

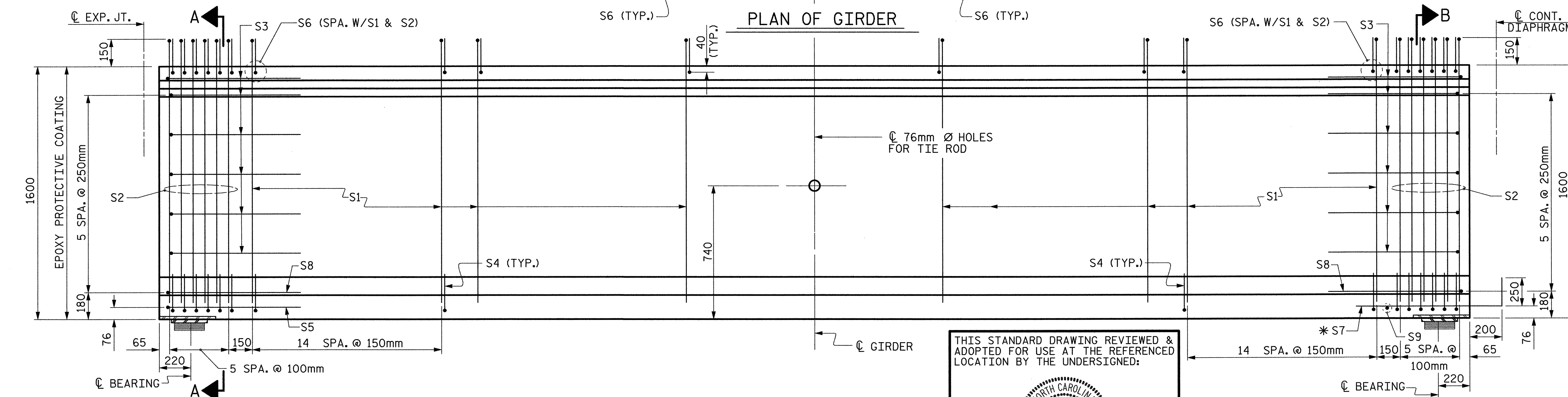
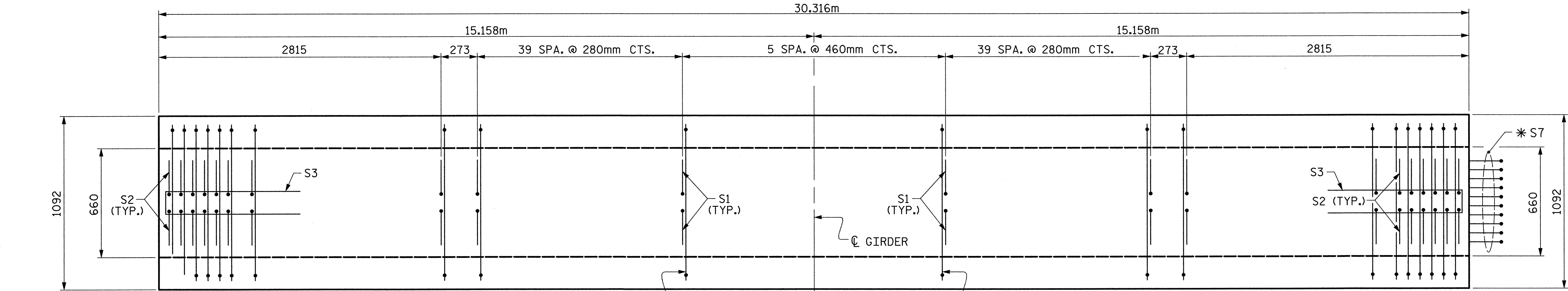
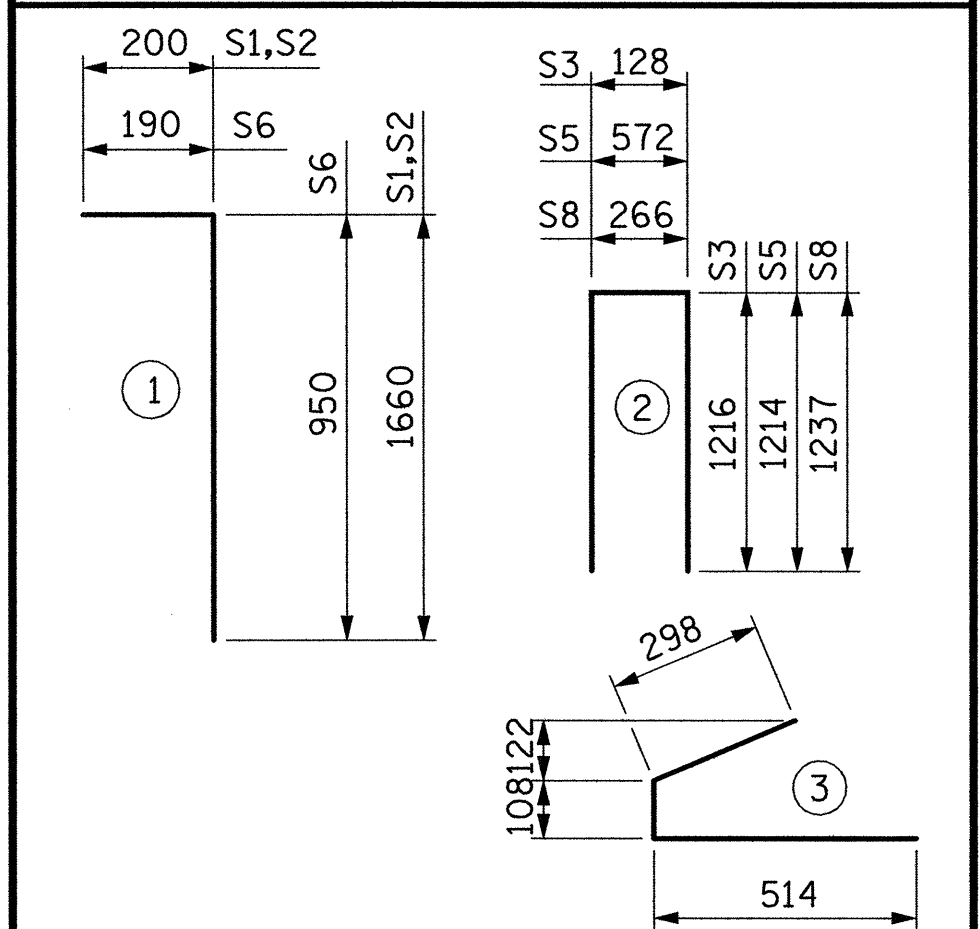
- DEBONDING LEGEND
- FULLY BONDED STRANDS
  - STRANDS DEBONDED FOR 1.220m FROM END OF GIRDER
  - STRANDS DEBONDED FOR 3.050m FROM END OF GIRDER
  - STRANDS DEBONDED FOR 9.150m FROM END OF GIRDER

15.24mm Ø L. R. GRADE 270 STRANDS		
AREA (mm <sup>2</sup> )	ULTIMATE STRENGTH (KN PER STRAND)	APPLIED PRESTRESS (KN PER STRAND)
140.00	260.4	195.3

REINFORCING STEEL FOR ONE GIRDER					
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	228	#13	1	1860	422
S2	24	#16	1	1860	69
S3	12	#13	2	2560	31
S4	84	#13	3	920	77
S5	1	#16	2	3000	5
S6	252	#16	1	1140	446
*S7	10	#16	STR	1120	17
S8	2	#16	2	2740	9
S9	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			
SPAN	REINFORCING STEEL (kg)	50.0 MPa CONCRETE (m <sup>3</sup> )	15.24mm Ø L.R. STRANDS (No.)
A,C,D&F	1077	15.1	34

GIRDERS REQUIRED			
SPAN	NUMBER	LENGTH	TOTAL LENGTH
A,C,D&F	16	30.316m	485.056m

PROJECT NO. R-2552AA  
WAKE - JOHNSTON COUNTY  
STATION: 14+38.000 -LREV- POT  
SHEET 2 OF 5

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH  
OPTIONAL  
1600mm PRESTRESSED CONCRETE  
MODIFIED BULB TEE  
CONTINUOUS FOR LIVE LOAD  
(WITH 15.24mm Ø PARTIALLY  
DEBONDED STRANDS)  
SPANS A,C,D&F (RIGHT LANE)

ASSEMBLED BY: J. P. SHERMAN DATE: 6/04  
CHECKED BY: R. C. LARSON DATE: 8/04  
DRAWN BY: EEM 2/6/97 REV. 7/17/98 RWW/LJS  
CHECKED BY: VAP 2/6/97 REV. 8/16/99 RWW/LJS  
REV. 10/17/00 RWW/LJS

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

PLANS PREPARED BY:  
**MULKEY**  
ENGINEERS & CONSULTANTS  
PO Box 33127  
RALEIGH, N.C. 27636  
(919) 851-1912  
(919) 851-1918 (FAX)  
WWW.MULKEYINC.COM

REFERENCE NO. BR-14

REVISIONS				SHEET NO.	
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

TOTAL SHEETS: 429