Appendix D:
Maps, Photos and Visuals
FIX I-44: FREIGHT, INNOVATION AND SAFETY FOR THE OZARKS

Maps, Photos & Visuals
Major Truck Routes on the National Highway System

Proposed FIX
I-44 Project
Location

Project Location Near Intermodal Facilities

I-44 Corridor

- Kansas City
- St. Louis
- Jefferson City
- Springfield
- Joplin

Proposed FIX I-44 Project Location

Symbols:
- Commercial Airport
- Port
- Intermodal Facility
- Corridor
- Interstate
- River
- Urban Area

Class 1 Rail Density:
- < 5 MGT
- 5-10 MGT
- 10-50 MGT
- 50-100 MGT
- > 100 MGT

Sources: Army Corps of Engineers Spatial Data, FAAACAIS CY2011, 2010 Rail Density-NTAD 2013
Project Location Near Ft. Leonard Wood & Branson
Scope of Work Major Elements

- Construct additional lane in each direction from US-160 and US-65 (~7 miles); segment is currently two lanes in e/ direction
- Replace six two-lane bridges in e/ direction over Broadway Ave., Grant Ave., and National Ave.
- Install box culvert under I-44 between Grant and National Avenues to support multi-use trail (active transportation)
- Transportation Systems Management and Operations Strategies (TSMO) including ITS, Predictive Analytics, CCTV, etc.
The proposed project is 14 miles long. Ten miles, or 74% of the project area lies within or borders an Opportunity Zone.
Springfield I-44 Segment 12-Hour Truck Trip Flows

12-Hour Trip Flows

Truck trip flows are segmented in 12 hour, 24 hour, and 48 hours after the truck has traversed the I-44 project limits. Source: ATRI
Within 24 hours, truck traffic is radiating in all directions.  Source: ATRI
Within 48 hours, truck traffic from the I-44 project limits is spread all the way to the west and east coasts, and south to Mexico. Source: ATRI
The graphic shows density of trucks as they pick up and deliver freight, and provides relative truck freight activity. The I-44 corridor in Springfield is closely aligned with the heaviest density and highest activity of trucks in the Springfield area. Source: ATRI
Transearch Volume of Goods Shipped

Relative Activity of Major Corridors in Missouri (2011, Thousands of Tons)

Legend
2011 Transearch Network ('000s of Tons)
- 0 - 4,500
- 4,500 - 15,200
- 15,200 - 30,800
- 30,800 - 42,500
- 42,500 - 67,100

Proposed FIX I-44 Project Location

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I-44 – One additional lane will be added for seven miles in each direction
Springfield, MO is a major freight movement city. It is the “stainless steel capital of the world” and home to several other major manufacturing facilities that rely on the over-the-road network to move their goods nationwide.
Representative example of I-44 through Springfield, MO, showing heavy truck traffic. There is sufficient grassy median space to accommodate an additional lane in each direction.
Photographs

Truck traffic on I-44 through Springfield, MO, showing stretches with no center median barrier, and the grassy median where the additional lanes will be constructed. Even minor accidents can shut down both lanes of the roadway creating significant delays.
Photographs

Additional views of congestion on I-44 in the project limits. Traffic is comprised largely of freight-hauling trucks; tourists in cars, pickup trucks, and recreational vehicles heading to Branson and other recreational destinations in the Ozarks; and farm-to-market traffic.
Photographs

Additional views of I-44 illustrating the different roadway users and rock outcroppings along the corridor which limit accessibility when the roadway is closed following traffic incidents.
This is one of three two-lane bridges that will be reconstructed. The surface street is Grant Ave.
Photographs

I-44 Bridge (notice the twin bridge design) – two lanes in each direction – over Grant Avenue. Close-up view. Left Photo: Underbelly view. Right Photo: Aerial View of same twin bridge design. The FIX I-44 project proposes to reconstruct three, two-lane twin design bridges on I-44.
Springfield Underground is one of two underground facilities in Springfield, MO serving the supply chain network. This facility has 24 dock doors, 3 miles of lit roadway, 3 miles of rail siding, clear ceiling height up to 30’, immediate access to I-44 and US-65 and served by rail.
Springfield, MO's second underground facility. The trade, transportation, and utilities sector is the largest nonfarm employment industry in the Springfield area, employing more than 50,000 individuals.

<table>
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<th>Springfield area employment (number in thousands)</th>
<th>Nov. 2019</th>
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<tr>
<td>Total nonfarm</td>
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<td>Mining, logging, and construction</td>
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<td>Manufacturing</td>
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<td>Trade, transportation, and utilities</td>
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<td>Government</td>
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Source: U.S. BLS, Current Employment Statistics
Photographs

Crews reconstructing a bridge over I-44. Crews work at night to reduce impact to I-44 traffic. MoDOT is investing over $81 million to replace or rehabilitate over 50 rural bridges directly impacting I-44 in Southwest Missouri.