

STEEL BEAM REPAIR CONSISTS OF

GENERAL NOTES

| STATE | PROJECT NUMBER     | SHEET NO. | TOTAL SHEETS |
|-------|--------------------|-----------|--------------|
| GA.   | CSSTP-M003-00(736) | 9         | 23           |

| PAY ITEM NUMBER | QUANTITY | UNIT | PAY ITEM  |
|-----------------|----------|------|---|
| 999-0030        | LUMP     | LS   | HEAT STRAIGHTENING AND REPAIR OF STRUCTURAL MEMBERS BM NO 1, SPAN NO - 2, BR NO 1 |
| 999-0030        | LUMP     | LS   | HEAT STRAIGHTENING AND REPAIR OF STRUCTURAL MEMBERS BM NO 3, SPAN NO - 2, BR NO 1 |
| 999-0030        | LUMP     | LS   | HEAT STRAIGHTENING AND REPAIR OF STRUCTURAL MEMBERS BM NO 4, SPAN NO - 2, BR NO 1 |
| 999-0030        | LUMP     | LS   | HEAT STRAIGHTENING AND REPAIR OF STRUCTURAL MEMBERS BM NO 1, SPAN NO - 3, BR NO 1 |
| 999-0030        | LUMP     | LS   | HEAT STRAIGHTENING AND REPAIR OF STRUCTURAL MEMBERS BM NO 2, SPAN NO - 3, BR NO 1 |
| 999-0030        | LUMP     | LS   | HEAT STRAIGHTENING AND REPAIR OF STRUCTURAL MEMBERS BM NO 3, SPAN NO - 3, BR NO 1 |
| 999-0030        | LUMP     | LS   | HEAT STRAIGHTENING AND REPAIR OF STRUCTURAL MEMBERS BM NO 4, SPAN NO - 3, BR NO 1 |

HEAT STRAIGHTENING AND REPAIR TO STRUCTURAL MEMBERS ----- SPECIAL DESIGN  
 TRAFFIC CONTROL DETAIL ----- GA. STD. 9106 (7-99)

DAMAGE DESCRIPTION (FROM GDOT COLLISION REPORT DATED 3-08-06 AND BRIDGE INSPECTION REPORT DATED 3-25-08):

- SPAN 2 - BEAM 1 HAS IMPACT DAMAGE OF UP TO 4" SWEEP. REPLACE 6 BOLTS AT FIRST DIAPHRAGM AND 2 BOLTS AT SECOND DIAPHRAGM CONNECTIONS.
- SPAN 2 - BEAM 3 HAS IMPACT DAMAGE OF UP TO 2" SWEEP. DIAPHRAGM WELD TO CONNECTION PLATE HAS CRACKED (APPROX. 2 3/4" LONG).
- SPAN 2 - BEAM 4 HAS IMPACT DAMAGE OF UP TO 2" SWEEP. DIAPHRAGM WELD TO CONNECTION PLATE HAS CRACKED. POSSIBLE CRACK IN FILLET BETWEEN WEB AND BOTTOM FLANGE.
- SPAN 3 - BEAM 1 HAS A 3" SWEEP AT THE RIGHT AND LEFT NORTH BOUND LANE 15'-10" VERTICAL AT IMPACT. DISTORTED AREA IN TOP OF WEB WHERE PAINT HAS FAILED. REPLACE 2 BOLTS AT DIAPHRAGM CONNECTION.
- SPAN 3 - BEAM 2 HAS A 1" TO 2" SWEEP INCLUDING OTHER MINOR NICKS. REPLACE 3 BOLTS AT DIAPHRAGM CONNECTION.
- SPAN 3 - BEAM 3 HAS A 3" SWEEP OVER RIGHT NORTH BOUND LANE 16'-1" VERTICAL AT IMPACT. WELD BETWEEN COVER PLATE AND BOTTOM FLANGE HAS CRACKED (APPROX. 7 3/4" LONG). REPLACE 6 BOLTS AT DIAPHRAGM CONNECTION. DIAPHRAGM IS RESTING ON BOTTOM FLANGE.
- SPAN 3 - BEAM 4 HAS IMPACT DAMAGE OF UP TO 3" SWEEP. TOP FLANGE HAS DETACHED FROM COPING FOR APPROXIMATELY 3/4 OF SPAN LENGTH. COPING HAS SPALLED IN NUMEROUS LOCATIONS. WELD BETWEEN COVER PLATE AND BOTTOM FLANGE HAS CRACKED (APPROX. 14" LONG). DIAPHRAGM WELD TO CONNECTION PLATE HAS CRACKED. REPLACE 2 BOLTS AT DIAPHRAGM CONNECTION.

SPECIFICATIONS - GEORGIA STANDARD SPECIFICATIONS, 2001 EDITION, AND 2008 SUPPLEMENTAL SPECIFICATIONS AS MODIFIED BY CONTRACT DOCUMENTS.

CHAMFER - CHAMFER ALL EXPOSED CONCRETE EDGES 3/4" UNLESS OTHERWISE NOTED.

EXISTING BRIDGE PLANS - ORIGINAL BRIDGE PLANS MAY BE PURCHASED BY CONTACTING THE PLANS REPRODUCTION OFFICE AT (404) 347-0530. THE ORIGINAL BRIDGE WAS BUILT UNDER PROJECT NUMBER F-034-3(3).

DIMENSIONS AND ELEVATIONS - VERIFY ALL DIMENSIONS AND ELEVATIONS IN THE FIELD PRIOR TO ORDERING MATERIAL OR BUILDING FORMS.

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

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

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

TRAFFIC CONTROL - GA.STD. 9106 SHALL BE USED TO DIVERT TRAFFIC UNDER THE BRIDGE.

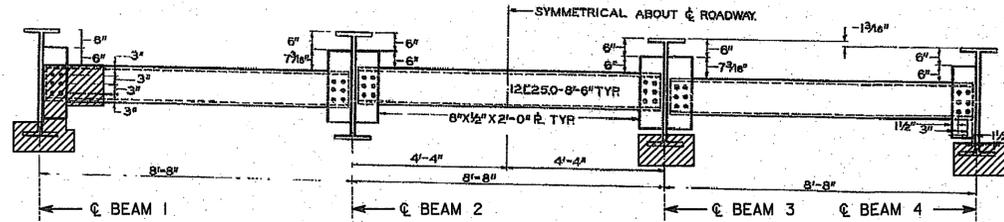
RESTRICTED TRAFFIC - THE OFFICE OF PERMITS AND ENFORCEMENT (404-651-9146) SHALL BE CONTACTED 14 DAYS PRIOR TO LANE CLOSURE SO THAT MOBILE HOMES OR OTHER LARGE LOADS MAY BE REDIRECTED.

PRICE BID FOR TRAFFIC CONTROL - LUMP SUM SHALL INCLUDE, BUT IS NOT LIMITED TO CONSTRUCTION, MAINTENANCE, AND REMOVAL OF TEMPORARY SIGNING AND PAVEMENT MARKINGS, BARRICADES, PRECAST CONCRETE MEDIAN BARRIERS, CHANNELIZING DEVICES, ETC. REQUIRED FOR MAINTENANCE OF TRAFFIC DURING CONSTRUCTION. ALL TEMPORARY SIGNING AND MARKING SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" CURRENT EDITION AND/OR AS DIRECTED BY THE ENGINEER.

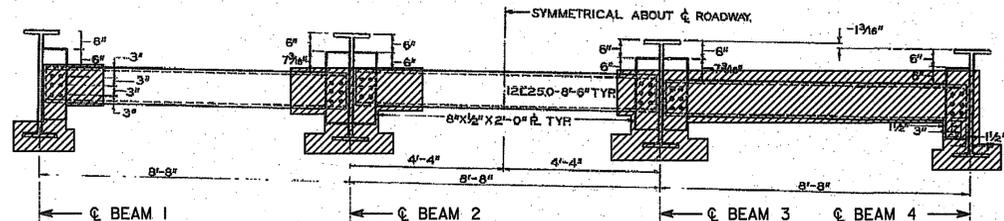
SEQUENCE OF OPERATION - STAGE CONSTRUCTION WILL BE REQUIRED IN ORDER TO MAINTAIN TRAFFIC THROUGHOUT THE PROJECT. SEE "SPECIAL PROVISION SECTION 150 -TRAFFIC CONTROL".

UTILITIES - ANY DAMAGE THAT OCCURS TO EXISTING UTILITIES AS A RESULT OF BEAM REPAIR SHALL BE REPAIRED AT NO EXPENSE TO THE STATE. SEE GEORGIA SPECIFICATION SUB-SECTION 107.21.

PAINTING - ALL STRUCTURAL MEMBERS REQUIRING STRAIGHTENING AND/OR REPAIRS SHALL BE PAINTED USING SYSTEM XI PAINT SYSTEM, ALL PAINTING WILL BE IN ACCORDANCE WITH SECTION 535 OF THE SUPPLEMENTAL SPECIFICATIONS. THE COST OF PAINTING SHALL BE INCLUDED IN THE OVERALL BID.



STEEL DIAPHRAGM - SPAN 2  
NOT TO SCALE



STEEL DIAPHRAGM - SPAN 3  
NOT TO SCALE

INDICATING DAMAGED BEAMS AND STEEL DIAPHRAGMS REQUIRING REPAIR.

NOTES:

- TYPICAL SECTIONS SHOWN ARE FROM EXISTING BRIDGE PLANS.
- BID ITEM 999-0030 INCLUDES HEAT STRAIGHTENING AND REPAIR OF DAMAGED BEAMS AND AFFECTED CROSS FRAMES, CONNECTION PLATES, BOLTS, WELDS, ETC. AS DIRECTED BY THE ENGINEER.
- ALL BOLTS TO BE REPLACED ARE 3/4" Ø.

BRIDGE NO. 1

**URS** URS CORPORATION  
 400 NORTH PARK TOWN CENTER  
 1000 ABERNATHY ROAD, N. E.  
 SUITE 900  
 ATLANTA, GA 30328  
 TEL: (678) 808-8800  
 FAX: (678) 808-8400

GEORGIA  
**DEPARTMENT OF TRANSPORTATION**  
 OPERATIONS DIVISION-OFFICE OF MAINTENANCE

GENERAL NOTES  
 STEEL BEAM REPAIR ON  
 SR 49 (US 41) OVER SR 247 (US 129)  
 BIBB COUNTY CSSTP-M003-00(736)

SCALE: NO SCALE DECEMBER 2008

|              |                          |              |
|--------------|--------------------------|--------------|
| DESIGNED CAV | CHECKED RSC              | REVIEWED CBB |
| DRAWN CAV    | DESIGN GROUP MAINTENANCE | APPROVED MLC |

BRIDGE SHEET  
 2 OF 2

| REVISIONS | DATE |
|-----------|------|
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