

NOTES

ALL STRUCTURAL STEEL SHALL BE AASHTO M270 GRADE 345W STEEL AND PAINTED IN ACCORDANCE WITH SYSTEM 4 OF ARTICLE 442-7 OF THE STANDARD SPECIFICATIONS UNLESS OTHERWISE NOTED ON THE PLANS.

ALL DIMENSIONS SHOWN ARE HORIZONTAL OR VERTICAL, UNLESS OTHERWISE NOTED.

ALL FIELD CONNECTIONS TO BE 22.23mm DIA. HIGH STRENGTH BOLTS UNLESS OTHERWISE NOTED.

TENSION ON THE AASHTO M164 BOLTS SHALL BE CALIBRATED USING DIRECT TENSION INDICATOR WASHERS IN ACCORDANCE WITH ARTICLE 440-10 OF THE STANDARD SPECIFICATIONS.

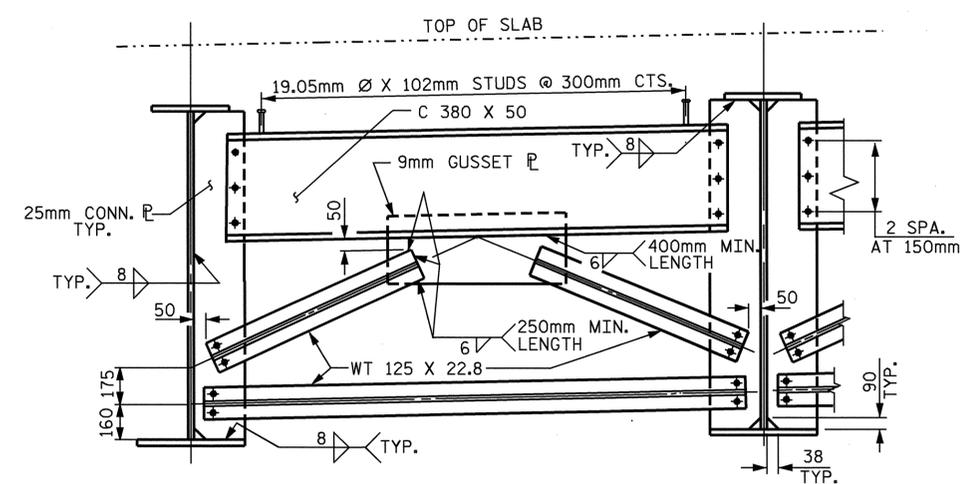
BEARING STIFFENERS ARE TO BE PLACED ALONG SKEW AT END BENTS 1 & 2 AND SHALL BE PLUMB.

BEARING STIFFENERS ARE TO BE PLACED ALONG SKEW AT BENT 1 AND SHALL BE PLUMB.

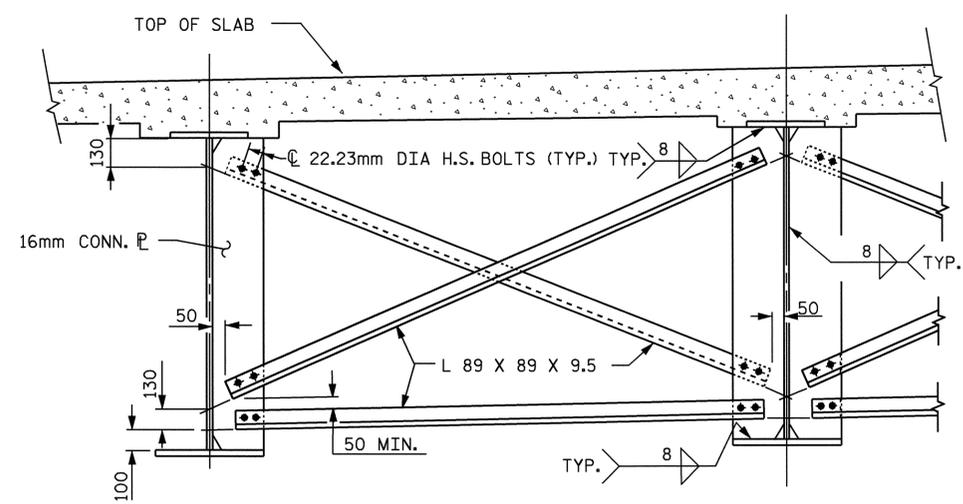
SHOP SPLICES ARE PERMITTED TO LIMIT THE MAXIMUM REQUIRED FLANGE PIECE LENGTHS TO 18 METERS AND WEB PIECE LENGTHS TO 14 METERS. PERMITTED FLANGE AND WEB SHOP SPLICES SHALL NOT BE LOCATED WITHIN 4.5 METERS OF MAXIMUM DEAD LOAD DEFLECTION (NOR WITHIN 4.5 METERS OF INTERMEDIATE BEARINGS OF CONTINUOUS UNITS). KEEP 600mm MINIMUM BETWEEN WEB AND FLANGE SHOP SPLICES. KEEP 150mm MINIMUM BETWEEN CONNECTOR PLATE OR TRANSVERSE STIFFENER WELDS AND WEB OR FLANGE SHOP SPLICES.

STUDS ON GIRDERS MAY BE SHIFTED UP TO 25mm IF NECESSARY TO CLEAR FLANGE SPlice WELD.

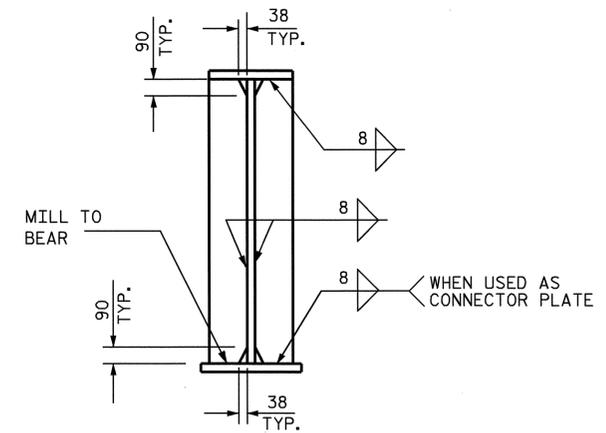
ENDS OF GIRDERS SHALL BE PLUMB.



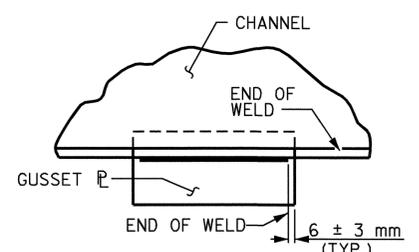
TYPICAL END BENT DIAPHRAGM (D1)



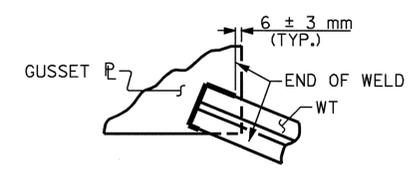
TYPICAL INTERMEDIATE & BENT DIAPHRAGM (D2)



BEARING STIFFENER

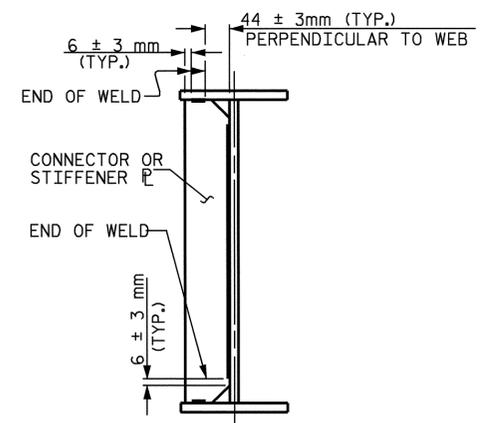


TYPICAL GUSSET PLATE CONNECTION

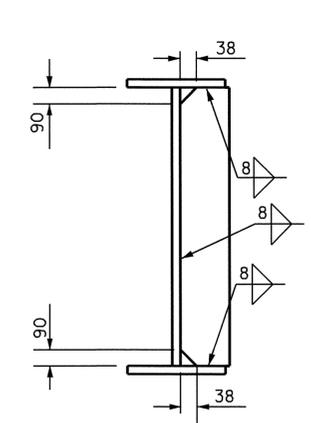


TYPICAL "TEE" TO GUSSET PLATE CONNECTION

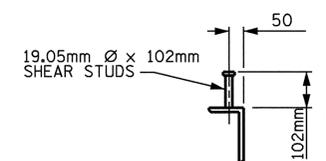
WELD TERMINATION DETAILS



TYPICAL STIFFENER OR CONNECTOR PLATE CONNECTIONS



CONNECTOR PLATE

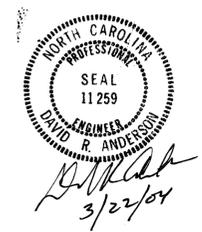


SHEAR STUD DETAILS

PROJECT NO. R-513C
ROBESON COUNTY
STATION: 17+37.086 -Y3-

SHEET 3 OF 5

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
SUPERSTRUCTURE
STRUCTURAL
STEEL DETAILS



DRAWN BY : S. M. RASHIDI DATE 02-28-01
CHECKED BY : T. A. WALTER DATE 04-24-01

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS
2			4			312