NOTE:
1. Use weathering steel for all structural steel and fastener hardware.
2. Transition curb may be continuous or slabs at least 5 feet in length. Install faces of slabs evenly and with maximum 1⁄8" separation.

Rub Rail Connection Detail.

View transition splice rail

Plate washer

10" x 12" x 8'-0" rough sawn timber posts

See Rail Connection to Guardwall Detail.

Fill and compact behind curb. See Stone Transition Curb Detail.

Rough sawn timber posts

Rub Rail Connection Detail.
NOTE:
1. Pre-drill 1/8" holes in blocks outs and posts.

TERMINAL SECTION RAIL
6" x 6" x 9'-9"

TRANSITION RAIL
6" x 6" x 9'-9"

TRANSITION SPLICE RAIL
6" x 6" x 11'-4½"

STONE TRANSITION CURB

U.S. CUSTOMARY DETAIL
STATE PROJECT SHEET
CENTRAL FEDERAL LANDS HIGHWAY DIVISION
FEDERAL HIGHWAY ADMINISTRATION
U.S. DEPARTMENT OF TRANSPORTATION

NOTE:
1. Pre-drill 1/8" holes in blocks outs and posts.
NOTE:
1. CONCRETE: Structural concrete Class A(AE), with a specified minimum 28-day compressive strength $f'_c = 4350$ psi. Vibrate all concrete. Chamfer exposed edges 3/4" unless otherwise shown. Do not use calcium chloride additives in the concrete.

2. REINFORCING STEEL: Reinforcing steel Grade 420 (A615 Grade 42). Grade 420 deformed pilaster steel bars conforming to AASHTO M31M. The minimum concrete covering to the face of any bar is 2" unless otherwise shown. All bars are U.S. Customary size #5.

3. Construct footing against undisturbed material or backfill with well compacted granular material.

CONCRETE: Structural concrete Class A(AE), with a specified minimum 28-day compressive strength $f'_c = 4350$ psi. Vibrate all concrete. Chamfer exposed edges 3/4" unless otherwise shown. Do not use calcium chloride additives in the concrete.

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Construct footing against undisturbed material or backfill with well compacted granular material.
Steel-Backed Timber Guardrail TL-3 Connection to Stone Masonry Guardwall

General Information

**Appropriate Applications.** Steel-backed timber (SBT) guardrail is an aesthetic roadside barrier. This drawing provides a connection to stone masonry guardwalls.

<table>
<thead>
<tr>
<th>Crash Test Criteria</th>
<th>NCHRP 350</th>
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<tbody>
<tr>
<td>Test Level</td>
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<tr>
<td>FHWA Eligibility Letter</td>
<td>B-64D2</td>
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<tr>
<td>TF 13 Designator</td>
<td>Not posted</td>
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<tr>
<td>Crash Test Report</td>
<td>TTI Report No. 405181</td>
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</tbody>
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**Limitations.** This connection is for both high- and low-speed roadways. The curb is needed to prevent the wheel from snagging on the post during impact.

**Layout Guidance.**

Applicable SCRs
None

Typical Pay Item Used
- 61707-2000 Structure transition railing, SBT system [LNFT]

Updates
February 2019
- New Detail drawing