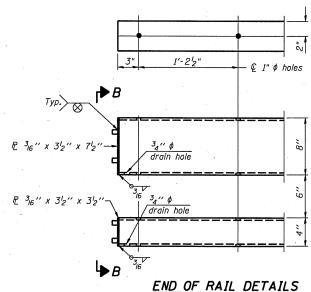


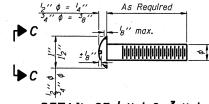
(6'-3" Maximum Post Spacing)

PLAN-BOTT. SPLICE PL **TYPICAL**

Locknut-1'8" x E Slotted 5₈ " \$\phi x 1³4" Cap Screw Holes in hollow with flat washer & 34" \$ structural section XS pipe spacer, '2" long.

RAIL SPLICE CONNECTION AT EXPANSION JT.





DETAIL OF 2" \$ & 34" \$ ROUND HEAD BOLTS

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 Rail 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 $\frac{1}{8}$ " and two $\frac{1}{16}$ " 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.

SPLICE DIMENSIONS

-1	· T	T D		A. B		E		
	≤4′′	21/2"	1'-8"	2"	4"	2'2"		
	>4"≤6 ¹ 2"	334"	2'-0"	2/2"	5'2"	3'2"		
	>6½"≤9"	- 5"	2'-4"	32"	6'2"	9"		
1	>9′′≤13′′	7''	2'-10"	412"	82"	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	

STEEL RAILING, TYPE 2399 STRUCTURE NO.

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P 1" x 12" x 13" -

R-31

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BASE PLATE DETAIL

7-1-10

STATE	OF	ILLINOIS	
DEPARTMENT	OF :	TRANSPORTATION	

	OTTEL DRIDGE BALL DETAIL			F.A. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.			
STEEL BRIDGE RAIL DETAIL						VAR	2010-057 GRR	VARIOUS	21	18	
									CONTRACT	NO.	50L35
	SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. RO	AD DIST. NO. ILLINOIS FED. A	D PROJECT		