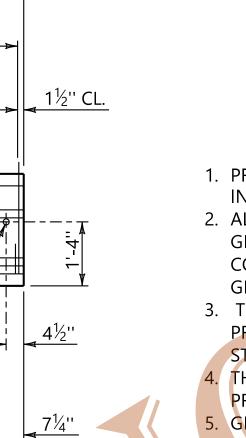


## **NOTES**

- 1. PRESTRESSING STRANDS SHALL BE  $\frac{1}{2}$ " DIAMETER 270,000 PSI LOW RELAXTION WITH AN INITIAL TENSION OF 30,983 LBS./STRAND UNLESS OTHERWISE NOTED.
- 2. ALL STRANDS NOT TO BE ENCASED IN CONCRETE SHALL BE CUT FLUSH AT EACH END OF THE GIRDER. COAT GIRDER ENDS WHERE STRANDS ARE CUT WITH AN APPROVED EPOXY COATING. STRANDS TO BE ENCASED IN CONCRETE MAY EXTEND 2" FROM THE END OF THE
- 3. THE GIRDER CONCRETE SHALL HAVE A MINIMUM OF 4,500 PSI COMPRESSIVE STRENGTH PRIOR TO RECEIVING PRESTRESSING FORCE AND A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 5,000 PSI.
- THREADED BARS R2 AND THREADED INSERTS SHALL BE INCLUDED IN THE BID ITEM 513B, PRETENSIONED-PRESTRESSED CONCRETE GIRDERS, TYPE I.
- GIRDER ENDS SHALL BE VERTICAL IN FINAL ERECTED POSITION.
- . UNLESS OTHERWISE SHOWN, STIRRUPS AND CONFINEMENT STEEL SHALL BE SECURELY TIED TO THE PRESTRESSING STRANDS TO PROVIDE A MINIMUM OF 1" CONCRETE COVER.
- CONNECTION ANGLES ARE REQUIRED ON BOTH FACES OF ALL GIRDERS AT THE FIXED END AND BOTH FACES OF THE EXTERIOR GIRDERS ONLY AT THE EXPANSION END. SEE BRIDGE SPECIAL PROJECT DWG. SPGD-1 FOR DETAILS.
- 3. THE ENGINEER WILL CONSIDER ALTERNATE GIRDER REINFORCING UTILIZING WELDED WIRE FABRIC IN LIEU REINFORCING FOR BARS B. THE EQUIVALENT AREA OF STEEL AND SPACING OF BARS SHALL BE MAINTAINED.

INT. SPANS



## \* TYPICAL GIRDER ELEVATION

SCALE: ½'' = 1'-0''

▲ 2 STRAIGHT ½"Ø PRESTRESSED STRANDS WITH INITIAL TENSION OF 5,000 LBS. PER STRAND. STIRRUPS V#5 SHALL BE TIED IN PLACE TO THESE STRANDS.

TRUE GRADE AFTER

OF GIRDER—

DEAD LOAD DEFLECTION

6 @ 8''

=4'-0''

4 @ 1'-0''

=4'-0''

<sup>−</sup>¾'' CHAMFER

✓ MID-POINT OF GIRDER

OP OF GIRDER PRIOR

TOP OF GIRDER AFTER

/ 7" DECK

BUILD-UP (VARIES)

1½" @ **£** BRG. ONLY

**DECK PLACEMENT** 

TO DECK PLACEMENT

**REVISIONS** 

(TYP.)

- BARS B#3 SPA. W/STIRRUPS V#5

1'-4''

**AASHTO TYPE I GIRDER** 

SCALE: 1'' = 1'-0''

(10 PAIRS) TYP. EACH END

SPACING FOR

STIRRUPS V#51

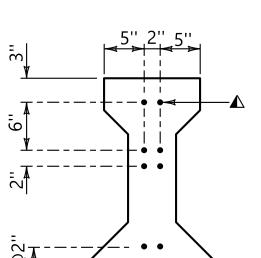
1½" CL.

71/4"

9 @ 4''

=3'-0''

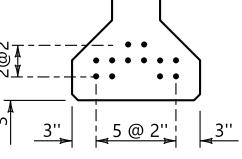
**└** BRG.



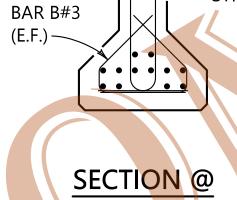
5 @ 1'-6''

=7'-6''

 $-2 - \frac{1}{2}$ "Ø TIE STRANDS



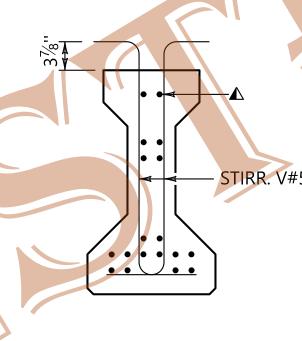
STRAND PATTERN



5 @ 1'-6''

=7'-6''

- 16 -  $\frac{1}{2}$ "Ø STRAIGHT STRANDS



6 @ 8''

=4'-0''

9 @ 4''

=3'-0''

⊈ BRG.—>

 $\blacksquare$  1½"Ø HOLE (GDRS. 2 & 3) OR 1"Ø THREADED

INSERT (INSIDE FACE ONLY, GDRS. 1 & 4)

\* DIMENSIONS SHOWN ARE ALONG & GIRDER

END OF GIRDER

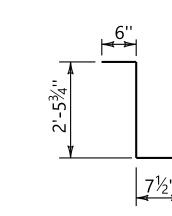
STIRR. V#5

4 @ 1'-0''

=4'-0''

**SECTION** ALONG GIRDER





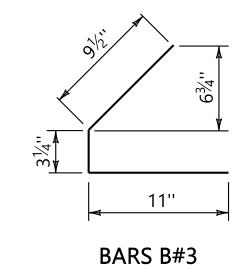
STIRRUPS V#5

L	38'-4 <sup>3</sup> ⁄ <sub>4</sub> ''	39'-2½''
В	37'-2 <sup>1</sup> ⁄ <sub>4</sub> ''	38'-0''
Α	1'-1¾''	2 SPA. @ 11¾''

**END SPANS** 

NC THREAD \_ 3" 2'-3''

BARS R2#8



☐ THEORETICAL CAMBER (UPWARD DEFLECTION) SHOWN. ACTUAL CAMBER
OF GIRDER MAY VARY AND SHOULD BE DETERMINED BY THE
CONTRACTOR PRIOR TO ORDERING MATERIALS AND SETTING FORMS.
Å ADUICTMENT TO DUUD UD MANY DE DECUUDED IE UCED EOD DDIDCEC

△ ADJUSTMENT TO BUILD-UP MAY BE REQUIRED IF USED FOR BRIDGES IN EXTREME CREST OR SAG VERTICAL CURVE GRADES.

OF DECK AND TOP OF GDR. (ALONG & GDR.) **NO SCALE** 

> THIS BRIDGE SPECIAL PROJECT DRAWING FOR USE ONLY ON: PROJECT NO. COUNTY(S)

CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OI THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

40'-0" SIMPLE AASHTO TYPE I GIRDER SPANS HL 93 LOADING

BRIDGE SPECIAL PROJECT DRAWING SHEET 2 OF 2

S2440(S)

ALABAMA DEPARTMENT **OF TRANSPORTATION** 

DETAIL OF BUILD-UP BETWEEN BOTTOM