

# Chapter 9 - Bridge Railing

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# Railing Purpose

- To identify the edge of the bridge to the traffic.
- To prevent traffic or pedestrians from falling off the bridge.
- To separate vehicular and pedestrian traffic.

# Types of Rail Systems

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- **State Bridges**
  - **Primarily Concrete Barrier**
- **County/Secondary Roads**
  - **Steel Bridge Railing**

# Crash Testing Requirements

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- **Bridge rail systems are crash tested, and cannot be modified in any manner.**

# Concrete Barrier

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- **Placement**
- **Finishing and Curing**



09/28/2010





1961

11/28/2011



# Secondary Roads Railing

- **SL-1 Bridge Rail**
- **Type T101 Bridge Rail**
- **Type T115 Bridge Rail**





2002



# Fabrication, Delivery and Handling

- **Traffic rail needs to be built in shop that is AISC certified in simple steel bridge structures**
- **Traffic and pedestrian need shop plans no matter what size**

# Bridge Sidewalk Railing

- **Steel Railing, Sidewalk**
  - Chain Link Fence
  - Curved Over Top
- **Special Steel Railing**











# Erection

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- Posts shall be set normal to grade
- Welders need to be SDDOT certified (green Card)
- Welds need to be ground smooth and have finish applied according to the shop-plans.

Questions???