

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

Location: 08+24 (N) Date Surveyed: 05/30/2007
 US Rt 29 Surveyed by: AS/MJ
 T/S #: 08 Contract #: 44-3868
 T/S Type: IJ w/Anode Pipe Size: 16"
 Was the T/S located? YES / NO YES

TEST STATION CONDITION

Test Box:	Good
Terminal Board:	Good
Wires:	#4 wire is broken. Broken concrete pad
Other:	

SURVEY DATA

Test Wire Size/Description	Color	P/Cu-CuSO ₄ (V)		P/Zn (V)		Anode (mA)
		"On"	"Off"	"On"	"Off"	
1. #10 AWG	Blue	-1.624	-1.680	-1.561	-1.394	10.4
2. #10 AWG	Black	-1.642	-1.642	-1.562	-1.602	
3. #6 AWG	Black	-1.630	-1.467	-1.038	-1.393	
4. #8 AWG	Black	-0.084	-0.081			
5. #10 AWG	Blk/Wht	-1.344	-1.207	-1.139	-1.146	
6.						
7.						
8.						

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:	0.07	12.6	172.77
OFF:	0.00	0.506	
DELTA:	0.07	12.094	

TESTING IR DROP

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

REPAIRS MADE

Test Box:	_____
Terminal Board:	_____
Wires:	#4 wire is broken
Other:	_____
Comments/Recommendations:	IJ test confirms the isolation between two pipes



Figure 88 – Location of Test Station 8 - US Rt 29 N



Figure 89 – Test Station 8 close up