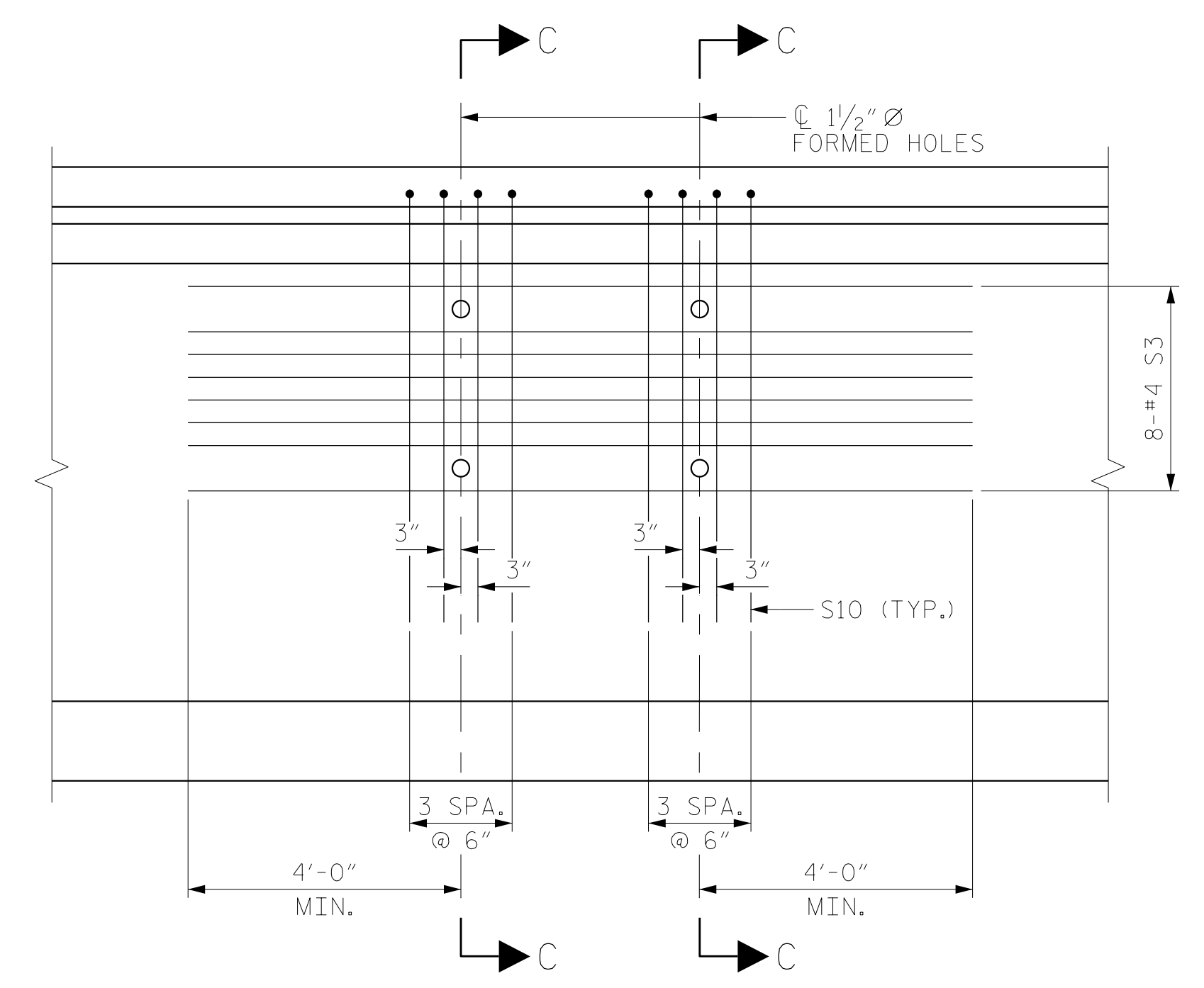
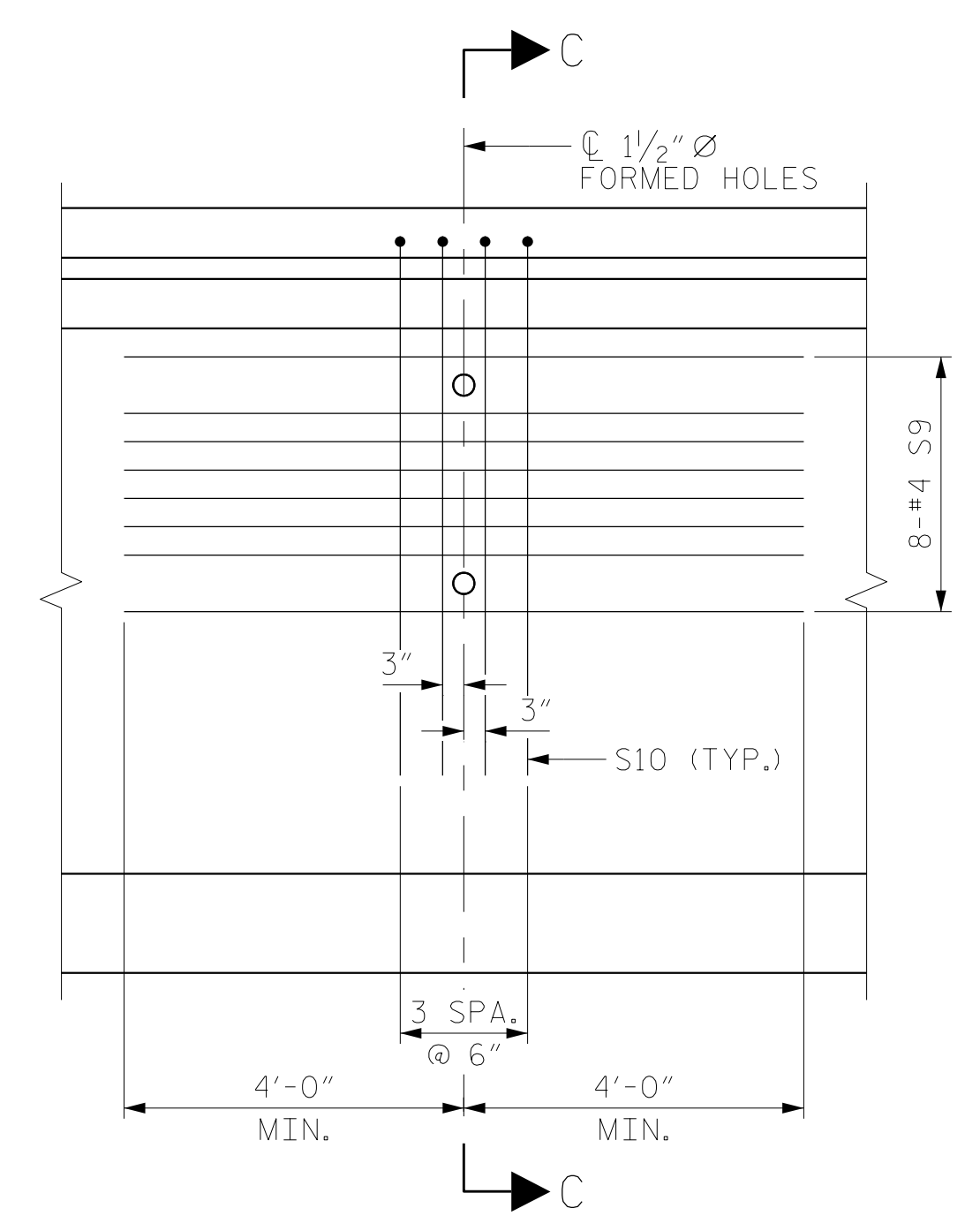


SECTION C-C

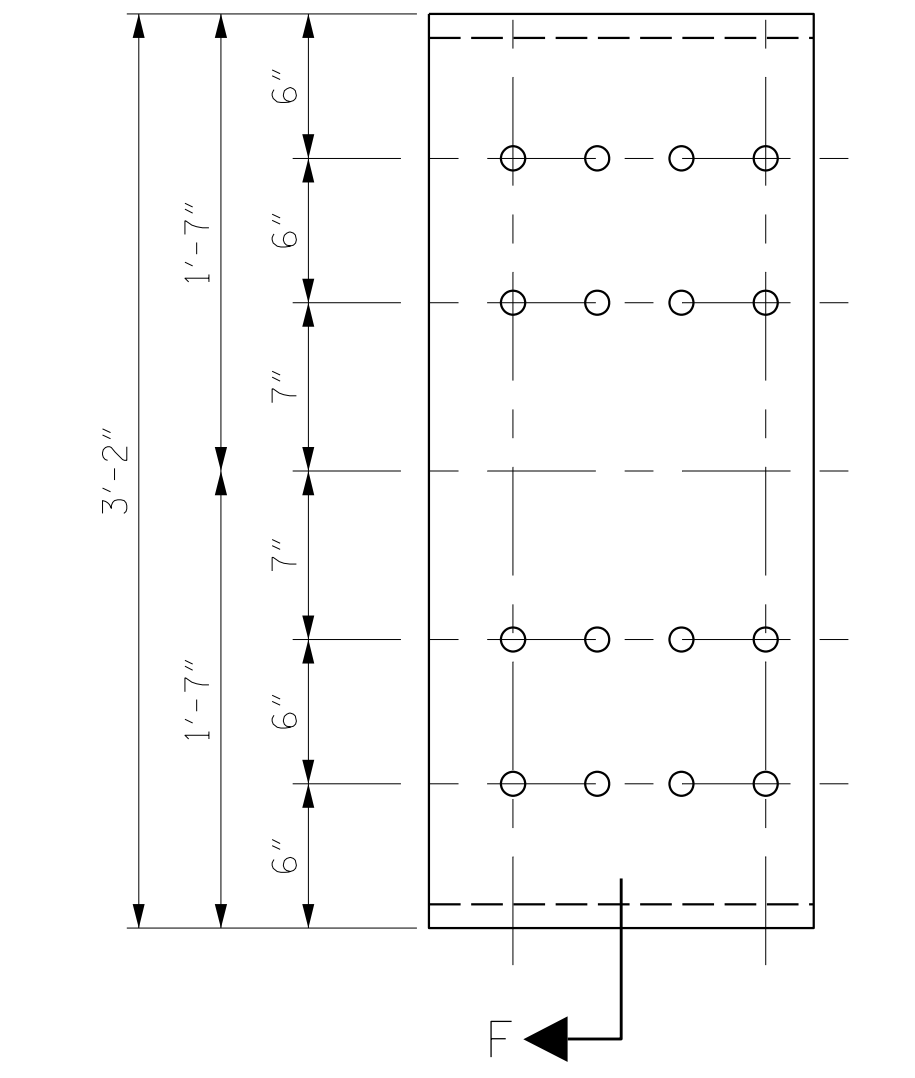
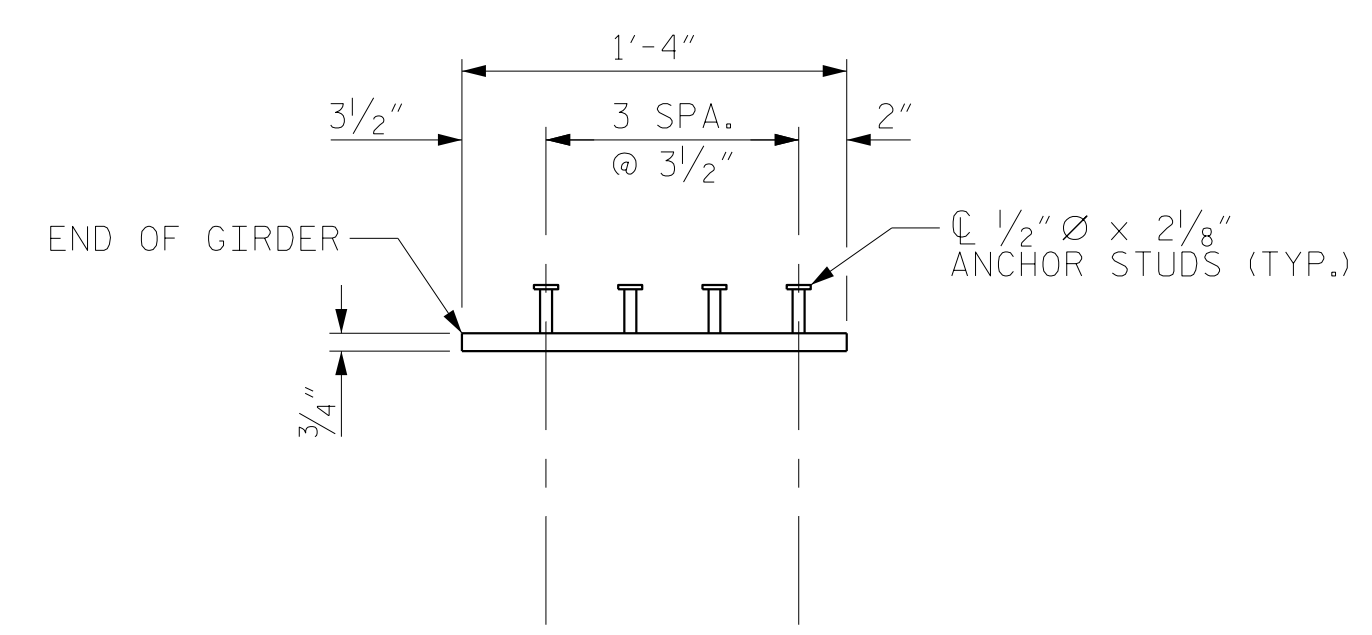


INTERIOR GIRDER

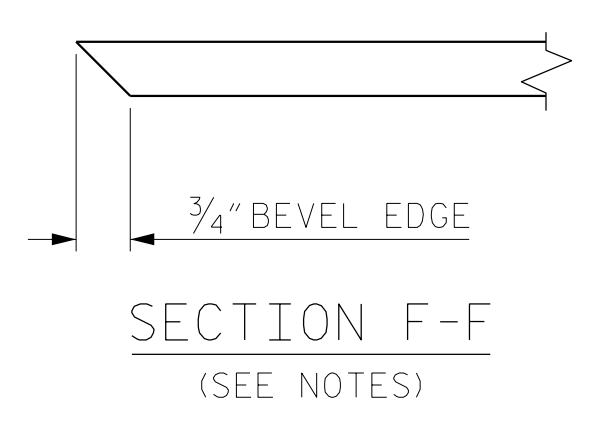


EXTERIOR GIRDER

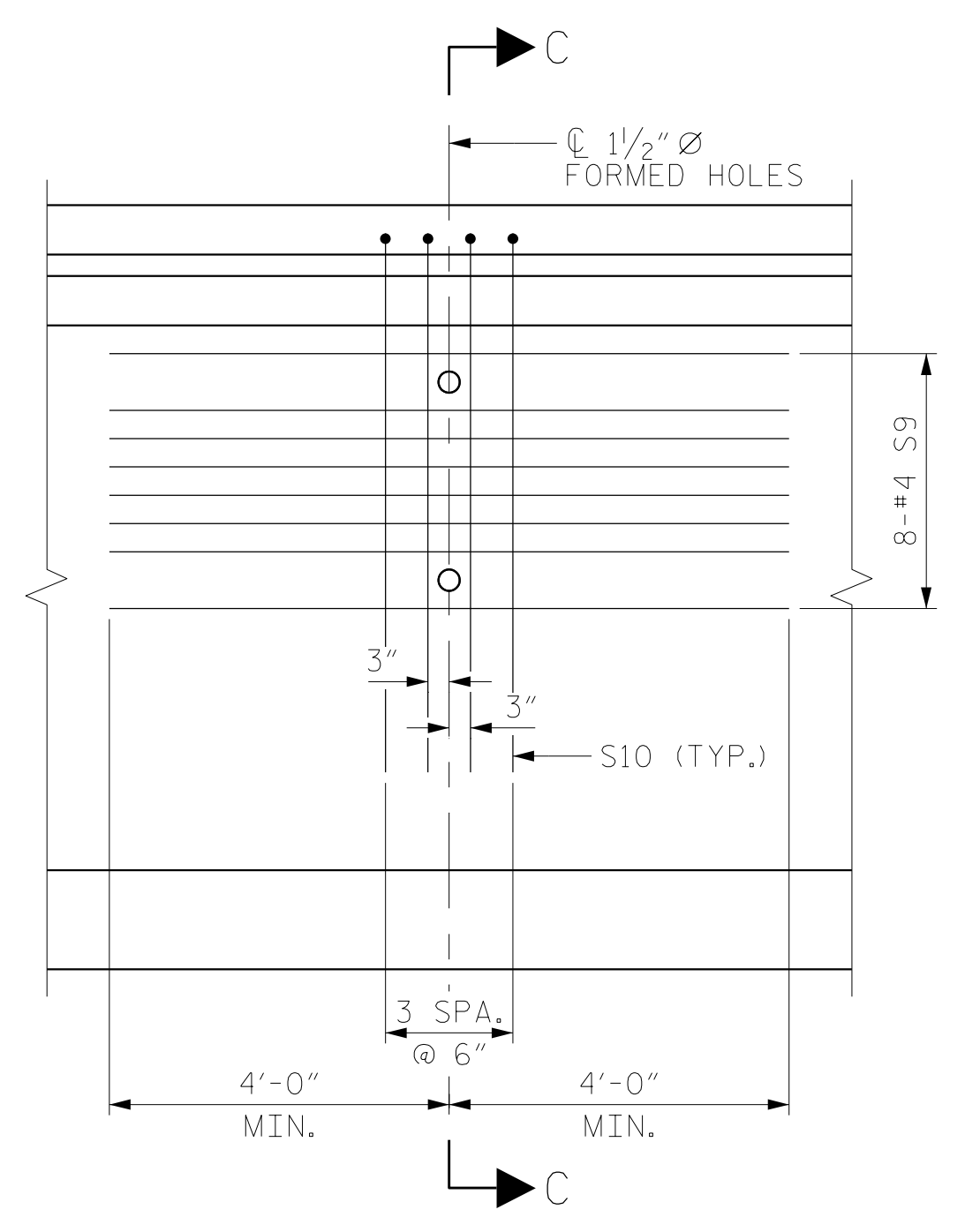
SPAN A PARTIAL ELEVATION



EMBEDDED PLATE "B-1" DETAILS
(2 REQ'D PER GIRDER)

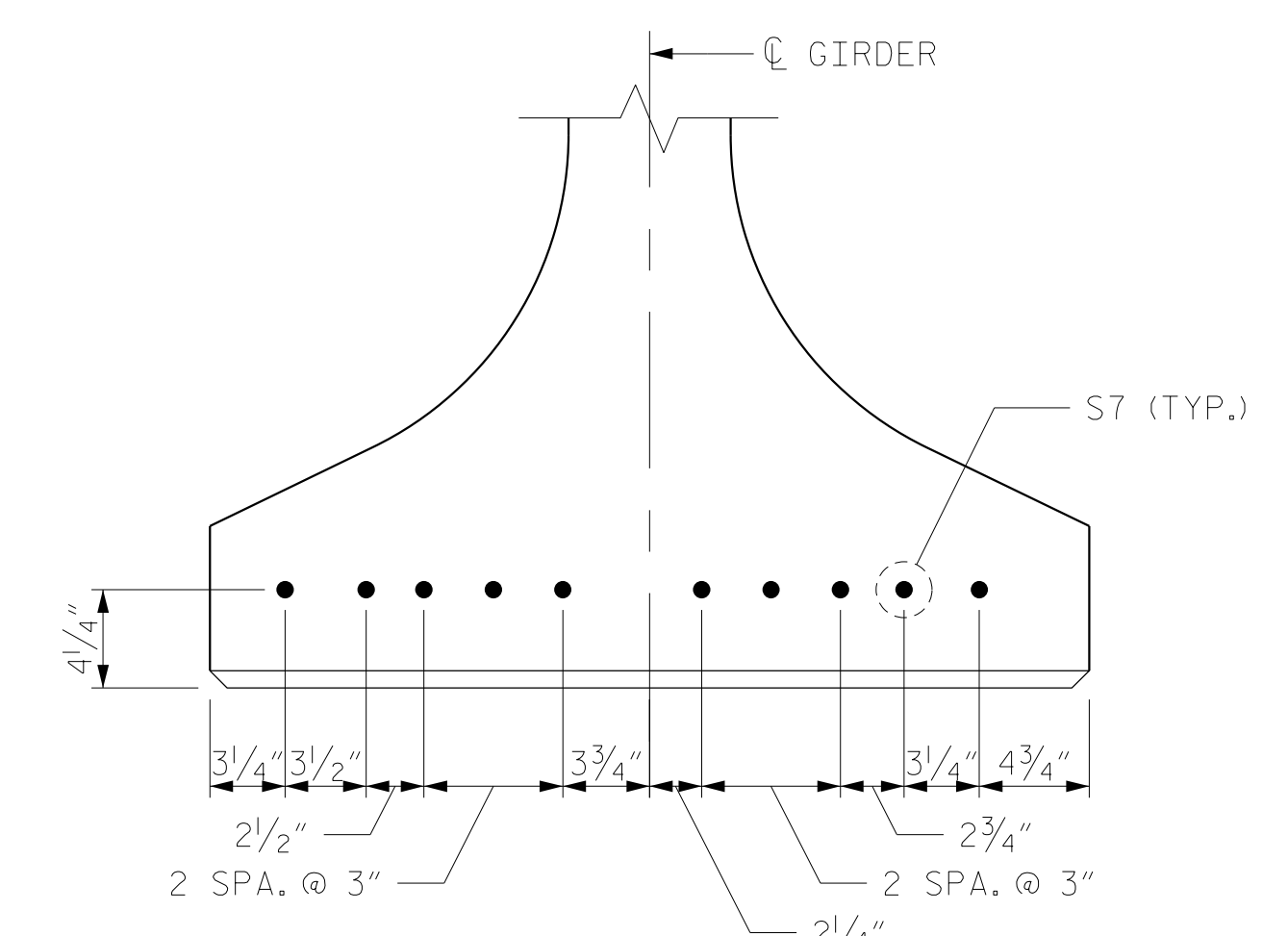


SECTION F-F
(SEE NOTES)



SPAN B PARTIAL ELEVATION

SHOWING INTERMEDIATE DIAPHRAGM REINFORCING FOR ALL GIRDERS



DETAIL "A"

NOTES:

- ALL PRESTRESSING STRANDS SHALL BE 7-WIRE LOW-RELAXATION GRADE 270 AND SHALL CONFORM TO AASHTO M203 EXCEPT FOR SAMPLING REQUIREMENTS WHICH SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
- ALL REINFORCING STEEL SHALL BE GRADE 60.
- APPLY EPOXY PROTECTIVE COATING TO END OF GIRDER SURFACES INDICATED IN ELEVATION VIEW.
- EMBEDDED PLATE "B-1" SHALL BE GALVANIZED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. BEVEL EDGES OF PLATE "B-1" TO GIVE CLOSE FIT BUT NOT TIGHT FIT TO STEEL CASTING FORM.
- ANCHOR STUDS SHALL CONFORM TO AASHTO M169 GRADES 1010 THROUGH 1020 OR APPROVED EQUAL, AND SHALL MEET THE TYPE "B" REQUIREMENTS OF SUBSECTION 7.3 OF THE ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE.
- AT THE END OF GIRDERS TO BE EMBEDDED IN CONCRETE DIAPHRAGMS OR END WALLS, PRESTRESSING STRANDS MAY EXTEND A MAXIMUM OF 2" BEYOND THE GIRDER ENDS. OTHERWISE, PRESTRESSING STRANDS SHALL BE CUT FLUSH WITH THE GIRDER ENDS.
- THE TRANSFER OF LOAD FROM THE ANCHORAGES TO THE GIRDER SHALL BE DONE WHEN CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF NOT LESS THAN 6,500 P.S.I.
- DEPENDING ON THE TYPE OF SYSTEM USED TO SUPPORT THE DECK SLAB FORMS, PRESET ANCHORS MAY BE NECESSARY IN THE PRESTRESSED CONCRETE GIRDER.
- THE TOP SURFACE OF THE GIRDER, EXCLUDING THE OUTSIDE 4", SHALL BE RAKED TO A DEPTH OF 1/4".
- THE COST OF ALL CONCRETE, REINFORCING STEEL, PRESTRESSED STRANDS, INSERTS EMBEDDED IN THE CONCRETE, EMBEDDED PLATES, TEMPORARY BRACING AND INCIDENTAL ITEMS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR PRESTRESSED CONCRETE GIRDERS.
- PRIOR TO CASTING THE GIRDERS, THE CONTRACTOR SHALL SUBMIT COMPLETE WORKING DRAWINGS WITH EXACT LOCATION AND COMPLETE DESCRIPTION OF ALL INSERTS CAST IN THE GIRDERS TO THE DEPARTMENT FOR APPROVAL. SUCH INSERTS INCLUDE BUT ARE NOT LIMITED TO: INSERTS FOR SUPPORTING FALSEWORK AND FORMWORK, INSERTS FOR ATTACHING DIAPHRAGMS, INSERTS FOR CONNECTING TEMPORARY BRACING AND LIFTING INSERTS.
- THE CONTRACTOR HAS THE OPTION TO PROVIDE 2 ADDITIONAL STRANDS AT THE TOP OF THE GIRDER TO FACILITATE TYING OF THE REINFORCING STEEL. THESE STRANDS SHALL BE PULLED TO A LOAD OF 4500 lbs.

PROJECT NO. U-5798A
CUMBERLAND COUNTY
 STATION: 76+80.00 -L-

SHEET 3 OF 3



RS&H Architects-Engineers-Planners, Inc.
 8521 Six Forks Road, Suite 400
 919-926-4100 FAX 919-846-9080
 www.rsandh.com
 North Carolina License Nos. 50737-50403-C&E

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 SUPERSTRUCTURE
 PRESTRESSED CONCRETE
 GIRDER CONTINUOUS
 FOR LIVE LOAD DETAILS
 RIGHT LANE

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S2-13
1			3			TOTAL SHEETS
2			4			43

DRAWN BY : MRA	DATE : 04/2020
CHECKED BY : MKO	DATE : 04/2021
DESIGN ENGINEER OF RECORD: RLB	DATE : 09/2021

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED