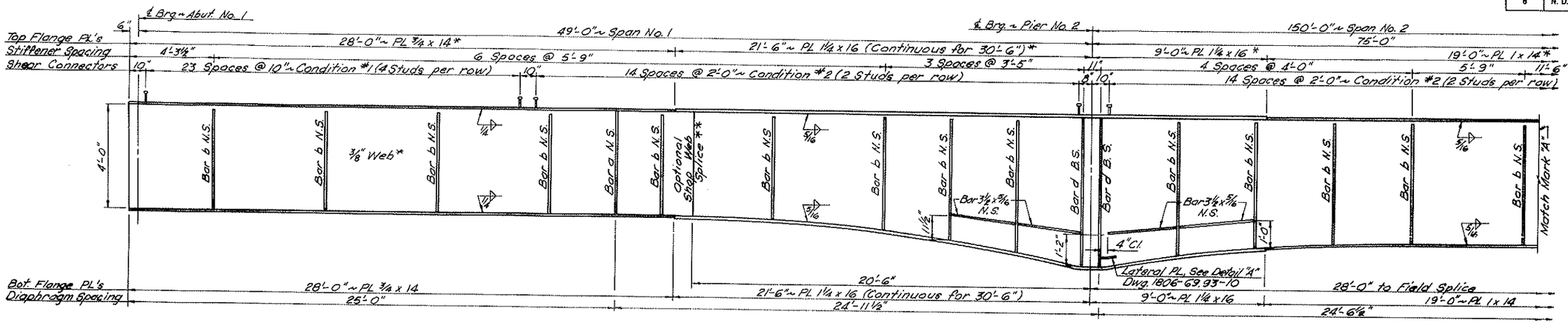
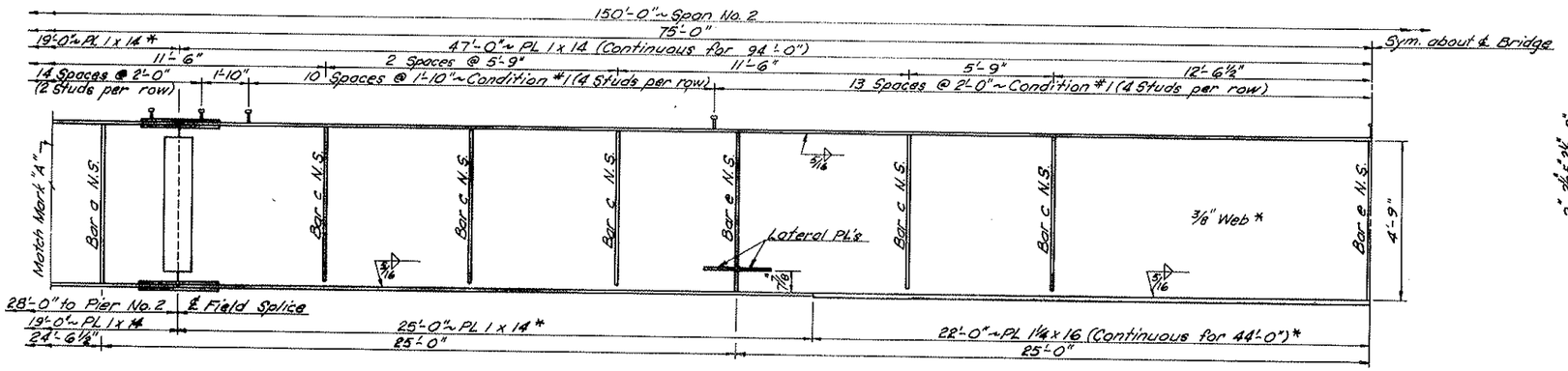
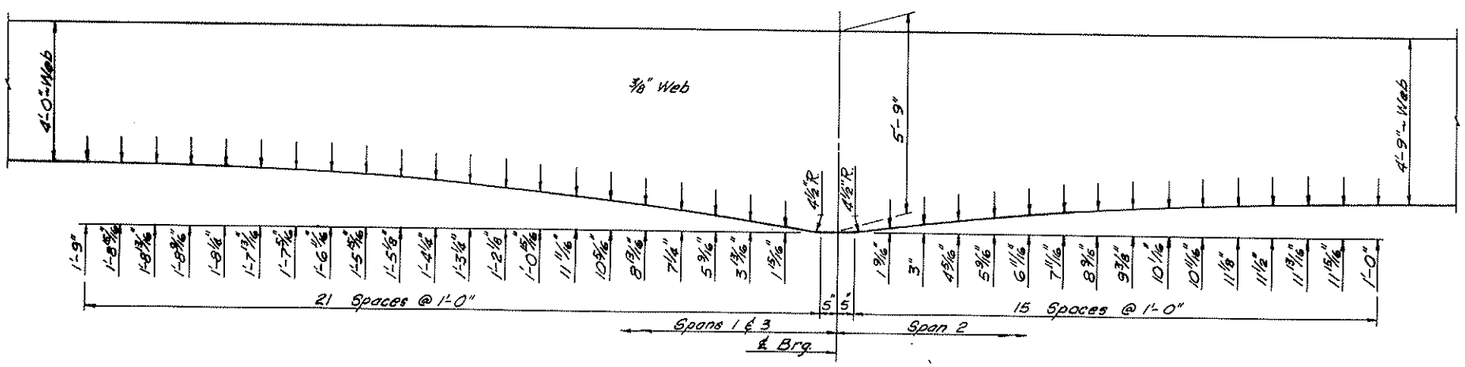
FED. ROAD DIST. NO.	STATE	PROJ. NO	SHEET NO.	TOTAL SHEETS
8	N. D.	BRS-1-806(93)089	21	

	MADE BY	CHECKED BY
DETAILS	D.L.P.	L.E.G.
TRACING	D.L.P.	L.E.G.
QUANTITIES	D.L.P.	L.E.G.

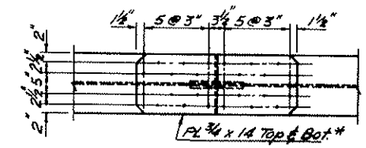


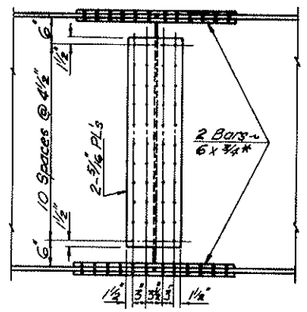


HALF GIRDER ELEVATION
(Inside Face of Girder No. 1 Shown)



GIRDER HAUNCH DETAILS
Showing Web Only





FIELD SPLICE DETAILS

Nomenclature:
N.S. = Near Side
B.S. = Both Sides

** Structural steel pay quantities are based on the use of the optional shop web splice.

*All plates designated by * shall meet the longitudinal Charpy V-notch test for 15 ft.-lb. at 40°F. Sampling and testing procedures shall be in accordance with ASTM A673 - 75. The (H) frequency of heat testing shall be used.

QUANTITIES
See Dwg. 1806-69.93-10

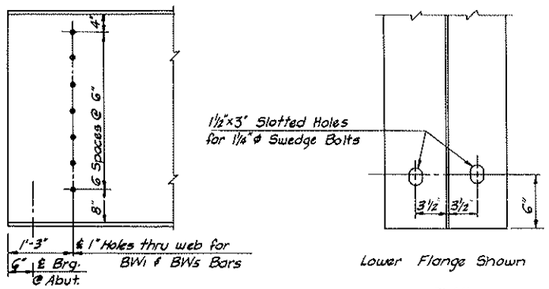
HEART RIVER BRIDGE

WELDED GIRDER DETAILS

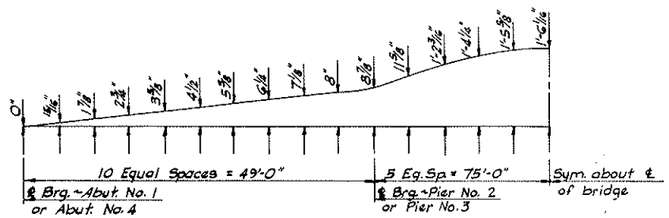
1806-69.93-9

1806-69.93-9

FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
8	N. D.	BRS-I-806(09)069	22	

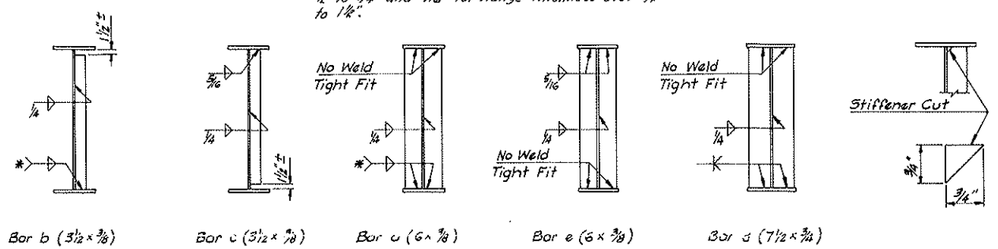


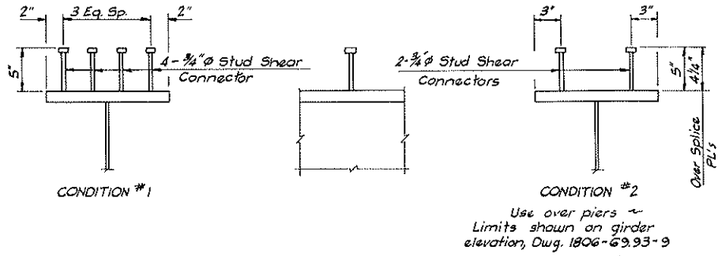
GIRDER DETAILS @ ABUTMENT



SHOP CAMBER DIAGRAM

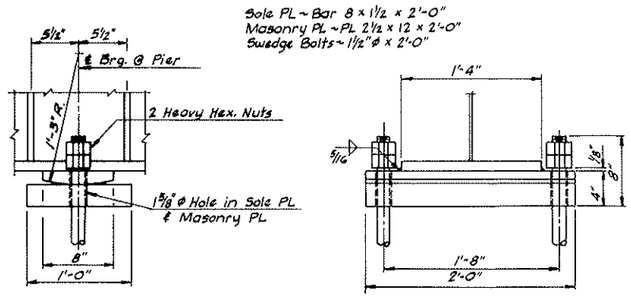
* Weld size to be ¼" for flange thickness over ½" to ¾" and 5/16" for flange thickness over ¾" to 1¼".



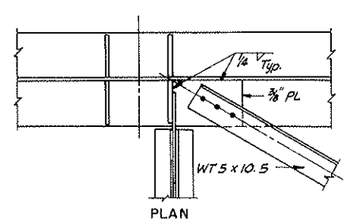


For each row of studs, one C 5 x 6.7 may be substituted if contractor submits plans showing details.

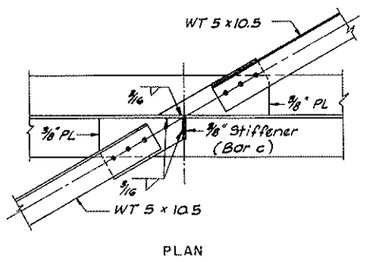
SHEAR CONNECTOR DETAILS



PIER BEARING DETAILS



DETAIL "A"



DETAIL "B"

STRUCTURAL STEEL:

THE GIRDER SHALL BE CAMBERED IN THE SHOP AS DETAILED ON DRAWING 1806-69.93-10. THE SHOP CAMBER DIAGRAM REPRESENTS THE TOTAL RISE, IN INCHES, ABOVE A CHORD BETWEEN THE CENTERLINES OF BEARINGS THAT IS TO BE CUT INTO THE WEB PLATES OF THE GIRDERS TO COMPENSATE FOR THE DEAD LOAD DEFLECTION OF THE SUPERSTRUCTURE AND VERTICAL CURVE.

A MINIMUM OF TWO (2) CONTIGUOUS BEAM SECTIONS SHALL BE PLACED IN THEIR CORRECT RELATIVE POSITIONS BEFORE DRILLING THE HOLES FOR THE BEAM FIELD SPLICE BETWEEN THESE SECTIONS. THE PROPER ALIGNMENT SHALL BE MAINTAINED BETWEEN SECTIONS WHILE REAMING THE HOLES. TEMPLATES SHALL NOT BE USED IN LIEU OF THE ABOVE SHOP ASSEMBLY.

WIRE ROPE SLINGS SHALL NOT BE USED TO HANDLE THE BEAMS. THEY SHALL BE HANDLED WITH BEAM CLAMPS DESIGNED FOR THAT PURPOSE OR OTHER DEVICES APPROVED BY THE ENGINEER.

GIRDER FLANGES ARE TO BE A572 GRADE 50, ALL OTHER STRUCTURAL STEEL SHALL BE A36.

WELDED CONNECTIONS OF DIAPHRAGM ANGLES TO GUSSET PLATES MAY BE USED IN PLACE OF THE BOLTED CONNECTIONS SHOWN. DETAILS SHOULD BE SHOWN ON SHOP DRAWINGS.

QUANTITIES	
Structural Steel (A572)	120,692 Lb.
Structural Steel (A36)	187,031 Lb.

HEART RIVER BRIDGE

WELDED GIRDER DETAILS

TRACING CHECKED BY
QUANTITIES CHECKED BY

1806-69.93-10

1806-69.93-10