

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

**Location:** 00+21 **Date Surveyed:** 3/10/2005  
Rt. 40 at Patapsco Bridge **Surveyed by:** AC/MJ

**T/S #:** 2 **Contract #:** 8-W  
**T/S Type:** IJ w/ Anode **Pipe Size:** 24"

**Was Test Station located? YES/NO** Yes

**TEST STATION CONDITION**

**Test Box :** Buried Under Soil  
**Terminal Board :** Good  
**Wires :** Good  
**Other :** \_\_\_\_\_

**SURVEY DATA**

Test Wire Size/Description	Color	P/Cu-CuSO <sub>4</sub> (V)		P/Zn (V)		Anode (mA)
		"On"	"Off"	"On"	"Off"	
1) #10 AWG	Red	-1.648	-1.620	-1.426	-1.434	0.000
2) #10 AWG	Red	-1.689	-0.663	-0.47	-0.482	
3) #10 AWG	Green	-1.649	-1.140	-1.427	-0.902	
4) #8 AWG	Black	-0.215	-0.169			
5) #10 AWG	Black	-1.062	-1.016	-0.844	-0.839	
6) #10 AWG	Green	-0.710	-0.682	-0.549	-0.532	
7) #10 AWG	Black	-1.060	-1.010	-0.843	-0.839	

P/Cu-CuSO<sub>4</sub> = Pipe to Copper - Copper Sulfate Reference Cell  
P/Zn = Pipe to Zinc Permanent Reference Cell  
"On" = Reading with Anode(s) connected  
"Off" = Reading with Anode(s) disconnected  
I Anode = Current output of anodes

**TESTING THE EFFECTIVENESS OF INSULATING JOINTS**

GROUND BED:  
CONNECTED TO (B/W):

CURRENT (A)	VOLTAGE (V)	RESISTANCE (ohms):	7.27
ON: 0.0011	ON: 0.3		
OFF: 0	OFF: 0.29		
DELTA: 0.0011	DELTA: 0.01		

**REPAIRS MADE**

**Test Box:** Cleared Soil.  
**Terminal Board:** \_\_\_\_\_  
**Wires:** \_\_\_\_\_  
**Other:** \_\_\_\_\_  
**Additional Comments/Recommendations:** \_\_\_\_\_



**Figure 71 - Location of Test Stations on contract 8W**



**Figure 72 - Test Station 8W-1 close-up**