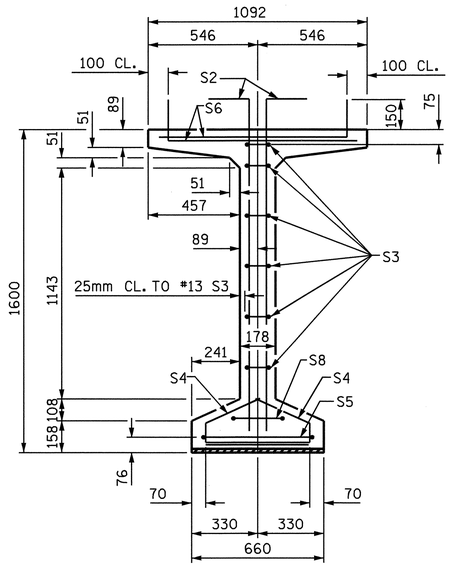
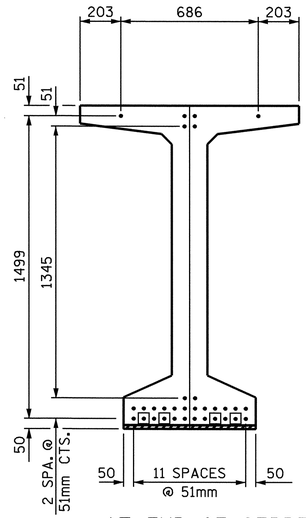
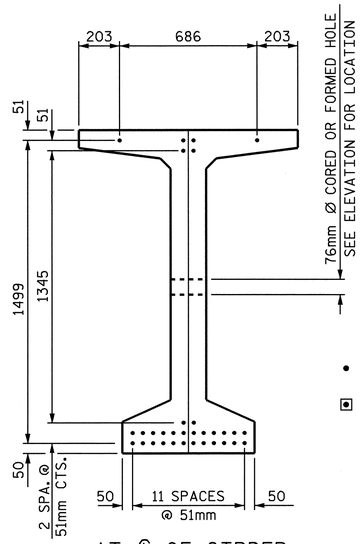


SECTION A-A



AT END OF GIRDERS

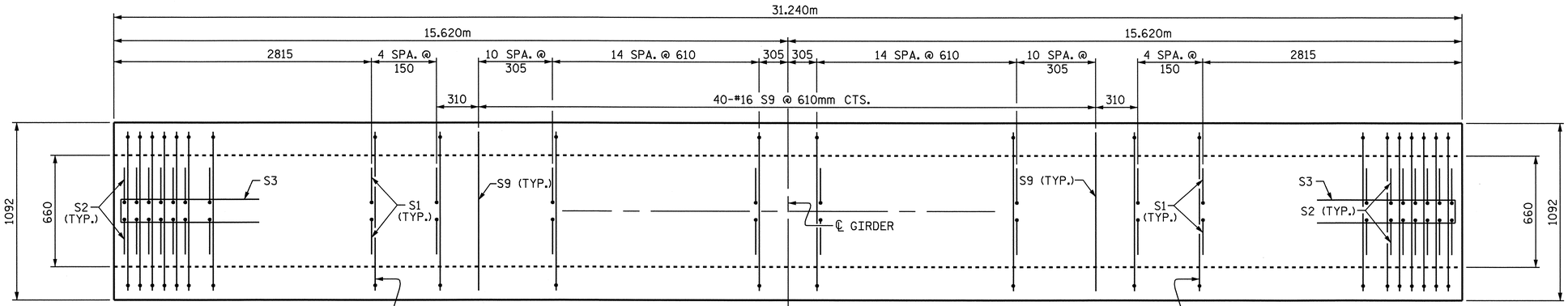


AT ℄ OF GIRDER

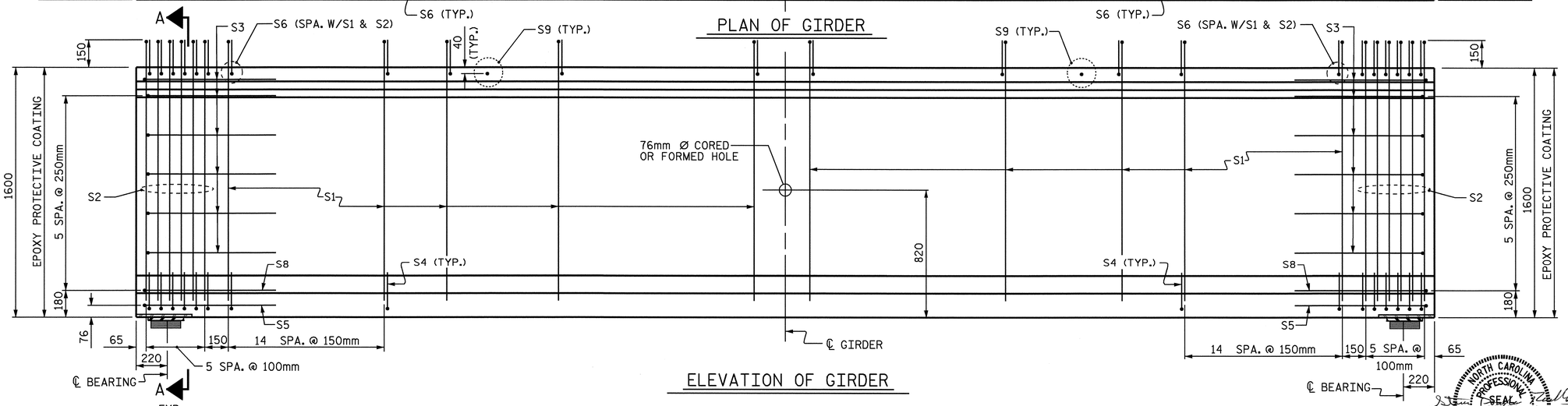
DEBONDING LEGEND

- FULLY BONDED STRANDS
- STRANDS DEBONDED FOR 1.220m FROM END OF GIRDER

15.24mm Ø LOW RELAXATION STRAND LAYOUT



PLAN OF GIRDER



ELEVATION OF GIRDER

ASSEMBLED BY : A. K. PATEL	DATE : 06-29-04		
CHECKED BY : M. K. BEARD	DATE : 07-14-04		
DRAWN BY : RWW 9/19/02	ADDED 9/19/02		
CHECKED BY : GM 9/19/02			

15.24mm Ø L.R. GRADE 270 STRANDS

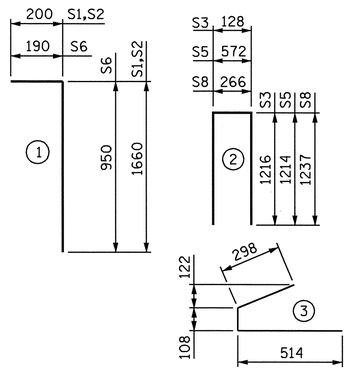
AREA (mm^2)	ULTIMATE STRENGTH (kN PER STRAND)	APPLIED PRESTRESS (kN PER STRAND)
140.0	260.4	195.3

REINFORCING STEEL FOR ONE GIRDER

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	176	#13	1	1860	325
S2	24	#16	1	1860	69
S3	12	#13	2	2560	31
S4	84	#13	3	920	77
S5	2	#16	2	3000	9
S6	200	#16	1	1140	354
S8	2	#16	2	2740	9
S9	40	#16	STR	980	61

BAR TYPES

ALL BAR DIMENSIONS ARE OUT-TO-OUT



QUANTITIES FOR ONE GIRDER

REINFORCING STEEL	48.3 MPa CONCRETE	15.24mm Ø L.R. STRANDS
kg	m^3	No.
935	15.6	32

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
5	31.240m	156.200m

PROJECT NO. B-3376

WAKE COUNTY

STATION: 12+90.000 -L-

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

OPTIONAL

1600mm PRESTRESSED CONCRETE MODIFIED BULB TEE (WITH 15.24mm Ø PARTIALLY DEBONDED STRANDS)

NORTH CAROLINA PROFESSIONAL SEAL 20724 ENGINEER STEVEN DOUGLAS RACKLEY
9/26/04

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-8
1			3			TOTAL SHEETS
2			4			23

28-SEP-2004 15:13
W:\squads\B3376\FinalPlans\B3376_SD_G*_01.dgn
srackley

STD. NO. PCGD9SM