

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

Location: 78+90 Date Surveyed: 06/06/2007
 E. of Old Stockbridge & Oldfield Surveyed by: AS/MJ
 T/S #: 16 Contract #: 44-3327
 T/S Type: IJ w/Anode Pipe Size: 36"
 Was the T/S located? YES / NO _____

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. #8 AWG	Red	-1.188	-1.609	-0.228	-0.605	20.0
2. #10 AWG	Black	-1.202	-1.159	-0.229	-0.157	
3. #10 AWG	Green	-1.306	-1.291	-0.312	-0.302	
4. #10 AWG	Green	-0.998	-0.995			
5.						
6. #10 AWG	Green	-1.308	-1.292	-0.308	-0.295	
7. #10 AWG	Black	-1.196	-1.162	-0.203	-0.168	
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:	1.6	2.000	1.32
OFF:	0.0	-0.125	
DELTA:	1.6	2.125	

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 appears to be working.



Figure 147 – Location of Test Station 16



Figure 148 – Test Station 16 close up