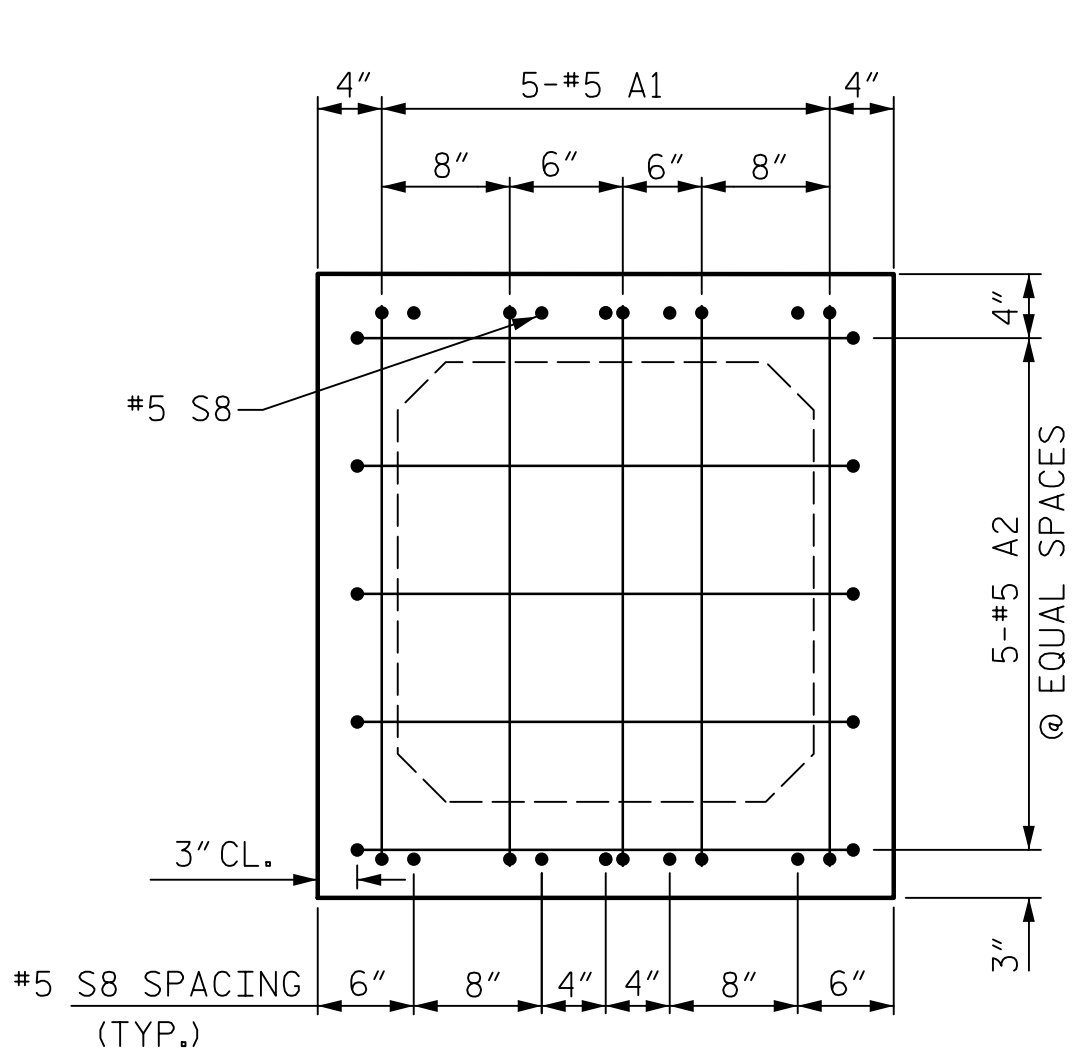


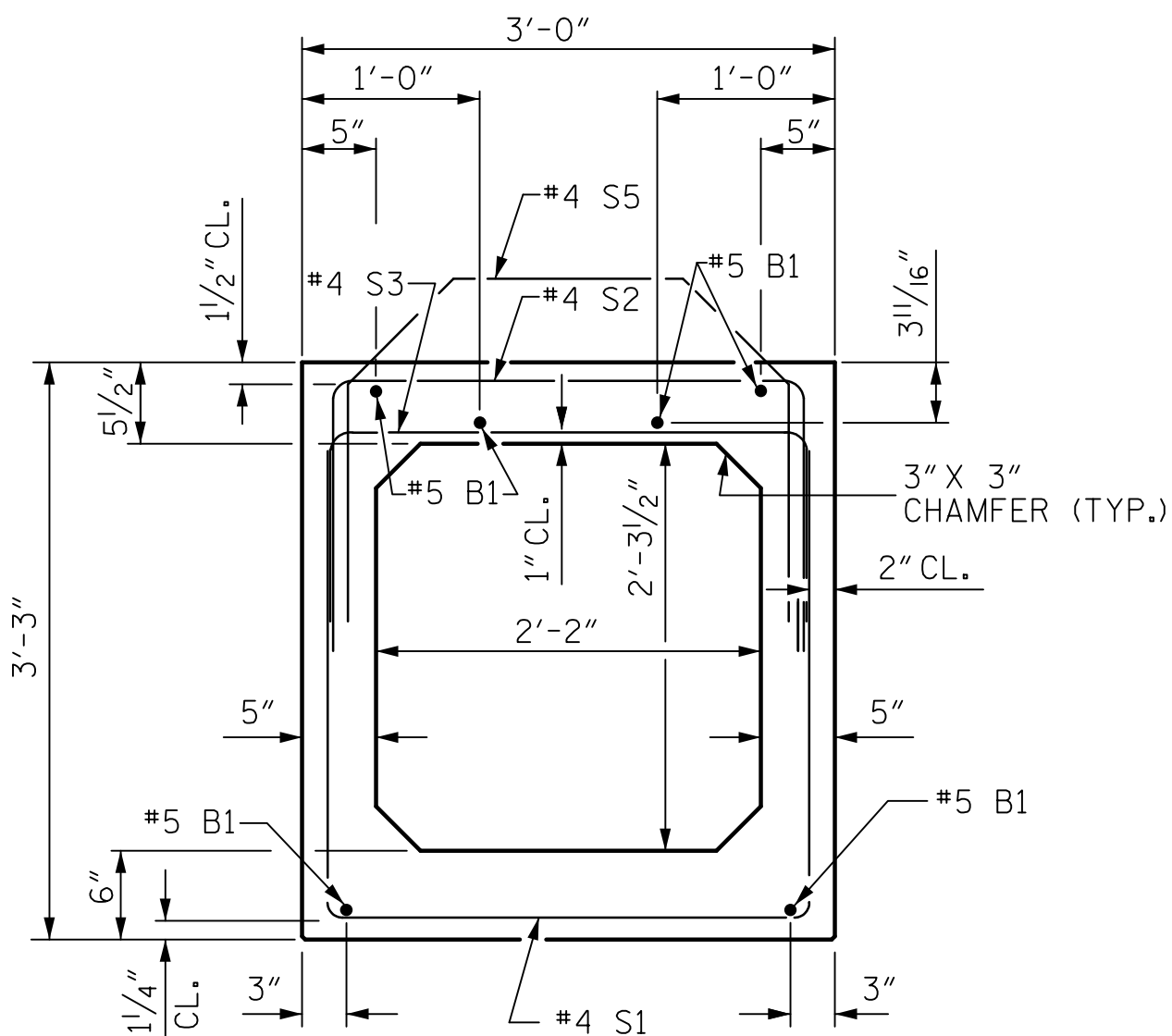
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DON: 8/29/2018 2:31:42 PM



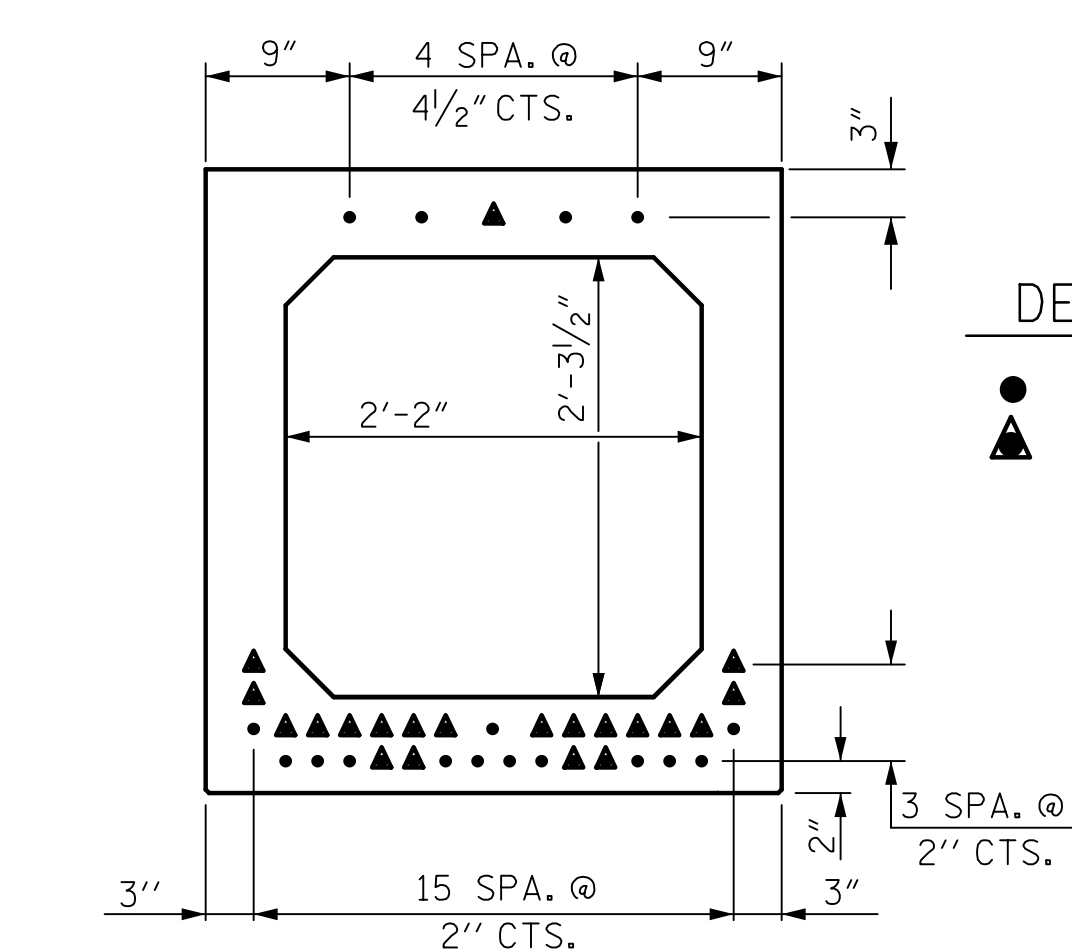
END ELEVATION

SHOWING PLACEMENT OF #5 "A" BARS
(STRAND LAYOUT NOT SHOWN.)
SPACING OF "A" BARS MAY BE ADJUSTED
SLIGHTLY TO AVOID CONFLICT WITH
OTHER REINFORCING.



BOX GIRDER SECTION

(STRAND LAYOUT NOT SHOWN)



TYPICAL STRAND LOCATION

(17 STRANDS REQUIRED)

0.6" Ø LOW RELAXATION STRAND LAYOUT

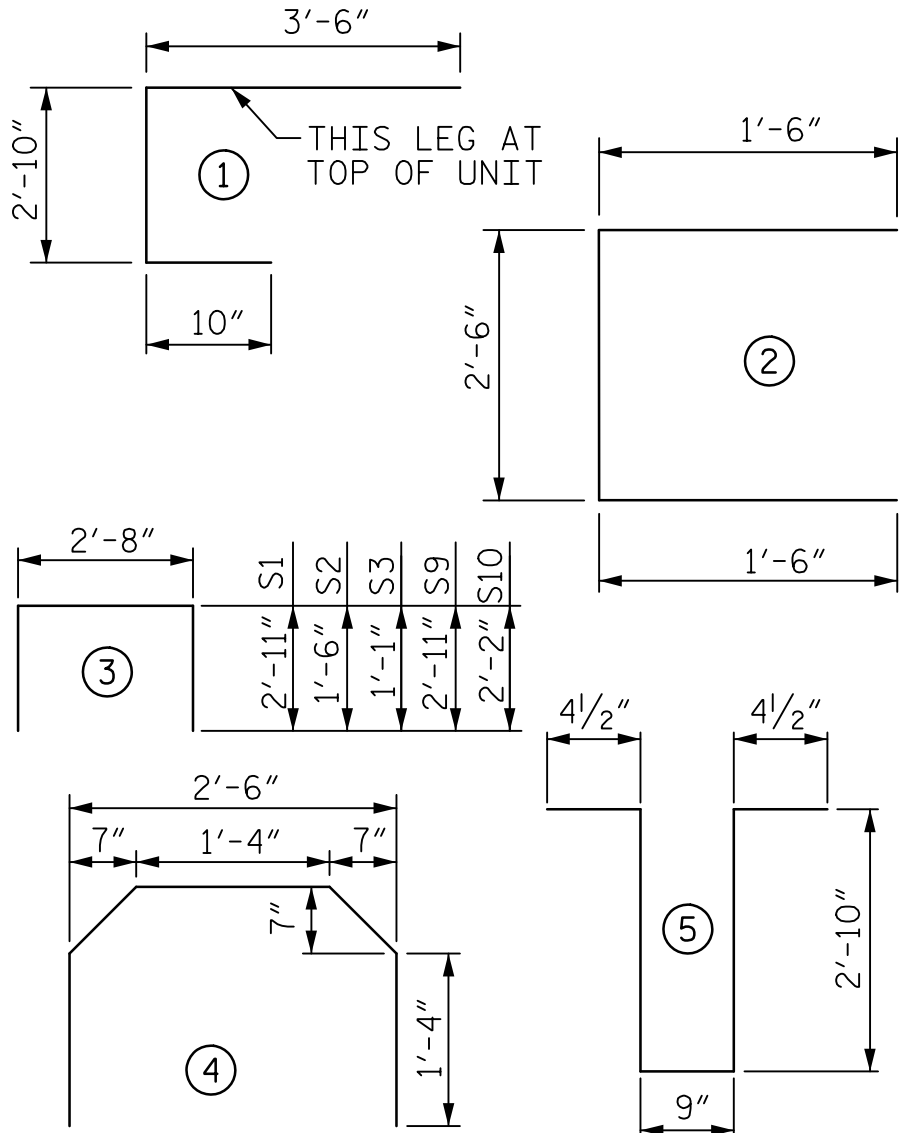
DEBONDING LEGEND

- FULLY BONDED STRANDS
- ▲ OPTIONAL STRANDS 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	10	#5	1	7'-2"	75
A2	16	#5	2	5'-6"	92
B1	6	#5	STR	40'-3"	252
K1	3	#4	5	7'-2"	14
K2	2	#4	STR	2'-8"	4
S1	38	#4	3	8'-6"	216
S2	38	#4	3	5'-8"	144
S3	44	#4	3	4'-10"	142
S4	10	#7	STR.	6'-0"	123
S5	50	#4	4	5'-8"	189
* S8	15	#5	STR.	3'-9"	59
S9	14	#6	3	8'-6"	179
S10	14	#6	3	7'-0"	147

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

REINFORCING STEEL	1636	LBS.
5000 P.S.I. CONCRETE	8.1	CU. YDS.
0.6" Ø L.R. STRANDS	No.	17

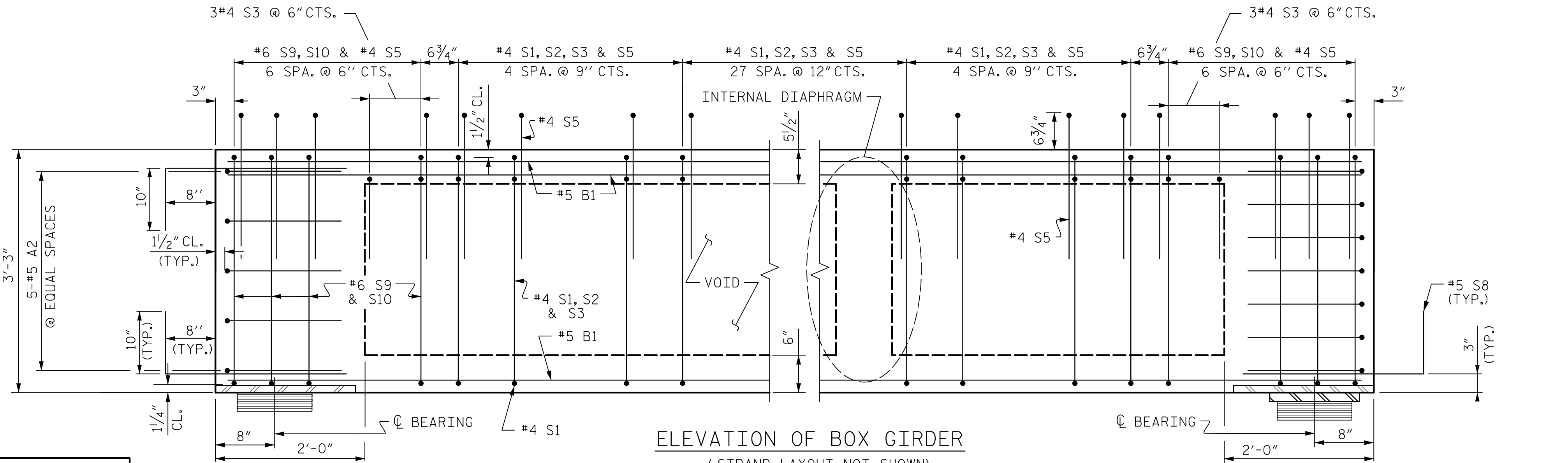
GIRDERS REQUIRED

	NUMBER	LENGTH	TOTAL LENGTH
SPAN A	4	40'-7 1/2"	162'-6"
SPAN I	4	40'-7 1/2"	162'-6"

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

PLAN OF BOX GIRDER

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

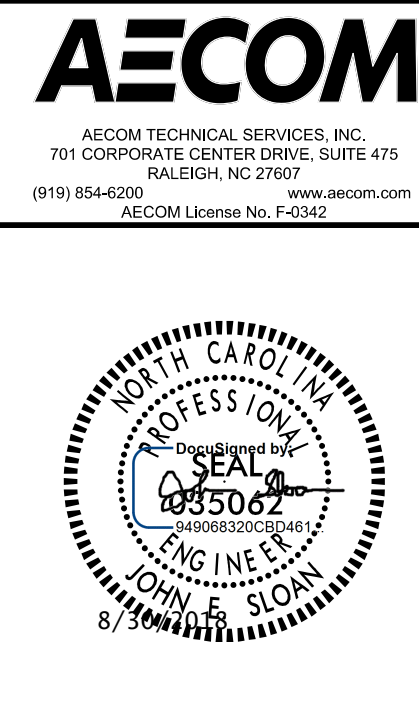


ELEVATION OF BOX GIRDER

(STRAND LAYOUT NOT SHOWN)

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

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED



PROJECT NO. B-4974

STANLY/MONTGOMERY COUNTY

STATION: 339+86.39 -L-

SHEET 1 OF 5

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUPERSTRUCTURE

3'-0" X 3'-3"
PRESTRESSED CONCRETE
BOX GIRDER
SPANS A & I

REVISIONS			SHEET NO.		
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
TOTAL SHEETS					148