

15.24mm Ø L. R. GRADE 1860 STRANDS

AREA (mm ²)	ULTIMATE STRENGTH (KN PER STRAND)	APPLIED PRESTRESS (KN PER STRAND)
140.0	260.4	195.3

REINFORCING STEEL FOR ONE GIRDER

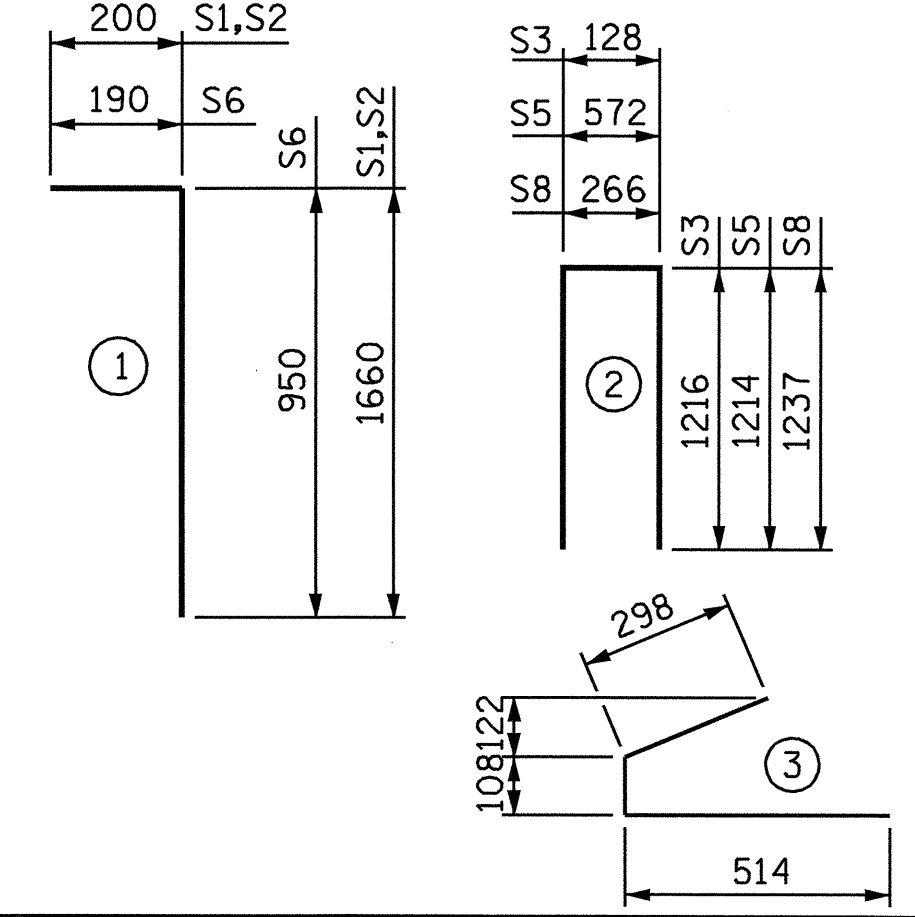
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	146	#13	1	1860	270
S2	24	#16	1	1860	69
S3	12	#13	2	2560	31
S4	92	#13	3	920	84
S5	1	#16	2	3000	5
S6	170	#16	1	1140	301

*S7	10	#16	STR	1120	17
S8	2	#16	2	2740	9
S9	38	#16	STR	980	58
S10	1	#10	STR	560	1

* 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

	REINFORCING STEEL	51.57 MPa CONCRETE	15.24mm Ø L.R. STRANDS
	kg	m ³	No.
SPAN B	845	14.7	30

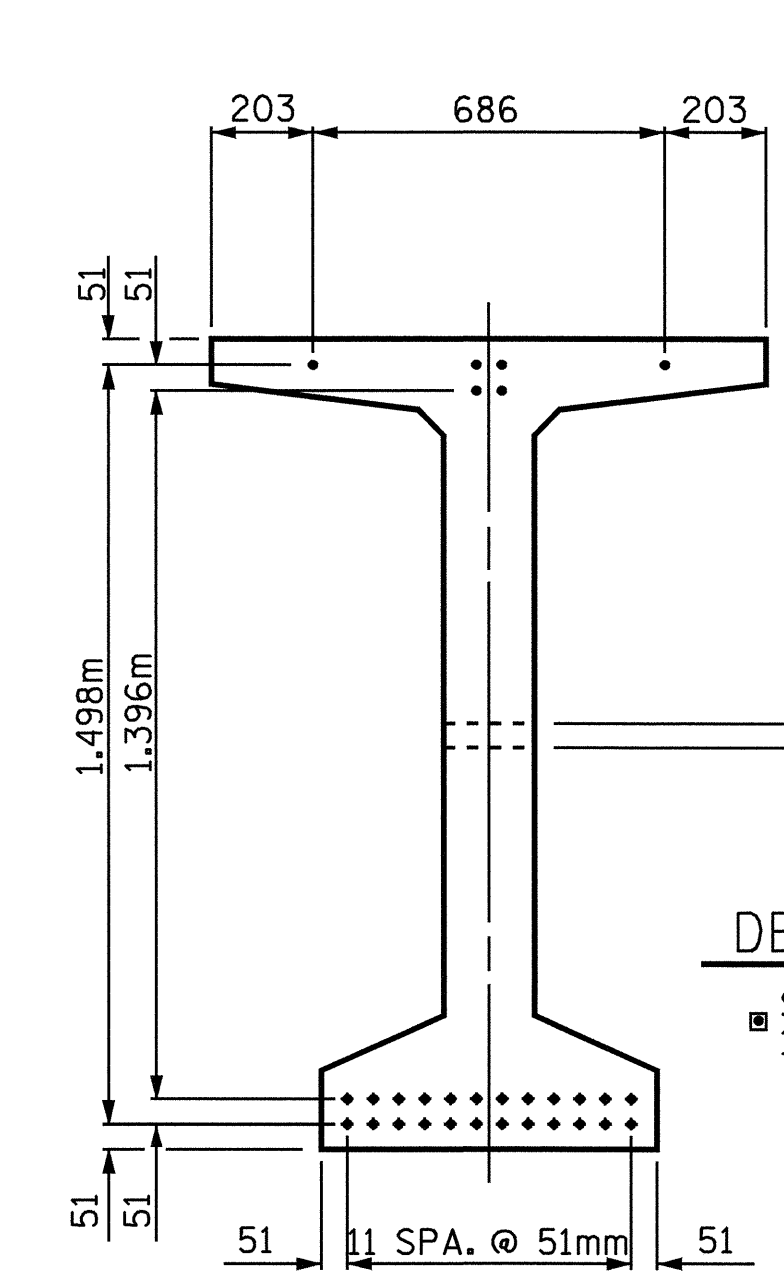
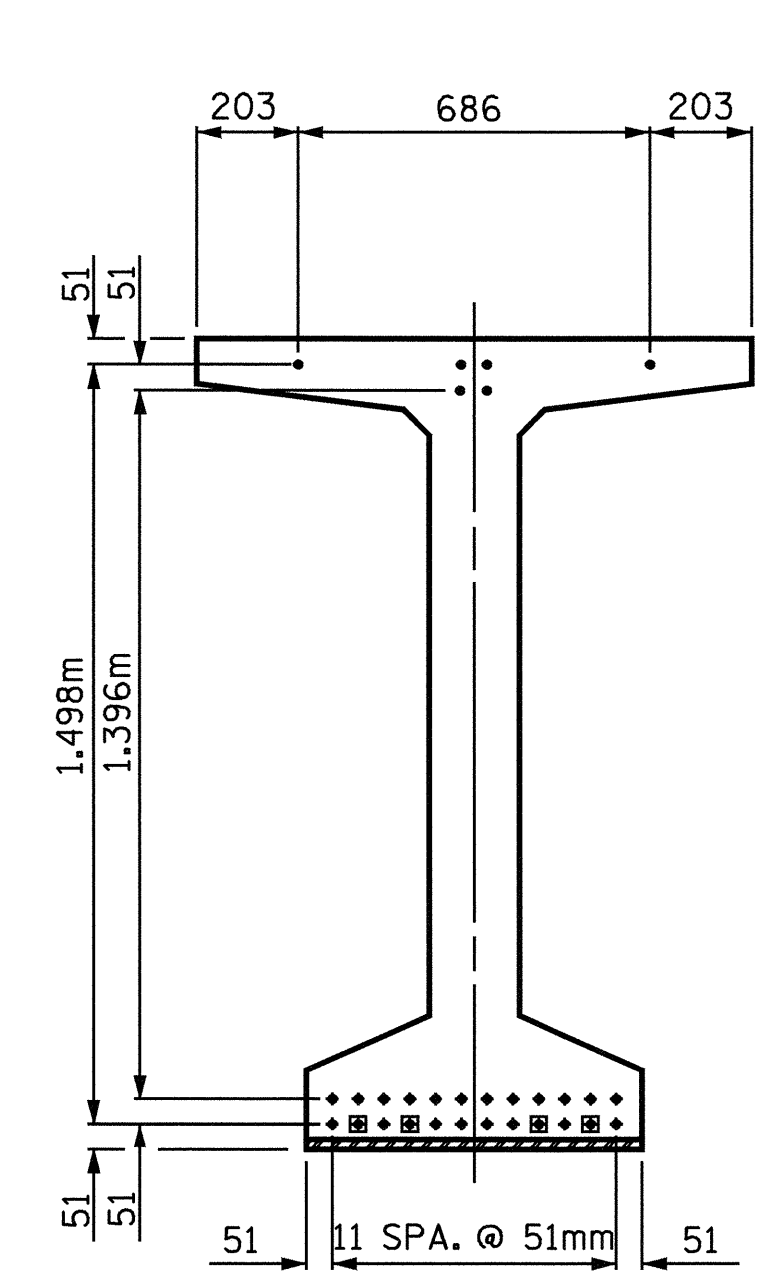
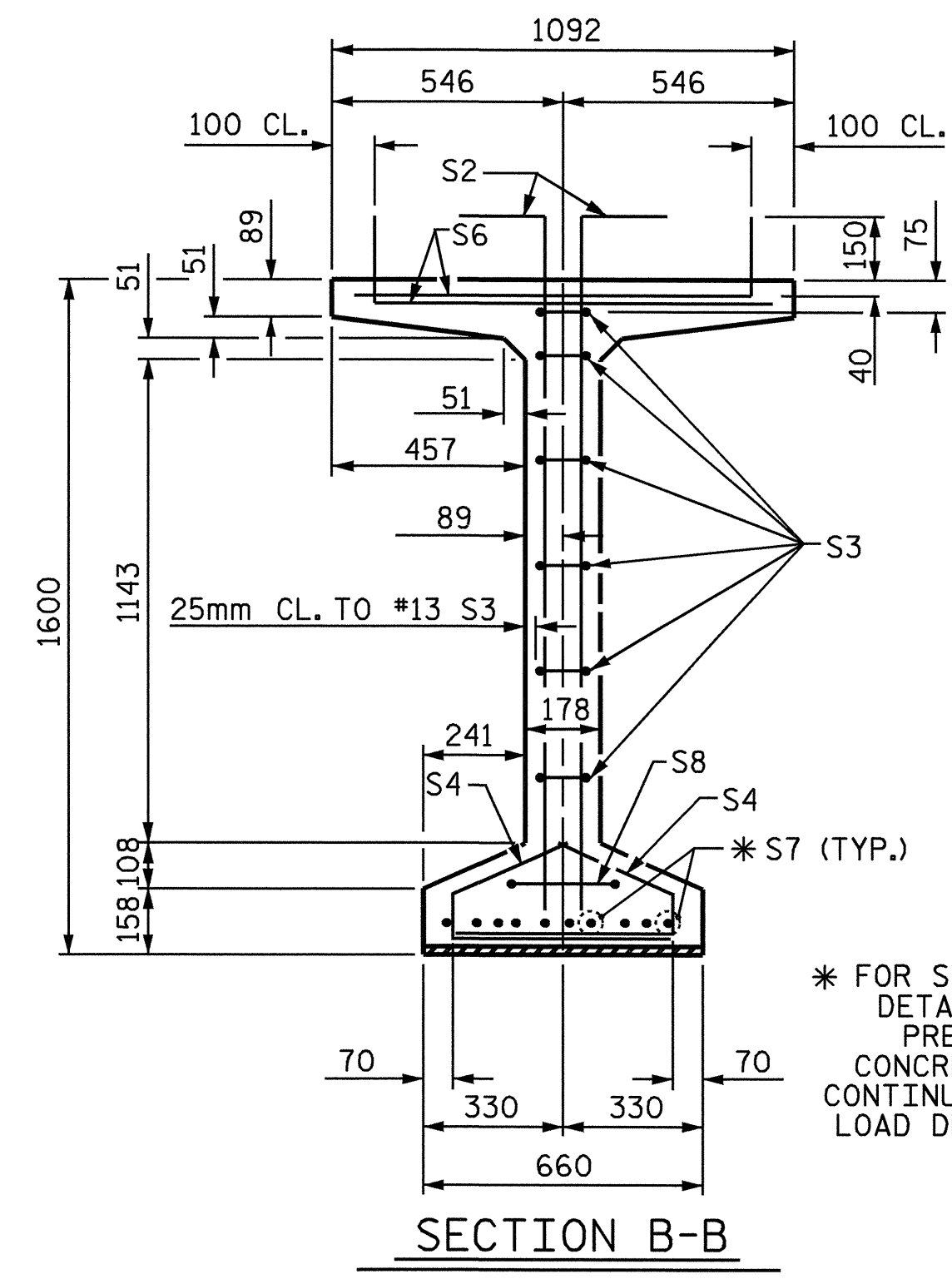
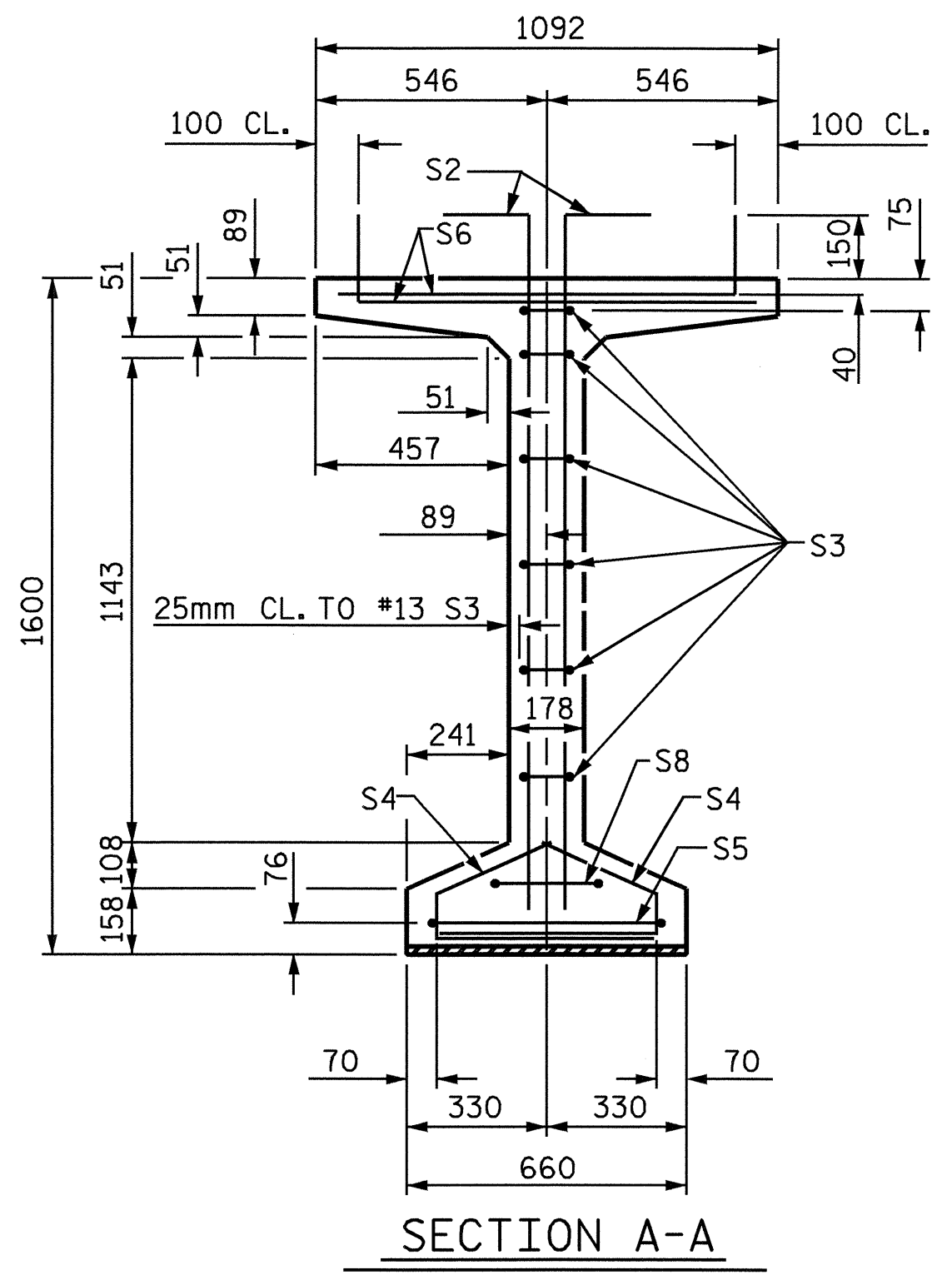
GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
4	29.610m	118.440m

PROJECT NO. R-2206C
 LINCOLN-CATAWBA COUNTY
 STATION: 216+60.508-L-

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
STANDARD
 1600mm PRESTRESSED CONCRETE
 MODIFIED BULB TEE
 CONTINUOUS FOR LIVE LOAD
 (WITH 15.24mm Ø
 PARTIALLY DEBONDED STRANDS)
SPAN "B"

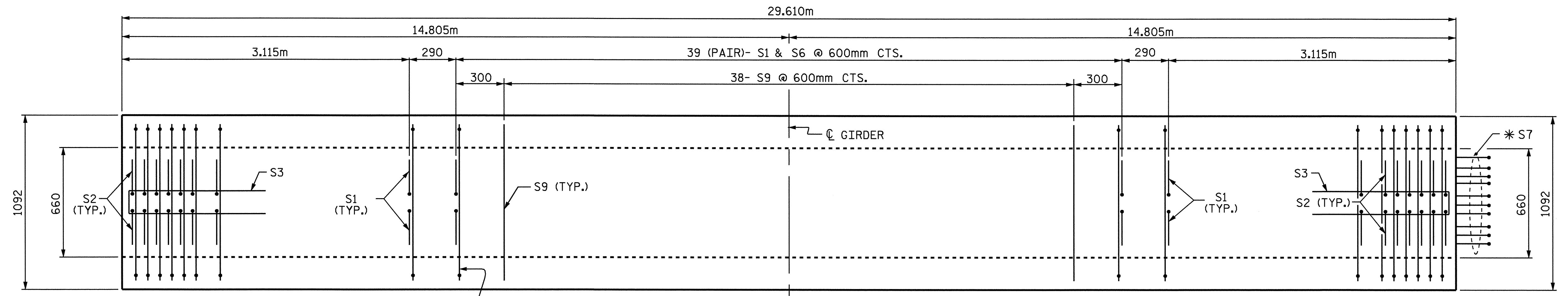
REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-112
1			3			TOTAL SHEETS
2			4			374



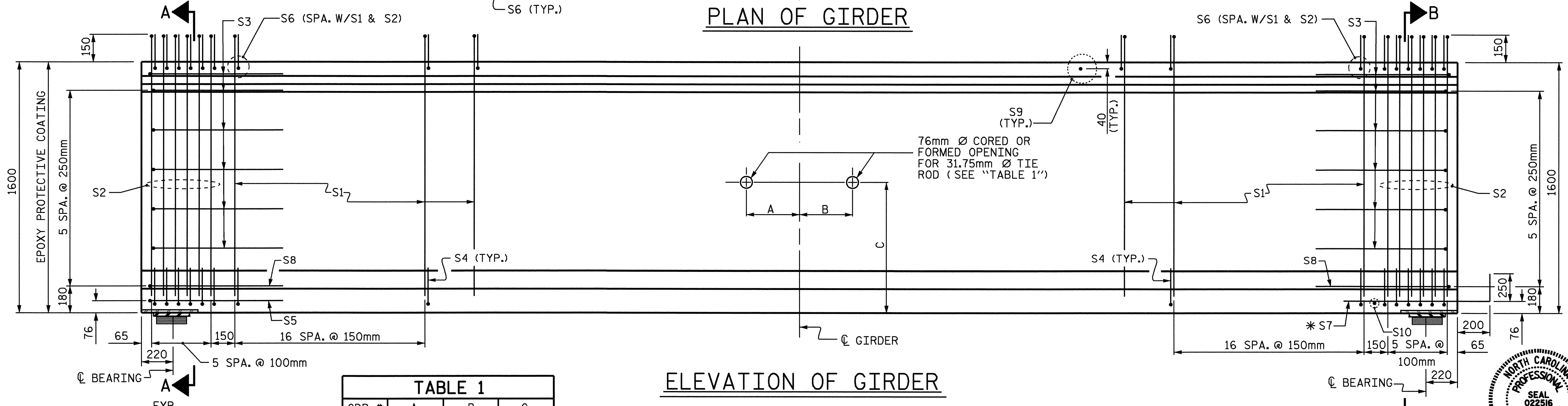
DEBONDING LEGEND

STRANDS DEBONDED FOR 1.220m FROM END OF GDR.

AT END OF GIRDER AT C OF GIRDER
 15.24mm Ø LOW RELAXATION STRAND LAYOUT



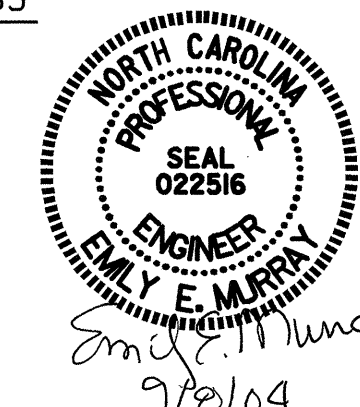
PLAN OF GIRDER



ELEVATION OF GIRDER

GDR. #	A	B	C
B1		900mm	820mm
B2		300mm	770mm
B3	300mm		770mm
B4	900mm		820mm

ASSEMBLED BY: M.D.PISO DATE: 8/03
 CHECKED BY: M.M.PARSONS DATE: 8/03
 DRAWN BY: RWW 9/19/02 ADDED 9/19/02
 CHECKED BY: GM 9/19/02



Emily E. Murphy
 9/20/04