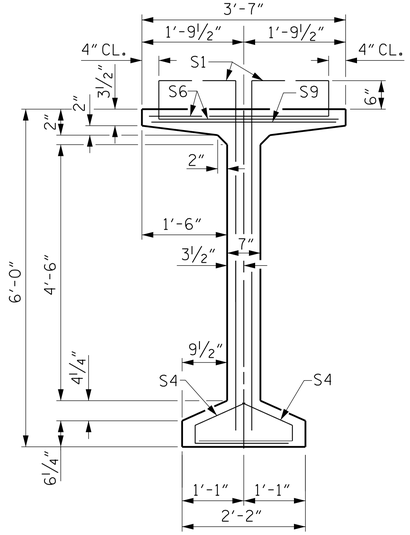
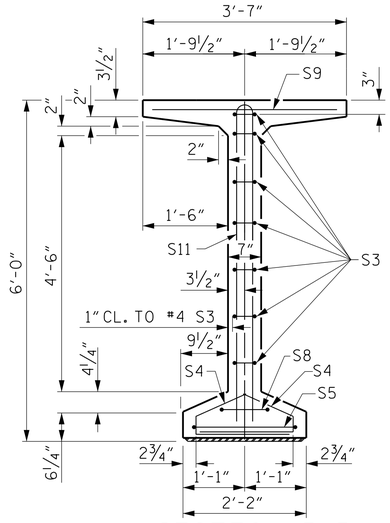
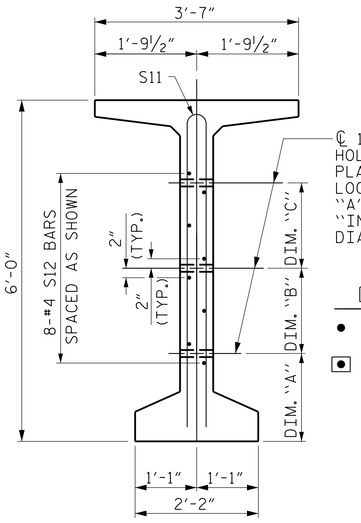
DocuSign Envelope ID: 9EC73AD9-6FB7-47C0-B1FF-06B495E4C157



SECTION A-A



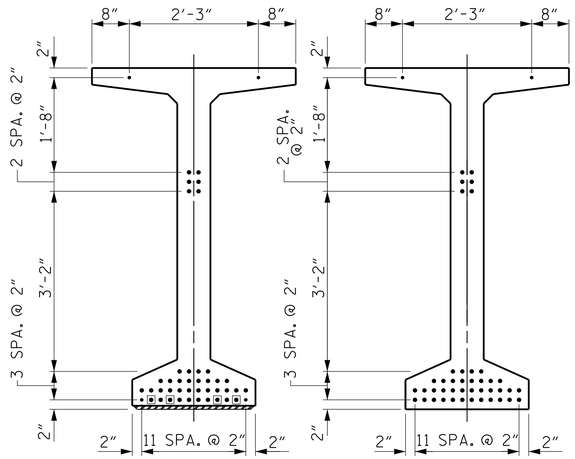
SECTION B-B



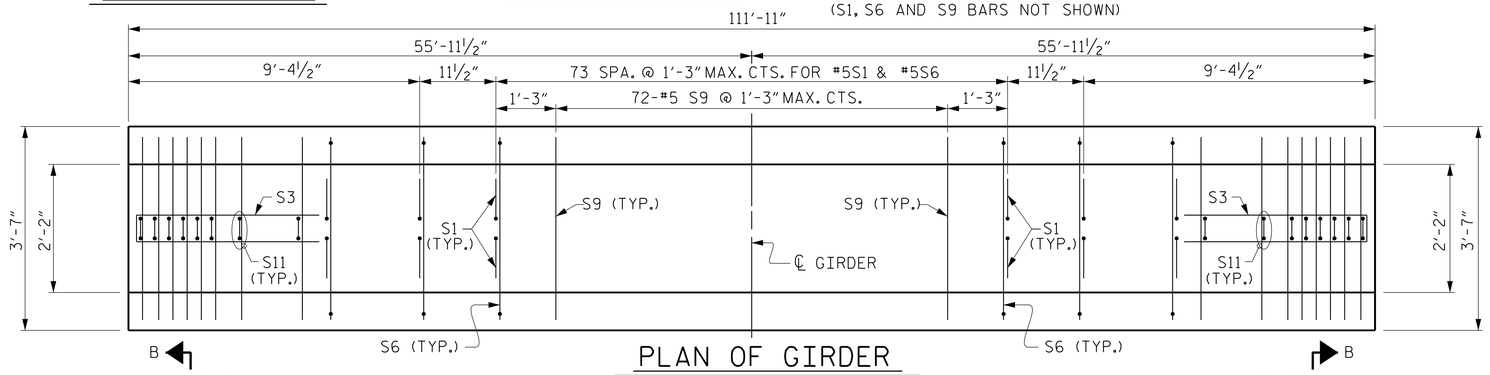
SECTION C-C
(S1, S6 AND S9 BARS NOT SHOWN)

DEBONDING LEGEND

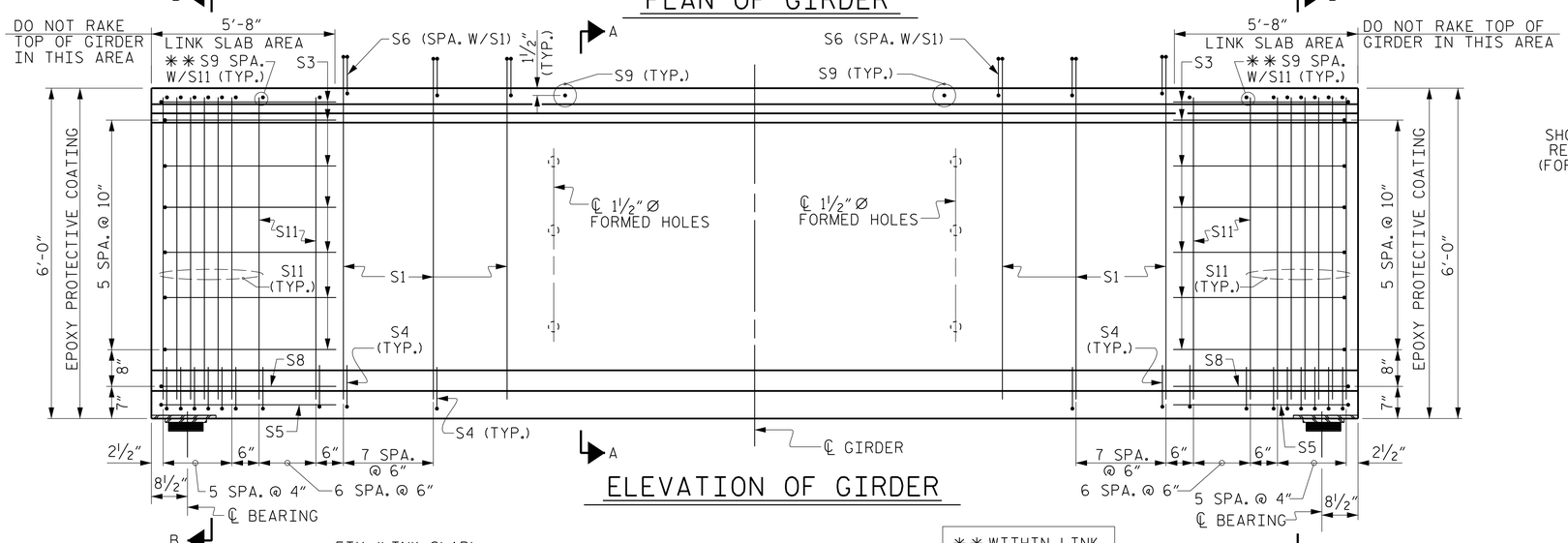
- FULLY BONDED STRANDS
- STRANDS DEBONDED FOR 4'-0" FROM END OF GIRDER



0.6" Ø LOW RELAXATION STRAND LAYOUT



PLAN OF GIRDER

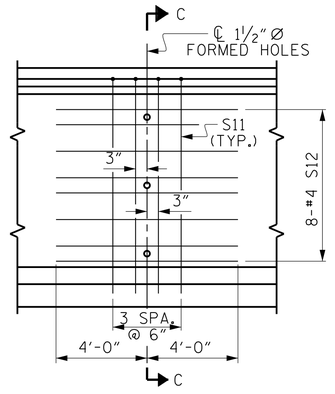


ELEVATION OF GIRDER

FIX. (LINK SLAB)

** WITHIN LINK SLAB AREA ONLY

FIX. (LINK SLAB)



PARTIAL ELEVATION

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

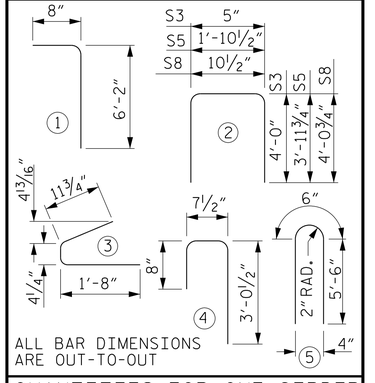
0.6" Ø L.R. GRADE 270 STRANDS

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	180	#5	1	6'-10"	1283
S3	14	#4	2	8'-5"	79
S4	84	#4	3	3'-0"	168
S5	2	#5	2	9'-10"	21
S6	180	#5	4	4'-4"	814
S8	2	#5	2	9'-0"	19
S9	116	#5	STR	3'-3"	393
S11	34	#5	5	11'-6"	408
S12	16	#4	STR	8'-0"	86

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.
	3271	24.0	44

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
4	111'-11"	447'-8"

PROJECT NO. R-5819

COLUMBUS COUNTY

STATION: 40+06.72 -Y2- POT

SHEET 2 OF 6

PLANS PREPARED BY:

NV5 ENGINEERS & CONSULTANTS, INC.
3300 REGENCY PARKWAY, SUITE 100
CARY, NC 27518
P: 919.851.1912 www.NV5.com
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 047116 MATTHEW DAVID METZGER

DocuSigned by: Matt Metzger

4/12/2022

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

STANDARD

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

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S1-15
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 10:25:20 AM G:\Project\2016\2060320\CLIENT\StructuresVR-589 (-Y2-\VR589_SMU_02_230422.dgn