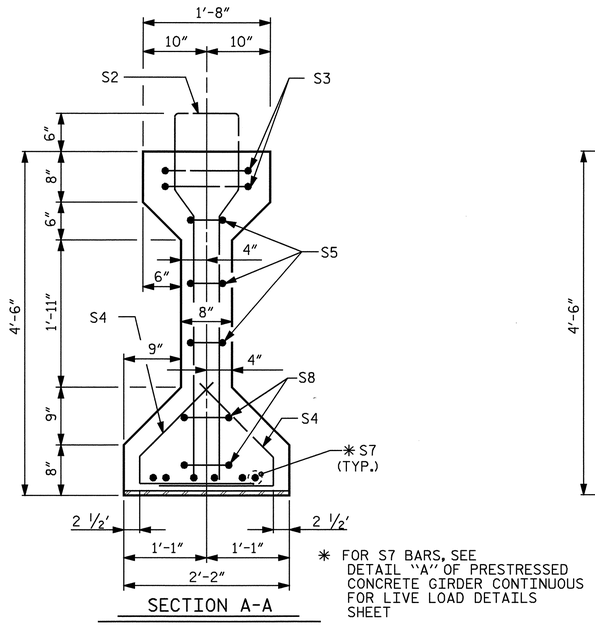
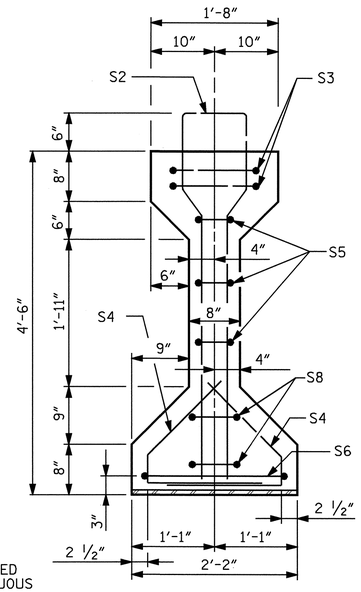
W:\squadj\b3865\tbarbour\Microstation\B-3865_sd_G*_01.dgn
ddavenport

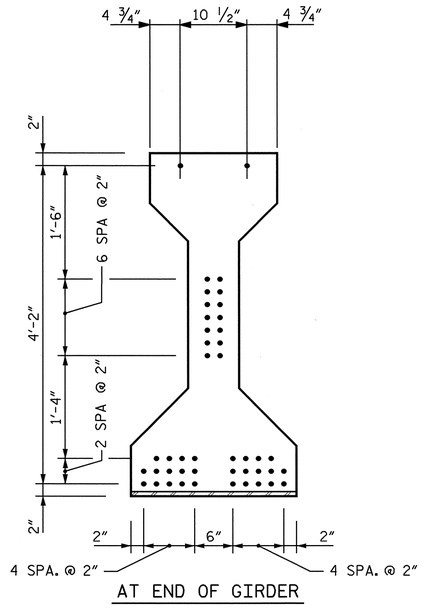


SECTION A-A

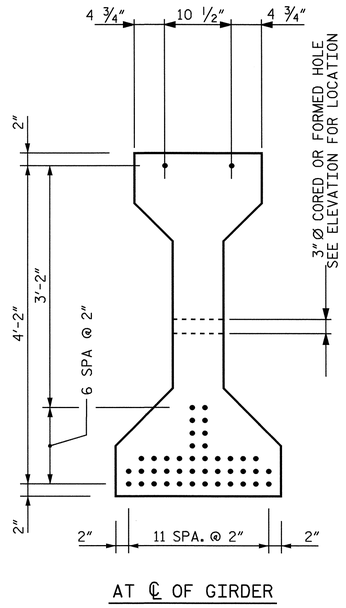
✱ FOR S7 BARS, SEE DETAIL "A" OF PRESTRESSED CONCRETE GIRDER CONTINUOUS FOR LIVE LOAD DETAILS SHEET



SECTION B-B

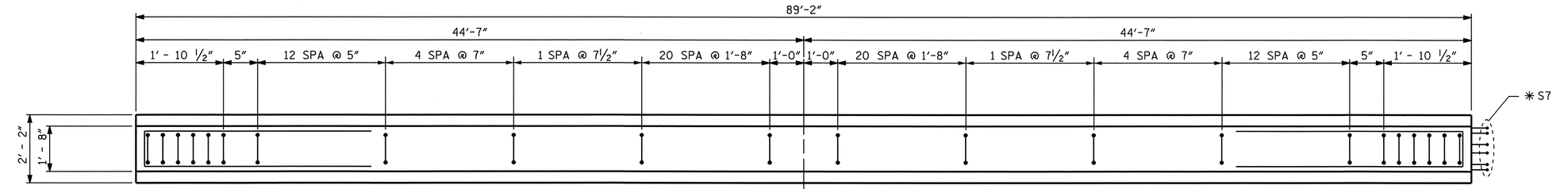


AT END OF GIRDER

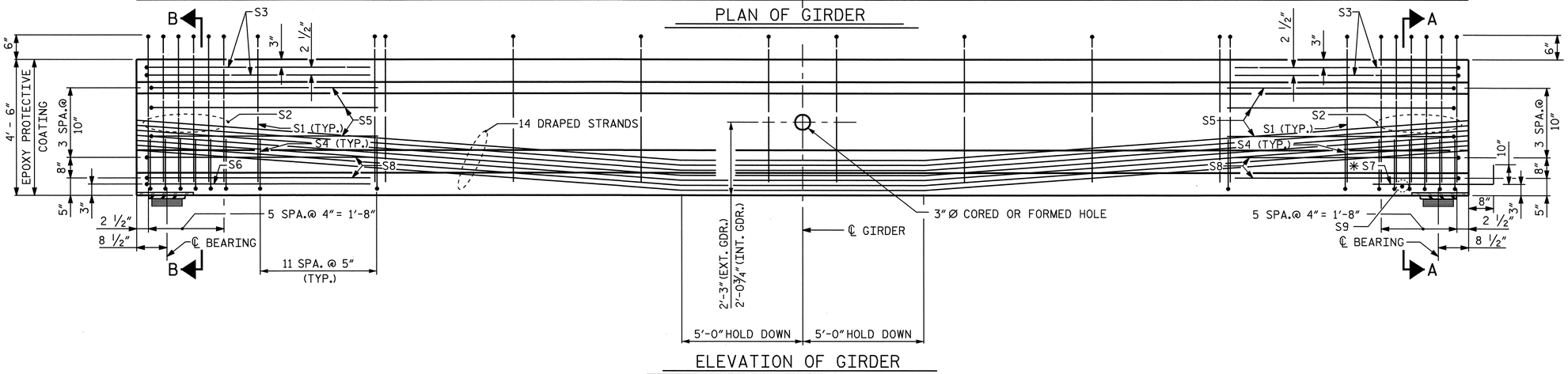


AT ℄ OF GIRDER

½"Ø LOW RELAXATION STRAND LAYOUT



PLAN OF GIRDER



ELEVATION OF GIRDER

½"Ø L. R. GRADE 270 STRANDS

AREA (SQUARE INCHES)	ULTIMATE STRENGTH (LBS. PER STRAND)	APPLIED PRESTRESS (LBS. PER STRAND)
0.153	41,300	30,980

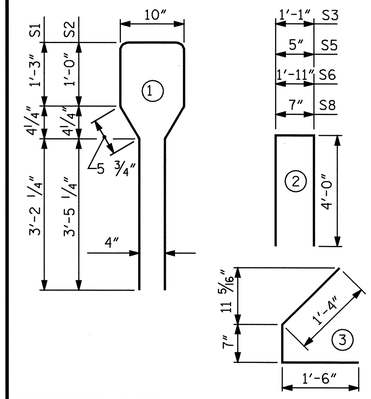
REINFORCING STEEL FOR ONE GIRDER

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	76	#4	1	10'-8"	542
S2	12	#6	1	10'-8"	192
S3	4	#4	2	9'-1"	24
S4	72	#4	3	3'-5"	164
S5	6	#4	2	8'-5"	34
S6	1	#4	2	9'-11"	7
✱S7	6	#5	STR	3'-8"	23
S8	4	#4	2	8'-7"	23
S9	1	#3	STR	1'-10"	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	7500.0 PSI CONCRETE	½"Ø L.R STRAND
	LB.	C.Y.	No.
SPAN D	1010	18.095	44

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
4	89.167	356.666

PROJECT NO. B-3865

JOHNSTON COUNTY

STATION: 21+48.00 -L-

SHEET 3 OF 4

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

AASHTO TYPE IV PRESTRESSED CONCRETE GIRDER CONTINUOUS FOR LIVE LOAD SPAN D

NORTH CAROLINA PROFESSIONAL SEAL 10730 ENGINEER DAVENPORT
4-9-03

ASSEMBLED BY : H. TOM BARBOUR	DATE : 3-26-03
CHECKED BY : D. G. ELY	DATE : 5-03
DRAWN BY : ARB 2/97	REV. 10/99 MAB/LES
CHECKED BY : EEM 2/97	

CADD STANDARD

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-13
1			3			TOTAL SHEETS
2			4			33