

## DETAIL ``C"

(FOR 72" MODIFIED BULB TEES)

DEAD LOAD DEFLECTION TABLE FOR GIRDERS - SPANS A & B																					
0.6″Ø LOW RELAXATION		GIRDERS 1 & 4																			
FORTIETH POINTS	0	.025	.05	.075	.1	.125	<b>.</b> 15	.175	.2	.225	.25	.275	.3	.325	.35	.375	.4	.425	.45	.475	.50
CAMBER (GIRDER ALONE IN PLACE) 🕴	0.0	0.019	0.037	0.055	0.073	0.090	0.106	0.122	0.136	0.152	0.165	0.177	0.188	0.198	0.207	0.214	0.220	0.225	0.229	0.231	0.231
* DEFLECTION DUE TO SUPERIMPOSED D.L.↓	0.0	0.010	0.021	0.031	0.041	0.051	0.061	0.071	0.081	0.089	0.097	0.104	0.112	0.117	0.122	0.127	0.132	0.134	0.135	0.137	0.139
FINAL CAMBER	0.0	1/8″	3/16″	5/16″	3/8″	7/16″	9/16″	5⁄8″	11/16″	3⁄4″	13/16″	7⁄8″	15/16″	1″	1″	1 <sup>1</sup> / <sub>16</sub> ″	11/16″	11/8″	11/8″	11/8″	11/8"
0.6″ØLOW RELAXATION	GIRDERS 1 & 4																				
FORTIETH POINTS	.50	.525	.55	.575	.6	.625	.65	.675	.7	.725	.75	.775	.8	.825	.85	.875	.9	.925	.95	.975	1.0
CAMBER (GIRDER ALONE IN PLACE) 🕴	0.231	0.231	0.229	0.224	0.220	0.214	0.207	0.198	0.188	0.177	0.165	0.152	0.137	0.122	0.106	0.090	0.073	0.055	0.037	0.019	0.0
* DEFLECTION DUE TO SUPERIMPOSED D.L.↓	0.139	0.137	0.135	0.134	0.132	0.127	0.122	0.117	0.112	0.104	0.097	0.089	0.081	0.071	0.061	0.051	0.041	0.031	0.021	0.010	0.0
FINAL CAMBER	1 <sup>1</sup> /8″	11/8″	11/8″	1 <sup>1</sup> / <sub>16</sub> ″	11/16″	1 <sup> </sup> / <sub>16</sub> ″	1″	1″	<sup>15</sup> /16″	7⁄8″	13/16″	3⁄4″	11/16″	<sup>5</sup> ⁄8″	9/16″	7/16″	3⁄8″	5/16″	3/16″	1/8″	0.0
0.6″ØLOW RELAXATION	GIRDERS 2 & 3																				
FORTIETH POINTS	0	.025	.05	.075	.1	.125	.15	.175	.2	.225	.25	.275	.3	.325	.35	.375	.4	.425	.45	.475	.50
CAMBER (GIRDER ALONE IN PLACE) 🕴	0.0	0.019	0.037	0.055	0.073	0.090	0.106	0.122	0.136	0.152	0.165	0.177	0.188	0.198	0.207	0.214	0.220	0.225	0.229	0.231	0.231
* DEFLECTION DUE TO SUPERIMPOSED D.L.♥	0.0	0.011	0.022	0.033	0.044	0.055	0.065	0.076	0.086	0.095	0.103	0.111	0.120	0.125	0.130	0.136	0.141	0.143	0.144	0.146	0.148
FINAL CAMBER	0.0	<sup> </sup> /8″	3/16″	<sup> </sup> /4″	3/8″	7/16″	1/2″	9/16″	5⁄8″	11/16″	<sup>3</sup> ⁄4″	13/16″	13/16″	7⁄8″	<sup>15</sup> /16″	<sup>15</sup> /16″	<sup>15</sup> /16″	1″	1″	1″	1″
0.6″Ø LOW RELAXATION	GIRDERS 2 & 3																				
FORTIETH POINTS	.50	.525	<b>.</b> 55	.575	.6	.625	.65	.675	.7	.725	<b>.</b> 75	.775	.8	.825	.85	.875	.9	.925	.95	.975	1.0
CAMBER (GIRDER ALONE IN PLACE)	0.231	0.231	0.229	0.224	0.220	0.214	0.207	0.198	0.188	0.177	0.165	0.152	0.137	0.122	0.106	0.090	0.073	0.055	0.037	0.019	0.0
★ DEFLECTION DUE TO SUPERIMPOSED D.L.↓	0.148	0.146	0.144	0.143	0.141	0.136	0.130	0.125	0.120	0.111	0.103	0.095	0.086	0.076	0.065	0.055	0.044	0.033	0.022	0.011	0.0
FINAL CAMBER	1"	1″	1″	1″	15/16″	15/16″	15/16″	7⁄8″	13/16″	13/16″	3⁄4″	"/16″	5⁄8″	9/16″	1/2"	7/16″	3⁄8″	1/4″	3/16″	1/8″	0.0
* INCLUDES FUTURE WEARING SURFACE.																					

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

DRAWN BY :		W.B.	.ALLEN	DATE	0	4/20
CHECKED BY :		G.F.	WILSON	DATE	8	6/21
DESIGN ENGINEER	OF F	RECORD:_	G.F.WILSON	DATE		10/21

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## EMBEDDED PLATE ``B-1'' DETAILS FOR 72" MODIFIED BULB TEES

(2 REQ'D PER GIRDER)

ALL PRESTRE Shall Confo In Accordat ALL REINFOF

APPLY EPOXY Elevation V

EMBEDDED PL SPECIFICATI

ANCHOR STUD Equal, and s ansi/aashto

AT ENDS OF PRESTRESSIN OTHERWISE,F

THE TRANSFE CONCRETE HA

DEPENDING O ANCHORS MAY

THE TOP SUF DEPTH OF <sup>I</sup>/4

A 2″× 2″CHA Flange of t

THE CONTRAC DEPARTMENT, TYING OF TH OF 4500 Ibs.



NOTES
ESSING STRANDS SHALL BE 7-WIRE LOW-RELAXATION GRADE 270 STRANDS AND ORM TO AASHTO M203 EXCEPT FOR SAMPLING REQUIREMENTS WHICH SHALL BE NCE WITH THE STANDARD SPECIFICATIONS.
RCING STEEL SHALL BE GRADE 60.
Y PROTECTIVE COATING TO END OF GIRDER SURFACES INDICATED IN VIEW.
LATE ``B-1'' SHALL BE GALVANIZED IN ACCORDANCE WITH THE STANDARD IONS.
DS SHALL CONFORM TO AASHTO M169 GRADES 1010 THROUGH 1020 OR APPROVED SHALL MEET THE TYPE ``B'' REQUIREMENTS OF SUBSECTION 7.3 OF THE O/AWS D1.5 BRIDGE WELDING CODE.
GIRDERS TO BE EMBEDDED IN CONCRETE DIAPHRAGMS OR END WALLS, NG STRANDS MAY EXTEND A MAXIMUM OF 2″BEYOND THE GIRDER ENDS. PRESTRESSING STRANDS SHALL BE CUT FLUSH WITH THE GIRDER ENDS.
ER OF LOAD FROM THE ANCHORAGES TO THE GIRDER SHALL BE DONE WHEN AS REACHED A COMPRESSIVE STRENGTH OF NOT LESS THAN 6000 PSI.
ON THE TYPE OF SYSTEM USED TO SUPPORT THE DECK SLAB FORMS,PRESET Y BE NECESSARY IN THE PRESTRESSED CONCRETE GIRDER.
RFACE OF THE GIRDER,EXCLUDING THE OUTSIDE 4",SHALL BE RAKED TO A 4",EXCEPT AS NOTED IN THE LINK SLAB AREAS.
AMFER IS ALLOWED AT THE INTERSECTION OF THE WEB AND THE BOTTOM THE 72″MODIFIED BULB TEES ONLY.
CTOR HAS THE OPTION TO PROVIDE,AT NO ADDITIONAL COST TO THE ,2 ADDITIONAL STRANDS AT THE TOP OF THE GIRDER TO FACILITATE HE REINFORCING STEEL. THESE STRANDS SHALL BE PULLED TO A LOAD S.

	- ¾″ BEVEL	EDGE

SECTION ``F'' (SEE NOTES)

	PROJECT NO. R-5820 COLUMBUS COUNTY							
PLANS PREPARED BY:	STATIONA 38+26.89 -Y1- POT							
N V 5	SHEET 2 OF 3							
NV5 ENGINEERS & CONSULTANTS, INC. 3300 REGENCY PARKWAY, SUITE 100 CARY, NC 27518 2: 919.851.1912 www.NV5.com AC License # F-1333 ormerly CALYX Engineers & Consultants	STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH							
	SUPERSTRUCTURE							
Docusigned by: Guandatan Wilson	PRESTRESSED CONCRETE GIRDER DETAILS							
EBOCBORAD43B4CG.	REVISIONS SHEET NO.							
INAL 4/12/2022	1 3 TOTAL SHEETS   2 4 31							