**COMPONENTS OF CONTRACT PLANS SET**

**BRIDGE REPAIR PLANS**

**INDEX OF BRIDGE REPAIR PLANS**

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**GOVERNING STANDARDS AND SPECIFICATIONS**

FLORIDA DEPARTMENT OF TRANSPORTATION FY 2017-18 DESIGN STANDARDS AND REVISED INDEX DRAWINGS AS APPENDED HEREFOR AND FY 2017-18 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AS AMENDED BY CONTRACT DOCUMENTS AND THE CITY OF TAMPA.
GENERAL NOTES

1. PROJECT LOCATION
BRIDGE NUMBER 103660 IS LOCATED BETWEEN DAVIS ISLAND BLVD & MARSHORE BLVD OVER UPPER HILLSBOROUGH BAY AND CARRIES PLANT AVE OVER THE UPPER HILLSBOROUGH BAY.

2. DESIGN SPECIFICATIONS:
A. FDOT STRUCTURES MANUAL, JANUARY 2018
B. AASHO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH EDITION
C. AASHO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 17TH EDITION

3. DESIGN LOADING AND METHOD:
LIVE LOADS: HL-93 FOR JACKING
          MS-20 FOR CONNECTION AND MEMBER DESIGN
          PEDESTRIAN LOADING: 75 PLF
DEAD LOADS: SIDEWALK 352 PLF
            WALL 504 PLF

4. SCOPE OF WORK:
A. CLEAN AND COAT ALL STRUCTURAL STEEL AS DETAILED IN THIS PLAN SET
B. STRUCTURAL STEEL REPAIR OF BEAMS 10-2, 10-3, 10-8 & 10-5
C. STRUCTURAL STEEL REPAIR OF EXISTING UTILITIES SUPPORT

5. CONSTRUCT STAGING AND WORK AREAS:
A. CONSTRUCTION ACCESS IS LIMITED UNLESS APPROVED BY THE ENGINEER.
B. DELIVERY OF MATERIAL AND EQUIPMENT WILL REQUIRE THE USE OF WATER 
   BORNE CRAFT AND OFF SITE STAGING AREA PROVIDED BY THE CONTRACTOR.
C. NO ADDITIONAL COMPENSATION WILL BE PAID FOR SPECIAL DELIVERY 
   REQUIREMENTS OR THE OFF SITE STAGING AREA.

6. MISCELLANEOUS:
A. POLLUTION PREVENTION CONTROL:
   1. PRIOR TO ANY WORK ACTIVITIES ON THE STEEL BEAMS, AND BEARING 
      PLATES, A POLLUTION CONTROL PLAN MUST BE APPROVED BY THE 
      ENGINEER.
   2. THE CONTRACTOR SHALL MAINTAIN APPROPRIATE SKIMMERS AND 
      ABSORBENT MATERIALS AT THE WORK AREA FOR IMMEDIATE 
      DEPLOYMENT IN THE EVENT OF AN ACCIDENTAL SPILL.
   3. THE CONTRACTOR SHALL TAKE ALL RESPONSIBLE PRECAUTIONS TO 
      PREVENT UNAUTHORIZED MATERIALS FROM ENTERING THE 
      WATERWAY. THE CONTRACTOR SHALL IMMEDIATELY REMOVE DEBRIS 
      THAT FALLS IN WATER AND GROUND AT HIS OWN EXPENSE.
   4. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND DISPOSAL 
      OF ALL CONSTRUCTION MATERIALS FROM THE PROJECT SITE.
   5. ALL WASTE MATERIALS COLLECTED SHALL BE PROPERLY DISPOSED 
      OF BY THE CONTRACTOR IN ACCORDANCE WITH ALL LOCAL, STATE, 
      AND FEDERAL REQUIREMENTS. A CONTAINMENT AND DISPOSAL PLAN 
      SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO 
      START OF WORK.
   B. MAINTENANCE OF VEHICULAR TRAFFIC:
   1. LANE CLOSURES ON THE ROADWAY AND DETOUR OF TRAFFIC IS NOT 
      ALLOWED.
   C. EXISTING STRUCTURES:
   1. ALL DIMENSIONS SHOWN WERE TAKEN FROM ORIGINAL CONSTRUCTION 
      PLANS AND REHABILITATION DRAWINGS, UNLESS OTHERWISE NOTED, 
      AND MAY NOT REPRESENT THE AS-BUILT CONDITIONS. THE 
      CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL 
      DIMENSIONS AND CONDITIONS REQUIRED TO PERFORM THE REPAIR 
      WORK PRIOR TO ORDERING MATERIALS AND STARTING THE REPAIR 
      WORK. ANY DISCREPANCIES FROM THE DIMENSIONS SHOWN IN THE 
      CONTRACT PLANS OR FAILURE BY THE CONTRACTOR TO VERIFY 
      DIMENSIONS SHALL NOT BE JUSTIFICATION FOR ADDITIONAL 
      COMPENSATION. SHOP DRAWINGS SHALL REFLECT ACTUAL FIELD 
      DIMENSIONS.
   2. EQUIPMENT OR MATERIAL SHALL NOT BE TIED TO OR PLACED UPON 
      ANY PART OF THE EXISTING BRIDGE DURING CONSTRUCTION 
      ACTIVITIES WITHOUT PRIOR APPROVAL OF THE ENGINEER
   D. PRE-CLEANING: PRE-CLEANING SHALL BE CONDUCTED TO REMOVE 
      SURFACE CONTAMINANTS IN ACCORDANCE WITH FOOT 
      SPECIFICATIONS 561.
   E. SURFACE PREPARATION SHALL BE SSPC SP 10.
   F. ALL COATINGS SHALL BE FROM THE APPROVED PRODUCTS LIST (APL).
   G. COATING MATERIALS:
      1. PRIMER COAT: ORGANIC ZINC RICH EPOXY
      2. INTERMEDIATE COAT: EPOXY WID COAT
      3. TOP COAT: ALIPHATIC POLYURETHANE
      4. CLEAR COAT: POLYURETHANE CLEAR COAT WITH DISAPPEARING 
         DYE, FASCIA BEAMS, OUTSIDE FACE AND BOTTOM SURFACE, 
         ONLY.
      5. STRIPE COATING AND CALLING IN: IN ACCORDANCE WITH FOOT 
         SPECIFICATIONS 560.
   H. ALL STRUCTURAL STEEL COATING SHALL TAKE PLACE AFTER 
      STRUCTURAL STEEL HAS BEEN REPAIRED.
   I. FOR ADDITIONAL COATING REQUIREMENTS SEE THE SP561 OF THE 
      CONTRACT DOCUMENTS.
   J. STRUCTURAL STEEL NOTES:
   A. ALL STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 50 
      UNLESS NOTED OTHERWISE.
   B. WELDING SHALL BE IN ACCORDANCE WITH THE CURRENT 
      EDITION OF THE AWS/ASME/OWAS D1.5 WELDING CODE.
      WELD MATERIAL SHALL BE ETA/55.
   C. ANCHOR BOLTS SHALL BE ASTM A307, GALVANIZED BOLTS 
      IN ACCORDANCE WITH ASTM F2329.
   D. CONNECTION BOLTS SHALL BE ASTM A325.
   E. A PRE-PROJECT MEETING IS REQUIRED PRIOR TO BEGINNING JACKING.
   F. AN INSPECTION BY THE ENGINEER IS REQUIRED PRIOR TO & AFTER 
      JACKING HAS TAKEN PLACE.
   G. PAY ITEM NOTES:
   A. ALL COSTS ASSOCIATED TO COMPLETE THE WORK AS SHOWN IN THESE 
      PLANS AND LISTED IN THE PAY ITEMS, SHALL BE INCLUDED IN THE LISTED 
      PAY ITEMS. NO EXTRA PAYMENT WILL BE ALLOWED FOR ITEMS INCIDENTAL 
      TO THE WORK BEING COMPLETED.
### SUMMARY OF STRUCTURE QUANTITIES - BRIDGE 105606

<table>
<thead>
<tr>
<th>PAY ITEM NO.</th>
<th>PAY ITEM DESCRIPTION</th>
<th>UNIT</th>
<th>QUANTITY</th>
</tr>
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<tbody>
<tr>
<td>400-140-2</td>
<td>NEOPRENE PAD REPLACEMENT, ABUTMENT</td>
<td>EA</td>
<td>4</td>
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<tr>
<td>460-1-1</td>
<td>STRUCT STEEL- REHAB, CARBON</td>
<td>LB</td>
<td>1304</td>
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<tr>
<td>460-1-13</td>
<td>STRUCTURAL STEEL REHAB- BOLTS, NUTS, WASHERS &amp; PLATES</td>
<td>LB</td>
<td>128</td>
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<tr>
<td>460-112</td>
<td>ANCHOR BOLT REPLACEMENT</td>
<td>EA</td>
<td>10</td>
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<tr>
<td>561-1</td>
<td>COATING EXISTING STRUCTURAL STEEL</td>
<td>LS/TN</td>
<td>1/27.2</td>
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SCOPE OF WORK:

1. CLEAN AND COAT EXISTING STEEL BEAMS.
2. STEEL GIRDERS REPAIRS.
3. ELECTRICAL CONDUIT TROUGH REPAIRS.
NOTES:
1. BEAMS 10-1, 11-1, 12-1, 13-1, 14-1, 10-7, 11-7, 12-7, 13-7 AND 14-9 ARE CONCRETE. ALL OTHER BEAMS ARE STEEL.
NOTES:

1. FOR LOCATIONS OF REPAIRS AND OTHER INFORMATION NOT SHOWN, SEE PLAN AND ELEVATION, FRAMING PLAN AND ABUTMENT ELEVATION.

2. FOR INFORMATION ON PAINTING OF STEEL BEAMS, SEE GENERAL NOTES.
NOTE:
1. FOR LOCATIONS OF REPAIRS AND OTHER INFORMATION NOT SHOWN, SEE PLAN AND ELEVATION, FRAME PLAN AND SUPERSTRUCTURE SECTION.
2. FOR DETAILS OF LISTED REPAIRS, SEE REPAIR DETAILS SHEETS 8 THRU 11.
3. FOR INFORMATION ON PAINTING OF STEEL BEAMS, SEE GENERAL NOTES.
PROPOSED REPAIRS

JACKING NOTE:
USE JACK CAPABLE OF LIFTING AND HOLDING BY LOCKING OFF JACK AT WORKING LOAD OF 35 TONS AT EACH BEAM
PROVIDE FALSEWORK IN ACCORDANCE WITH A DESIGN SIGNED AND SEALED BY A PROFESSIONAL ENGINEER
REGISTERED IN FLORIDA TO SUPPORT THIS LOAD AT EACH BEAM, LIVE LOAD MAY REMAIN ON BRIDGE DURING JACKING.

FINAL CONDITION

SECTION A-A

ELEVATION AT ABUTMENT 10
PROPOSED REPAIRS - UTILITY TROUGH

NEW MC10x28.5 SECTION W/ BOLTED CONNECTION TO EXISTING W12x27 UTILITY BEAM
NEW 3/8" Ø CONNECTION BOLTS (TYP.)
NEW ANGLE W/ BOLTED THROUGH CONNECTION
NEW UTILITY SUPPORT BRACKET & ANCHOR BOLTS

SECTION A-A

FINAL CONDITION - UTILITY TROUGH

NOTES:
1. UTILITIES, UTILITY BEAMS, METAL TROUGH & UTILITY BRACKETS ARE SHOWN SCHEMATICALLY ONLY. CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD.
2. REPAIRS TO BE MADE ONLY AT ONE UTILITY BEAM INDICATED.
3. THE CONTRACTOR SHALL SUPPORT THE THE UTILITY AND REMAINING PORTION OF BEAM PRIOR TO THE REPAIRS BEGINNING.