Accelerated Bridge Construction

Flexible Precast Solutions for Rapid Bridge Replacement

by

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Total Precast Solutions

- Double T Beams
- Trideck Beams
- Bulb Tee Beams
- Box Beams
- Slab Beams
- Precast Abutments and Bents
- Precast Wing Walls - Skewed or Straight
- Precast Loose or Cast on Back Walls
- Safe Crash Tested Bridge Rail Systems
Typical Foundations

- Grade Beam/Abutment on Soil
- Precast Abutment, Pier Cap or Bent Cap on Driven Pile.
Soil / Geocell Foundation
Soil/Geocell Foundation
Precast Abutment
Precast Abutment - Spliced
Embedded Weld plate on H Pile
Embedded Weld Plate on Pipe Pile
Typical Precast Abutment
Weld Plate Detail

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Typical Weld Plate Detail

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Precast Abutment with Weld Plate Attachment
Precast - RR Abutment
RR Abutment with Embedded Weld Plate Pile Connection
Precast Abutment and Bent with Void and Reinforcing
Precast Bent Caps & Abutments on Pipe Pile
Prestressed “Deck” Beams

- Trideck
- Double Tee
- Bulb Tee
Deck Beam on Grade Beam
Beam ends w/paving notch
Precast Wingwalls & Curb
Trideck Beam w/end Walls
Tri Deck Beam Placement
Double Tee Beams
Double Tee Beams
Precast End Panels - Wing walls
Bulb Tee with End Walls
Bulb Tee w/End Wall
Bulb Tee w End walls and Welded Splice Embed Plates
Box Beams
Precast Wingwalls
Precast Wingwall In Place
Embedded Rail Bolts & Loose Precast End Panels
Idaho - Tube Rail System
Timber Rail - Forest Service
Forest Service - Cast on Curb
Bridge Rail on Bulb Tee
Slab Beam w/SL-1 bridge rail
Other Precast Structure Replacement Options

- Arch Structures
- Three sided Box Culverts
- Box Culverts
- Round Pipe
Precast Arch Bridge on Precast Spread Footing
Precast Arch w Precast Block
Wing Walls and Precast Parapets
Precast Arch & Parapets
Three Sided Box Culvert on Precast Spread Footings
Box Culvert
Customized for your jobsite!
Reinforced Concrete Pipe
Advantages of a Complete Precast Structural System

• Long Lasting - Durable Components.
• Rapid Installation Times.
• Crash Tested Rail Systems.
• Flexible Design Parameters.
• Very Low Risk for the Designer.
• Very Low Risk for the Owner / Customer.
• Cast in a Certified Plant Environment.
Rapid Bridge Replacement
Precast Solutions

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