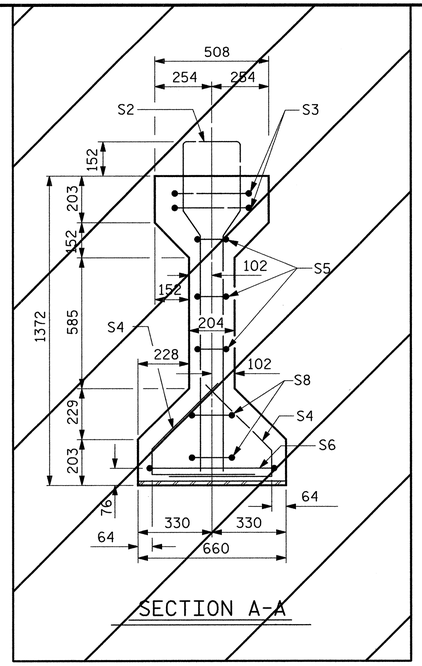
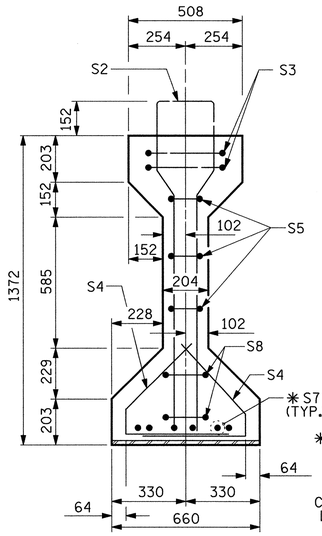
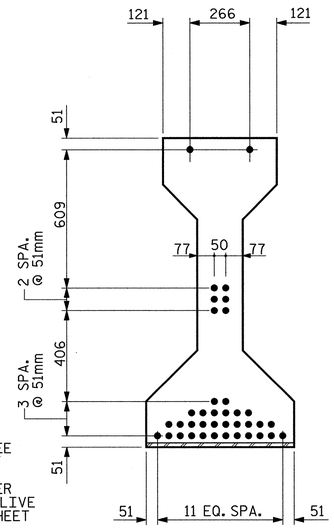


SECTION A-A

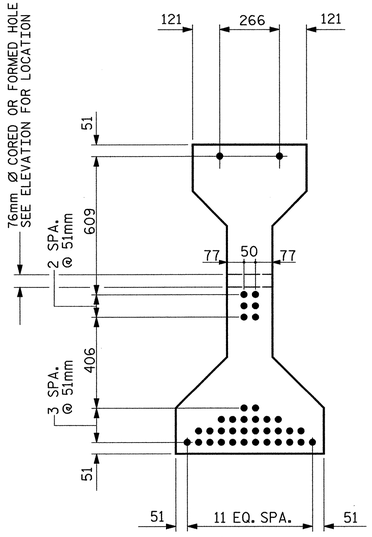


SECTION B-B

✱ FOR S7 BARS, SEE DETAIL "A" OF PRESTRESSED CONCRETE GIRDER CONTINUOUS FOR LIVE LOAD DETAILS SHEET

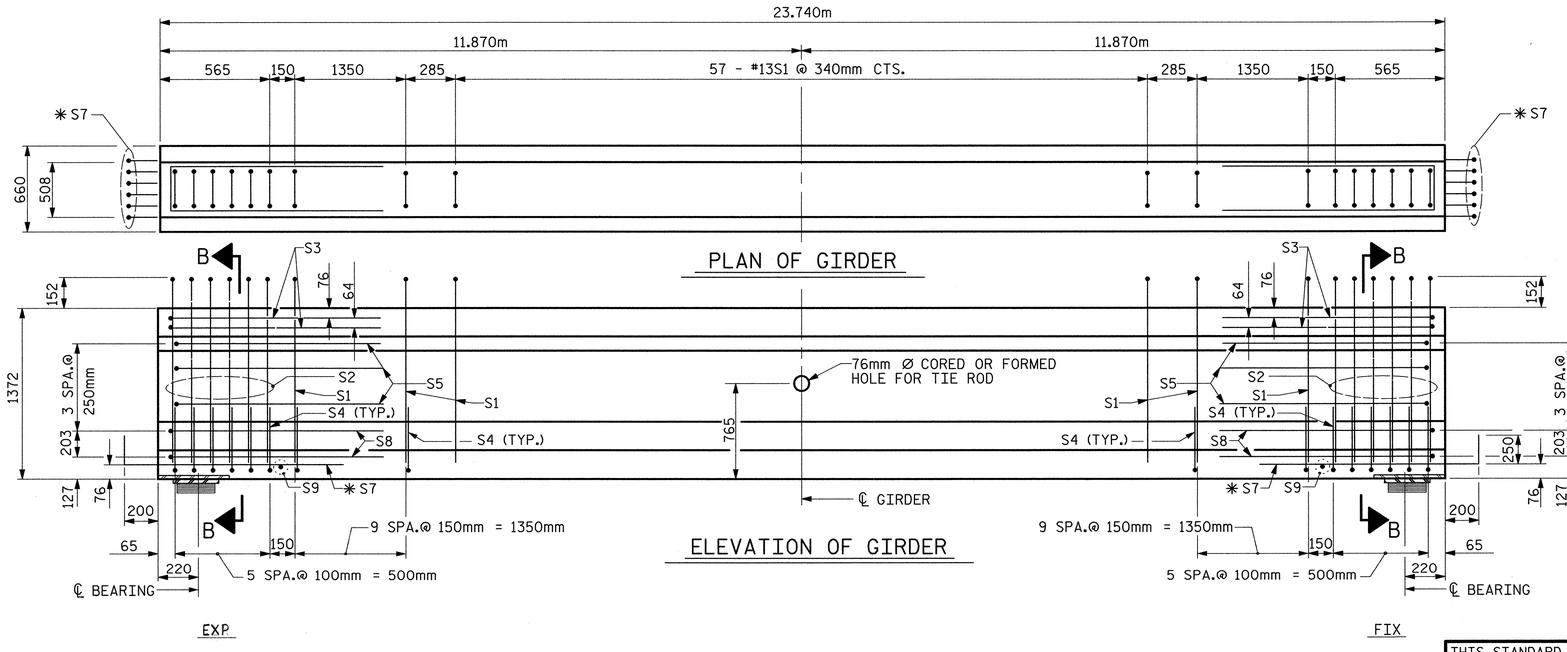


AT END OF GIRDER



AT ℄ OF GIRDER

12.70mm Ø LOW RELAXATION STRAND LAYOUT



PLAN OF GIRDER

ELEVATION OF GIRDER

12.70mm Ø L. R. GRADE 270 STRANDS		
AREA (mm^2)	ULTIMATE STRENGTH (kN PER STRAND)	APPLIED PRESTRESS (kN PER STRAND)
98.71	183.7	137.8

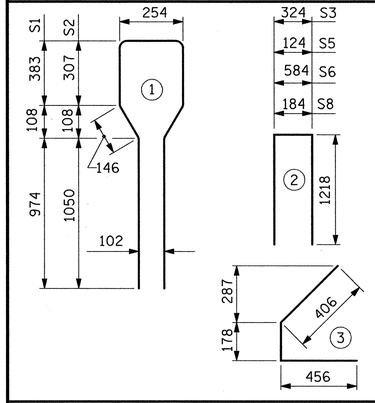
REINFORCING STEEL FOR ONE GIRDER

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	77	#13	1	3260	250
S2	12	#19	1	3260	87
S3	4	#13	2	2760	11
S4	64	#13	3	1040	66
S5	6	#13	2	2560	15
S6	1	#13	2	3020	3
✱S7	12	#16	STR	1120	21
S8	4	#13	2	2620	10
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

	REINFORCING STEEL	45.0 MPa CONCRETE	12.70mm Ø L.R. STRANDS
	kg	m^3	No.
	464	12.1	38

GIRDERS REQUIRED

	NUMBER	LENGTH	TOTAL LENGTH
SPAN B	4	23.740m	94.960m
SPAN E	4	23.740m	94.960m

PROJECT NO. R-2552C

JOHNSTON COUNTY

STATION: 109+56.000 -L2LT- POT

SHEET 2 OF 3

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

STANDARD AASHTO TYPE IV PRESTRESSED CONCRETE GIRDER CONTINUOUS FOR LIVE LOAD SPAN B & E (LEFT LANE) STD. NO. PCG6SM

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-197
1			3			TOTAL SHEETS
2			4			431

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

NORTH CAROLINA PROFESSIONAL SEAL 14114 ENGINEER ROBERT C. LARSON

REFERENCE NO. BL-14

PLANS PREPARED BY:

MULKEY
ENGINEERS & CONSULTANTS
PO Box 33127
RALEIGH, N.C. 27636
(919) 851-1918
(919) 851-1918 (FAX)
WWW.MULKEYINC.COM

ASSEMBLED BY : W. B. ALLEN	DATE : 9/04		
CHECKED BY : R. C. LARSON	DATE : 10/04		
DRAWN BY : ELR 8/91	REV. 5/16/97	EEM/RGW	
CHECKED BY : GRP 8/91	REV. 7/17/98	RWW/LES	
	REV. 10/17/00	RWW/LES	

02/21/2005 07:03:51 AM n:\Structures\Site 1\Left Lane\R2552C_SD_02_01.dgn