

PROPOSED HIGHWAY PLANS

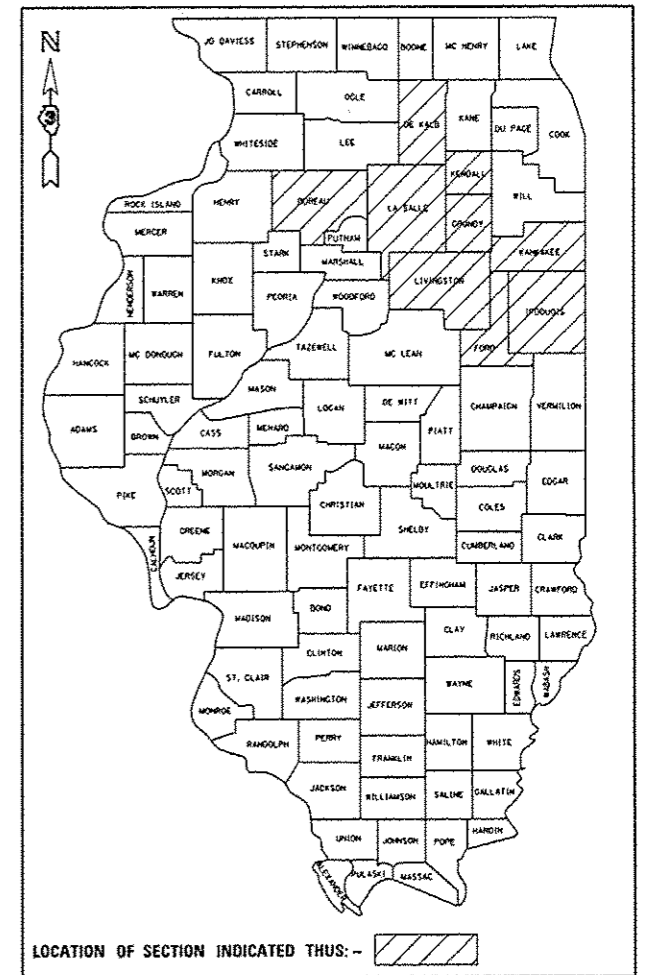
VARIOUS ROUTES
DIST 3 HWY DAMAGE REPAIR FY17
VARIOUS COUNTIES

C-93-072-16

REPAIRING MOTORIST CAUSED DAMAGE TO HIGHWAY FACILITIES

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	*	VARIOUS	43	1
FED. ROAD DIST. NO. ILLINOIS		CONTRACT NO. 66E94		
* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 17				

D-93-006-16



INDEX OF SHEETS

- 1 COVER SHEET
- 2 STANDARDS AND GENERAL NOTES
- 3 - 6 SUMMARY OF QUANTITIES
- 7 REFLECTOR AND TERMINAL MARKER PLACEMENT DETAIL
- 8 REFLECTOR DETAIL
- 9 TIMBER CURB & BITUMINOUS CURB REPAIR, GUARD POST DETAIL & IMPACT ATTENUATOR LAYOUT PLAN
- 10 - 12 TUBULAR THRIE BEAM RETROFIT RAIL FOR BRIDGES
- 13 - 14 TRAFFIC BARRIER TERMINAL, TYPE 1
- 15 - 17 TRAFFIC BARRIER TERMINAL, TYPE 3 & 3A
- 18 - 19 TRAFFIC BARRIER TERMINAL, TYPE 4
- 20 TRAFFIC BARRIER TERMINAL, TYPE 8
- 21 TRAFFIC BARRIER TERMINAL, TYPE 9
- 22 TRAFFIC BARRIER TERMINAL, TYPE 12
- 23 - 43 PRE-MCS GUARDRAIL STANDARDS EFFECTIVE APRIL 1, 2006

HIGHWAY STANDARDS

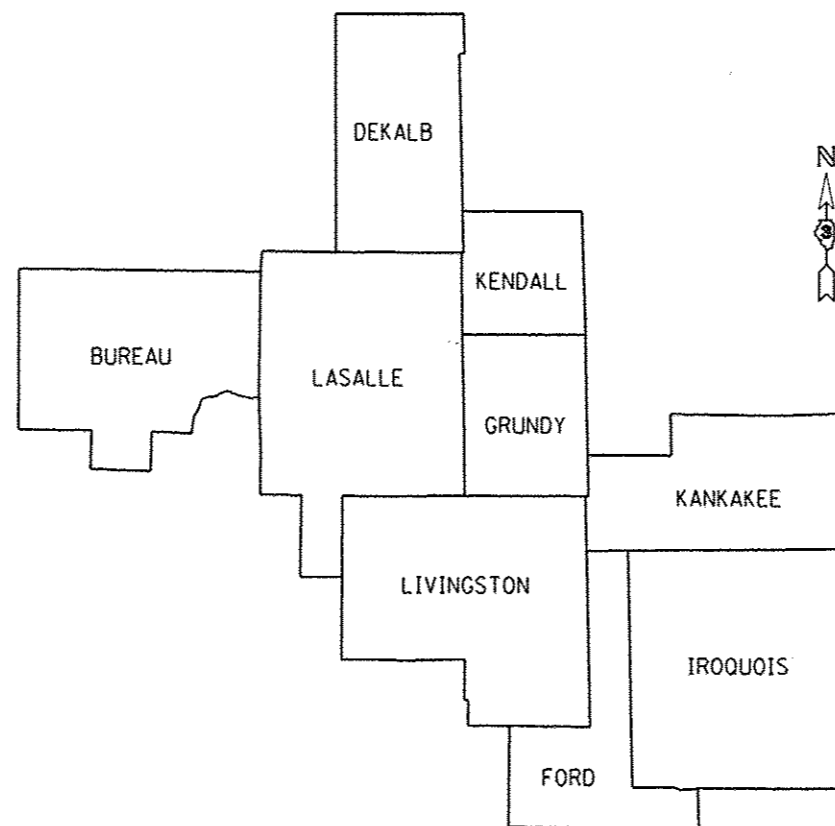
SEE PAGE 2 FOR LIST OF HIGHWAY STANDARDS

MICROFILMED _____
 REEL NUMBER _____
 AWARDED _____
 RESIDENT ENGINEER _____
 AS BUILT CHANGES WERE MADE
 ON THE FOLLOWING SHEETS _____

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

SAFETY AND CLAIMS MANAGER : KRIS FOGARTY
 UNIT CHIEF : PAT BRABOY, P.E.

DISTRICT 3 NO. (815) 434-6131
 CONTRACT NO. 66E94



LOCATION MAP
NOT TO SCALE

DISTRICT 3

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUBMITTED *March 21, 2016*
Paul Coetzee
 REGIONAL ENGINEER

Maureen M. Addison
 ENGINEER OF DESIGN AND ENVIRONMENT

Maureen M. Addison
 DIRECTOR OF PROGRAM DEVELOPMENT

PRINTED BY THE AUTHORITY
 OF THE STATE OF ILLINOIS

PLOT DATE = 3/21/2016
 FILE NAME = p:\11\084EBID\INTEG.illinois.gov\PI\DOT\Documents\IDOT Offices\District 3\Projects\0366E94\CADD\0366E94\0366E94-sht-cover.dgn
 PLOT SCALE = 261502.0910 / in.
 USER NAME = sentiegoc

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

630001-10	STEEL PLATE BEAM GUARDRAIL
630101-09	GUARDRAIL MOUNTED ON EXISTING CULVERTS
630106-01	LONG-SPAN GUARDRAIL OVER CULVERT
630201-06	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-06	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631006-08	TRAFFIC BARRIER TERMINAL, TYPE 1B
631011-09	TRAFFIC BARRIER TERMINAL, TYPE 2
631026-06	TRAFFIC BARRIER TERMINAL, TYPE 5
631031-14	TRAFFIC BARRIER TERMINAL, TYPE 6
631032-08	TRAFFIC BARRIER TERMINAL, TYPE 6A
631033-06	TRAFFIC BARRIER TERMINAL, TYPE 6B
631046-04	TRAFFIC BARRIER TERMINAL, TYPE 10
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' (4.5 m) AWAY
701006-05	OFF-ROAD OPERATIONS 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS 2L, 2W, DAY ONLY
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS **e** 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701400-08	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-09	LANE CLOSURE, FREEWAY/EXPRESSWAY
701402-11	LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER
701406-10	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP FOR SPEEDS **e** 45 MPH
701416-09	LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH CROSSOVER AND BARRIER
701421-07	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS **e** 45 MPH TO 55 MPH
701422-08	LANE CLOSURE, MULTILANE, FOR SPEEDS **e** 45 MPH TO 55 MPH
701423-09	LANE CLOSURE, MULTILANE, WITH BARRIER, FOR SPEEDS **e** 45 MPH TO 55 MPH
701426-08	LANE CLOSURE, MULTILANE INTERMITTENT OR MOVING OPERATION, FOR SPEEDS **e** 45 MPH
701427-04	LANE CLOSURE, MULTILANE INTERMITTENT OR MOVING OPERATION, FOR SPEEDS **d** 40 MPH
701428-01	TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY/EXPRESSWAY
701446-07	TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
701451-03	RAMP CLOSURE FREEWAY/EXPRESSWAY
701456-03	PARTIAL EXIT RAMP 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 OR 2W WITH NONTRAVERSABLE MEDIAN
701602-07	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701606-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701611-01	URBAN HALF ROAD CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-05	TRAFFIC CONTROL DEVICES
725001	OBJECT AND TERMINAL MARKERS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

GENERAL NOTES

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

THE CONTRACTOR IS ADVISED THAT THERE MAYBE PRESENCE OF DEPARTMENT-OWNED UNDERGROUND ELECTRICAL CABLE WITHIN THE LIMITS OF THE PROPOSED IMPROVEMENT. THE CONTRACTOR SHALL REQUEST THE ILLINOIS DEPARTMENT OF TRANSPORTATION IN OTTAWA (815-434-8417) TO LOCATE THE UNDERGROUND FACILITIES, PROVIDING A MINIMUM OF 72 HOURS NOTICE. THE DEPARTMENT IS NOT A MEMBER OF THE JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS (JULIE) SYSTEM.

ALL DAMAGE TO DEPARTMENT OWNED UNDERGROUND FACILITIES, CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE DEPARTMENT AT THE CONTRACTOR'S EXPENSE. THIS SHALL INCLUDE ALL TEMPORARY REPAIRS REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS. SPLICING OF ELECTRIC CABLE SHALL NOT BE ALLOWED. ELECTRIC CABLE SHALL BE REPLACED FROM POLE TO POLE OR CONTROLLER.

THE CONTRACTOR IS REMINDED TO CAREFULLY EXAMINE THIS CONTRACT FOR NEW OR CHANGED CONDITIONS FROM ANY PRVIOUS VERSION HE MAY HAVE EXAMINED.

THE REMOVAL OF DAMAGED GUARDRAIL AND DAMAGED POSTS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE VARIOUS REPLACEMENT PAY ITEMS.

THE TRAFFIC CONTROL REQUIRED FOR THE REPAIRS OR INSTALLATION OF GUARDRAIL OR FENCE SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS PAY ITEMS OF WORK, AND SHALL BE IN ACCORDANCE WITH THE TRAFFIC CONTROL STANDARDS INCLUDED HEREIN.

ALL HARDWARE (NUTS, BOLTS, WASHERS, STAPLES, WIRES, TIES, ETC.) REQUIRED FOR THE REPAIRS TO OR INSTALLATION OF GUARDRAIL AND FENCE SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS PAY ITEMS OF WORK IN THIS CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE J.U.L.I.E. NUMBER IS 1-800-892-0123. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE
AS BUILT INFORMATION

SUPERVISING CONSTRUCTION FIELD ENGINEER

RESIDENT ENGINEER / TECHNICIAN

START & END DATES
OF CONSTRUCTION:

INSPECTORS:

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

PREPARED BY: *Dan Benoit*
DISTRICT STUDIES & PLANS ENGINEER

DATE: *March 21, 2016*

EXAMINED BY: *Dan Benoit*
DISTRICT CONSTRUCTION ENGINEER

Walter P. ...
DISTRICT MATERIALS ENGINEER

James A. ...
DISTRICT OPERATIONS ENGINEER

* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 17

FILE NAME *	USER NAME *	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES				F.A.	SECTION		COUNTY	TOTAL	SHEET			
pw\111884EBIDINTEC\Illinois.gov\PIDOT\G...	...entiaegoct	...Date\B3xxxxx\ght-roover.dgn	REVISD -		SCALE: _____ SHEET NO. _____ OF _____ SHEETS STA. _____ TO STA. _____								VAR.	VAR.		43	2
	PLOT SCALE = 261582.0918 1" = 1 mi.	CHECKED -	REVISD -		FED. ROAD DIST. NO. _____ [ILLINOIS] FED. AID PROJECT								CONTRACT NO. 66E94				
	PLOT DATE = 3/21/2016	DATE -	REVISD -														

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				MCHD 100% MCHD ROADWAY	CONST. MAIN. 100% STATE ROADWAY
				0021 07M0	0021 07E0
63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	2	2	
63100070	TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	1	1	
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	1	1	
63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	1	1	
63100089	TRAFFIC BARRIER TERMINAL, TYPE 6B	EACH	1	1	
63100095	TRAFFIC BARRIER TERMINAL, TYPE 8	EACH	1	1	
63100101	TRAFFIC BARRIER TERMINAL, TYPE 9	EACH	1	1	
63100105	TRAFFIC BARRIER TERMINAL, TYPE 10	EACH	1	1	
63100115	TRAFFIC BARRIER TERMINAL, TYPE 12	EACH	1	1	
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	35	20	15
63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	4	2	2
63301210	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	25		25
63301215	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE B	FOOT	25		25
63400105	GUARD POSTS	EACH	20	10	10

14

• DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 17

FILE NAME *	USER NAME * aontigost	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\1\1004E8(DINTEG.illinois.gov\PWIDOT\Documents\DOT Offices\District 3\Projects\036\DRAWING\03xxxx-ent-cover.dgn	PLotted\DOT Offices\District 3\Projects\036\DRAWING\03xxxx-ent-cover.dgn	CHECKED - _____	REVISED - _____					VAR.	*	VARIES	43	3
Default	PLLOT SCALE * 250000.0000 ' / in.	CHECKED - _____	REVISED - _____		SCALE: _____	SHEET _____	OF _____	SHEETS	STA. _____	TO STA. _____	CONTRACT NO. 66E94	
	PLLOT DATE * 3/21/2016	DATE - _____	REVISED - _____		ILLINOIS FED. AID PROJECT							

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				MCHD 100% MCHD ROADWAY 0021 07MO	CONST. MAIN. 100% STATE ROADWAY 0021 07EO
64300260	IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1	1	
66400105	CHAIN LINK FENCE, 4'	FOOT	100	50	50
66400305	CHAIN LINK FENCE, 6'	FOOT	100	50	50
66500105	WOVEN WIRE FENCE, 4'	FOOT	6000	2000	4000
67100100	MOBILIZATION	LSUM	1	0.5	0.5
78200410	GUARDRAIL MARKERS, TYPE A	EACH	125	75	50
X0321563	REPAIR TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL	EACH	40	20	20
X0322878	TIMBER CURB	FOOT	32	32	
X0326126	WOOD TERMINAL POST	EACH	1	1	
X6300215	RAIL ELEMENT PLATES	EACH	300	150	150
X6300230	STEEL POSTS	EACH	300	150	150
X6331101	TUBULAR THRIE BEAM	FOOT	25	25	
X6331105	STEEL POSTS, MODIFIED	EACH	5	3	2
X6331110	STEEL POSTS, SPECIAL	EACH	20	10	10

19

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				MCHD 100% MCHD ROADWAY	CONST. MAIN. 100% STATE ROADWAY
				0021 07M0	0021 07E0
X6432110	REPLACE IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3	EACH	100	50	50
X6610200	HOT-MIX ASPHALT CURB REPAIR	FOOT	25	25	
X6640502	CHAIN LINK FENCE POST	EACH	10	5	5
X7011834	TRAFFIC CONTROL AND PROTECTION, CALL OUT WORK	EACH	25	10	15
X7011836	TRAFFIC CONTROL AND PROTECTION, FREEWAY/EXPRESSWAY, CALL OUT WORK	EACH	25	10	15
Z0008760	EMERGENCY WORK CALL OUT	EACH	95	45	50
Z0012752	CONCRETE STRUCTURE REPAIR	CU FT	15	15	
Z0020210	PULL POST ARRANGEMENT	EACH	20	10	10
Z0029665	REPAIR TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL - RAIL ELEMENT PLATE	FOOT	25		25
Z0052400	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	1		1
Z0052600	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1	
Z0052700	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 3	EACH	1	1	
Z0052800	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 3A	EACH	1	1	
Z0052900	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 4	EACH	1	1	

14

* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 17

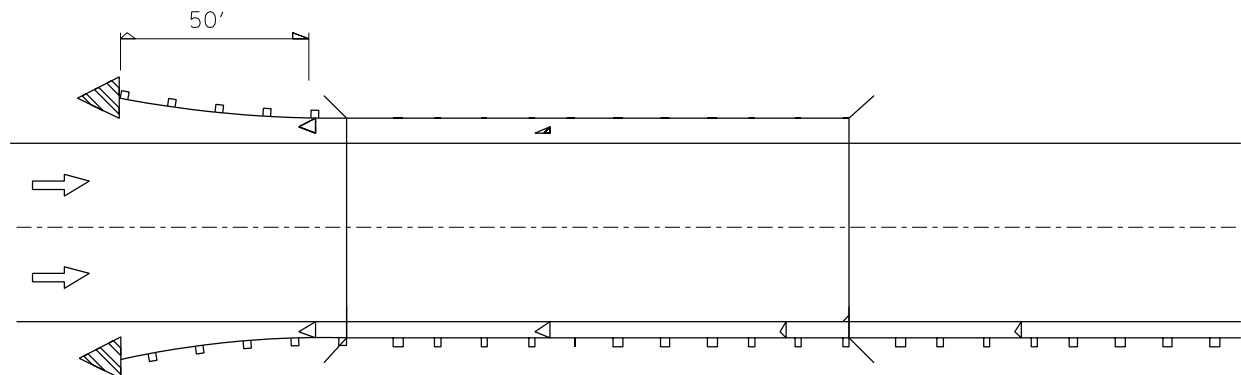
FILE NAME *	USER NAME # soringoat	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pr:\1\12848IDINTEG\illinois.gov\PWID007\00	Documents\DOT Offices\District 3\Projects\030	DRAWN Data\03\www\shs\cover.dgn	REVISED -				VAR.			VARIABLES	43	5
PLOT SCALE * 25000.0000 ' / in.	CHECKED -	REVISED -	DATE		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	
Default	PLOT DATE * 3/21/2016	DATE	REVISED -								CONTRACT NO. 66E94	

4-15-16

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				MCHD 100% MCHD ROADWAY	CONST. MAIN. 100% STATE ROADWAY
				0021	0021
				07M0	07E0
Z0053000	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	1	1	
Z0053200	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	1	1	
Z0053210	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	1	1	
Z0053400	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 8	EACH	1	1	
Z0053500	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 9	EACH	1	1	
Z0053575	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 12	EACH	1	1	

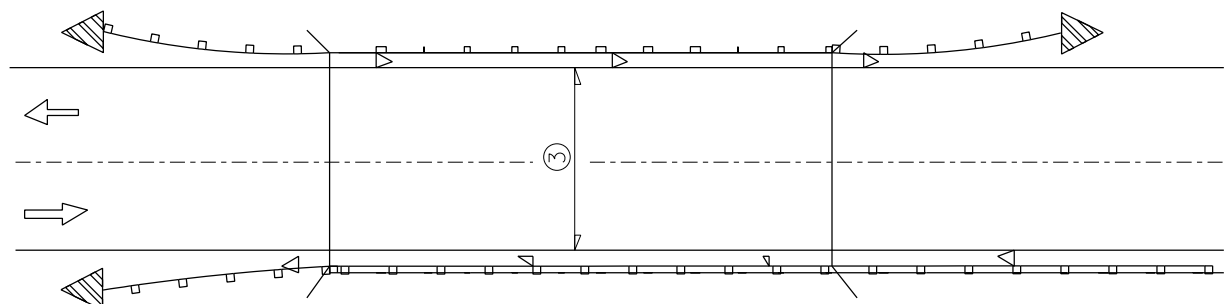
10

◆ DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 17



Reflectors are not to be placed on Terminal End Sections.
 (min. 3 reflectors regardless of length).
 After 400 ft transition, match existing delineator spacing.

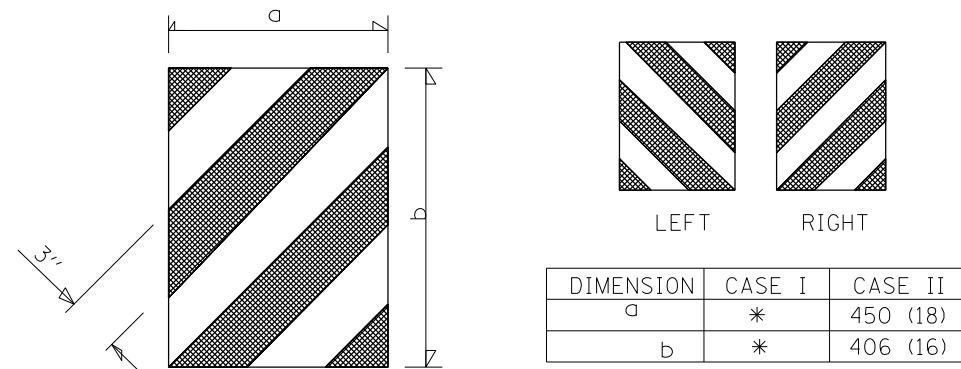
ONE-WAY TRAFFIC



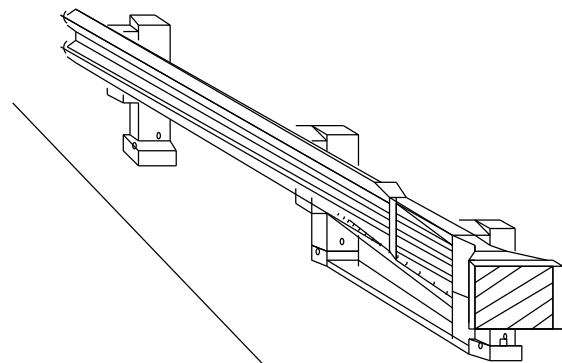
③ Bidirectional silver/silver should be used in lieu of monodirectional silver on both sides of two-lane bridges where the pavement is less than 24' wider than the pavement approaching the bridge.

- ◁ Monodirectional silver
- ◀ Monodirectional amber
- ◀ Terminal Marker - Black/Yellow
Left or Right as appropriate

TWO-WAY TRAFFIC



* The width and height (a, b) of the terminal marker shall be within approximately 25 mm (1 inch) of the outer edge of the terminal end, with a minimum reflective area of 0.18 m² (288 sq. in.)



TERMINAL MARKER DETAILS
 Color: Black / Yellow reflectorized

REFLECTOR AND TERMINAL MARKER PLACEMENT

FILE NAME =	USER NAME = santiaogct	DESIGNED -	REVISED -
pw:\IL\084EBIDINTEG.illinois.gov\PWIDOT\Documents\IDOT Offices\District 3\Projects\0366EDRW\Drawings\B3xxxx-sht-cover.dgn		REVISION	
PLOT SCALE = 25000.0000' / in.	CHECKED -	REVISION	
PLOT DATE = 3/21/2016	DATE -	REVISION	

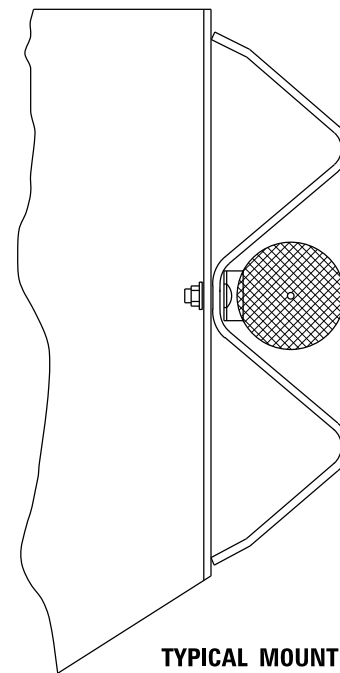
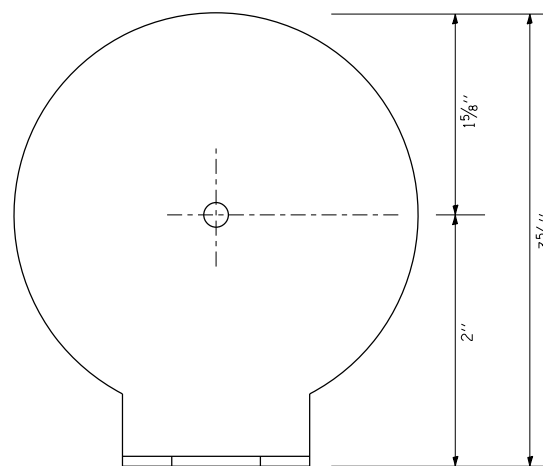
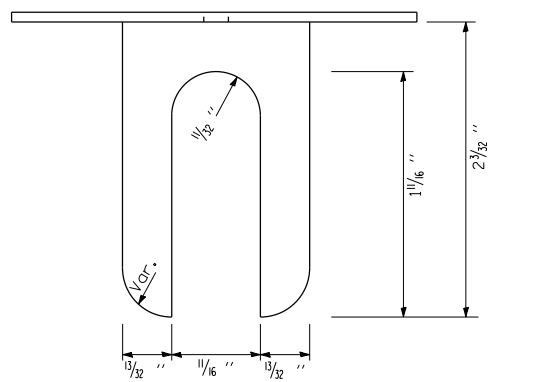
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

REFLECTOR AND TERMINAL MARKER PLACEMENT DETAIL

SCALE: _____ SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____

• DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 17

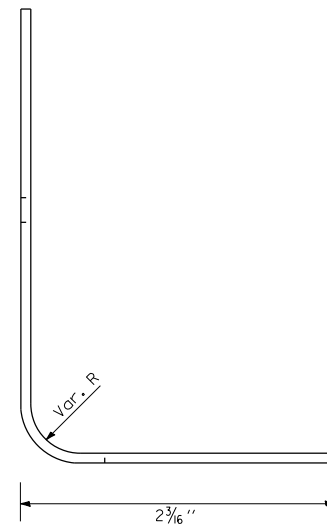
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	•	VAR.	43	7
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT			CONTRACT NO. 66E94	



REFLECTOR MARKER TYPE A

NOTES:

1. BRACKET IS TO BE FABRICATED FROM 12 GA. (MIN) STEEL GALVANIZED IN ACCORDANCE WITH AASHTO M III.
2. MIN. 3 REFLECTORS PER SIDE.
3. BRACKET "FOOT" SHALL BE PLACED BETWEEN THE BOLT HEAD AND THE PLATE WASHER (IF PRESENT).
4. ON THRIE BEAM RAIL, THE BRACKETS SHALL BE ATTACHED TO THE UPPER SPLICE BOLTS.
5. USE CRYSTAL COLOR, BI-DIRECTIONAL REFLECTORS USE AMBER (LEFT) AND CRYSTAL (RIGHT), MONODIRECTIONAL REFLECTORS ON INTERSTATES
6. ALL DIMENSIONS SHOWN ARE MINIMUM



REFLECTOR DETAIL

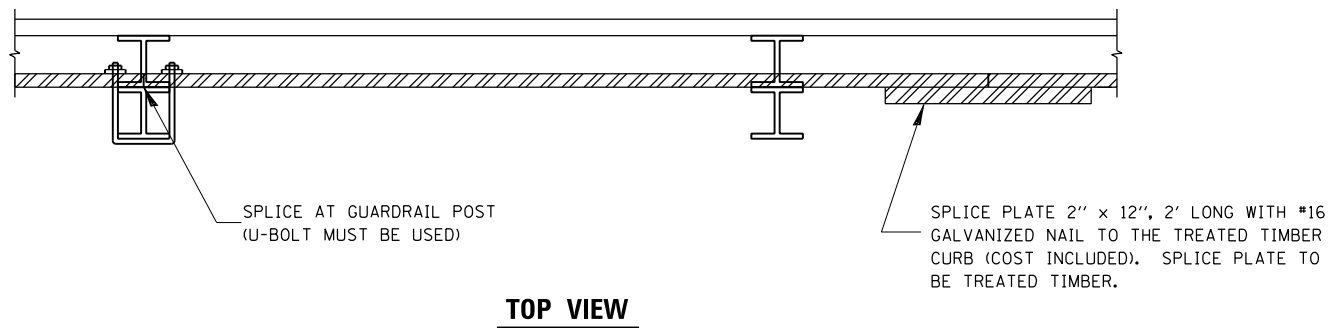
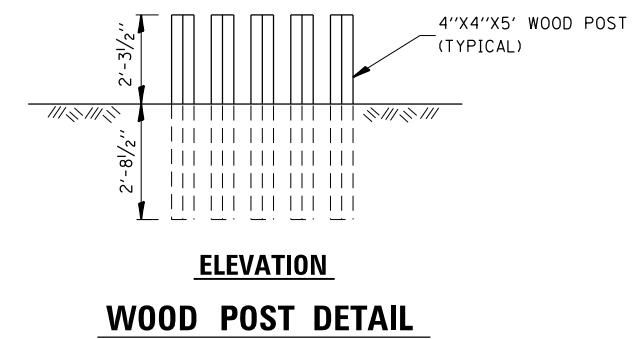
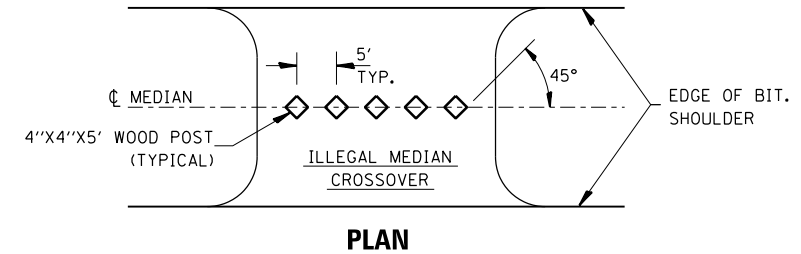
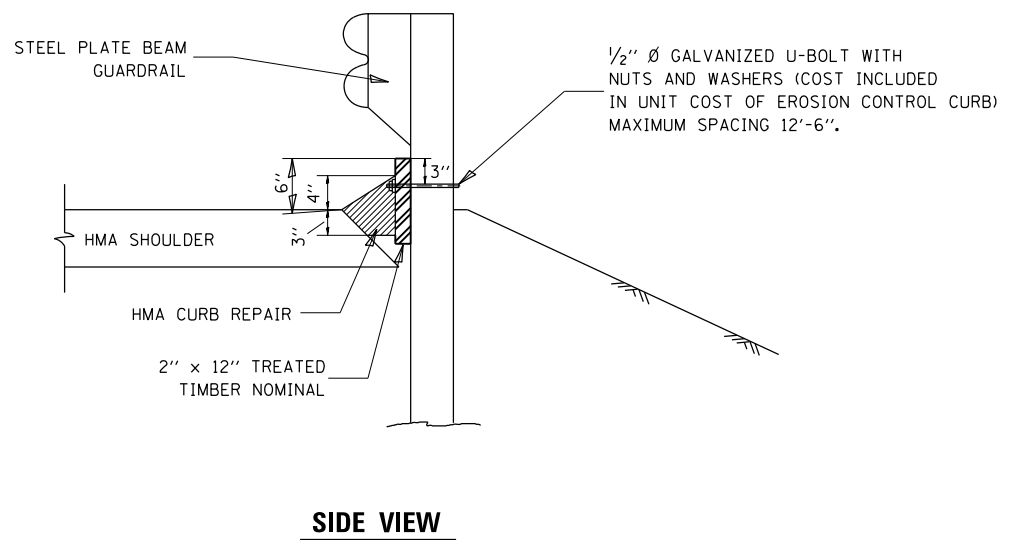
• DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 17

FILE NAME =	USER NAME = santiaogct	DESIGNED -	REVISED -
pw:\IL\084EBIDINTEG.illinois.gov\PWIDOT\Documents\IDOT Offices\District 3\Projects\0366\DRAWING\B3xxxxx-sht-cover.dgn		CHECKED -	REVISED -
		DATE -	REVISED -

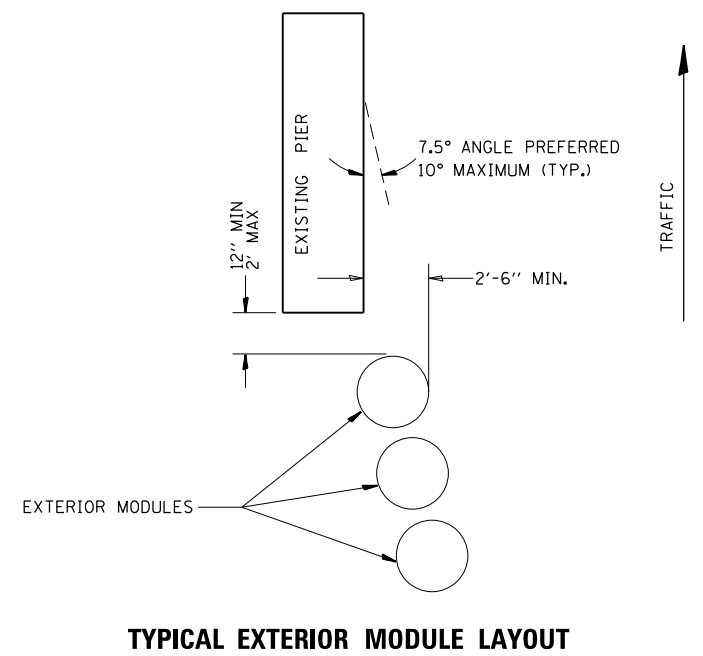
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REFLECTOR DETAIL	
SCALE: _____	SHEET NO. ___ OF ___ SHEETS
STA. _____	TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	•	VAR.	43	8
FED. ROAD DIST. NO. _____			CONTRACT NO. 66E94	
ILLINOIS FED. AID PROJECT				



IMPACT ATTENUATOR LAYOUT PLAN



- NOTES:**
1. THE PAY ITEM "REPLACE IMPACT ATTENUATORS, (NON-REDIRECTIVE), TEST LEVEL 3" HAS BEEN INCLUDED TO REPLACE INDIVIDUAL DAMAGED SAND MODULES.
 2. REPLACEMENT MODULES SHALL MATCH THE KIND OF MODULES THAT ARE REMAINING.
 3. IMPACT ATTENUATORS SHALL BE IN ACCORDANCE WITH SECTION 643 FOR IMPACT ATTENUATORS, AND WITH STANDARD 643001.
 4. THIS SHEET SHOWS THE LAYOUT INFORMATION FOR REPLACEMENT OF SAND MODULES (IMPACT ATTENUATORS) AT A TYPICAL INTERSTATE LOCATION.
 5. ADJACENT SAND MODULE IMPACT ATTENUATORS THAT ARE NOT DAMAGED, BUT HAVE BEEN SHIFTED LATERALLY FROM THEIR ORIGINAL POSITION SHALL BE REALIGNED OR MOVED BACK TO THEIR ORIGINAL POSITION, AS DIRECTED BY THE ENGINEER. REALIGNMENT OR MOVING OF ADJACENT UNDAMAGED MODULES SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF REPLACEMENT. THE WORK TO REALIGN OR SHIFT UP TO 2 MODULES SHALL BE INCLUDED WITH EACH REPLACED SAND MODULE IMPACT ATTENUATOR.

NOTE:
THE TREATED TIMBER SHALL BUTT TOGETHER AT THE GUARDRAIL POST OR SPLICED AS SHOWN ON THE DETAIL.

THE TREATED TIMBER SHALL BE TREATED IN ACCORDANCE TO ARTICLE 1007.12 AND ALL PRESERVATIVES SPECIFIED IN THE ARTICLE WILL BE ALLOWED.

THE PRICE FOR EROSION CONTROL CURB SHALL INCLUDE THE U-BOLTS ATTACHING THE TREATED TIMBER TO THE GUARDRAIL POSTS, TREATED TIMBER, AND THE NECESSARY GRADING TO COMPLETE THIS WORK.

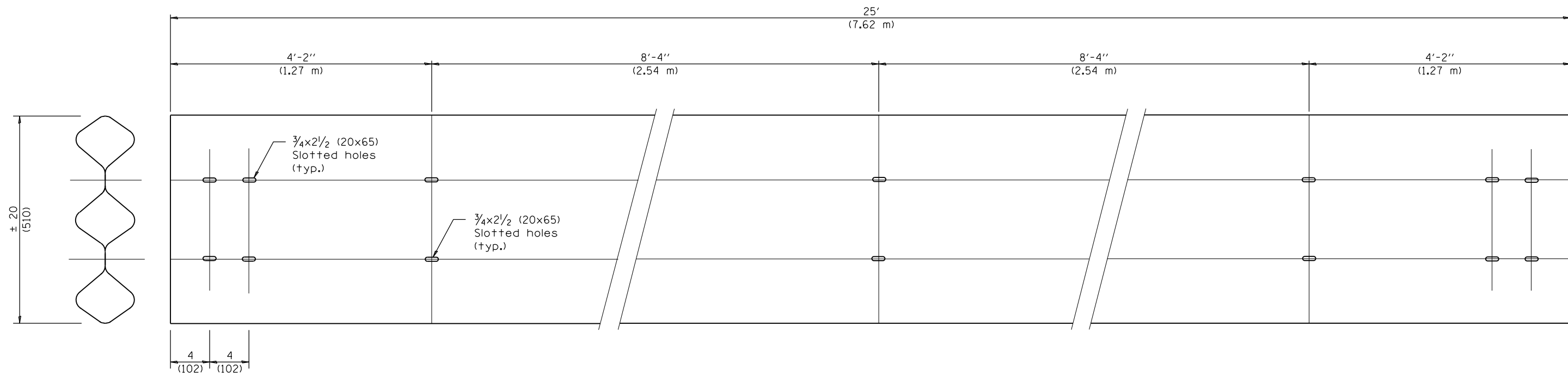
HMA CURB REPAIR SHALL BE MEASURED AND PAID FOR AT CONTRACT UNIT PRICE PER TON.

HMA CURB REPAIR SHALL BE IN ACCORDANCE WITH SECTION 408 OF THE STANDARD SPECIFICATIONS.

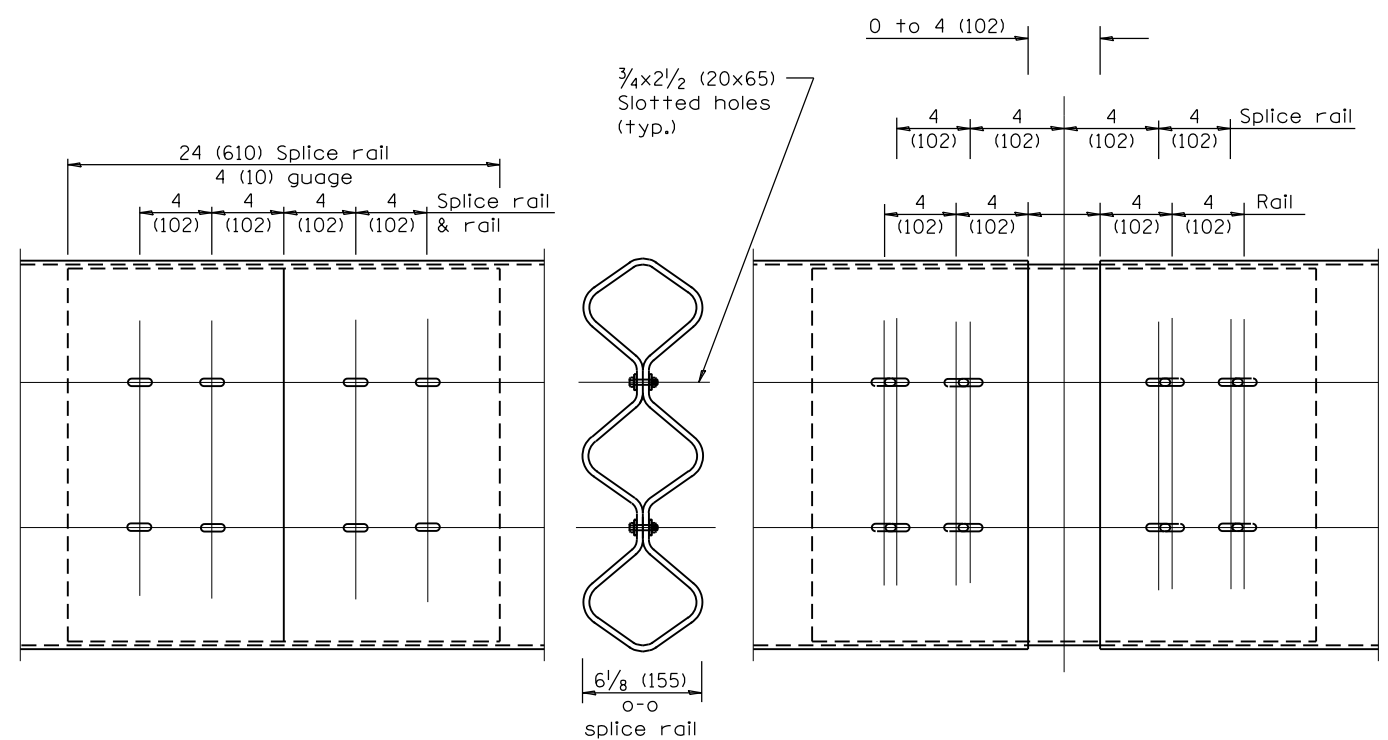
TIMBER CURB & HMA CURB REPAIR

• DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 17

FILE NAME =	USER NAME = braboypc	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TIMBER CURB & BITUMINOUS CURB REPAIR & GUARD POST DETAIL & IMPACT ATTENUATOR PLAN	F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ci:\pw\work\p1dot\braboypc\0470854\03xxxx-sht-cover.dgn	PLOT SCALE = 250000.0000 ' / in.	DRAWN -	REVISED -			VAR.	•	VAR.	43	9	
	PLOT DATE = 3/22/2016	CHECKED -	REVISED -			CONTRACT NO. 66E94					
		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
				SCALE: _____		SHEET NO. ____ OF ____ SHEETS		STA. _____ TO STA. _____			

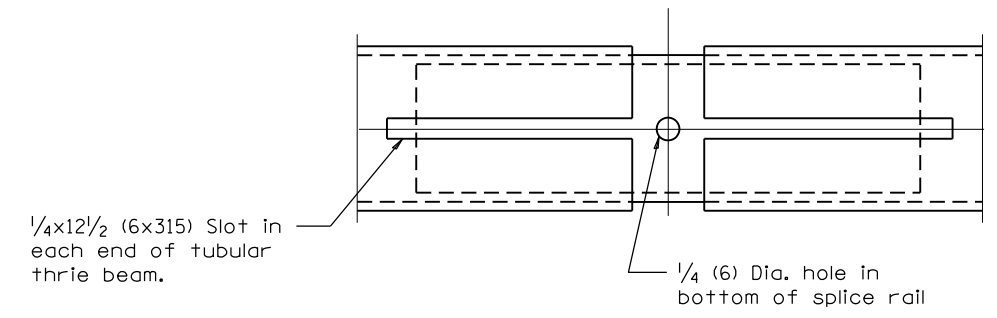


TUBULAR THRIE BEAM FOR INTERNAL SPLICE JOINT



INTERNAL SPLICE JOINT

INTERNAL EXPANSION SPLICE JOINT



BOTTOM VIEW OF INTERNAL EXPANSION SPLICE JOINT

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.

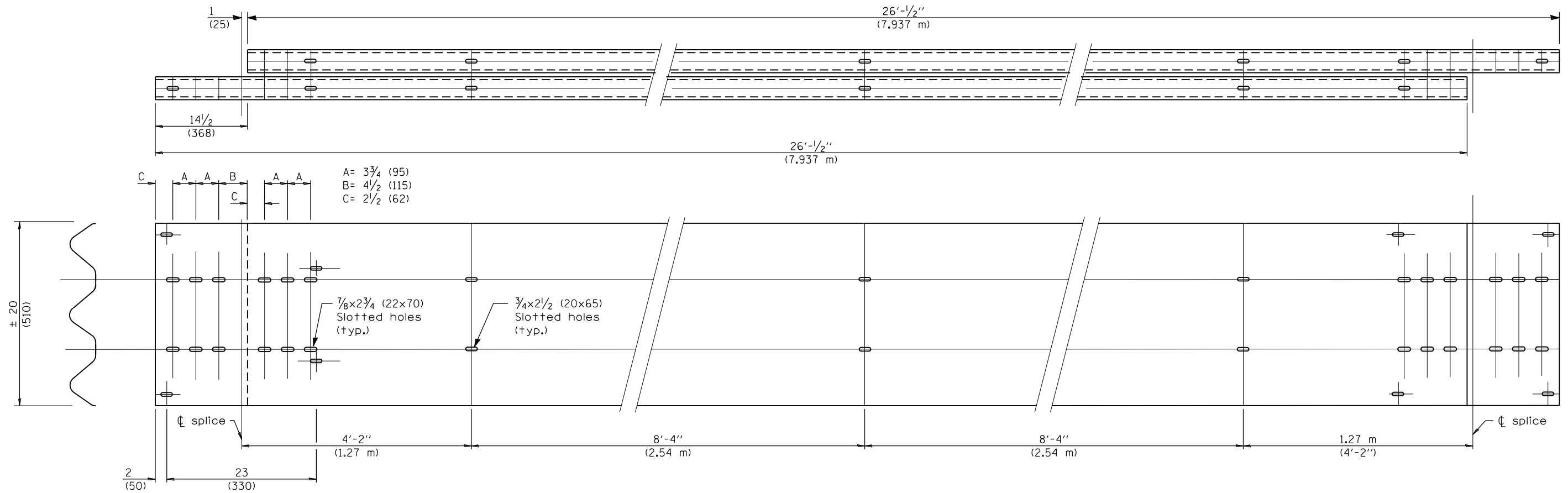
FILE NAME =	USER NAME = santiaogco	DESIGNED -	REVISED -
pw:\IL\084EBIDINTEG.illinois.gov\PIDOT\Documents\DOT Offices\District 3\Projects\0366EDRAWING\Date\B3xxxxx-sht-cover.dgn		CHECKED -	REVISED -
Default	PLOT DATE = 3/21/2016	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

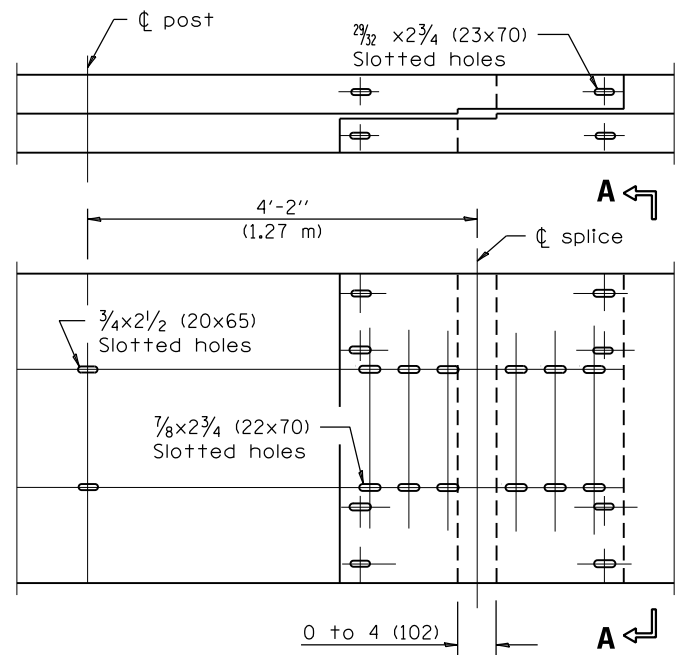
**TUBULAR THRIE BEAM
RETROFIT RAIL FOR BRIDGES**

SCALE: _____ SHEET 1 OF 3 SHEETS STA. _____ TO STA. _____

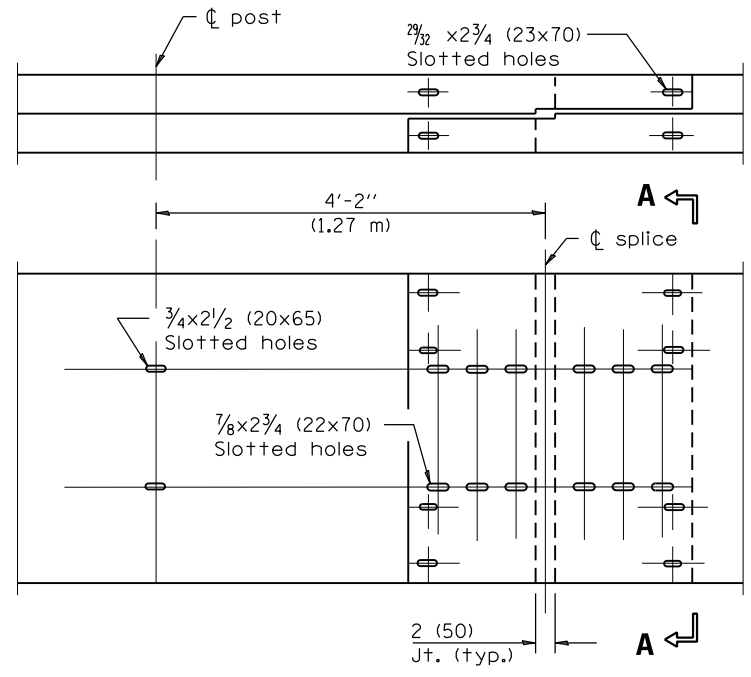
• DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 17			
F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS
VAR.	*	VAR.	43
			SHEET NO. 10
CONTRACT NO. 66E94			
ILLINOIS FED. AID PROJECT			



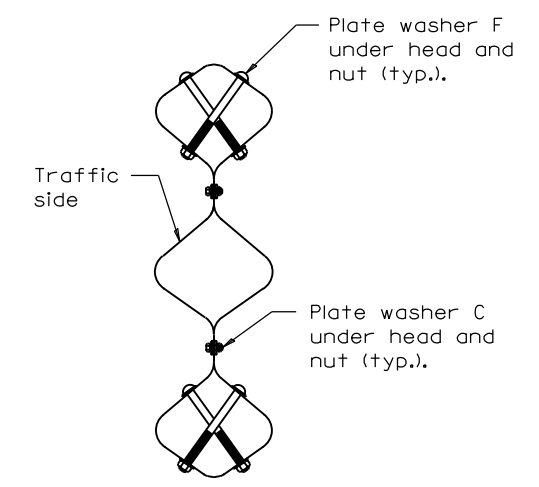
TUBULAR THRIE BEAM FOR LAP SPLICE JOINT



LAP EXPANSION SPLICE JOINT

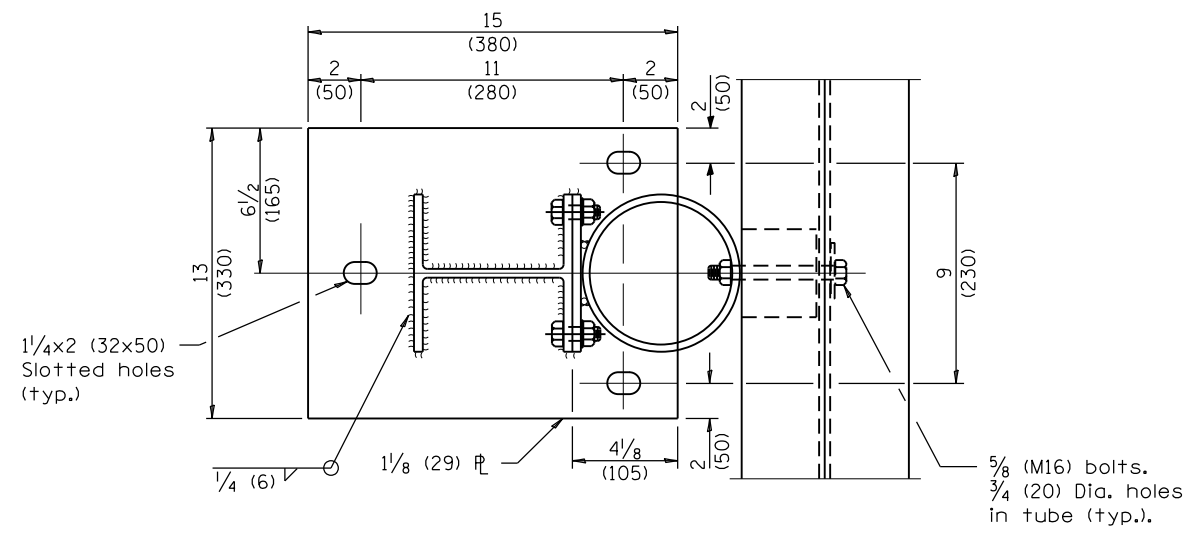


LAP SPLICE JOINT

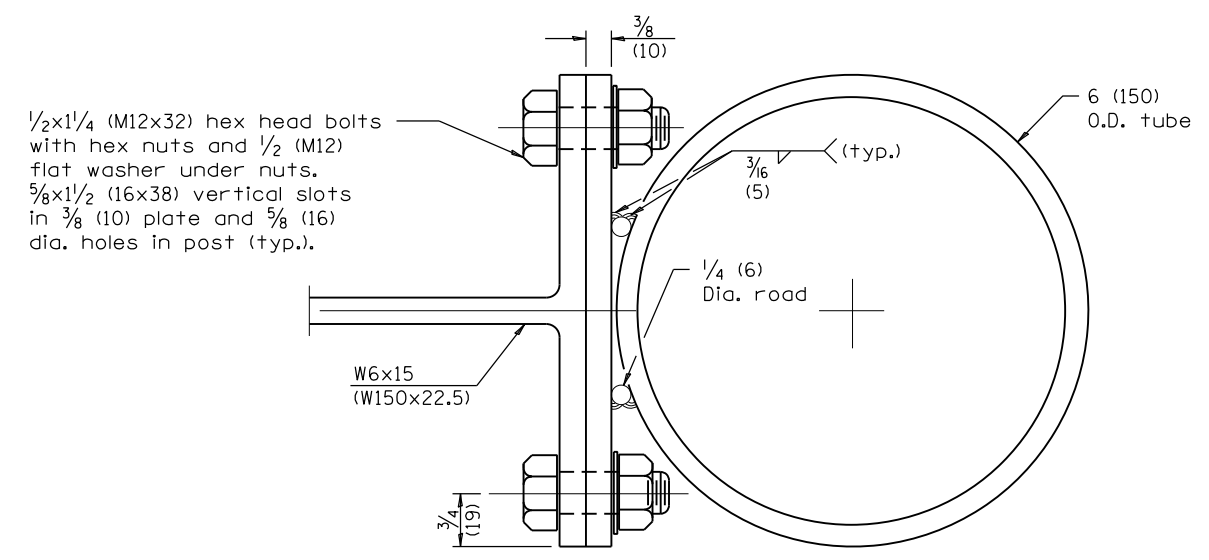


SECTION A-A

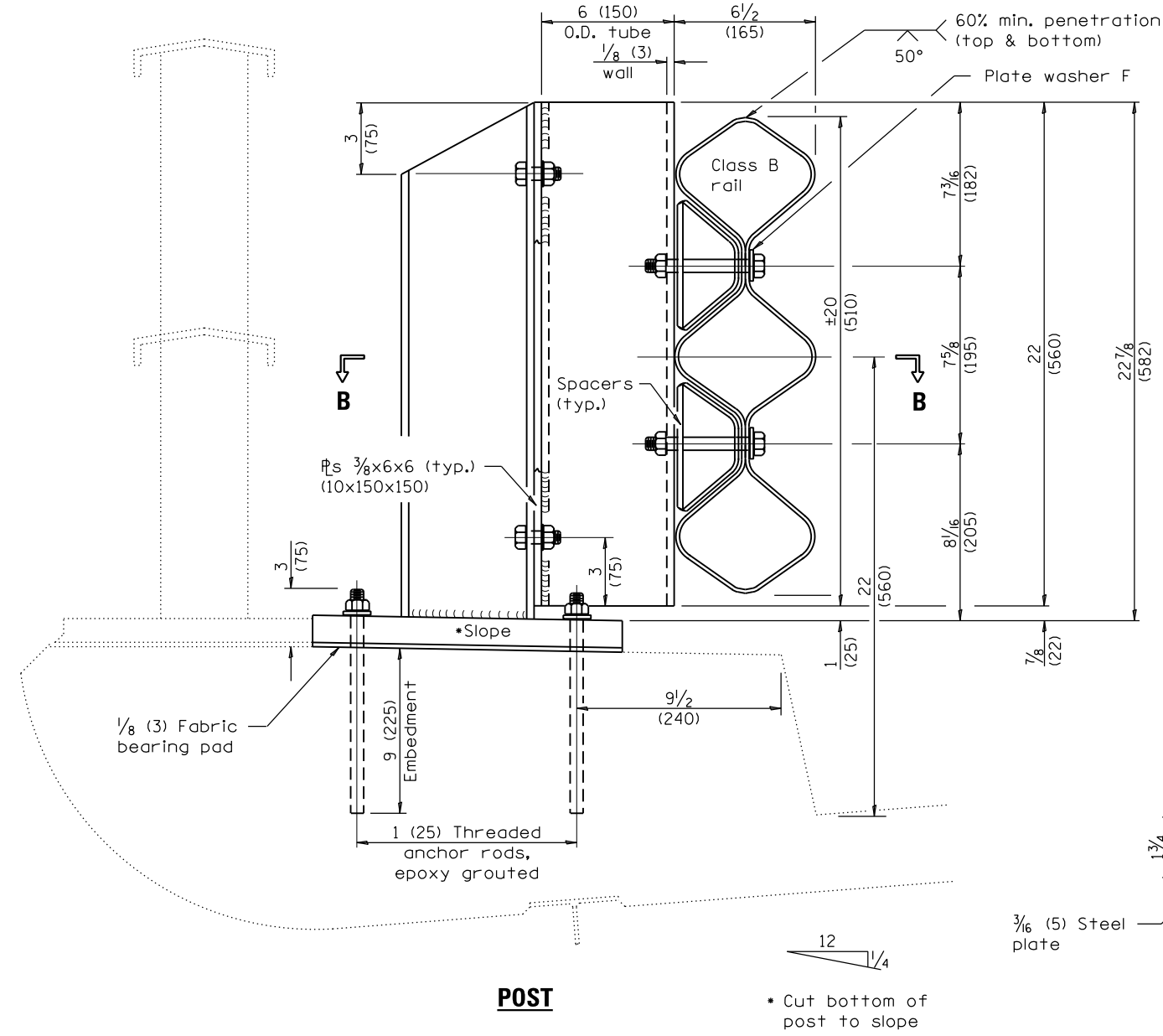
FILE NAME =	USER NAME = santiaogco	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TUBULAR THRIE BEAM RETROFIT RAIL FOR BRIDGES		• DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 17			
pw:\IL\084EBIDINTEG.illinois.gov\PWIDOT\Documents\DOT Offices\District 3\Projects\0366\DRAWING\0366xxx-sht-cover.dgn		CHECKED -	REVISED -		F.A. RTÉ. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
PLOT SCALE = 250000.0000 "/> in.		DATE -	REVISED -		VAR.	VAR.	43	11	CONTRACT NO. 66E94	
Default		PLOT DATE = 3/21/2016	REVISED -		SCALE: _____	SHEET 2 OF 3 SHEETS	STA. _____	TO STA. _____	ILLINOIS FED. AID PROJECT	



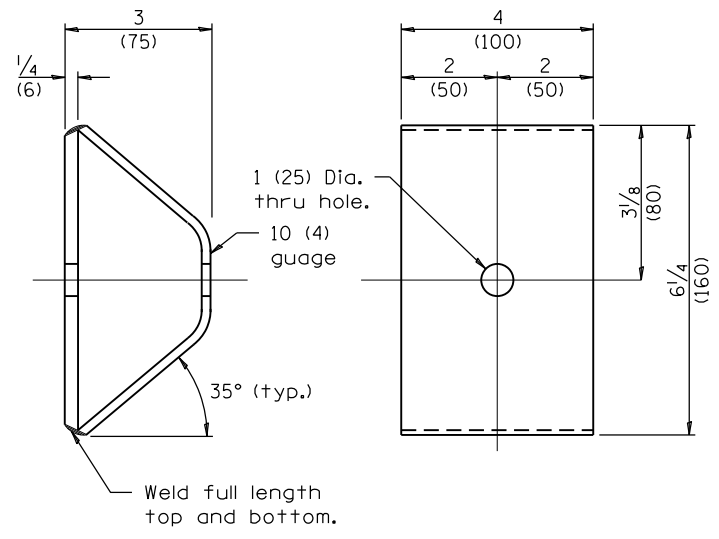
SECTION B-B



TUBE TO POST ATTACHMENT



POST



SPACER

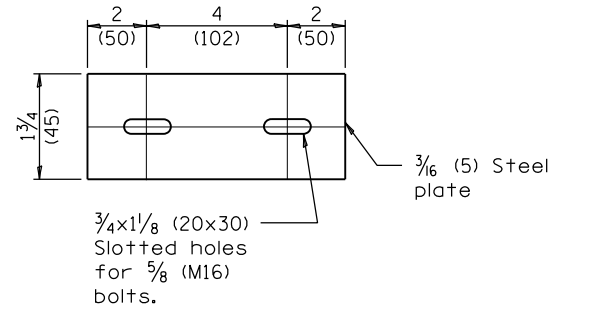


PLATE WASHER B

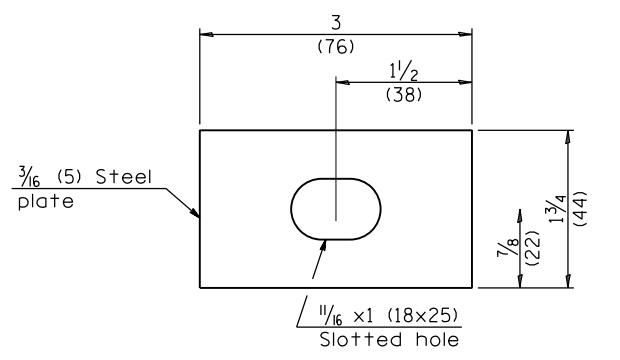


PLATE WASHER F

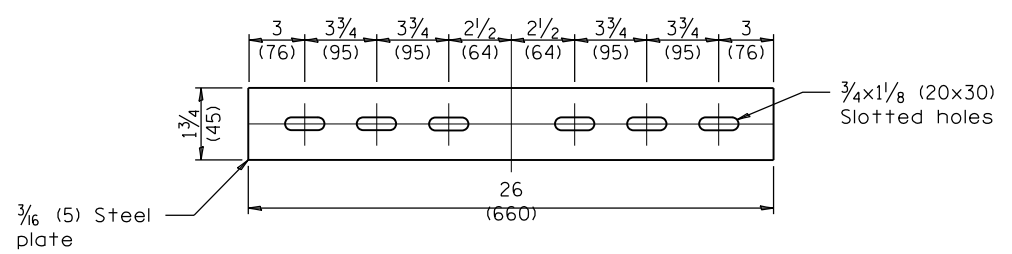


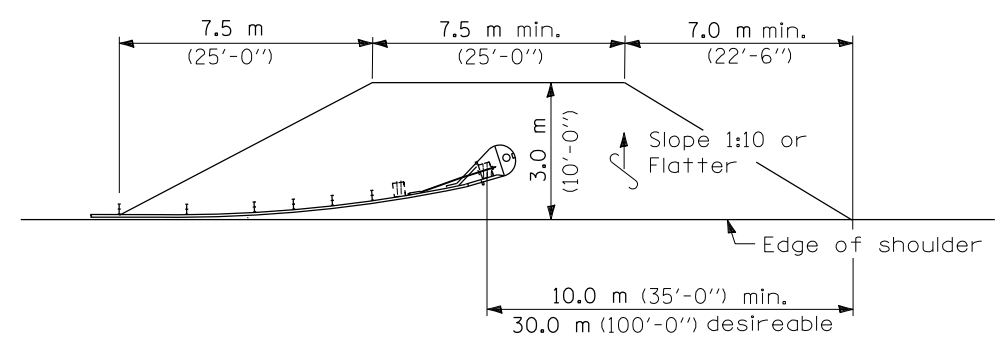
PLATE WASHER C

FILE NAME =	USER NAME = santiaogct	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TUBULAR THRIE BEAM RETROFIT RAIL FOR BRIDGES		* DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 17	
pw:\IL\084EBIDINTEG\Illinois.gov\PIWIDOT\Documents\IDOT Offices\District 3\Projects\0366\DRAWING\Date\B3xxxxx-sht-cover.dgn		CHECKED -	REVISED -		F.A. RTÉ. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default		DATE -	REVISED -		VAR.	VAR.	43	12
					CONTRACT NO. 66E94			

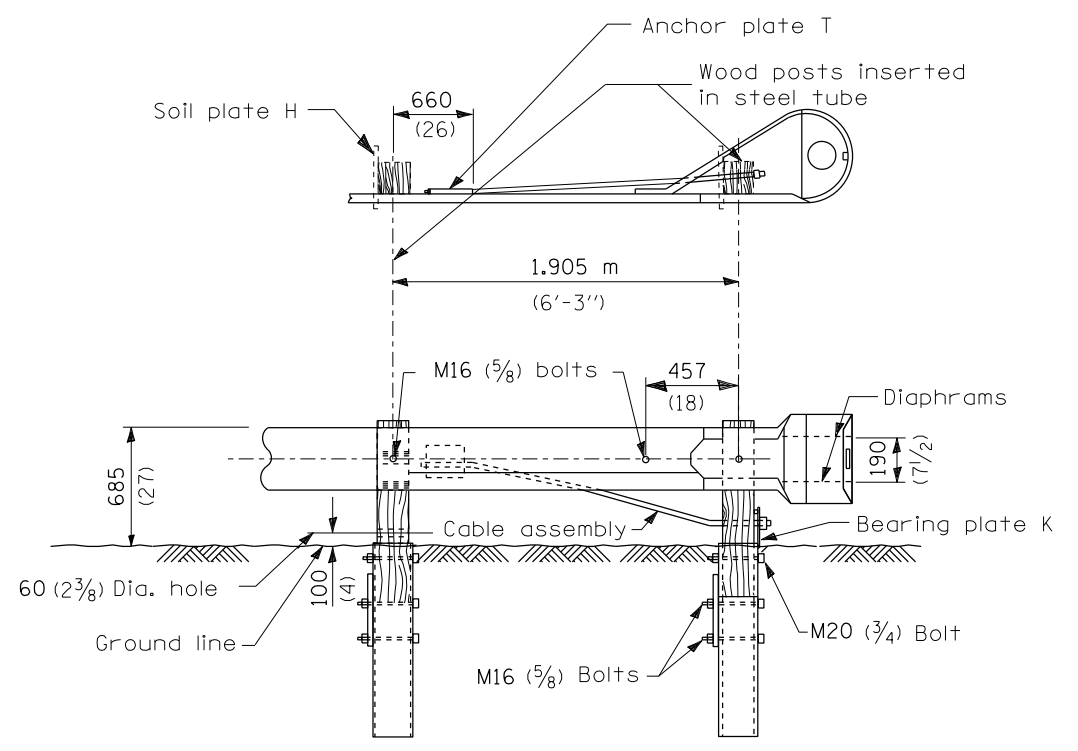
SCALE: _____ SHEET 3 OF 3 SHEETS STA. _____ TO STA. _____ ILLINOIS FED. AID PROJECT

OFFSETS TO FACE OF RAIL

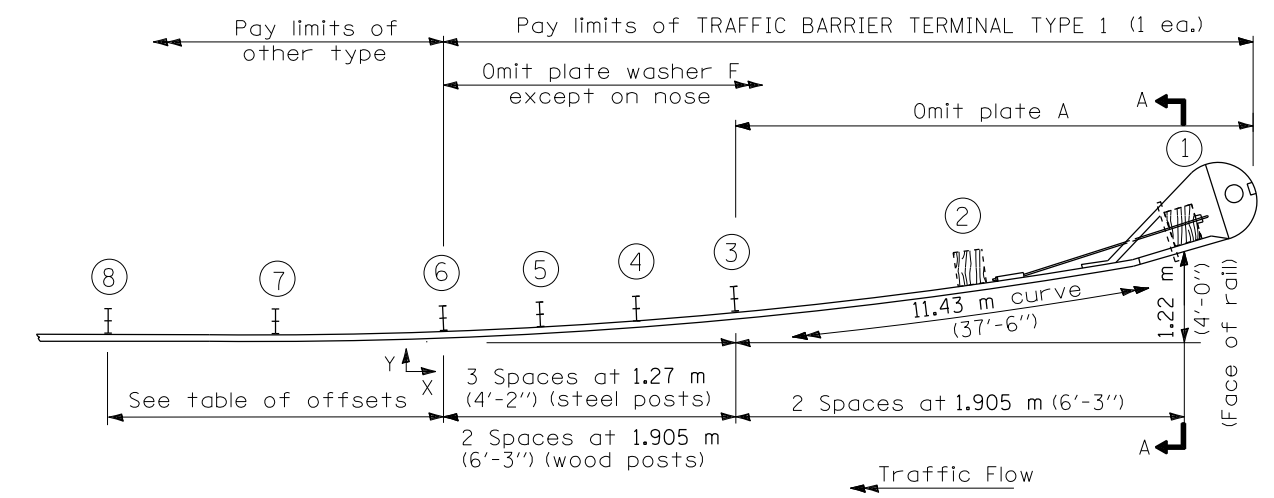
Post	X _m (ft)	Y _m (ft)
①	11.345 (37.22)	1.22 (4.0)
②	9.475 (31.09)	0.850 (2.79)
③	7.595 (24.92)	0.545 (1.79)
④	6.335 (20.79)	0.380 (1.25)
⑤	5.070 (16.64)	0.245 (0.80)
⑥	3.805 (12.49)	0.135 (0.45)
⑦	1.905 (6.25)	0.035 (0.11)
⑧	0 (0.00)	0 (0.00)



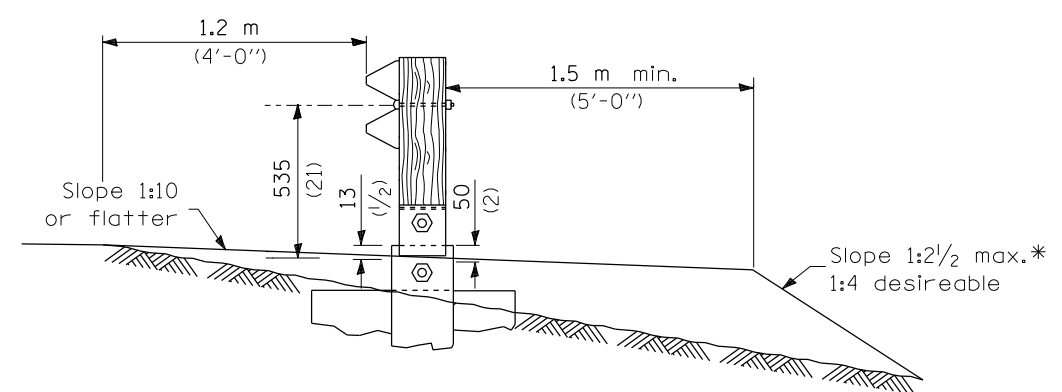
SHOULDER WIDENING TRANSITION



WOOD BREAKAWAY POSTS
TUBULAR STEEL FOUNDATIONS



PLAN



SECTION A-A

* If fill height exceeds 1.5 m (5'-0'') use 1:3 max.

**DETAIL INCLUDED
FOR REPAIR ONLY**

GENERAL NOTES

See Standard 630001 for details of guardrail not shown.

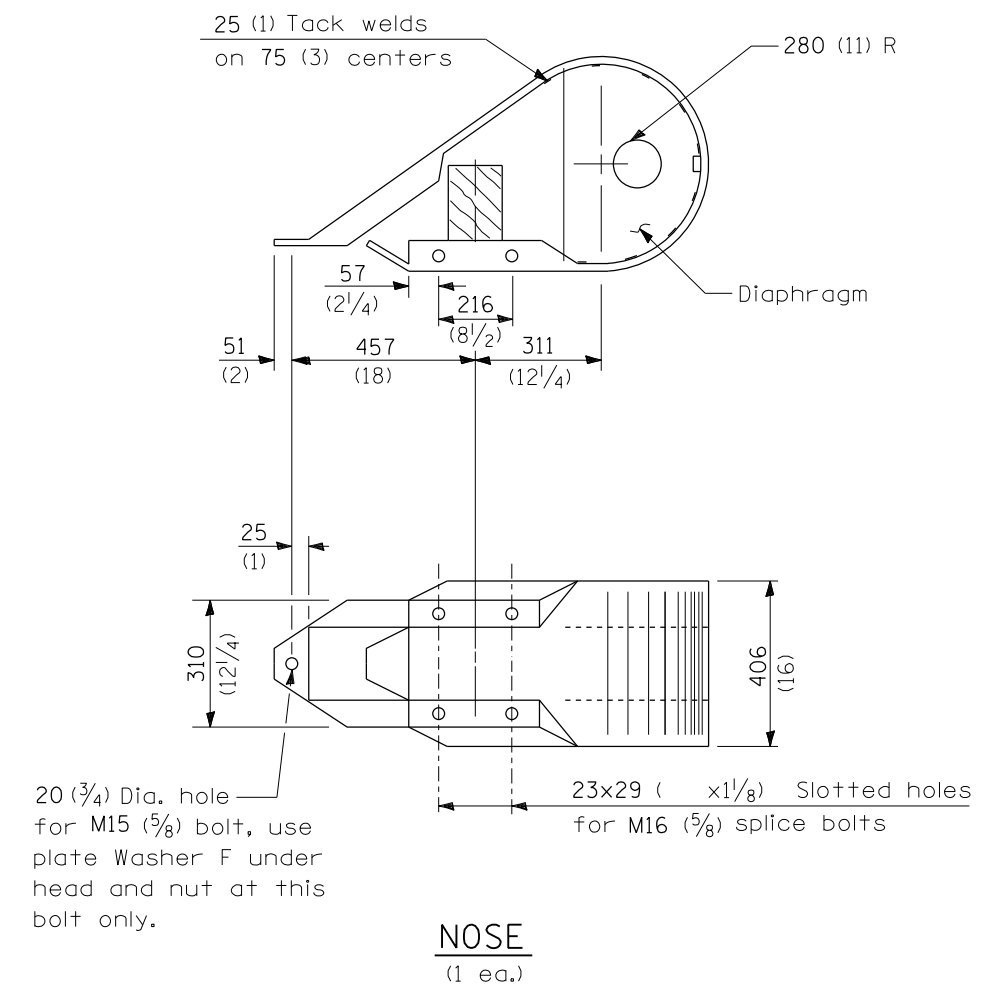
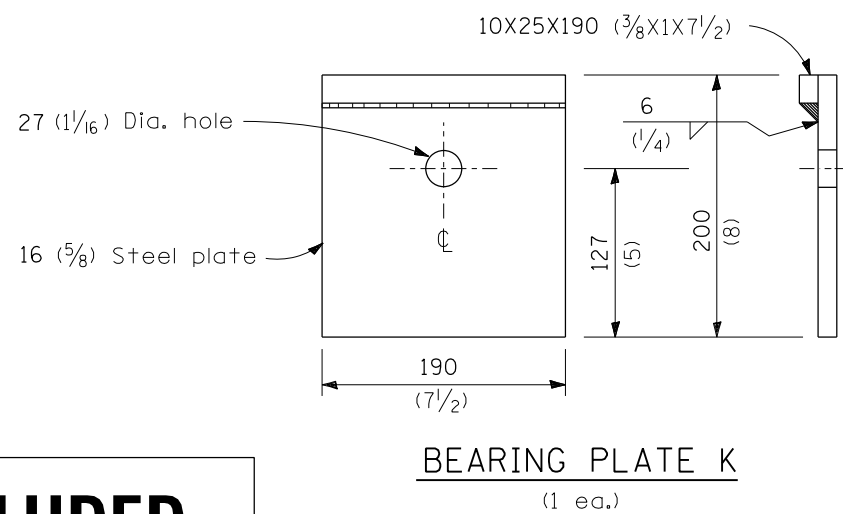
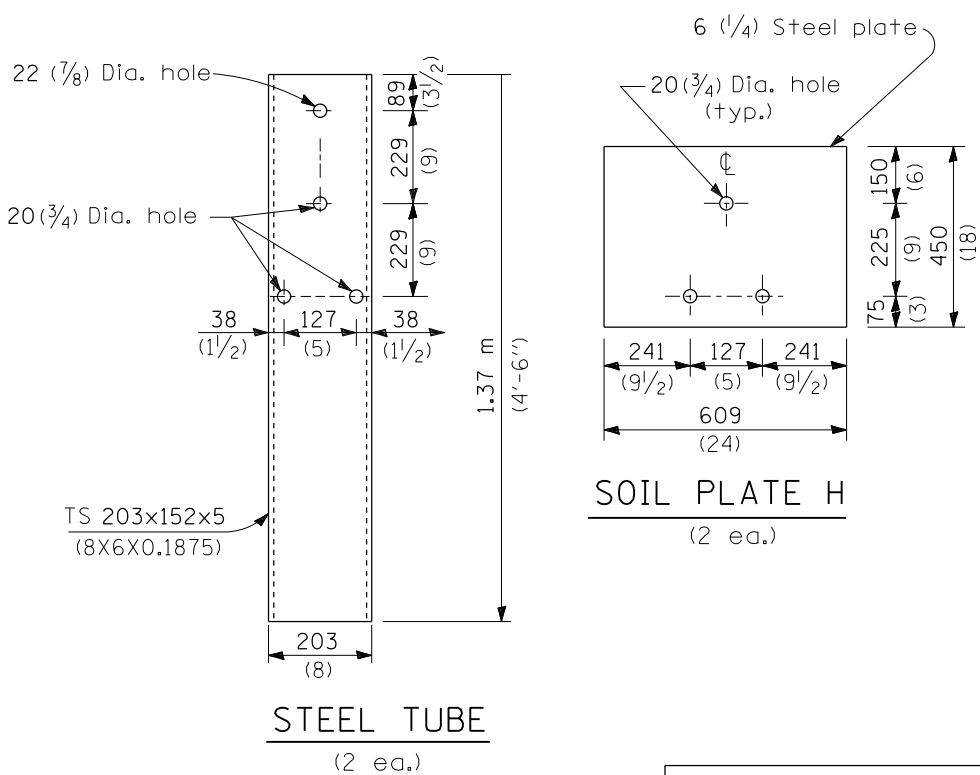
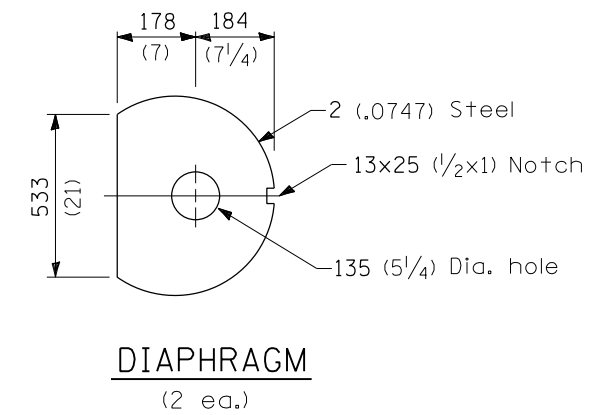
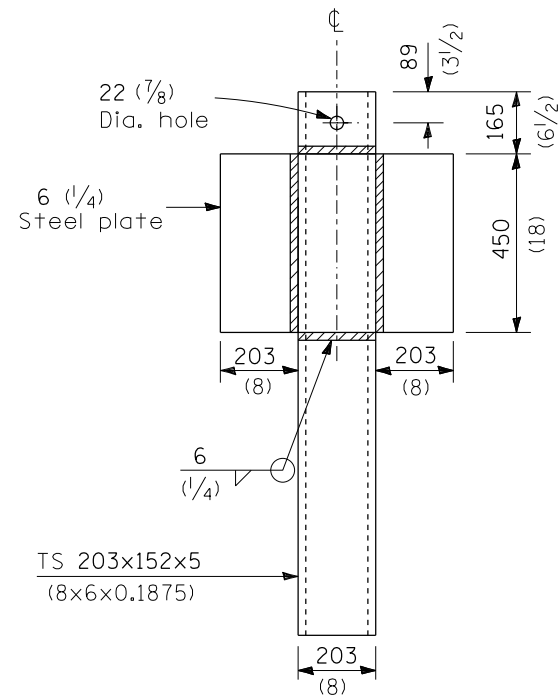
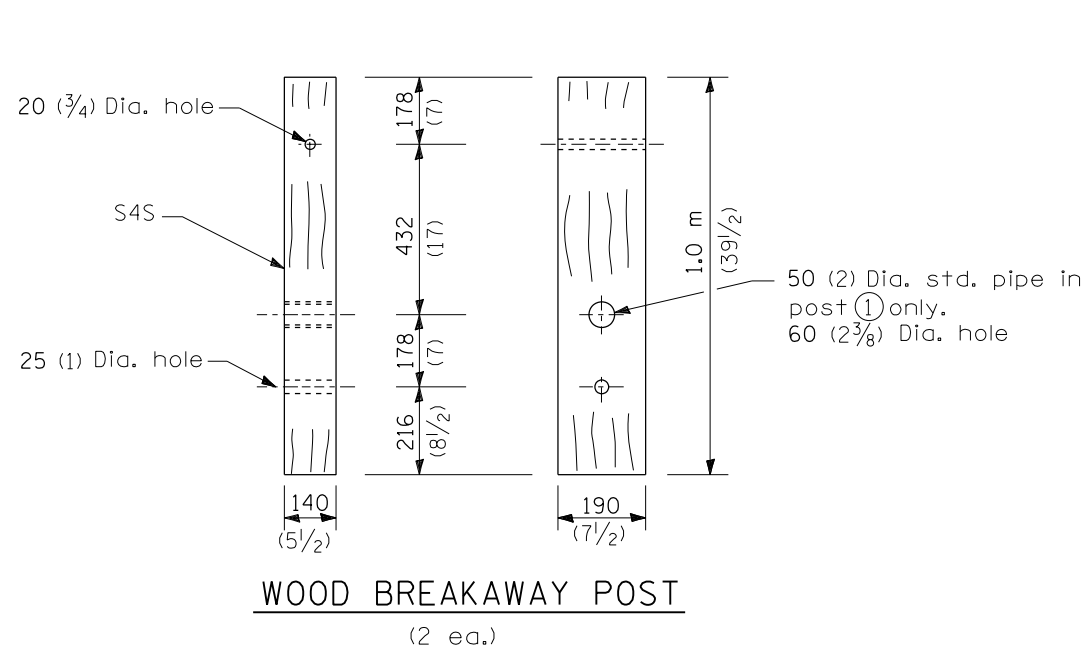
Posts at location 1 & 2 shall be wood breakaway posts. Posts other than 1 & 2 may be either standard wood posts or steel posts, at the option of the Contractor. If standard wood posts are used, one post shall be located midway between and in lieu of posts 4 & 5. The offset (Y) for this post shall be 300 mm (12 inches).

A two-piece assembly may be substituted for the one piece nose shown above.

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

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.



DETAIL INCLUDED FOR REPAIR ONLY

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

• DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 17

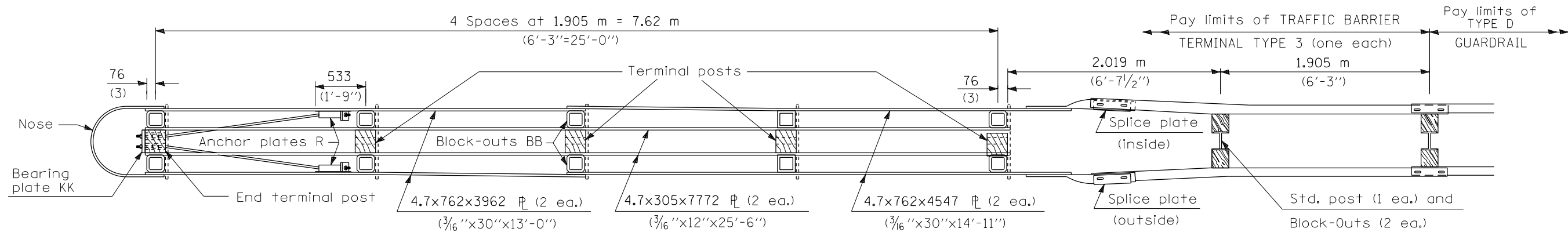
FILE NAME =	USER NAME = santiaogct	DESIGNED -	REVISED -
pw:\IL\084EBIDINTEG.illinois.gov\PWIDOT\Documents\IDOT Offices\District 3\Projects\0366EDRAWING\B3xxxxx-sht-cover.dgn		REVISED -	REVISED -
PLOT SCALE = 250000.0000 / in.	CHECKED -	REVISED -	REVISED -
PLOT DATE = 3/21/2016	DATE -	REVISED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

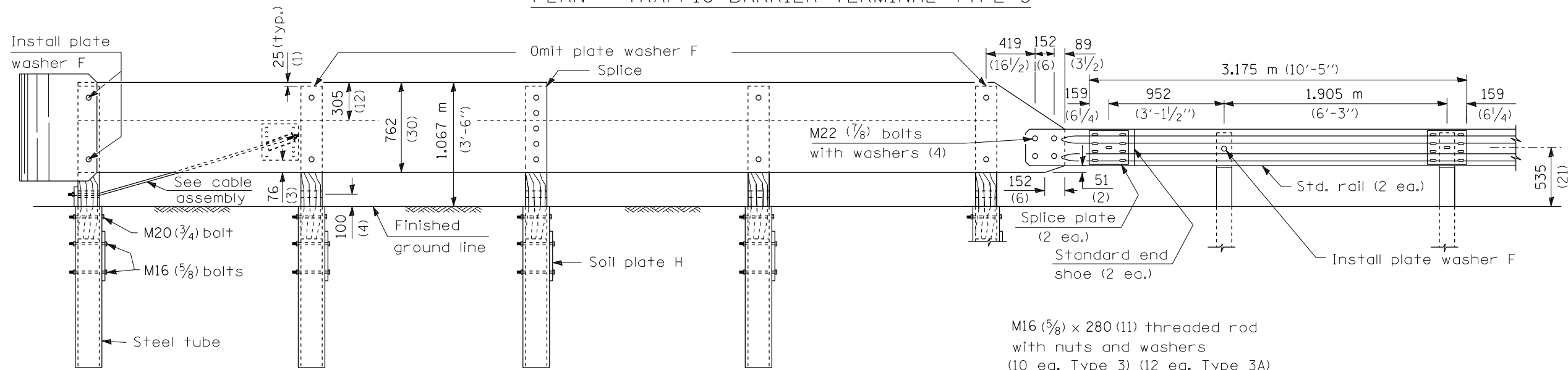
TRAFFIC BARRIER TERMINAL TYPE 1
STANDARD B.L.R. 23

SCALE: _____ SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____

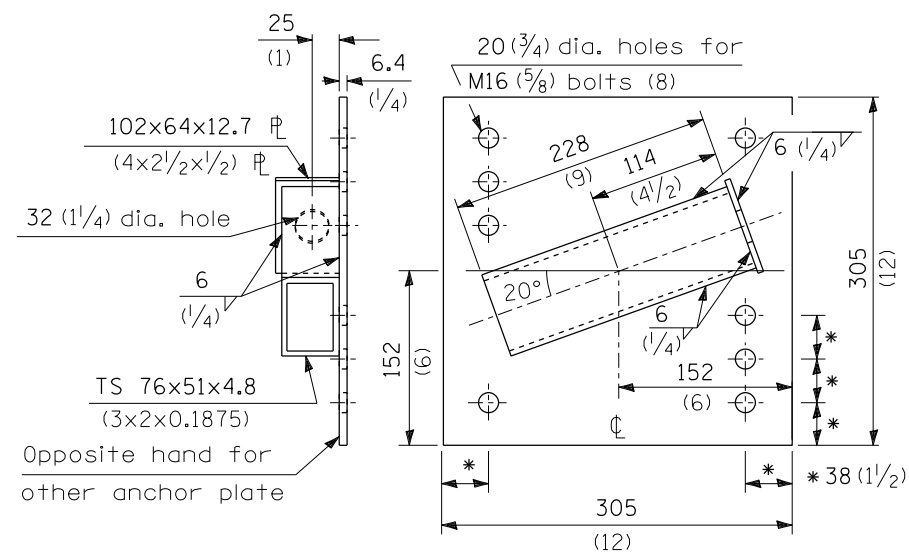
F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	•	VAR.	43	14
CONTRACT NO. 66E94				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				



PLAN - TRAFFIC BARRIER TERMINAL TYPE 3

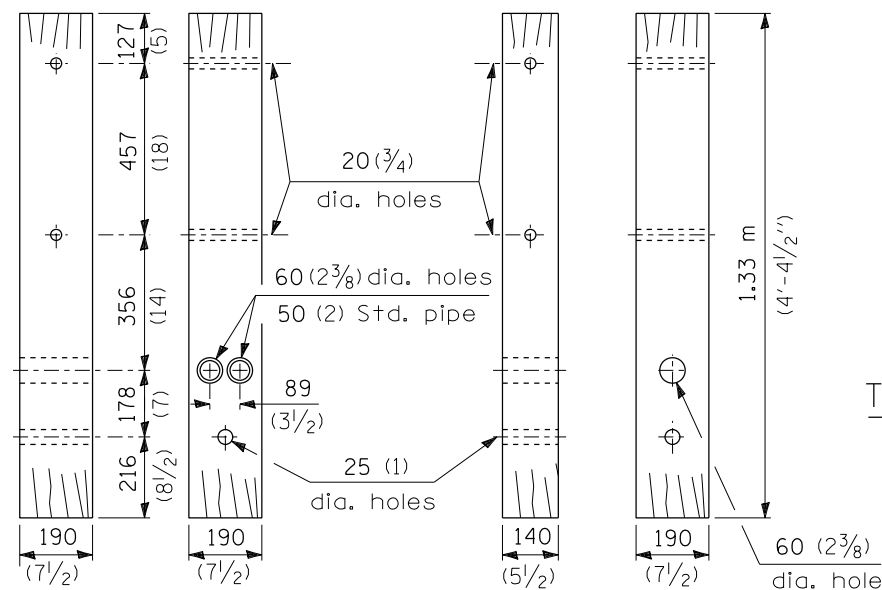


ELEVATION



ANCHOR PLATE R

(1 ea. lt. hd. & 1 ea. rt. hd.)

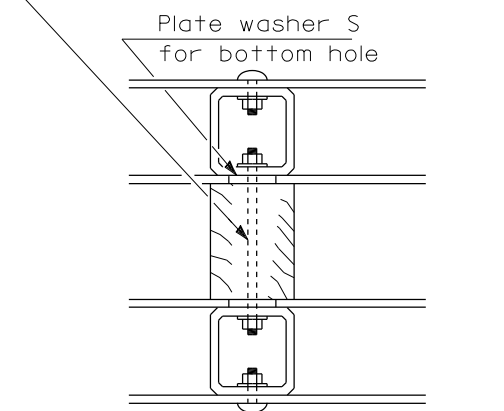


END TERMINAL POST

(1 ea.)

TERMINAL POST

(4 ea. Type 3)
(5 ea. Type 3A)



TYPICAL BLOCK-OUT/POST ATTACHMENT

GENERAL NOTES

All holes in Posts, Block-Outs and Plates shall be 20 mm (3/4") diameter unless otherwise noted.

See Standard 630001 for details of guardrail elements not shown.

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

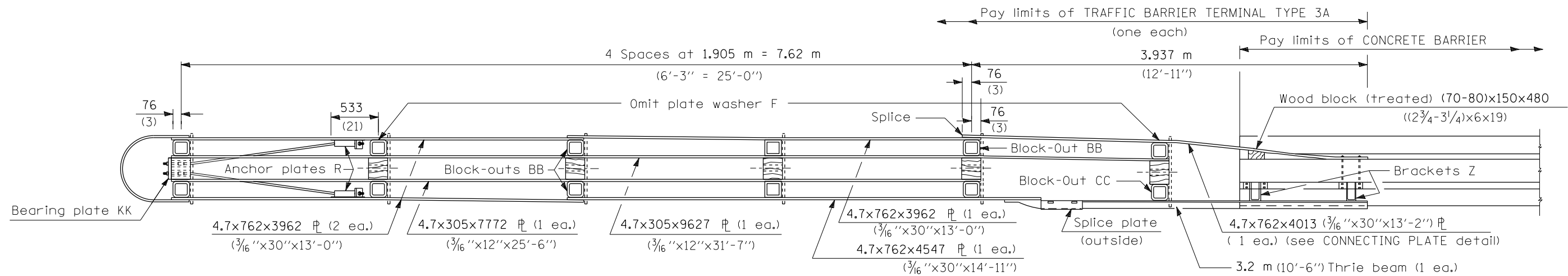
Block-Out AA shall be used at all locations unless otherwise noted.

DETAIL INCLUDED FOR REPAIR ONLY

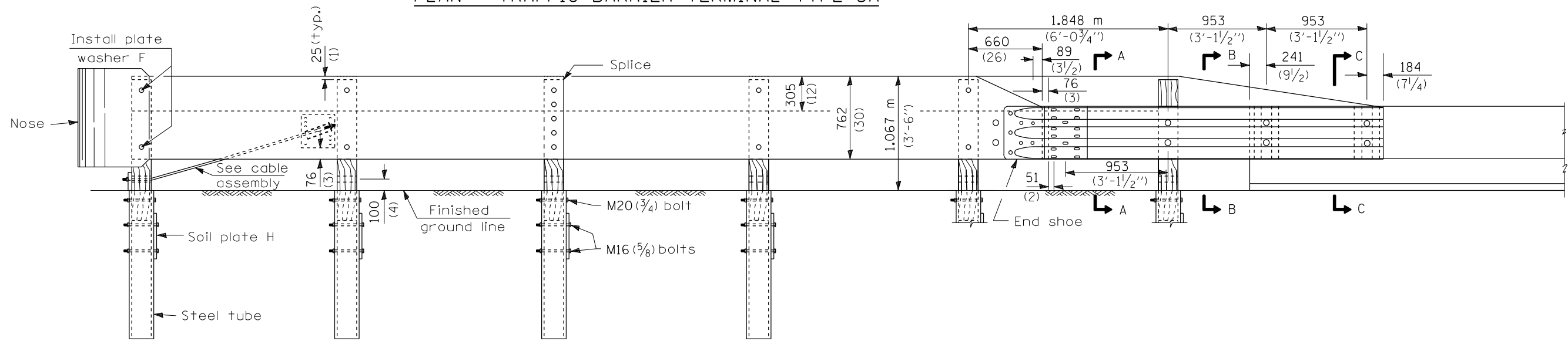
All dimensions are in millimeters (inches) unless otherwise shown.

• DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 17

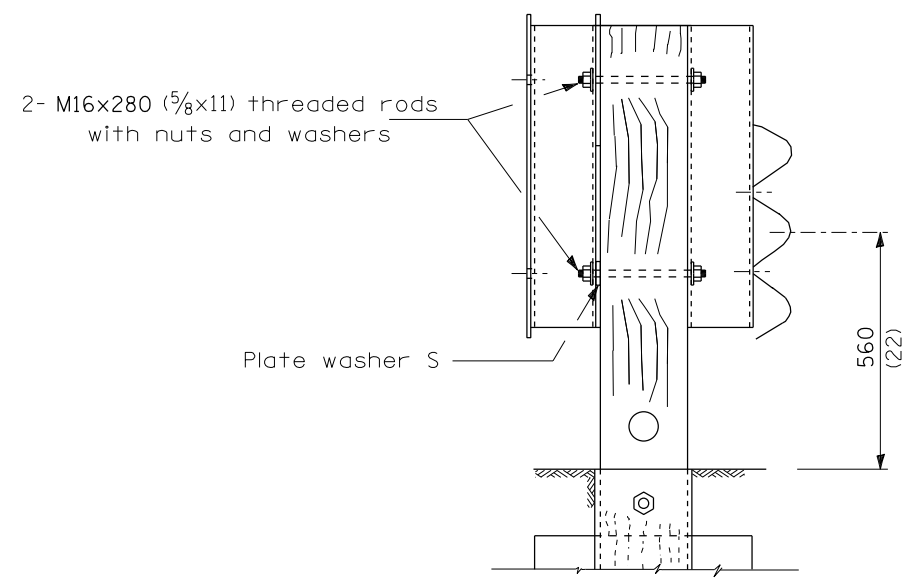
FILE NAME =	USER NAME = santiaogct	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC BARRIER TERMINAL TYPE 3 & 3A	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\IL\084EBIDINTEG.illinois.gov\PIW001\Documents\DOT Offices\District 3\Projects\036EDRAWING\B3xxxx-sht-cover.dgn		REVISOR -	REVISOR -			VAR.		VAR.	43	15	
PLOT SCALE = 250000.0000 "/ in.		CHECKED -	REVISOR -			CONTRACT NO. 66E94					
PLOT DATE = 3/21/2016		DATE -	REVISOR -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					



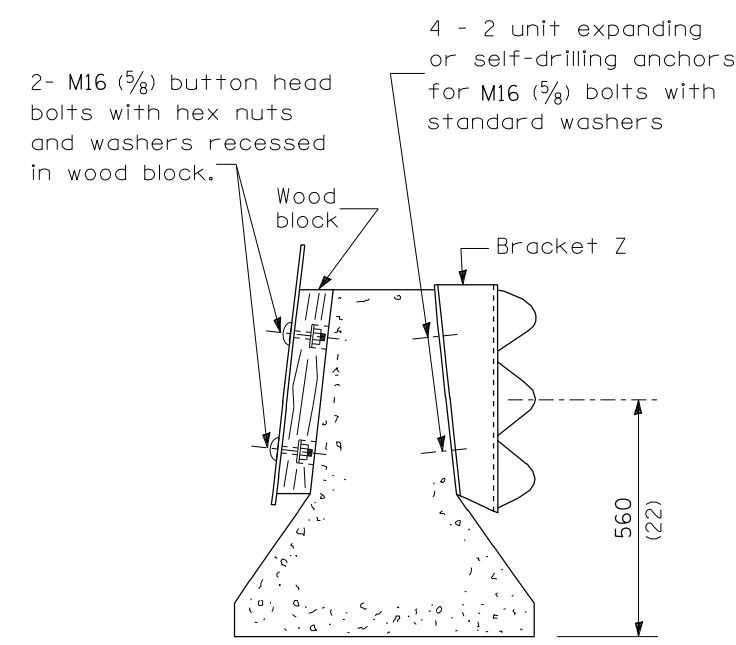
PLAN - TRAFFIC BARRIER TERMINAL TYPE 3A



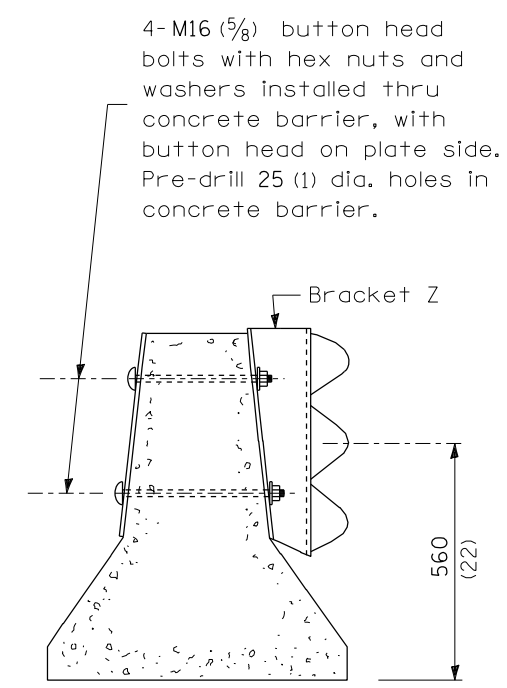
ELEVATION



SECTION A-A



SECTION B-B



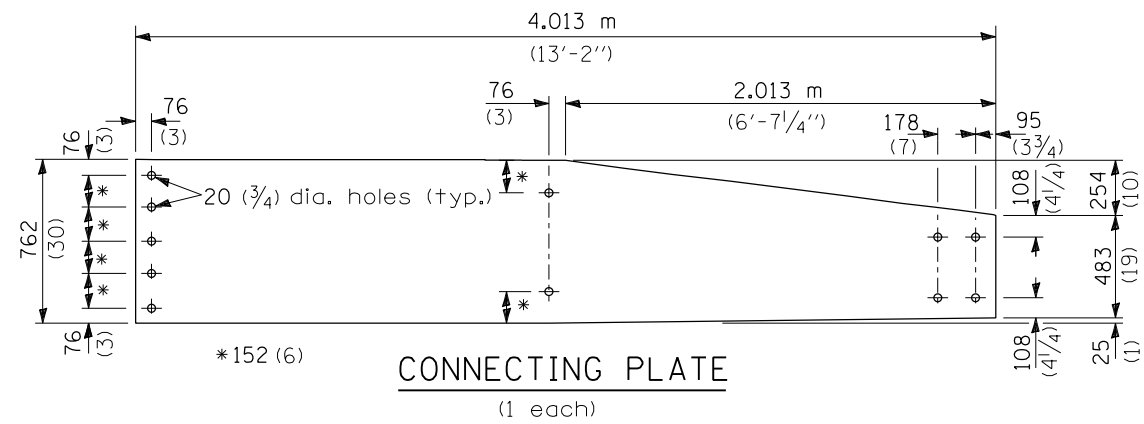
SECTION C-C

DETAIL INCLUDED FOR REPAIR ONLY

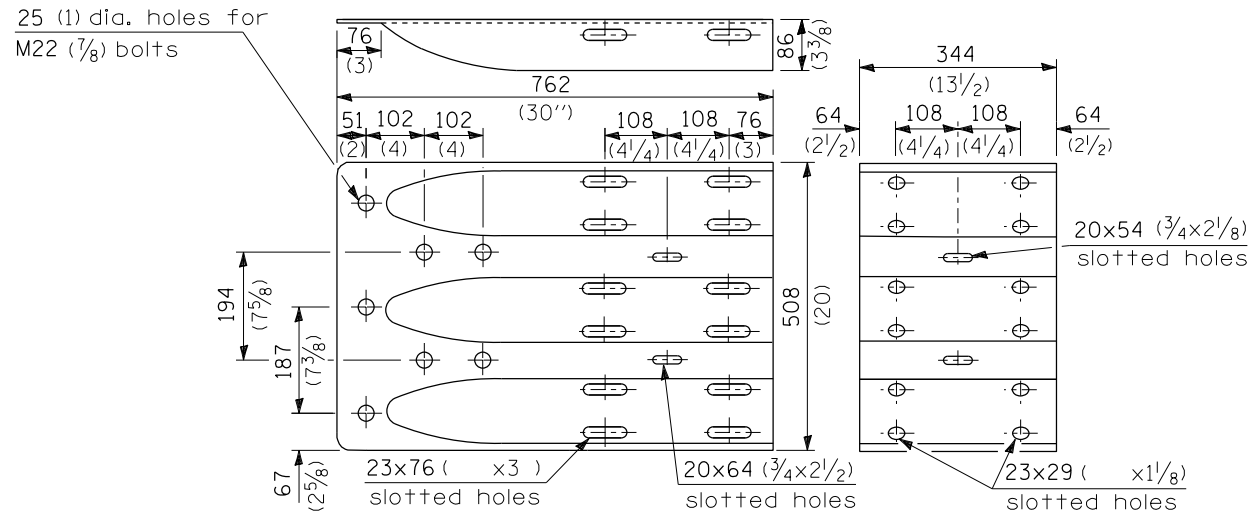
All dimensions are in millimeters (inches) unless otherwise shown.

FILE NAME =	USER NAME = santiaogct	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC BARRIER TERMINAL TYPE 3 & 3A	F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\IL\084EBIDINTEG.illinois.gov\PWIDOT\Documents\IDOT Offices\District 3\Projects\0366EDRAWING\B3xxxxx-sht-cover.dgn		CHECKED -	REVISED -			VAR.	*	VAR.	43	16	
PLOT SCALE = 250000.0000 / in.		DATE -	REVISED -			CONTRACT NO. 66E94					
PLOT DATE = 3/21/2016						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

TYPE 3A ONLY

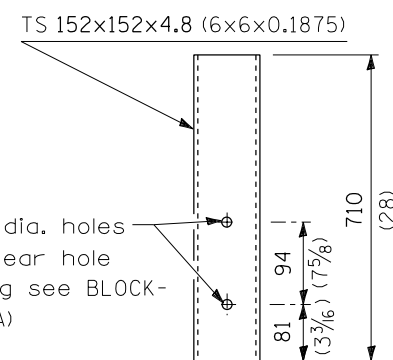


CONNECTING PLATE
(1 each)

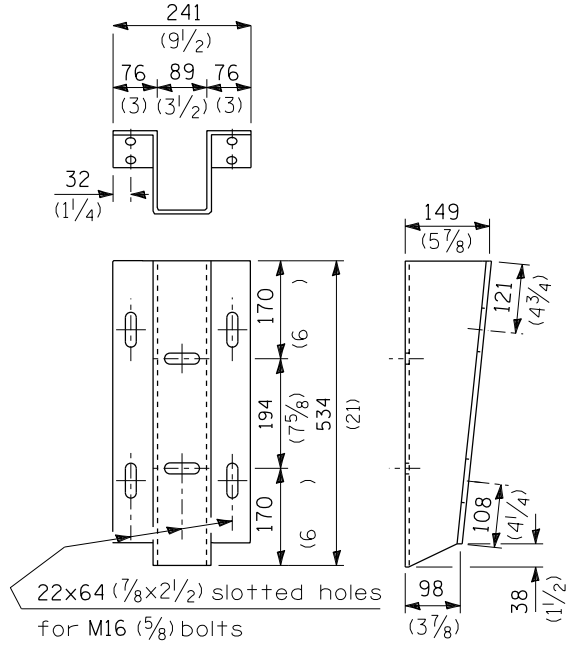


THRIE BEAM END SHOE
(1 each)

SPLICE PLATE
(1 each)



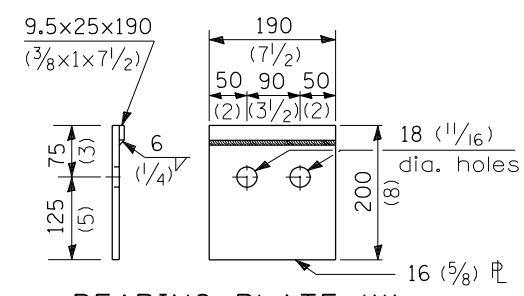
BLOCK-OUT CC FOR THRIE BEAM
(1 each)



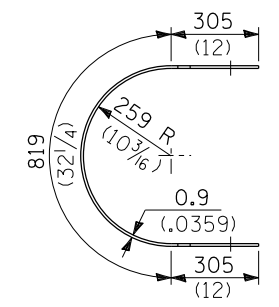
BRACKET Z
(2 each)

(6.4 1/4) steel plate or section of rectangular tubing with flanges welded on

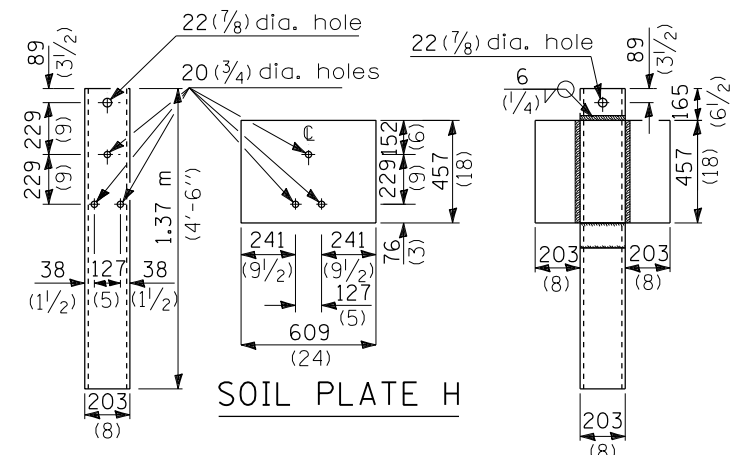
TYPE 3 & 3A



BEARING PLATE KK
(1 each)



NOSE
(1 ea.)



STEEL TUBE

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)

ALTERNATE SOIL PLATE CONNECTION

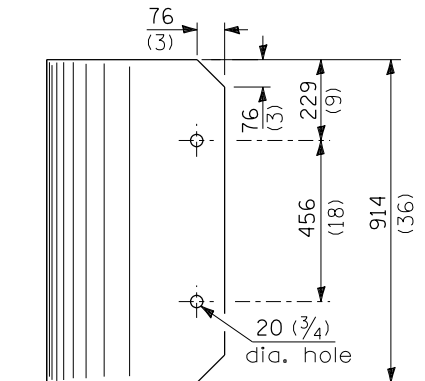
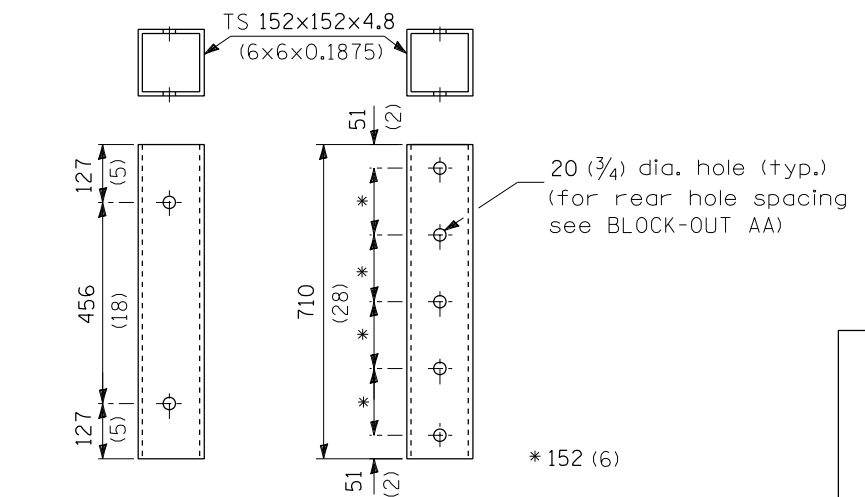


PLATE WASHER S
(10 ea. Type 3)
(11 ea. Type 3A)

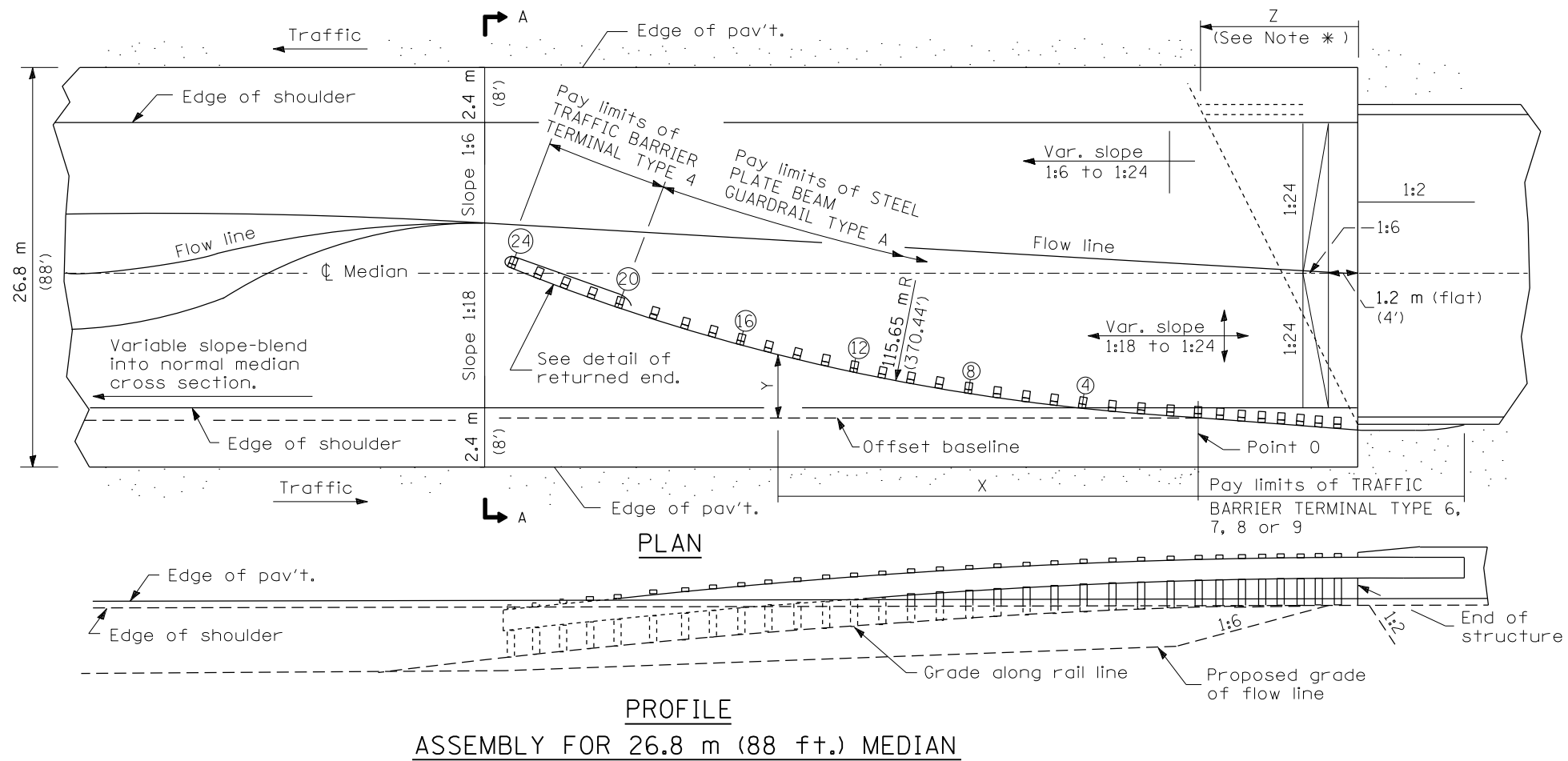


BLOCK-OUT AA
(8 ea.)

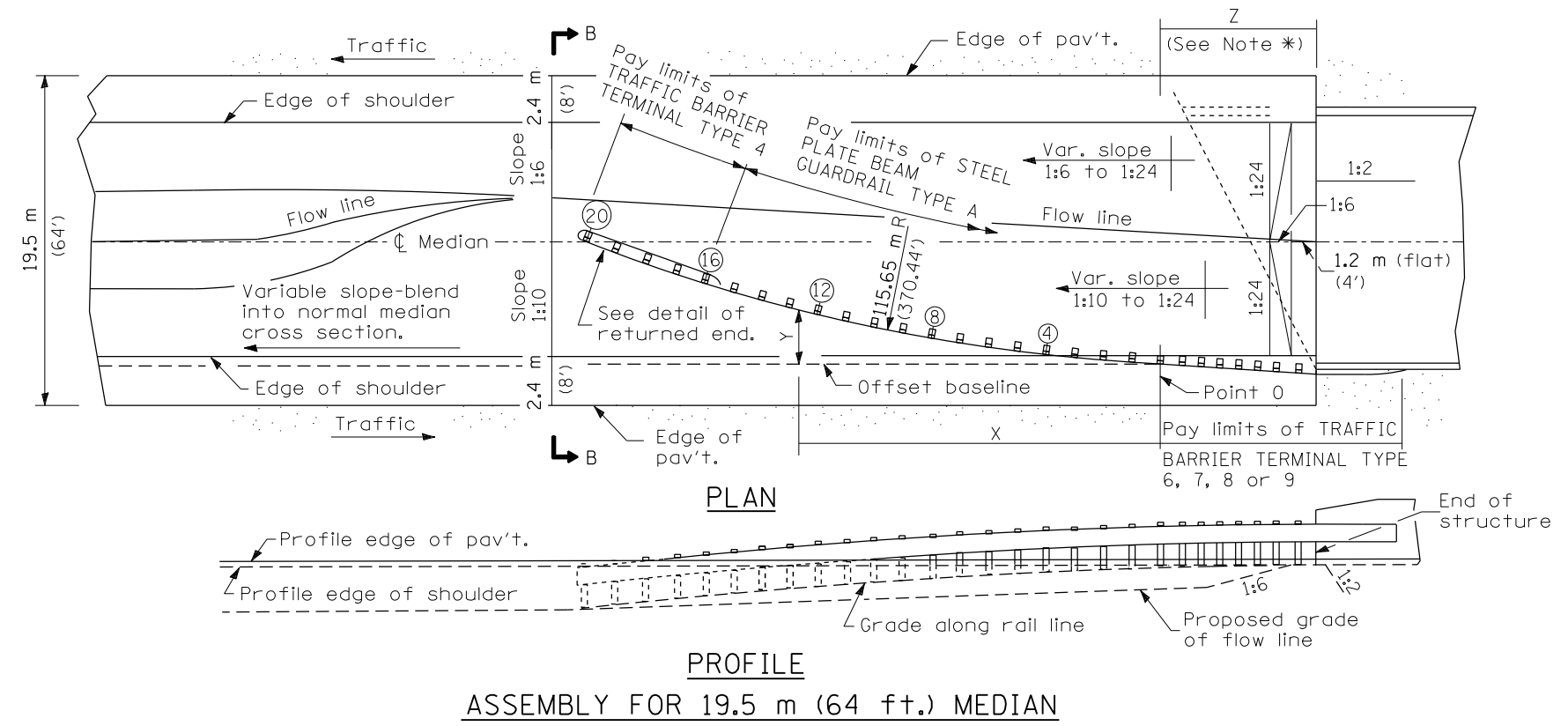
BLOCK-OUT BB AT SPLICE
(2 ea. Type 3)
(3 ea. Type 3A)

DETAIL INCLUDED FOR REPAIR ONLY

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



ASSEMBLY FOR 26.8 m (88 ft.) MEDIAN



ASSEMBLY FOR 19.5 m (64 ft.) MEDIAN

OFFSETS TO FACE OF RAIL		
POST	DISTANCE X m (ft.)	OFFSET Y m (ft.)
POINT 0	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)
⑰	29.94 (98.23)	5.20 (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 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 guard-rail 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.

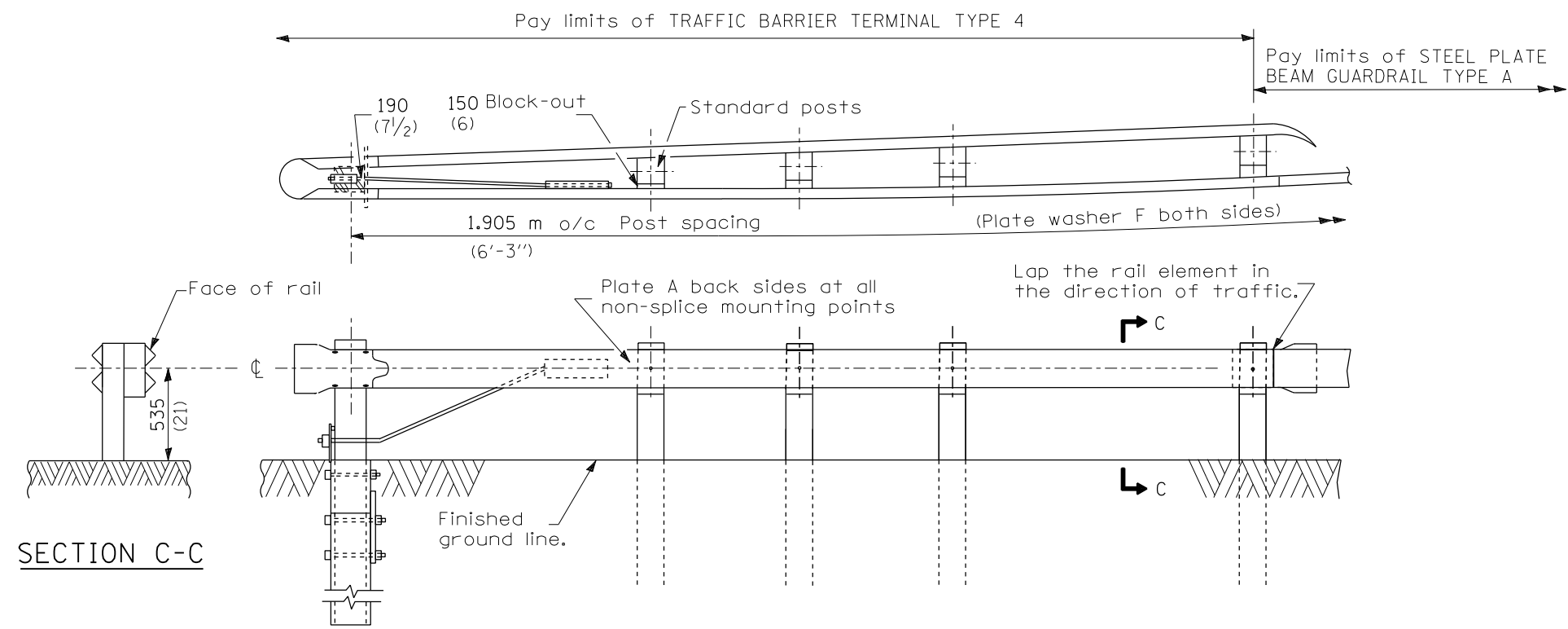
The bearing plate K shall be held in position by (2) two eight penny nails driven into the post and bent over the top of the plate.

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

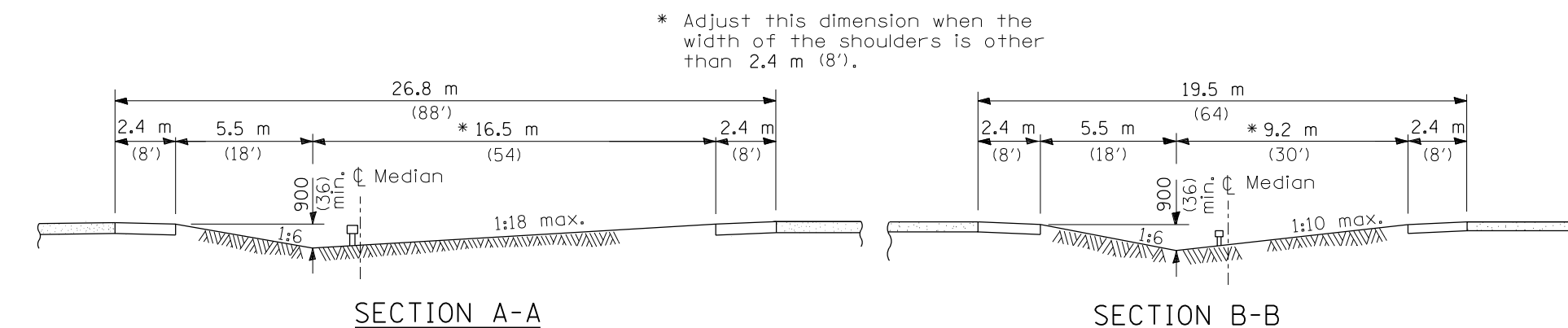
All dimensions are in millimeters (inches) unless otherwise shown.

DETAIL INCLUDED FOR REPAIR ONLY

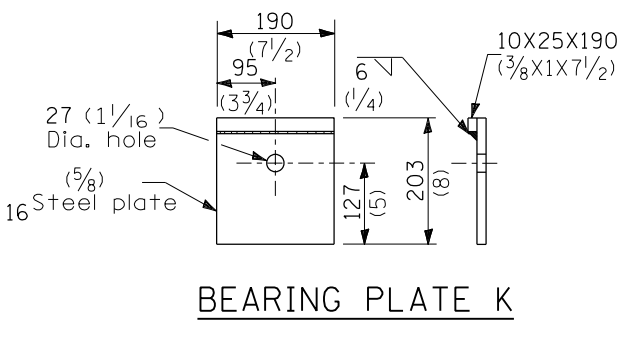
All dimensions are in millimeters (inches) unless otherwise shown.



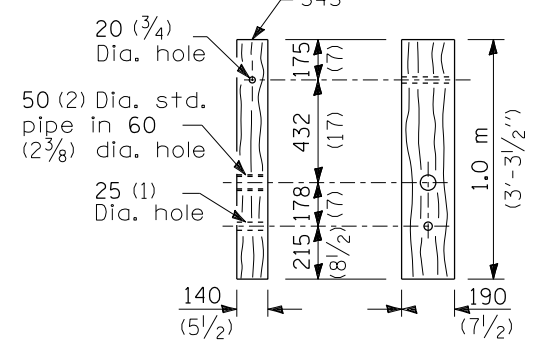
RETURNED END DETAIL



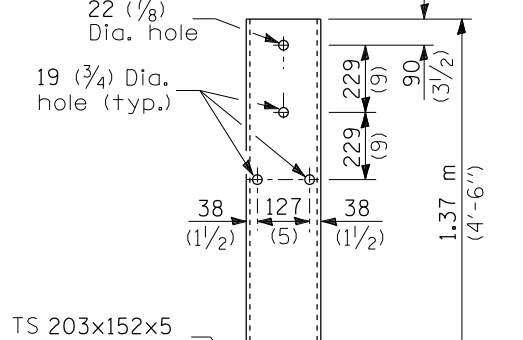
SECTION A-A SECTION B-B



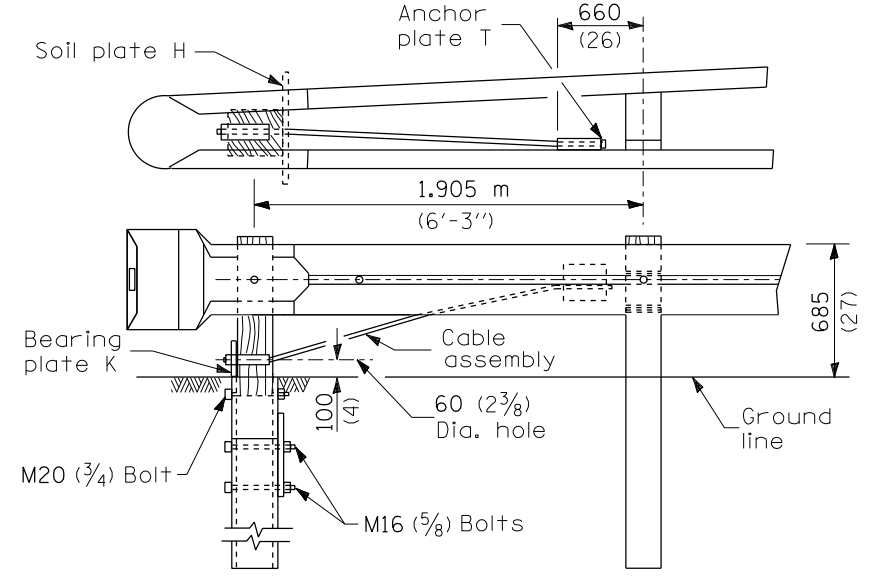
BEARING PLATE K



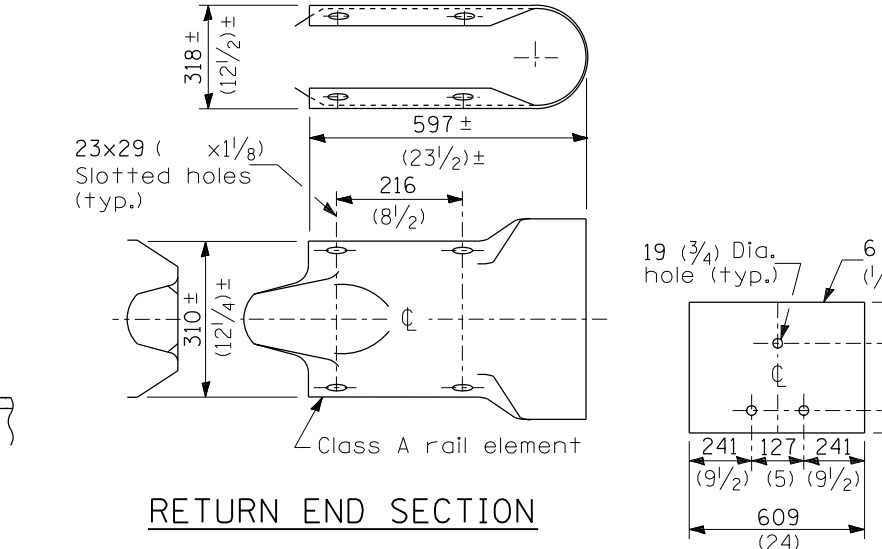
WOOD BREAKAWAY POST



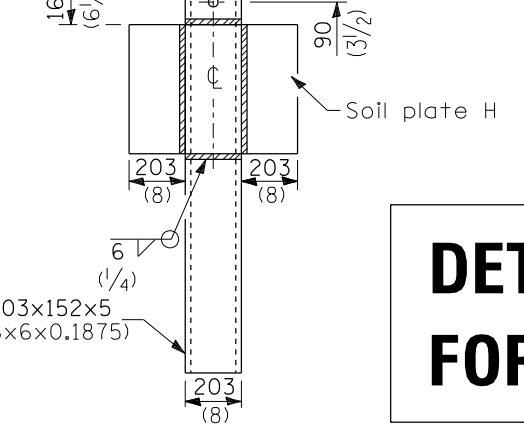
STEEL TUBE



WOOD POST TUBULAR STEEL FOUNDATION



RETURN END SECTION SOIL PLATE H

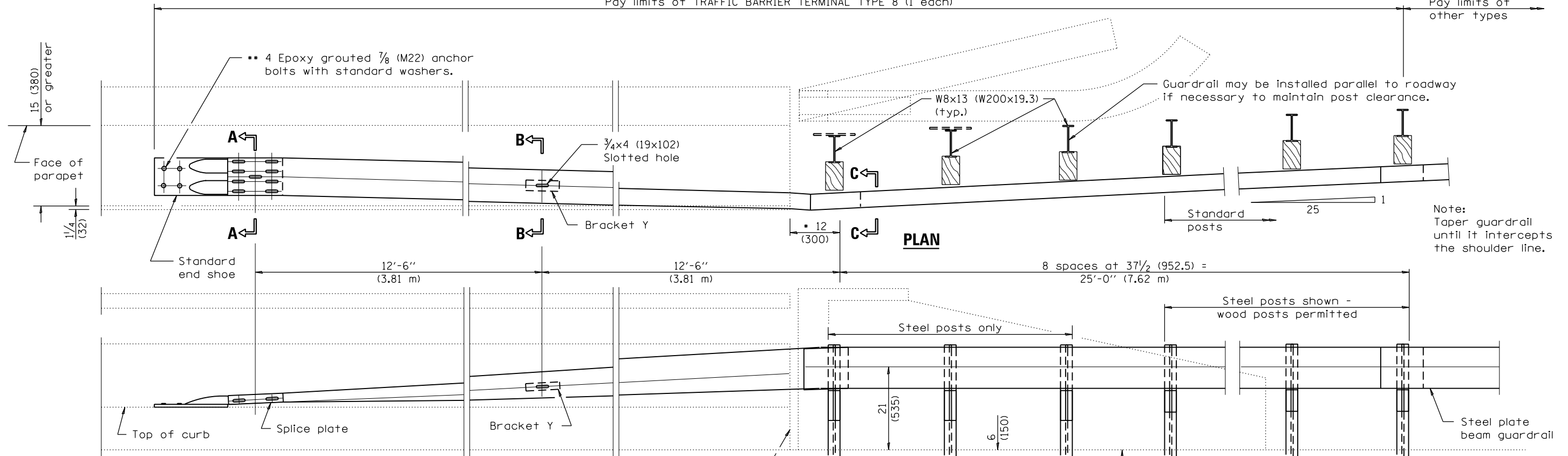


ALTERNATE SOIL PLATE CONNECTION

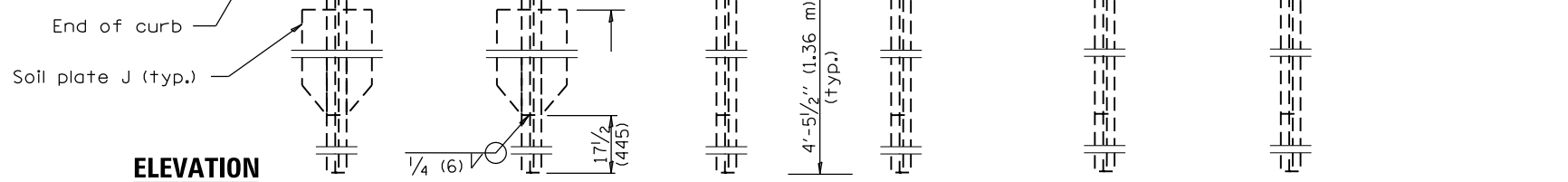
DETAIL INCLUDED FOR REPAIR ONLY

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

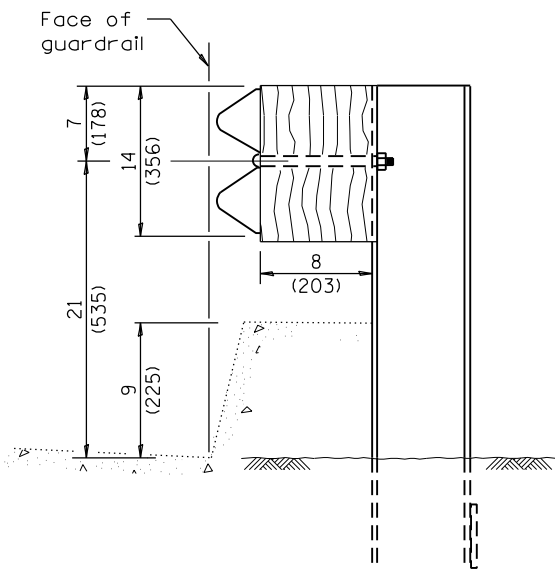
FILE NAME =	USER NAME = santiaogct	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC BARRIER TERMINAL TYPE 4		F.A. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 3\Projects\036\EDRAWING\B3xxxxx-sht-cover.dgn		CHECKED -	REVISED -		VAR.		VAR.	43	19		
PLOT SCALE = 250000.0000 / in.		DATE -	REVISED -		CONTRACT NO. 66E94						
PLOT DATE = 3/21/2016					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						



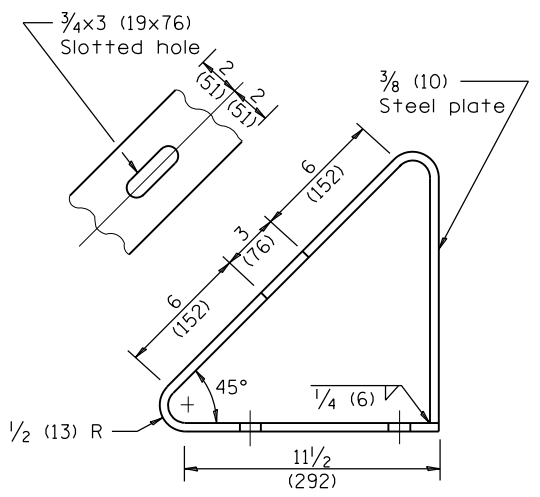
Note:
Taper guardrail until it intercepts the shoulder line.



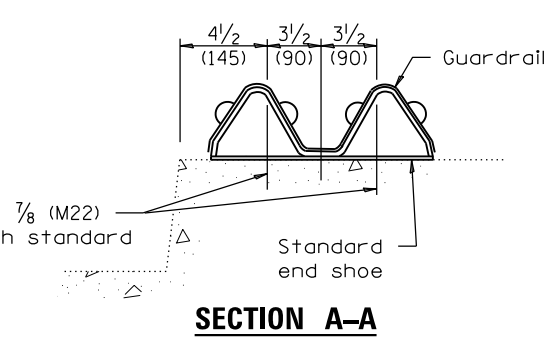
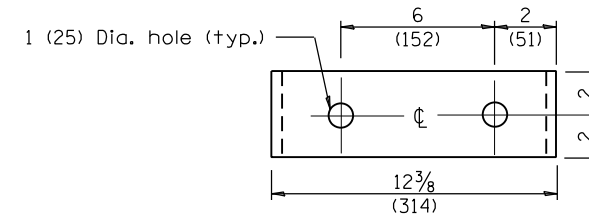
ELEVATION



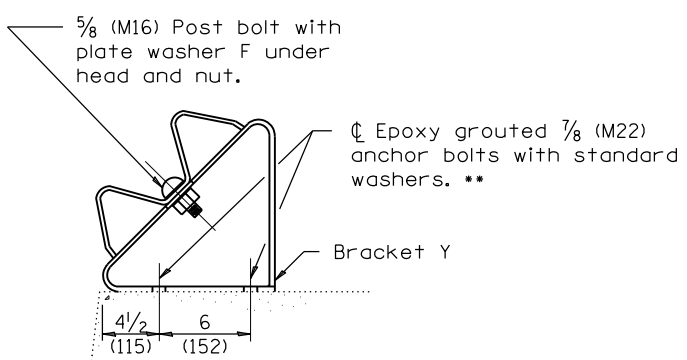
SECTION C-C



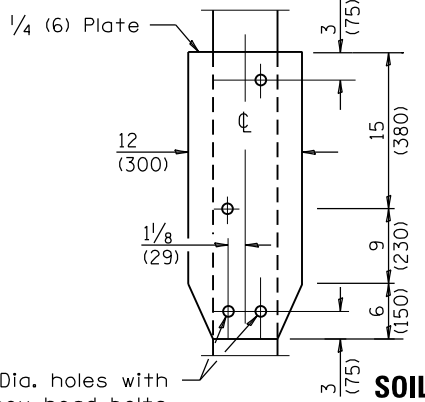
BRACKET Y



SECTION A-A



SECTION B-B

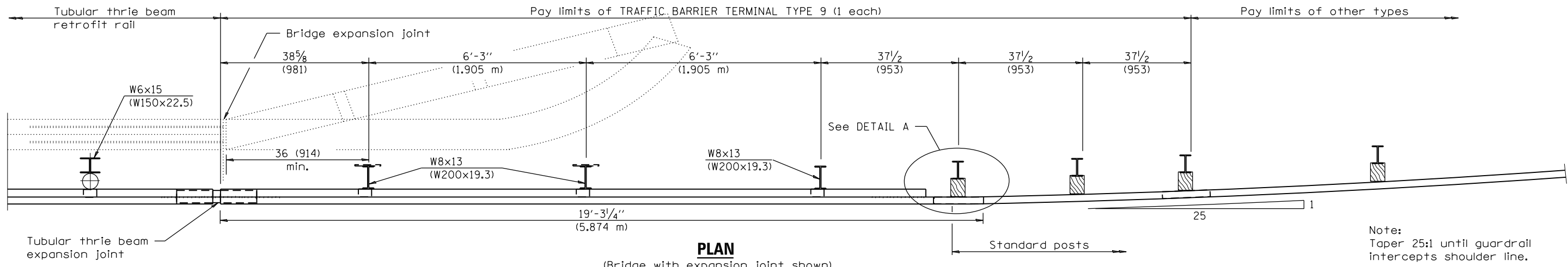


SOIL PLATE J & ALTERNATE CONNECTION DETAILS

GENERAL NOTES

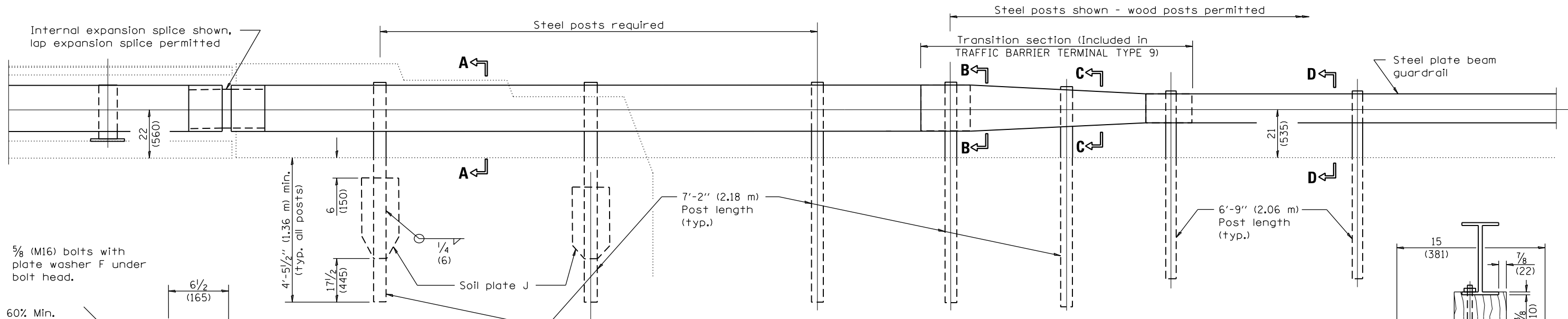
- See Standard 630001 for details of guardrail not shown.
- This dimension may be increased to fit field conditions. This post shall be located first. The layout of the terminal shall be determined by its location.
- ** After tightening, cut the anchor bolts flush with nuts, and damage the bolt head to prevent them from loosening.
- All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = santiaogct	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC BARRIER TERMINAL TYPE 8			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\11\084EBIDINTEG.11\inois.gov\PWIDOT\Documents\DOT Offices\District 3\Projects\0366\Drawings\B3xxxxx-sht-cover.dgn		CHECKED -	REVISED -		SCALE: _____	SHEET _____	OF _____	STA. _____	TO STA. _____	VAR.	VAR.	43	20
Default		DATE -	REVISED -					CONTRACT NO. 66E94			ILLINOIS FED. AID PROJECT		
								DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 17					

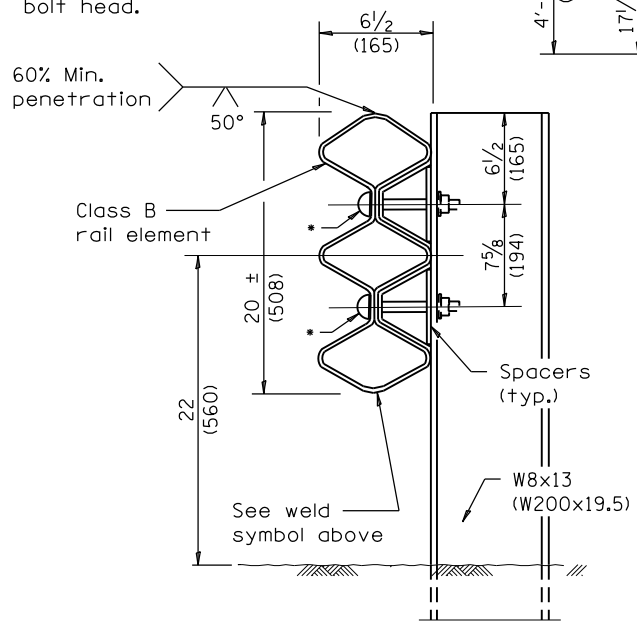


PLAN
(Bridge with expansion joint shown)

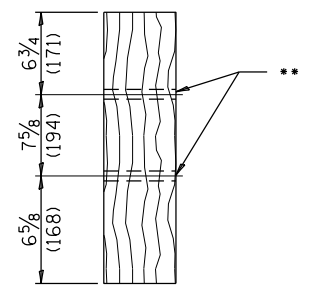
Note:
Taper 25:1 until guardrail intercepts shoulder line.



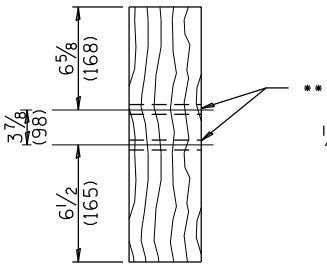
ELEVATION



SECTION A-A



SECTION B-B

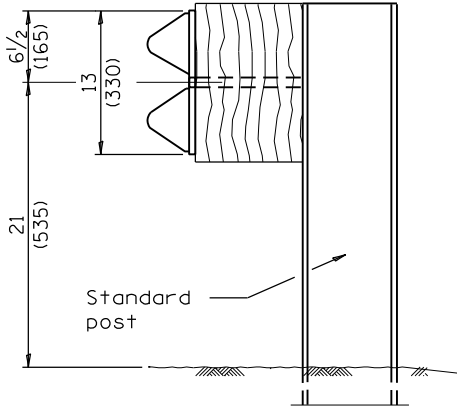
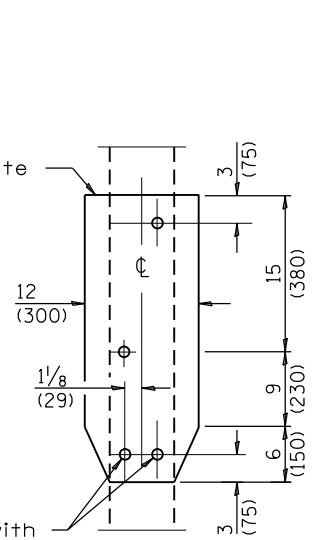


SECTION C-C

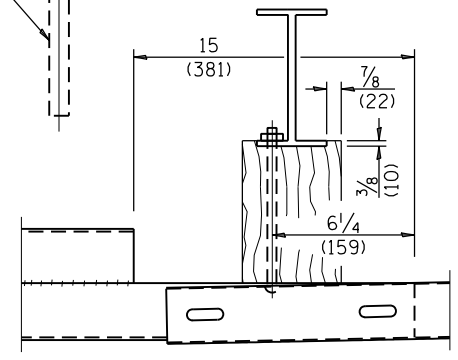
DETAILS of BLOCK-OUTS
•• \varnothing 3/4 (19) Dia. hole

4-3/4 (19) Dia. holes with 5/8 (M16) hex head bolts with std. hex nut (typ.)

SOIL PLATE J & ALTERNATE CONNECTION DETAILS



SECTION D-D



DETAIL A

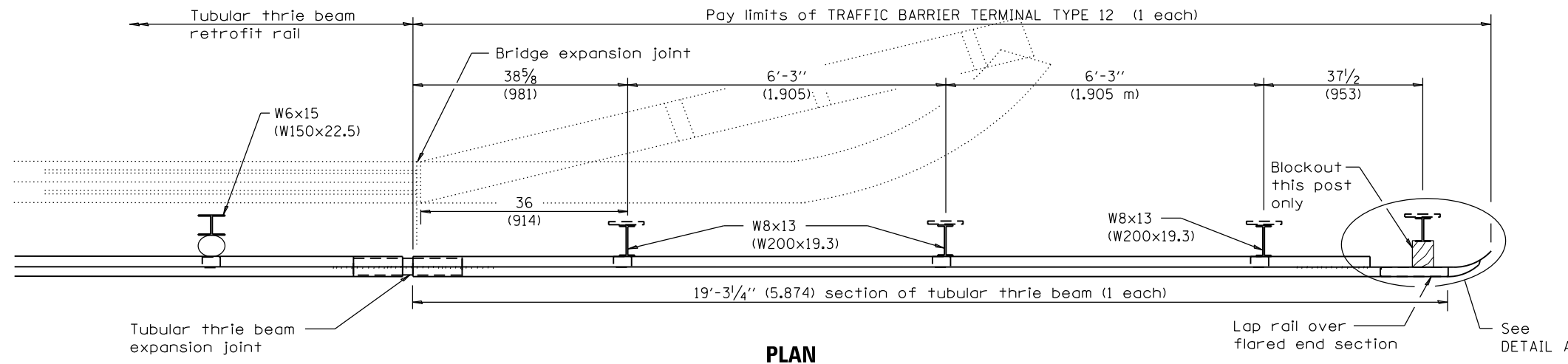
GENERAL NOTES

See Standards 509001 and 630001 for details of guardrail elements not shown.

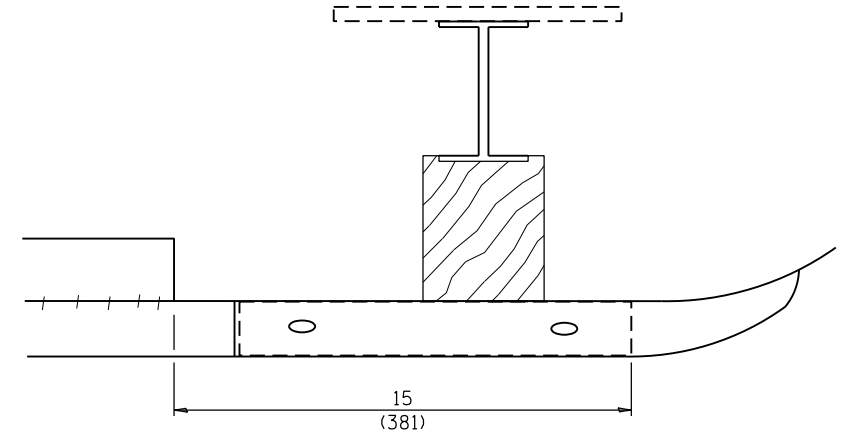
The Type 9 terminal shall be installed after the posts for the bridge retrofit rail have been located as shown on Standard 509001.

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

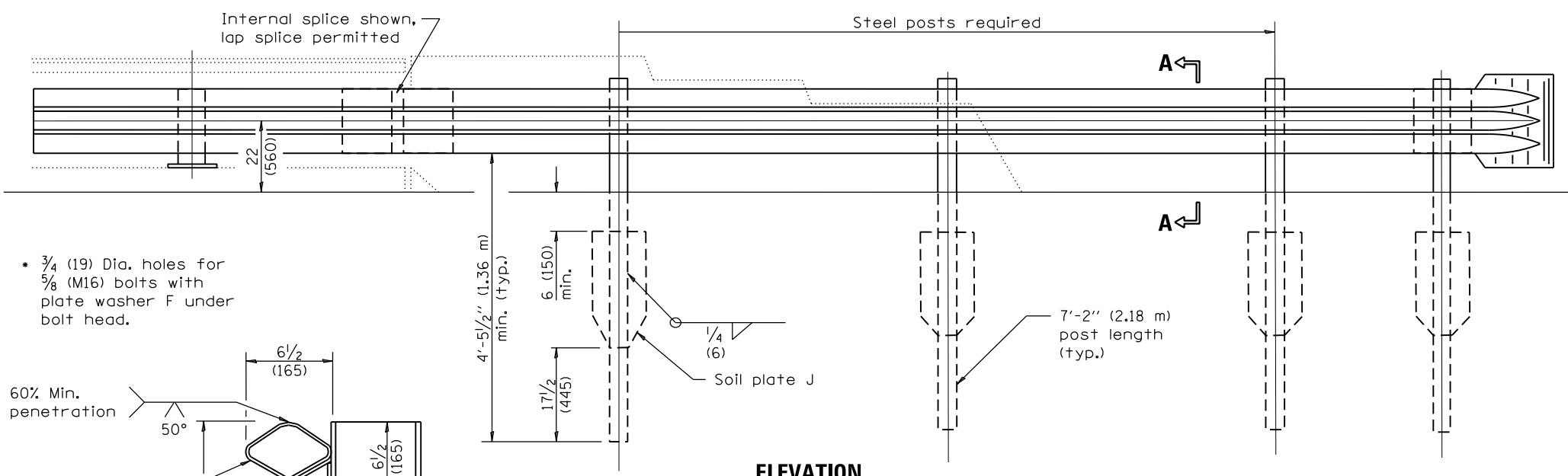
FILE NAME =	USER NAME = santiaogct	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC BARRIER TERMINAL TYPE 9	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	PLOT SCALE = 250000.0000 "/ in.	CHECKED -	REVISED -			VAR.	VAR.	VAR.	43	21	
	PLOT DATE = 3/21/2016	DATE -	REVISED -			CONTRACT NO. 66E94					
						ILLINOIS FED. AID PROJECT					



PLAN
(Bridge with expansion joint shown)

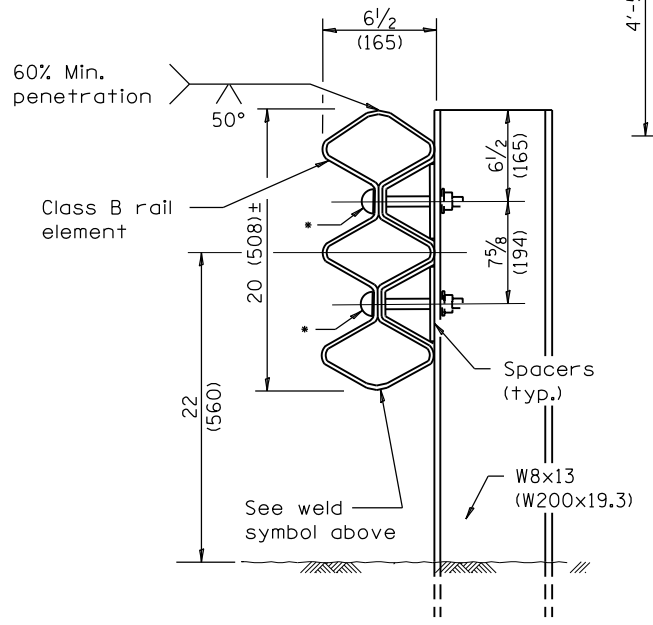


DETAIL A

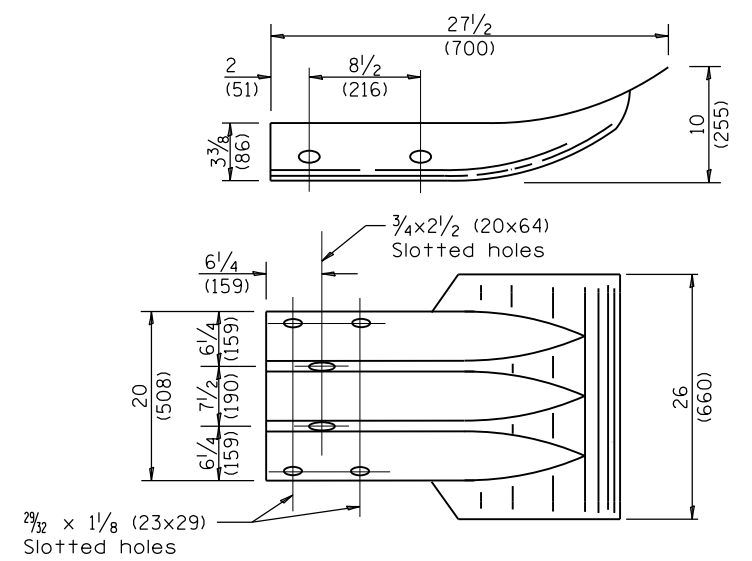


ELEVATION

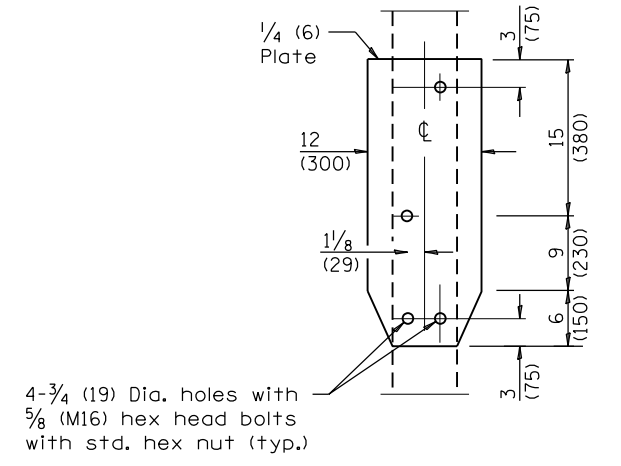
- 3/4 (19) Dia. holes for 5/8 (M16) bolts with plate washer F under bolt head.



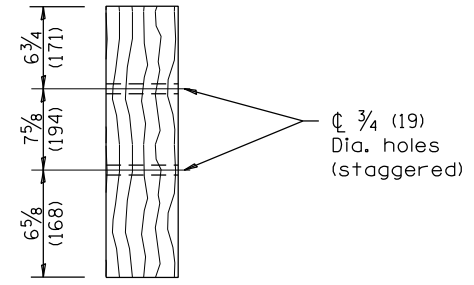
SECTION A-A



THRIE BEAM FLARED END SECTION



SOIL PLATE J & ALTERNATE CONNECTION DETAILS



DETAIL of BLOCK-OUT
(1 each)

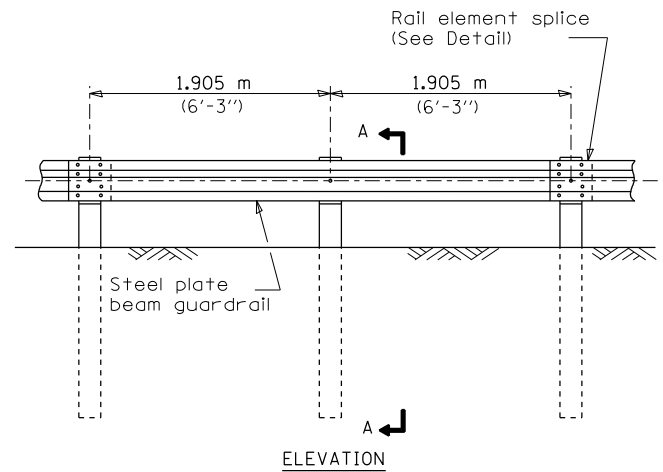
GENERAL NOTES

See Standard 509001 and 630001 for details of guardrail elements not shown.

The Type 12 terminal shall be installed after the posts for the bridge retrofit rail have been located as shown on Standard 509001.

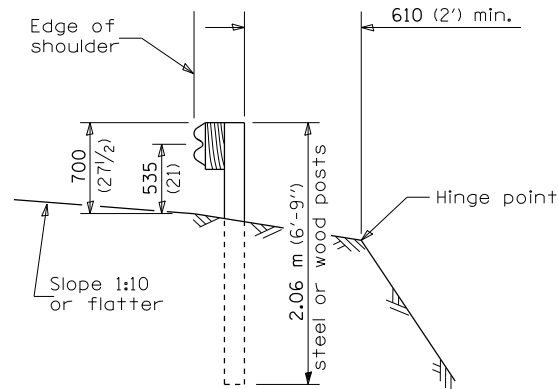
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = santiaogct	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC BARRIER TERMINAL TYPE 12	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG\illinois.gov\PWIDOT\Documents\DOT Offices\District 3\Projects\036EDRAWING\Date\B3xxxxx-sht-cover.dgn	PLOT SCALE = 250000.0000 ' / in.	CHECKED -	REVISED -			VAR.	VAR.	43	22	
Default	PLOT DATE = 3/21/2016	DATE -	REVISED -			CONTRACT NO. 66E94		ILLINOIS FED. AID PROJECT		
						SCALE: _____	SHEET _____	OF _____	SHEETS	STA. _____

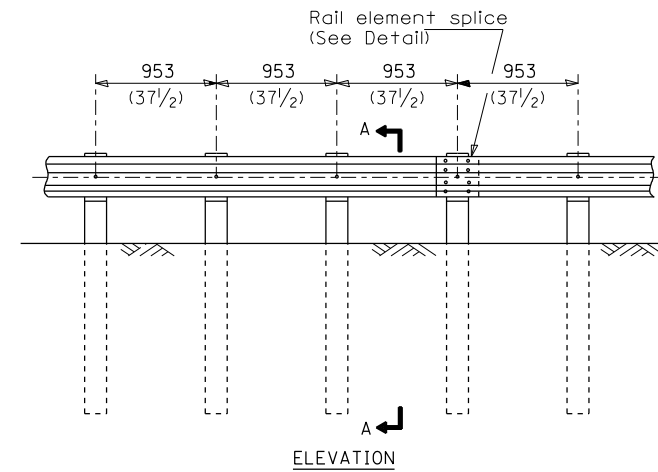


TYPE A

1.905 m (6'-3") Typical post spacing

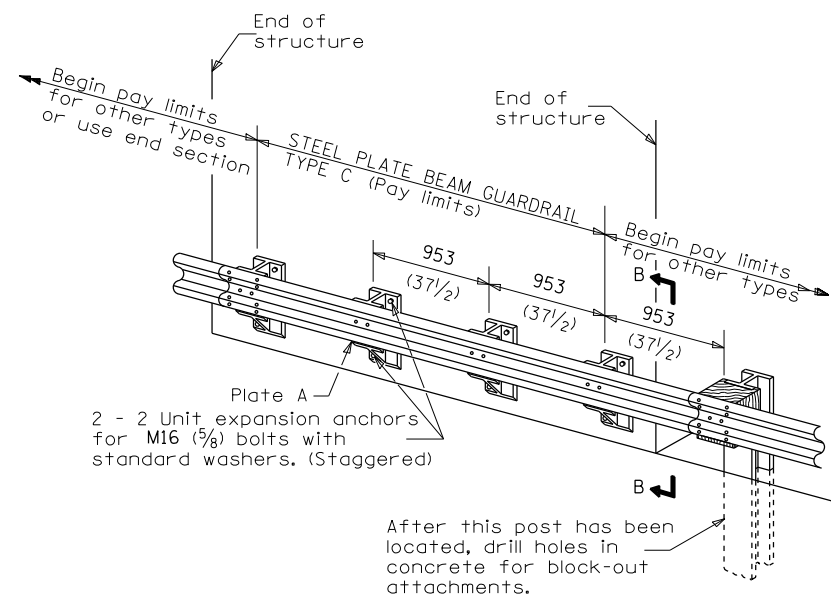


SECTION A-A



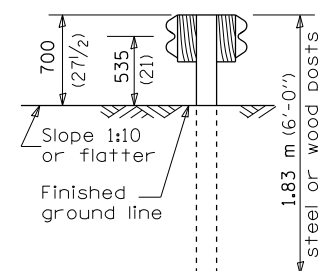
TYPE B

953 (37 1/2) Closed post spacing

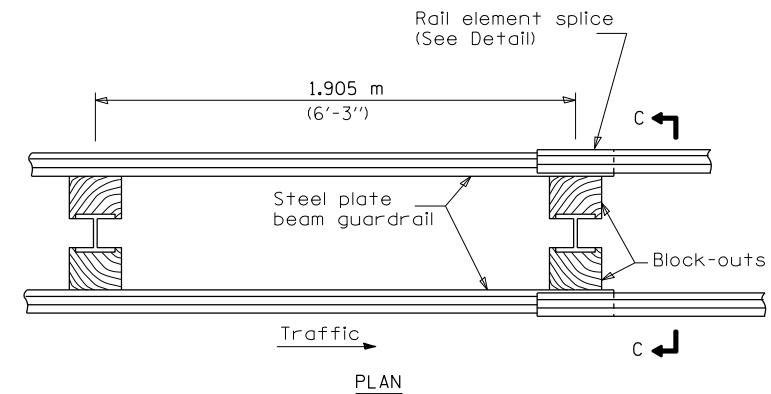


TYPE C

953 (37 1/2) Block-out spacing

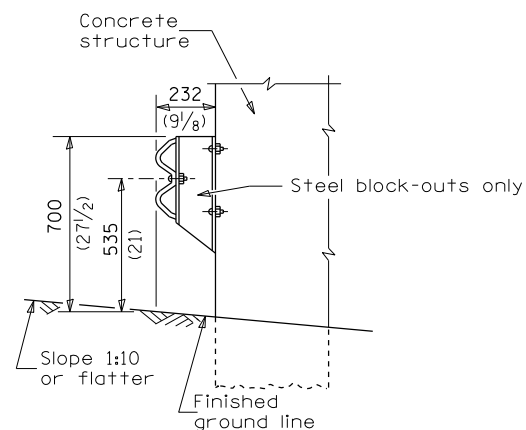


SECTION C-C



TYPE D

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



SECTION B-B

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.

FILE NAME =	USER NAME = santiaogct	DESIGNED -	REVISED -
pw:\l\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 3\Projects\0366\DRAWING\Date\B3xxxx-sht-cover.dgn		CHECKED -	REVISED -
		DATE -	REVISED -
PLOT SCALE = 250000.0000 / in.			
PLOT DATE = 3/21/2016			

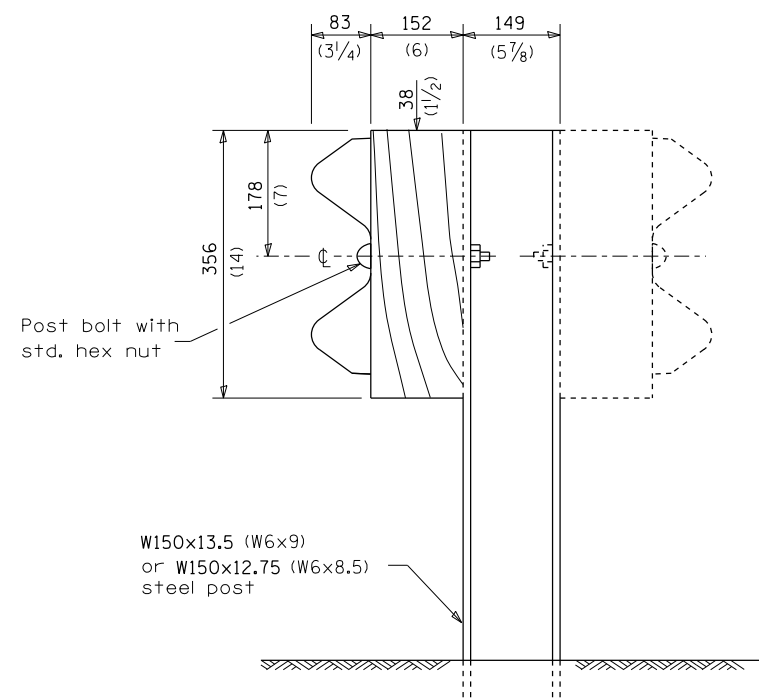
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PRE-MGS EFFECTIVE 4-1-06
STEEL PLATE BEAM GUARDRAIL
STANDARD 630001-06**

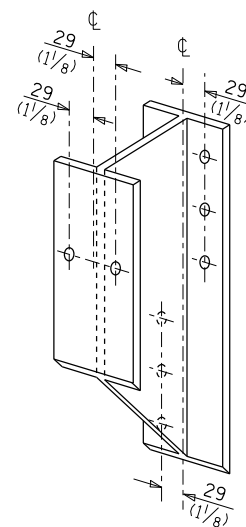
(Sheet 1 of 4)

SCALE: _____ SHEET NO. ____ OF ____ SHEETS STA. _____ TO STA. _____

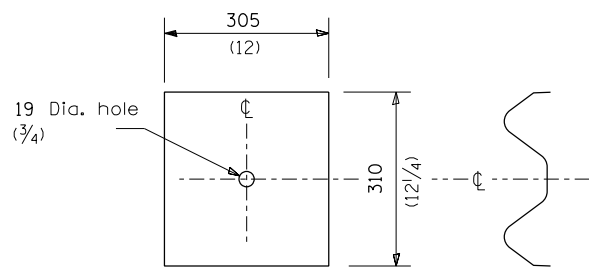
• DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 17				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		VAR.	43	23
			CONTRACT NO. 66E94	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



STEEL POST CONSTRUCTION



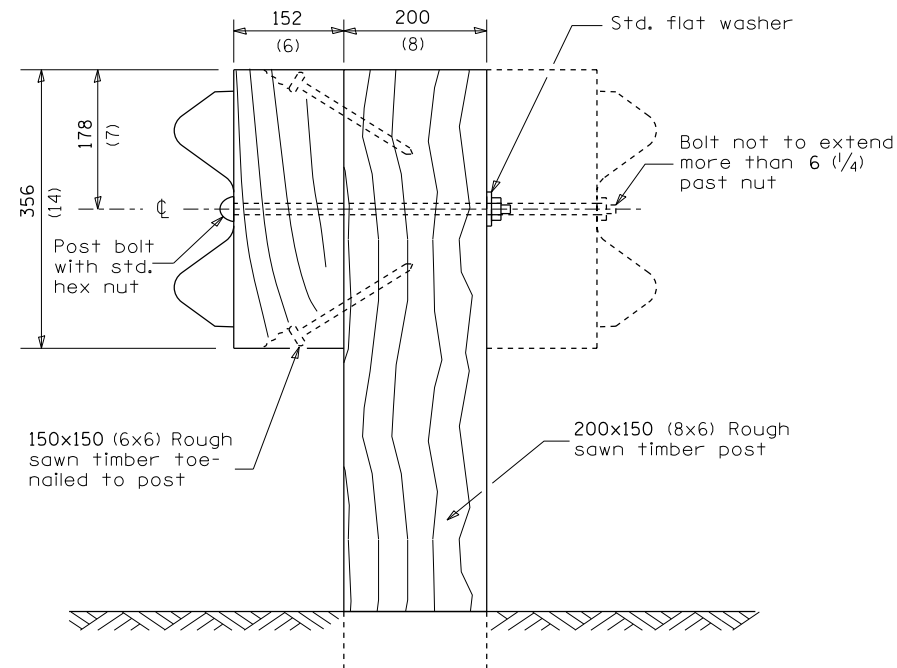
STEEL BLOCK-OUT DETAIL



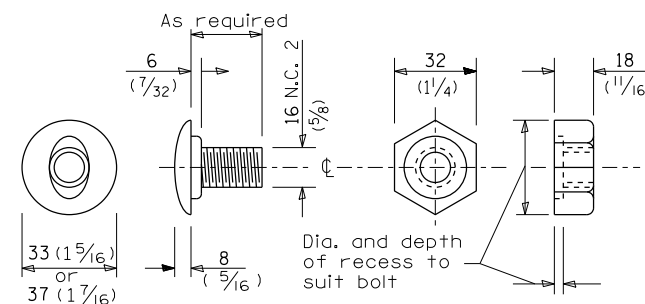
NOTE

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



WOOD POST CONSTRUCTION



POST OR SPLICE BOLT & NUT

FILE NAME =	USER NAME = santiaogct	DESIGNED -	REVISED -
pw:\IL\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 3\Projects\0366EDR\Drawings\B3xxxx-sht-cover.dgn		CHECKED -	REVISED -
PLOT SCALE = 250000.0000 ' / in.		DATE -	REVISED -
PLOT DATE = 3/21/2016			

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PRE-MGS EFFECTIVE 4-1-06
STEEL PLATE BEAM GUARDRAIL
STANDARD 630001-06**

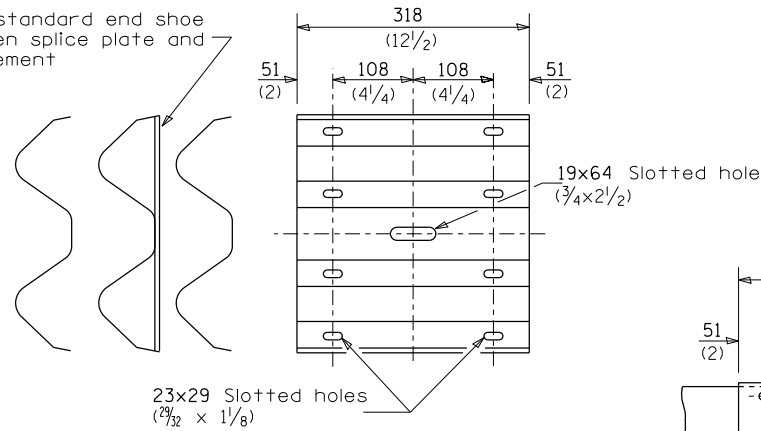
(Sheet 2 of 4)

SCALE: _____ SHEET NO. ____ OF ____ SHEETS STA. _____ TO STA. _____

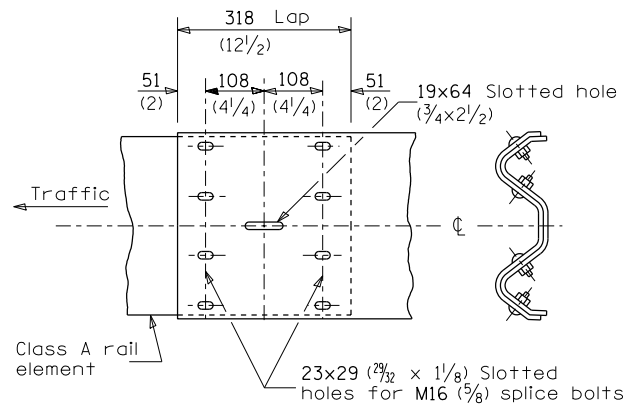
• DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 17

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	VAR.	43	24
			CONTRACT NO. 66E94	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

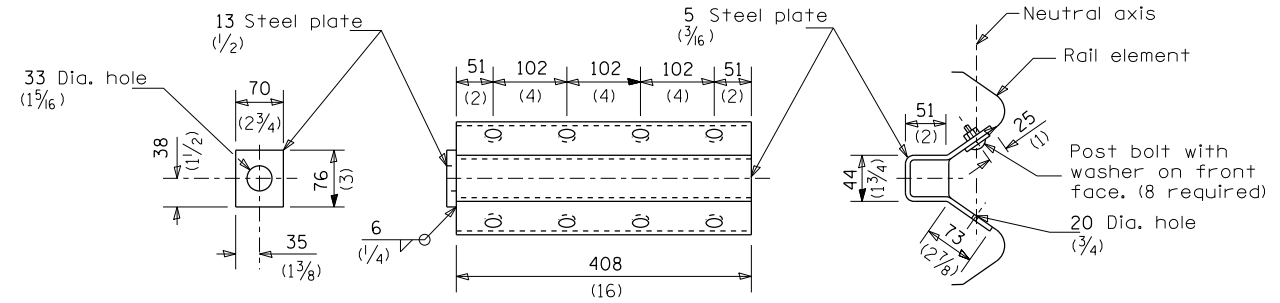
Place standard end shoe between splice plate and rail element



SPLICE PLATE



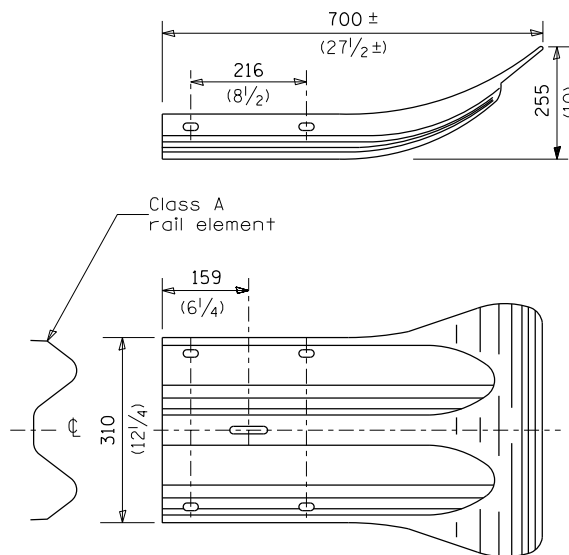
RAIL ELEMENT SPLICE



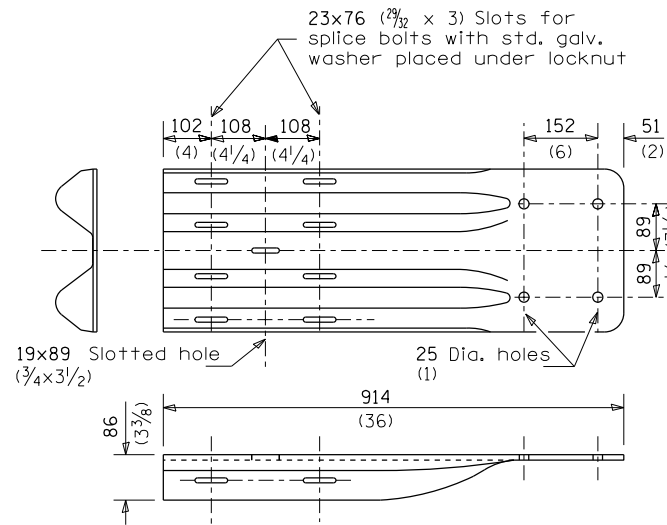
NOTE

Anchor plate T shall be used to attach cable assembly to guardrail when required on traffic barrier terminals.

ANCHOR PLATE T DETAILS



END SECTION



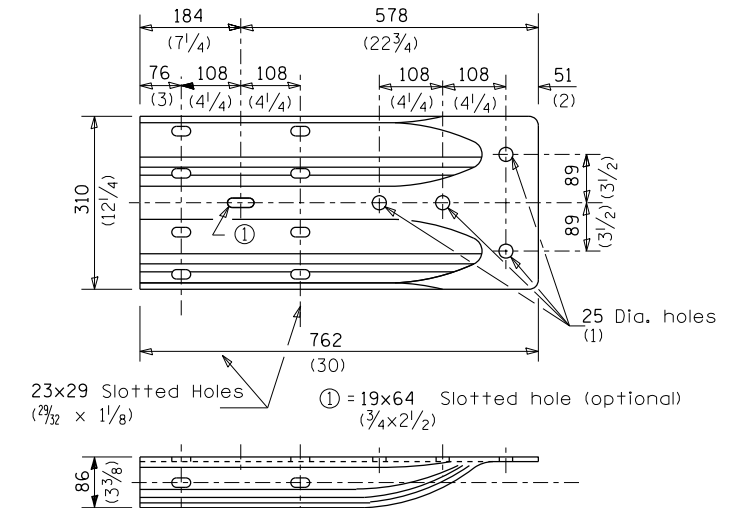
NOTE

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.

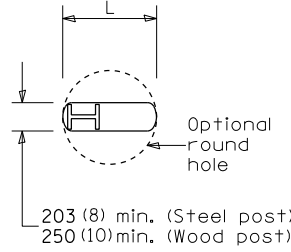
The standard end shoe shall be attached to the concrete with pre-drilled or self-drilling anchor bolts. The anchor cone shall be set flush with the surface of the concrete.

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

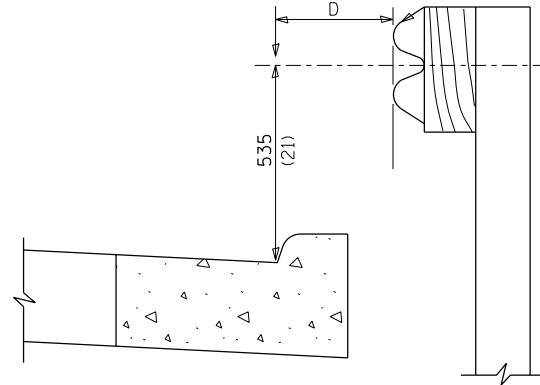
END SHOE



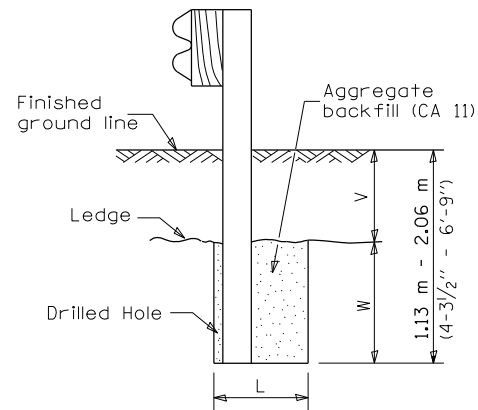
ALTERNATE END SHOE



PLAN



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

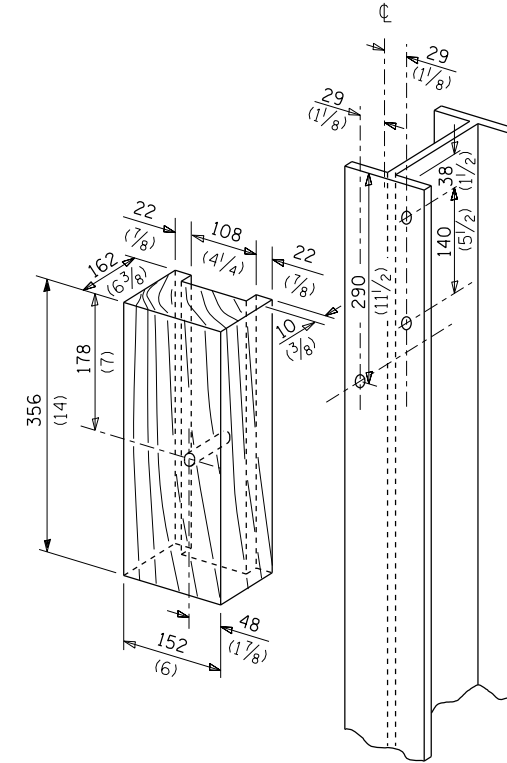


Note:
Ledge line is top of rock ledge or hard slag fill.

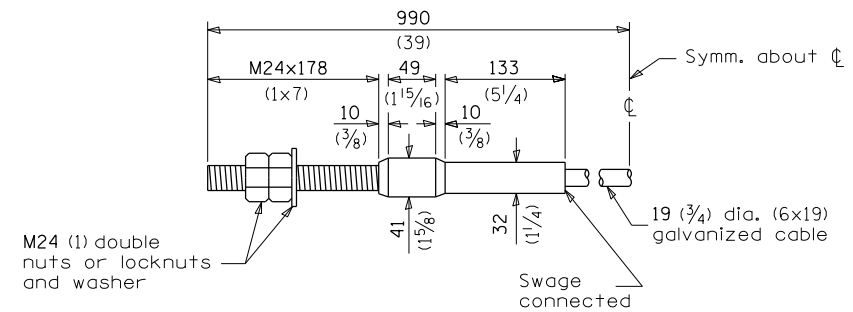
ELEVATION

FOOTING FOR POST WHEN IMPERVIOUS MATERIAL IS ENCOUNTERED

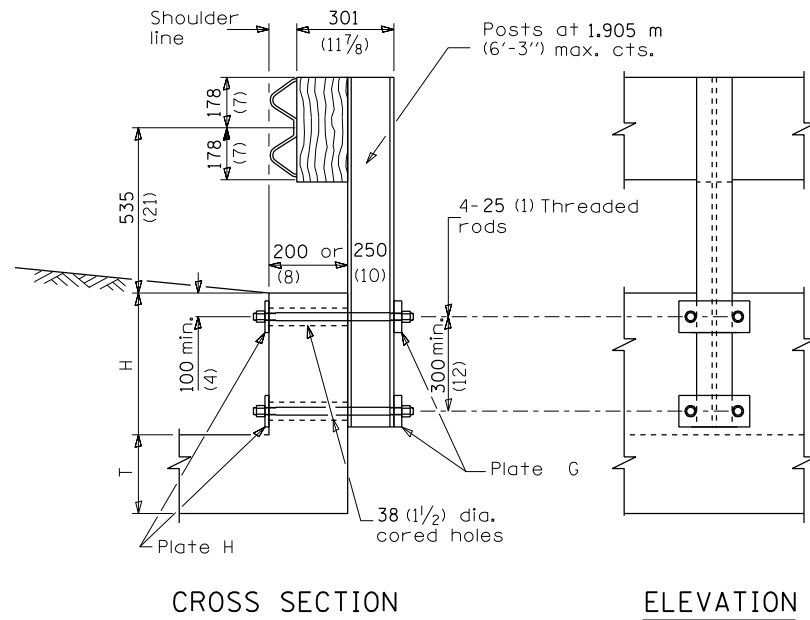
V	W	L	
		Steel Post	Wood Post
0 - 460 (0 - 18)	610 (24)	530 (21)	580 (23)
>460 - 825 (>18 - 41.5)	305 (12)	203 (8)	250 (10)
>825 - 1.13 m (>41.5 - 53.5)	305 - 0 (12 - 0)	203 (8)	250 (10)



WOOD BLOCK-OUT AND STEEL POST DETAILS



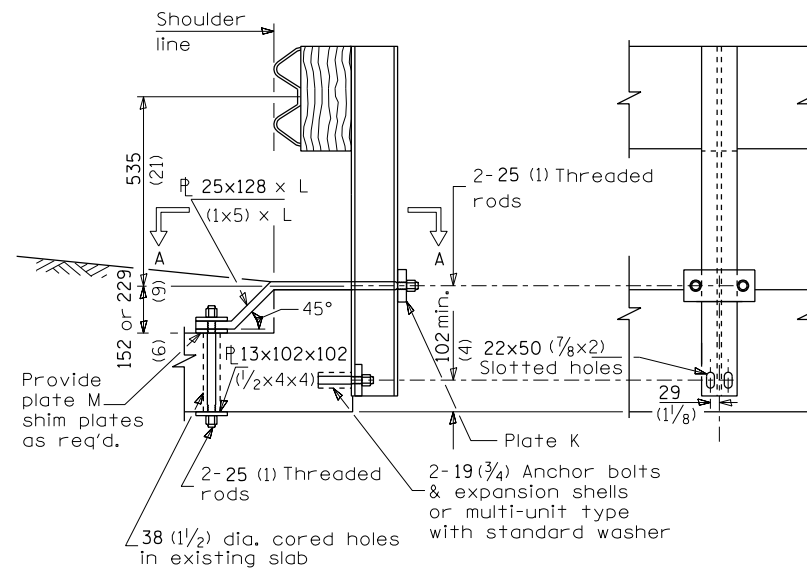
CABLE ASSEMBLY
(18,100 kg (40,000 lbs.) min. breaking strength)
Tighten to taut tension.



CROSS SECTION

ELEVATION

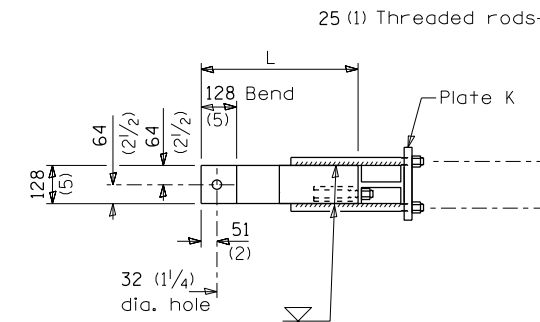
CONDITION H > 450 (18)



CROSS SECTION

ELEVATION

CASE II
MOUNTED ON TOP HEADWALL
WITH SQUARE TIP



SECTION A-A

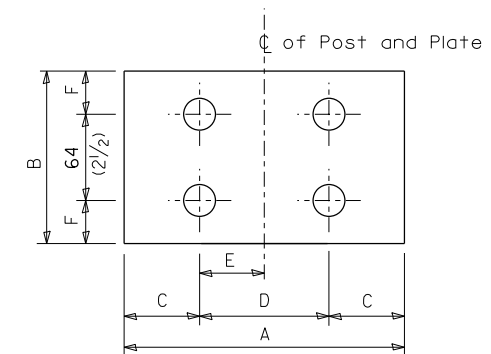


PLATE TYPE J

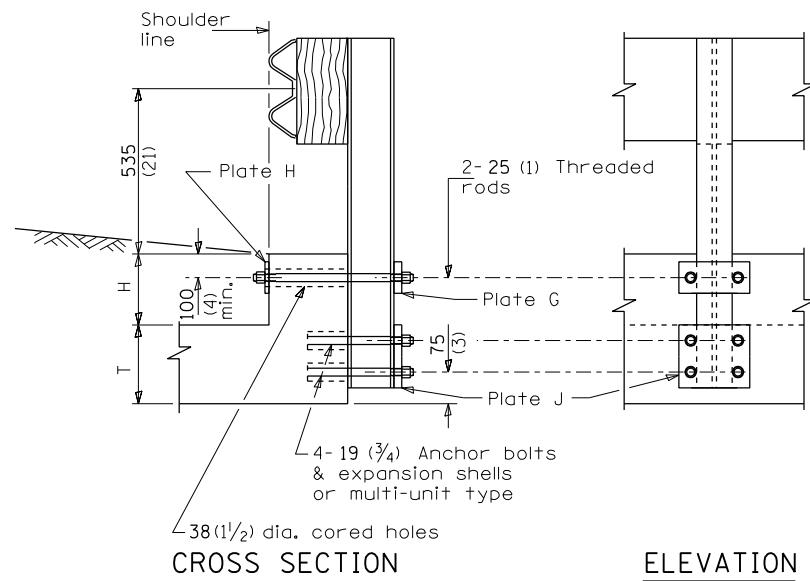
GENERAL NOTES

Except as noted, dimensions and notes specified for case II, III, and IV are the same as specified for case I.

For details of guardrail elements not shown, see Standard 630001.

All threaded rods shall be installed with heavy hex nuts and standard washers.

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



CROSS SECTION

ELEVATION

CONDITION H < 450 (18) & H+T ≥ 510 (20)

CASE I
MOUNTED ON
RAISED HEADWALL

PLATE DIMENSIONS								
Type	A	B	C	D	E	F	Hole Dia.	Thick-ness
G	230 (9)	100 (4)	40 (1 1/2)	150 (6)	75 (3)	50 (2)	29 (1 1/8)	25 (1)
H	230 (9)	100 (4)	40 (1 1/2)	150 (6)	75 (3)	50 (2)	29 (1 1/8)	13 (1/2)
J	230 (9)	126 (5)	40 (1 1/2)	150 (6)	75 (3)	31 (1 1/4)	22 (7/8)	25 (1)
K	230 (9)	100 (4)	40 (1 1/2)	150 (6)	75 (3)	50 (2)	29 (1 1/8)	32 (1 1/4)
M	100 (4)	100 (4)	50 (2)	N/A	N/A	50 (2)	32 (1 1/8)	13 (1/2)

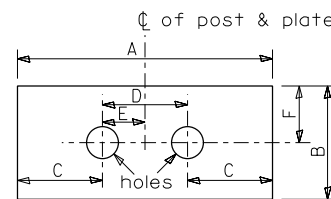


PLATE TYPES G, H & K

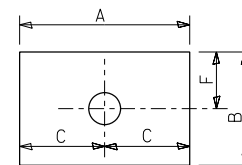


PLATE TYPE M

FILE NAME =	USER NAME = santiaogct	DESIGNED -	REVISED -
pw:\11\084EBIDINTEG.111nois.gov\PIWIDOT\Documents\DOT Offices\District 3\Projects\036EDRAWING\B3xxxxx-sht-cover.dgn		CHECKED -	REVISED -
PLOT SCALE = 250000.0000 / in.		DATE -	REVISED -
PLOT DATE = 3/21/2016			

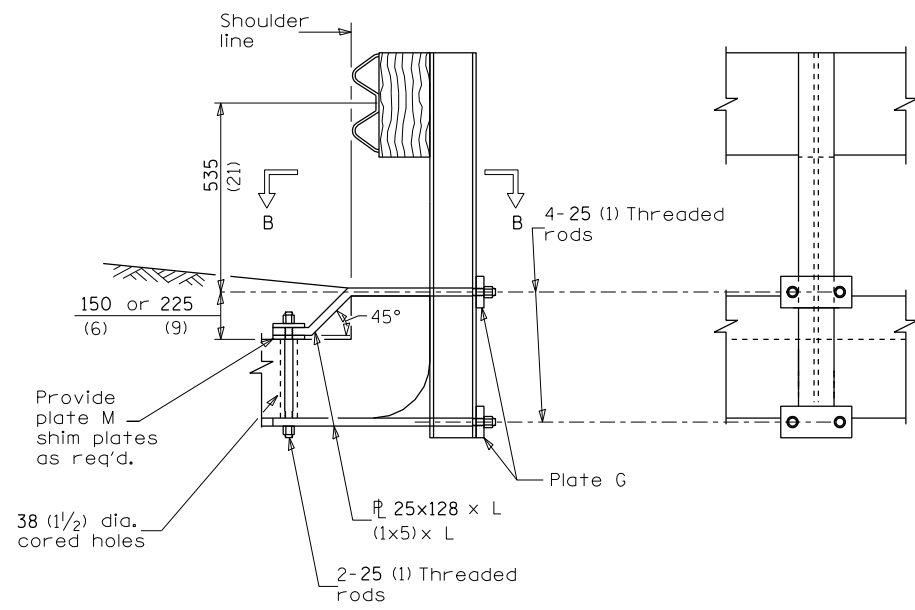
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRE-MGS EFFECTIVE 4-1-06
GUARDRAIL MOUNTED ON EXISTING CULVERTS
STANDARD 630101-06

(Sheet 1 of 2)

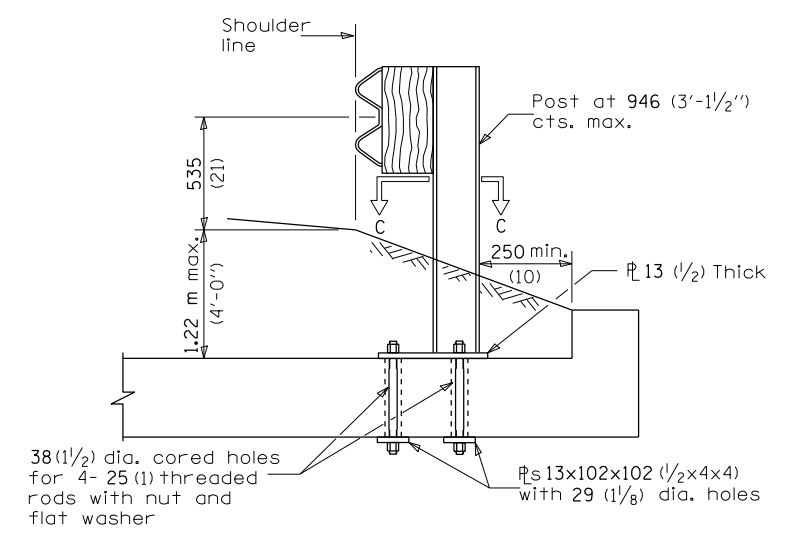
SCALE: _____ SHEET NO. ____ OF ____ SHEETS STA. _____ TO STA. _____

• DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 17				
F.A. RT#	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	VAR.	43	27
			CONTRACT NO. 66E94	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

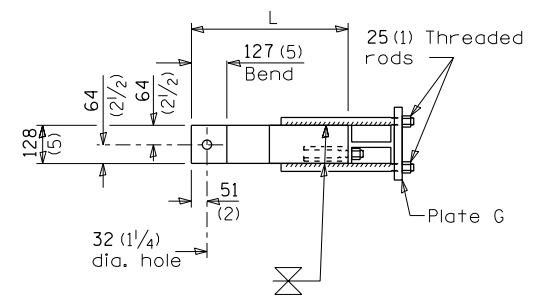


CROSS SECTION

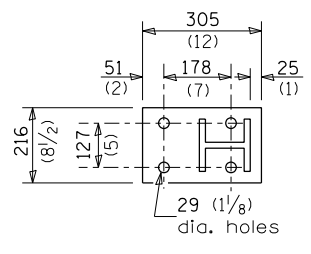
ELEVATION



CROSS SECTION



SECTION B-B

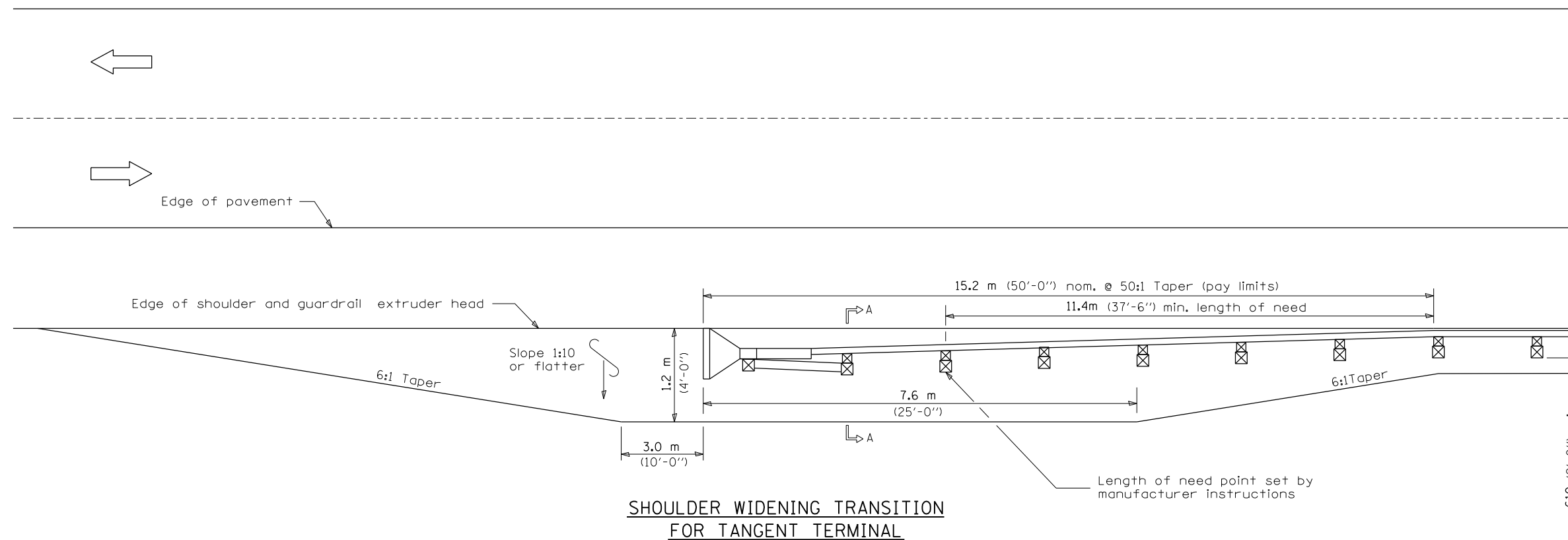


SECTION C-C

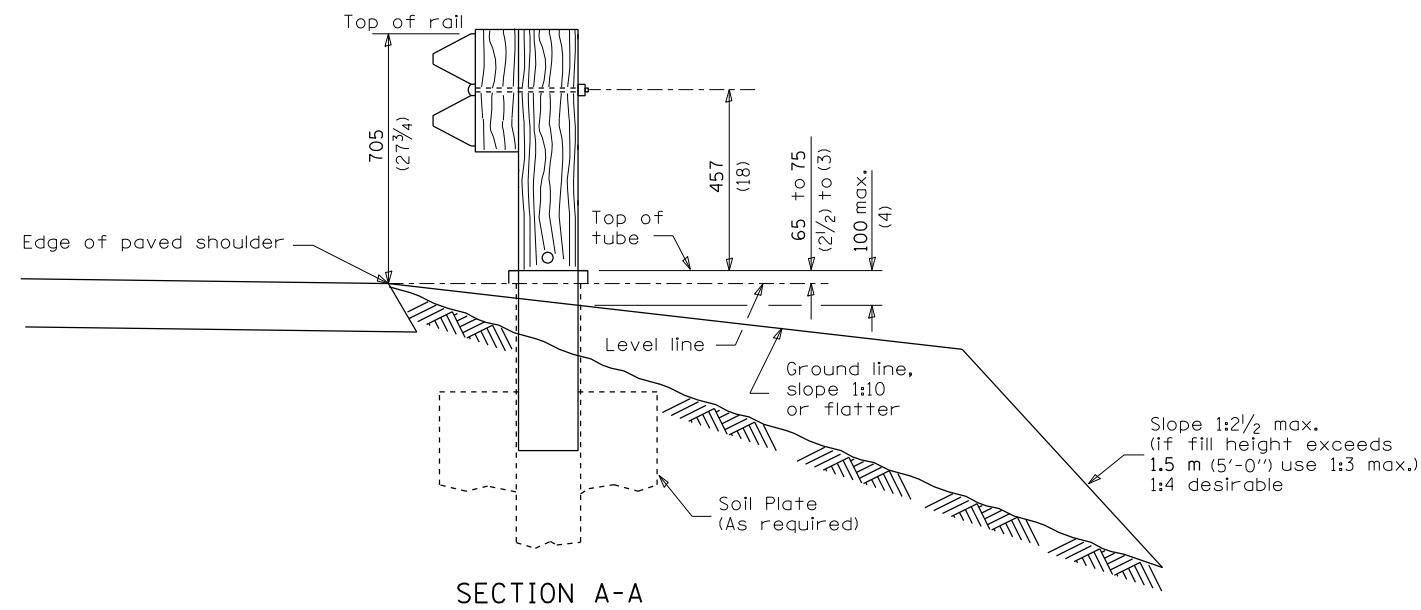
CASE III
MOUNTED ON HEADWALL
WITH CURVED OR DEMOLISHED TIP

CASE IV
MOUNTED ON SLAB

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



**SHOULDER WIDENING TRANSITION
FOR TANGENT TERMINAL**



SECTION A-A

GENERAL NOTES

50:1 Taper required so the guardrail head will not encroach on the shoulder.

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.

FILE NAME =	USER NAME = santiaogct	DESIGNED -	REVISED -
pw:\IL\084EBIDINTEG.illinois.gov\PIDOT\Documents\DOT Offices\District 3\Projects\0366EDRAWING\B3xxxx-sht-cover.dgn		CHECKED -	REVISED -
		DATE -	REVISED -

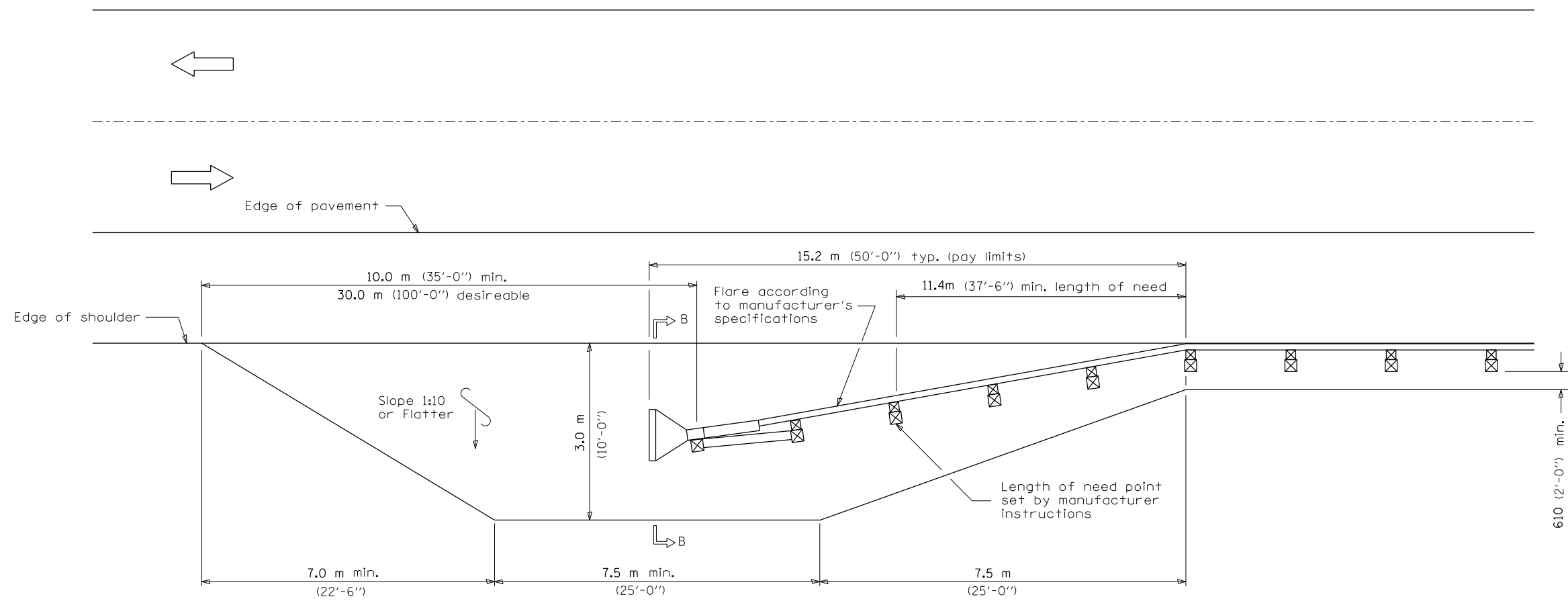
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PRE-MGS EFFECTIVE 4-1-06
SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
STANDARD 630301-03**
(Sheet 1 of 2)

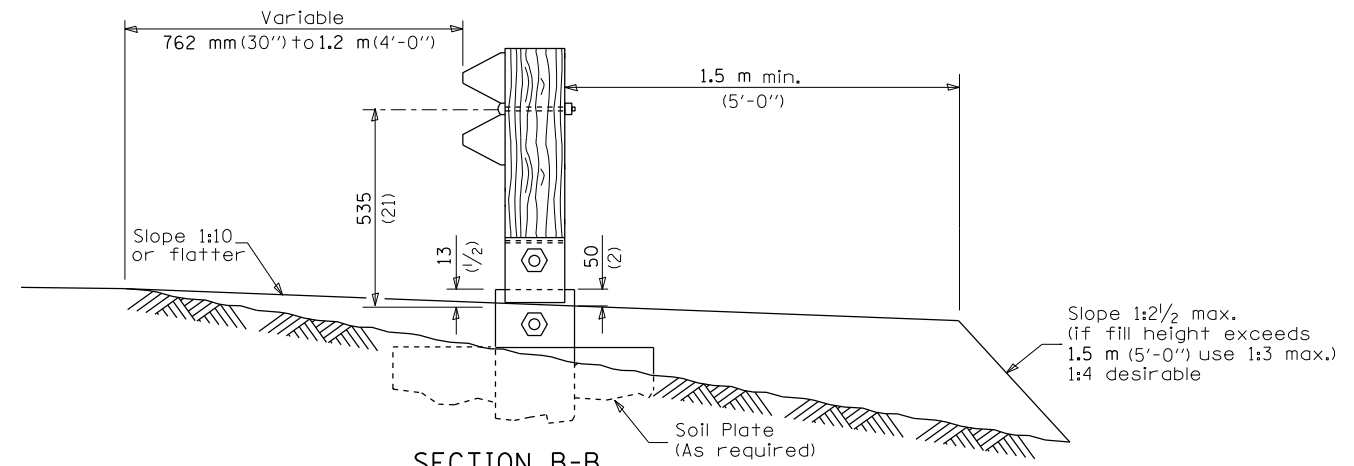
SCALE: _____ SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____

• DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 17

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	•	VAR.	43	29
			CONTRACT NO. 66E94	
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT				



**SHOULDER WIDENING TRANSITION
FOR FLARED TERMINAL**



SECTION B-B
(End section omitted for clarity.)

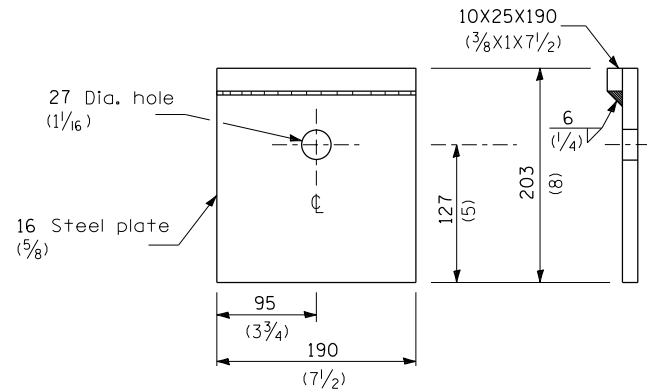
FILE NAME =	USER NAME = santiaogct	DESIGNED -	REVISD -
pw:\IL\084EBIDINTEG.illinois.gov\PWIDOT\Documents\DOT Offices\District 3\Projects\0366EDR\Drawings\B3xxxx-sht-cover.dgn		CHECKED -	REVISD -
		DATE -	REVISD -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

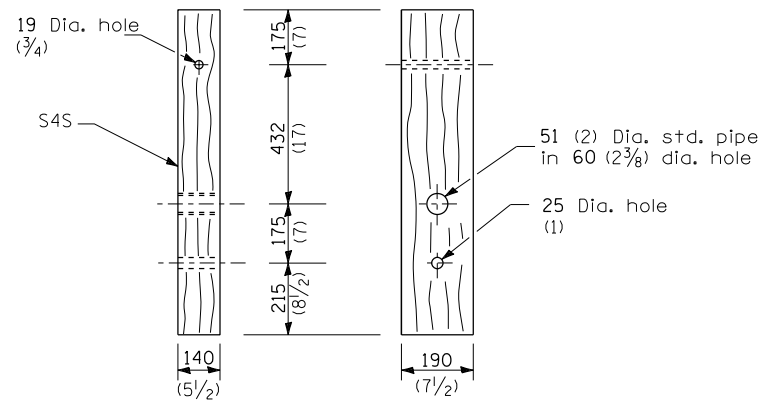
**PRE-MGS EFFECTIVE 4-1-06
SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
STANDARD 630301-03**
(Sheet 2 of 2)

• DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 17			
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS
VAR.	*	VAR.	43
			SHEET NO. 30
			CONTRACT NO. 66E94
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			

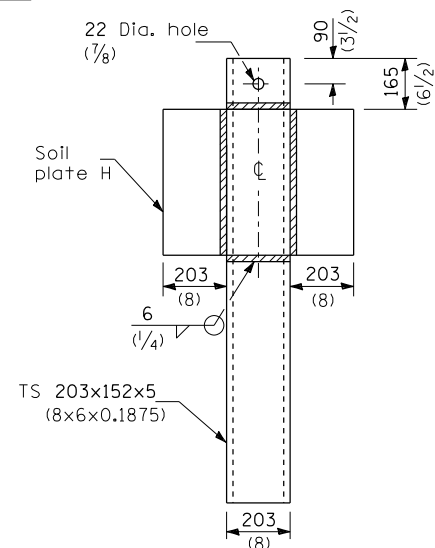
SCALE: _____ SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____



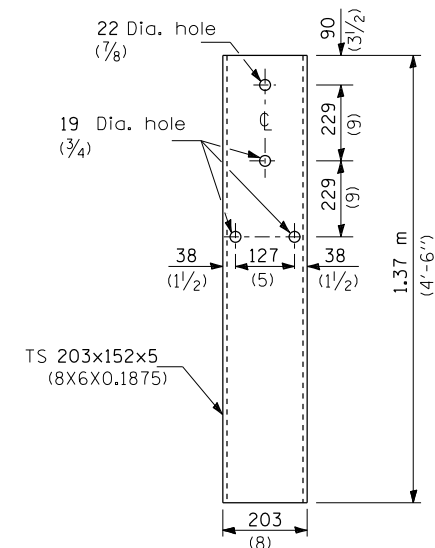
BEARING PLATE K



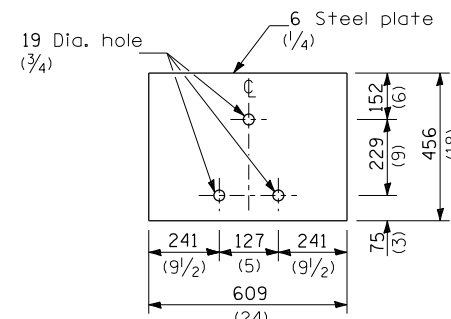
WOOD POST



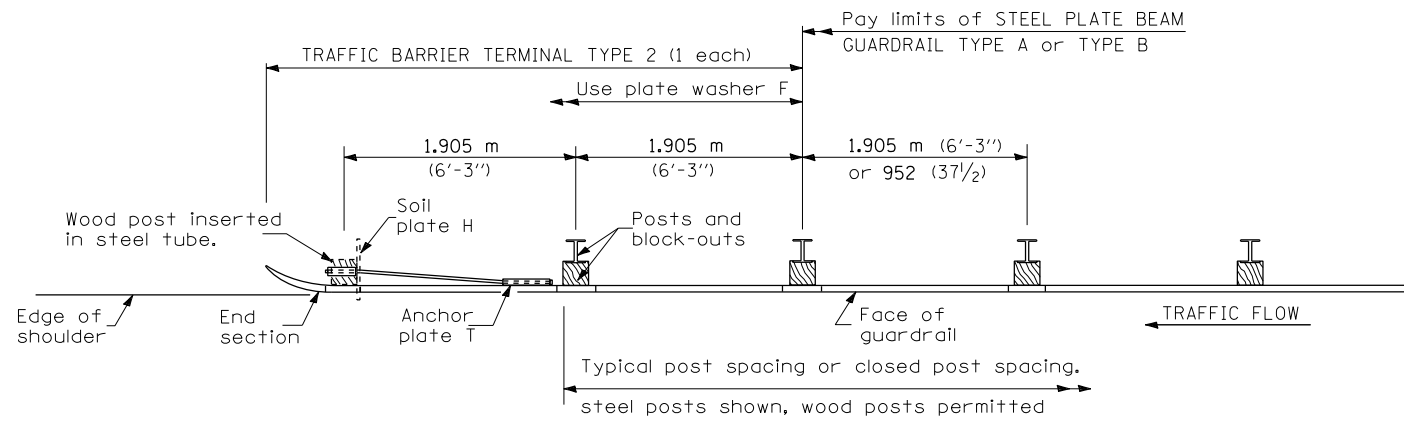
ALTERNATE SOIL PLATE CONNECTION



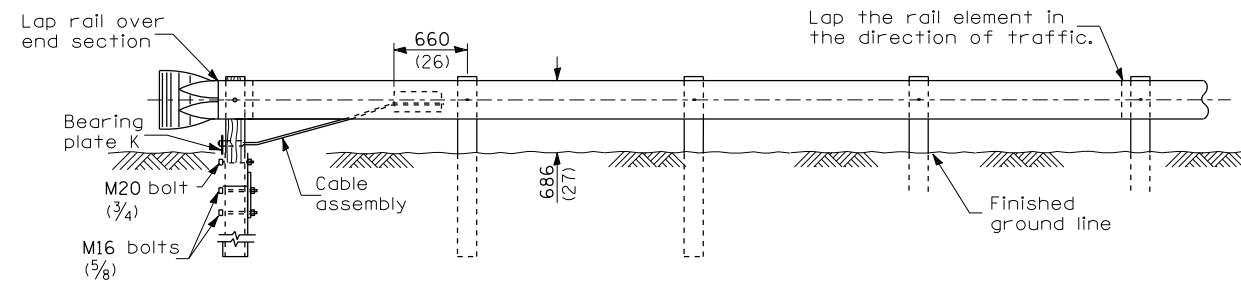
STEEL TUBE



SOIL PLATE H



PLAN



ELEVATION

GENERAL NOTES

See Standard 630001 for details of guardrail not shown.

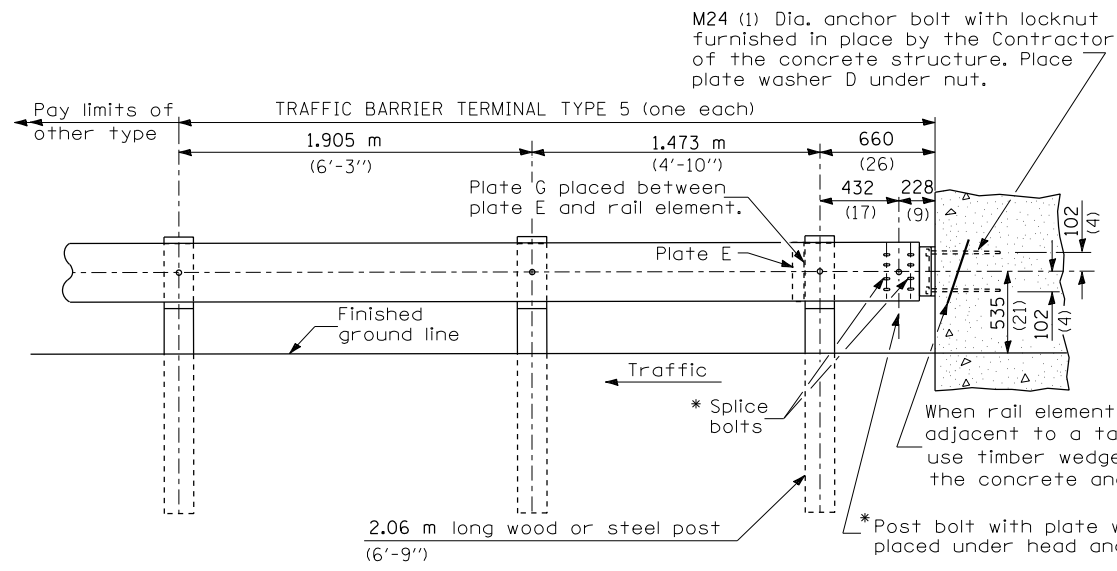
Use plate washer F at all posts.

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.

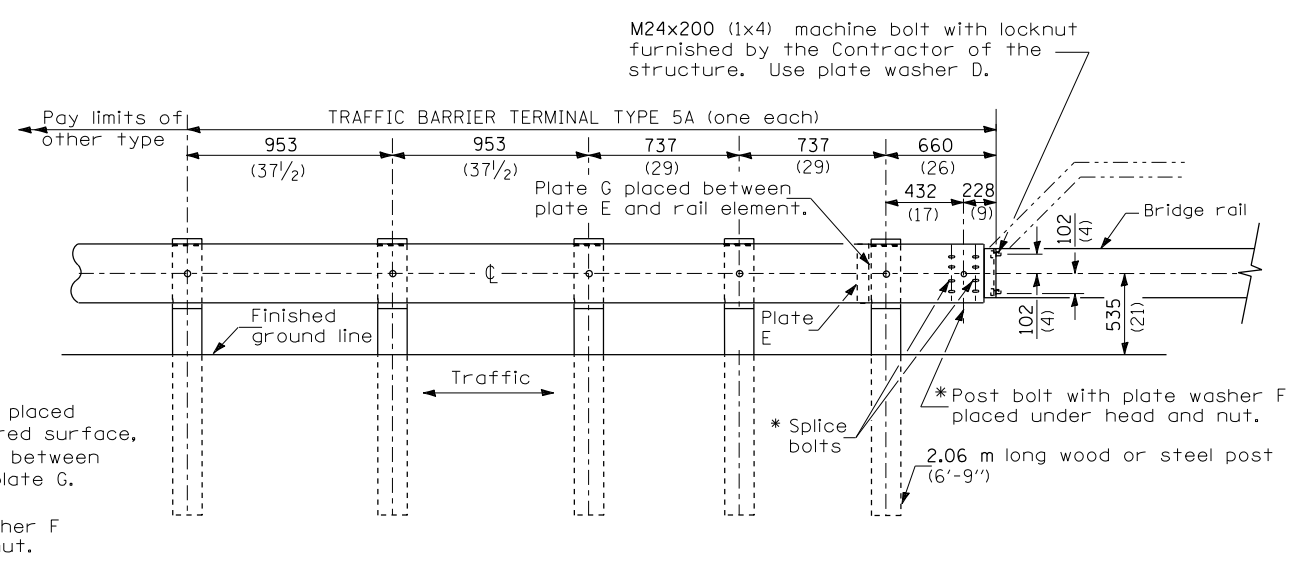
All dimensions are in millimeters (inches) unless otherwise shown.

FILE NAME =	USER NAME = santiaogct	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PRE-MGS EFFECTIVE 4-1-06 TRAFFIC BARRIER TERMINAL TYPE 2 STANDARD 631011-02	F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\IL\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 3\Projects\0366EDR\Drawings\B3xxxxx-sht-cover.dgn	PLOT SCALE = 250000.0000 ' / in.	CHECKED -	REVISED -			VAR.	•	VAR.	43	31	
PLOT DATE = 3/21/2016	DATE -	REVISED -	REVISED -			CONTRACT NO. 66E94		FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			
SCALE: _____ SHEET NO. ___ OF ___ SHEETS		STA. _____ TO STA. _____									

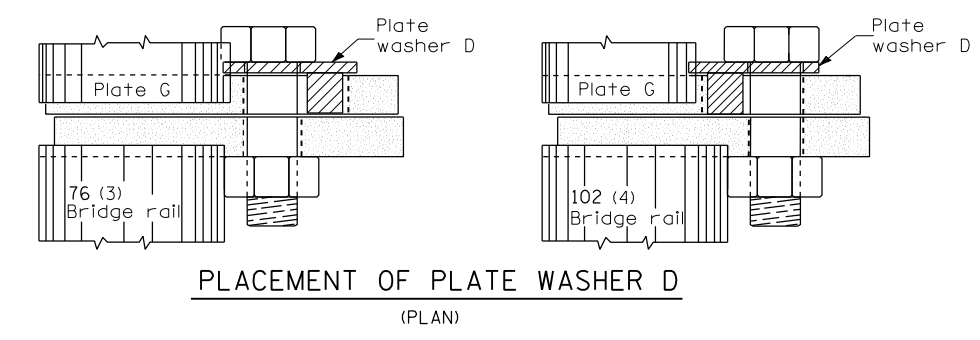
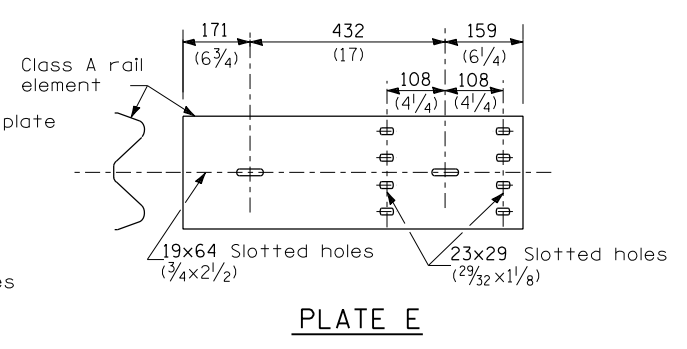
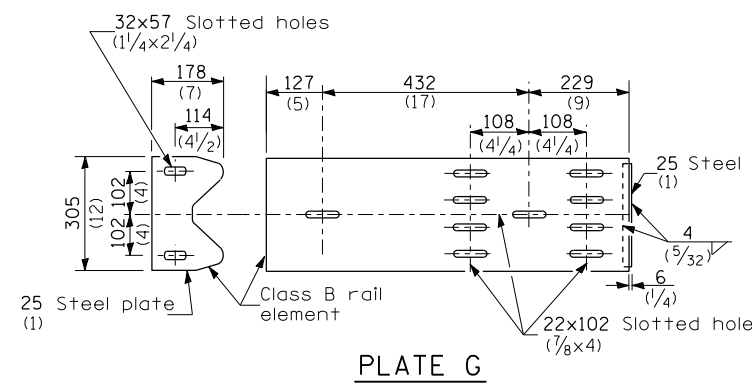
• DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 17



TYPE 5 - CONCRETE BRIDGE PARAPET

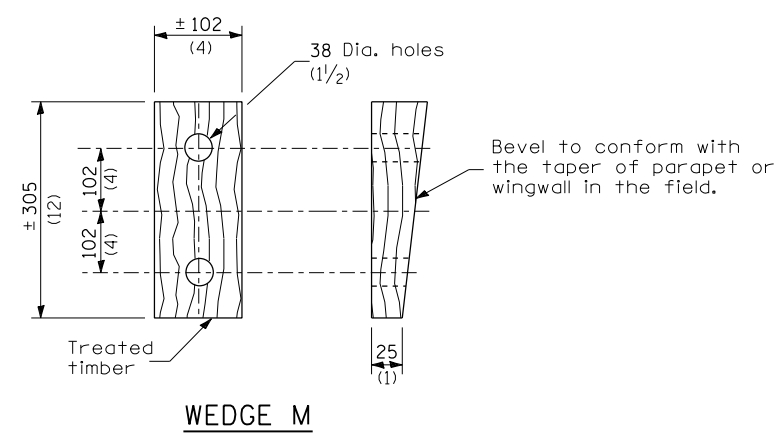
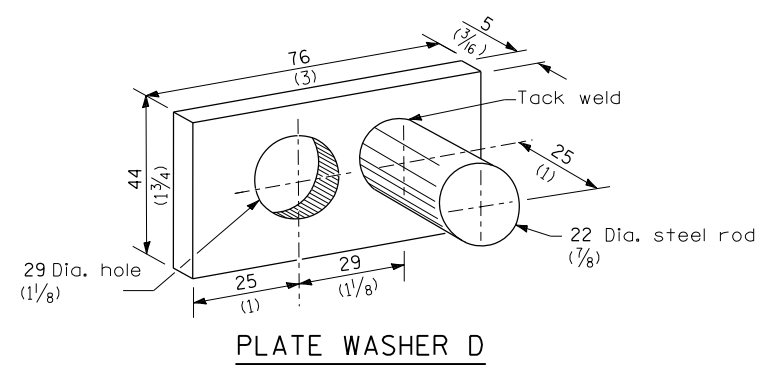


TYPE 5A - STEEL BRIDGE RAIL

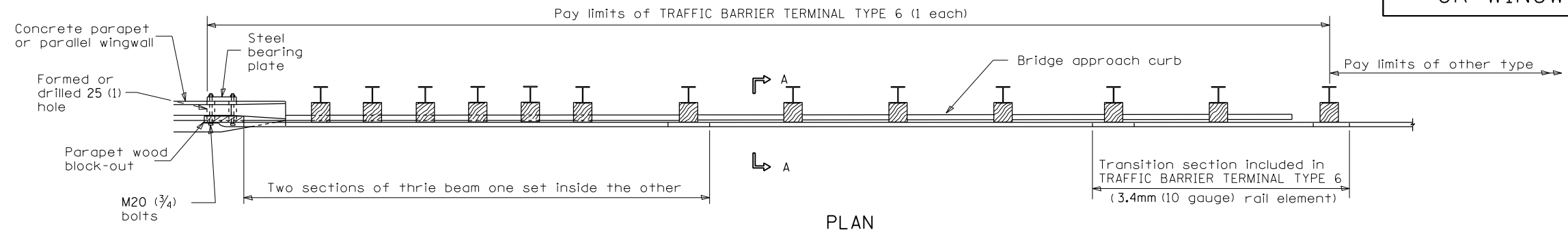


GENERAL NOTES

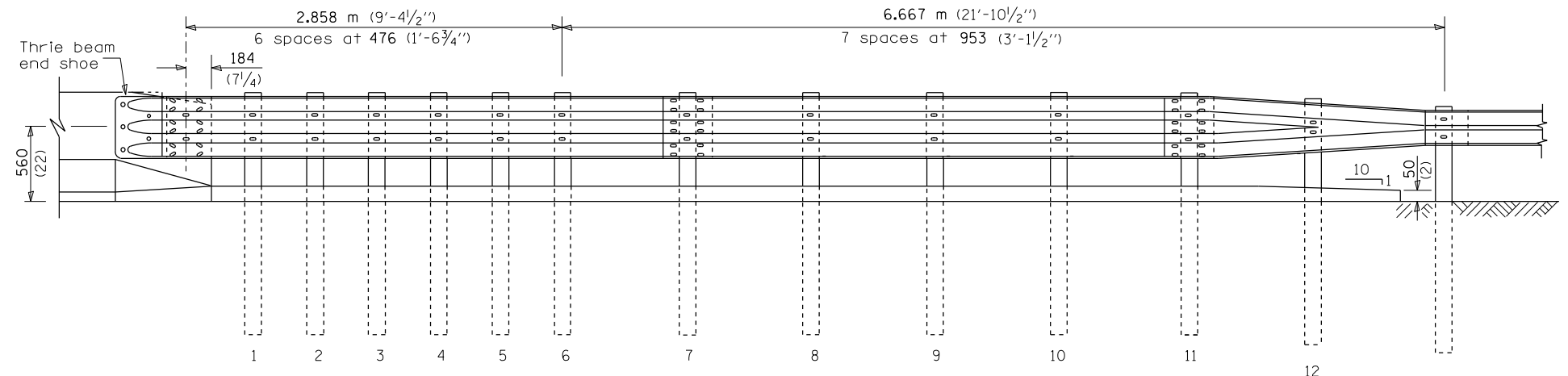
- Install plate washer D so that the 25 mm (1") projection fills the remainder of the slotted holes in the 25 mm (1") end plate on plate G after the M24 (1") dia. bolts are in place.
- * Bolts shall be provided with locknut or double nut and shall be tightened only to a point that will allow plate G to be free to move when an expansion joint exists below the connector.
- See Standard 630001 for details of guardrail not shown.
- All dimensions are in millimeters (inches) unless otherwise shown.



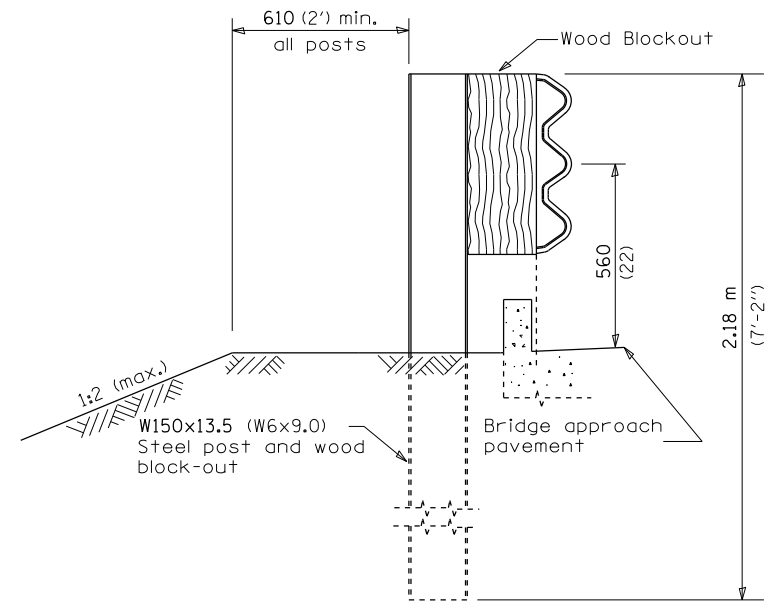
PARAPET
OR WINGWALL



PLAN



ELEVATION



SECTION A-A

GENERAL NOTES

- See Standard 630001 for details of guardrail not shown.
- Thrie beam rail shall be bolted to block-out at all posts.
- See Standard 420401 for details of bridge approach pavement.
- 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.

FILE NAME =	USER NAME = santiaogct	DESIGNED -	REVISED -
p:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 3\Projects\0366\DRAWING\0366xxx-sht-cover.dgn		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

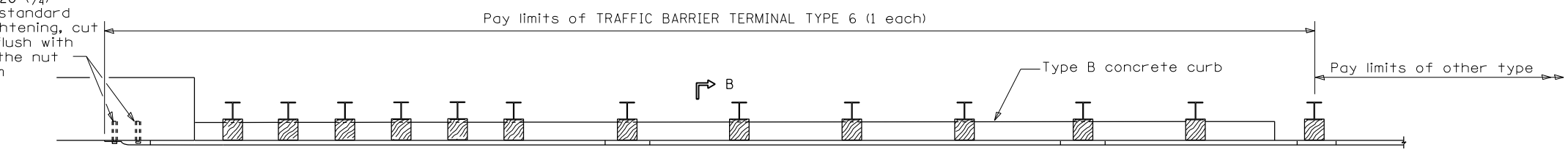
PRE-MGS EFFECTIVE 4-1-06		TRAFFIC BARRIER TERMINAL, TYPE 6		STANDARD 631031-05		Sheet 1 of 3	
SCALE:	SHEET NO. ___ OF ___ SHEETS	STA. _____	TO STA. _____				

• DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 17

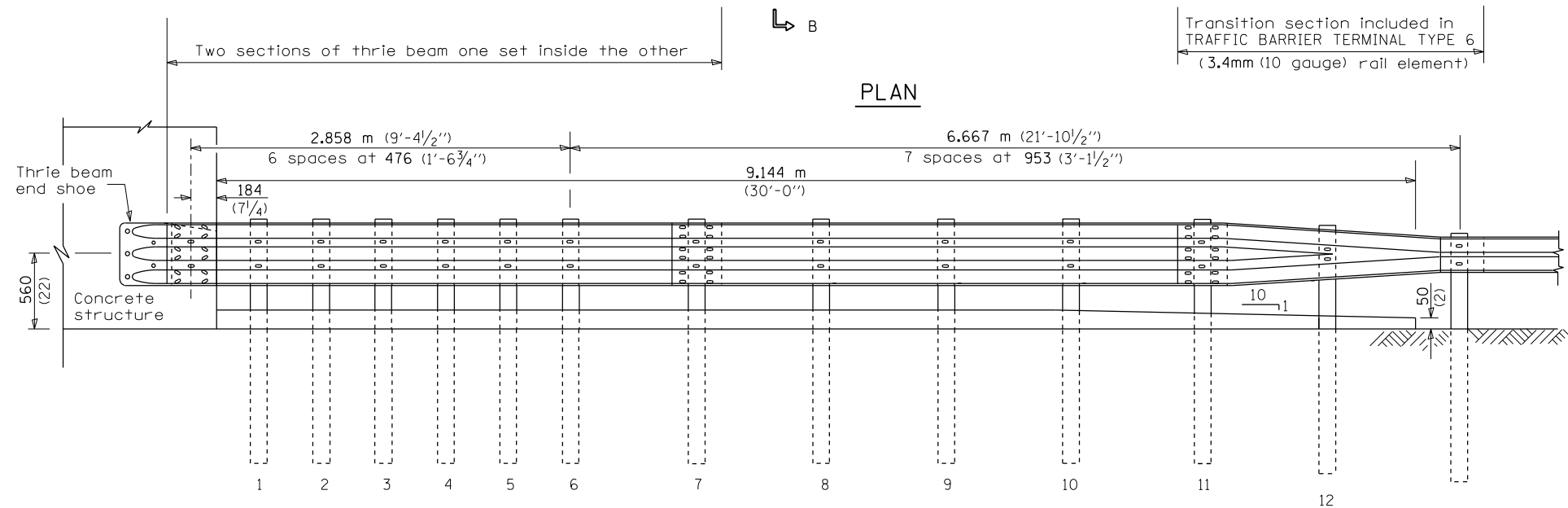
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	•	VAR.	43	33
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT			CONTRACT NO. 66E94	

5 Epoxy grouted M20 (¾) anchor bolts with standard washers. After tightening, cut the anchor bolts flush with nuts, and damage the nut to prevent it from loosening.

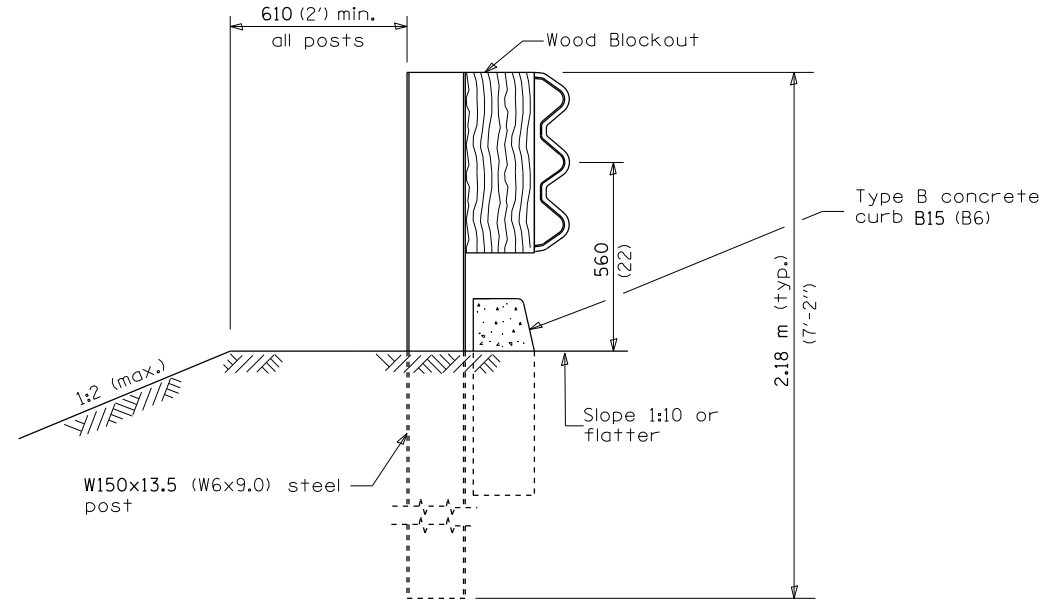
OTHER CONCRETE STRUCTURE



PLAN



ELEVATION



SECTION B-B

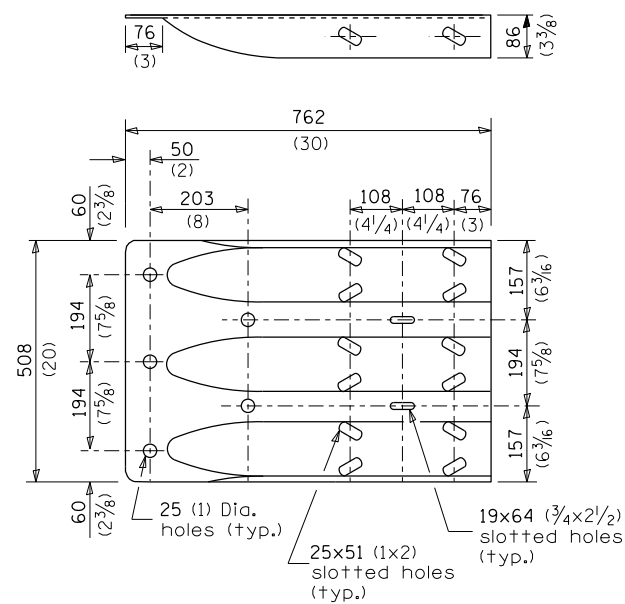
FILE NAME =	USER NAME = santiaogct	DESIGNED -	REVISED -
p:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 3\Projects\0366\DRAWING\B3xxxx-sht-cover.dgn		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

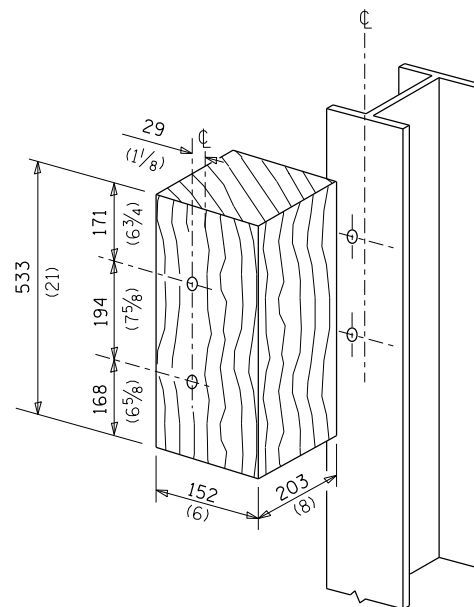
PRE-MGS EFFECTIVE 4-1-06			
TRAFFIC BARRIER TERMINAL, TYPE 6			
STANDARD 631031-05			
SCALE: _____		SHEET NO. ____ OF ____ SHEETS	
STA. _____		TO STA. _____	
Sheet 2 of 3			

• DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 17

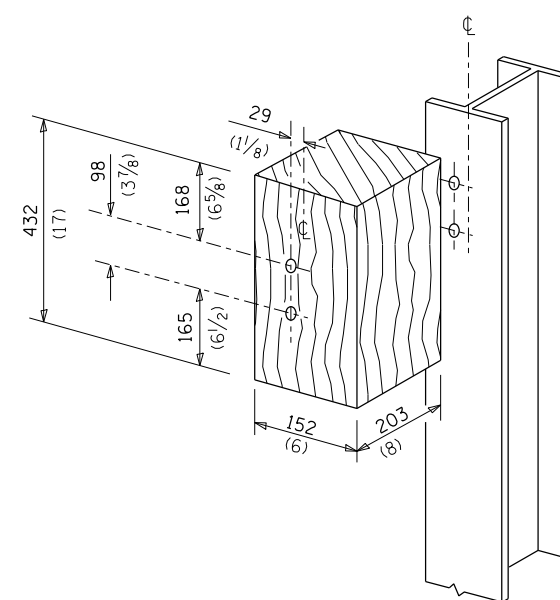
F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	.	VAR.	43	34
				CONTRACT NO. 66E94
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT				



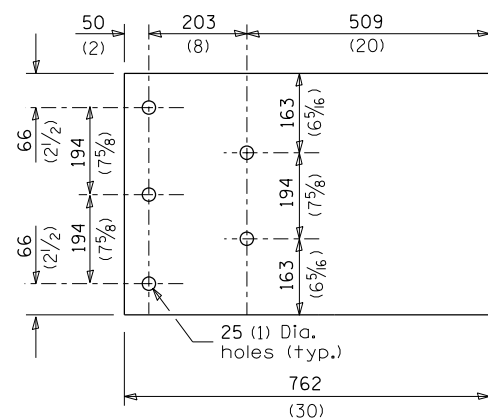
THRIE BEAM END SHOE DETAIL



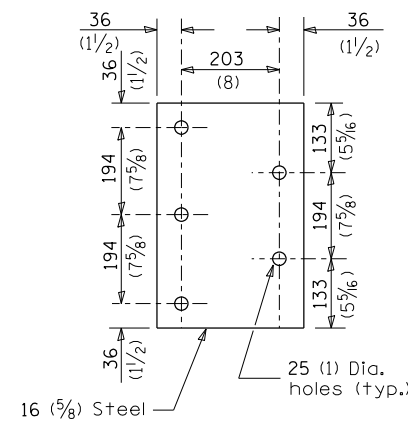
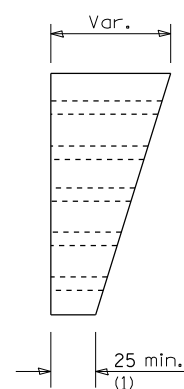
POSTS 1-11 WOOD BLOCKOUT DETAIL



POST 12 WOOD BLOCKOUT DETAIL



PARAPET WOOD BLOCK-OUT DETAIL



PARAPET STEEL BEARING PLATE DETAIL

(5 each individual 125x125x16 (5x5x5/8) steel plates with centered 25 (1) holes may be substituted for the plate shown.)

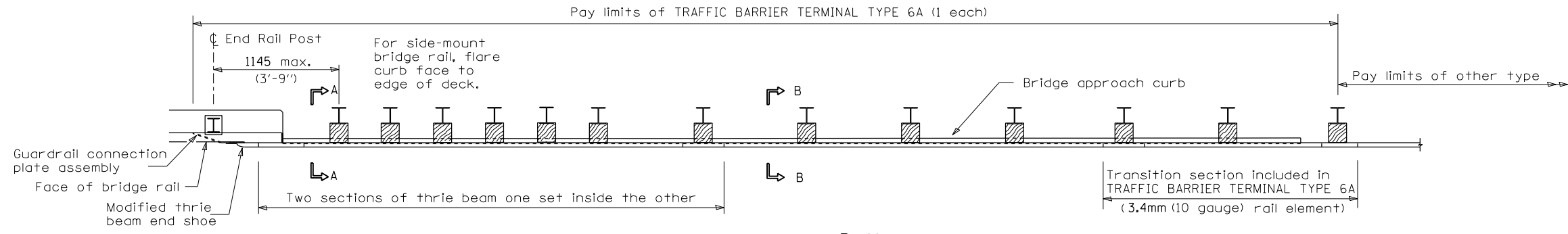
FILE NAME =	USER NAME = santiaogct	DESIGNED -	REVISED -
pw:\IL\084EBIDINTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 3\Projects\0366EDRAWING\B3xxxxx-sht-cover.dgn		CHECKED -	REVISED -
PLOT SCALE = 250000.0000 / in.		DATE -	REVISED -
PLOT DATE = 3/21/2016			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRE-MGS EFFECTIVE 4-1-06
TRAFFIC BARRIER TERMINAL, TYPE 6
STANDARD 631031-05

Sheet 3 of 3

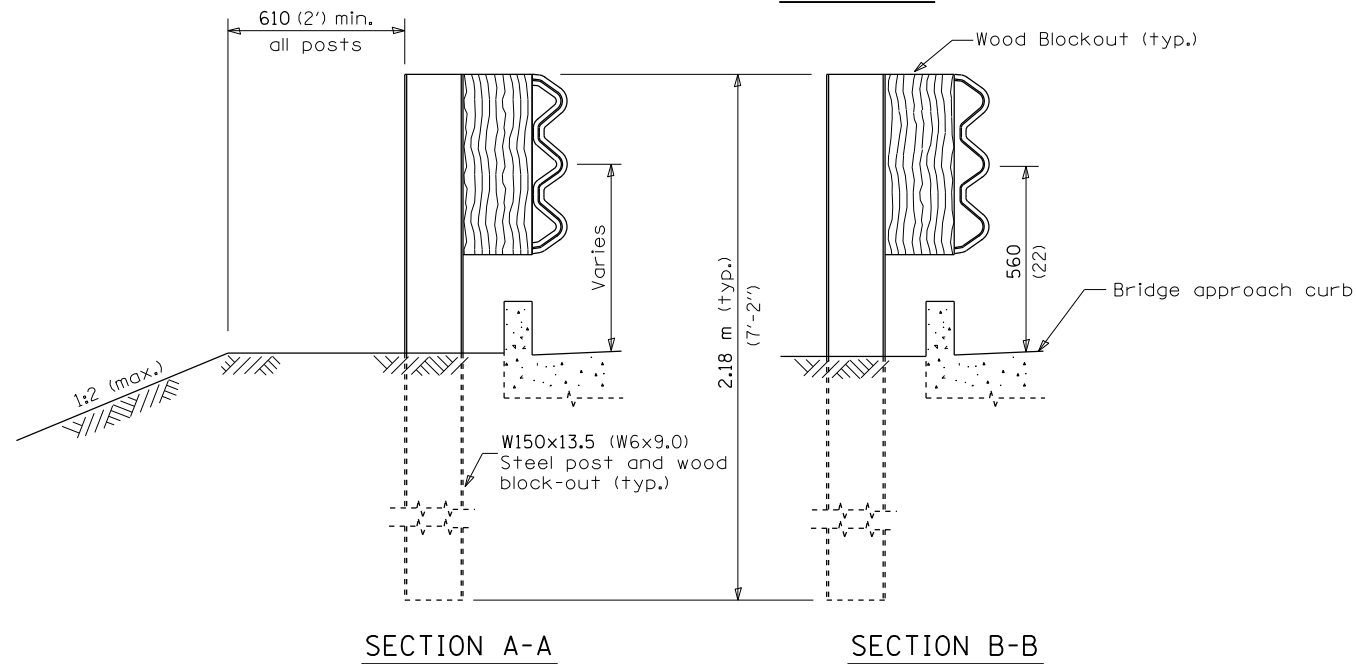
SCALE: _____	SHEET NO. _____ OF _____ SHEETS	STA. _____ TO STA. _____	• DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 17 F.A. R.T.E. SECTION COUNTY TOTAL SHEETS SHEET NO. VAR. • VAR. 43 35 CONTRACT NO. 66E94 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	
--------------	---------------------------------	--------------------------	---	--



PLAN



ELEVATION



GENERAL NOTES

This standard shows attachment to curb mounted bridge rail. Attachment to side mounted bridge rail is similar.

See Standard 630001 for details of guardrail not shown.

Thrie beam rail shall be bolted to block-out at all posts.

See Standard 420401 for details of bridge approach pavement.

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.

FILE NAME =	USER NAME = santiaogct	DESIGNED -	REVISED -
pw:\IL\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 3\Projects\0366EDRAWING\0366EDRAWING\B3xxxx-sht-cover.dgn		CHECKED -	REVISED -
PLOT SCALE = 250000.0000 / in.		DATE -	REVISED -
PLOT DATE = 3/21/2016			

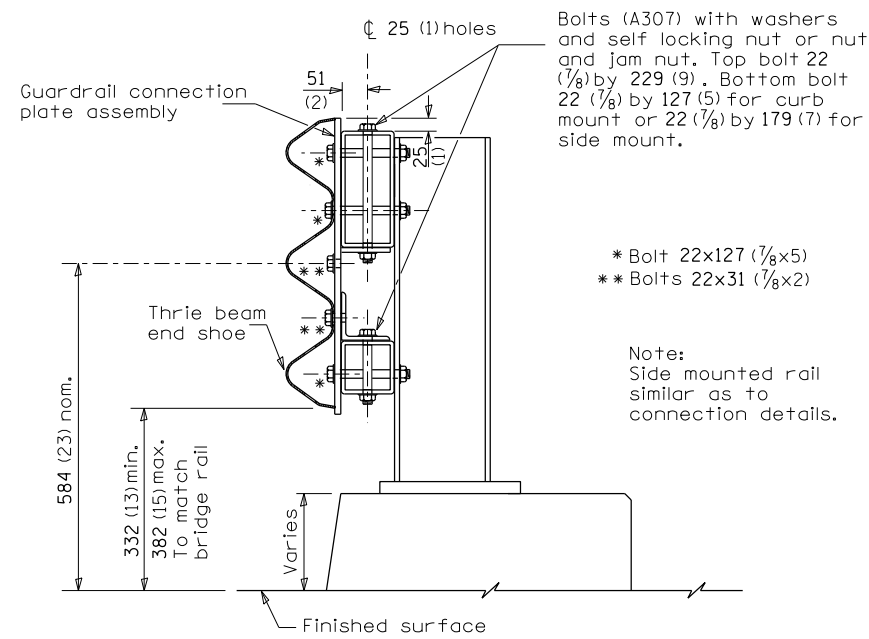
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRE-MGS EFFECTIVE 4-1-06
TRAFFIC BARRIER TERMINAL, TYPE 6A
STANDARD 631032-02

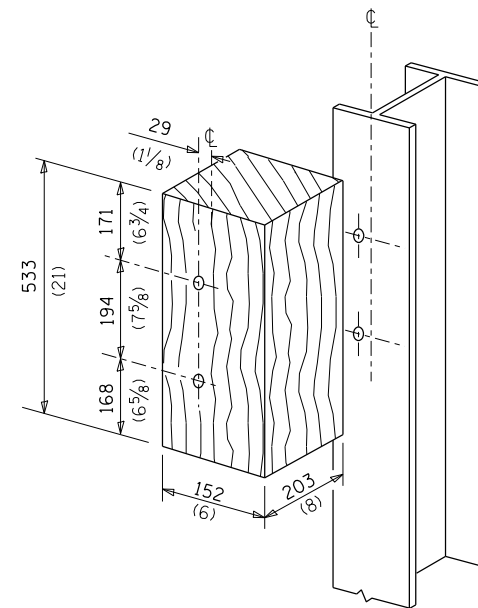
Sheet 1 of 3

SCALE: _____	SHEET NO. _____ OF _____ SHEETS	STA. _____ TO STA. _____	<table border="1"> <tr> <td>F.A. RTÉ.</td> <td>SECTION</td> <td>COUNTY</td> <td>TOTAL SHEETS</td> <td>SHEET NO.</td> </tr> <tr> <td>VAR.</td> <td>.</td> <td>VAR.</td> <td>43</td> <td>36</td> </tr> </table>		F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	VAR.	.	VAR.	43	36
F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.										
VAR.	.	VAR.	43	36										
			CONTRACT NO. 66E94 <small>FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT</small>											

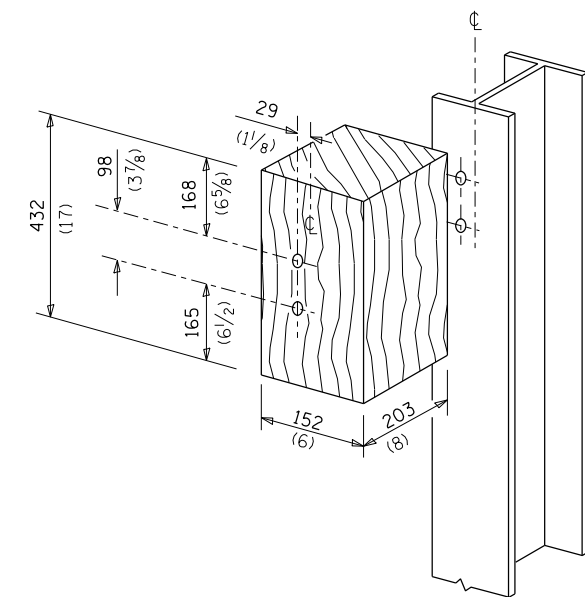
• DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 17



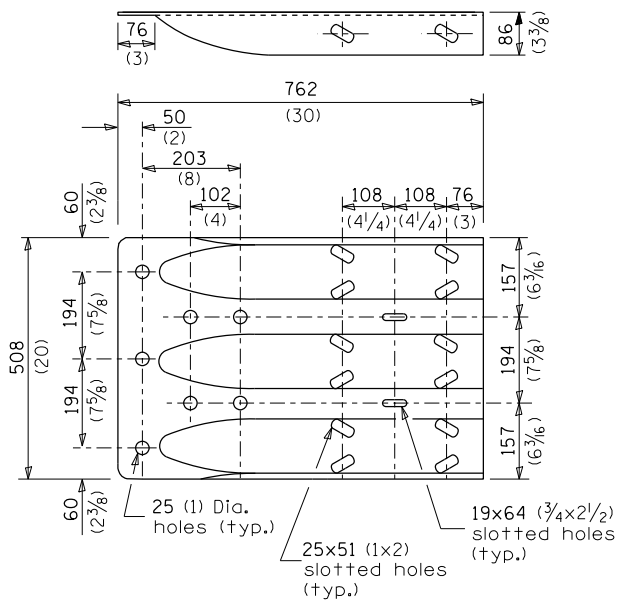
SECTION C-C



POSTS 1-11 WOOD BLOCKOUT DETAIL



POST 12 WOOD BLOCKOUT DETAIL



MODIFIED THRIE BEAM END SHOE DETAIL

FILE NAME =	USER NAME = santiaogct	DESIGNED -	REVISED -
pw:\IL\084EBIDINTEG.illinois.gov\PWIDOT\Documents\DOT Offices\District 3\Projects\0366EDRAWING\B3xxxxx-sht-cover.dgn		CHECKED -	REVISED -
PLOT SCALE = 250000.0000 ' / in.		DATE -	REVISED -
PLOT DATE = 3/21/2016			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

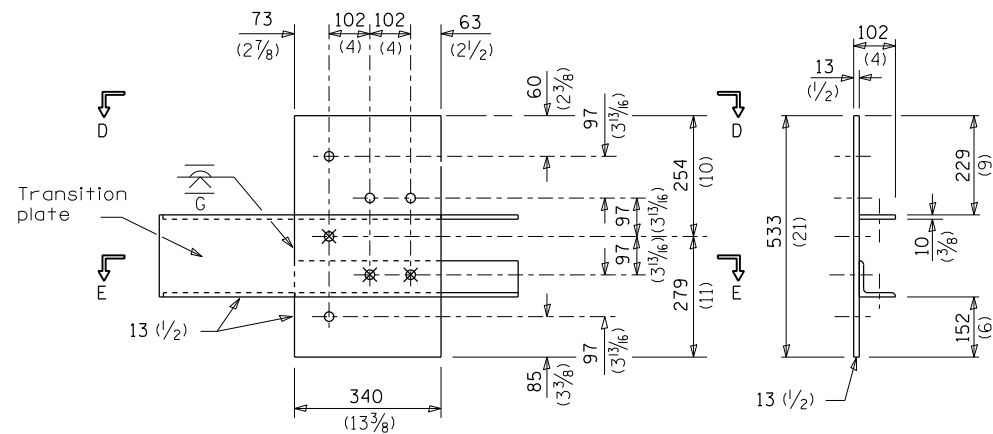
PRE-MGS EFFECTIVE 4-1-06
TRAFFIC BARRIER TERMINAL, TYPE 6A
STANDARD 631032-02

Sheet 2 of 3

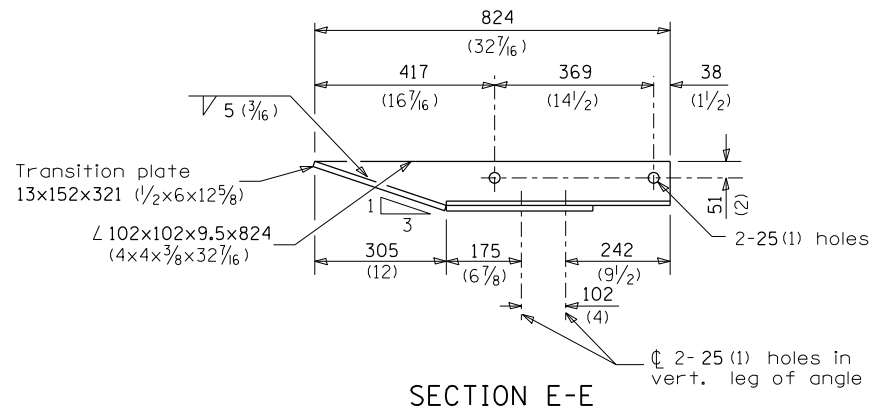
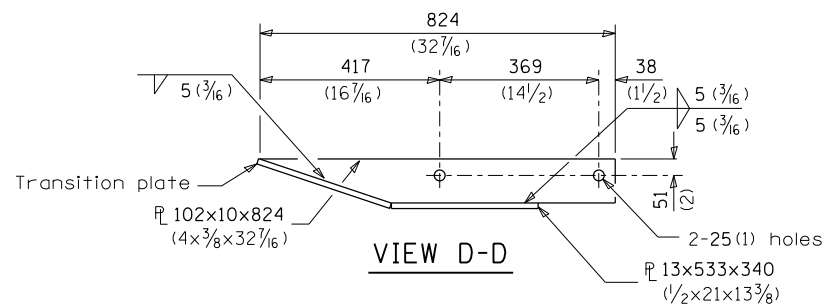
SCALE: _____ SHEET NO. ____ OF ____ SHEETS STA. _____ TO STA. _____

• DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 17

F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	•	VAR.	43	37
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 66E94	



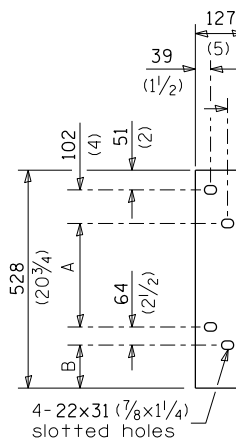
GUARDRAIL CONNECTION PLATE ASSEMBLY DETAILS
(Mirror for opposite end)



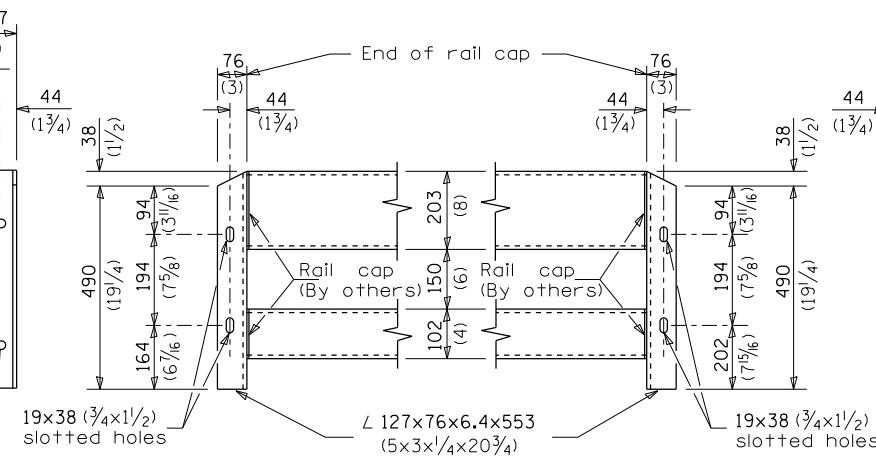
- \varnothing 4-25(1) holes for 22 (7/8) H.S. bolts and nuts
 ✕ Drill and tap 3 holes for 22 (7/8) H.S. bolts.

LEGEND

Dimensions	A	B
For Curb Mounted Rail	222 (8 3/4)	89 (3 1/2)
For Side Mounted Rail	247 (9 3/4)	64 (2 1/2)

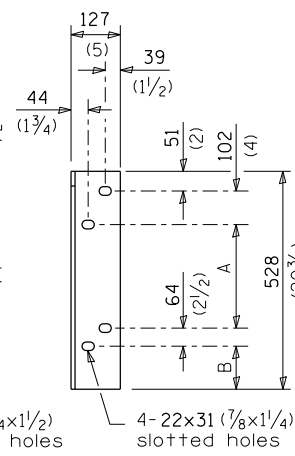


DEPARTURE END VIEW

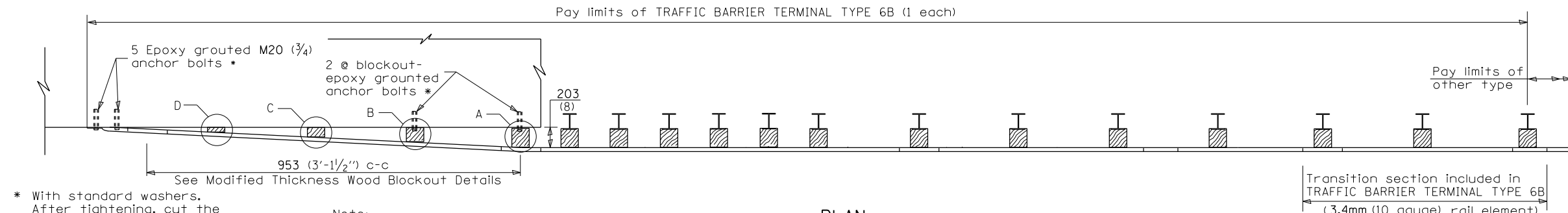


CONNECTION ANGLES

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



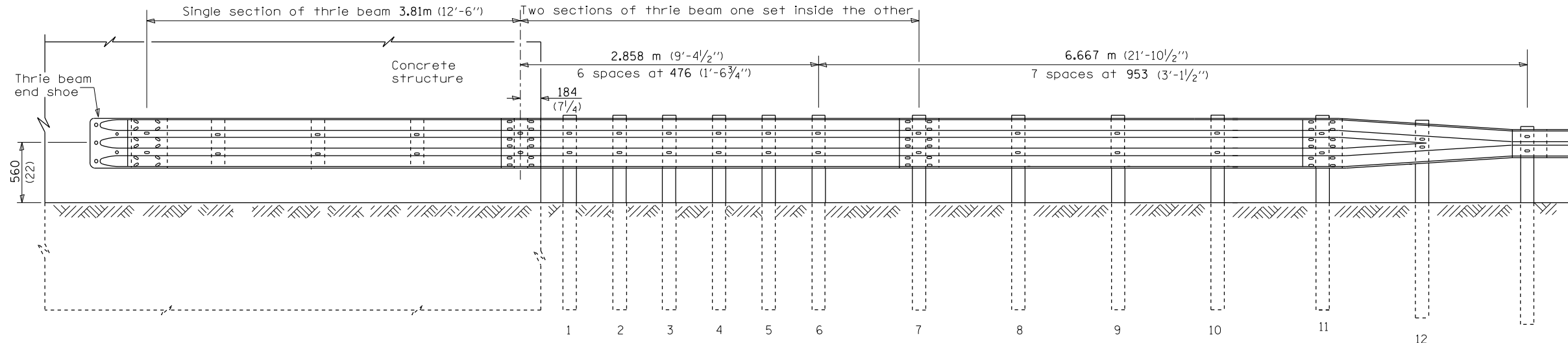
APPROACH END VIEW



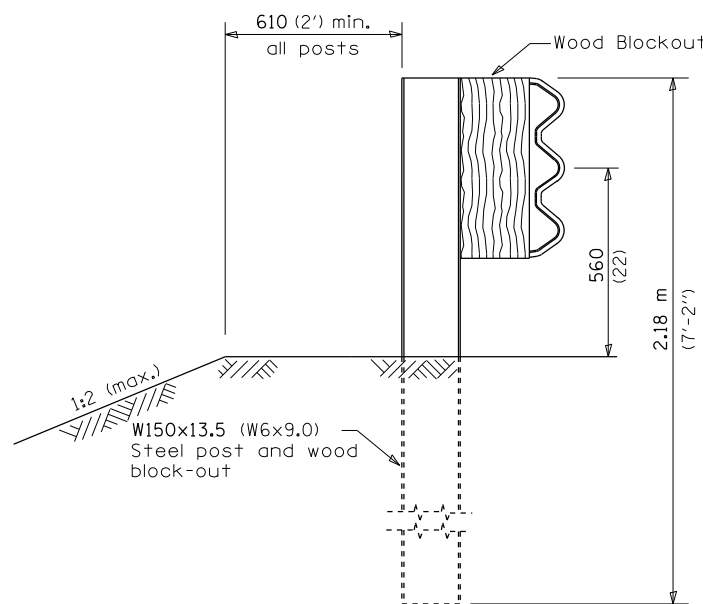
* With standard washers. After tightening, cut the anchor bolts flush with nuts, and damage the nut to prevent it from loosening.

Note: See wood block details A, B, C. & D

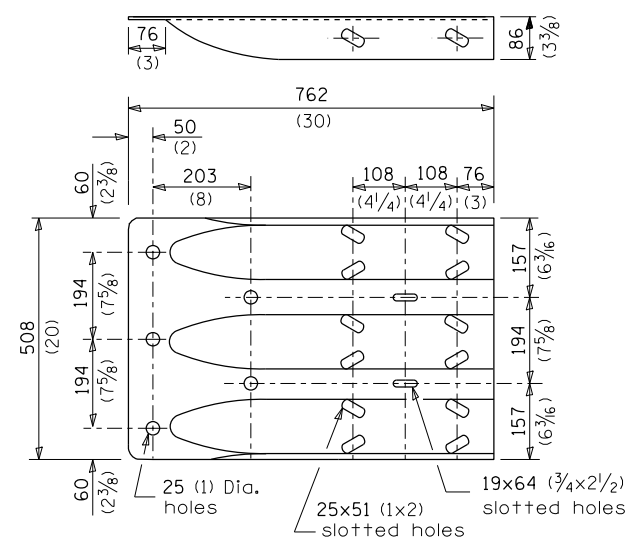
PLAN



ELEVATION



SECTION A-A



THRIE BEAM END SHOE DETAIL

GENERAL NOTES

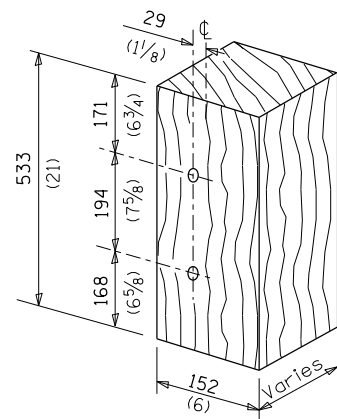
See Standard 630001 for details of guardrail not shown.

Thrie beam rail shall be bolted to block-out at all posts.

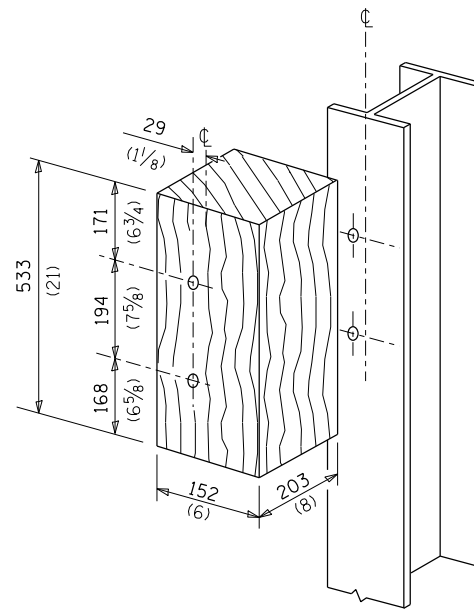
All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

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

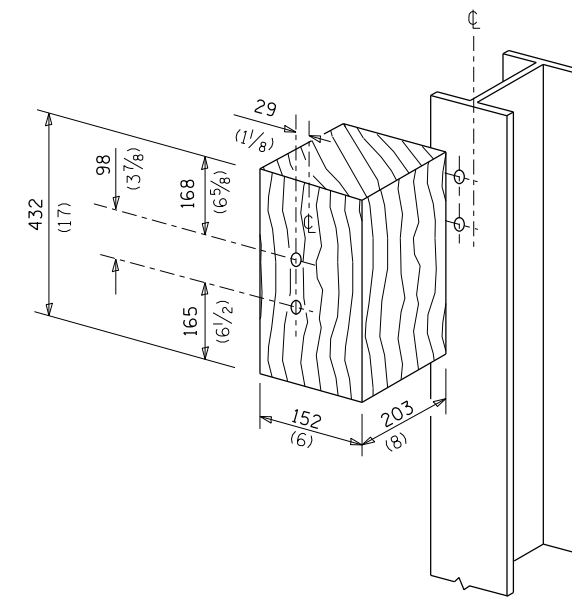
FILE NAME =	USER NAME = santiaogoc	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PRE-MGS EFFECTIVE 4-1-06		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED -		TRAFFIC BARRIER TERMINAL, TYPE 6B	VAR.	VAR.	43	39		
PLOT SCALE = 250000.0000 / in.		DATE -	REVISED -	STANDARD 631033-01		Sheet 1 of 2		CONTRACT NO. 66E94			
PLOT DATE = 3/21/2016				SCALE: _____	SHEET NO. _____ OF _____ SHEETS	STA. _____ TO STA. _____	FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT				



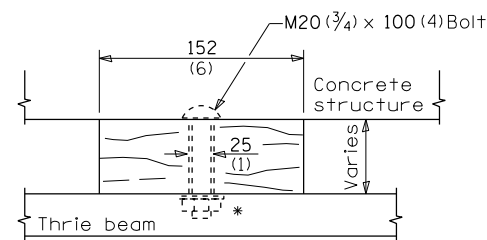
MODIFIED THICKNESS WOOD BLOCKOUT DETAIL



POSTS 1-11 WOOD BLOCKOUT DETAIL

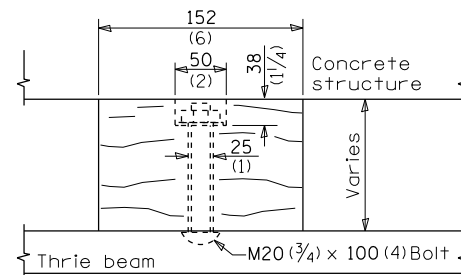


POST 12 WOOD BLOCKOUT DETAIL

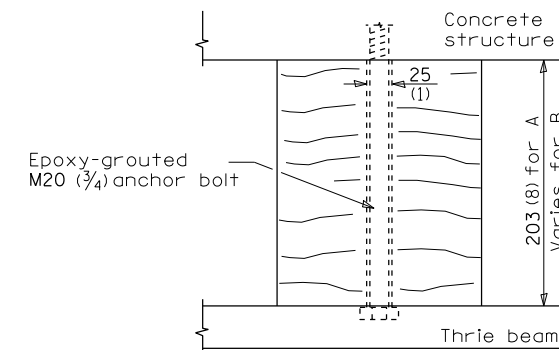


WOOD BLOCKOUT D

Bolt to thrie beam with M20 (3/4) by 100 (4) bolt, washer & nut. Reverse direction of insertion. *



WOOD BLOCKOUT C



WOOD BLOCKOUT A & B

FILE NAME =	USER NAME = santiaogct	DESIGNED -	REVISED -
pw:\IL\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 3\Projects\0366EDRAWING\084EBIDINTEG\B3xxxxx-sht-cover.dgn		CHECKED -	REVISED -
PLOT SCALE = 250000.0000 ' / in.		DATE -	REVISED -
PLOT DATE = 3/21/2016			

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

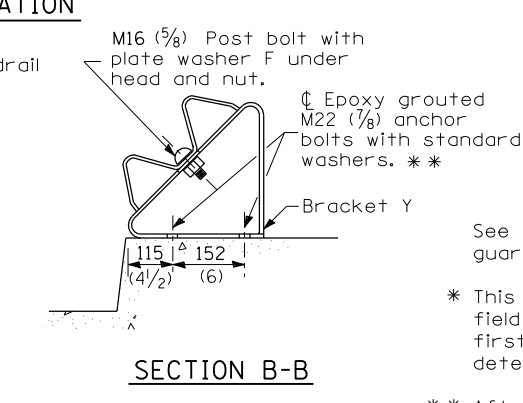
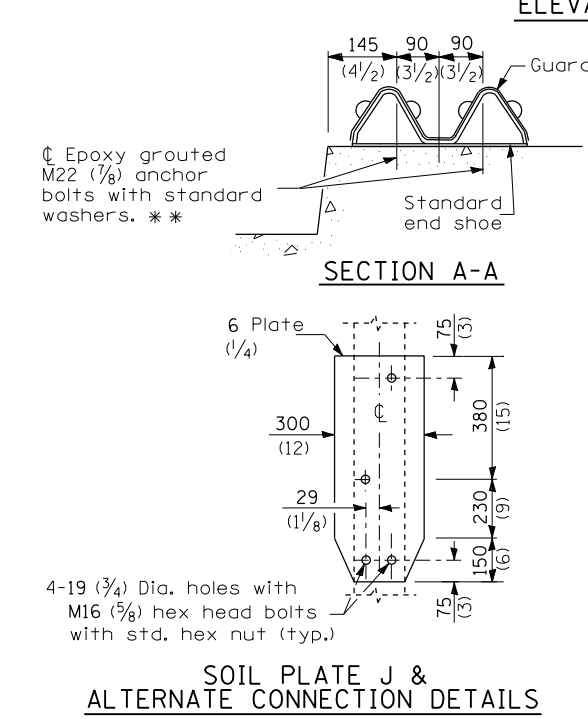
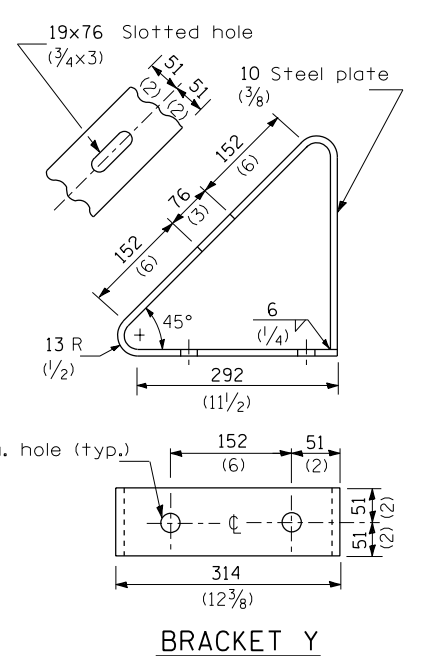
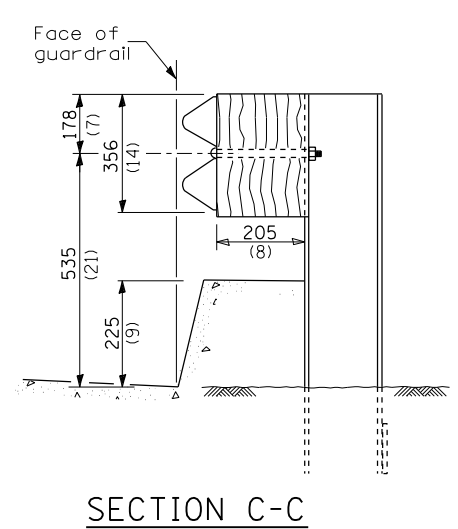
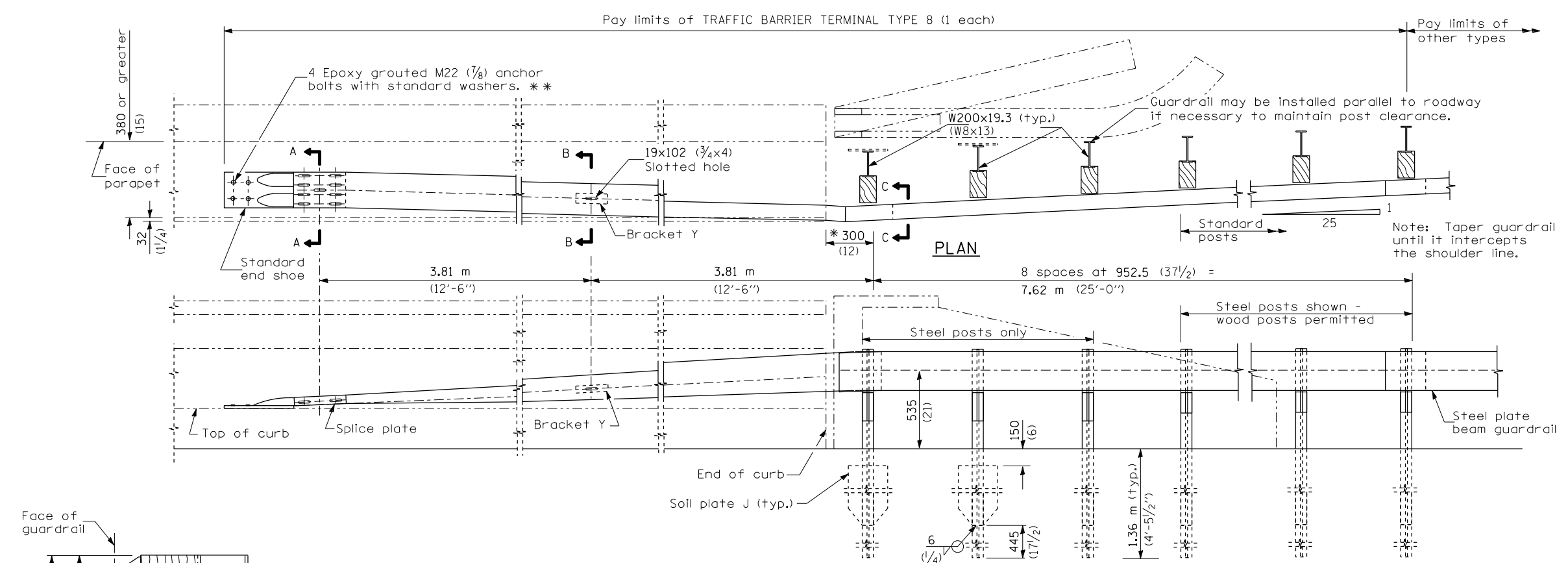
**PRE-MGS EFFECTIVE 4-1-06
TRAFFIC BARRIER TERMINAL, TYPE 6B
STANDARD 631033-01**

Sheet 2 of 2

SCALE: _____ SHEET NO. ____ OF ____ SHEETS STA. _____ TO STA. _____

• DISTRICT 3 HIGHWAY DAMAGE REPAIR FY 17

F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	•	VAR.	43	40
			CONTRACT NO. 66E94	
FED. ROAD DIST. NO. _ [ILLINOIS] FED. AID PROJECT				



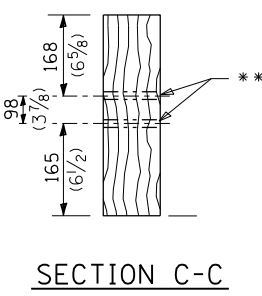
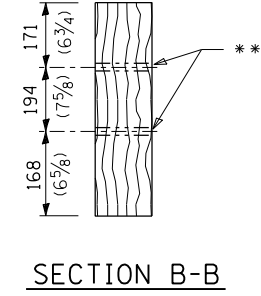
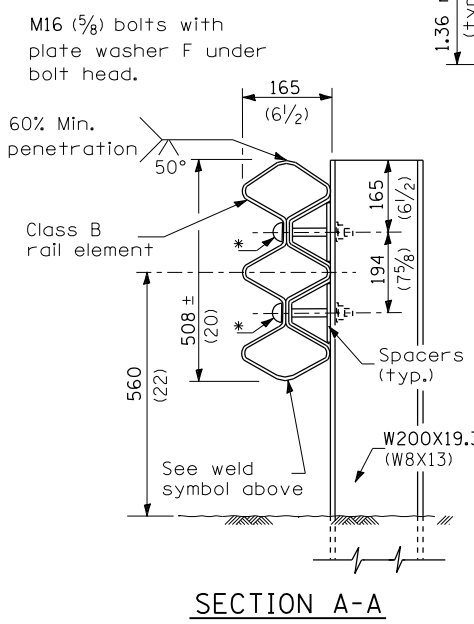
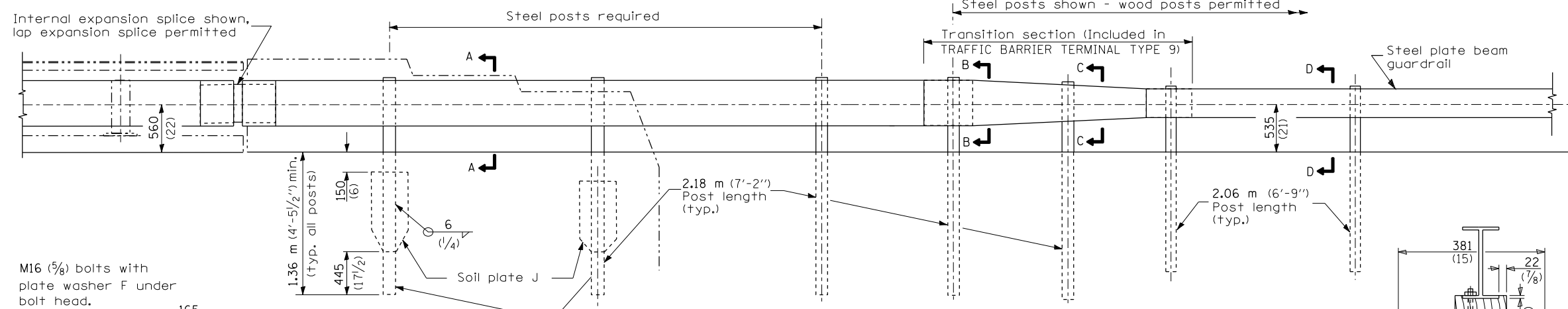
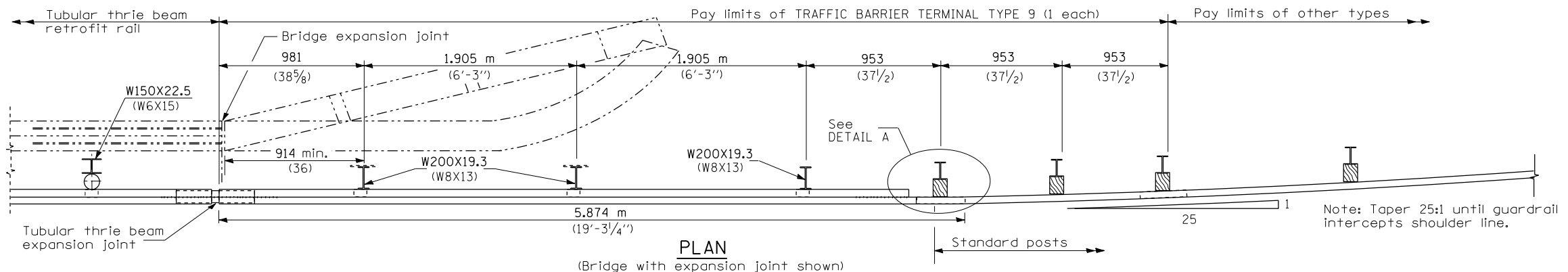
GENERAL NOTES

See Standard 630001 for details of guardrail not shown.

* This dimension may be increased to fit field conditions. This post shall be located first. The layout of the terminal shall be determined by its location.

** After tightening, cut the anchor bolts flush with nuts, and damage the bolt head to prevent them from loosening.

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

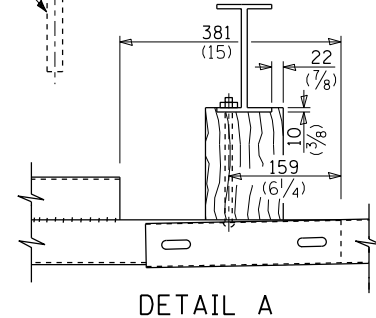
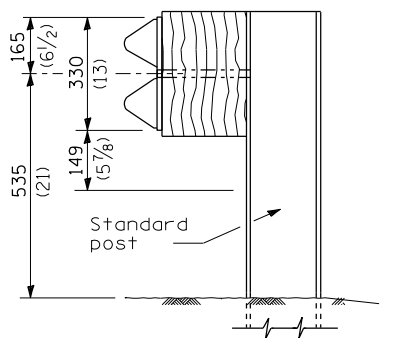
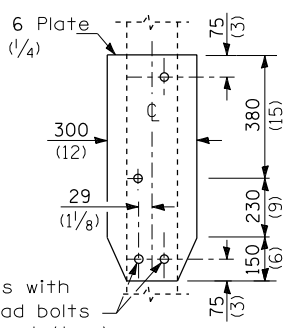


DETAILS of BLOCK-OUTS

** ⌀ 19 (3/4) Dia. hole

4-19 (3/4) Dia. holes with M16 (5/8) hex head bolts with std. hex nut (typ.)

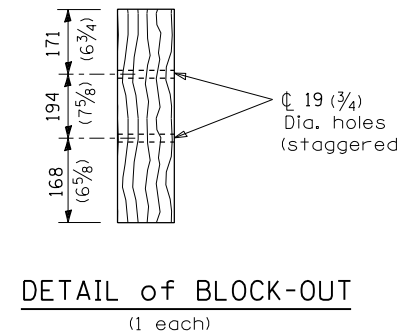
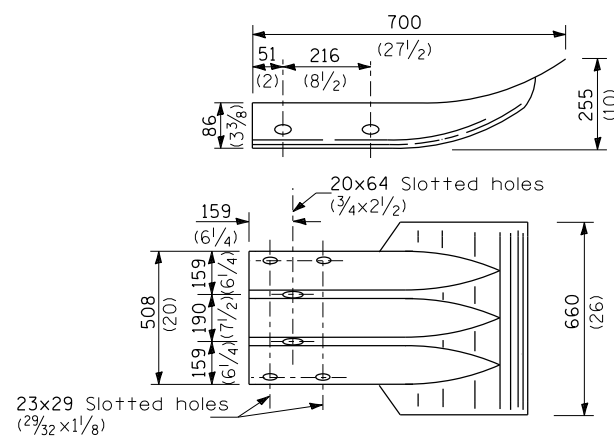
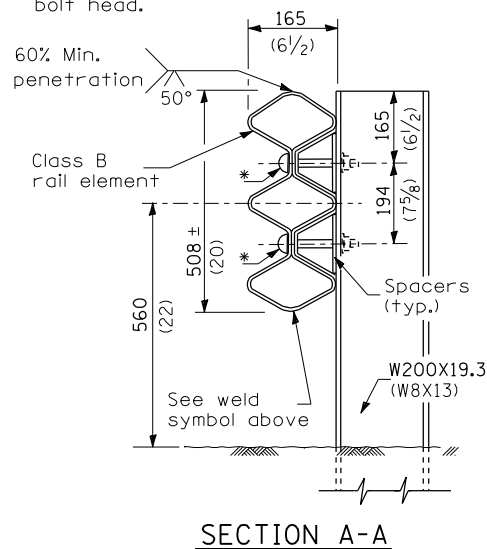
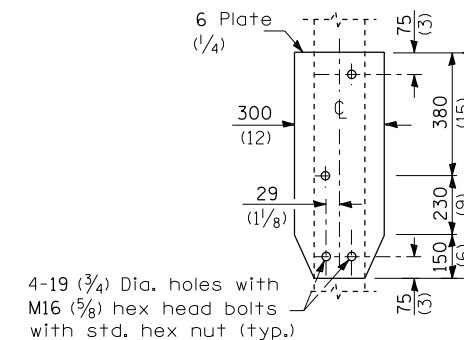
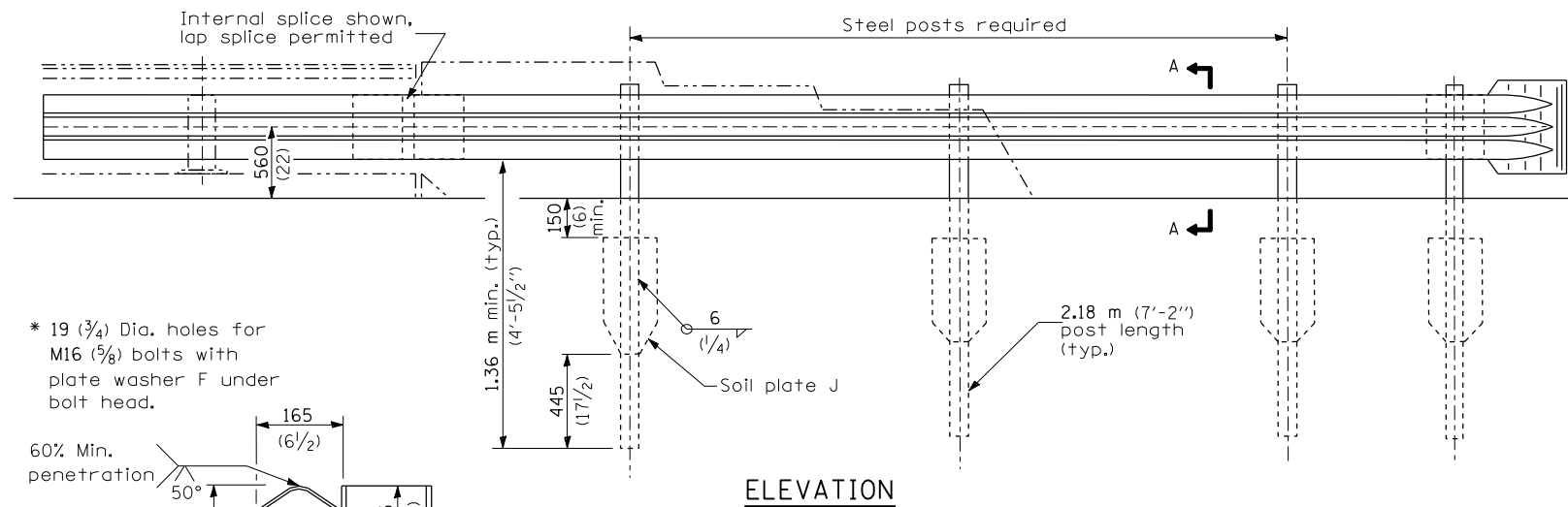
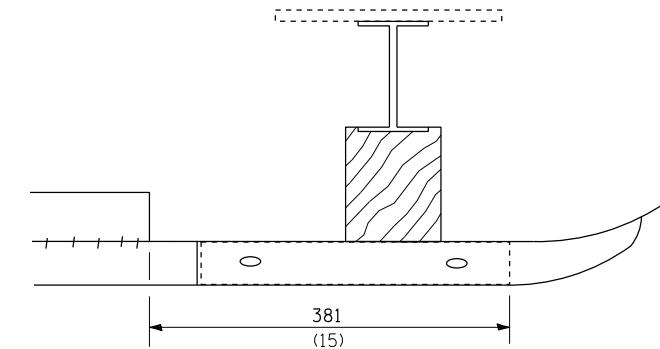
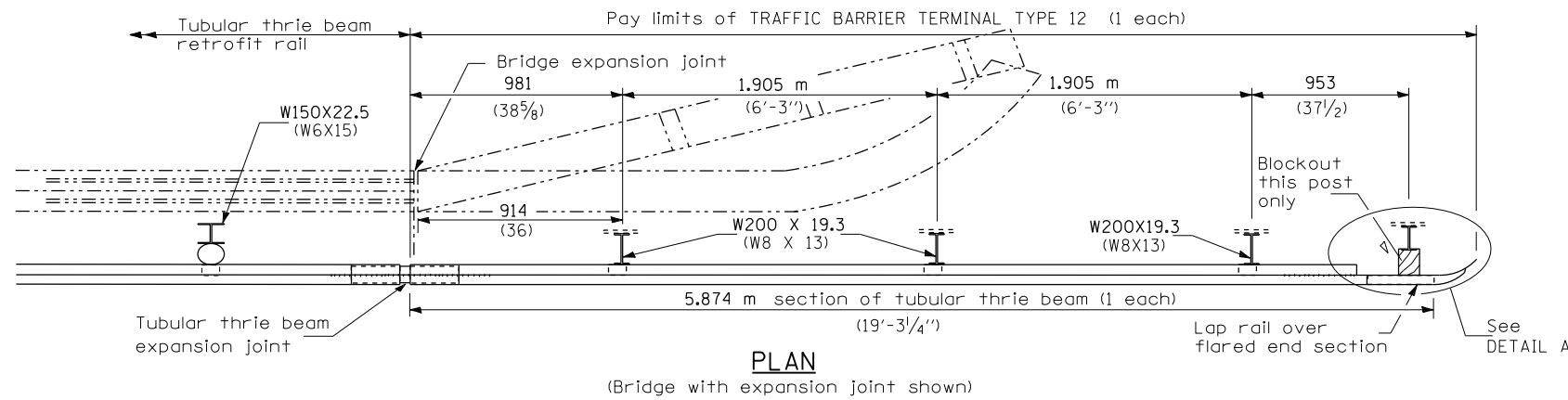
SOIL PLATE J & ALTERNATE CONNECTION DETAILS



GENERAL NOTES

See Standards 509001 and 630001 for details of guardrail elements not shown.
The type 9 terminal shall be installed after the posts for the bridge retrofit rail have been located as shown on Standard 509001.
All dimensions are in millimeters (inches) unless otherwise shown.

FILE NAME =	USER NAME = santiaogct	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PRE-MGS EFFECTIVE 4-1-06 TRAFFIC BARRIER TERMINAL TYPE 9 STANDARD 631041-01	F.A. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\IL\084EBIDINTEG.illinois.gov\PWIDOT\Documents\DOT Offices\District 3\Projects\0366EDRAWING\B3xxxxx-sht-cover.dgn	PLotted	CHECKED -	REVISED -			VAR.	VAR.	43	42		
PLOT SCALE = 250000.0000' / in.	DATE -	REVISED -	SCALE: _____			SHEET NO. _____ OF _____ SHEETS	STA. _____ TO STA. _____	CONTRACT NO. 66E94			
PLOT DATE = 3/21/2016	DATE -	REVISED -	FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT								



SOIL PLATE J & ALTERNATE CONNECTION DETAILS

GENERAL NOTES

See Standard 509001 and 630001 for details of guardrail elements not shown.

The type 12 terminal shall be installed after the posts for the bridge retrofit rail have been located as shown on Standard 509001.

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

FILE NAME =	USER NAME = santiaogct	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PRE-MGS EFFECTIVE 4-1-06 TRAFFIC BARRIER TERMINAL TYPE 12 STANDARD 631056-01	F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG.illinois.gov\PIDOT\Documents\DOT Offices\District 3\Projects\0366EDRAWING\B3xxxx-sht-cover.dgn		CHECKED -	REVISED -			VAR.		VAR.	43	43
PLOT SCALE = 250000.0000 / in.		DATE -	REVISED -			CONTRACT NO. 66E94				
PLOT DATE = 3/21/2016						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				