GENERAL NOTES:

This Standard is only applicable to the current FDOT inventory of temporary bridge components which are manufactured in accordance with AASHTO M320, Double Wide design.

Work this Standard with Index Nos. 21610, 21620, 21630 and 21640.

STRUCTURAL STEEL:
Steel Plates and Rolled Sections shall be ASTM A709 Grade 36. Pipe piles shall be ASTM A672 Grade 2, Fy = 35 ksi.

BOLTS, LAG SCREWS AND THREADED BOLT STOCK:
Furnish high strength bolts in accordance with ASTM F3125 Grade A325 Type 1. Furnish Threaded Stock in accordance with ASTM A68. Furnish Lag Screws in accordance with ASTM A307. Furnish steel washers and nuts compatible with Bolts, Threaded Stock and Lag Screws.

TIMBER AND LAGGING:
Timber and Lagging shall be No. 1 Southern Yellow Pine.

BACKWALL BENT PILES:
- Timber Piles:
  - 10' Minimum Embedment into compacted backfill or into soil having a blow count greater than 6 (K=6).
  - Ultimate Capacity greater than 18 tons.
  - Splices are not allowed on any timber piles.

- H-Piles:
  - 12' Minimum Embedment into compacted backfill or into soil having a blow count greater than 6 (K=6).
  - Ultimate Capacity greater than 18 tons.
  - Shims admissible between backwall pile and cap.
  - Test piles are not required for backwall piles.

EXPANSION BEARINGS:
Inspect the PTFE (Teflon) layer and stainless steel plate prior to installation.
Do not use bearings that have a severely damaged or unbonded PTFE layer.
Clean PTFE of all grit and grime prior to installation.
Clean Stainless steel plate of all grit and grime prior to installation and finish to a smooth buffed surface.

DISTRIBUTING BEAMS:
Longitudinal stops restraining the distributing beams may be lengthened or shortened to center the distributing beam bearing on the cap beam.
The longitudinal stops are to be on the distributing beam end frame.

EXPANSION JOINT SETTINGS:
Install the expansion joint, considering the total continuous bridge length, location of fixed bearings and ambient temperature at the time of installation, assume a 1' expansion joint opening at 70 degrees F.

STORAGE FACILITY:
Contact
7307 Statewide Aluminum Shop
2590 Camp Rd.
Orlando, FL
407-977-6520
For shipping weights and dimensions of Temporary Bridge elements.

SHIPPING WEIGHTS AND DIMENSIONS:

<table>
<thead>
<tr>
<th>Type</th>
<th>Length</th>
<th>Width</th>
<th>Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curb</td>
<td>5</td>
<td>6'-9&quot;</td>
<td>800</td>
</tr>
<tr>
<td>Curb</td>
<td>10</td>
<td>6'-9&quot;</td>
<td>1420</td>
</tr>
<tr>
<td>Curb</td>
<td>15</td>
<td>6'-9&quot;</td>
<td>2200</td>
</tr>
<tr>
<td>Curb</td>
<td>20</td>
<td>6'-9&quot;</td>
<td>2800</td>
</tr>
<tr>
<td>Non-Curb 5</td>
<td>5'-3&quot;</td>
<td></td>
<td>650</td>
</tr>
<tr>
<td>Non-Curb 10</td>
<td>5'-3&quot;</td>
<td></td>
<td>1000</td>
</tr>
<tr>
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<td>5'-3&quot;</td>
<td></td>
<td>1400</td>
</tr>
<tr>
<td>Non-Curb 20</td>
<td>5'-3&quot;</td>
<td></td>
<td>2100</td>
</tr>
</tbody>
</table>

Shipping weights and dimensions of other bridge components can be referenced in “Appendix Panel Bridging, Series 300, Technical Handbook”.

TRAFFIC RAILING NOTES:
See Index 400 for component details, geometric layouts and associated notes not fully detailed herein.

CONCRETE:
Concrete for Transition Blocks shall be Class II (Bridge Deck).

THREE-BEAM PANEL:
Steel Three-Beam Elements shall meet the requirements of AASHTO M180, Type II (Zinc coated).

BOLTS, NUTS AND WASHERS:
Furnish high strength bolts in accordance with ASTM F3125 Grade A325 Type 1.
Furnish Threaded Stock in accordance with ASTM A68. Furnish Lag Screws in accordance with ASTM A307.
Furnish steel washers and nuts compatible with Bolts, Threaded Stock and Lag Screws.

WOOD BLOCKS:
All wood blocks, including required wedge shaped blocks shall be Pressure Treated lumber in accordance with Specifications Section 955. Bolt holes in blocks to be centered (±1/4”).

COATINGS:
All Nuts, Bolts, Anchors, Washers and Backer Plates shall be hot-dip galvanized in accordance with the Specifications.

APPLICATIONS:
For shipping weights and dimensions of other bridge components can be referenced in “Appendix Panel Bridging, Series 300, Technical Handbook”.

WORK:
Concrete for Transition Blocks shall be Class II (Bridge Deck).

GEO-METRIC LAYOUTS:
See Index 400 for component details, geometric layouts and associated notes not fully detailed herein.

CONCRETE:
Concrete for Transition Blocks shall be Class II (Bridge Deck).

LOADS:
Loadshall be in accordance with AASHTO M180.

BOLTS, NUTS AND WASHERS:
Furnish high strength bolts in accordance with ASTM F3125 Grade A325 Type 1.
Furnish Threaded Stock in accordance with ASTM A68. Furnish Lag Screws in accordance with ASTM A307.
Furnish steel washers and nuts compatible with Bolts, Threaded Stock and Lag Screws.

WOOD BLOCKS:
All wood blocks, including required wedge shaped blocks shall be Pressure Treated lumber in accordance with Specifications Section 955. Bolt holes in blocks to be centered (±1/4”).

PAYMENT:
Temporary Detour Bridge is to be paid for under Contract Unit Price for Special Detour.

If a temporary bridge system other than that shown herein is used, the Contractor is responsible for renting or purchasing their own system. Payment for Temporary Detour Bridge is to be paid for under Contract Unit Price for Special Detour.

Furnish and install Bridge Three-Beam Panels and all associated hardware as shown.
Payment will be made with the Temporary Detour Bridge under the Pay Item Special Detour, LS. Turn over Bridge Three-Beam Panels and all associated hardware to the Department with the Detour Bridge components per Specifications Section 102-6.
AB22 Distributing Beams with AB23 Distributing Beam End Frame (Typ.)

AB306 Transom DW (Typ.)

AB13 Swaybrace Standard (Typ.)

TEMPORARY DETOUR BRIDGE

GENERAL NOTES AND DETAILS

07/01/15

AB2 Raker Bar

AB1 Truss Panels (Typ.)

AB7 & AB8 Bearings (Expansion Bearing shown, Fixed Bearing similar) (Typ.)

Offset Block

Thrie-Beam Panel See Index 21640.

AB505C Distributing Beam Stop (Typ.)

AB408 Transom DW (Typ.)

Steel Grid Deck & Curb

AB51 Panel Pins (Top & Bottom Typ.)

AB3 Bracing Frame (Typ.)

Contractor supplied Foundation components, including Bearing Saddles, Keepers, Shims, Head Plates, and Bents & Shells.

F D O T  supplied Temporary Bridge Components including Fixed & Expansion Bearings, Girders, Panels, Braces & Shells.

FDOT supplied Foundation components, including Bearing Saddles, Keepers, Shims, Head Plates, and Bents & Shells.

Timber Bents shown for illustration purposes. See Plans for actual Bent Designs, including Pile sizes and spacing, bent cap and bracing requirements.

TYPICAL SECTION THRU DETOUR BRIDGE AT INTERIOR BENTS (TYPICAL SECTION AT END BENTS SIMILAR WITHOUT DISTRIBUTING BEAMS)

(TIMBER PILES SHOWN, STEEL H PILES AND STEEL PIPE PILES SIMILAR)
DETAILS FOR FDOT SUPPLIED FIXED BEARINGS

PLAN VIEW

VIEW A-A

DETAILS FOR FDOT SUPPLIED EXPANSION BEARINGS

PLAN VIEW
Grade Beam Details

GRADE BEAM DETAILS

PLAN VIEW

ELEVATION VIEW

ANCHOR PLATE DETAIL

GENERAL NOTES AND DETAILS

REFERENCE SHEET

INDEX NO.

21600

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DESCRIPTION:

FY 2017-18

TEMPORARY DETOUR BRIDGE

DESIGN STANDARDS