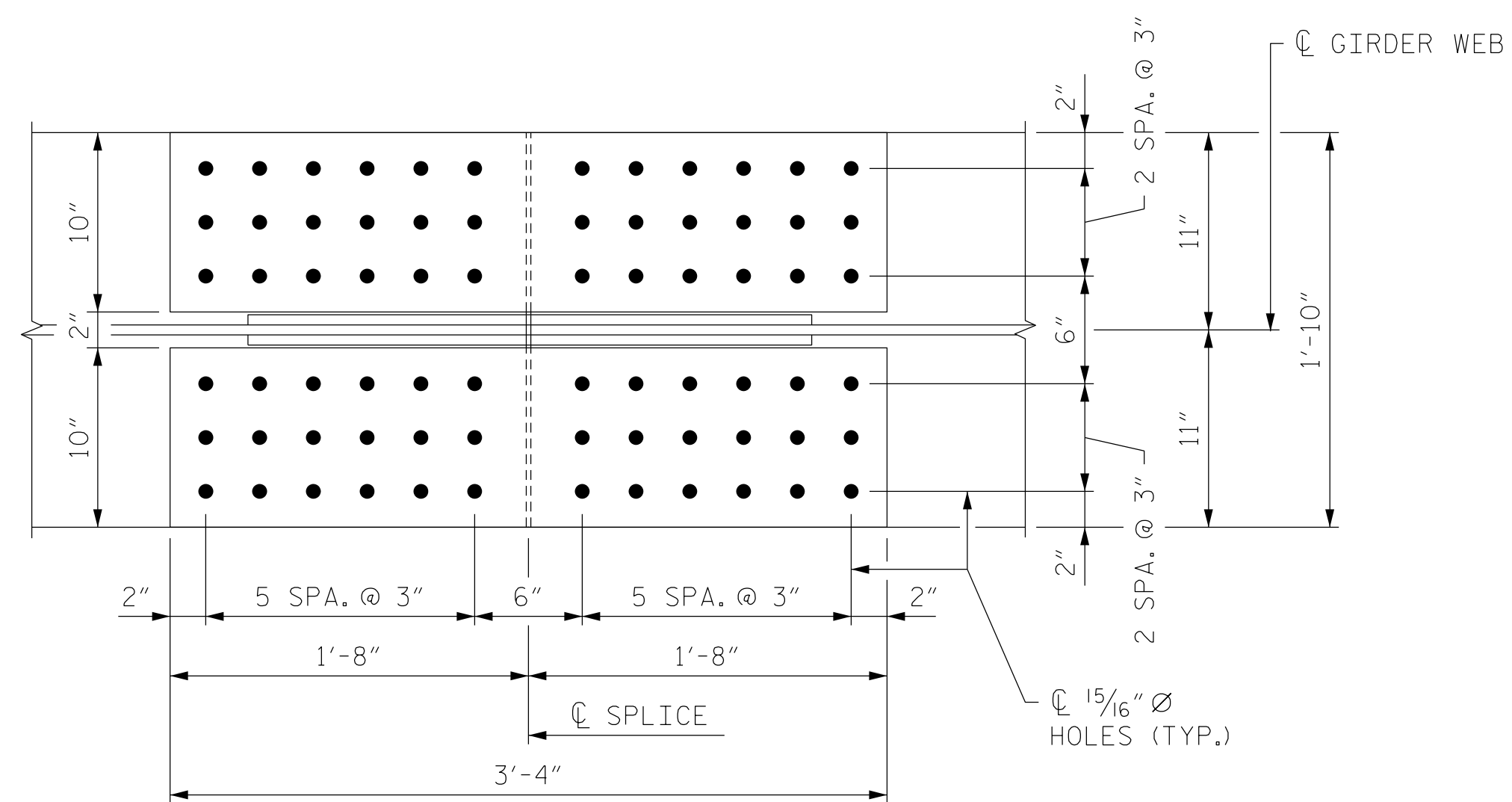
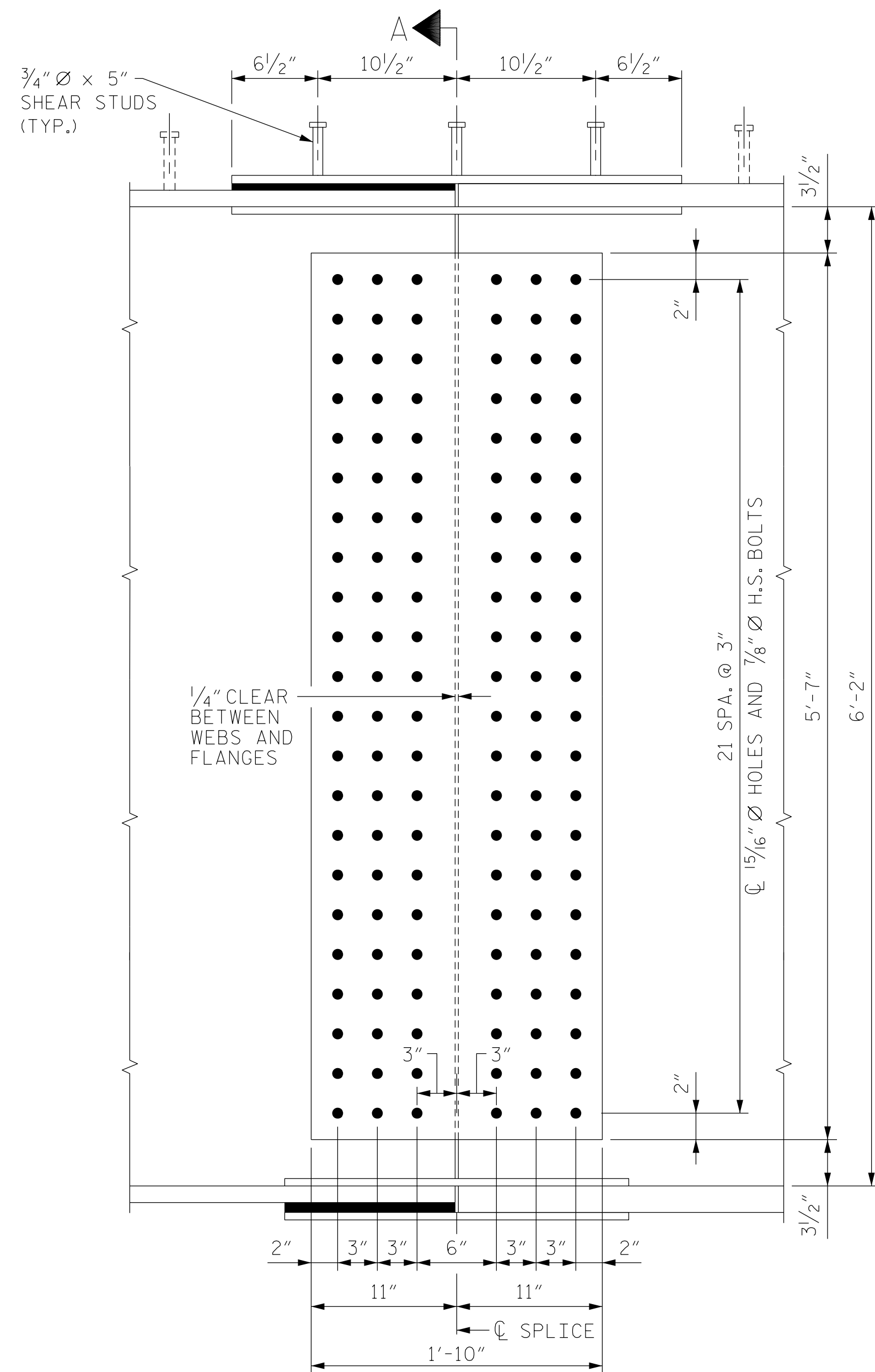


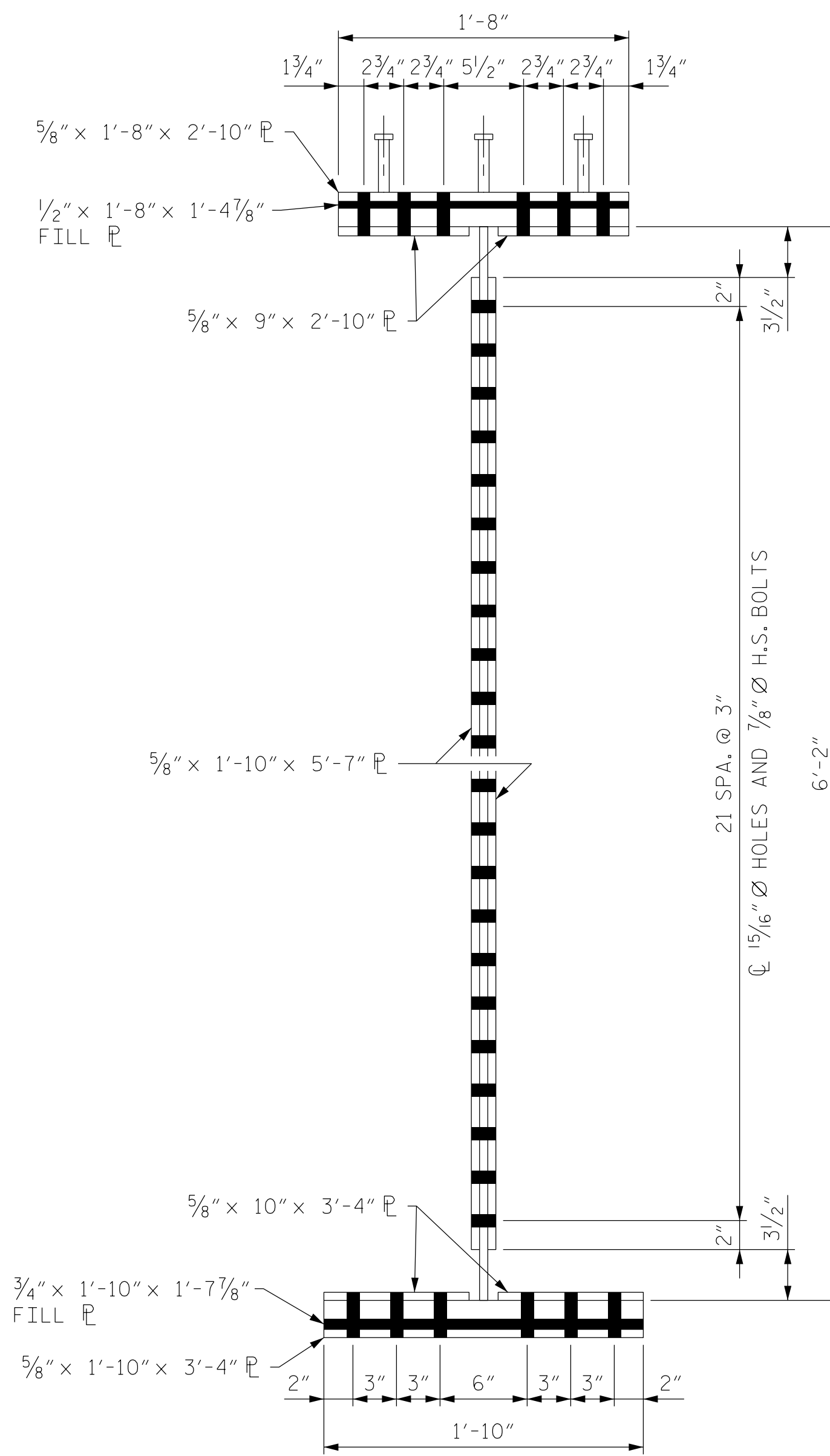
PLAN (TOP OF TOP FLANGE)



PLAN (TOP OF BOTTOM FLANGE)



ELEVATION



SECTION A-A

NOTES:

ALL STRUCTURAL STEEL, INCLUDING BEARINGS, SHALL BE ASTM A1010 GRADE 50 AND SHALL BE BID AS LUMP SUM COST. FOR INFORMATION PURPOSES, THE PROJECT ENTAILS ROUGHLY 906,832 LBS OF STRUCTURAL STEEL TO BE CONFIRMED BY THE FABRICATOR. ALL STRUCTURAL STEEL SHALL BE UNPAINTED.

FOR A1010 STRUCTURAL STEEL, SEE SPECIAL PROVISIONS. 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.

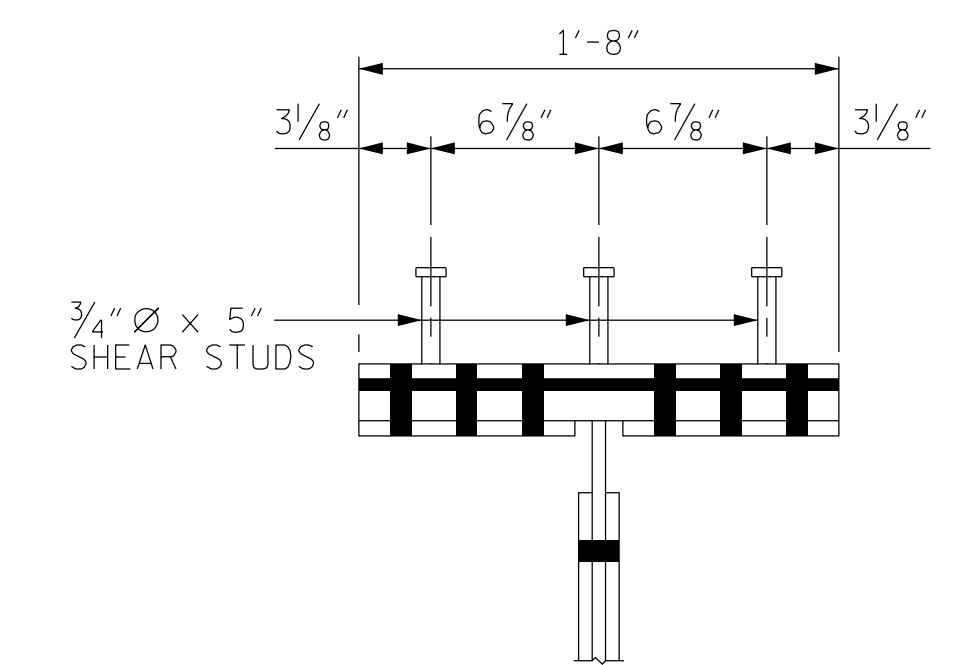
CAMBERED GIRDER LENGTHS SHALL BE ADJUSTED AND BEARINGS ARE TO BE PLACED ON THE CAMBERED GIRDER SO AS TO BE ALIGNED WITH THE ANCHORS AFTER THE DEAD LOAD DEFLECTION HAS OCCURRED. SHOP DRAWINGS SHALL BE PREPARED ACCORDINGLY.

SHOP SPLICES ARE PERMITTED TO LIMIT THE MAXIMUM REQUIRED FLANGE PIECE LENGTHS TO 60 FEET AND WEB PIECE LENGTHS TO 45 FEET. PERMITTED FLANGE AND WEB SHOP SPLICES 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 SPLICES.

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

END OF GIRDERS SHALL BE PLUMB.

\* NOTE: SHEAR STUDS ARE TO BE SHOP WELDED ON TOP OF PLATE BEFORE FIELD ASSEMBLY.



SHEAR STUD DETAIL FOR TOP FLANGE SPLICE PLATE

PROJECT NO. B-4929  
PENDER COUNTY  
STATION: 38+13.81 -L2-

SHEET 4 OF 4 STEEL ALTERNATE

6/2/2016



DocuSigned by: T.H. Carroll III

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

| REVISIONS |     |       |     |     |       | SHEET NO.    |  |
|-----------|-----|-------|-----|-----|-------|--------------|--|
| NO.       | BY: | DATE: | NO. | BY: | DATE: | S-241        |  |
| 1         |     |       | 3   |     |       | TOTAL SHEETS |  |
| 2         |     |       | 4   |     |       | 278          |  |

DRAWN BY: K. WHITE DATE: FEB 2016  
CHECKED BY: T.H. CARROLL DATE: MAY 2016  
DESIGN ENGINEER OF RECORD: T.H. CARROLL DATE: MAY 2016

\*\*\*\*\*SYSTEM TIME\*\*\*\*\*  
\*\*\*\*\*DCN\*\*\*\*\*  
\*\*\*\*\*USERNAME\*\*\*\*\*

BOLTED FIELD SPLICE DETAILS  
(TYPICAL EACH FIELD SPLICE)

DOCUMENT NOT CONSIDERED  
FINAL UNLESS ALL  
SIGNATURES COMPLETED