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

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

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