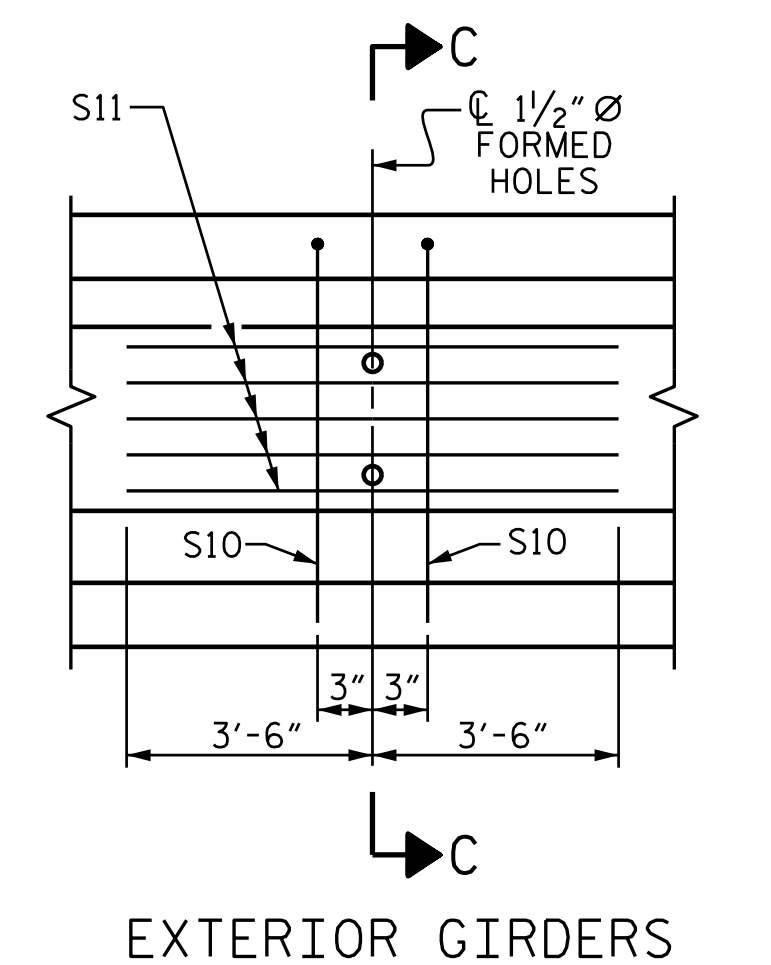
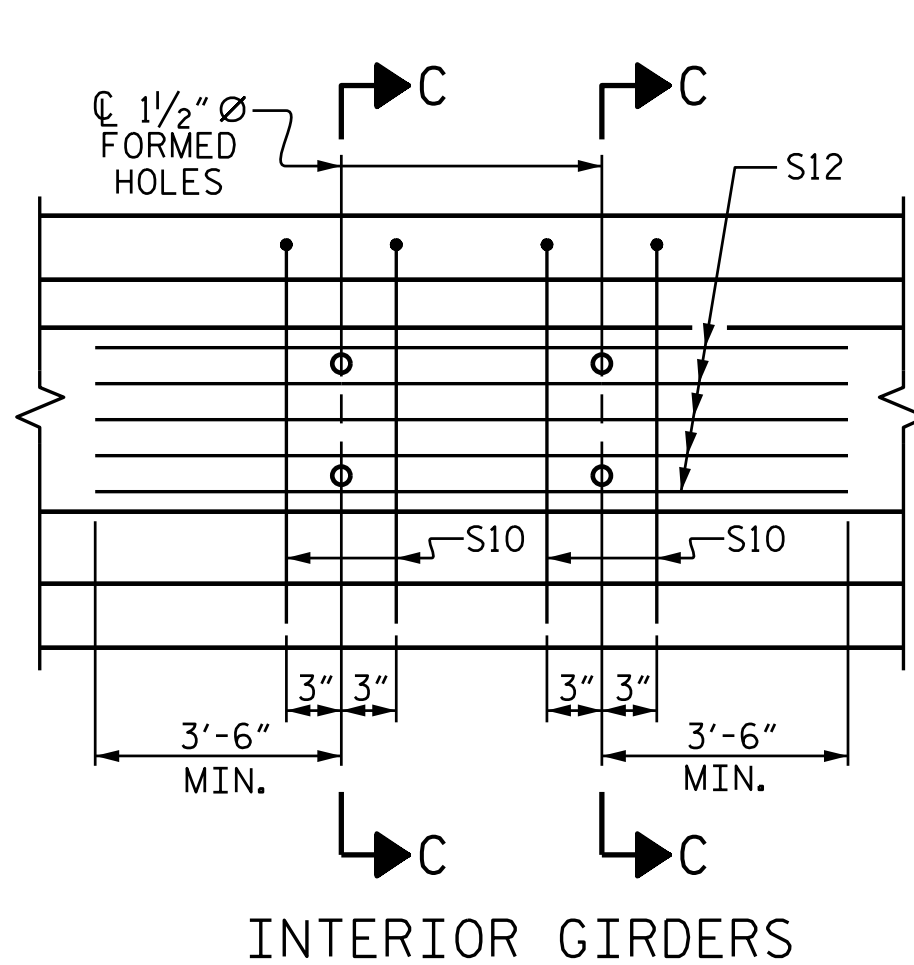
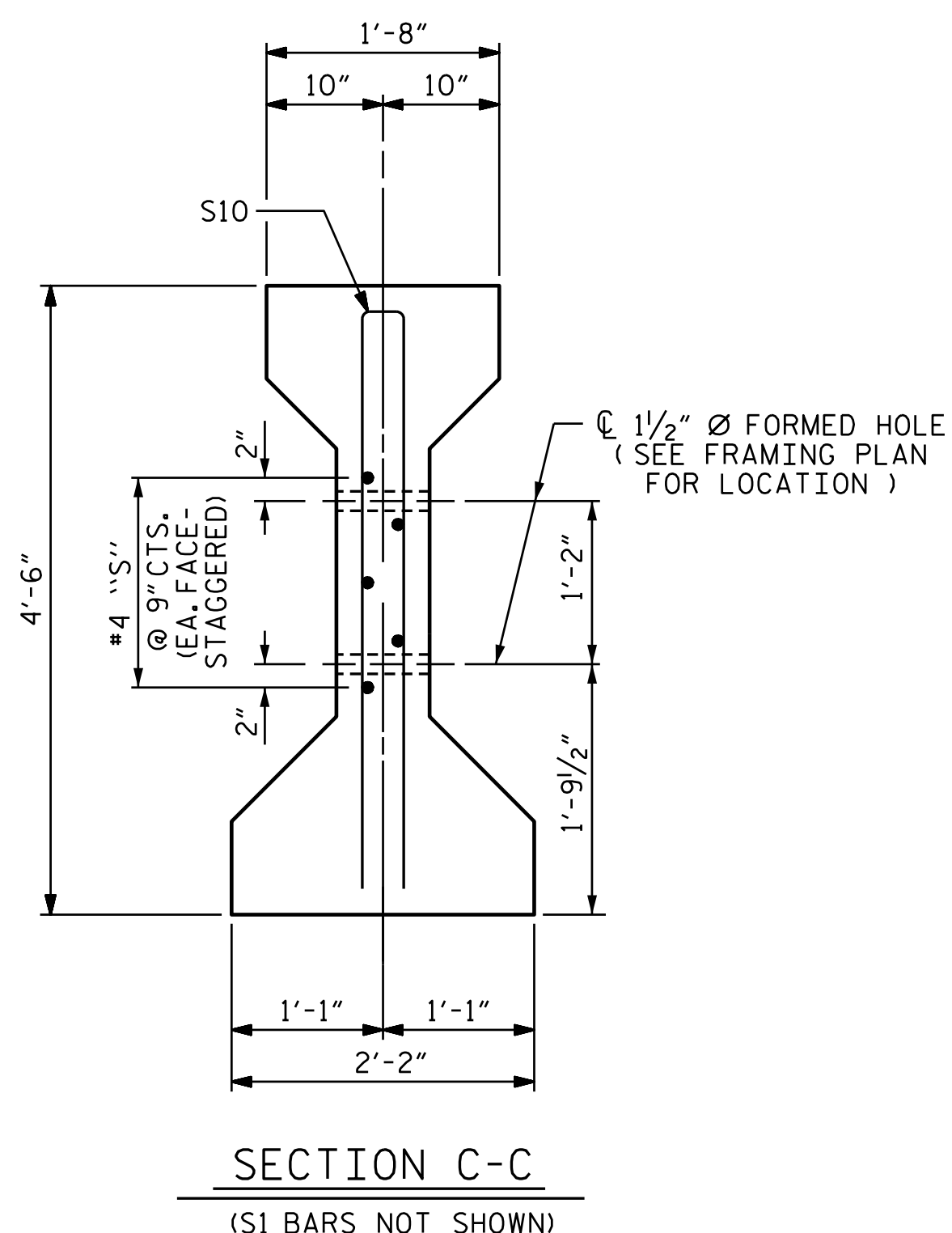


DEAD LOAD DEFLECTION TABLE

0.6" Ø LOW RELAXATION	SPAN A											SPAN B											
	EXTERIOR GIRDERS											EXTERIOR GIRDERS											
TENTH POINTS	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	0	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	0	
CAMBER (GIRDER ALONE IN PLACE)	↑	0.0	0.067	0.126	0.172	0.202	0.212	0.202	0.172	0.126	0.067	0.0	0.0	0.052	0.099	0.135	0.159	0.167	0.159	0.135	0.099	0.052	0.0
* DEFLECTION DUE TO SUPERIMPOSED D.L.	↓	0.0	0.042	0.082	0.114	0.134	0.141	0.134	0.114	0.082	0.042	0.0	0.0	0.030	0.060	0.083	0.098	0.103	0.098	0.083	0.060	0.030	0.0
FINAL CAMBER	↑	0.0	5/16"	1/2"	11/16"	13/16"	7/8"	13/16"	11/16"	1/2"	5/16"	0.0	0.0	1/4"	1/2"	5/8"	3/4"	3/4"	3/4"	5/8"	1/2"	1/4"	0.0
INTERIOR GIRDERS											INTERIOR GIRDERS												
TENTH POINTS	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	0	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	0	
CAMBER (GIRDER ALONE IN PLACE)	↑	0.0	0.067	0.126	0.172	0.202	0.212	0.202	0.172	0.126	0.067	0.0	0.0	0.052	0.099	0.135	0.159	0.167	0.159	0.135	0.099	0.052	0.0
* DEFLECTION DUE TO SUPERIMPOSED D.L.	↓	0.0	0.047	0.093	0.128	0.151	0.159	0.151	0.128	0.093	0.047	0.0	0.0	0.034	0.067	0.093	0.110	0.115	0.110	0.093	0.067	0.034	0.0
FINAL CAMBER	↑	0.0	1/4"	3/8"	1/2"	5/8"	5/8"	5/8"	1/2"	3/8"	1/4"	0.0	0.0	1/4"	3/8"	1/2"	9/16"	5/8"	9/16"	1/2"	3/8"	1/4"	0.0

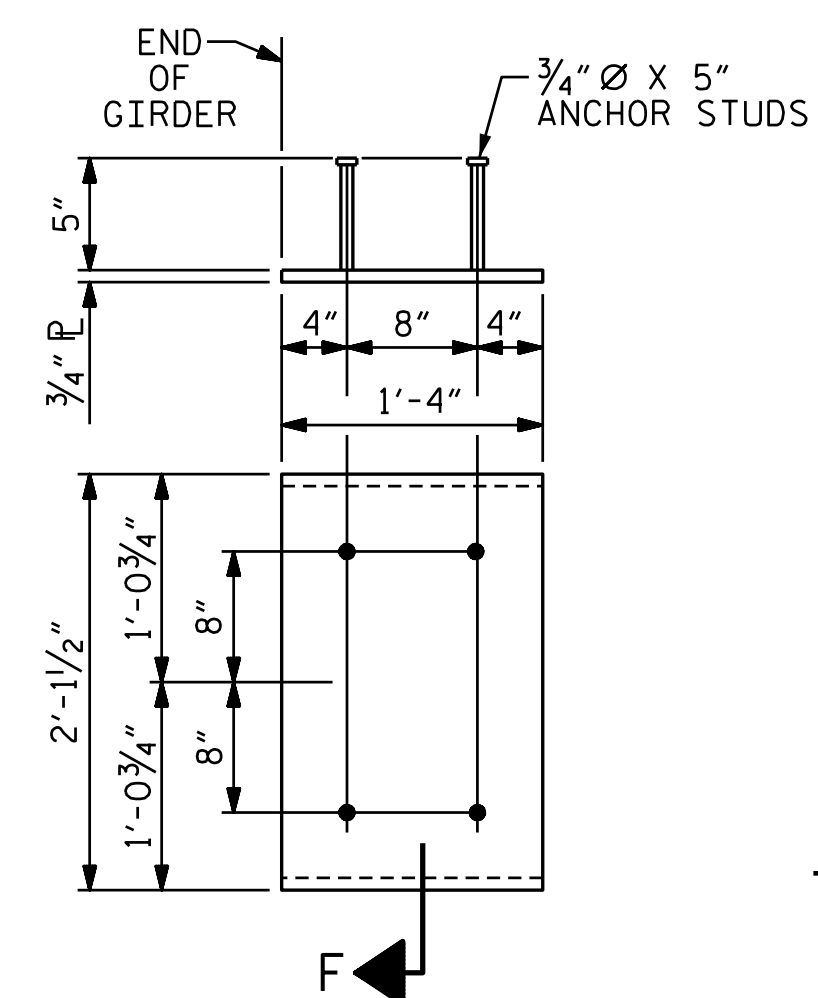
* INCLUDES FUTURE WEARING SURFACE

ALL VALUES ARE SHOWN IN FEET (DECIMAL FORM), EXCEPT "FINAL CAMBER", WHICH IS GIVEN IN INCHES (FRACTION FORM).



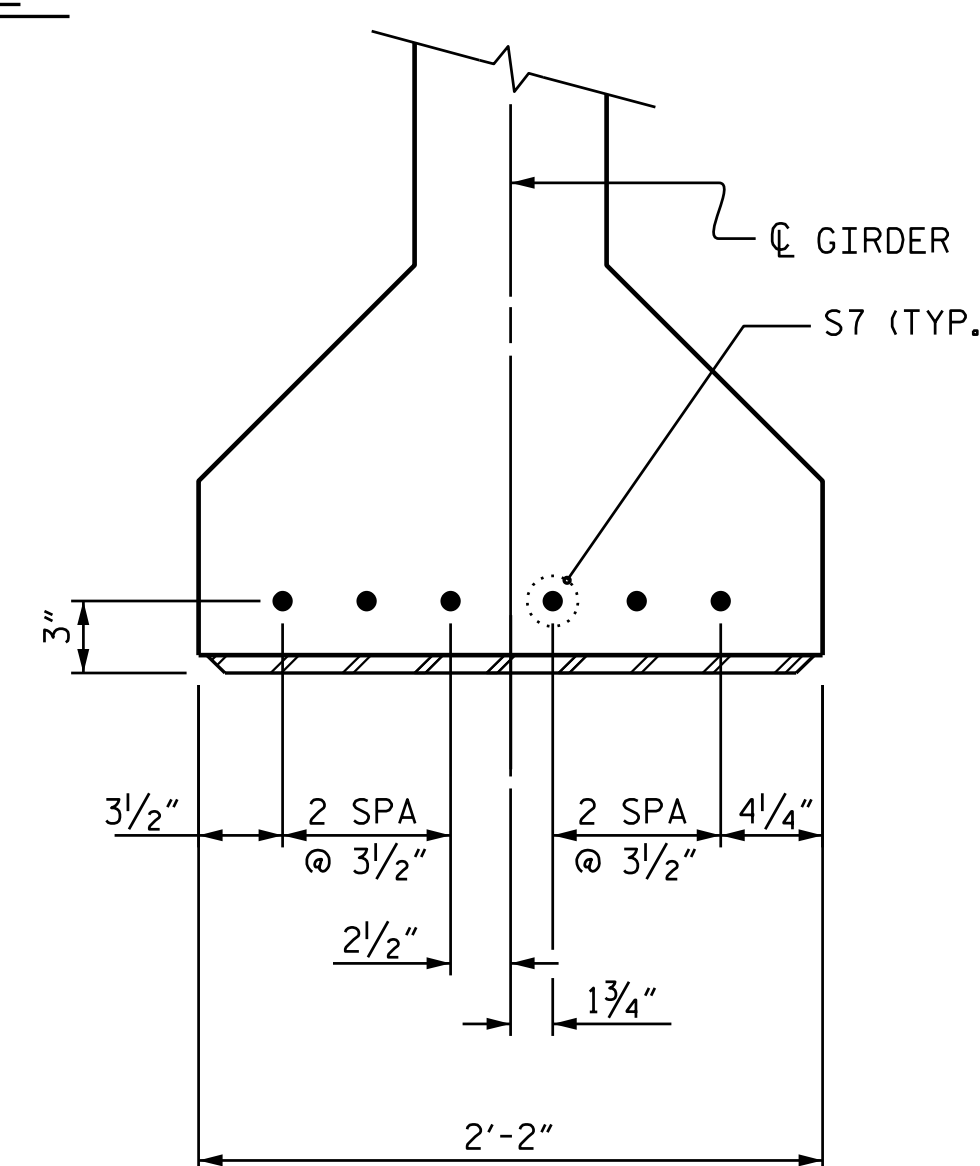
PARTIAL ELEVATION

SHOWING INTERMEDIATE DIAPHRAGM REINFORCING STEEL FOR GIRDERS



EMBEDDED PLATE "B-1" DETAILS

(2 REQ'D PER GIRDER)



DETAIL "A"

(FOR AASHTO TYPE IV GIRDERS)

NOTES

ALL PRESTRESSING STRANDS SHALL BE 7-WIRE LOW-RELAXATION GRADE 270 STRANDS 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.

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 ENDS OF GIRDERS TO BE EMBEDDED IN CONCRETE DIAPHRAGMS, 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 6,400 PSI.

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 CONTRACTOR HAS THE OPTION TO PROVIDE, AT NO ADDITIONAL COST TO THE DEPARTMENT, 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-2525C
GUILFORD COUNTY
 STATION: 22+29.98 -Y5-

SHEET 3 OF 4

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

PRESTRESSED CONCRETE GIRDER
 CONTINUOUS FOR LIVE LOAD
 DETAILS

REVISIONS

NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

SHEET NO.

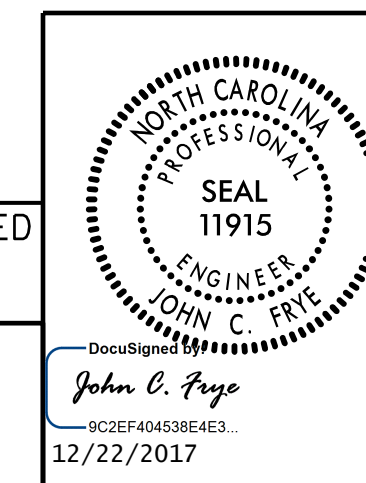
S7-12

TOTAL SHEETS

28

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PLANS PREPARED BY:
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 www.mottmac.com
 LICENSE NO. F-0669



#127077
 12/21/2017
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DRAWN BY: R. H. BRAINARD DATE: 9-2017
 CHECKED BY: J. E. MONDOLFI DATE: 10-2017
 DESIGN ENGINEER OF RECORD: J. E. MONDOLFI DATE: 12-2017