Route 141 and I-44 Design-Build Project
Community Involvement Group

March 21, 2016
Purpose of CIG

1. Share information with major stakeholders
2. Keep stakeholders informed of the process
3. Reduce uncertainty through the project
4. Stakeholders share info with their organizations
Maximize mobility and roadway improvements on Route 141 corridor
Mitigate congestion and reduce delay at Vance Rd intersection
Upgrade Route 141 and I-44 interchange
Provide a design that reduces crashes
Improve drainage
Vance Rd Intersection

- Route 141 carries six lanes
- Locally-owned side streets have limited R/W
- Intersection limits include a church, schools, and businesses
- Union Pacific Railroad bridge over Route 141 restricts traffic
Project Area

Route 141 at Vance
Looking North – PM Peak

Forest Ave at Route 141
Looking West – PM Peak
I-44 Interchange

- Route 141 carries six lanes over BNSF Railroad
- Commuter Lot is serviced by two MetroBus routes
- Overhead Ameren Transmission Line crosses Route 141
- 100,000 vehicles use I-44 per day while 60,000 vehicles use Route 141
Project Area

Route 141
Looking South
AM Peak

Eastbound I-44 Offramp
Looking Northwest – AM Peak
## Crash History in Project Limits

2010 to 2014

<table>
<thead>
<tr>
<th>Roadway</th>
<th>Total Crashes</th>
<th>Rear End Crashes*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Route 141</td>
<td>923</td>
<td>645</td>
</tr>
<tr>
<td>I-44</td>
<td>296</td>
<td>123</td>
</tr>
</tbody>
</table>

* Included in total crash number
Flooding During Heavy Rain Events (occurs approx. 5-6 times per year)
Meramec Flooding at Interchange in 2015 Looking North (occurs approximately every 8 – 10 years)
Project Goals

1. Deliver the project within the program budget of $25 million.
2. Maximize mobility on Route 141 and improve efficiency at the I-44 interchange and Vance Road intersection.
3. Deliver the project in a manner which demonstrates the importance of safety.
4. Provide a quality project resulting in a long-lasting transportation facility that minimizes future maintenance.
5. Deliver the project using a diverse workforce.
<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Request for Qualifications released</td>
<td>July 7, 2015</td>
</tr>
<tr>
<td>Shortlisted teams announced</td>
<td>August 10, 2015</td>
</tr>
<tr>
<td>Request for Proposals released</td>
<td>September 2, 2015</td>
</tr>
<tr>
<td>Five one-on-one bi-weekly discussions with teams</td>
<td>September 7 through November 6, 2016</td>
</tr>
<tr>
<td>Final Proposals due</td>
<td>November 25, 2015</td>
</tr>
<tr>
<td>Apparent Best Value selection</td>
<td>January 6, 2016</td>
</tr>
<tr>
<td>Contract signed</td>
<td>February 10, 2016</td>
</tr>
<tr>
<td>Design</td>
<td>Ongoing</td>
</tr>
<tr>
<td>Begin construction</td>
<td>Summer 2016</td>
</tr>
<tr>
<td>Complete construction</td>
<td>July 15, 2018</td>
</tr>
</tbody>
</table>
Thru Turns

Vance Road and Marshall Road Intersections

- Thru Turn Intersection covering the Vance Road and Marshall Road intersections
Vance & Marshall Intersections

- Increase storage capacity
- Marshall Intersection:
  - Utilize Thru Turn for Thru & LT movements allowed

Existing crosswalk and sidewalk conditions
Increased the WB I-44 off-ramp to two lanes.
SB 141 to EB I-44 flyover provides free flow

Storage for NB lefts at Elam increased

NB 141 to WB I-44 loop provides free flow

Roundabouts improve connections to N. Outer Rd

WB I-44 to SB 141 loop provides free flow

Increased signal spacing

EB I-44 to NB 141 increased to triple left

Storage for NB lefts at Elam increased
Traffic Impacts

- “Off-line” construction
  - Most work off of 141 and I-44
  - Commitments to off-peak temporary lane closures for impacts

- North Outer Rd connections with 141 closed
  - Detours required to access North Outer Rd

- Vance Rd Intersection
  - Summer of 2017 completion

- July 15, 2018 completion
Detour Duration: 115 & 260 Days
Approximately 1.4 Miles
Safety Improvements

- Thru Turns
  - 19 fewer conflict points

- Interchange
  - 25% crash reduction at North and South Hwy Drive Intersections

- 141 Corridor
  - 57 fewer crashes per year

- Overall
  - 20% crash reduction

- Improved traffic flow results in fewer crashes
Project Overview

- Use of Thru-Turn
- Longer turn lanes prevents turning traffic from blocking through lanes
- Updated design and simplified signal timing means traffic moves more quickly and safely
- Provides good balance of 141 corridor mobility and local connectivity
- Forest Ave lane additions
- Vance Rd.
- Marshall Rd.
- Use of Thru-Turn

Updated design and simplified signal timing means traffic moves more quickly and safely.
Project Overview

WB I-44 Off Ramp

- Dual-lane exit from WB I-44
- Updated design moves traffic faster and more efficiently
- Easier access to/from N. Outer Rd.
- 2 free flow loop ramps
- Triple left reduces backups and improves safety for EB ramp
- Free flow flyover ramp
- Ramps separated from interstate
- N. Outer Rd.
- N. Hwy Dr.
- S. Hwy. Dr.
Next Steps

- Public Meeting – Date TBD
  - Tentatively planned for 1 month prior to construction

- Future CIG meetings
  - How often?

- Rte 141 & I-44 Design Build - Contact Info
  - I44.Route141@modot.mo.gov
Questions?