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

Location:	02+80	Date Surveyed:	07/06/2007
	South of US Rt. 29 NB Ramp	Surveyed by:	AS/MJ
T/S #:	3	Contract #:	44-3844
T/S Type:	CS	Pipe Size:	30"
Was the T/S	located? YES / NO		

## **TEST STATION CONDITION**

Test Box:	Cover is corroded		
Terminal Board:	Good		
Wires:	Good		
Other:	Located approximately 10ft. from the guardrail. Test station cover is corroded.		

SURVEY DATA				
Test Wire Size/Description	Color	P/Cu-CuSO₄ (V) "On""Off"	P/Zn (V) "On""Off"	Anode (mA)
1. #14 AWG	Black	-0.512		
2. #14 AWG	Black	-0.512		
3. #14 AWG	Black	-0.720		
4.				
5. #12 AWG	White	-0.996		
6. #14 AWG	Black	-0.718		
7. #12 AWG	White	-0.990		
8.				

P/Cu-CuSO<sub>4</sub> = Pipe to Copper-Copper Sulfate Reference Electrode P/Zn

= Pipe to Zinc Reference Electrode

= Reading with Anode(s) connected

= Reading with Anode(s) disconnected

= Current output Anode(s)

"On"

"Off"

Anode

## TESTING THE EFFECTIVENESS OF INSULATING JOINTS

Groundbed: Connected to (B/W):			
	Current (A)	Voltage (V)	Resistance (ohms)
ON:	0.04	1.300	21.25
OFF:	0.00	0.550	
DELTA:	0.04	0.850	

## **TESTING IR DROP**

IR Drop Calibrations	I (A)	E (mV)	К =	∆l (mA)	Between Terminals	Resistance (ohms)
INITIAL:			]	∆ <b>E (mV)</b>		
FINAL:			1			
DELTA:			Direction:			
REPAIRS MADE						

Test Box:		
Terminal Board:		
Wires:		
Other:		
Comments/Recom	mendations:	Casing appears to be isolated from the pipe.



Figure 65 – General area of Test Station 3844-3



Figure 66 - Test Station 3844-3 close-up