PARTIAL PLAN - APPROACH TRANSITION SHOWN (TRAILING END SIMILAR)

- Limits of Payment for
  - Three-Beam Panels on Bridge
  - Freestanding Type K Barrier Units
  - See Index 414

- Approach Transition using Staked Type K Barrier Units

- Traffic Railing - Class B
- Two 12'-6" - Class A (12 Gauge)
- (10 Gauge) Three-Beam Guardrail Panels (Nested)
- Terminal Connector (Typ.)
- Type K Barrier Unit

PARTIAL ELEVATION - APPROACH TRANSITION SHOWN (TRAILING END SIMILAR)

KEY:
- ☑ Staked
- ☐ Not Staked

DESCRIPTION:
- 2016 DESIGN STANDARDS
- TEMPORARY DETOUR BRIDGE
- THRIE-BEAM GUARDRAIL
- REV NO.
- SHEET NO.
- INDEX NO.
- 21640
**CONSTRUCTION DRAWING**

**DESCRIPTION:**

Temporary Detour Bridge

**THRIE-BEAM GUARDRAIL**

**SECTION A-A**

- Notch offset block to clear pin and channel
- Thrie-Beam Top Bolt
- Steel Grid Deck
- Existing Gusset Plates
- Guardrail Post Offset Blocks as required
- Thrie-Beam Panel Match Front Face of Thrie-Beam Guardrail along bridge
- Approach Span Curb

**SECTION B-B**

- Notch offset block to clear pin and channel
- End Posts Only
- Thrie-Beam Top Bolt
- Steel Grid Deck
- Existing Gusset Plates
- Guardrail Post Offset Blocks as required
- Thrie-Beam Panel Match Front Face of Thrie-Beam Guardrail along bridge
- Approach Span Curb

**SECTION C-C**

- Type K Barrier Unit
- Offset Block
- Thrie-Beam Guardrail
- Type K Barrier Unit
- Thrie-Beam Panel
- Existing Gusset Plates
- Guardrail Post Offset Blocks as required
- Thrie-Beam Panel Match Front Face of Thrie-Beam Guardrail along bridge
- Approach Span Curb

**SECTION D-D**

- Section 11-10'
- Asphalt Pavement
- Steel Grid Deck

**SECTION E-E**

- Asphalt Pavement
- Steel Grid Deck
- Existing Gusset Plates
- Guardrail Post Offset Blocks as required
- Thrie-Beam Panel Match Front Face of Thrie-Beam Guardrail along bridge
- Approach Span Curb

**SECTION F-F**

- Asphalt Pavement
- Steel Grid Deck
- Existing Gusset Plates
- Guardrail Post Offset Blocks as required
- Thrie-Beam Panel Match Front Face of Thrie-Beam Guardrail along bridge
- Approach Span Curb

**SECTION H-H**

- Steel Post Plate Detail

**STEEL POST PLATE DETAIL**

**BACKER PLATE #01 DETAIL**

**BACKER PLATE #02 DETAIL**

**STEEL POST DETAIL**

**NOTES:**

- Rotate to clear Bracing Frame to bear on Truss and End Post.

**SECTION A-A**

- Asphalt Pavement
- Steel Grid Deck
- Existing Gusset Plates
- Guardrail Post Offset Blocks as required
- Thrie-Beam Panel Match Front Face of Thrie-Beam Guardrail along bridge
- Approach Span Curb

**SECTION B-B**

- Asphalt Pavement
- Steel Grid Deck
- Existing Gusset Plates
- Guardrail Post Offset Blocks as required
- Thrie-Beam Panel Match Front Face of Thrie-Beam Guardrail along bridge
- Approach Span Curb

**SECTION C-C**

- Type K Barrier Unit
- Offset Block
- Thrie-Beam Guardrail
- Type K Barrier Unit
- Thrie-Beam Panel
- Existing Gusset Plates
- Guardrail Post Offset Blocks as required
- Thrie-Beam Panel Match Front Face of Thrie-Beam Guardrail along bridge
- Approach Span Curb

**SECTION D-D**

- Section 11-10'
- Asphalt Pavement
- Steel Grid Deck

**SECTION E-E**

- Asphalt Pavement
- Steel Grid Deck
- Existing Gusset Plates
- Guardrail Post Offset Blocks as required
- Thrie-Beam Panel Match Front Face of Thrie-Beam Guardrail along bridge
- Approach Span Curb

**SECTION F-F**

- Asphalt Pavement
- Steel Grid Deck
- Existing Gusset Plates
- Guardrail Post Offset Blocks as required
- Thrie-Beam Panel Match Front Face of Thrie-Beam Guardrail along bridge
- Approach Span Curb

**SECTION H-H**

- Steel Post Plate Detail

**STEEL POST PLATE DETAIL**

**BACKER PLATE #01 DETAIL**

**BACKER PLATE #02 DETAIL**

**STEEL POST DETAIL**

**NOTES:**

- Rotate to clear Bracing Frame to bear on Truss and End Post.

**SECTION A-A**

- Asphalt Pavement
- Steel Grid Deck
- Existing Gusset Plates
- Guardrail Post Offset Blocks as required
- Thrie-Beam Panel Match Front Face of Thrie-Beam Guardrail along bridge
- Approach Span Curb

**SECTION B-B**

- Asphalt Pavement
- Steel Grid Deck
- Existing Gusset Plates
- Guardrail Post Offset Blocks as required
- Thrie-Beam Panel Match Front Face of Thrie-Beam Guardrail along bridge
- Approach Span Curb

**SECTION C-C**

- Type K Barrier Unit
- Offset Block
- Thrie-Beam Guardrail
- Type K Barrier Unit
- Thrie-Beam Panel
- Existing Gusset Plates
- Guardrail Post Offset Blocks as required
- Thrie-Beam Panel Match Front Face of Thrie-Beam Guardrail along bridge
- Approach Span Curb

**SECTION D-D**

- Section 11-10'
- Asphalt Pavement
- Steel Grid Deck

**SECTION E-E**

- Asphalt Pavement
- Steel Grid Deck
- Existing Gusset Plates
- Guardrail Post Offset Blocks as required
- Thrie-Beam Panel Match Front Face of Thrie-Beam Guardrail along bridge
- Approach Span Curb

**SECTION F-F**

- Asphalt Pavement
- Steel Grid Deck
- Existing Gusset Plates
- Guardrail Post Offset Blocks as required
- Thrie-Beam Panel Match Front Face of Thrie-Beam Guardrail along bridge
- Approach Span Curb

**SECTION H-H**

- Steel Post Plate Detail

**STEEL POST PLATE DETAIL**

**BACKER PLATE #01 DETAIL**

**BACKER PLATE #02 DETAIL**

**STEEL POST DETAIL**

**NOTES:**

- Rotate to clear Bracing Frame to bear on Truss and End Post.


**PLAN VIEW OF TRANSITION BLOCK**
(GUARDRAIL NOT SHOWN FOR CLARITY)

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

<table>
<thead>
<tr>
<th>ITEM</th>
<th>UNIT</th>
<th>QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concrete Class NS</td>
<td>CF</td>
<td>3.4</td>
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<tr>
<td>Reinforcing Steel</td>
<td>LB</td>
<td>61</td>
</tr>
<tr>
<td>Guardrail (Reset)</td>
<td>LF</td>
<td>12.5</td>
</tr>
</tbody>
</table>

**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.