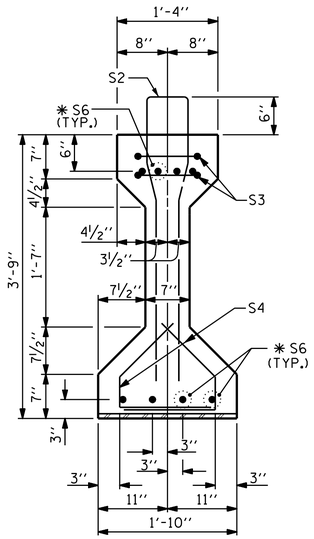
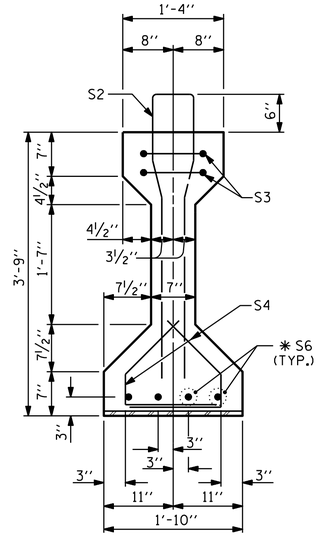
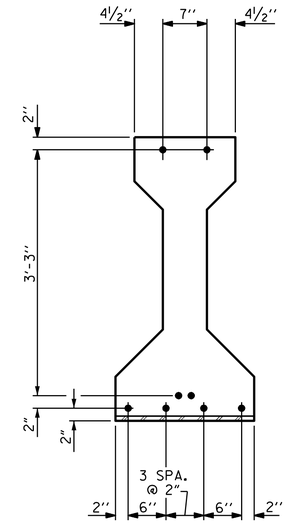


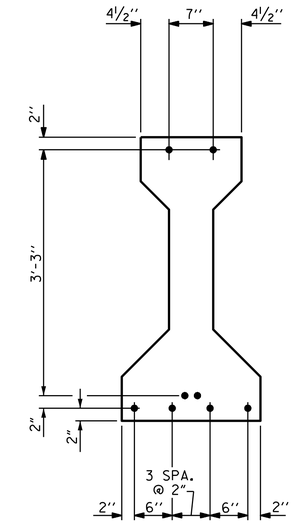

SECTION A-A




SECTION B-B

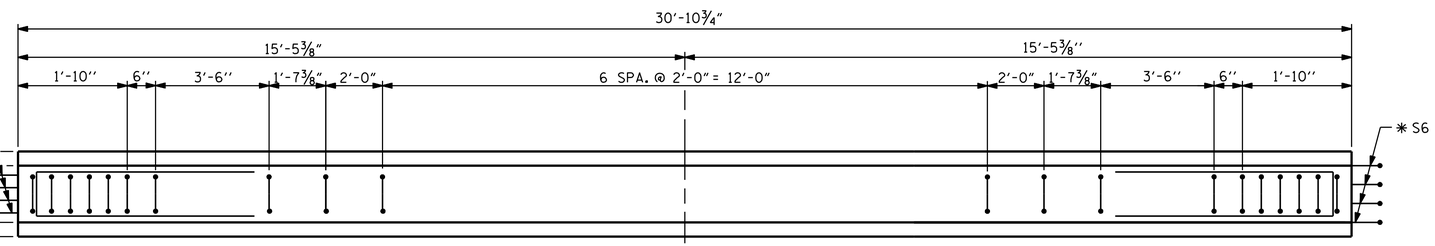



AT END OF GIRDER

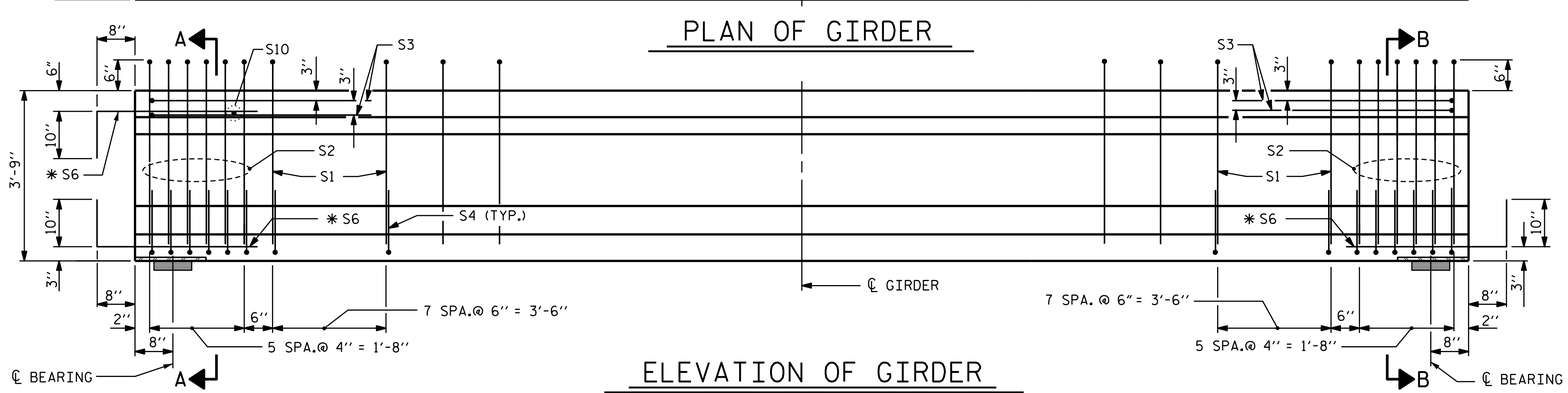



AT ℄ OF GIRDER

0.6'' Ø LOW RELAXATION STRAND LAYOUT




PLAN OF GIRDER




INTEGRAL END BENT

ELEVATION OF GIRDER

FIX

| 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 |

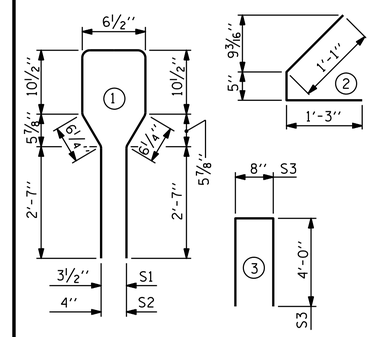
REINFORCING STEEL FOR ONE GIRDER

| BAR | NUMBER | SIZE | TYPE | LENGTH | WEIGHT |
|---|---|---|---|---|---|
| S1 | 25 | #4 | 1 | 8'-6'' | 142 |
| S2 | 12 | #6 | 1 | 8'-6'' | 153 |
| S3 | 4 | #4 | 3 | 8'-8'' | 23 |
| S4 | 56 | #4 | 2 | 2'-9'' | 103 |
| ✱ S6 | 12 | #5 | STR | 3'-8'' | 46 |
| S10 | 1 | #3 | STR | 1'-0'' | 1 |

✱ NOTE: S6 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 | 5000 PSI CONCRETE | 0.6'' Ø L. R. STRANDS |
|---|---|---|---|
| | LB. | C.Y. | No. |
| | 468 | 4.5 | 8 |

GIRDERS REQUIRED

| NUMBER | LENGTH | TOTAL LENGTH |
|---|---|---|
| 5 | 30'-10¾'' | 154'-5¾'' |

PROJECT NO. B-4983

BURKE COUNTY

STATION: 13+52.95 -L-

SHEET 1 OF 5

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

AASHTO TYPE III
PRESTRESSED CONCRETE GIRDER
CONTINUOUS FOR LIVE LOAD
SPAN A

ASSEMBLED BY : V.X. NGUYEN DATE : 6/21/12
CHECKED BY : H.T. BARBOUR DATE : 4/13
DESIGN ENGINEER OF RECORD: W. J. HARRIS DATE : 4/14

DRAWN BY : ELR 8/91
CHECKED BY : GRP 8/91

REV. 10/17/00R RWW/LES
REV. 5/1/06R TLA/GM
REV. 10/1/11 MAA/GM

NORTH CAROLINA PROFESSIONAL SEAL 20125 ENGINEER MARSHALL G. CHEEK, JR.

Marshall G. Cheek, Jr.
B549D6EBAA3B405...
4/25/2014

| REVISIONS | | | | | | | |
|---|---|---|---|---|---|---|---|
| NO. | BY: | DATE: | NO. | BY: | DATE: | SHEET NO. | S-10 |
| 1 | | | 3 | | | TOTAL SHEETS | 36 |
| 2 | | | 4 | | | | |

STD. NO. PCG5

$$$$$$SYSTIME$$$$$
$$$$$$$$$$$$$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$$$$$$$$
$$$$USERNAME$$$$