HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS **CORROSION CONTROL TEST STATION** FIELD DATA SURVEY FORM Location: 01+77 (N) Date Surveyed: 3/18/2005 N of Old Columbia Road Surveyed by: AC/MJ T/S #: Contract #: 44-3868 06 Pipe Size: T/S Type: CS w/ Anodes 16" Was Test Station located? YES/NO Yes **TEST STATION CONDITION** Test Box : Good **Terminal Board:** Good Wires: Good Other: **SURVEY DATA** P/Zn (V) **Test Wire** P/Cu-CuSO₄ (V) "Off" Size/Description Color "On" "Off" "On" Anode (mA) 1) #8 Black -1.172 -1.747 60.0 #10 White -0.677-0.651 3) #10 Black -1.169 -0.919 #10 Black -1.166 -0.909 5) #10 White -0.678 -0.654 6) 7) P/Cu-CuSO₄ = Pipe to Copper - Copper Sulfate Reference Cell P/Zn = Pipe to Zinc Permanent Reference Cell "On" = Reading with Anode(s) connected = Reading with Anode(s) disconnected "Off" I Anode = Current output of anodes TESTING THE EFFECTIVENESS OF INSULATING JOINTS / PIPE CASING GROUNDBED: CONNECTED TO (B/W): CURRENT (A) **VOLTAGE** (V) RESISTANCE (ohms): 2.85 ON: 3.6 -10.8 ON: OFF: OFF: 0 -0.54 DELTA: 3.6 DELTA: -10.3 **REPAIRS MADE** Test Box: Terminal Board: Wires: Other: Additional Comments/Recommendations: Casing test confirms the isolation between the casing and the pipe.



Figure 98 – Location of Test Station 6 - exit ramp from Johns Hopkins Rd. to Rt.29N



Figure 99 – Test Station 6 close up