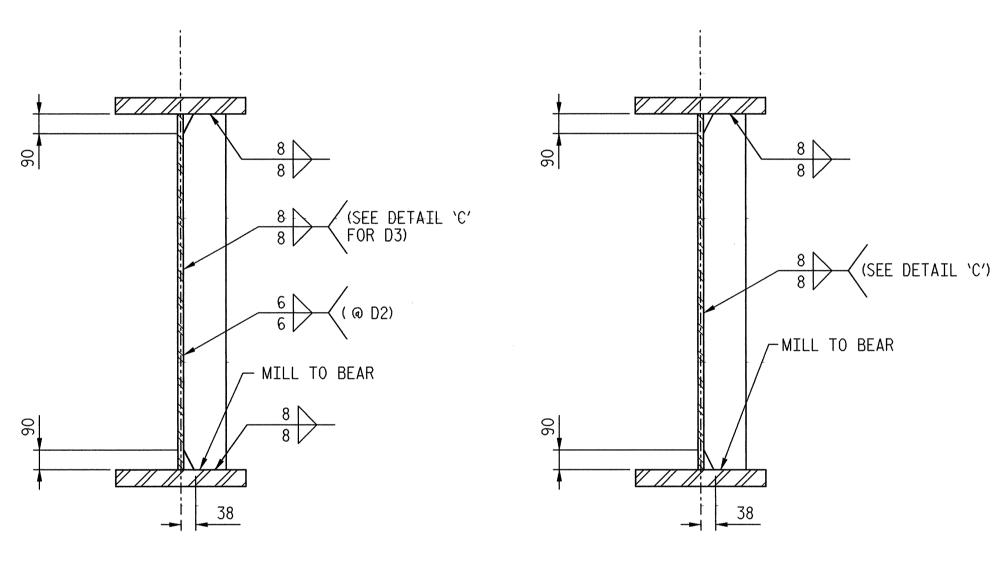


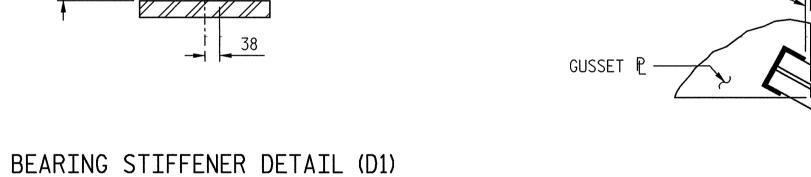
TYPICAL INTERMEDIATE CROSSFRAME (D2) AND BENT CROSSFRAME (D3)

- CHANNEL

STRUCTURAL STEEL NOTES:

- 1. ALL STRUCTURAL STEEL SHALL BE AASHTO M270 GRADE 345W AND PAINTED IN ACCORDANCE WITH SYSTEM 4 OF ARTICLE 442-7 OF THE STANDARD SPECIFICATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
- 2. ALL DIMENSIONS SHOWN ARE HORIZONTAL OR VERTICAL, UNLESS OTHERWISE NOTED.
- 3. ALL FIELD CONNECTIONS TO BE 22.23mm DIA. HIGH STRENGTH BOLTS UNLESS OTHERWISE NOTED.
- 4. BEARING STIFFNESS ARE TO BE PLACED NORMAL TO THE WEB OF THE GIRDER AND SHALL BE PLUMB.
- 5. 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.
- 6. STUDS ON GIRDERS MAY BE SHIFTED UP TO 25mm IF NECESSARY TO CLEAR FLANGE SPLICE WELD.
- 7. TENSION ON THE AASHTO M164 BOLTS SHALL BE CALIBRATED USING DIRECT TENSION INDICATOR WASHERS IN ACCORDANCE WITH ARTICLE 442-10 OF THE STANDARD SPECIFICATIONS.
- 8. ENDS OF BEAMS AND GIRDERS SHALL BE PLUMB.
- 9. STRUCTURAL STEEL ERECTION IN A CONTINUOUS UNIT SHALL BE COMPLETE BEFORE FALSEWORK OR FORMS ARE PLACED ON THE UNIT.
- 10. THE CONTRACTOR MAY, WHEN NECESSARY, PROPOSE A SCHEME FOR AVOIDING INTERFERENCE BETWEEN METAL STAY-IN-PLACE FORM SUPPORTS OR FORMS AND BEAM/GIRDER STIFFENERS OR CONNECTOR PLATES. THE PROPOSAL SHALL BE INDICATED, AS APPROPRIATE, ON EITHER THE STEEL WORKING DRAWINGS OR THE METAL STAY-IN-PLACE FORM WORKING DRAWINGS.





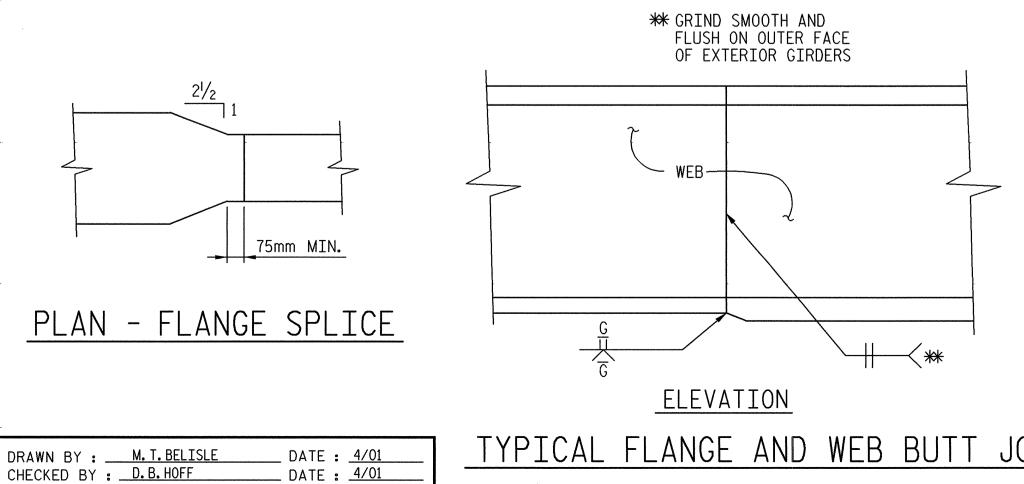
€ GIRDER —— © GIRDER —— GUSSET P ---END OF WELD ----6mm ± 3mm -||-(TYP.) CROSSFRAME TYPICAL GUSSET PLATE CONNECTION - 32mm x 267mm MIN. BRG. STIFFENER/CONN. P (TYP.) € BEARING
@ BENT #1 -END OF WELD-PLAN OF BENT CROSSFRAME (D3)

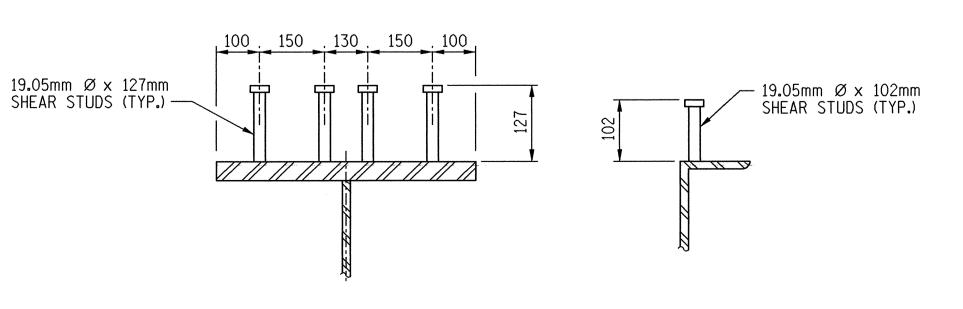
10mm MIN. STIFFENER P 8mm MIN. WEB P_ DETAIL "C"

PROJECT NO.

TYPICAL "TEE" TO GUSSET PLATE CONNECTION

WELD TERMINATION DETAILS





TRANSYSTEMS CORPORATION

COUNTY 52+34.693 -L- = STATION: 18+60.011 -Y2-SHEET 4 OF 5 STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION 75 Beattle Place, Suite 400 Greenville, SC 29601 (864) 234-0866

JOHNSTON

SUPERSTRUCTURE STRUCTURAL STEEL DETAILS

SHEET NO. **REVISIONS** 5-410 DATE: TOTAL SHEETS

R-2552AB

_ DATE : <u>4/01</u> _ DATE : <u>4/01</u>

BEARING STIFFENER/

CONNECTOR PLATE DETAIL (D2, D3)

TYPICAL FLANGE AND WEB BUTT JOINT

SHEAR STUD DETAILS