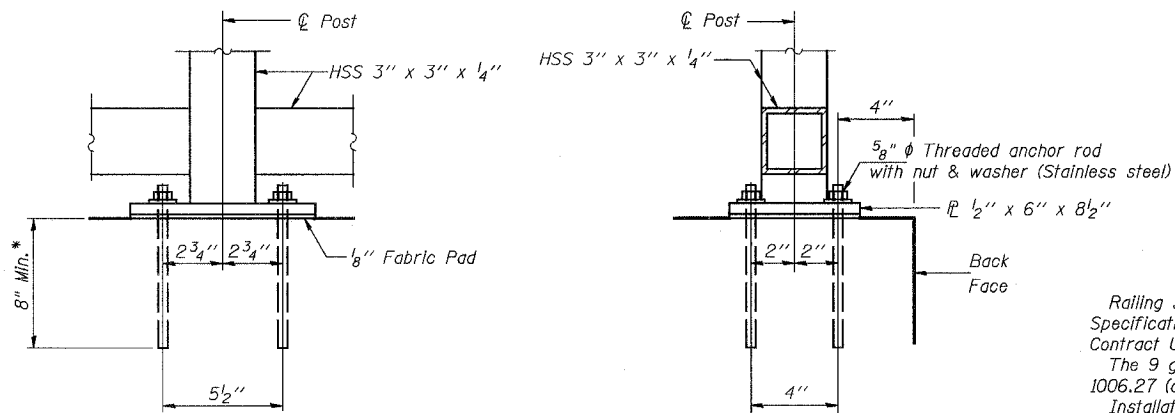
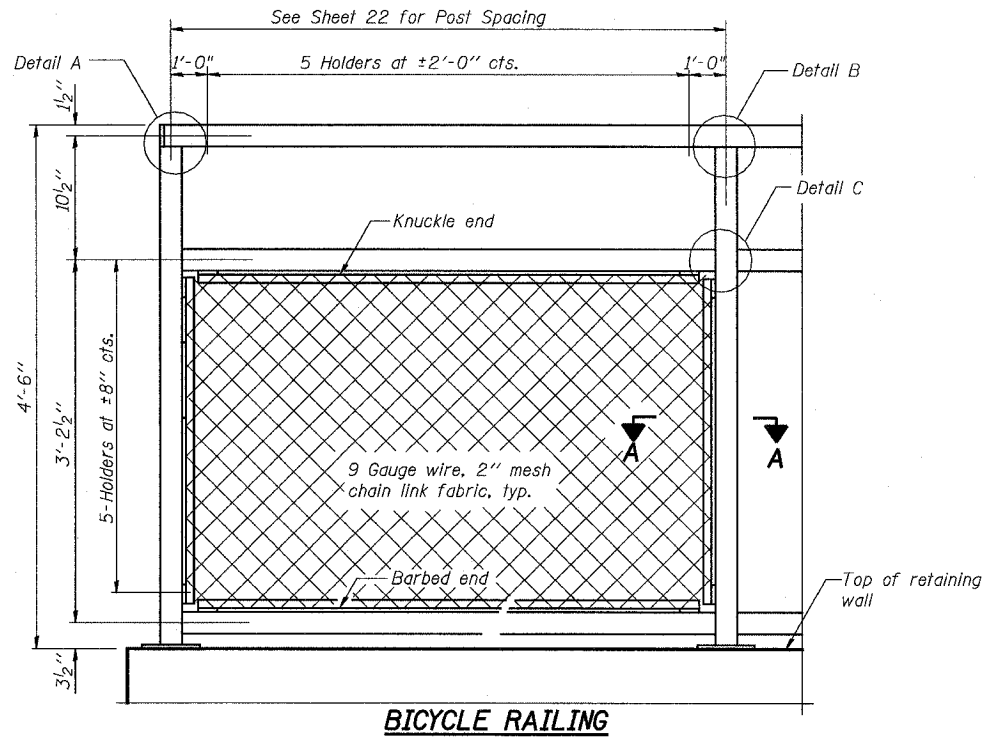


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 G:\17049_069\structures\retaining walls\main contract\walls under bridges along us 6\23 railing.dwg

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	525
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT-	CONTRACT NO. 60E10	

SHEET NO. 23
24 SHEETS



Drill and epoxy 5/8" Ø galvanized threaded anchor rods. Embedment shall be according to the manufacturer's specifications and shall be at least 8".

NOTES

Railing shall be according to Section 509 of the Standard Specifications, except as noted, and will be paid for at the Contract Unit Price per foot for Bicycle Railing.

The 9 gauge fabric ties shall be according to Article 1006.27 (d) of the Standard Specifications.

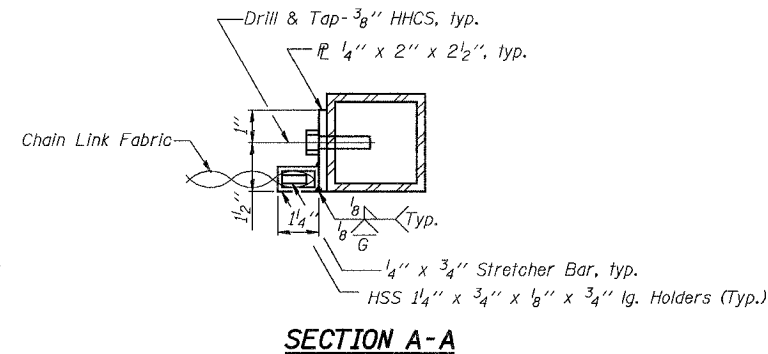
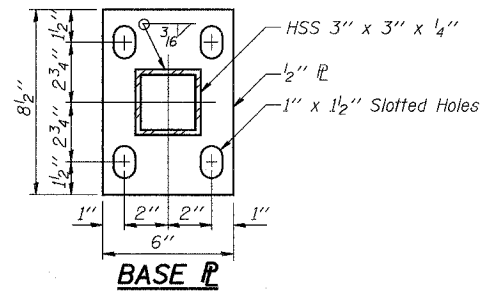
Installation of the chain link fabric shall be according to Section 664 of the Standard Specifications.

Hollow structural sections shall conform to the requirements of ASTM designation A 500, Grade B, structural steel tubing.

All other steel shapes and plates shall conform to the requirements of AASHTO M 270 Grade 36.

The chain link fabric shall be placed along Bicycle Side as shown on Section A-A.

Stretcher bars shall be used at all four sides of each panel. The Contractor shall use the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures. The capsule or the adhesive cartridge shall be sealed with pre-measured amounts of the adhesive chemical.



All posts, railing, splices, and anchor devices shall be galvanized after shop fabrication according to AASHTO M 111 and ASTM A 385. All bolts, nuts, washers, and anchor rods shall be galvanized according to AASHTO M 232 except stainless steel bolts as noted.

Vent holes for galvanizing shall be placed in the posts and rails at locations that will not allow the accumulation of moisture in the members.

The chain link fabric shall conform to the requirements of Article 1006.27(a)(1)a, b or c of the Standard Specifications.

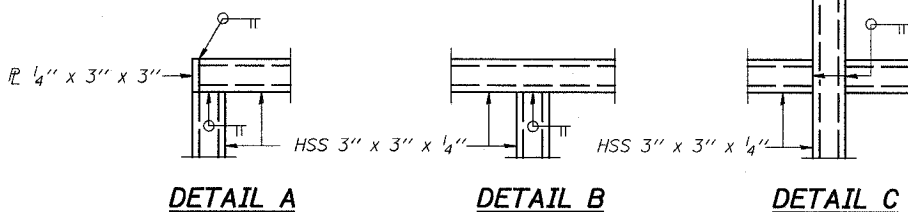
Provide expansion joint in rails per detail shown on this drawing at locations of expansion joints in the retaining walls

All railing posts shall be set vertical. All rails shall be parallel to sidewalk profile. Bend rails and miter their connections to posts as necessary.

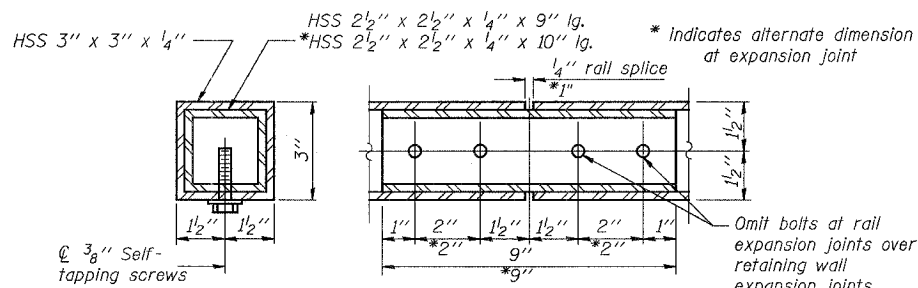
BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing	Foot	1280

The pay item "Bicycle Railing" includes finishing and installing bicycle railing and anchorages on all sidewalk retaining walls built in this contract and on existing sidewalk retaining walls built in the advance contract.



(10'-0" Maximum Post Spacing)



DESIGNED	MAD
CHECKED	JPB
DRAWN	MAD
CHECKED	DEY

URS
 100 South Wacker Drive,
 Suite 500
 Chicago, IL 60606
 (312) 939-1000

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 US RTE 6 FROM I-294 TO IL RTE 1
**BICYCLE RAILING DETAILS
 ON RETAINING WALLS**
 U.S. 6 MAINLINE RETAINING WALLS
 ALONG 159TH STREET

SCALE: DATE: 2/21/2008