

Cathodic System Evaluation

Date:
 Name:
 Bridge Number: Dir:
 Route: County:
 Location:
 Rectifier Serial:
 Rectifier Brand Name:
 Air Temperature:
 Deck Condition: Date Let:
 Type Anode:

Cathodic System (Mark Yes or No)

Broken Lead:
 Exposed Lead:
 Corroded Lead:
 Meters Not Functioning:
 Fuses Blown:
 Corroded Circuit Board:
 Lightening Arrestors Blown:
 Power Off:
 Lost ID Tags:
 Are all zones on constant:

Zone #	Section A						Section B		
	Rectifier Settings			Ref. Cell and Probe			Depolarization Readings		
	Input Voltage	Input Current	Input Current Density	On Potential (millivolt)	Instant Off Potential	Rebar Probe	4 Hr. Off Potential (millivolt)	Shift in Potential (millivolts)	Revised Current (amps)
1	6.8	2.25	1.50	-550	-510	+	-400	-110	2.3
2	9.0	3.00	2.00	-492	-460	+	-285	-175	2.5
3	6.9	2.30	1.53	-605	-585	+	-470	-115	2.3
4	5.4	1.80	1.20	-511	-488	+	-380	-108	1.8
5	4.2	1.40	0.93	-488	-470	+	-380	-90	1.6
6	6.8	2.25	1.80	-215	-9	+	-40	-155	1.7
7	25	0.50	0.40	-390	-370	-	-340	-30	1.7
8	6	2.00	1.60	-355	-330	+	-210	-120	2.0
9	5.1	1.70	1.36	-400	-385	+	-290	-95	1.8
10	7.2	2.40	1.92	-388	-375	+	-200	-175	1.4

Zone Loc:

Comment:
 Rectifier cabinet rusty. Mowers have broken conduit at cabinet. Zone 7 appears to have major problems.

-----> If not, list zones on constant voltage

Meter Type

External Meter:
 Built In Meter:

Comments:
 Re-computed reference cell parameters on 8-1-06.

Zone #	Section C							
	Original Settings				Fixed Design Parameters			
	Original On Potential	Original Input Current	Zone Size (Sq. Ft.)	Input Current Density (ma/sf)	Current Parameters		Potential Parameters	
					Lower	Upper	Lower	Upper
1	-490	2.25	1500	1.50	0.75	3.00	-294	-686
2	-472	3.00	1500	2.00	0.75	3.00	-283	-661
3	-550	2.30	1500	1.53	0.75	3.00	-330	-770
4	-458	1.80	1500	1.20	0.75	3.00	-275	-643
5	-498	1.40	1500	0.93	0.75	3.00	-299	-697
6	-307	2.25	1250	1.80	0.63	2.50	-184	-430
7	-460	0.50	1250	0.40	0.63	2.50	-276	-644
8	-355	2.00	1250	1.60	0.63	2.50	-193	-451
9	-510	1.70	1250	1.36	0.63	2.50	-306	-714
10	-412	2.40	1250	1.92	0.63	2.50	-247	-575