PARTIAL PLAN - APPROACH TRANSITION

Limits of Payment for Three-Beam Panels on Bridge

- Traffic Railing - Class B (10 Gauge)
- Three-Beam Panels
- Begin or End Detour Bridge
- Bearing

Limits of Payment for Temporary Guardrail

- Two 12'-6" - Class A (12 Gauge) Thrie-Beam Panel
- 6'-3" Class A (12 Gauge) W-Beam to W-Beam Guardrail See Index 400
- 2'-6" Post Spacing

PARTIAL ELEVATION - APPROACH TRANSITION

Face of Thrie-Beam Guardrail

Grade Beam

Transition Block

Shoulder Line (See Plans for width requirements)

Steel Grid Deck

5'-0" Ramp Span

5'-0" Approach Span

PARTIAL PLAN - APPROACH TRANSITION

THRIE-BEAM GUARDRAIL APPROACH TRANSITION

THRIE-BEAM GUARDRAIL APPROACH TRANSITION
Thrie-Beam Guardrail Trailing End Transition

Limits of Payment for Temporary Guardrail

W-Beam Guardrail See Index 400

Limits of Payment for Thrie-Beam Panels on Bridge

6'-3" Post Spacing (Typ.)

Approach Span

2'-6"

End Span

6'-3" Class A Traffic Railing - Class B (10 Gauge)

(12 Gauge) W-Beam to Thrie-Beam Transition

End Transition Application Details

PARTIAL PLAN - TRAILING END

PARTIAL ELEVATION - TRAILING END

TWO-WAY TRAFFIC

ONE-WAY TRAFFIC

THRIE-BEAM GUARDRAIL TRAILING END TRANSITION

Temporary Detour Bridge

Thrie-Beam Guardrail

Design Standards

FY 2016-17

Index No.

21640

Sheet No.

2 of 6
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"

Traffic Railing - Class B
Two 12'-6" - Class A (12 Gauge)

Three-Beam Guardrail Panels (Nested)

Begin or End Detour Bridge
\( \frac{3}{12} \) Sp.
\( @ \ 1'-6'' \)

End Span

Approach Transition using Staked Type K Barrier Units

Freestanding Type K
Barrier Units
See Index 414

PARTIAL ELEVATION - APPROACH TRANSITION SHOWN
(TRAILING END SIMILAR)

Grade Beam

Grade Beam

Stakes (Typ.)
(See Index 414 for details)

KEY:

☑ Staked

☐ Not Staked
Thrie-Beam Panel Connection Spacing

Traffic Railing - Class B (10 Gauge) Thrie-Beam Panels

2'-6" Approach Span

Thrie-Beam Panel Connection Spacing

Begin or End Detour Bridge

Span

Top of Steel Grid Deck

2'-1"

2'-6"

10'-0"

10'-0"

10'-0"

10'-0"

Varies

Partial Elevation Showing Typical Thrie-Beam Panel Arrangement

Thrie-Beam Expansion Panel (See Detail)

Thrie Beam Top Bolt

Top of Steel Grid Deck

Top Bolt

Thrie Beam Top Bolt

Field Drill

Field Drill

1/8" x 2½" Splice Bolt Slots (Typ.)

1/8" x 3½" Bolt Slots (Typ.)

THRIE-BEAM EXPANSION PANEL DETAIL

Top Bolt

Thrie Beam Top Bolt

Top of Steel Grid Deck

Typical Intermediate Bent

End Bent

Backwall Bent

PARTIAL ELEVATION SHOWING THRIE-BEAM PANELS AT EXPANSION JOINT

11'-0¼"

6½" Varies 10'-0" 6½"

1⅛" x 2½" Bolt Slots (Typ. Ea. End)

1½" x 1½" Splice Bolt Slots (Typ. Ea. End)
**Description:**

Temporary Detour Bridge Thrie-Beam Guardrail

**Design Standards:**

FY 2016-17

**Sections and Details:**

- Section A-A
- Section B-B
- Section C-C
- Section D-D
- Section E-E
- Section F-F
- Section G-G
- Section H-H
- Section I-I

**Offset Blocks:**

- As directed by the Engineer to limit vibration induced vertical displacement of the Thrie-Beam Panels, provide Contractor supplied, one time use, commercially available 3/16" (Min.) Galvanized Wire Rope w/ Ferrules or other approved wire type positioned and tensioned as required to secure the Panels.

**Stakes:**

- (See Index 1414 for details)

**Steel Post Plate Detail:**

- As directed by the Engineer

**Galv. Wire Rope:**

- As directed by the Engineer

**Bolt Slots:**

- As directed by the Engineer

**Asphalt Pavement:**

- As directed by the Engineer
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>
<th>UNIT</th>
<th>QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concrete Class N3</td>
<td>CT</td>
<td>3.4</td>
</tr>
<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.