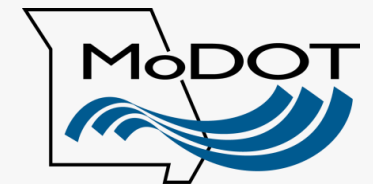


# **J6I3490/J6I3613/ J6P3548/J6S3488 I-70 Bridge Rehabilitation**

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**PRE-BID CONFERENCE  
JANUARY 5, 2023**



# Introductions

- **MoDOT**
  - Chris Kelly – Project Manager
  - Michele Atkinson – Structural Liaison Engineer
  - John Lewis – Resident Engineer
- **EFK Moen (J6I3490)**
  - Chris Linneman – Bridge Project Manager
  - Margaret Bruns – Roadway Project Manager
- **Quigg (J6P3548/J6S3488)**
  - C.J. Stokes – Bridge Design Engineer
  - Todd Welz – Roadway Project Manager

# Safety Minute

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## Fire:

- Leave via nearest stairwells

## Severe Weather:

- Shelter in 1<sup>st</sup> floor hallway

## Health Emergency:

- AED in 1<sup>st</sup> floor at foot of main stairwell
- Volunteer to call 911

# Scope of Work

- **Rehabilitation of 12 bridges on I-70 & Route 79 between Route K and Spencer Creek**
  - 7 bridges on J6I3490 – Alternate Overlay:
    - Hydrodemolition & Latex Concrete overlay or
    - Polyester Polymer Concrete overlay
  - 1 bridge – Deck Replacement (L0711 – I-70 over Belleau Creek).
  - 4 bridges on J6P3548 & J6S3488:
    - Hydrodemolition & Latex Concrete overlay
    - Joint & Approach Slab Replacements.
    - Structural Steel Blasting & Repainting.
- **Microsurface of I-70 from Route K to east of Mid Rivers Mall Drive**
  - After completion of Bridge Rehabilitation.

# Scope of Work – Cont'd

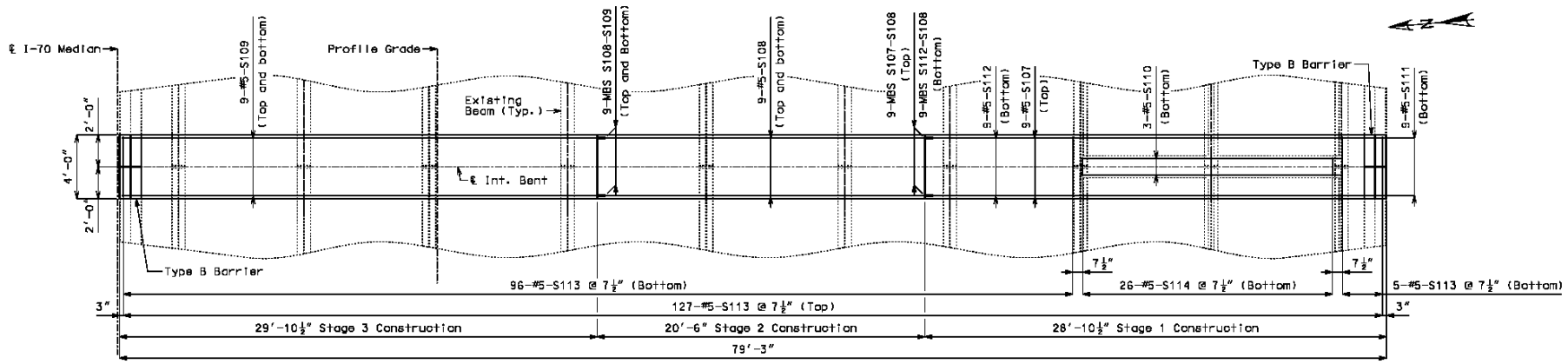
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- Project Schedule:
  - Notice To Proceed – March 13, 2023
  - Completion Date – December 1, 2024
- I-70 Maintenance of Traffic
  - 118,000 total AADT.
  - At least 3 lanes each direction, except night/weekend.
- Bryan Road MOT
  - 27,650 total AADT.
  - Full Closure, limited to June 5 – August 15.
- Route 79 MOT
  - 12,950 total AADT.
  - 2 stages, Full Northbound closure at I-70 for 1 stage.

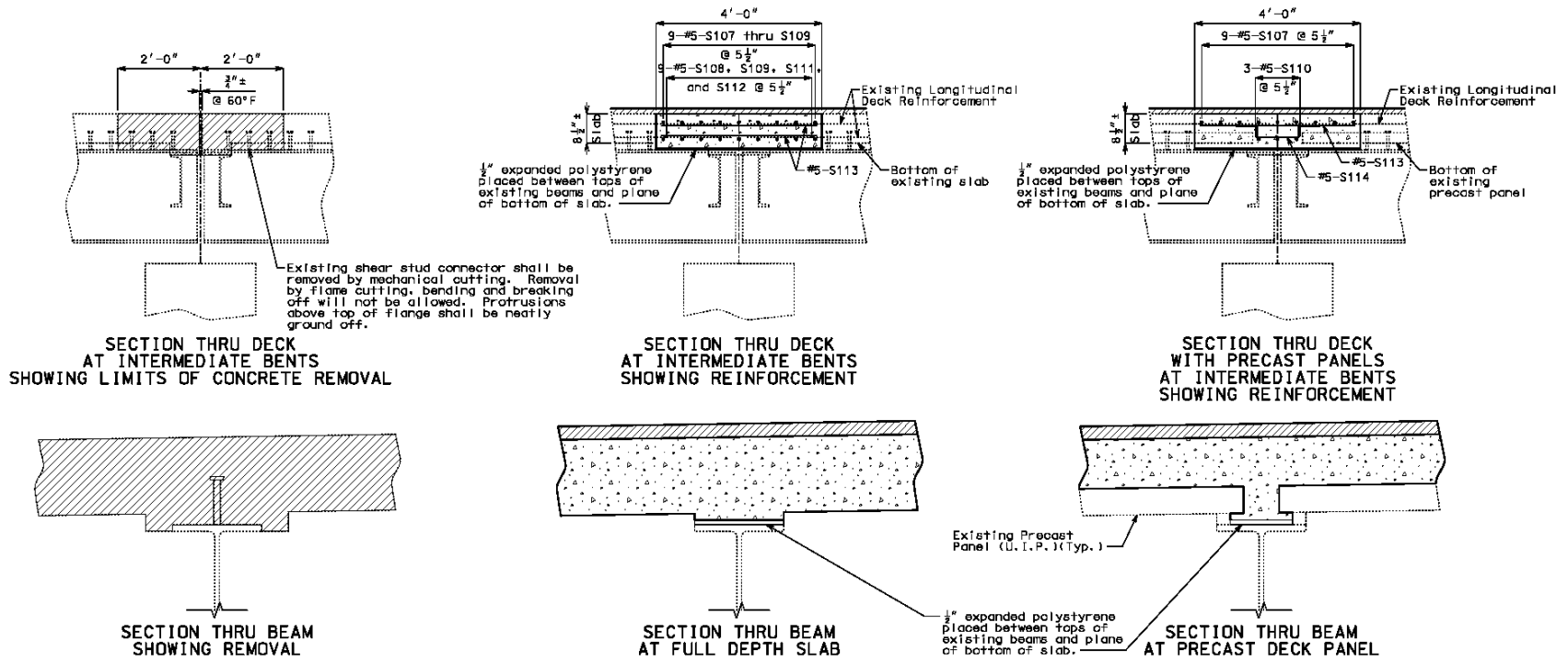
# Scope of Work – Cont'd

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- Bridges L0711, G0337 & A0856 – Link Slabs (J6I3490)
  - I-70 Bridges over Belleau & Spencer Creeks.
  - Eliminates deck joints over intermediate bents.
  - Bridge JSP O – Concrete for Link Slab – steel fiber reinforced.
  - Bridge JSP Q – Special Consideration of Change Orders and Value Engineering (5% additional Federal Share).
  - Replace select bearings at intermediate bents.



PLAN OF TYPICAL LINK SLAB SHOWING REINFORCEMENT



DETAILS OF LINK SLAB AT INTERMEDIATE BENTS NO. 2 & 3

Notes:  
 Payment for all removal of shear stud connectors and grinding any protrusions will be considered completely covered by the contract unit price for Steel Fiber Reinforced Concrete.  
 Payment for all concrete and expanded polystyrene for link slabs will be considered completely covered by the contract unit price for Steel Fiber Reinforced Concrete.

FOR INFORMATION ONLY NOT FOR CONSTRUCTION

DATE PREPARED: 10/21/2022

ROUTE: I-70 STATE: MD DISTRICT: BR SHEET NO.: 12

COUNTY: ST. CHARLES JOB NO.: J613490 CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.: G03374

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

**MoDOT**

105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-HUDDOT (1-888-275-6636)

**EFK Moen**  
 Civil Engineering Design  
 13923 Barrett Parkway Dr, Suite 250  
 St. Louis, MO 63021  
 Missouri Certificate of Authority: 081578

Detailed JUN 2022  
 Checked JUN 2022

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 12 of 18

# Access

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- Existing Right of Way
- Bridges A0856, G0337, A5256, A5257 – I-70, North Outer Road, South Outer Road over Spencer Creek
  - Access limited primarily to north side at North Outer Road.
  - Maintain access for Spencer Creek Levee.



# Spencer Creek Creek Access



# Norfolk Southern Railroad (J6P3548)

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- JSP W
- Railroad Plan Submittal/Approval (Pay Item).
- Construction clearances: 22'-0" vertical, 13'-0" horizontal.
- NSRR Right of Entry/Insurance approval.
- Protective Services (Flagging) – as required by NSRR.

# Environmental

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- **Lead Based Paint**
  - 5 bridges: L0710, L0711, L0481, G0336, A4294
- **Migratory Bird Restrictions (J6I3490)**
  - No work within 10 feet of active nest.
  - Nesting evidence on A5256 (South Outer Road 70 over Spencer Creek).
  - Nests on adjacent structures to L0711 (I-70 over Belleau Creek).
- **Clean Water Act, ACoE 401/404 Permit – Dardenne Creek**
  - NWP 3 Requirements.
- **Levee Access – Spencer Creek (North Outer Road 70)**



# A5256

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Bird Nests – 11/30/22

A5256: EB70 OR over Spencer Creek  
Bird nests on south overhang



# Maintenance of Traffic

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- **I-70 Staged Construction**
  - Specific liquidated damages \$3500/day per bridge if not complete by specified number of calendar days.
  - Staged construction allowed March 15 – December 1.
- **Route 79 Staged Construction**
  - 2 stages, Full Northbound closure at I-70 for 1 stage.
  - 120 Calendar Days to complete.
  - Liquidated Damages: \$12,900/day.
- **Bryan Road**
  - Full Closure, limited to June 5 – August 15.
  - Liquidated Damages: \$19,000/day.

# Maintenance of Traffic, Continued

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- Bryan Road and Route 79 over I-70 (A5054 & A4294) Painting
  - 16'-0" Min. Vertical Clearance over I-70 required.
  - Continuous Single Lane Closure on I-70 allowed from 9PM Friday to 5AM Monday.
  - Double and Triple lane closures 11PM to 5AM weeknights, to 6AM weekends. (Triple only on 4+ lanes)
  - Route 79 Southbound to I-70 Eastbound loop ramp closure, same as above.

# Maintenance of Traffic, Continued

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- Order of Work JSP
  - Conflicts/overlapping Temporary Traffic Control on certain stages between the projects.
  - Contractor shall schedule work to avoid conflicts.
  - Microsurfacing to be done after staged I-70 bridge construction is complete.

# Maintenance of Traffic, Continued

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- Traffic Signal Maintenance & Programming
  - PE & PTOE Required
    - Route 79 and I-70 Westbound Ramps.
    - Bryan Road and I-70 Westbound Ramps.
    - Bryan Road and I-70 Eastbound Ramps.
    - Lake St. Louis Boulevard and I-70 Westbound Ramps.
    - Route K and I-70 North Outer Road Ramp.
    - Route K and I-70 South Outer Road Ramp.
  
- SL District Traffic Signal Detection System
  - Route 79 and I-70 Westbound Ramps.
  - Bryan Road and I-70 Westbound Ramps.
  - Bryan Road and I-70 Eastbound Ramps.



# Public Outreach

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- Project Webpage – Update when contractor schedule available.
- Public Meeting to be held prior to closure of Bryan Road, Route 79 Northbound bridges.
- Elected Officials
- First Responders

# Utilities/DBE

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## ■ Utilities

- MoDOT ITS – On/near bridges and guardrail.
  - Relocation quantities included in projects.
- City of St. Peters Water & Sewer
  - Running parallel to Dardenne Creek under I-70 bridges.
  - Not in conflict, but pothole to verify 42” minimum cover.
- Lumen
  - Parallel to I-70, potential conflict at Dardenne Creek. To be lowered by Notice To Proceed.

## ■ DBE/Trainees

- Contract DBE Goal: 12%
- 3 Trainees @ 1000 hours each.



Questions?

# Missouri Department of Transportation

Christopher Kelly, P.E. – Project Contact

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(314) 453-5034