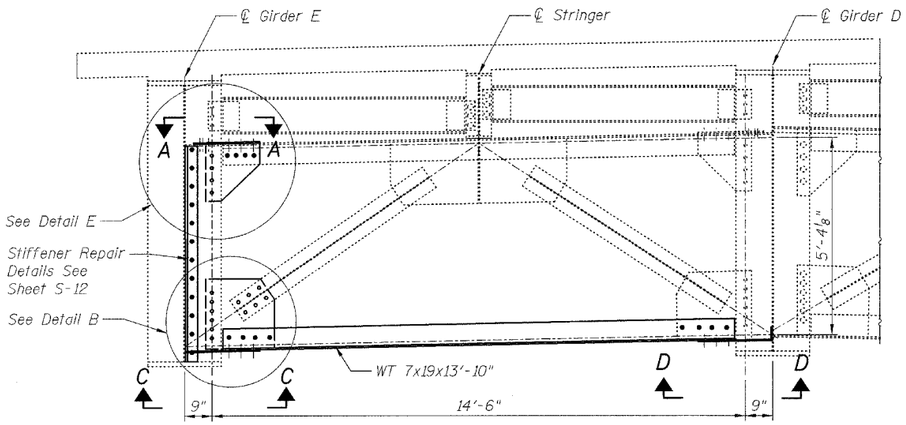
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2697	2008-018 BR	COOK	22	12
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

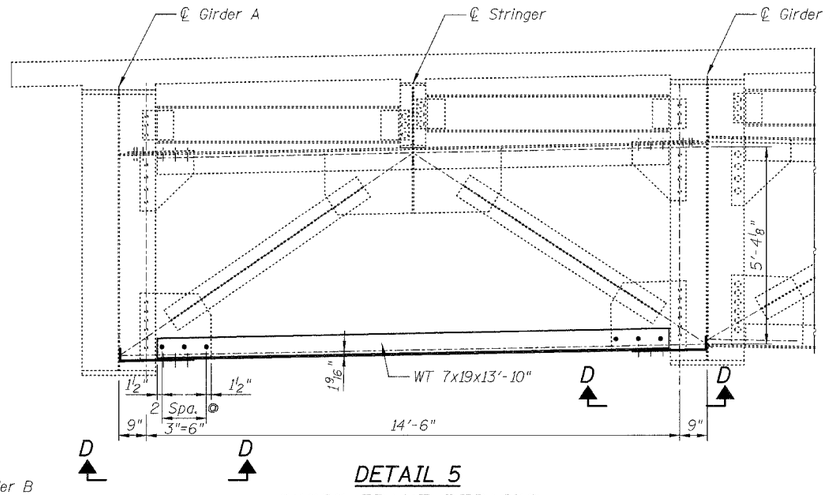
SHEET NO. S-9
S-16 SHEETS

Contract # 60E47

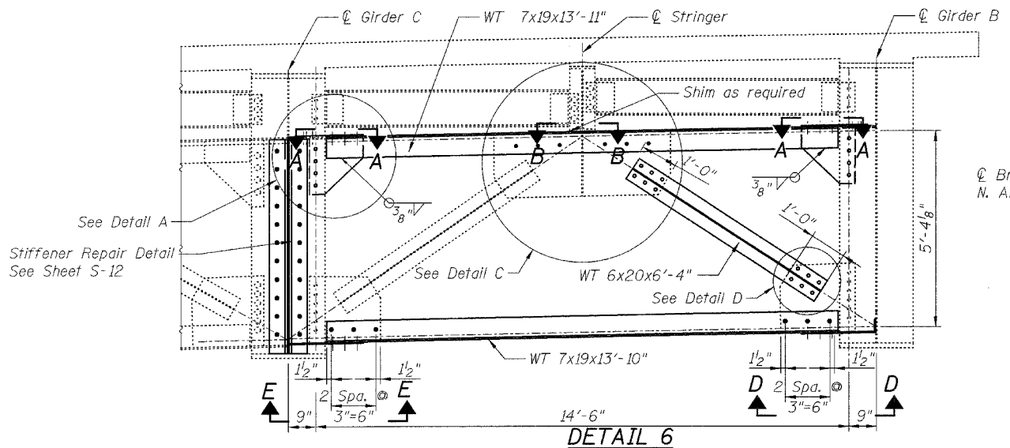
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



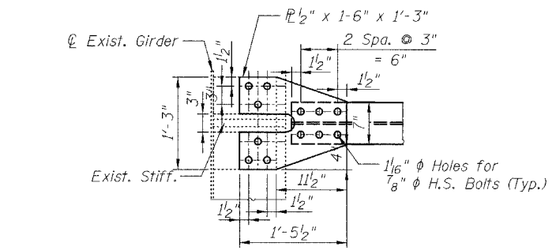
DETAIL 4
CROSS FRAME REPAIRS
Typical for: Girder D-E, N. Abutment
Looking North



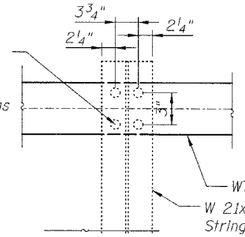
DETAIL 5
CROSS FRAME REPAIRS
Typical for: Girder A-B, N. Abutment
Looking South



DETAIL 6
CROSS FRAME REPAIRS
Typical for: Girder B-C, N. Side Hinge #3
Looking North

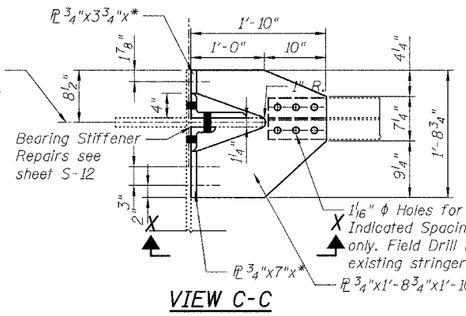


SECTION A-A

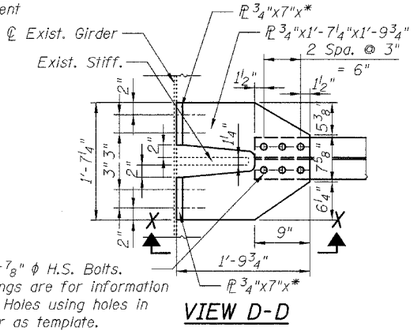


1 1/16" ϕ Holes for ⅞" ϕ H.S. Bolts. Indicated Spacings are for information only. Field Drill Holes using holes in existing stringer as template.

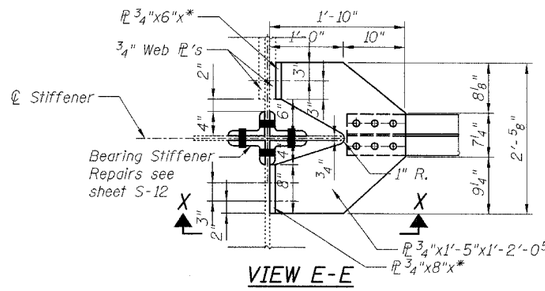
SECTION B-B



VIEW C-C

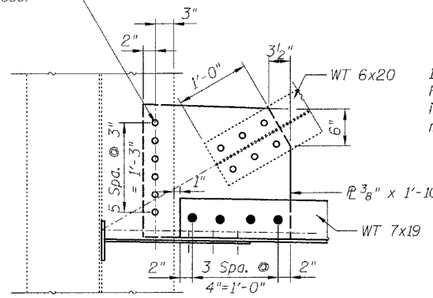


VIEW D-D

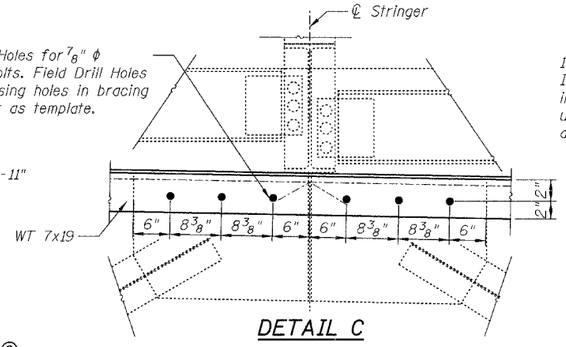


VIEW E-E

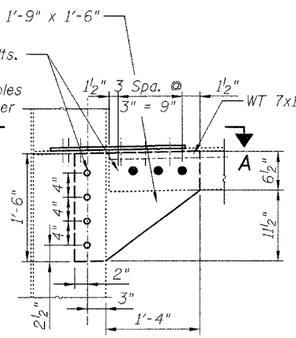
* See Section X-X on Sheet S-12 for the third dimension.



DETAIL B



DETAIL C



DETAIL E

DESIGNED	B. Sauter
CHECKED	E. Mroczek
DRAWN	R. Danley
CHECKED	B. Sauter

Ciorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014 Email chicago@ciorba.com

NOTES:

1. Quantity for steel shown on sheet S-7.
2. See Sheet S-10 for Detail A and Detail D.
3. See Sheet S-12 for Section X-X.

STEEL REPAIRS III
FAU 2697 WILLOW SPRINGS ROAD OVER DES PLAINES RIVER, CHICAGO SANITARY & SHIP CANAL, ILLINOIS AND MICHIGAN CANAL, AND ICG RAILROAD
COOK COUNTY
S.N. 016-0540

n:\proj\3329\3329_30\design\structural\cad\sht\steel repairs\3329_30_09 Steel Repairs 3.sht 4/17/2008 rdanley