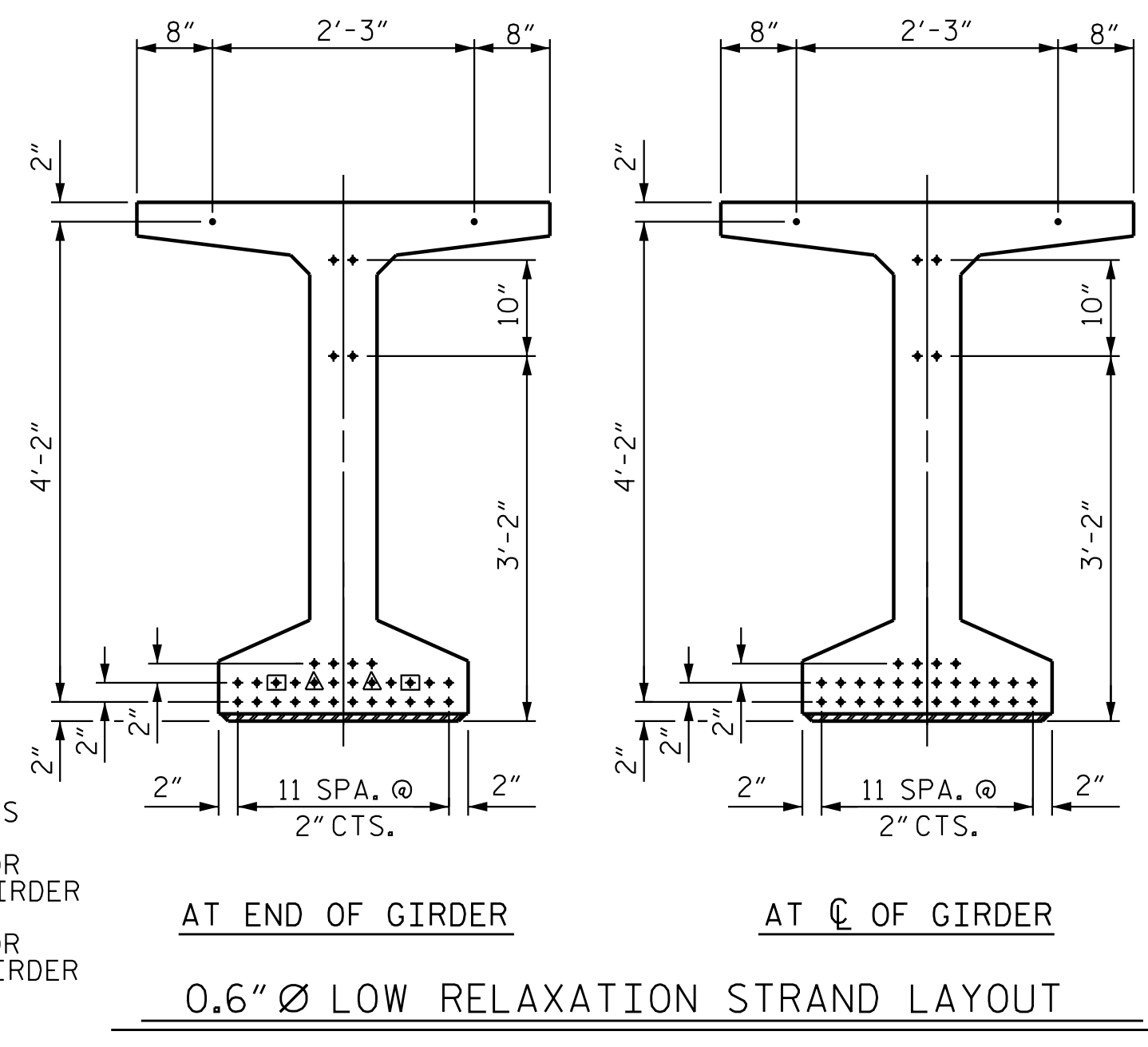


DEBONDING LEGEND

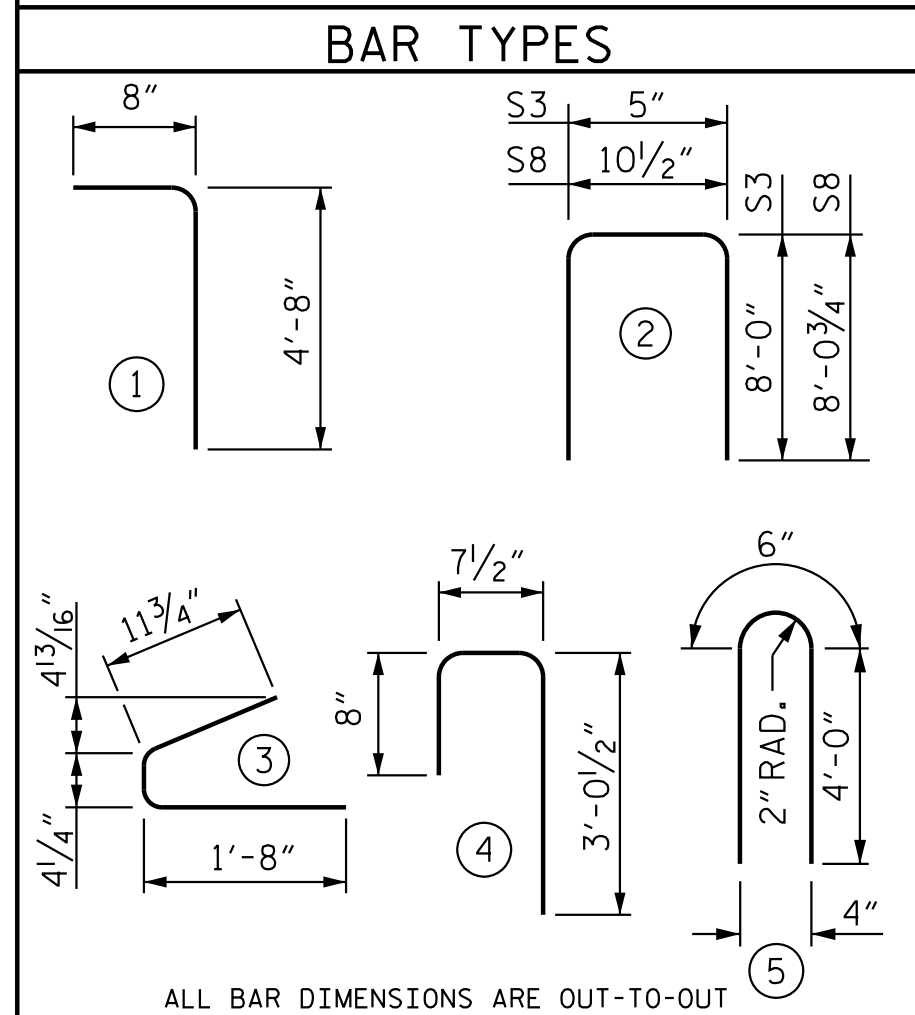
- FULLY BONDED STRANDS
- STRANDS DEBONDED FOR 10'-0" FROM END OF GIRDER
- STRANDS DEBONDED FOR 12'-0" FROM END OF GIRDER



| 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 GDR | | | | | |
|-------------------------------|--------|------|------|--------|--------|
| BAR | NUMBER | SIZE | TYPE | LENGTH | WEIGHT |
| S1 | 188 | #4 | 1 | 5'-4" | 670 |
| S2 | 80 | #6 | 1 | 5'-4" | 641 |
| S3 | 10 | #4 | 2 | 16'-5" | 110 |
| S4 | 80 | #4 | 3 | 3'-0" | 160 |
| S6 | 268 | #5 | 4 | 4'-4" | 1211 |
| *S7 | 30 | #5 | STR | 3'-8" | 115 |
| S8 | 2 | #5 | 2 | 17'-0" | 35 |
| S9 | 46 | #5 | STR | 3'-3" | 163 |
| S10 | 2 | #3 | STR | 1'-10" | 1 |
| S11 | 4 | #5 | 5 | 8'-6" | 35 |
| S12 | 8 | #4 | STR | 8'-0" | 43 |

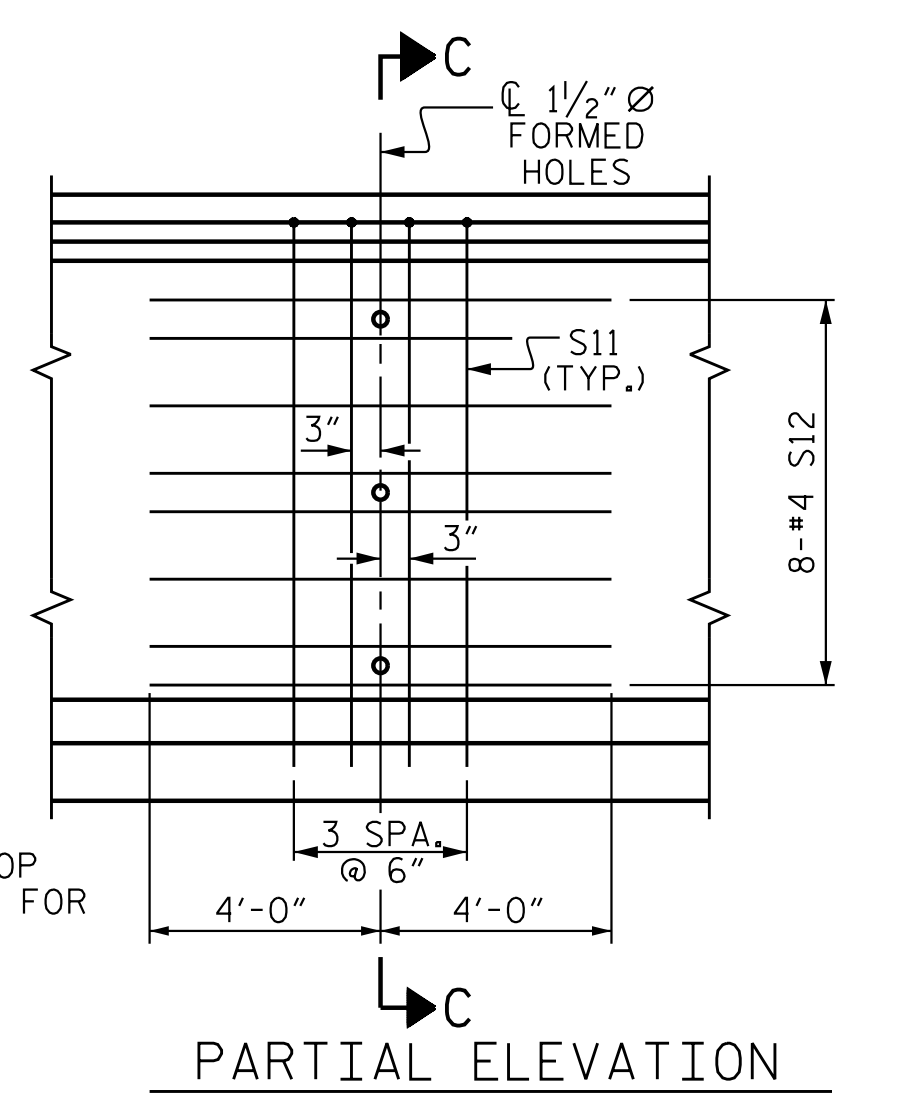
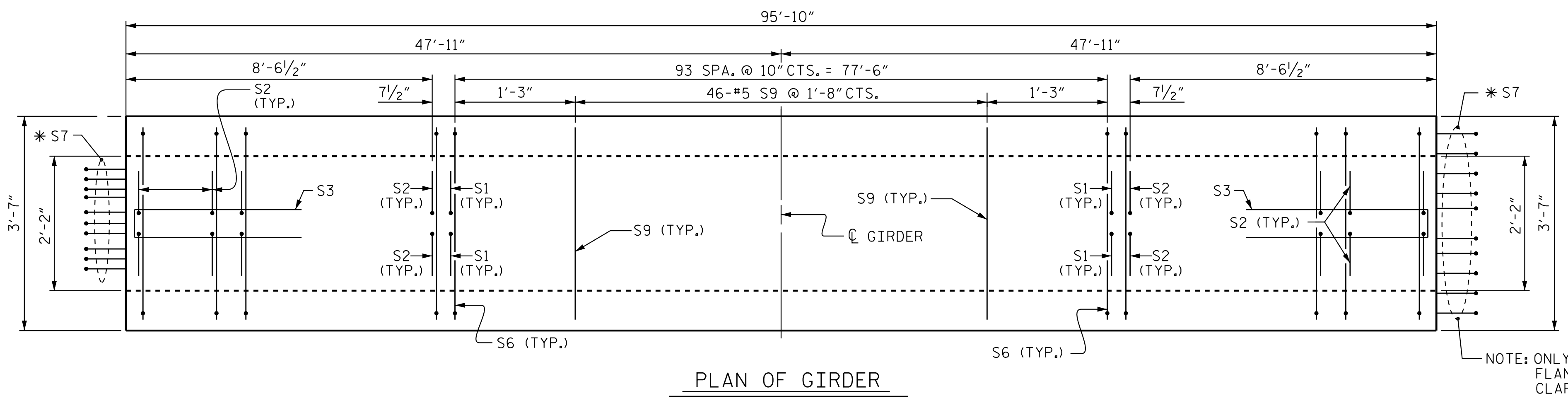
* NOTE: S7 BARS SHALL BE BENT BEFORE SHIPMENT. HEAT BENDING SHALL NOT BE ALLOWED.



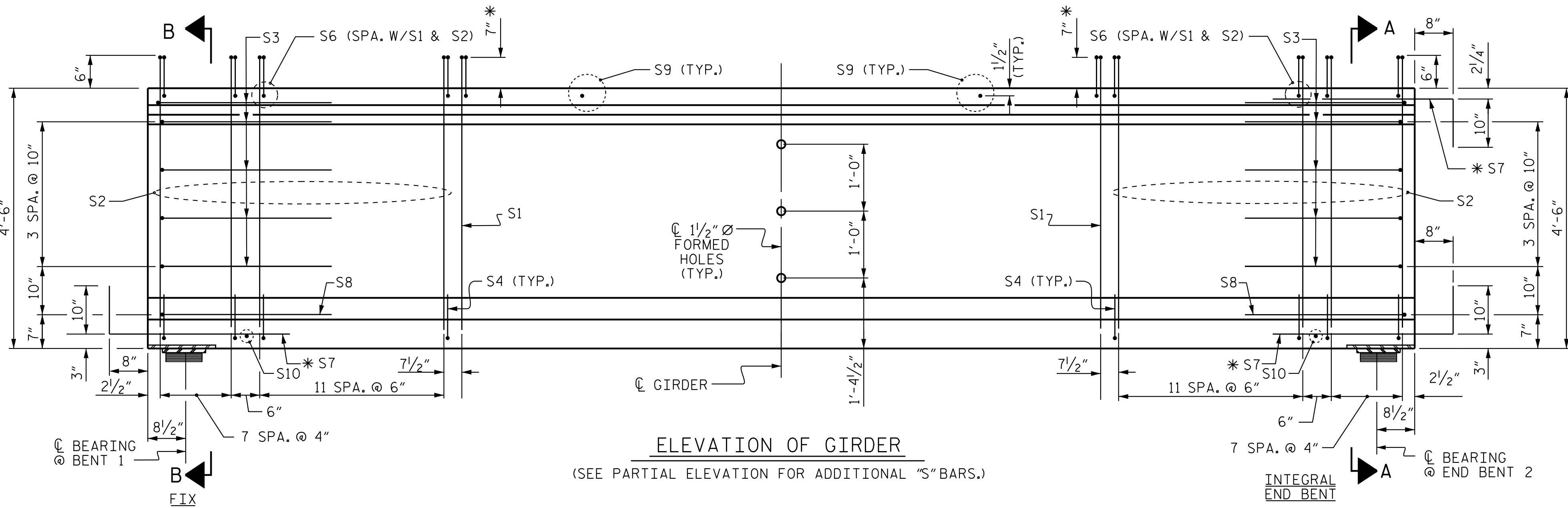
ALL BAR DIMENSIONS ARE OUT-TO-OUT

| QUANTITIES FOR ONE GIRDER | | | |
|---------------------------|-------------------|--------------------|---------------------|
| | REINFORCING STEEL | 8,000 PSI CONCRETE | 0.6" Ø L.R. STRANDS |
| | LB. | C.Y. | No. |
| | 3,184 | 17.4 | 34 |

| GIRDERS REQUIRED | | |
|------------------|---------|--------------|
| NUMBER | LENGTH | TOTAL LENGTH |
| 4 | 95'-10" | 383'-4" |



SHOWING INTERMEDIATE STEEL DIAPHRAGM REINFORCING STEEL FOR ALL GIRDERS



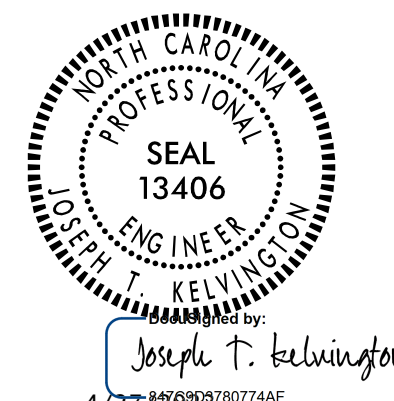
NOTE: S1 STIRRUPS THAT ARE IN CONFLICT WITH 1/2" Ø FORMED HOLES MAY BE SHIFTED SLIGHTLY AS NECESSARY TO CLEAR HOLES AND S11 BARS.

* SET 94 S1 & S6 BAR PAIRS 7" ABOVE TOP OF GIRDER AS SHOWN, PROVIDE 6" PROJECTION ABOVE GIRDER AT ALL OTHER LOCATIONS.

PROJECT NO. R-2707D
 CLEVELAND COUNTY
 STATION: 19+82.46 -Y1-

SHEET 2 OF 4

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 SUPERSTRUCTURE
 MODIFIED 54" PRESTRESSED
 CONCRETE GIRDER
 CONTINUOUS FOR LIVE LOAD
 SPAN B



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

| REVISIONS | | | | | | SHEET NO. S1-14 |
|-----------|-----|-------|-----|-----|-------|--------------------|
| NO. | BY: | DATE: | NO. | BY: | DATE: | |
| 1 | | | 3 | | | TOTAL SHEETS 32 |
| 2 | | | 4 | | | |

Stantec Consulting Services Inc.
 801 Jones Franklin Road
 Suite 300
 Raleigh, NC 27606
 Tel. (919) 851-6866
 Fax. (919) 851-7024
 www.stantec.com
 License No. F-0672

DRAWN BY: J. E. HAGENBUSH DATE: 01/22/18
 CHECKED BY: N.D. AIUTO DATE: 01/30/18
 DESIGN ENGINEER OF RECORD: J. KELVINGTON DATE: 04/27/23

4/27/2023 10:24:21 AM jHagenbush