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FOR INDEX OF SHEETS, SEE SHEET NO. 3

**STATE OF ILLINOIS** 

**DEPARTMENT OF TRANSPORTATION** 

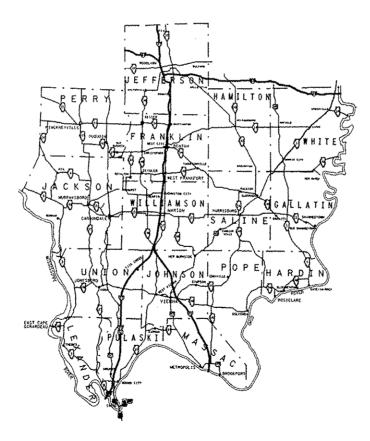
**DIVISION OF HIGHWAYS** 

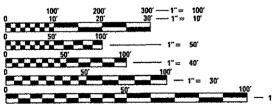
# **PROPOSED HIGHWAY PLANS**

**VARIOUS ROUTES SECTION D9 GUARDRAIL REPAIR FY17-1** 

## **VARIOUS COUNTIES**

C-99-028-16





FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS

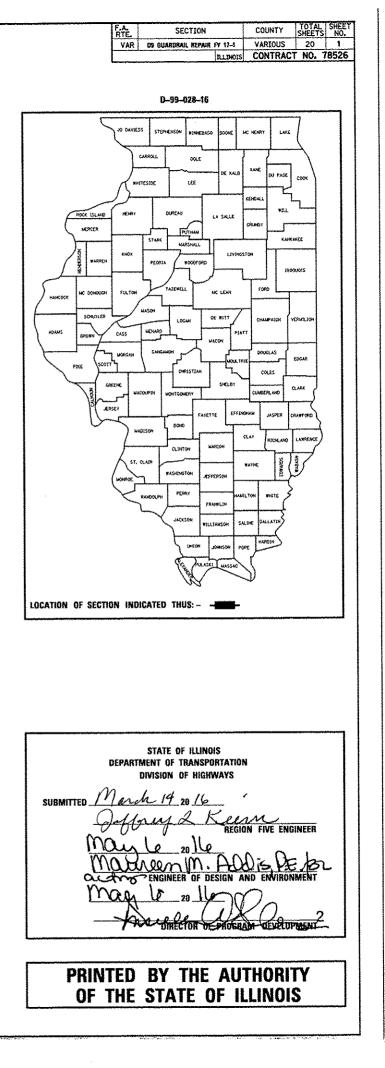
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED. J.U.L.I.E. JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

**PROJECT ENGINEER SUSAN POE** 

# CONTRACT NO. 78526

**PROJECT MANAGER SUSAN POE** 

OR 811



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# INDEX OF SHEETS

SHEET NO. 1	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)

# STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS
001006	DECIMAL OF AN INCH AND A FOOT
630001-10	STEEL PLATE BEAM GUARDRAIL
630301-06	SHOULDER WIDENING FOR TYPE 1 (SHOULDER WIDENING FOR TYPE 1)
631011-09	TRAFFIC BARRIER TERMINAL, TYPE 2
631031-14	TRAFFIC BARRIER TERMINAL, TYPE
631032-08	TRAFFIC BARRIER TERMINAL, TYPE
631033-06	TRAFFIC BARRIER TERMINAL, TYPE
635001-02	DELINEATORS
643001-02	SAND MODULE IMPACT ATTENUATORS
664001-02	CHAIN LINK FENCE
665001-02	WOVEN WIRE FENCE
701001-02	OFF ROAD OPERATIONS, 2L, 2W, MOR
701006-05	OFF ROAD OPERATIONS, 2L, 2W, 15'
701011-04	OFF ROAD OPERATIONS, 2L, 2W, [
701101-05	OFF ROAD OPERATIONS, MULTILANE,
701106-02	OFF ROAD OPERATIONS. MULTILANE,
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY F
701301-04	LANE CLOSURE, 2L, 2W, SHORT TERM
701400-08	APPROACH TO LANE CLOSURE, FREEW
701406-10	LANE CLOSURE, FREEWAY/EXPRESS
701421-07	LANE CLOSURE, MULTILANE, DAY OP
	FOR SPEEDS GREATER OR EQUAL TO
701428-01	TRAFFIC CONTROL SETUP AND REMO
701456-03	PARTIAL EXIT RMAP CLOSURE FREE
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDI
701502-06	URBAN LANE CLOSURE, 2L, 2W, WITH
701601-09	URBAN LANE CLOSURE, MULTILANE,
701701-10	URBAN LANE CLOSURE, MULTILANE
701901-05	TRAFFIC CONTROL DEVICES
782006	GUARDRAIL AND BARRIER WALL REF
701602-07	
701606-10	

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# 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 ATTACHED 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 ADDITONAL COMPENSATION WILL BE ALLOWED FOR UTILIZING THE CURRENT MIDWEST STANDARDS.

# COMMITMENTS

NONE

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CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	MCHD 0021
25000100	SEEDING, CLASS 1	ACRE	5	
C21001C7		710U		
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	80	
63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	5	••••
64300260	IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4	
64401300	HIGH TENSION CABLE MEDIAN BARRIER TERMINALS	EACH	3	
67100100	MOBILIZATION	L SUM	1	
X0325899	REPAIR HIGH TENSION CABLE (GIBRALTAR)	FOOT	100	
X0325900	REPAIR HIGH TENSION BARRIER TERMINAL (GIBRALTAR)	EACH	2	
X0325902	REMOVE AND REPLACE POSTS (GIBRALTAR)	EACH	20	
X0326201	REPAIR HIGH TENSION CABLE (TRINITY)	FOOT	100	
X0326202	REPAIR POSTS (TRINITY)	EACH	20	**************************************
X0326203	REPAIR HIGH TENSION CABLE SYSTEM END SECTION (TRINITY)	EACH	2	
·				
X6300210	GUARDRAIL BLOCKS	EACH	240	
X6300215	RAIL ELEMENT PLATES	EACH	240	

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X6300217	RAIL ELEMENT PLATES (RADIUS)	EACH	10	8	2
X6300220	EXTRUDER HEAD	EACH	4	3	l
X6300230	STEEL POSTS	EACH	245	225	20
X6300231	STEEL POST, ATTACHED TO STRUCTURES	EACH	2	2	
					20
X6300235	WOOD POSTS	EACH	35	15	
X6310088	TRAFFIC BARRIER TERMINAL TYPE 6A (SPECIAL)	EACH	3	3	
X6310176	TRAFFIC BARRIER TERMINAL, TYPE 2 (SPECIAL)	EACH	3	2	1
X6310214	TRAFFIC BARRIER TERMINAL, TYPE 6 (SPECIAL)	EACH	4	4	
X6311215	TRAFFIC BARRIER TERMINAL (C-A-T)	EACH	4	3	1
·····					
X6311217	TRAFFIC BARRIER TERMINAL, TYPE 6B (SPECIAL)	EACH	4	4	
X6331110	STEEL POSTS, SPECIAL	EACH	2	2	
X6430210	REMOVE AND REINSTALL IMPACT ATTENUATORS	EACH	34	30	4
X6640298	CHAIN LINK FENCE (SPECIAL)	FOOT	150	100	50
VCCEODOD		FAAT			
X6650208	WOVEN WIRE FENCE REMOVAL AND REPLACEMENT	FOOT	100	100	
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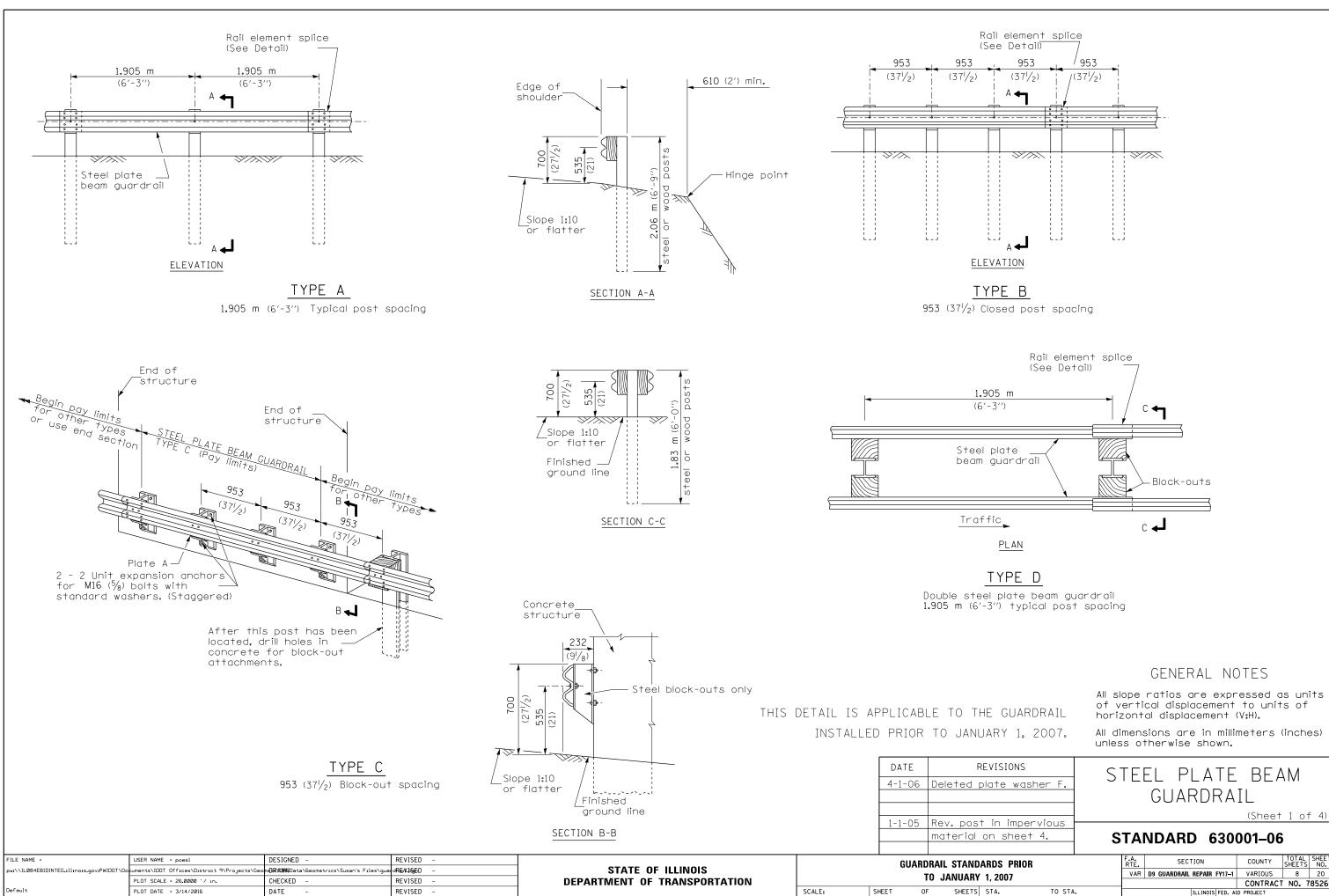
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X7010410	SPEED DISPLAY TRAILER	CAL MO	4	3. 5	0.5	
X7011834	TRAFFIC CONTROL AND PROTECTION, CALL OUT WORK	EACH	50	30	20	
X7011836	TRAFFIC CONTROL AND PROTECTION, FREEWAY/EXPRESSWAY, CALL OUT WORK	EACH	50	30	20	
20052410	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL (TANGENT)	EACH	22	10	12	
Z0052415	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL (FLARED)	EACH	3	3		
20053200	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4		
20053210	REPAIR TRAFFIC BARRIER TERMINAL. TYPE 5A	EACH	4	4		
20053220	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 6B	EACH	4	4		
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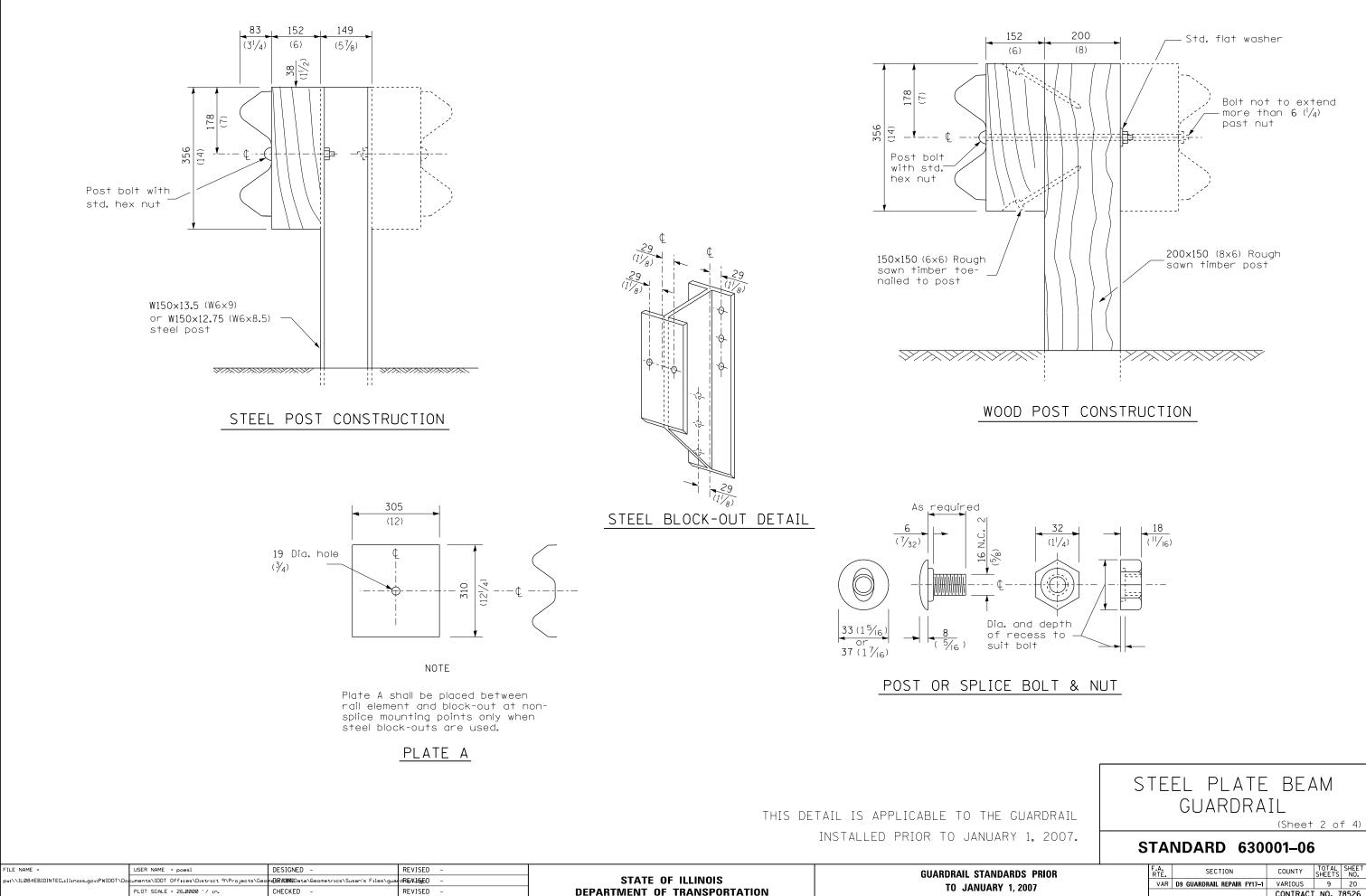
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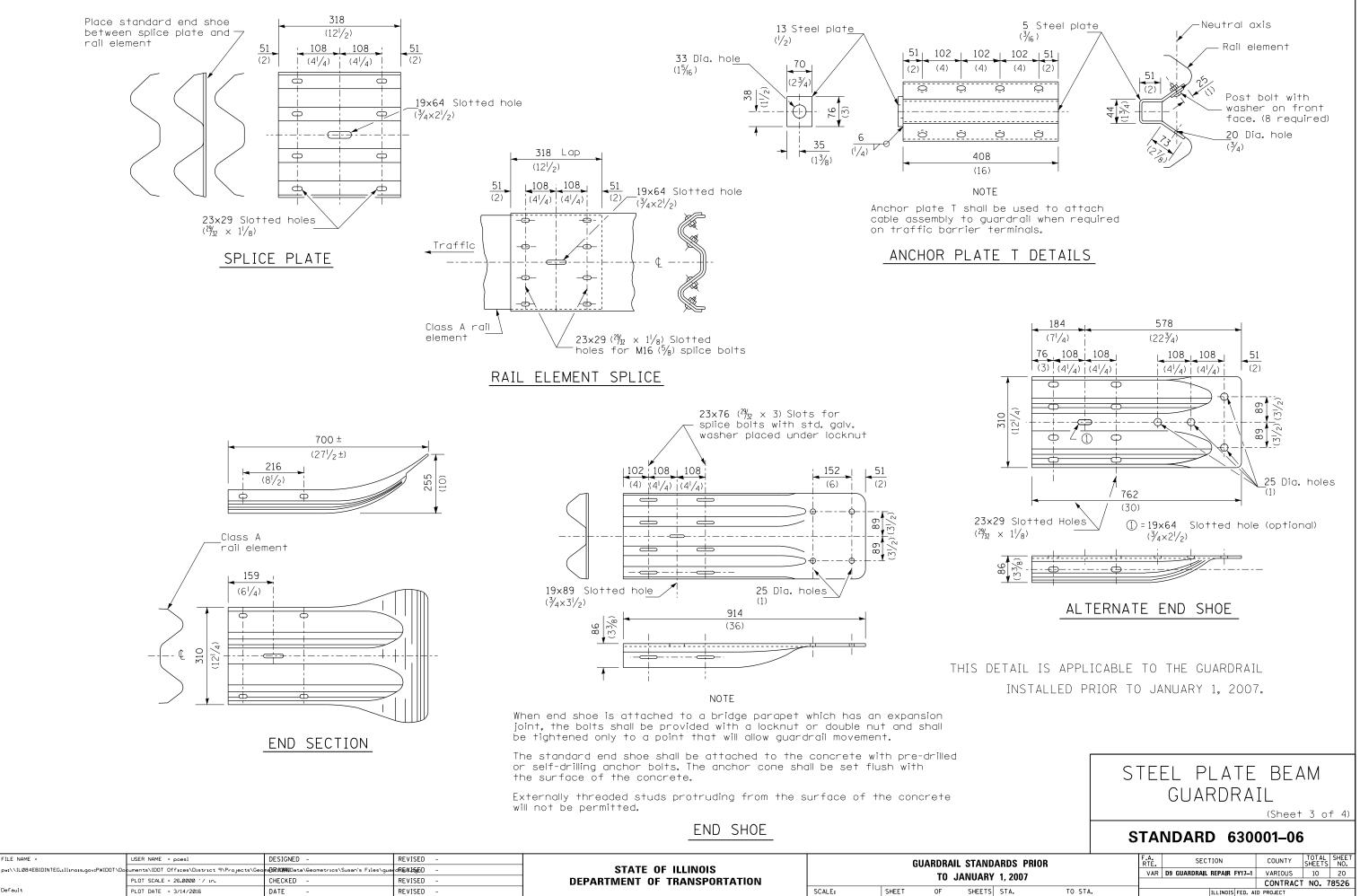
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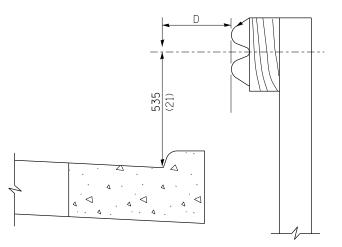
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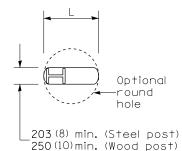


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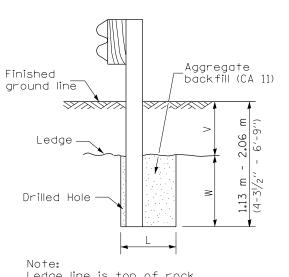


If it is necessary for D to be more than 300 (12) and less than 3.0 m (10'-0'') type M-5 (M-2) curb and gutter (Std. 606001) shall be used in front of and in advance

GUARDRAIL PLACED BEHIND CURB (D = 0 desirable to 300 (12) maximum)





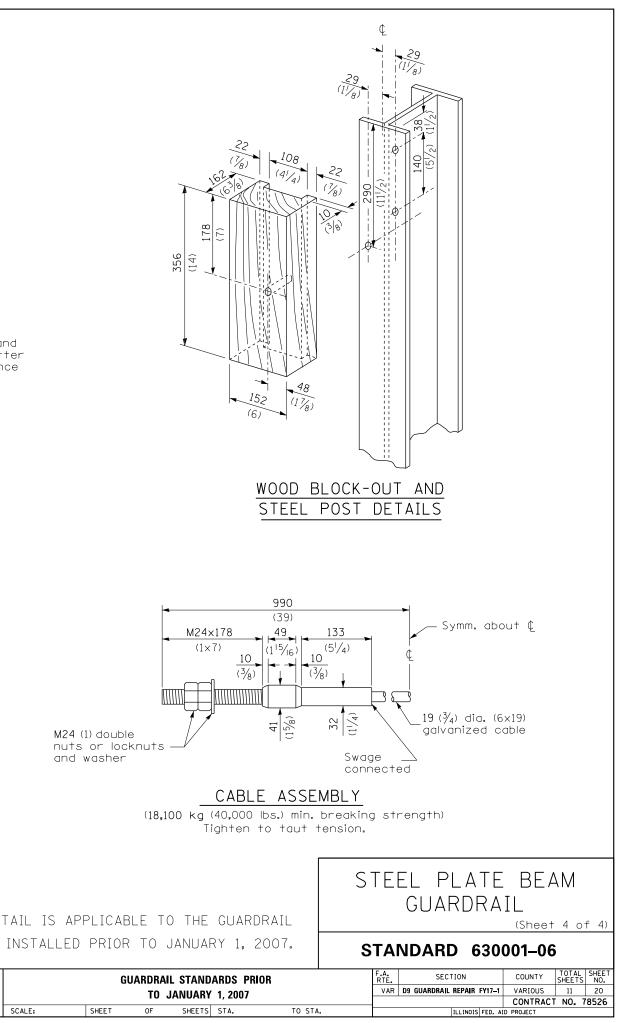


Ledge line is top of rock ledge or hard slag fill.

### ELEVATION

### FOOTING FOR POST WHEN IMPERVIOUS MATERIAL IS ENCOUNTERED

V	W	L					
v	vv	Steel Post	Wood Post				
0 - 460	610	530	580				
(0 - 18)	(24)	(21)	(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)				

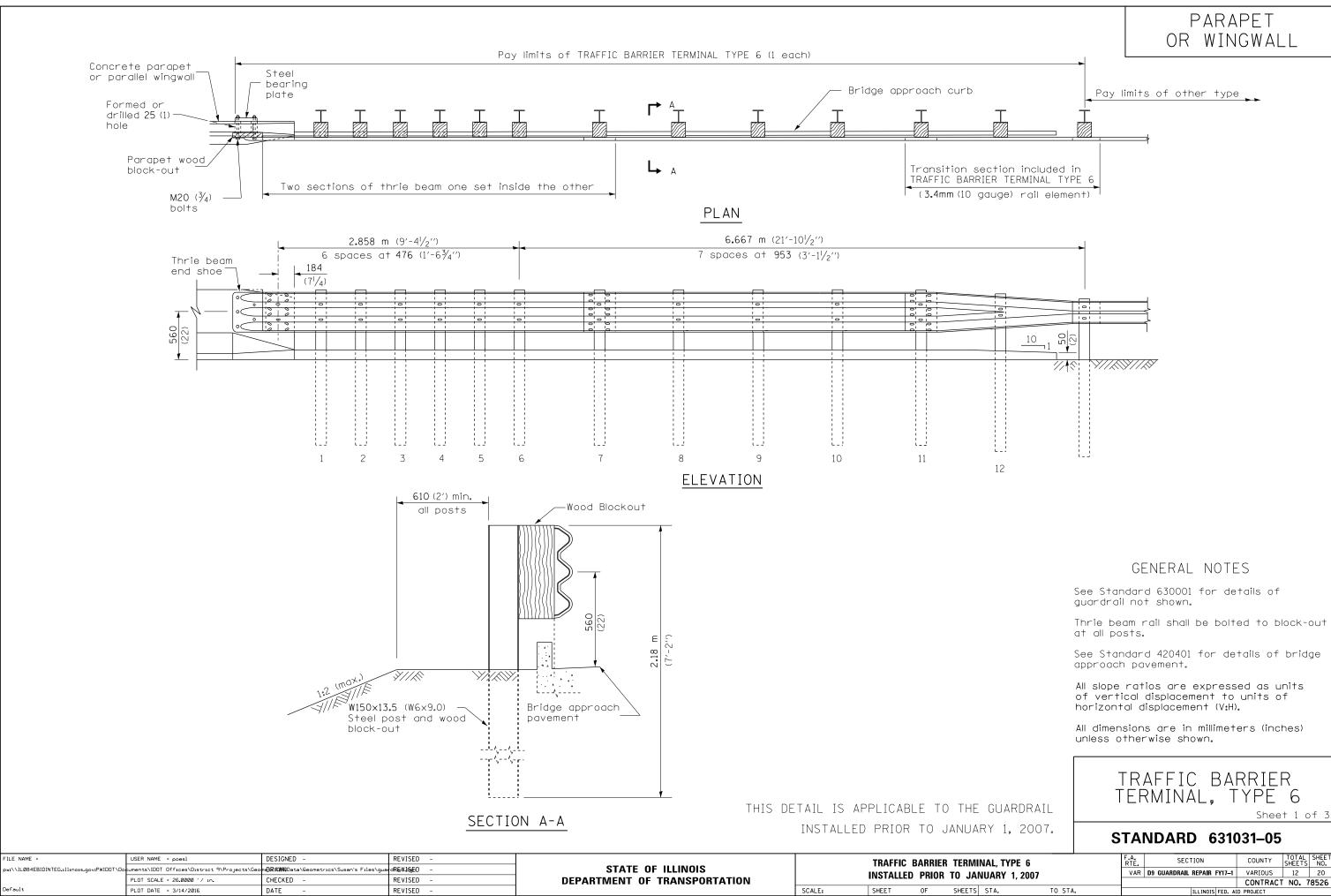


### THIS DETAIL IS APPLICABLE TO THE GUARDRAIL

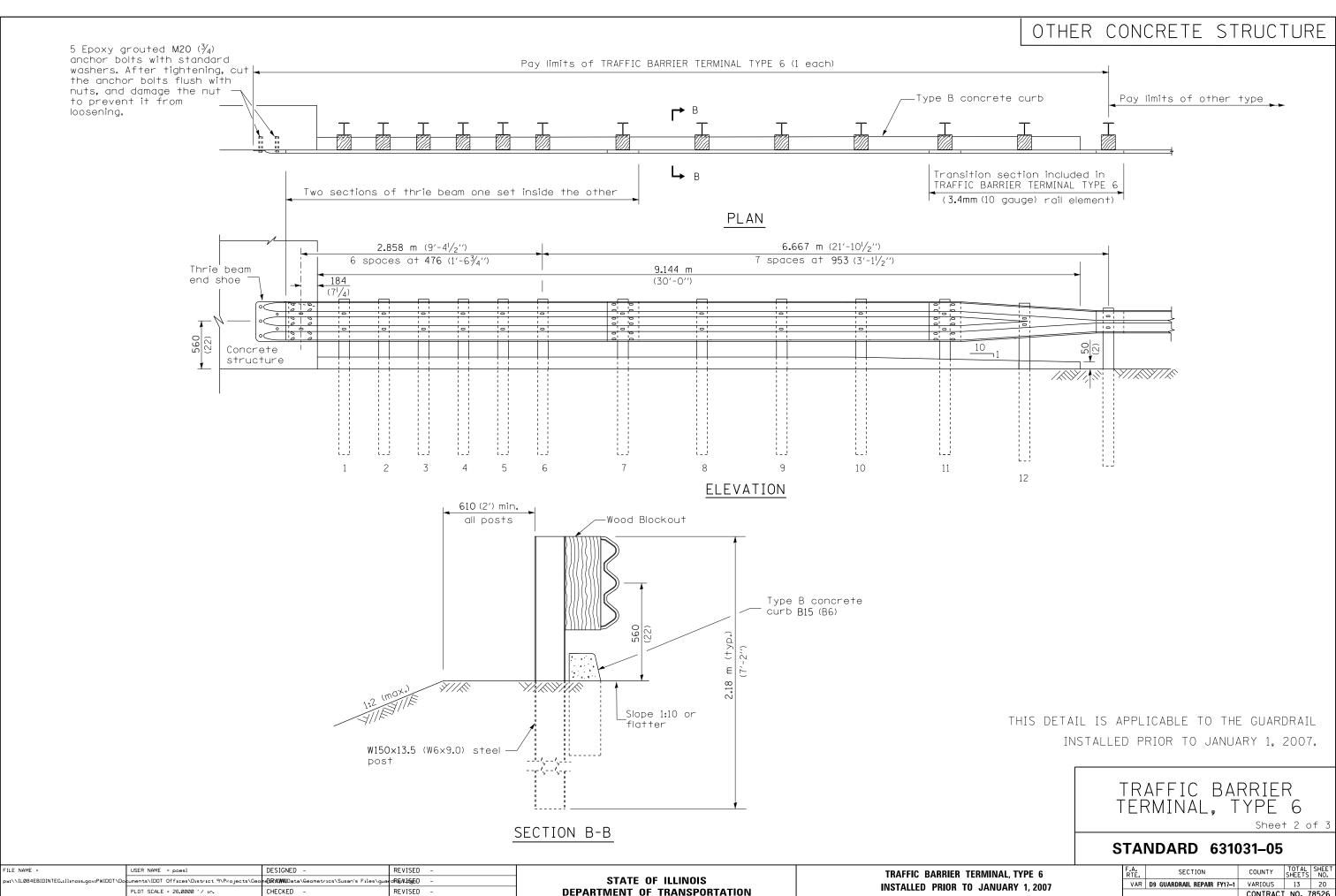
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Note:

of the guardrail.



e guardrail	TRAFFIC BARRIER TERMINAL, TYPE 6 Sheet 1 of	3
ARY 1, 2007.	STANDARD 631031–05	
1INAL, TYPE 6	F.A. SECTION COUNTY TOTAL SHE RTE. SECTION COUNTY SHEETS NO	
ANUARY 1, 2007	VAR D9 GUARDRAIL REPAIR FY17-1 VARIOUS 12 20	_
	CONTRACT NO. 7852	6



Default

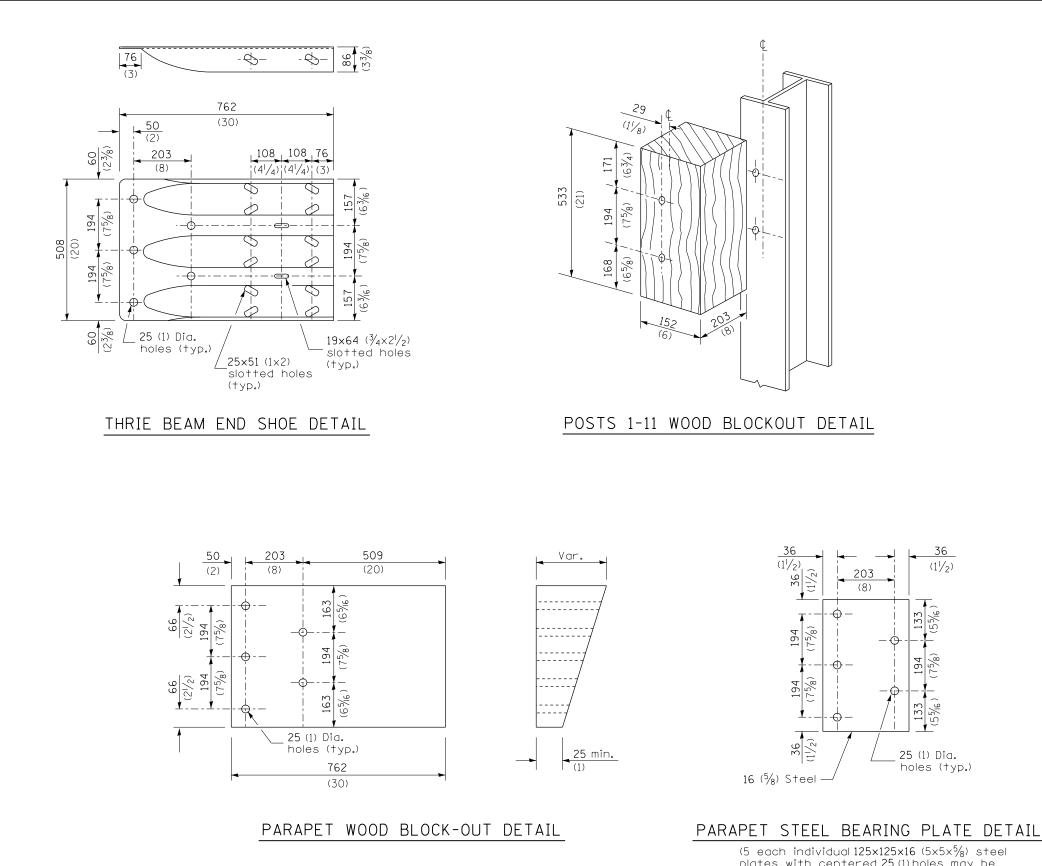
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	TRAFFIC BARRIER TERMINAL, TYPE 6 Sheet 2 of 3 STANDARD 631031-05				
ERMINAL, TYPE 6	F.A. RTE.	SECTION	COUNTY TOTAL SHEET SHEETS NO.		
JANUARY 1, 2007		D9 GUARDRAIL REPAIR FY17-1	VARIOUS 13 20		
			CONTRACT NO. 78526		
TS STA. TO STA.			CONTINACT NO. TOJZO		



(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.

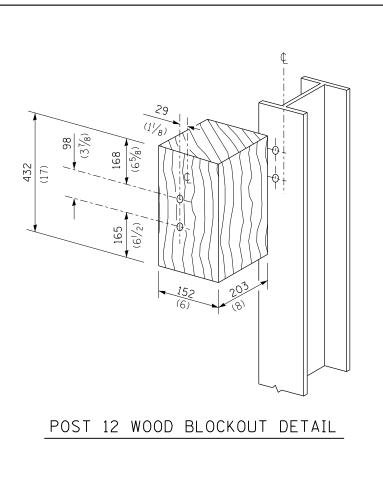
36

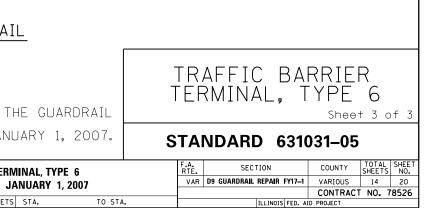
 $(1^{1}/2)$ 

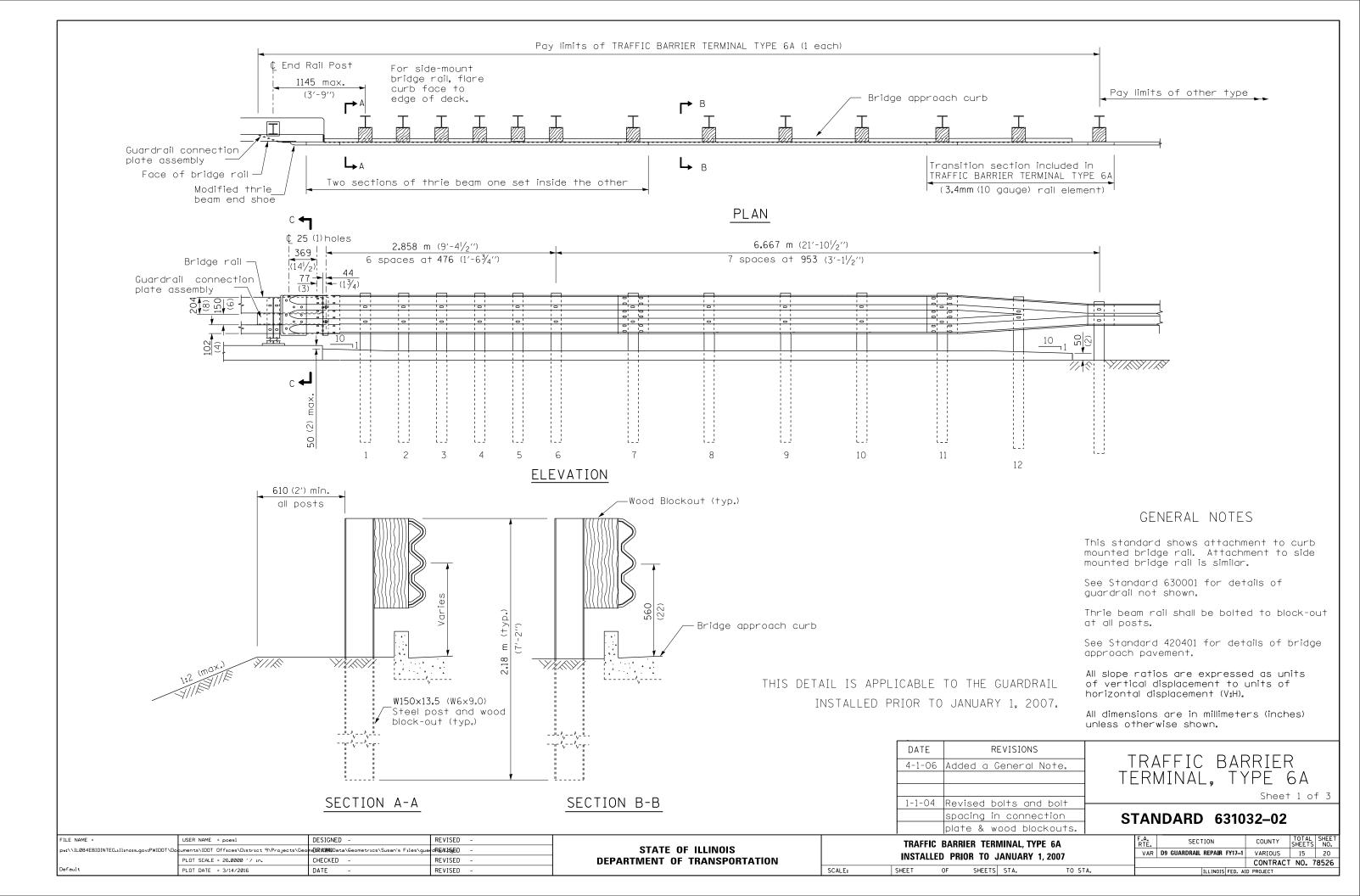
133 (55/6

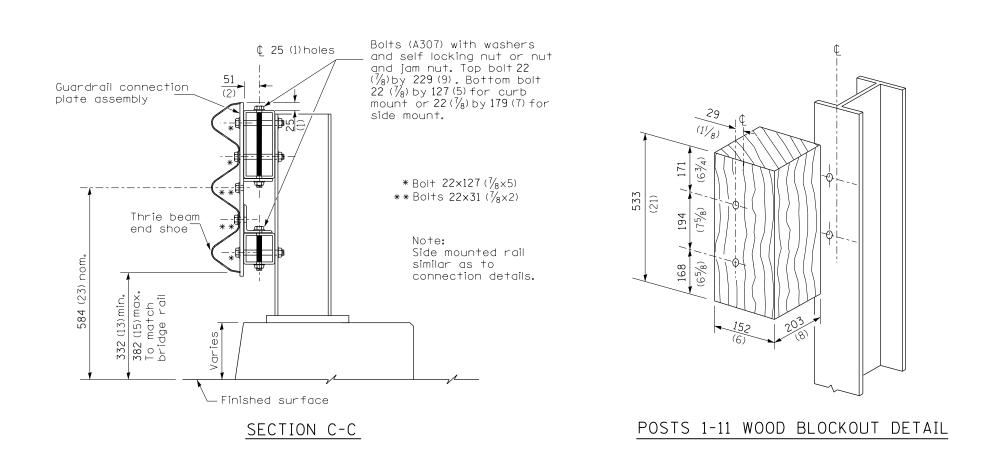
133 (5<sup>5</sup>/<sub>6</sub>

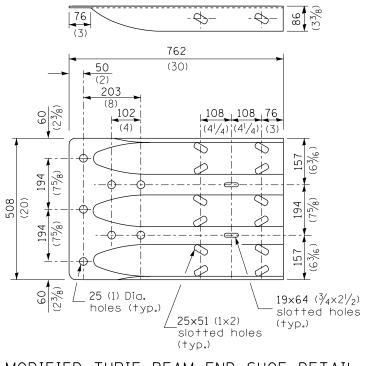
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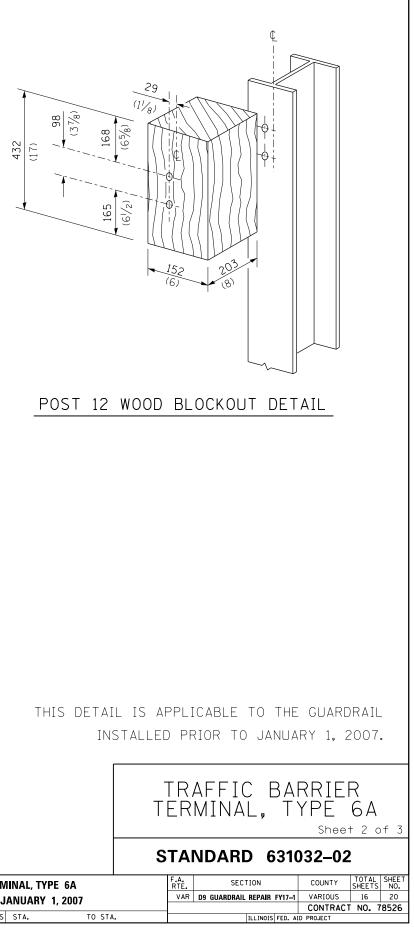


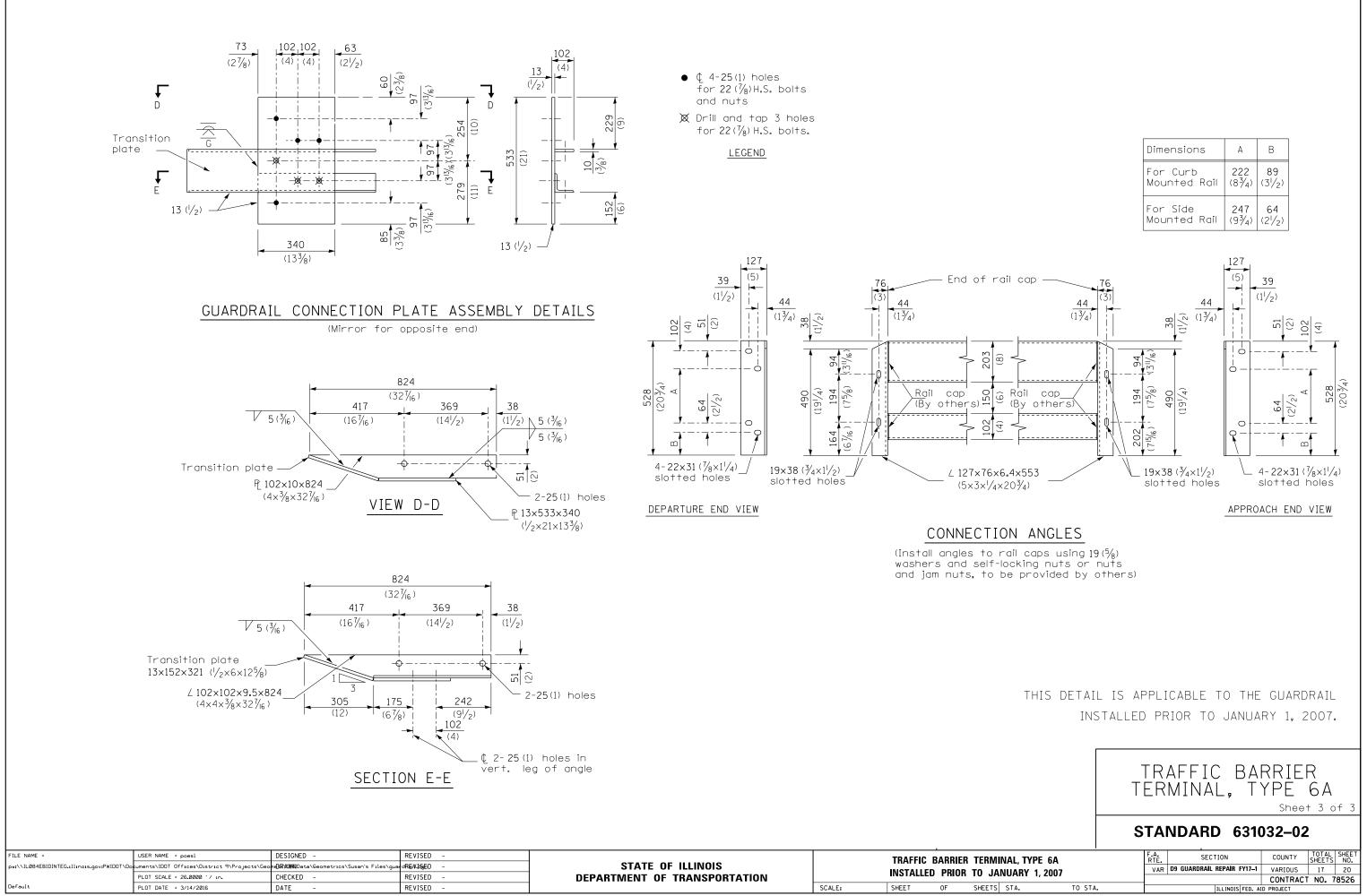




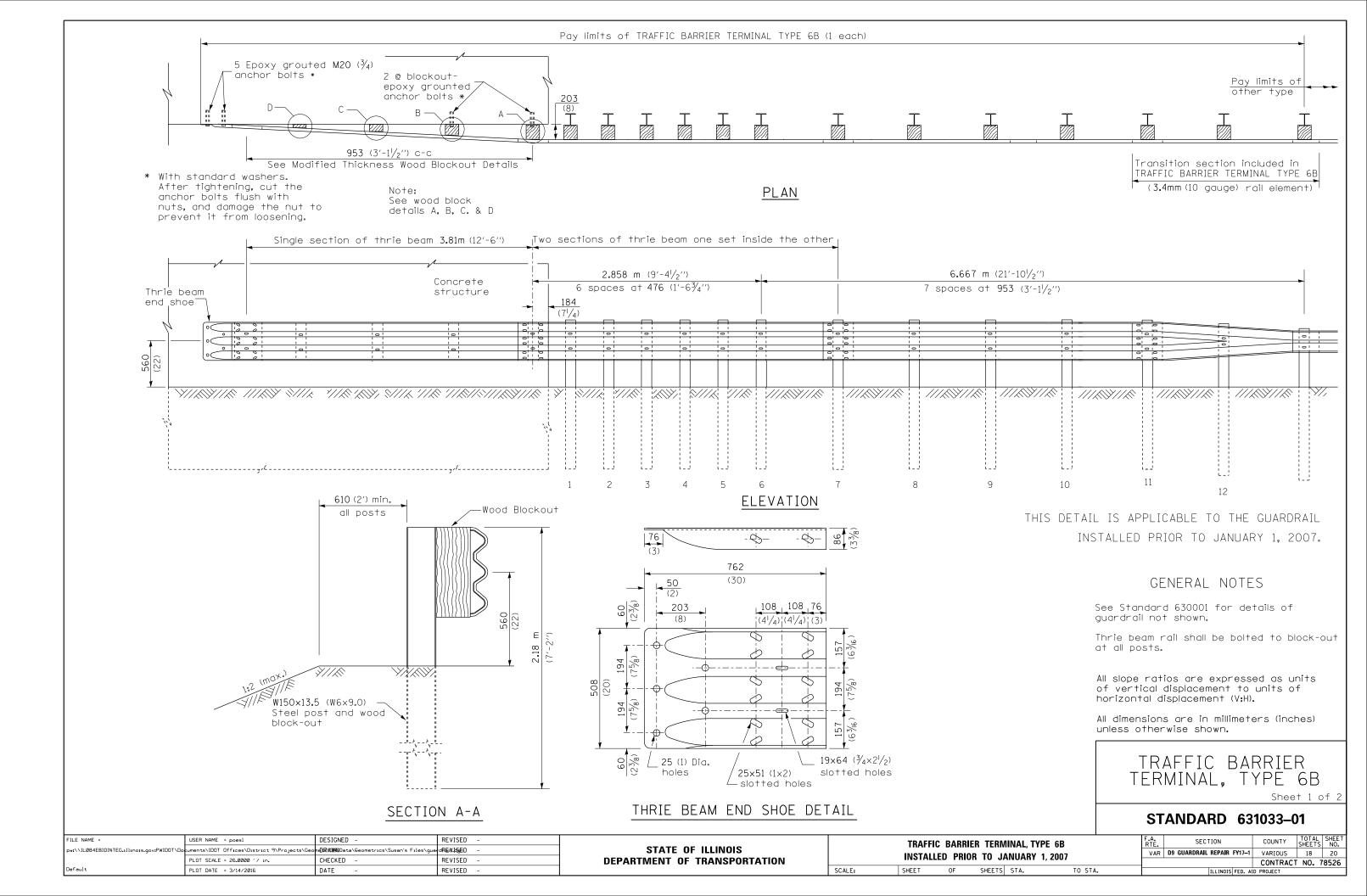
MODIFIED THRIE BEAM END SHOE DETAIL

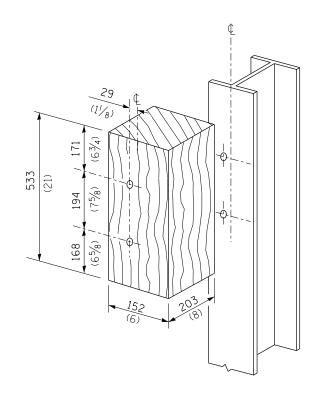
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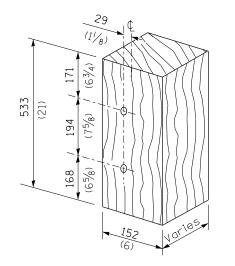


Dimensions	А	В
For Curb	222	89
Mounted Rail	(8¾)	(3 <sup> </sup> / <sub>2</sub> )
For Side	247	64
Mounted Rail	(9¾)	(2 <sup> </sup> / <sub>2</sub> )

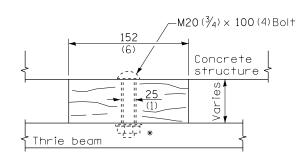






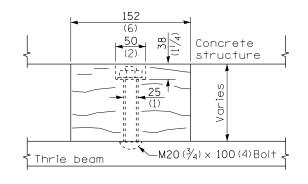


### MODIFIED THICKNESS WOOD BLOCKOUT DETAIL



### 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



THIS DETAIL IS APPLICABLE TO THE GUARDRAIL

INSTALLED PRIOR TO JANUARY 1, 2007.

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