GENERAL NOTES:

This Standard is only applicable to the current FDOT inventory of temporary bridge components which are manufactured in accordance with Arrow 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 A 709 Grade 36. Pipe piles shall be ASTM A 252 Grade 2, Fy = 35 ksi.

BOLTS, LAG SCREWS AND THREADED BOLT STOCK:


TIMBER AND LAGGING:

Timber and Lagging shall be No. 1 Southern Yellow Pine.

BACKBEND REINforced PILES:

Timber Piles:

10'- Minimum Embedment into compacted backfill or into soil having a blow count greater than 6 (N=6).

12'- Minimum Embedment into compacted backfill or into soil having a blow count greater than 12 (N=12).

Splices are not allowed on any timber piles.

N-Piles:

12'- Minimum Embedment into compacted backfill or into soil having a blow count greater than 12 (N=12).

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. Inspect the PTFE (Teflon) layer and stainless steel plate prior to installation.

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 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.

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). Plate Washers shall be in accordance with ASTM A36 or ASTM A709 Grade 36.

BOLTS, NUTS AND WASHERS: Bolts, nuts and round washers shall be in accordance with AASHTO M180, Type II (Zinc coated). Plate Washers shall be in accordance with ASTM A36 or ASTM A709 Grade 36. Do not drill Temporary Bridge components to attach Guardrail. Guardrail Bolts shall be placed between Truss members as shown in Index 21640.

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

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 placed between Truss members as shown in Index 21640.

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 Guardrail work and Transition Blocks will be made under Pay Item Temporary Guardrail, LF.

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.

SHIPPING WEIGHTS AND DIMENSIONS:

Decking Sizes:

<table>
<thead>
<tr>
<th>Type</th>
<th>Length</th>
<th>Width</th>
<th>Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curt</td>
<td>5'</td>
<td>6'-9'</td>
<td>800</td>
</tr>
<tr>
<td>Curt</td>
<td>10'</td>
<td>6'-9'</td>
<td>1420</td>
</tr>
<tr>
<td>Curt</td>
<td>15'</td>
<td>6'-9'</td>
<td>2200</td>
</tr>
<tr>
<td>Curt</td>
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<td>650</td>
</tr>
<tr>
<td>NonCurt</td>
<td>10'</td>
<td>3'-3&quot;</td>
<td>1000</td>
</tr>
<tr>
<td>NonCurt</td>
<td>15'</td>
<td>3'-3&quot;</td>
<td>1600</td>
</tr>
<tr>
<td>NonCurt</td>
<td>20'</td>
<td>3'-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".
DESCRIPTION:

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

AB7 Bearing (Expansion Bearing Shown Fixed Bearing Similar)

Grade Beam

4" x 10" Timber Lagging with Filter Fabric

1 : 1½ *

1 : 1½ *

1 : 1½ *

21600 - 2 of 7
**ELEVATION VIEW**

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

(Thrie-Beam Panel not shown for clarity. See Index 21640)
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)
ELEVATION VIEW OF DISTRIBUTING BEAM
(FIXED BEARING SHOWN, EXPANSION BEARING SIMILAR)
(Timber Intermediate Bent shown, Steel Intermediate Bents similar)

Note:
\( \frac{1}{4} \) Bearing may be shifted from \( \frac{1}{4} \) Truss Pins as shown, \( \frac{1}{4} \) Intermediate Bent may be shifted from \( \frac{1}{4} \) Bearing an additional 3' to allow for pile placement tolerances.

VIEW A-A

END VIEW A-A

DISTRIBUTING BEAM END FRAME DETAIL
DESCRIPTION:

GRADE BEAM DETAILS

PLAN VIEW

ELEVATION VIEW

SECTION A-A

GENERAL NOTES AND DETAILS

 FDOT 2014 DESIGN STANDARDS

TEMPORARY DETOUR BRIDGE

INDEX NO. 21600

SHR No. 7 of 7
DESCRIPTION:

**ELEVATION VIEW OF SADDLE PLATE**

**END VIEW**

**PLAN VIEW**

**EXPANSION BEARING DETAILS**

**FIXED BEARING DETAILS**

**FIXED BEARING KEEPER BAR DETAIL**

**EXPANSION BEARING KEEPER BAR DETAIL**

**TEMPORARY DETOUR BRIDGE DETAILS**

**TIMBER PILE FOUNDATIONS**

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**REVISED**

FDOT 2014

DESIGN STANDARDS

TEMPORARY DETOUR BRIDGE DETAILS

TIMBER PILE FOUNDATIONS

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**NO. 21610**

1 of 3
PARTIAL VIEW A-A

PLAN VIEW STEEL PILE CAP ASSEMBLY
(Bearing Plates and Bearing Keeper Bars not show for clarity)

VIEW B-B

VIEW C-C

STRUT CONNECTOR PLATE DETAIL

TEMPORARY DETOUR BRIDGE DETAILS
STEEL PIPE PILE FOUNDATIONS
**FIXED BEARING DETAILS**

**PARTIAL PLAN VIEW**
- 3/4" x 1/2" Fixed Bearing Keeper Bar (Typ.)
- 1/2" Steel Pipe Pile Cap Plate
- Stiffener Plates

**PARTIAL ELEVATION VIEW**
- 3/4" x 1/2" Fixed Bearing Keeper Bar (Typ.)
- 1/2" Steel Pipe Pile Cap Plate
- 2'-2" Ø x 1/2" x 5'-0" Steel Pipe Cap
- 24" Ø Steel Pipe Pile

**NOTE:**
Use Shim Plates as required to provide equal bearing seal elevations across the bent. Vary thickness of Shim Plate across the pile cap plate to provide a level bearing area in the transverse direction.

**DESCRIPTION:**
- Use Shim Plates as required to provide equal bearing seal elevations across the bent. Vary thickness of Shim Plate across the pile cap plate to provide a level bearing area in the transverse direction.
PARTIAL PLAN VIEW

- 3'-4" Truss Panel
- 2'-4" Truss Panel
- 6" x 6" Steel Pipe Pile

Expansion Bearing Assembly shown dashed

Typ. both legs

1/2" x 1/2" Expansion Bearing Keeper Bar (Typ.)
(to bear on face of 1'-0" x 1'-2" Bearing Plate)

Shim Plate when required (see Note)

1/2" Steel Pipe Pile Cap Plate

PARTIAL ELEVATION VIEW

- 1'-6" x 1'-2" Steel Pipe Pile Cap Plate
- 1'-0" x 1'-2" Bearing Plate

Expansion Bearing Keeper Bar Detail

Note:
Use Shim Plates as required to provide equal bearing seat elevations across the bent. Vary thickness of Shim Plate across the pile cap plate to provide a level bearing area in the transverse direction.

ABUTMENT AND INTERMEDIATE EXPANSION BEARING DETAILS
**DESCRIPTION:**

- **Traffic Railing - Class B (10 Gauge)**
- **Thrie-Beam Panels**
- **Begin or End Detour Bridge**
- **Grade Beam**
- **Transition Block**
- **Approach Span**
- **Limit of Payment for Thrie-Beam Panels on Bridge**
- **Limit of Payment for Temporary Guardrail**
- **W-Beam Guardrail See Index 400**

**PARTIAL PLAN - APPROACH TRANSITION**

- **Limits of Payment for Thrie-Beam Panels on Bridge**
- **Limits of Payment for Temporary Guardrail**
- **Approach Span**
- **End Span**
- **Thrie-Beam Panels (Nested)**
- **Transition Block**
- **Approach Span**
- **Limit of Payment for Thrie-Beam Panels on Bridge**
- **Limit of Payment for Temporary Guardrail**

**PARTIAL ELEVATION - APPROACH TRANSITION**

- **Grade Beam**
- **Transition Block**
- **Approach Span**
- **End Span**
- **Thrie-Beam Panels**
- **W-Beam Guardrail See Index 400**

**THRIE-BEAM GUARDRAIL APPROACH TRANSITION**
DESCRIPTION:

LIMITS OF PAYMENT FOR TEMPORARY GUARDRAIL

BEGIN OR END DETOUR BRIDGE

Limit of Payment for Temporary Guardrail

LIMITS OF PAYMENT FOR THRIE-BEAM PANELS ON BRIDGE

TRAILING END TRANSITION APPLICATION DETAILS

THRIE-BEAM GUARDRAIL TRAILING END TRANSITION

ONE-WAY TRAFFIC

TWO-WAY TRAFFIC
Designation: R D 960 D M

Description:

Temporary Detour Bridge

Thrie-Beam Guardrail

Approach Transition using Staked Type K Barrier Units

Limits of Payment for Temporary Barrier Wall

Traffic Railing - Class B

(12 Gauge) Thrie-Beam Panels (Nested)

Begin or End Detour Bridge

End Span

Approach Span

Grade Beam

Grid Deck

Steel Guardrail

Face of Thrie-Beam Guardrail

Stakes (Typ.)

Terminal Connector (Typ.)

Type K Barrier Unit

PARTIAL PLAN - APPROACH TRANSITION SHOWN
(TRAILING END SIMILAR)

PARTIAL ELEVATION - APPROACH TRANSITION SHOWN
(TRAILING END SIMILAR)
Notes:

REINFORCING STEEL: Reinforcing steel shall be ASTM A615, Grade 60.

ANCHOR RODS: Steel Anchor Rods shall be ASTM A36, ASTM A709 Grade 36 or ASTM A615 Grade 60 hot-dip galvanized in accordance with Specification Section 962.