The Good
THE BAD &
The Ugly

Theme from “The Good, The Bad and The Ugly, by Ennio Morricone, 1966
I-75 Moderization

Innovation & Partnering
Overview

$4.25 Million in Incentives

Completed 1 Year Early

Do We Have Your Attention?

Over ½ Million Manhours

And Under Budget

$76 Million Change Order

Theme from 2001: A Space Odyssey (Also sprach Zarathustra), composed by Richard Strauss, performed by Herbert von Karajan/Vienna Philharmonic, 1968
Nuts & Bolts

- Contractor: kokosing CONSTRUCTION COMPANY INC.
- Designer of Record: HNTB
- Original Contract Value: $125,564,985
- Start Date: 10/8/2012
- Original Completion Date: 9/1/2017
- Reconstruction of 0.9 miles of Interstate
- 11 Structures
- 1 Combined Interchange
- Last Phase of the I-75 Corridor Modernization
The Big Picture

Phase 1A

Phase 1B

Phase 2
Key Improvements . . .

- Remove Left Hand Ramps
- Increase Ramp Spacing
- Create lane continuity through town
Areas of Work

1st/2nd St. Interchange

1227
1248
1250
1267W
1262
1267
1282

3rd Street
Lump Sum Minus Incentive:

- $200,000 First Traffic Switch (All on NB)
- $400,000 Second Traffic Switch (All on SB)
- $400,000 Third Traffic Switch (Ramps Open)
- $250,000 Project Completion

No Excuse Incentive (NEI):

- $3,000,000 Project Completion 1 year early
Tipping the Scales . . .
Innovative Contracting

Value Engineering Change Proposals (VECP):

- Two VECP’s
- Redesigning 9 Structures
- Affected over $76 million in work
- Generated $2.6 million in shared savings
- Required modification to 404 USACE Permit
Innovative Contracting

Value Engineering Change Proposals (VECP):

• MOT-75-1248/1250/1267 went from steel to concrete beams
• MOT-75-1227 structure went from 8 spans to 6 spans
• MOT-75-1282 structure went from 13 spans to 10 spans
• USACE 404 Permit Modification
  • Adrienne Earley

• Re-establishment of OHWM
  • Adrienne Earley
  • Katie Dunlap

• Instream Work Restrictions
  • Megan Michael
Blackout Time

• Contractor was ready to begin new structures in April of 2013

• VECP #1 was not approved until August 13, 2013

• In order to have any potential of achieving the NEI, the Contractor had to proceed at his own risk.

• Contractor “bankrolled” this non-contract work until the VECP was accepted.
Partnering Culture
Partnering Culture

Picking Your Team . . .

- Availability
- Expertise
- Experience
- Personality
- Temperament
- Previous Relationships
Partnering Culture

Singular Focus:

- All parties truly want the same thing
- The motivation can be different
Partnering Culture

Trust

Respect
Partnering Culture

Common Good
When it Rains . . .

MOT-75-1227R:
Verification

Cores for Strength

Echo Impact for Delaminations
Mass Concrete Cap
Mass Concrete Cap
Thermocouples
Wrapped in Concrete Blankets
Fabrication Challenges
Do the Right Thing . . .
Design Challenges

Robert Road & MSE Wall #4 Plan Error:

Robert Road under 1267W
Design Challenges

Robert Road & MSE Wall #4 Plan Error:

Concrete Barrier

Robert Road under 1267W
• Hydro excavation performed at MSE #4 to adjust in-place panels.

• Top panel has been removed.
How did we get there?
Creative Concrete Placements

- Multiple Spans at a Time
- Removed Longitudinal Joint
- Created +1500 CY continuous pours
Plant Tracking Map

BRIDGE 1227
SPANS 4-6

[Diagram showing a bridge with labeled parts and measurements]
MOT-75-1282R (North River Bridge):
Focus on Safety

• 1 lost time accident
• 540,350 manhours
Questions . . .