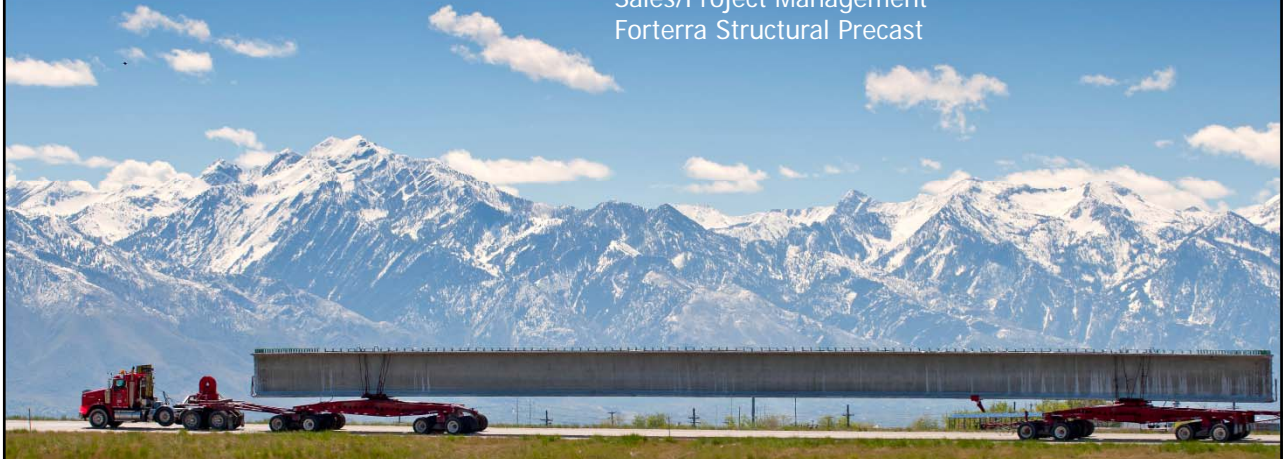




Utah DOT's Accelerated Bridge Program Fabricator's Perspective

Lee Wegner
Sales/Project Management
Forterra Structural Precast



GROUNDING IN STRENGTH

Learning Objectives

- Structural precast fabrication in Utah
- Why precast?
- Precast products for UDOT projects
- Lessons learned



Why Certified Precast?

PCI Certified Facility

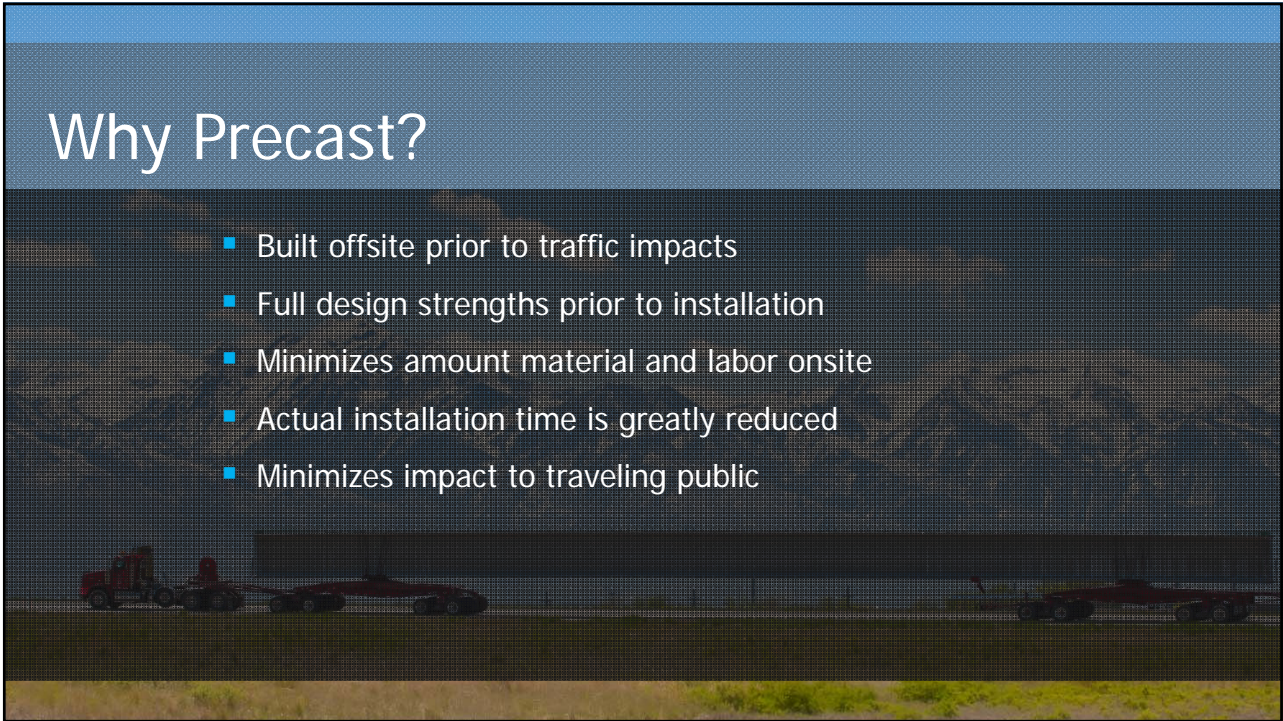
- Certification
 - ✓ Assures owners, specifiers, and designers that products and systems are nationally accepted standards
 - ✓ Ensures comprehensive internal quality processes and procedures are in place
 - ✓ Ensures compliance by auditing the facility

Why Precast?

- High performance mix designs (5,000psi – 12,000psi)
- Manufactured in a controlled environment
- Superior quality and consistent product
- Product can be installed immediately
- Time savings
- Less labor
- SAFETY

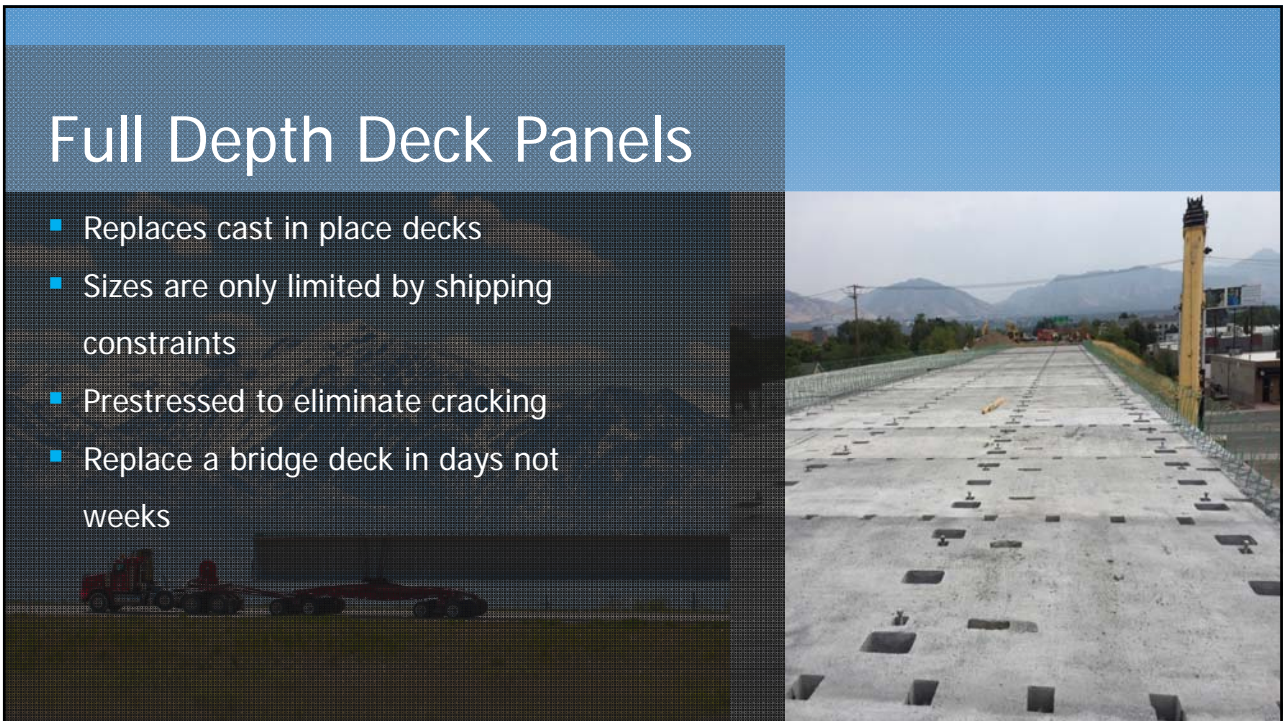
Why Precast?

- Built offsite prior to traffic impacts
- Full design strengths prior to installation
- Minimizes amount material and labor onsite
- Actual installation time is greatly reduced
- Minimizes impact to traveling public



Full Depth Deck Panels

- Replaces cast in place decks
- Sizes are only limited by shipping constraints
- Prestressed to eliminate cracking
- Replace a bridge deck in days not weeks



Controlled Repetitive Fabrication



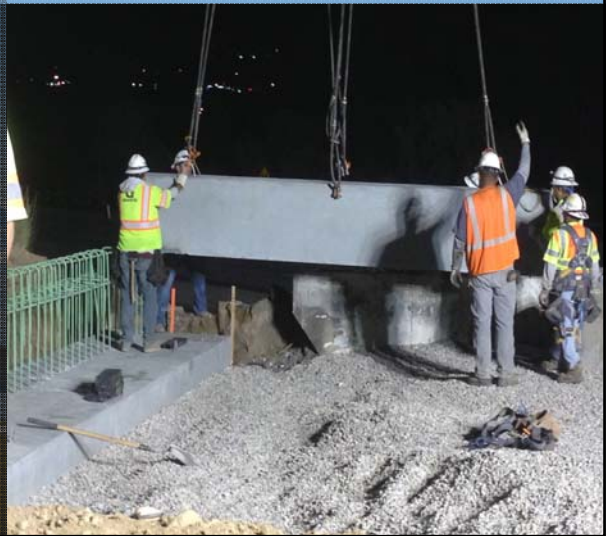
Partial Depth Deck Panels

- Eliminates forming and stripping
- Replaces bottom rebar
- Rapid installation
- Easily adapts to girder spacing



Precast Substructures

- Fabricated to exacting tolerances
- Eliminates site curing time
- Rapid installation
- Ability to emulate cast in place reinforcing
- Limited only by shipping constraints



LIMITED ONLY BY IMAGINATION

PRECAST FOOTINGS FOR AN ACCELERATED PROJECT READY TO POUR

Long Span Girders

- Faster fabrication time
- Faster installation
- Less costly
- Greatly reduces long term maintenance



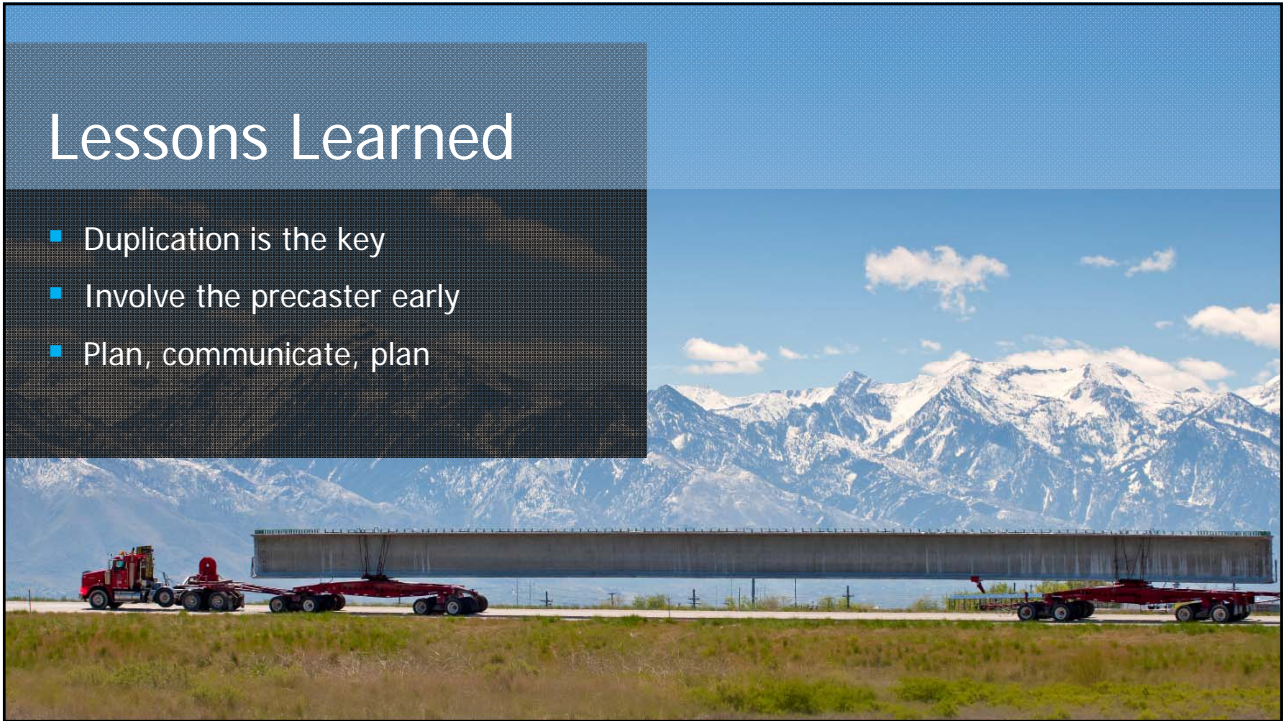
Decked Girders

- Eliminates Deck Construction
- Faster installation
- HPC eliminates weld connections



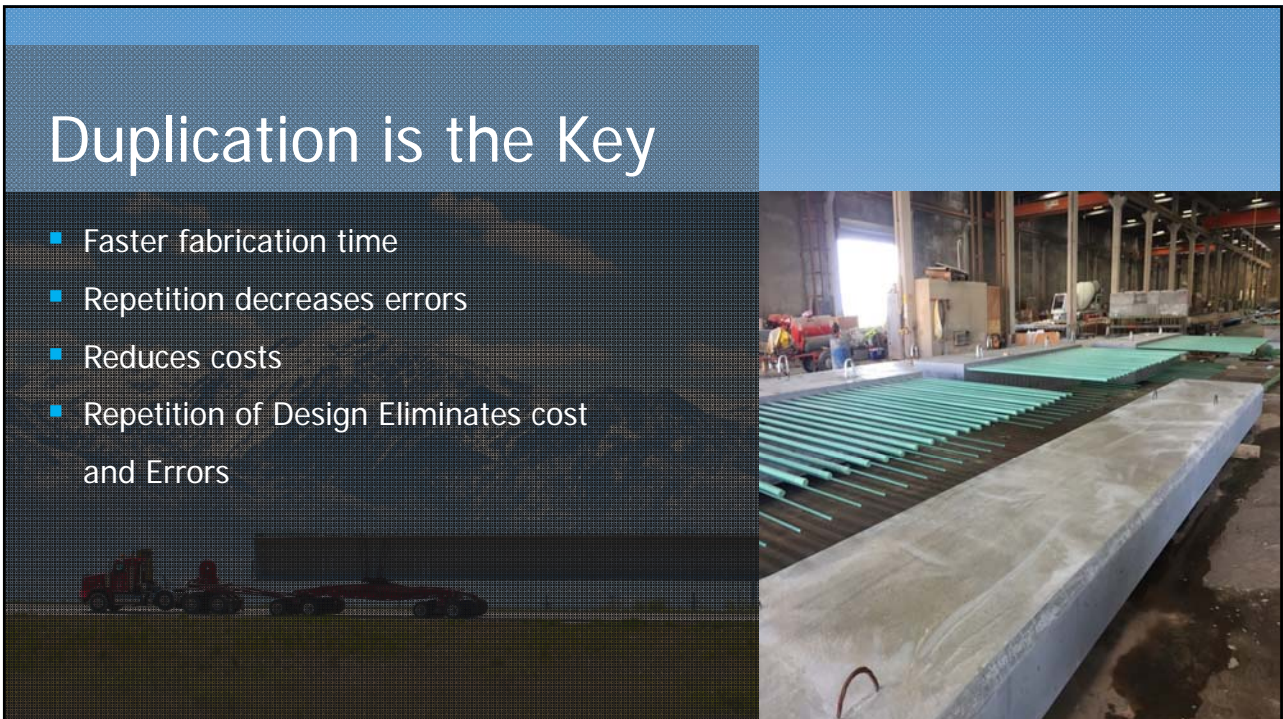
Lessons Learned

- Duplication is the key
- Involve the precaster early
- Plan, communicate, plan



Duplication is the Key

- Faster fabrication time
- Repetition decreases errors
- Reduces costs
- Repetition of Design Eliminates cost and Errors



Involve Precaster Early

- Reduces redesign
- Shipping limits and costs can be addressed
- Expedites the fabrication process
- Pre coordination eliminates costly mistakes



Plan, Communicate, Plan

- Communicate the plan with the entire team
- Address shipping upfront
- Identify potential installation pitfalls
- Have backup plans





Thank you!

Please contact me:

Lee Wegner

801-330-3960 | Lee.wegner@forterrabp.com

