

# MoDOT Design-Build Program

*2024 Update*

**David J. Simmons P.E.**

MoDOT

Design-Build

Coordinator







# MoDOT's Design-Build Program – By the Numbers

- Design-Build Legislation
  - First Authorization in 2004
    - Three Pilot Projects:   
  - Legislation expanded in 2012
    - 2% of Total number of Projects
- 27 Awarded Contracts
  - Lowest \$14.4M (I-70 Climbing Lanes 2020)
  - Largest \$487M (Safe and Sound Bridge Program 2010)
- MoDOT Design-Build target is 10% of overall program
  - 1-3 projects per year



# Targeting Right Projects

## Corridor Projects



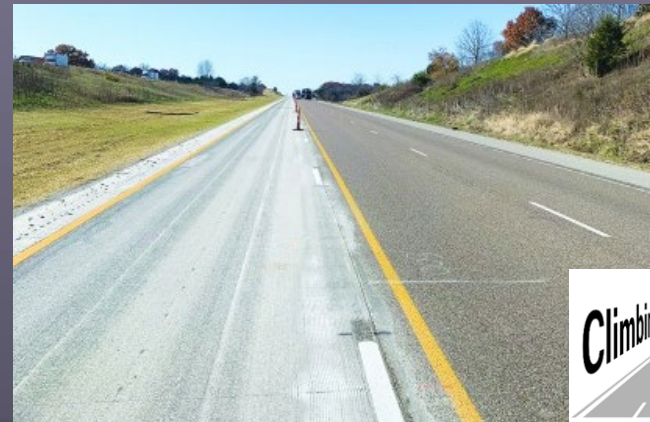
## Major Bridges



## Bridge Bundling



## Small Projects



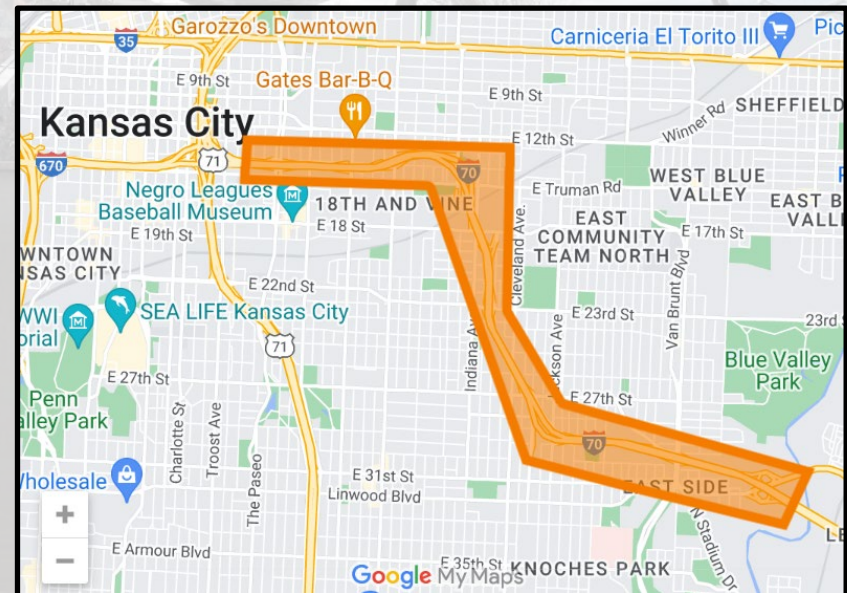


# MoDOT's Design-Build Program – Projects Underway

- 9 - \$1.49 Billion in Contracts:



- 1 - Projects currently in procurement
  - I-70 Kansas City Paseo to US (KC)
    - \$223M Program Budget

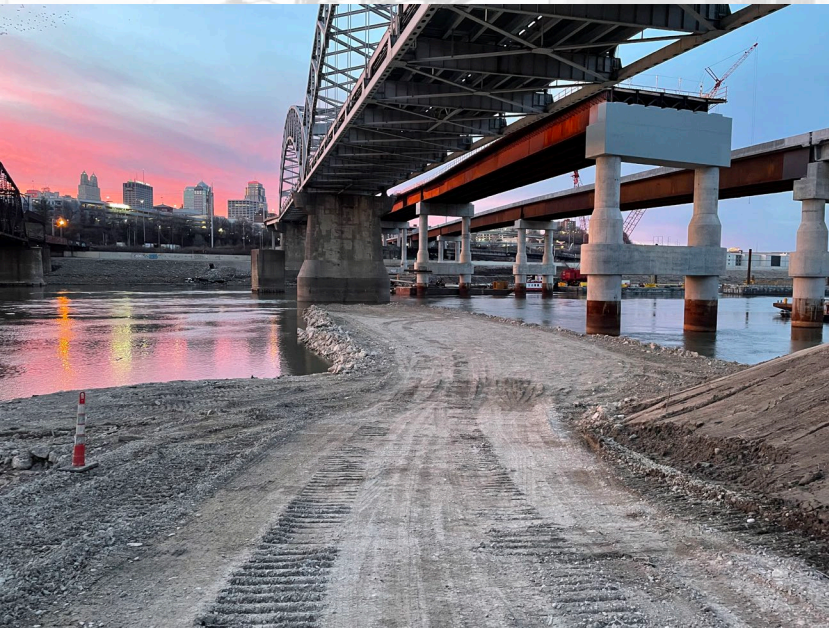




# MoDOT's Design-Build Program Projects Underway

## Buck O'Neil Bridge (KC)

- Massman, Clarkson, HNTB
- New US 169 Bridges over Missouri River, Connections
- Project opens End of 2024





# MoDOT's Design-Build Program Projects Underway

## I-70 Rocheport Bridge (Central)

- Lunda, Parsons
- New I-70 Bridges over Missouri River (6 Lanes)
- Opens end of 2024





# MoDOT's Design-Build Program Projects Underway

## I-44 Corridor Bridge Bundle (SW)

- ESS, Parsons
- 25 Bridges in Package
- Project opens End of 2024





# MoDOT's Design-Build Program Projects Underway

## I-70 Cave Springs to Fairgrounds (STL)

- Millstone Weber, Parsons
- 4 Interchange Improvements on I-70 In SCC
- Project complete late 2024





# MoDOT's Design-Build Program Projects Underway

## Chester Bridge (SE)

- Ames, Parsons
- New bridge over Mississippi River (Illinois-Missouri)
- Project complete late 2026





# MoDOT's Design-Build Program Projects Underway

## I-55 Corridor (STL)

- KCI, Bartlett & West
- Six Lane I-55 from 67 to Hwy Z
- Interchange Improvements
- Project complete late 2026

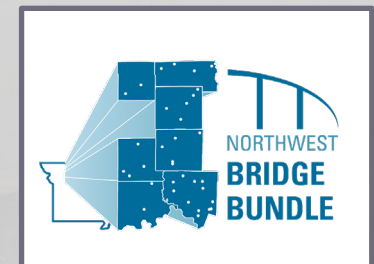




# MoDOT's Design-Build Program Projects Underway

## NW Bridge Bundle (NW)

- Capitol, Horner & Shifrin
- 31 Bridge Package
- Project complete late 2026

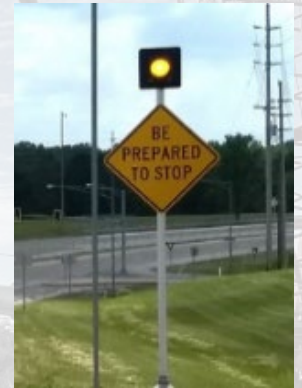
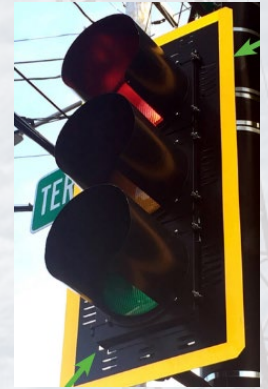




# MoDOT's Design-Build Program Projects Underway

## Safety Improvements 2.0 (STL)

- West Contracting, Horner Shifrin, Lochmueller
- Safety Improvements at 195 locations in STL
- Project complete mid 2026



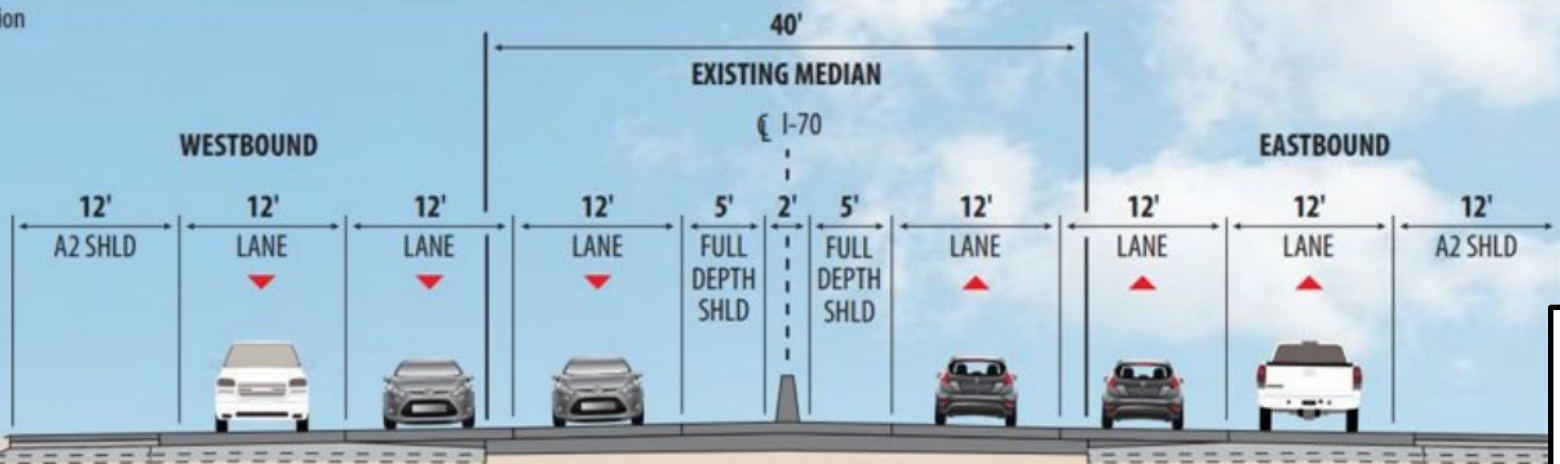


# MoDOT's Design-Build Program Projects Underway

## Improve I-70 Columbia to Kingdom City

- Millstone Weber, Jacobs
- Six Lane I-70 Columbia to Kingdom City
- New Interchange at US 63 and US 54
- Project complete late 2027

Typical I-70 Section





# MoDOT's Design-Build Program

- Upcoming Design-Build Projects

([www.modot.org/designbuild](http://www.modot.org/designbuild))

- Improve I-70 Project #2 (O'Fallon to Warrenton)
  - Over \$500M Program Budget
  - Summer/Fall 2024 Procurement
- Southwest District Bridge Bundle 3.0 (Truman Lake Area)
  - \$35.2M Program Budget, FY 2025 (Late 2024 or Early 2025)
  - Bridges concentrated near the Truman Lake Area
- Improve I-70 Project #3 (Blue Springs to Odessa)
  - Over \$500M Program Budget
  - Procurement TBD





# MoDOT's Design-Build Program 2 Year Look Ahead - +\$1.2B

- Potential DB Projects \*Not Approved by Commission\*
  - *I-70 Missouri River to Airport (STL District)*
    - *Tentative Fall 2025 Procurement*
    - *Tentative +\$176M Program*
  - *MO 291 Bridge over Missouri River (KC District)*
    - *Tentative Fall 2025 Procurement*
    - *Tentative \$87.5M Program*
  - *SL Bridge Bundle (SL District)*
    - *\$75.5M Program*
    - *FY 27*
  - *Missouri 47 Corridor (SL District)*
    - *\$98.3M*
    - *FY 27*





# Alternative Project Delivery Committee

- Build on Existing Partnerships
- Further mature a quality program
- Provide better communication between Industry and MoDOT





# AGC of Missouri (AGCMO)

The AGCMO Team consists of:



**Alan Reinkemeyer**  
AGCMO



**Brett Lennon**  
Millstone Weber Construction



**Chad Luedke**  
Clarkson Construction Co.



**Ryan Casey**  
Pace Construction Company



**Chip Jones**  
Emery Sapp & Sons, Inc.





# ACEC of Missouri (ACEC/MO)

The ACEC/MO Team consists of:



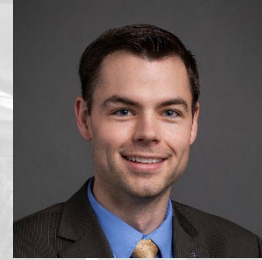
**Morgan Mundell**  
ACEC/MO CEO



**Tawn Nugent**  
Trek Design Group



**JC Murray**  
AECOM Inc.



**Ben Asnicar**  
Burns & McDonnell



**Tim Broyles**  
Parsons Transportation Group





# MoDOT Members



**Dave Simmons**  
Design-Build Coordinator



**Kenny Voss**  
State Design Engineer



**Eric Kopinski (SL)**  
Improve I-70  
Program Director



**Stacey Smith (SL)**  
SL Alternative Project Delivery  
Safety Imp. Project Director



**Karlee Covington (KC)**  
Project Director – I-70 West



**James Pflum (KC)**  
Buck O'Neil Bridge  
Project Director





# 2023 Committee Work

## Discussion of DB Items Topics:

- Key Personnel Discussion
  - Perfect Storm – more projects, turnover, retirements
  - Continued evolution in requirements and qualification weighting to provide relief
- DBE in Design-Build
  - FHWA Everyday Counts Initiative – Open DBE Plans in DB
    - MoDOT leading in this area in openness and performance
    - Opportunities to expand
- Emerging other procurement methods





# 2023 Committee Work

## Discussion of DB Items Topics:

- Responses to RFQ's
  - Industry diversification
  - Averaging 2 teams per procurement in 2023
- Workload and Industry capacity
  - Programs have grown, industry more selective
  - Procurement Timing
  - Ideas for easing pursuit
    - Communication – Schedules
    - Reduce Requirements not needed for evaluation
    - Stipends
    - Seek innovation in targeted areas





# 2023 Accomplishments

- New Contractors and Companies participating
- Largest Design-Build Program in MoDOT History
- Largest monthly DB payments to Contractors.
- Completion of transformational projects:
  - I-270/FARM/Bootheel Bridge Bundle (5 bundles, 622 Bridges)
- Historic Investments = Breaking ground on Projects that will improve ***safety, economic development & quality of life***
- Missouri – Recognized for National Best Practices





# MoDOT Results – By the Numbers

## Design-Build

\$3.5 Billion in 27 awarded contracts

\$430 million saved

173 months ahead of schedule

Over 800 Innovations



## Program Numbers

**\$1.49 B** currently under contract

**\$1.3 B** Design-Build - Next 2 FY



# Discussion, Questions and Suggestions



**Thank you!**  
**Continued Amazing Partnerships!**

**Contact:**  
**[David.J.Simmons@modot.mo.gov](mailto:David.J.Simmons@modot.mo.gov)**

**314-220-6572**

