

With Slot Without Slot

or Recess VIEW\_C-C

All field drilled holes shall be coated with an approved zinc rich paint before erection.

Posts shall not be located closer than 1'-3" to an existing bridge expansion joint or end of bridge.

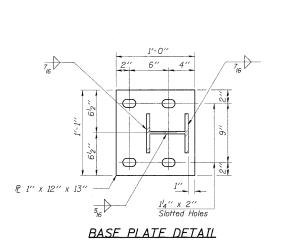
Steel Bridge Rall expansion joint shall be provided between any

two (2) posts which span a bridge expansion joint. Bolts located at expansion joint shall be provided with locknuts and shall be tightened only to a point that will allow railing movement.

Provide one  $^{l}_{8}$ " and two  $^{l}_{16}$ " steel shims for 25% of the posts.

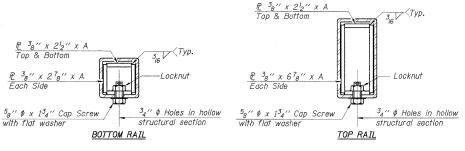
Shims shall be similar to base plates in size and holes.

All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.



10-1-00

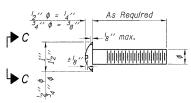
D\_ 31



SECTIONS AT RAIL SPLICE

PLAN-BOTT. SPLICE P

**TYPICAL** 



DETAIL OF 12" \$ 8 3," \$ ROUND HEAD BOLTS

## SPLICE DIMENSIONS

T	D	A	В	С	E
≤4′′	22"	1'-8''	2"	4"	212"
>4"≤6 <sup>1</sup> 2"	334"	2'-0"	21/2"	5/2"	3/2"
>6½"≤9"	5′′	2'-4"	312"	6/2"	9"
>9′′≤13′′	7''	2'-10''	42"	81/2"	11''
Rail Splice	4"	1'-8''	2"	4"	

T = Total movement at expansion joint as shown on the design plans.

## BILL OF MATERIAL

Item			Unit	Quantity	
Steel	Railing,	Type 2399	Foot	29	

l<sub>4</sub>'' at rail splice D at exp. jt. at 50° F. Hollow structural section -B Locknut  $2^{l_2}$ " Top Rall B  $2^{l_2}$ " Bott. Rall 1'8" x E Slotted 5<sub>8</sub> " ∮ x 1<sup>3</sup>4" Cap Screw Holes in hollow with flat washer & <sup>3</sup>4" φ XS pipe spacer,  $\frac{1}{2}$ " long. structural section

(6'-3" Maximum Post Spacing)

RAIL SPLICE CONNECTION AT EXPANSION JT.

STEEL RAILING, TYPE 2399 IL 154 OVER CREEK FAP 329; SECTION 18B-1 PERRY COUNTY STA 671+60.00 STRUCTURE NO 073-7053

FILE NAME = USEF	ER NAME = cornelllm	DESIGNED -	REVISED -			STEEL RAILING, TYPE 2399	F.A.P.	SECTION CO	OUNTY TO	AL SHEE
ci\pw_work\PWIDGT\CGRNELLLM\dms4984@\dB78@6	69_sht_misc.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS		SN 073-7053		35B-1/18B-1 JOHNS	ON/PERRY 2	6 23
PLOT	DT SCALE = 1.0000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	SCALE: SHEET NO OF SHEETS STA TO STA		CED BOAD DIS	CON	ITRACT NO.	78069