



Notes:
 All field drilled holes shall be coated with an approved zinc rich paint before erection.
 Posts shall not be located closer than 1'-5" 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 3/8" and two 1/8" 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

T	D	A	B	C	F
≤ 4'	2 1/2"	1'-8"	2"	4"	2 1/2"
> 4' ≤ 6 1/2'	3 3/4"	2'-0"	2 1/2"	5 1/2"	3 3/4"
> 6 1/2' ≤ 9'	5"	2'-4"	3 1/2"	8 1/2"	5"
> 9' ≤ 15'	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	2"	1'-8"	2"	4"	2 1/2"

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

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type 2399	Foot	27.0

R-31 7-1-10 (6'-3" Maximum Post Spacing)

STEEL RAILING, TYPE 2399
 STRUCTURE NO. 016-6046

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REVISIONS: 10-22-12 JR REVISED PLANS PER COMMENTS FROM IDOT, HANOVER PARK, & NORTH COOK SWCD. 11-08-12 JR REVISED PLANS PER COMMENTS FROM IDOT DATED 11-02-12.				PLOTTED BY: PLOT CHECKED BY: PLT/CHK DRAWN BY: DRAWN CHECKED BY: DRAWN/CHK APPROVED BY: APPROVED				pmo Pavia-Marting & Co. 910 W. Lake St. Roselle, IL 60172 630-529-5000 Fax: 630-894-4910 Design Firm Professional Registration #08408236		TITLE: LONGMEADOW LANE BOX CULVERT REPLACEMENT HANOVER PARK, IL S.N. 016-6046 TYPE 2399 RAILING DETAILS		SCALE: NONE DATE: 10/17/12 JOB NO: 02841.DS SHEET 13 OF 20	
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