



## Agenda

- 01 **Project Overview**
- 02 **Traffic Management**
- 03 **Construction Lessons Learned**
- 04 **Overall Schedule (INFRA)**

## PROJECT OVERVIEW

**Old I-80/I-380 System Interchange:**

- Cloverleaf design
- Outdated
- Not able to safely handle projected traffic growth

## PROJECT OVERVIEW

**Future Interchange:**

- Replace four loops with directional ramps
- I-80 widened to 6-lanes west of I-380
- I-80 widened to 8-lanes east of I-380
- I-380 / U.S. 218 widened to 6-lanes
- 12-foot shoulders
- Project Cost \$389 Million

## Design Team

- › Roadway: Iowa DOT
- › Geotech: Braun Intertec
- › Signing: Iowa DOT
- › Bridges (21): Various Consultants and Iowa DOT
- › Lighting & ITS: HDR
- › Trail: Snyder
- › Design Coordination: Iowa DOT PMB & HDR

Design Completed Summer 2020

## Construction Team

## TRAFFIC MANAGEMENT

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HQ/1-380 SYSTEMS INTERCHANGE

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## ESTABLISH FRAMEWORK

### TRAFFIC MITIGATION PROCEDURES

Planned Traffic Impact Mitigation Process for the I-80/I-380 Systems Interchange Project

| Procedure Number | Traffic Mitigation Procedures |     |     |     |     |     |     |     |     |      |      |      |      |      |      |
|------------------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|
|                  | 1.1                           | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 | 1.7 | 1.8 | 1.9 | 1.10 | 1.11 | 1.12 | 1.13 | 1.14 | 1.15 |
| Green            | 0                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    |
| Yellow           | 0                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    |
| Red              | 0                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    |
| Black            | 0                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    |

**IMPACT METER**

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## RESPONSIBLE PARTIES

- › General Contractor
- › Traffic Management Center (TMC)
- › Highway Helper Service
- › DOT Maintenance
- › Motor Vehicle Enforcement (ISP)
- › Resident Construction Engineer
- › Inspectors
- › Strategic Communications
- › Mapping Apps
- › City Signals Staff (3)
- › Tech Vendors (4)
- › Consultants (3+)

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## BY THE NUMBERS

- 15** Traffic Mitigation Procedures
- 20** Responsible Parties
- 85** Action Steps
- 5** Traffic Impacts Each Week (Average)

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## SHOULDER STRENGTHENING?

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### OVERSIZE LOAD SURPRISES

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### PROTESTERS & I-80 CONFLICTS

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### SPECIAL EVENT TRAFFIC MANAGEMENT

### Pre-Game Alternate Routes

LOOP CLOSED: I-80 Westbound to U.S. 218 Southbound

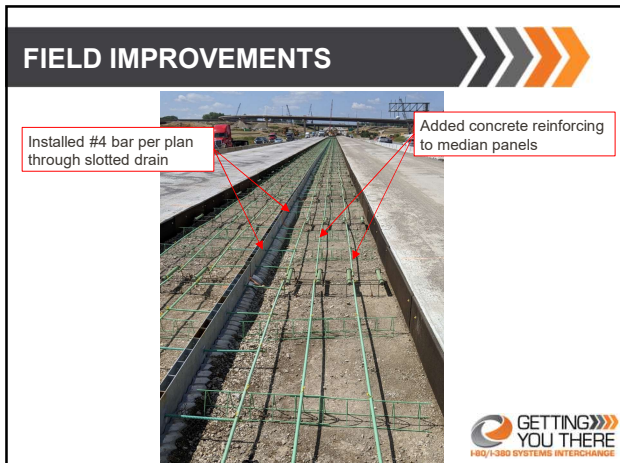
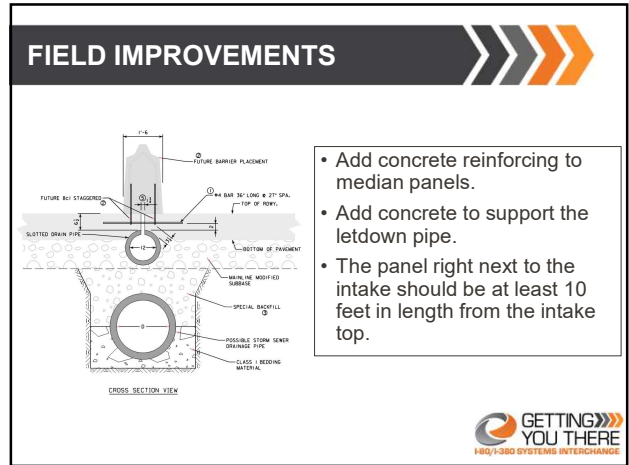
Special Event Traffic Management

LEGEND  
 Alternate Route A  
 Alternate Route B  
 Exit Number  
 Traffic Signal  
 Closed

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### SLOTTED DRAIN ISSUES

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### ITEMS FOR REPAIRS

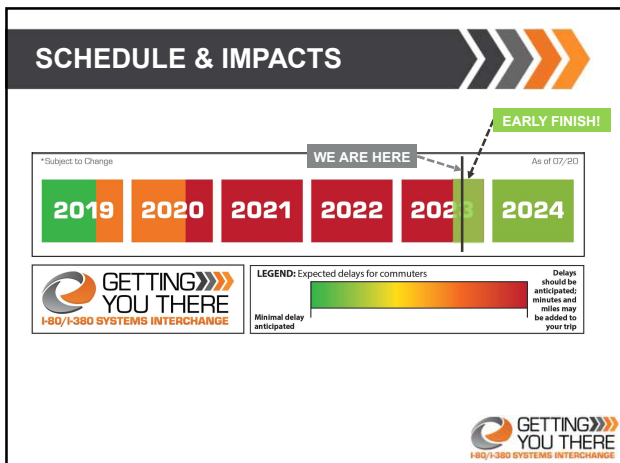
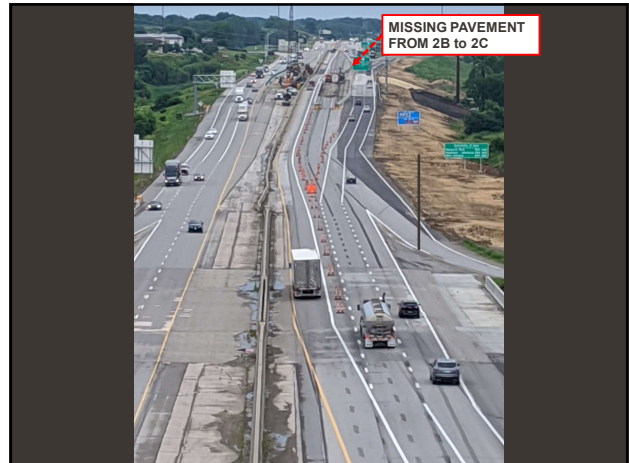
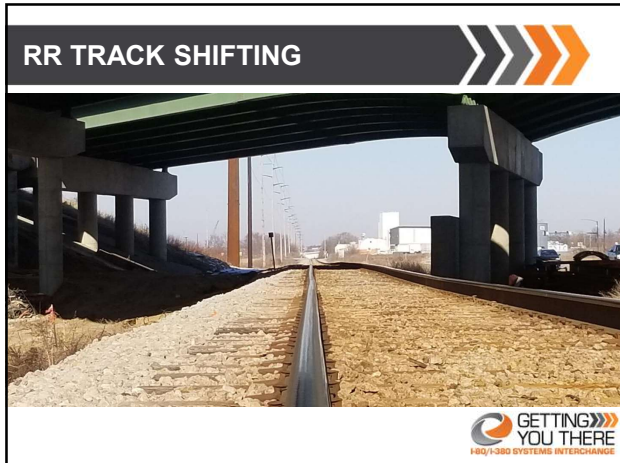
### SOILS ISSUES

### AVOID FRANKEN-SIGNS

### H2O PROBLEMS

### STAGES BRIDGES - PILING

### APPROACH SETTling & STAGING



| SCHEDULE RESULTS |                                     |              |                |            |                  |
|------------------|-------------------------------------|--------------|----------------|------------|------------------|
| Site             | Description                         | Bonus Amount | Max Bonus Date | LD Date    | LD Amount (CDAY) |
| 00               | Overall                             | -            | -              | 7/15/2024  | \$4,000          |
| 01               | WB to NB (Ramp A)                   | \$1,305,000  | 8/19/2023      | 11/17/2023 | \$14,500         |
| 02               | SB to EB (Ramp F)                   | \$1,305,000  | 8/19/2023      | 11/17/2023 | \$14,500         |
| 03               | WB Thru (I-80)                      | \$900,000    | 8/19/2023      | 11/17/2023 | \$10,000         |
| 04               | EB Thru (I-80)                      | \$900,000    | 8/19/2023      | 11/17/2023 | \$10,000         |
| 05               | Ramp E                              | -            | -              | 11/17/2023 | \$6,000          |
| 06               | Ramp G                              | -            | -              | 11/17/2023 | \$6,000          |
| 07               | Interchange Lanes/Ramps             |              |                | 11/17/2023 | \$10,000         |
| 08               | I/D Ramp H Critical Closure         | \$73,500     | 8 days         |            | \$10,500         |
| 09               | I/D Ireland Ramp D Critical Closure | \$430,000    | 70 days        |            | \$10,000         |
| 10               | I/D IA-965 Ramp C Critical Closure  | \$312,000    | 16 days        |            | \$19,500         |
| 11               | I/D System Ramp D Critical Closure  | \$150,000    | 40 days        |            | \$7,500          |
| 12               | I-80 Median Barrier                 |              |                | 7/15/2024  | \$4,000          |
| 13               | I-380/US-218 Median Barrier         |              |                | 7/15/2024  | \$4,000          |
|                  |                                     | \$5,375,500  |                |            |                  |

### Contact / Questions

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