

Toll System



LSIORB Mandatory Meeting

May 13, 2013

INTRODUCTION - Ground Rules

- Agenda
- Sign-in sheet
- Questions at the end, or written on cards
- Meeting is being recorded
- No Recording is allowed by the Audience
- Basic submittal requirements
- No contact provision is in place — All correspondence and questions must go through Ryan Griffith and questions must be writing



Contact for Bidders

Ryan Griffith, P.E.

KYTC Director of Construction Procurement

(502)564-4780

Ryan.Griffith@ky.gov

Agenda

- Introduction
- The Project
- East End Bridge
- Downtown Bridge

Welcome

- Welcome and thanks for participating
- Joint Board, KPTIA, KYTC, IFA, INDOT roles
- Importance of the Project (East End Bridge and Downtown Bridges)
- Project – AET Project consisting of ORT & Video
- Video portion is very important

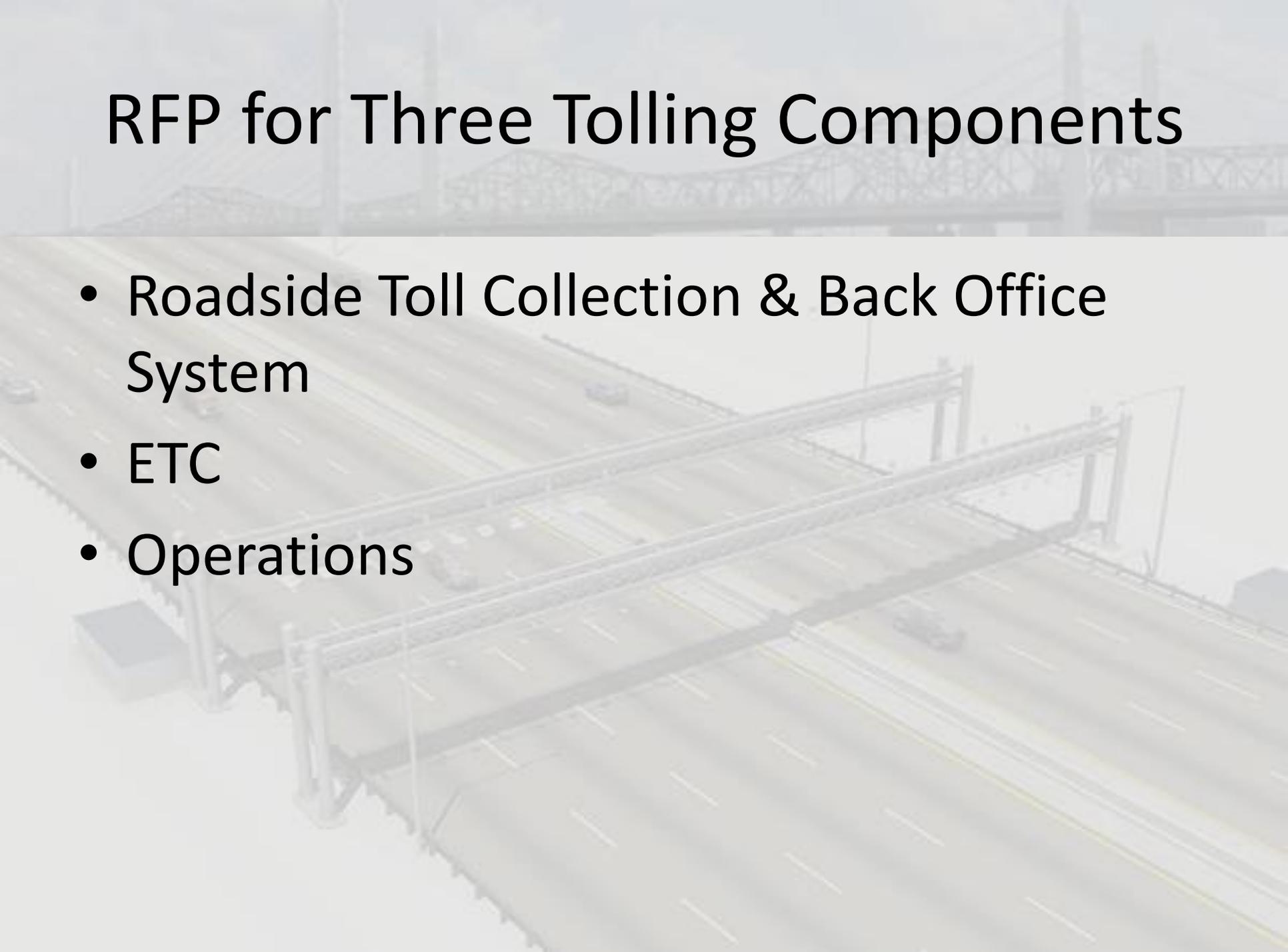
Understanding the LSIORB Project

- Downtown Bridges
 - Overview, schedule, coordination with DB Team
 - phasing of bridges
 - availability of site for RBOC
 - traffic configurations
- East End Bridge
 - Overview, schedule, coordination with Developer
 - availability of site for RBOC
- Communications between Sites

Background

- Bi-State Agreement
 - Kentucky and Indiana
 - Crossing States
- Working in Indiana for installation of Toll Zones and Walk-In Center
- Working in Kentucky to install Toll Zones, CSC and Walk-In Center
- Two New Bridges (East End and New Downtown)

RFP for Three Tolling Components



- Roadside Toll Collection & Back Office System
- ETC
- Operations

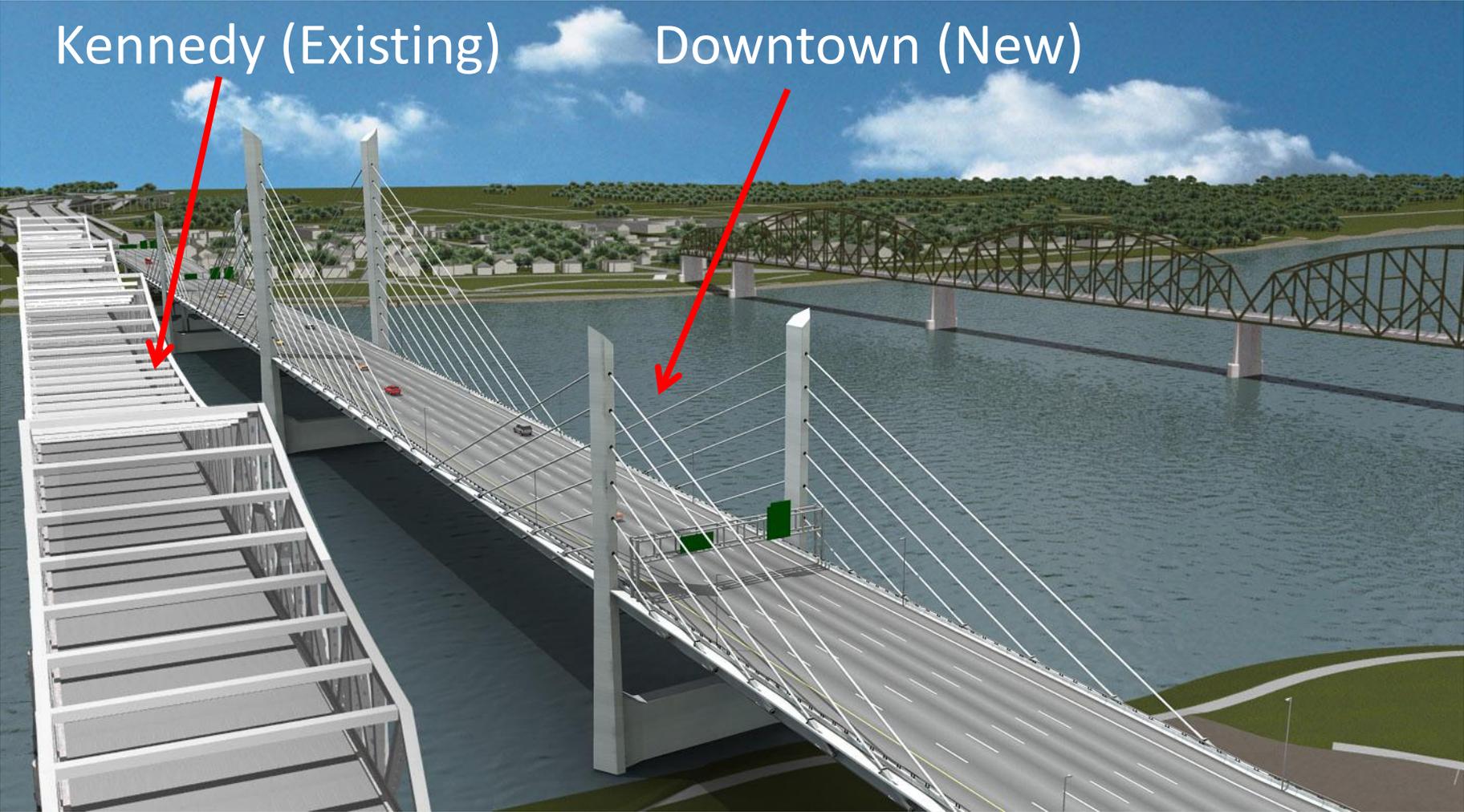
New Approach Rendering



East End Bridge Rendering



New Downtown Bridge



New Downtown Bridges Rendering



New Downtown Bridge Location



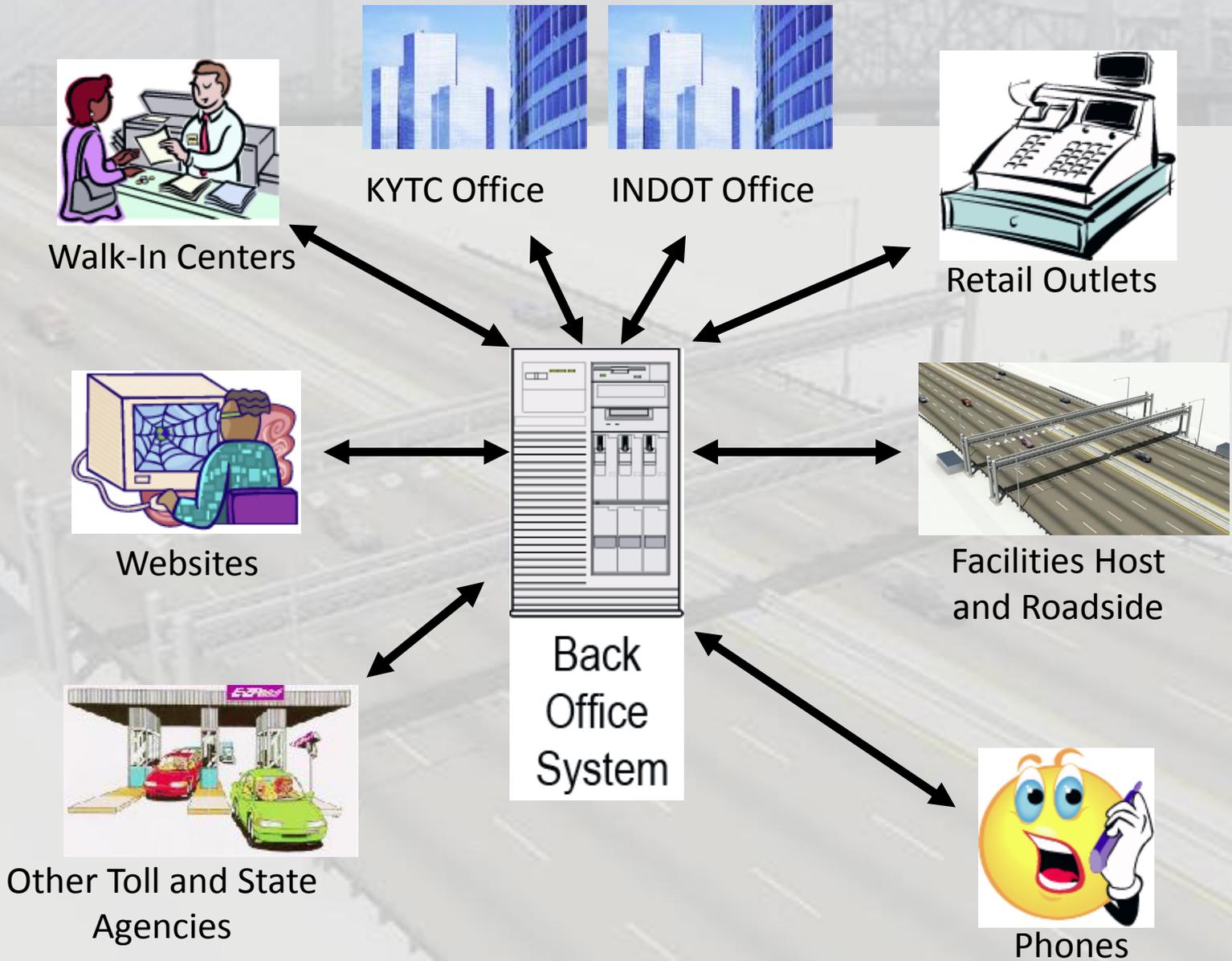
Toll System

- Roadside Toll Collection System
 - Toll Facilities Host (Central Location)
 - Plaza Server (Plaza Building)
 - Toll Zone Controller (Gantry)
 - Electronic Toll Collection (Reads Transponders)
 - Automatic Vehicle Classification (Overhead Scanner and Loops)
 - Video - Cameras (Front & Rear view)

Toll System

- Back Office System
 - ETC and Video Account Management
 - License Plate Image Review (OCR & Human)
 - Toll Billing Process
 - Violation Processing
 - Banking Interfaces
 - DMV Interfaces
 - Web Interface for Customer to Manage Accounts
 - Walk-In Centers

Toll System Concept



Operations

- Customer Service Center (Kentucky)
- Walk-in Centers (Kentucky and Indiana)
- Features
 - Common Phone System
 - Image Processing and Invoicing
 - Account Management

Key Dates and Important Information

- Proposals Due June 17, 2013 by 4:00 pm EDT
- Questions Due by May 27, 2013
- Response to Questions by May 31, 2013
- Responses are to all questions will be posted to the procurement site
- Addenda and answers posted at:
<http://transportation.ky.gov/Ohio-River-Bridges/Pages/default.aspx>

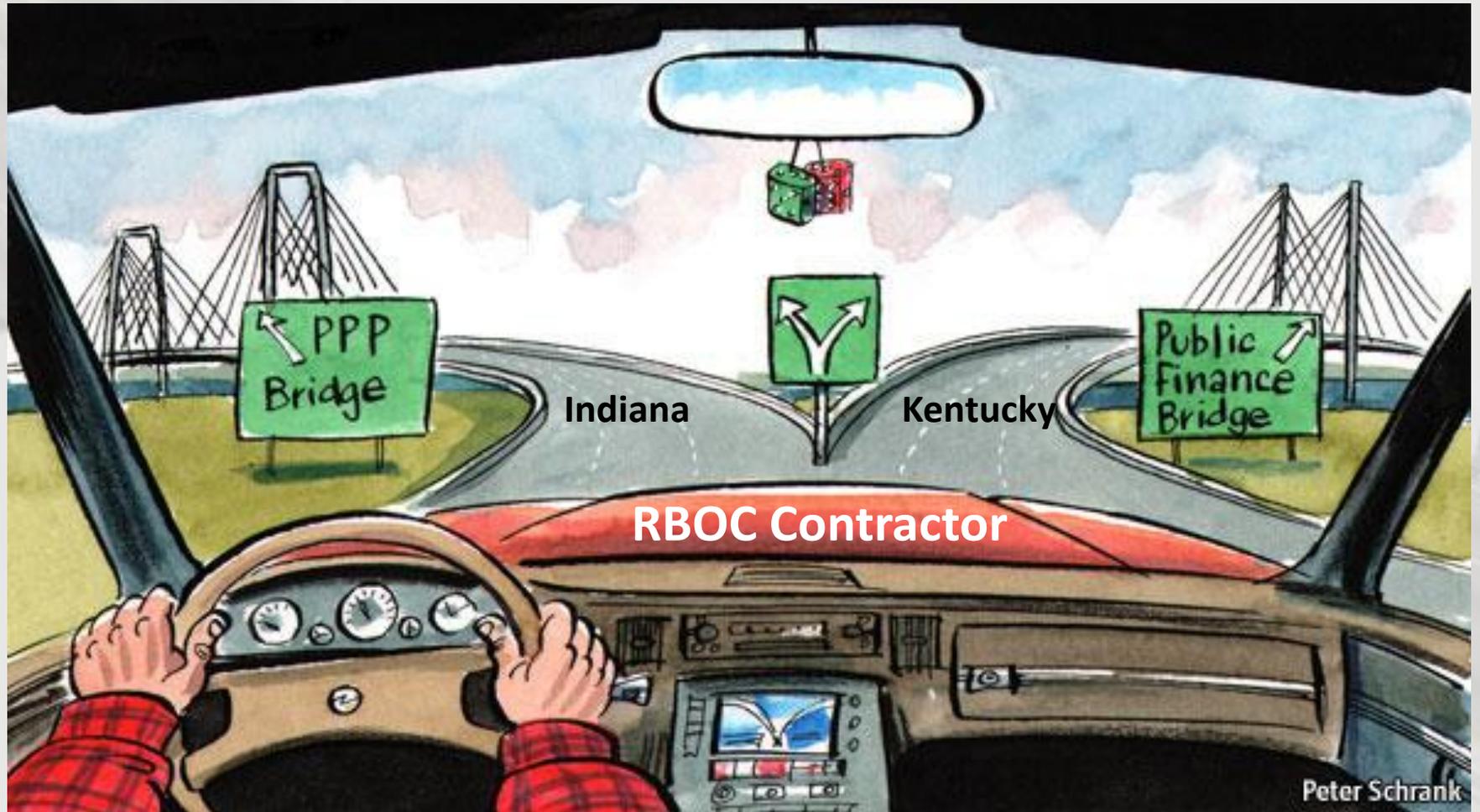
RFP – Evaluation Process

- Compliance & Qualification Review
- Technical Review
- Scoring
- Orals
- Ranking
- Pricing Evaluation
- Selection
- Negotiation
- Award
- Notice to Proceed

Design

- Preliminary Design Review
 - Initial Vendor Concept
 - Joint Board Review and Comment
 - PDR Approval
- Detail Design Review
 - Final Vendor Concept
 - Joint Board Review and Comment
 - DDR Approval
 - Commence Full System Development

Coordination Required



Testing & Implementation

- Factory Acceptance Tests (FAT)
 - Joint Board Participation, review, comment & approval
- Installation
- Site Acceptance Tests (SAT)
- System Integration Tests
- System Implementation
- Open Operations and Walk-In Centers – Jan 2016
- Open to Tolling – April 2016

Key Dependencies

- Roadway Contractor East End – PPA
 - Gantry construction
 - Access to site
 - Conduit placement
- Roadway DB Contractor Downtown
 - Gantry construction
 - Access to site
 - Conduit placement
- Communications
 - Site to Site
 - Sites to Walk-Ins and CSC

TSI—RBOC

East End Crossing

Ron Heustis, P.E.

Senior Project Manager

Indiana Department of Transportation



EEC Overview

- Section 4 (KY Approach)
 - 3.3 miles of 4-lane, LA roadway (6-lane future)
 - ~2,000 ft. tunnel under US 42 and Drumanard Estate
- Section 5 (Main Spans Structure)
 - 2,500 ft. cable-stayed bridge
 - 4-lane, accommodates future 6-lane future w/o widening
- Section 6 (IN Approach)
 - 4.1 miles of 4-lane, LA roadway
 - Reconstruct SR 265/SR 62/Port Rd interchange

EEC Overview

- Owner – Indiana Finance Authority (IFA)
- Owner’s Authorized Rep – INDOT
- WVB East End Partners – Developer
- WVC – Design/Build Joint Venture
- Jacobs – Lead Design Firm

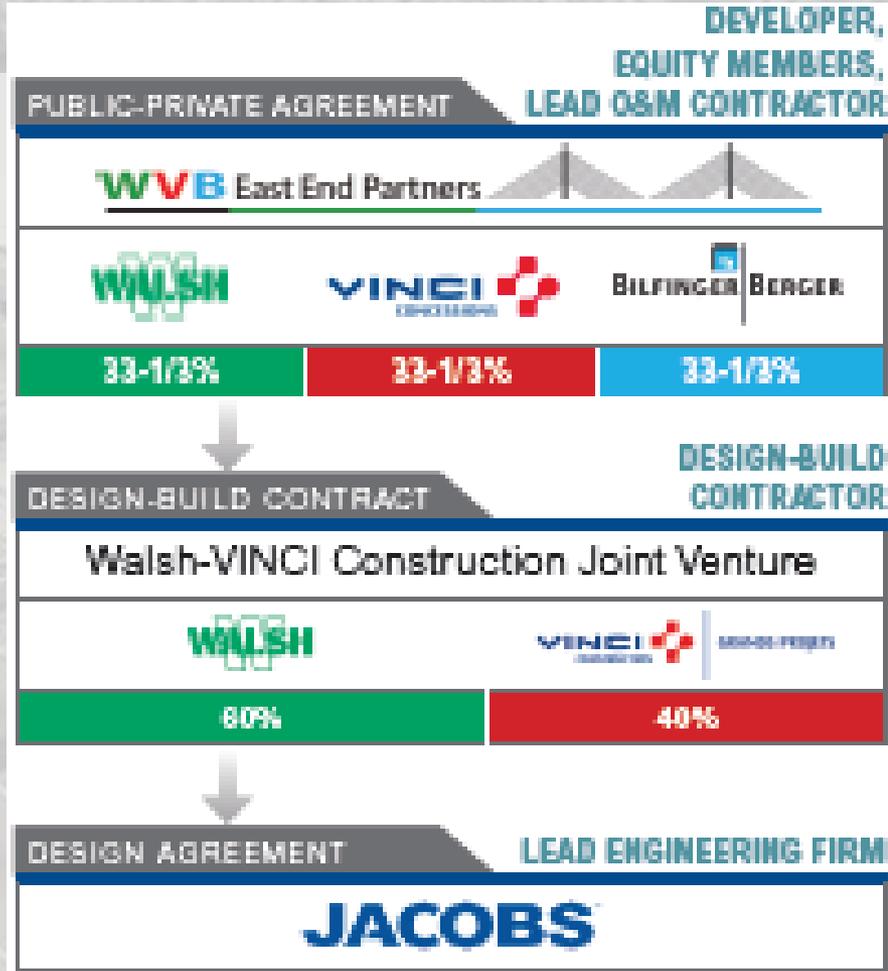
LISORB – East End Crossing

EEC Overview

Owner



Owner Rep & Support



Schedule Overview

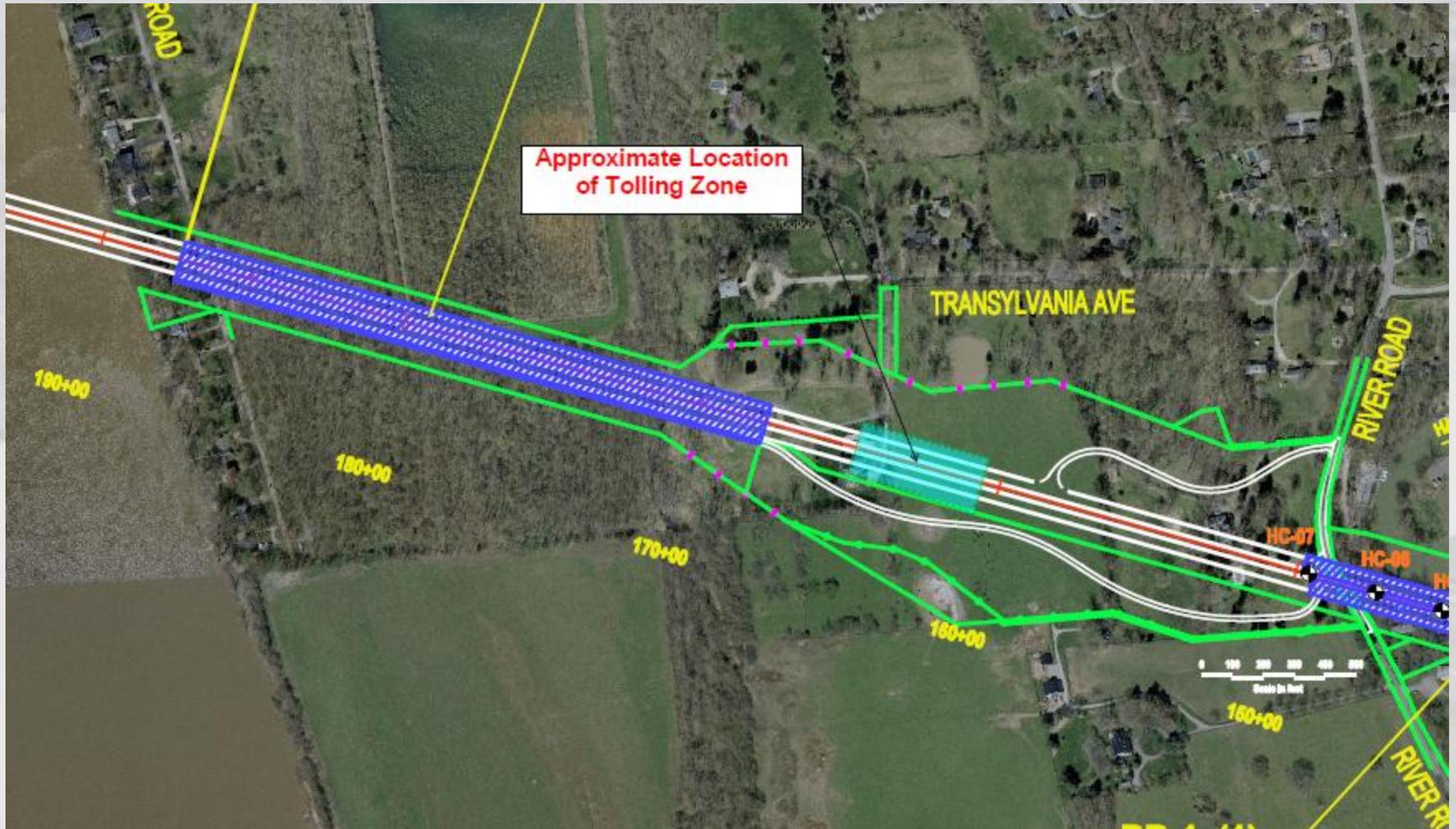
- Mid May 2013 – Commencement of Construction
- Aug 2014 – Complete main span pier foundations
- July 2015 – Complete tunnel excavation & initial liner
- Oct 2015 – Complete main span towers & western limits of Section 6
- May 2016 – Complete final tunnel liner
- May 2016 – Complete main span superstructure erection
- July 3, 2016 – Tolling Infrastructure Turnover to TSI-RBOC (120 days prior to SC)
- Oct 31, 2016 – Substantial Completion/Open to Traffic

EEC Contract Documents

- Two Volumes
 - Public-Private Agreement
 - Technical Provisions
- Contract Documents on IFA website

www.in.gov/ifa

Tolling Zone Location



Developer's Tolling Requirements

- Section 20 of Technical Provisions
 - 20.3 – General Requirements
 - Table 20-1 – Responsibility Matrix
 - 20.6 – Coordination
 - 20.6.1 – Tolling Infrastructure Turnover

Site Availability for TSI-RBOC

- **Section 5.8.2.3 of PPA**

No later than one hundred twenty (120) Days prior to the date of expected DB Substantial Completion, Developer shall complete all Work required to achieve Tolling Infrastructure Turnover as determined by IFA in its reasonable discretion and shall provide access to the Site for the Toll Systems Integrator to commence installation and testing of the Toll Collection System.

Site Availability for TSI-RBOC

- **Section 5.8.2.4 of PPA**

Notwithstanding the foregoing and the satisfaction by Developer of all other conditions to DB Substantial Completion, DB Substantial Completion shall not be deemed to have occurred until the earlier of (i) the passage of one hundred twenty (120) days after IFA's reasonable determination that Developer has achieved the Tolling Infrastructure Turnover Date or (ii) the Tolling Systems Integrator's completion of its work and acceptance thereof by IFA.

Site Availability for TSI-RBOC

- **Section 5.8.2.5(a) of PPA**

Developer shall provide IFA with two hundred seventy (270), one hundred eighty (180), one hundred twenty (120) and twenty (20) Days' advanced Notice of the date of expected DB Substantial Completion, in each case to afford the Toll Systems Integrator the opportunity to plan, mobilize and test the Toll Collection System.

Commencement of Tolling

- **Section 11.2 of BSDA**
 - 11.2.1 Tolling to start on each of the new bridges as soon as they are open for traffic.
 - 11.2.2 Kennedy Tolling – Tolling to commence on the earliest of the following ...
 - DTC Substantial completion
 - EEC Substantial completion
 - June 30, 2018

TSI—RBOC

Downtown Crossing

Andy Barber, P.E.

Project Manager

Department of Highways District 5

Kentucky Transportation Cabinet



Downtown Crossing Overview

- Section 1 (Kennedy Interchange)
 - Reconfiguration of I-64 I-65, & I-71 interchange in Downtown Louisville
- Section 2 (River Crossings)
 - 2,114 ft. cable-stayed bridge and approach spans
 - 6 lanes northbound I-65
 - Redecked Kennedy Bridge
 - 6 Lanes Southbound I-65
- Section 3 (IN Approach)
 - Approx. 1 mile of widening and CD improvements
 - Tolling Zone located in this section

Downtown Crossing Overview

- Owner – Kentucky Transportation Cabinet
- Walsh Construction—Design Build Team
- Jacobs – Lead Design Firm



Schedule Overview

- July 2013 – Commencement of Construction
- April 2016 – New Cable-Stayed Bridge open to bi-directional traffic
- April 2016 – Redecking of Kennedy begins under part-width construction
- April 2016 – Tolling begins under temp. configuration
- August 2016 – Traffic on Kennedy is flopped to other side
- August 2016 – Tolling continues
- Dec 9, 2016 – Substantial Completion/Final Configuration
- Dec 9, 2016 – Tolling in final configuration

Downtown Crossing Contract Documents

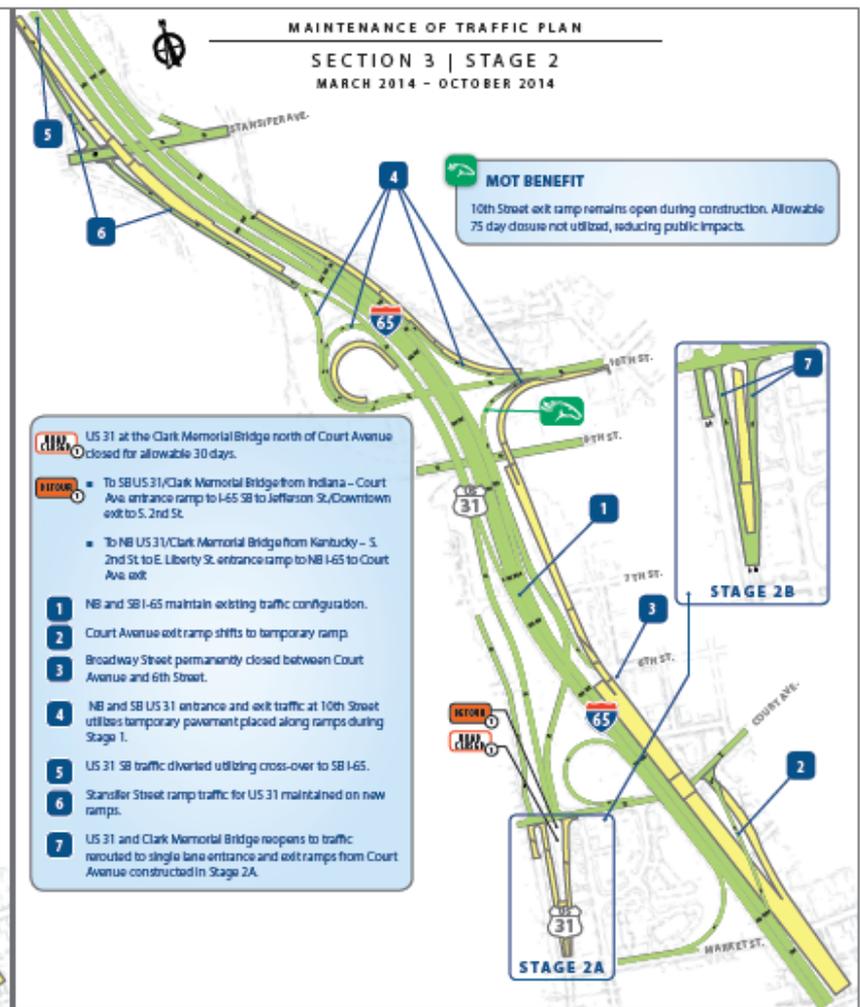
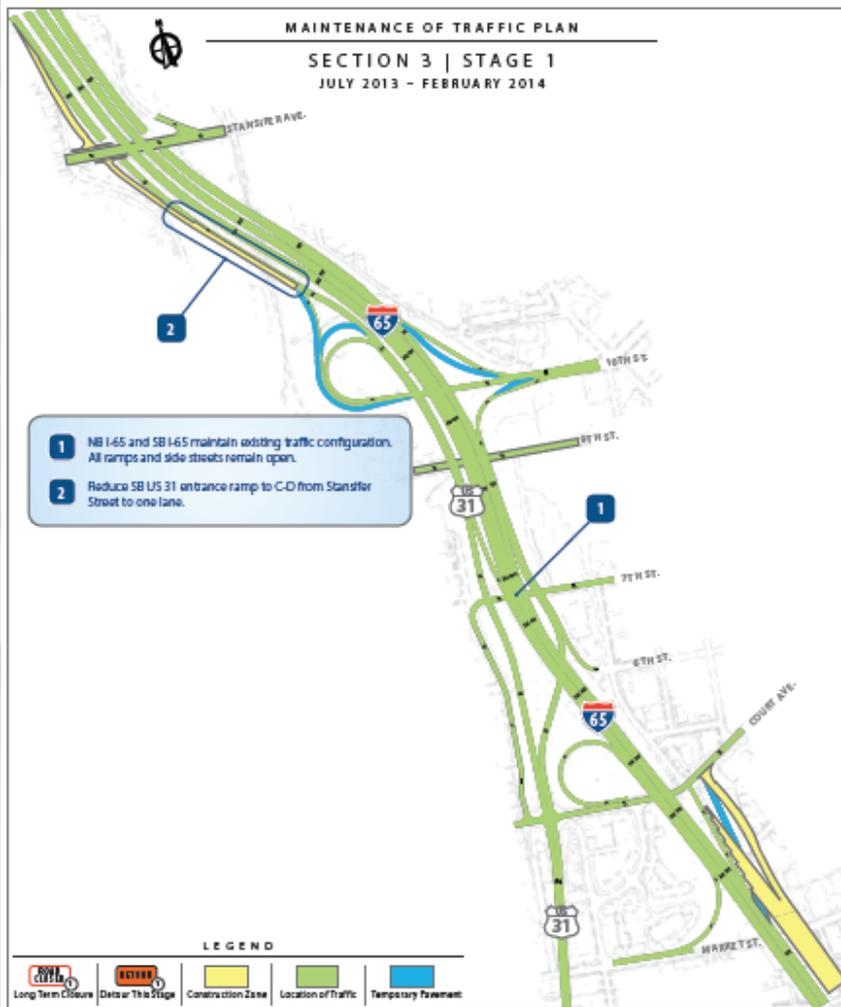
- Downtown Crossing RFP
 - Project Scope
- Contract Documents on KYTC Division of Construction Procurement website:

transportation.ky.gov/Ohio-River-Bridges

Design Build Team's Tolling Requirements

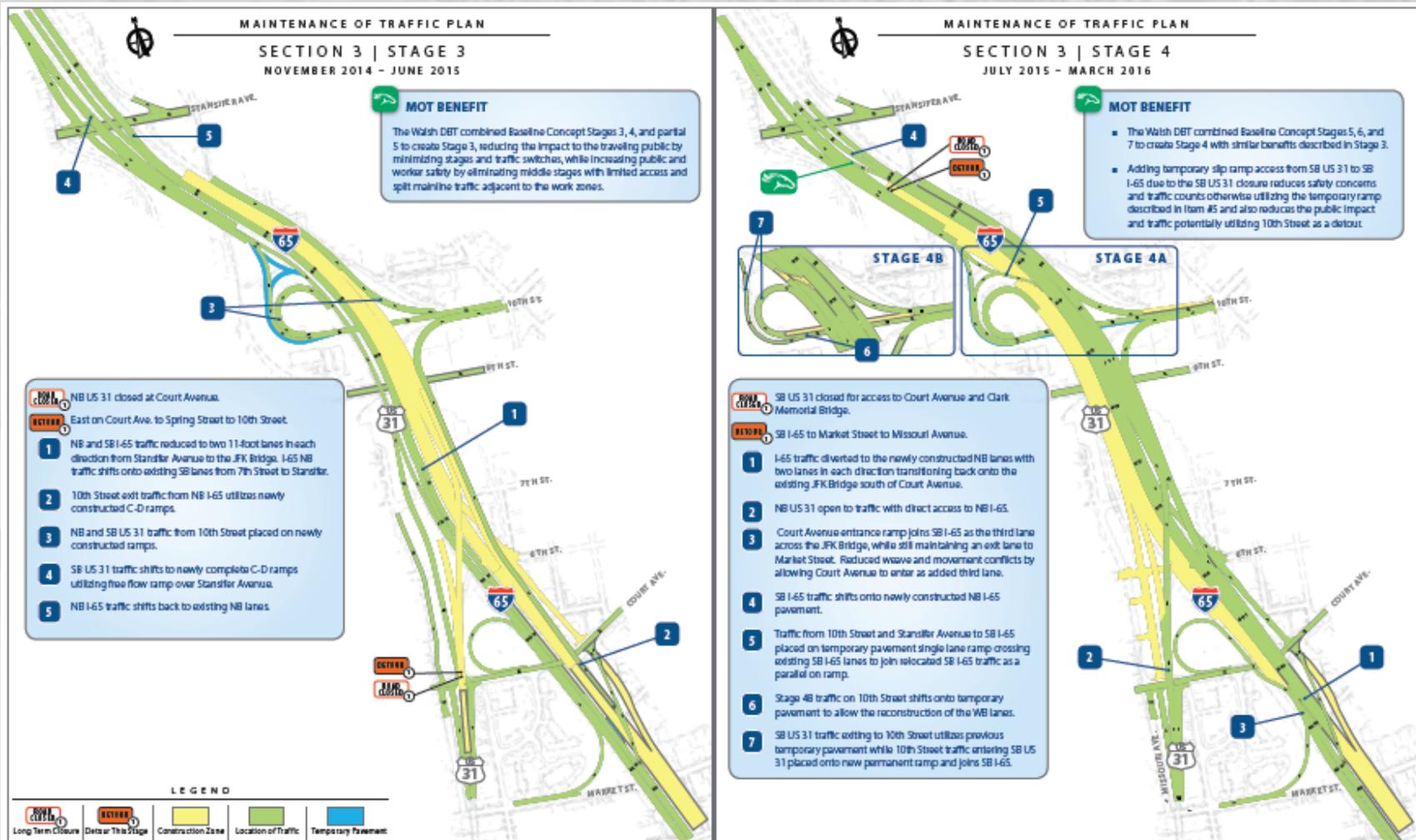
- See Sections 18 & 19 of Project Scope
 - 18—Intelligent Transportation System (ITS)
 - 19—Electronic Toll Collection System Technical Provisions
 - 19.3 – General Requirements
 - 19.3.3 – Coordination

MOT Phases 1 and 2 (July 2013-Oct. 2014)



Walsh's Proposed MOT Phasing. Subject to change.

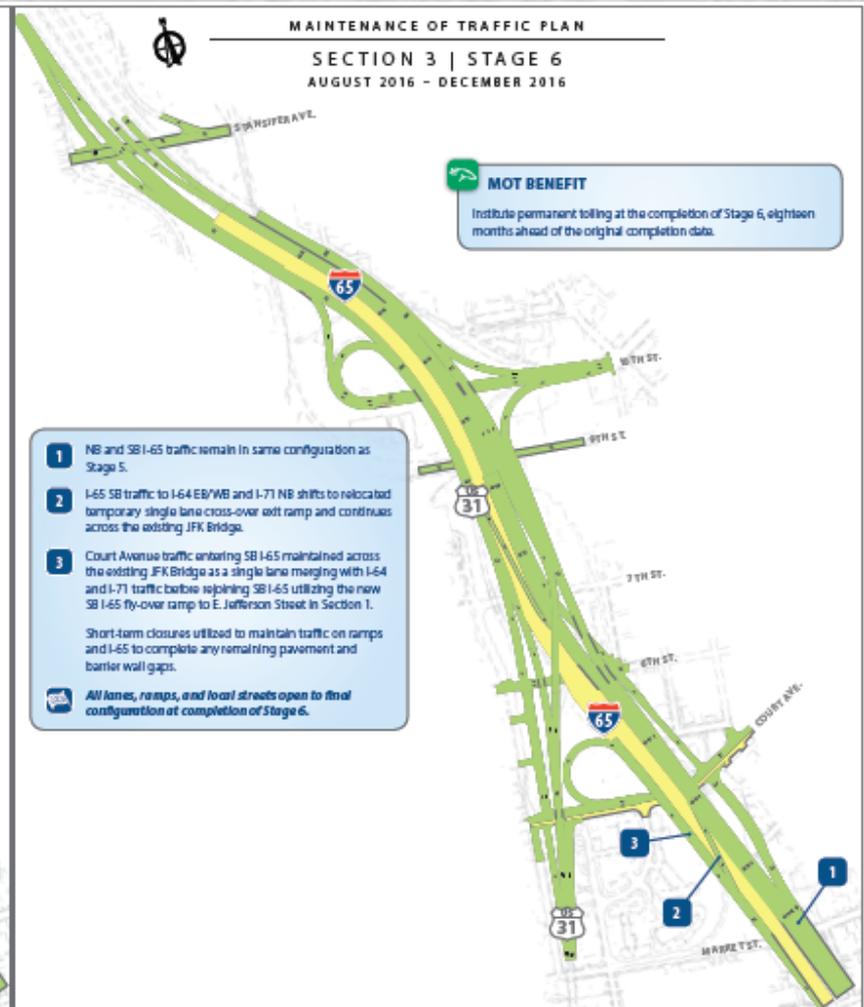
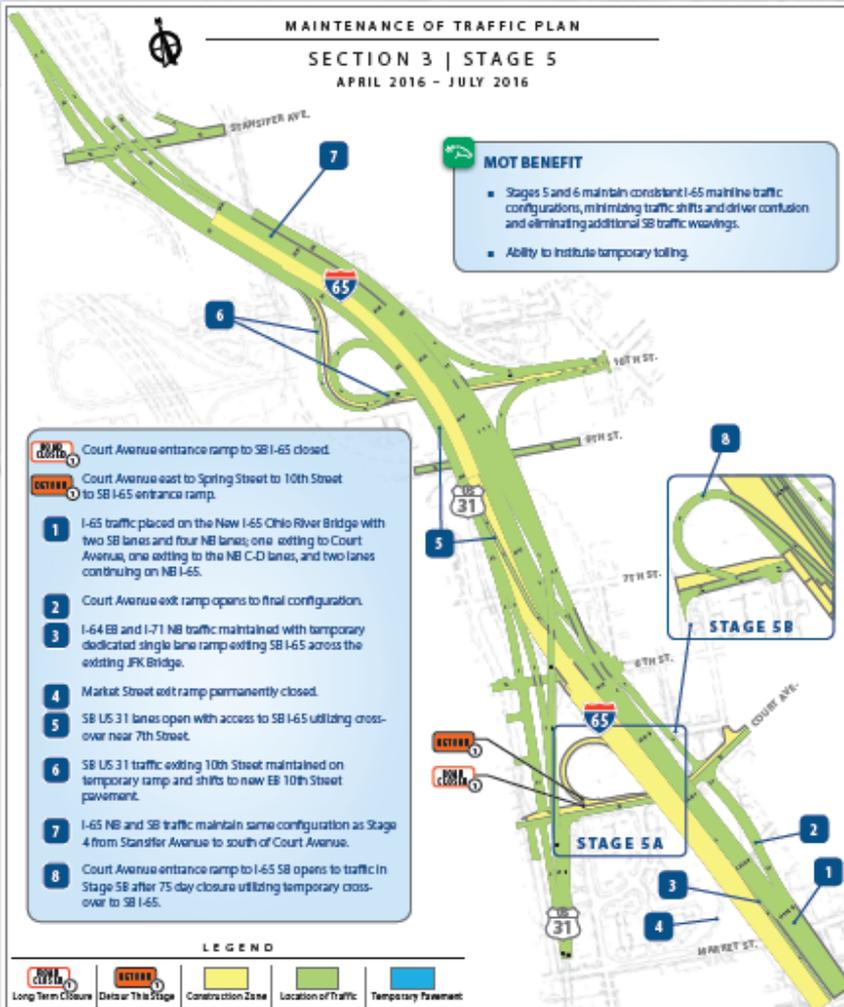
MOT Phases 3 and 4 (Nov. 2014-March 2016)



Walsh's Proposed MOT Phasing. Subject to change.

Temporary Tolling during these phases

(April 2016-December 9, 2016)



Walsh's Proposed MOT Phasing. Subject to change.

Coordination

- Toll Oversight (CAI, both crossings)
- Developer (PPA – East End Bridge)
- Design Build Contractor (Downtown Crossing)
- Operations Contractor (TBD)
- ETC Contractor (TBD)

ETC

- Proposal Date – July 29, 2013
- Includes
 - Equipment and Engineering
 - Integration by RBOC
- Coordination and integration
 - Key to meeting dates

Operations

- Proposal Date – August 16, 2013
- Coordination
 - Facilities and needs
 - Installation
 - Testing and Training
 - Maintenance

Legal

- **Contract**
 - Federal Mandates
 - Substantial Completion
 - Liquidated Damages
 - Forms and Requirements
 - Bonds Required

Questions

