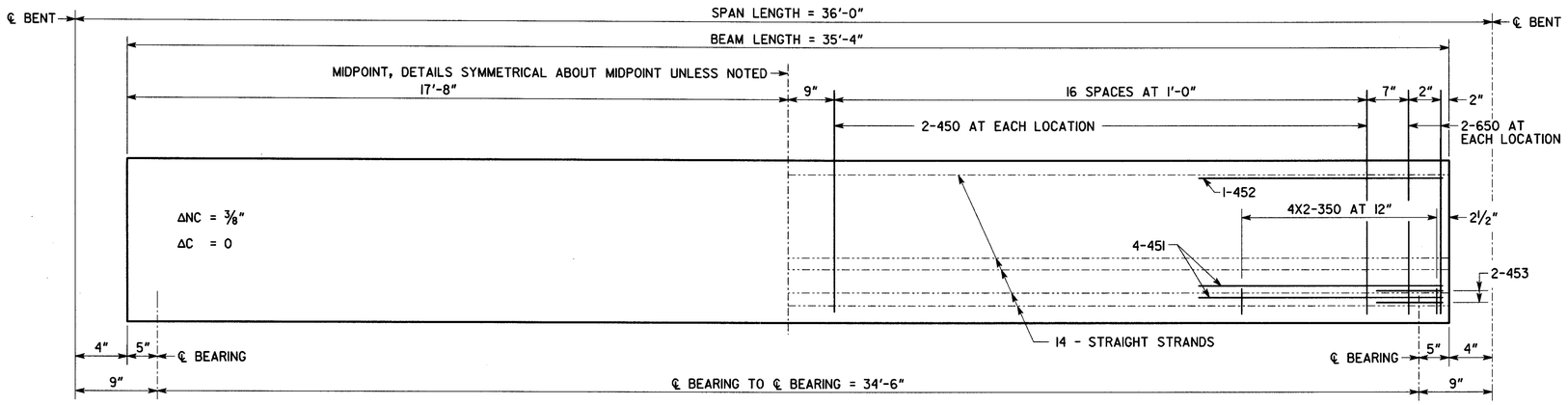
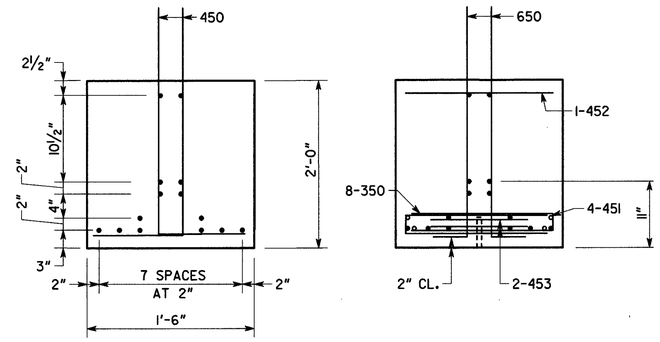
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	CSNHS-M002-00(783)	35	70



ELEVATION



MAINTAIN 1" MINIMUM CLEARANCE UNLESS SHOWN.
• INDICATES ½" DIAMETER SPECIAL PRESTRESSED STRANDS.

SECTION AT MIDPOINT SECTION AT END

NOTES

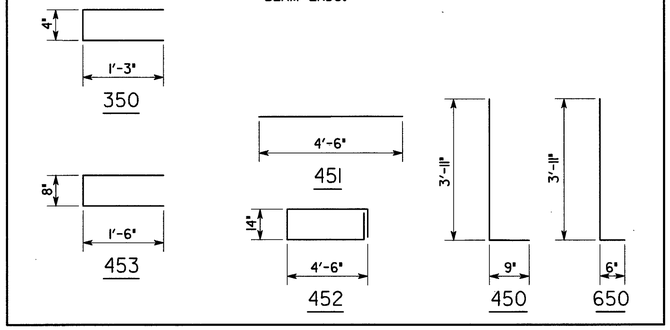
1. BEAMS SHALL BE MAINTAINED IN AN UPRIGHT POSITION AT ALL TIMES AND SHALL BE PICKED UP WITHIN 3'-0" FROM THEIR ENDS. DISREGARDING THIS REQUIREMENT COULD LEAD TO COLLAPSE OF THE BEAM. PICK-UPS SHALL BE EMBEDDED TO WITHIN 4" OF THE BOTTOM OF THE BEAM. DETAILS OF PICK-UPS SHALL BE INCLUDED IN THE SHOP DRAWINGS.
2. CHAMFER EDGES OF BEAMS ½" OR ¾".
3. HORIZONTAL DIMENSIONS ARE IN PLACE DIMENSIONS. THE BEAM LENGTH INCLUDES THE ⅛" EPOXY MORTAR AT EACH END. SHOP DRAWINGS SHALL ADJUST HORIZONTAL DIMENSIONS FOR GRADE AND FABRICATION EFFECTS SUCH AS SHRINKAGE AND ELASTIC SHORTENING.
4. AT ℄ BEARING, FORM A 1½" DIAMETER X 7" DEEP HOLE AT THE FIXED ENDS AND A 4" X 1½" X 7" DEEP SLOT AT THE EXPANSION ENDS FOR A 1¼" DIAMETER SMOOTH DOWEL. SEE PLAN AND ELEVATION SHEET FOR LOCATION OF FIXED AND EXPANSION ENDS. SEE MISCELLANEOUS DETAILS SHEET FOR NEW LOCATION OF DOWELS AT INTERMEDIATE BENTS.
5. TOPS OF BEAMS SHALL BE ROUGH FLOATED AT APPROXIMATELY THE TIME OF INITIAL SET. ENTIRE TOP SHALL BE SCRUBBED TRANSVERSELY WITH A COARSE BRUSH TO REMOVE ALL LAITANCE AND TO PRODUCE A ROUGHENED SURFACE FOR BONDING TO THE SLAB. ROUGHENED SURFACE SHALL HAVE AN AMPLITUDE OF APPROXIMATELY ¼". CONCRETE FINS OR PROJECTIONS SHALL BE REMOVED TO PRODUCE A VERTICAL FACE AT THE EDGE OF THE BEAM.
6. NON-COMPOSITE DEAD LOAD DEFLECTION (ΔNC) AT THE MIDPOINT IS DUE TO THE WEIGHT OF THE SLAB AND COPING.
7. COMPOSITE DEAD LOAD DEFLECTION (ΔC) AT THE MIDPOINT IS DUE TO THE WEIGHT OF BARRIER.
8. STRANDS SHALL MEET ALL REQUIREMENTS OF ASTM A 416 GRADE 270.
9. PRESTRESSING DATA IS AS FOLLOWS:
   A. USE 14 - ½" DIAMETER SPECIAL LOW-RELAXATION (A = 0.167 SQ IN) STRANDS. PRETENSION STRANDS TO 33,818 LBS EACH.
   B. PRETENSIONED STRANDS SHALL BE RELEASED AFTER THE CONCRETE HAS REACHED A MINIMUM STRENGTH (f'_{ci}) OF 4,500 PSI.
   C. THE TOTAL JACKING FORCE OF PRETENSIONING IS 473,452 LBS.
   D. THE NET PRESTRESSING FORCE OF THE STRANDS AFTER LOSSES IS 401,483 LBS.
10. CONCRETE STRENGTH (f'_c) = 5,000 PSI.

REINFORCEMENT

ALL BAR DIMENSIONS ARE OUT TO OUT.

AT THE TOP OF THE BEAM, BARS 450 AND 650 SHALL BE FIELD BENT OR SHOP BENT 90°, SUCH THAT THE HORIZONTAL LEG EXTENDS BETWEEN TOP AND BOTTOM MATS OF SLAB REINFORCEMENT.

PLACE BARS 453 WITH OPEN ENDS AWAY FROM BEAM ENDS.



BRIDGE NO. 1 LT & RT

Heath & Lineback Engineers
INCORPORATED
12 POWDER SPRINGS STREET, SUITE 240
MARIETTA, GEORGIA 30064

GEORGIA
DEPARTMENT OF TRANSPORTATION
OPERATIONS DIVISION - OFFICE OF MAINTENANCE

SPECIAL DESIGN, PSC BEAM - SPANS 1 & 3
DISTRICT 3 BRIDGE DECK REHABILITATION
I-75 OVER SANDY MOUNT CREEK
DOOLY COUNTY CSNHS-M002-00(783)

SCALE: NO SCALE AUGUST 2005

DESIGNED	TBS	CHECKED	FRB	REVIEWED	GBL
DRAWN	TBS	DESIGN GROUP		APPROVED	

DATE | REVISIONS | BY

BRIDGE SHEET 8 OF 9

DWG. NO. 35-8

J:/4019/4019.783/BRIDGE/SANDYMOUNTCREEK/ID093.32_BM2.DGN