03-06-2015 LETTING ITEM 022

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS**

FOR INDEX OF SHEETS, SEE SHEET NO. 2

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PROPOSED **HIGHWAY PLANS**

ROUTE: VARIOUS EXPRESSWAYS AND ARTERIAL HIGHWAYS – SOUTHERN PART, DISTRICT ONE GUARDRAIL REPAIR SECTION: 2014–086GRR COUNTY: VARIOUS C-91-142-15

> SEE LOCATION MAPS SHEETS 4 THRU 7

C.U.A.N. CHICAGO UTILITY ALERT NETWORK 1-312-744-7000

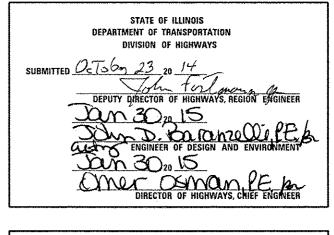
J.U.L.I.E. JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

PROJECT ENGINEER: J. ALAIN MIDY (847) 221-3056 PROJECT MANAGER: ISSAM RAYYAN (847)705-4178

CONTRACT NO. 62A33

1	F.A. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
	VAR.	2014-086GRR		VARIOUS	22	1
	FED. R	DAD DIST. NO.	ILLINDIS	CONTRACT	NO. 6	2A33





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

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- 10. TYPICAL DETAIL FOR GUARDRAIL ANCHOR BLOCK REPAIR (BM-03)
- 11. TYPICAL DETAILS FOR STEEL PLATE BEAM **GUARDRAIL ANCHORAGE REPAIR (BM-04)**
- 12. DETAIL FOR CENTER LONGITUDINAL GUARDRAIL JOINT (BM-05)
- 13. DETAIL OF STEEL PLATE BEAM GUARDRAIL SPECIAL (BM-06)
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- 15. DETAIL OF THRIE-BEAM GUARDRAIL WITH MODIFIED OFFSET BLOCK
- 16. STEEL PLATE BEAM GUARDRAIL STEEL BLOCK-OUT DETAIL
- 17. CURB REMOVAL (PARTIAL) AND SHOULDER WIDENING FOR TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL
- 18. STEEL BRIDGE RAIL DETAIL
- 19-21. T6 TERMINAL FOR USE WITH 21" HIGH SPBGR (BM-22)
- 22. TRAFFIC CONTROL DETAIL FOR SHOULDER CLOSURE AND PARTIAL RAMP CLOSURE (TC-17)

LIST OF STATE STANDARDS

	01-10	STEEL PLATE BEAM GUARDRAIL	BEFORE ST. (800) 892-0
	101-06	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS	ELECTRIC, T
	106- 08	TRAFFIC BARRIER TERMINAL, TYPE 1B	ALL WORK
6310	11- d9	TRAFFIC BARRIER TERMINAL, TYPE 2	CONTRACT
6310	26-06	TRAFFIC BARRIER TERMINAL TYPE 5	
6310	31- 13	TRAFFIC BARRIER TERMINAL, TYPE 6	GUARDRAIL RAIL TO TH
6310	36	-TRAFFIC-BARRIER-TERMINAL, TYPE-8-	DALL IV H
6350	106- 03	REFLECTOR AND TERMINAL MARKER PLACEMENT	REMOVAL (
6350	11-02	REFLECTOR MARKER AND MOUNTING DETAILS	HAULING A
7010	06-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE	UNDERED U
7010	11-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY	NO MATER
7011	01-04	OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE	WORKING
7012	101- 04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH	ANY NECES
7013	101- 04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS	APPROPRIA
7014	100- 08	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY	THE LIMITS
7014	101- 09	LANE CLOSURE, FREEWAY/EXPRESSWAY	THE REPLA THESE LIM
7014	106-09	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY	
7014	11-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEED \geq 45 MPH	REMOVED DELINEATEI
7015	i 01- 06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED	WITHOUT E
7016	106- 10	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN	TIME.
7017	101- 09	URBAN LANE CLOSURE, MULTILANE INTERSECTION	GUARDRAIL
7018	101-05	LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE	THE CONTR
7019	101-04	TRAFFIC CONTROL DEVICES	THE CONTR ELECTRICAL
7200)11-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS	INDERGROU
, ,	· ·		THE CONTR

Ī	FILE HAVE :	USER NAME : estargenp	DESIGNED -	REVISED -						
	ct/p+_work/p+idot/osborrenp/d0417906/01	A215-sht-sover.dgn	DRAWN -	REVISED ~	STATE OF ILLINOIS	INDEX O	of sheets,	STATE	STANDA	RDS A
1		PLOT SCALE = 99.9998 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	Ĺ				
	1	PLOT DATE + 10/28/2014	DATE -	REVISED -		SCALE	SHEET NO.	OF	SHEETS	STA.
4				L		·				-

GENERAL NOTES

STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT -0123 OR 811 OR "C.U.A.N." AT (312) 744-700 FOR FIELD LOCATIONS OF BURIED , TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED

K IS TO BE REPLACED IN KIND OR AS INDICATED ON THE T QUANTITY SHEET.

IL WORK WILL INCLUDE ALIGNMENT AS NECESSARY TO RESTORE THE THE ORIGINAL CONDITIONS.

OF DAMAGED MATERIALS WILL INCLUDE DISMANTLING, LOADING, AND DISPOSAL. THE WORK SITE WILL BE LEFT IN A SAFE AND CONDITION.

ERIAL SHOULD BE LEFT ON OR NEAR THE ROADWAY DURING NON-HOURS.

ESSARY TRAFFIC CONTROL WILL BE PROVIDED BY THE CONTRACTOR: IATE STANDARDS ARE HEREWITH ATTACHED.

TS OF THE DAMAGED GUARDRAIL WILL BE MARKED WITH PAINT. ACEMENT PARTS AND THE QUANTITIES INDICATED ARE WITHIN MITS AS MARKED.

GUARDRAIL THAT IS NOT REPLACED ON THE SAME DAY MUST BE TED WITH LIGHTED BARRICADES. NO LOCATIONS WILL BE LEFT EITHER LIGHTED BARRICADES OR RESTORED GUARDRAIL AT ANY

AL MARKERS SHALL NOT BE ATTACHED TO TERMINAL SECTIONS.

TRACTOR SHALL TELEPHONE THE IDOT BUREAU OF TRAFFIC OPERATIONS, AL MAINTENANCE SECTION AT 708-524-2145 TO REQUEST THE LOCATE FOR OUND ELECTRICAL AND/OR FIBER CABLE PRIOR TO ANY DIGGING AS PER THE CONTRACT.

REMOVAL OF EXISTING TERMINAL SECTIONS INCLUDED IN COST OF NEW TERMINAL SECTIONS

		F.A. RTÉ.		SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.
AND	GENERAL NOTES	VAR.	VAR. 2014-086GRR				VARIOUS	22	2
							CONTRAC	INO. E	2433
Α.	TO STA.	FEO. R	OAD DIST.	NO.	ILLINOIS FEE	. A10	PROJECT		

	SUMMARY OF QUANTITIES		URBAN	CONT,		ONSTRUCTION TY	PE CODE 0021			SUMMA	RY OF QUANTITIES		UR
CODE NO	(TEM	UNIT	TOTAL OUANTITIES	MAIN,	100% MCHD 0021				CODE NO		ITEM	UNET	TO QUANT
63000001	STEEL PLATE BEAM GUARDRALL, TYPE A, 6 FOOT POSTS	FOOT	87	70	17				x6300225	SINGLE END	SECTION	EACH	
63100041	TRAFFIC BARRIER TERMINAL, TYPE IB	EACH	2	ŧ	l				x6300230	STEEL POSTS		EACH	8
63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	6	4	2				×6300310	REMOVE AND I	REPLACE GUARDRAIL CHANNEL	EACH	
63100070	TRAFFIC BARRIER TERMINAL. TYPE 5	EACH	2	1	1				×6300610	THR (E BEAM	CUARDRAIL ELEMENT PLATES	EACH	
63100085	TRAFFIC BARRIER TERMINAL. TYPE 6	EACH	2		1				x6300620	THR (E-BEAM I	NODIFIED BLOCKS	EACH	
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	33	26	7	· · ·			×6300630	THR (E-BEAM	POSTS	EACH	
63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	6	5	1				X6300640	THREE BEAM	RADIUS ELEMENT PLATES	EACH	
78200410	GUARDRAIL MARKERS, TYPE A	EACH	350	280	70				x6310163	TRAFFIC BAR	RIER TERMINAL, TYPE 1, NOSE	EACH	
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	9	7	2				×6310177	TRAFFIC BAR	RIER TERMINAL, TYPE 3	EACH	
x0321563	REPAIR TRAFFIC BARRIER TERMINAL TYPE I SPECIAL	EACH	219	175	44				×6310203	TRAFFIC BAR	RIER TERMINAL, TYPE 3 SE	EACH	
x4402302	CURB REMOVAL (PARTIAL)	FOOT	87	70	17				x6330800	GUARDRAIL P	DST VERTICAL ADJUSTMENT	EACH	
×6300210	GUARORA IL BLOCKS	EACH	1049	839	210				X6331105	STEEL POSTS	MODIFIED	EACH	
×6300215	RAIL ELEMENT PLATES	EACH	1311	1049	262				×6331110	STEEL POSTS	. SPECIAL	EACH	
x6300217	RAIL ELEMENT PLATES (RADIUS)	EACH	87	70	17				20007124	STEEL RAILI	NG (SPECIAL)	FOOT	
x6300222	CONNECTING END SECTION	EACH	2	1					Z0029656	REPAIR TRAFI	FIC BARRIER TERMINAL TYPE 3	EACH	
x6300224	RETURN END SECTION	EACH	2	1	1				20029658	REPAIR TRAFI SPECIAL - PI	FIC BARRIER TERMINAL TYPE I OST	EACH	2
FILE HAME = ENDW_HORNOR	USER NAME = astornono bornengud047906/044215-14-Caneloga dga PLOT SCALE = 9929598 -/ 1a	DESIGNED - DRAWN - CHECKED -	1	REVISED REVISED REVISED	-	L	ST DEPARTME	ATE OF	LLINOIS	TION	SUMMARY	OF QUANT	rities

	URBAN		C	ONSTRUCT	ION TYPE	CODE 0021	
N[T	TOTAL QUANTITIES	CONT. MAIN. 100% STATE 0021	100% MCHD 0021				
ACH	7	6	1				
ACH	874	699	175				
ACH	52	42	10				
ACH	3	2	1				
ACH	3	2	1				
ACH	3	2	1				
ACH	3	2	1				
ACH	6	5	1				
ACH	3	2	1				
ACH	2	1	1				
ACH	17	14	3				
ACH	14		3				
ACH	13	10	3				
00T	44	35	9				
ACH	7	6	1				
ACH	298	238	60				
UANT		J	F.A. RTE. VAR.	2014-	I TION OBEGRR	VARIOUS CONTRACT	TOTAL SHEET SHEETS NO. 22 3 NO. 62A33
S STA	, TI	O STA.	FEO, I	ROAD DIST. NO. 1	ILLINOIS FED. A	O PROJECT	

	SUMMARY OF QUANTITIES		URBAN	CONT.	1	CONSTRUCT	1	1			SUMMARY OF QUANTITIES	
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	MAIN.	100% MCHD 0021					CODE NO	ĨŤĔM	UNIT
Z0051400	REMOVING AND RESETTING POSTS	EACH	44	35	9							
20052100	REPAIR STEEL PLATE BEAM GUARDRAIL, TYPE B	FOOT	114	91	23							
20052200	REPAIR STEEL PLATE BEAM GUARDRAIL, TYPE C	FOOT	44	35	9							
Z0052400	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	2	1	t							
20052550	REPAIR TRAFFIC BARRIER TERMINAL. TYPE IB	EACH	2	1	1							
20052600	REPAIR TRAFFIC BARRIER TERMINAL. TYPE 2	EACH	26	21	5							
Z0052900	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 4	EACH	3	2	1							
Z0053000	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	3	2								
20053200	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	3	2	1							
Z0059660	REPAIR TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL - RAIL ELEMENT PLATE	EACH	87	70	17							
20078000	WOOD RAIL	FOOT	230	184	46							
X2300001	MISSING OR FAILED ANCHOR CABLES	EACH	10	8	2							
12300002	MISSING OR FAILED LAG BOLTS	EACH	10	8	2							
FILE NAME = charloutlanddoodd	rrenp/d04/7906/D#42/5-sH-core dgn DRA	IGNED - IWN - IKEO -		REVISED REVISED REVISED	-				TATE OF I	LLINOIS	c	JMMARY OF QU

	URBAN	CONT.		CONSTRU	CTION T	YPE CODE		
	TOTAL QUANTITIES	MAIN. 100% STATE 0021	100% MCHD 0021					
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TA.		STA,	FED.	ROAD DIST. N). 1 ILLINOIS	CONT	RACT NO.	62A33

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FILE NAME =	USER NAME = osbornenp	DESIGNED -	REVISED -		GUARDRAIL REPAIR LOCATION MAP COOK CO		MAR COOK COUNTY	F.A. RTE	SECTION	COUNTY	TOTAL SHEET
c:\pw_work\pwidot\osbornenp\d0417906\D1	4215-sht-cover.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	GUA				2014-086GRR	VARIOUS	22 5
	PLOT SCALE = 99.9998 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	SOUTH OF IL RTE 38					NO. 62A33	
	PLOT DATE = 10/28/2014	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD	DIST. NO. ILLINOIS FED	AID PROJECT	

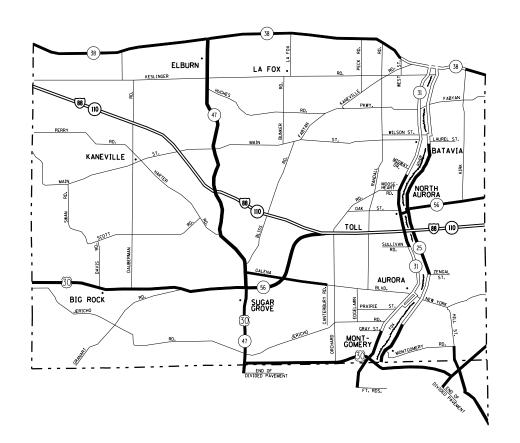
DISTRICT NO. 1

STATE HIGHWAYS & EXPRESSWAYS
WITHIN STATE JURIDICTION.
(EXCEPT TOLLWAYS) AND
CITY MAINTENANCE AGREEMENTS
UNDER STATE JURISDICTION

__ FUTURE HIGHWAYS

VARIOUS AGENCIES HIGHWAYS

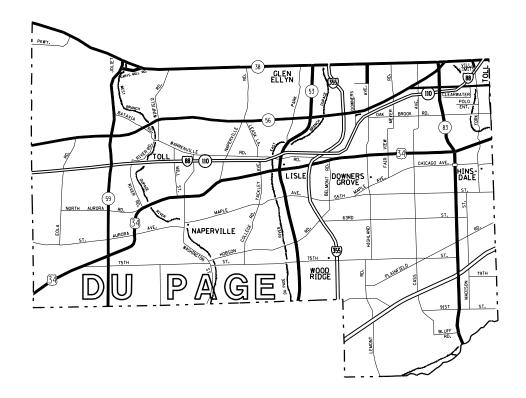




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c:\pw_work\pwidot\osbornenp\d0417906\D	114215-sht-cover.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	GOARDRAIL REPAIR LOCATION MAP RANE COUNTY				VARIOUS 22 6
	PLOT SCALE = 99.9998 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		SOUTH OF IL RTE 38			CONTRACT NO. 62A33
	PLOT DATE = 10/28/2014	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD	DIST. NO. ILLINOIS FED. A	

DISTRICT NO. 1

	STATE HIGHWAYS & EXPRESSWAYS WITHIN STATE JURIDICTION. (EXCEPT TOLLWAYS) AND CITY MAINTENANCE AGREEMENTS UNDER STATE JURISDICTION
\equiv \equiv	FUTURE HIGHWAYS
	VARIOUS AGENCIES HIGHWAYS



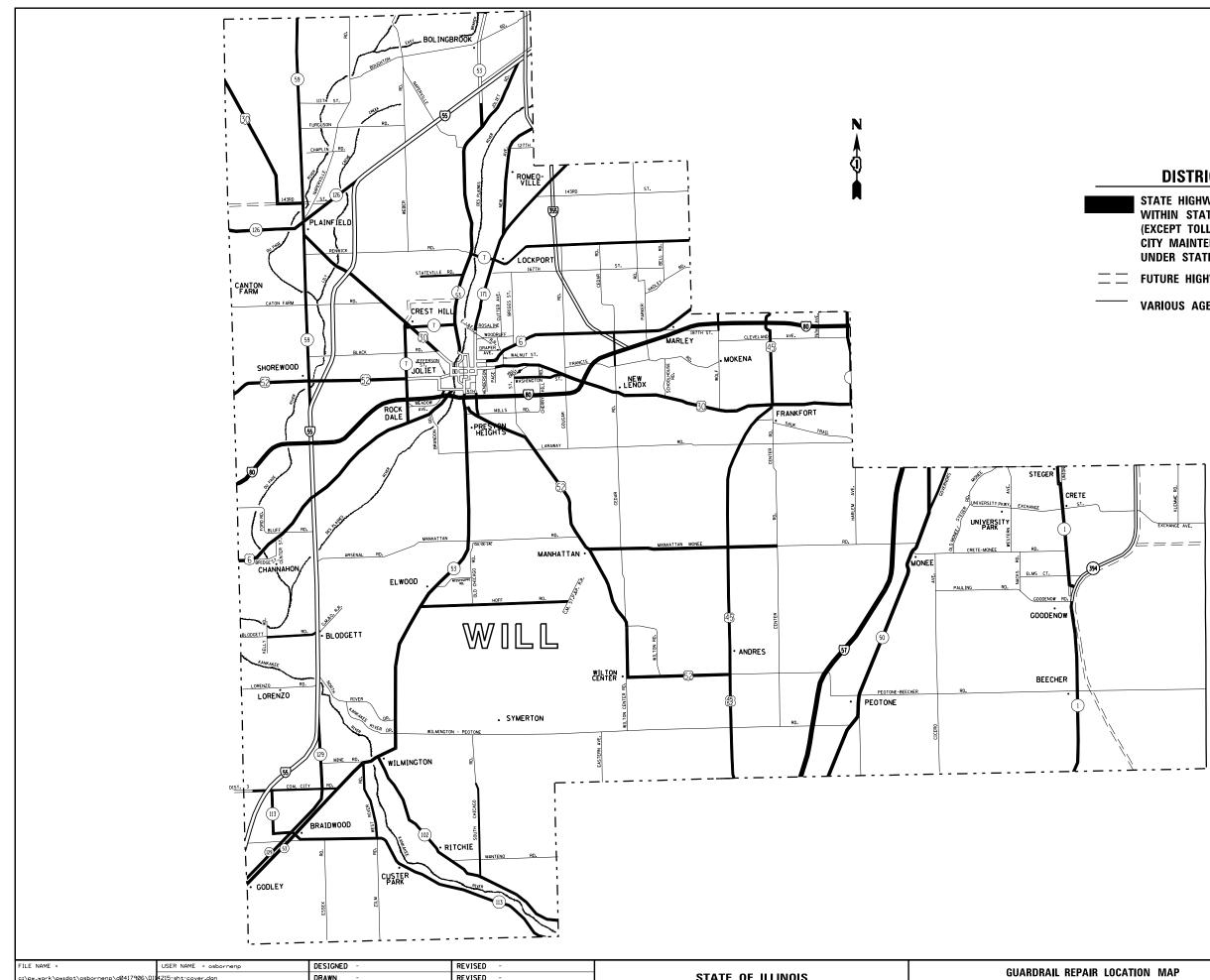
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c:\pw_work\pwidot\osbornenp\d0417906\D	14215-sht-cover.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS					2014-086GRR	VARIOUS	22 7
	PLOT SCALE = 99.9998 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		SOUTH OF IL RTE	VAR.	2011 0000	CONTRACT	NO. 62433	
	PLOT DATE = 10/28/2014	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.		FED. ROAD	DIST. NO. ILLINOIS FED.			

DISTRICT NO. 1

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	STATE HIGHWAYS & EXPRESSWAYS WITHIN STATE JURIDICTION. (EXCEPT TOLLWAYS) AND CITY MAINTENANCE AGREEMENTS UNDER STATE JURISDICTION
\equiv \equiv	FUTURE HIGHWAYS
	VARIOUS AGENCIES HIGHWAYS



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	PLOT SCALE = 99.9998 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		WILL COUNTY		CONTRACT NO. 62A33
	PLOT DATE = 10/28/2014	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED.	

DISTRICT NO. 1

STATE HIGHWAYS & EXPRESSWAYS
WITHIN STATE JURIDICTION.
(EXCEPT TOLLWAYS) AND
CITY MAINTENANCE AGREEMENTS
UNDER STATE JURISDICTION

- **FUTURE HIGHWAYS**
- VARIOUS AGENCIES HIGHWAYS

NOTE:

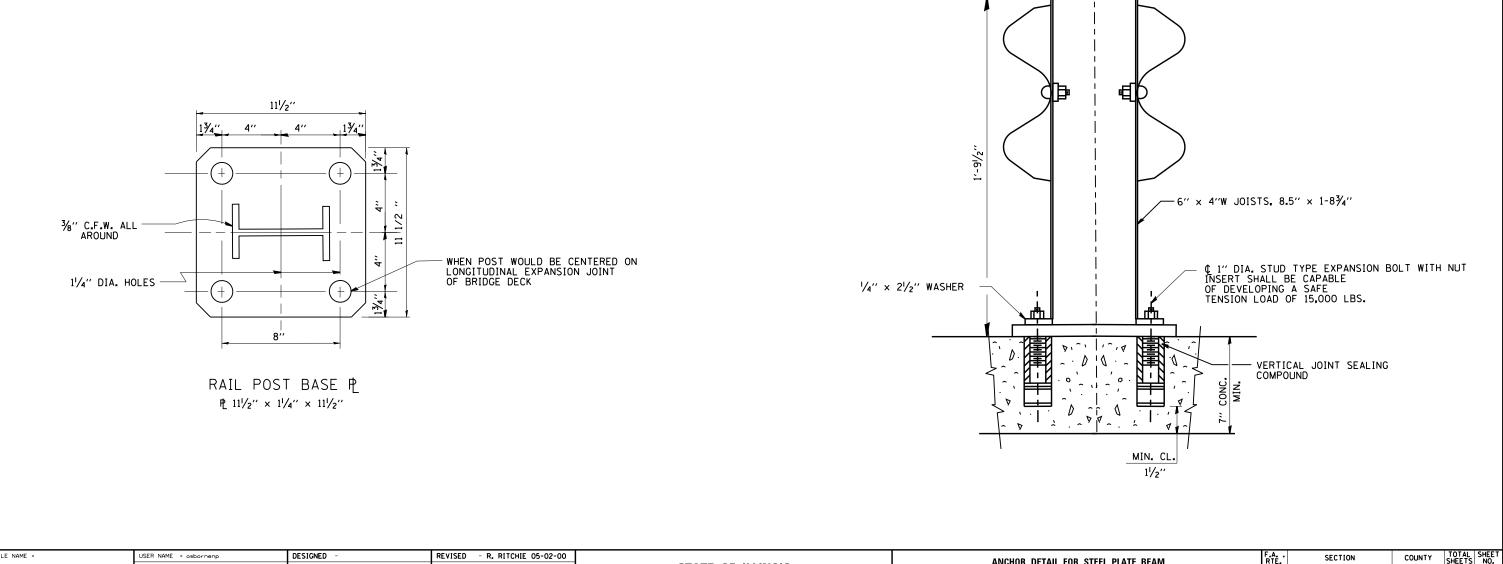
FOR DETAILS OF RAIL ELEMENTS, RAIL SPLICING, NUT, BOLT AND SIDE VIEW OF RAIL, SEE STANDARD 2230-2.

ALL WELDS SHALL BE GROUND SMOOTH

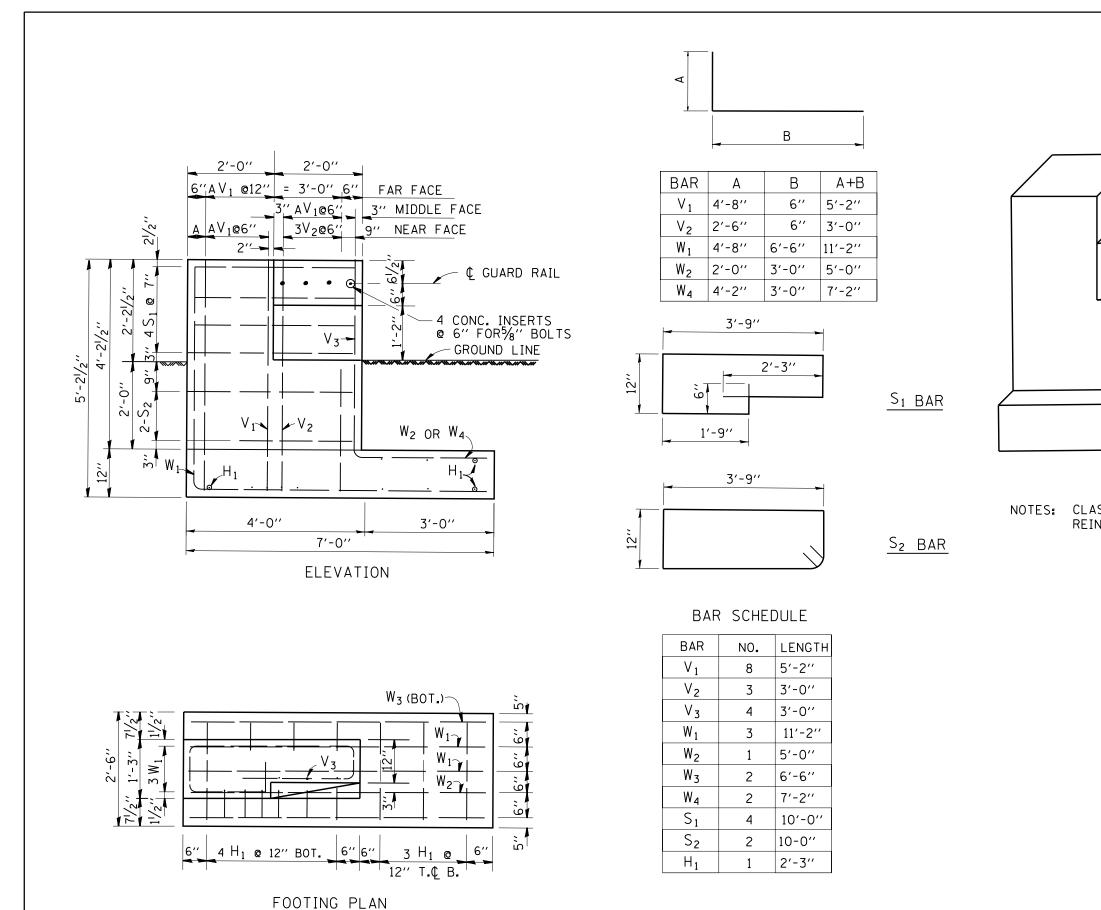
POSTS SHALL BE CUT AND WELDED TO THE BASE PLATE SO THAT THE POST WILL BE PLUMB WHEN ERECTED.

TWO PERCENT (2%) OF ALL ANCHOR BOLTS SHALL BE TEST LOADED IN PLACE, MINIMUM TEST LOAD=8 KIPS. IF ONE ANCHOR BOLT FAILS DURING THE TEST, TWO OTHER ANCHOR BOLTS SHALL BE TESTED. TESTING EQUIPMENT SHALL BE BOLT COMPANIES.

PROVIDE $1^{\prime}\!/_{8}{}^{\prime\prime}$ and $2^{\prime}\!/_{16}{}^{\prime\prime}$ Galvanized shims for 25% of the posts.

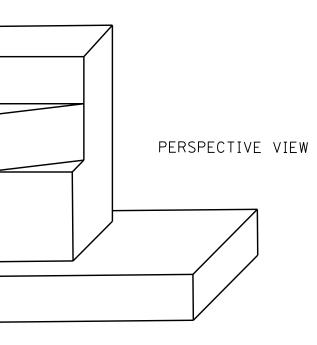


FILE NAME =	USER NAME = osbornenp	DESIGNED -	REVISED - R. RITCHIE 05-02-00			ANCHOR DETAIL FOR STEEL PLATE BEAM	F.A.	SECTION	COUNTY TOTAL SHEET SHEETS NO.
c:\pw_work\pwidot\osbornenp\d0417906\D1	4215-sht-cover.dgn	DRAWN - RFL	REVISED -	STATE OF ILLINOIS			VAR.	2014-086GRR	VARIOUS 22 9
	PLOT SCALE = 99.9998 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		GUARDRAIL ON CONCRETE		BM-02	CONTRACT NO. 62A33
	PLOT DATE = 10/28/2014	DATE - 10-31-88	REVISED -		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.			DIST. NO. 1 ILLINOIS FED.	

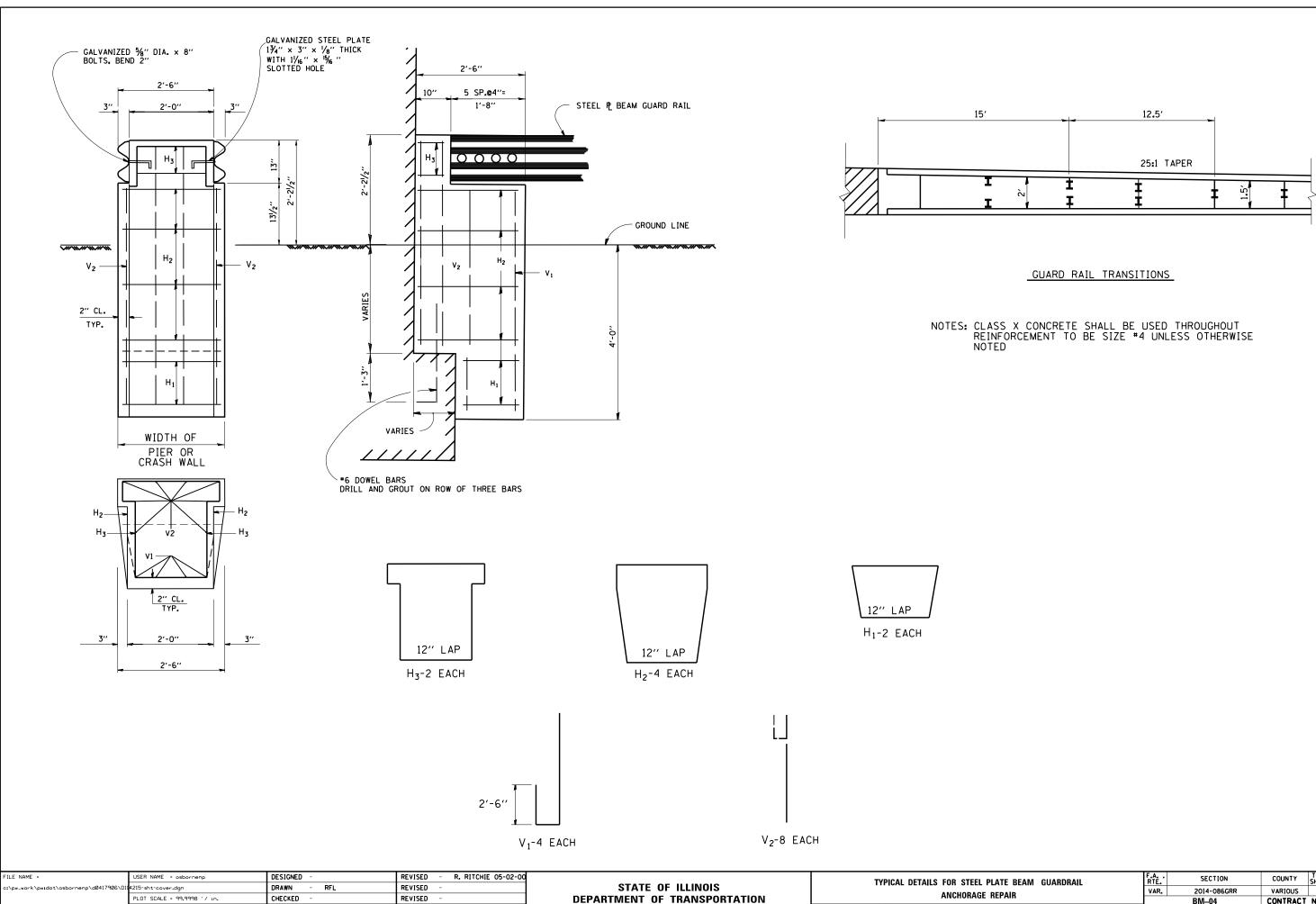


THIS SHEET IS FOR INFORMATION ONLY

F	ILE NAME =	USER NAME = osbornenp	DESIGNED -	REVISED - R. RITCHCHIE 06-02-0			TYPICAL DETAIL FOR		F.A RTF	SECTION	COUNTY TOTAL SHEET
c	\pw_work\pwidot\osbornenp\d0417906\D1	1215-sht-cover.dgn	DRAWN - RFL	REVISED -	STATE OF ILLINOIS				VAR.	2014-086GRR	VARIOUS 22 10
		PLOT SCALE = 99.9998 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	GUARDRAIL ANCHOR BLOCK REPAIR					CONTRACT NO. 62A33
		PLOT DATE = 10/28/2014	DATE - 10-31-88	REVISED -	SCA	SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	FED. ROAD D		



NOTES: CLASS X CONCRETE SHALL BE USED THROUGHOUT REINFORCEMENT TO BE SIZE #4 UNLESS OTHERWISE NOTED



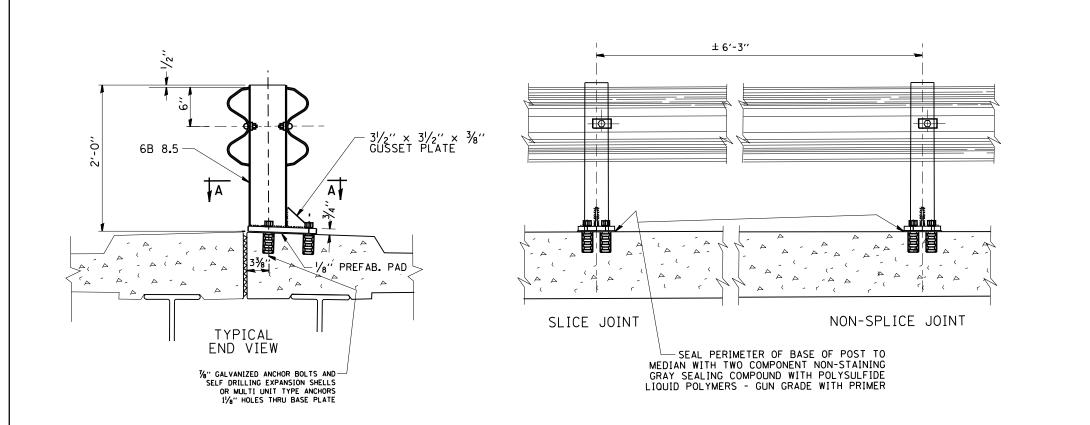
PLOT DATE = 10/28/2014

DATE

- 10-31-88

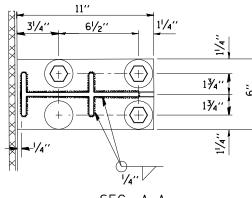
REVISED

	TYF	TYPICAL DETAILS FOR STEEL PLATE BEAM GUARDRAIL						COUNTY SHEET		SHEET NO.
		АМСЦ	ORAGE RE			VAR.	2014-086GRR	VARIOUS	22	11
		ANUT		FAIN			BM-04	CONTRACT	NO. 6	62A33
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.						FED. R	DAD DIST. NO. 1 ILLINOIS FED. A	D PROJECT		-



NOTE:

DIAMOND TIPPED DRILL SHALL BE USED TO DRILL THRU REINFORCEMENT BARS



SEC. A-A

NOTE:

POSTS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM DESIGNATIONS A-123 AND A-385.

TWO PERCENT (2%) OF ALL ANCHOR BOLTS SHALL BE TEST LOADED IN PLACE. MIN. TEST LOAD = 8 KIPS.

ALL BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION A-153.

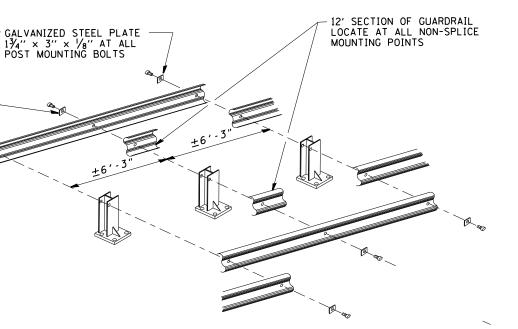
FOR MATERIAL COMPOSITION OF PREFABRICATED PAD, SEE ARTICLE 54.9(F), (BEARING AND ANCHORAGE), OF THE STANDARD SPECIFICATIONS.

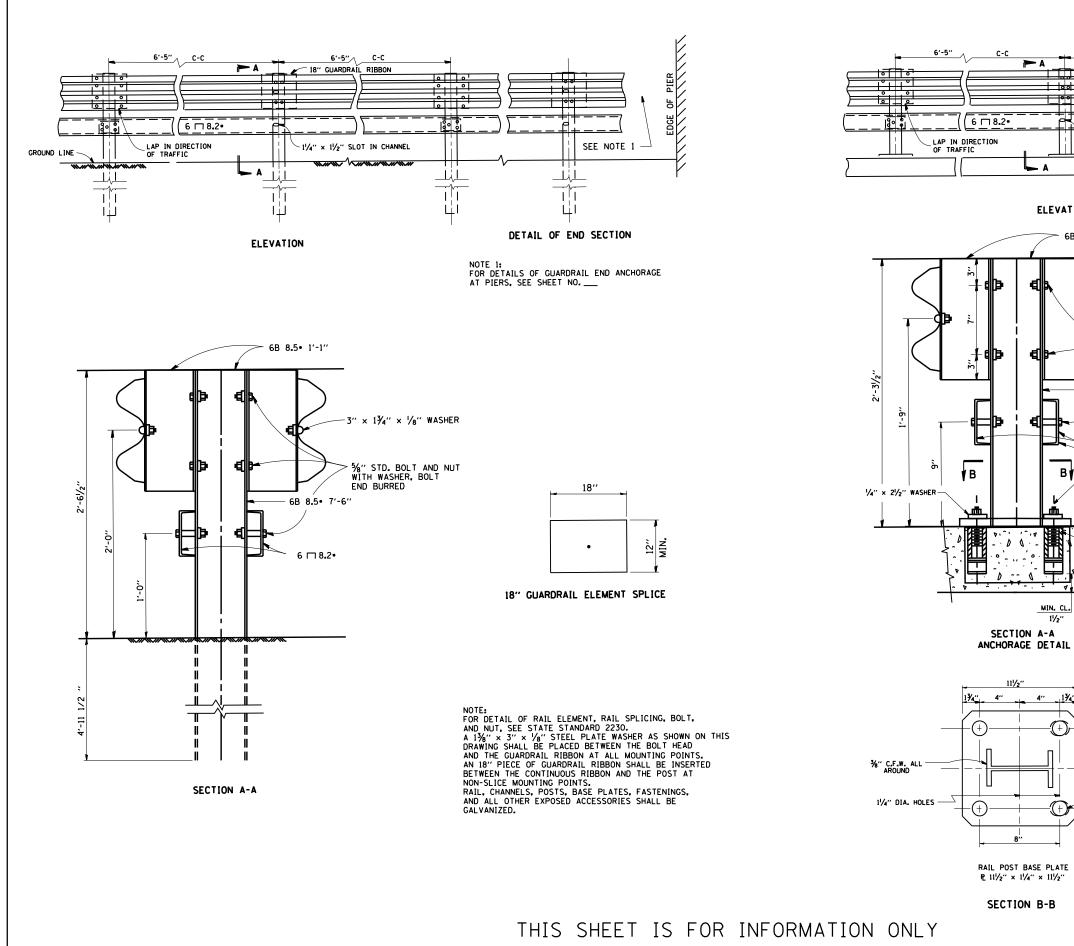
PROVIDE 1-1/8" AND 2-1/16" GALVANIZED STEEL SHIMS FOR 25% OF THE POSTS.

IF ONE ANCHOR BOLT FAILS DURING TEST, TWO OTHER ANCHOR BOLTS SHALL BE TESTED. TESTING EQUIPMENT CAN BE OBTAINED FROM BOLT COMPANIES.

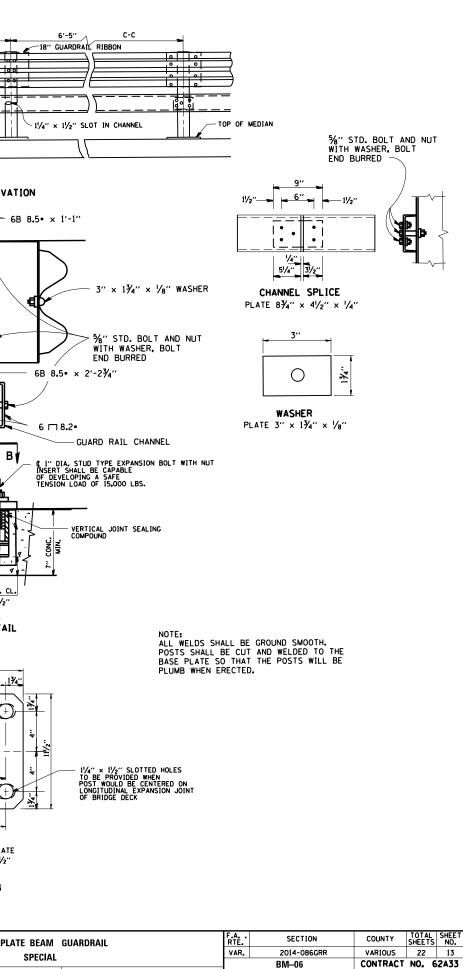
THIS SHEET IS FOR INFORMATION ONLY

FILE NAME =	USER NAME = osbornenp	DESIGNED -	REVISED - R. RITCHIE 05-02-00			TYPICAL DETAIL FOR CENTER LONGITUDINAL JOINT	F.A RTF.	SECTION	COUNTY TOTAL SHEET
c:\pw_work\pwidot\osbornenp\d0417906\D1	4215-sht-cover.dgn	DRAWN - RFL	REVISED -	STATE OF ILLINOIS			VAR.	2014-086GRR	VARIOUS 22 12
	PLOT SCALE = 99.9998 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		GUARDRAIL JOINT		BM-05	CONTRACT NO. 62A33
	PLOT DATE = 10/28/2014 DATE - 10-31-88 REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROA	D DIST. NO. 1 ILLINOIS FED.			





FILE NAME =	USER NAME = osbornenp	DESIGNED -	REVISED - R. RITCHIE 05-02-00			STEEL PLATE BEAM	GUARDRA
c:\pw_work\pwidot\osbornenp\d0417906\D11	4215-sht-cover.dgn	DRAWN - RFL	REVISED -	STATE OF ILLINOIS			
	PLOT SCALE = 99.9998 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		SPECIAL	
	PLOT DATE = 10/28/2014	DATE -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.



FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

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В

MIN. CL. 11/2"

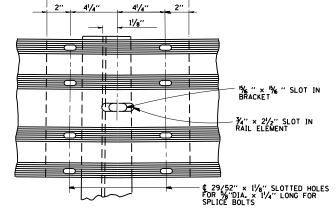
174"

TO STA.

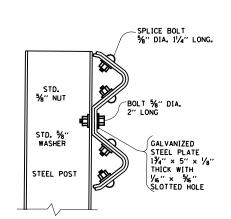
4"

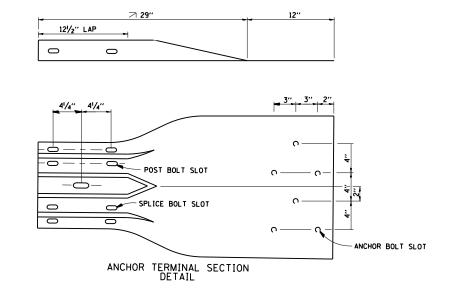
ELEVATION

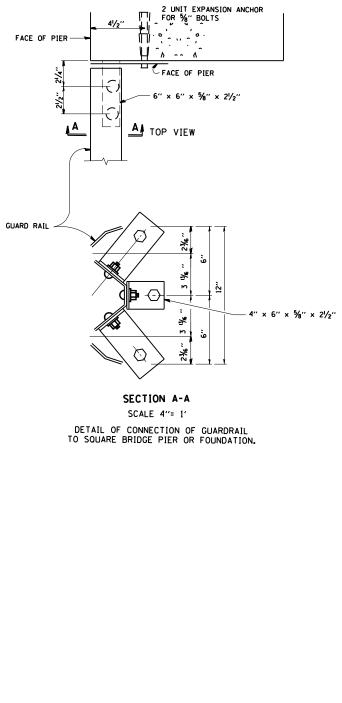
						SCALE 4"= 1'
	POSTS 12'-3" C-C		TE PIER NT OF FOOTING			DETAIL OF CONNECTION OF GUARDRAIL TO SOUARE BRIDGE PIER OR FOUNDATION.
			← 2 UNIT EXPANSION ANCHORS WITH %" BOLT			
DE R	TYPICAL INSTALLATION TAIL OF CONNECTION OF GUARDRAIL TO OUNDED BRIDGE PIER OR FOUNDATION	0	THI	S SHEET IS FOR INFORMAT	ION ONLY	
E NAME =	USER NAME = osbornenp	DESIGNED -	REVISED - R. RITCHIE 05-02-00		DETAIL OF GUARDRAIL SUPPORT	F.A. SECTION COUNTY SHEET
w_work\pwidot\osbornenp\d0417906\D	114215-sht-cover.dgn	DRAWN - RFL	REVISED -	STATE OF ILLINOIS		VAR. 2014-086GRR VARIOUS 22
pw_work (pwidd t (dsbornenp (db41) 366 (b.		CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	AND END ANCHORAGE	
ришион (ризон (озвонный) (овчт/ же (в.	PLOT SCALE = 99.9998 '/ in.	DATE - 10-31-88	REVISED -	DEFAITWENT OF THANSFORTATION	SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA.	TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

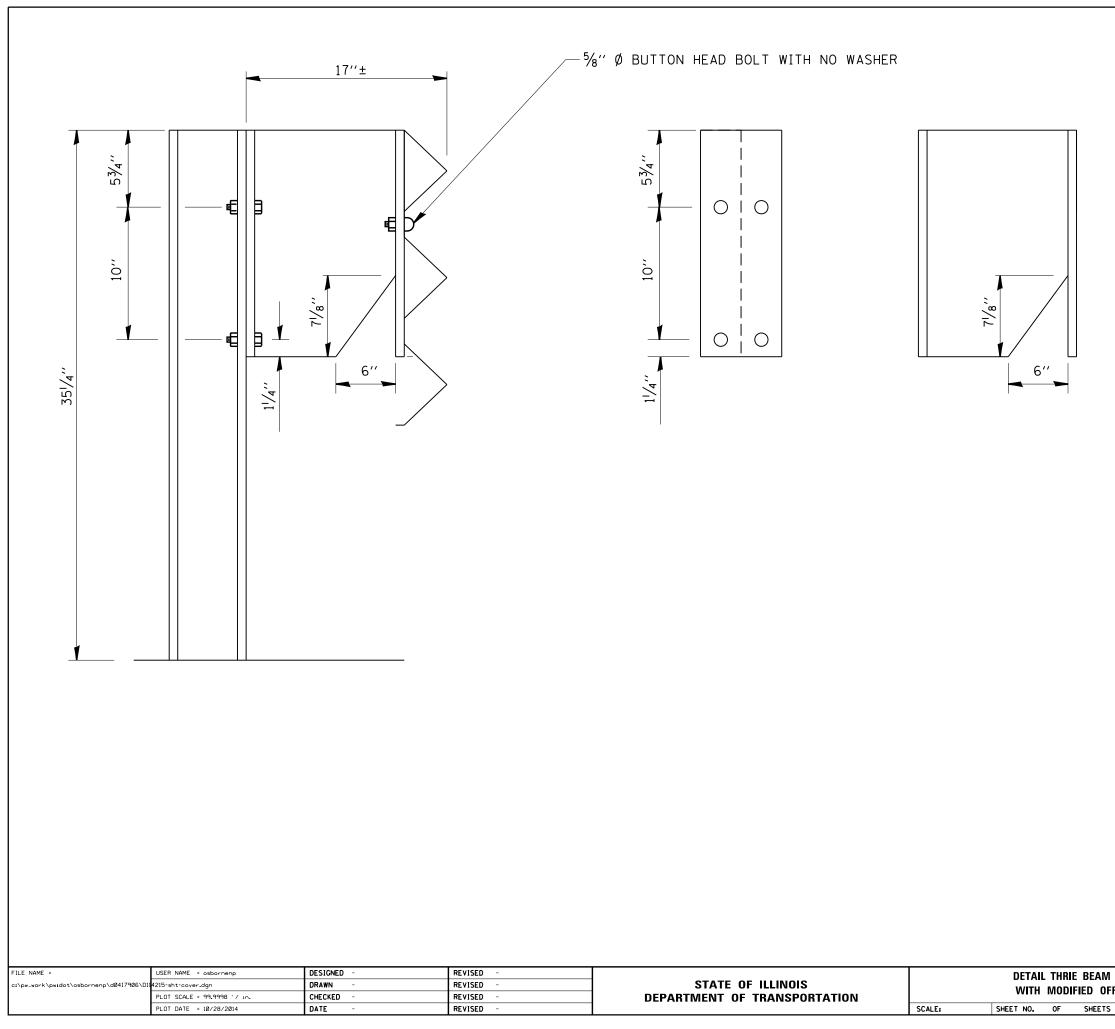


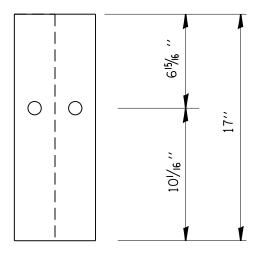
121/2" LAP



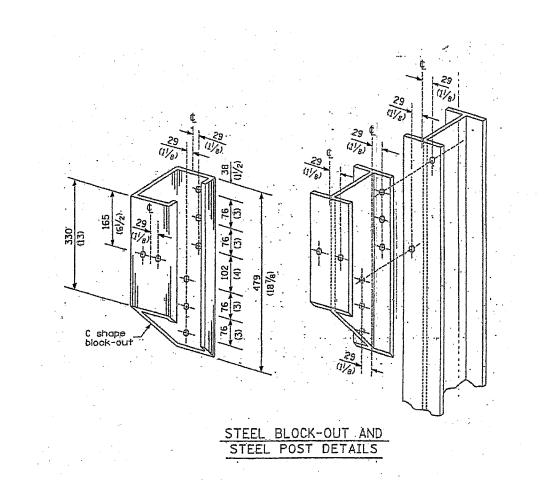




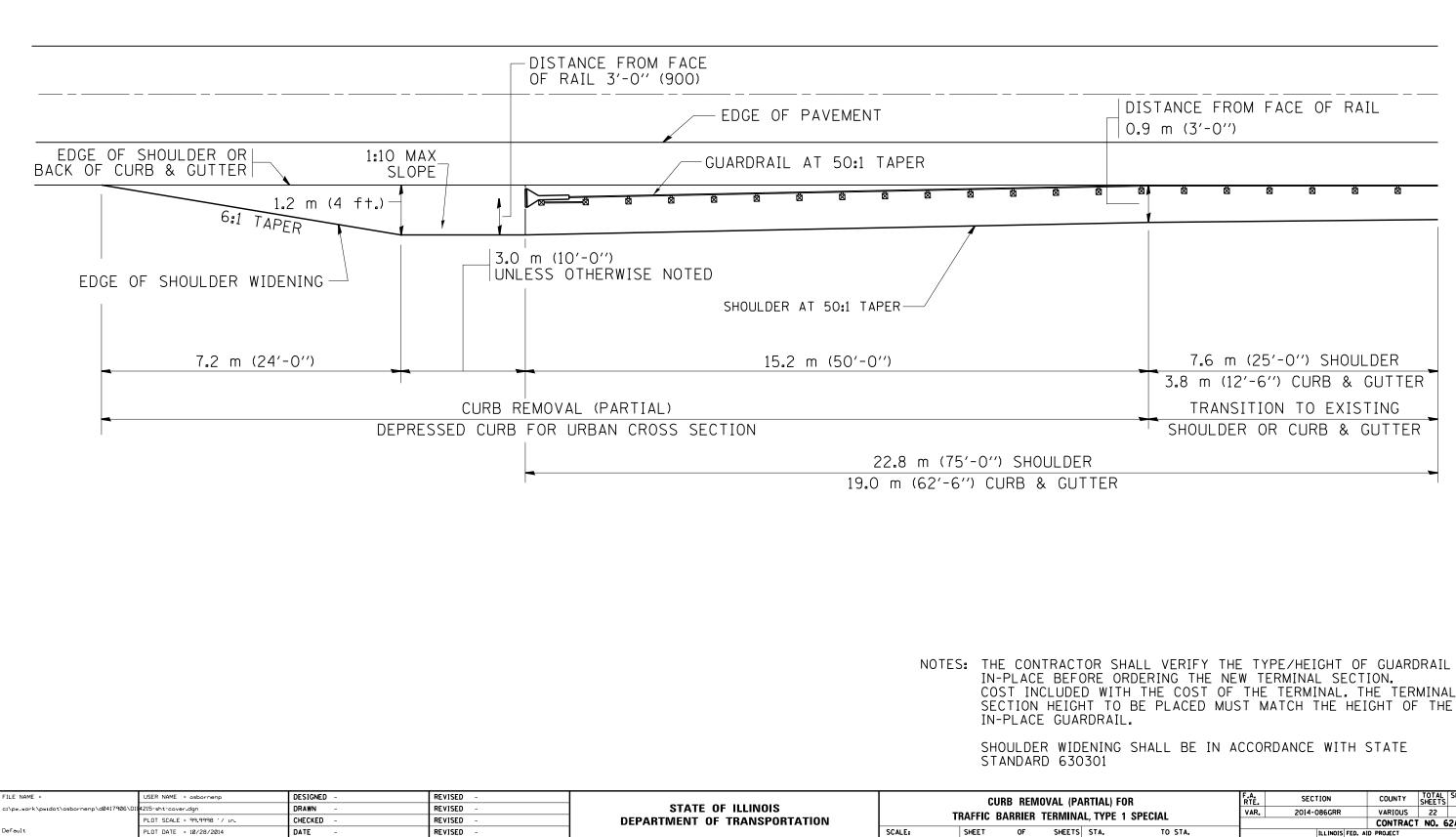




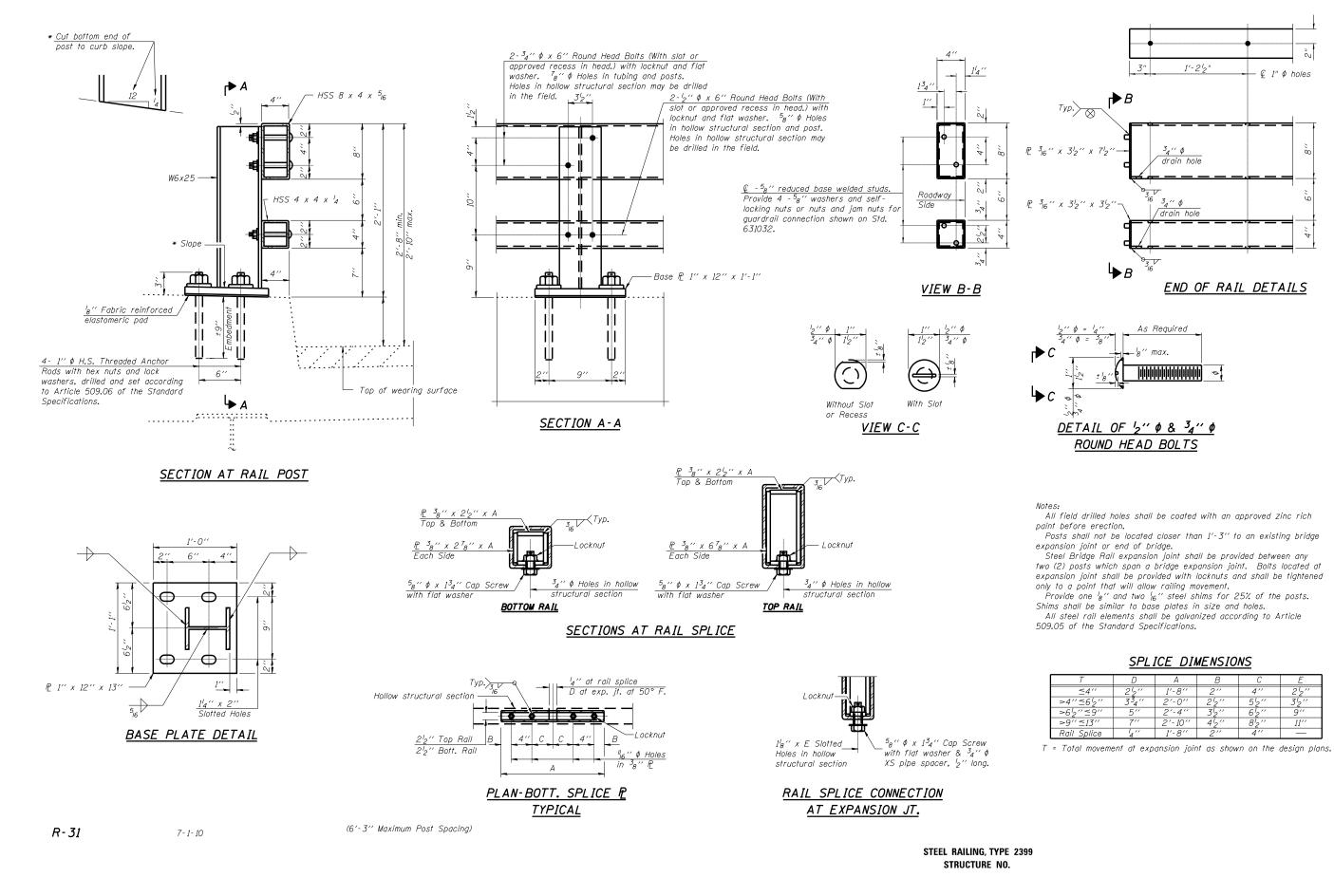
1	GUARDRAIL		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FF	SET BLOCK		VAR.	2014-086GRR	VARIOUS	22	15
TOET BEGOR				CONTRACT	NO. 6	2A33	
5	STA. TO STA.		FED. RO	AD DIST. NO. ILLINOIS FED. A	D PROJECT		



FILE NAME =	USER NAME = osbornenp	DESIGNED -	REVISED -		STEEL PLATE BEAM GUARDRAIL						F.A.	SECTION	COUNTY	TOTAL SHEET
c:\pw_work\pwidot\osbornenp\d0417906\D1	4215-sht-cover.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	STEEL PLATE BEAM GOARDHAIL STEEL BLOCK-OUT DETAIL					VAR.	2014-086GRR	VARIOUS	22 16	
	PLOT SCALE = 99.9998 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION								CONTRAC	CT NO. 62A33	
Default	PLOT DATE = 10/28/2014	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			TO STA.		ILLINOIS FED. AID PROJECT				

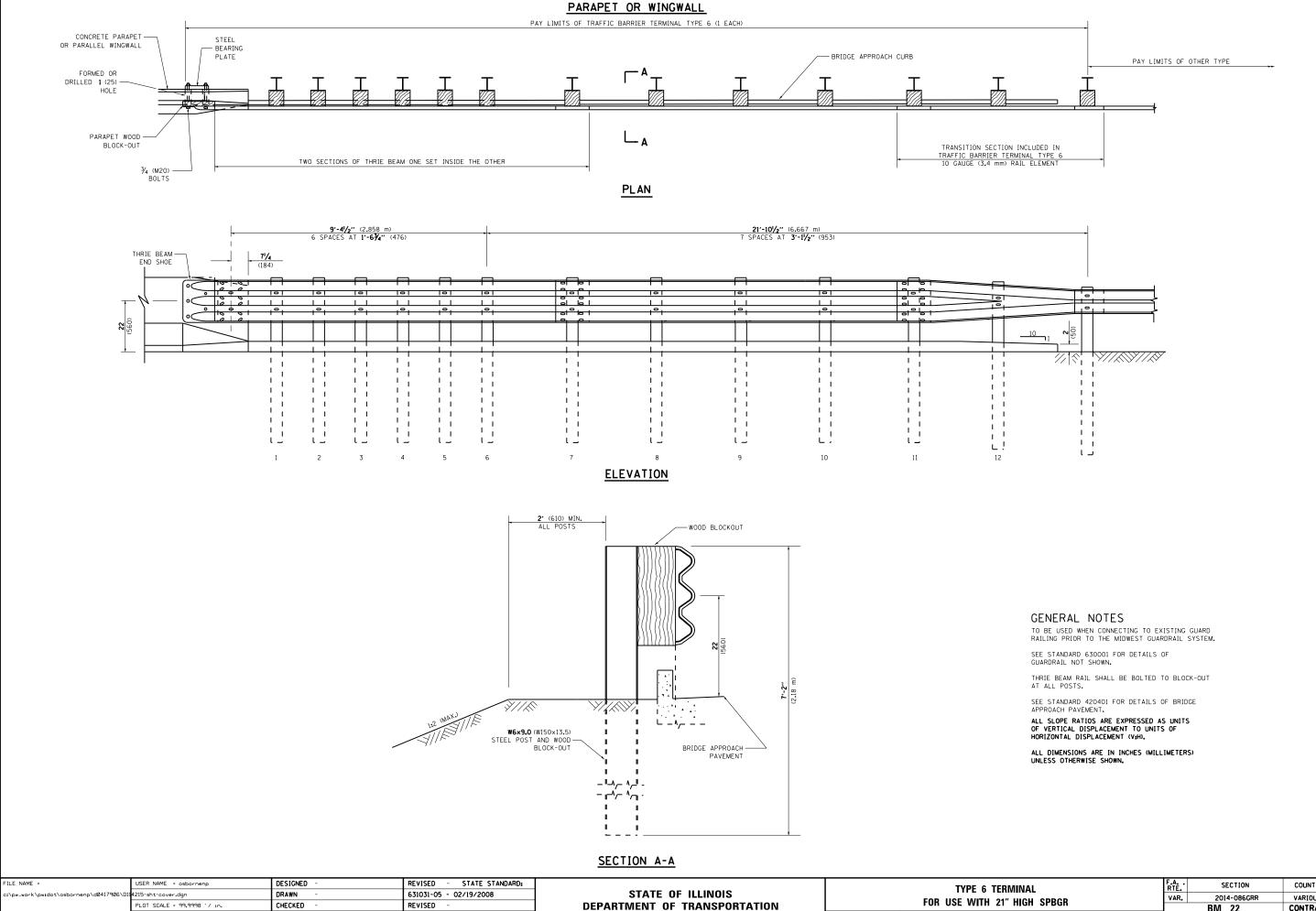


PARTIAL) FOR Val. Type 1 special		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
		VAR.	2014-086GRR	VARIOUS	22	17		
~~	E, IIIE I				CONTRAC	NO. 6	2A33	
ſS	STA.	TO STA.		ILLINOIS FED. AID PROJECT				



FILE NAME =	USER NAME = osbornenp	DESIGNED -	REVISED -		STEEL BRIDGE RAIL DETAIL		F.A. RTF	SECTION	COUNTY	TOTAL SHEE SHEETS NO
c:\pw_work\pwidot\osbornenp\d0417906\D11	4215-sht-cover.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS			VAR.	2014-086GRR	VARIOUS	22 18
	PLOT SCALE = 99.9998 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION					CONTRACT	
	PLOT DATE = 10/28/2014	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DI			

T	D	A	В	С	Ε
≤4"	2'2''	1'-8''	2″	4''	2'2''
>4''≤6 ¹ 2''	334''	2'-0''	2'2''	5′2″	3'2''
>6 ¹ 2″≤9″	5″	2'-4''	3'2''	6'2''	9′′
>9''≤13''	7''	2'-10''	4'2''	8'2''	11''
Rail Splice	4''	1'-8''	2″	4′′	



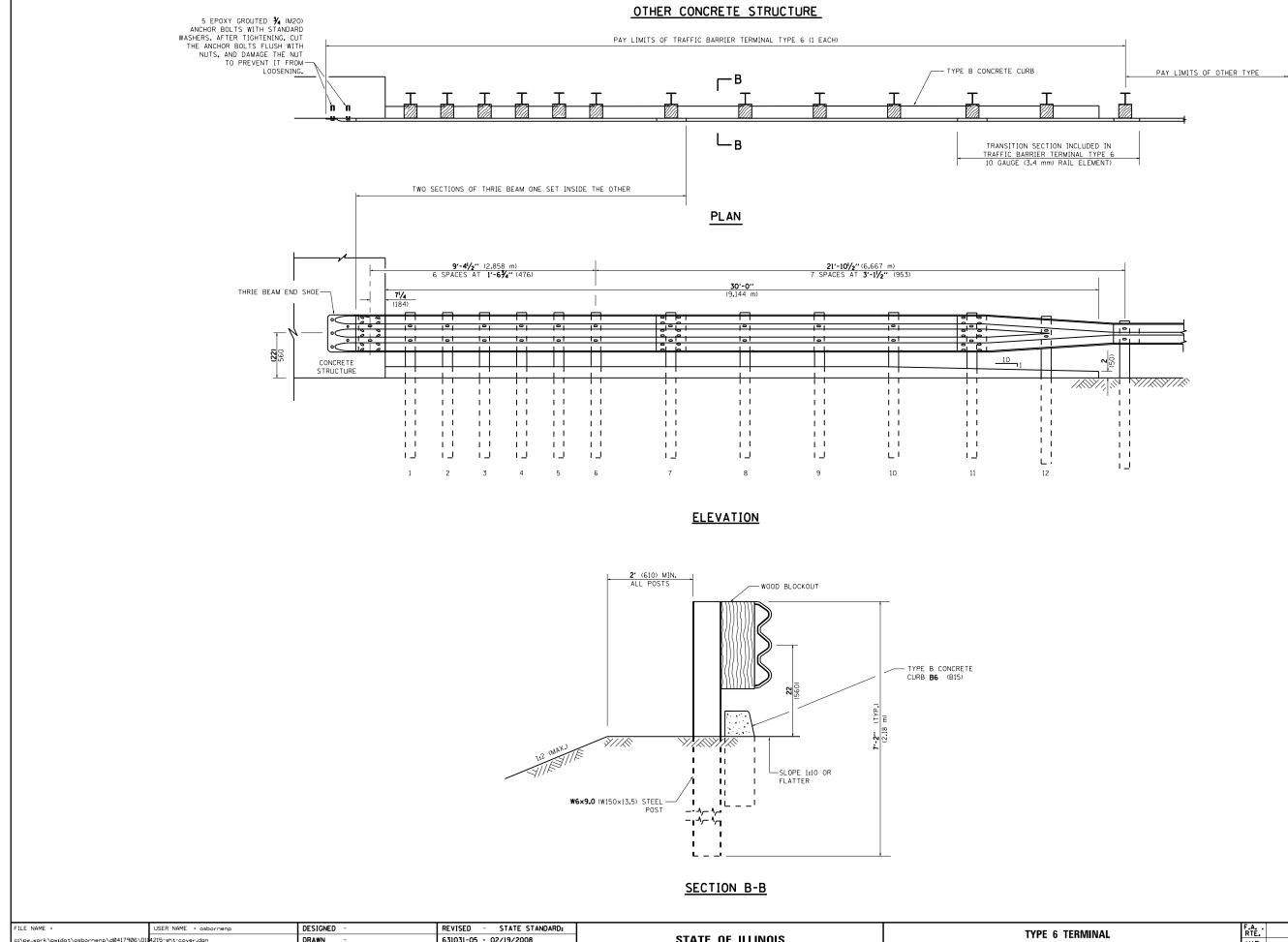
PLOT DATE = 10/28/2014

DATE

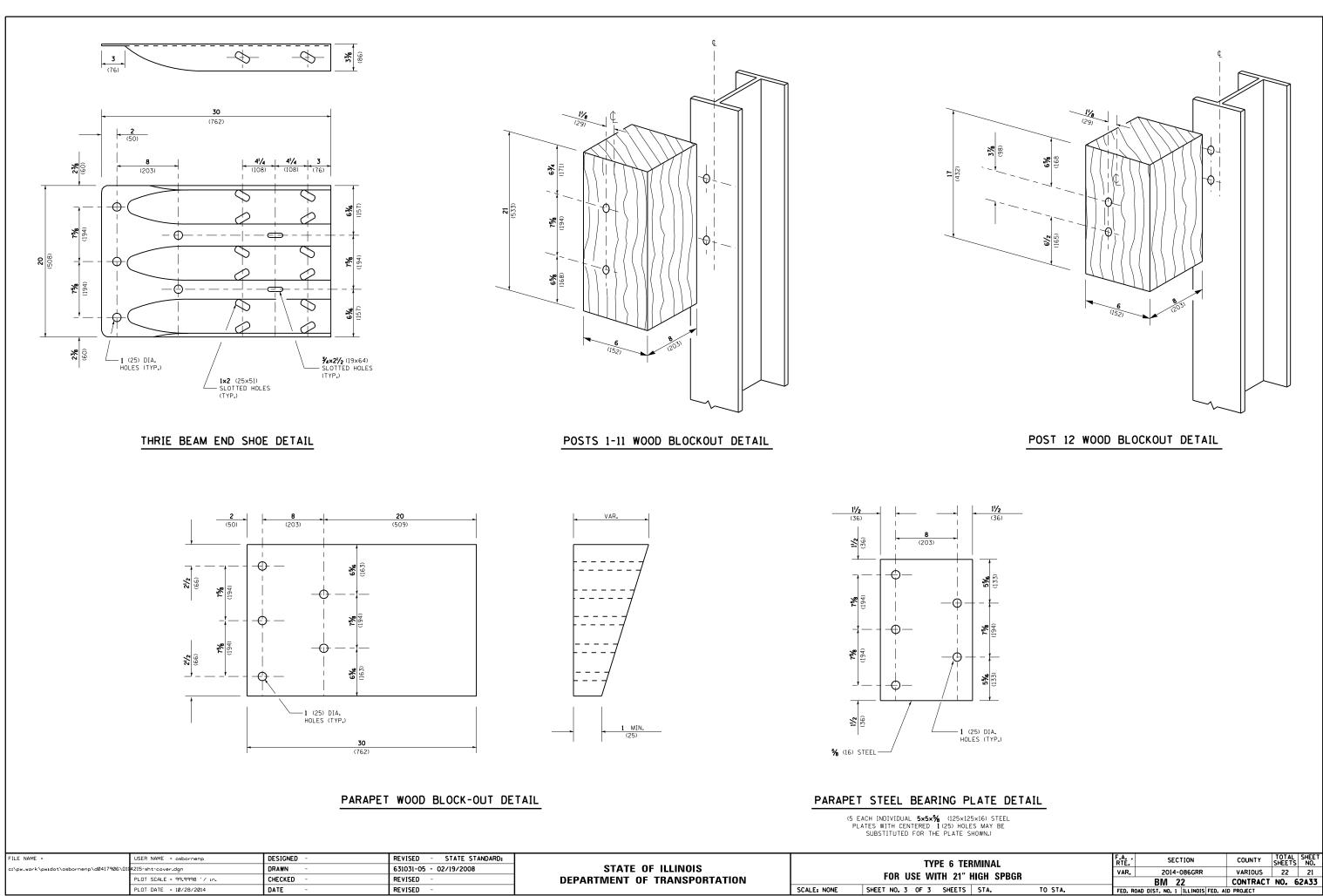
REVISED

SCALE: NONE

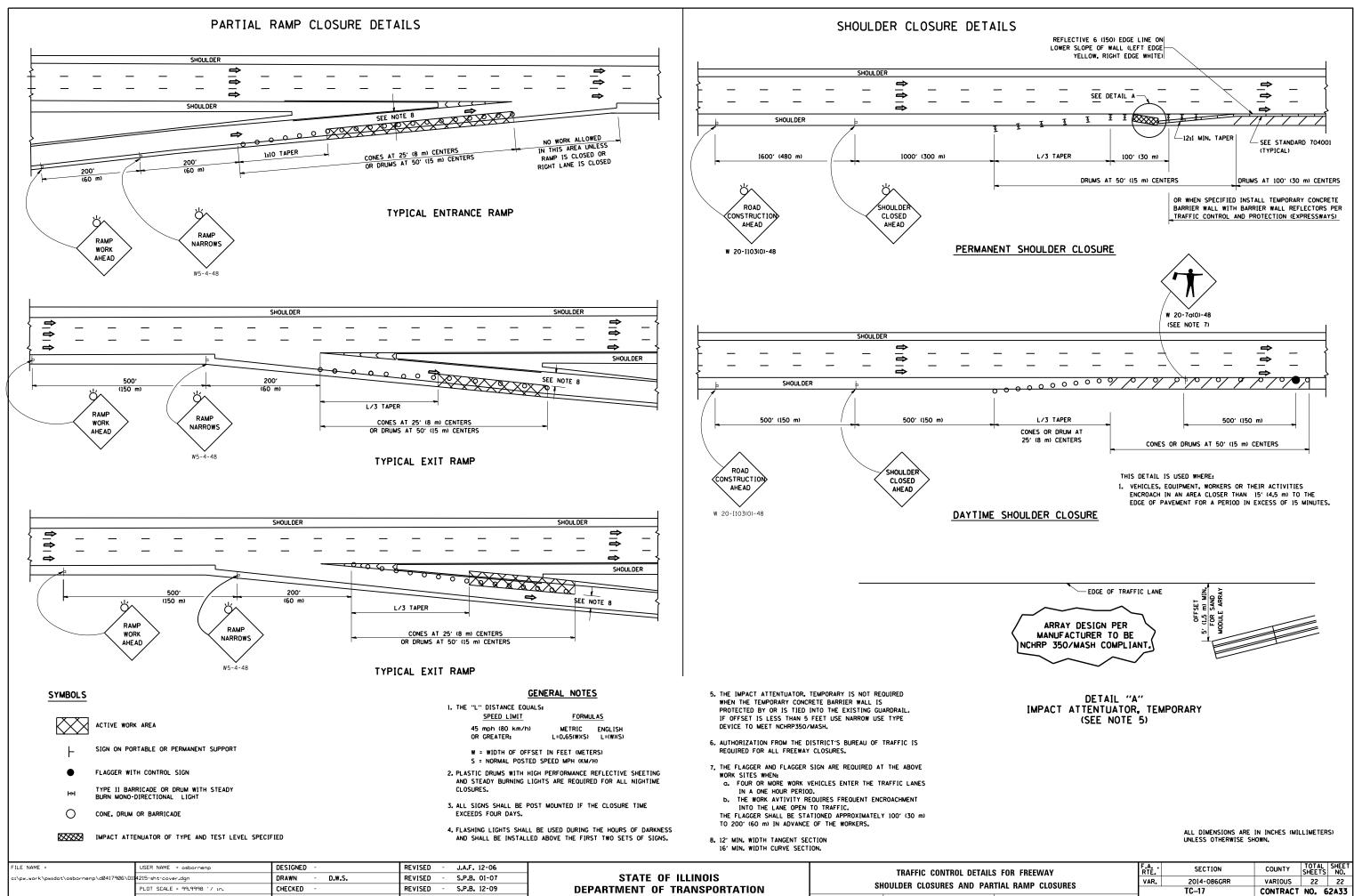
TYPE 6 TERMINAL	F.A RTÉ.	SECTION	TOTAL SHEET SHEETS NO.		
FOR USE WITH 21" HIGH SPBGR	VAR.	2014-086GRR	VARIOUS	22	19
FUN USE WITH ZT HIGH SEDAN		BM 22	CONTRACT	NO. E	52A33
SHEET NO. 1 OF 3 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



FILE NAME =	USER NAME = osbornenp	DESIGNED -	REVISED - STATE STANDARD:			TYPE 6 TERMINAL	F.A RTF.	SECTION	COUNTY TOTAL SHEET
c:\pw_work\pwidot\osbornenp\d0417906\D11	4215-sht-cover.dgn	DRAWN -	631031-05 - 02/19/2008	STATE OF ILLINOIS				2014-086GRR	VARIOUS 22 20
	PLOT SCALE = 99.9998 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	FOR USE WITH 21" HIGH SPBGR			BM 22	CONTRACT NO. 62A33
PLOT DATE = 10/28/2014 DATE -		DATE -	REVISED -		SCALE: NONE	SHEET NO. 2 OF 3 SHEETS STA. TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED. 4	



FILE NAME =	USER NAME = osbornenp	DESIGNED -	REVISED - STATE STANDARD:			TYPE 6 T
c:\pw_work\pwidot\osbornenp\d0417906\D1	14215-sht-cover.dgn	DRAWN -	631031-05 - 02/19/2008	STATE OF ILLINOIS		
	PLOT SCALE = 99.9998 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		FOR USE WITH 21'
	PLOT DATE = 10/28/2014	DATE -	REVISED -		SCALE: NONE	SHEET NO. 3 OF 3 SHEETS



TC-17

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

TO STA.

FILE NAME =	USER NAME = osbornenp	DESIGNED -	REVISED - J.A.F. 12-06		Í	TRAFFIC CONTROL DETAILS FOR FI						
c:\pw_work\pwidot\osbornenp\d0417906\DI14215-sht-cover.dgn PLOT_SCALE = 99,9998 '/ in	14215-sht-cover.dgn	DRAWN - D.W.S.	REVISED - S.P.B. 01-07	VISED - S.P.B. 01-07 STATE OF ILLINOIS								
	PLOT SCALE = 99.9998 '/ in.	CHECKED -	REVISED - S.P.B. 12-09	DEPARTMENT OF TRANSPORTATION	SHOULDER CLOSURES AND PARTIAL RAN							
PLOT DATE = 10/28/2014 DATE - 11-96 REVISED - M.D. 06-13		REVISED - M.D. 06-13		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.						