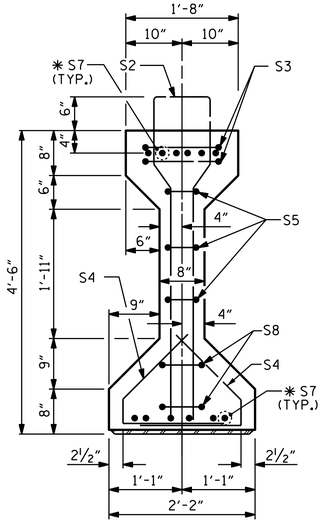
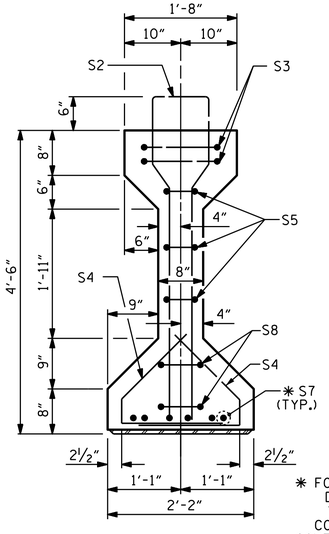
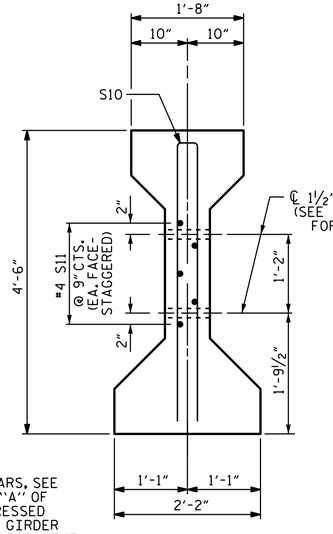



## SECTION A-A



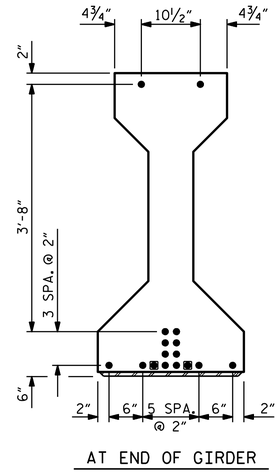

## SECTION B-B

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

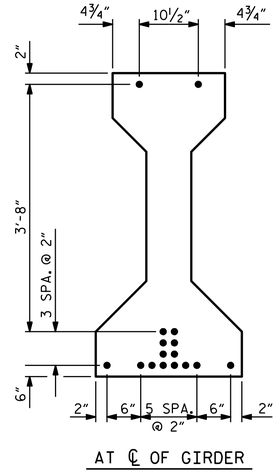



## SECTION C-C

(S1 BARS NOT SHOWN)




AT END OF GIRDER




AT ℄ OF GIRDER

## 0.6" Ø LOW RELAXATION STRAND LAYOUT

● FULLY BONDED STRANDS
▣ STRANDS DEBONDED FOR 12'-0" FROM END OF GIRDER

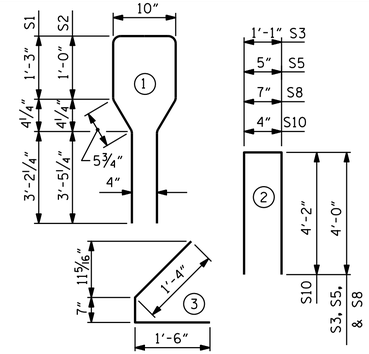
| 0.6" Ø L. R. GRADE 270 STRANDS | | |
|---|---|---|
| AREA (SQUARE INCHES) | ULTIMATE STRENGTH (LBS. PER STRAND) | APPLIED PRESTRESS (LBS. PER STRAND) |
| 0.217 | 58,600 | 43,950 |

### REINFORCING STEEL FOR ONE GIRDER

| BAR | NUMBER | SIZE | TYPE | LENGTH | WEIGHT |
|---|---|---|---|---|---|
| S1 | 80 | #4 | 1 | 10'-8" | 570 |
| 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 |
| ✱S7 | 18 | #5 | STR | 3'-8" | 69 |
| S8 | 4 | #4 | 2 | 8'-7" | 23 |
| S9 | 2 | #3 | STR | 1'-10" | 1 |
| S10 | 2 | #5 | 2 | 8'-8" | 18 |
| S11 | 5 | #4 | STR | 7'-0" | 23 |
| S13 | 1 | #3 | STR | 1'-4" | 1 |

✱NOTE: S7 BARS SHALL BE BENT BEFORE SHIPMENT. HEAT BENDING SHALL NOT BE ALLOWED.

### BAR TYPES



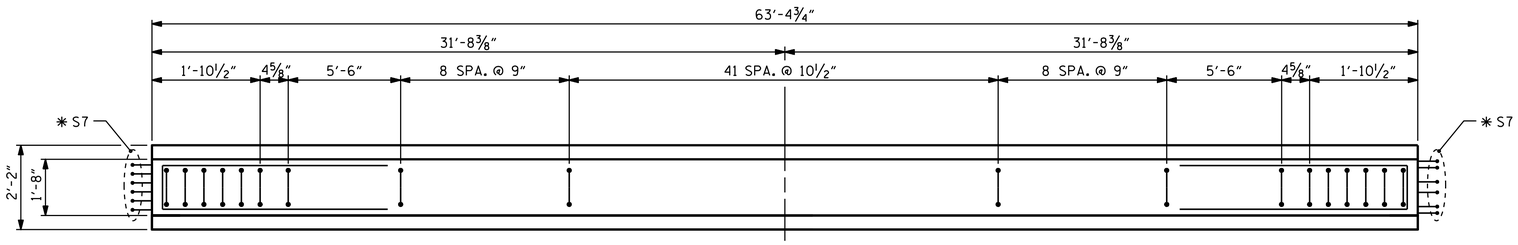

ALL BAR DIMENSIONS ARE OUT-TO-OUT.

### QUANTITIES FOR ONE GIRDER

| REINFORCING STEEL | 5,000 PSI CONCRETE | 0.6" Ø L. R. STRANDS |
|---|---|---|
| LBS. | C.Y. | No. |
| 1,119 | 12.9 | 16 |

### GIRDERS REQUIRED

| NUMBER | LENGTH | TOTAL LENGTH |
|---|---|---|
| 9 | 63'-4¾" | 570'-6¾" |

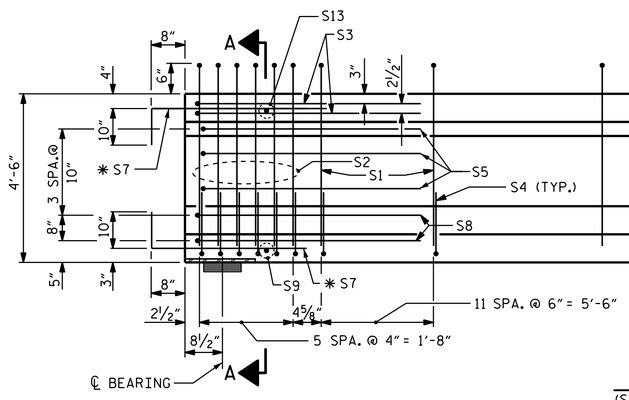



## PLAN OF GIRDER

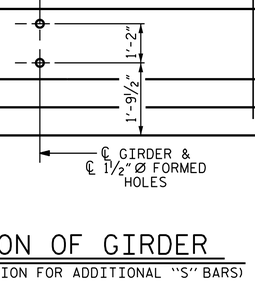


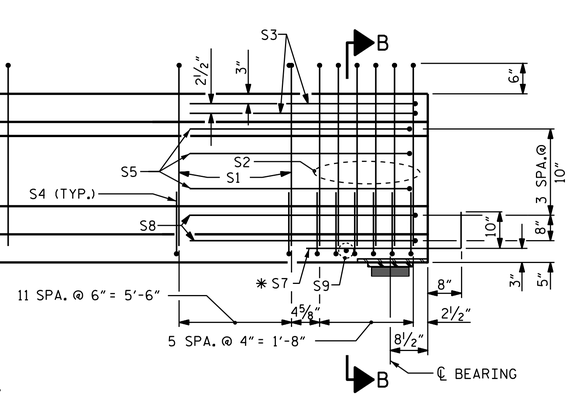

## PARTIAL ELEVATION

SHOWING INTERMEDIATE DIAPHRAGM REINFORCING STEEL FOR SPAN A GIRDERS.




## INTEGRAL END BENT




## ELEVATION OF GIRDER

(SEE PARTIAL ELEVATION FOR ADDITIONAL "S" BARS)

## FIX

PROJECT NO. U-2579C
FORSYTH COUNTY
STATION: 473+70.00 -L-

SHEET 1 OF 4

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

# STANDARD AASHTO TYPE IV PRESTRESSED CONCRETE GIRDER CONTINUOUS FOR LIVE LOAD SPAN A (LEFT LANE)

NORTH CAROLINA PROFESSIONAL SEAL 20125 ENGINEER MARSHALL G. CREEK, JR.
Docusigned by: Marshall G. Creek, Jr.
6549D6EBAA3B405...
8/1/2017

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

| REVISIONS | | | | | | SHEET NO. |
|---|---|---|---|---|---|---|
| NO. | BY: | DATE: | NO. | BY: | DATE: | S3-11 |
| 1 | | | 3 | | | TOTAL SHEETS |
| 2 | | | 4 | | | 33 |

STR. #3 STD. NO. PCG6

| | | | |
|---|---|---|---|
| ASSEMBLED BY : H. A. LOCKLEAR | DATE : 12-15 | REV. 5/1/06R | TLA/GM |
| CHECKED BY : N. D'AIUTO | DATE : 3/17/16 | REV. 10/1/11 | MAA/GM |
| DRAWN BY : ELR 8/91 | | REV. 1/15 | MAA/TMG |
| CHECKED BY : GRP 8/91 | | | |

01-AUG-2017 11:41
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