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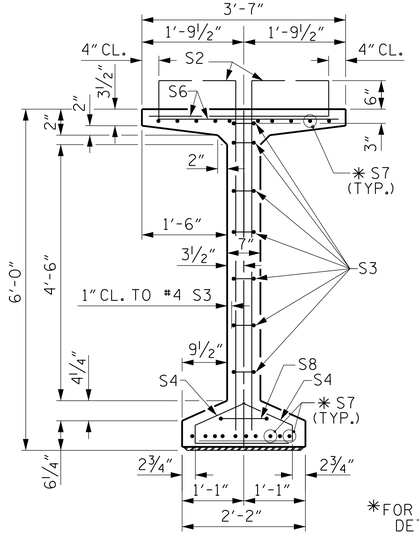
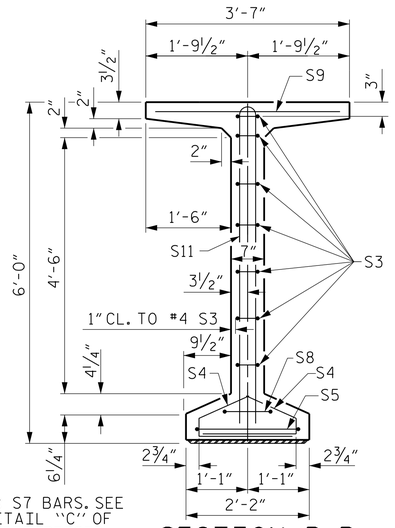
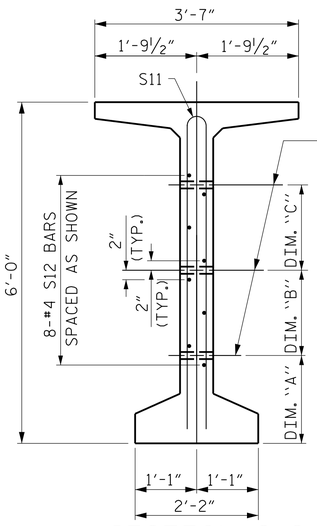


SECTION A-A



✱FOR S7 BARS. SEE DETAIL "C" OF PRESTRESSED CONCRETE GIRDER DETAILS SHEET

SECTION B-B

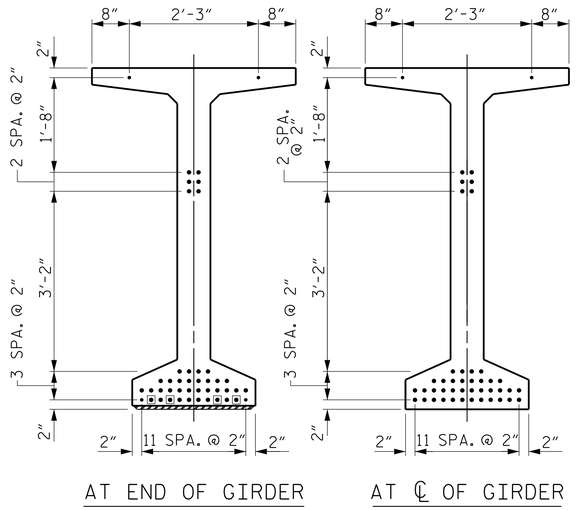


SECTION C-C

(S1, S6 AND S9 BARS NOT SHOWN)

DEBONDING LEGEND

- ● FULLY BONDED STRANDS
- ⊡ STRANDS DEBONDED FOR 4'-0" FROM END OF GIRDER



✱

0.6"Ø LOW RELAXATION STRAND LAYOUT

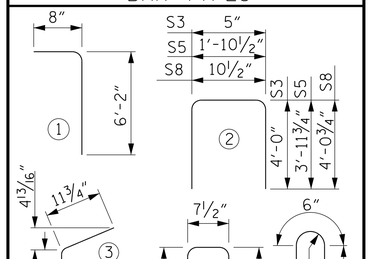
0.6" Ø L.R. GRADE 270 STRANDS		
AREA (SQUARE INCHES)	ULTIMATE STRENGTH (LBS. PER STRAND)	APPLIED PRESTRESS (LBS. PER STRAND)
0.217	58,600	43,950

REINFORCING STEEL FOR ONE GDR

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	202	#5	1	6'-10"	1440
S2	12	#5	1	6'-10"	86
S3	14	#4	2	8'-5"	79
S4	84	#4	3	3'-0"	168
S5	1	#5	2	9'-10"	10
S6	214	#5	4	4'-4"	967
S7	20	#5	STR	3'-8"	77
S8	2	#5	2	9'-0"	19
S9	114	#5	STR	3'-3"	386
S10	1	#3	STR	1'-10"	1
S11	21	#5	5	11'-6"	252
S12	16	#4	STR	8'-0"	86

✱NOTE: S7 BARS SHALL BE BENT BEFORE SHIPMENT. HEAT BENDING SHALL NOT BE ALLOWED.

BAR TYPES



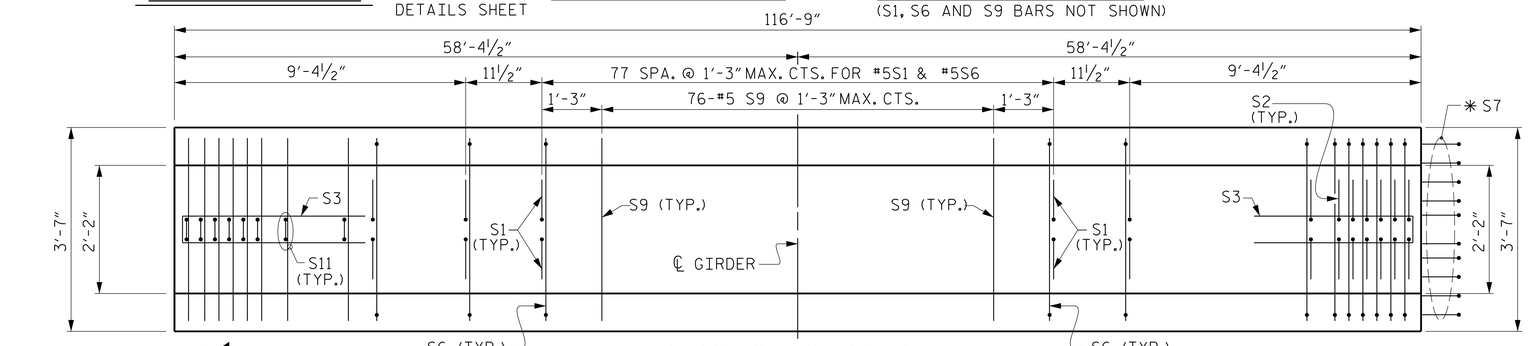
ALL BAR DIMENSIONS ARE OUT-TO-OUT

QUANTITIES FOR ONE GIRDER

GIRDERS	REINFORCING STEEL	9000 PSI CONCRETE	0.6"Ø L.R. STRANDS
	LB.	C.Y.	No.
	3571	25.0	44

GIRDERS REQUIRED

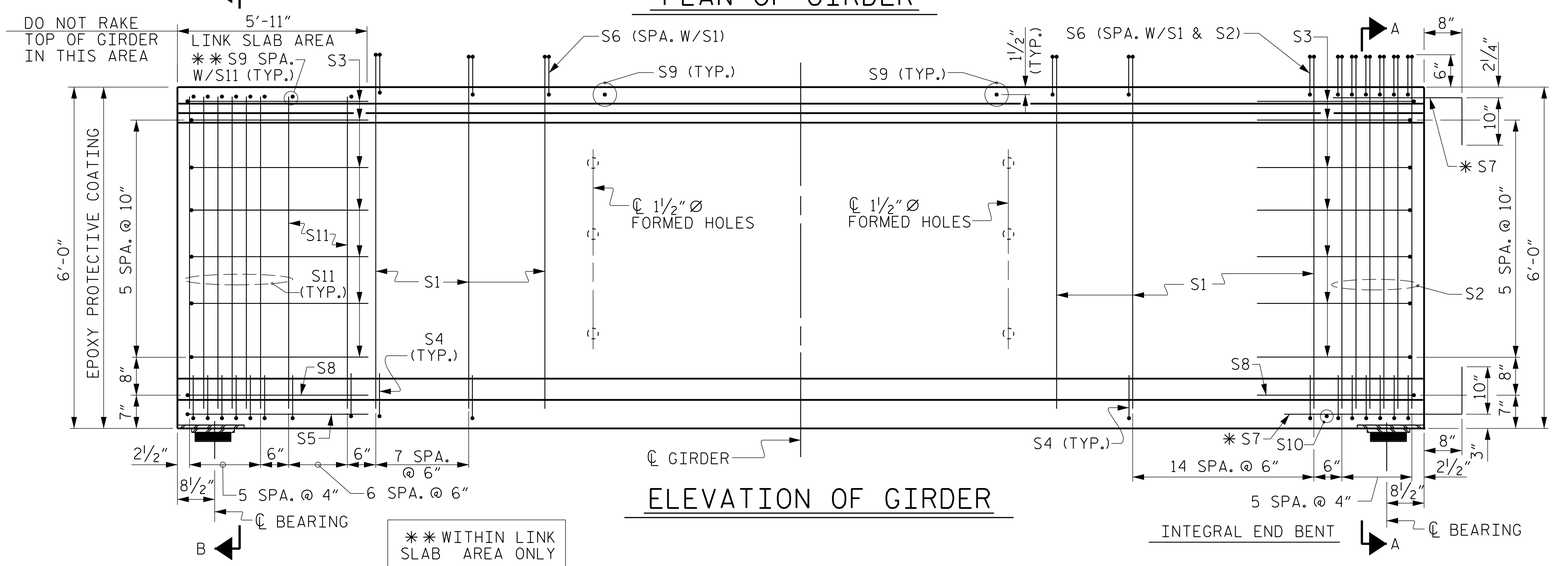
NUMBER	LENGTH	TOTAL LENGTH
4	116'-9"	467'-0"



PLAN OF GIRDER

PARTIAL ELEVATION

SHOWING INTERMEDIATE STEEL DIAPHRAGM REINFORCING STEEL FOR GIRDER Nos. 1-4 (FOR ALL EXTERIOR GIRDERS AND INTERIOR GIRDERS WITH 70° ≤ SKEW ≤ 110°)



ELEVATION OF GIRDER

✱✱WITHIN LINK SLAB AREA ONLY

FIX. (LINK SLAB)

PLANS PREPARED BY:

NV5 ENGINEERS & CONSULTANTS, INC.
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CARY, NC 27518
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NC License # F-1333
formerly CALYX Engineers & Consultants

THIS STANDARD DRAWING REVIEWED & ADOPTED FOR USE AT THE REFERENCED LOCATION BY THE UNDERSIGNED:

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL MATTHEW DAVID METZGER

Digitally signed by: Matthew D. Metzger
Date: 2022.04.12 08:47:29 -04'00'

4/12/2022

PROJECT NO. R-5819

COLUMBUS COUNTY

STATION: 40+06.72 -Y2- POT

SHEET 3 OF 6

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

STANDARD

72" PRESTRESSED CONCRETE MODIFIED BULB TEE LINK SLAB - SPAN C

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S1-16
1			3			TOTAL SHEETS
2			4			38

ASSEMBLED BY :	W. B. ALLEN	DATE :	11/21
CHECKED BY :	M. D. METZGER	DATE :	1/22
DRAWN BY :	BNB 9/21		
CHECKED BY :	AAI 9/21		

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

4/12/2022

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