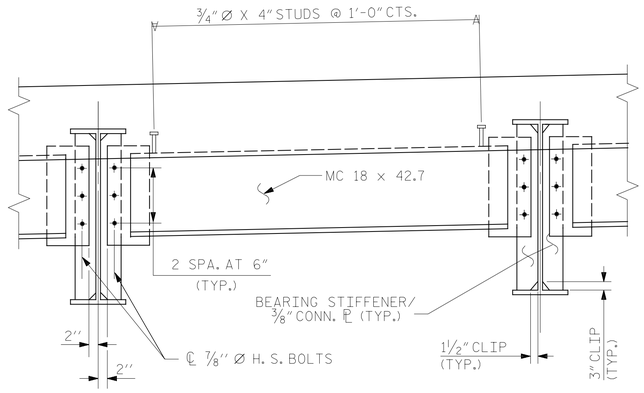
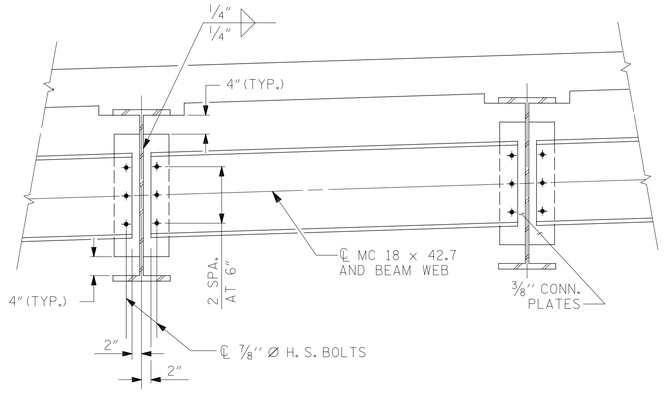
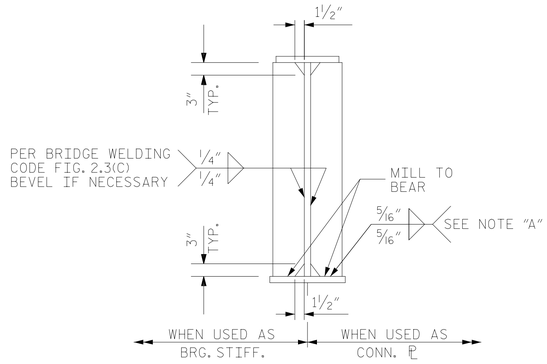


TYPICAL END BENT DIAPHRAGM (D1)



INTERMEDIATE DIAPHRAGM (D2)



BEARING STIFFENER

NOTE "A":
ONLY WELD BEARING STIFFENER TO BOTTOM FLANGE IF DIAPHRAGM IS ATTACHED TO BEARING STIFFENER.

NOTES:

ALL STRUCTURAL STEEL SHALL BE AASHTO M270 GRADE 50W AND PAINTED IN ACCORDANCE WITH SYSTEM 4 OF ARTICLE 442-8 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 7/8" DIA. HIGH STRENGTH BOLTS UNLESS OTHERWISE NOTED.

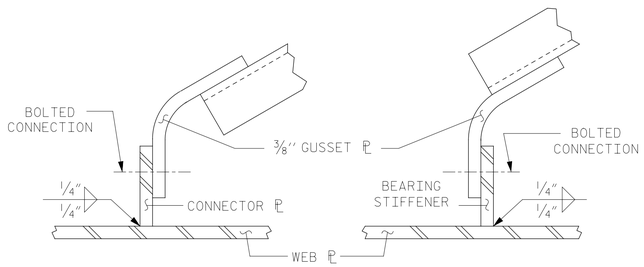
BEARING STIFFENERS ARE TO BE PLACED NORMAL TO THE WEB OF THE GIRDER AND SHALL BE PLUMB.

A CHARPY V-NOTCH TEST IS REQUIRED FOR WEB PLATES AND BOTTOM FLANGE PLATES FOR ALL GIRDERS AND IN ACCORDANCE WITH ARTICLE 1072-7 OF THE STANDARD SPECIFICATIONS.

PERMITTED FLANGE AND WEB SHOP SLICES SHALL NOT BE LOCATED WITHIN 15 FEET OF MAXIMUM DEAD LOAD DEFLECTION (NOR WITHIN 15 FEET OF INTERMEDIATE BEARINGS OF CONTINUOUS UNITS). KEEP 2 FEET MINIMUM BETWEEN WEB AND FLANGE SHOP SLICES. KEEP 6" MINIMUM BETWEEN CONNECTOR PLATE OR TRANSVERSE STIFFENER WELDS AND WEB OR FLANGE SHOP SPLICES.

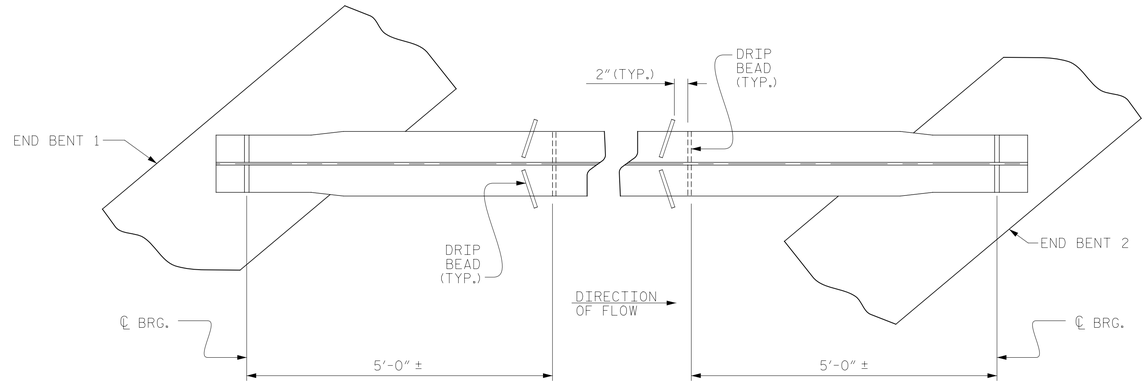
STUDS ON GIRDERS MAY BE SHIFTED UP TO 1" IF NECESSARY TO CLEAR FLANGE SPLICE WELD.

TENSION ON THE ASTM A325 BOLTS SHALL BE CALIBRATED USING DIRECT TENSION INDICATOR WASHERS IN ACCORDANCE WITH ARTICLE 440-8 OF THE STANDARD SPECIFICATIONS.

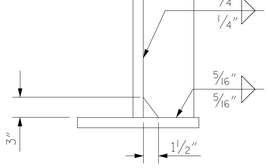


WITH CONNECTOR ℙ — WITH BEARING STIFFENER

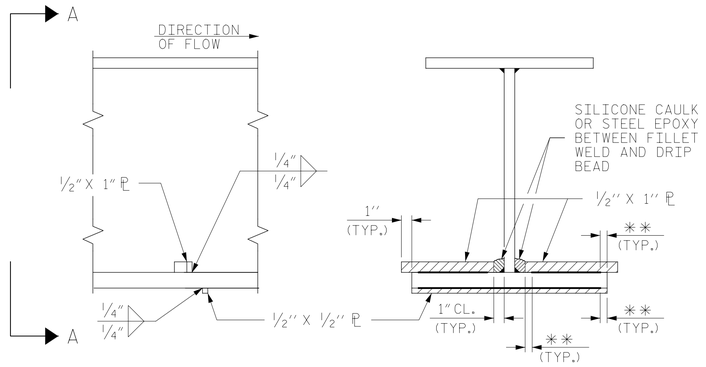
GUSSET PLATE DETAILS



PART PLAN - BOTTOM FLANGE



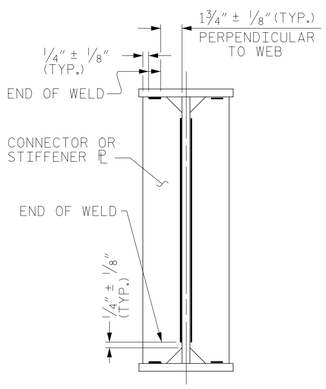
CONNECTOR PLATE DETAILS



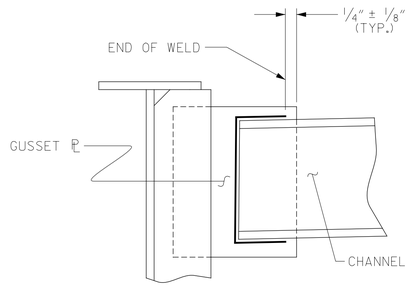
SECTION — VIEW A-A

**SEE "WELD TERMINATION DETAILS"

DRIP BEAD DETAILS



TYPICAL STIFFENER OR CONNECTOR PLATE CONNECTIONS



TYPICAL CHANNEL CONNECTION

WELD TERMINATION DETAILS

PROJECT NO. 41665.7A
CUMBERLAND COUNTY
STATION: 107+16.84 -L2-
13+69.76 -Y-

SHEET 2 OF 2

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUPERSTRUCTURE
STRUCTURAL STEEL

NORTH CAROLINA PROFESSIONAL SEAL 037180 ENGINEER RICHARD F WERTMAN

DocuSigned by: Richard F Wertman 08901A86EBF647D...
11/7/2017

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S03-9
1			3			TOTAL SHEETS
2			4			24

DRAWN BY : T.M. FORD DATE : 10/11/17
CHECKED BY : R.F. WERTMAN DATE : 10/16/17
DESIGN ENGINEER OF RECORD : R.F. WERTMAN DATE : 11/06/17

PLANS PREPARED BY:
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NC Lic. No. F-0270

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STR. NO. 3