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

Location:	00+00	**Date Surveyed:**	06/21/2007
		Surveyed by:	AS/MJ
T/S #:	1	**Contract #:**	44-4227
T/S Type:	IJ w/Anode	**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) "On"	P/Cu-$CuSO_4$ (V) "Off"	P/Zn (V) "On"	P/Zn (V) "Off"	Anode (mA)
1. #2 W. Anodes	Black	-0.998	-0.805	-0.322	-0.319	10
2. #2 E. Anodes	Black	-0.992	-0.955	-0.284	-0.320	
3. #2 N. Pipe	White	-0.875	-0.894	-0.473	-0.381	
4. #2 S. Pipe	Black	-0.800	-0.811	-0.464	-0.470	
5. #8 Reference	Black	-1.225	-1.249			
6. #8 N. Pipe	White	-0.802	-0.892	-0.472	-0.470	
7. #8 S. Pipe	Black	-0.887	-0.887	-0.381	-0.380	
8.						

P/Cu-$CuSO_4$ = 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:	0.120	0.557	3.89
OFF:	0.000	0.090	
DELTA:	0.120	0.467	

TESTING IR DROP

IR Drop Calibrations	I (A)	E (mV)
INITIAL:		
FINAL:		
DELTA:		

K = $\frac{\Delta I \text{ (mA)}}{\Delta E \text{ (mV)}}$

Direction:

Between Terminals	Resistance (ohms)

REPAIRS MADE

Test Box:	
Terminal Board:	
Wires:	
Other:	
Comments/Recommendations:	Some of the plastic washers used in the terminal board were obstructing anode/pipe electrical contact. They were removed.

Figure 230 - Location of Test Station 4227-1

Figure 231 - Test Station 4227-1 close-up