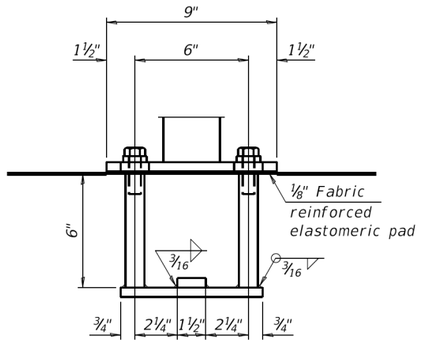
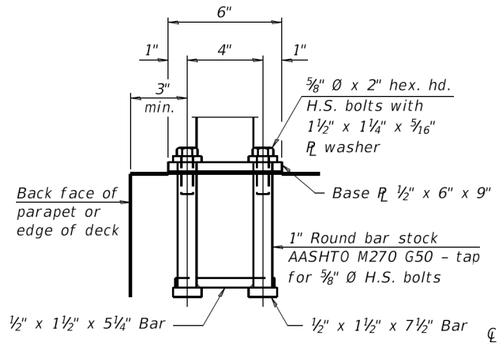
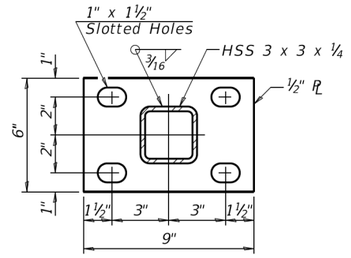




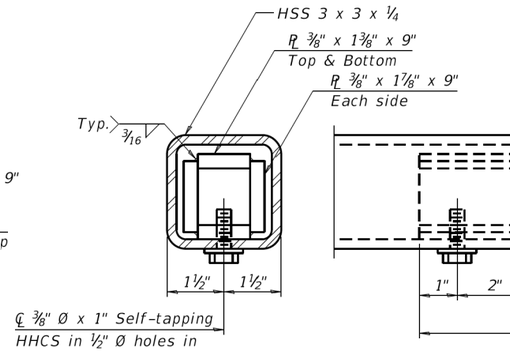
ANCHORAGE ASSEMBLY

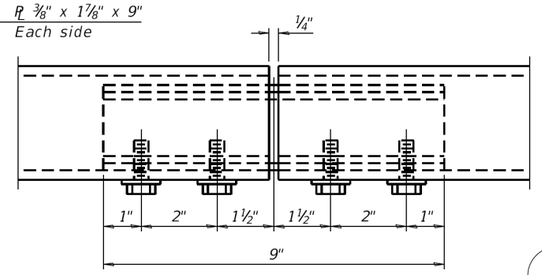
The Bicycle Railing fasteners for end posts near expansion joints may need to be installed prior to installing the bent plates.

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting ⅝" Ø fully threaded anchor rods with the same plate washers as specified above and heavy hex lock nuts according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

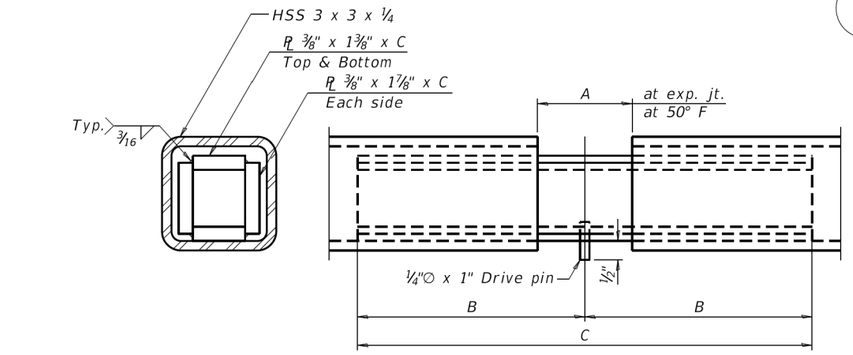


SECTION B-B





MATERIAL SPLICE



EXPANSION SPLICE

Notes:

Place reinforcement bars to miss anchor rod locations.

CVN testing is not required for the HSS tubing used in the Bicycle Railing.

All HSS tubing used for the Parapet Railing shall be CVN tested according to Article 1006.34(b) of the Standard Specifications.

All HSS tubing used for the Parapet Railing shall be ASTM A500 grade C.

All base plates used for the Paraper Railing shall be AASHTO M270 grade 50.

All heavy hex nuts shall be according to ASTM A 563 grade DH.

All fully threaded anchor rods shall be ASTM F1554 grade 105.

The post base plate shall be fastened to the curb snug tight and given an additional ⅛" turn.

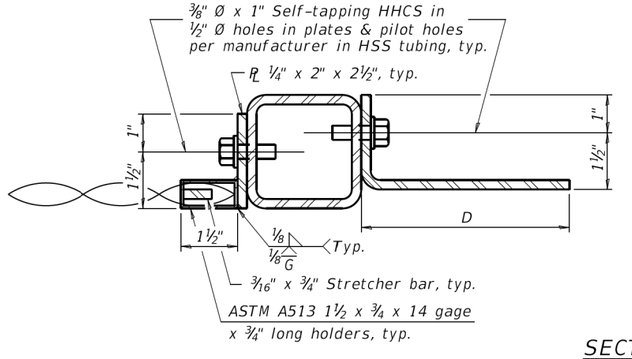
Rail splice inserts may be built out of bent plates of the same thicknesses and outside geometry limits as the 4 plate rail splice inserts shown.

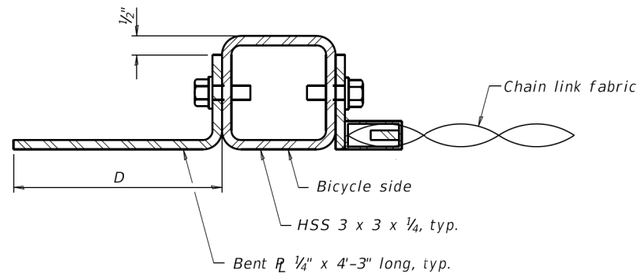
~~*When the contract specifies a galvanized railing, all steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications. When the contract specifies a painted railing, all posts, rail, splices, anchor devices and plates of the railing shall be painted according to the paint system for railings as specified in the General Notes.*~~

~~*See sheet _ of _ for dimensions of concrete openings at expansion joints.*~~

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

1





SECTION A-A

TABLE OF DIMENSIONS

Location	T	A	B	C	D	E
Over Strip Seal Jt.	≤4"	2½"	1'-2"	2'-4"	7¼"	7"
Over Finger or Modular Jt.	≤9½"	5½"	1'-7¾"	3'-3½"		
Over Finger or Modular Jt.	≤15"	8¼"	2'-1¼"	4'-2½"		

T= ; total movement based on total temperature range from -20°F to 120°F along centerline of roadway at expansion joint.

BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing	Foot	28

R-29

9-1-2022

REVISION	DATE	BY	REMARKS
1	09/02/25		ADDENDUM A

DESIGNED ATK
DRAWN DAL
REVIEWED EEL
APPROVED MRL

WINNEBAGO COUNTY
PRAIRIE HILL ROAD OVER ROCK RIVER
STATION 20+00

WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

BICYCLE RAILING
STRUCTURE NO. 101-0220
STRUCTURAL SHEET NO. 38 OF 48 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9876	18-00655-00-BR	WINNEBAGO	89	58
	WHA* 1570D23	CONTRACT NO. 85764		
	ILLINOIS FED. AID PROJECT			

FILE = S:\PROJECTS\2023\1570023_WNC_Prairie\DESIGN\CAD_SHEETS\1570023_Railing Details.dgn

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