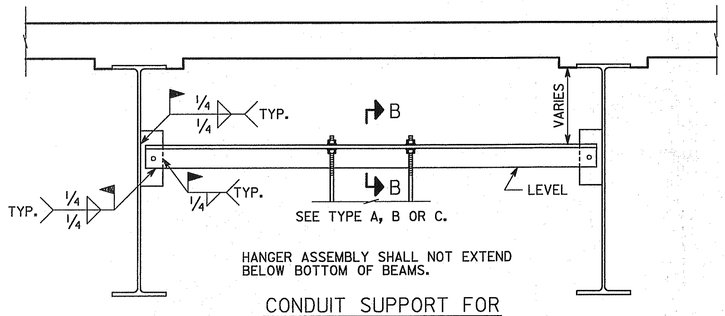
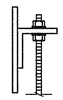
| STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|
| GA. | CM-285-1(361) | 131 | 234 |




HANGER ASSEMBLY SHALL NOT EXTEND BELOW BOTTOM OF BEAMS.

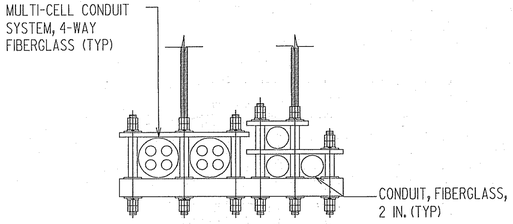
CONDUIT SUPPORT FOR STEEL BEAMS OR GIRDERS



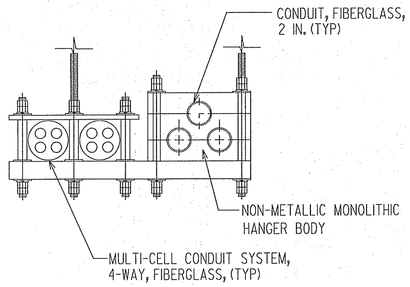
SECTION B-B

**FIGURE 1**

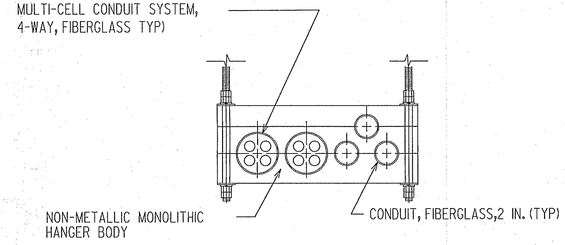
I-285 OVER COLLIER DRIVE
I-285 OVER PROCTOR CREEK
I-285 OVER CHATTAHOOCHEE RIVER
I-285 OVER NORFOLK SOUTHERN RAILWAY SPUR
I-285 OVER NORFOLK SOUTHERN RAILWAY
SOUTH COBB DRIVE OVER I-285
I-285 OVER CHURCH ROAD
I-285 OVER CSX RAILROAD
I-285 OVER US 41




HANGER/CONDUIT CONFIGURATION DETAIL-TYPE A
NO SCALE




HANGER/CONDUIT CONFIGURATION DETAIL-TYPE B
NO SCALE




HANGER/CONDUIT CONFIGURATION DETAIL-TYPE C
NO SCALE

## NOTES

COMMUNICATION CONDUIT SHALL BE INSTALLED BY THE CONTRACTOR ON THE FOLLOWING BRIDGES:

1. I-285 OVER COLLIER DRIVE ----------( BRIDGE NO. 2L AND 2R )
2. I-285 OVER PROCTOR CREEK ----------( BRIDGE NO. 4L AND 4R )
3. I-285 OVER CHATTAHOOCHEE RIVER ----------( BRIDGE NO. 5L AND 5R )
4. I-285 OVER SOUTHERN RAILWAY SPUR ----------( BRIDGE NO. 6L AND 6R )
5. I-285 OVER SOUTHERN RAILWAY ----------( BRIDGE NO. 7L AND 7R )
6. SOUTH COBB DRIVE OVER I-285 ----------( BRIDGE NO. 8 )
7. I-285 OVER CHURCH ROAD ----------( BRIDGE NO. 9L AND 9R )
8. I-285 OVER CSX RAILROAD ----------( BRIDGE NO. 10L AND 10R )
9. I-285 OVER US 41 ----------( BRIDGE NO. 11 AND 2R )

ORIGINAL STRUCTURAL PLANS FOR THESE BRIDGES ARE INCLUDED IN THE COMMUNICATION CONDUIT PLANS. THE PROPOSED CONDUIT LOCATIONS ARE INDICATED ON THE BRIDGE PLAN AND ELEVATION AND DECK PLAN SHEETS. BRIDGE DECK CROSS SECTION, BACKWALL, ENDWALL, EDGE BEAM, AND DIAPHRAGM DETAILS ARE INCLUDED FOR INFORMATION ONLY. CONTRACTOR SHALL CHOOSE ONE OF THE HANGER/CONDUIT CONFIGURATIONS SHOWN ON THIS SHEET (TYPE A, TYPE B, OR TYPE C) AND SHALL USE THE SAME CONFIGURATION TYPE ON ALL BRIDGES ON THIS PROJECT. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE DEPARTMENT DETAILING HIS METHODS OF ATTACHING THE CONDUIT TO EACH BRIDGE. AS A MINIMUM, THE DETAILS SHALL INCLUDE THE FOLLOWING:

1. HANGER DETAILS FOR ATTACHMENT TO THE BRIDGE INCLUDING MATERIALS, HANGER SPACING, AND METHODS OF ATTACHMENT TO THE BRIDGE.
2. LOCATION AND SIZE OF OPENINGS FOR GOING THROUGH THE BRIDGE BACKWALLS, ENDWALLS, AND CONCRETE DIAPHRAGMS.
3. PROVISION FOR HANDLING CONFLICTS WITH EXISTING UTILITIES, BRIDGE DRAINAGE STRUCTURES, ETC. WHERE APPLICABLE.

THE ABOVE DETAILS SHALL BE IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:

1. ALL STEEL COMPONENTS, UNLESS OTHERWISE NOTED, SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM-A123 OR ASTM-A153. REPAIRS TO GALVANIZING SHALL BE IN ACCORDANCE WITH THE GEORGIA DOT SPECIFICATIONS.
2. THE CONDUIT SHALL BE SUSPENDED BELOW ALL EDGE BEAMS AND DIAPHRAGMS EXCEPT FOR CONCRETE DIAPHRAGMS ON BRIDGE NO.S 5L, 5R, 11, AND 2R. THE CONDUIT SHALL NOT EXTEND BELOW THE BOTTOM OF THE BRIDGE BEAMS.
3. SIZE OF OPENINGS THROUGH BACKWALLS, ENDWALLS, AND CONCRETE DIAPHRAGMS SHALL BE KEPT TO A MINIMUM.
4. CONCRETE ANCHORS MAY BE STAINLESS STEEL IN LIEU OF GALVANIZED CARBON STEEL.
5. ATTACHMENTS TO BRIDGES SHALL BE IN ACCORDANCE WITH FIGURE 1 AND THE FOLLOWING:
   A. ALL GUSSET PLATES OR ANGLES WHICH ATTACH DIRECTLY TO BEAM OR GIRDER WEBS SHALL BE ASTM A709 GRADE 36 STEEL AND SHALL BE PAINTED USING SYSTEM VI OF THE GEORGIA DOT SPECIFICATIONS.
   B. WELDING SHALL CONFORM TO SECTION 501.05 OF THE GEORGIA DOT SPECIFICATIONS. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS THAT HAVE IN THEIR POSSESSION A CURRENT WELDING CERTIFICATION CARD ISSUED BY THE GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE OF MATERIALS AND RESEARCH.

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

GEORGIA
DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

BRIDGE ATTACHMENTS FOR CONDUITS
I-285 FROM I-20W TO I-75N
FULTON-COBB COUNTIES CM-285-1(361)

NO SCALE OCTOBER 2004

BRIDGE SHEET 1 OF 1

| DESIGNED | WEI | CHECKED | WEI | REVIEWED | JPT/MCD |
|---|---|---|---|---|---|
| DRAWN | KWK | DESIGN GROUP | WEI | APPROVED | PVL |

FC713370.DGN