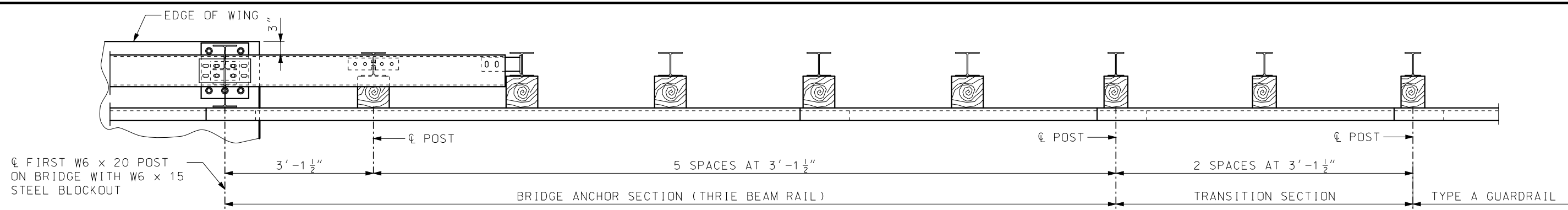
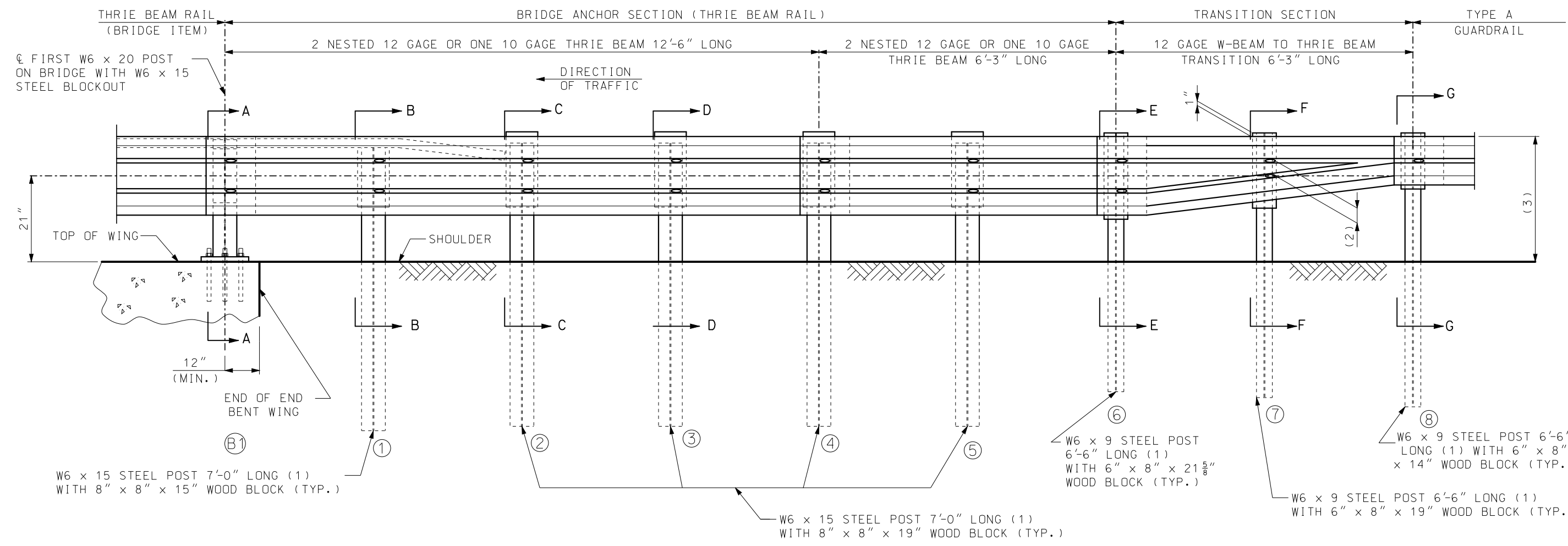


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PLAN

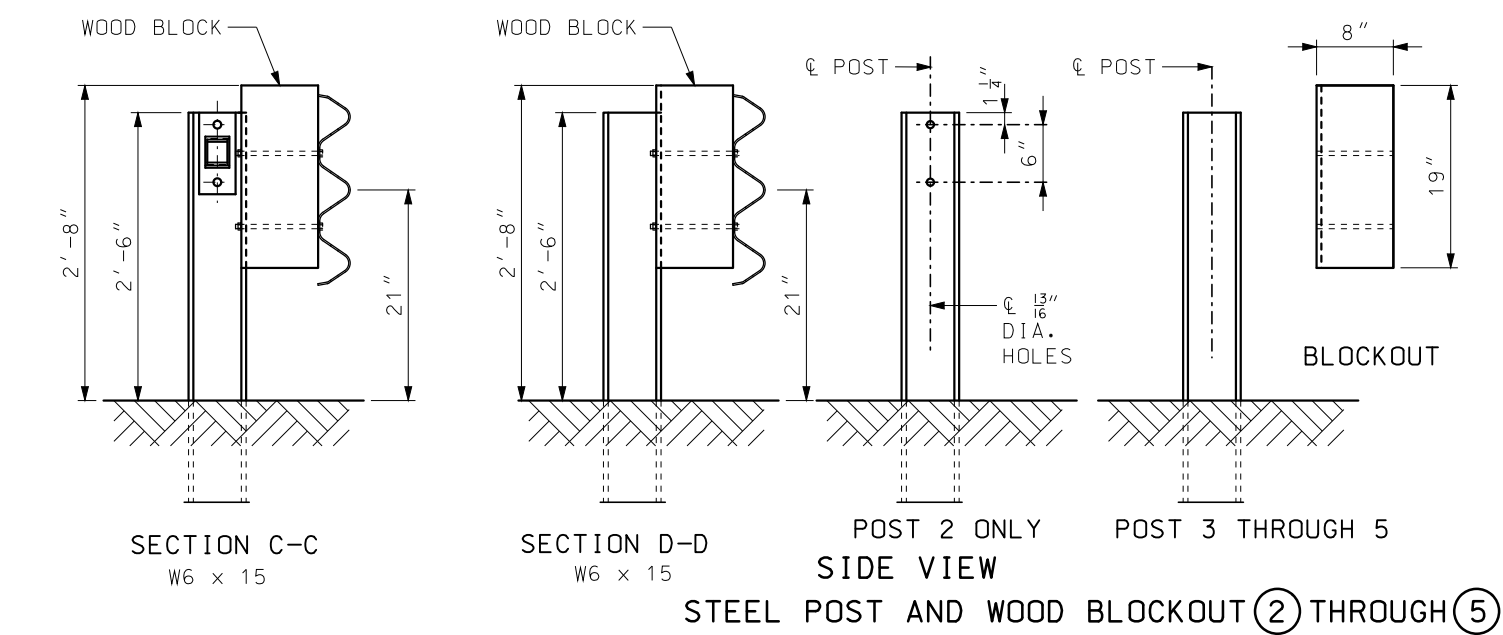
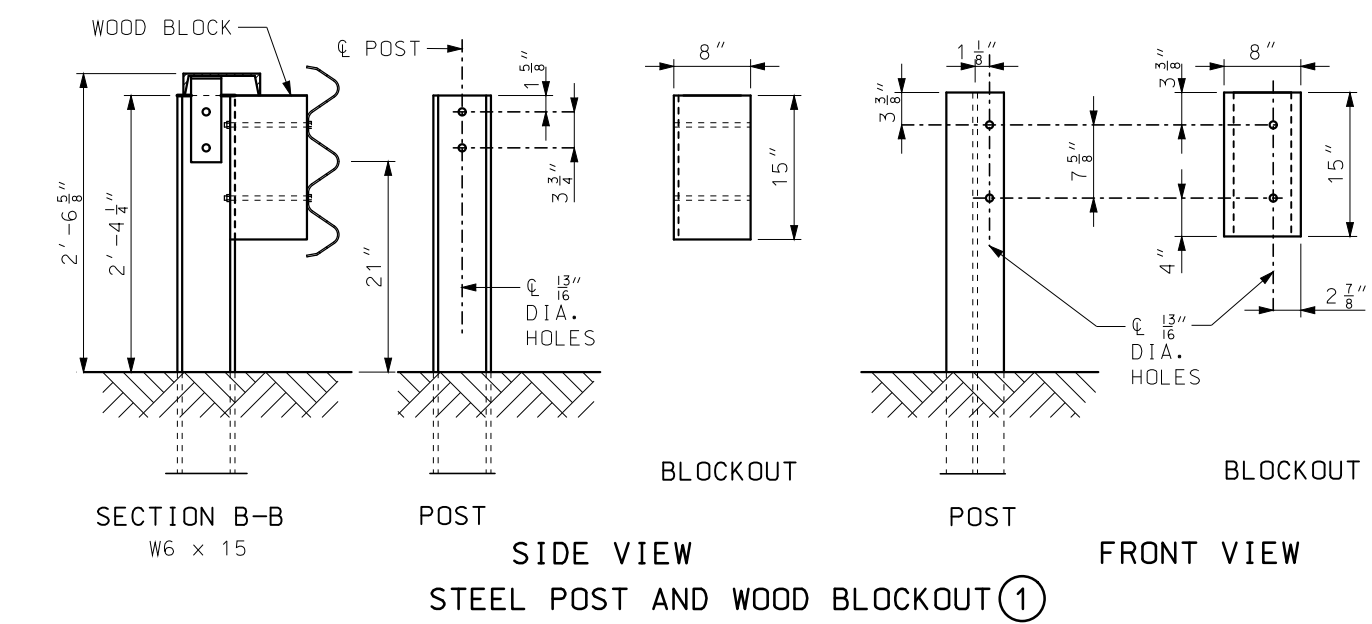
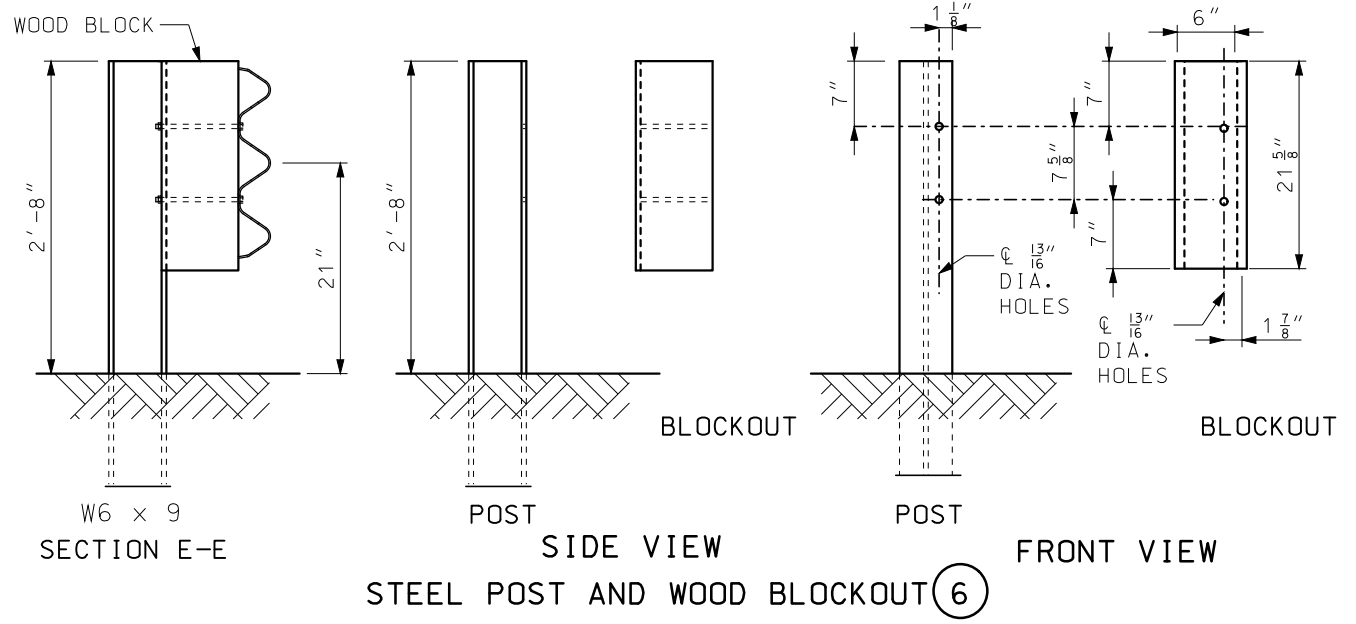
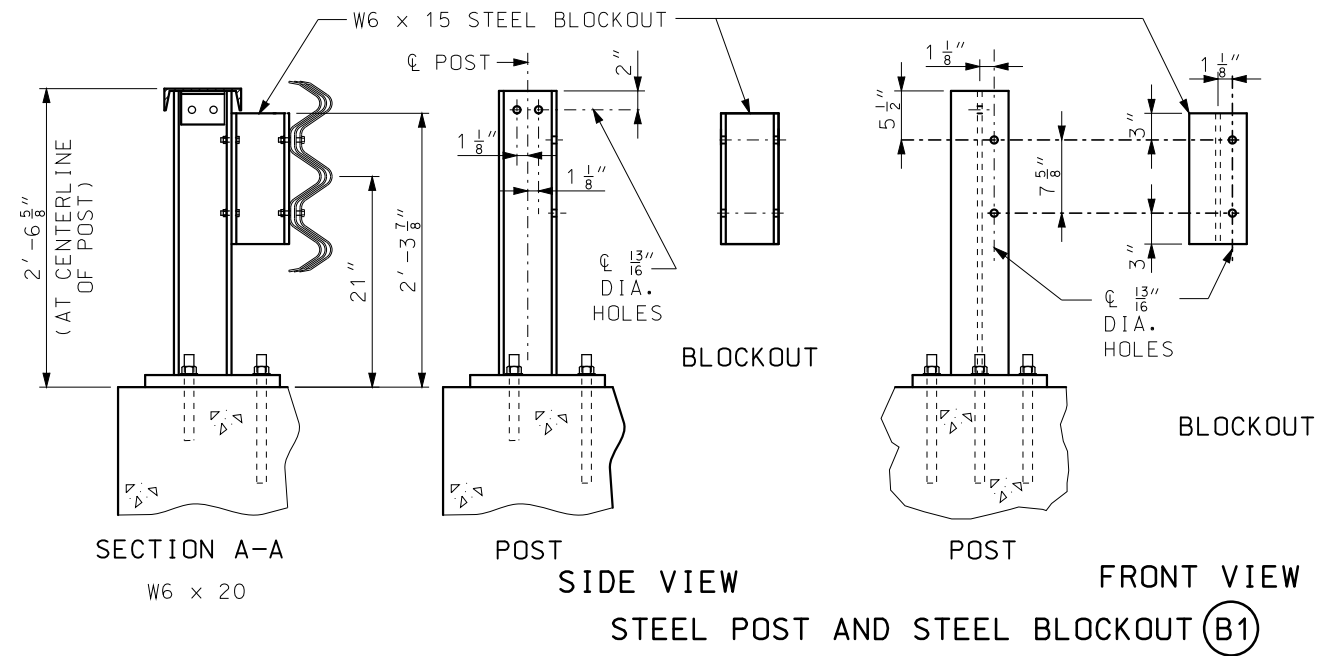


PART SECTION THROUGH SLAB AT END OF WING

NOTES:  
 FOR GENERAL NOTES, SEE SHEET 2 OF 5.  
 FOR POST DETAILS AND SECTION VIEWS, SEE SHEET 2 AND 3 OF 5.

- (1) AT CONTRACTOR'S OPTION, EQUIVALENT SECTIONS MAY BE FABRICATED FROM MATERIAL MEETING AND IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A769 GRADE 36 OR 40. THE SECTIONS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH THE REQUIREMENTS OF AASHTO 111.
- (2) VERIFY BY RAIL TRANSITION PRODUCER.
- (3) TRANSITION FROM 31" TO 29" HEIGHT OVER NEXT TWO UPSTREAM 12'-6" W-BEAM RAILS.

<b>MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION</b>	
105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)	
	<b>BRIDGE ANCHOR SECTION</b> (THRIE BEAM RAIL ON BRIDGE)
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.	
DATE EFFECTIVE: 7/01/016 DATE PREPARED: 5/13/2016	<b>606.23J</b>
	SHEET NO. <b>1 OF 5</b>



GENERAL NOTES:

DESIGN BASED UPON NCHRP REPORT 350 TEST LEVEL 3 (TL-3).

THE THRIE BEAM RAIL FOR THE BRIDGE ANCHOR SECTION SHALL BE 12 GAGE OR 10 GAGE AT THE CONTRACTOR'S OPTION, AND THE TRANSITION SECTION SHALL BE 12 GAGE.

FABRICATED STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 36.

FOR PROTECTIVE COATING AND MATERIAL REQUIREMENTS, SEE SEC 1040 OF THE STANDARD SPECIFICATIONS.

RAIL POSTS SHALL BE SET PERPENDICULAR TO THE ROADWAY PROFILE GRADE AND VERTICALLY IN CROSS SECTION.

WASHERS SHALL BE USED AT ALL POST BOLTS.


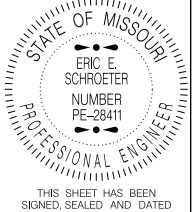
USE 5/8" BUTTON-HEAD, OVAL SHOULDER BOLTS WITH HEX NUTS (THICKNESS OF HEX NUTS = 3/8" MIN.) AT ALL SLOTS.

ALL LAP SPLICES SHALL BE MADE IN THE DIRECTION OF TRAFFIC.

THE COST OF FURNISHING, FABRICATING AND INSTALLING TRANSITION SECTION, COMPLETE-IN-PLACE, SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH.

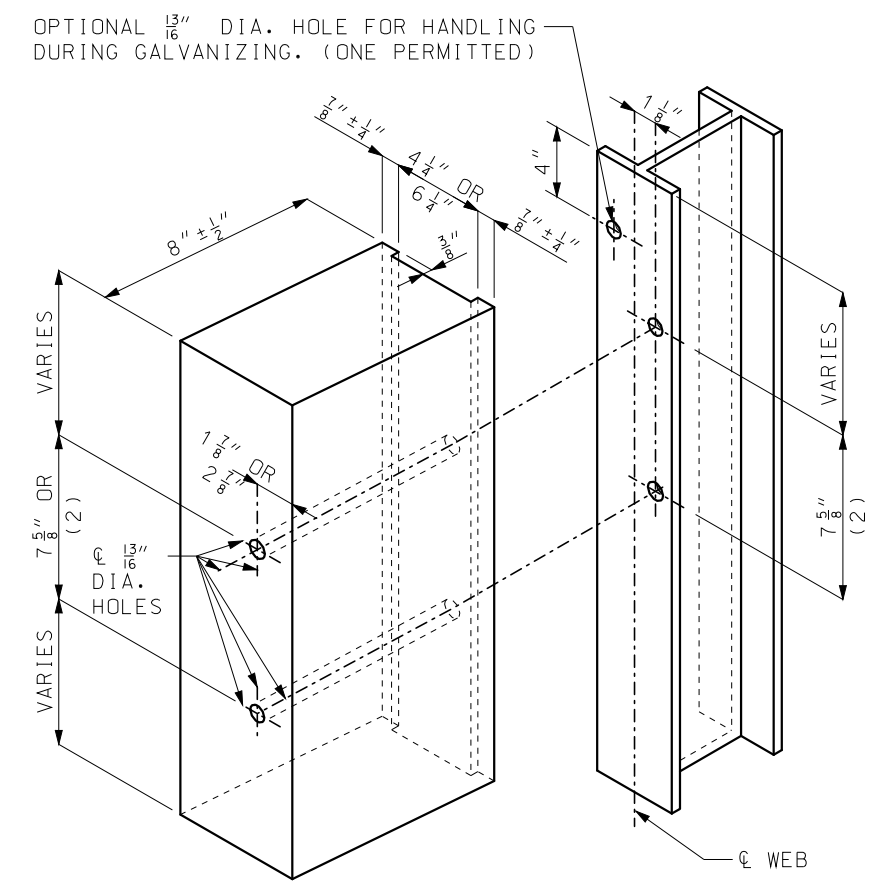
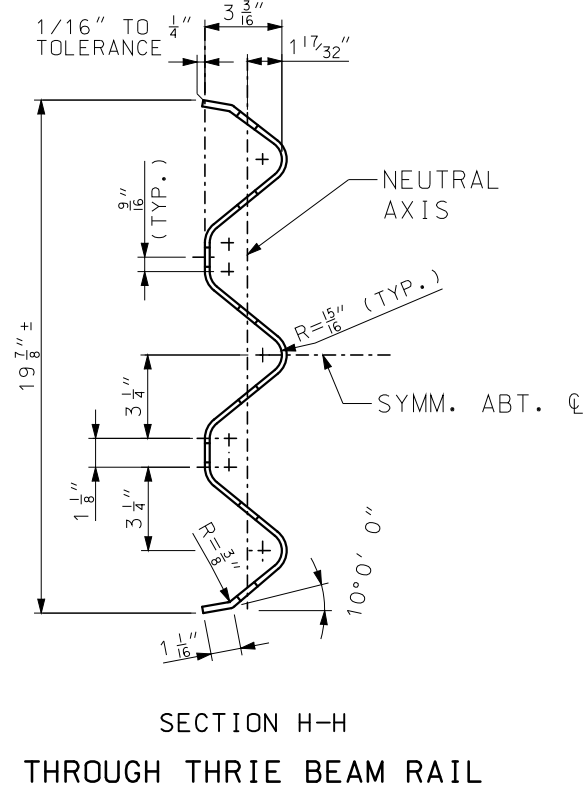
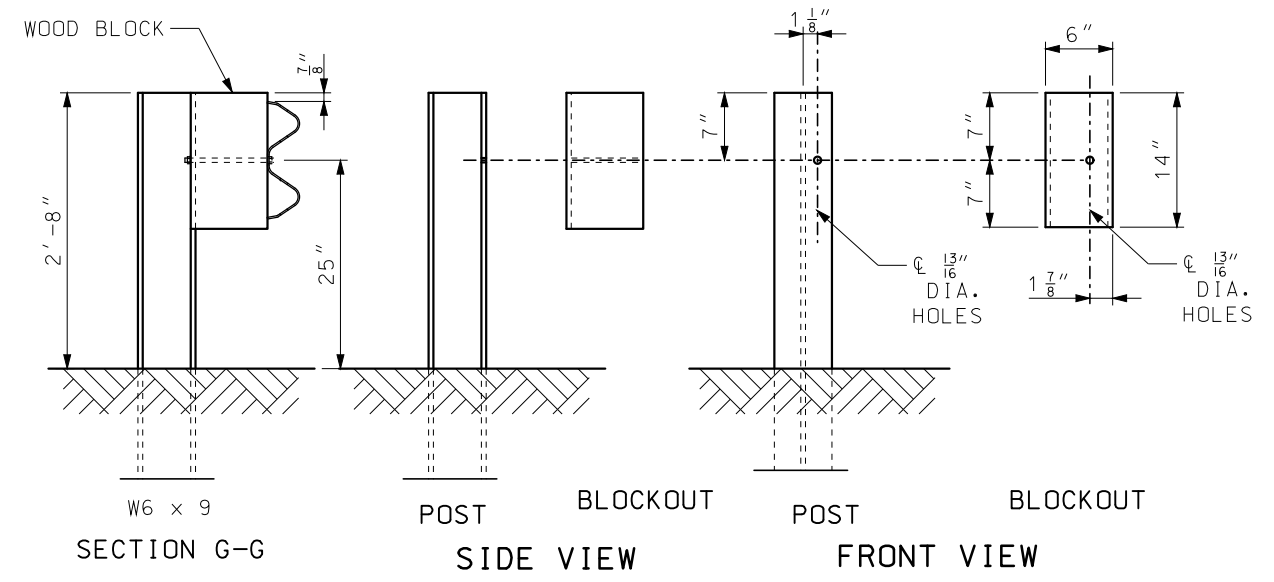
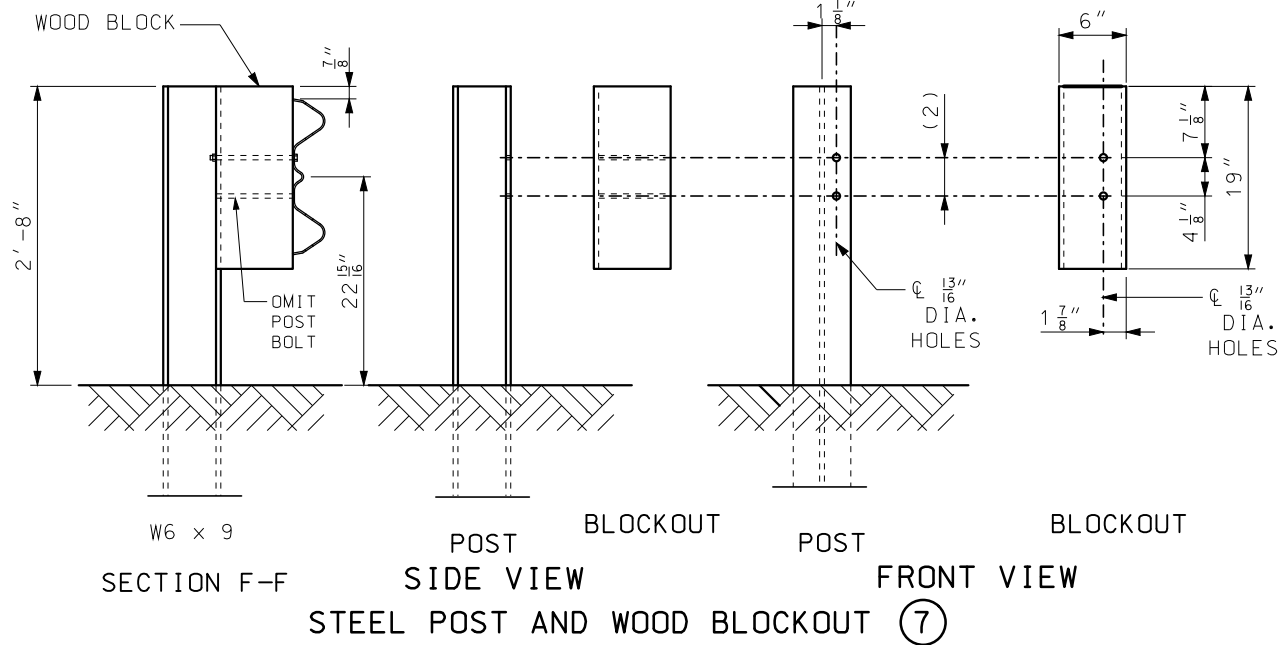
THE COST OF FURNISHING, FABRICATING AND INSTALLING BRIDGE ANCHOR SECTION (THRIE BEAM), COMPLETE-IN-PLACE, SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH.

FOR DETAILS NOT SHOWN, SEE BRIDGE THRIE BEAM RAIL SHEET.

 <b>MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION</b>	
105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)	
	<b>BRIDGE ANCHOR SECTION</b> (THRIE BEAM RAIL ON BRIDGE)
DATE EFFECTIVE: 07/01/2016 DATE PREPARED: 5/13/2016	SHEET NO. <b>606.23J</b> 2 OF 5

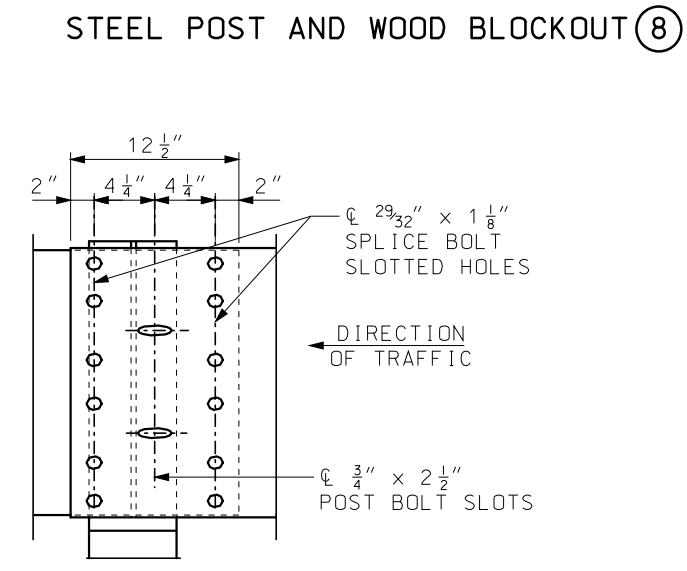
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

(2) VERIFY BY RAIL TRANSITION PRODUCER.

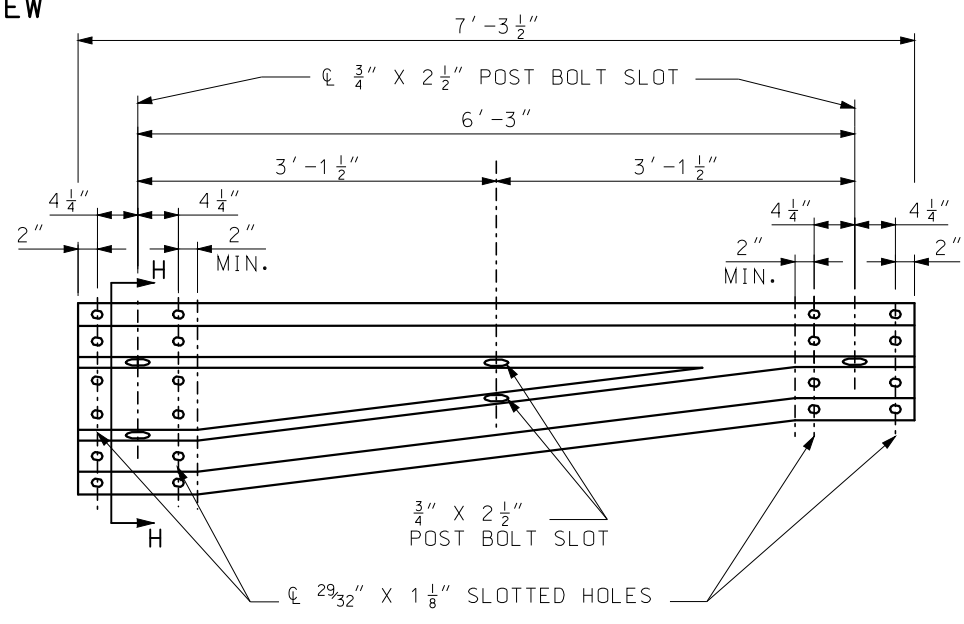


POST (7) - (2) VERIFY BY RAIL TRANSITION PRODUCER (SEE FRONT SHEET)  
 POST (8) - ONLY 1 HOLE REQUIRED  
 ALL HOLES 13/16" DIAMETER EXCEPT AS NOTED

**HOLE PUNCHING DETAIL FOR STEEL POST & WOOD BLOCKS (6" AND 8")**



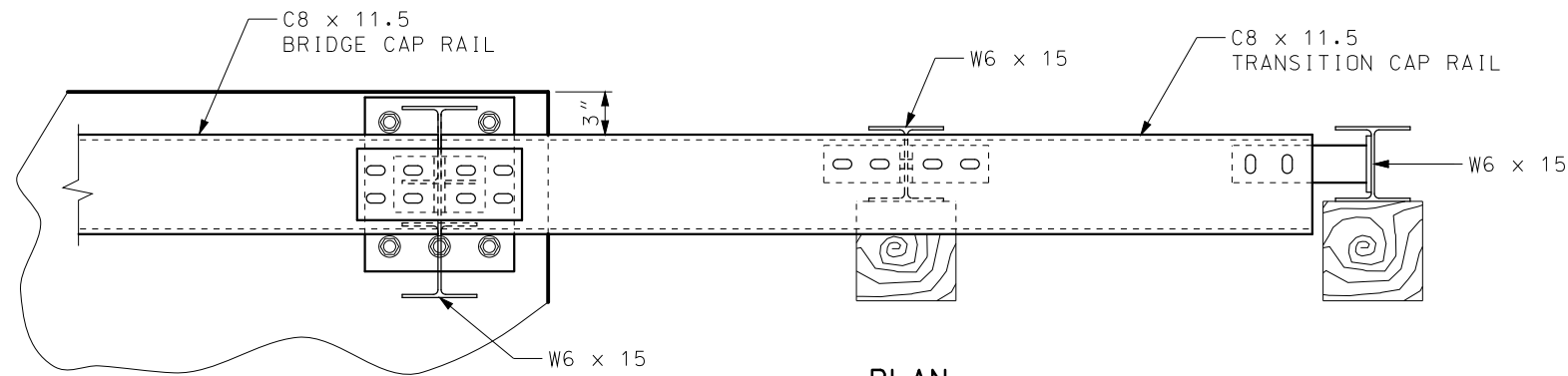
THRIE BEAM RAIL SPLICE AT POST



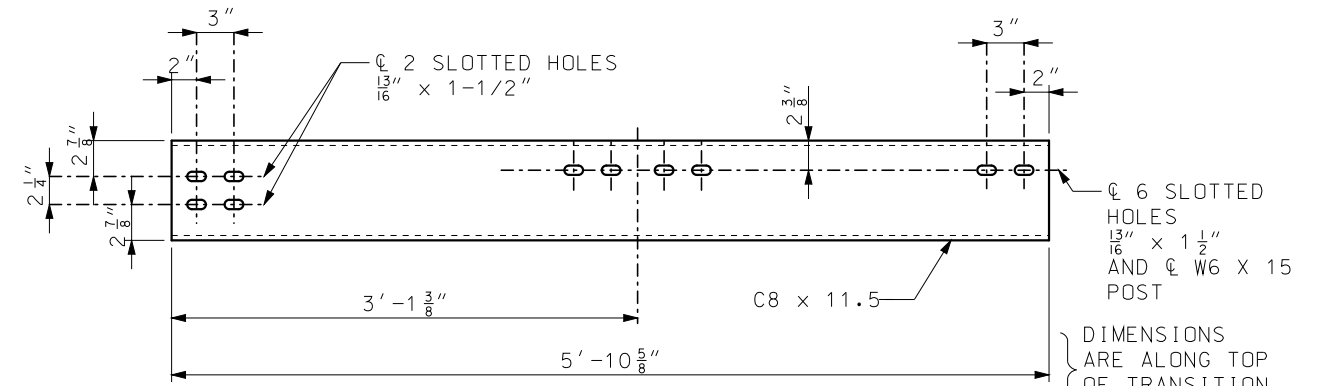
ASYMMETRICAL TRANSITION SECTION

<p><b>MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION</b></p> <p>105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)</p>	
<p>STATE OF MISSOURI ERIC E. SCHROETER NUMBER PE-28411 PROFESSIONAL ENGINEER</p> <p>THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.</p>	<p><b>BRIDGE ANCHOR SECTION (THRIE BEAM RAIL ON BRIDGE)</b></p>
<p>DATE EFFECTIVE: 07/01/2016 DATE PREPARED: 5/13/2016</p>	<p>606.23J</p>
<p>SHEET NO. 3 OF 5</p>	

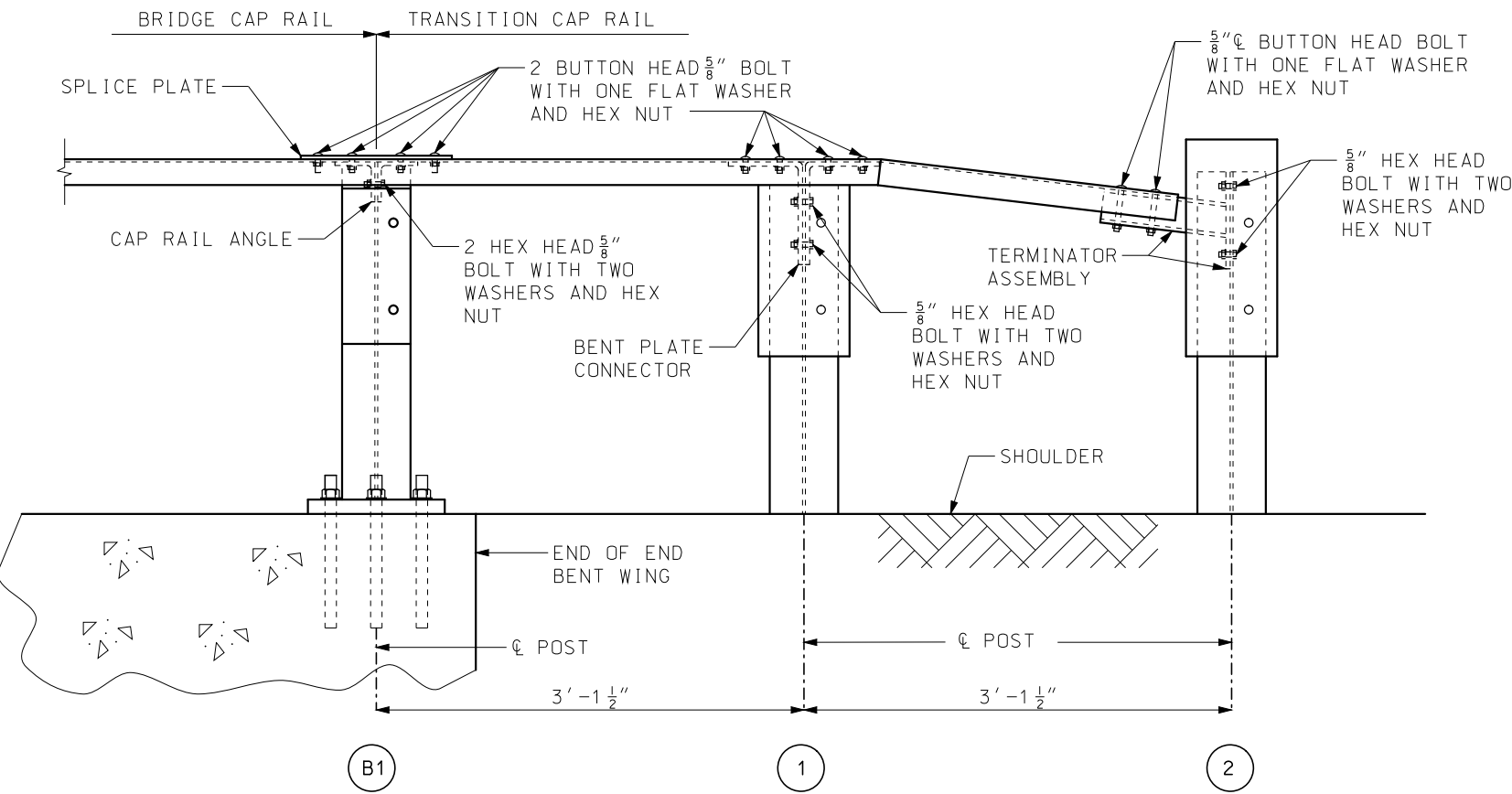
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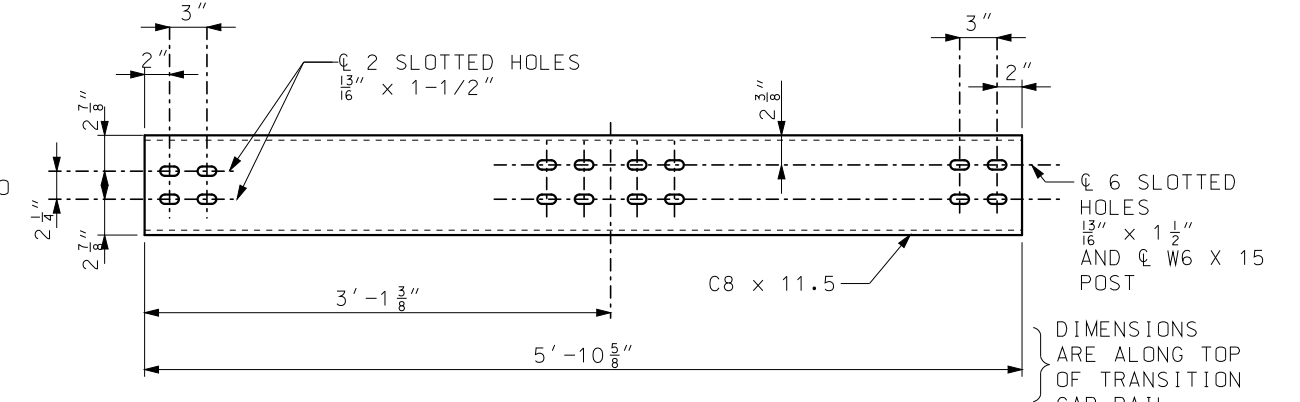
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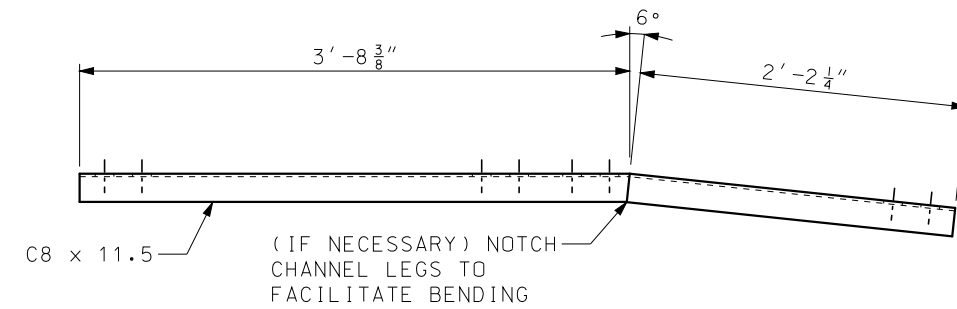
TOP VIEW (ALTERNATE 1)



ELEVATION  
(THRIE BEAM RAIL NOT SHOWN)

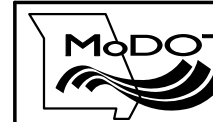


TOP VIEW (ALTERNATE 2)



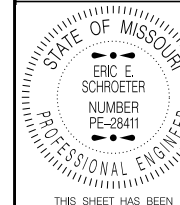
ELEVATION  
TRANSITION CAP RAIL

GENERAL NOTES:



MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)



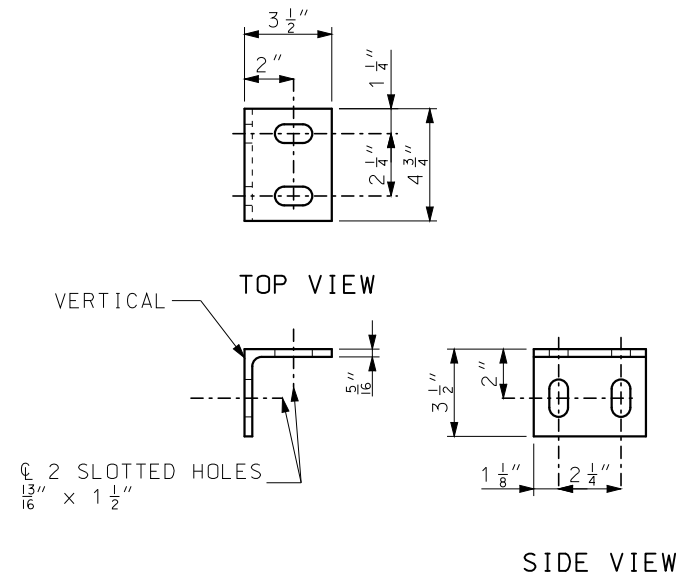
BRIDGE ANCHOR SECTION  
(THRIE BEAM RAIL ON BRIDGE)

DATE EFFECTIVE: 07/01/2016  
DATE PREPARED: 5/13/2016

606.23J

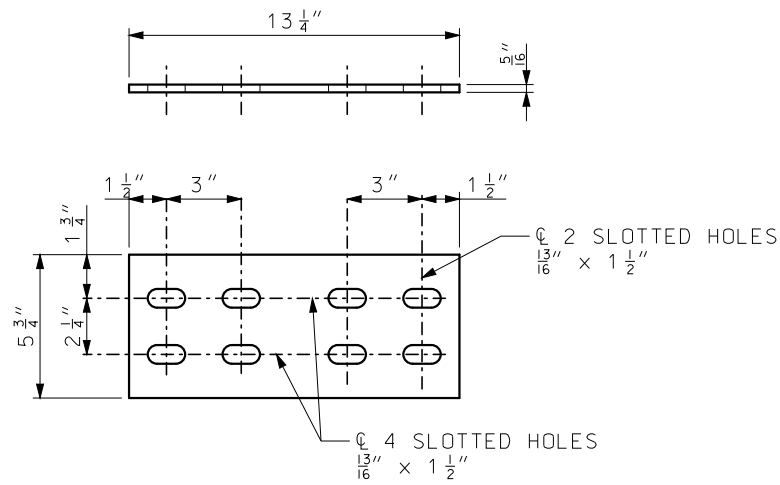
SHEET NO.  
4 OF 5

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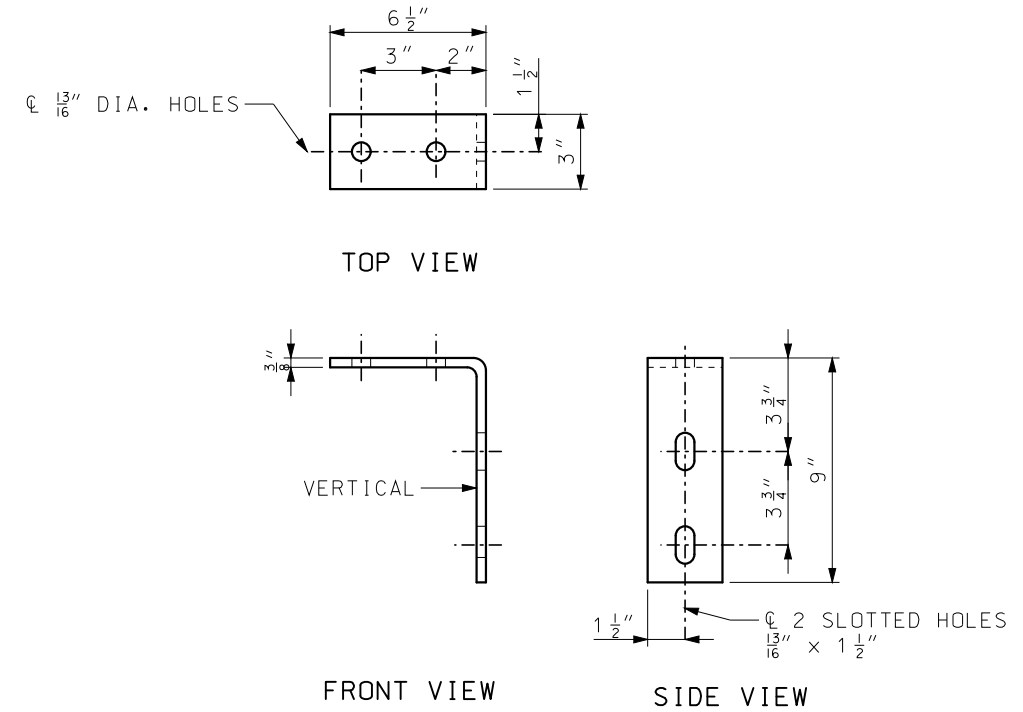


CAP RAIL ANGLE

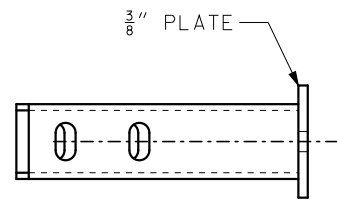
∠ 3 1/2" x 3 1/2" x 5/16"



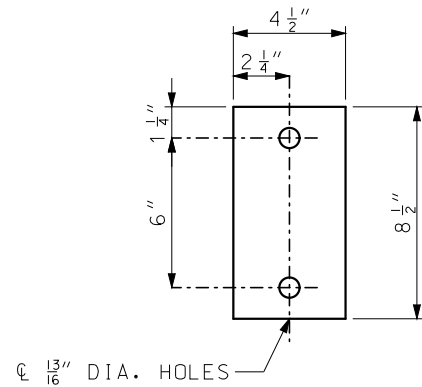
SPLICE PLATE



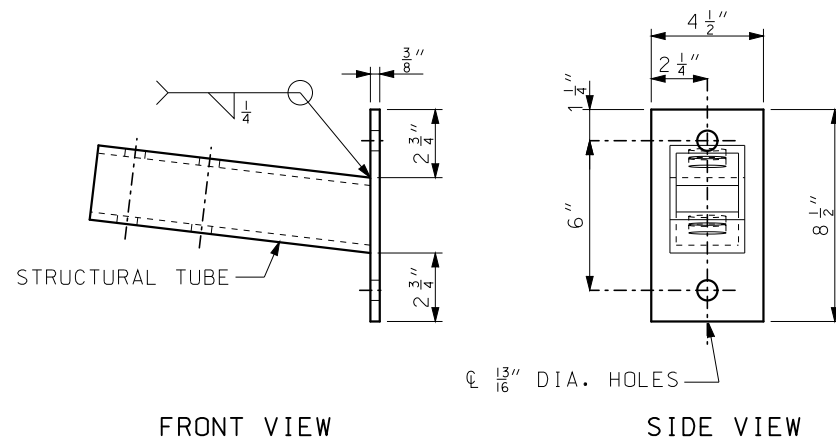
BENT PLATE CONNECTOR



TOP VIEW

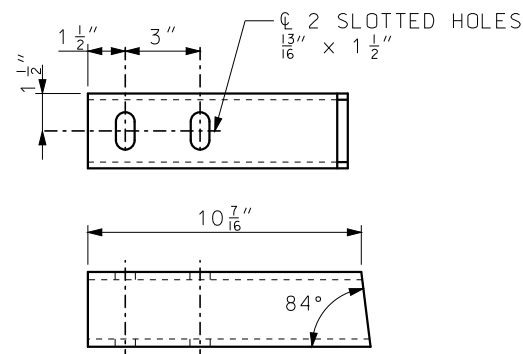


3/8" PLATE



FRONT VIEW

SIDE VIEW



STRUCTURAL TUBE

TS 3" x 3" x 5/16"

**MoDOT** MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION  
 105 WEST CAPITOL  
 JEFFERSON CITY, MO 65102  
 1-888-ASK-MODOT (1-888-275-6636)

STATE OF MISSOURI  
 ERIC E. SCHROETER  
 NUMBER PE-28411  
 PROFESSIONAL ENGINEER  
 THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

BRIDGE ANCHOR SECTION  
 (THREE BEAM RAIL ON BRIDGE)

DATE EFFECTIVE: 07/01/2016	606.23J	SHEET NO. 5 OF 5
DATE PREPARED: 5/13/2016		

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