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

Location:	19+33	**Date Surveyed:**	05/29/2007
	Old Columbia Rd	**Surveyed by:**	AS/MJ
T/S #:	3a	**Contract #:**	44-3868
T/S Type:	ST w/Anode	**Pipe Size:**	16"
Was the T/S located? YES / NO	YES		

TEST STATION CONDITION

Test Box:	Good
Terminal Board:	Good – Slightly covered with soil
Wires:	Good
Other:	

SURVEY DATA

Test Wire Size/Description	Color	P/Cu-$CuSO_4$ (V) "On"	P/Cu-$CuSO_4$ (V) "Off"	P/Zn (V) "On"	P/Zn (V) "Off"	Anode (mA)
1. #10 AWG	Blue	-1.062	-0.830	-1.040	-0.928	55
2. #10 AWG	Black	-0.038	-0.020			
3.						
4. #6 AWG	Black	-1.110	-1.531	-1.568	-1.644	
5. #10 AWG	Blue	-1.061	-0.876	-1.140	-0.922	
6.						
7.						
8.						

P/Cu-$CuSO_4$ = 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:			
OFF:			
DELTA:			

TESTING IR DROP

IR Drop Calibrations	I (A)	E (mV)
INITIAL:		
FINAL:		
DELTA:		

K = $\frac{\Delta I \text{ (mA)}}{\Delta E \text{ (mV)}}$

Direction:

Between Terminals	Resistance (ohms)

REPAIRS MADE

Test Box:	
Terminal Board:	
Wires:	
Other:	
Comments/Recommendations:	

Figure 76 – Location of Test Station 3A - Old Columbia Road

Figure 77 – Test Station 3A close up