

- DEBONDING LEGEND**
- FULLY BONDED STRANDS
 - STRANDS DEBONDED FOR 0.600m FROM END OF GIRDER
 - △ STRANDS DEBONDED FOR 1.200m FROM END OF GIRDER

15.24mm Ø LOW RELAXATION STRAND LAYOUT

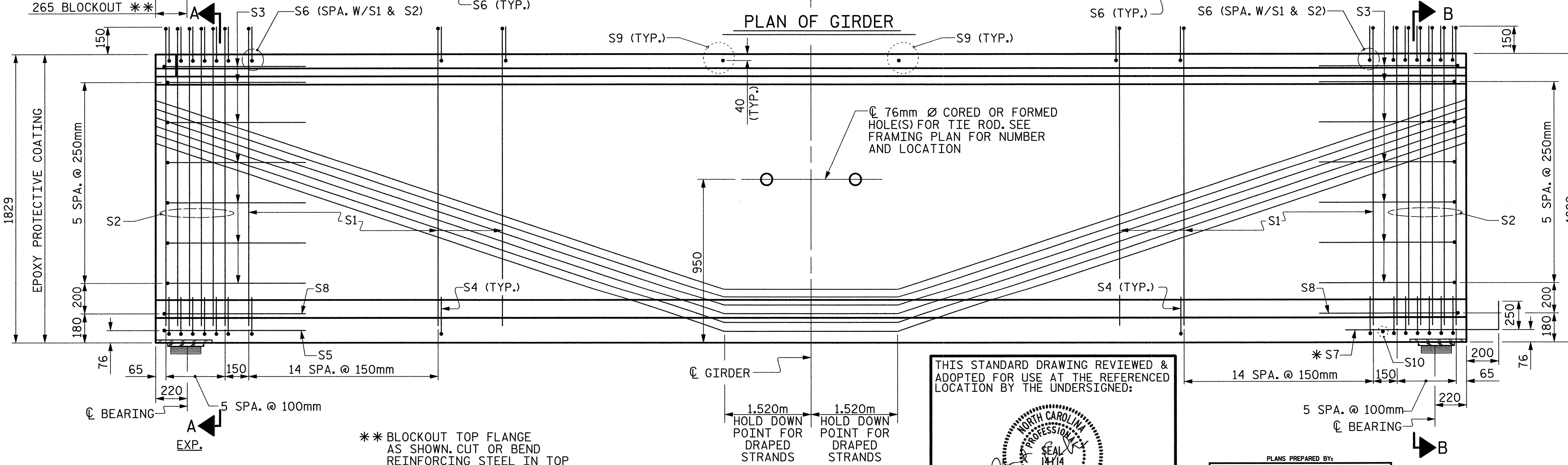
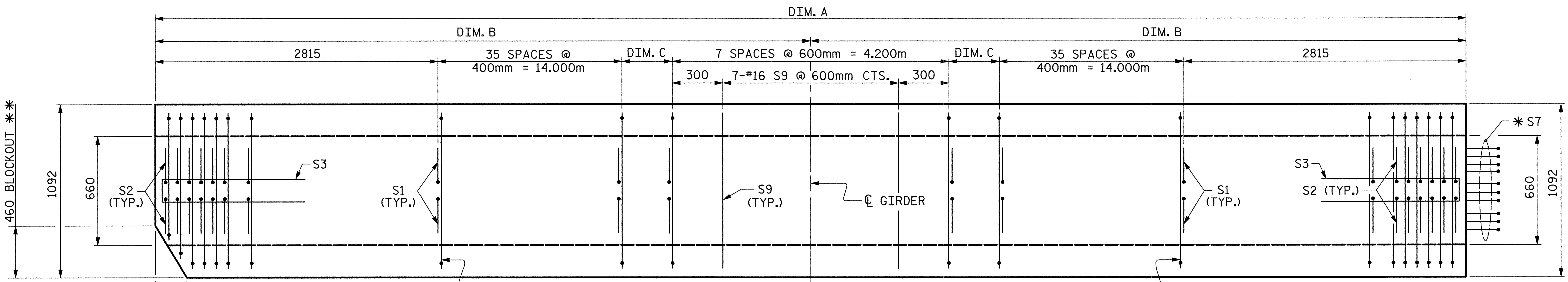
15.24mm Ø L. R. GRADE 270 STRANDS		
AREA (mm ²)	ULTIMATE STRENGTH (kN PER STRAND)	APPLIED PRESTRESS (kN PER STRAND)
140.0	260.4	195.3

REINFORCING STEEL FOR ONE GIRDER					
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	220	#13	1	2100	459
S2	24	#16	1	2100	78
S3	14	#13	2	2560	36
S4	84	#13	3	920	77
S5	1	#16	2	3000	5
S6	244	#16	1	1140	432
*S7	10	#16	STR	1120	17
S8	2	#16	2	2740	9
S9	7	#16	STR	980	11
S10	1	#10	STR	560	1

* NOTE: S7 BARS SHALL BE BENT BEFORE SHIPMENT. HEAT BENDING SHALL NOT BE ALLOWED.

QUANTITIES FOR ONE GIRDER

GIRDER	SPAN	REINFORCING STEEL	55.0 MPa CONCRETE	15.24mm Ø L.R. STRANDS
		kg	m ³	No.
GIRDER 1	SPAN C	1125	20.8	40
GIRDER 2	SPAN C	1125	20.8	40
GIRDER 3	SPAN C	1125	20.8	40
GIRDER 4	SPAN C	1125	20.9	40
GIRDER 5	SPAN C	1125	20.9	40
GIRDER 1	SPAN D	1125	20.7	40
GIRDER 2	SPAN D	1125	20.7	40
GIRDER 3	SPAN D	1125	20.8	40
GIRDER 4	SPAN D	1125	20.8	40
GIRDER 5	SPAN D	1125	20.8	40



GIRDERS REQUIRED

SPAN	NUMBER	LENGTH	TOTAL LENGTH
GIRDER 1	C	1	38.756m
GIRDER 2	C	1	38.786m
GIRDER 3	C	1	38.816m
GIRDER 4	C	1	38.846m
GIRDER 5	C	1	38.876m
GIRDER 1	D	1	38.582m
GIRDER 2	D	1	38.612m
GIRDER 3	D	1	38.644m
GIRDER 4	D	1	38.674m
GIRDER 5	D	1	38.704m
TOTAL LENGTH FOR SPANS C & D			387.296m

DIMENSION TABLE

SPAN	GIRDER	DIM. A	DIM. B	DIM. C
C	1	38.756m	19.378m	463
	2	38.786m	19.393m	478
	3	38.816m	19.408m	493
	4	38.846m	19.423m	508
	5	38.876m	19.438m	523
D	1	38.582m	19.291m	376
	2	38.612m	19.306m	391
	3	38.644m	19.322m	407
	4	38.674m	19.337m	422
	5	38.704m	19.352m	437

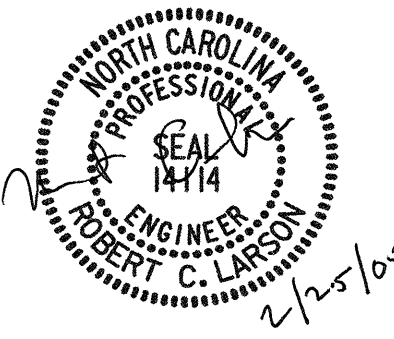
PROJECT NO. **R-2552C**
JOHNSTON COUNTY
 STATION: **110+37.000 -L2RT- POC**
 SHEET 3 OF 4

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
OPTIONAL
 1829mm PRESTRESSED CONCRETE
 MODIFIED BULB TEE
 CONTINUOUS FOR LIVE LOAD
 (WITH 15.24mm Ø STRANDS)
 SPAN C & D (RIGHT LANE)

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ASSEMBLED BY: **W. B. ALLEN** DATE: 10/04
 CHECKED BY: **R. C. LARSON** DATE: 1/05
 DRAWN BY: **EEM** 2/6/97 REV. 7/17/98 RWW/LES
 CHECKED BY: **VAP** 2/6/97 REV. 8/16/99 RWW/LES
 REV. 10/11/00 RWW/LES

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



STANDARD NO. **PCG10SM**
 REFERENCE NO. BR-16

SHEET NO. **S-241**

REVISIONS				
NO.	BY	DATE	BY	DATE
1				
2				
3				
4				

TOTAL SHEETS **431**