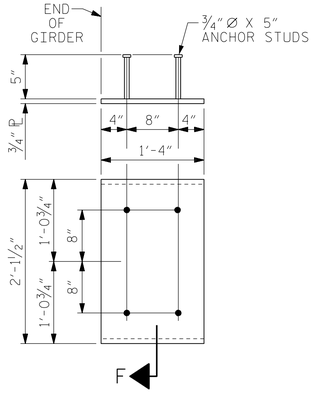
DEAD LOAD DEFLECTION TABLE FOR GIRDERS - SPANS A & B

	GIRDERS 1 AND 5																																									
FORTIETH POINTS	0	.025	.05	.075	.10	.125	.15	.175	.20	.225	.25	.275	.30	.325	.35	.375	.40	.425	.45	.475	.50	.525	.55	.575	.60	.625	.65	.675	.70	.725	.75	.775	.80	.825	.85	.875	.90	.925	.95	.975	1.00
CAMBER (GIRDER ALONE IN PLACE) ↑	0.00	0.089	0.131	0.169	0.203	0.231	0.254	0.271	0.281	0.284	0.281	0.271	0.254	0.231	0.203	0.169	0.131	0.131	0.089	0.045	0.045	0.089	0.131	0.169	0.203	0.231	0.254	0.271	0.281	0.338	0.281	0.271	0.254	0.231	0.203	0.169	0.131	0.131	0.089	0.045	0.00
✳DEFLECTION DUE TO SUPER IMPOSED D.L. ↓	0.00	.013	0.026	0.039	0.052	0.064	0.076	0.089	0.101	0.111	0.121	0.130	0.140	0.130	0.140	0.159	0.165	0.167	0.174	0.171	0.174	0.171	0.169	0.167	0.165	0.159	0.153	0.147	0.141	0.147	0.131	0.121	0.102	0.112	0.090	0.077	0.052	0.065	0.039	0.026	0.00
FINAL CAMBER ↑	0	1/8"	1/4"	5/16"	7/16"	9/16"	5/8"	3/4"	13/16"	7/8"	15/16"	1"	1 1/16"	1 5/16"	1 9/16"	1 3/8"	1 1/4"	1 5/16"	1 1/4"	1 5/16"	1 5/16"	1 5/16"	1 5/16"	1 5/16"	1 1/4"	1 1/4"	1 3/16"	1 3/16"	1 1/16"	1 1/8"	1"	15/16"	13/16"	7/8"	11/16"	5/8"	7/16"	9/16"	5/16"	1/4"	0

	GIRDERS 2 THRU 4																																									
FORTIETH POINTS	0	.025	.05	.075	.10	.125	.15	.175	.20	.225	.25	.275	.30	.325	.35	.375	.40	.425	.45	.475	.50	.525	.55	.575	.60	.625	.65	.675	.70	.725	.75	.775	.80	.825	.85	.875	.90	.925	.95	.975	1.00
CAMBER (GIRDER ALONE IN PLACE) ↑	0.00	0.076	0.111	0.143	0.172	0.196	0.215	0.229	0.238	0.241	0.238	0.229	0.215	0.196	0.172	0.143	0.111	0.131	0.076	0.038	0.038	0.076	0.111	0.143	0.172	0.196	0.215	0.229	0.238	0.241	0.238	0.229	0.215	0.196	0.172	0.143	0.111	0.131	0.076	0.038	0.00
✳DEFLECTION DUE TO SUPER IMPOSED D.L. ↓	0.00	0.014	0.027	0.041	0.054	0.067	0.080	0.093	0.106	0.116	0.126	0.137	0.147	0.153	0.160	0.166	0.173	0.175	0.177	0.179	0.182	0.179	0.177	0.175	0.173	0.166	0.160	0.154	0.147	0.137	0.127	0.117	0.106	0.094	0.081	0.068	0.055	0.041	0.027	0.014	0.00
FINAL CAMBER ↑	0	1/8"	3/16"	5/16"	7/16"	1/2"	9/16"	11/16"	3/4"	13/16"	7/8"	15/16"	1"	1 1/16"	1 5/16"	1 1/4"	1 3/16"	1 3/8"	1 1/2"	1 11/16"	1 7/8"	1 11/16"	1 1/2"	1 3/8"	1 3/16"	1 1/8"	1 1/16"	1 1/16"	1"	15/16"	7/8"	13/16"	3/4"	11/16"	9/16"	1/2"	7/16"	5/16"	3/16"	1/8"	0

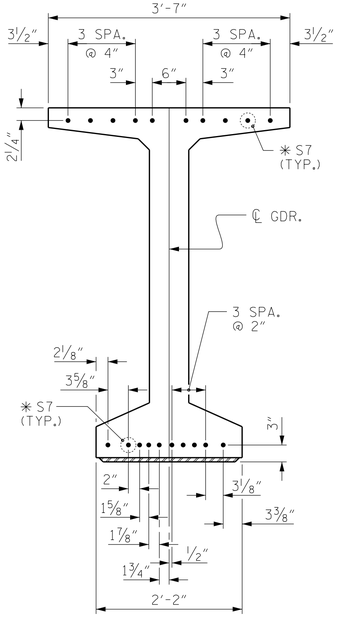


EMBEDDED PLATE "B-1" DETAILS FOR 63" MODIFIED BULB TEES

(2 REQ'D PER GIRDER)

SECTION "F"

(SEE NOTES)



DETAIL "C"

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 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 7000 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".

WHEN DRAPED STRANDS ARE DETAILED, THE LONGITUDINAL LOCATION OF THE HOLD DOWN DEVICES SHALL BE WITHIN 6" OF THE LOCATION SHOWN AND THE CENTER OF GRAVITY OF THE GROUP OF DRAPED STRANDS SHALL BE LOCATED WITHIN 1/2" OF THE THEORETICAL LOCATION SHOWN.

A 2" x 2" CHAMFER IS ALLOWED AT THE INTERSECTION OF THE WEB AND THE BOTTOM FLANGE OF THE 63" AND 72" MODIFIED BULB TEES ONLY.

PROJECT NO. R-5737

DAVIDSON COUNTY

STATION: 61+02.86 -L-

SHEET 3 OF 3

DRAWN BY : JAE DATE : 8/21

CHECKED BY : ZHB DATE : 8/21

DESIGN ENGINEER OF RECORD: MTP DATE : 8/21

$$$$$$SYSTIME$$$$$

$$$$$$$$$$$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$$$$$$$$

$$$$USERNAME$$$$

Dewberry
2610 WYCLIFF ROAD
SUITE 410
RALEIGH, NC 27607
PHONE: 919.881.9939
NC COA No. F-0929

NORTH CAROLINA PROFESSIONAL SEAL 030046 ENGINEER MATTHEW PAYNE

DocuSigned by: Matthew Payne E7C3056295FF484... 9/14/2021

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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:	S1-13
1			3			TOTAL SHEETS
2			4			25