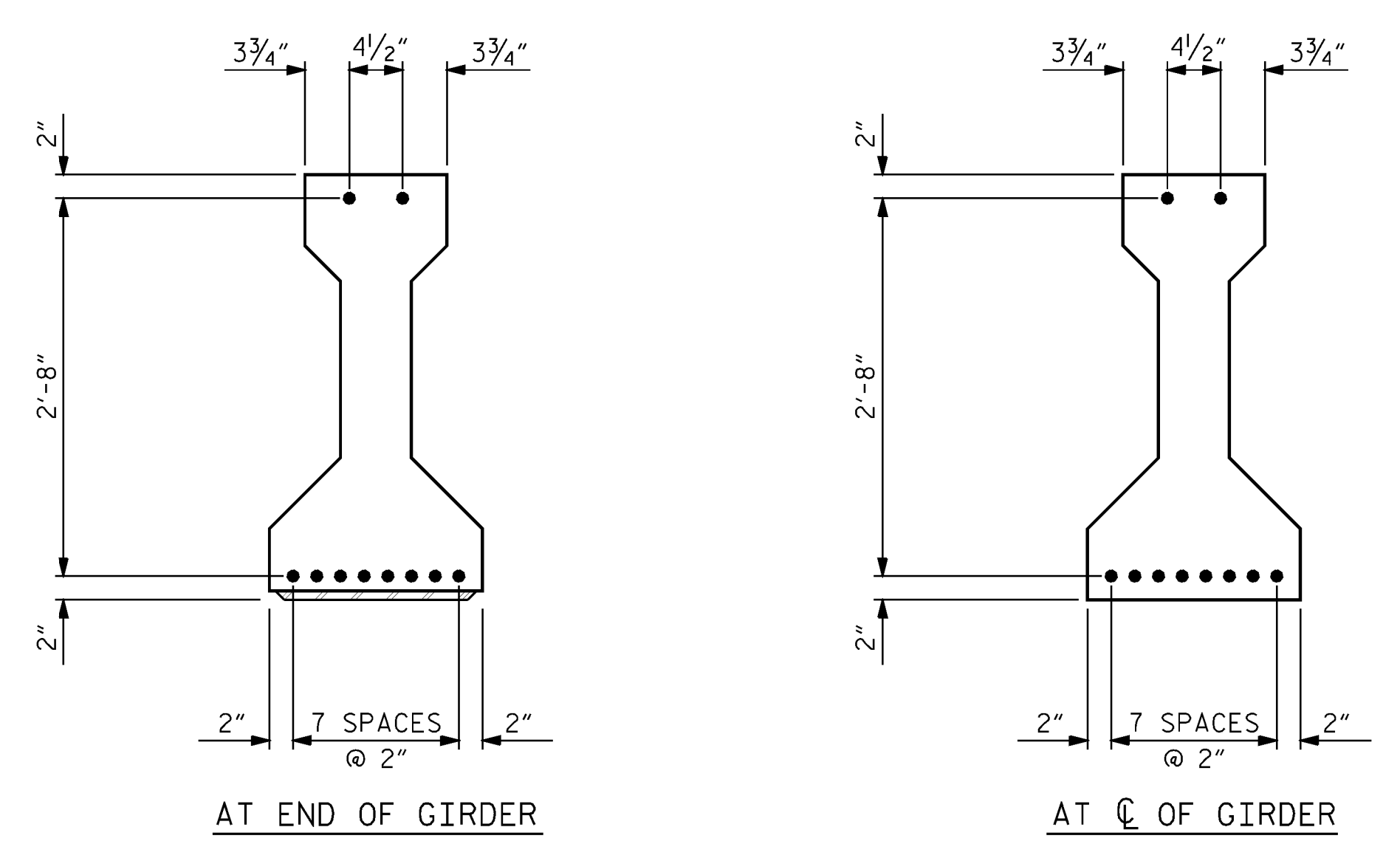


* FOR S4 BARS, SEE
DETAIL "A" OF
"PRESTRESSED
CONCRETE GIRDER
CONTINUOUS FOR LIVE
LOAD DETAILS" SHEET
4 OF 5



0.6" Ø LOW RELAXATION STRAND LAYOUT

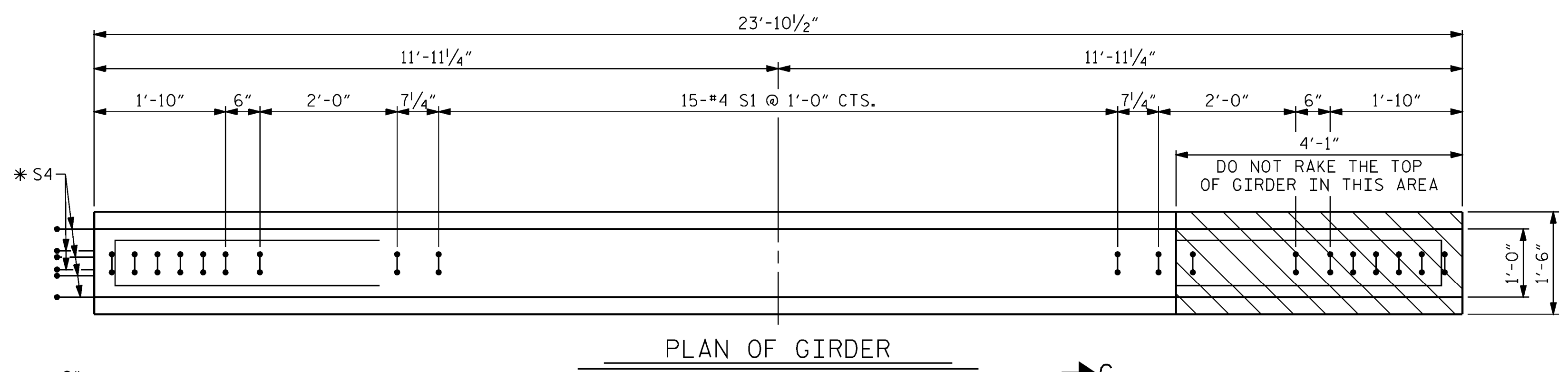
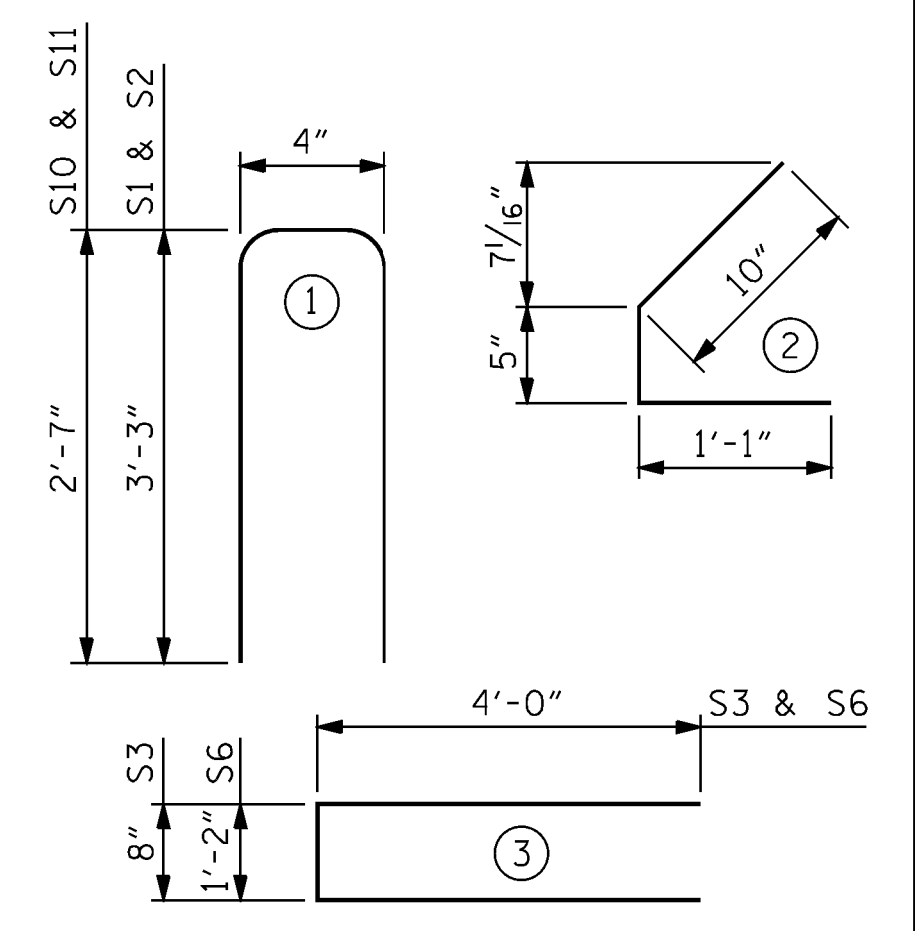
DEBONDING LEGEND
● FULLY BONDED STRANDS

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 GIRDER					
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	21	#4	1	6'-10"	96
S2	6	#5	1	6'-10"	43
S3	4	#4	3	8'-8"	23
* S4	6	#5	STR	3'-8"	23
S5	44	#4	2	2'-4"	69
S6	1	#4	3	9'-2"	6
S10	4	#4	1	5'-6"	15
S11	6	#5	1	5'-6"	34

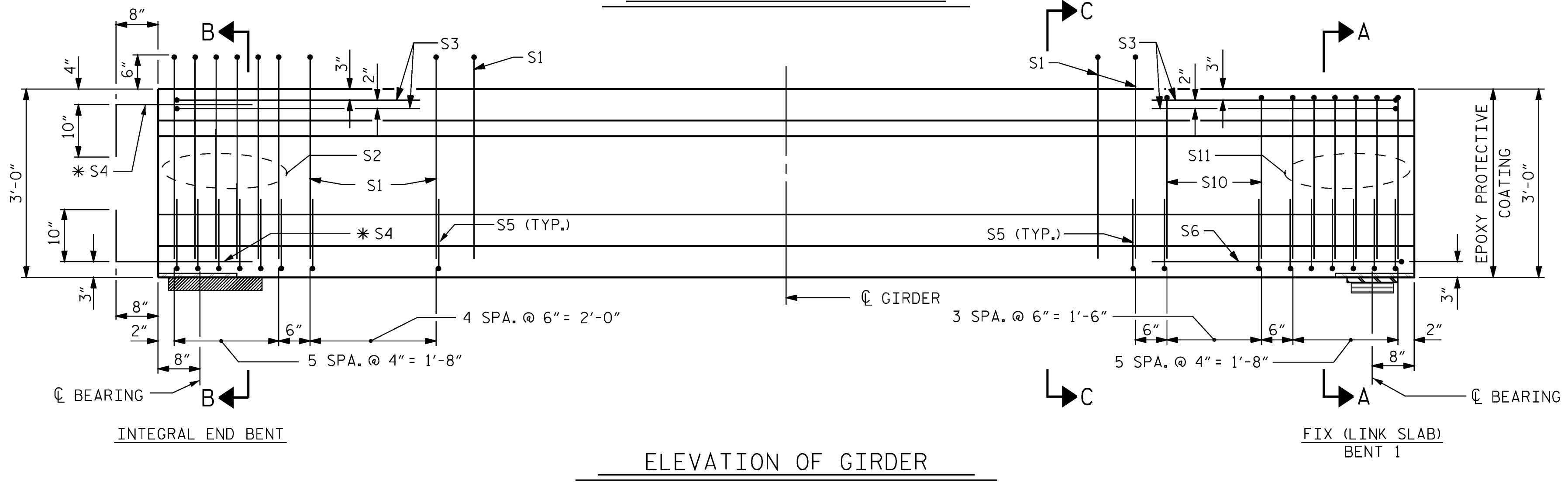
* NOTE: S4 BARS SHALL BE BENT BEFORE SHIPMENT. HEAT BENDING SHALL NOT BE ALLOWED.

BAR TYPES

ALL BAR DIMENSIONS ARE OUT-TO-OUT



PLAN OF GIRDER



ELEVATION OF GIRDER

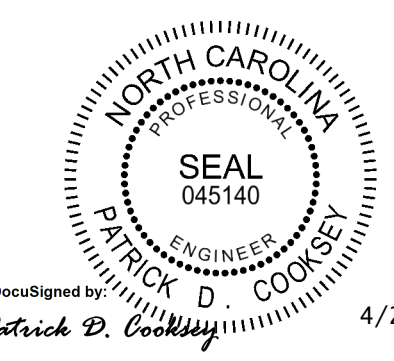
QUANTITIES FOR ONE GIRDER

GDR. AG1-AG5	REINFORCING STEEL	6,000 PSI CONCRETE	0.6" Ø L. R. STRANDS
	LB.	C.Y.	No.
GDR. AG1-AG5	309	2.3	10
GIRDERS REQUIRED			
NUMBER	LENGTH	TOTAL LENGTH	
5	23'-10 1/2"	119'-4 1/2"	

PROJECT NO. B-5534
DUPLIN COUNTY
 STATION: 21+68.50 -L-

SHEET 1 OF 5

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 STANDARD
 AASHTO TYPE II
 PRESTRESSED CONCRETE GIRDER
 CONTINUOUS FOR LIVE LOAD
 SPAN A



Kimley»Horn
 421 Fayetteville Street, Suite 600
 Raleigh, NC 27601-1772
 Phone (919) 677-2000 NC LICENSE # F-0102

This document, together with the concepts and designs presented herein, is an integral part of the contract. It is intended only for the specific project and shall not be used for any other project without the written authorization and approval of Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

**DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED**

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-11
1			3			TOTAL SHEETS
2			4			34

STD. NO. PCG4

K:\BIDI_Structures\Bridge\N.C.10136500 - B-5534\ConDgn\B5534_SML.G1_300082.dgn

ASSEMBLED BY : D. D. LOWERY	DATE : 02/2020
CHECKED BY : P. D. COOKSEY	DATE : 02/2020
DRAWN BY : ELR 8/91	REV. 10/1/11 MAA/GM
CHECKED BY : GRP 8/91	REV. 1/15 MAA/TMG
	REV. 12/17 MAA/THC