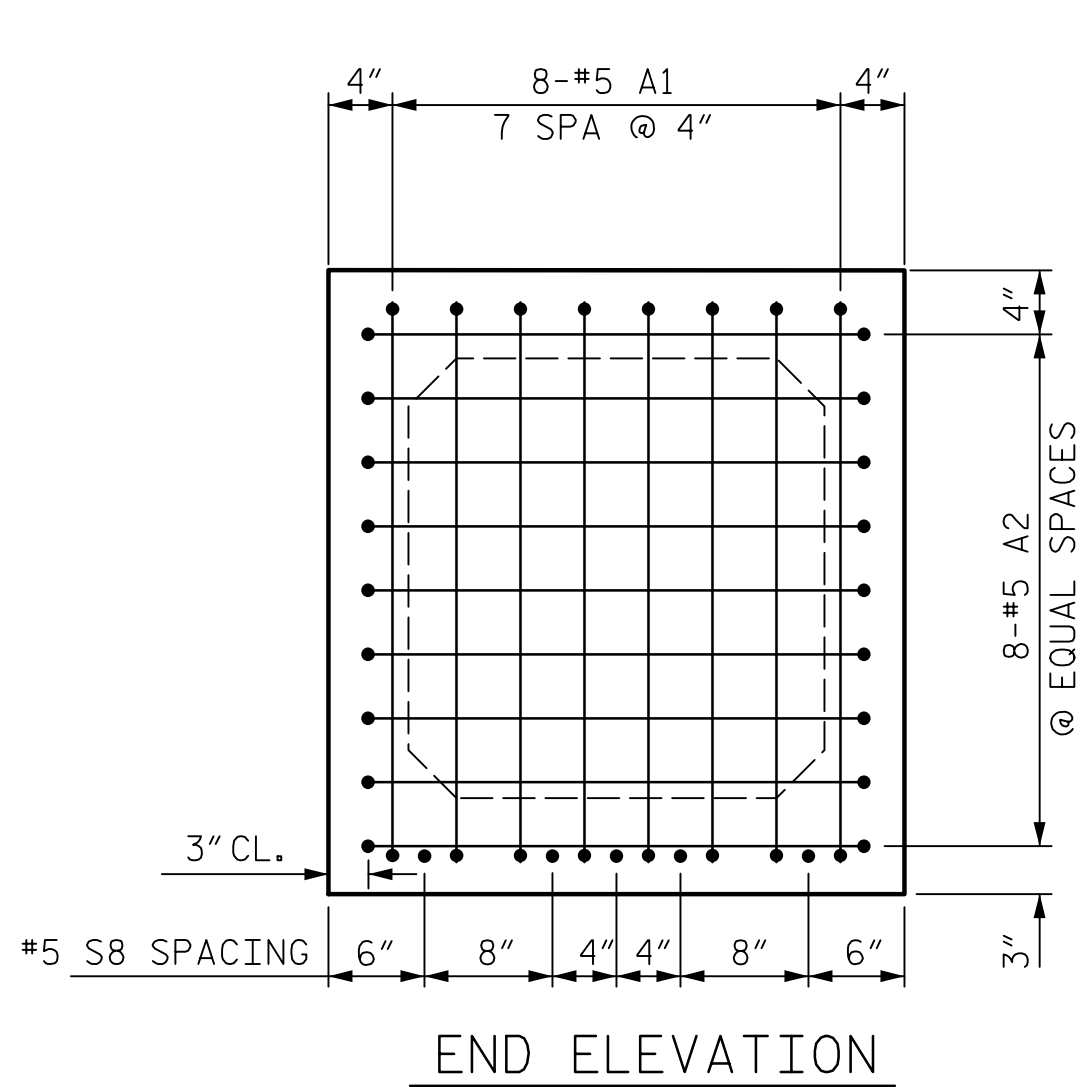
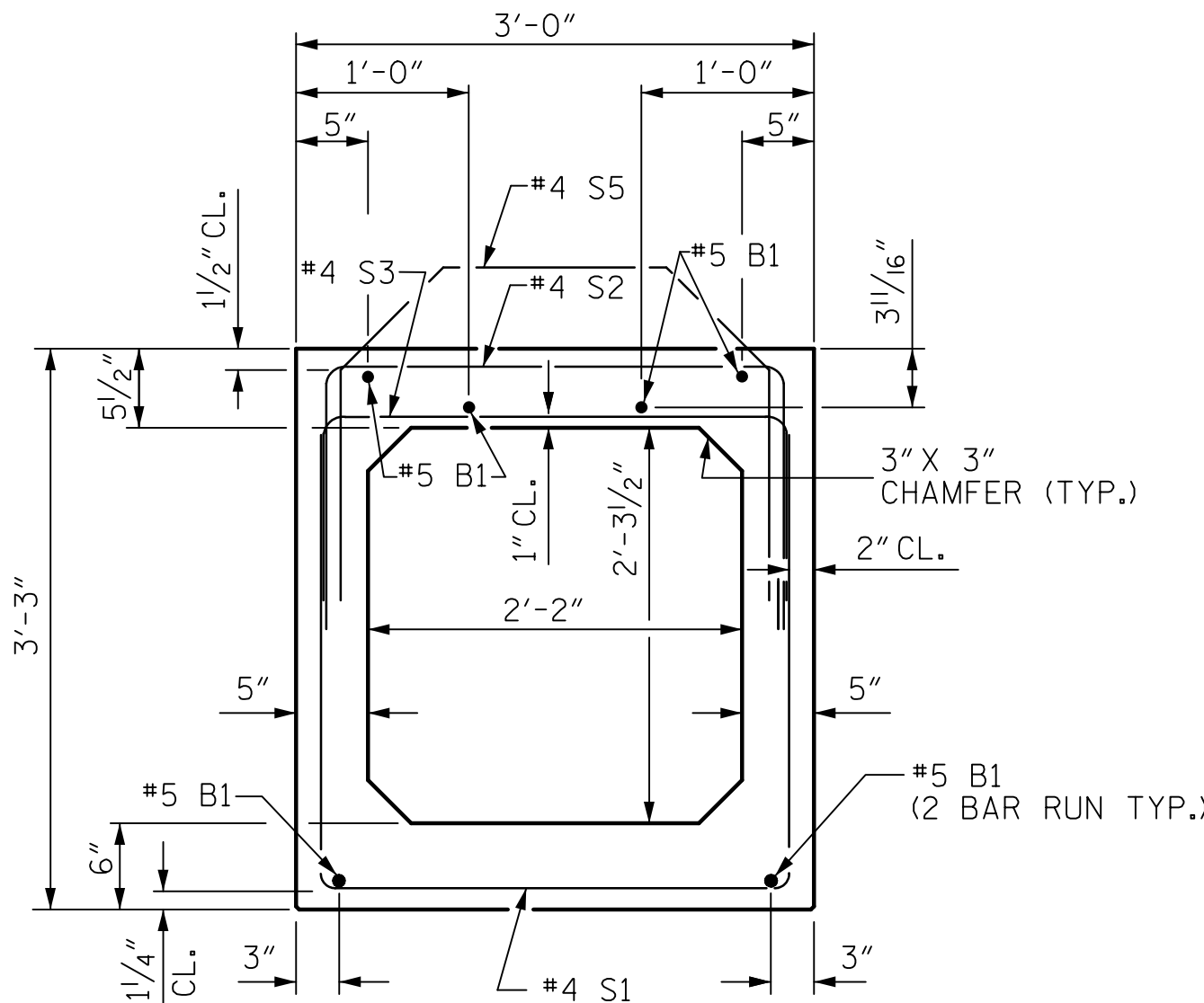


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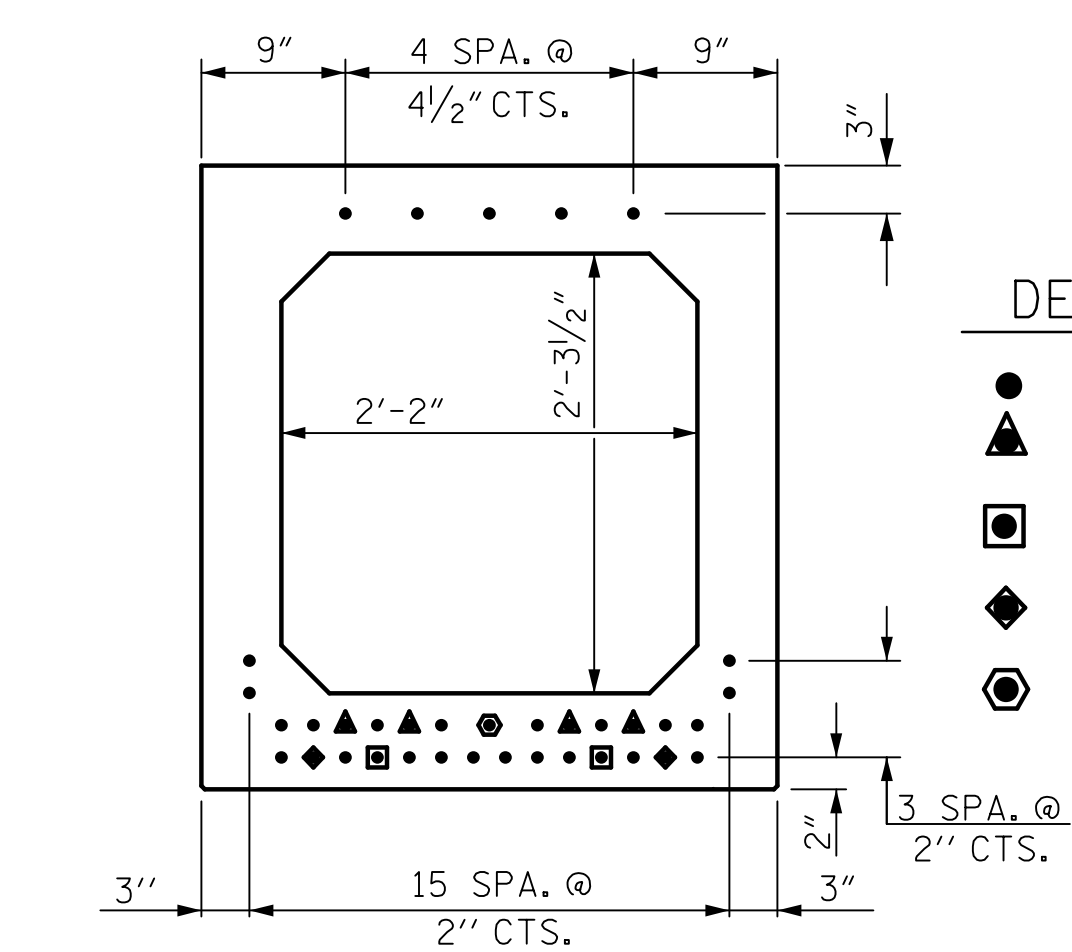
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END ELEVATION
SHOWING PLACEMENT OF #5 "A" BARS
(STRAND LAYOUT NOT SHOWN)



BOX GIRDER SECTION
(STRAND LAYOUT NOT SHOWN)



TYPICAL STRAND LOCATION
(35 STRANDS REQUIRED)

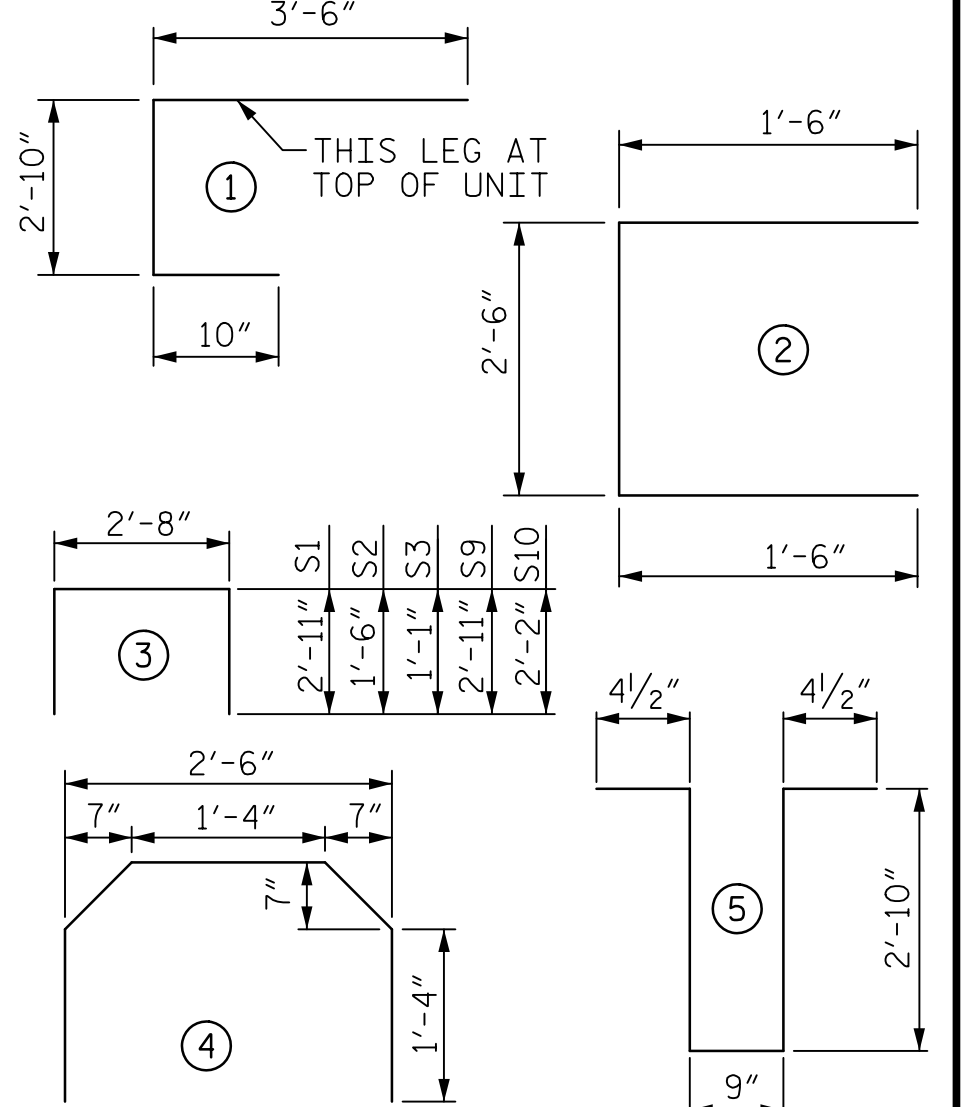
0.6" Ø LOW RELAXATION STRAND LAYOUT

DEBONDING LEGEND

- FULLY BONDED STRANDS
- ▲ STRANDS DEBONDED FOR 2'-0" FROM END OF GIRDER
- STRANDS DEBONDED FOR 4'-0" FROM END OF GIRDER
- ◆ STRANDS DEBONDED FOR 6'-0" FROM END OF GIRDER
- ⬡ OPTIONAL STRAND FULLY DEBONDED

0.6" Ø L. R. GRADE 270 STRANDS		
AREA (SQUARE INCHES)	ULTIMATE STRENGTH (LBS. PER STRAND)	APPLIED PRESTRESS (LBS. PER STRAND)
0.217	58,600	43,950

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT

BILL OF MATERIAL FOR ONE BOX GIRDER SECTION

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
A1	16	#5	1	7'-2"	120
A2	28	#5	2	5'-6"	161
B1	12	#5	STR	34'-2"	428
K1	3	#4	5	7'-2"	14
K2	4	#4	STR	2'-8"	7
S1	66	#4	3	8'-6"	375
S2	66	#4	3	5'-8"	250
S3	74	#4	3	4'-10"	239
S4	10	#7	STR.	6'-0"	123
S5	80	#4	4	5'-8"	303
* S8	5	#5	STR	3'-9"	20
S9	18	#6	3	8'-6"	230
S10	18	#6	3	7'-0"	189

* NOTE: S8 BARS SHALL BE BENT BEFORE SHIPMENT,
HEAT BENDING SHALL NOT BE ALLOWED

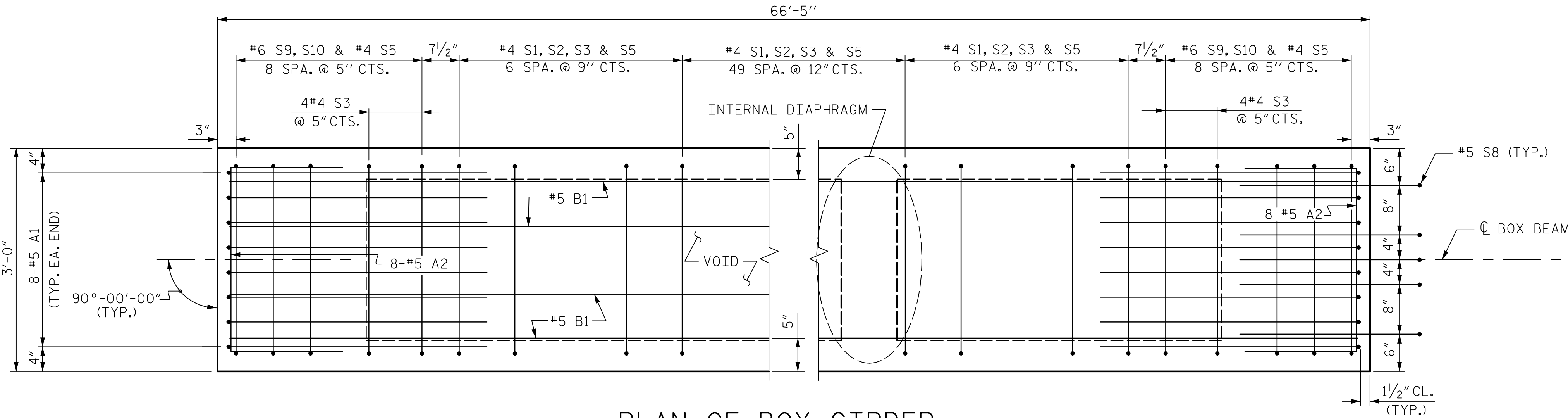
REINFORCING STEEL	2459	LBS.
8000 P.S.I. CONCRETE	12.8	CU. YDS.
0.6" Ø L.R. STRANDS	No.	35

GIRDERS REQUIRED

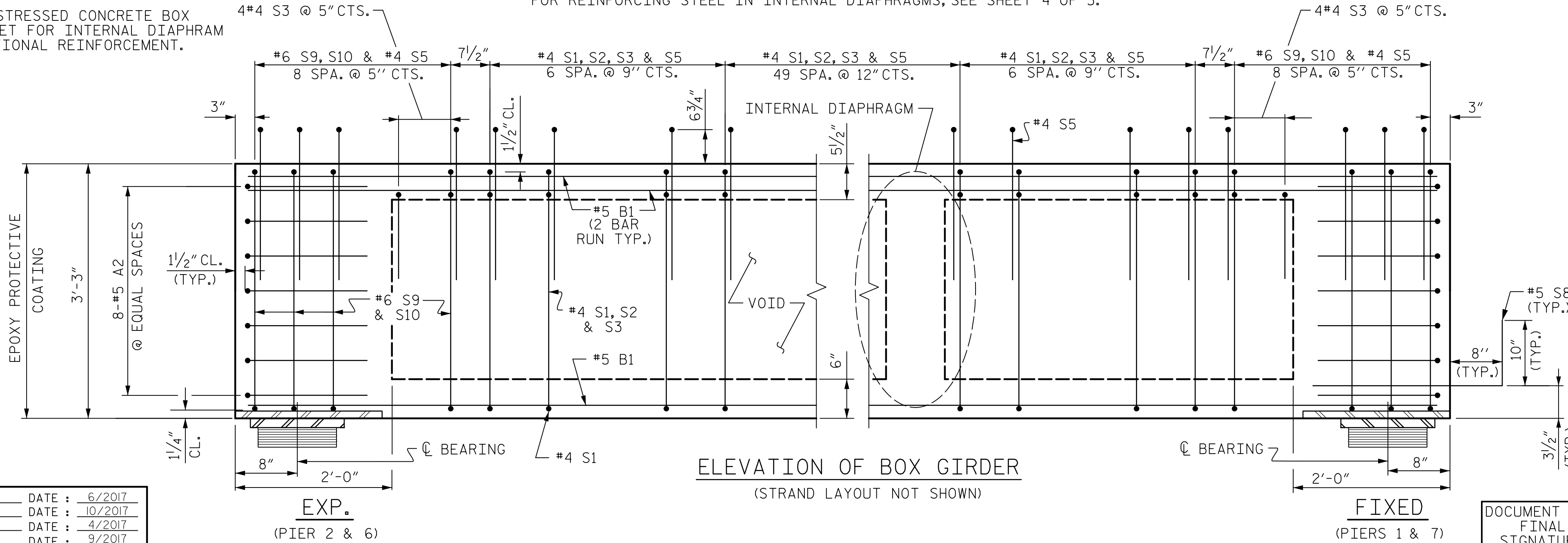
	NUMBER	LENGTH	TOTAL LENGTH
SPAN B	4	66'-5"	265'-8"
SPAN G	4	66'-5"	265'-8"

PLAN OF BOX GIRDER

FOR LOCATION OF INTERNAL DIAPHRAGMS, SEE FRAMING PLAN.
FOR REINFORCING STEEL IN INTERNAL DIAPHRAGMS, SEE SHEET 4 OF 5.



*SEE 3'-0" X 3'-3" PRESTRESSED CONCRETE BOX
GIRDER DETAILS SHEET FOR INTERNAL DIAPHRAGM
DETAILS WITH ADDITIONAL REINFORCEMENT.



ELEVATION OF BOX GIRDER
(STRAND LAYOUT NOT SHOWN)

FIXED
(PIERS 1 & 7)

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

DRAWN BY : .K. DONALD	DATE : 6/2017
CHECKED BY : J. SLOAN	DATE : 10/2017
DESIGNED BY : K. COMPTON	DATE : 4/2017
DESIGN CHECKED BY : K. DONALD	DATE : 9/2017

EXP.
(PIER 2 & 6)

PROJECT NO. B-4974

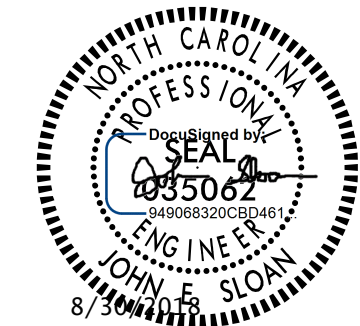
STANLY/MONTGOMERY COUNTY

STATION: 339+86.39 -L-

SHEET 2 OF 5

AECOM

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(919) 854-6200 www.aecom.com
AECOM License No. F-0342



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUPERSTRUCTURE

3'-0" X 3'-3"
PRESTRESSED CONCRETE
BOX GIRDER
SPANS B & G

REVISIONS

NO.	BY:	DATE:	NO.	BY:	DATE:	SHEET NO.
1			3			S-27
2			4			TOTAL SHEETS 148