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 A 709 Grade 36. Pipe piles shall be ASTM A 252 Grade 2, Fy = 35 ksi.

BOLTS, LAG SCREWS AND THREADERD BOLT STOCK:
Furnish high strength bolts in accordance with ASTM A325. Furnish Threaded stock in accordance with ASTM A326. Furnish Lag Screws in accordance with ASTM A307. Furnish steel washers and nuts compatible with Bolts, Threaded stock and Lag Screws.

TIMBER AND LOGGING:
Timber and logging 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.

N-Piles:
17. 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.

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.

EXPANSION JOINTS:

STORAGE FACILITY:
Contact:
FDOT Statewide Aluminum Shop
2560 Camp Rd.
Oviedo, Fl.
807-977-6520
For shipping weights and dimensions of Temporary Bridge elements.

SHIPPING WEIGHTS AND DIMENSIONS:

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).

THRIE-BEAM PANEL: Steel Thrie-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. 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 Block will be made under Pay Item Temporary Guardrail, LF.

Furnish and install Bridge Thrie-Beam Panels and all associated hardware as shown. Payment will be made with the Temporary Detour Bridge under the Pay Item Special Detour Solid Span. L.S. Turn over Bridge Thrie-Beam Panels and all associated hardware to the Department with the Detour Bridge components per Specifications Section 102-6.

CONTACT:
FDOT Statewide Aluminum Shop
2560 Camp Rd.
Oviedo, Fl.
807-977-6520
**DESCRIPTION:**

- **Grade Beam**
- **25'-6"** 24'-0" Clear Roadway Width
- **1'-6"** 1 : 1b *
- **AB1 Truss Panels (Typ.)**
- **AB3 Bracing Frame (Typ.)**
- **1 : 1b * Toe of Fill Slope**
- **1 : 1b * Edge of Berm**
- **1 : 1b * Retainer Angles (Typ.)**
- **1 : 1b * Shoulder Line (see Plans for width requirements, Typ.)**
- **1 : 1b * Approach Roadway**
- **1 : 1b * AB5 or AB6 End Post (Typ.)**
- **1 : 1b * AB13 Swaybrace Standard (Typ.)**
- **1 : 1b * AB306 Transom DW (Typ.)**
- **1 : 1b * Approach Span**
- **1 : 1b * Ramp Span**
- **1 : 1b * AB7 Bearing (Expansion Bearing shown fixed Bearing Similar)**
- **TYPICAL PLAN VIEW OF DETOUR BRIDGE (TIMBER PILES SHOWN, STEEL II PILES AND STEEL PIPE PILES SIMILAR)**
- **(Thrie-Beam Panel not shown for clarity, See Index 21640)**

**GENERAL NOTES AND DETAILS**

- **THERE ARE NOcasting BEARING SIMILAR**
- **TEMPORARY DETOUR BRIDGE**
- **INDEX NO. 21600 SHEET NO. 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)
GRADE BEAM DETAILS

**SECTION A-A**

**ELEVATION VIEW**

- Grade Beam Timbers 10" x 10" (Nominal)
- 4" x 2-1/2" x 12'-9" Cap R
- 5/8" x 6" Lag Screws (Typ.)
- 5/8" x 9" Lag Screws (Typ.)
- Steel Grid Deck Unit (shown dashed)
- 1/4" x 4" x 2-10" Anchor Plate

**PLAN VIEW**

- Deck Hold Down Tabs (Typ.)
- Grade Beam Straps (Typ.)
- Deck Hold Down Tabs (Typ.)
- Cap R

**ANCHOOR PLATE DETAIL**

- 1/2" Ø Holes (Centered)
- 10" x 10" (Nominal) Grade Beam Timbers
- Steel Grid Deck Unit (shown dashed)
- 10" x 10" (Nominal) Grade Beam Timbers
- 1/2" Anchor Plate (See Detail)
- 1/2" Ø Threaded Bar placed @ Strap locations. Torque to 25 Lb-Ft.

**OPTIONAL THROUGH BOLT DETAIL**

(MAY BE USED IN LIEU OF STRAPS)

- 1/4" x 4" x 2-10" Anchor Plate

**GENERAL NOTES AND DETAILS**

- **DESCRIPTION:**
  - TEMPORARY DETOUR BRIDGE
  - GENERAL NOTES AND DETAILS
  - FDOT 2014
  - DESIGN STANDARDS
  - INDEX NO.: 21600
  - SHEET NO.: 7 of 7