

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

Location: 30+00 Date Surveyed: 05/31/2007
 Old Columbia Rd Surveyed by: AS/MJ
 T/S #: 04 Contract #: 44-3868
 T/S Type: ST w/Anode Pipe Size: 16"
 Was the T/S located? YES / NO YES

TEST STATION CONDITION

Test Box:	Good
Terminal Board:	Good
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. #10 AWG	Blue	-1.231	-1.066	-1.429	-0.976	67.0
2. #8 AWG	Black	0.225	-0.047			
3.						
4. #8 AWG	Black	-1.242	-1.700	-1.447	-1.666	
5. #10 AWG	Blue	-1.218	-1.166	-1.426	-0.973	
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:			
OFF:			
DELTA:			

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:	
Other:	
Comments/Recommendations:	



Figure 80 – Location of Test Station 4 - Old Columbia Road



Figure 81 – Test Station 4 close up