

DEAD LOAD DEFLECTION TABLE FOR GIRDERS

	SPAN A											SPAN B										
	GIRDERS 1 & 5											GIRDERS 1 & 5										
TENTH POINTS	0.0	.10	.20	.30	.40	.50	.60	.70	.80	.90	1.0	0.0	.10	.20	.30	.40	.50	.60	.70	.80	.90	1.0
CAMBER (GIRDER ALONE IN PLACE)	↑	0	0.052	0.098	0.134	0.157	0.165	0.157	0.134	0.098	0.052	0	0.057	0.108	0.148	0.174	0.182	0.174	0.148	0.108	0.057	0
* DEFLECTION DUE TO SUPERIMPOSED D.L.	↓	0	0.025	0.049	0.068	0.080	0.084	0.080	0.068	0.049	0.025	0	0.041	0.080	0.111	0.130	0.137	0.130	0.111	0.080	0.041	0
FINAL CAMBER	↑	0	5/16"	5/8"	13/16"	15/16"	1"	15/16"	13/16"	5/8"	5/16"	0	3/16"	5/16"	7/16"	1/2"	9/16"	1/2"	7/16"	5/16"	3/16"	0
	GIRDERS 2 - 4											GIRDERS 2 - 4										
	TENTH POINTS	0.0	.10	.20	.30	.40	.50	.60	.70	.80	.90	1.0	0.0	.10	.20	.30	.40	.50	.60	.70	.80	.90
CAMBER (GIRDER ALONE IN PLACE)	↑	0	0.052	0.098	0.134	0.157	0.165	0.157	0.134	0.098	0.052	0	0.057	0.108	0.148	0.174	0.182	0.174	0.148	0.108	0.057	0
* DEFLECTION DUE TO SUPERIMPOSED D.L.	↓	0	0.027	0.054	0.075	0.088	0.093	0.088	0.075	0.054	0.027	0	0.045	0.089	0.123	0.144	0.151	0.144	0.123	0.089	0.045	0
FINAL CAMBER	↑	0	5/16"	9/16"	11/16"	13/16"	7/8"	13/16"	11/16"	9/16"	5/16"	0	1/8"	1/4"	5/16"	3/8"	3/8"	3/8"	5/16"	1/4"	1/8"	0

\* INCLUDES FUTURE WEARING SURFACE.  
ALL VALUES ARE SHOWN IN FEET (DECIMAL FORM), EXCEPT "FINAL CAMBER", WHICH IS GIVEN IN INCHES (FRACTION FORM).

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.

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.

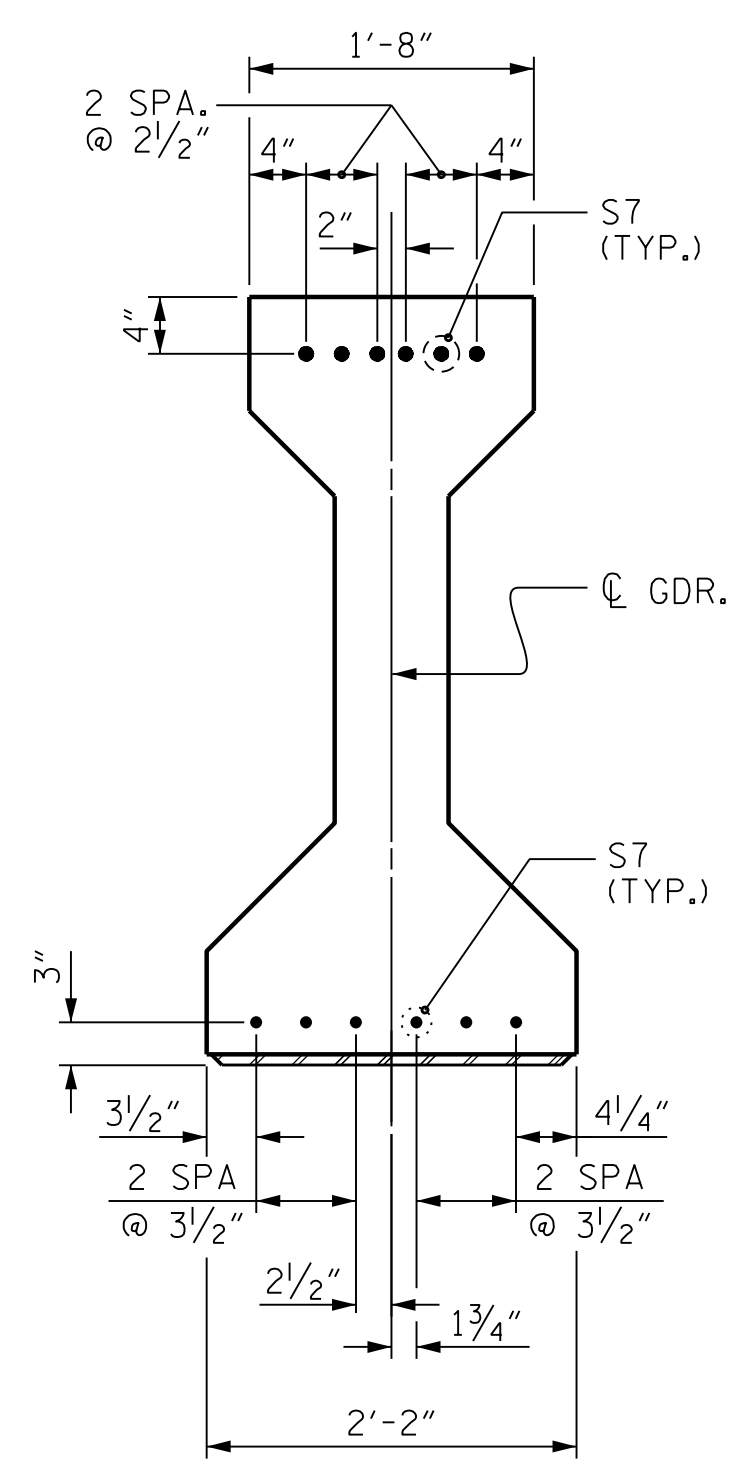
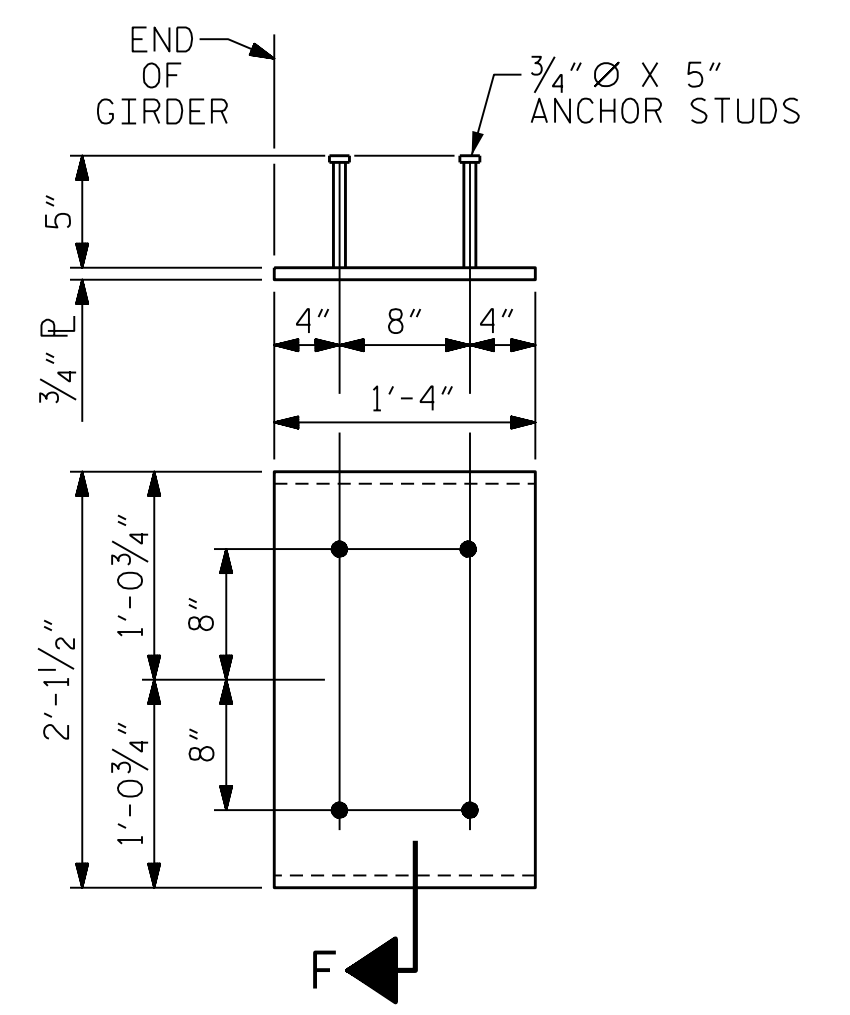
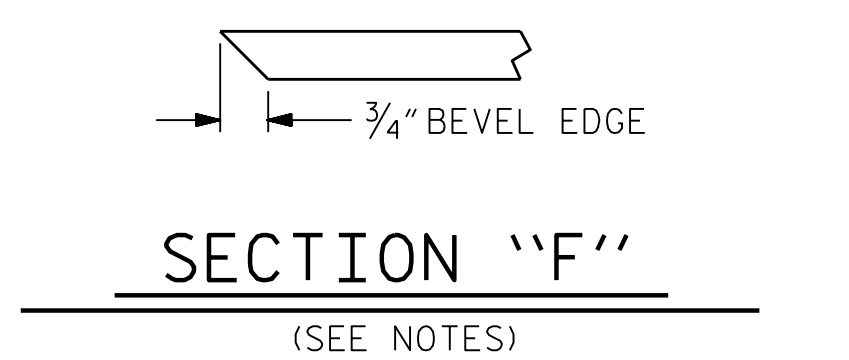
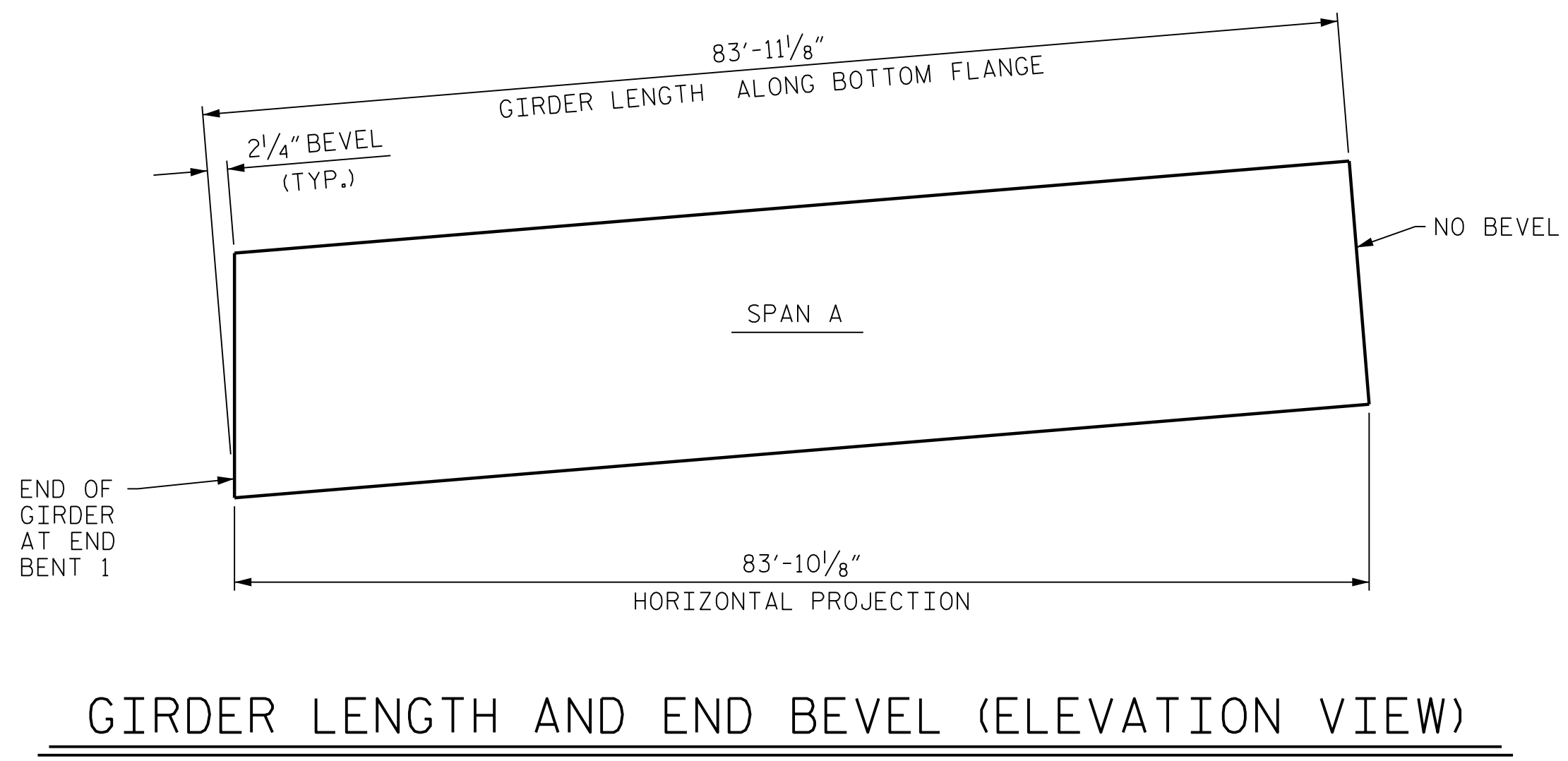
AT ENDS OF GIRDERS TO BE EMBEDDED IN CONCRETE DIAPHRAGMS OR END WALLS, PRESTRESSING STRANDS MAY EXTEND A MAXIMUM OF 2" BEYOND THE GIRDER ENDS. OTHERWISE, PRESTRESSING STRANDS SHALL BE CUT FLUSH WITH THE GIRDER ENDS.

THE TRANSFER OF LOAD FROM THE ANCHORAGES TO THE GIRDER SHALL BE DONE WHEN CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF NOT LESS THAN 6,400 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" AND AREA SHOWN ON GIRDER SHEETS, SHALL BE RAKED TO A DEPTH OF 1/4".

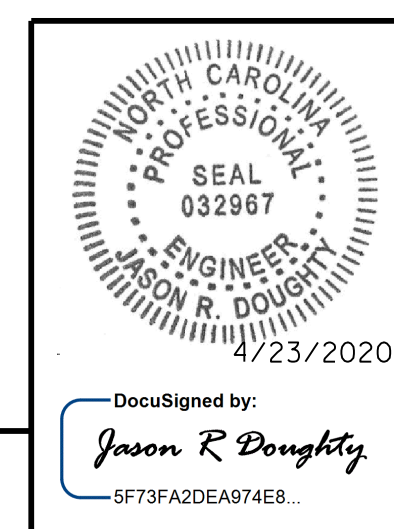
THE CONTRACTOR HAS THE OPTION TO PROVIDE, AT NO ADDITIONAL COST TO THE DEPARTMENT, 2 ADDITIONAL STRANDS AT THE TOP OF THE GIRDER TO FACILITATE TYING OF THE REINFORCING STEEL. THESE STRANDS SHALL BE PULLED TO A LOAD OF 4500 lbs.



PROJECT NO. R-2233BB  
RUTHERFORD COUNTY  
STATION: 20+88.94 -Y19-

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DESIGNED BY: J. BORUTA	DATE: APR 2019	DRAWN BY: K. WHITE	DATE: MAR 2019	CHECKED BY: B. LOFLIN	DATE: JULY 2019	DESIGN ENGINEER OF RECORD: J. DOUGHTY	DATE: NOV 2019	DRAWN BY: ELR 11/91	REV. 1/15	MAA/TMG
		CHECKED BY: GRP 11/91	REV. 2/15	MAA/TMG				REV. 12/17	MAA/THC	



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH

STANDARD  
PRESTRESSED CONCRETE  
GIRDER CONTINUOUS  
FOR LIVE LOAD DETAILS

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S3-14
1			3			TOTAL SHEETS
2			4			34

STR. #3 STD. NO. PCG9

**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**