

# U.S. ROUTE 40 BRIDGE AT PATAPSCO RIVER

## 1. Test stations

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

Location: (00+20) Date Surveyed: 8/15/02  
Rt. 40 @ Patapsco Bridge Surveyed by: DD/MJ  
 T/S #: TS#1 Contract #: L6154  
 T/S Type: ST / w Anode Pipe Size: 24"

Was Test Station located? YES/NO Yes  
 If NO, then how much time was spent locating? \_\_\_\_\_

#### TEST STATION CONDITION

Test Box : Good  
 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	Black	-0.884	-0.826	-0.92	-0.889	436
2) #10 AWG	Red	-0.905	-1.537	-0.942	-1.628	
3) #10 AWG	Black	-0.875	-0.824	-0.913	-0.888	
4) #10 AWG	Red	-0.886	-1.537	-0.928	-1.628	
5) #8 AWG	Black	56.8	73.8			
6)						
7)						

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

IR Drop Calibrations	I (Amps)	E (mV)
Initial		
Final		
Delta		

K =          ? I (mA)  
         ? E (mV)

Direction; \_\_\_\_\_

Between Terminals	Resistance (Ohms)

#### REPAIRS MADE

Test Box: \_\_\_\_\_  
 Terminal Board: \_\_\_\_\_  
 Wires: \_\_\_\_\_  
 Other: \_\_\_\_\_  
 Additional Comments/Recommendations: \_\_\_\_\_



**Figure 78 - Test stations #1 & #2**



**Figure 79 - Test station #1, close-up**