04-26-13 LETTING ITEM 147

FOR INDEX OF SHEETS, SEE SHEET NO. 2 FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 3–7 STATE OF ILLINOIS

**DEPARTMENT OF TRANSPORTATION** 

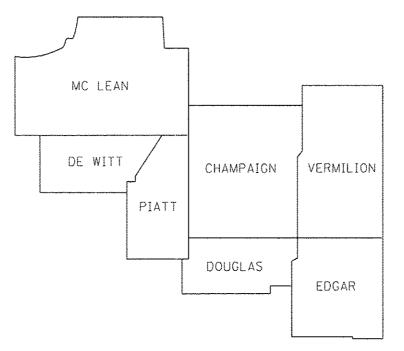
**DIVISION OF HIGHWAYS** 

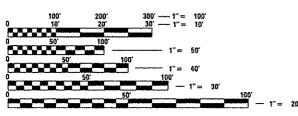
# PROPOSED HIGHWAY PLANS

VARIOUS ROUTES SECTION D5 GUARDRAIL & FENCE REPAIR-2013

> GUARDRAIL & FENCE REPAIRS VARIOUS COUNTIES

> > C-95-005-13





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

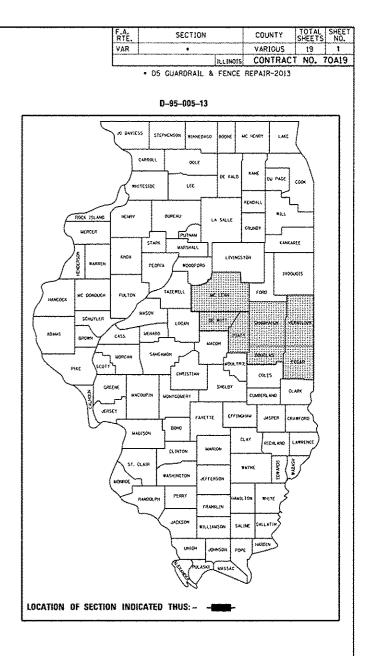
PROJECT ENGINEER JASON STULTS PHONE NUMBER: (217) 465–4181

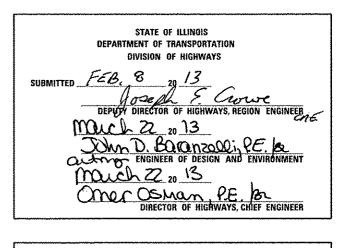
**CONTRACT NO. 70A19** 

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### PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

### **INDEX OF SHEETS**

SHEET NO. 1 2 2 3-7 8-19 DESCRIPTION COVER SHEET INDEX OF SHEETS HIGHWAY STANDARDS GENERAL NOTES SUMMARY OF QUANTITIES PLAN DETAILS

## **GENERAL NOTES**

#### G. N. -100

ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

#### G. N. -100A

ELECTRONIC FILES AND/OR ELECTRONIC SURVEY INFORMATION INCLUDING CADD FILES WILL NOT BE AVAILABLE TO THE CONTRACTOR.

#### G.N.-631

IF THE CONTRACTOR ELECTS TO USE THE ALTERNATE MOUNTING METHOD OF THRU DRILLING THE MOUNTING HOLES FOR THE TRAFFIC BARRIER TERMINALS, TYPE 6, THE HOLES SHALL BE DRILLED USING A CORE DRILL. A HAMMER DRILL WILL NOT BE ALLOWED.

NO COMMITMENTS

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	STANDARD NUMBER
	000001-06
	001006
	630001-10
	630101-09
	630106-01
	630201-06
· .	630301-06
	631011-09
	631026-05
	631031-11
	631032-08
	631033-04
- 1	631046-04
	635006-03
-	635011-02
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	665001-02
	701001-02
· · ·	701006-04
	701101-03
	701106-02
1 A A L	701201-04
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	701301-04
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	701411-08
	701421-05
	701422-05
	701456-02
-	701501-06
	701502-05
- 1	701601-08
	701602-06
	701606-08
	701701-08
	701901-02
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# **HIGHWAY STANDARDS**

#### NAME OF STANDARD

STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS DECIMAL OF AN INCH AND OF A FOOT STEEL PLATE BEAM GUARDRAIL GUARDRAIL MOUNTED ON EXISTING CULVERTS LONG-SPAN GUARDRAIL OVER CULVERT PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL SHOUDLER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS TRAFFIC BARRIER TERMINAL, TYPE 2 TRAFFIC BARRIER TERMINAL, TYPE 5 TRAFFIC BARRIER TERMINAL, TYPE 6 TRAFFIC BARRIER TERMINAL, TYPE 6A TRAFFIC BARRIER TERMINAL, TYPE 68 TRAFFIC BARRIER TERMINAL, TYPE 10 REFLECTOR AND TERMINAL MARKER PLACEMENT REFLECTOR MARKER AND MOUNTING DETAILS CHAIN LINK FENCE WOVEN WIRE FENCE OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 M) AWAY OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 M) AWAY LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS 2 45 MPH LANE CLOSURE, 2L, 2W, NIGHT ONLY, FOR SPEEDS ≥ 45 MPH LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY LANE CLOSURE, FREEWAY/EXPRESSWAY LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS 2 45 MPH LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS > 45 MPH TO 55 MPH LANE CLOSURE, MULTILANE, FOR SPEEDS ≥ 45 MPH TO 55 MPH PARTIAL EXIT RAMP CLOSURE FREEWAY/EXPRESSWAY URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN URBAN LANE CLOSURE, MULTILANE INTERSECTION TRAFFIC CONTROL DEVICES +D5 GUARDRAIL & FENCE REPAIR-2013 TOTAL SHEE SHEETS NO. SECTION COUNTY STANDARDS RTE. VAR. VARIOUS 19 2 ΈS CONTRACT NO. 70A19 TO STA. ILLINOIS FED. AND PROJECT

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### SUMMARY OF QUANTITIES

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	USER NAME : cearlocked	DESIGNED -					ָט וּד	J. U
	u 63100169	TRAFFIC BARRIER TERMINAL	. TYPE 1 (SPECIAL) FLAR	FD		EACH	4.0	3.0
	63100167	TRAFFIC BARRIER TERMINAL	, TYPE 1 (SPECIAL) TANG	ENT		EACH	4.0	3.0
	63100115	TRAFFIC BARRIER TERMINAL	, TYPE 12			EACH	1.0	1.0
	63100105	TRAFFIC BARRIER TERMINAL	, TYPE 10			EACH	1.0	1.0
	63100101	TRAFFIC BARRIER TERMINAL	. TYPE 9			EACH	1.0	1.0
	63100095	TRAFFIC BARRIER TERMINAL	, TYPE 8	· .		EACH	1.0	1.0
	63100089	TRAFFIC BARRIER TERMINAL	, TYPE 68			EACH	1.0	1.0
	63100087	TRAFFIC BARRIER TERMINAL	, TYPE 6A			EACH	1.0	1.0
	63100085	TRAFFIC BARRIER TERMINAL	, TYPE 6	-		EACH	2.0	1.0
	63100070	TRAFFIC BARRIER TERMINAL	. TYPE 5			EACH	1.0	1.0
	001000.0	TOPUTION DOMINICAL LENGTHAL	• · · · · · · ·			LAUN	2. U	1. U
	63100045	TRAFFIC BARRIER TERMINAL	TYPE 2	• •		EACH	2.0	1.0
	0100010	LONG-SPAN GUARDRAIL OVER	UULVERI, ZO FI OFAN			FOOT	175.0	175.0
	63000370	LONG-SPAN GUARDRAIL OVER	CHIVERT DE ET COAN			EOOT	175 0	175 0
	63000003	STEEL PLATE BEAM GUARDRA	IL, ITPE A, 9 FOOI POST	5		FOOT	25.0	25.0
	6300001	STEEL PLATE BEAM GUARDRA	IL, TYPE A, 6 FOOT POST	S .		FOOT	200.0	170.0
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	14 X0325260	REPAIR POSTS (BRIFEN)	EACH		0.0 3.0	3.0	4.0	
•			6 Mott		· · ·	x • V.		
, **	X0325258	REPAIR HIGH TENSION CABLE SYSTEM END SECTION (BRIFEN)	EACH		1.0	1.0		
			FUUT		20.0	20.0	10.0	
	X0325256	REPAIR HIGH TENSION CABLE (BRIFEN)	FOOT	e.	0.0 20.0	20.0	. <u>to o</u>	ಧ್ಯ
	10201000	TENNAL WAITER - DIRECT AFFLIED	EACH	2	0.0 17.0	3. 0		
	78201000	TERMINAL MARKER - DIRECT APPLIED	CADIA	ຸ ງ	0.0 17.0	3 0	at an e	
	10200410	GUARDRAIL MARKERS, TYPE A	EACH	. 2	0.0 17.0	3.0		
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	66501200	WOVEN WIRE GATES, 4' X 8' DOUBLE	EACH		1.0	1.0		
	66501000	WOVEN WIRE CATES ALL PLOODER		· .		•		
	66500105	WOVEN WIRE FENCE, 4'	FOOT	6,00	0.0 3,000.0	3,000.0		
	66600105	WOVEN WIDE FENCE AL						
	66400305	CHAIN LINK FENCE, 6'	FOOT	10	0.0 50.0	50.0		
	66400305	CHAIN LINK FENCE CL						
	66400105	CHAIN LINK FENCE, 4'	FOOT	40	0.0 200.0	200.0		
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	64300370	IMPACT ATTENUATORS (FULLY REDIRECTIVE, WIDE), TEST LEVEL	3 EACH		1.0 1.0			
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	64300350	IMPACT ATTENUATORS (FULLY REDIRECTIVE, WIDE), TEST LEVEL	2 EACH		1.0 1.0			
	たようへんうこう							
	64300260	IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVE	L 3 EACH		1.0 1.0			
					· · ·			
	64300240	IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVE	EL 2 EACH		1.0 1.0			
	63400105	GUARD POSTS	EACH	1	0.0 10.0			
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•	<i>₩</i> 20053220	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 68		EACH	1.0	1.0			
	Z0053210	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 6A		EACH	1.0	1.0			
	20053200	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 6		EACH	2.0	1.0	1.0		
	Z0053000	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 5		EACH	1.0	1.0			
	30003000			<b>6</b> ,60		• •			
	20052900	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 4		EACH	1.0		1.0		
							• •		
	Z0052600	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 2		EACH	2.0	1.0	1.0		
			·	<b>-</b>			• •		
	Z0052415	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL (FLARE	. · · · (U	EACH	5.0	3.0	2.0	14 - 14 - 14 - 14 - 14 - 14 - 14 - 14 -	
			·						
	Z0052410	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL (TANGE	NT)	EACH	5.0	3.0	2.0		
					· . ·				
n an	Z0052200	REPAIR STEEL PLATE BEAM GUARDRAIL, TYPE C		FOOT	25.0	25.0			· · ·
	Z0052100	REPAIR STEEL PLATE BEAM GUARDRAIL, TYPE B		FOOT	37.5	37.5			
				andra and Angla angla angla angla Angla angla ang					
	Z0052000	REPAIR STEEL PLATE BEAM GUARDRAIL, TYPE A		FOOT	2,000.0	1,700,0	300.0	·	
					• • • • •				
	Z0020210	PULL POST ARRANGEMENT		EACH	30.0	20.0	10.0	· .	
				5100	70.0	22.2			
	20012752	CONCRETE STRUCTURE REPAIR		CU FT	24.0	20.0	4.0		
	Z0008760	EMERGENCY WORK CALL OUT		EACH	20.0	17.0	3.0		
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### SUMMARY OF QUANTITIES

LOCATION OF WORK:

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Z0053	3400 REPAIR TRAFFIC BARRIER TERMINAL, TYPE 8	EACH	1.0	1.0
			· .	
Z0053	3500 REPAIR TRAFFIC BARRIER TERMINAL, TYPE 9	EACH	1.0	1.0
Z0053	3575 REPAIR TRAFFIC BARRIER TERMINAL, TYPE 12	EACH	1.0	1.0
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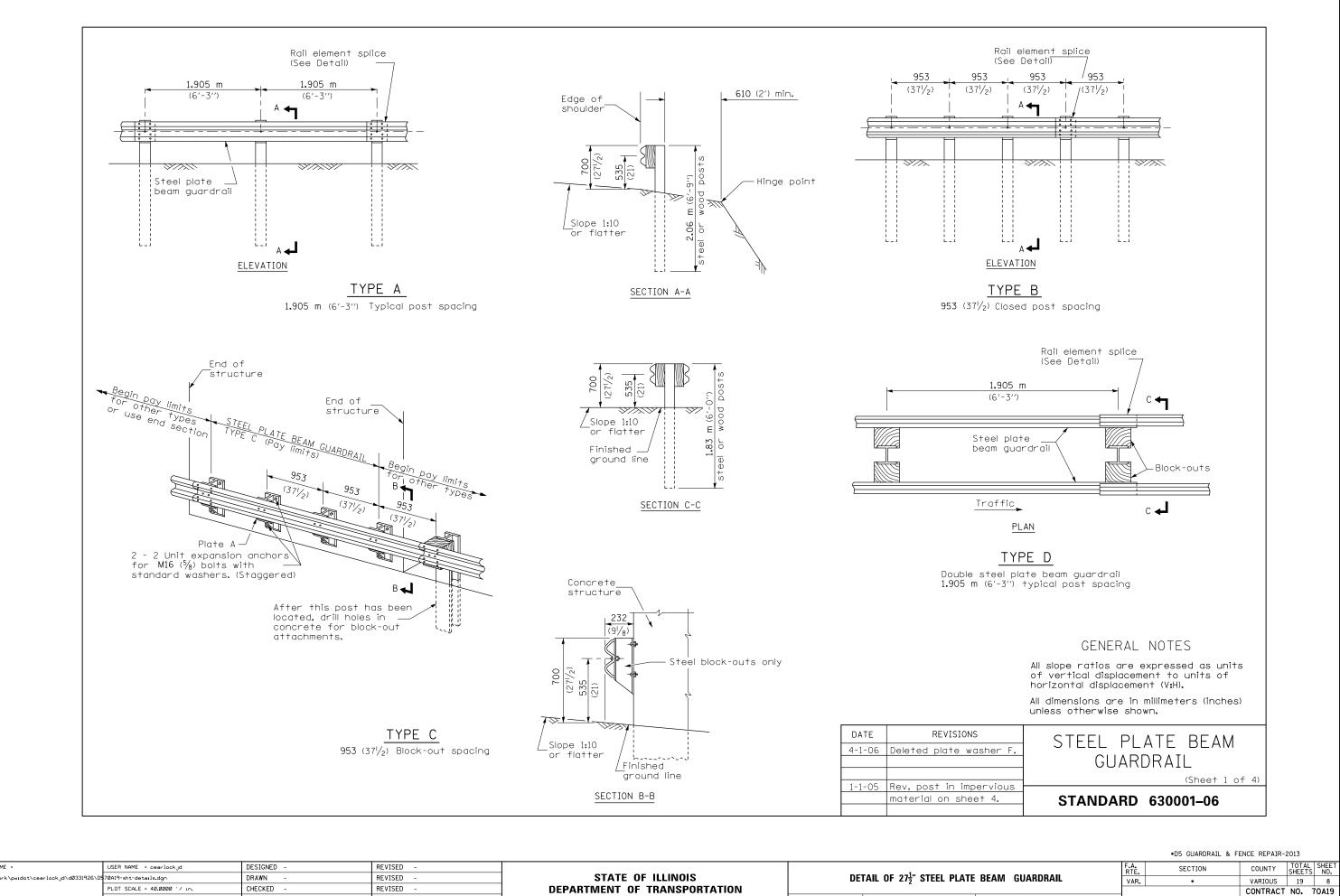
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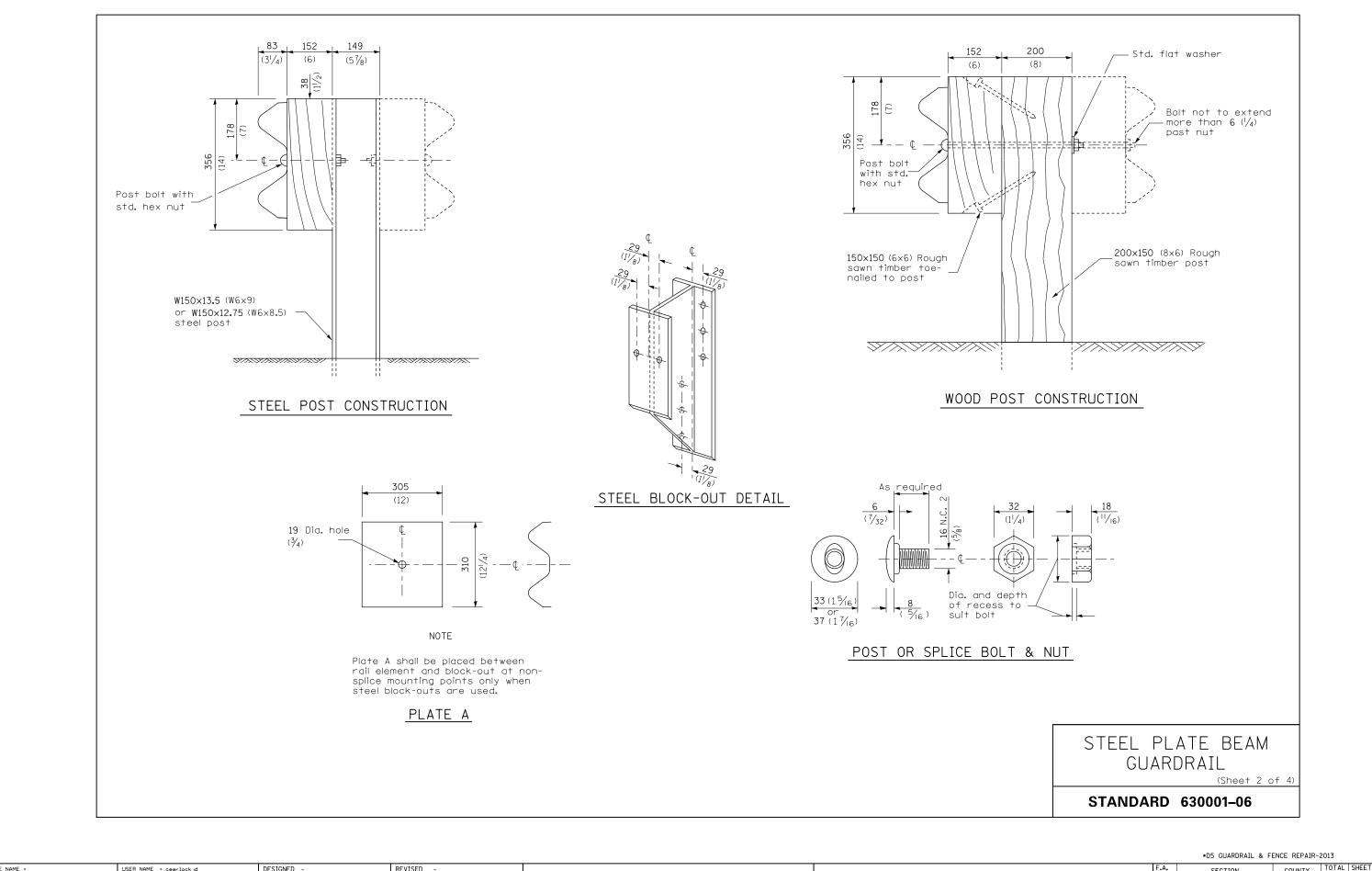
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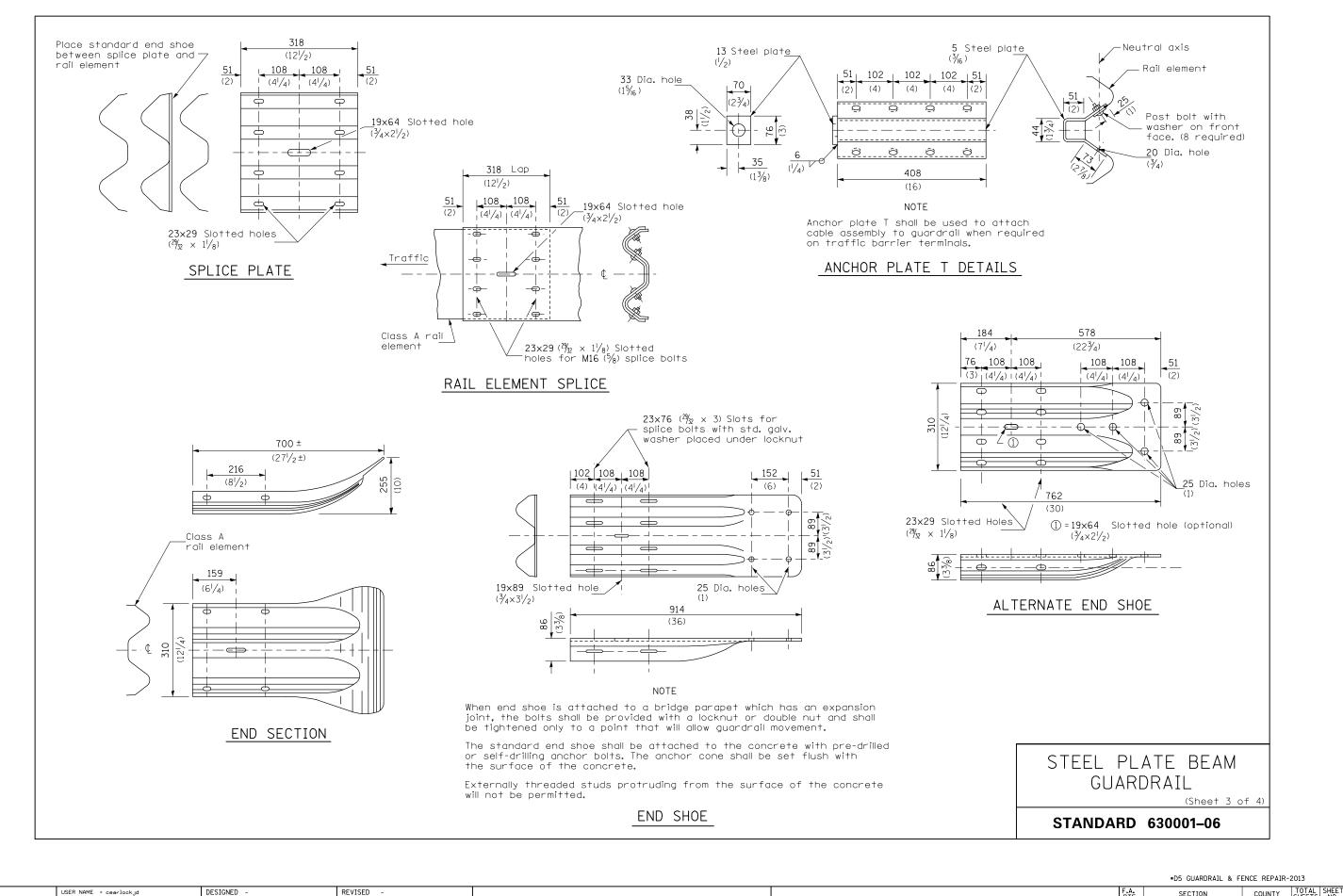
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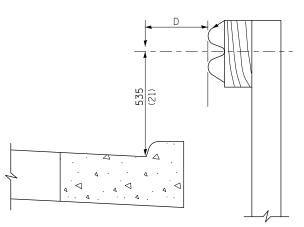
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e beam		GUARDRAIL	RTE.	SECTION	COUNTY	SHEETS	NO.
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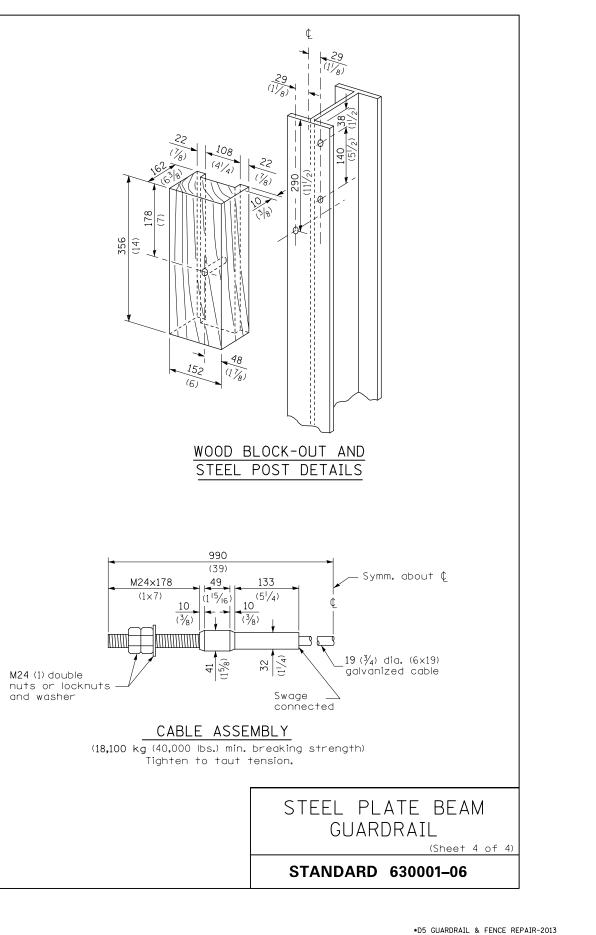
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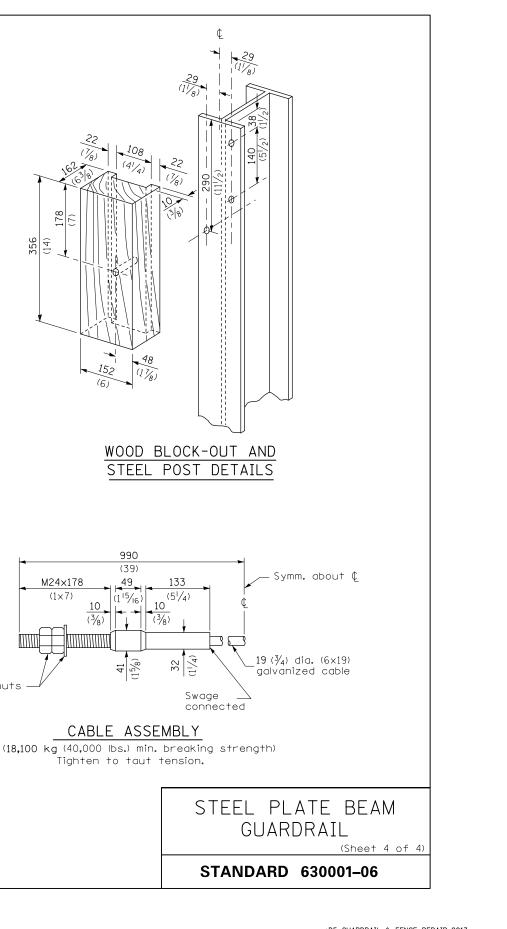
If it is necessary for D to be more than 300 (12) and less than 3.0 m (10'-0'') type M-5 (M-2) curb and gutter (Std. 606001) shall be used in front of and in advance of the guardrail.



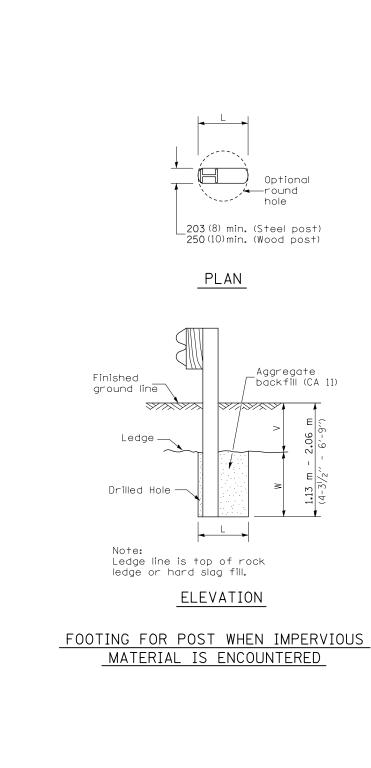
(D = 0 desirable to 300 (12) maximum)

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)			
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(>41.5 - 53.5)	(12 - 0)	(8)	(10)			

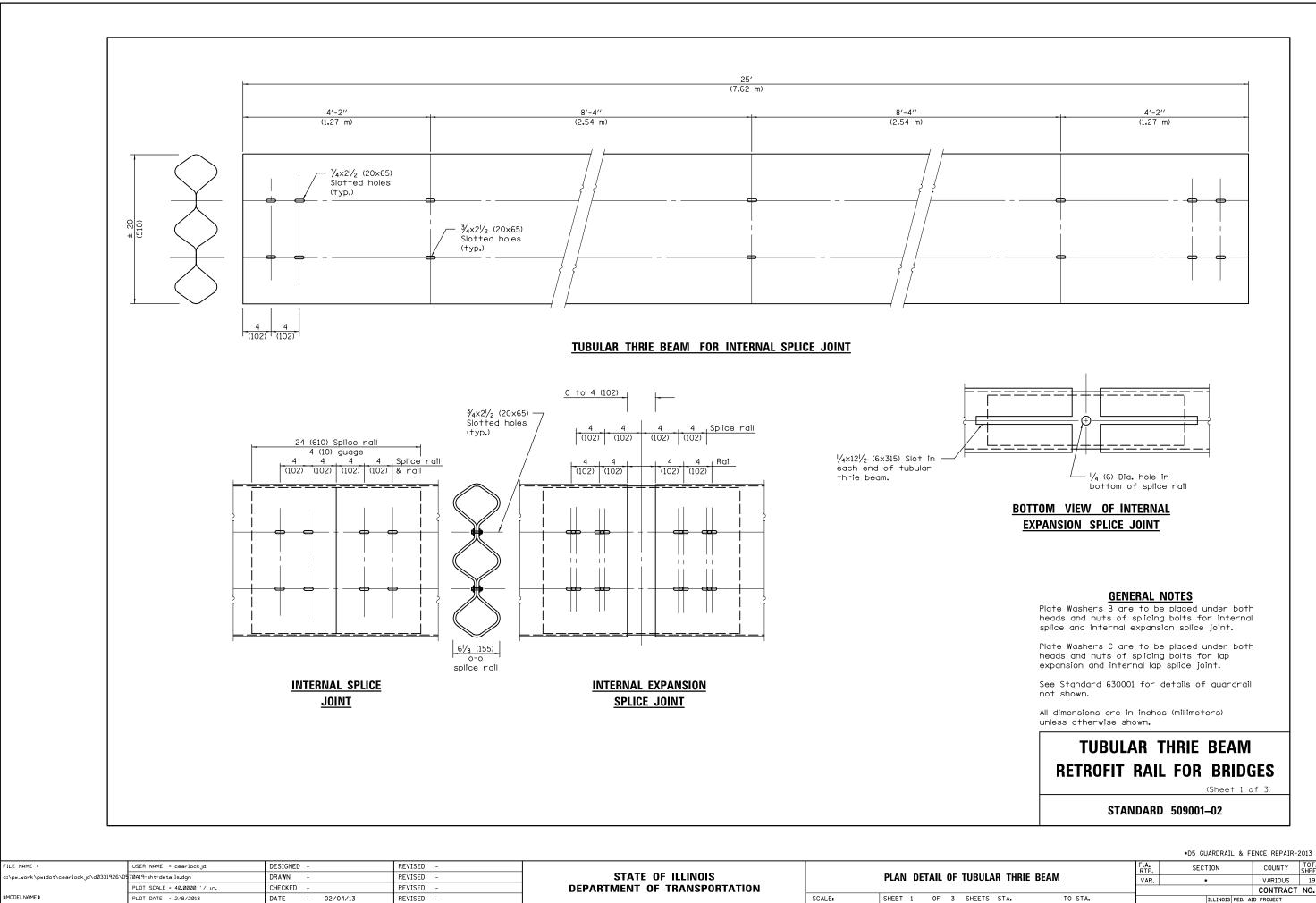




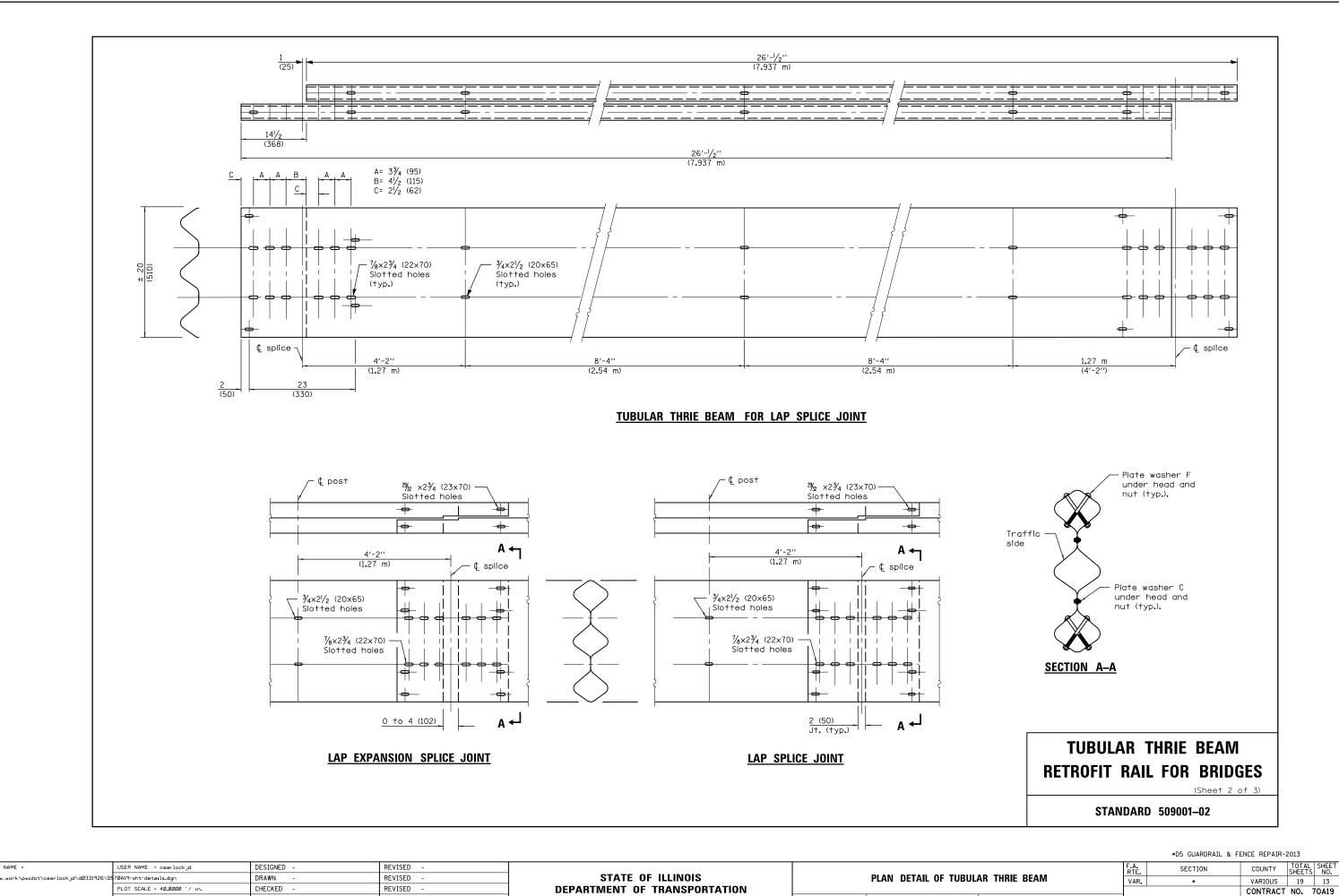
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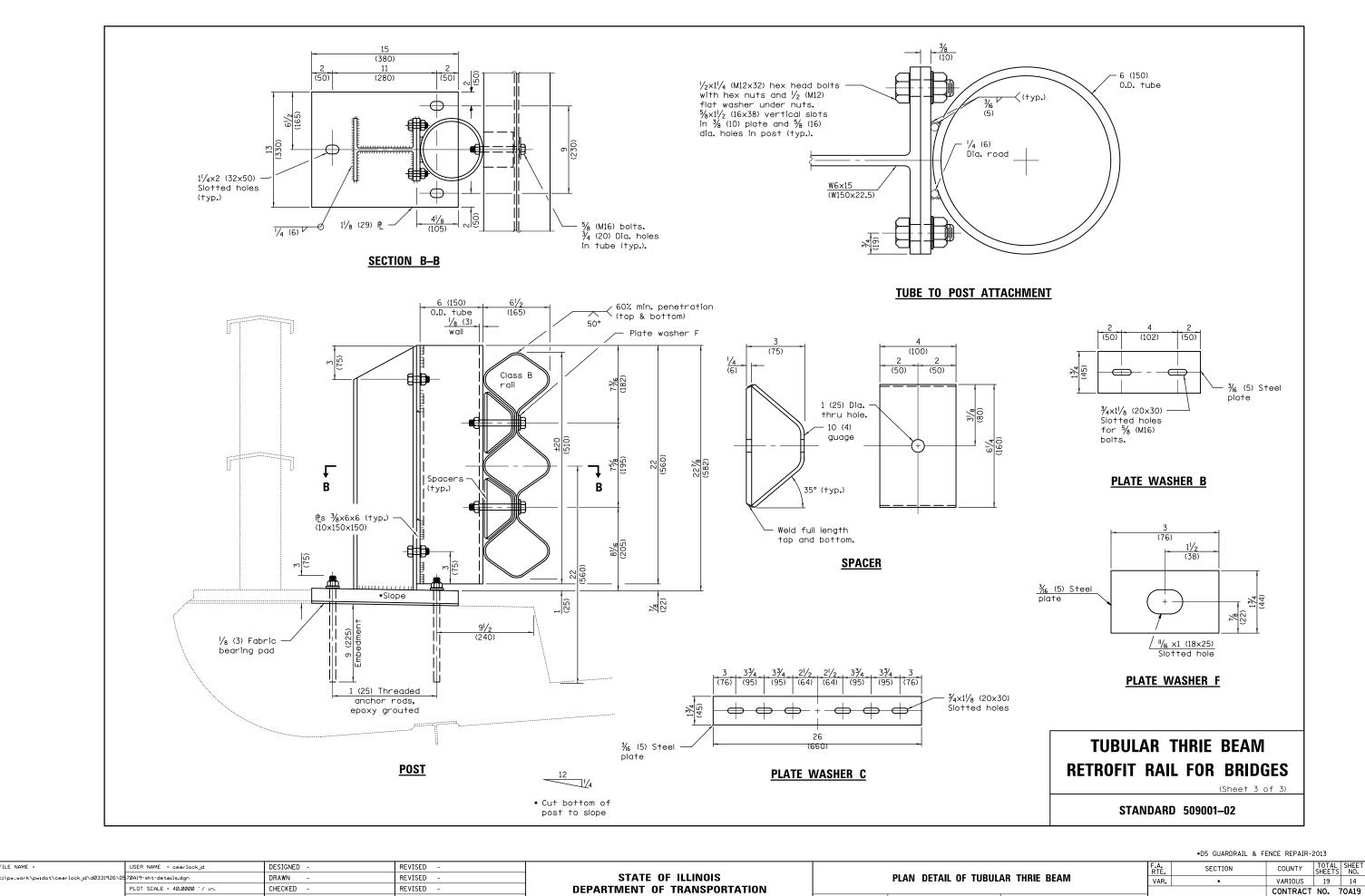
LAR THRIE BEAM		F.A. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
		VAR.	*		VARIOUS	19	12	
_			_			CONTRACT	NO. 1	70A19
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FILE NAME = c:\pw\_work\pwidot\cearlockjd\d0331926\D570A19-sht-details.dgn PLOT SCALE = 40.0000 '/ in. CHECKED REVISED **DEPARTMENT OF TRANSPORTATION** \$MODELNAME\$ DATE - 02/04/13 REVISED SCALE: SHEET 2 OF 3 SHEET PLOT DATE = 2/8/2013

ΤS	STA.	TO STA.	

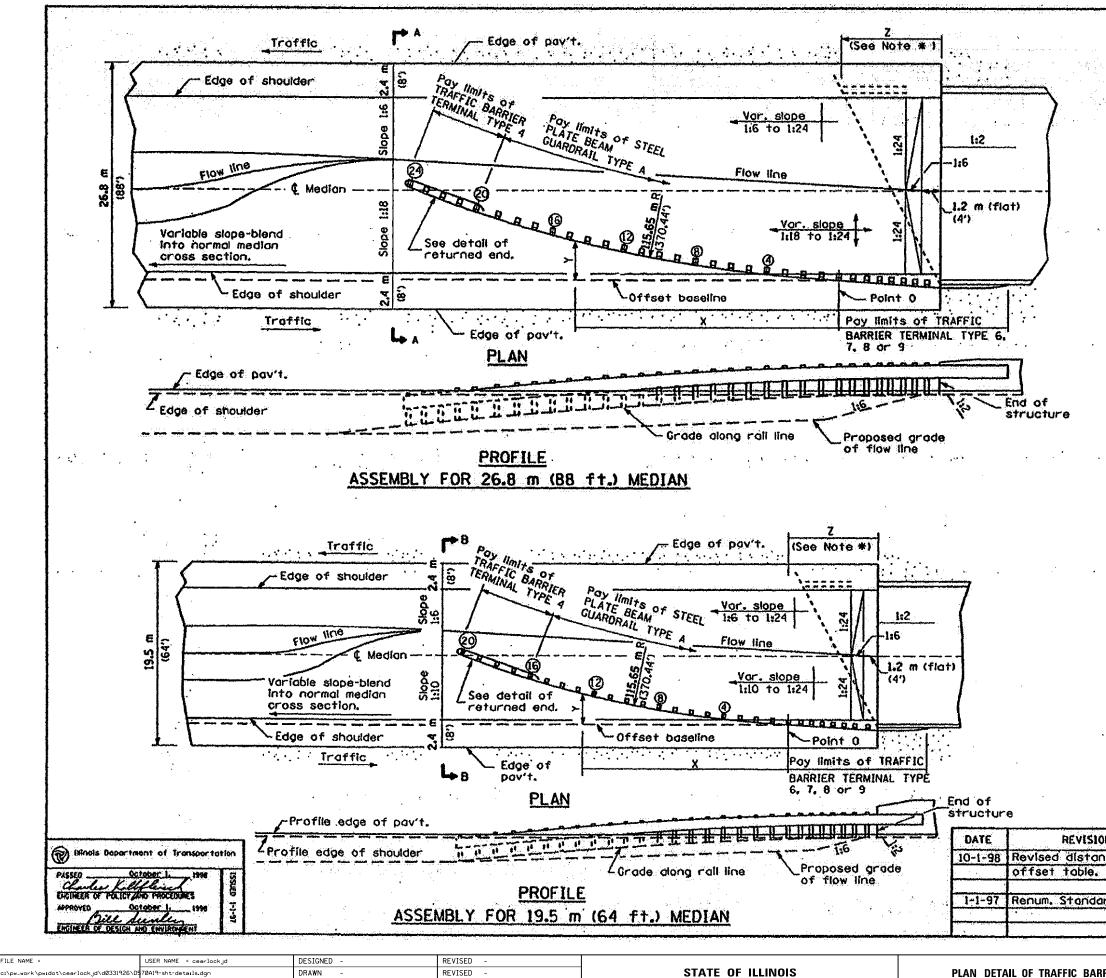
ILLINOIS FED. AID PROJECT



TO STA.

ILLINOIS FED. AID PROJECT

FILE NAME =	USER NAME = cearlockjd	DESIGNED -	REVISED -			
c:\pw_work\pwidot\cearlockjd\d0331926\D5	70A19-sht-details.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS		PLAN DETAIL OF TUBULAR THRI
	PLOT SCALE = 40.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		
\$MODELNAME\$	PLOT DATE = 2/8/2013	DATE - 02/04/13	REVISED -		SCALE:	SHEET 3 OF 3 SHEETS STA.



**DEPARTMENT OF TRANSPORTATION** 

SCALE:

LOT SCALE = 40.0000 '/ in.

PLOT DATE = 2/8/2013

MODELNAMES

CHECKED

02/04/13

DATE

REVISED

REVISED

OFFSE	TS TO FACI	E OF RAIL
POST	DISTANCE m X (ft.)	OFFSET m Y (ft.)
POINT	0 (0)	0 (0)
(4)	7.60 (24,93)	0.56 (1.83)
(8)	15.14 (49.68)	1.60 (5.28)
(12)	22.60 (74.16)	3.16 (10.37)
<b>(6</b> )	<b>29.94</b> (98.23)	<b>5.20</b> (17,05)
20	37.13 (121.83)	7.71 (25.3)
24	44.14 (144.83)	10.70 (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 paint 0.

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

### GENERAL NOTES

See Standard 630001 for details of guardroll not shown,

\* For dual structures skewed right forward, the nase 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 guardrall and its offsets (Y) shall be calculated and used. All additional lengths of guardrall shall be in increments of 3.87 m (12'-6'').

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

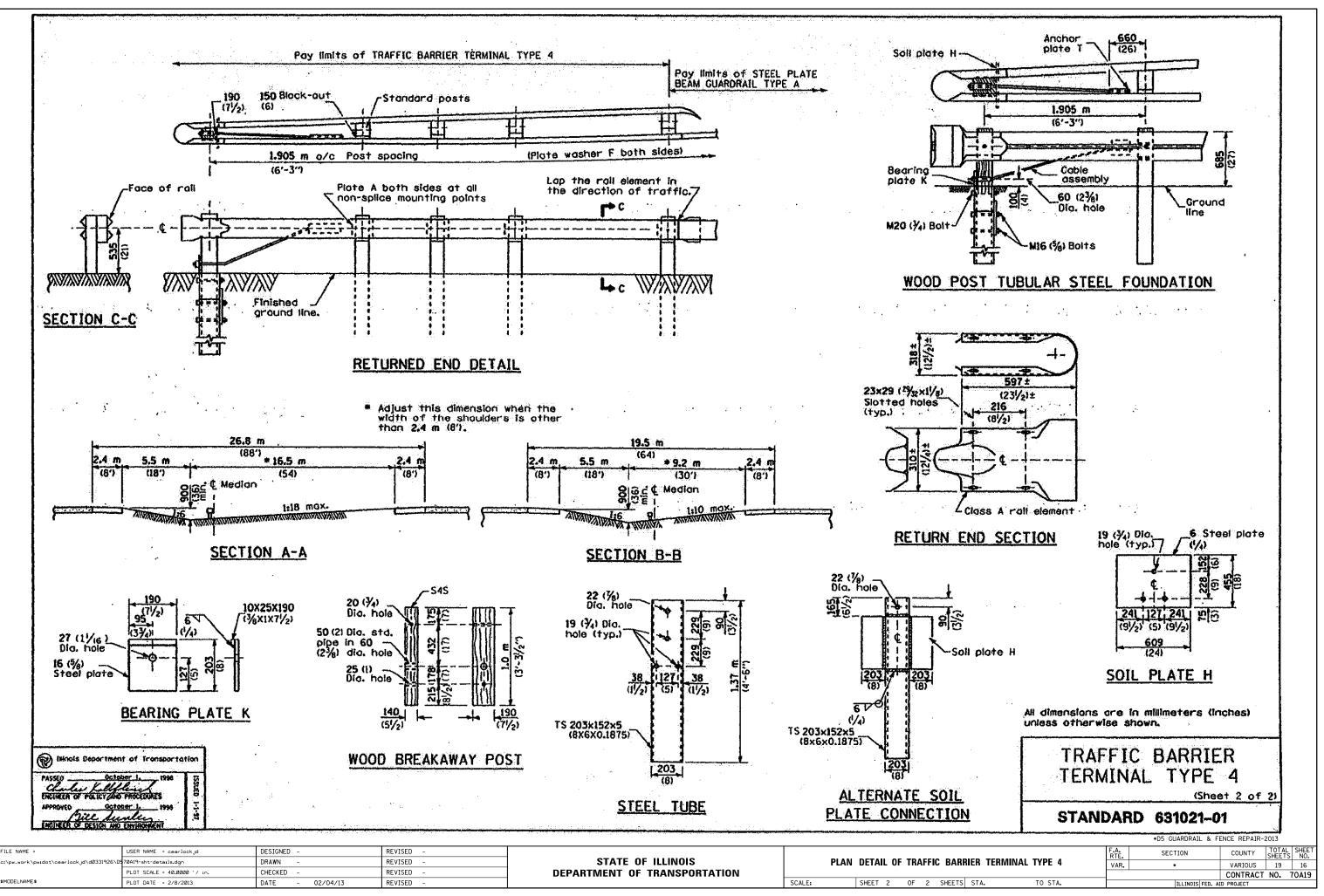
The bearing plate K shall be held in position by (2) two eight penny nails driven into the post and bent over the top of the plate.

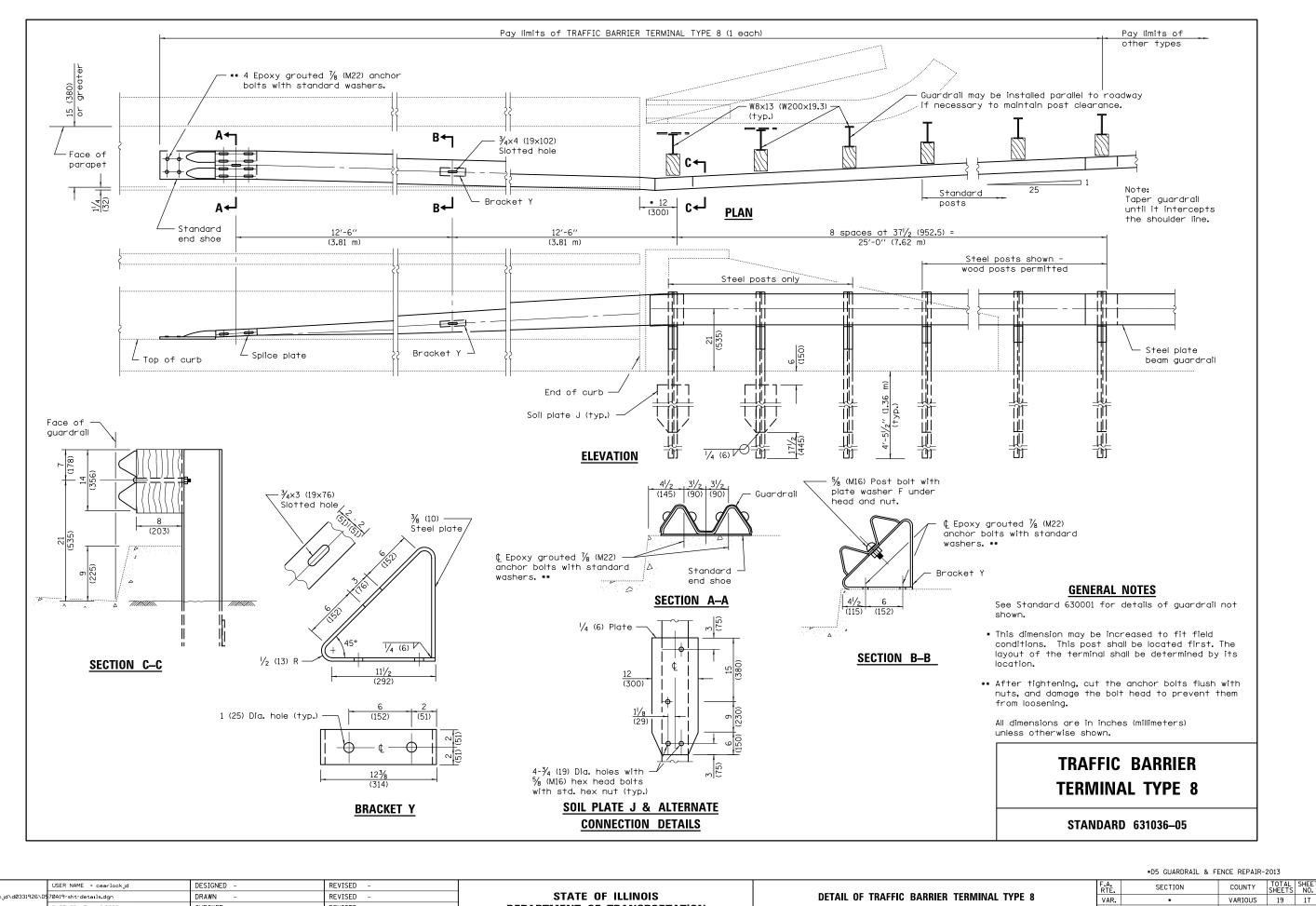
All slopes ore expressed as units of vertical displacement to units of horizontal displacement (V#D.

All dimensions ore in millimeters linches) unless otherwise shown.

TE	REVISIONS	TDA	EETA	BARRIE	D		
-98	Revised distance in		<				
	offset toble.	TERN	MINAL	TYPE	4		
-97	Renum. Standard 2339-4.			(Shee	et 1 of	2)	
		•	DARD	631021-0	1		
				*D5 GUARDRAIL & F		2013	
			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DETA	AIL OF TRAFFIC BARRIER TERMINA	L TYPE 4	VAR.	*	VARIOUS	19	15
			_		CONTRACT	NO. '	70A19
SHEET	T 1 OF 2 SHEETS STA.	TO STA.		ILLINOIS FED. A	D PROJECT		

		VAR.	•	VARIOUS	19	15	t.
				CONTRACT	NO.	70A19	l
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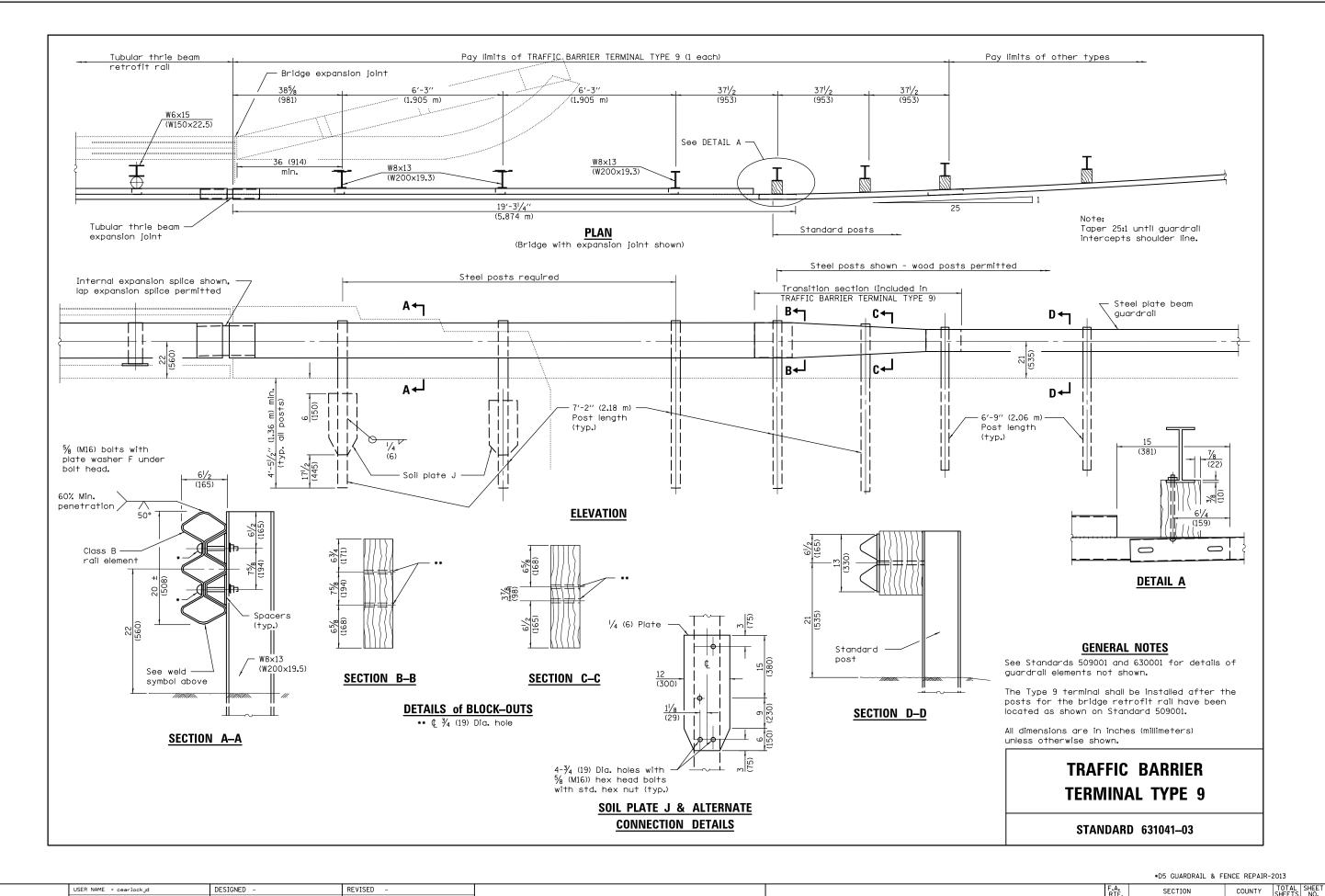
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ILLINOIS FED. AID PROJECT

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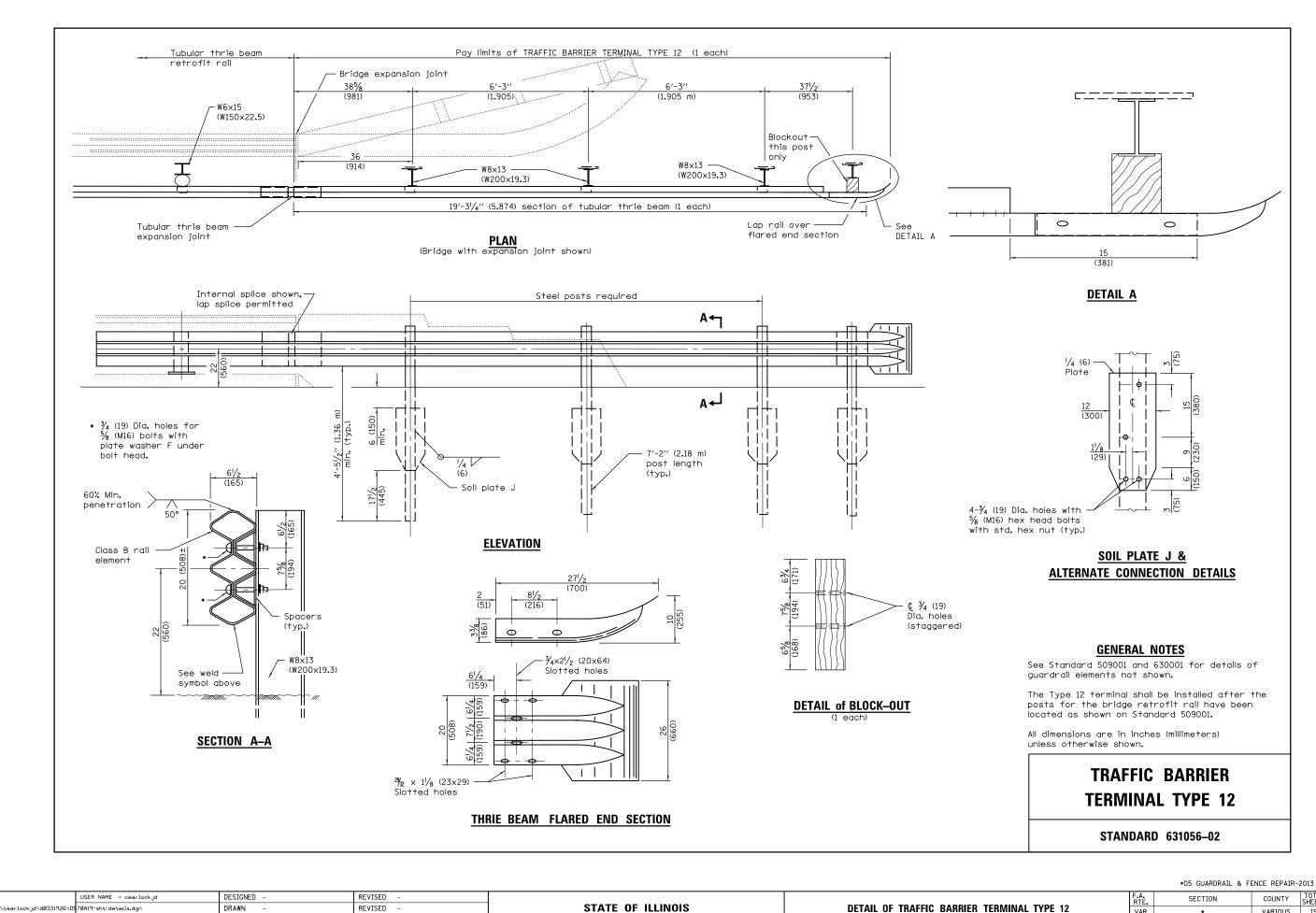
CONTRACT NO. 70A19

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	PLOT SCALE = 40.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	1				
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		RTE.	SECTION		COUNTY	SHEETS	NO.
ΕK	TERMINAL TYPE 9	VAR.	•		VARIOUS	19	18
					CONTRACT	NO	70A19
TS	STA. TO STA.		ILLINOIS	FED. AI	D PROJECT		



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	PLOT SCALE = 40.0000 ' / 10.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION			
\$MODELNAME\$	PLOT DATE = 2/8/2013	DATE - 02/04/13	REVISED -		SCALE:	SHEET 1 OF 1	1 SHEETS

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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.

		RTE.	SECTION		COUNTY	SHEETS	NO.
IER TERMINAL TYPE 12		VAR.	*		VARIOUS	19	19
					CONTRACT	NO. '	70A19
ETS	STA. TO STA.		ILLINOIS	FED. AI	D PROJECT		