GENERAL NOTES:

This Standard is only applicable to the current FDOT inventory of temporary bridge components which are manufactured in accordance with Acrow Series 300, 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 A252 Grade 2, Fy = 35 ksi.

BOLTS, SCREWS AND THREADED BOLT STOCK:

Furnish high strength bolts in accordance with ASTM A325. Furnish threaded stock in accordance with ASTM A49. Furnish lag screws in accordance with ASTM A307. Furnish screw 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:
1. Minimum Embedment into compacted backfill or into soil having a blow count greater than 6 (N>6).
2. Ultimate Capacity greater than 18 tons.
Splices not allowed on any timber piles.

H-Piles:
1. Minimum Embedment into compacted backfill or into soil having a blow count greater than 6 (N>6).
2. 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 bear 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.

SHIPPING WEIGHTS AND DIMENSIONS:

Decking Sizes:

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

Shipping weights and dimensions of other bridge components can be referenced in “Acrow 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: Bolts, nuts and round washers shall be in accordance with AASHTO M180, Type II (Zinc coated).

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

STEEL PLATES AND ROLLED SECTIONS: Steel Plates and Rolled Sections shall be ASTM A709 Grade 36.

STRUCTURAL STEEL:

Pipe piles shall be ASTM A252 Grade 2, Fy = 35 ksi.

LEARN MORE:

This Standard is only applicable to the current FDOT inventory of temporary bridge components which are manufactured in accordance with Acrow Series 300, Double Wide Design.
AB306 Transom DW (Typ.)

1'-6" 25'-6"

24'-0" Clear Roadway Width

AB1 Truss Panels (Typ.)

AB3 Bracing Frame (Typ.)

Toe of Fill Slope

Edge of Berm

1 : 1½ *

4" x 10" Timber Lagging with Filter Fabric

Grade Beam

1 : 1½ *

Retainer Angles (Typ.)

4" x 10" Timber Lagging with Filter Fabric

4" x 10" Timber Lagging with Filter Fabric

Grade Beam

 Shoulder Line (see Plans for width requirements, Typ.)

AB5 or AB6 End Post (Typ.)

1 : 1½ *

AB13 Swaybrace Standard (Typ.)

TYPICAL PLAN VIEW OF DETOUR BRIDGE

(TIMBER PILES SHOWN, STEEL H PILES AND STEEL PIPE PILES SIMILAR)

Begin or End Detour Bridge

(Thrie-Beam Panel not shown for clarity, See Index 21640)

* or Flatter

General Notes and Details

07/01/15

2016 DESIGN STANDARDS

TEMPORARY DETOUR BRIDGE

INDEX NO. 21600

SHEET NO. 2 of 7

REVISION

DESCRIPTION:

07/01/15

2016 DESIGN STANDARDS

TEMPORARY DETOUR BRIDGE

INDEX NO. 21600

SHEET NO. 2 of 7

REVISION

DESCRIPTION:
ELEVATION VIEW
(TMIPERI PILES SHOWN, STEEL H PILES AND STEEL PIPE PILES SIMILAR)
(Thrie-Beam Panel not shown for clarity. See Index 21640)

End Span 30'-0" Min. (30'-4\(\frac{1}{2}\)" to \(\xi\) Bearing); 60'-0" Max. (60'-4\(\frac{1}{2}\)" to \(\xi\) Bearing)

Intermediate Spans 30'-0" Min.; 60'-0" Max.
(\(\xi\) Bearing to \(\xi\) Bearing)

DESIGN STANDARDS

TEMPORARY DETOUR BRIDGE

GENERAL NOTES AND DETAILS

07/01/15

2016

REV. 3

INDEX NO. 21600

SHEET NO. 3 of 7
Timber Bent shown for illustration purposes. See Plans for actual Bent Designs, including Pile sizes and spacing, bent cap and bracing requirements.

AB1 Truss Panels (Typ.)

AB2 Raker Bar

AB3 Bracing Frame (Typ.)

AB3 Dismounted DW (Typ.)

AB3 Swaybrace Standard (Typ.)

AB505C Distributing Beam Stop (Typ.)

AB51 Panel Pins (Top & Bottom Typ.)

AB505C Distributing Beam Stop (Typ.)

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

AB13 Swaybrace Standard (Typ.)

Steel Grid Deck & Curb

Offset Block

Thrie-Beam Panel

See Index 21640.

F DOT supplied Temporary Bridge Components including Fixed & Expansion Bearings, Steel Grid Deck & Curb, Offsets for Detour Bridge.

Contra supplied foundation components, including Bearing Saddles, Keepers, & Shims, Trusses & Bearings.

Thrie-Beam Panel

See Index 21640.

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

AB13 Swaybrace Standard (Typ.)

AB505C Distributing Beam Stop (Typ.)

AB1 Truss Panels (Typ.)

AB2 Raker Bar

AB3 Bracing Frame (Typ.)

AB3 Dismounted DW (Typ.)

AB3 Swaybrace Standard (Typ.)

AB505C Distributing Beam Stop (Typ.)

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

AB13 Swaybrace Standard (Typ.)

Steel Grid Deck & Curb

Offset Block

Thrie-Beam Panel

See Index 21640.

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Thrie-Beam Panel

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AB3 Bracing Frame (Typ.)

AB3 Dismounted DW (Typ.)

AB3 Swaybrace Standard (Typ.)

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AB13 Swaybrace Standard (Typ.)

Steel Grid Deck & Curb

Offset Block

Thrie-Beam Panel

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Thrie-Beam Panel

See Index 21640.
DETAILS FOR FDOT SUPPLIED FIXED BEARINGS

DETAILS FOR FDOT SUPPLIED EXPANSION BEARINGS