

| STATE | PROJECT NUMBER | SHEET NUMBER | TOTAL SHEETS |
|---------|----------------|--------------|--------------|
| GEORGIA | BRZLB-77(34) | 84 | 113 |

GENERAL NOTES

SPECIFICATIONS-
 GEORGIA STANDARD SPECIFICATIONS, 2001 EDITION AS MODIFIED BY CONTRACT DOCUMENTS.

REINFORCING STEEL-
 ALL REINFORCING STEEL SHALL BE PLACED AND TIED IN ACCORDANCE WITH GEORGIA D.O.T. SPECIFICATIONS. WELDING OF REINFORCING STEEL WILL NOT BE PERMITTED.

CHAMFER-
 ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED 3/4 INCH UNLESS OTHERWISE NOTED.

TRAFFIC CONTROLS-
 ROAD TO BE CLOSED DURING BRIDGE CONSTRUCTION. SEE ROADWAY PLANS FOR DETOUR, TRAFFIC CONTROLS AND TRAFFIC CONTROL PAYMENT.

EXISTING BRIDGE PLANS-
 PLANS FOR EXISTING BRIDGE ARE NOT AVAILABLE.

WAITING PERIOD-
 NO WORK SHALL BEGIN AT BENTS 1 AND 4 UNTIL THE COMPLETED END FILLS HAVE BEEN IN PLACE FOR AN ESTIMATED PERIOD OF 30 DAYS.

PLAN DRIVING OBJECTIVE-
 SEE SUBSTRUCTURE DETAILS.

PILOT HOLES-
 A 24" DIAMETER PILOT HOLE SHALL BE DRILLED TO A MINIMUM ELEVATION OF 730 AT BENT 2 AND 727 AT BENT 3 FOR EACH PILE. PILOT HOLES SHALL BE DRILLED TO SOCKET 5'-0" MIN. INTO ROCK.

PILE ENCASEMENT-
 PILES AT BENTS 2 AND 3 SHALL BE ENCASED IN CONCRETE UP TO ELEVATION 747.50 OR 2'-0" ABOVE GROUND, WHICHEVER IS HIGHER. ENCASEMENT SHALL BE IN ACCORDANCE WITH SECTION 547 OF THE GEORGIA D.O.T. SPECIFICATIONS.

SPECIAL PROTECTIVE COATING-
 PILES SHALL BE CLEANED AND PAINTED IN ACCORDANCE WITH SECTIONS 520 AND 535 OF THE GEORGIA D.O.T. SPECIFICATIONS. PORTIONS OF THE PILES WITHIN THE PILE ENCASEMENT SHALL NOT BE PAINTED. PAINT SHALL BE SYSTEM VI EXCEPT THE TOP COAT SHALL BE BLACK, FEDERAL STANDARD NO. 595 COLOR 27040.

SMOOTH DOWEL BARS-
 SMOOTH DOWEL BARS SHALL BE PLACED IN FORMED 3" DIAMETER X 12" DEEP HOLES AND GROUTED IN PLACE SIMILAR TO ANCHOR BOLTS; SEE SUB-SECTION 501.3.05.B.3 OF THE GEORGIA D.O.T. SPECIFICATIONS. STIRRUPS MAY BE SHIFTED SLIGHTLY TO CLEAR FORMED HOLES.

PROTECTIVE SURFACE TREATMENT-
 PROTECTIVE SURFACE TREATMENT WILL BE REQUIRED AT THIS SITE AS PER SUB-SECTION 500.3.05. AD OF THE GEORGIA D.O.T. SPECIFICATIONS.

GROOVED CONCRETE-
 THE ENTIRE LENGTH OF THE BRIDGE SHALL BE GROOVED TRANSVERSELY AS PER SUB-SECTION 500.3.05.T.3 OF THE GEORGIA D.O.T. SPECIFICATIONS.

PSC BEAMS-
 PRESTRESSED CONCRETE AASHTO TYPE I MODIFIED BEAMS SHALL BE PAID FOR AS "LF PSC BEAMS, AASHTO TYPE I".

WELDING-
 ALL WELDING ON GEORGIA D.O.T. PROJECTS SHALL BE PERFORMED BY CERTIFIED WELDERS THAT HAVE IN THEIR POSSESSION A CURRENT WELDING CERTIFICATION CARD ISSUED BY THE GEORGIA D.O.T. OFFICE OF MATERIALS AND RESEARCH. ONLY E70XX (EXCLUDING E7014 AND E7024) LOW HYDROGEN ELECTRODES SHALL BE USED FOR MANUAL SHIELDED METAL ARC WELDING.

SALVAGE MATERIAL-
 NO MATERIAL REMOVED FROM THE EXISTING STRUCTURE SHALL BE SALVAGED FOR USE BY THE GEORGIA DEPARTMENT OF TRANSPORTATION.

INCIDENTAL ITEMS-
 COST INCIDENTAL TO THE WORK THAT IS NOT SPECIFICALLY COVERED BY THE GEORGIA STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND/OR SPECIAL PROVISIONS SHALL BE INCLUDED IN THE OVERALL BID SUBMITTED. THIS INCLUDES WATERPROOFING, JOINT FILLERS, AND OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK.

DRIVING DATA PILES-
 ONE DRIVING DATA PILE SHALL BE REQUIRED AT BENT 1.

BRIDGE CONSISTS OF:

- 3 - 37'-4" TYPE I MOD PSC BEAM SPANS ----- SPECIAL DESIGN
- 2 - STEEL H PILE END BENTS ----- SPECIAL DESIGN
- 2 - STEEL H PILE INTERMEDIATE BENTS ----- SPECIAL DESIGN
- 4 - END POST AND GUARDRAIL ATTACHMENT DETAIL ----- GA. STD. 3054 (5-89)
 (L=4'-0"; W=1'-1"; H=2-8")
 (L=5'-0"; W=1'-1"; H=2-8")
- BAR BENDING DETAILS ----- GA. STD. 3901 (8-69)
- TYPICAL FILL DETAIL AT END OF BRIDGE ----- GA. STD. 9037 (10-20-97)

DESIGN DATA

SPECIFICATIONS ----- AASHTO 1996 W/97 & 98 INTERIMS
 (DESIGNED FOR SEISMIC PERFORMANCE CATEGORY A)

TYPICAL HS 20-44 AND/OR MILITARY LOADING ----- IMPACT ALLOWED

FUTURE PAVING ALLOWANCE ----- 30 LBS PER SQ FT

CONCRETE SUPERSTRUCTURE ----- CLASS AA, f_c = 3,500 PSI

PSC BEAMS ----- CLASS AAA, f_c = 6,500 PSI

SUBSTRUCTURE ----- CLASS A, f_c = 3,000 PSI

PSC BEAMS ALLOWABLE TENSION ----- 484 PSI

REINFORCEMENT STEEL ----- GRADE 60, f_y = 60,000 PSI

PRETENSIONING STRANDS ----- f_p = 270,000 PSI

TRAFFIC DATA

TRAFFIC ----- ADT = 1000 (2000)
 ADT = 1600 (2020)

DESIGN SPEED ----- 35 MPH

TRUCKS ----- 1%

24 HR TRUCKS ----- 2%

DIRECTIONAL ----- 65/35

DRAINAGE DATA

DRAINAGE AREA ----- 8.2 SQ MILES

| FLOOD FREQUENCY | DISCHARGE | VELOCITY | AREA OF OPENING UNDER HIGHWATER |
|-----------------|-----------|----------|---------------------------------|
| 50 YEAR | 2901 CFS | 7.15 FPS | 406 SQ FT |
| 100 YEAR | 3461 CFS | 7.57 FPS | 457 SQ FT |
| 500 YEAR | 5016 CFS | 8.55 FPS | 587 SQ FT |

UTILITIES

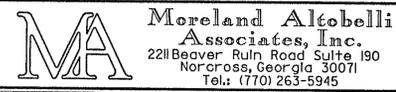
NONE

SUMMARY OF QUANTITIES

| PAY ITEM NUMBER | QTY | UNIT | PAY ITEM |
|-----------------|------|------|---|
| 500-0100 | 374 | SY | GROOVED CONCRETE |
| 500-1006 | LUMP | LS | SUPERSTR CONCRETE, CL AA, BR NO-1 (134) |
| 500-2100 | 211 | LF | CONCRETE BARRIER |
| 500-3101 | 52 | CY | CLASS A CONCRETE |
| 507-9001 | 432 | LF | PSC BEAMS, AASHTO TYPE I, BR NO-1 |
| 511-1000 | 5848 | LB | BAR REINF STEEL |
| 511-3000 | LUMP | LS | SUPERSTR REINF STEEL, BR NO-1 (35661) |
| 520-1104 | 335 | LF | PILING IN PLACE, STEEL H, HP 10 X 42 |
| 520-1151 | 254 | LF | PILING IN PLACE, STEEL H, HP 14 X 89 |
| 520-4104 | 1 | EA | LOAD TEST, STEEL H, HP 10 X 42 (IF REQD) |
| 520-4151 | 1 | EA | LOAD TEST, STEEL H, HP 14 X 89 (IF REQD) |
| 520-5000 | 176 | LF | PILOT HOLES |
| 540-1101 | LUMP | | REMOVAL OF EXISTING BRIDGE, STA NO- 18+99 |
| 547-2014 | 32 | LF | PILE ENCASEMENT, 14 IN PILE |
| 603-2024 | 1100 | SY | STN DUMPED RIP RAP, TP 1, 24 IN |
| 603-7000 | 1100 | SY | PLASTIC FILTER FABRIC |



BRIDGE NO-1



| DESIGNED BY | RYS | DRAWN BY | SSB | QUANTITIES BY | RYS |
|---------------|-----|----------------------|-----|---------------|---------------|
| CHECKED BY | FEJ | CHECKED BY | FEJ | CHECKED BY | FEJ |
| SUPERVISED BY | | HISHAM H. DEEB, P.E. | | DATE: | DECEMBER 2001 |

DEPARTMENT OF TRANSPORTATION
 STATE OF GEORGIA

| Δ | DATE | BY | REVISIONS |
|---|------|----|-----------|
| | | | |
| | | | |

TYPICAL SECTION
 C.R. 21 (HAPPY VALLEY CIRCLE) OVER BROWN'S CREEK
 COWETA COUNTY
 BRZLB-77(34)

DRAWING NUMBER
 2 OF 12