GENERAL NOTES:

This Index 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 Index with Index 102-210, 102-220, 102-230 and 102-240.

STRUCTURAL STEEL:

Steel Plates and Rolled Sections shall be ASTM A709 Grade 36.

Pipe piles shall be ASTM A522 Grade 2, fy = 35 ksi.

BOLTS, LAG SCREWS AND THREADED BOLT STOCK:

Furnish high strength bolts in accordance with ASTM F1554 Grade 105 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 (N>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 (N>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 Stainless steel plate of all grit and grime prior to installation and finish to a smooth buffed surface. Clean PTFE of all grit and grime prior to installation.

EXPANSION BEARING SETTINGS:

The longitudinal stops are to bear on the distributing beam end frame.

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°F expansion joint opening at 70 degrees F.

STORAGE FACILITY:

Contact

FDOT Statewide Aluminum Shop
2590 Camp Rd.
Orlando, Fl.
407-279-2727

For shipping weights and dimensions of Temporary Bridge elements.

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>
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<td>Curb</td>
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<td>6'-4&quot;</td>
<td>850</td>
</tr>
<tr>
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<td>6'-4&quot;</td>
<td>1420</td>
</tr>
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<td>6'-4&quot;</td>
<td>2200</td>
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<tr>
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<td>1000</td>
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<tr>
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<td>5'-3&quot;</td>
<td>1400</td>
</tr>
<tr>
<td>NonCurb</td>
<td>20</td>
<td>5'-3&quot;</td>
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</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 SAE 001 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. Plate Washers shall be in accordance with ASTM A36 or ASTM A709 Grade 36.

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

H-Piles:

Splices are not allowed on any timber piles.

Ultimate Capacity greater than 18 tons.

12' Minimum Embedment into compacted backfill or into soil having a blow count greater than 6 (N>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 Stainless steel plate of all grit and grime prior to installation and finish to a smooth buffed surface. Clean PTFE of all grit and grime prior to installation.

EXPANSION BEARING SETTINGS:

The longitudinal stops are to bear on the distributing beam end frame.

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°F expansion joint opening at 70 degrees F.

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

AB22 Distributing Beams with AB23 Distributing Beam End Frame (Typ.)

AB306 Transom DW (Typ.)

AB13 Swaybrace Standard (Typ.)

AB505C Distributing Beam Stop (Typ.)

Contractor supplied foundation components, including Bearing Saddles, Keepers, & Shims.

FDOT supplied Temporary Bridge Components including Fixed & Expansion Bearings, Guardrail and associated components. See Plans for actual Bent Designs, including Pile sizes and spacing, bent cap and bracing requirements.

AB2 Raker Bar

AB1 Truss Panels (Typ.)

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

AB3 Swaybrace Standard (Typ.)

AB51 Panel Pins (Top & Bottom Typ.)

AB3 Bracing Frame (Typ.)

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

DETAILS FOR FDOT SUPPLIED EXPANSION BEARINGS
AB22 Distributing Beam & Bearing Block (Typ.)

AB23 Distributing Beam End Frame Bracing Bolts

AB505C Distributing Beam Stop (Typ.)

Lateral Alignment Dowels (Typ.)

Note:
- Bearing may be shifted from Truss Pins as shown. Intermediate Bent may be shifted from Bearing an additional 3" to allow for pile placement tolerances.

ELEVATION VIEW OF DISTRIBUTING BEAM (FIXED BEARING SHOWN, EXPANSION BEARING SIMILAR) (Timber Intermediate Bent shown, Steel Intermediate Bents similar)

Intermediate Bent (see Note)

1'-0" ±  Distribution Beam End Frame (Typ. both ends)

Bent Cap & Bearing Plate shown dashed

Expansion Bearings

Bottom of Bearing, Top of Bent Cap or Shim Plate

AB22 Distributing Beam

AB584 Chord Bolts

AR23 Distributing Beam End Frame (Typ. both ends)

AB505C Distributing Beam Stop (Typ. both ends)

Timber Intermediate Bent shown, Steel Intermediate Bents similar

Detour Bridge Superstructure (Truss and Transom members shown dotted)
Grade Beam Timbers

Anchor Plate (see Detail)

Ø Threaded Bar placed @ Strap locations, Torque to 25 Lb.-Ft.

Steel Grid Deck Unit (shown dashed)

Steel Grid Deck Unit (shown dashed)

Deck Hold Down Tabs (Typ.)

Cap Plate Lengths

Spacing Ø Holes for Ø Lag Screws

Cap Plate Lengths

Deck Hold Down Tabs (Typ.)

See Detail "B"

Typ. both ends ±

 dela

DETAIL "B"

OPTIONAL THROUGH BOLT DETAIL
(MAY BE USED IN LIEU OF STRAPS)

GRADE BEAM DETAILS

GENERAL NOTES AND DETAILS

FY 2019-20

STANDARD PLANS

TEMPORARY DETOUR BRIDGE

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**DESCRIPTION:**

**FY 2019-20 STANDARD PLANS**

**TEMPORARY DETOUR BRIDGE TIMBER PILE FOUNDATIONS**

**BACKWALL BENT DETAILS**
**VIEW B-B**  
(SHOWING END OF CAP PLATES)

**PLAN VIEW**

**ELEVATION VIEW**

**HOLD DOWN STRAP ASSEMBLY DETAIL**

**BACKWALL BENT DETAILS**
EXPANSION BEARING DETAILS

PARTIAL ELEVATION VIEW

END VIEW

PARTIAL PLAN VIEW

PARTIAL PLAN VIEW

STANDARD PLANS

STEEL H PILE FOUNDATIONS

TEMPORARY DETOUR BRIDGE DETAILS
Deck Hold Down Straps (Typ.)

6-9" x 10" Timber Lagging

HP 14 x 73 Steel Cap

3/4 x 1 2" x 12-9" Top Cap ℅

ELEVATION VIEW

SECTION A-A

(LAGGING NOT SHOWN FOR CLARITY)

PLAN VIEW

END VIEW

BACKWALL BENT DETAILS

PRESENTATION

LAST

REVISION

DESCRIPTION:

REV

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SHEET

FY 2019-20

TEMPORARY DETOUR BRIDGE DETAILS

STEEL H PILE FOUNDATIONS

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STANDARD PLANS

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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.
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.

Expansion Bearing Assemblies shown dashed
(1/2 x 1/2 Expansion Bearing Keeper Bar (Typ.) to bear on face of Bearing Plates)

Expansion Bearing (shift as required within tolerance)

Stiffener Plates

Bent & Pipe Pile Cap

1/2 Min. x 1-1/2" x 2-4/8" Shim Plate when required (see Note)

PARTIAL PLAN VIEW

PARTIAL ELEVATION VIEW

EXPANSION BEARING KEEPER BAR DETAIL

ABUTMENT AND INTERMEDIATE EXPANSION BEARING DETAILS
LIMITS OF PAYMENT FOR TEMPORARY GUARDRAIL

LIMITS OF PAYMENT FOR THRIE-BEAM PANELS ON BRIDGE

THRIE-BEAM GUARDRAIL TRAILING END TRANSITION
PARTIAL PLAN - APPROACH TRANSITION SHOWN (TRAILING END SIMILAR)

Limits of Payment for
Three-Beam Panels on Bridge
End Span
2'-6"
Approach Span
5'-0"

Approach Transition using Staked Type K Barrier Units

Traffic Railing - Class B
(12 Gauge) Three-Beam Panels

Three-Beam Guardrail Panels (Nested)

Begin or End Detour Bridge
End Bearing

Grade Beam

PARTIAL ELEVATION - APPROACH TRANSITION SHOWN (TRAILING END SIMILAR)

Grade Beam

Terminal Connector (Typ.)

Type K Barrier Unit

Stakes (Typ.)
(See Index 102-110 for details)
**PLAN VIEW OF TRANSITION BLOCK**  
(GUARDRAIL NOT SHOWN FOR CLARITY)

**ELEVATION OF TRANSITION BLOCK**  
(GUARDRAIL AND POSTS NOT SHOWN FOR CLARITY)

**ESTIMATED QUANTITIES**

<table>
<thead>
<tr>
<th>ITEM</th>
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<tr>
<td>Reinforcing Steel</td>
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<td>61</td>
</tr>
<tr>
<td>Guardrail (Reset)</td>
<td>LP</td>
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**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.