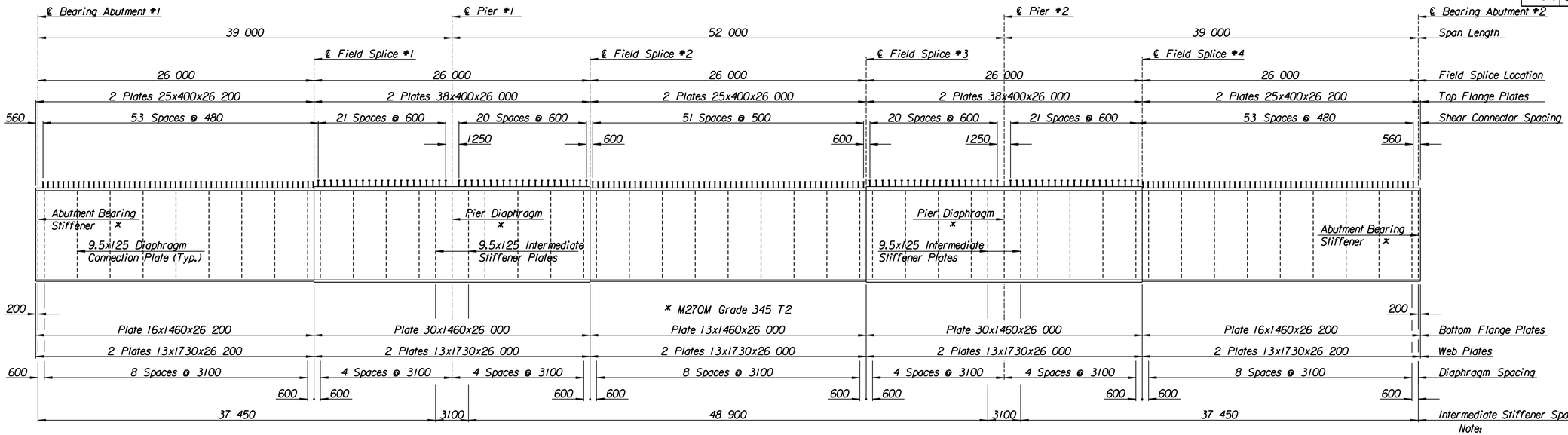
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	54-87 K-6657-01	2002	589	1122



GIRDER ELEVATION

Note:
Unless otherwise noted, all longitudinal dimensions are measured horizontally along flange centerlines. Length of flanges and web plates shall be corrected as required for grade, vertical curvature and shrinkage caused by welding.

Abutment, pier and field splice centerlines are shown at centerline of Box.

Bearing stiffeners shall be placed vertical.

All bearing stiffeners shall be placed normal to centerline of Box.

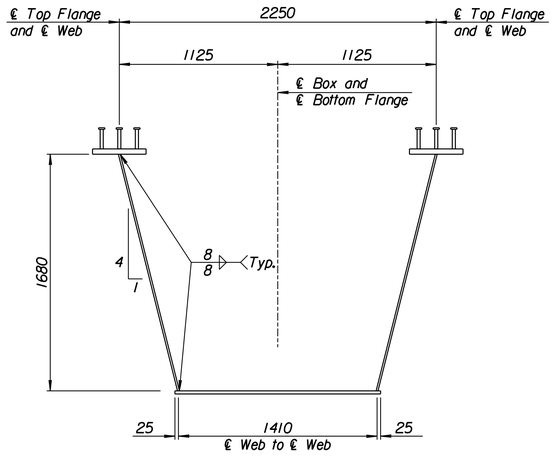
All diaphragm connection plates and intermediate stiffeners shall be 9.5x125 unless otherwise shown.

Diaphragm connection plates and intermediate stiffeners shall be placed on the side of the web indicated in the framing plan.

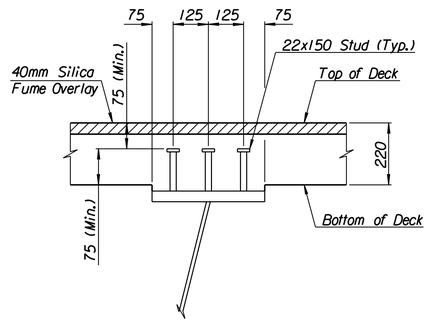
All intermediate stiffeners and diaphragm connection plates shall be placed normal to the flange

All intermediate stiffeners and diaphragm connection plates shall be placed normal to centerline of Box.

Stiffener and connection plate lengths (inside to inside of flanges) are 1730 unless otherwise shown.



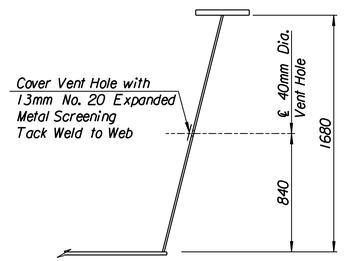
TYPICAL BOX GIRDER SECTION



SHEAR CONNECTOR DETAIL

Note:
Length shown for studs is proposed. The actual length shall satisfy stud penetration requirements after beam erection.

PERMANENT STEEL DECK FORMS: Use Type 1 steel deck forms conforming to ASTM A446M. Support hangers shall be a non-welded system. Do not weld to any flange. Compute the pay quantity of the concrete slab based on nominal slab dimension with no allowance for corrugations. No direct payment will be made for deck forms or any additional concrete. These items will be considered subsidiary to "Concrete (Grade 30)(AE)(SA)". Use permanent steel deck forms inside the box girders (non-exposed area) only.



WEB VENT HOLE

Place Vent Holes in Each Web at 15m Maximum Spacing, 7.5m Minimum from ℄ Pier.

Note:
Miscellaneous Structural Steel includes Access Manhole Plate Frame, Hinged Plates at Girder Ends and Bent Plates for Drainage.

STRUCTURAL STEEL SUMMARY FOR ONE GIRDER (kg)

Girder Components	M270M Gr. 345 T2	A709M Gr. 250
Top Flange Plates	24 715	
Bottom Flange Plates	31 270	
Web Plates	46 038	
Abutment Bearing Stiffeners	772	
Pier Bearing and Jacking Stiffeners	699	
Intermediate Stiffeners		129
Diaphragm Connection Plates		1388
Abutment Diaphragms		36
Type D-1 Diaphragms		1264 ~~1374~~
Type D-2 Diaphragms		356
Pier Diaphragms		969
Lateral Bracing		3016
Miscellaneous Structural Steel		73
Totals	103 494	7341

ADDENDUM No. 2:

Sheet 589
1. In the STRUCTURAL STEEL SUMMARY FOR ONE GIRDER Table, revise the mass for Type D-1 Diaphragms from 1374 kg to 1264 kg.

RECORD DRAWING

No.	Revisions	By	Date
1			

CITY OF WICHITA
BR. NO. 54-87-20.13 (496) W.B. STA. 17+332.607
BR. NO. 54-87-20.12 (497) E.B. STA. 17+332.607

GIRDER DETAILS
KELLOGG (US-54)
OVER TYLER ROAD
SEDGWICK COUNTY

Professional Engineering Consultants, P.A.
303 S. TOPEKA • WICHITA, KANSAS 67202
316-262-2691 • FAX 316-262-3003

Designed by	P.D.F.	Checked by	R.A.S.	
Drawn by	W.L.L.	Date	April 2002	Job No. 97362

Drawn by: will
Plotted by: gdr Sept. 07
I:/1997/97362/As-Builts/dgn's/Vol_3/Sh 589-girder.dgn Last Rev: 9-6-07 By: gdr