INDEX OF SHEETS: 04-28-2017 LETTING ITEM 096 STATE OF ILLINOIS

VAR. D4 CUARDRAIL REPAIRS 2017-MCHD TAZEWELL ILLINOIS CONTRACT NO. 68032

COVER SHEET

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- **JOB SPECIFIC NOTES & COMMITMENTS** 2
- SUMMARY OF QUANTITIES
- SAMPLE WORK FORM
- **EXISTING V.A.T. SYSTEM**
- 9 PROPOSED C.A.T. SYSTEM
- **EXISTING TRAFFIC BARRIER, TERMINAL TYPE 3 & TYPE 3A**
- **EXISTING TYPE 4 TERMINAL**
- **EXISTING CABLE MEDIAN BARRIER (CABLE ROAD GUARD)**
- **EXISTING GIBRALTAR CABLE BARRIER DETAIL**
- 19-22 STEEL PLATE BEAM GUARDRAIL TYPE A. 6.75 FOOT POSTS
 - STANDARD 630011-D4
- 23 **EXISTING TRAFFIC BARRIER TERMINAL TYPE 8**
- 24 **EXISTING TRAFFIC BARRIER TERMINAL TYPE 9**
- EXISTING TUBULAR THRIE BEAM RETROFIT RAIL FOR BRIDGES

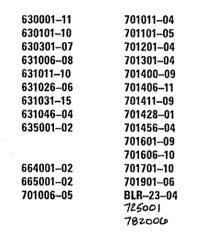
DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS**

PROPOSED HIGHWAY PLANS

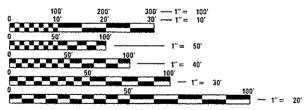
VARIOUS ROUTES SECTION D4 GUARDRAIL REPAIRS 2017-MCHD

CONTRACT MAINTANACE TAZEWELL COUNTY

C-94-075-16



HIGHWAY STANDARDS:

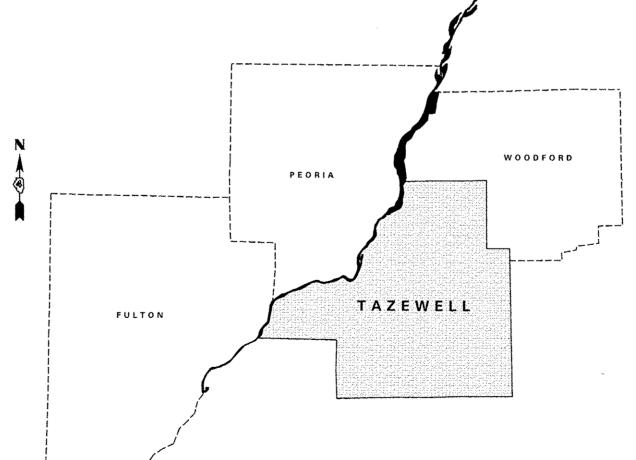


ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

PROJECT ENGINEER CHRIS MAUSHARD (309) 671-3453 PROJECT MANAGER RAYMOND SAMARA /SOBHI LABABIDI (309) 671-3459 CATALOG NO. 035416-00D

CONTRACT NO. 68D32

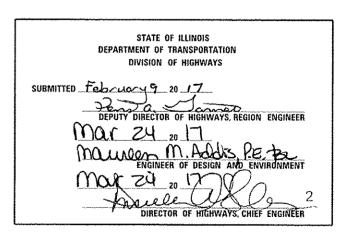


D-94-043-16



DESCRIPTION:

GUARDRAIL REPAIRS CAUSED BY MOTORISTS AT VARIOUS LOCATIONS THROUGHOUT TAZEWELL COUNTY



PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

COMMITMENTS

NO COMMITMENTS HAVE BEEN MADE FOR THIS PROJECT.

TRAFFIC BARRIER TERMINAL. TYPE 1 SPECIAL:

ANY TYPE 1, 1A, OR 1B TERMINAL REQUIRING REPLACEMENT UNDER THIS CONTRACT SHALL BE REPLACED BY A TYPE 1 (SPECIAL) TERMINAL AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER FORTY-EIGHT (48) HOURS PRIOR TO PERFORMING WORK.

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0468032-CA00.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS		JOB SPE	ECIFIC N	OTES &	COMMITME	NTS	VAR D4 C	AJARORAIL REPAIRS 2017-MCHO	TAZEWELL	27 2
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63000001 STEEL 63000003 STEEL 63100045 TRAFF 63100085 TRAFF	EL PLATE BEAM GUARD RAIL. TYPE A, 6 FOOT POSTS EL PLATE BEAM GUARD RAIL, TYPE A, 9 FOOT POSTS	FOOT	TOTAL QUANTITY 50	100 % STATE	100 % STATEL	100 % STATE &
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63000003 STEEL 63100045 TRAFF 63100085 TRAFF	EL PLATE BEAM GUARD RAIL, TYPE A, 9 FOOT POSTS			50		· · · · · · · · · · · · · · · · · · ·
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63100045 TRAFF 63100070 TRAFF 63100085 TRAFF		FOOT	50			
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63100085 TRAFF		EACH	6	4	2	***************************************
63100085 TRAFF	FFIC BARRIER TERMINAL. TYPE 5	EACH	6	4	2	
63100095 TRAFF	7.0 58.03.2.3 7.2.03.2.0					
	FFIC BARRIER TERMINAL, TYPE 6	EACH	4	3	1	
		and the same of th				
63100101 TRAFF	FFIC BARRIER TERMINAL. TYPE 8	EACH	6	4	2	
63100101 TRAFF						
	FFIC BARRIER TERMINAL, TYPE 9	EACH	6	4	2	
63100105 TRAFF	FFIC BARRIER TERMINAL, TYPE 10	EACH	6	4	2	
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63100115 TRAFF	FFIC BARRIER TERMINAL, TYPE 12	EACH	z	1	1	
63100167 TRAFF	FFIC BARRIER TERMINAL. TYPE 1 (SPECIAL) TANGENT	EACH	21	13	8	
				····		
63100169 TRAFF	FFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	5	4	1	
			-			
63400105 GUARE	RU POSTS	EACH	7-	5	2	Marie
64300260 IMPAG	ACT ATTENUATORS (FULLY REDIRECTIVE, NARROW). TEST LEVEL 3	EACH	2	l	1	

64300320 IMPAG	ACT ATTENUATORS (FULLY REDIRECTIVE, RESETTABLE), TEST LEVEL 3	EACH	1	1		
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			CONTRACT	NO. (68D32
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64300370	IMPACT ATTENUATORS (FULLY REDIRECTIVE. WIDE). TEST LEVEL 3	EACH	2	1	1	
0.10001.0		***				
C4700450	IMPACT ATTENUATORS (NON- REDIRECTIVE). TEST LEVEL 3	EACH	4	3	1	
64300430	IMPACS ASTENUATORS (NON- REDIRECTIVE), TEST LEVEL 3	EACH	-	J	1	
C 4 7 0 0 7 7 0	THORAT ATTRAULATORS (SCUEDE INCE MADROWN) TEST : EVEL X	EACH	3	2		
64300110	IMPACT ATTENUATORS (SEVERE USE, NARROW), TEST LEVEL 3	EACH	3	6	*	
66400105	CHAIN LINK FENCE. 4'	FOOT	7	5	2	
COLVUPAG	CHAIN EINA FENCE. 4	1 001	F		44.	
66400305	CHAIN LINK FENCE. 6'	FOOT	400	280	120	
	CHAIN LINK FENCE, 0					
66500105	WOVEN WIRE FENCE. 4'	FOOT	500	350	150	
		v.				
72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	40	28	12	
				Translation of the Control of the Co		
78200005	CUARDRAIL REFLECTORS. TYPE A	EACH	20	14	6	
				And design of the second of th		
X0301372	REPAIR/UPGRADE EXISTING VAT TO CAT	EACH	6	4	2	
X0325264	REPAIR IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW). TEST LEVEL 3	EACH	6	4	2	
X0325899	REPAIR HIGH TENSION CABLE (GIBRALTAR)	FOOT	800			800
x0325900	REPAIR HIGH TENSION BARRIER TERMINAL (GIBRALTAR)	EACH	2			2
X0325902	REMOVE AND REPLACE POSTS (GIBRALTAR)	EACH	80			80
X0325903	REPAIR CABLE ROAD GUARD, THREE STRANDS	FOOT	150			150
***************************************		1				Andrews Committee Committe

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				TAZEWELL	TAZEWELL	TAZEWELL
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X0327382	REPAIR HAIRPINS (GIBRALTAR)	EACH	100		The second secon	100
X0327383	REPAIR LOCK PLATES (GIBRALTAR)	EACH	100			100
V6300310	GUARDRAIL BLOCKS	EACH	200	140	60	4444
	GUARURATE DEUCKS		200	130		***************************************
X6300215	RAIL ELEMENT PLATES	EACH	64	48	16	4 and American Control of Control
X6300230	STEEL POSTS	EACH	100	70	30	
VC 770000	VERTICAL AR HISTAGAY OF CHARRENT	FOOT	400	280	120	
~ ve330300	VERTICAL ADJUSTMENT OF GUARDRAIL	1,001	100	200	120	
X6331101	TUBULAR THRIE BEAM	FOOT	200	140	60	
X6331110	STEEL POSTS, SPECIAL	EACH	6	4	2	
V5646500		FACIL	10			
X6540502	CHAIN LINK FENCE POST	EACH	L V	6	4	
X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	1		
Z0008760	EMERGENCY WORK CALL OUT	EACH	20	14	6	
70020310	PULL POST ARRANGEMENT	EACH	6	4	2	
40020210	FULL FUST ARRANGEMENT	CACH	9	7	-	
Z0051400	REMOVING AND RESETTING POSTS	EACH	100	70	30	
20052410	REPAIR TRAFFIC BARRIER TERMIAL, TYPE I SPECIAL (TANGENT)	EACH	26	20	6	
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70052415	REPAIR TRAFFIC BARRIER TERMIAL, TYPE 1 SPECIAL (FLARED)	EACH	5	2	3	
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Z0052600	REPAIR TRAFFIC BARRIER TERMINAL. TYPE 2	EACH	4	3	1	
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20052700	REPAIR TRAFFIC BARRIER TERMINAL. TYPE 3	EACH	4	7	****	
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Z0052900	REPAIR TRAFFIC BARRIER TERMINAL. TYPE 4	EACH	6	4	S	
		-		-		
Z0053100	REPAIR TRAFFIC BARRIER TERMINAL. TYPE 5A	EACH	6	4	2	
70053200	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	6	4	2	
20033200	REFAIR TRAFFIC DARRIER TERMINAL, TIPE D	EACH	7	T.	2	
Z0053400	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 8	EACH	6	4	2	
		-		The state of the s		
Z0053500	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 9	EACH	6	4	2	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

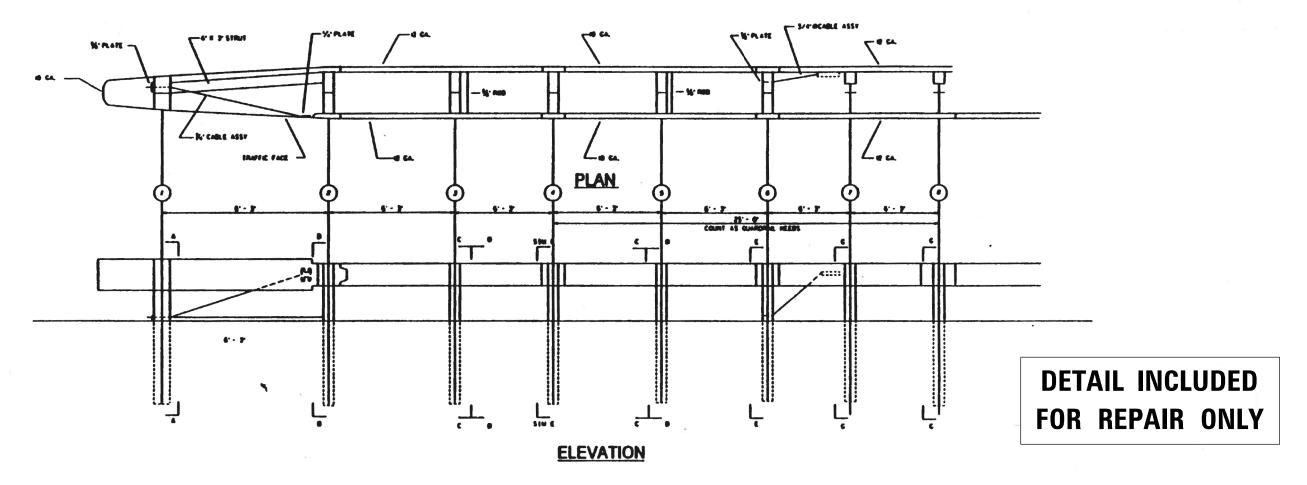
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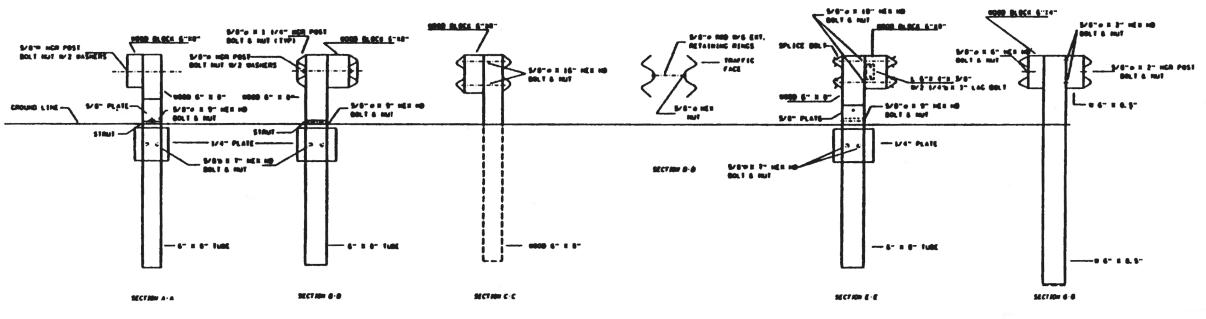
VAR D4 GUARDRALL REPAIRS 2017-MCHE TAZEWELL 27 6

CONTRACT NO. 68D32

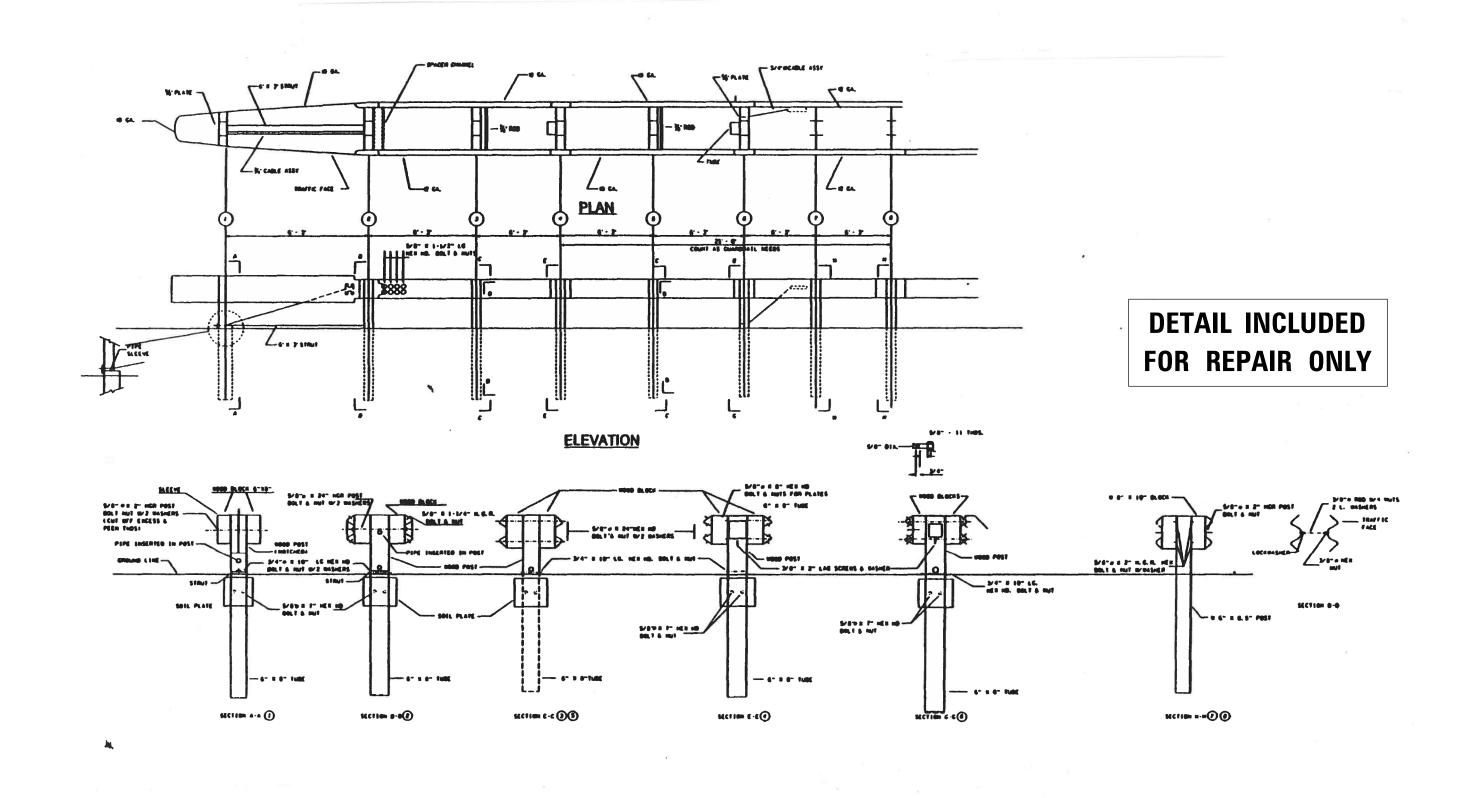
ILLINOIS DEPT OF TRA	NSPORTATION - D	PIST 4 - WO	RK ORDER		TO:
MOTORIST-CAUSED D JOB NUM: ROAD:	CONTRACT 1		CLA	IM NUM: COUNTY	
CODE NUM	ITEM	UNIT	QTY	<u>UNIT PRICE</u>	AMOUNT
SPECIAL INSTRUCTIONS:				ES (This Work Order))\$
WORK ORDER ISSUED:				RV.	
WORK ORDER COMPLETED					
I/WE CERTIFY WORK HAS I	BEEN PERFORMED AC	CORDING TO	THE CONTRA	CT AND HEREBY R	LEQUEST
PAYMENT:	_BY:	ACCEPTED:_		BY:	
VERIFICATION OF WORK C	ORDER COMPLETED:		BY:	· · · · · · · · · · · · · · · · · · ·	
	APPROVED F		Γ		DATE

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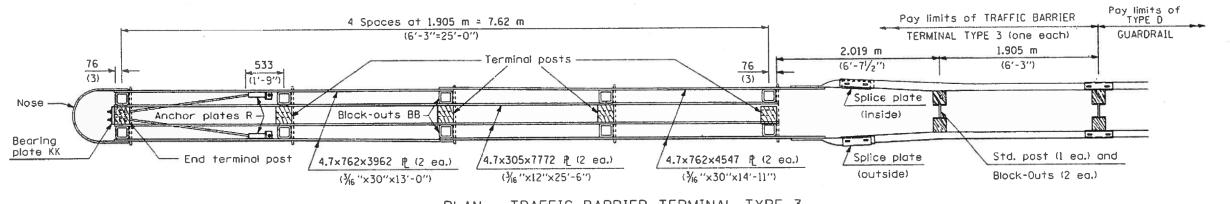




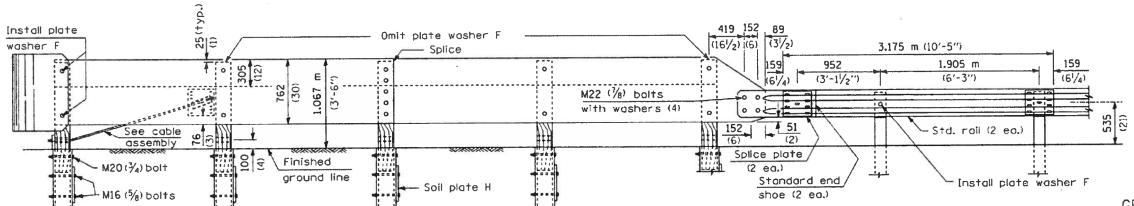
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PLAN - TRAFFIC BARRIER TERMINAL TYPE 3



GENERAL NOTES

All holes in Posts. Block-Outs and Plates shall be 20 mm ($\frac{3}{4}$ ") diameter unless otherwise noted.

See Standard 630001 for details of guardrail elements not shown.

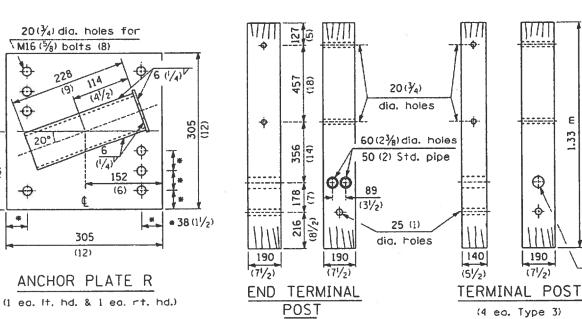
Unless otherwise shown all balts and nuts shall be Standard Post and Splice Bolts and Nuts (See Standard 630001).

Block-Out AA shall be used at all locations unless otherwise noted.

DETAIL INCLUDED FOR REPAIR ONLY

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

ELEVATION



(1 eo.)

TYPICAL BLOCK-OUT/POST ATTACHMENT

 $M16 (\frac{5}{8}) \times 280 (11)$ threaded rod

(10 ea. Type 3) (12 ea. Type 3A)

Plate washer S

for bottom hole

with nuts and washers

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Steel tube

(9)

0

*

 $20(\frac{3}{4})$ dia. holes for

305

(12)

ANCHOR PLATE R

M16 (5/8) bolts (8)

25 (1)

102×64×12.7 ₱

 $(4x2\frac{1}{2}x\frac{1}{2})$

TS 76x51x4.8

(3×2×0.1875)

Opposite hand for

other anchor plate

32 (11/4) dia. hole

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

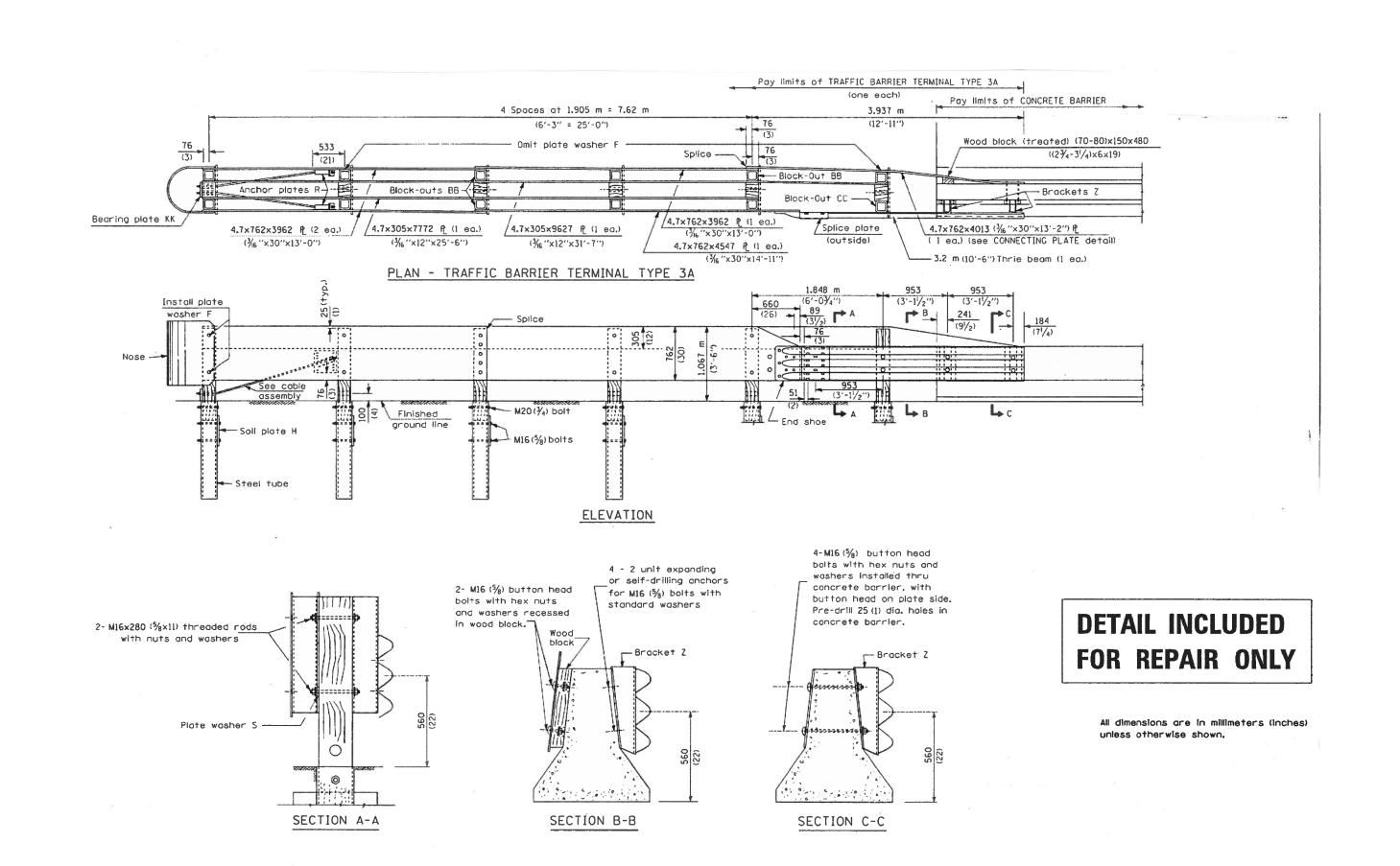
(5 eo. Type 3A)

60 (23/8)

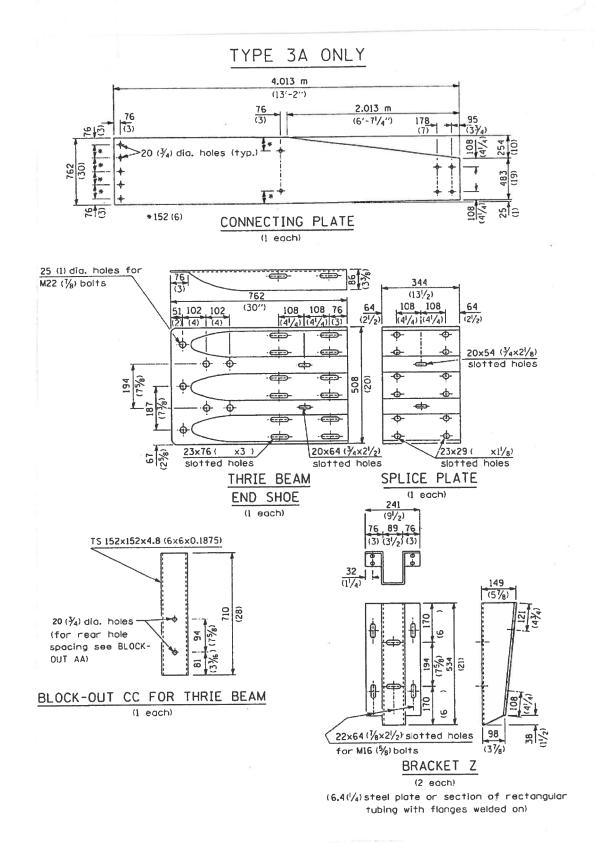
dia. hole

SCALE:

EXISTING TRA	AFFIC BAR	RIER TE	RMINAL	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	
EXISTING TRAFFIC BARRIER TERMINAL TYPE 3 & TYPE 3A	VAR D4 GUARDRAIL REPAIRS 2017-MCHD		TAZEWELL	27	10			
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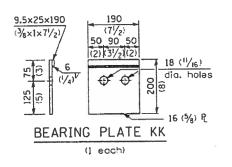


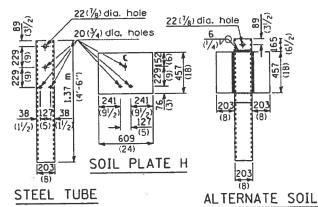
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D468D32-CADD.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS				VAR	D4 GUARDRAIL REPAIRS 2017-MCHD	TAZEWELL	27 11
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		TYPE 3 & TYPE 3A				CONTRAC	T NO. 68D32
Default	PLOT DATE = 2/10/2017	DATE -	REVISED -		SCALE:	SHEET 2 OF 3 SHEETS STA.	TO STA.		ILLINOIS FED. A	D PROJECT	



TYPE 3 & 3A

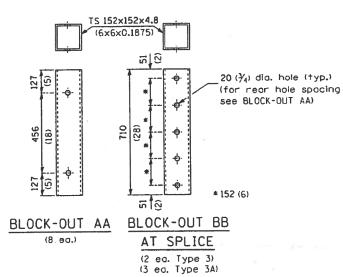
PLATE CONNECTION



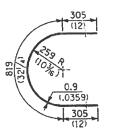


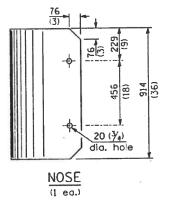
TS 203x203x4.8 (8x8x0.1875) (end terminal post) (1 ea.)

TS 203x152x4.8 (8x6x0.1875) (terminal post) (4 ea. Type 3) (5 ea. Type 3A)



SCALE:





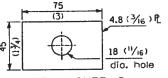


PLATE WASHER S

(11 ea. Type 3A)

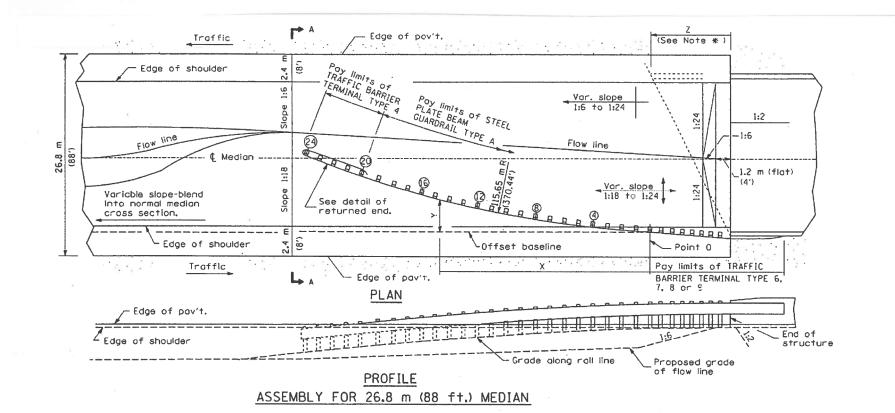
DETAIL INCLUDED FOR REPAIR ONLY

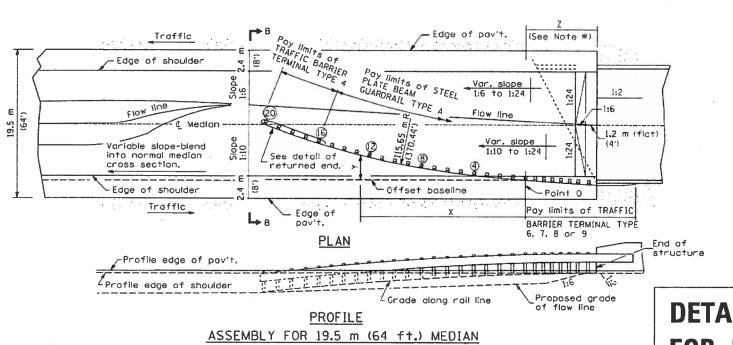
All dimensions are in millimeters (inches) unless otherwise shown.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	EXISTING	TRAFF	IC BARF	IER TE	RMINAL	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TYPE 3 & TYPE 3A						D4 GUARDRAIL REPAIRS 2017-MCHD	TAZEWELL	27	12
TIFE 3 & TIFE 3A								CONTRACT	NO. 6	8D32
	SHEET 3	OF 3	SHEETS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		





OFFSETS TO FACE OF RAIL DISTANCE m OFFSET m X (ft.) Y (ft.) POST POINT (O) (0)7.60 0.56 4 (24.93)(1.83)15.14 1.60 (8) (5.28)3.16 (10.37) (12) 22.60 (74.16)5.20 (17.05) 29.94 (16) (98,23) 37.13 7.71 20) (121.83) (25.3) 10.70 (24) (144.83)(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.

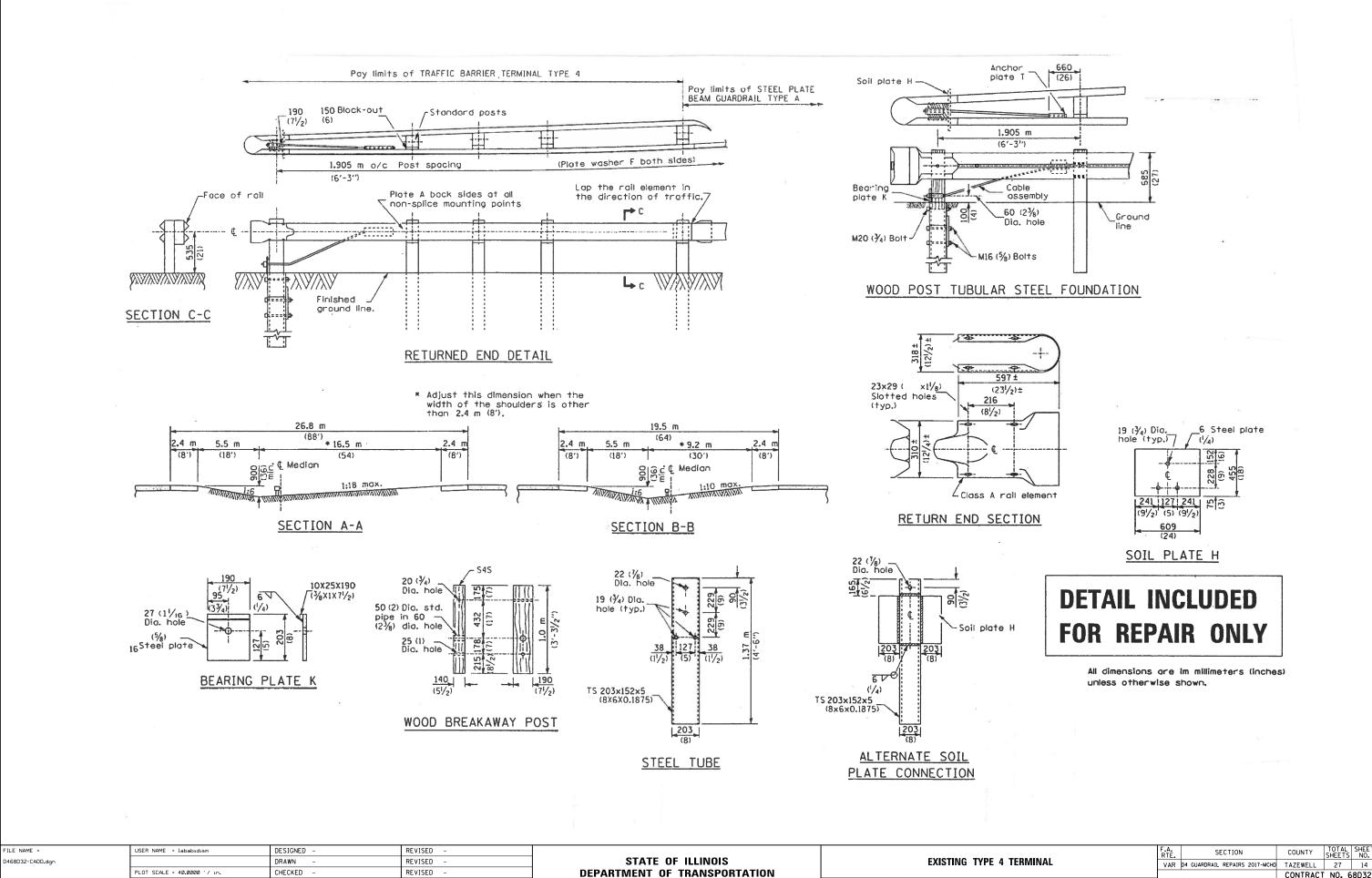
All slopes are expressed as units of vertical displacement to units of horizontal displacement (V:H).

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

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

DETAIL INCLUDED FOR REPAIR ONLY

FILE NAME =	USER NAME = lababidism	DESIGNED -	REVISED -				F.A.	SECTION	COUNTY	TOTAL SHEET
D468D32-CADD.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS		EXISTING TYPE 4 TERMINAL	VAR	D4 GUARDRAIL REPAIRS 2017-MCH	D TAZEWELL	27 13
	PLOT SCALE = 40.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION					CONTRAC	
Default	PLOT DATE = 2/10/2017	DATE -	REVISED -		SCALE:	SHEET 1 OF 2 SHEETS STA. TO STA.		ILLINOIS FED. A	AID PROJECT	



REVISED

PLOT DATE = 2/10/2017

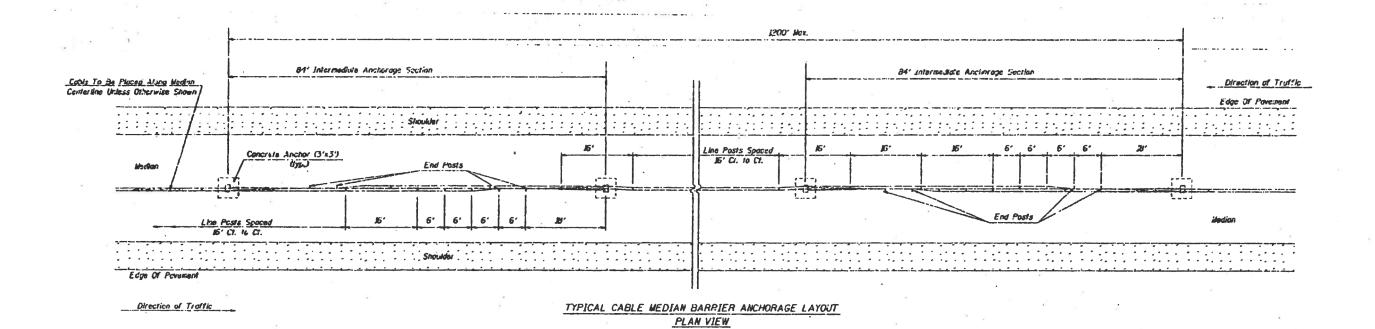
DATE

SCALE:

SHEET 2 OF 2 SHEETS STA.

TO STA.

CONTRACT NO. 68D32



GENERAL NOTE

DELINEATORS: Two reflectors, placed back to back, shall be required for each delineator post.

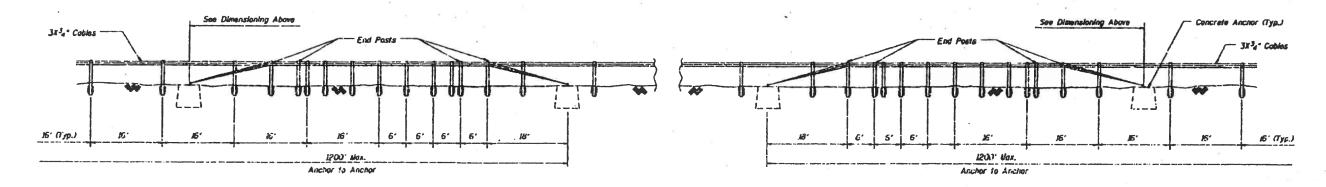
NOTE: This work shall be done in accordance with Section 635 and no additional compensation will be allowed for two single reflector units placed back to back.

The delineator shall be installed adjacent to a cable road guard post at 80 foot centers.

DETAIL INCLUDED FOR REPAIR ONLY

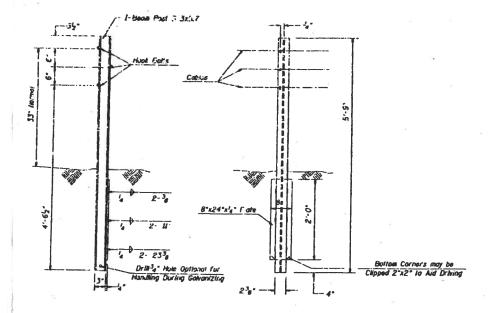
Notes:

All posts are line posts unless otherwise specified.
 See detail sheets for Post, Control Aictor and
 Assembly Ports specifications.



TYPICAL CABLE MEDIAN BARRIER ANCHORAGE LAYOUT ELEVATION VIEW Not to Scote

FILE NAME =	USER NAME = lababidism	DESIGNED -	REVISED -		EXISTING CABLE MEDIAN BARRIER (CABLE ROAD GUARD)							F.A.	SECTION	COUNTY	TOTAL SHEET
D468D32-CADD.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS	EXIS	TING CABLE I	MEDIA	N BAR	RIER	(CABLE	ROAD GUARD)	VAR	D4 GUARDRAIL REPAIRS 2017-MCHD	TAZEWELL	27 15
	PLOT SCALE = 40.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION											CT NO. 68D32
Default	PLOT DATE = 2/10/2017	DATE -	REVISED -		SCALE:	SHEET 1	OF	3 SHE	EETS	STA.	TO STA.		ILLINOIS FED. A	D PROJECT	



MUTES

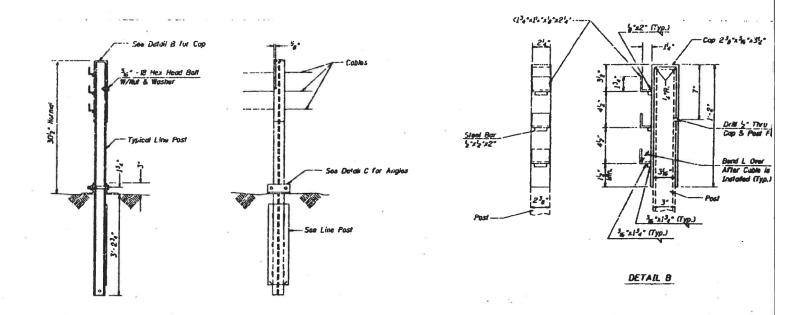
LINE POST DETAIL

- 1. At all locations where the cable is connected to a cable socket with a wadge type connection, one wire of the wire rape shall be crimped over the base of the wadge to hold it firstly in place.

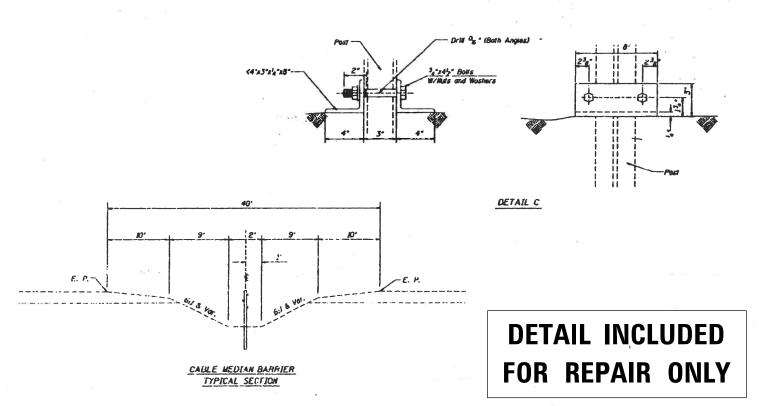
- 4. Alternate bardware designs will be considered for approval provided thier connection details, for the purpose of maintenance substitutions, are compatible with the details of those standards and thier operating characteristics are sheller to those of the hardware shown.
- Threads of externally threaded parts shall be USC. Class 2A tolerance (A.N.S.I. BL.U. Internally threaded parts shall meet the dimensional regularments of ASTM A 563.
- All fittings (Including spicer) shall be so designed to use the leading snown in the wedge dutoil and shall be of such section as to develope the full strength of the "a" nound cable (25,000 Lbs.).
- 7. For arrangement of spring cabre and assemblies (compensating devices) and turnbuckle cable and assemblies, the following criteria shall apply. Length of Cube Runs.
 To 1000" Use compensating cobts and assembly on one and, and turnbuckle cubined assembly on the other and of each individual cubis.
 Over \$000" Use compensating cobe and assembly on each and of each individual cubis.
- All assembly parts and pasts are to be golvenized and no punching, cutting or walking will be parmitted after golvenizing.
- Dimensional tolerances and shown or implied are intended to be those consistent with the proper functioning of the part, including its appearance, and occepted second actuming practices.

Spriny Comprossion from unknown pueliku in wach spring

F 12° 2° 25° 3° 32° 4°



END POST DETAIL



FILE NAME =	USER NAME = lababidism	DESIGNED -	REVISED -
D468D32-CADD.dgn		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 '/ in.	CHECKED -	REVISED -
Default	PLOT DATE = 2/10/2017	DATE -	REVISED -

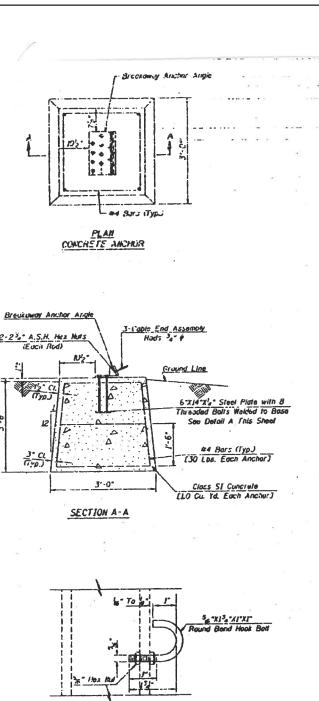
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** EXISTING CABLE MEDIAN BARRIER (CABLE ROAD GUARD SHEET 2 OF 3 SHEETS STA.

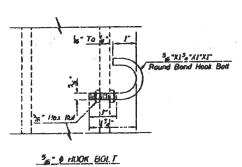
VAR D4 GUARDRAIL REPAIRS 2017-MCHD TAZEWELL 27 16

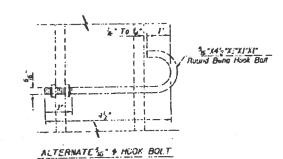
CONTRACT

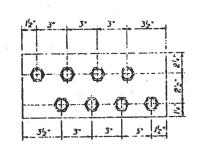
COUNTY TOTAL SHEETS NO.

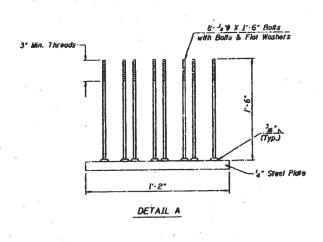
TAZEWELL 27 16

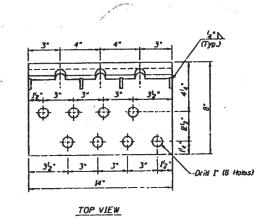


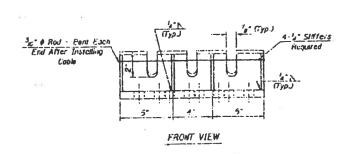


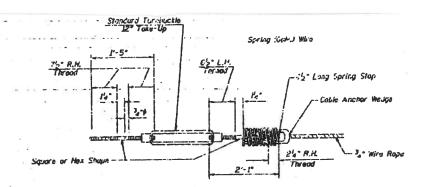




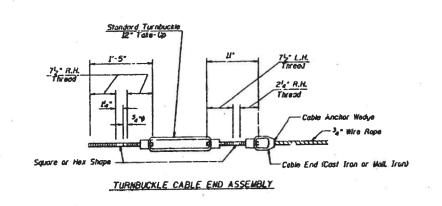


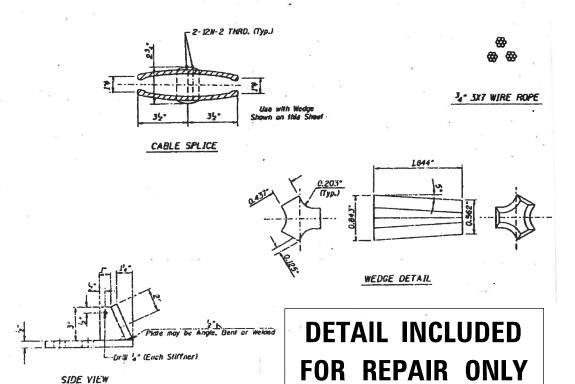






COMPENSATING CABLE END ASSEMBLY

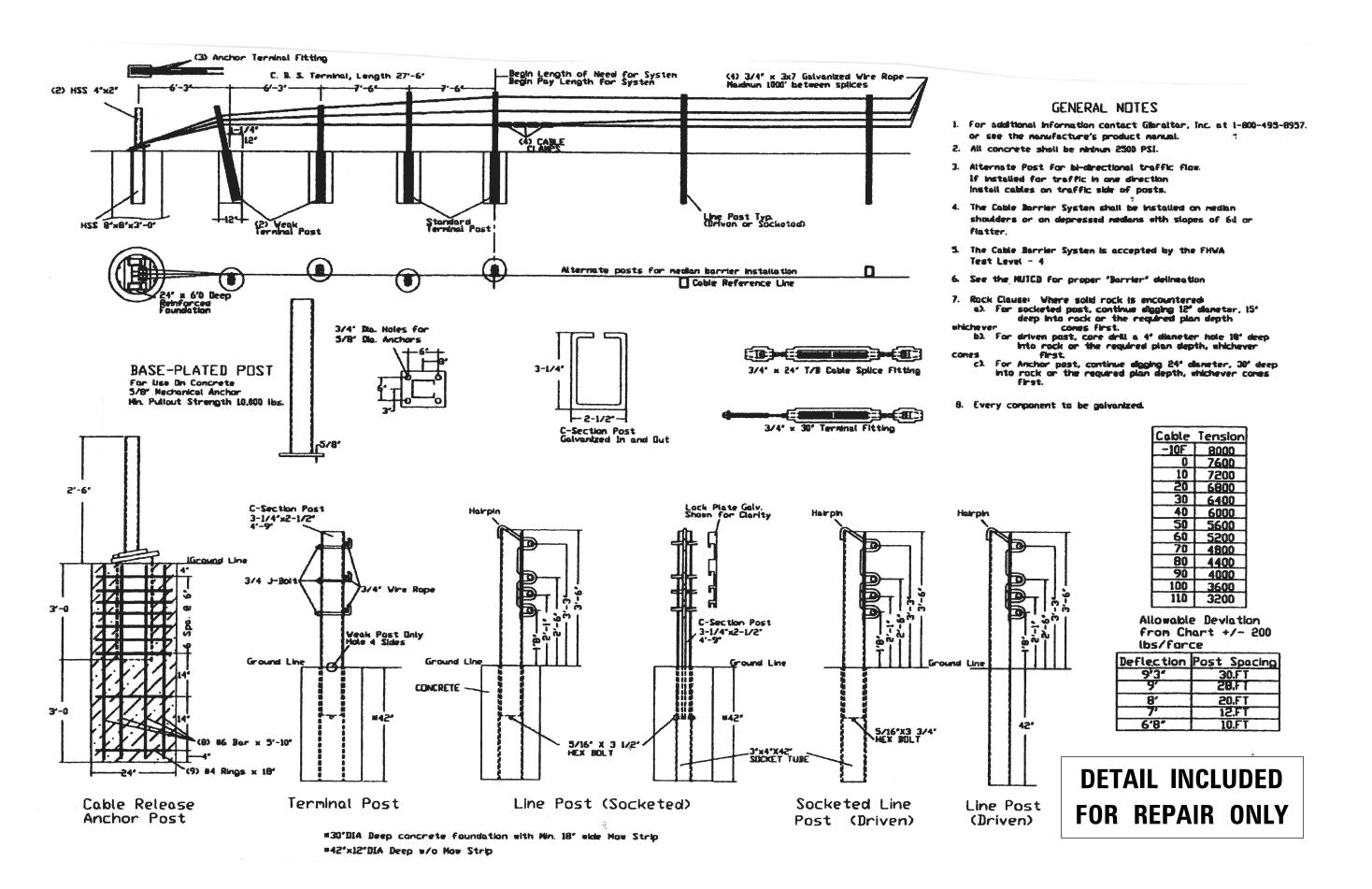




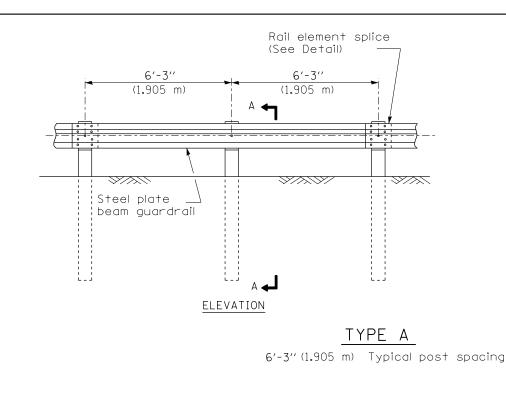
BRESKAWAY ANCHOR ANGLE

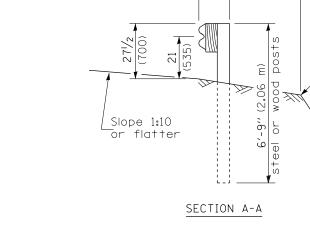
SIDE VIEW

FILE NAME =	USER NAME = lababidism	DESIGNED -	REVISED -									F.A.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
D468D32-CADD.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS	EXISTING CABLE MEDIAN BARRIER (CABLE ROAD GUARD)						VAR	D4 GUARDRAIL REPAIRS 2017-MC	CHD TAZEWELL	27 17	
	PLOT SCALE = 40.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION										CONTRAC	T NO. 68D32
Default	PLOT DATE = 2/10/2017	DATE -	REVISED -		SCALE:	SHEET 3	OF	3 SH	HEETS S	STA.	TO STA.		ILLINOIS FED.	AID PROJECT	



FILE NAME =	USER NAME = lababidism	DESIGNED -	REVISED -				F.A. SECTION	COUNTY TOTAL SHEET
D468D32-CADD.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS	E	XISTING GIBRALTAR CABLE BARRIER DETAIL	VAR D4 GUARDRAIL REPAIRS 2017-MC	CHD TAZEWELL 27 18
	PLOT SCALE = 40.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT NO. 68D32
Default	PLOT DATE = 2/10/2017	DATE -	REVISED -		SCALE:	SHEET 1 OF 1 SHEETS STA. TO STA.	ILLINOIS FED.	AID PROJECT





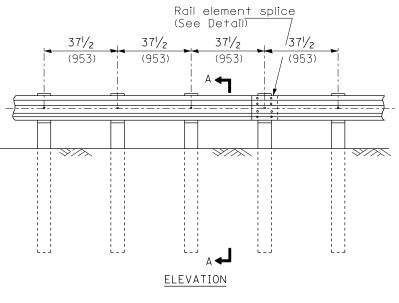
Slope 1:10

or flatter

Finished —/
ground line

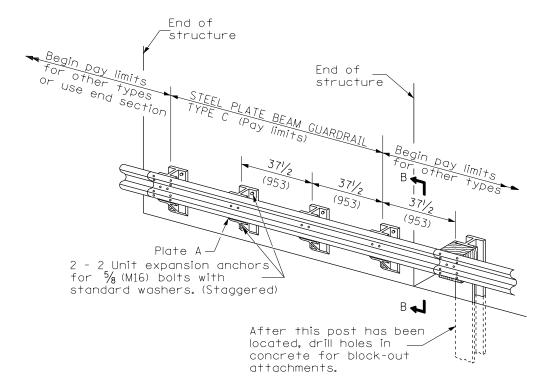
Edge of

shoulder



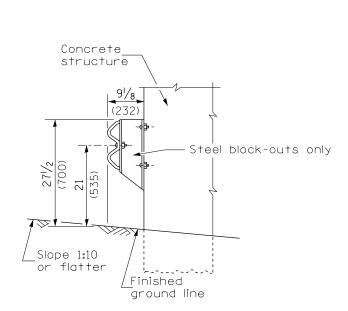
TYPE B

 $37\frac{1}{2}$ (953) Closed post spacing



TYPE C

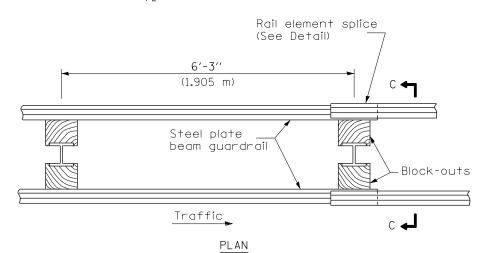
 $37\frac{1}{2}$ (953) Block-out spacing



SECTION C-C

2'(610) min.

Hinge point



TYPE D

Double steel plate beam guardrail 6'-3" (1.905 m) typical post spacing

GENERAL NOTES

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.

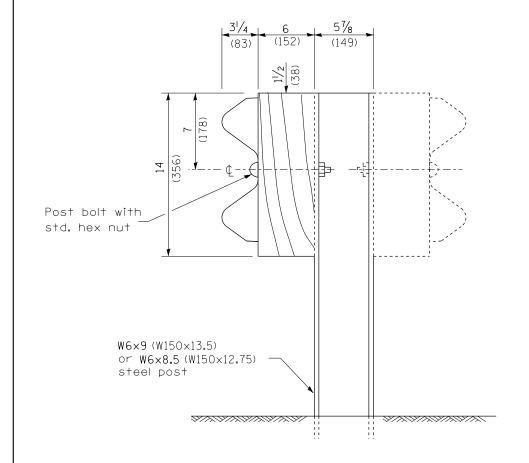
The existing steel posts may be drilled to match the bolt pattern shown herein for the wood block-out, or a new steel post shall be provided.

This detail is applicable to the guardrail system used prior to January 1, 2007. For details on the Midwest Guardrail System, see Standard 630001.

SECTION B-B

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

03-01-07 NEW DETAIL	RJD		OTATE OF HUMBIO	STEEL PLATE BEAM GUARDRAIL, TY	PE A.		CTION	COUNTY	TOTAL SHEE SHEETS NO.
03-07-11 Revised designer note	RJD		STATE OF ILLINOIS	6.75 FOOT POSTS	_ · ·	VAR D4 GUARDRAIL	REPAIRS 2017-MCH	TAZEWELL	27 19
			DEPARTMENT OF TRANSPORTATION		SHT. 1 OF 4	·		CONTRAC	T NO. 68D32
				NOT TO SCALE	CADD STD. 630011-D4	FED. ROAD DIST. NO.	ILLINOIS FED. A	ID PROJECT	



STEEL POST CONSTRUCTION

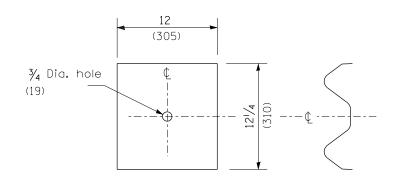
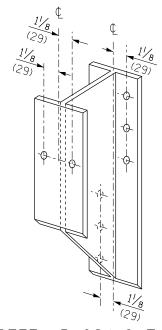


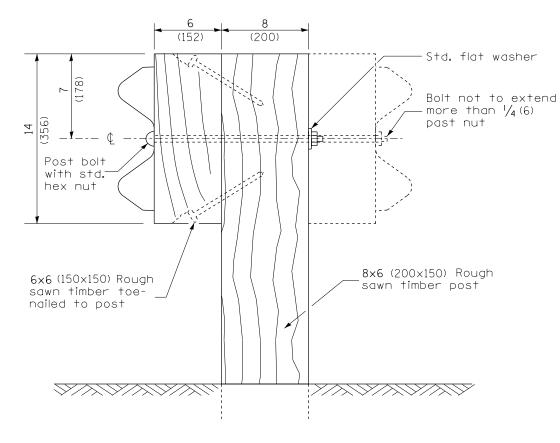
Plate A shall be placed between rail element and block-out at non-splice mounting points only when steel block-outs are used.

NOTE

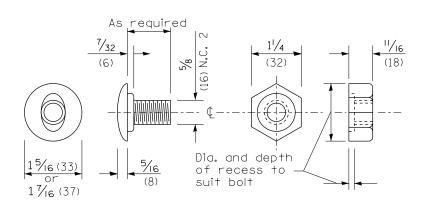
PLATE A



STEEL BLOCK-OUT DETAIL



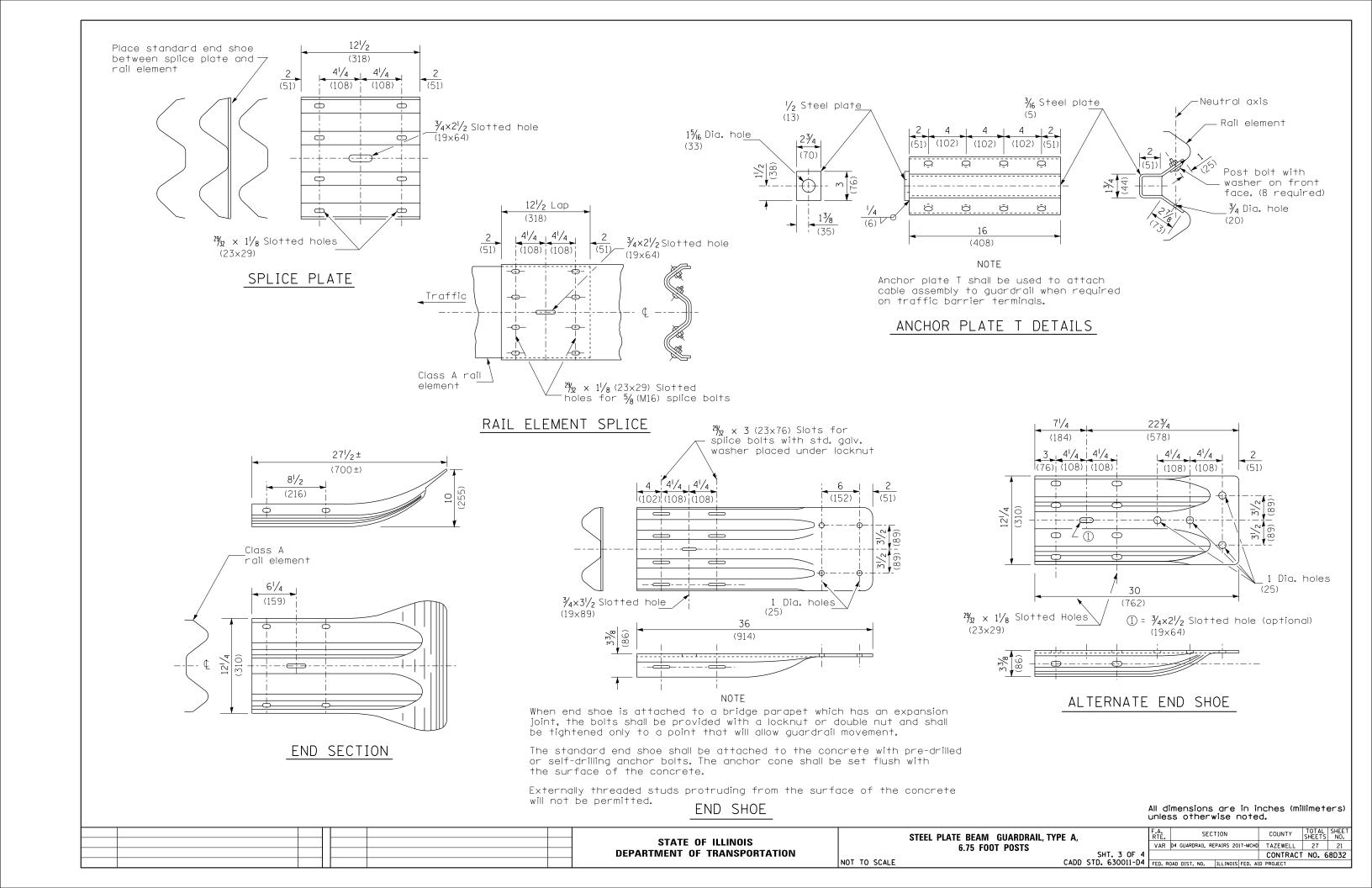
WOOD POST CONSTRUCTION

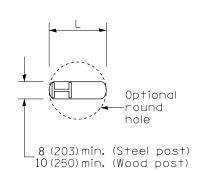


POST OR SPLICE BOLT & NUT

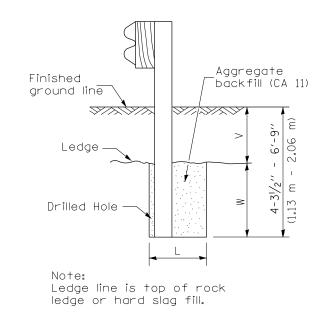
All dimensions are in inches (millimeters) unless otherwise noted.

		OTATE OF HARMON	STEE	EL PLATE BEAM GUARDRAIL, TYPE A		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
<u> </u>		STATE OF ILLINOIS		6.75 FOOT POSTS	,	VAR	D4 GUARDRAIL REPAIRS 2017-MCHD	TAZEWELL	27	20
		DEPARTMENT OF TRANSPORTATION	NOT TO SCALE	CAD	SHT. 2 OF 4		OAD DIST, NO. ILLINOIS FED. AI	CONTRAC	ST NO.	68D32



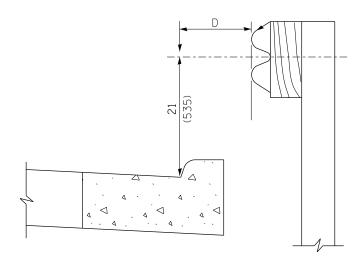


PLAN



ELEVATION

FOOTING FOR POST WHEN IMPERVIOUS MATERIAL IS ENCOUNTERED

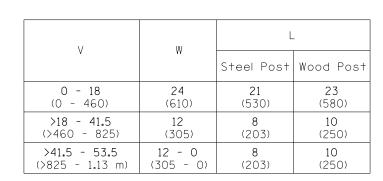


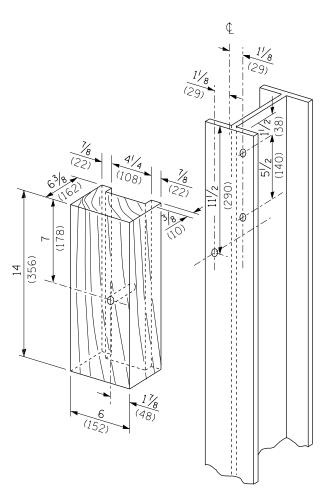
Note:

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

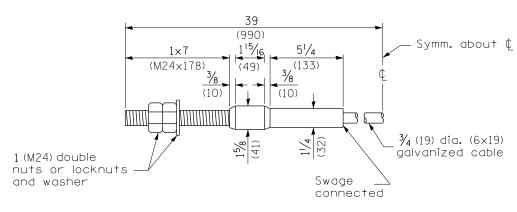
GUARDRAIL PLACED BEHIND CURB

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





WOOD BLOCK-OUT AND STEEL POST DETAILS

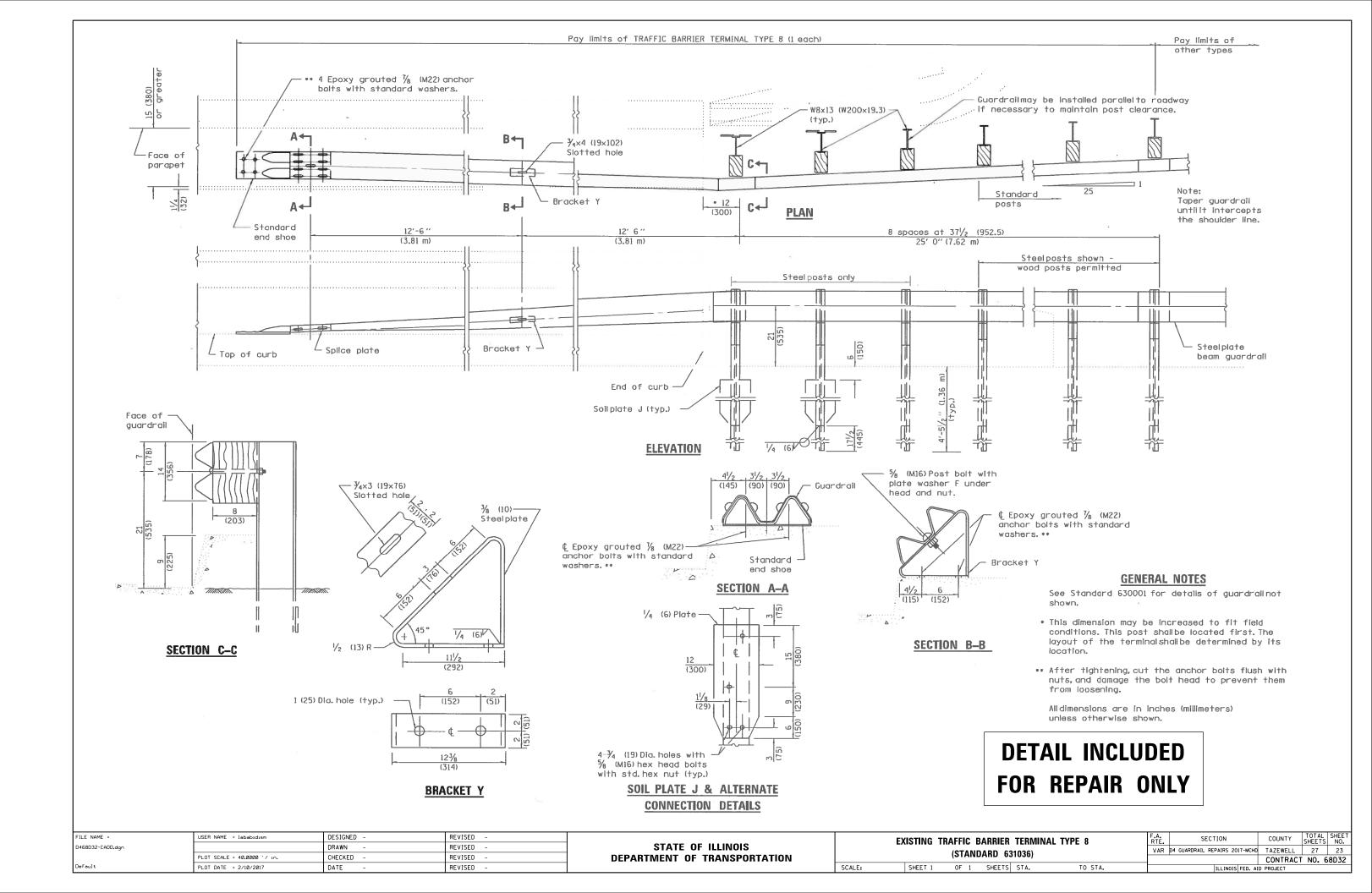


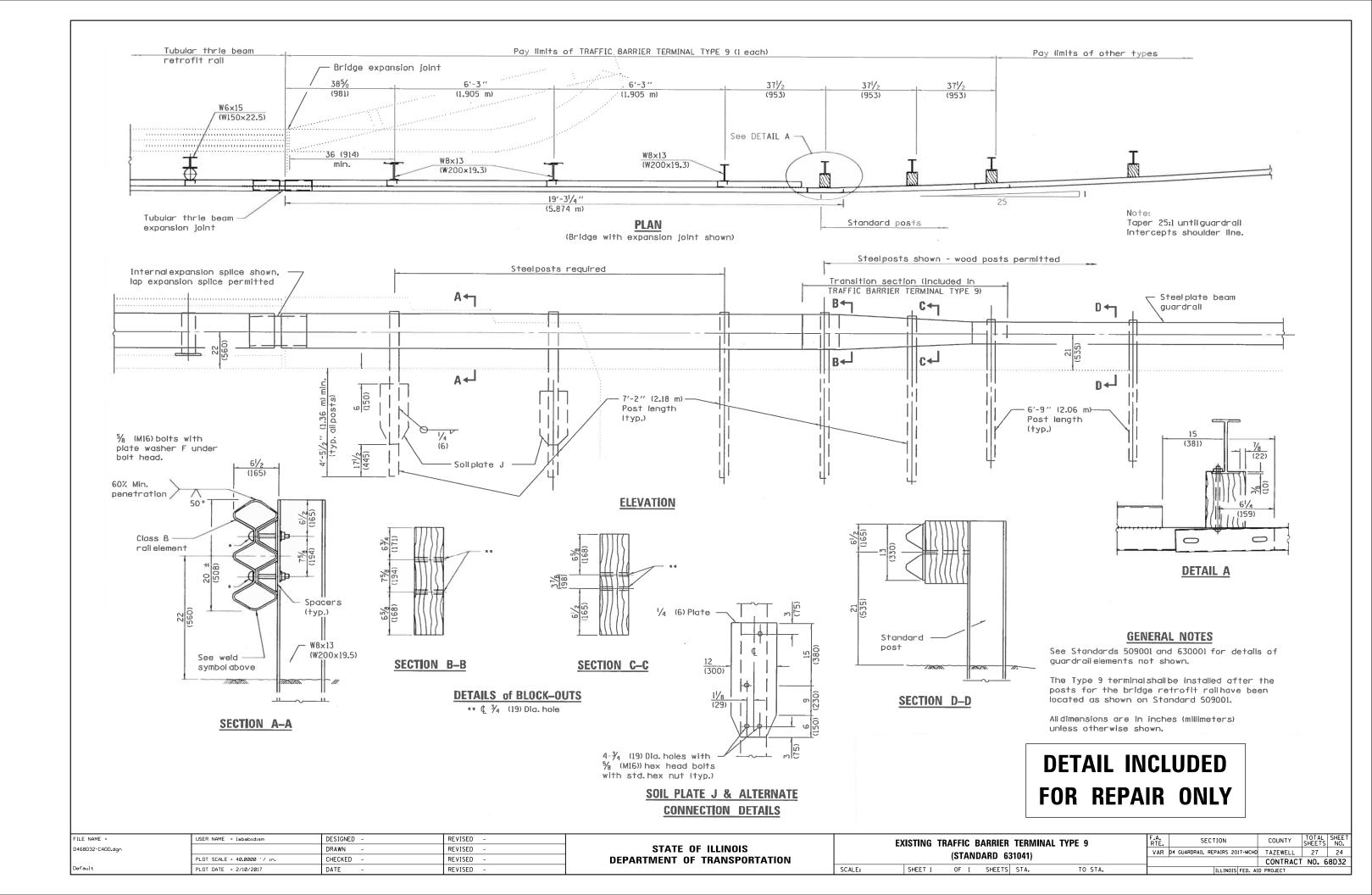
CABLE ASSEMBLY

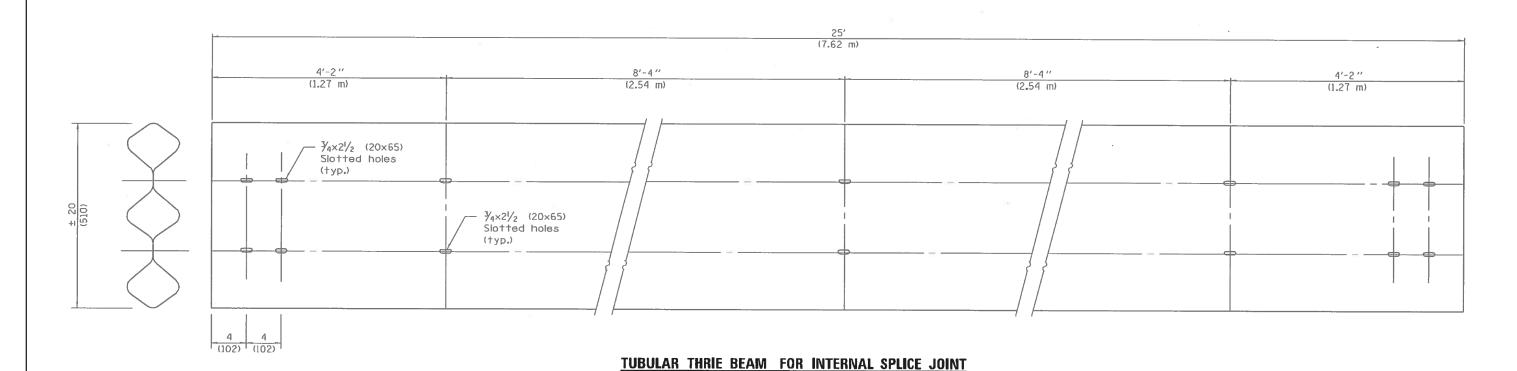
(18,100 kg (40,000 lbs.) min. breaking strength)
Tighten to taut tension.

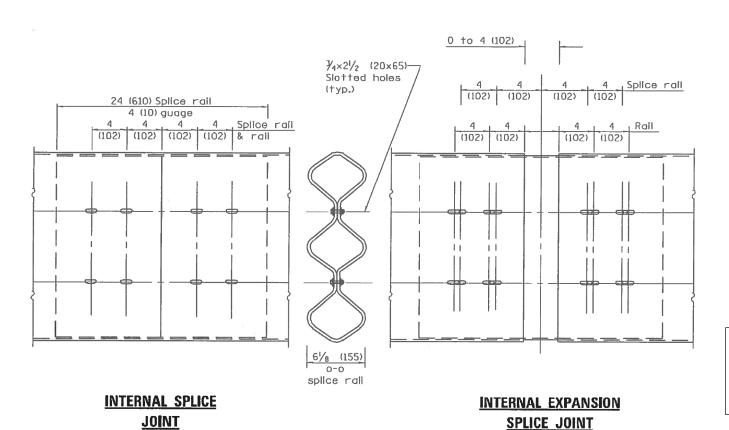
All dimensions are in inches (millimeters) unless otherwise noted.

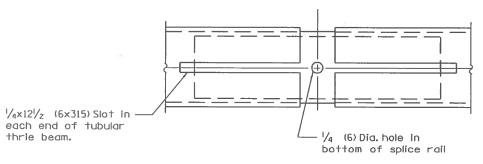
	OTATE OF HIMMON		STEEL PLATE BEAM GUARDRAIL, TYPE A	Α.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		6.75 FOOT POSTS		VAR D4	GUARDRAIL REPAIRS 2017-MCH	D TAZEWELL	_ 27	22
	DEPARTMENT OF TRANSPORTATION	NOT TO SCALE			FED. ROAD	D DIST. NO. ILLINOIS FED. A	CONTRAC AID PROJECT	ET NO. 6	68D32











BOTTOM VIEW OF INTERNAL EXPANSION SPLICE JOINT

DETAIL INCLUDED FOR REPAIR ONLY

thrie beam.

GENERAL NOTES

Plate Washers B are to be placed under both heads and nuts of splicing bolts for internal splice and internal expansion splice joint.

Plate Washers C are to be placed under both heads and nuts of splicing bolts for lap expansion and internal lap splice joint.

See Standard 630001 for details of guardrail not shown.

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

FILE NAME =	USER NAME = lababidism	DESIGNED -	REVISED -		FXISTIN	NG TURIUAR	THRIF	RFΔ	M RFTR	OFIT RAIL FOR BRIDGES	F.A. RTE	SECTION	COUNTY	TOTAL SHEET
D468D32-CADD.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS	(STANDARD 509001)					VAI	R D4 GUARDRAIL REPAIRS 2017-MCHD	TAZEWELL	27 25	
	PLOT SCALE = 40.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION			(21A	ANUAR	เก อกลกเ	ווט			CONTRAC	CT NO. 68D32
Default	PLOT DATE = 2/10/2017	DATE -	REVISED -		SCALE:	SHEET 1	OF	3 S	HEETS ST.	A. TO STA.		ILLINOIS FED. A	ID PROJECT	

