

GIRDER DIAGRAM FOR D.L. DEFLECTION TABLE

(SEE TABLE FOR GIRDERS)

DEAD LOAD [DEFLE(CTIO	ΝΤΔ	BLE	FOR	GIR	DERS)			
1/2″∅ LOW RELAXATION	GIRDERS 1 AND 10										
TENTH POINTS	0	.1	.2	.3	4	.5	.6	.7	.8	.9	0
CAMBER (GIRDER ALONE IN PLACE)		0.049	0.086	0.111	0.126	0.130	0.126	0.111	0.086	0.049	0.000
* DEFLECTION DUE TO SUPERIMPOSED D.L.		0.020	0.039	0.053	0.062	0.065	0.062	0.053	0.039	0.020	0.000
FINAL CAMBER		5/16	9/16	11/16	3/4	13/16	3/4	11/16	9/16	5/16	0
1/2″∅ LOW RELAXATION	GIRDERS 2 AND 9										
, _	0	.1	.2	.3	4	.1\3	AND 3	7	.8	.9	0
TENTH POINTS CAMBER (GIRDER ALONE IN PLACE)	0.000			0.111	0.126	0.130	0.126	0.111	0.086		
* DEFLECTION DUE TO SUPERIMPOSED D.L.	0.000			0.057	0.067	0.070		0.057	0.042		
FINAL CAMBER		5/16	9/16	5/8	11/16	11/16	11/16	5/8	9/16	5/16	0.000
1/2″∅ LOW RELAXATION		GIRDERS 3 AND 8									
TENTH POINTS	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	0
CAMBER (GIRDER ALONE IN PLACE)	0.000	0.049	0.086	0.111	0.126	0.130	0.126	0.111	0.086	0.049	0.000
* DEFLECTION DUE TO SUPERIMPOSED D.L.		0.023	0.044	0.060	0.070	0.073	0.070	0.060	0.044	0.023	0.000
FINAL CAMBER		5/16	1/2	5/8	11/16	11/16	11/16	5/8	1/2	5/16	0
1/2″∅ LOW RELAXATION		GIRDERS 4 AND 7									
TENTH POINTS	0	.1	.2	.3	4	. 5	.6	.7	.8	.9	0
CAMBER (GIRDER ALONE IN PLACE)		0.049	0.086	0.111	0.126	0.130	0.126	0.111	0.086	0.049	0.000
* DEFLECTION DUE TO SUPERIMPOSED D.L.		0.023	0.044	0.060	0.070	0.073	0.070	0.060	0.044	0.023	0.000
FINAL CAMBER		5/16	1/2	5/8	11/16	11/16	11/16	5/8	1/2	5/16	0
									ı		
1/2″∅ LOW RELAXATION GIRDEF											
TENTH POINTS		.1	.2	.3	.4	.5	.6	.7	.8	.9	0
CAMBER (GIRDER ALONE IN PLACE)		0.049		0.111	0.126	0.130	0.126	0.111	0.086		
* DEFLECTION DUE TO SUPERIMPOSED D.L.		0.019	0.036	0.050			0.058				0.000
FINAL CAMBER	0	3/8	5/8	3/4	13/16	13/16	13/16	3/4	5/8	3/8	0

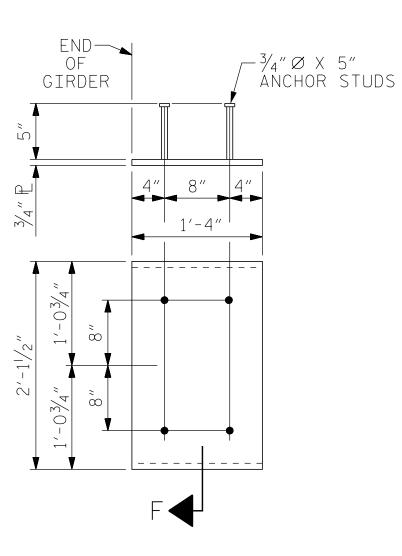
* INCLUDES FUTURE WEARING SURFACE

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

\$\$\$\$\$\$SYSTIME\$\$\$\$

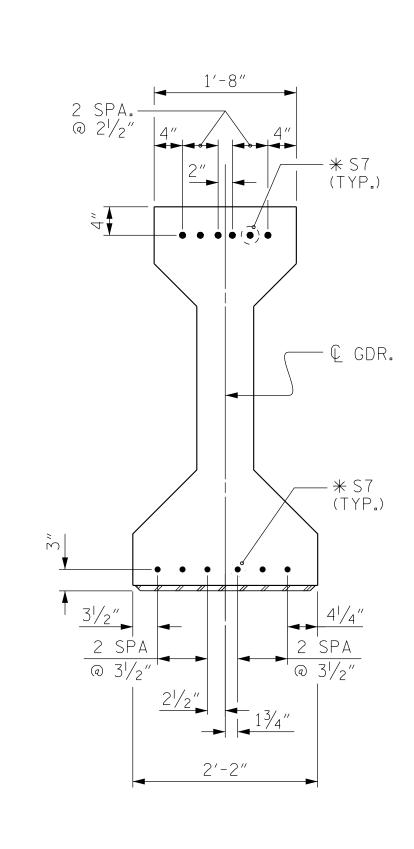
\$\$\$\$USERNAME\$\$\$\$

DATE: 8/15 ASSEMBLED BY : CHECKED BY : CMT DATE: 8/15 MAA/GM MAA/TMG DRAWN BY: ELR 11/91 CHECKED BY: GRP 11/91 MAA/TMG



EMBEDDED PLATE "B-1" DETAILS FOR AASHTO TYPE IV GIRDER AND 63" & 72" MODIFIED BULB TEES

(2 REQ'D PER GIRDER)



DETAIL "A" (FOR AASHTO TYPE IV GIRDERS) 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.

NOTES

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.

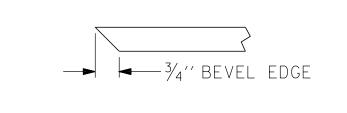
AT ENDS OF GIRDERS TO BE EMBEDDED IN CONCRETE DIAPHRAGMS OR END WALLS, PRESTRESSING STRANDS MAY EXTEND A MAXIMUM OF 2" BEYOND THE GIRDER ENDS. OTHERWISE, PRESTRESSING STRANDS SHALL BE CUT FLUSH WITH THE GIRDER ENDS.

THE TRANSFER OF LOAD FROM THE ANCHORAGES TO THE GIRDER SHALL BE DONE WHEN CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF NOT LESS THAN 4,800 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.



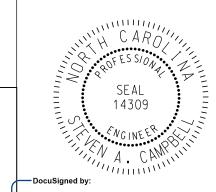
(SEE NOTES)

PROJECT NO. R-5605 TRANSYLVANIA COUNTY STATION: 50+83.00 -L-

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

STANDARD

PRESTRESSED CONCRETE GIRDER CONTINUOUS FOR LIVE LOAD DETAILS



Mattern & Craig

	14309	
attern & Craig	= C ENGINEER	
SULTING ENGINEERS • SURVEYORS	A CAMPULL	Ν
FIRM LICENSE No. C-1154 12 BROAD STREET	DocuSigned by:	-
ASHEVILLE, NORTH CAROLINA 28801 (828) 254-2201 - FAX (828) 254-4562	Steven A. Campbell 12/21/2015	2
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	SHEET NO					
NO.	BY:	DATE:	NO.	BY:	DATE:	S-33
1			33			TOTAL SHEETS
2			4			51

STD. NO. PCG9 (Sht. 3a)