATTENDED TO STATE OF THE STATE			Structural	Service	Col	ist-potione
Location note				Mirosharacour.			



#### for MID-COUNTY SERVICES, INC.

Job C	Contract	Cas	sette 6	Surveyed On 08/10	0/2004 <b>Sheet</b> 43	
Operator DWH	Van Reference	Weather	Dry			
Road Name MA	DONNA BLVD.	Place	Name TIEF	RRA VERDE		
Location type Ligi	nt road (rural roads with ligh	nter traffic,town & city b	ack streets)			
Surface						
Survey purpose San	nple survey to determine as	sset condition				
Pipe Use Foul		Schedule length	367.1 <i>Ft</i>	From 40	Depth	Ft
Shape Circular		Size 8 by	ins	<b>To</b> 29	Depth	Ft
Material Vitrified c	lay	Joint spacing	Ft	<b>Direction</b> Up		
Lining		Year laid	Cat A	Pre-clean Y	Last cleaned	
General note				Structural	Scrvice Cor	asiruction.
Location note				Miscellandus		

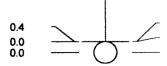
Distance (Ft)

Description (Showing all categories)

Media

67.1 — 29 (Upstream, Depth = Ft) Tape end:





Crack circumferential 06/oc

40 (Downstream. Depth = Ft) Tape start:0000

# for MID-COUNTY SERVICES, INC.

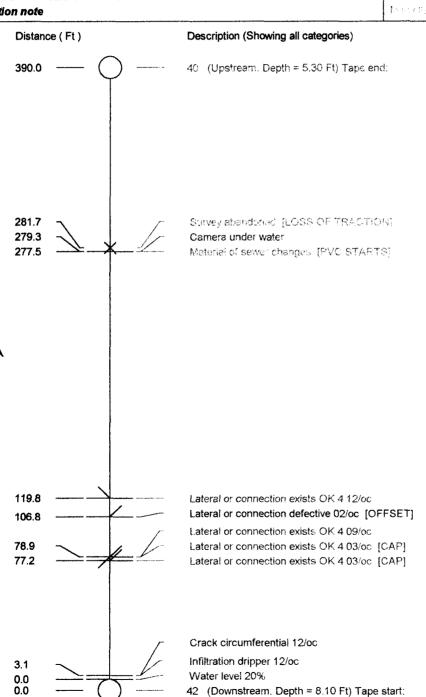
Media

Job C	ontract	Cas	sette 6	Surveyed On 08/1	0/2004 <b>SI</b>	ieet 44	
Operator DWH	Van Reference	Weather	Dry				
Road Name MA	DONNA BLVD.	Place	Name TIEF	RRA VERDE			
Location type Ligh	t road (rural roads with ligh	nter traffic,town & city b	oack streets)				
Surface							
Survey purpose Sam	ple survey to determine as	sset condition					
Pipe Use Foul		Schedule length	280.3 <i>Ft</i>	From 40		Depth	Ft
Shape Circular		Size 8 by	ins	To 41		Depth	Ft
Material Vitrified cl	зу	Joint spacing	Ft	Direction Up			
Lining		Year laid	Cat A	Pre-clean Y	Last clea	ned	
General note				Structural	Service	Concid	uslinus
Location note				Minoclassocies			

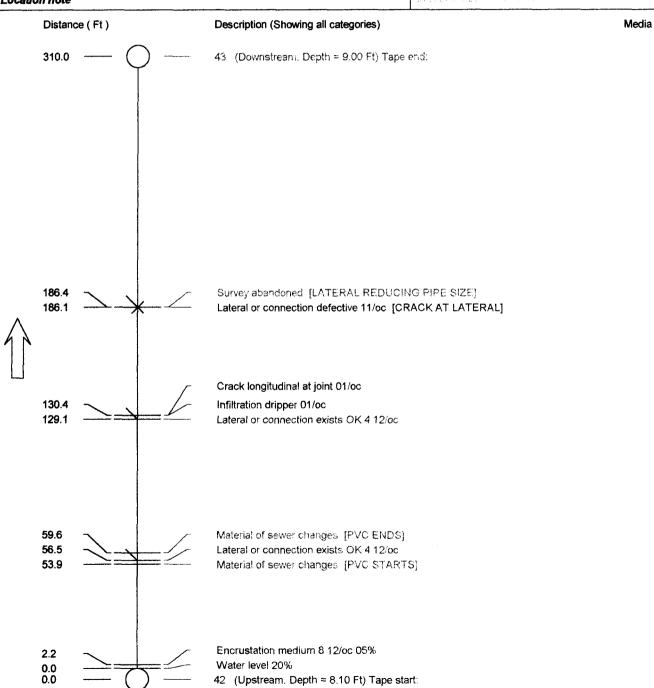
Description (Showing all categories) Distance (Ft) 41 (Upstream, Depth = Ft) Tapc end: 278.9 Infiltration gusher 04/oc. Lateral or connection exists OK 4 09/oc 173.9 Crack longitudinal 01/oc 69.9 Crack longitudinal 09/oc Lateral or connection exists OK 4 09/oc Water level 1% 40 (Downstream. Depth = Ft) Tape start:

### for MID-COUNTY SERVICES, INC.

Job C	ontract	Cas	sette 6	Surveyed On 08/1	1/2004	Sheet 45	
Operator BMN	Van Reference	Weather	Dry				
Road Name MO	NTE CRISTO	Place	Name TIE	RRA VERDE			
Location type Ligh	t road (rural roads with lig	hter traffic,town & city I	back streets)				
Surface							
Survey purpose Sam	ple survey to determine as	sset condition					
<b>Pipe Use</b> Foul		Schedule length	390.0 <i>Ft</i>	From 42		Depth	8.10 <i>Ft</i>
Shape Circular		Size 8 by	ins	<b>To</b> 40		Depth	5.30 Ft
Material Vitrified cl	ay	Joint spacing	Ft	<b>Direction</b> Up			
Lining		Year laid	Cat A	Pre-clean Y	Last c	leaned	
General note SEE S	HEET 49 FOR REVERSE	SETUP		Structura!	Scrvice	Opr	isti terbesta
Location note				Design to the following of the	18 × 1		



Pipe Graphic Re	port of PLR 42 X	for MID-CO	UNT	Y SERVICES, INC.		
Job	Contract	Cassette 6		Surveyed On 08/11/20	04 <b>Sheet</b> 46	
Operator BMN	Van Reference	Weather Dry				
Road Name	MONTE CRISTO	Place Name	TIER	RA VERDE		
Surface	Light road (rural roads with lig Sample survey to determine a	hter traffic,town & city back stre sset condition	ets)			
Pipe Use Foul		Schedule length 310.0	Ft	From 42	Depth	8.10 <i>Ft</i>
Shape Circul	ar	Size 8 by ins		<b>To</b> 43	Depth	9.00 Ft
<b>Material</b> Vitrifie	ed clay	Joint spacing Ft		<b>Direction</b> Down		
Lining		Year laid Cat	Α	Pre-clean Y L	Last cleaned	
General note se Location note	e sheet 47 for reverse setup		· · · · · · · · · · · · · · · · · · ·		rvice Co	serni sarium



### for MID-COUNTY SERVICES, INC.

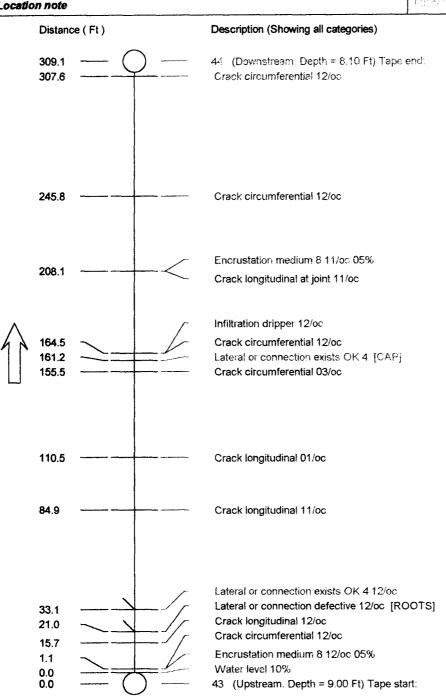
Media

Job C	ontract	Cas	ssette 6	Surveyed On 08/1	1/2004	Sheet 47	
Operator BMN	Van Reference	Weather	Dry				
Road Name MC	NTE CRISTO	Plac	e Name TIE	RRA VERDE			
Location type Ligh	it road (rural roads with ligi	nter traffic,town & city	back streets)				
Surface	,	·					
Survey purpose Sam	ple survey to determine as	set condition					
Pipe Use Foul		Schedule length	310.0 <i>Ft</i>	From 43		Depth	9.00 F
Shape Circular		Size 8 by	ins	To 42		Depth	8.10 F
Material Vitrified cl	ay	Joint spacing	Ft	<b>Direction</b> Up			
Lining		Year laid	Cat A	Pre-clean Y	Last c	leaned	
General note SEE S	HEET 46 FOR REVERSE	SETUP		Structural	Service	Out	sipat, jug
Location note				Manataneous			

Distance (Ft) Description (Showing all categories) 310.0 -42 (Upstream, Depth = 8.10 Ft) Tape end: Survey abandoned [LATERAL REDUCING PIPE SIZE] 122.2 Lateral or connection exists OK 4 12/oc 112.2 Encrustation medium 8 12/oc 05% 111.0 Crack circumferential 12/oc 63.4 Crack circumferential 12/oc Infiltration runner 08/oc Crack circumferential 12/oc Water level 10% 43 (Downstream. Depth = 9.00 Ft) Tape start:

## for MID-COUNTY SERVICES, INC.

Pipe Graphic Re	port of PLR 43 X	for MID-COUN	ITY SERVICES, INC.	
Job	Contract	Cassette 7	Surveyed On 08/11/2004	Sheet 48
Operator BMN	Van Reference	Weather Dry		
Road Name	MONTE CRISTO	<b>Place Name</b> TIE	RRA VERDE	
Surface	- ·	ghter traffic,town & city back streets asset condition	·)	
Pipe Use Foul		Schedule length 309.1 Ft	From 43	Depth 9.00 Ft
Shape Circu	lar	Size 8 by ins	To 44	Depth 8.10 Ft
Material Vitrifi	ed clay	Joint spacing Ft	<b>Direction</b> Down	
Цning		Year laid Cat A	Pre-clean Y Las	t cleaned
General note			Structural Servic	e Constitution
Location note			Minochemistre (pro	



## for MID-COUNTY SERVICES, INC.

Job C	Contract	Cas	sette 7	Surveyed On	08/11/2004	Sheet 49	
Operator BMN	Van Reference	Weather	Dry :				
Road Name MC	NTE CRISTO	Place	Name TI	ERRA VERDE			
Location type Ligh	nt road (rural roads with ligh	iter traffic,town & city b	back street:	5)			
Surface							
Survey purpose San	nple survey to determine as	set condition					
Pipe Use Foul		Schedule length	309.1 <b>F</b> t	From 40		Depth	5.30 Ft
Shape Circular		Size 8 by	ins	To 42		Depth	8.10 <i>Ft</i>
Material Vitrified c	ay	Joint spacing	Ft	Direction	Down		
Lining		Year laid	Cat	Pre-clean	Y Last	cleaned	
General note SEE S	HEET 45 FOR REVERSE	SETUP		Structura:	Scrvice	(in:	คริ แสร์แสดง
				Misu of spice	G. 1		

Distance (Ft)

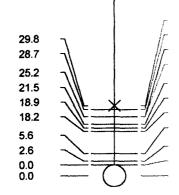
Description (Showing all categories)

Media

309.1 — 42 (Downstream, Depth = 8.10 Ft) Tape end:

X





Survey abandoned [OVERLAP]

General observation [CAMERA OUT OF WATER]

Camera under water

Material of sewer changes [PVC STARTS]

Infiltration gusher 10/oc

Cracks multiple 10/oc

Crack longitudinal 02/oc

Crack circumferential 12/oc

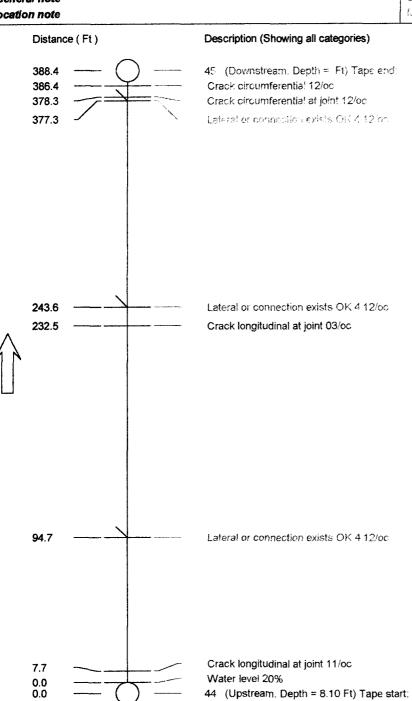
Crack circumferential 12/oc

Water level 10%

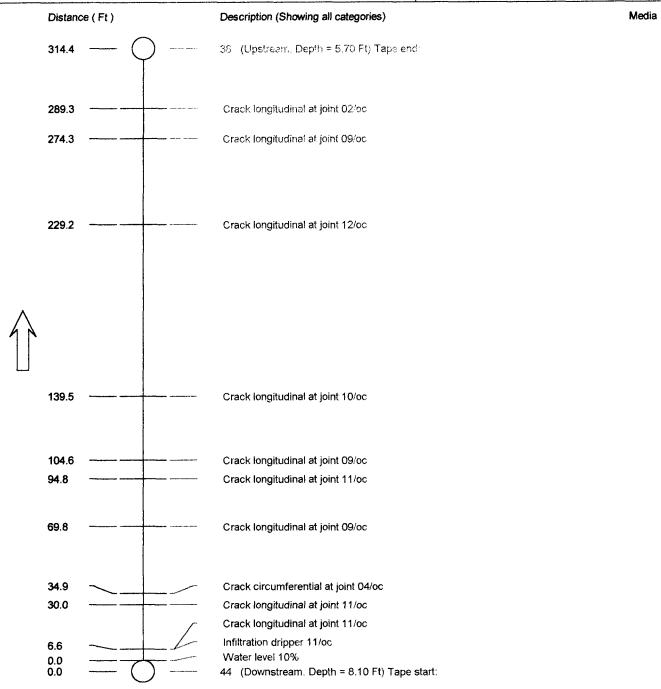
40 (Upstream. Depth = 5.30 Ft) Tape start:

# for MID-COUNTY SERVICES, INC.

Job C	ontract	Cas	sette 7	Surveyed On 08/11	1/2004	Sheet 50	
Operator BMN	Van Reference	Weather	Dry				
Road Name MO	NTE CRISTO	Place	e Name TIE	RRA VERDE			
Location type Ligh	nt road (rural roads with ligh	iter traffic,town & city I	back streets)	<b>F</b>			
Surface							
Survey purpose Sam	ple survey to determine as	set condition					
Pipe Use Foul		Schedule length	388.4 <i>Ft</i>	From 44		Depth	8.10 Ft
Shape Circular		Size 8 by	ins	<b>7o</b> 45		Depth	Ft
Material Vitrified cl	ay	Joint spacing	Ft	Direction Down	n		
Lining		Year laid	Cat A	Pre-clean Y	Last o	deaned	
General note				Structural	Service	Ser	asinin kalen
Location note				Marcedina cur			



ipo osapsiio i	eport of PLR	38 X	IC: WI	D-0000111	Y SERVICES, IN		
Job	Contract		Cass	ette 7	Surveyed On 08/11	/2004 <b>Sheet</b> 51	
Operator BMN	Van I	Reference	Weather [	Dry			
Road Name	e 4TH ST.		Place	Name TIER	RA VERDE		
Location type	Light road (rural	l roads with light	er traffic,town & city ba	ack streets)			
Surface	,	-					
Survey purpose	Sample survey t	io determine ass	et condition				
Pipe Use Foul		1	Schedule length	314.4 <i>Ft</i>	From 44	Depth	8.10 <b>F</b> i
Chana Cira	ular		Size 8 by	ins	To 38	Depth	5.70 <b>F</b>
Shape Circ					1		
Snape Circle Material Vitril	ied clay	1	Joint spacing	Ft	<b>Direction</b> Up		
•	îed clay	ļ	Joint spacing Year laid	Ft Cat A	Direction Up Pre-clean Y	Last cleaned	
<b>Material</b> Vitri	ied clay		, ,		Pre-clean Y		tur (Furtian

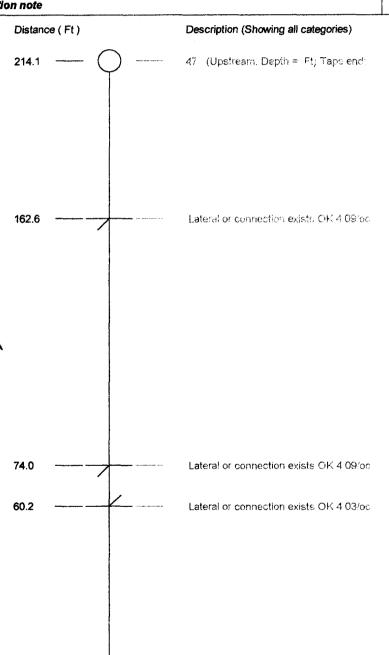


#### X

#### for MID-COUNTY SERVICES, INC.

Media

Job C	ontract	Cas	sette 7	Surveyed On 08/1	1/2004	Sheet 52	
Operator BMN	Weather	Dry					
Road Name 6Th	IST.	Place	Name TIE	RRA VERDE			
Location type Ligh	nt road (rura! roads with ligh	nter traffic,town & city t	back streets)				
Surface							
Survey purpose San	ple survey to determine as	sset condition					
Pipe Use Foul		Schedule length	214.1 <i>Ft</i>	From 46		Depth	5.70 F
Shape Circular		Size 8 by	ins	<b>To</b> 47		Depth	F
<b>Material</b> Polyvinly	chloride	Joint spacing	Pt	Direction Up			
Lining		Year laid	Cat A	Pre-clean Y	Last	cleaned	
General note				Structural	Service	Con	es region
Location note				Mago Tarengo S			



Water level 10%

46 (Downstream. Depth = 5.70 Ft) Tape start:

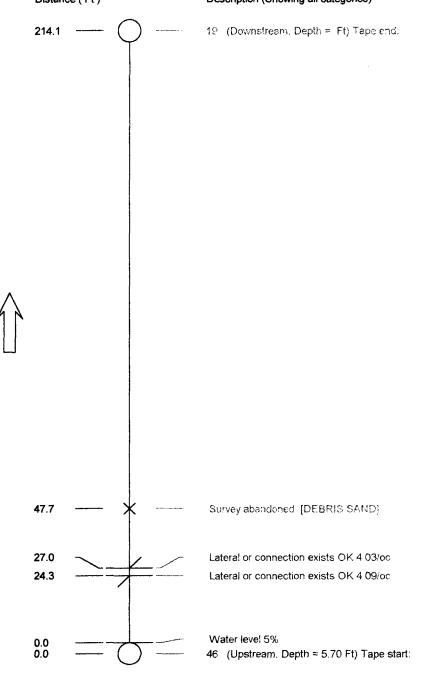
#### (

#### for MID-COUNTY SERVICES, INC.

Job C	Contract	Casse	tte 7	Surveyed On 08/11/2004	Sheet 53	
Operator BMN	Van Reference	<b>Weather</b> Dr	у			
Road Name 6T	H ST	Place N	ame TIER	RA VERDE		
Location type Ligi	nt road (rural roads with lig	hter traffic,town & city bac	k streets)			
Surface						
Survey purpose San	ple survey to determine a	sset condition				
Pipe Use Foul		Schedule length 21	4.1 <i>Ft</i>	From 46	Depth	5.70 F
Shape Circular		Size 8 by	ins	<b>To</b> 19	Depth	F
		t		Diversities Decem		
<b>Material</b> Polyvinly	chloride	Joint spacing	Ft	Direction Down		
<b>Material</b> Polyvinly <b>Lining</b>	chloride	Joint spacing Year laid	Pt Cat A		st cleaned	
, ,		, ,				\$186K_167

Distance (Ft)

#### Description (Showing all categories)

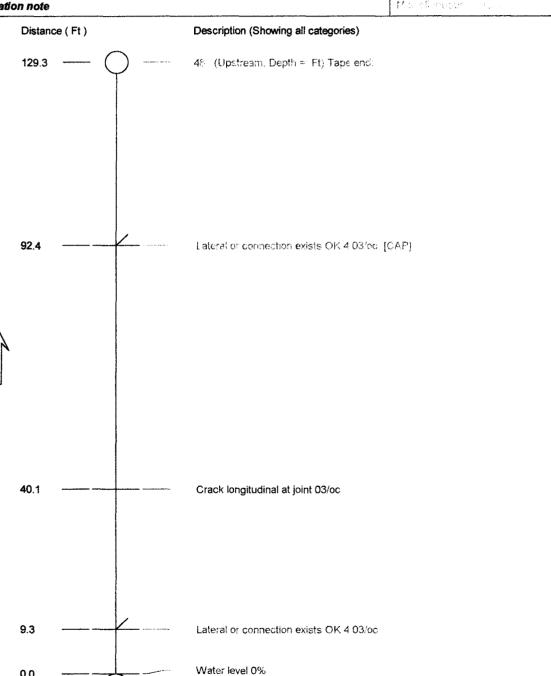


X

# for MID-COUNTY SERVICES, INC.

Media

Job C	ontract	Cass	sette 7	Surveyed On 08/1	1/2004	Sheet 54	
Operator BMN	Van Reference	Weather	Dry				
Road Name 8T	HAVE N	Place	Name TIER	RA VERDE			
Location type Ligh	nt road (rural roads with ligh	nter traffic,town & city b	ack streets)				
Surface							
Survey purpose San	ple survey to determine as	sset condition					
Pipe Use Foul		Schedule length	129.3 Ft	From 49		Depth	Ft
Shape Circular		Size 8 by	ins	To 48		Depth	Ft
Adams and a server of the	av	Joint spacing	Fl	Direction Up			
Material Vitrified of							
Lining	-,	Year laid	Cat A	Pre-clean Y	Last cl	eaned	
		1 ,	Cat A	Pre-clean Y Structura	Last d	eaned Genetic	arcii stre

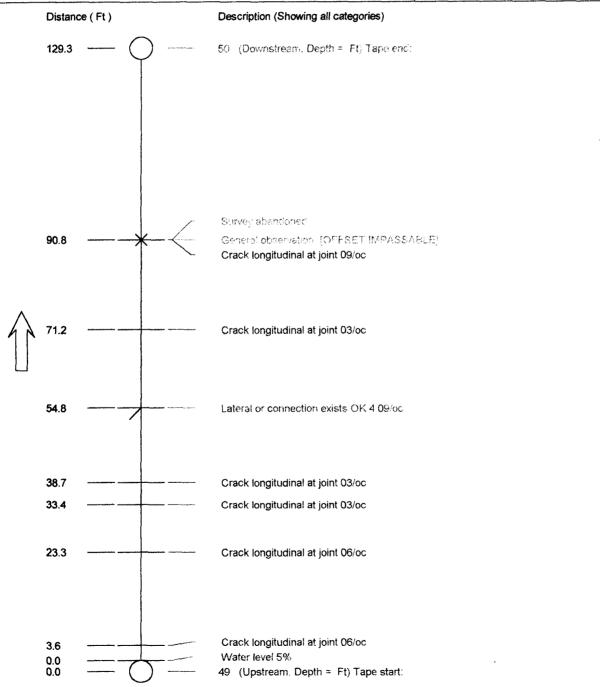


49 (Downstream. Depth = Ft) Tape start:

)

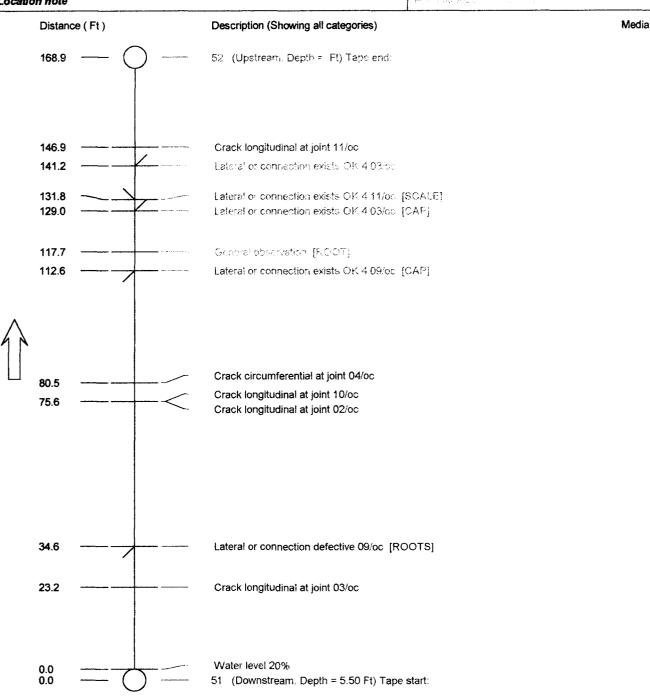
for MID-COUNTY SERVICES, INC

Job	Contract	Cass	ette 7	Surveyed On 08/11/20	004 <b>Sheet</b> 55	
Operator BMN	Van Reference	Weather !	Dry			
Road Name	8YH AVE N	Place	Name TIEF	RRA VERDE		
Location type	Light road (rural roads with ligh	nter traffic,town & city b	ack streets)			
Surface						
Survey purpose	Sample survey to determine as	set condition				
Pipe Use Foul		Schedule length	129.3 <b>H</b>	From 49	Depth	Ft
Pipe Use Foul Shape Circul	ar	Schedule length Size 8 by	129.3 Pt ins	<b>From</b> 49 <b>To</b> 50	Depth Depth	Ft Ft
				1	•	
Shape Circul		Size 8 by	ins	To 50  Direction Down	•	
Shape Circul Material Vitrifie		Size 8 by Joint spacing	ins Ft	To 50  Direction Down  Pre-clean Y	Depth  Last cleaned	



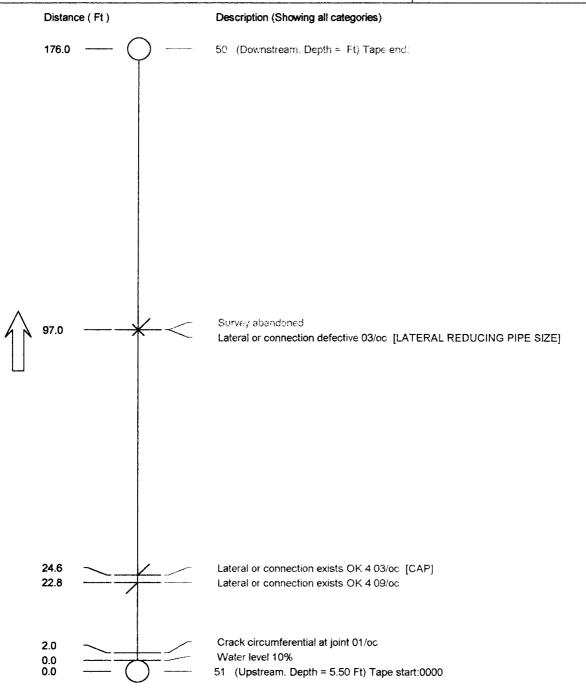
#### for MID-COUNTY SERVICES, INC.

Job C	Contract	Cas	isette 8	Surveyed On 08/1	2/2004	Sheet 56	
Operator BMN	Van Reference	Weather	Dry				
Road Name 8TI	HAVE N	Place	e Name TIEI	RRA VERDE			
Location type Ligh	nt road (rural roads with ligh	nter traffic,town & city I	back streets)				
Surface							
Survey purpose San	nple survey to determine as	sset condition					
Pipe Use Foul		Schedule length	168.9 <i>Ft</i>	From 51		Depth:	5.50 <b>Ft</b>
Shape Circular		Size 8 by	ins	<b>To</b> 52		Depth	Ft
Material Vitrified cl	ay	Joint spacing	Pt	<b>Direction</b> Up			
Lining		Year laid	Cat A	Pre-clean Y	Last o	deaned	
General note	AL AND THE STREET OF THE STREE			Structure!	Scrylur	5.61	at the silving
Location note				Bulletic Barroom			



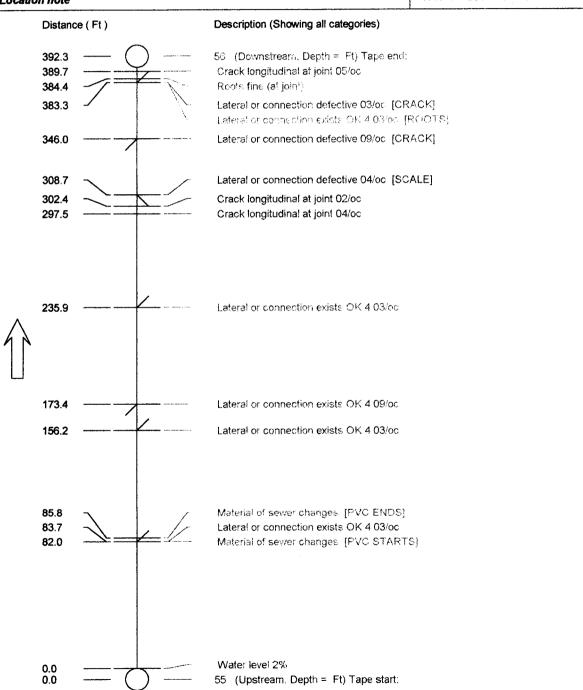
#### for MID-COUNTY SERVICES, INC.

Job C	Contract	Cas	sette 8	Surveyed On	08/12/2004	Sheet 57	
Operator BMN	Van Referenc∈	<b>Weath</b> er	Dry				
Road Name 8T	HAVE N	Place	e Name TIE	RRA VERDE	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
<b>Location type</b> Ligh	nt road (rural roads with ligh	nter traffic,town & city I	back streets	)			
Surface							
Survey purpose San	nple survey to determine as	set condition					
Pipe Use Foul		Schedule length	176.0 <b>Ft</b>	From 51		Depth	5.50 F
Shape Circular		Size 8 by	ins	<b>To</b> 50		Depth	F
Material Vitrified c	ay	Joint spacing	Ft	Direction	Down		
Lining		Year laid	Cat A	Pre-clean	Y <b>Las</b> t	cleaned	
General note SEE S	HEET 93 FOR REVERSE	SETUP	F	Structural	Service.	Ces	w'-eetien
Location note				Wispelfankio	J15 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		

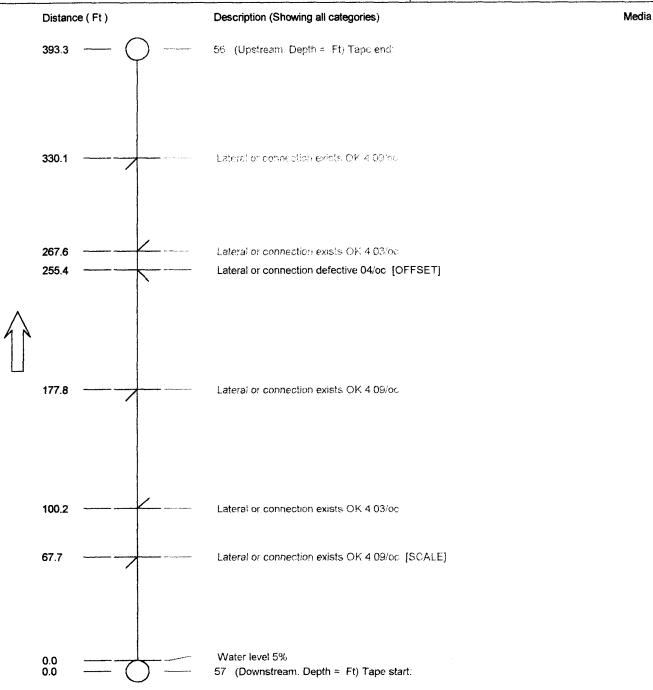


for	MID-	COUNT	Y	SERVICES,	INC.
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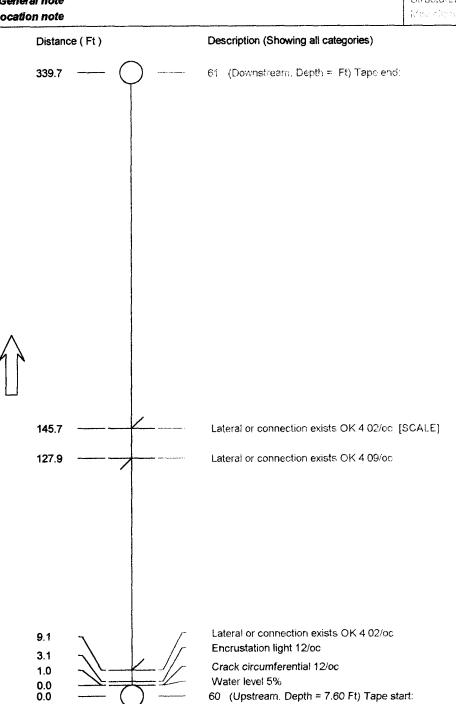
Job	Contract	Cas	sette 8	Surveyed On 08/12	/2004	Sheet 58	
Operator BMN	Van Reference	Weather	Dry				
Road Name 19	ST ST. W	Place	Name TIEF	RRA VERDE			
Location type Lig	ght road (rural roads with lig	hter traffic,town & city t	oack streets)				
Surface							
Survey purpose Sa	mple survey to determine a	sset condition					
Pipe Use Foul		Schedule length	392.3 <i>Ft</i>	From 55		Depth	Ft
Shape Circular		Size 8 by	ins	To 56		Depth	Ft
<b>Material</b> Vitrified	cłay	Joint spacing	Ft	<b>Direction</b> Down	1		
Lining		Year laid	Cat A	Pre-clean Y	Last c	leaned	
General note				Structura:	Service	Consi	uctions
Location note				Makestanica	$E_{\mu}(0, M)$		



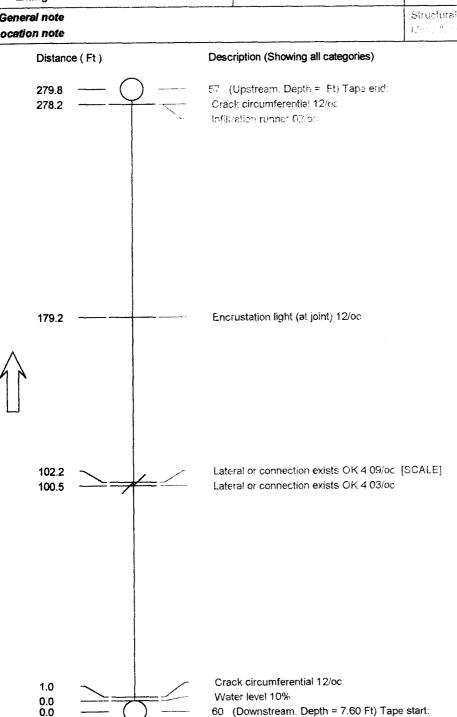
Job (	Contract	Casse	tte 8	Surveyed On 08/12	2/2004 <b>She</b> et 59	
Operator BMN	Van Reference	Weather Dr	у			
Road Name 1S	r st. w	Place N	ame TIER	RRA VERDE		
Location type Ligi	nt road (rural roads with ligh	ter traffic,town & city bac	k streets)			
Surface						
Survey purpose San	nple survey to determine as	set condition				
Pipe Use Foul		Schedule length 39	3.3 <i>Ft</i>	From 57	Depth	Ft
Shape Circular		Size 8 by	ins	<b>To</b> 56	Depth	Ft
	av	Joint spacing	Ft	Direction Up		
Material Vitrified c	uy					
<b>Material</b> Vitrified c	u,	Year laid	Cat A	Pre-clean Y	Last cleaned	
		,	Cat A	Pre-clean Y Structure!	Last cleaned Scrylos Centers	cir i



Job	Contract	Cas	ssette 8		Surveyed On 08/16/2004	Sheet 60	
Operator BMN	Van Reference	Weather	Dry				
Road Name	2ND ST. W.	Place	e Name T	TIER	RA VERDE		
Location type	Light road (rural roads with ligh	hter traffic,town & city	back stree	ets)			
Surface	,						
Survey purpose	Sample survey to determine as	sset condition					
Pipe Use Foul		Schedule length	339.7	Ft	From 60	Depth	7.60 <b>F</b>
Shape Circu	ilar	Size 8 by	ins		To 61	Depth	F
<b>Material</b> Vitrifi	ed clay	Joint spacing	Ft		<b>Direction</b> Down		
Lining		Year laid	Cat	Α	Pre-clean Y Last	t cleaned	
					Simulated Service	Car	an arian
General note					1 000000000		



Job	Contract	Cass	ette 8	Surveyed On 08/1	6/2004 <b>Sh</b>	<b>ee</b> £ 61	
Operator BMN	Van Reference	Weather [	Dry				
Road Name 1	ST & 2ND ST. W.	Place	Name TIE	RRA VERDE			
Location type Li	ght road (rural roads with ligh	nter traffic,town & city ba	ack streets)				
Surface							
Survey purpose Sa	ample survey to determine as	sset condition					
Pipe Use Foul		Schedule length	279.8 <b>Ft</b>	From 60		Depth	7.60 <b>Ft</b>
Shape Circular	•	Size 8 by	ins	<b>To</b> 57		Depth	Ft
Materia! Vitrified	clay	Joint spacing	Fŧ	<b>Direction</b> Up			
Lining		Year laid	Cat A	Pre-clean Y	Last clea	ned	
Lilling							
General note				Structural	Servino	(7)	st istico v

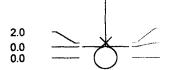


for MID-COUNTY SERVICES, INC.

Media

Joh C	ontract	Cas	sette 8	Surveyed On 08/1	6/2004	Sheet 62	
Operator BMN	Van Reference	Weather	Dry				
Road Name 2N	OST. W.	Place	Name TIE	RRA VERDE			
Location type Ligh	it road (rural roads with ligh	hter traffic,town & city I	back streets)				
Surface							
Survey purpose Sam	ple survey to determine a	sset condition					
Pipe Use Foul		Schedule length	340.0 <i>Ft</i>	From 60		Depth	7.60 <b>F</b> (
Shape Circular		Size 8 by	ins	<b>To</b> 59		Depth	4.00 Ft
Material Vitrified cl	ay	Joint spacing	Ft	<b>Direction</b> Up			
Lining		Year laid	Cat A	Pre-clean Y	Last d	eaned	
General note SEE S	HEET 63 FOR REVERSE	SETUP		Structura!	Service	Car	at udik b
Location note				Marchen			

Ining | Joint spacing | Ft | Direction | Up | Vear laid | Cat | A | Pre-clean | Y | Last cleaned | Vear laid | Cat | A | Pre-clean | Y | Last cleaned | Vear laid | Cat | A | Pre-clean | Y | Last cleaned | Vear laid | Cat | A | Pre-clean | Y | Last cleaned | Vear laid | Cat | A | Pre-clean | Y | Last cleaned | Vear laid | Cat | A | Pre-clean | Y | Last cleaned | Vear laid | Cat | A | Pre-clean | Y | Last cleaned | Vear laid | Cat | A | Pre-clean | Y | Last cleaned | Vear laid | Cat | A | Pre-clean | Y | Last cleaned | Vear laid | Cat | A | Pre-clean | Y | Last cleaned | Vear laid | Cat | A | Pre-clean | Y | Last cleaned | Vear laid | V



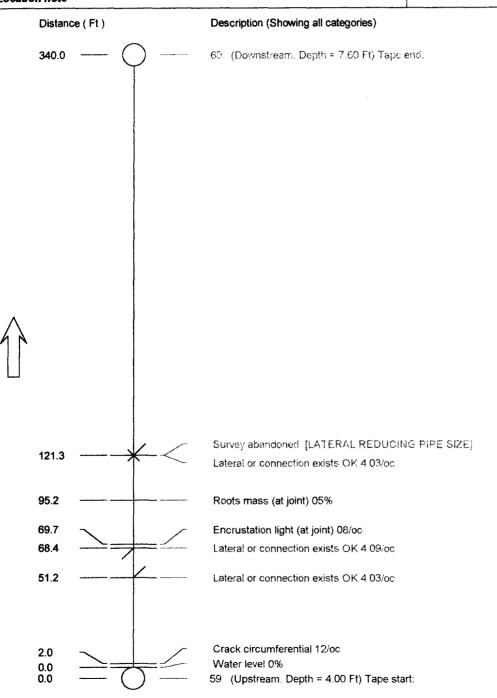
Survey abandoned [DROF]

Water level 5%

60 (Downstream. Depth = 7.60 Ft) Tape start:

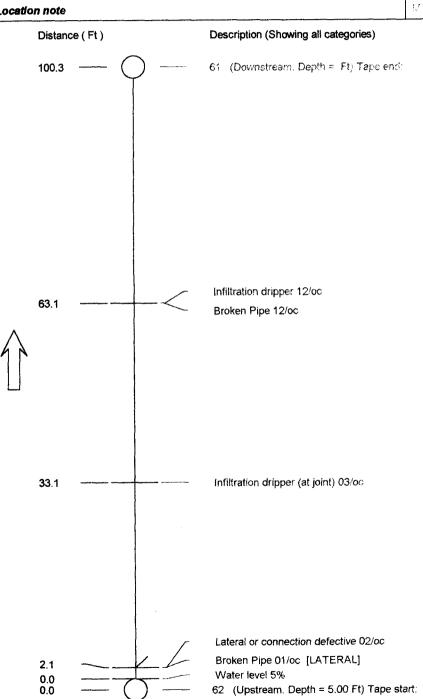
#### for MID-COUNTY SERVICES, INC.

			1.0 .00/10/0001
Job	Contract	Cassette 9	Surveyed On 08/16/2004 Sheet 63
Operator BMN	Van Reference	<b>Weather</b> Dry	
Road Name	2ND ST. W.	Place Name T	IERRA VERDE
Location type \	ight road (rura! roads with	lighter traffic,town & city back stree	ts)
Surface	,		
Survey purpose S	Sample survey to determin	e asset condition	
Pipe Use Foul	<u> </u>	Schedule length 340.0 F	From 59 Depth 4.00 Fi
Pipe Use Foul Shape Circula	Г	Schedule length 340.0 F Size 8 by Ins	Ft From 59 Depth 4.00 Ft To 60 Depth 7.60 Ft
•			
Shape Circula		Size 8 by Ins	To 60 Depth 7.60 Fi
Shape Circula  Material Vitrified  Lining		Size 8 by Ins Joint spacing Ft Year laid Cat	To 60 Depth 7.60 Fi



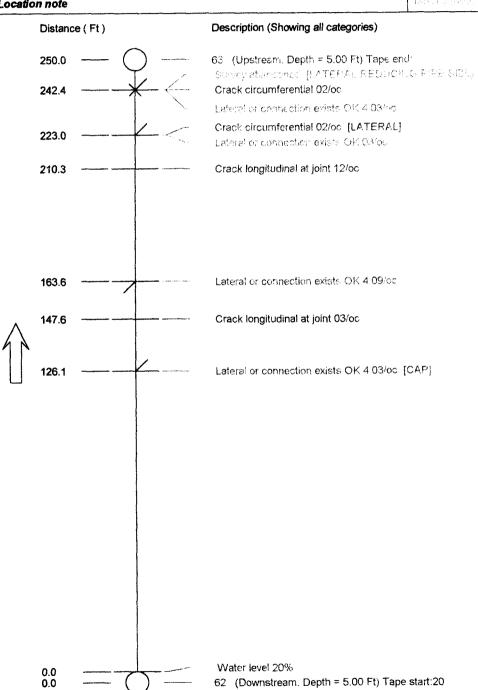
# for MID-COUNTY SERVICES, INC.

Job (	Contract	Cas	ssette 9	Surveyed On 08/1	6/2004	Sheet 64	
Operator BMN	Van Reference	Weather	Dry				
Road Name 1S	TAVE. N.	Place	e Name TIE	RRA VERDE			
Location type Lig	ht road (rura) roads with ligh	nter traffic,town & city	back streets	)			
Surface							
Survey purpose Sar	nple survey to determine as	sset condition					
Pipe Use Foul		Schedule length	100.3 <i>Ft</i>	From 62		Depth	5.00 <i>Ft</i>
Shape Circular		Size 8 by	ins	To 61		Depth	Ft
Material Vitrified o	lay	Joint spacing	Fí	<b>Direction</b> Dov	'n		
Lining	•	Year laid	Cat A	Pre-clean Y	Last	cieaned	
General note				Structural	Service	Cos	nil stellerad
Location note				Modellandage	3.5		



for MID-COUNTY SERVICES, INC.

Job C	ontract	Cas	sette 9	Surveyed On 08/10	5/2004	Sheet 65	
Operator BMN	Van Reference	Weather	Dry				
Road Name VA	CATED	Place	e Name TIEI	RRA VERDE			
Location type Ligh	nt road (rura! roads with ligh	hter traffic,town & city I	back streets)				
Surface							
Survey purpose San	ple survey to determine as	sset condition					
Pipe Use Foul		Schedule length	250.0 Ft	From 62		Depth	5.00 <i>Ft</i>
Shape Circular		Size 8 by	ins	To 63		Depth	5.00 <b>F</b> t
Material Vitrified cl	ay	Joint spacing	Ft	<b>Direction</b> Up			
Lining		Year laid	Cat A	Pre-clean Y	Last cle	aned	
General note SEE S	HEET 66 FOR REVERSE	SETUP		Structural	Service	Cont	satistic North
Location note				Massollessesses			



fer MID-COUNTY SERVICES, INC.

Job	Contract	Cas	sette 9	Surveyed Or	Surveyed On 08/16/2004 She		
Operator BMN	Van Reference	Weather	Dry				
Road Name V	Place	Name Til	ERRA VERDE				
Location type Li	ght road (rural roads with ligh	hter traffic,town & city I	back street:	s)			
Surface							
Survey purpose Sa	imple survey to determine a	sset condition					
Pipe Use Foul		Schedule length	250.0 Ft	From 63		Depth	5.00 Ft
Shape Circular		Size 8 by	ins	<b>To</b> 62		Depth	5.00 Ft
Material Vitrified	clay	Joint spacing	Ft	Direction	Down		
Lining		Year laid	Cat /	Pre-clean	Y Last	cleaned	
General note SEE	SHEET 65 FOR REVERSE	SETUP		Structure:	Scrib	£ + .	ath, me te
Location note				With all tare	e, 14, 11 to 1		

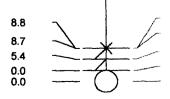
Distance (Ft)

Description (Showing all categories)

Media

62 (Downstream, Depth = 5.00 Ft) Tapo end:





Survey abandoned [LATERAL REDUCING PIPE SIZE]

Lateral or connection exists OK 4 09/oc

Lateral or connection exists OK 4 09/oc [CAP]

Water level 0%

63 (Upstream. Depth = 5.00 Ft) Tape start:

Pipe	Graphic	Report	of PLR	64	X
E INC	CO CONTINUE	1 40 DOS C		4-1	•

#### for MID-COUNTY SERVICES, INC.

Job C	ontract	Cas	sette 9	Surveyed On 08/1	6/2004 <b>SI</b>	heet 67	
Operator BMN	Van Reference	Weather	Dry				
Road Name ALI	EY	Place	e Name TIE	RRA VERDE			
Location type Ligh	it road (rural roads with ligi	nter traffic,town & city I	back streets)				
Surface							
Survey purpose Sam	ple survey to determine as	sset condition					
Pipe Use Foul		Schedule length	250.0 <i>Ft</i>	From 63		Depth	5.00 <i>Ft</i>
Shape Circular		Size 8 by	ins	<b>To</b> 64		Depth	Ft
Material Vitrified cl	ay	Joint spacing	Ft	Direction Up			
Lining		Year laid	Cat A	Pre-clean Y	Last clea	aned	
General note SEE S	HEET 83 FOR REVERSE	SETUP		Structural	Service	Crit	est on the se
Location note				Mispell repres			

Distance (Ft)

Description (Showing all categories)

64 (Upstream. Depth = Ft) Tape end:

Media



19.7 19.3

Survey abandoned [LATERAL REDUCING PIPE SIZE]

Lateral or connection exists OK 4 03/oc

Water level 10%

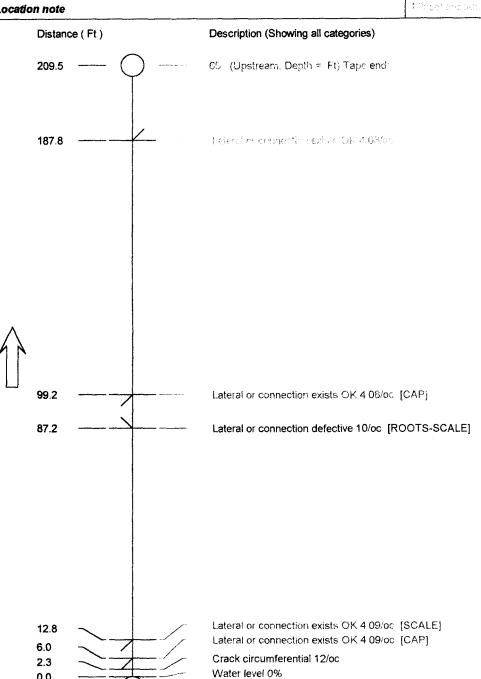
63 (Downstream. Depth = 5.00 Ft) Tape start:

Pipe	Graphic	Report	of PLR	65
------	---------	--------	--------	----

#### for MID-COUNTY SERVICES, INC.

Media

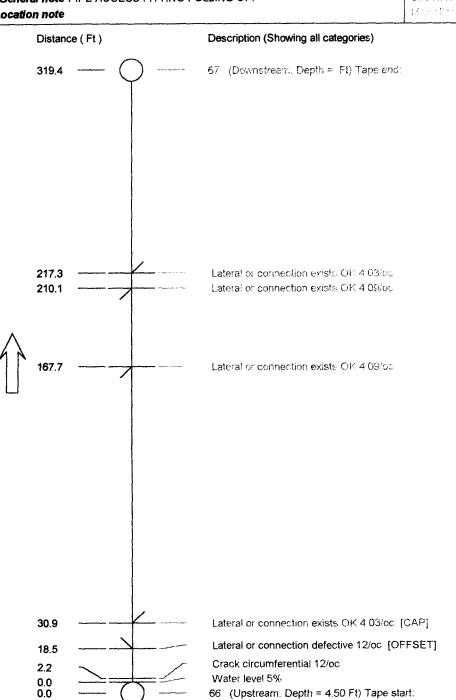
Pipe Graphic Rep	ont of PLR 00	X for N	11 <i>0-</i> 001%	Y SERVICES, IN	10.		
Job	Contract	Cas	sette 9	Surveyed On 08/10	6/2004 <b>SI</b>	heet 68	
Operator BMN	Van Reference	Weather	Dry				
Road Name 4	ITH ST. W.	Place	e Name TIEF	RRA VERDE			
Location type L	ight road (rural roads with	n lighter traffic,town & city I	back streets)				
Surface	`	-					
Survey purpose S	ample survey to determin	ne asset condition					
Pipe Use Foul		Schedule length	209.5 <i>Ft</i>	From 66		Depth	4.50 <b>F</b> £
Shape Circula	r	Size 8 by	ins	To 65		Depth	Ft
<b>Material</b> Vitrified	clay	Joint spacing	Fi	<b>Direction</b> Up			
Lining	•	Year laid	Cat A	Pre-clean Y	Last clea	aned	
				Structura <sup>1</sup>	Service	Con	ist valia v
General note							



66 (Downstream, Depth = 4.50 Ft) Tape start:

#### for MID-COUNTY SERVICES, INC.

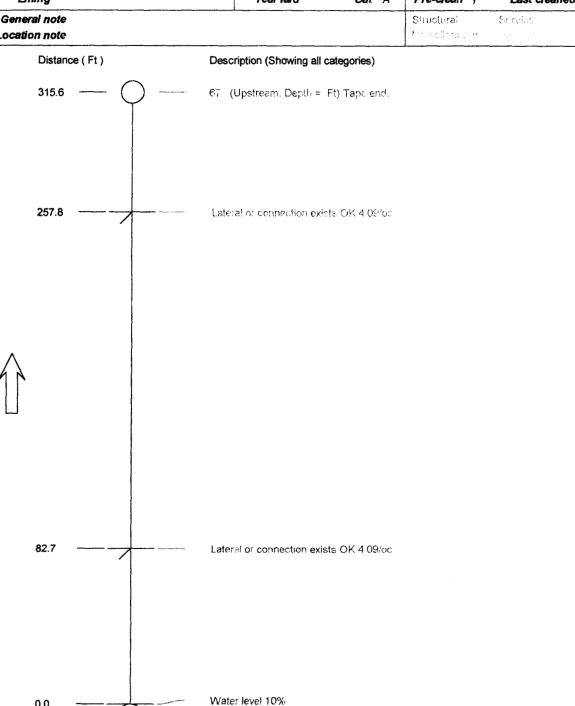
Job C	Contract	Cas	sette 9	Surveyed On 08/16/	2004 <b>Sheet</b> 69	
Operator BMN	Van Reference	Weather	Dry			
Road Name 3R	DAVE. N.	Place	e Name TIEI	RRA VERDE		
<b>Location type</b> Ligh	nt road (rura! roads with ligh	hter traffic,town & city I	back streets)			
Surface						
Survey purpose San	ple survey to determine as	sset condition				
Pipe Use Foul		Schedule length	319.4 Ft	From 66	Depth	4.50 <i>Ft</i>
Shape Circular		Size 8 by	ins	<b>To</b> 67	Depth	Ft
Material Vitrified cl	ay	Joint spacing	Ft	<b>Direction</b> Down		
Lining		Year laid	Cat A	Pre-clean Y	Last cleaned	
General note PIPE	ACCESS FITTING PULLIN	G OFF		Structura; :	Service Co	g Superficience I
Location note				Miscolings:		



# for MID-COUNTY SERVICES, INC.

Media

Job C	ontract	Cas	sette 9	Surveyed On 08/1	6/2004	Sheet 70	
Operator BMN	Van Reference	Weather	Dry				
Road Name 3R	DAVE. N.	Place	e Name TIEI	RRA VERDE			
Location type Ligh	it road (rural roads with ligh	iter traffic,town & city I	back streets)				
Surface		•					
Survey purpose San	ple survey to determine as	set condition					
Pipe Use Foul		Schedule length	315.6 <i>Ft</i>	From 69		Depth	6.00 Ft
Shape Circular		Size 8 by	ins	<b>To</b> 67		Depth	Ft
Material Vitrified of	ay	Joint spacing	Ft	<b>Direction</b> Up		•	
Lining		Year laid	Cat A	Pre-clean Y	Last	deaned	
General note	10.1			Structural	Service	Circ	ecan a Ulma
Location note				Mith confirmations			



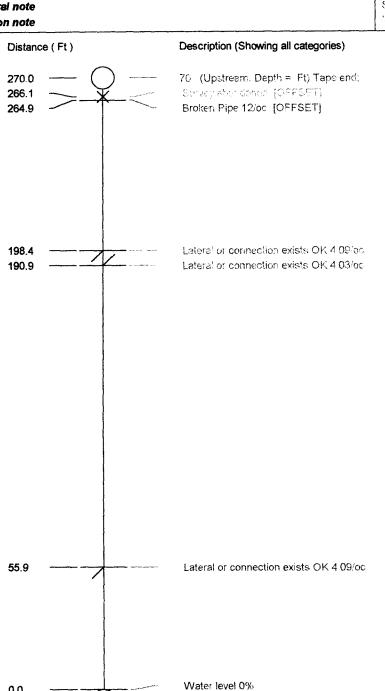
69 (Downstream. Depth = 6.00 Ft) Tape start:

#### for MID-COUNTY SERVICES, INC.

Media

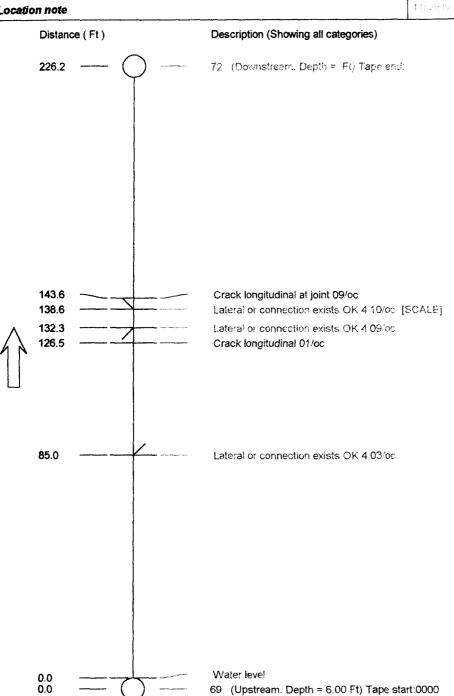
Job C	Contract	Cas	sette 9	9 <b>Surveyed On</b> 08/16/2004		4 <b>Sheet</b> 71	
Operator BMN	Van Reference	Weather	Dry				
Road Name 3R	D ST. W.	Place	e Name TIEF	RRA VERDE			
Location type Ligh	nt road (rural roads with ligh	nter traffic,town & city I	back streets)				
Surface							
Survey purpose San	ple survey to determine as	set condition					
Pipe Use Foul		Schedule length	270.0 <i>Ft</i>	From 69		Depth	6.00 F1
Shape Circular		Size 8 by	ins	<b>To</b> 70		Depth	F
Material Vitrified c	ay	Joint spacing	Ft	<b>Direction</b> Up			
Lining		Year laid	Cat A	Pre-clean Y	Last de	aned	
General note		<u></u>		Structura!	Service	Cer	menterio.
Location note				With netterning			

69 (Downstream. Depth = 6.00 Ft) Tape start:



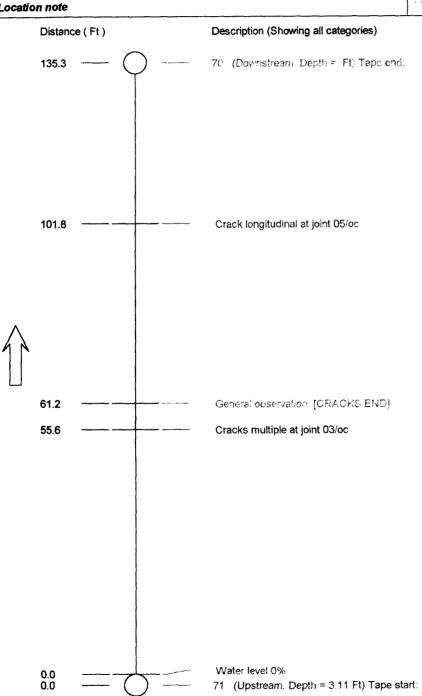
#### for MID-COUNTY SERVICES, INC.

Job	Contract	Cas	sette 9	Surveyed Or	08/16/2004	Sheet 72	
Operator BMN	Van Reference	Weather	Dry				
Road Name 3F	RD AVE. N.	Place	e Name TIE	RRA VERDE			
Location type Lig	ht road (rura! roads with ligh	nter traffic,town & city I	back streets)	)			
Surface							
<b>Survey purpose</b> Sa	mple survey to determine as	set condition					
Pipe Use Foul		Schedule length	226.2 Ft	From 69		Depth	6.00 <i>Ft</i>
Shape Circular		Size 8 by	ins	<b>To</b> 72		Depth	Ft
Material Vitrified	day	Joint spacing	Ft	Direction	Down		
Lining		Year laid	Cat A	Pre-clean	Y Last	cleaned	
General note	· · · · · · · · · · · · · · · · · · ·			Structural	Service	Cot	en edicav
Location note				figures to seco	(1991)		



# for MID-COUNTY SERVICES, INC.

Job C	ontract	Cas	ssette 10	Surveyed On 08/1	6/2004 <b>Sheet</b> 73		
Operator BMN	Van Reference	Weather	Dry				
Road Name 2N	Place	Place Name TIERRA VERDE					
Location type Ligh	nt road (rural roads with lig	hter traffic,town & city	back streets)				
Surface							
Survey purpose San	ple survey to determine a	sset condition					
Pipe Use Foul		Schedule length	135.3 <i>Ft</i>	From 71	Depth	3.11 <i>Ft</i>	
Shape Circular		Size 8 by	ins	<b>To</b> 70	Depth	Ft	
Material Vitrified cl	ay	Joint spacing	Ft	Direction: Dow	n		
Lining		Year laid	Cat A	Pre-clean Y	Last cleaned		
General note				Structural	Sorvio (7)	ni na tao a	
Location note				# \$50 mediginal gog			



# for MID-COUNTY SERVICES, INC.

Media

Job C	Contract	Cas	sette 10	Surveyed On 08/1	17/2004 <b>Sheet</b>	74
Operator BMN	Van Reference	Weather	Dry			
Road Name 3R	Place	e Name TIE	RRA VERDE			
Location type Ligh	nt road (rural roads with ligh	nter traffic,town & city	back streets	)		
Surface						
Survey purpose San	nple survey to determine as	sset condition				
Pipe Use Foul		Schedule length	91.1 Ft	From 78	Dept	th 4.10 Ft
Shape Circular		Size 8 by	ins	<b>To</b> 77	Dept	th Ft
Material Vitrified c	ay	Joint spacing	Ft	Direction Up		
Lining		Year laid	Cat A	Pre-clean Y	Last cleaned	
General note				Structura!	Scrvice (	Court La Catal
Location note				Mark the state of		

Description (Showing all categories) Distance (Ft) 77 (Upstream, Depth = Ft) Tape end: Lateral or connection exists OK 4 09/oc

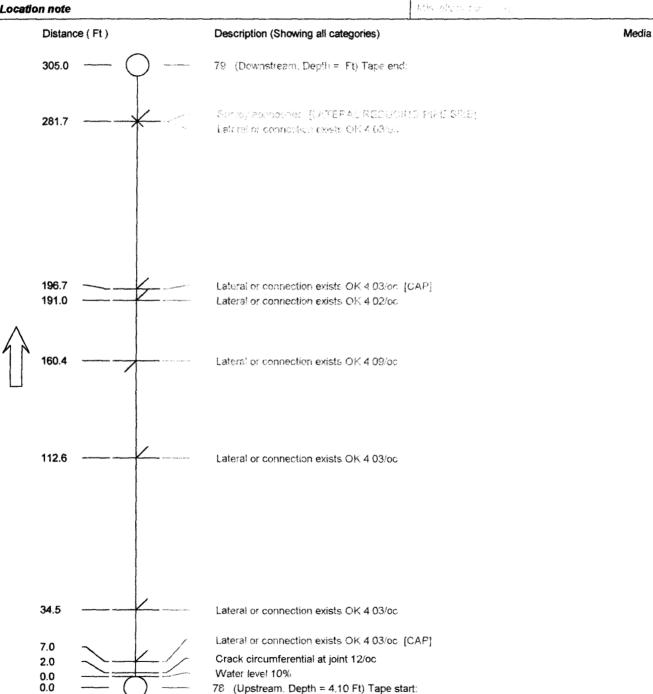
0.0

Water level 5%

78 (Downstream. Depth = 4.10 Ft) Tape start:

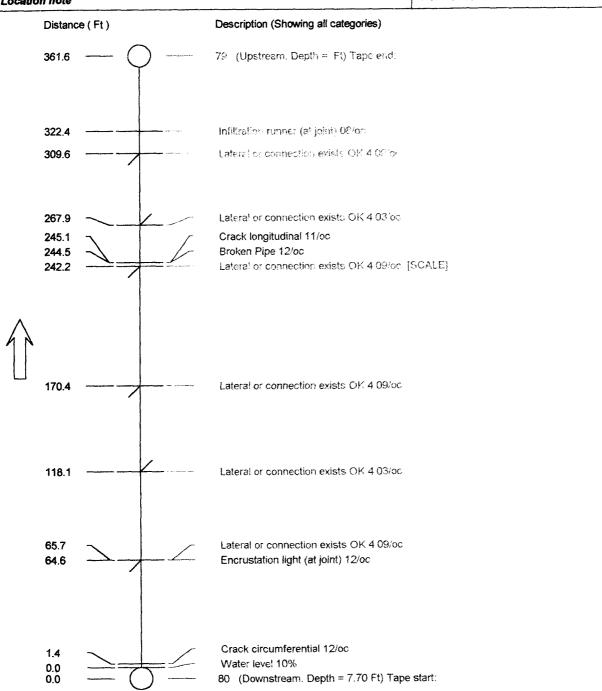
### for MID-COUNTY SERVICES, INC.

Job C	ontract	Cas	ssette 10	Surveyed Or	08/17/2004	Sheet 75	
Operator BMN	Van Reference	Weather	Dry				
Road Name 3RE	AVE. N.	Place	e Name TIE	RRA VERDE			
Location type Ligh	t road (rura! roads with ligh	hter traffic,town & city	back streets)				
Surface							
Survey purpose Sam	ple survey to determine as	sset condition					
Pipe Use Foul		Schedule length	305.0 <i>Ft</i>	From 78		Depth	4.10 Ft
Shape Circular		Size 8 by	ins	<b>To</b> 79		Depth	Ft
Material Vitrified cla	ау	Joint spacing	Ft	Direction	Down		
Lining		Year laid	Cat A	Pre-clean	Y Last	t cleaned	
General note SEE S	HEET 77 FOR REVERSE	SETUP		Structura!	Se tylo	i Co	os torrette tar
Location note				Mile element	tige vi		



for MID-COUNTY SERVICES, INC.

Job C	ontract	Cas	sette 10	Surveyed On 08/1	7/2004 <b>S</b> !	heet 76	
Operator BMN	Van Reference	Weather	Dry				
Road Name 3RI	DAVE. N.	Piac	e Name TIEF	RRA VERDE			
Location type Ligh	t road (rural roads with ligh	nter traffic,town & city	back streets)				
Surface							
Survey purpose Sam	ple survey to determine as	sset condition					
Pipe Use Foul		Schedule length	361.6 <i>Ft</i>	From 80		Depth	7.70 <b>F</b> i
Shape Circular		Size 8 by	ins	<b>To</b> 79		Depth	F
Material Vitrified cl	ау	Joint spacing	Ft	<b>Direction</b> Up			
Lining		Year laid	Cat A	Pre-clean Y	Last de	aned	
General note				Structura!	Service	Çiçir	at roller.
Location note				Migantianspire	and the second		



#### Pine Graphic Report of PLR 78 X

#### for MID-COUNTY SERVICES, INC.

Media

Job C	ontract	Cas	sette 10	Surveyed On 08/17	7/2004 <b>Sh</b>	eet 77	
Operator BMN	Van Reference	Weather	Dry				
Road Name 3RI	DAVE. N.	Piace	Name TIE	RRA VERDE			
Location type Ligh	it road (rural roads with ligh	ter traffic,town & city t	oack streets)				
Surface							
Survey purpose Sam	ple survey to determine as	set condition					
Pipe Use Foul		Schedule length	305.0 <i>Ft</i>	From 79	1	Depth	Ft
Shape Circular		Size 8 by	ins	<b>To</b> 78	I	Depth	4.10 Pt
Material Vitrified cl	ay	Joint spacing	Fl	<b>Direction</b> Up			
Lining		Year laid	Cat A	Pre-clean Y	Last clear	ned	
General note see sh	eet 75 for reverse setup	<del></del>		Structural	Service	CC	at access
Location note				Marchen von			

Distance (Ft) Description (Showing all categories) 78 (Upstream, Depth = 4.10 Ft) Tape end: 305.0 Survey abandoned [LATERAL REDUCING PIPE SIZE]

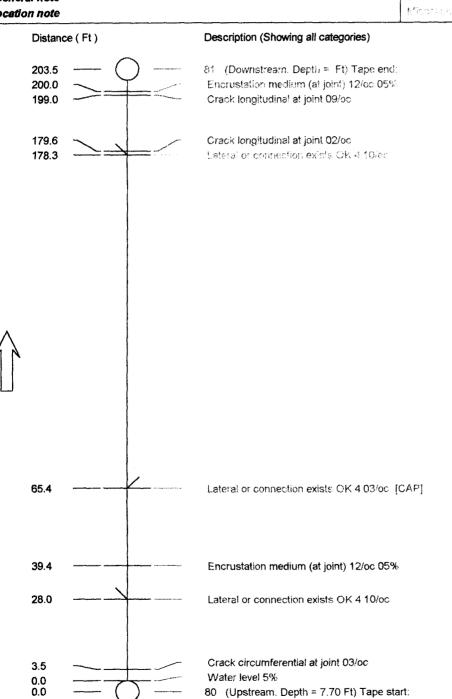
24.1

Lateral or connection exists OK 4 09/oc

Water level 5% 79 (Downstream. Depth = Ft) Tape start:

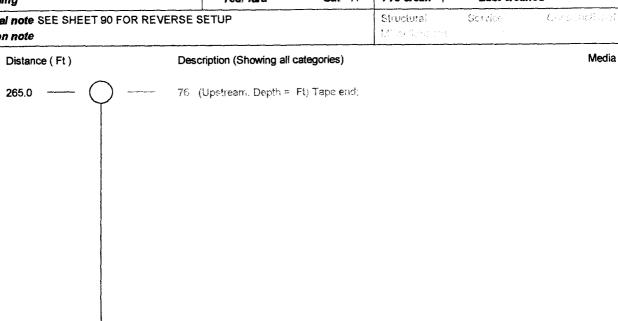
# for MID-COUNTY SERVICES, INC.

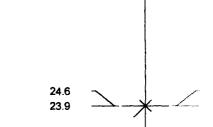
Job C	ontract	Cas	sette 10	Surveyed On 08/	17/2004	Sheet 78	
Operator BMN	Van Reference	Weather	Dry				
Road Name 3R	DAVE. N.	Place	Name TIE	RRA VERDE			
Location type Ligh	t road (rura! roads with lig!	hter traffic,town & city I	back streets)				
Surface							
Survey purpose San	ple survey to determine a	sset condition					
Pipe Use Foul		Schedule length	203.5 Ft	From 80		Depth	7.70 <b>F</b> t
Shape Circular		Size 8 by	ins	<b>To</b> 81		Depth	Ft
Material Vitrified cl	ау	Joint spacing	Ft	Direction Do	wn		
Lining		Year laid	Cat A	Pre-clean Y	Last	cleaned	
General note				Structurai	Service	Çes	selvere krim
Location note				Micorlandau			



for MID-COUNTY SERVICES, INC.

Job (	Contract	Cas	sette 10	Surveyed On 08/1	7/2004	Sheet 79	
Operator BMN	Van Reference	Weather	Dry				
Road Name 3R	Place	e Name TIEF	RRA VERDE				
Location type Ligi	nt road (rura! roads with lig	hter traffic,town & city l	back streets)				
Surface							
Survey purpose Sar	nple survey to determine a	sset condition			·		
Pipe Use Foul		Schedule length	265.0 Ft	From 75		Depth	5.00 Ft
Shape Circular		Size 8 by	ins	<b>To</b> 76		Depth	Ft
Material Vitrified c	lay	Joint spacing	Ft	<b>Direction</b> Up			
Lining		Year laid	Cat A	Pre-clean Y	Last c	leaned	
General note SEE S	HEET 90 FOR REVERSE	SETUP		Structural	Scrales	Cent	s Joch Je
Location note				IRI oxillations			





Survey abandoned [LATERAL REDUCUNG PIPE SIZE] Lateral or connection exists OK 4 09/oc

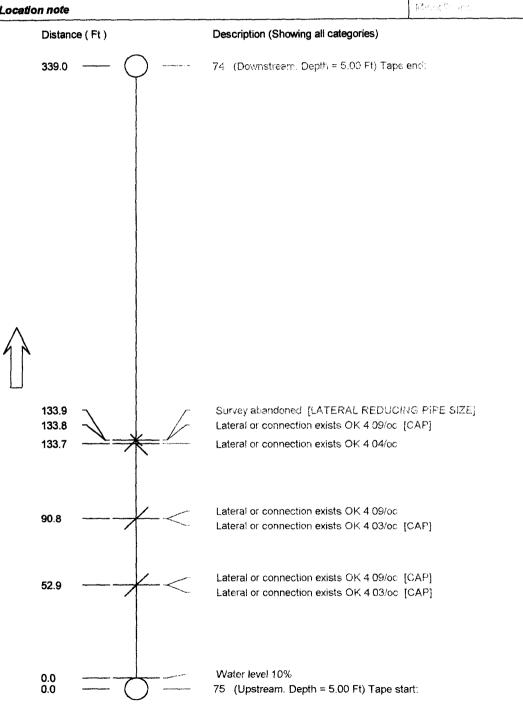
0.0

Water level 5%

75 (Downstream. Depth = 5.00 Ft) Tape start:

#### for MID-COUNTY SERVICES, INC.

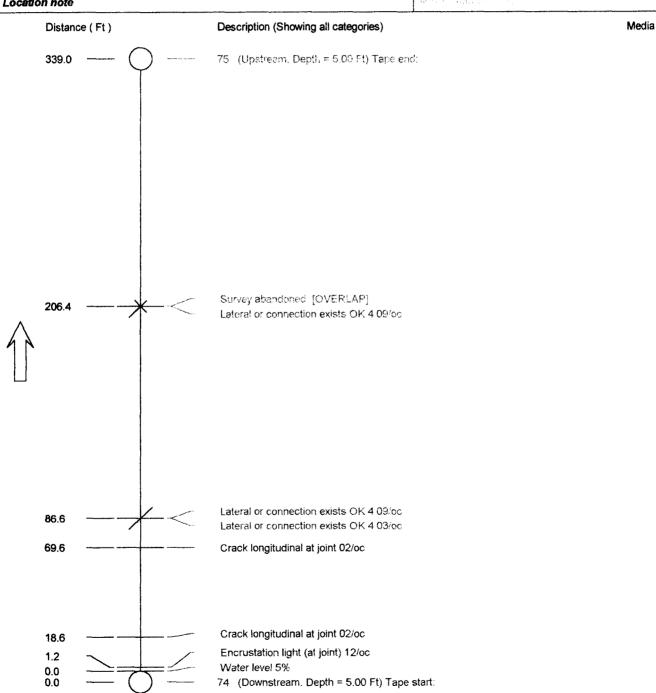
Job C	ontract	Cas	sette 10	Surveyed On 0	8/17/2004	Sheet 80	
Operator BMN	Van Reference	Weather	Dry				
Road Name 3RI	DAVE. N.	Place	e Name TIE	RRA VERDE			
Location type Ligh	it road (rural roads with ligh	nter traffic,town & city	back streets)	•			
Surface							
Survey purpose Sam	ple survey to determine as	set condition					
Pipe Use Foul	_	Schedule length	339.0 <i>Ft</i>	From 75		Depth	5.00 <b>Ft</b>
Shape Circular		Size 8 by	ins	To 74		Depth	5.00 <b>Ft</b>
Material Vitrified cl	ау	Joint spacing	Ft	Direction D	own		
Lining		Year laid	Cat A	Pre-clean Y	Last	cleaned	
General note SEE S	HEET 81 FOR REVERSE	SET UP		Structura <sup>‡</sup>	Service	Os.	autominist e
Location note				Minural Chilland			



#### for MID-COUNTY SERVICES, INC.

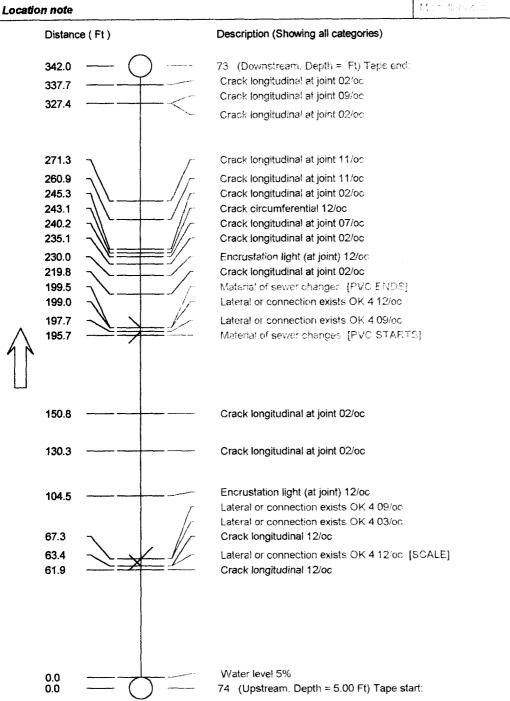
Joh C	contract	Cas	ssette 10	Surveyed On 08/17	7/2004 <b>Sheet</b> 81	l
Operator BMN	Van Reference	Weather	Dry			
Road Name 3R	D AVE. N.	Place	e Name TIE	RRA VERDE		
Location type Ligh	nt road (rural roads with ligh	nter traffic,town & city	back streets)	1		
Surface						
Survey purpose San	ple survey to determine as	sset condition				
Pipe Use Foul		Schedule length	339.0 <i>Ft</i>	From 74	Depth	5.00 <b>F</b> £
Shape Circular		Size 8 by	ins	<b>To</b> 75	Depth	5.00 Ft
Material Vitrified of	ay	Joint spacing	Ft	Direction Up		
Lining		Year laid	Cat A	Pre-clean Y	Last cleaned	
General note SEE S	HEET 80 FOR REVERSE	SET UP		Structura!	Service Ca	enciruação a
Location note				(Albert Tables on		

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# for MID-COUNTY SERVICES, INC.

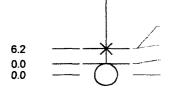
Job C	Contract	Cas	sette 10	Surveyed On 08/	7/2004	Sheet 82	
Operator BMN	Van Reference	Weather	Dry				
Road Name 3R	Place	Name TIE	RRA VERDE				
Surface	nt road (rural roads with ligit nple survey to determine as		oack streets)	)			
Pipe Use Foul Shape Circular		Schedule length Size 8 by	ins	From 74 To 73		Depth Depth	5.00 Ft Ft
<b>Material</b> Vitrified c	lay	Joint spacing Year laid	Ft Cat A	Direction Dov		cleaned	
General note TAPE	11 STARTS AT 203'	<u> </u>		Structural Months to con-	Service	Cr	ad udioda



#### for MID-COUNTY SERVICES, INC.

Job C	ontract	Cas	isette 11	Surveyed On 08/17	7/2004 <b>She</b>	<b>e</b> t 83	
Operator BMN	Van Reference	Weather	Dry				
Road Name ALL	EY	Place	e Name TIE	RRA VERDE			
Location type Ligh	t road (rural roads with ligh	nter traffic,town & city I	back streets	)			
Surface							
Survey purpose Sam	ple survey to determine as	sset condition					
Pipe Use Foul		Schedule length	250.0 <i>Ft</i>	From 64		Depth	Ft
Shape Circular		Size 8 by	ins	<b>To</b> 63	E	Depth	5.00 Ft
Material Vitrified cl	ay	Joint spacing	Ft	<b>Direction</b> Down	1		
Lining		Year laid	Cat A	Pre-clean Y	Last clean	ied	
General note SEE S	HEET 67 FOR REVERSE	SETUP		Structural	Service	Costi	atarta.a
Location note				Table to the control			

Media Distance (Ft) Description (Showing all categories) 250.0 63 (Downstream, Depth = 5.00 Ft) Tape end:



Survey abandoned [LATERAL REDUCING PIPE SIZE]

Lateral or connection exists OK 9

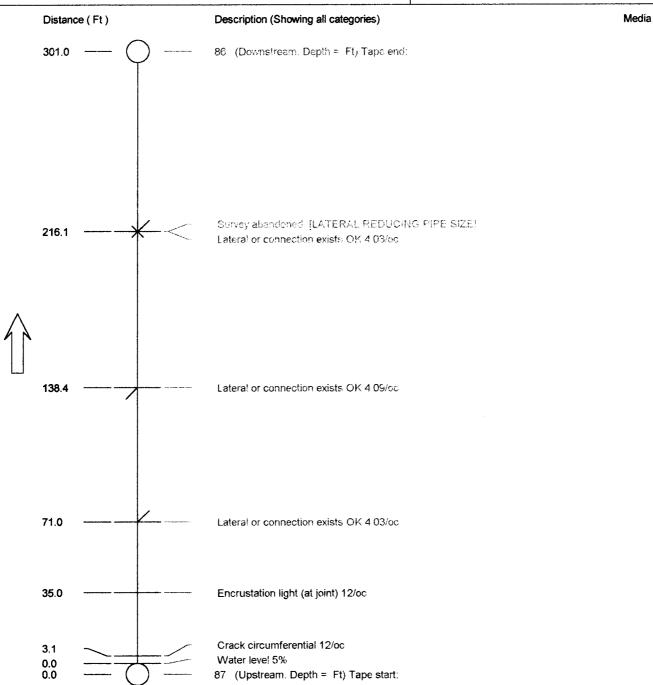
Water level 0%

64 (Upstream. Depth = Ft) Tape start:

for MID-COUNTY SERVICES, IN	C
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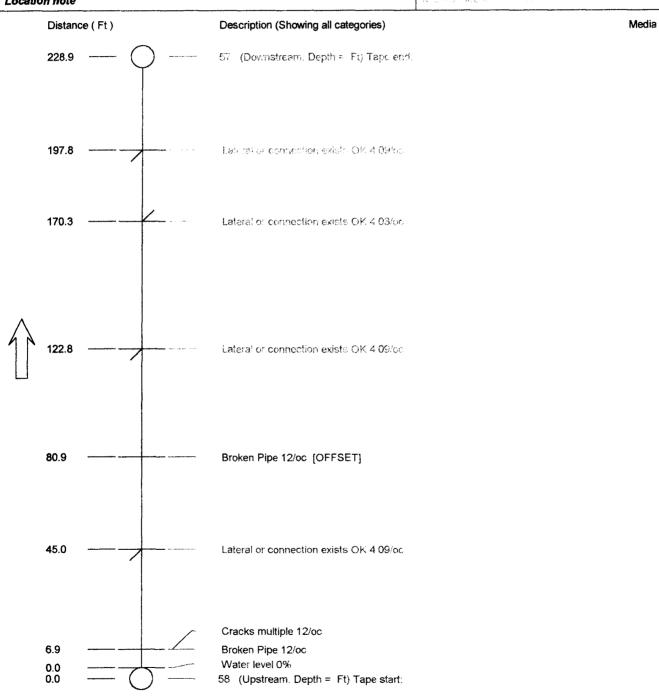
Job Contract		Cas	Cassette 11		/2004 <b>Shee</b> t 8	4
Operator BMN	Van Reference	Weather	Dry			
Road Name 3RD ST. W.		Place				
Surface	ht road (rural roads with ligh nple survey to determine as		oack streets)			
Pipe Use Foul		Schedule length	301.0 <i>Ft</i>	From 87	Depth	) Ft
Shape Circular		Size 8 by	ins	<b>To</b> 86	Depth	r Ft
Material Vitrified o	lay	Joint spacing	Ft	<b>Direction</b> Down		
Lining		Year laid	Cat A	Pre-clean Y	Last cleaned	
General note SEE SHEET 89 FOR REVERSE SETUP  Location note			Structural Michaell, proper		nristi, sediner	

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#### for MID-COUNTY SERVICES, INC.

Job Contract		Cassette 11		Surveyed On 08	Surveyed On 08/17/2004		
Operator BMN	Van Reference	Weather Dry					
Road Name 1ST ST, W.		Place	Place Name TIERRA VERDE				
<b>Location type</b> Ligi	nt road (rural roads with ligh	nter traffic,town & city I	b <b>ack street</b> s)	)			
Surface							
Survey purpose San	nple survey to determine as	set condition					
Pipe Use Foul		Schedule length	228.9 Ft	From 58		Depth	Ft
Shape Circular		Size 8 by	ins	<b>To</b> 57		Depth	Ft
Material Vitrified o	iay	Joint spacing	Ft	Direction D	own		
Lining		Year laid	Cat A	Pre-clean Y	Last	cleaned	
General note				Structura!	Service	(and	$x_{i}^{1}(\{x,x_{i}\})$
Location note				William Brazilia			



#### for MID-COUNTY SERVICES, INC.

Media

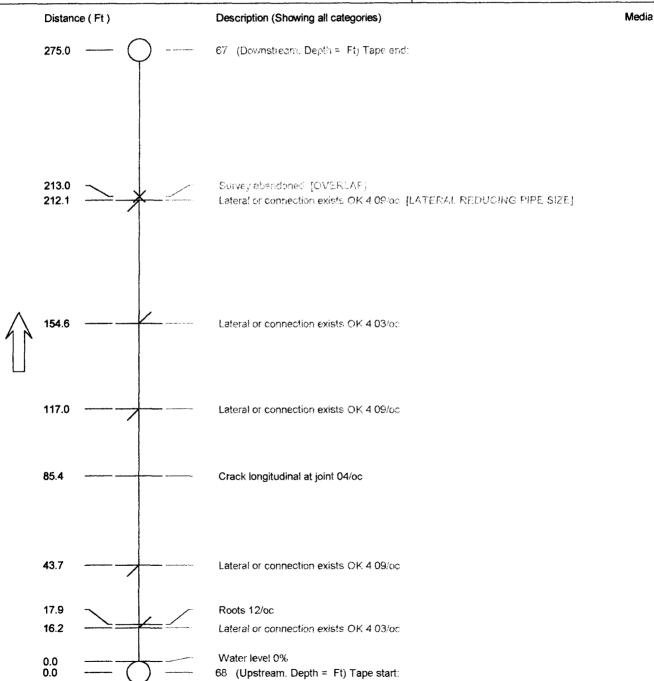
Job Contract Operator BMN Van Reference Road Name TIERRA VERDE		Cassette 11 Weather Dry Place Name		Surveyed On 08/17/2004		Sheet 86	
Location type Ligh	t road (rural roads with ligi	hter traffic,town & city	back streets)				
Surface							
Survey purpose Sam	ple survey to determine as	sset condition					
Pipe Use Foul		Schedule length	275.0 <b>Ft</b>	From 67		Depth	Ft
Shape Circular		Size 8 by	ins	<b>To</b> 68		Depth	Ft
Material Vitrified cl	ay	Joint spacing	Ft	<b>Direction</b> Up			
Lining		Year laid	Cat A	Pre-clean Y	Last o	cleaned	
General note SEE SHEET 88 FOR REVERSE SETUP			Structurei	Service	(,1)-61	- Military	
Location note				Millocourer o	¥1. 1		

Distance (Ft) Description (Showing all categories) 68 (Upstream, Depth = Ft) Tapa end: Survey abandoned [LETERAL REDUCING PIPE SIZE] Lateral or connection exists OK 4 03/oc Water level 5% 67 (Downstream. Depth = Ft) Tape start:0000

# for MID-COUNTY SERVICES, INC.

Job Contract		Cassette 11		Surveyed On 08/17/2004		Sheet 87	
Operator BMN	Van Reference	Weather	Dry				
Road Name 2N	Place	e Name TIE	RRA VERDE				
Location type Ligi	nt road (rural roads with ligh	hter traffic,town & city	back streets	)			
Surface							
Survey purpose San	aple survey to determine as	sset condition					
Pipe Use Foul		Schedule length	275.0 <i>Ft</i>	From 68		Depth	Ft
Shape Circular		Size 8 by	ins	<b>To</b> 67		Depth	Ft
<i>Material</i> Vitrified c	ay	Joint spacing	Ft	Direction D	own		
Lining		Year laid	Cat A	Pre-clean Y	Last	cleaned	
General note SEE SHEET 86 FOR REVERSE SETUP			Structural	Scryica	1475 3	ا يەلكىي	
Location note				This peaking in a			

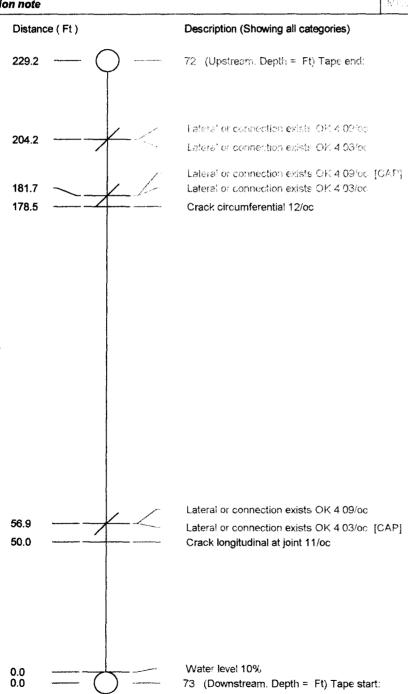
X



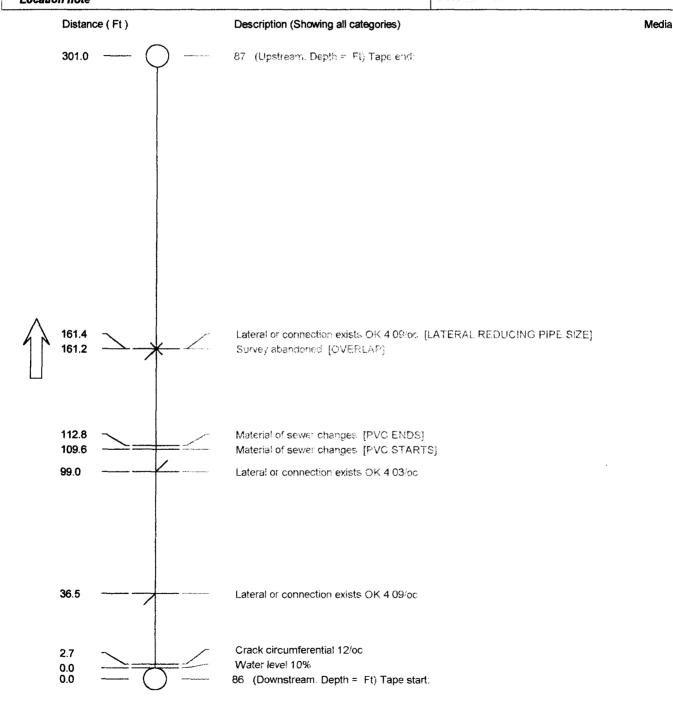
## Pipe Graphic Report of PLR 72 X

#### for MID-COUNTY SERVICES, INC.

Job C	contract	Cas	sette 11	Surveyed On 08/1	8/2004	Sheet 88	
Operator BMN	Van Reference	Weather	Dry				
Road Name 3R	D AVE. N.	Place	Name TIE	RRA VERDE			
Location type Ligh	nt road (rural roads with ligh	nter traffic,town & city I	back streets)	•			
Surface							
Survey purpose San	nple survey to determine as	set condition					
Pipe Use Foul		Schedule length	229.2 <b>F</b> t	From 73		Depth	Ft
Shape Circular		Size 8 by	ins	<b>To</b> 72		Depth	Ft
Material Vitrified cl	ay	Joint spacing	Ft	<b>Direction</b> Up			
Lining	Year laid	Year laid Cat A		Last cleaned			
General note				Structura'	Sarvice	Qc (ep)	uplion.
Location note				Mittacite autoric			



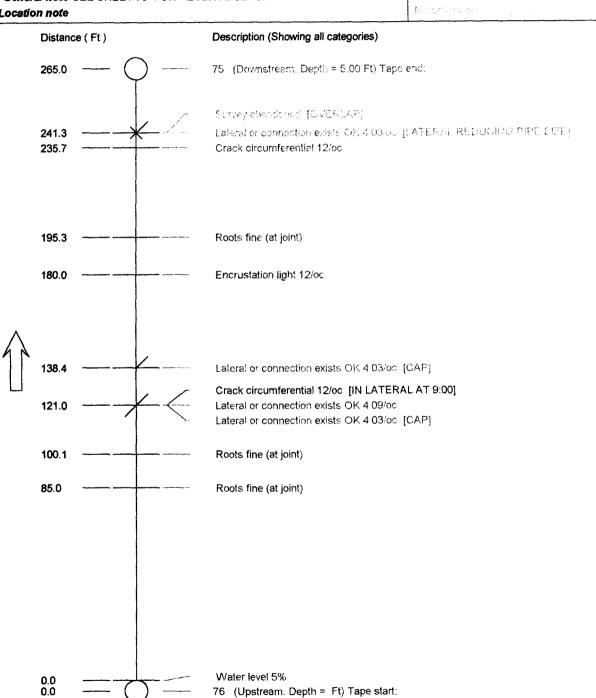
Job	Contract	Cas	sette 11	Surveyed On 08/18	3/2004 <b>Sheet</b> 89	
Operator BMN	Van Reference	<b>Weather</b> Dry				
Road Name	3RD ST. W.	Place	e Name TIE	RRA VERDE		
Location type	Light road (rural roads with ligi	hter traffic,town & city	back streets)			
Surface						
Survey purpose	Sample survey to determine as	sset condition				
Pipe Use Foul		Schedule length	301.0 <i>Ft</i>	From 86	Depth	F
Shape Circul	ar	Size 8 by	ins	<b>To</b> 87	Depth	F
<b>Material</b> Vitrifie	d clay	Joint spacing	Ft	<b>Direction</b> Up		
Lining		Year laid	Cat A	Pre-clean Y	Last cleaned	
General note SE	E SHEET 84 FOR REVERSE	SETUP		Structural	Service Cors	Logier
l ocation note				Missississ as		



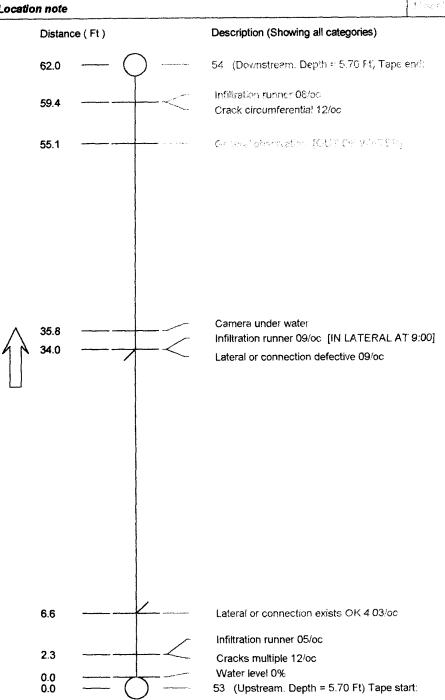
## Pine Graphic Report of PLR 76

### for MID-COUNTY SERVICES, INC.

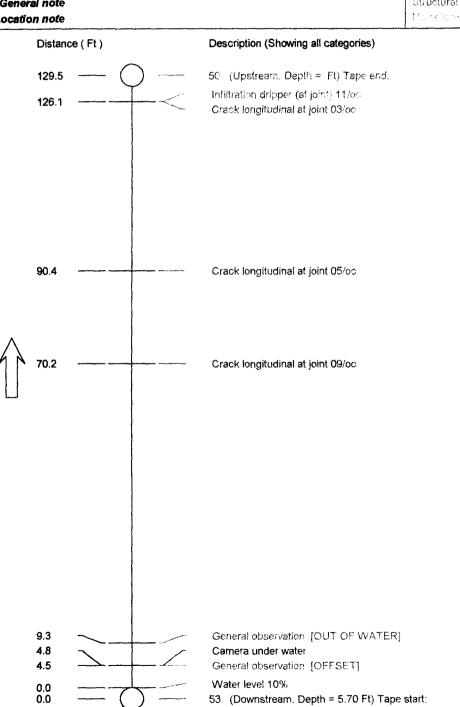
Pipe Graphic Rep	port of PLR 76 X	for MI	D-COUN	TY SERVICES, INC.	
Job	Contract	Cass	ette 11	Surveyed On 08/18/2004	4 Sheet 90
Operator BMN	Van Reference	Weather [	Ory		
Road Name	3RD AVE. N.	Place	Name TIE	RRA VERDE	
Surface	Light road (rural roads with lig Sample survey to determine a		ack streets)		
Pipe Use Foul		Schedule length	265.0 <b>Ft</b>	From 76	Depth Ft
Shape Circula	ar	Size 8 by	ins	<b>To</b> 75	Depth 5.00 Ft
<b>Material</b> Vitrifie	ed clay	Joint spacing	Ft	<b>Direction</b> Down	
Lining		Year laid	Cat A	Pre-clean Y La	est cleaned
General note SE	E SHEET 79 FOR REVERS	E SETUP		Structural Serv	in Constitution



Job	Contract	Cassette 11		Surveyed On 08/18/2004	Sheet 91	
Operator BMN	Van Reference	Weather Dry		_		
Road Name	7TH AVE. N.	Place Name	TIER	RA VERDE		
Location type	Light road (rural roads with ligh	nter traffic,town & city back stree	ets)			
Surface						
Survey purpose	Sample survey to determine as	sset condition				
Pipe Use Foul		Schedule length 62.0	Fŧ	From 53	Depth	5.70 Ft
Shape Circu	lar	Size 8 by ins		<b>To</b> 54	Depth	5.70 <b>Ft</b>
Shape Circu Material Vitrifi		Size 8 by ins Joint spacing Ft		To 54  Direction Down	Depth	5.70 <b>F</b> t
•		-	Α	Direction Down	Depth cleaned	5.70 <b>F</b> t
<b>Material</b> Vitrifi		Joint spacing Ft	Α	Direction Down	cleaned	5.70 <b>F</b> t



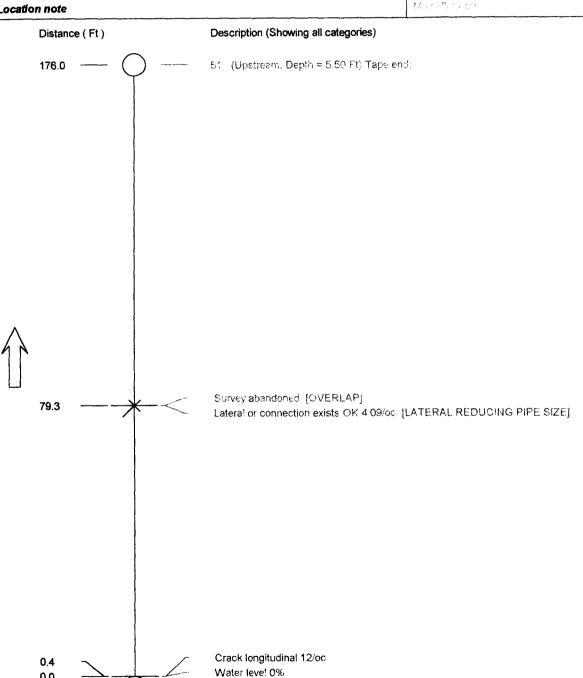
Job	Contract	Cas	sette 11		Surveyed On 08/18	3/2004	Sheet 92	
Operator BMN	Van Reference	Weather	Weather Dry					
Road Name	7TH AVE. N.	Place	e Namo T	IER	RA VERDE			
Location type	Light road (rural roads with ligh	nter traffic,town & city	back stree	ts)				
Surface								
Survey purpose	Sample survey to determine as	sset condition						
Pipe Use Foul		Schedule length	129.5 <b>F</b>	t	From 53		Depth	5.70 F
Shape Circul	ar	Size 8 by	ins		<b>To</b> 50		Depth	F
<b>Material</b> Vitrifie	d clay	Joint spacing	Ft		<b>Direction</b> Up			
Lining		Year laid	Cat	Α	Pre-clean Y	Last	cleaned	
General note	······································				Structural	Service	Cor	reb artion
Location note					Ms. relactivour			



# Pipe Graphic Report of PLR 51 X

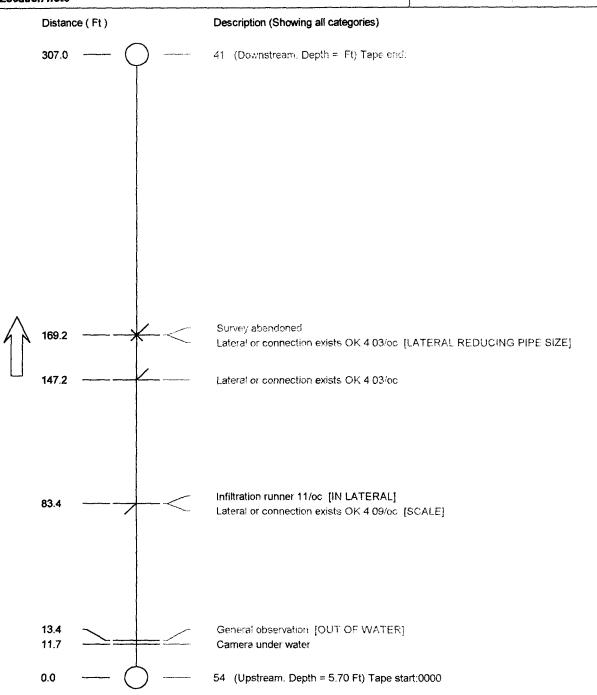
### for MID-COUNTY SERVICES, INC.

Job C	Contract	Cas	ssette 11	Surveyed On 08/1	8/2004 <b>\$</b>	Sheef 93	
Operator BMN	Van Reference	Weather	Dry				
Road Name 8T	HAVE N	Place	e Name TIEF	RRA VERDE			
<b>Location type</b> Ligi	nt road (rural roads with ligh	hter traffic,town & city	back streets)				
Surface							
Survey purpose San	nple survey to determine as	sset condition					
Pipe Use Foul		Schedule length	176.0 <b>Ft</b>	From 50		Depth	Ft
Shape Circular		Size 8 by	ins	<b>To</b> 51		Depth	5.50 <b>F</b> t
Material Vitrified c	lay	Joint spacing	Ft	<b>Direction</b> Up			
Lining		Year laid	Cat A	Pre-clean Y	Last cle	aned	
General note SEE S	HEET 57 FOR REVERSE	SETUP		Structure!	Scivice	€±7	stresii ne
Location note				\$\$47.45°00.00°			

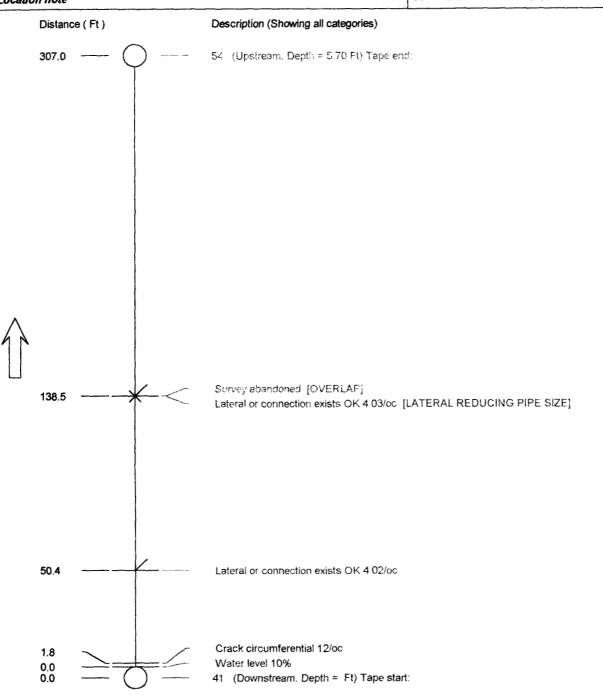


50 (Downstream, Depth = Ft) Tape start:

Job C	Contract	Cass	ette 11	Surveyed On 08/1	8/2004	4 Sheet 94	
Operator BMN	Van Reference	Weather [	Ory				
Road Name 7T	H AVE. N.	Place	Name TIE	RRA VERDE			
Location type Ligi	nt road (rural roads with ligh	ter traffic,town & city ba	ack streets)				
Surface							
Survey purpose San	nple survey to determine as	set condition					<u></u>
Pipe Use Foul		Schedule length	307.0 <i>Ft</i>	From 54		Depth	5.70 <b>F</b> t
Shape Circular		Size 8 by	ins	To 41		Depth	Ft
Material Vitrified o	lay	Joint spacing	Ft	<b>Direction</b> Dow	n		
Lining		Year laid	Cat A	Pre-clean Y	Last	deaned	
Company moto SEE S	HEET 95 FOR REVERSE	CETUD		Structure!	Sitzion	5.53	e food om
General note SEE S	DUE 1 30 LOK KEVEKSE	OE TOP		Oli Columbia	A CANADA	400	



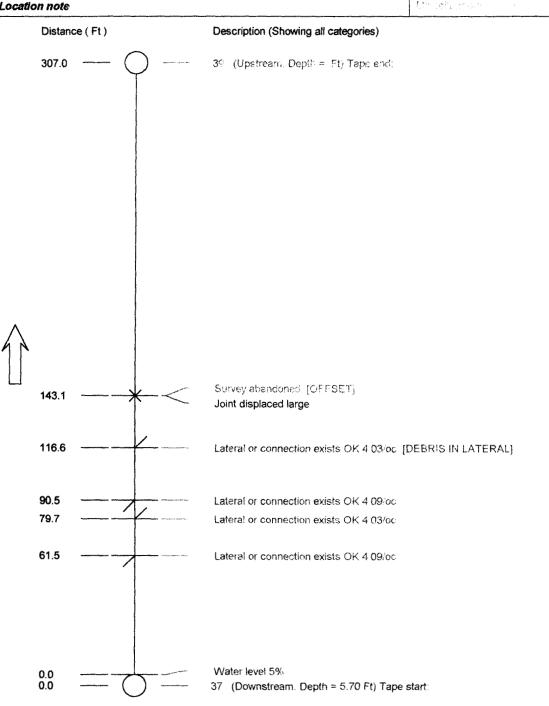
Job	Contract	Cas	sette 12	Surveyed On 08/1	18/2004 <b>Sh</b>	eet 95
Operator BMN	Van Reference	Weather	Dry			
Road Name	7TH AVE. N.	Piace	Name TIE	RRA VERDE		
Location type	Light road (rural roads with ligh	nter traffic,town & city t	oack streets)			
Surface						
Survey purpose	Sample survey to determine as	sset condition				
Pipe Use Foul		Schedule length	307.0 <b>Ft</b>	From 41		Depth Fi
Shape Circula	ar	Size 8 by	ins	<b>To</b> 54		<b>Depth</b> 5.70 Ft
Material Vitrifie	d clay	Joint spacing	Ft	Direction Up		
Lining	·	Year laid	Cat A	Pre-clean Y	Last clea	ned
General note SE	E SHEET 94 FOR REVERSE	SETUP		Structural	Se; vice	Canadardiun



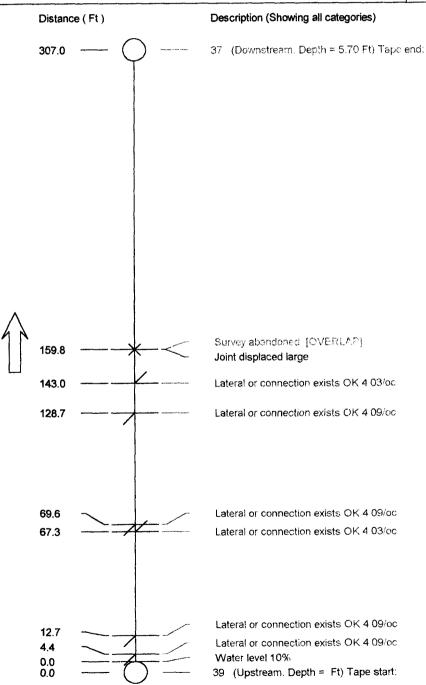
## Pipe Graphic Report of PLR 39 X

### for MID-COUNTY SERVICES, INC.

Job C	ontract	Cas	ssette 12	Surveyed On 08/1	8/2004	Sheet 96	
Operator BMN	Van Reference	Weather	Dry				
Road Name 7TH	AVE N	Place	e Name TIE	RRA VERDE			
Location type Ligh	t road (rura! roads with lig!	hter traffic,town & city	back streets)	<b>;</b>			
Surface							
Survey purpose Sam	ple survey to determine as	sset condition					
Pipe Use Foul		Schedule length	307.0 <i>Ft</i>	From 37		Depth	5.70 Ft
Shape Circular		Size 8 by	ins	To 39		Depth	Ft
Material Polyvinly of	chloride	Joint spacing	Ft	Direction Up		-	
Lining		Year laid	Cat A	Pre-clean Y	Last	deaned	
General note SEE SI	HEET 97 FOR REVERSE	SETUP		Structural	Set is:	<i>2</i> 7.	era Mas.
Location note				Party series			



Job	Contract	Cassette 1	2	Surveyed On 08/18/2004	Sheet 97
Operator BMN	Van Reference	Weather Dry			
Road Name	7TH AVE N	Place Name	TIER	RA VERDE	
Location type	Light road (rural roads with ligh	nter traffic,town & city back str	eets)		
Surface					
Survey purpose	Sample survey to determine as	sset condition			
Pipe Use Foul		Schedule length 307.0	Ft	From 39	Depth Ft
Shape Circui	ar	Size 8 by ins		<b>To</b> 37	Depth 5.70 Ft
		1		1	
<b>Material</b> Polyv	nly chloride	Joint spacing Ft		<b>Direction</b> Down	
Material Polyv Lining	nly chloride		ŧΑ		t cleaned
Lining	inly chloride	Year laid Ca	ŧ A		



# Pipe Graphic Report of PLR 40

### for MID-COUNTY SERVICES. INC.

Media

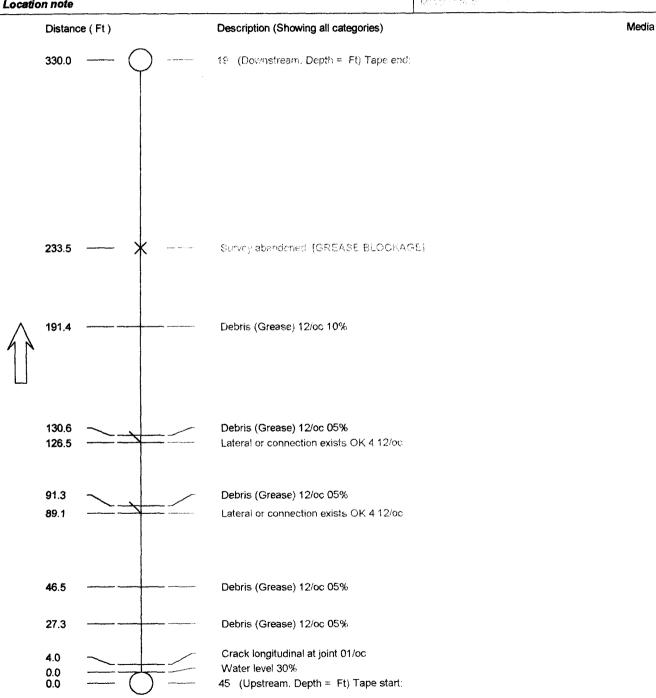
Job	Contract	Cassette	12	Surveyed On 08/18/2004	Sheet 98
Operator BMN	Van Reference	Weather Dry			
Road Name 6T	H ST	Place Nan	16 TIEF	RRA VERDE	
Location type Lig	ht road (rural roads with ligh	nter traffic,town & city back	streets)		
Surface					
Survey purpose Sar	mple survey to determine as	sset condition			
Pipe Use Foul		Schedule length 196.	9 <i>Ft</i>	From 46	<b>Depth</b> 5.70 <b>Ft</b>
Shape Circular		Size 8 by i	ns	<b>To</b> 19	Depth: Ft
<b>Material</b> Vitrified o	alay	Joint spacing F	t	<b>Direction</b> Down	
Lining		Year laid	Cat A	Pre-clean Y Las	st cleaned
General note SEE	SHEET 53			Structural Servi:	x Constructions

Distance (Ft) Description (Showing all categories) 19 (Downstream, Depth = Ft) Tape end: Lateral or connection exists OK 4 03/oc Lateral or connection exists OK 4 09/oc 25.2 Water level 0% 46 (Upstream. Depth = 5.70 Ft) Tape start:

## Pipe Graphic Report of PLR 45 X

### for MID-COUNTY SERVICES, INC.

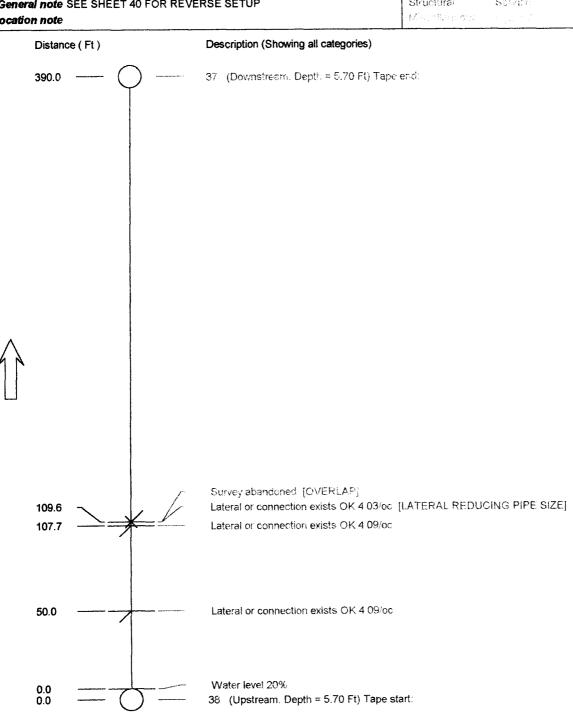
Job Co	ntract	Cas	sette 12	Surveyed On 08/	18/2004 <b>S</b>	heet 99	
Operator BMN	Van Reference	Weather	Dry				
Road Name MON	TE CRISTO	Place	Name TIE	RRA VERDE			
Location type Light	road (rural roads with ligh	iter traffic,town & city b	oack streets	•			
Surface							
Survey purpose Samp	le survey to determine as	set condition					
Pipe Use Foul		Schedule length	330.0 Ft	From 45		Depth	Ft
Shape Circular		Size 8 by	ins	<b>To</b> 19		Depth	Ft
Material Vitrified cla	1	Joint spacing	Ft	Direction Do	Wh		
Lining		Year laid	Cat A	Pre-clean Y	Last clea	aned	
General note SEE SH	EET 102			Structural	Servio	Com s	. uchouz!
Location note				Missis Core on			



# Pipe Graphic Report of PLR 38 X

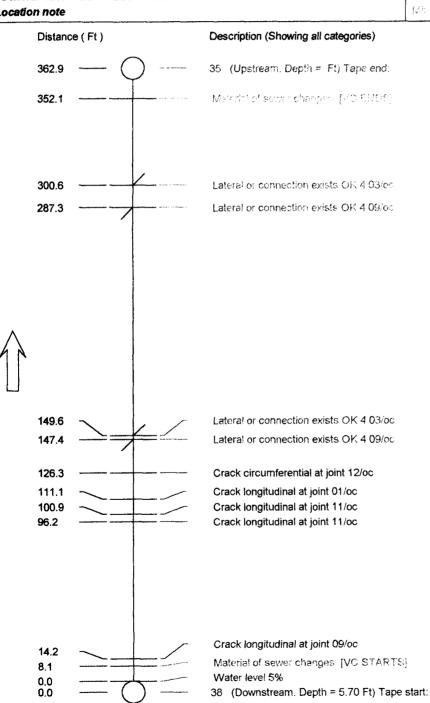
# for MID-COUNTY SERVICES, INC.

Job C	Contract	Cas	sette 12	Surveyed Or	08/19/2004	Sheet 100	0
Operator BMN	Van Reference	Weather	Dry				
Road Name 4TI	HST.	Place	e Name TIE	RRA VERDE			
Location type Ligh	nt road (rural roads with ligh	hter traffic,town & city I	back streets)				
Surface							
Survey purpose San	nple survey to determine as	sset condition					
Pipe Use Foul		Schedule length	390.0 <i>Ft</i>	From 38		Depth	5.70 <i>Ft</i>
Shape Circular		Size 8 by	ins	<b>To</b> 37		Depth	5.70 <b>Ft</b>
Material Vitrified o	ay	Joint spacing	Ft	Direction	Down		
Lining		Year laid	Cat A	Pre-clean	Y Las	st cleaned	
General note SEE S	HEET 40 FOR REVERSE	SETUP		Structural	Sord	tri C.C.	as de Glastie
Location note				Mariena	50 C		



#### for MID-COUNTY SERVICES, INC.

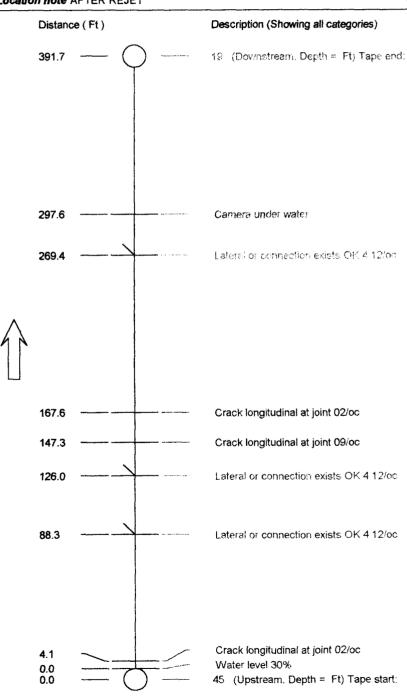
Job C	ontract	Cas	sette 12	Surveyed On 08/1	9/2004 <b>Shee</b> t 10	1
Operator BMN	Van Reference	Weather	Dry			
Road Name 7Ti	HAVE. N.	Place	e Name TIEI	RRA VERDE		
<b>Location type</b> Ligh	nt road (rural roads with ligh	ter traffic,town & city l	back streets)			
Surface						
Survey purpose San	ple survey to determine as	set condition				
Pipe Use Foul		Schedule length	362.9 Ft	From 38	Depth	5.70 <i>Ft</i>
Shape Circular		Size 8 by	ins	<b>To</b> 35	Depth	Ft
Material Vitrified cl	ау	Joint spacing	Ft	<b>Direction</b> Up		
<b>Lining</b> Resin		Year laid	Cat A	Pre-clean Y	Last cleaned	
General note VIDEO	ALSO IN REVERSE			Structural	Servior Co	nchachas.
Location note				Missiphances		



## Pipe Graphic Report of PLR 45

# for MID-COUNTY SERVICES, INC.

Job C	ontract	Cas	sette 12	Surveyed On	08/19/2004	Sheet 102	
Operator BMN	Van Reference	Weather	Dry				
Road Name MC	NTE CRISTO	Place	e Name TIE	RRA VERDE			
Location type Ligh	nt road (rural roads with ligh	nter traffic,town & city I	back streets	)			
Surface							
Survey purpose San	ple survey to determine as	sset condition					
Pipe Use Foul		Schedule length	391.7 <i>Ft</i>	From 45		Depth	Ft
Shape Circular		Size 8 by	ins	<b>To</b> 19		Depth	Ft
Material Vitrified c	ау	Joint spacing	Fl	Direction	Down		
Lining		Year laid	Cat A	Pre-clean	Y Last	cleaned	
General note SEE S	HEET 99/ VIDEO ALSO IN	REVERSE		Structural	Service	Gart	Jolland
				1	9		



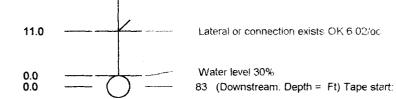
#### Pipe Graphic Report of PLR 73 X

### for MID-COUNTY SERVICES, INC.

Media

Job C	ontract	Cas	sette 13	Surveyed On 08/19	/2004 Sheet 10	03
<b>Operator</b> BMN	Van Reference	Weather	Dry			
Road Name MA	DONNA BLVD.	Place	e Name TIER	RRA VERDE		
Location type Ligh	it road (rural roads with ligh	iter traffic,town & city	back streets)			
Surface						
Survey purpose San	ple survey to determine as	set condition				
Pipe Use Foul		Schedule length	145.9 <i>Ft</i>	From 83	Depth	Pt .
Shape Circular		Size 12 by	ins	<b>To</b> 73	Depth	. Ft
Material Vitrified cl	ay	Joint spacing	Pt	Direction Up		
Lining	•	Year laid	Cat A	Pre-clean Y	Last cleaned	
General note VIDEO	ALSO IN REVERSE/HEA	VY FLOW FEOM FOR	RCE MAIN	Structura:	Schilice Co	onet eral in.
Location note HARD				Michelly ments		

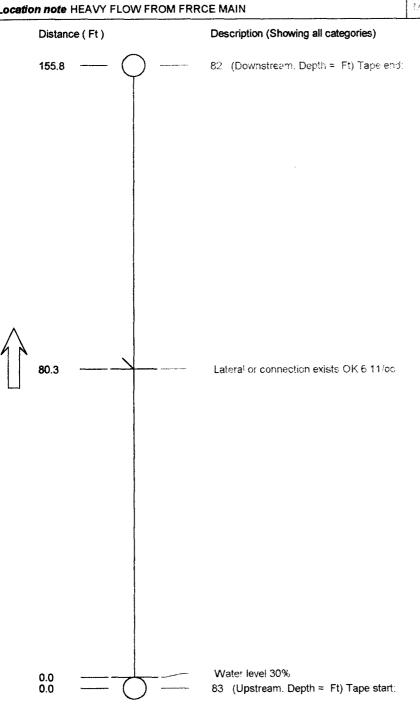
Distance (Ft) Description (Showing all categories) 73 (Upstream, Depth = Ft) Tape end:



# Pipe Graphic Report of PLR 83 X

# for MID-COUNTY SERVICES, INC.

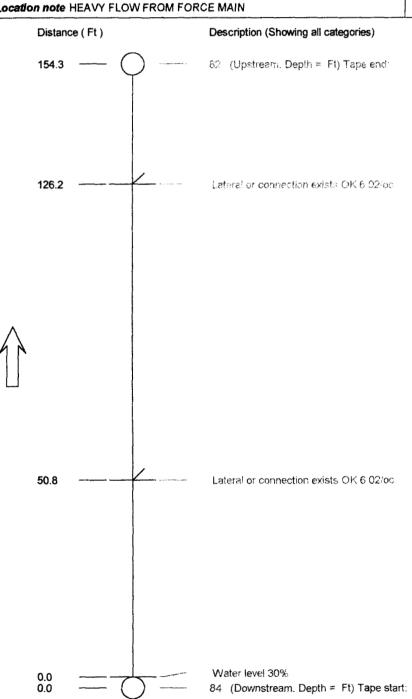
Job C	Contract	Cas	ssette 13	Surveyed On 08	3/19/2004	Sheet 104	
Operator BMN	Van Reference	Weather	Dry				
Road Name MA	DONNA BLVD.	Plac	e Name TIEI	RRA VERDE			
Location type Ligh	nt road (rural roads with ligh	nter traffic,town & city	back streets)				
Surface							
Survey purpose San	nple survey to determine as	set condition					·····
Pipe Use Foul		Schedule length	155.8 <i>Ft</i>	From 83		Depth	Ft
Shape Circular		Size 12 by	ins	<b>To</b> 82		Depth	Ft
Material Vitrified c	ay	Joint spacing	Ft	Direction D	own		
Lining		Year laid	Cat A	Pre-clean Y	Last	cleaned	
General note VIDEO	ALSO IN REVERSE			Structura!	Service	Cicare c	Balting:
Location note HEAV	Y FLOW FROM FRRCE M	AIN		Machinent			



## Pipe Graphic Report of PLR 82

### for MID-COUNTY SERVICES, INC.

Job C	Contract	Cas	ssette 13	Surveyed On 08/1	19/2004 <b>Sheet</b> 105	
Operator BMN	Van Reference	Weather	Dry			
Road Name MA	DONNA BLVD.	Place	e Name TIE	RRA VERDE		
Location type Ligi	nt road (rura! roads with ligi	hter traffic,town & city	back streets	)		
Surface						
Survey purpose San	nple survey to determine as	sset condition				
Pipe Use Foul		Schedule length	154.3 Ft	From 84	Depth	Ft
Shape Circular		Size 12 by	ins	<b>To</b> 82	Depth	Ft
Material Vitrified c	ay	Joint spacing	Ft	Direction Up		
Lining		Year laid	Cat A	Pre-clean Y	Last cleaned	
General note VIDEO	OLSO IN REVERSE			Structura:	Servict Con	nti ari mas

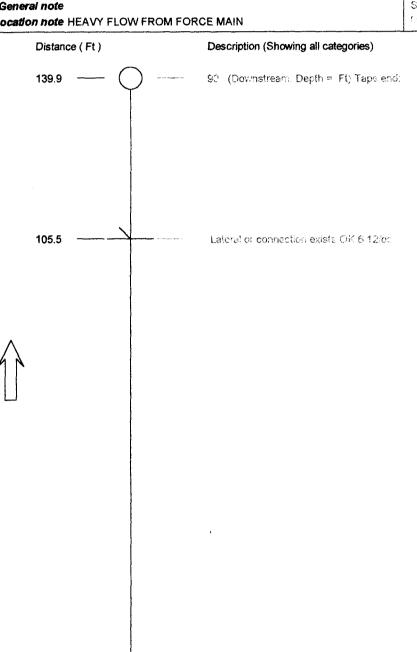


# Pipe Graphic Report of PLR 85 X

### for MID-COUNTY SERVICES, INC.

Media

Job C	Contract	Cas	ssette 13		Surveyed On 08/19/2	004 <b>Sheet</b> 106	
Operator BMN	Van Reference	Weather	Dry				
Road Name MA	DONNA BLVD.	Plac	e Name T	IER	RA VERDE		
Location type Ligh	nt road (rural roads with ligh	nter traffic,town & city	back stree	ts)			
Surface							
Survey purpose San	nple survey to determine as	sset condition					
Pipe Use Foul		Schedule length	139.9 <b>F</b>	ર્	From 85	Depth	Ft
Shape Circular		Size 12 by	ins		<b>To</b> 90	Depth	Ft
Material Vitrified of	ay	Joint spacing	Ft		Direction Down		
Lining		Year laid	Cat	Α	Pre-clean Y	Last cleaned	
General note					Structural Sc	atvice Cote	tructions
College Hore							

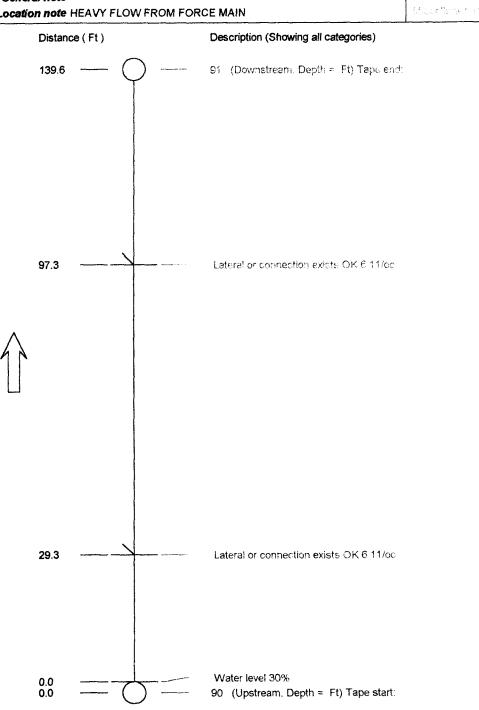


Water level 20%

# Pipe Graphic Report of PLR 90 X

## for MID-COUNTY SERVICES, INC.

Job C	Contract	Cas	ssette 13	Surveyed On C	8/19/2004	Sheet 107	
Operator BMN	Van Reference	Weather	Dry				
Road Name MA	DONNA BLVD.	Place	e Name TIE	RRA VERDE			
Location type Ligh	nt road (rural roads with ligh	nter traffic,town & city I	back streets)	ı			
Surface							
Survey purpose San	nple survey to determine as	sset condition					
Pipe Use Foul		Schedule length	139.6 <i>Ft</i>	From 90		Depth	Ft
Shape Circular		Size 12 by	ins	<b>To</b> 91		Depth	Ft
Material Vitrified c	ay	Joint spacing	Ft	Direction (	Down		
Lining		Year laid	Cat A	Pre-clean	( Last	cleaned	
General note				Structural	Service	Or had	. 180 - 180 <sup>1</sup>
Lacation mate UEAN	Y FLOW FROM FORCE M	AINI		Mark throng			



# Pipe Graphic Report of PLR 90 >

### for MID-COUNTY SERVICES, INC.

Job C	Contract	Cas	sette 13	Surveyed On 08/1	9/2004	Sheet 108	
Operator BMN	Van Reference	Weather	Dry				
Road Name MA	DONNA BLVD.	Place	Name TIE	RRA VERDE			
Location type Ligh	nt road (rural roads with lig!	nter traffic,town & city I	oack streets	)			
Surface							
Survey purpose San	nple survey to determine as	sset condition					
Pipe Use Foul		Schedule length	139.6 <i>Ft</i>	From 90		Depth	Ft
Shape Circular		Size 12 by	ins	<b>To</b> 91		Depth	Ft
Material Vitrified of	lay	Joint spacing	Ft	<b>Direction</b> Dov	vn		
Lining		Year laid	Cat A	Pre-clean Y	Last c	leaned	
General note		<u> </u>	···	Structura!	Setvica	Curr.	ar4kni
उनानवा गणा				ı			

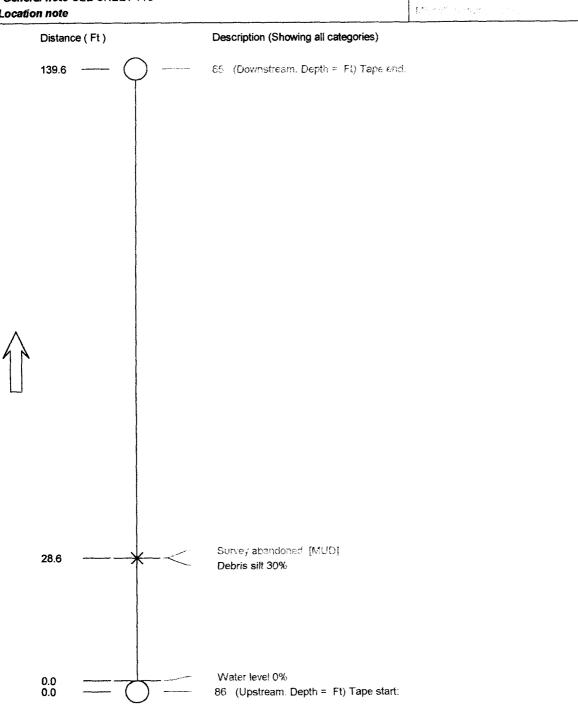
Description (Showing all categories) Distance (Ft) 91 (Downstream, Depth = Ft) Tape end: Infiltration runner (at joint) 11/oc 136.3 Crack longitudinal at joint 03/oc Crack circumferential at joint 12/oc 29.3 Water level 20%

90 (Upstream, Depth = Ft) Tape start:

# Pipe Graphic Report of PLR 80 X

# for MID-COUNTY SERVICES, INC.

Job (	Contract	Cas	ssette 13	Surveyed On	08/19/2004	<b>Sheet</b> 109	
Operator BMN	Van Reference	Weather	Dry				
Road Name 3R	D ST. W.	Place	e Name TIE	RRA VERDE			
Location type Ligi	ht road (rura! roads with ligh	iter traffic,town & city I	back streets	)			
Surface							
Survey purpose San	nple survey to determine as	set condition					
Pipe Use Foul		Schedule length	139.6 <i>Ft</i>	From 86		Depth	Ft
Shape Circular		Size 8 by	ins	<b>To</b> 85		Depth	Ft
Material Vitrified c	lay	Joint spacing	Ft	Direction	Down		
Lining	•	Year laid	Cat A	Pre-clean	Y Last	deaned	
General note SEE S	SHEET 113			Structural	Serves	Const	ante es



Pipe	Graphic	Report	OÍ	PLR	84	X
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for MID-COUNTY SERVICES, INC.

Media

Job C	Contract	Cas	sette 13		Surveyed On 08/20	0/2004	Sheet 110	
Operator BMN	Van Reference	Weather	Dry					
Road Name 3R	DAVE. N.	Plac	e Name Ti	ERI	RA VERDE			
Location type Ligh	nt road (rural roads with ligh	nter traffic,town & city	back street	s)				
Surface								
Survey purpose San	ple survey to determine as	set condition						
Pipe Use Foul		Schedule length	176.7 <b>F</b>	t	From 82		Depth	Ft
Shape Circular		Size 8 by	ins		To 81		Depth	Ft
Material Vitrified cl	ay	Joint spacing	Ft		Direction Up			
Lining	•	Year laid	Cat	Α	Pre-clean Y	Last	cleaned	
General note HARD	DEBRI AT MOUTH OF MI	H 81			Structural	SETVICE	Cour	vilk v
Location note					NAS CARSON			

Distance (Ft)

Description (Showing all categories)

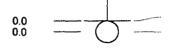
176.7

81 (Upstream Depth = Ft) Taps end:

172.5

Crack longitudinal at joint 10/oc





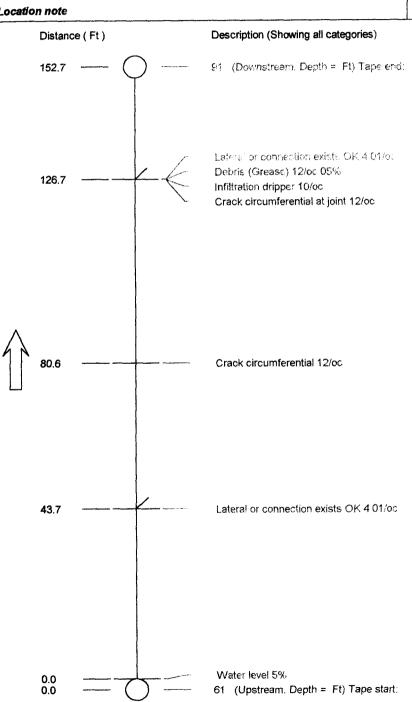
Water level 10%

82 (Downstream, Depth = Ft) Tape start:

# Pipe Graphic Report of PLR 61 X

# for MID-COUNTY SERVICES, INC.

Job Contract		Cassette 13		Surveyed	Surveyed On 08/20/2004		Sheet 111	
Operator BMN	Van Reference	Weather	Dry					
Road Name 1ST AVE, N.		Piace Name TIERA VERDE						
Location type Ligh	nt road (rural roads with ligh	nter traffic,town & city I	back streets	<b>5</b> )				
Surface								
Survey purpose San	nple survey to determine as	sset condition						
Pipe Use Foul		Schedule length	152.7 <b>F</b> t	From 6	1		Depth	Ft
Shape Circular		Size 8 by	ins	To 9'	1		Depth	Ft
Material Vitrified c	ay	Joint spacing	Ft	Direction	on Down	ì		
Lining		Year laid	Cat	Pre-cle	an Y	Last cl	eaned	
General note				Structura	el	Servict	Carrier	-oction i
Location note				ttingst.	r c. nore	1		

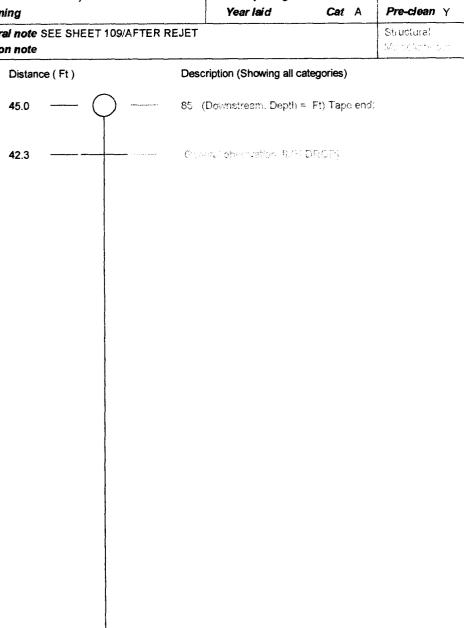


# Pipe Graphic Report of PLR 80 X

# for MID-COUNTY SERVICES, INC.

Media

Job Contract		Cas	Cassette 13		Surveyed On 08/20/2004		
Operator BMN	Van Reference	Weather	<sup>-</sup> Dry				
Road Name 3RD ST, W.		Place Name TIERRA VERDE					
Location type Light	road (rural roads with ligh	iter traffic,town & city	back streets	;)			
Surface							
Survey purpose Samp	le survey to determine as	set condition					
Pipe Use Foul		Schedule length	45.0 Ft	From 86		Depth	Ft
Shape Circular		Size 8 by	ins	<b>To</b> 85		Depth	Ft
Material Vitrified clay	1	Joint spacing	Ft	Direction	Down		
Lining		Year laid	Cat A	Pre-clean	Y Last	deaned	
General note SEE SHI	EET 109/AFTER REJET	<del></del>		Structural	Service	Censia	un'isan
				1	in the second		



Water level 10%

# Pipe Graphic Report of PLR 80 X

# for MID-COUNTY SERVICES, INC.

Media

Job Contract		Cassette 1	Cassette 13		Sheet 113	
Operator BMN	Van Reference	Weather Dry				
Road Name MADONNA BLVD.		Place Name	Place Name TIERRA VERDE			
Location type Ligi	ht road (rural roads with ligh	nter traffic,town & city back str	eets)			
Surface						
Survey purpose Sar	nple survey to determine as	set condition				
Pipe Use Foul		Schedule length 169.5	Ft	From 88	Depth	F
Shape Circular		Size 12 by ins		To LS	Depth	F
Material Vitrified c	lay	Joint spacing Ft		<b>Direction</b> Down		
<b>Material</b> Vitrified c	lay		t A		t cleaned	
			t A			ev p

raing Year laid Cat A Pre-clean Y Last cleaned

rain note HEAVY FLOW on note VIDEO ALSO IN REVERSE

Distance (Ft) Description (Showing all categories)

LS (Downstream, Depth = Ft) Tapa end.



Water level 40%

# Pipe Graphic Report of PLR 91 X

# for MID-COUNTY SERVICES, INC.

Media

Job Contract		Casse	ette 13	Surveyed On 08/20/20	004 <b>Shee</b> t 114	
Operator BMN	Van Reference	Weather D	ry			
Road Name MADONNA BLVD.		Piace I	Place Name TIERRA VERDE			
Location type Lig	ht road (rural roads with ligh	iter traffic,town & city ba	ck streets)			
Surface						
Survey purpose Sar	mple survey to determine as	set condition				
Pipe Use Foul		Schedule length 1	90.6 <i>Ft</i>	From 91	Depth	F
Shape Circular		Size 12 by	ins	<b>To</b> 88	Depth	Ft
		Joint spacing	Ft	Direction Down		
<b>Material</b> Vitrified o	lay					
<b>Material</b> Vitrified o	lay	Year laid	Cat A	Pre-clean Y	Last cleaned	
		Year laid	Cat A		Last cleaned	er <sup>a</sup> j min

Distance (Ft) Description (Showing all categories) 88 (Downstream, Depth = Ft) Tape end:

0.0

Water level 40%