INDEX OF SHEETS 06-14-13 LETTING ITEM 206

$ \begin{array}{c} 1\\ 2\\ 3-6\\ 7\\ 8\\ 9\\ 10-12\\ 13-14\\ 15-17\\ 18-19\\ 20\\ 21\\ 22\\ 23-43\\ \end{array} $	COVER SHEET STANDARDS AND GENERAL SUMMARY OF OUANTITIES REFLECTOR AND TERMINAL HTC CABLE TENSION CHAR TIMBER CURB & BITUMINO & IMPACT ATTENUATOR L. TUBULAR THRIE BEAM RET TRAFFIC BARRIER TERMINI TRAFFIC BARRIER TERMINI PRE-MGS GUARDRAIL STAN	NOTES MARKER PLACEMENT ITS & LOG IUS CURB REPAIR, GI AYOUT PLAN IROFIT RAIL FOR BR AL, TYPE 1 AL, TYPE 3 & 3A AL, TYPE 4 AL, TYPE 8 AL, TYPE 9 AL, TYPE 9 AL, TYPE 9 AL, TYPE 12 IDARDS EFFECTIVE A	T DETAIL UARD POST DETAIL IDGES PRIL 1, 2006	
	HIGHWAY STAND SEE PAGE 2 FOR EFFECTIVE JANU	LIST OF HIGHWA Ary 1, 2013	AY STANDARDS	
MICROFILM REEL NUMB AWARDED RESIDENT I AS BUILT I ON THE FO	D ER INGINEER HANGES WERE MADE .LOWING SHEETS			

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

VARIOUS ROUTES D-3 HIGHWAY DAMAGE REPAIR 2014 VARIOUS COUNTIES

C = 93 = 046 = 13

REPAIRING MOTORIST CAUSED DAMAGE TO HIGHWAY FACILITIES



АТЕ = 3/25/2013 АМЕ = сі\рж.котк\рицоt\corcoranlm\d0329287\D366С76•sht-соver.dc CALE = 100.0000 / л.

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PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

HIGHWA	Y STANDARDS	GENERAL NOTES
EFFECTIVE.	JANUARY 1, 2013	
630001-10	STEEL PLATE BEAM GUARDRAIL	
630101-09	GUARDRAIL MOUNTED ON EXISTING CUEVERTS	ANY REFERENCE TO A STANDAP
630106-01	LONG-SPAN GUARDRAIL OVER CULVERT	INTERPRETED TO MEAN THE ED
630301-06	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS	SHOWN IN THE LIST OF STAND
631011-09	TRAFFIC BARRIER TERMINAL, TYPE 2	
631026-05	TRAFFIC BARRIER TERMINAL, TYPE 5	THE CONTRACTOR IS ADVISED
631031-11	TRAFFIC BARRIER TERMINAL, TYPE 6	DEPARTMENT-OWNED UNDERGROU
631032-08	TRAFFIC BARRIER TERMINAL, TYPE 6A	LIMITS OF THE PROPOSED IMPR
631033-04	TRAFFIC BARRIER TERMINAL, TYPE 68	REQUEST THE ILLINOIS DEPART
631046-04	TRAFFIC BARRIER TERMINAL, TYPE 10	(815-434-8417) TO LOCATE THE
635001-01	DELINEATORS	MINIMUM OF 72 HOURS NOTICE.
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT	THE JOINT UTILITY LOCATING
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS	SYSTEM.
638001-02	GLARE SCREEN BLADES	
643001-01	SAND MODULE IMPACT ATTENUATORS	ALL DAMAGE TO DEPARTMENT (
664001-02	CHAIN LINK FENCE	CAUSED BY THE CONTRACTOR S
665001-02	WOVEN WIRE FENCE	SATISFACTION OF THE DEPART
701001-02	OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' (4,5 m) AWAY	THIS SHALL INCLUDE ALL TEMP
701006-04	OFF-ROAD OPERATIONS 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM	FACILITY OPERATIONAL WHILE
	PAVEMENT EDGE	PERMANENT REPAIRS. SPLICIN
701101-03	OFF-ROAD OPERATIONS MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM	ALLOWED. ELECTRIC CABLE SH
	PAVEMENT EDGE	OR CONTROLLER.
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY	
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS 2 45 MPH	THE CONTRACTOR IS REMINDED
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS	CHANGED CONDIIONS FROM ANY
701400-06	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY	
701406-07	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY	THE REMOVAL OF DAMAGED GUA
701411-08	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP	FOR SEPARATELY BUT SHALL B
	FOR SPEEDS≥45 MPH	VARIOUS REPLACEMENT PAY IT
701421-05	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY,	
	FOR SPEEDS≥45 MPH TO 55 MPH	THE TRAFFIC CONTROL REQUIRE
701426-05	LANE CLOSURE, MULTILANE INTERMITTENT OR MOVING OPERATION,	OR FENCE SHALL BE CONSIDER
	FOR SPEEDS≥ 45 MPH	WORK, AND SHALL BE IN ACCOP
701456-02	PARTIAL EXIT RAMP CLOSURE FREEWAY/EXPRESSWAY	INCLUDED HEREIN.
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED	
701502-05	URBAN LANE CLOSURE 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE	ALL HARDWARE (NUTS, BOLTS,
701601-08	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN	FOR THE REPAIRS TO OR INST.
701602-06	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL	CONSIDERED INCIDENTAL TO TH
	LEFT TURN LANE	
701606-08	URBAN LANE CLOSURE, MULTILANE, 2W MITH MOUNTABLE MEDIAN	THE CONTRACTOR SHALL BE RE
701701-08	URBAN LANE CLOSURE, MULTILANE INTERSECTION	FROM CONSTRUCTION OPERATIO
701801-05	LANE CLOSURE, MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE	SPECIFICATIONS. THE JULLE
701901-02	TRAFFIC CONTROL DEVICES	ADVANCE NOTICE IS REQUIRED.

	HIGH	TENSION	CABLE BARRIE	R SYSTEM REP	AIR SCHEDUL	E		······································
		REPAIR	REPLACE	HTC SYSTEM	REMOVE &	REMOVE &	F&I HTC	FURNISH & DRIVE
LOCATION / COUNTY / SYSTEM	SYSTEM TYPE	HTC	HTC	MAINTENANCE	REPLACE	REPLACE	FOUNDATION	METAL SOCKET
			END SECTION		HTC POST	HTC POST (HD)	& POST	with POST
1-55, MP 227-233 / CRUNDY / BRIFEN	SOCKETED	1	2	3	4	· [······	6	7
1-55, MP 227-216 / GRUDY & LIVINGSTON / GIBLALTAR	DRIVEN	1	2	3	4	-		·
I-57, MP 324-316 / KANKAKEE / GIBRALTAR	DRIVEN	1	2	3	4			
I-57. MP 292-277 / IROQUOIS / NUCOR	DRIVEN	1	2	3	4			
I-80, MP 105-97 / LASALLE & GRUNDY / TRINITY	DRIVEN (HD)	1	2	3		5		<u></u>
I-80, MP 92-81 / LASALLE / TRINITY	DRIVEN (HD)	1	2	3	1	5		
	TABLE SHOWS EACH SYS	TEM AND IT'S	CORRESPONDING PAY	TEMS	· · · · · · · · · · · · · · · · · · ·		L.,	J
	REPAIR PAY ITEMS							

1 = REPAIR HIGH TENSION CABLE

2 = REPLACE HIGH TENSION CABLE END SECTION

3 = HIGH TENSION CABLE SYSTEM MAINTENANCE

4 = REMOVE AND REPLACE HIGH TENSION CABLE POST

5 = REMOVE AND REPLACE HIGH TENSION CABLE POST (HEAVY DUTY)

- 6 = FURNISH AND INSTALL HIGH TENSION CABLE FOUNDATION AND POST
- 7 = FURNISH AND DRIVE METAL SOCKET WITH POST

Contraction of the second s										÷ 0-,	A SULDISALMES DIVIDUAL	OF NELEWIN TO	.179 [
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c:\pw_work\pwidoz\corcoranlm\d0329287\0	366C78-abt-cover.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS			GEI	NERAL NOTES		RTE,	,01101	CODATE:	SHEETS NO.
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	PLDT DATE = 3/25/2013	DATE -	REVISED -		SCALE:	SHEET NO.	OF	SHEFTS STA.	το στά.				NO. 66C76
								,		1.00.000.000			l

STANDARD IN THESE PLANS SHALL BE THE EDITION AS INDICATED BY THE SUBNUMBER STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

DVISED THAT THERE MAYBE PRESENCE OF IDERGROUND ELECTRICAL CABLE WITHIN THE SED IMPROVEMENT. THE CONTRACTOR SHALL DEPARTMENT OF TRANSPORTATION IN OTTAWA ATE THE UNDERGROUND FACILITIES, PROVIDING A NOTICE. THE DEPARTMENT IS NOT A MEMBER OF INCOMPACTION FOR EXCAVATORS (JULIE)

RTMENT OWNED UNDERGROUND FACILITIES. RACTOR SHALL BE REPAIRED TO THE DEPARTMENT AT THE CONTRACTOR'S EXPENSE. ALL TEMPORARY REPAIRS REQUIRED TO KEEP THE . WHILE MATERIAL IS BEING OBTAINED TO MAKE SPLICING OF ELECTRIC CABLE SHALL NOT BE CABLE SHALL BE REPLACED FROM POLE TO POLE

EMINDED TO CAREFULLY EXAMINE THIS CONTRACT FOR NEW OR ROM ANY PRVIOUS VERSION HE MAY HAVE EXAMINED.

GED GUARDRAIL AND DAMAGED POSTS SHALL NOT BE PAID SHALL BE CONSIDERED INCLUDED IN THE COST OF THE PAY ITEMS.

REQUIRED FOR THE REPAIRS OR INSTALLATION OF GUARDRAIL ONSIDERED INCIDENTAL TO THE VARIOUS PAY ITEMS OF IN ACCORDANCE WITH THE TRAFFIC CONTROL STANDARDS

BOLTS, WASHERS, STAPLES, WIRES, TIES, ETC.) REQUIRED OR INSTALLATION OF GUARDRAIL AND FENCE SHALL BE L TO THE VARIOUS PAY ITEMS OF WORK IN THIS CONTRACT.

L BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY PERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD J.U.L.I.E. NUMBER IS 1-800-892-0123. A MINIMUM OF 48 HOURS COUIRED.

E STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT THREE
PREPARED BY: Dave Burnick DISTRICT STUDIES & PLANS ENGINEER
DATE: <u>3-26-2.013</u>
EXAMINED BY:
DISTRICT MATERIALS ENGINEER
• D-3 HIGHWAY DAMAGE REPAIR 2014

								(1)	(2)	(3)	
			<u></u>					07MOA,01	07MOA. 072	07M0A. 023	
								CONSTR. CODE	CONSTR. CODE	CONSTR. CODE	
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		0005					TOTAL	CAFETY	CAFETY	& SAFELY LIEMS	-
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]								
		63100045	TRAFFIC BARRIER TE	ERMINAL, TYPE 2		EACH	2	2	0	0	
		63100070	TRAFFIC BARRIER TE	ERMINAL, TYPE 5		EACH	1	1	0	0	
				· · · · · · · · · · · · · · · · · · ·							559 -
		63100085	TRAFFIC BARRIER TO	ERMINAL. TYPE 6		EACH	1	1	0	0	
		63100087	TRAFFIC BARRIER TH	ERMINAL. TYPE 6A	·	EACH	1	1	0	0	
										-	
		63100089	TRAFFIC BARRIER TO	ERMINAL. TYPE 68		EACH	1	1	0	0	
								-			
		63100095	TRAFFIC BARRIER TE	ERMINAL TYPE 8		FACH	1	1	0	۲	
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		63100101				EACH	1		0	<u> </u>	Y
			INAFFIC DARATER IS	ERMINAL, HIFE 3		CACN	1	\$		0	
		63100105				CACH	1			<u>^</u>	
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		C7100115			······································	EACH			0	0	
		63100115	TRAFFIC BARRIER I	ERMINAL, ITPE 12		EACH	1	1		U	
					A TANGGAR	C 4 C 11				10	
		63100167	IKAFFIC BARRIER I	ERMINAL, ITPE I (SPECIAL	I IANGENI	EALH	35	20	5	10	
		C7100100			> 51 4050	C 10''				4	
		63100169	IKAFFIC BARRIER TE	ERMINAL, TYPE 1 (SPECIAL	J FLAKEU	EACH	4	2	1	1	
										• • • •	
		63301210	REMOVE AND REERECT	I SIEEL PLATE BEAM GUAR	URAIL, TYPE A	F007	150	0	50	100	
										· · ·	
		63301215	REMOVE AND REERECT	I STEEL PLATE BEAM GUAR	DRAIL, TYPE B	FOOT	50	0	10	40	
										<u>.</u>	
		63400105	GUARD POSTS			EACH	100	50	10	40	
	1										
	14	L	I			L					D-3 HIGHWAY DAMAGE REPAIR 201
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	NO.		I TEN	f	UNIT	QUANTITY	0021	0021	0021
	64300260	IMPACT ATTENUATOR	S (FULLY REDIRECTIVE, N	ARROW), TEST LEVEL 3	EACH	2	1	0	1
****	66400105	CHAIN LINK FENCE.	4'		FOOT	300	150	150	0
	66400305	CHAIN I INK FFNCF	6′		FOOT	350	200	150	^
		and a start a start i should be start a			ruui		200 ·	100	V
*****	66500105	WOVEN WIDE EENCE	<i>A</i> '		5007	10000	E000	5000	~
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	67100100				I CERT	1	О Е	0.5	^
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The second	78200410	GUARDRAIL MARKERS	. ΤΥΡΕ Α		FACH	225	195	20	80
			,						
		CLARE SCREEN REPAI	19		EACH		0		
	×03 80 ×07		14		EACH			20	80
	Y0321563		DDIED TEDMINAL TYDE 1 C		E A CH				1 C
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	10322010	FIMULIY CURD			F001	26	32	U	U
	X0326126	WOOD TERMINAL POST	Τ		EVUN	-	1		
					LMUN		L		U
Contraction of the Association o	X0327278	REPAIR HIGH TENSIO	ON CABLE		FOOT	2300	1800		500
THE REAL PROPERTY AND INCOME.	X0327279	REPLACE HIGH TENSI	ION CABLE END SECTION		EACH	3	1	0	2
		·····				-	-		
	X0327281	REMOVE AND REPLACE	E HIGH TENSION CABLE PO	 ST	EACH	1100	600	0	500
								-	
	X0327282	REMOVE AND REPLACE	E HTC POST (HEAVY DUTY)		EACH	150	50	0	100
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CODE	y warman , ,		IOTAL	SAFEIY	SAFEIY	SAFEIY	
<u>NO.</u>	LIEM			0021	0021	0021	
X6300215	RAIL ELEMENT PLATES	EACH	560	320	40	200	
×6300230	STEEL POSTS	FACH	600	300	60	240	
X6331101	TUBULAR THRIE BEAM	FOOT	150	100	10	40	
X6331105	STEEL POSTS, MODIFIED	EACH	5	5	0	0	
X6331110	STEEL POSTS. SPECIAL	EACH	50	0	10	40	
X6432110	REPLACE IMPACT ATTENUATORS (NON-REDIRECTIVE). TEST LEVEL 3	EACH	190	150	5	35	
X6610200	HOT-MIX ASPHALT CURB REPAIR	FOOT	100	100	0	0	
X6640502	CHAIN LINK FENCE POST	EACH	21	15	6	0	
70000700			170	20	E0		
20008760	EMERGENCY WORK LALL OUT	LACH	110	/ / U	50		
20012752	CONCRETE STRUCTURE REPAIR	CU FT	15	15	0	0	
20020210	PULL POST ARRANGEMENT	EACH	25		15	U	
Z0026305	FURNISHING AND MAINTAINING AUTOMOTIVE VEHICLES	CAL MO	12	12	0	0	
Z0029657	HIGH TENSION CABLE SYSTEM MAINTENANCE	EACH	1400	600	0	800	
Z0029659	FURNISH AND INSTALL HIGH TENSION CABLE FOUNDATION AND POST	EACH	45	20	0	25	
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							V				
		20053575	REPAIR TRAFFIC BARR	(IER IERMINAL, TYPE 12		LACH	1	1	0	0	
										~	
		Z0053500	REPAIR TRAFFIC BARR	IER TERMINAL, TYPE 9		EACH	1	1	0	0	
	1		5								
	ļ	20053400	TEPAIR INAFFIC BARK	ILER IERMINAL, ITPE 8	····	LACH	L .	ł	· · · · · · · · · · · · · · · · · · ·	0	
		70053400		TED TEDMINAL TYDE O		EACH	1		0	<u>^</u>	
								•			
		20053220	REPAIR TRAFFIC BARE	TER TERMINAL. TYPE 68	<u></u>	EACH	2	2	0	0	
	1. A first of the second s										
										· · · · · · · · · · · · · · · · · · ·	
		Z0053210	REPAIR TRAFFIC BARR	IER TERMINAL, TYPE 6A		EACH	2	2	0	0	
	8 			·							
							[			· · · ·	
		Z0053200	REPAIR TRAFFIC BARR	HER TERMINAL, TYPE 6		EACH	2	2	0	0	
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		Z0053000	REPAIR TRAFFIC BARR	IER TERMINAL, TYPE 5		EACH	1	1	0	0	
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		70052900	REPAIR TRAFFIC RADE	IFR TERMINAL TYPE 4		FACH	1	1	G	0	
										· · · · ·	
		Z0052800	REPAIR TRAFFIC BARR	IER TERMINAL, TYPE 3A		EACH	1	1	0	0	
				·····							
	**************************************		1	<u></u>							
		Z0052700	REPAIR TRAFFIC BARF	IER TERMINAL, TYPE 3		EACH	1	1	0	0	
										-	
		20052600	KEPAIK IRAFFIC BARF	CIER IERMINAL, TYPE Z		LACH	1	1	U	0	
		70050505					· · · · · ·	5			
								-			
	uunoo oo uu								-		
		20052400	REPAIR TRAFFIC BARE	IER TERMINAL. TYPE 1		EACH	2	1	0	1	
				******							
		Z0029665	REPAIR TRAFFIC BARF	IER TERMINAL TYPE I SPEC	IAL - RAIL ELEMENT PLATE	FOOT	500	0	100	400	
		·····		·							
		Z0029660	FURNISH AND DRIVE M	ETAL SOCKET WITH POST		EACH	20	10	0	10	
			· · · · · · · · · · · · · · · · · · ·								
			5-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1								
		NO.	······································	ITEM		UNIT	QUANTITY	0021	0021	0021	
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	Construction of the second s				· · · · · · · · · · · · · · · · · · ·					& SAFETY ITEMS	
19. A.M.								MCHD	CONTR. MAINT.	HTC BARRIER	
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								CONSTR. CODE	CONSTR. CODE	CONSTR. CODE	
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DEPARTMENT OF TRANSPORTATION SCALE:

CONTRACT NO. 66CT6 TO STA.





# **REFLECTOR DETAIL**

					• D-3 HIG	HWAY DAMAGE	REPAIR	2014
_			F.A. RTE.	SEC	TION	COUNTY	TOTAL SHEETS	SHEET NO.
R	KER PLA	CEMENT DETAIL	VAR.	•		VAR.	43	7
						CONTRACT	NO. 6	6C76
	STA.	TO STA.	FED. RC	AD DIST. NO.	ILLINOIS FED. AI	D PROJECT		

TRIN	NITY CABLE TENSIONS	
	PRE-STRETCHED	STANDARD
	CABLE	CABLE
TEMPERATURE	TENSION	TENSION
°F	LBS	LBS
-15	7500	8800
-10	7300	8600
-5	7100	8400
0	7000	8200
5	6800	8000
10	6600	7800
15	6500	7600
20	6300	7400
25	6100	7200
30	6000	7000
35	5800	6800
40	5600	6600
45	5500	6400
50	5300	6200
55	5100	6000
60	5000	5800
65	4800	5600
70	4600	5400
75	4500	5200
80	4300	5000
85	4100	4800
90	4000	4600
95	3800	4400
100	3600	4200
105	3500	4000
110	3300	3800

NUCOR CABLE TENSION								
CABLE	INITIAL	EXPECTED						
TEMPERATURE	TENSION	TENSION						
°F	W/15%							
-30	13706	11918						
-20	12979	11286						
-10	12252	10654						
0	11525	10022						
10	10800	9391						
20	10073	8759						
30	9346	8127						
40	8619	7495						
50	7894	6864						
60	7167	6232						
70	6440	5600						
80	6077	5284						
90	5713	4968						
100	5350	4652						
110	4986	4336						
120	4624	4021						

### TENSION CHECK REQUIREMENTS

CHECKING AND CORRECTING THE TENSION IN EACH CABLE SHALL BE PERFORMED EACH TIME A CABLE IS SPICED AND HTC SYSTEM MAINTENANCE IS SPECIFIED. THE RECOMMENDED TENSIONS FOR EACH SYSTEM ARE SHOWN IN THE CHARTS. THE RESULT OF EACH CHECK SHALL BE RECORDED ON A COPY OF THE TENSION LOG SHEET SHOWN ON THIS SHEET. THE COMPLETED LOG SHALL BE SUBMITTED TO THE SAFETY AND CLAIMS MANAGER.

TOLERANCE: -200 TO +800 POUNDS

GIBRALTAR CABLE TENSIONS							
CABLE	CABLE						
TEMPERATURE	TENSION						
°F	LBS						
-30							
-20							
-10	8000						
0	7600						
10	7200						
20	6800						
30	6400						
40	6000						
50	5600						
60	5200						
70	4800						
80	4400						
90	4000						
100	3600						
110	3200						

BRIFEN CABLE TENSIONS							
ROPE							
TEMPERATURE	TENSION						
F°	LBS						
0	7300						
8	7000						
16	6700						
24	6400						
32	6100						
40	5800						
48	5500						
56	5200						
64	4800						
72	4500						
76	4400						
80	4200						
88	3900						
96	3600						
100	3500						
104	3300						
108	3200						
112	3000						

, i	System	
	Brifen	
	USHTCS (Nucor)	
	Gilbraltar	
	Trinity (CASS)	

Ambient Temp

Rope Temp:

3 or 4 Cable System	Location 1 Actual Load kN/LB	Location 2 Actual Load kN/LB	Location 3 Actual Load kN/LB	Average Load (L1+L2+L3/3) kN/LB	Design Load kN/LB (see charts)
Top Cable					
Cable 2					
Cable 3 (If Applicable)					
Bottom Cable					

Note: Readings should be taken at 3 separate places along each cable, moving the tension meter at least 4" between readings. The average load is compared to design load for tolerance.

Number of splices made to the cable:

Were tensioning adjustments made to the cable:

Is 1" (minimum) of thread exposed in all turnbuckle windows:

Splice Type & Location (s):

Testing Equipment Used

Printed Name & Signature of Tester:

Other Notes:

FILE NAME =	USER NAME = corcoranlm	DESIGNED -	REVISED -			
c:\pw_work\pwidot\corcoranlm\d0329287\[	B66C76-sht-details.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS		HTC CABLE TENSION C
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		
	PLOT DATE = 3/25/2013	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS

# Illinois Department of Transportation

**TENSION LOG SHEET** FOR High Tension Cable Barrier

Date / Time:

Contract / Work Order No.

County:

Route:

Milepost/ GPS:

## IDOT Inspector Initials (if Present):

					• D-3 HIC	GHWAY DAMAGE	REPAIR	2014
CHARTS & LOGS		F.A. RTE.	SEC	TION	COUNTY	TOTAL SHEETS	SHEET NO.	
		VAR.	•	•		43	8	
					CONTRACT	NO. 6	6C76	
S	TA.	TO STA.	FED. F	ROAD DIST. NO.	ILLINOIS FED. A	ID PROJECT		
STA. TO STA.		FED. F	ROAD DIST. NO.	ILLINOIS FED. A	CONTRACT	NO. 6	6C.	



								<ul> <li>D-3 HIGHW</li> </ul>	AY DAMAGE REP	PAIR 2014
FILE NAME =	USER NAME = corcoranlm	DESIGNED -	REVISED -		т		F.A. SECT	ION	COUNTY TO	OTAL SHEET
c:\pw_work\pwidot\corcoranlm\d0329287\D	866C76-sht-details.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	0 014	INIDER CURD & DITUMINUUS CURD REFAIR	VAR.		VAR.	43 9
	PLOT SCALE = 100.0000 ' / 10.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	& GUA	IND POST DETAIL & IMPACT ATTENUATUR PLAN			CONTRACT N	NO. 66C76
	PLOT DATE = 3/25/2013	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID	PROJECT	

1.	THE PAY ITEM "REPLACE IMPACT ATTENUATORS, (NON-REDIRECTIVE), TEST LEVEL 3" HAS BEEN INCLUDED TO REPLACE INDIVIDUAL DAMAGED SAND MODULES.
2.	REPLACEMENT MODULES SHALL MATCH THE KIND OF MODULES THAT ARE REMAINING.
3.	IMPACT ATTENUATORS SHALL BE IN ACCORDANCE WITH SECTION 643 FOR IMPACT ATTENUATORS.
4.	THIS SHEET SHOWS THE LAYOUT INFORMATION FOR REPLACEMENT OF SAND MODULES (IMPACT ATTENUATORS) AT A TYPICAL INTERSTATE LOCATION.
5.	ADJACENT SAND MODULE IMPACT ATTENUATORS THAT ARE NOT DAMAGED, BUT HAVE BEEN SHIFTED LATERALLY FROM THEIR ORIGINAL POSITION SHALL BE REALIGNED OR MOVED BACK TO THEIR ORIGINAL POSITION, AS DIRECTED BY THE ENGINEER. REALIGNMENT OR MOVING OF ADJACENT UNDAMAGED MODULES SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF REPLACEMENT. THE WORK TO REALIGN OR SHIFT UP TO 2 MODULES SHALL BE INCLUDED WITH EACH REPLACED SAND MODULE IMPACT ATTENUATOR.



FILE NAME =	USER NAME = corcoranlm	DESIGNED -	REVISED -			TURULAR THRIF REAM	F.A. BTE	SECTION	COUNTY TOTAL SHEET
c:\pw_work\pwidot\corcoranlm\d0329287\D3	366C76-sht-details.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS		DETROEIT DAIL FOR BRIDGES	VAR.	•	VAR. 43 10
_	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	KETRUFTI KAIL FUR BRIDGES			1	CONTRACT NO. 66C76
Default	PLOT DATE = 3/25/2013	DATE –	REVISED -		SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.			ILLINOIS FED. A	ID PROJECT

heads and nuts of splicing bolts for internal

•	D-3	HIGHWAY	DAMAGE	REPAIR	2014	



ILE NAME =	USER NAME = corcoranlm	DESIGNED -	REVISED -			TURULAR THRIF RFAM	F.A. RTF.	SECTION	COUNTY	TOTAL SH SHEETS	HEET I NO.
:\pw_work\pwidot\corcoranlm\d0329287\D	366C76-sht-details.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS			VAR.	•	VAR.	43	11
	PLOT SCALE = 100.0000 ' / 10.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		REINUFII NAIL FUN DRIDUES			CONTRACT	NO. 660	:76
əfault	PLOT DATE = 3/25/2013	DATE -	REVISED -		SCALE:	SHEET 2 OF 3 SHEETS STA. TO STA.		ILLINOIS FED. AI	> PROJECT		



				• D-3 HIG	HWAY DAMAGE	REPAIR	2014			
E BE	АМ		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
NR	RRIDCES		VAR.	•	VAR.	43	12			
UN .	UN DRIDGES				CONTRACT	NO. 6	6C76			
5  51	Α. Τ	O STA.		ILLINOIS FED. AI	D PROJECT					



REVISED **DEPARTMENT OF TRANSPORTATION** SCALE: SHEET NO. OF SHEETS REVISED

PLOT DATE = 3/25/2013

DATE

## GENERAL NOTES

See Standard 630001 for details of

Posts at location 1 & 2 shall be wood breakaway posts. Posts other than 1 & 2 may be either standard wood posts or steel posts, at the option of the Contractor. If standard wood posts are used, one post shall be located midway between and in lieu of posts 4 & 5. The offset (Y) for this post shall be 300 mm (12 inches).

A two-piece assembly may be substituted for the one piece nose shown above.

The bearing plate K shall be held in position by (2) two eightpenny nails driven into the post and bent over

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

All dimensions are in millimeters (inches)

<ul> <li>D-3 HIGHWAY DAMAGE REPAIR 201</li> </ul>	4

1	NAL TYPE 1 23		F.A. RTE.	SEC	TION	TOTAL SHEETS	SHEET NO.	
2			VAR.	•		VAR.	43	13
	. 23					CONTRACT	NO. 6	6C76
	STA.	TO STA.	FED. RO	AD DIST. NO.	ILLINOIS FED. A	D PROJECT		



PLOT DATE = 3/25/2013

DATE

REVISED

SCALE:

SHEET NO. OF SHEETS

•	D-3	HIGHWAY	DAMAGE	REPAIR	2014

INAL TYPE 1 3. 23		F.A. RTE.		SEC	TION			COUNTY	TOTAL SHEETS	SHEET NO.	
		VAR.	AR. •					VAR.	43	14	
								CONTRACT	NO. 6	6C76	
	STA.	TO STA.	FED. R	DAD DIST. N	10.	ILLINOIS	FED.	AID	PROJECT		



AL ITPE J Q JA		VAR.	•				VAR.	43			
								CONTRACT	NO.	66	30
STA.	TO STA.	FED. RO	AD DIST.	NO.	ILLINOIS	FED.	AID	PROJECT			_



					• D-3 HIG	HWAY DAMAGE	REPAIR	2014
			F.A. RTE.	SECTIO	ON	COUNTY	TOTAL SHEETS	SHEET NO.
N	NAL TYPE 3 & 3A			•		VAR.	43	16
						CONTRACT	NO. 6	6C76
STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								





		(	6.4(1/4) steel plate or sect	tion of rectangular		(2 ea. Type 3)					UN	unless otherwise shown.					
			Tubling with hanges	s weided off		(3 ea. ly	(pe 3A)							• D-3	IGHWAY DAMAG	E REPAIR	R 2014
E NAME =	USER NAME = corcoranlm	DESIGNED -	REVISED -								F,	.A.	SECTION	COUNTY	TOTAL	SHEET	
pw_work\pwidot\corcoranlm\d0329287\[	D366C76-sht-details.dgn	DRAWN -	REVISED -	STATE	OF ILLINOIS		TRAFFIC B	ARRIER	TERMIN	IAL TYPE	3& 3A	N N	VAR.	•	VAR.	43	17
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT	OF TRANSPORTATION							CONTRAC	T NO.	66C76			
	PLOT DATE = 3/25/2013	DATE -	REVISED -			SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	F!	ED. ROAD DIST. N	. ILLINOIS FEE	AID PROJECT		

TYPE 3 & 3A









# **DETAIL INCLUDED** FOR REPAIR ONLY

All dimensions are in millimeters (inches) unless otherwise shown.



OFFSE	TS TO FACI	e of rail
POST	DISTANCE m X (ft.)	OFFSET m Y (ft.)
POINT 0	0 (0)	0 (0)
4	7.60 (24.93)	0.56 (1.83)
8	15 <b>.</b> 14 (49 <b>.</b> 68)	1.60 (5.28)
(12)	22.60 (74.16)	<b>3.16</b> (10 <b>.</b> 37)
(16)	<b>29.94</b> (98.23)	5.20 (17.05)
20	37.13 (121.83)	7.71 (25.3)
(24)	44.14 (144.83)	10 <b>.</b> 70 (35.09)

Offsets (Y) are measured between the face of rail and the offset baseline, which is parallel to the pavement edge and passes through point 0.

The location of point 0 will vary, being dependent on structure details and the type of traffic barrier terminal utilized.

# GENERAL NOTES

See Standard 630001 for details of guardrail not shown.

*For dual structures skewed right forward, the nose of the Type 4 terminal shall be positioned longitudinally away from the structure for a distance equal to dimension Z. Appropriate adjustments to the length of the Type A guardrail and its offsets (Y) shall be calculated and used. All additional lengths of guardrail shall be in increments of 3.87 m (12'-6").

For dual structures that are 90°, or skewed left forward, the length of guardrail is appropriate.

The bearing plate K shall be held in position by (2) two eight penny nails driven into the post and bent over the top of the plate.

All slopes are expressed as units of vertical displacement to units of horizontal displacement (V:H).

All dimensions are in millimeters (inches) unless otherwise shown.

# **DETAIL INCLUDED** FOR REPAIR ONLY

All dimensions are im millimeters (inches)

					• D-3 HIG	HWAY DAMAGE	REPAIR	2014
		F.A. RTE.	SEC	LION	COUNTY	TOTAL SHEETS	SHEET NO.	
ł	MINAL TYPE 4		VAR.	•		VAR.	43	18
						CONTRACT	NO. 6	6C76
	STA.	TO STA.	FED. RC	DAD DIST. NO.	ILLINOIS FED. A	ID PROJECT		







		RTE.	SECTION		CODINIT	SHEET	S NO.
MINAL IY	VIINAL TYPE 9		•		VAR.	43	21
					CONTRACT	NO.	66C76
STA.	TO STA.		ILLINOI	S FED. A	ID PROJECT		



													• D-3	HIGHWAY DAMAG	1 REPAIR	2014
FILE NAME =	USER NAME = corcoranim	DESIGNED -	REVISED -								F.A.	SECTION	COUNTY	TOTAL	SHEET	
c:\pw_work\pwidot\corcoranlm\d0329287\E	B66C76-sht-details.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	TRAFFIC BARRIER TERMINAL TYPE 12					VAR.	•	VAR.	43	22		
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION						-			CONTRAC	T NO. F	66C76	
Default	PLOT DATE = 3/25/2013	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	S ST	Α.	TO STA.		ILLINOIS FE	D. AID PROJECT		
															-	-



										• D-3 HIC	GHWAY DAMAGE	REPAIR 2	.014
=	USER NAME = corcoranlm	DESIGNED -	REVISED -			PRE-MGS EFFECTIVE	4–1–06	F.A. RTE	SECTI	ON	COUNTY	TOTAL S	HEET
\pwidot\corcoranlm\d0329287\D	D366C76-sht-details.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS		STEEL PLATE BEAM GU	JARDRAIL	VAF			VAR.	43	23
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		STANDARD 630001	-06 (Sheet 1 of	F 4)	<u> </u>		CONTRACT	T NO. 66	C76
	PLOT DATE = 3/25/2013	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED.	ROAD DIST. NO.	LINOIS FED. A	ID PROJECT		-

D 7 ULCUWAY DAMAGE DEDAID 2014



									• D-3 HIGH	WAY DAMAGE	REPAIR 2014
FILE NAME =	USER NAME = corcoranlm	DESIGNED -	REVISED -			PRE-MGS EFFECTIVE 4-1-06		F.A. SEC	TION	COUNTY	TOTAL SHEET
c:\pw_work\pwidot\corcoranlm\d0329287\D	366C76-sht-details.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	E OF ILLINOIS STEEL PLATE BEAM GUARDRAIL		VAR.		VAR.	43 24	
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION STANDARD 630001–06 (Sheet 2 of 4)		(Sheet 2 of 4)			CONTRACT	NO. 66C76	
	PLOT DATE = 3/25/2013	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AI	PROJECT	



END SHOE

									• D-3 HIGHWAY	Y DAMAGE	REPAIR 2014
FILE NAME =	USER NAME = corcoran1m	DESIGNED -	REVISED -			PRE-MGS EFFECTIVE 4-1-06		F.A. SI	CTION C	COUNTY	TOTAL SHEET
c:\pw_work\pwidot\corcoranlm\d0329287\E	366C76-sht-details.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS		STEEL PLATE BEAM GUARDRAIL		VAR.	•	VAR.	43 25
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	STANDARD 630001–06		(Sheet 3 of 4)		C	ONTRACT	NO. 66C76
	PLOT DATE = 3/25/2013	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PR	ROJECT	





V

0 - 460 (0 - 18)

>460 - 825 (>18 - 41.5)

>825 - 1.13 m (>41.5 - 53.5)

If it is necessary for D to be more than 300 (12) and less than 3.0 m (10'-0'') type M-5 (M-2) curb and gutter (Std. 606001) shall be used in front of and in advance of the guardrail.

## GUARDRAIL PLACED BEHIND CURB

(D = 0 desirable to **300** (12) maximum)

W

610 (24)

305 (12)

305 - 0 (12 - 0)





L	-	<u>→ M24x</u> (1×7
Steel Post	Wood Post	
530 (21)	580 (23)	
203 (8)	250 (10)	M24 (1) double nuts or locknuts
203	250	

CABLE ASSE (18,100 kg (40,000 lbs.) min. breaking strength) Tighten to taut tension.

PLAN
Finished ground line Ledge Drilled Hole Ledge ine is top of rock ledge or hard slag fill.

Optional -round

hole

_203(8) min. (Steel post) 250(10)min. (Wood post)

# FOOTING FOR POST WHEN IMPERVIOUS MATERIAL IS ENCOUNTERED

									• D-3 HIC	HWAY DAMAGE	E REPAIR 20	014
FILE NAME =	USER NAME = corcoranlm	DESIGNED -	REVISED -			PRE-MGS EFFECTIVE 4-1-06		F.A. RTF	SECTION	COUNTY	TOTAL SH	HEET NO.
c:\pw_work\pwidot\corcoranlm\d0329287\E	B66C76-sht-details.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS		STEEL PLATE BEAM GUARDRAIL		VAR.	•	VAR.	43	26
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		STANDARD 630001–06	(Sheet 4 of 4)			CONTRAC	T NO. 660	C76
	PLOT DATE = 3/25/2013	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS STA.	TO STA.	FED. ROAD DIST.	NO. ILLINOIS FED. A	ID PROJECT		

203 (8)



											<ul> <li>D-3 HIGHWAY DAMA</li> </ul>	GE REPAI	IR 2014
FILE NAME =	USER NAME = corcoranlm	DESIGNED -	REVISED -			PRE-MGS EFF	ECTIVE	4–1–06		F.A. S	ECTION COUNTY	TOTA	L SHEET
c:\pw_work\pwidot\corcoranlm\d0329287\D	366C76-sht-details.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	GUARDRAIL MOUNTED ON EXISTING CULVERTS				VAR.	• VAR.	43	27	
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		STANDARD	630101	-06	(Sheet 1 of 2)		CONTRA	CT NO.	66076
	PLOT DATE = 3/25/2013	DATE -	REVISED -		SCALE:	SHEET NO. OF	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

specified for case II, III, and IV are the

heavy hex nuts and standard washers.





CROSS SECTION



SECTION C-C

CASE IV MOUNTED ON SLAB

									• D-3 HIGHWA	Y DAMAGE	REPAIR 2014
FILE NAME =	USER NAME = corcoranlm	DESIGNED -	REVISED -			PRE-MGS EFFECTIVE 4-1-06		F.A. SE	CTION	COUNTY	TOTAL SHEET
c:\pw_work\pwidot\corcoranlm\d0329287\D	366C76-sht-details.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	GUA	RDRAIL MOUNTED ON EXISTING CULVERTS		VAR.	•	VAR.	43 28
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		STANDARD 630101–06	(Sheet 2 of 2)		C	ONTRACT	NO. 66C76
	PLOT DATE = 3/25/2013	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PR	ROJECT	



SECTION B-B

CASE III MOUNTED ON HEADWALL WITH CURVED OR DEMOLISHED TIP

All dimensions are in millimeters (inches) unless otherwise shown.



•	D-3	HIGHWAY	DAMAGE	REPAIR	2014	
				TOTAL	CHEET	Ē

		SECTION				COUNTY	TOTAL SHEETS	SHEET NO.
ECIAL) GUARDRAIL TERMINALS		•				VAR.	43	29
301-03 (Sheet 1 of 2)						CONTRACT	NO. 6	6C76
STA. TO STA.	FED. RC	AD DIST. NO.	ILLINOIS	FED.	AID	PROJECT		



												- 0 2 110	MAT DAMAGE	NEI AIN	2014
FILE NAME =	USER NAME = corcoranlm	DESIGNED -	REVISED -		I	PRE-N	/IGS E	FFECTI	VE 4–1–06		F.A.	SECTION	COUNTY	TOTAL	SHEET
c:\pw_work\pwidot\corcoranlm\d0329287\E	366C76-sht-details.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	SHOULDER WIDENING	G FOR	TYPE	E 1 (SP	ECIAL) GUARDF	RAIL TERMINALS	VAR.	•	VAR.	43	30
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		ST/	ANDAI	RD 630	301-03	(Sheet 2 of 2)			CONTRAC	T NO. F	6076
	PLOT DATE = 3/25/2013	DATE -	REVISED -		SCALE: SHEET N	٥.	OF	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO	. ILLINOIS FED. AI	PROJECT		

• D-3 HIGHWAY DAMAGE REPAIR 2014



								• D-3 HI	GHWAY DAMAGE	E REPAIR 2014
FILE NAME =	USER NAME = corcoranlm	DESIGNED -	REVISED -			PRE-MGS EFFECTIVE 4-1-06	F.A. BTE	SECTION	COUNTY	TOTAL SHEET
c:\pw_work\pwidot\corcoranlm\d0329287\D	366C76-sht-details.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS		TRAFFIC BARRIER TERMINAL TYPE 2	VAR	•	VAR.	43 31
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		STANDARD 631011–02			CONTRAC	T NO. 66C76
	PLOT DATE = 3/25/2013	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED.	ROAD DIST. NO. ILLINOIS FED.	AID PROJECT	

See Standard 630001 for details of

position by (2) two eight penny nails driven into the post and bent over

All dimensions are in millimeters (inches) unless otherwise shown.



•	D-3	HIG	HWAY	DAMAGE	REPAIR	2014
					TOTAL	CUEET

	4-1-06		F.A. RTE			SEC	TION			COUNTY	TOTAL SHEETS	SHEET NO.	
L	TYPE 5	& 5A	VAR			•				VAR.	43	32	
6	-02		_							CONTRAC	T NO. 6	6C76	1
	STA.	TO STA.	FED.	ROAD	DIST.	NO.	ILLINOIS	FED.	AID	PROJECT			1
													1

![](_page_32_Figure_0.jpeg)

								<ul> <li>D-3 HIGHWAY DAMAGE REPAIR 2014</li> </ul>
FILE NAME =	USER NAME = corcoranlm	DESIGNED -	REVISED -		PRE-MGS EFFECTIVI	4–1–06	F.A. SECTION	N COUNTY TOTAL SHEET
c:\pw_work\pwidot\corcoranlm\d0329287\D	866C76-sht-details.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	TRAFFIC BARRIER TERM	INAL, TYPE 6	VAR.	VAR. 43 33
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	STANDARD 6310	<b>31-05</b> Sheet 1 of 3		CONTRACT NO. 66C76
	PLOT DATE = 3/25/2013	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. ILLI	INDIS FED. AID PROJECT

# PARAPET OR WINGWALL

Pay limits of other type

## GENERAL NOTES

See Standard 630001 for details of guardrail not shown.

Thrie beam rail shall be bolted to block-out

See Standard 420401 for details of bridge approach pavement.

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

All dimensions are in millimeters (inches) unless otherwise shown.

![](_page_33_Figure_0.jpeg)

									• D-3 HIG	HWAY DAMAGE	REPAIR 2014
FILE NAME =	USER NAME = corcoranlm	DESIGNED -	REVISED -			PRE-MGS EFFECTIVE 4-1-06		F.A. SI	ECTION	COUNTY	TOTAL SHEET
c:\pw_work\pwidot\corcoranlm\d0329287\D	366C76-sht-details.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS		TRAFFIC BARRIER TERMINAL, TYPE 6		VAR.	•	VAR.	43 34
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		STANDARD 631031–05	Sheet 2 of 3			CONTRACT	NO. 66C76
	PLOT DATE = 3/25/2013	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AI	D PROJECT	

# OTHER CONCRETE STRUCTURE

![](_page_34_Figure_0.jpeg)

FILE NAME =	USER NAME = corcoranlm	DESIGNED -	REVISED -			PRE-MGS EFFECTIVE 4-1-06	F.A. S	SECTION	COUNTY	TOTAL SHEETS	HEET
c:\pw_work\pwidot\corcoranlm\d0329287\D	366C76-sht-details.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS		TRAFFIC BARRIER TERMINAL, TYPE 6	VAR.	•	VAR.	43	35
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		STANDARD 631031-05 Sheet 3 of 3			CONTRAC	T NO. 66	C76
	PLOT DATE = 3/25/2013	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	. ILLINOIS FED. A	ID PROJECT		

98 (3⁷/₈)

![](_page_34_Figure_3.jpeg)

• D-3 HIGHWAY DAMAGE REPAIR 2014

![](_page_35_Figure_0.jpeg)

FILE NAME =	USER NAME = corcoranlm	DESIGNED -	REVISED -			PRE-MGS EFFECTIVE 4-1-06		F.A. SE	CTION COL	JNTY TO	TAL SH	EET
c:\pw_work\pwidot\corcoranlm\d0329287\D	366C76-sht-details.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	Т	RAFFIC BARRIER TERMINAL, TYPE 6A		VAR.	• v	AR. 4	43	36
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		STANDARD 631032-02	Sheet 1 of 3		CON	ITRACT NO	0. 660	76
	PLOT DATE = 3/25/2013	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJE	ECT		

### GENERAL NOTES

This standard shows attachment to curb mounted bridge rail. Attachment to side mounted bridge rail is similar.

See Standard 630001 for details of

Thrie beam rail shall be bolted to block-out

See Standard 420401 for details of bridge

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

All dimensions are in millimeters (inches) unless otherwise shown.

	• D-3 HIG	HWAY DAMAGE	REPAIR	2014
F.A.	SECTION	COLINITY	TOTAL	SHEET

![](_page_36_Figure_0.jpeg)

![](_page_36_Figure_1.jpeg)

									· D-J HIGHWAT DAMP	AUE REFAIR	.R 2014
FILE NAME =	USER NAME = corcoranlm	DESIGNED -	REVISED -			PRE-MGS EFFECTIVE 4-1-06		F.A. S	ECTION COUNTY	TOTAL	
c:\pw_work\pwidot\corcoranlm\d0329287\D	366C76-sht-details.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS		TRAFFIC BARRIER TERMINAL, TYPE 6	Α	VAR.	• VAR.	43	37
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		STANDARD 631032–02	Sheet 2 of 3		CONTRA	ACT NO.	66C76
	PLOT DATE = 3/25/2013	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

![](_page_36_Figure_3.jpeg)

• D-3 HIGHWAY DAMAGE REPAIR 2014

![](_page_37_Figure_0.jpeg)

								•	<ul> <li>D-3 HIGHWAY</li> </ul>	Y DAMAGE RE	EPAIR 2	2014
FILE NAME =	USER NAME = corcoranlm	DESIGNED -	REVISED -			PRE-MGS EFFECTIVE 4-1-06	F	F.A. SECTION	i (		OTAL S	SHEET
c:\pw_work\pwidot\corcoranlm\d0329287\D	366C76-sht-details.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS		TRAFFIC BARRIER TERMINAL, TYPE 6A	Ľ	VAR. •		VAR.	43	38
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		STANDARD 631032-02 Sheet 3 c	f 3		С	ONTRACT N	NO. 6F	C76
	PLOT DATE = 3/25/2013	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS STA. TO STA.	F	FED. ROAD DIST. NO. ILLIN	NOIS FED. AID PF	ROJECT		

Dimensions	А	В
For Curb	222	89
Mounted Rail	(8¾)	(3  / ₂ )
For Side	247	64
Mounted Rail	(9¾)	(2  / ₂ )

![](_page_38_Figure_0.jpeg)

									<ul> <li>D-3 HIGHWAY</li> </ul>	DAMAGE RF	EPAIR 2014
FILE NAME =	USER NAME = corcoranlm	DESIGNED -	REVISED -		PRE-MGS EFFECTIVE 4-1-06				SECTION COL		OTAL SHEET
c:\pw_work\pwidot\corcoranlm\d0329287\D	366C76-sht-details.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS		TRAFFIC BARRIER TERMINAL, TYPE 6B		VAR.	• v	AR.	43 39
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		STANDARD 631033–01	Sheet 1 of 2		CON	TRACT N	NO. 66C76
	PLOT DATE = 3/25/2013	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJE	ECT	

![](_page_39_Figure_0.jpeg)

![](_page_39_Picture_1.jpeg)

MODIFIED THICKNESS WOOD BLOCKOUT DETAIL

POSTS 1-11 WOOD BLOCKOUT DETAIL

Concrete

structure

152 (6)

50 (2)

WOOD BLOCKOUT C

Thrie beam

38 (1¹/₄)

98 (3⁷/₈)

65

132

![](_page_39_Figure_5.jpeg)

![](_page_39_Figure_6.jpeg)

![](_page_39_Figure_7.jpeg)

# WOOD BLOCKOUT D

Bolt to thrie beam with M20( $\frac{3}{4}$ ) by 100(4) bolt, washer & nut. Reverse direction of insertion. *

									• D-3 HIGHWAY DAM/	GE REPAT	₹ 2014
FILE NAME =	USER NAME = corcoranlm	DESIGNED -	REVISED -			PRE-MGS EFFECTIVE 4	-1-06	F.A. S	SECTION COUNTY	TOTAL	SHEET
c:\pw_work\pwidot\corcoranlm\d0329287\D	66C76-sht-details.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	TRAFFIC BARRIER TERMINAL, TYPE 6B			VAR.	• VAR.	43	40
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		STANDARD 631033	-01 Sheet 2 of 2		CONTR/	ACT NO.	66076
	PLOT DATE = 3/25/2013	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS STA.	TO STA.	FED. ROAD DIST. NO.	. ILLINOIS FED. AID PROJECT		

![](_page_39_Figure_11.jpeg)

POST 12 WOOD BLOCKOUT DETAIL

![](_page_40_Figure_0.jpeg)

FILE NAME = USER NAME = corcoranim ci\pw_work\pwidot\corcoranim\d0329287\D366C76-sht-details.dgn PL0T_SCALE = 100.0000 ' / in.		DESIGNED -	REVISED -		PRE-MGS EFFECTIVE 4						
		DRAWN -	REVISED -	STATE OF ILLINOIS		TRAFFIC BAR	IER TERMI	NAL T			
		CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		STAND	ARD 63103	6-04			
	PLOT DATE = 3/25/2013	DATE -	REVISED -		SCALE:	SHEET NO. 0	SHEETS	STA.			

TO STA.

		• D-3 HIC	HWAY DAMAGE	REPAIR	2014
-06 TYPE 8	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	VAR.	•	VAR.	43	41
			CONTRACT	NO. 6	6C76

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

![](_page_41_Figure_0.jpeg)

													• D-3	IGHWAY DAMA	GE REPAI	₹ 2014	
ILE NAME =	USER NAME = corcoranlm	DESIGNED -	REVISED -			PRE-	-MGS E	FFECTI	VE 4-	1–06		F.A.	SECTION	COUNTY	TOTAL	SHEET	7
::\pw_work\pwidot\corcoranlm\d0329287\D366C76-sht-details.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS	TRAFFIC BARRIER TERMINAL TYP				L TYPE 9		VAR.	•	VAR.	43	42	-	
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	STANDARD 631041–01						CONTRA	CT NO.	66076	1			
	PLOT DATE = 3/25/2013	DATE -	REVISED -		SCALE:	SHEET NO.	OF	SHEE	TS S	TA.	TO STA.	FED. ROAD DI	IST. NO. ILLINOIS FEE	AID PROJECT			-

![](_page_42_Figure_0.jpeg)

FILE NAME =	USER NAME = corcoranlm	DESIGNED -	REVISED -		Í	PRE-MG	S EFFECTIVE	<u> </u>
c:\pw_work\pwidot\corcoranlm\d0329287\[	866C76-sht-details.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	-	TRAFFIC BAR	RIER TERMI	NAL T
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	1	STAN	DARD 6310	56-01
	PLOT DATE = 3/25/2013	DATE -	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.

after the posts for the bridge retrofit

### COUNTYTOTAL<br/>SHEETSSHEET<br/>NO.VAR.4343 VE 4-1-06 F.A. RTE. SECTION COUNTY MINAL TYPE 12 VAR. 1056–01 CONTRACT NO. 66C76 TO STA.

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

• D-3 HIGHWAY DAMAGE REPAIR 2014