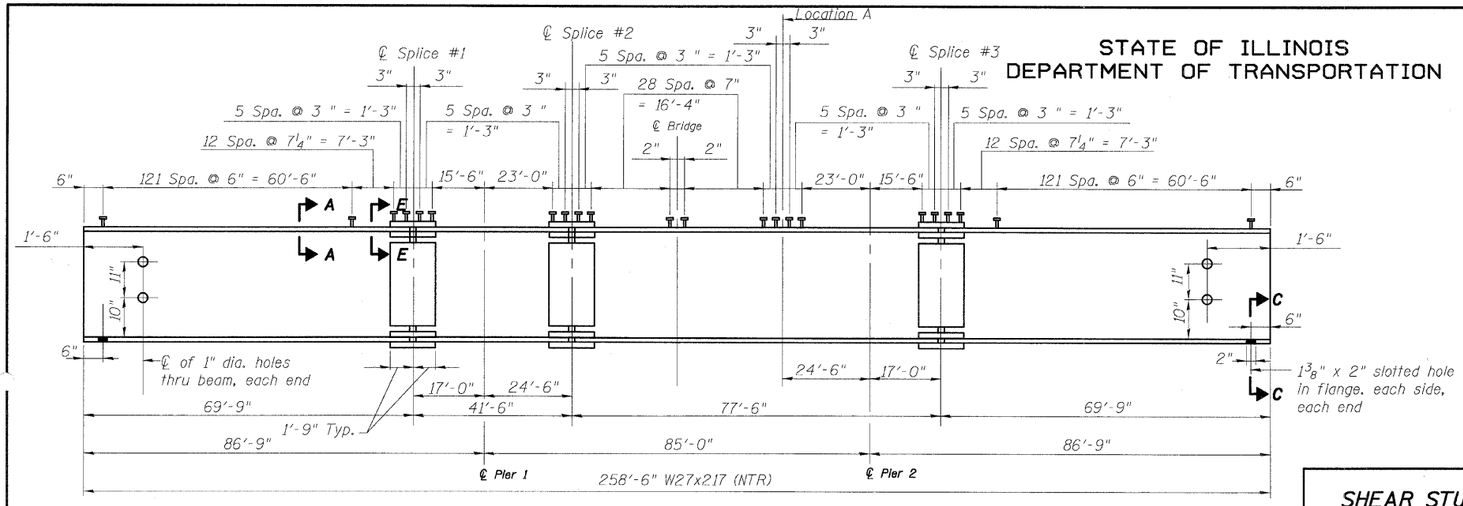
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 324	23B (1&2)F	MCHENRY	17	15
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO.

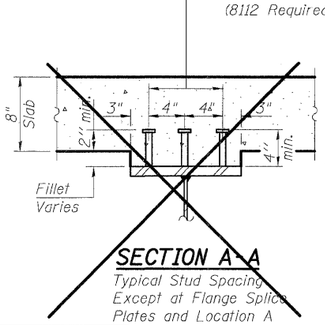
SHEETS

Contract # 60E54

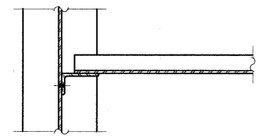


BEAM ELEVATION
Looking West

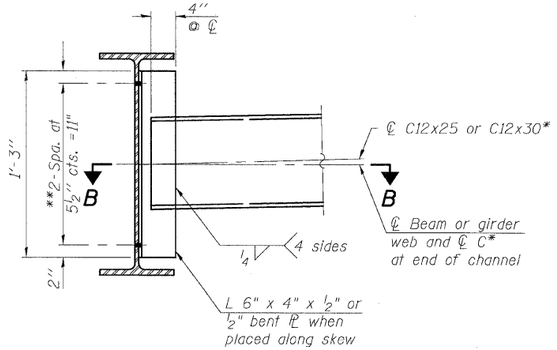
SHEAR STUDS ARE NOT PART OF THIS CONTRACT



SECTION A-A
Typical Stud Spacing Except at Flange Splice Plates and Location A



SECTION B-B

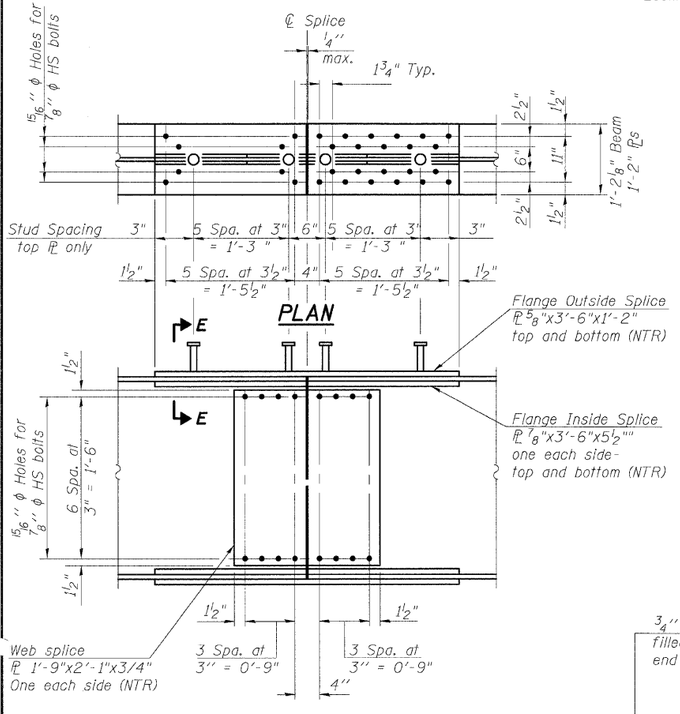


INTERIOR DIAPHRAGM D

Note:
Two hardened washers required for each set of oversized holes.

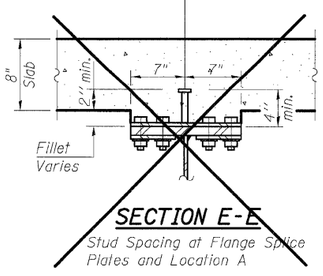
* Alternate channels are permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section.

** ¾" ϕ HS bolts, ¹⁵⁄₁₆" ϕ holes

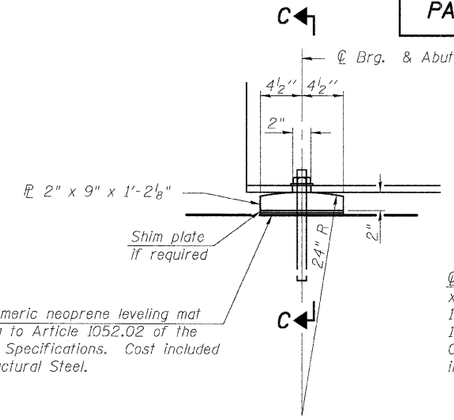


ELEVATION

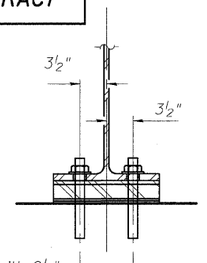
SPLICE DETAIL
(24-Required)



SECTION E-E
Stud Spacing at Flange Splice Plates and Location A

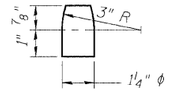


ELEVATION AT ABUTMENT

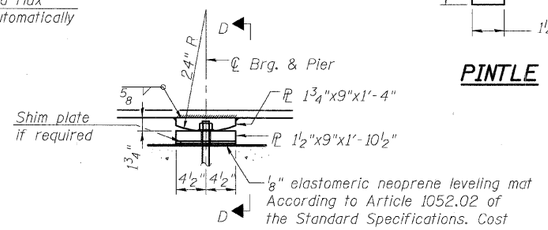


SECTION C-C

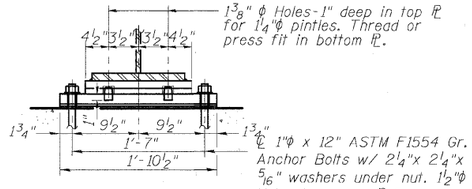
FIXED BEARING AT ABUTMENTS



PINTLE



ELEVATION AT PIER



SECTION D-D

FIXED BEARING AT PIERS

NOTES:

Furnishing fixed steel bearings including shim plates and neoprene mat shall be included with the item "Furnishing Structural Steel"

Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.

All beams, splice plates and fixed bearing plates are M270 Grade 50.

All diaphragms and angles connecting diaphragms to beams are M270 Grade 36.

HS splice bolts shall be ⅞" ϕ AASHTO M164/ ASTM A325

Two ⅛" adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

DESIGNED	WLA
CHECKED	CJB
DRAWN	DRP
CHECKED	PJM

V3 Companies of Illinois Ltd.
7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
630.724.9202 fax
www.v3co.com

FRAMING DETAILS

ILL. ROUTE 23 OVER
KISHWAUKEE RIVER
F.A.P. RT. 324 - SEC. 23B (1&2)F
MCHENRY COUNTY
STATION 69+02.50
STRUCTURE NO. 056-0001