

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

Location: 03+00 Date Surveyed: 07/06/2007
 South of US Rt. 29 Ramp Surveyed by: AS/MJ
 T/S #: 4 Contract #: 44-3844
 T/S Type: IJ Pipe Size: 30"
 Was the T/S located? YES / NO YES

TEST STATION CONDITION

Test Box: No concrete pad
 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. #8 AWG	Black	-1.205	-1.383	-1.218	-1.228	22
2. #8 AWG	Black	-1.205	-1.400	-1.205	-1.218	
3. #10 AWG	White	-0.602	-0.600	-0.413	-0.413	
4. #10 AWG	White	-0.100	-0.200			
5. #10 AWG	Blue	-1.167	-1.000	-0.850	-0.844	
6. #10 AWG	White	-0.556	-0.590	-0.411	-0.413	
7. #10 AWG	Blue	-1.172	-1.015	-0.847	-0.840	
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:	0.052	0.880	8.23
OFF:	0.00	0.452	
DELTA:	0.052	0.428	

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: IJ test indicated electrical discontinuity across the insulated joint



Figure 67 - Location of Test Station 3844-4



Figure 68 - Test Station 3844-4 close-up