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

Location:	_ocation: (00+20)					d: 07/	07/06//2007					
	(00:20)			te Surveye rveyed by:		AS/MJ						
T/S #:	1				Contract #: 8-W							
T/S Type:	ST w/Anode			Pipe Size: 24'								
	located? YE		YES									
TEST STATION CONDITION												
Test Box: Buried under soil												
Terminal Bo	ard: Good	ł										
Wires:	Good	k										
Other:												
SURVEY DATA												
Test Wire			P/Cu-CuSO₄ (V)				P/Zn (Anode				
Size/Description		Color		"On""Off"			On""((mA)				
1. #10 <i>P</i>		Red	-1.3		-1.480			-1.220	0.00			
2. #10 /		Red	-0.6		-0.655			-0.521				
3. #10 /		Green	-1.4		-1.145		941	-0.980				
4. #8 A		Black	-0.1		-0.132		74	0.074				
5. #10 <i>i</i> 6. #10 <i>i</i>		Black	-0.8		-0.812 -0.765			-0.674				
6. #10 / 7. #10 /		Green Black	-0.6 3.0-		-0.765 -0.870	_		-0.523 -0.634				
8.	AVVG	DIACK	-0.0	918	-0.070	-0.2	132	-0.034				
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)												
		TING THE	EFFECT	IVEN	ESS OF INS	SULATING	JOIN	TS				
Groundbed:												
Connected t					V 14 ()	n.	ı	.	(1)			
ONI	Current (A)			Voltage (V)				Resistance (ohms)				
ON: OFF:												
DELTA:												
DELIA.			TES	STING	IR DROP							
IR Drop) i ii (O	III DILOI		В	etween	Resistance			
Calibrations	I (A)	E (n	nV)		K =	∆ l (mA)		erminals	(ohms)			
INITIAL		(::	,			$\Delta E (mV)$			(515)			
FINAL						, ,						
DELTA	:			Direc	ction:							
REPAIRS MADE												
Test Box:	Clea	ed soil										
Terminal Board:												
Wires:												
Other:												
Comments/Recommendations: Anode current is not noticeable.												

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

Location:	(00+21)				ate Surveyed	: 07/06	07/06//2007				
	Rt. 40 at Patapsco Bridge				irveyed by:		AS/MJ				
T/S #:	2				ontract #:	8-W	<u></u>				
T/S Type:	IJ w/Anode			Pi	pe Size:	24"					
Was the T/S located? YES / NO YES											
TEST STATION CONDITION											
Test Box: Buried under soil											
Terminal Board: Good											
Wires:	Good										
Other:											
SURVEY DATA											
Test Wire			P/Cu-CuSO₄ (V)			P/	Anode				
Size/Description		Color		"On""Off"			n""Off"	(mA)			
1. #10/		Black		866	-0.799	-0.84					
	AWG	Red		832	-1.570	-0.85					
	AWG	Black		852	-0.800	-0.82					
4. #10/		Red		867	-1.573	-0.84	2 -1.556				
5. #8 A	WG	Black	-0.	022	-0.005			1			
6. 7.											
8.											
	000	Dinata	0	. ^	O. Hoto Da	farance Ele					
P/Ct P/Zn	ı-CuSO₄				oer Sulfate Re	terence Ei	ectrode				
"On"											
"Off"											
Anoc		= Curren				.00					
			•		ESS OF INSU	JLATING J	OINTS				
Groundbed:		/III.				JE ,	<u> </u>				
Connected to											
		rent (A)		Voltage (V)			Resistance (ohms)				
ON:	0.005				• • •	0.91		14.0			
OFF:	0.000					0.98					
DELTA:		0.	.005			-0.07					
TESTING IR DROP											
IR Drop							Between	Resistance			
Calibrations		E (r	nV)			l (mA)	Terminals	(ohms)			
INITIAL					Δ	E (mV)					
FINAL											
DELTA	:			Dire	ction:						
REPAIRS MADE											
Test Box:		red soil									
Terminal Board:											
Wires:											
Other: Comments/Recommendations: IJ appears to be working											
Comments/	Recommend	ations. <u> </u>	о арреа	115 10 1	be working						



Figure 57 - Location of Test Stations on contract 8W



Figure 58 - Test Station 8W-1 close-up