

**HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
CORROSION CONTROL TEST STATION
FIELD DATA SURVEY FORM**

Location: 06+40 Date Surveyed: 06/20/2007
 T/S #: 4 Surveyed by: AS/MJ
 T/S Type: St w/Anode Contract #: 44-4227
 Pipe Size: 48"
 Was the T/S located? YES / NO YES

TEST STATION CONDITION

Test Box: Above ground
 Terminal Board: 7 terminals in good condition
 Wires: Good
 Other: _____

SURVEY DATA

Test Wire Size/Description	Color	P/Cu-CuSO ₄ (V)		P/Zn (V)		Anode (mA)
		"On"	"Off"	"On"	"Off"	
1. #2 E. Anodes	Black	-1.215	-1.263	-0.295	-0.295	
2. #2 W. Anodes	Black	-1.208	-1.270	-0.293	-0.292	
3.						
4. #8 Pipe	Black	-1.060	-1.100	-0.110	-0.110	35.7
5. #8 Pipe	White	-1.063	-1.103	-0.110	-0.110	
6. #8 Reference	Black	-0.967	-0.005			
7. #2 E. Anodes	Black	-1.242	-1.274	-0.296	-0.295	
8. #2 W. Anodes	Black	-1.243	-1.277	-0.295	-0.295	
9. #2 Pipe	Black	-1.247	-0.007	-0.299	-0.002	

P/Cu-CuSO₄ = Pipe to Copper-Copper Sulfate Reference Electrode
 P/Zn = Pipe to Zinc Reference Electrode
 "On" = Reading with Anode(s) connected
 "Off" = Reading with Anode(s) disconnected
 Anode = Current output Anode(s)

TESTING THE EFFECTIVENESS OF INSULATING JOINTS

Groundbed: _____
 Connected to (B/W): _____

	Current (A)	Voltage (V)	Resistance (ohms)
ON:			
OFF:			
DELTA:			

TESTING IR DROP

IR Drop Calibrations	I (A)	E (mV)	$K = \frac{\Delta I \text{ (mA)}}{\Delta E \text{ (mV)}}$ Direction: _____	Between Terminals	Resistance (ohms)
INITIAL:					
FINAL:					
DELTA:					

REPAIRS MADE

Test Box: _____
 Terminal Board: _____
 Wires: _____
 Other: _____
 Comments/Recommendations: It appears wire connected to terminal (I) is broken underground.



Figure 236 - Location of Test Station 4227-4



Figure 237 - Test Station 4227-4 close-up