

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

Location: 11+68 Date Surveyed: 4/6/2005  
N. of 175 Surveyed by: AC/MJ  
T/S #: 3725-3 Contract #: 24-3725  
T/S Type: CS w/ Anode Pipe Size: 30"

Was Test Station 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 <sub>4</sub> (V)		P/Zn (V)		Anode (mA)
		"On"	"Off"	"On"	"Off"	
1) #10 AWG	Blue	-1.223	-1.227	-0.604	-0.707	2.80
2) #10 AWG	White	-0.618	-0.619	0.000	-0.200	
3) #10 AWG	Blue	-1.146	-1.225	-0.400	-0.825	
4) #8	Black	-1.518	-1.224	-0.900	-0.841	
5) #10 AWG	White	-0.618	-0.619	0.337	-0.255	
6) #10 AWG	Yellow	-0.250	-0.308			
7) #12 AWG	Black	-0.517	-0.517	0.170	-0.165	
8) #12 AWG	Black	-0.515	-0.506	0.170	-0.300	

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 ELECTRICAL ISOLATION OF THE CASING FROM THE PIPE**

GROUND BED:  
CONNECTED TO (B/W):

CURRENT	(A)	VOLTAGE	(V)	RESISTANCE (ohms):	1.22
ON:	10.32	ON:	6.21		
OFF:	0	OFF:	-6.41		
DELTA:	10.32	DELTA:	12.6		

**REPAIRS MADE**

Test Box: \_\_\_\_\_  
Terminal Board: \_\_\_\_\_  
Wires: \_\_\_\_\_  
Other: \_\_\_\_\_  
Additional Comments/Recommendations: The casing appears to be electrically isolated from the pipe.



**Figure 49 - Location of Test Station 3725-3**



**Figure 50 - Test Station 3725-3 close-up**