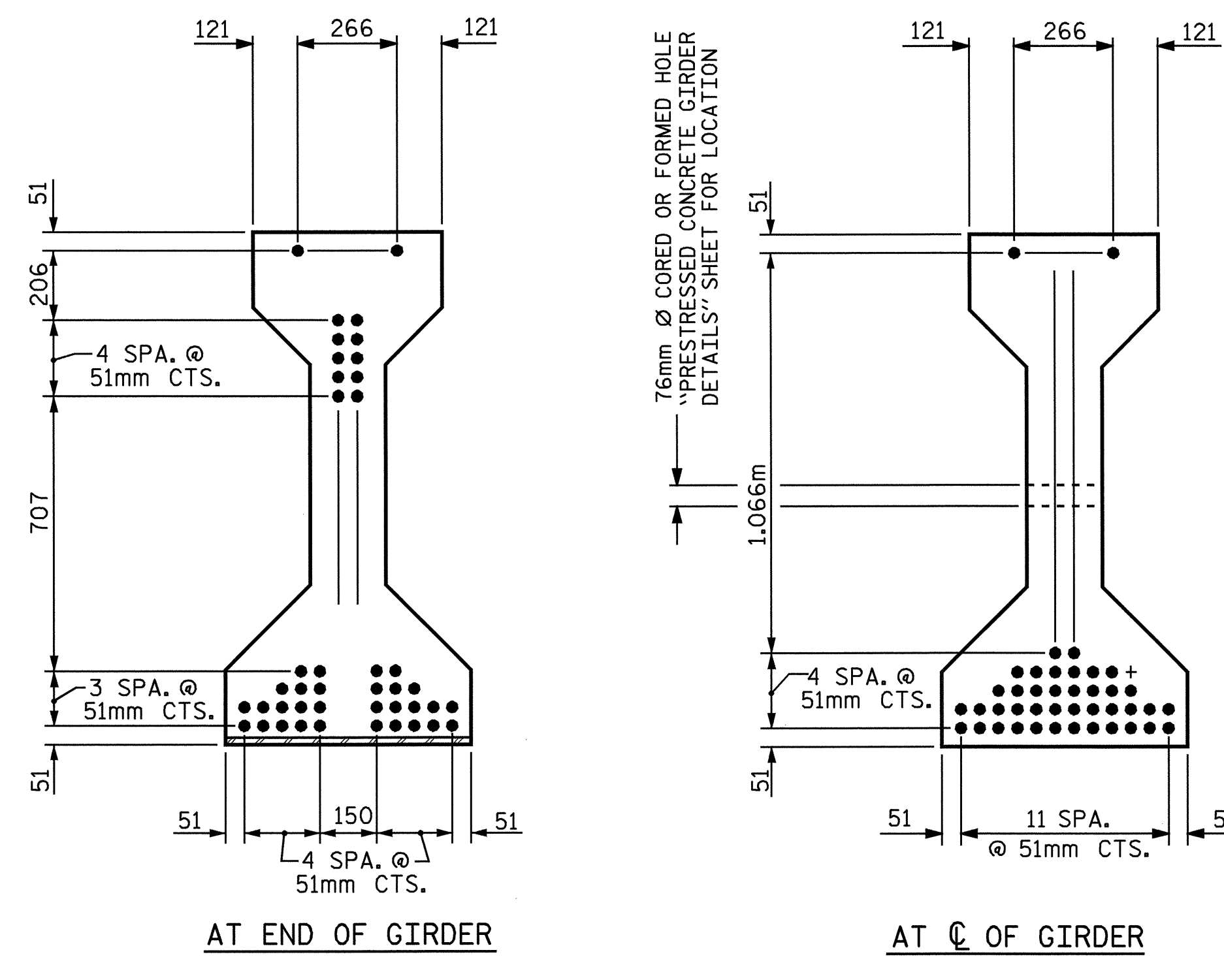
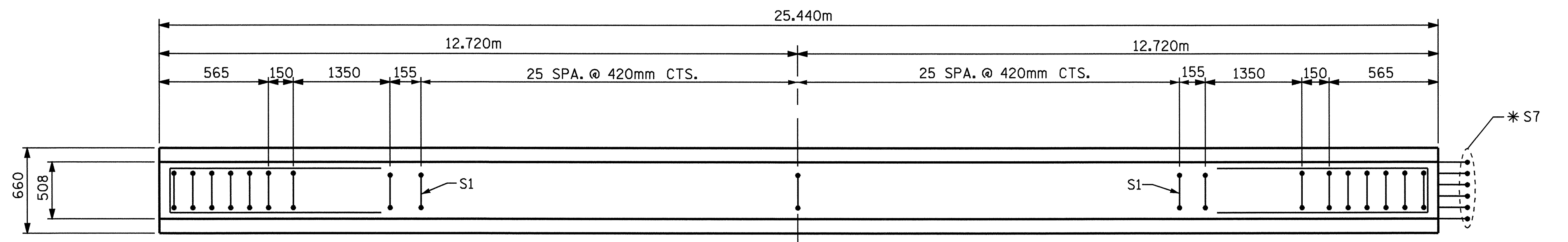


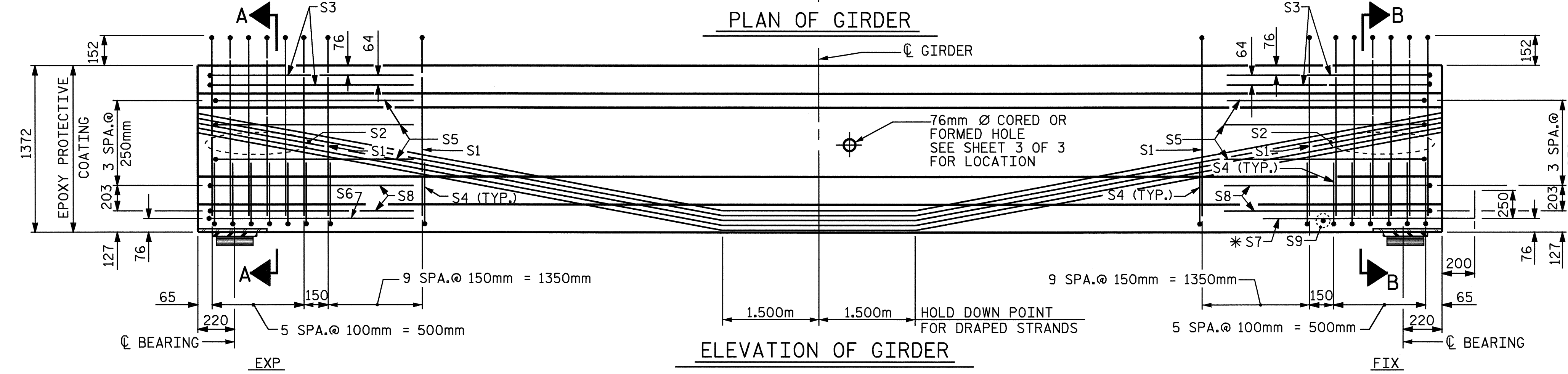
\* FOR S7 BARS, SEE  
DETAIL "A" OF  
PRESTRESSED  
CONCRETE GIRDER  
CONTINUOUS FOR LIVE  
LOAD DETAILS SHEET



12.70mm Ø LOW RELAXATION STRAND LAYOUT



PLAN OF GIRDER



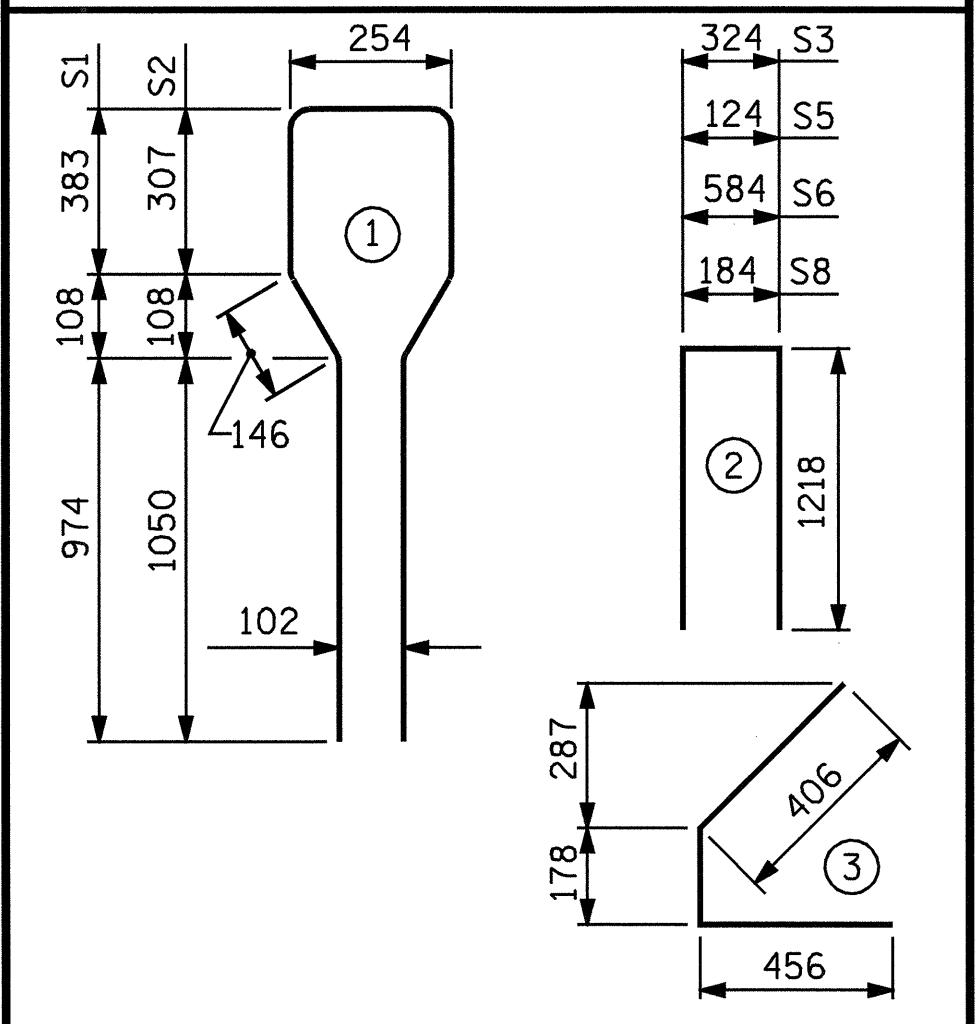
ELEVATION OF GIRDER

12.70mm Ø L. R. GRADE 270 STRANDS		
AREA (mm <sup>2</sup> )	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	71	#13	1	3260	230
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	6	#16	STR	1120	10
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



QUANTITIES FOR ONE GIRDER			
REINFORCING STEEL	44.8 MPa CONCRETE	12.70mm Ø L.R. STRANDS	
kg	m <sup>3</sup>	No.	
433	12.9	42	

GIRDERS REQUIRED		
NUMBER	LENGTH	TOTAL LENGTH
4	25.440m	101.760m

PROJECT NO. R-2568B  
DAVIDSON COUNTY  
 STATION: 61+31.500 -L-

SHEET 1 OF 3

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

STANDARD  
 AASHTO TYPE IV  
 PRESTRESSED CONCRETE GIRDER  
 CONTINUOUS FOR LIVE LOAD  
 SPAN A  
 RIGHT LANE



DEAD LOAD DEFLECTION TABLE FOR SPAN A												
12.70mm Ø LOW RELAXATION		GIRDERS 1 THRU 4										
TENTH POINTS		∅ BRG.	.1	.2	.3	.4	.5	.6	.7	.8	.9	∅ BRG.
CAMBER ( GIRDER ALONE IN PLACE )	↑	0	.026	.048	.066	.077	.081	.077	.066	.048	.026	0
* DEFLECTION DUE TO SUPERIMPOSED D.L.	↓	0	.011	.021	.029	.034	.036	.034	.029	.021	.011	0
FINAL CAMBER	↑	0	15	27	37	43	45	43	37	27	15	0

\* INCLUDES FUTURE WEARING SURFACE  
 ALL VALUES ARE SHOWN IN METERS, EXCEPT "FINAL CAMBER" WHICH IS SHOWN IN MILLIMETERS.

ASSEMBLED BY :	QT NGUYEN	DATE :	10-03
CHECKED BY :	V.X. NGUYEN	DATE :	7-04
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

REVISIONS						SHEET NO.	
NO.	BY:	DATE:	NO.	BY:	DATE:	S-42	
1			3			TOTAL SHEETS 64	
2			4				

STR. #2