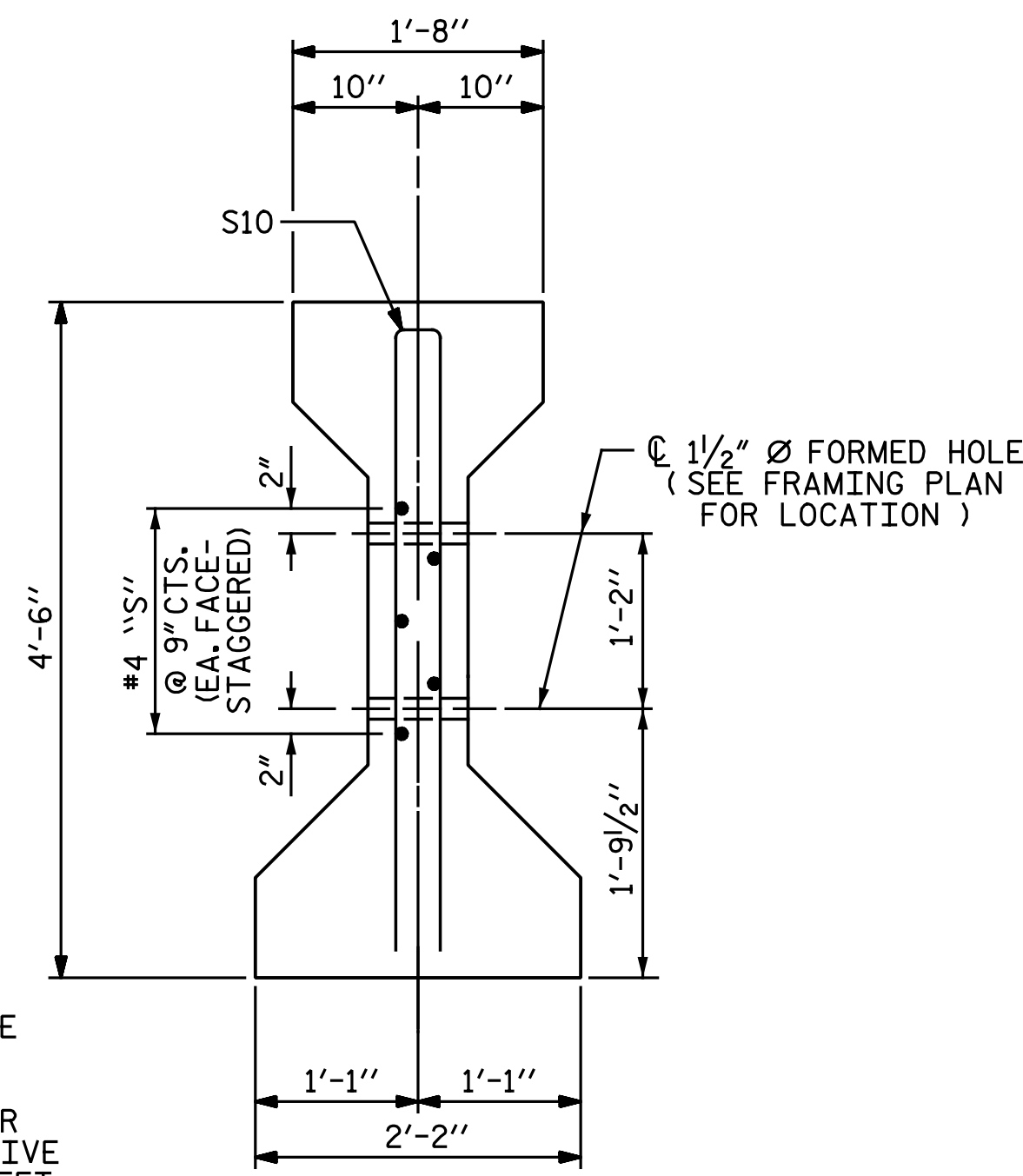
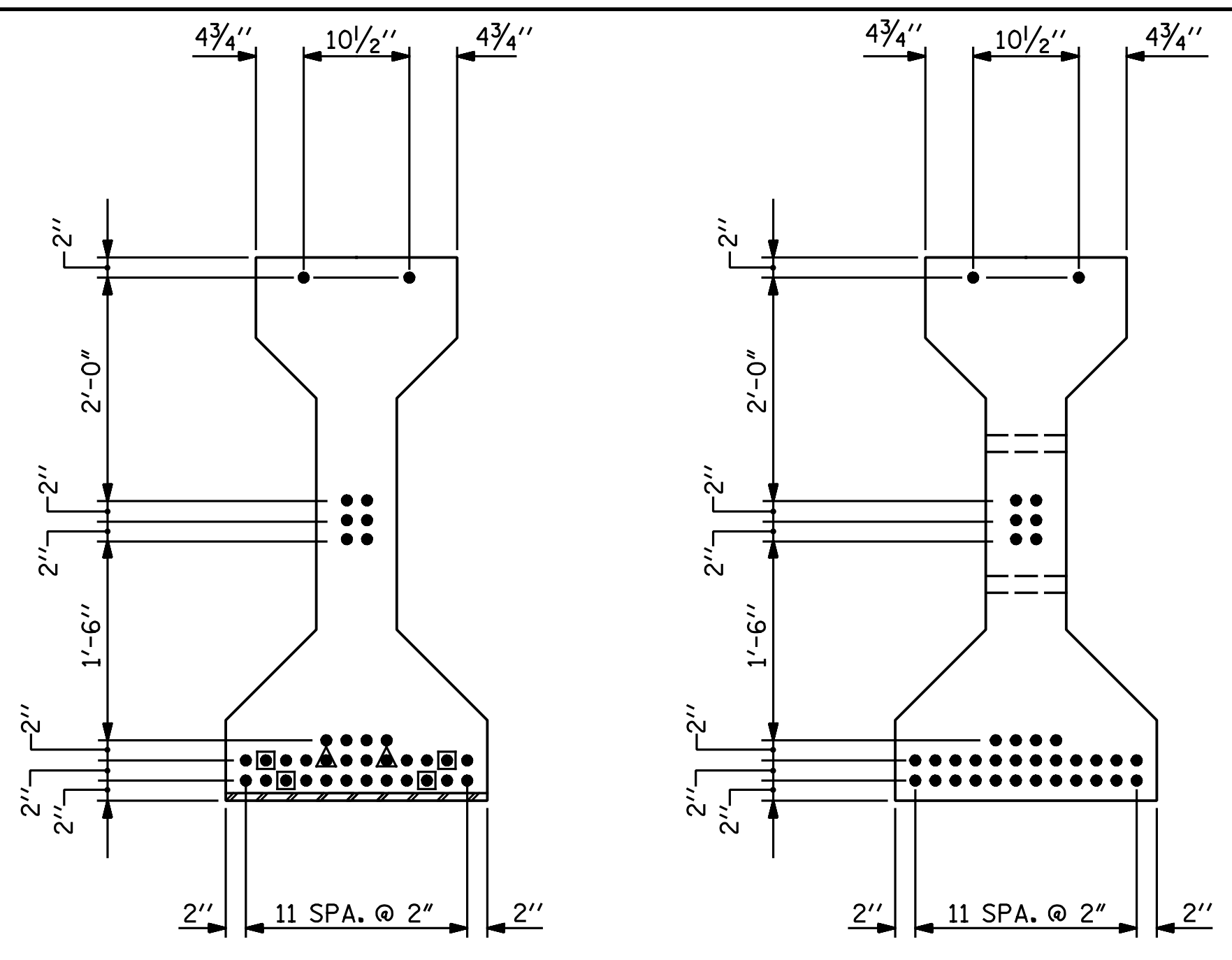


SECTION A-A

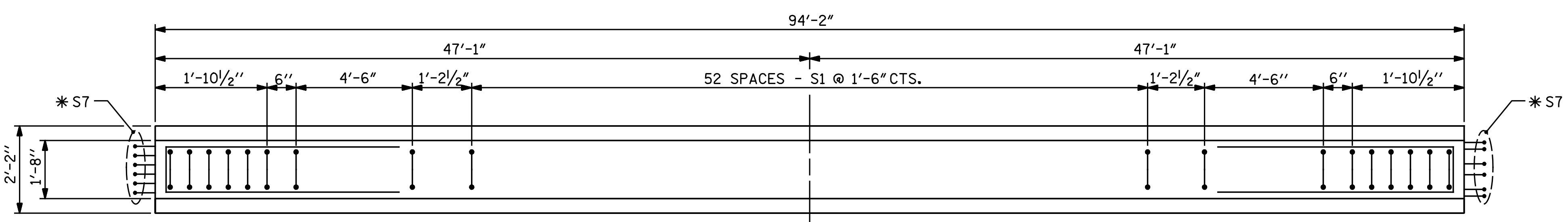


SECTION C-C  
(S1 BARS NOT SHOWN)

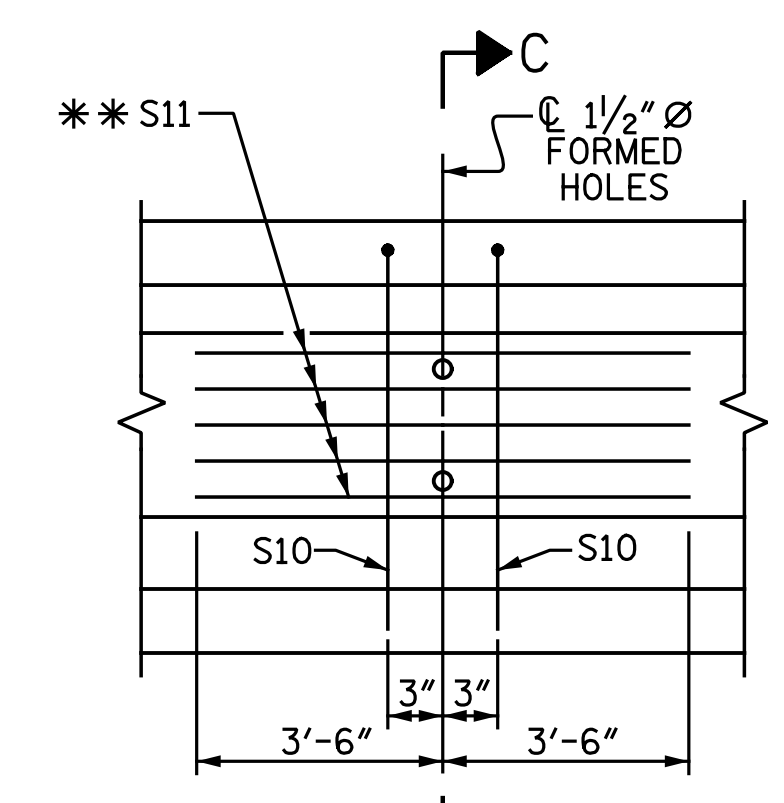


0.6" Ø LOW RELAXATION STRAND LAYOUT

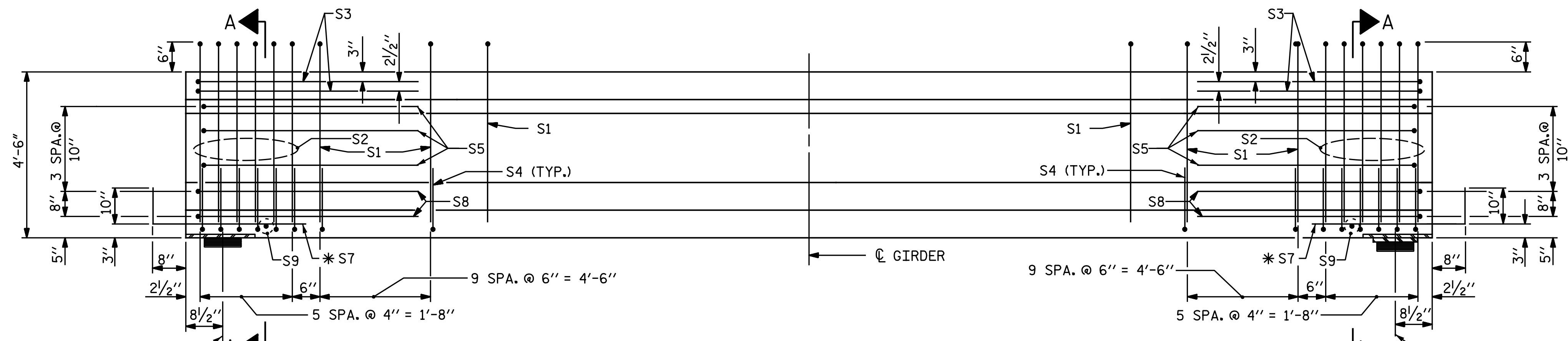
- STRANDS DEBONDED FOR 4'-0" FROM END OF GIRDER
- ▲ STRANDS DEBONDED FOR 6'-0" FROM END OF GIRDER



PLAN OF GIRDER



PARTIAL ELEVATION  
SHOWING INTERMEDIATE DIAPHRAGM  
REINFORCING STEEL FOR GIRDER NOS. 1-5  
\*\* S11 BARS MAY BE SHIFTED SLIGHTLY  
AS NEEDED TO AVOID STRANDS.



ELEVATION OF GIRDER  
(SEE PARTIAL ELEVATION FOR ADDITIONAL "S" BARS)

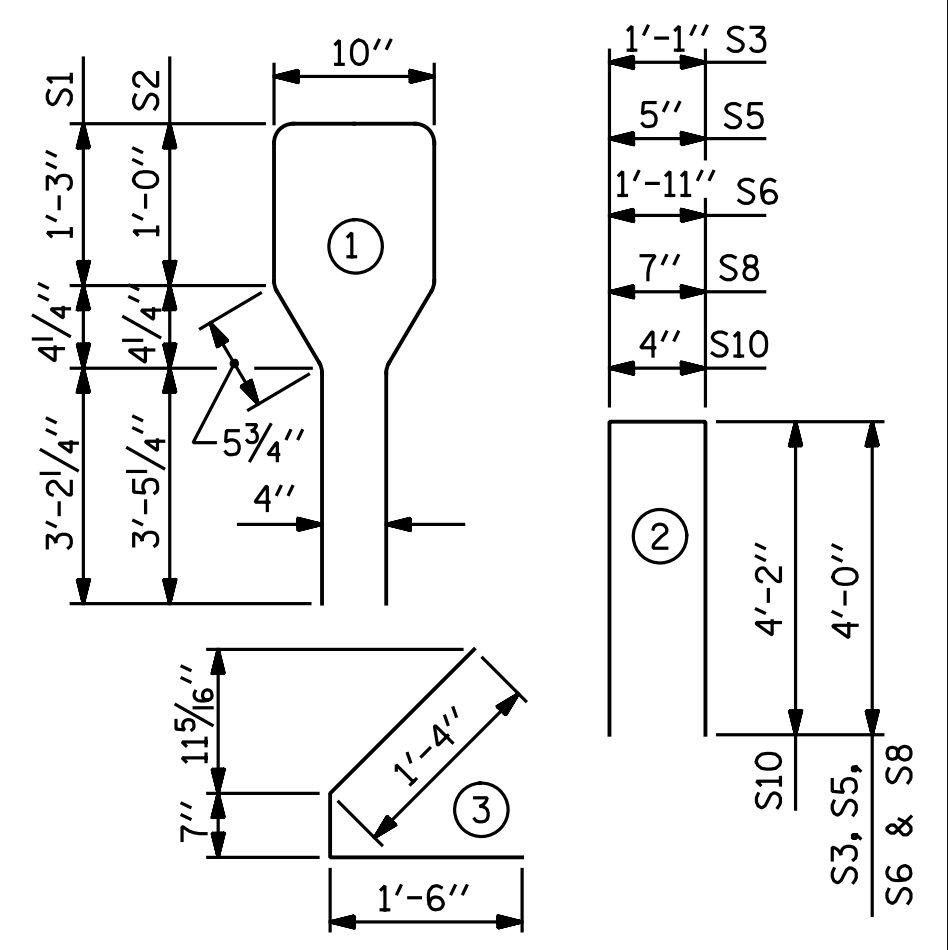
| 0.6" Ø L. R. GRADE 270 STRANDS |   |   |
|--------------------------------|---|---|
| AREA<br>(SQUARE INCHES)        | ULTIMATE<br>STRENGTH<br>(LBS. PER STRAND) | APPLIED<br>PRESTRESS<br>(LBS. PER STRAND) |
| 0.217                          | 58,600                                    | 43,950      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

| REINFORCING STEEL FOR ONE GIRDER |        |      |      |        |        |
|----------------------------------|--------|------|------|--------|--------|
| BAR                              | NUMBER | SIZE | TYPE | LENGTH | WEIGHT |
| S1                               | 73     | #4   | 1    | 10'-8" | 520    |
| S2                               | 12     | #6   | 1    | 10'-8" | 192    |
| S3                               | 4      | #4   | 2    | 9'-1"  | 24     |
| S4                               | 64     | #4   | 3    | 3'-5"  | 146    |
| S5                               | 6      | #4   | 2    | 8'-5"  | 34     |
| * S7                             | 12     | #5   | STR  | 3'-8"  | 46     |
| 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     |

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

BAR TYPES

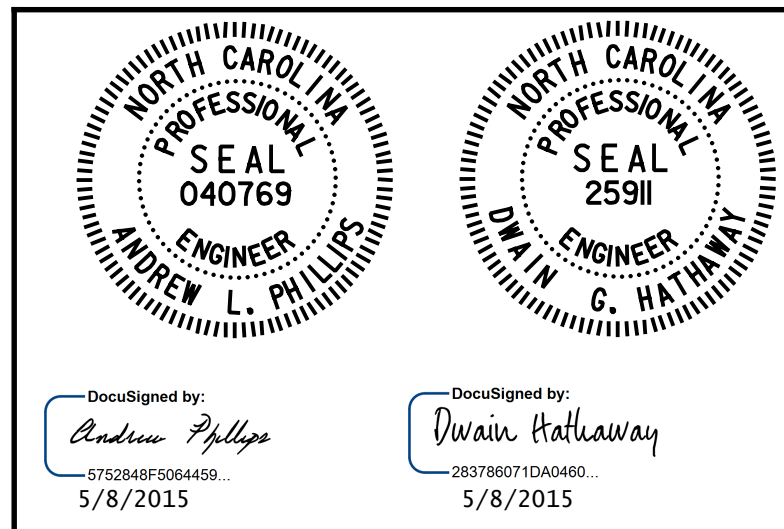
ALL BAR DIMENSIONS ARE OUT-TO-OUT



QUANTITIES FOR ONE GIRDER

|                  | REINFORCING STEEL | 8,000 PSI CONCRETE | 0.6" Ø L. R. STRANDS |
|------------------|-------------------|--------------------|----------------------|
|                  | LB.               | C.Y.               | No.                  |
| SPANS D, G AND J | 1027              | 19.1               | 36                   |
| GIRDERS REQUIRED |                   |                    |                      |
| NUMBER           | LENGTH            | TOTAL LENGTH       |                      |
| 15               | 94'-2"            | 1412'-6"           |                      |

PROJECT NO. R-2514D  
JONES COUNTY  
STATION: 389+47.50 -L-  
SHEET 2 OF 5



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH  
SUPERSTRUCTURE  
AASHTO TYPE IV  
PRESTRESSED CONCRETE GIRDER  
CONTINUOUS FOR LIVE LOAD  
SPANS D, G & J  
RIGHT LANE

| REVISIONS |     |       |     |     |       | SHEET NO.<br>S08-17 |
|-----------|-----|-------|-----|-----|-------|---------------------|
| NO.       | BY: | DATE: | NO. | BY: | DATE: |                     |
| 1         |     |       | 3   |     |       | TOTAL SHEETS<br>68  |
| 2         |     |       | 4   |     |       |                     |

DRAWN BY: N. B. SPEAKS DATE: 8-6-13  
CHECKED BY: A. L. PHILLIPS DATE: 8-12-13

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