07-31-2015 LETTING ITEM 052

FOR INDEX OF SHEETS, SEE SHEET NO. 3

STATE OF ILLINOIS

**DEPARTMENT OF TRANSPORTATION** 

**DIVISION OF HIGHWAYS** 

PROPOSED HIGHWAY PLANS

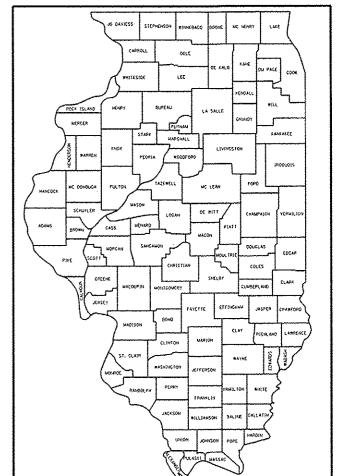
VARIOUS ROUTES
SECTION D9 GUARDRAIL REPAIR FY16-1

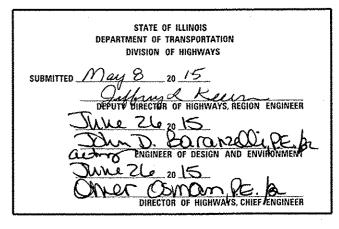
**VARIOUS COUNTIES** 

C-99-043-15



D-99-035-15





LOCATION OF SECTION INDICATED THUS: -

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

0 100' 200' 300' 1" = 100'
0 50' 100' 1" = 50'
0 50' 100' 1" = 40'
0 50' 100' 1" = 30'
0 50' 100' 1" = 30'

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER SUSAN POE PROJECT MANAGER SUSAN POE

**CONTRACT NO. 78475** 

Prepared By:

Examined By:

Examined By:

DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By:

DISTRICT OPERATIONS ENGINEER

Examined By:

DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By:

Examined By:

DISTRICT MATERIALS ENGINEER

FILE NAME . DESIGNED -REVISED -CONTRACTOR OUT STREET STATE OF ILLINOIS SIGNATURE SHEET VAR D9 GUARDRAIL REPAIR FYIG-1 VARIOUS 2 20 CONTRACT NO. 78975 PLOT SCALE = 100,8000 1/ 10. CHECKED -REVISED **DEPARTMENT OF TRANSPORTATION** OF \_\_\_ SHEETS STA.

# INDEX OF SHEETS

SHEET NO.	DESCRIPTION COVER SHEET
2	SIGNATURE SHEET
3	INDEX OF SHEETS, STANDARDS
4	GENERAL NOTES
5 ~ 7	SUMMARY OF QUANTITIES
8 - 11	DETAIL - STEEL PLATE BEAM GUARDRAIL PRIOR TO JANUARY 1, 2007
12 - 14	DETAIL - TRAFFIC BARRIER TERMINAL, TYPE 6 PRIOR TO JANUARY 1, 2007
15 -17	DETAIL - TRAFFIC BARRIER TERMINAL. TYPE 6A PRIOR TO JANUARY 1, 2007
18 - 19	DETAIL - TRAFFIC BARRIER TERMINAL, TYPE 6B PRIOR TO JANUARY 1, 2007
20	DETAIL - CRASH-CUSHION ATTENUATING TERMINAL (C-A-T)

## <u>STANDARDS</u>

ODIO06 DECIMAL OF AN INCH AND A FOOT 630001-10 STEEL PLATE BEAM GUARDRAIL 630301-06 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS 631011-09 TRAFFIC BARRIER TERMINAL, TYPE 2 631031-13 TRAFFIC BARRIER TERMINAL, TYPE 6 631032-08 TRAFFIC BARRIER TERMINAL, TYPE 6A 631033-06 TRAFFIC BARRIER TERMINAL, TYPE 6B 635001-01 DELINEATORS 635006-03 REFLECTOR AND TERMINAL MARKER TREATMENT 635011-02 REFLECTOR MARKER AND MOUNTING DETAILS 643001-02 SAND MODULE IMPACT ATTENUATORS 664001-02 CHAIN LINK FENCE 665001-02 WOVEN WIRE FENCE 701001-02 OFF ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY 701006-05 OFF ROAD OPERATIONS, 2L, 2W, DAY ONLY 701101-04 OFF ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE 701101-04 OFF ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE 701106-02 OFF ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY 701201-04 LANE CLOSURE, 2L, 2W, DAY ONLY FOR SPEEDS GREATER OR EQUAL TO 45 MPH 701301-04 LANE CLOSURE, 2L, 2W, SHORT TERM OPERATIONS 701400-08 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY 701406-09 LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY 701421-07 LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY
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701428 TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
701456-03 PARTIAL EXIT RMAP CLOSURE FREEWAY/EXPRESSWAY
701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701502-06 URBAN LANE CLOSURE, 2L. 2W. WITH BIDIRECTIONAL LEFT TURN LANE
701601-09 URBAN LANE CLOSURE, MULTILANE. 1W AND 2W WITH NONTRAVERSABLE MEDIAN
701701-09 URBAN LANE CLOSURE, MULTILANE INTERSECTION

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	PLOT SCALE + 192.0000 /	CHECKED -	REVISED	DEPARTMENT OF TRANSPORTATION
	21.05 DATE + 10-0355	DATE	REVISED .	

INDEX OF SHEETS, STANDARDS OF SHEETS STA.

TO STA.

F.A. SECTION COUNTY TOTAL SHEETS NO.

VAR DO CHARGRAIL REPAIR FYIS-1 VARIOUS 3. 20

CONTRACT NO. 78475

ILLINOIS FED. AID PROJECT

## GENERAL NOTES

BEFORE ORDERING THE IMPACT ATTENUATORS. THE CONTRACTOR MUST CONTACT THE RESIDENT ENGINEER RECEIVE APPROVAL OF THE PROPOSED INSTALLATION.

ALL WORK IS TO BE REPLACED IN KIND OR AS INDICATED ON THE CONTRACT PLANS AND PROVISIONS.

THE LOCATIONS OF THE REPAIR AREAS SHALL BE DETERMINED BY THE ENGINEER.

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

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

THE LIMITS OF THE DAMAGED GUARDRAIL WILL BE MARKED WITH PAINT. THE REPLACEMENT PARTS AND THE QUANTITIES INDICATED ARE WITHIN THESE LIMITS AS MARKED.

REMOVED GUARDRAIL THAT IS NOT REPLACED ON THE SAME DAY MUST BE DELINEATED WITH LIGHTED BARRICADES. NO LOCATIONS WILL BE LEFT WITHOUT EITHER LIGHTED BARRICADES OR RESTORED GUARDRAIL AT ANY TIME.

GUARDRAIL MARKERS SHALL BE ATTACED TO TERMINAL SECTIONS. ALL OTHER MARKERS SHALL BE PLACED AT THE DISCRETION OF THE ENGINEER.

ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE TO BE GIVEN TO UTILITES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J. U. L. I. E. (PHONE: 800 892-0123) OR FOR NON-MEMBER. THE UTILITY COMPANY DIRECTLY.

NO OVERNIGHT LANE CLOSURES WILL BE ALLOWED.

THE CONTRACTOR SHALL BE ADVISED THAT THE GUARDRAIL PAY ITEMS INCLUDED IN THE PLANS MAY BE USED TO REPLACE/REPAIR SPBGR AND TRAFFIC BARRIER TERMINALS FOR THE NEW MIDWEST STANDARD AS SHOWN ON THE HIGHWAY STANDARDS AS WELL AS SPBGR AND TRAFFIC BARRIER TERMINAL INSTALLED PRIOR TO JAN. 1. 2007 AS SHOWN IN THE PLAN DETAILS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR UTILIZING THE CURRENT MIDWEST STANDARDS.

## COMMITMENTS

NONE

F10.5 44446 :	SSPA NASSA. A (Seedle)	CESIGNED -	REVISED			F.A. CONTRACTOR TOTAL SHEET
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	TOT STALL - SERVERS / M.	CHECKED	REVISED	DEPARTMENT OF TRANSPORTATION	GEGETINE HOTE	YAR DO CUARCRAIL REPAIR FYIG-1 VARIOUS 4 20 .
	PLOT OWER : 47/04/2015	OATE -	REVISEO		SCALE: SHEET OF SHEETS STA. TO STA.	CONTRACT NO. 78475

## SUMMARY OF QUANTITIES

COUNTY:	VA	RIOUS
ROUTE:	VA	RIOUS
FUNDING:	1007	STATE
TOTAL	MCHD	HIT AND RUN

			FUNDING:	100%	STATE
CODE	1751/ 05500107101	UNIT	TOTAL	MCHD	HIT AND RUN
NUMBER	ITEM DESCRIPTION	0811	OUANTITY	0021	0021
25000100	SEEDING, CLASS 1	ACRE	5	4	1
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	55	50	5
63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	4	4	
64300260	IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW). TEST LEVEL 3	EACH	4	3	
64401300	HIGH TENSION CABLE MEDIAN BARRIER TERMINALS	EACH	3	3	
67100100	MOBILIZATION	L SUM	1	0.85	0.15
X0325899	REPAIR HIGH TENSION CABLE (CIBRALTAR)	FOOT	100	100	
X0325900	REPAIR HIGH TENSION BARRIER TERMINAL (GIBRALTAR)	EACH	2	2	
x0325902	REMOVE AND REPLACE POSTS (GIBRALTAR)	EACH	20	20	
X0326201	REPAIR HIGH TENSION CABLE (TRINITY)	FOOT	100	100	
X0326202	REPAIR POSTS (TRINITY)	EACH	20	20	
X0326203	REPAIR HIGH TENSION CABLE SYSTEM END SECTION (TRINITY)	EACH	2	2	
×6300210	CUARORAIL BLOCKS	EACH	240	225	15
X6300215	RAIL ELEMENT PLATES	EACH	235	225	10
X6300217	RAIL ELEMENT PLATES (RADIUS)	EACH	10	8	2

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

ALE: SHEET OF SHEETS STA. TO STA.

F.A. SECTION COUNTY TOTAL SHEETS NO.

VAS D9 GUARDRAR REPAIR FYIG-1 VARIOUS 5 20

CONTRACT NO. 78475

FILCINOIS FED. AID PROJECT

<del>-25000100</del>	SEEDING, CLASS 1	AGRE	5			
23000100	3220110, 9233 1	ACRE				
X6300220	EXTRUDER HEAD	EACH	4	3	1	
x6300230	STEEL POSTS	EACH	240	225	15	
X6300231	STEEL POST, ATTACHED TO STRUCTURES	EACH	2	2		
		·				-
×6300235	WOOD POSTS	EACH	30	15	15	
x6310088	TRAFFIC BARRIER TERMINAL TYPE 6A (SPECIAL)	EACH	2	. 2		
X6310176	TRAFFIC BARRIER TERMINAL. TYPE 2 (SPECIAL)	EACH	2	1	1	
X6310214	TRAFFIC BARRIER TERMINAL, TYPE 6 (SPECIAL)	EACH	3	3		
X6311215	TRAFFIC BARRIER TERMINAL (Ç-A-T)	EACH	3	2	1	
X6311217	TRAFFIC BARRIER TERMINAL, TYPE 68 (SPECIAL)	EACH	3	3		
VC331110	STEEL PASTS SPECIAL					
x6331110	STEEL POSTS, SPECIAL	EACH	2	Z		
X6430210	REMOVE AND REINSTALL IMPACT ATTENUATORS	EACH	34	30	4	
X6640298	CHAIN LINK FENCE (SPECIAL)	FOOT	150	100	50	
x6650208	WOVEN WIRE FENCE REMOVAL AND REPLACEMENT	FOOT	100	100		

54:1-1688459(00x100cctorocateo+2\*4100\*

# SUMMARY OF QUANTITIES - CONT

COUNTY:	V	ARIOUS
ROUTE:	V	ARIOUS
FUNDING:	100	% STATE
TOTAL	MCHD	HIT AND RUN

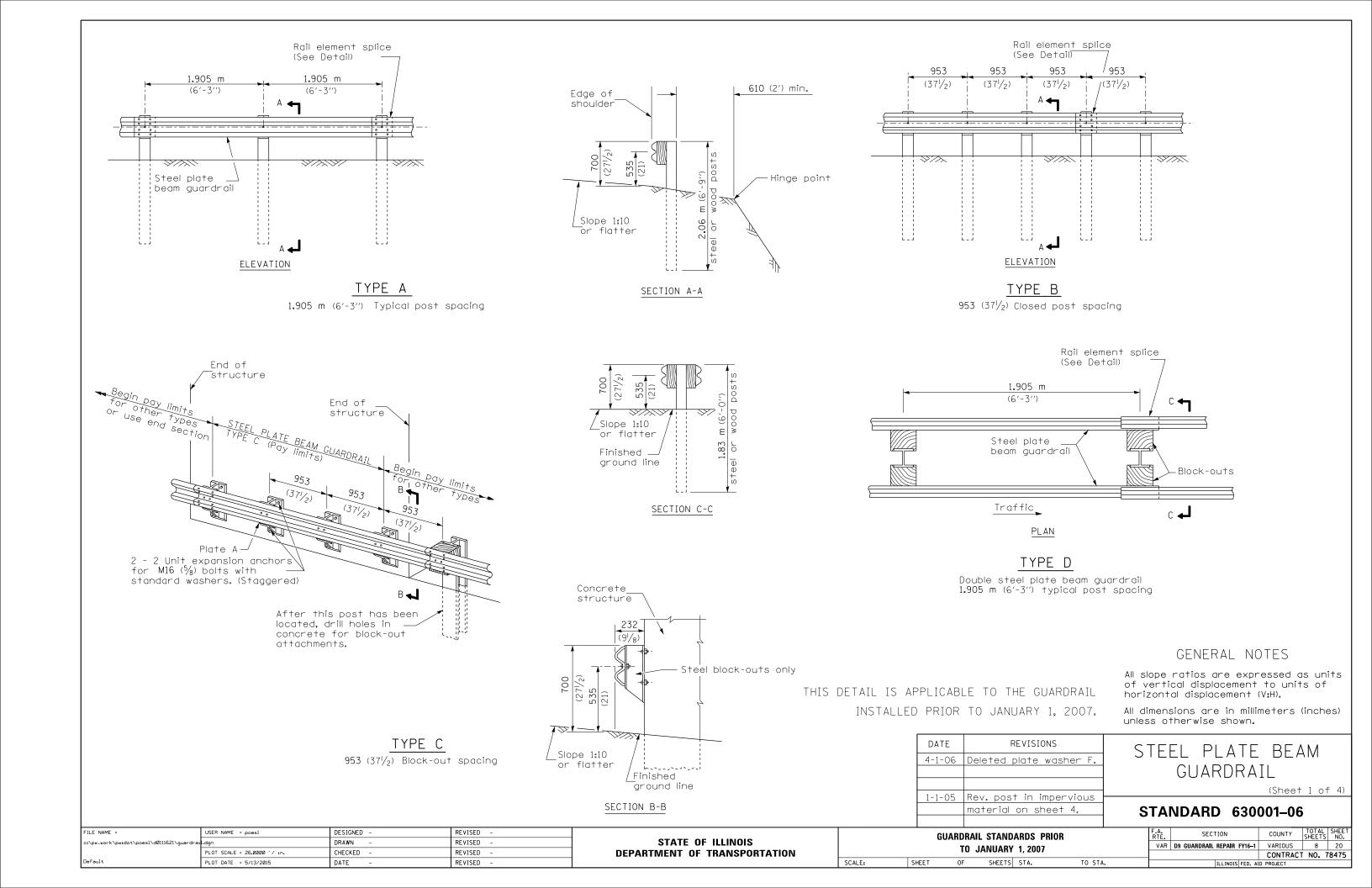
			FUNDING:	100% S	TATE
CODE	ITEM DESCRIPTION	UNIT	TOTAL	MCHD	HIT AND RUN
NUMBER			OUANTITY	0021	0021
25000100	SEEDING, CLASS 1	ACRE	5	<del></del>	
X7011834	TRAFFIC CONTROL AND PROTECTION. CALL OUT WORK	EACH	33	. 25	8
X7011836	TRAFFIC CONTROL AND PROTECTION, FREEWAY/EXPRESSWAY, CALL OUT WORK	EACH	34	27	7
Z0052410	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL (TANGENT)	EACH	14	8 .	6
20052415	REPAIR TRAFFIC BARRIER TERMINAL. TYPE 1 SPECIAL (FLARED)	EACH	2	2	
20053200	REPAIR TRAFFIC BARRIER TERMINAL. TYPE 6	EACH	3	3	
Z0053210	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	3	3	
Z0053220	REPAIR TRAFFIC BARRIER TERMINAL. TYPE 68	EACH	3	3	

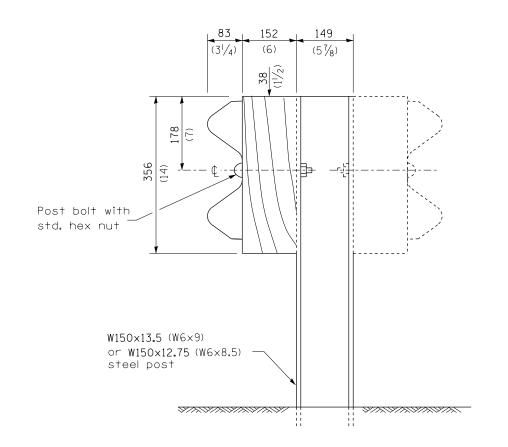
FRIZ BANG :	DEER TOTAL IN GOVERN	DESIGNED -	REVISED
2=1 - 1,58455794°55,1100,249,1141057790	territoria salumente con accionante del con a con accionante de conserva de conserva de conserva de conserva d Conservação de COSTO COSTO CONTRA CONT	ORANGOSO CHESTOS DE COS SUBER O E COSE O GUE	REVISEO ·
	COST SORE IN SECURIOR TO AN	CHECKED -	REVISED
#PODELNAME#	FLC1 (ATE - 4/00/200)	DATE	REVISED

STATI	E 01	FILLINOIS
DEPARTMENT	OF	TRANSPORTATION

V.Ei	SHEET	QF	SHEETS STA.	TO STA,
		SUMM		

f	A. RTE.	SECTION	COUNTY	TOYAL SHEETS	SHEET NO.
r	YAR	D9 GUARCHAIL HEPAIR FYT6-1	YARIOUS	7	20
		amende al manes of the first than the configuration and configuration and proper section in the configuration and the configuration	CONTRACT	NO. 7	8475
_[_		ILCINOIS FED. A	D PROJECT		





### STEEL POST CONSTRUCTION

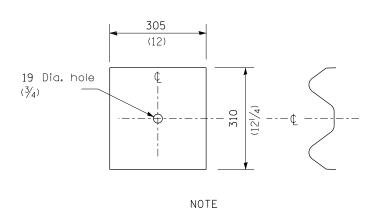
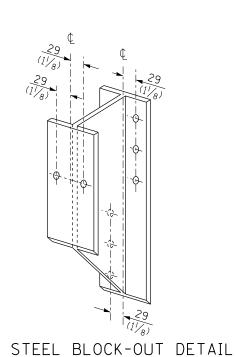


Plate A shall be placed between rail element and block-out at non-splice mounting points only when steel block-outs are used.

### PLATE A



Bolt not to extend more than 6 (1/4) past nut

150x150 (6x6) Rough sawn timber toenailed to post

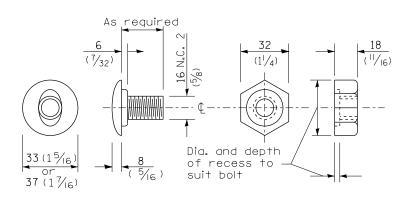
152 200

Std. flat washer

Bolt not to extend more than 6 (1/4) past nut

200x150 (8x6) Rough sawn timber post

WOOD POST CONSTRUCTION



POST OR SPLICE BOLT & NUT

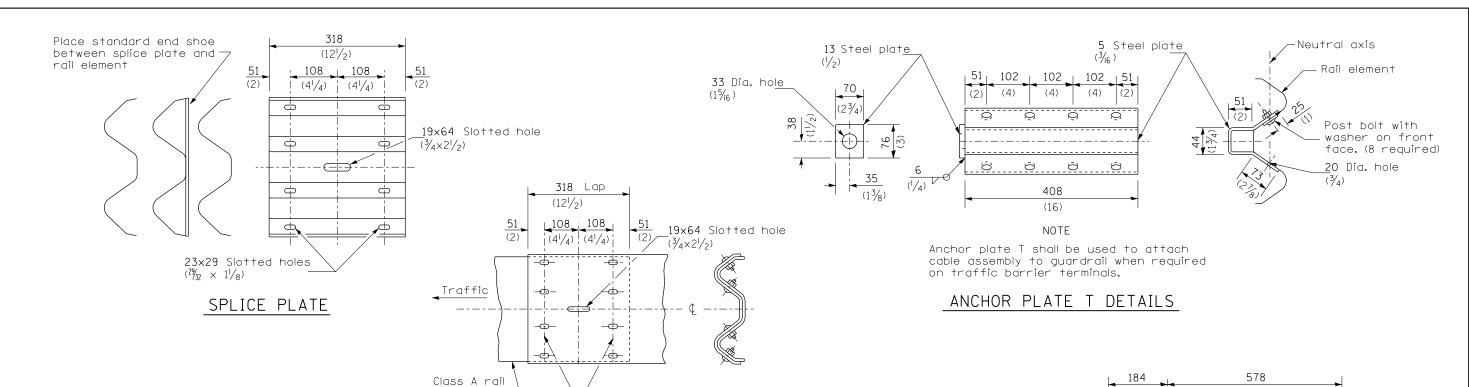
THIS DETAIL IS APPLICABLE TO THE GUARDRAIL INSTALLED PRIOR TO JANUARY 1, 2007.

## STEEL PLATE BEAM GUARDRAIL

(Sheet 2 of 4)

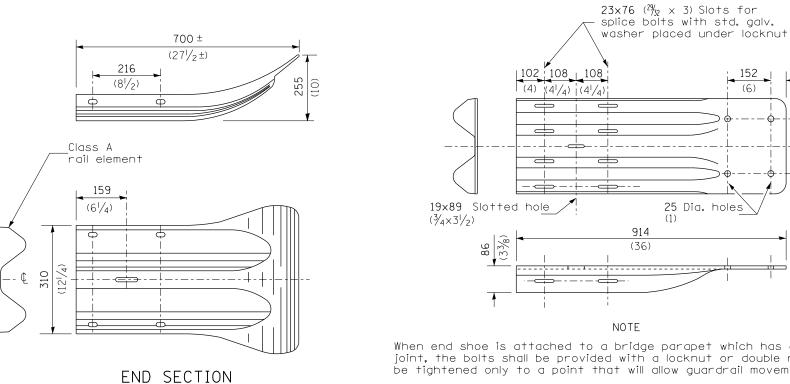
#### STANDARD 630001-06

FILE NAME =	USER NAME = poesl	DESIGNED -	REVISED -		GUARDRAIL STANDARDS PRIOR					 R	F.A.	SECTION	COUNTY	TOTAL SHEET
c:\pw_work\pwidot\poesl\d0111621\guardrai	l.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS						VAR	D9 GUARDRAIL REPAIR FY16-1	VARIOUS	9 20	
	PLOT SCALE = 26.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	TO JANUARY 1, 2007							CONTRACT	T NO. 78475	
Default	PLOT DATE = 5/13/2015	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.				TO STA.		ILLINOIS FED. AII	PROJECT		

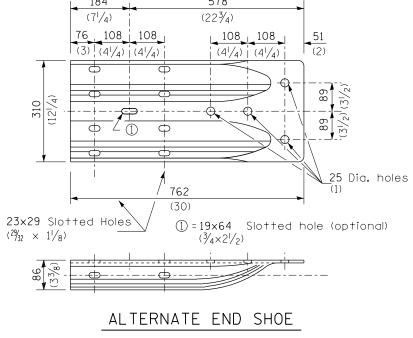


 $23\times29~(^{2}\%_{32}~\times~1^{1}/_{8})$  Slotted holes for M16  $(^{5}\%_{8})$  splice bolts

#### RAIL ELEMENT SPLICE



element



THIS DETAIL IS APPLICABLE TO THE GUARDRAIL INSTALLED PRIOR TO JANUARY 1, 2007.

When end shoe is attached to a bridge parapet which has an expansion joint, the bolts shall be provided with a locknut or double nut and shall be tightened only to a point that will allow guardrail movement.

(2)

The standard end shoe shall be attached to the concrete with pre-drilled or self-drilling anchor bolts. The anchor cone shall be set flush with the surface of the concrete.

Externally threaded studs protruding from the surface of the concrete will not be permitted.

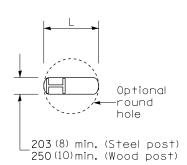
### END SHOE

## STEEL PLATE BEAM GUARDRAIL

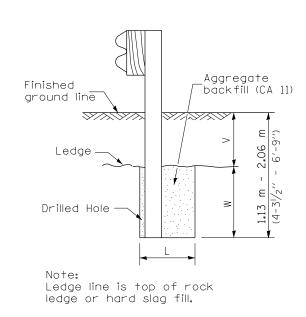
(Sheet 3 of 4)

#### STANDARD 630001-06

ſ	ILE NAME =	USER NAME = poesl	DESIGNED -	REVISED -		GUARDRAIL STANDARDS PRIOR				F.A.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.		
	c:\pw_work\pwidot\poes1\d0111621\guardrail.dgn		uardrail.dgn DRAWN - REVISED -		STATE OF ILLINOIS							VAR	D9 GUARDRAIL REPAIR FY16-1	VARIOUS	10 20
		PLOT SCALE = 26.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	TO JANUARY 1, 2007					•	CONTRAC	CT NO. 78475		
	Default	PLOT DATE = 5/13/2015	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.				TO STA.		ILLINOIS FED. AI	D PROJECT		

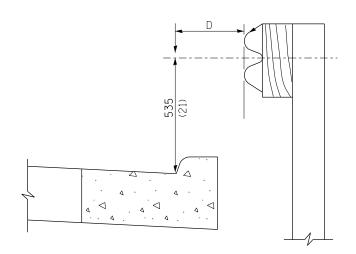


#### PLAN



#### ELEVATION

# FOOTING FOR POST WHEN IMPERVIOUS MATERIAL IS ENCOUNTERED



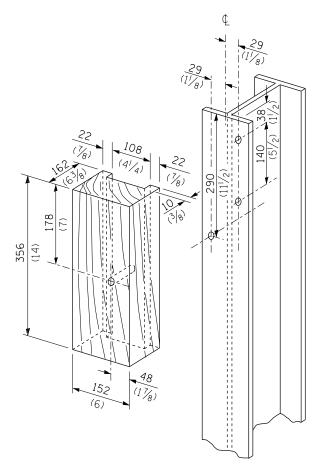
#### Note:

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.

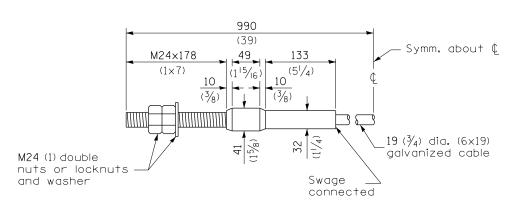
### GUARDRAIL PLACED BEHIND CURB

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

V	W	L							
v	, vv	Steel Post	Wood Post						
0 - 460	610	580							
(0 - 18)	(24)	(23)							
>460 - 825	305	203	250						
(>18 - 41.5)	(12)	(8)	(10)						
>825 - 1.13 m	305 - 0	203	250						
(>41.5 - 53.5)	(12 - 0)	(8)	(10)						



WOOD BLOCK-OUT AND STEEL POST DETAILS



#### CABLE ASSEMBLY

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

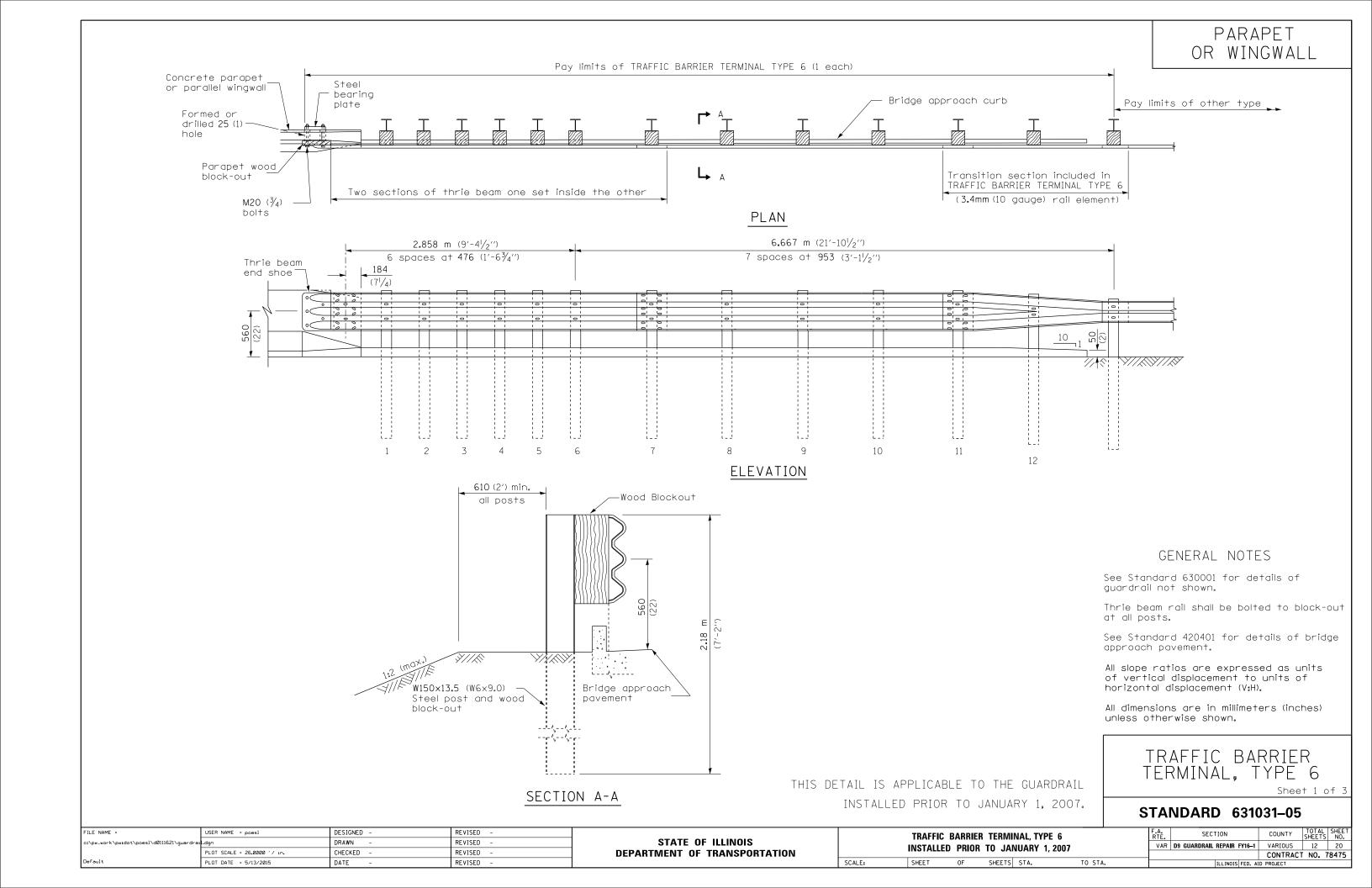
THIS DETAIL IS APPLICABLE TO THE GUARDRAIL INSTALLED PRIOR TO JANUARY 1, 2007.

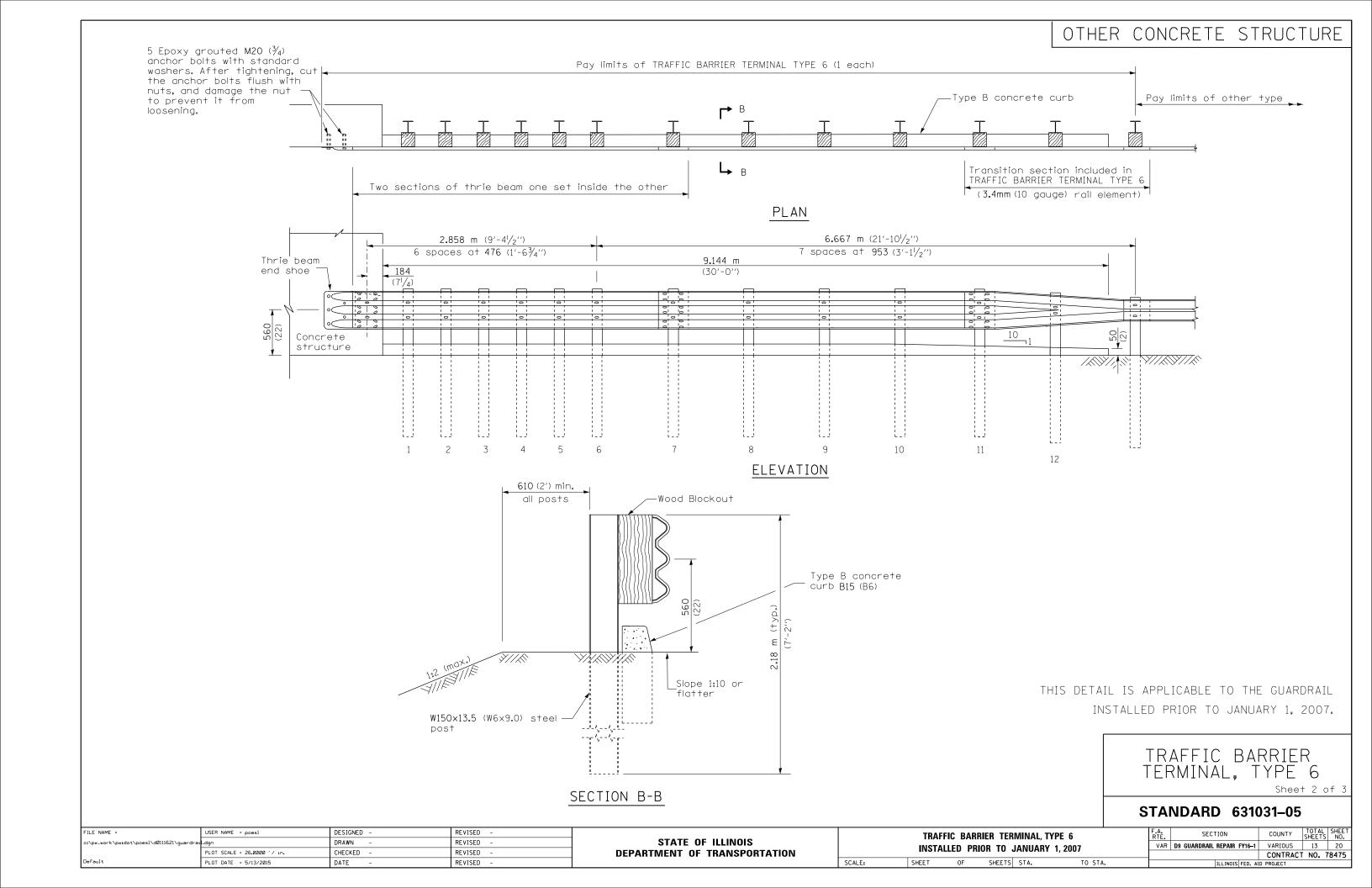
## STEEL PLATE BEAM GUARDRAIL

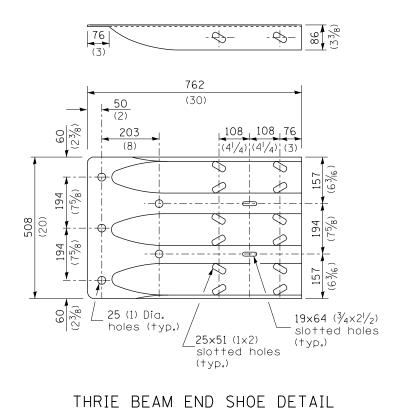
(Sheet 4 of 4)

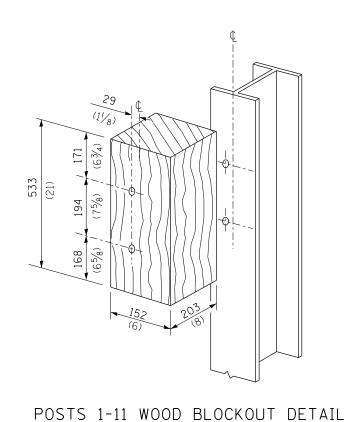
STANDARD 630001-06

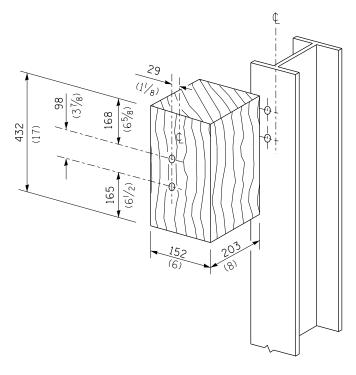
FILE NAME =	USER NAME = poesl	DESIGNED -	REVISED -		GUARDRAU STANDARDS PRIOR				GUARDRAIL STANDARDS PRIOR		F.A.	SECTION	COUNTY	TOTAL SHEET
c:\pw_work\pwidot\poesl\d0111621\guardrai	l.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS						VAR	D9 GUARDRAIL REPAIR FY16-1	VARIOUS	11 20	
	PLOT SCALE = 26.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	TO JANUARY 1, 2007							CONTRACT	T NO. 78475	
Default	PLOT DATE = 5/13/2015	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.				TO STA.		ILLINOIS FED. AII	PROJECT		



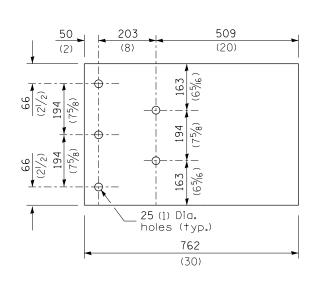


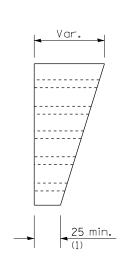


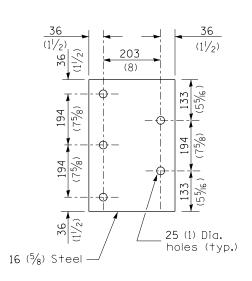




POST 12 WOOD BLOCKOUT DETAIL







### PARAPET WOOD BLOCK-OUT DETAIL

### PARAPET STEEL BEARING PLATE DETAIL

(5 each individual  $125 \times 125 \times 16$  ( $5 \times 5 \times 5\%$ ) steel plates with centered 25 (1) holes may be substituted for the plate shown.)

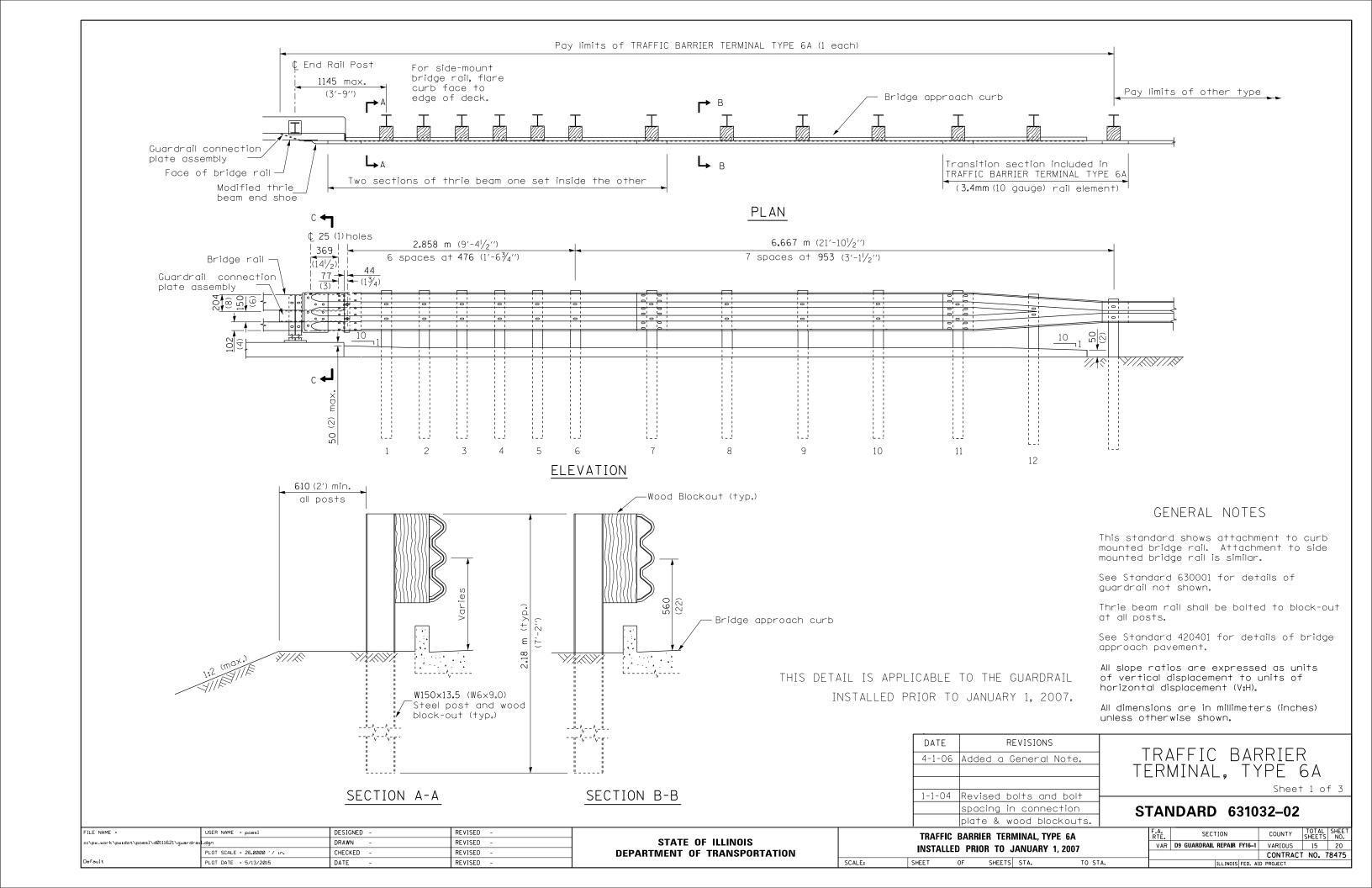
THIS DETAIL IS APPLICABLE TO THE GUARDRAIL INSTALLED PRIOR TO JANUARY 1, 2007.

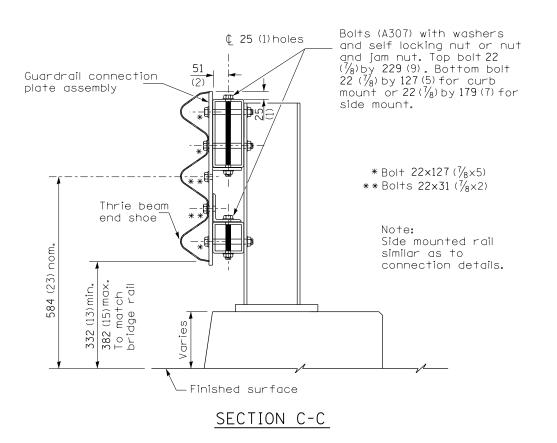
## TRAFFIC BARRIER TERMINAL, TYPE 6

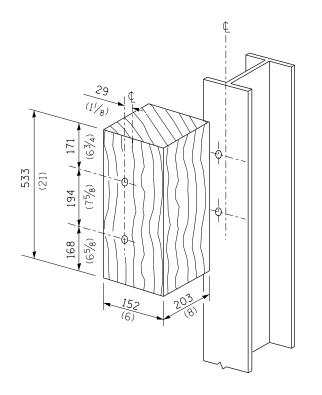
Sheet 3 of

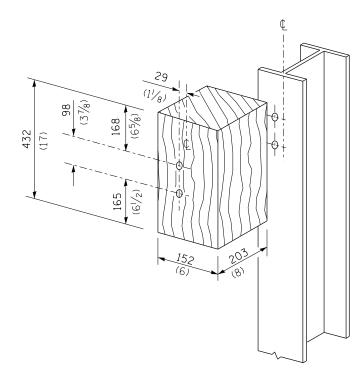
STANDARD 631031-05

FILE NAME =	USER NAME = poesl	DESIGNED -	REVISED -		TRAFFIC BARRIER TERMINAL, TYPE 6 INSTALLED PRIOR TO JANUARY 1, 2007				E 6	F.A.	SECTION	COUNTY	TOTAL	SHEET	
c:\pw_work\pwidot\poesl\d0111621\guardrai	l.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS					· · · · · · · · · · · · · · · · · · ·		VA	R D9 GUARDRAIL REPAIR FY16-1	VARIOUS	14	20
	PLOT SCALE = 26.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		INSTALL	ED PKIUI	K IU JA	ANUAKY I,	2007			CONTRAC	T NO.	78475
Default	PLOT DATE = 5/13/2015	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	-	ILLINOIS FED. A	ID PROJECT		



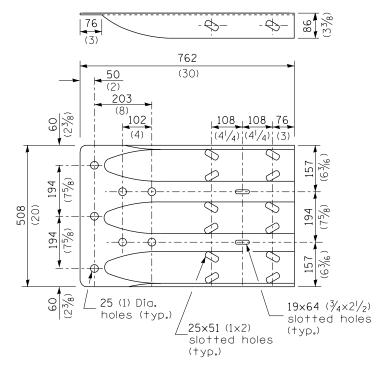






POSTS 1-11 WOOD BLOCKOUT DETAIL

POST 12 WOOD BLOCKOUT DETAIL



MODIFIED THRIE BEAM END SHOE DETAIL

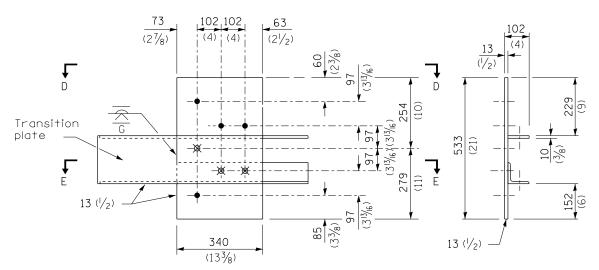
THIS DETAIL IS APPLICABLE TO THE GUARDRAIL INSTALLED PRIOR TO JANUARY 1, 2007.

TRAFFIC BARRIER TERMINAL, TYPE 6A

Sheet 2 of 3

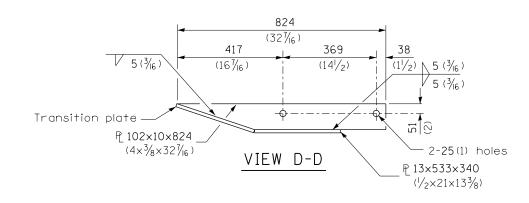
STANDARD 631032-02
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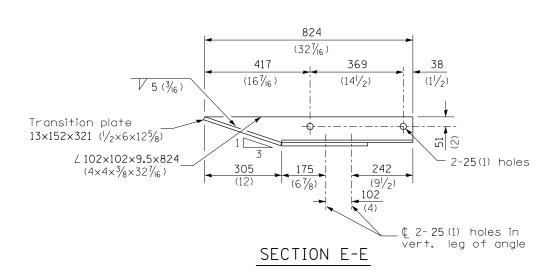
., TYPE 6A	RTF	SECTION	COUNTY	SHEETS	NO.
	VAR I	D9 GUARDRAU REPAIR FY16-1	VARIOUS	16	20
INSTALLED PRIOR TO JANUARY 1, 2007				T NO. 7	8475
TO STA.		ILLINOIS FED. AID			
-	RY 1, 2007	RY 1, 2007	TYPE 6A RTE. SECTION  VAR D9 GUARDRAIL REPAIR FY16-1	TYPE 6A         RTE.         SECTION         COUNTY           RY 1, 2007         VAR         D9 GUARDRAIL REPAIR FY16-1         VARIOUS           CONTRAC         CONTRAC	TYPE 6A         RTE.         SECTION         COUNTY SHEETS           RY 1, 2007         VAR D9 GUARDRAIL REPAIR FY16-1         VARIOUS 16           CONTRACT NO. 73



#### GUARDRAIL CONNECTION PLATE ASSEMBLY DETAILS

(Mirror for opposite end)

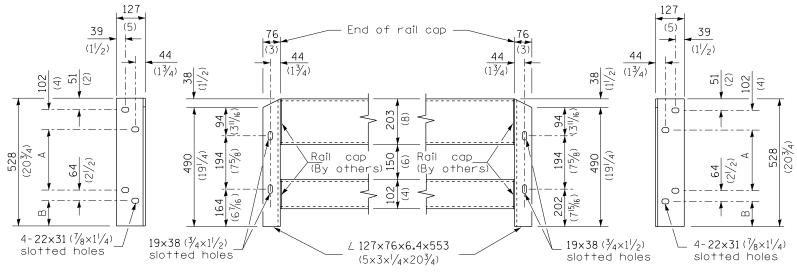




- $\bowtie$  Drill and tap 3 holes for 22( $\frac{7}{8}$ ) H.S. bolts.

<u>LEGEND</u>

Dimensions	А	В
For Curb	222	89
Mounted Rail	(8 <sup>3</sup> ⁄ <sub>4</sub> )	(3 <sup>1</sup> / <sub>2</sub> )
For Side	247	64
Mounted Rail	(9¾ <sub>4</sub> )	(2 <sup>1</sup> / <sub>2</sub> )



#### DEPARTURE END VIEW

### CONNECTION ANGLES

(Install angles to rail caps using  $19(\frac{5}{8})$  washers and self-locking nuts or nuts and jam nuts, to be provided by others)

THIS DETAIL IS APPLICABLE TO THE GUARDRAIL INSTALLED PRIOR TO JANUARY 1, 2007.

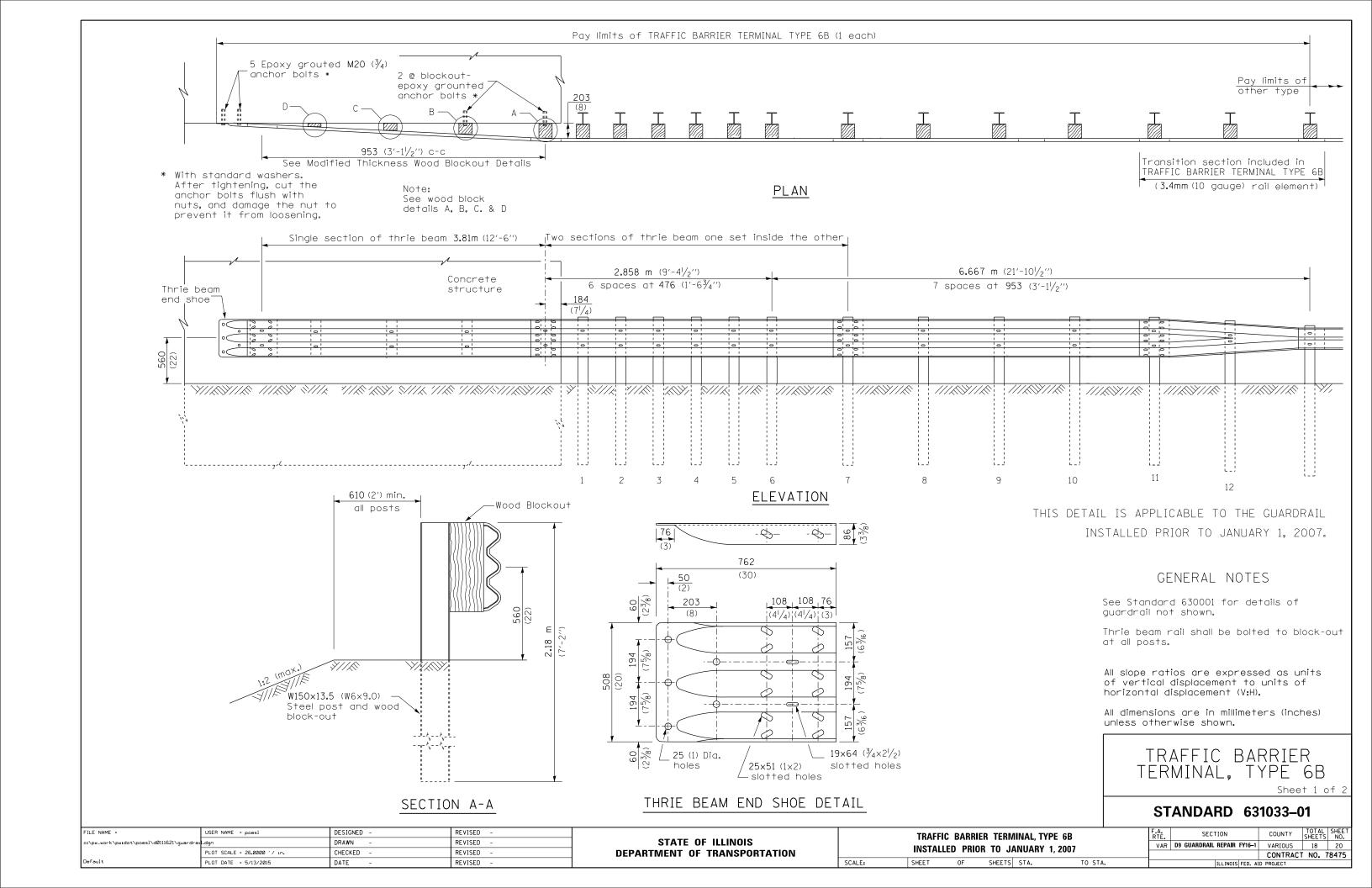
TRAFFIC BARRIER TERMINAL, TYPE 6A

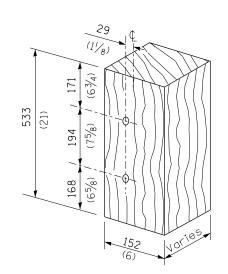
Sheet 3 of 3

APPROACH END VIEW

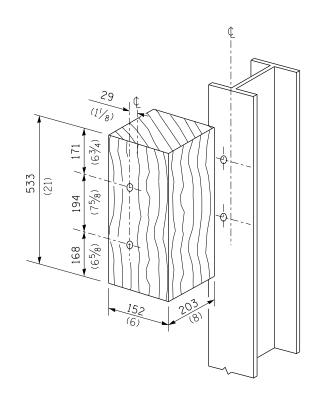
STANDARD 631032-02

FILE NAME =	USER NAME = poesl	DESIGNED -	REVISED -		TRAFFIC BARRIER TERMINAL, TYPE 6A INSTALLED PRIOR TO JANUARY 1, 2007				F.A.	SECTION	COUNTY	TOTAL SHEET			
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	PLOT SCALE = 26.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION							CONTRAC	T NO. 78475			
Default	PLOT DATE = 5/13/2015	DATE -	REVISED -		SCALE:	SHEET	OF	SHEET	TS STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		

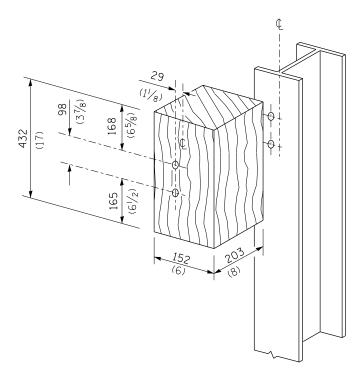




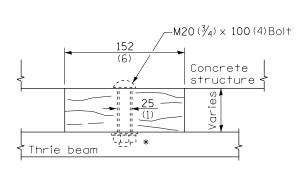
MODIFIED THICKNESS WOOD BLOCKOUT DETAIL



POSTS 1-11 WOOD BLOCKOUT DETAIL

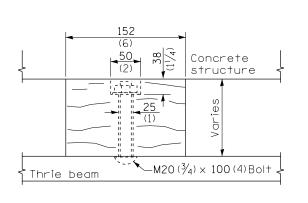


POST 12 WOOD BLOCKOUT DETAIL

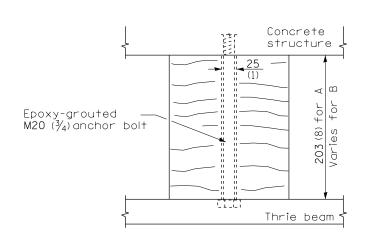


### WOOD BLOCKOUT D

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



WOOD BLOCKOUT C



WOOD BLOCKOUT A & B

THIS DETAIL IS APPLICABLE TO THE GUARDRAIL INSTALLED PRIOR TO JANUARY 1, 2007.

TRAFFIC BARRIER TERMINAL, TYPE 6B

Sheet 2 of 2

STANDARD 631033-01

FILE NAME =	USER NAME = poesl	DESIGNED -	REVISED -			TRAFFIC BARRIER TERMINAL, TYPE 6B	F./	A. SECTION	COUNTY	TOTAL SH	EET
c:\pw_work\pwidot\poesl\d0111621\guardrai	l.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS		·		/AR D9 GUARDRAIL REPAIR FY16-1	VARIOUS	19	20.
	PLOT SCALE = 26.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		INSTALLED PRIOR TO JANUARY 1, 2007			CONTRACT	NO. 784	75
Default	PLOT DATE = 5/13/2015	DATE -	REVISED -		SCALE:	SHEET OF SHEETS STA. TO STA.		ILLINOIS FED. AI			-

