

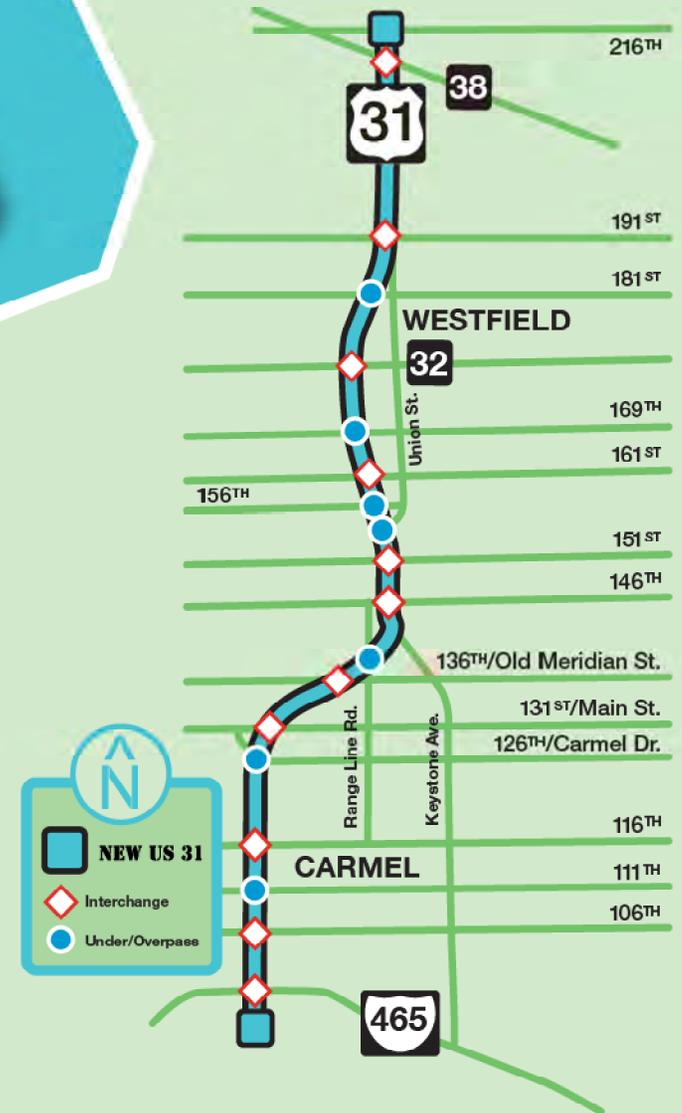
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THE NEW US 31 HAMILTON COUNTY

Accelerated Delivery of US
31, Hamilton County

Bidders' Information
Conference

May 16, 2012



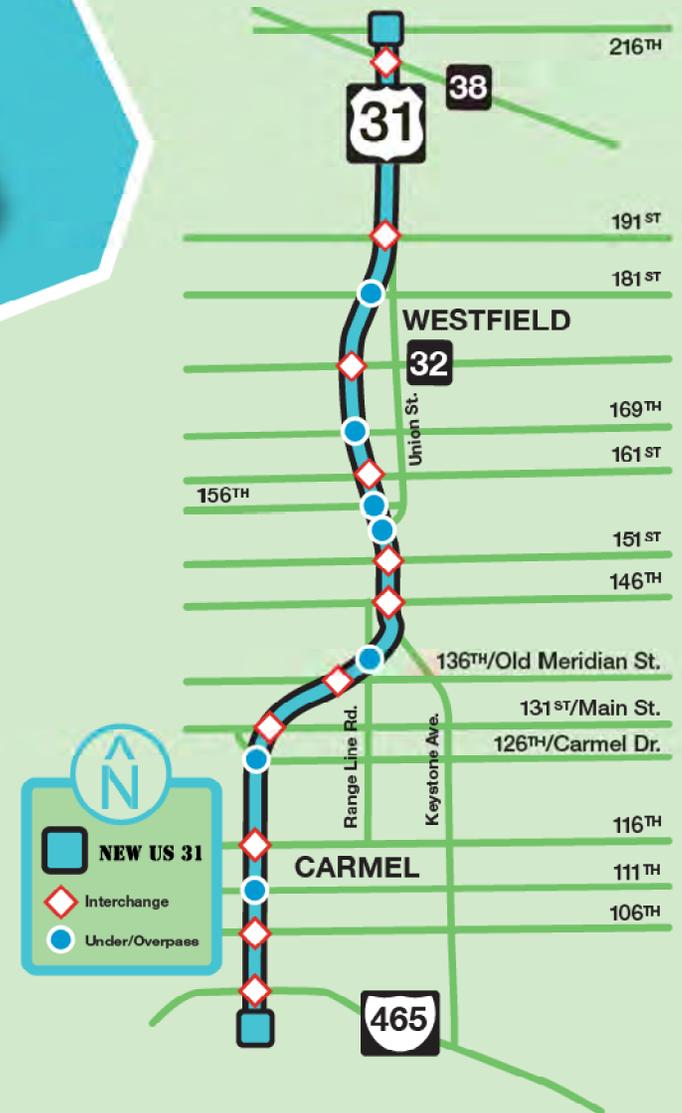
Agenda

- Program Overview
 - Project Team
 - Project Summary
 - Construction Performed to Date
 - Procurement Overview
- Project Overview
 - Scope of Major Construction Items
 - Context Sensitive Solutions
 - Construction Sequencing & MOT
 - Utility Relocation Plan
 - Project ROW Acquisition
 - Next Steps

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Project Team



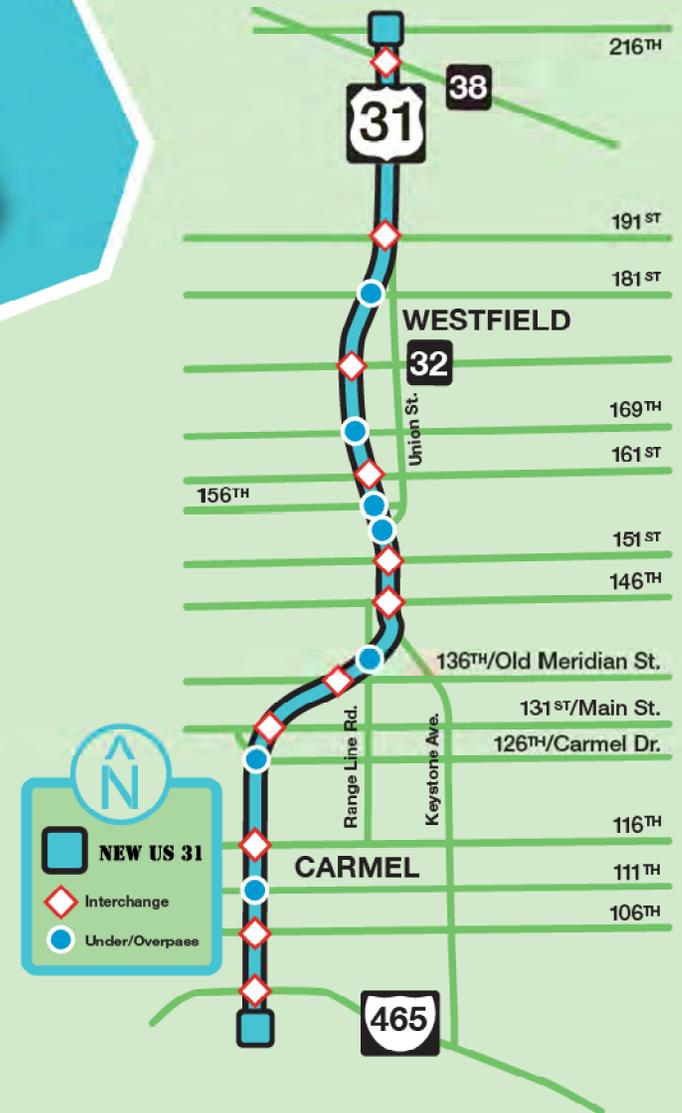
Project Team

- **Cosponsor : Indiana Department of Transportation**
 - Chris Kiefer, Director of Public Private Partnerships
 - Gary Pence, Project Manager
- **Cosponsor: Indiana Finance Authority**
 - Kendra York, Public Finance Director
- **Federal Highway Administration**
 - Bob Tally, Division Administrator
- **Consultant Team:**
 - Design Lead: R.W. Armstrong
 - Procurement Lead: Parsons Brinckerhoff

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Project Summary



Project History

- Roadway upgraded to freeway standards US 31 from I-465 to 216th Street.
- Part of Major Moves initiative.
- Project Record of Decision was received in January 2009.
- Construction began in 2011 at SR 38 interchange, 146th Street.
- Six construction contracts will have been awarded by NTP of this contract.

Major Component Overview

- 10 Miles of four lane divided Freeway; 27 Lane Miles of S Line
- Construction of ten interchanges
- Structures Construction of 38 new bridges (11 sets of twins and 16 individual bridges).
 - 25 prestressed concrete girder bridges, 9 structural steel girder bridges and 4 precast concrete three-sided structures.
 - Five bridges over creeks.
- 700k SY of Pavement – (Alternate bid Concrete versus Asphalt)
- 1 million SF of Retaining Wall
- 1.2 mil CY of Excavation; 1.9 mil CY of Borrow
- 350k CY of B Borrow; 570k CY of Structural Backfill
- Relocation of 17.2k ft of water line; 15.6k ft of Sanitary Sewer
- 9.7k ft of Directional drilling
- 50 ea overhead Sign Structures
- ITS
- 25 ea Building Demolition
- *No Noise Wall construction*

Cross Roads & Interchange Overview

- I-465 – Interchange
- 103rd – Cul-de-sac
- 106th – Interchange
- 111th – Crosses over US 31
- 116th – Interchange
- Old Meridian St – NB slip ramp
- 126th – Crosses over US 31
- 131st – Interchange
- 136th – Interchange
- Monon Trail – Crosses under
- Circle Drive – Access redirected to Clay Terrace Blvd.
- Rangeline Road – Crosses under
- 146th – Split interchange
- Greyhound Pass - Right in/right out access off frontage roads
- 151st – Split interchange

Cross Roads & Interchange Overview

- South Union / Westfield Boulevard – Crosses Under
- 156th – Crosses Under
- Buena Vista Drive –rerouted to Farr Hills Drive
- 161st – Interchange
- 169th – Crosses under
- Park Street - Cul-de-sac
- SR 32 – Interchange
- 181st – Crosses under
- South Drive or North Glen Drive – Closed, no cul-de-sac
- Blackburn Avenue – Cul-de-sac
- North Union – Removing pavement between US 31 and North Union
- 191st – Interchange
- 196th – Cul-de-sac
- 202nd – Cul-de-sac
- 203rd – Cul-de-sac
- SR 38 – Interchange

Public Outreach Efforts

Ongoing Public Outreach

- Community Advisory Committee (CAC) meetings
 - To represent the interests of the City of Carmel, City of Westfield and Hamilton County
- E-newsletter distributed regularly
 - Subscribe via project website or at registration table
- Updates sent to businesses along the corridor
 - Recent mailing to nearly 400 businesses
- Presentations to groups upon request
 - More than 50 given to date
- “Construction/Closure” tab on the website
 - Home to latest construction updates
- Subscribe to text updates by texting ROADS to 411247
- Utility Coordination Meeting
 - Discuss upcoming major investments by utility companies

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US 31 Information on the Web

<http://us31hamiltoncounty.in.gov/>

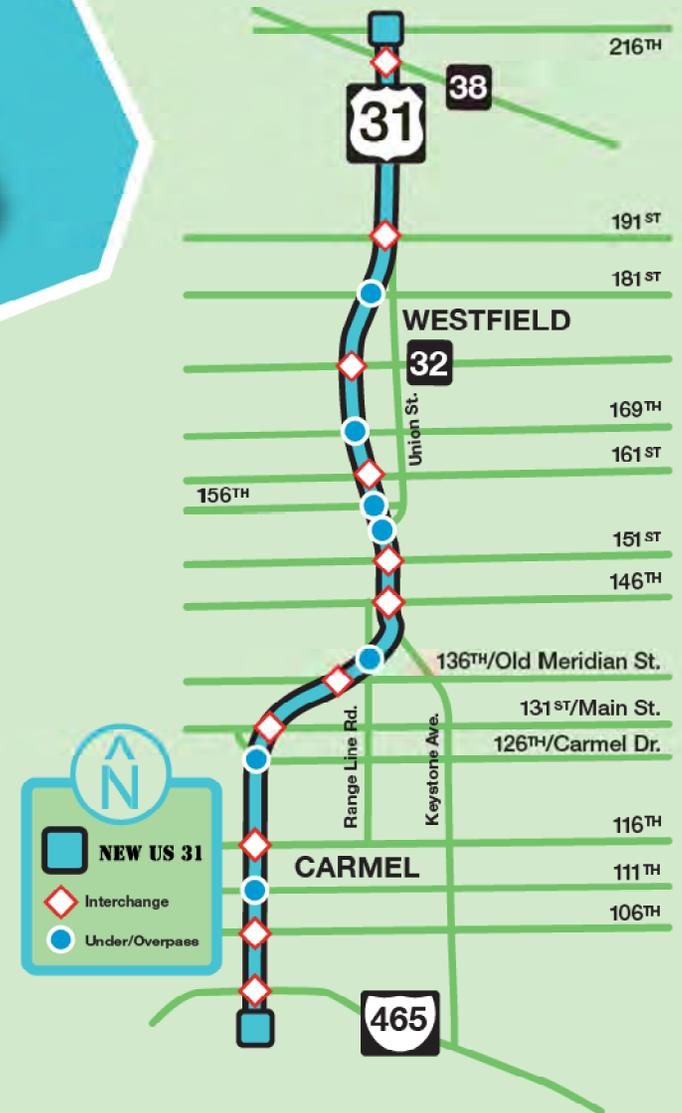
- Construction Information
- Public records (ROD, Public Hearing Presentations, etc.)
- Other public presentations
- This presentation and other procurement materials will be located there



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Construction Performed to Date



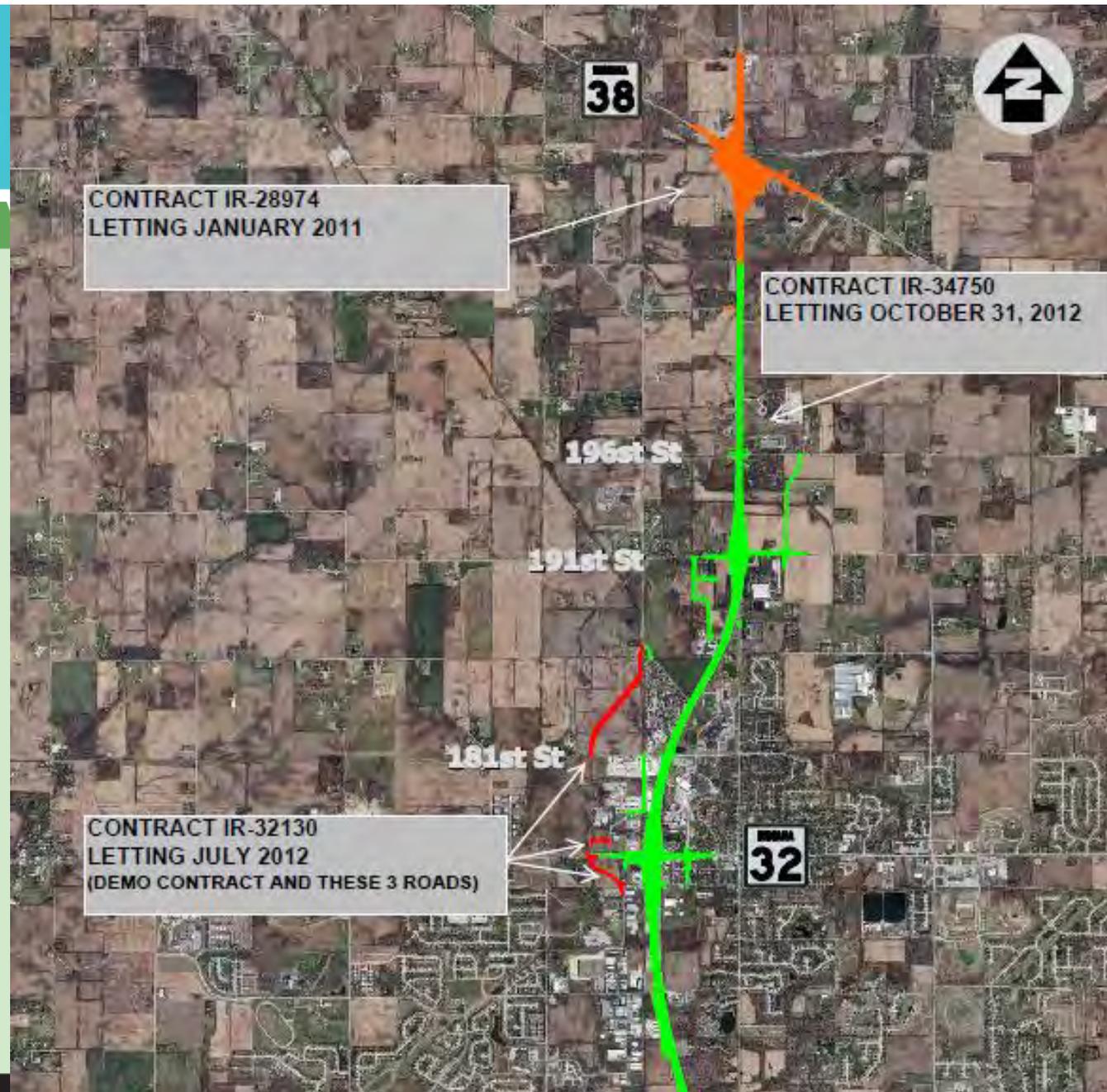
Construction to Date

- IPL Transmission Towers Relocated
- SR 38 Construction on schedule for completion 2012
- 146th Street Construction – Finish May 2012
- Segment 5 – Monon Trail to Greyhound Pass awarded November 2011 – Opened to traffic Fall 2012
- Continued Success with Public Involvement – Public remains engaged and interested in supporting INDOT.

Contracts to be let in 2012

- Segment 20 letting Spring 2012
 - Clearing and Demo 25 buildings
 - Utility Relocations from 126th to SR 32
 - Build Farr Hills, Buena Vista and 169th Connectors and bridge on drive access to Westfield Facility
- Segment 3 letting Summer 2012
 - Clearing and 25 additional building demos
 - Utility Relocations 146th Street to SR 32
 - Wheeler Road

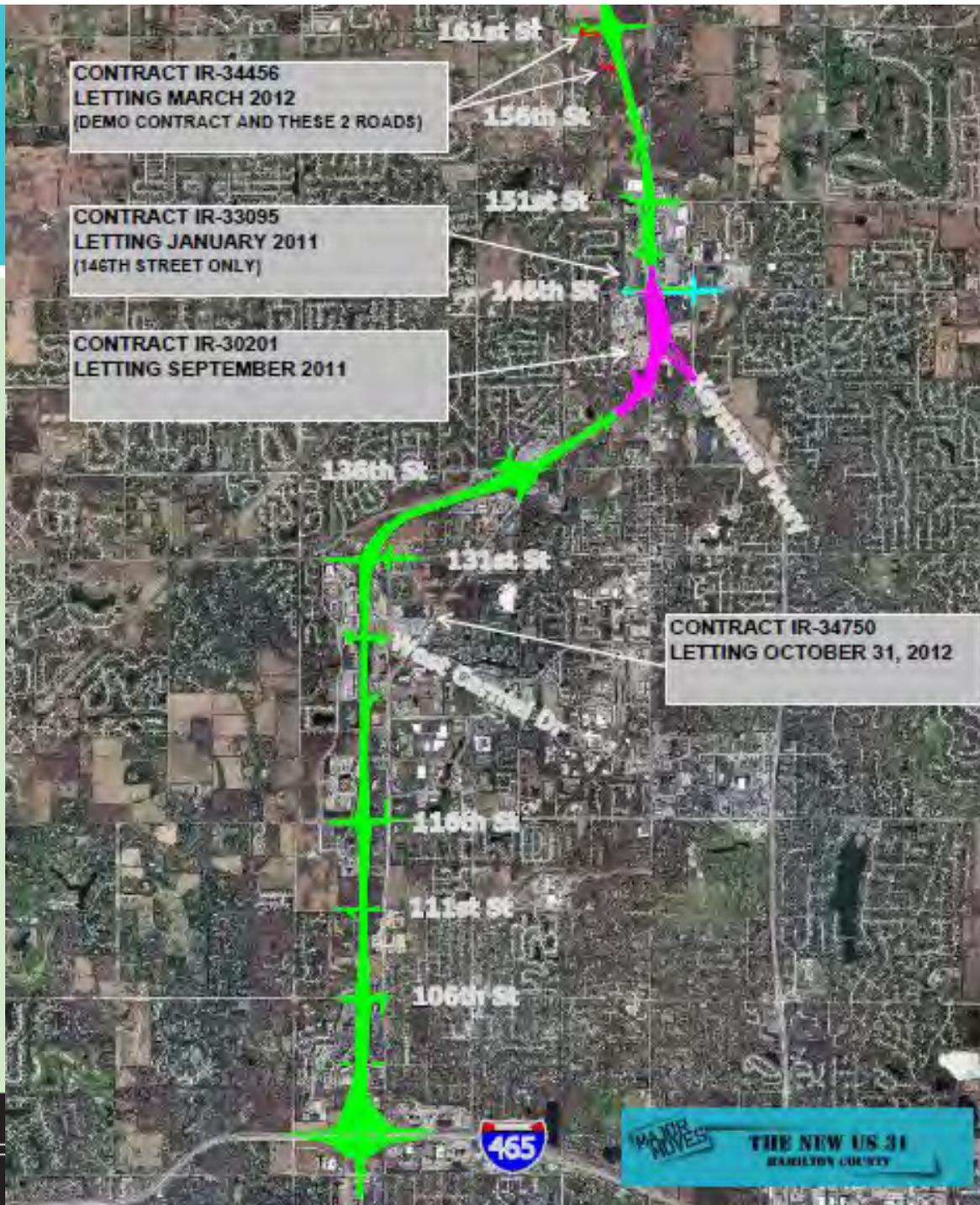
Contracts to be let in 2012 (north)



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Contracts to be let in 2012 (south)



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Procurement Overview



Nick Amrhein

www.us31hamiltoncounty.in.gov

Construction Project Procurement Overview

- Supplemental Work (performed by INDOT)
 - ROW to be obtained prior to construction
 - Some utility work procured separately
 - Construction inspection & oversight
- Design-Bid-Build Construction Contract
 - 100% design provided by RWA / PB team and approved by INDOT (in progress)

Design-Bid-Build Construction Options

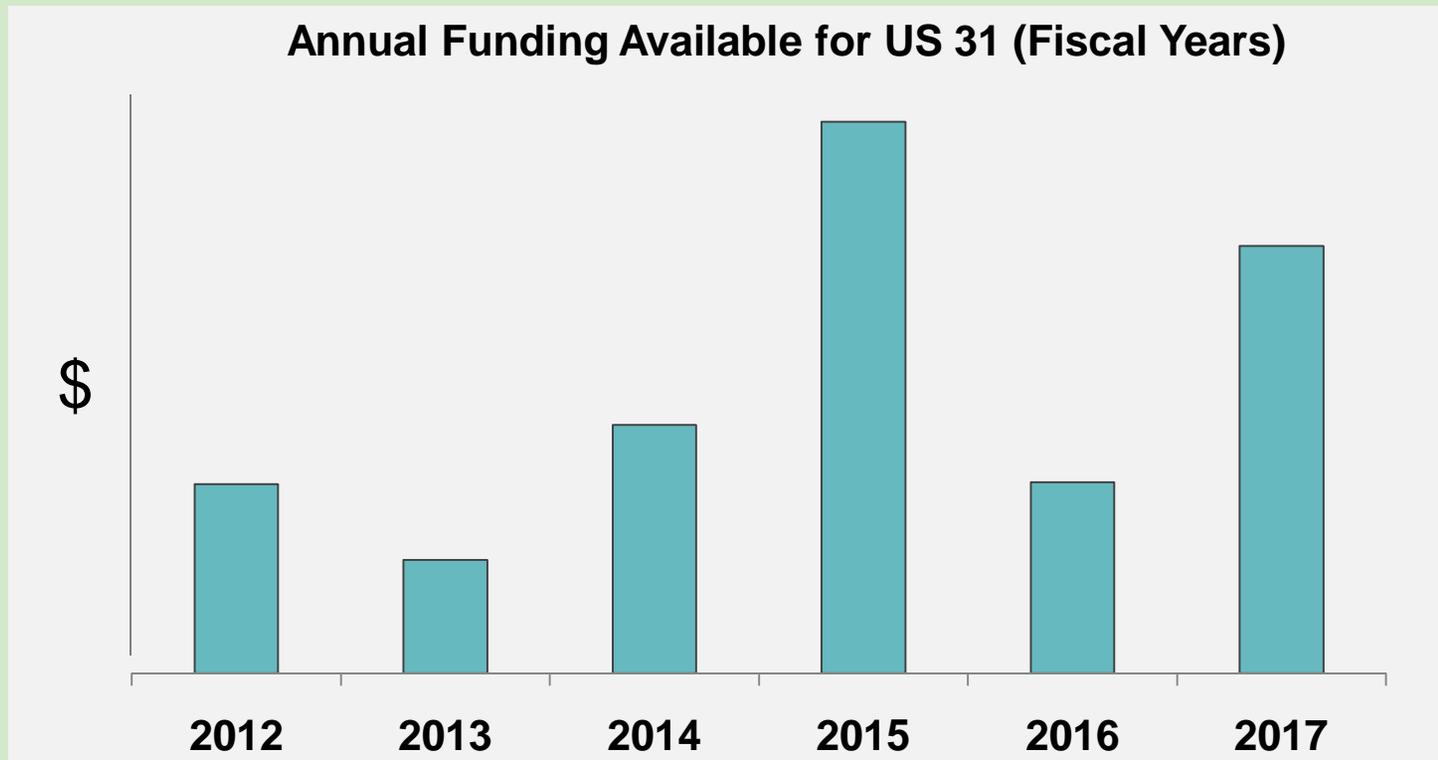
Procurement Approach Under Development

- (1) Pay-As-You-Go
 - Projects let based on limited annual construction funding availability
- (2) Build-Finance
 - Three-year accelerated construction period
 - Private financing

Construction Funding Options: (1) Pay-As-You-Go

- Multiple construction contracts / contractors
- Construction of project segments let according to annual funding availability for US 31 balanced with other INDOT needs
- Low-bid standard procurement for individual construction contracts with independent utility
- No financing from contractor required
- Standard monthly invoicing to INDOT

Pay-As-You-Go Funding

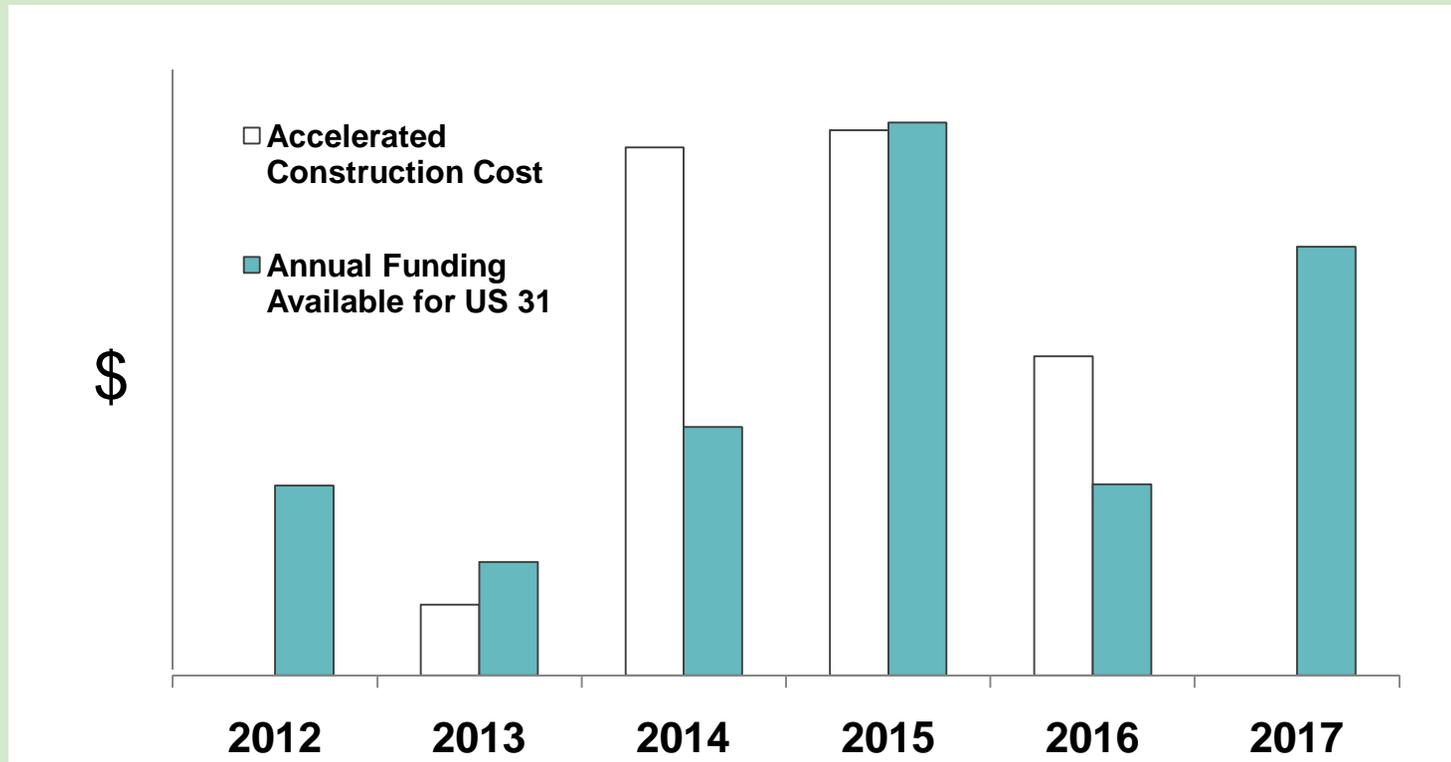


- Pay-As-You-Go funding plan spans through FY 2017

Construction Funding Options: (2) Build-Finance

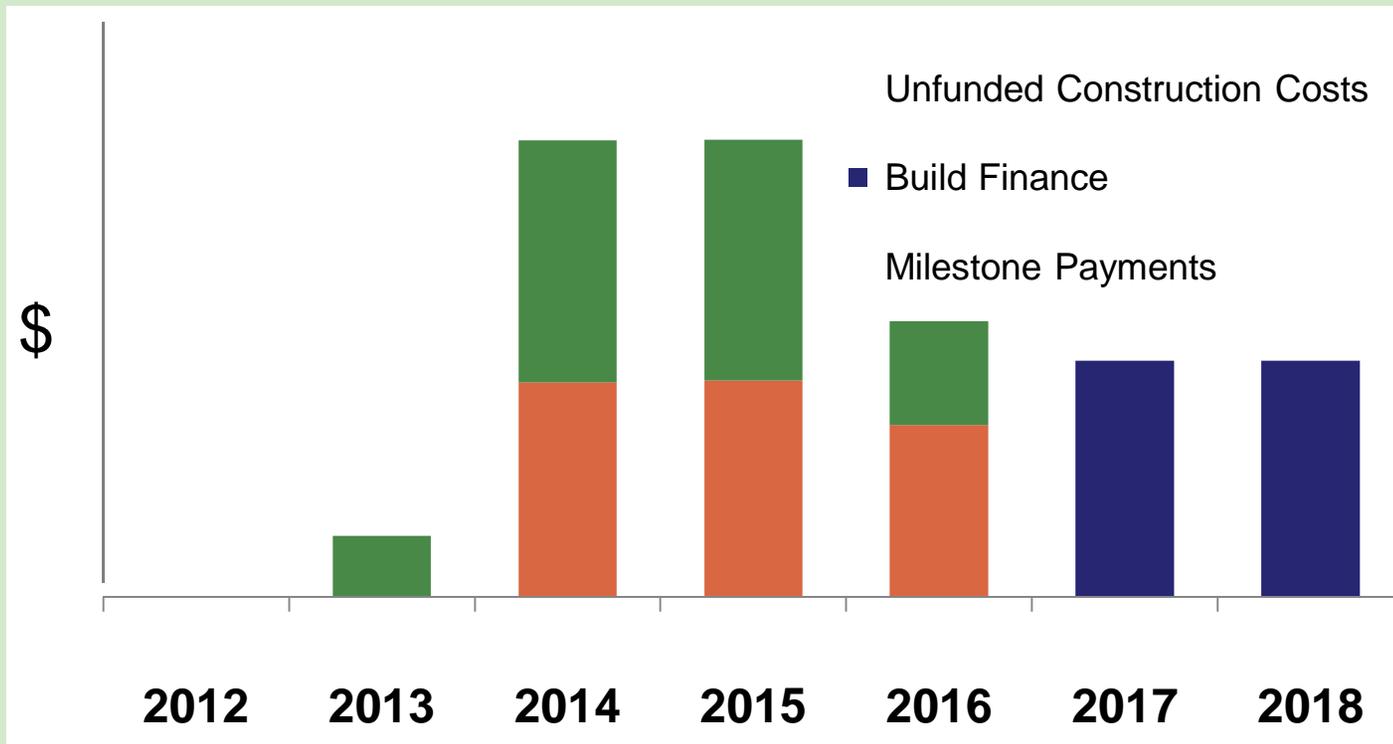
- Construction according to 3-year accelerated schedule (2013 to 2016)
- Single construction contract with one primary contractor
- Contractor funds project construction internally or with financing partners
- Contractor / partners repaid by State
 - Milestone Payments during construction
 - Residual payments after construction

Accelerated Construction Example



- Current funding does not fit with accelerated construction requirements

Accelerated Construction Example



- Build-finance approach would help match funding to costs so that the project could be delivered sooner.

Procurement Next Steps

- One-on-one meetings this week
 - Discuss pros and cons of private participation in project financing
- Obtain FHWA funding approvals
- If Build-finance
 - RFQ in July to shortlist qualified teams
 - RFP in August for low bid procurement
- If Pay-as-you-go
 - Advertisements beginning in late 2012

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Scope of Major Construction Items



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DRAFT - Future Construction Sequencing

2013



SR32/191st St.
Offline and
shoulder impacts

151st/161st streets
Full construction

I-465 to 136th St.
Minimal work

2014



SR32/191st St.
Full construction

151st/161st streets
Complete

I-465 to 136th
Offline & Shoulder
Impacts

2015



SR32/191st St.
Complete

I-465 to 136th St.
Full construction

LEGEND

- Existing
- Under Construction
- Completed

I-465 Interchange



- Extensive reconstruction of interchange and change to existing traffic patterns
- Closes access at 103rd Street and interchange at 106th Street
- Coordination with I-465 NE improvements
- Includes painting of I-465 structure over US 31

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I-465 Interchange

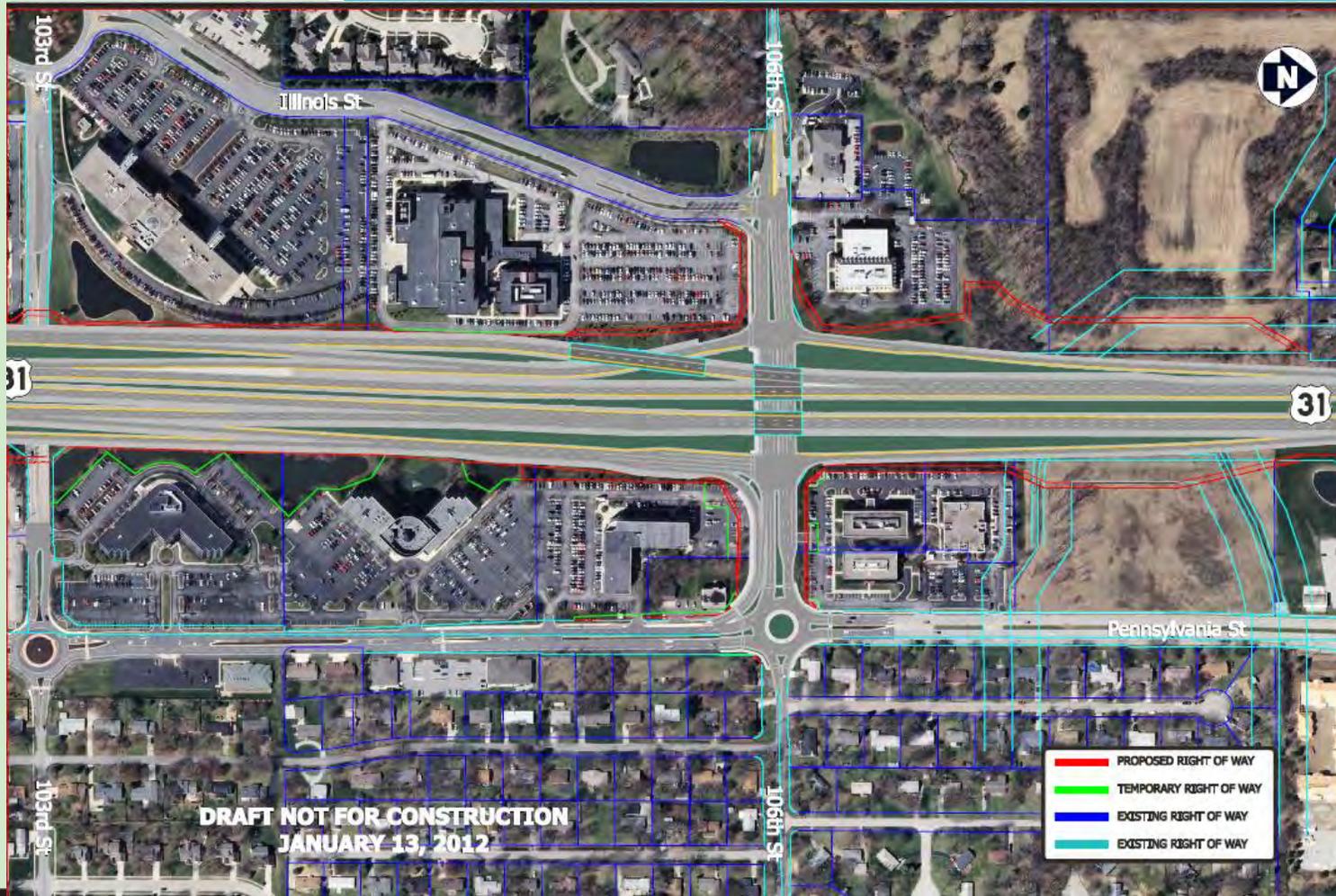


106th Street Interchange



- Diamond interchange is currently in the plans
- Considering roundabout interchange to match local thoroughfare plan
- Planned Illinois Street extension and access road by the City of Carmel with a construction date of 2014
- 103rd / 111th open until interchange is constructed
- Coordination with St. Vincent's Heart hospital will be required

106th Street Interchange



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106th Street Interchange



116th Street Interchange

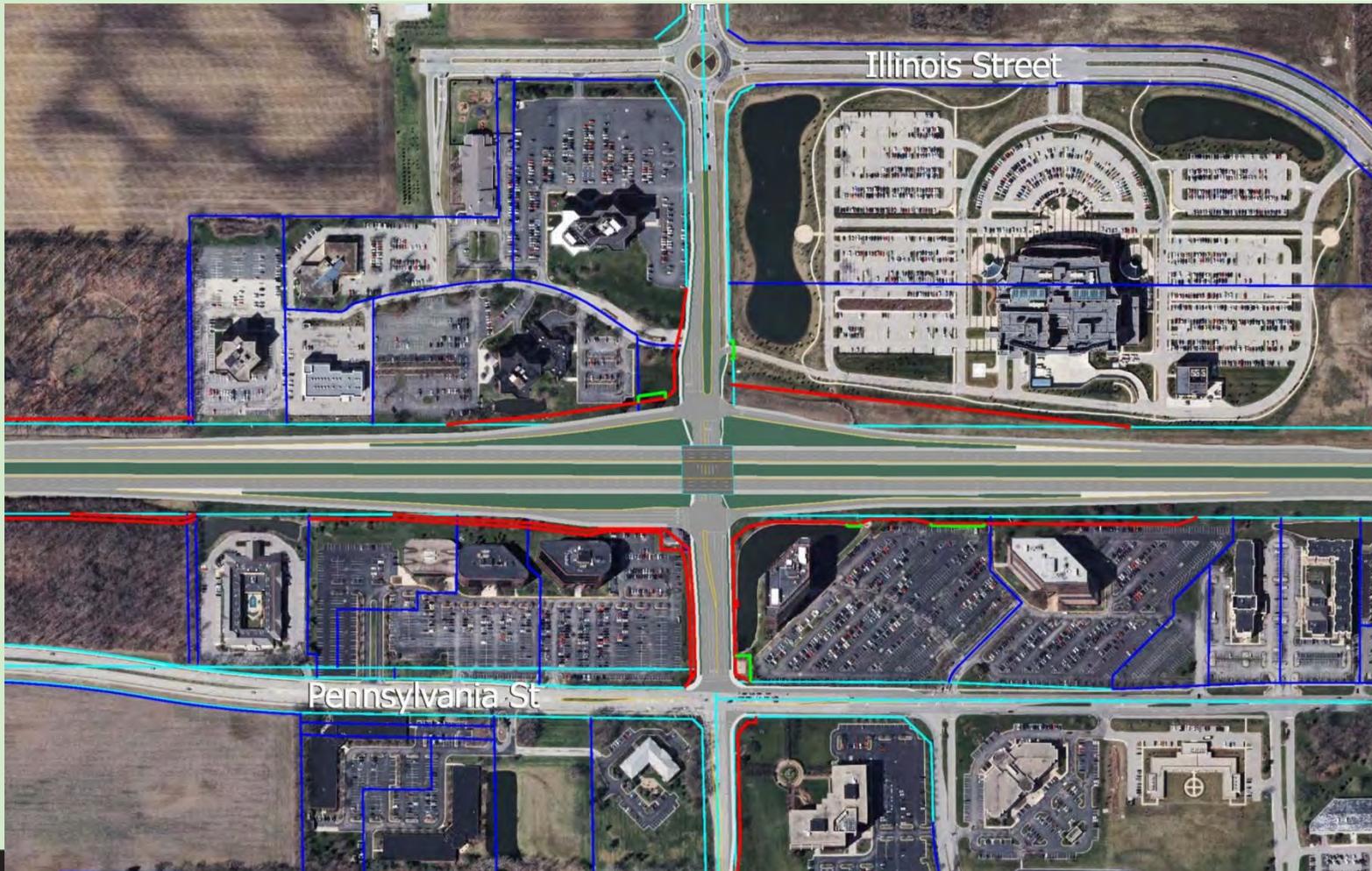


- Diamond interchange is currently in the plans
- Considering roundabout interchange to match local thoroughfare plan
- Planned Illinois Street extension and access road by the City of Carmel with a construction date of 2014
- 111th Street to remain open to traffic until construction complete
- Access to IU Hospital emergency entrance to remain open during construction

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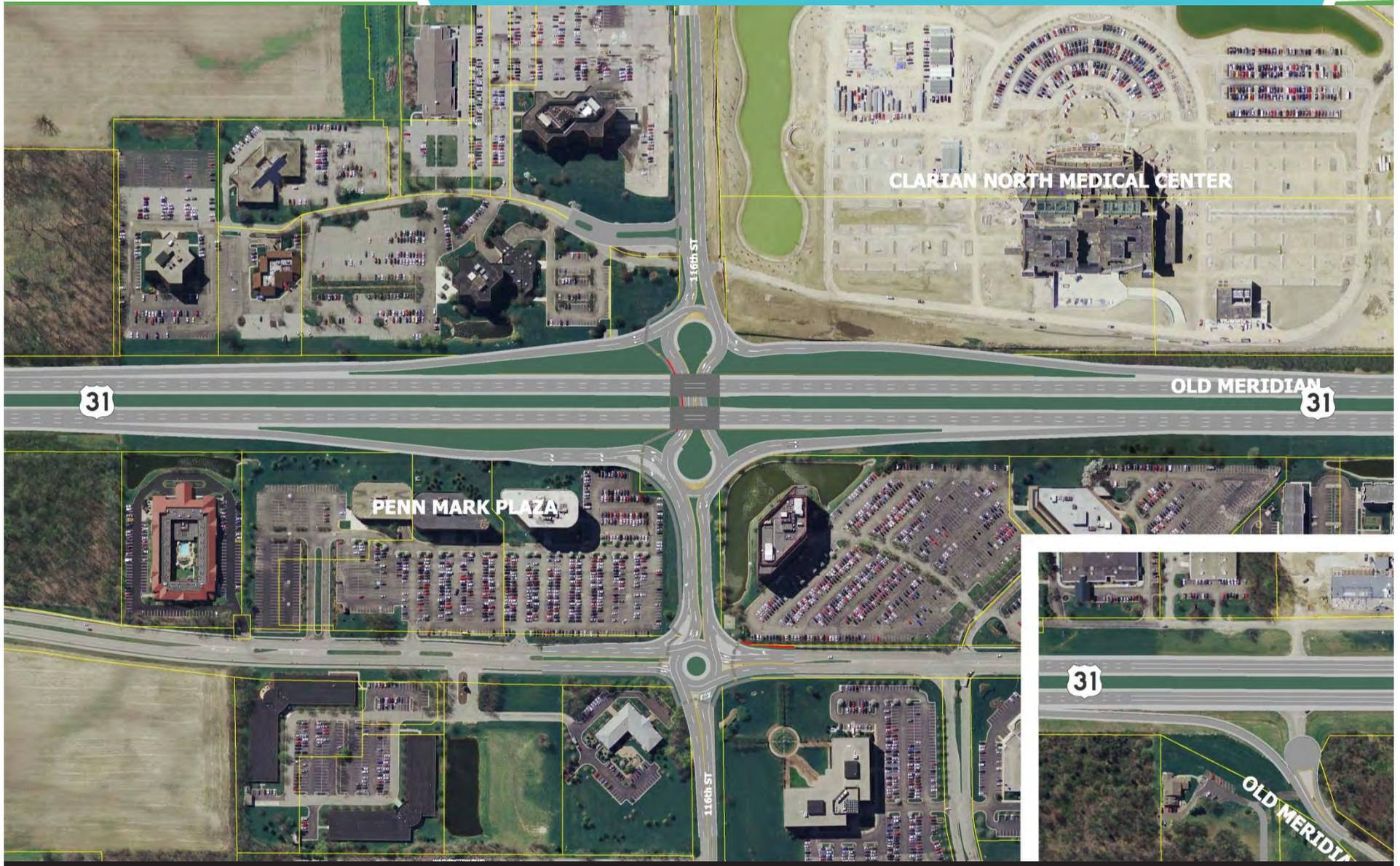
116th Street Interchange



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116th Street Interchange



126th St. Overpass & 131st St. Interchange



- 126th Street remains open during construction of the 131st interchange.
- Total closure of this section to speed construction.
- Includes conveyance of City of Carmel stormwater pipe.
- RAB construction at Pennsylvania Street
- New Commercial development being constructed at NE corner.

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126th St. Overpass & 131st St. Interchange



136th St. Interchange



- Access to St. Vincent's Hospital located on the south east corner must be maintained at all times.
- Wetlands in area on eastside preserved
- Series of RAB
- Northern limit of full closure of US 31
- Considering construction of 136th St / Rohrler Rd RAB in 2013; Old Meridian St/Smokey Row RAB in 2014

136th St. Interchange



151st St. Interchange

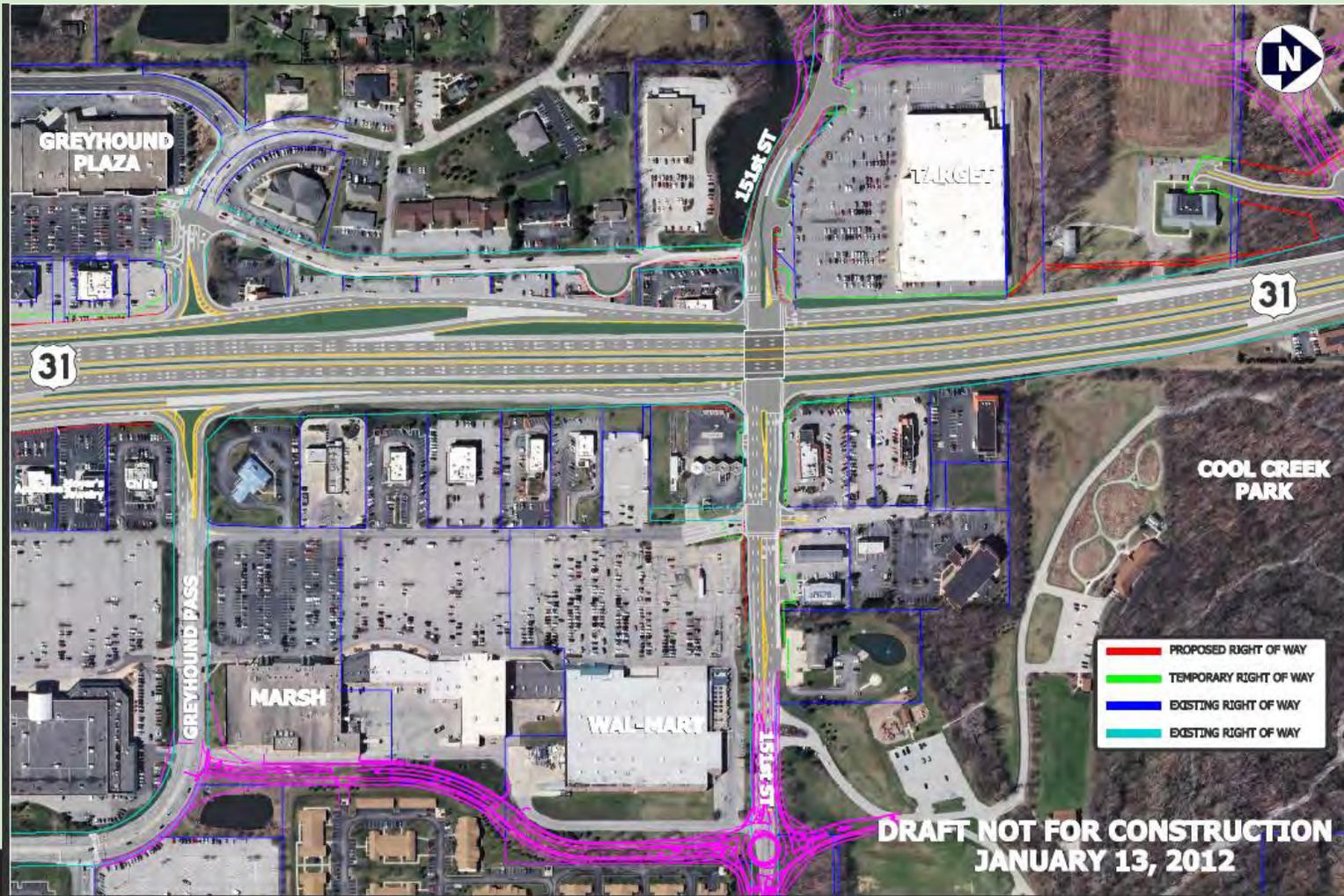


- Greyhound Pass section to the Monon Trail is currently under construction
- ROW is in condemnation; utilities being relocated
- Completion by end of 2013 will be required by the contract.
- Greyhound Pass stays open until 151st interchange is open

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151st St. Interchange



161st St. Interchange

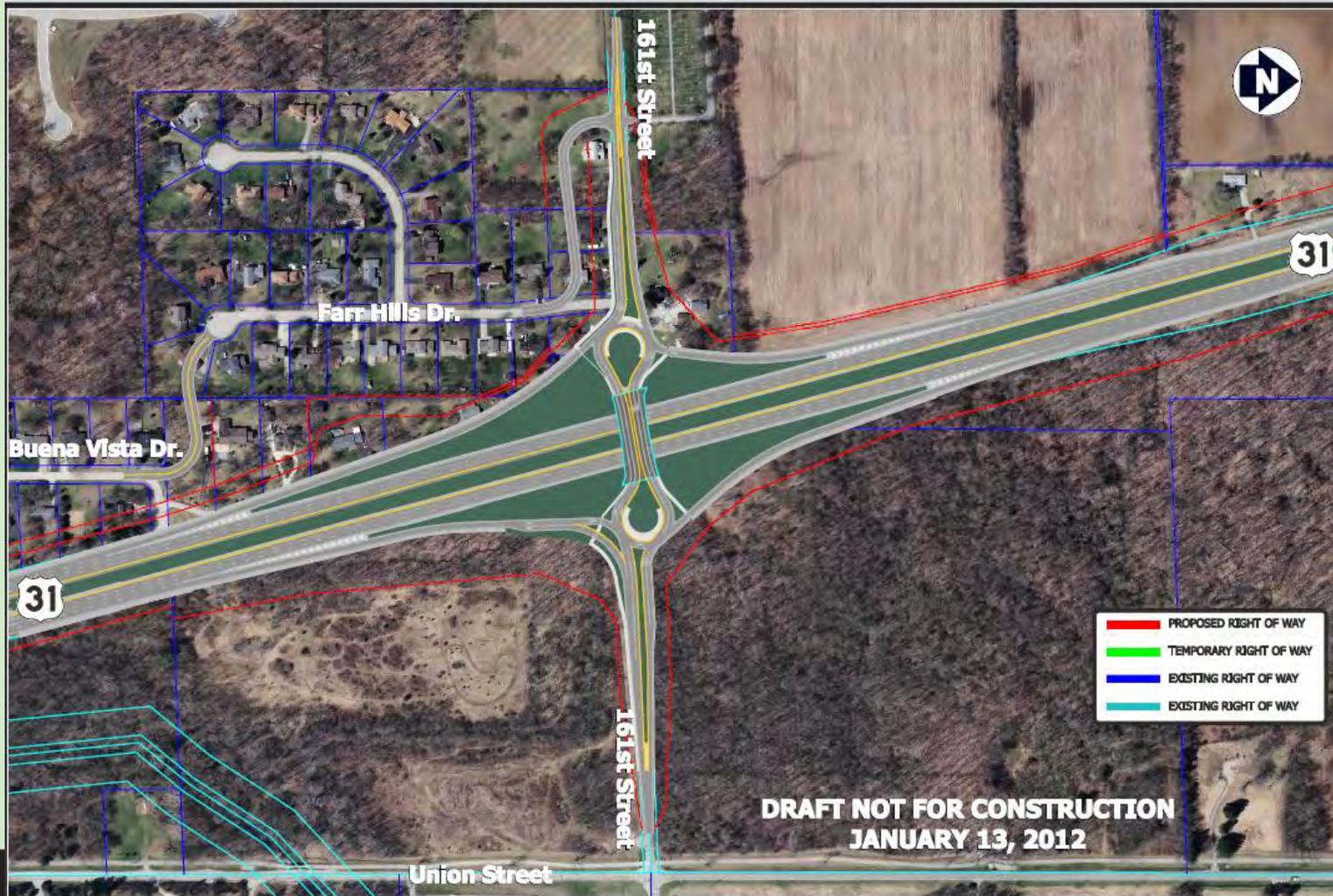


- Completion by end of 2013 will be required by the contract
- Coordination with adjacent projects by Hamilton County and the City of Westfield.
- Access to the cemetery will be required during construction of RAB.
- Buena Vista re-routed to Farr Hills Drive will be completed.

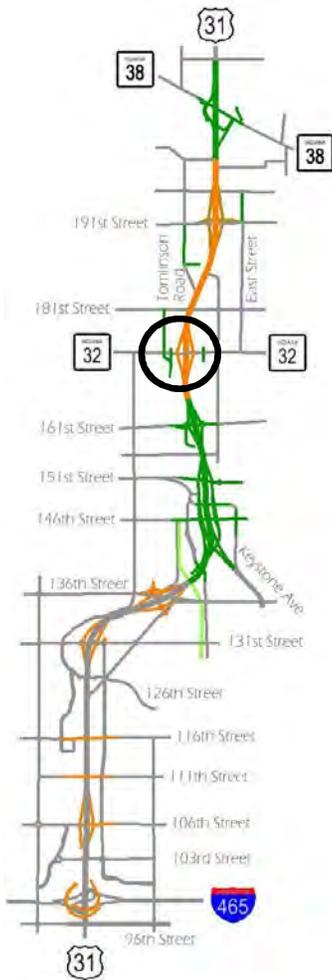
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161st St. Interchange



SR 32 Interchange Area

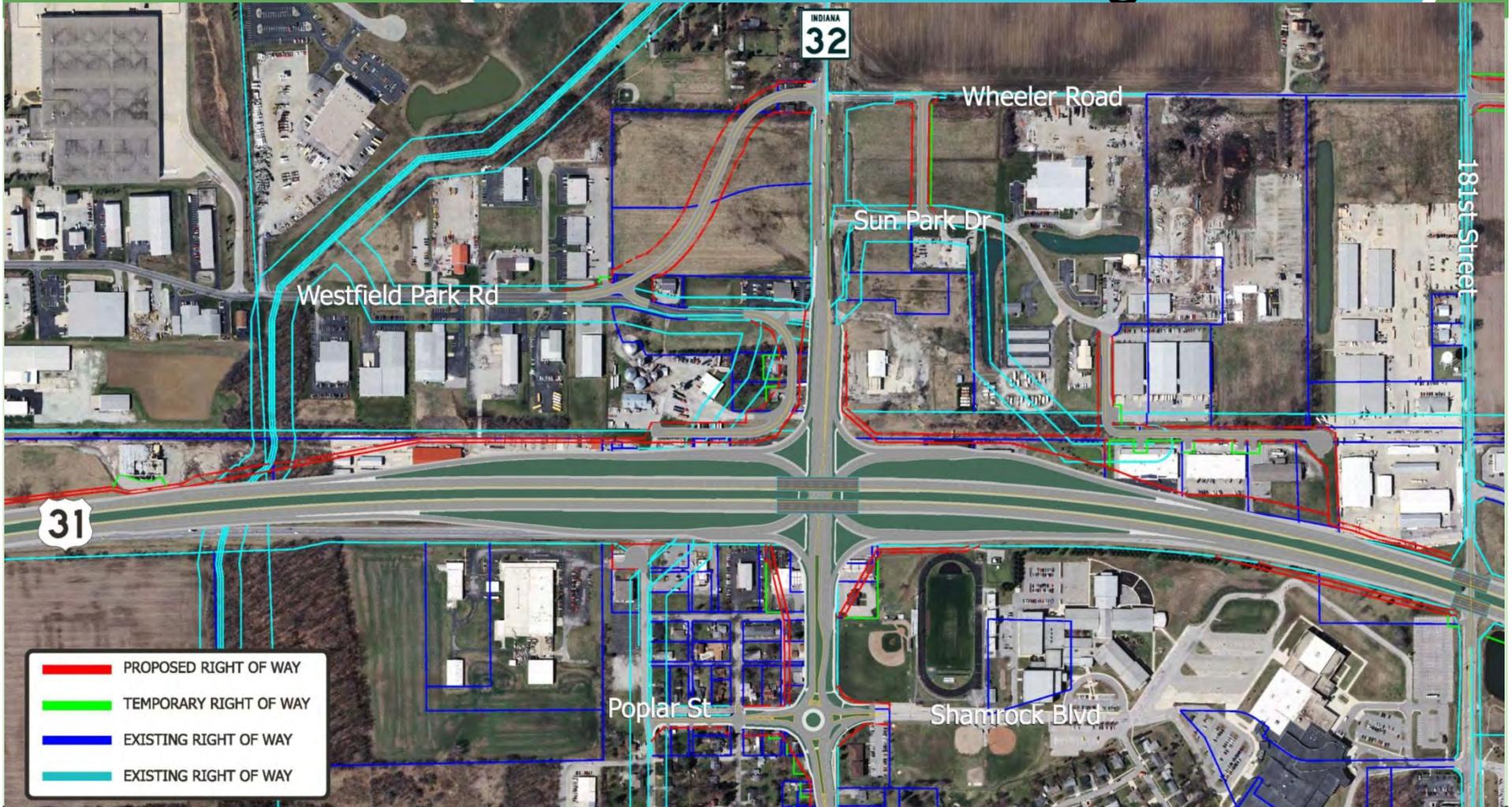


- Coordination with City of Westfield
- Major Gateway components being considered by City of Westfield.

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SR 32 Interchange Area



191st Street Interchange



- East Street Connection must be completed prior to the closing the 196th Street access
- Coordination with adjacent IMMI regarding closures at US 31 and 191st Street for truck delivery.

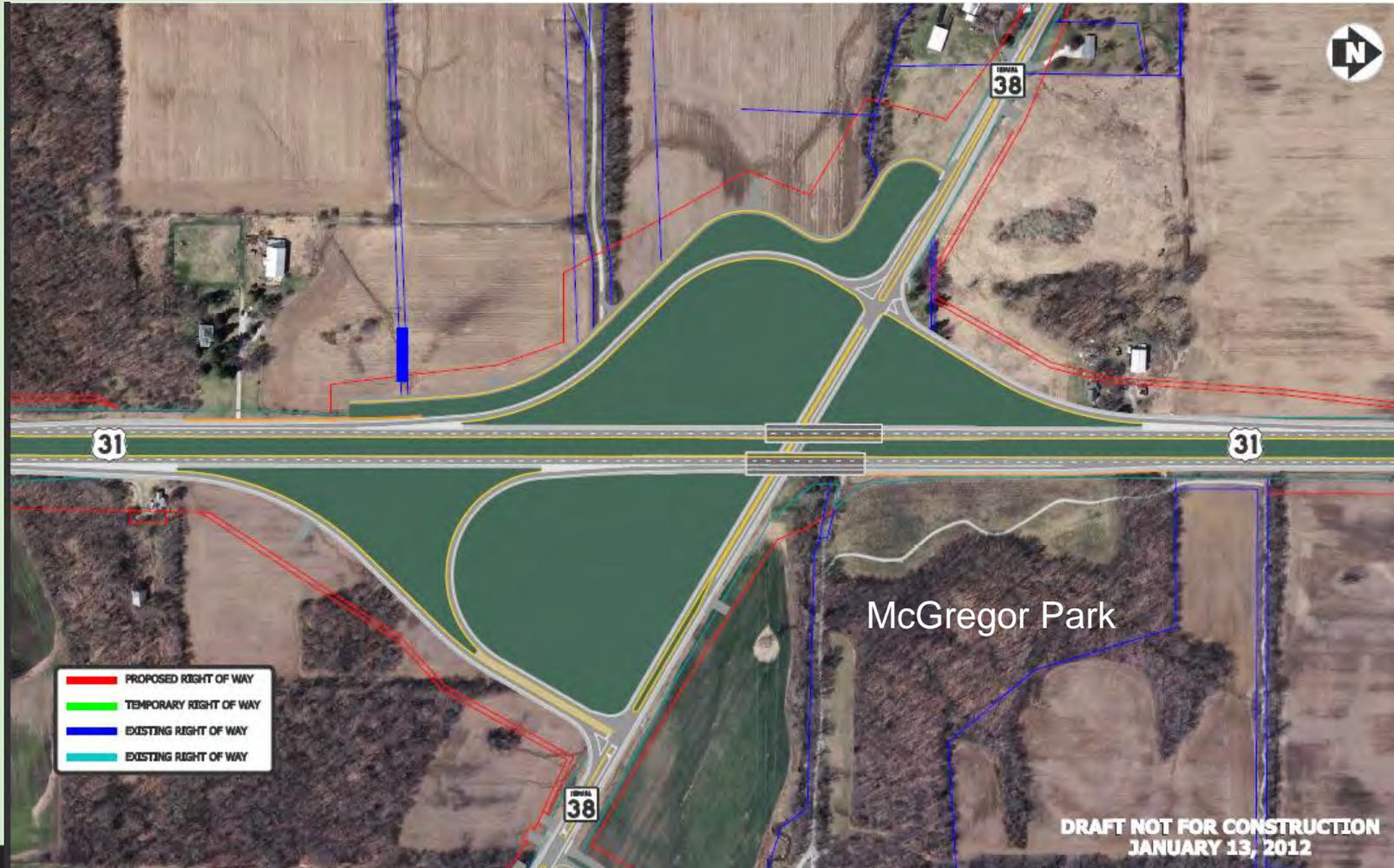
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191st St. Interchange



SR 38 Interchange



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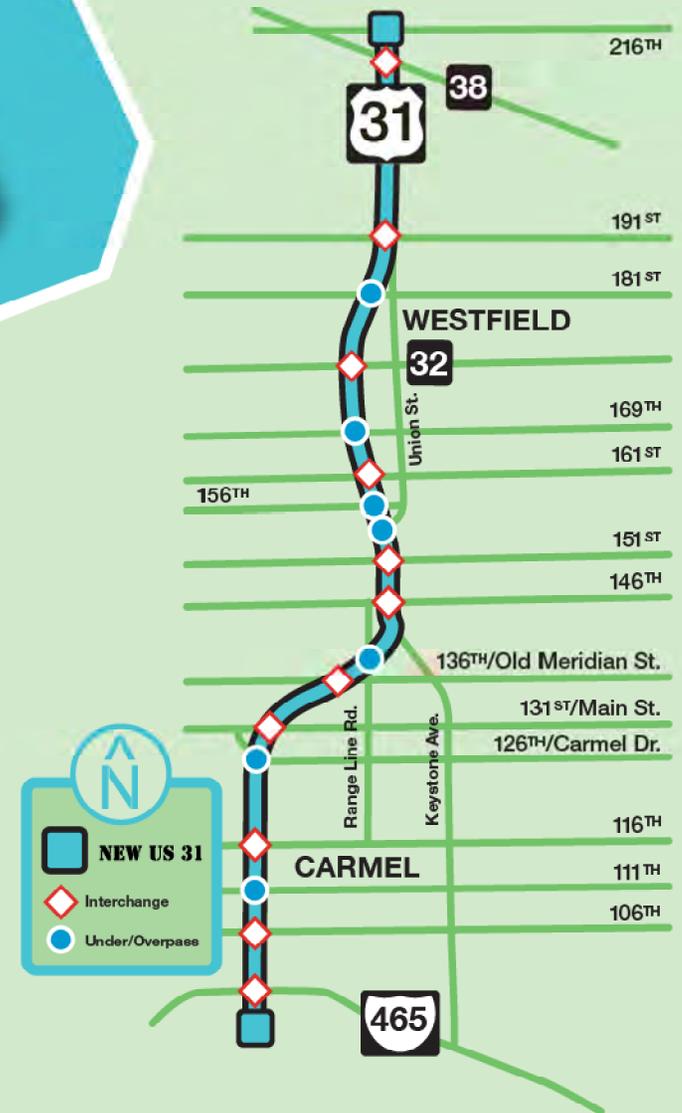
SR 38 Construction



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Context Sensitive Solutions Overview

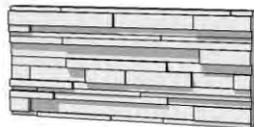
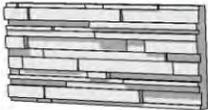


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Context Sensitive Design Elements

Example: MSE Wall Formliners



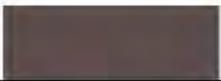
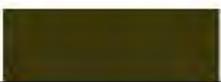
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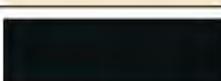
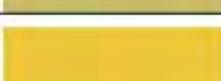
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Context Sensitive Solutions (CSS) – Hardscapes



Color Scheme for Structures

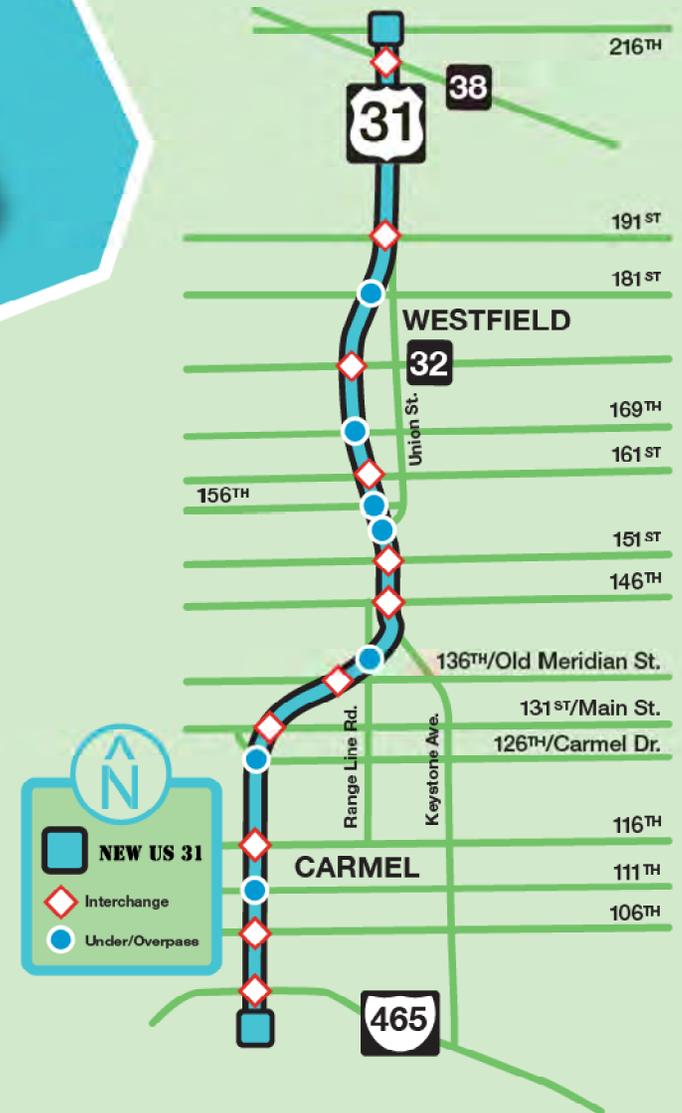
US31 Hamilton County Structure Colors		
ELEMENT	COLOR SWATCH	COLOR NO.
Coping, Railing and Piers		27722
Concrete Beam Color		26132
MSE Walls		26630
Steel Railing PF-1		14077
Accent Colors		
96 th through 156 th Streets		24098
161 st Street		Option 23275
		Option 22203

169 th Street		Option 27885
		Option 27038
SR32		20061
181 st Street		24552
191 st Street		23785
SR38		20152

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Construction Sequencing & Maintenance of Traffic



Duane McKinney

www.us31hamiltoncounty.in.gov

Past & Current Construction Sequencing



LEGEND

	Existing
	Under Construction
	Completed

Construction Sequencing



Additional Decision Factors

- Keystone Avenue used as through detour during US 31 work between I-465 and Monon Trail
 - Trucks allowed on Keystone Ave
- 151st/Greyhound Pass & 161st Segment – 2013
- I-465 through Monon Trail – Work to be completed under same construction seasons

Construction Sequencing

2013



SR32/191st
Offline &
Shoulder Impacts

151st/161st
Full Construction

I-465 to 136th
Minimal Work

2014



SR32/191st
Full Construction

151st/161st
Complete

I-465 to 136th
Offline & Shoulder
Impacts

2015



SR32/191st
Complete

I-465 to 136th
Full Construction



Construction Sequencing

2013



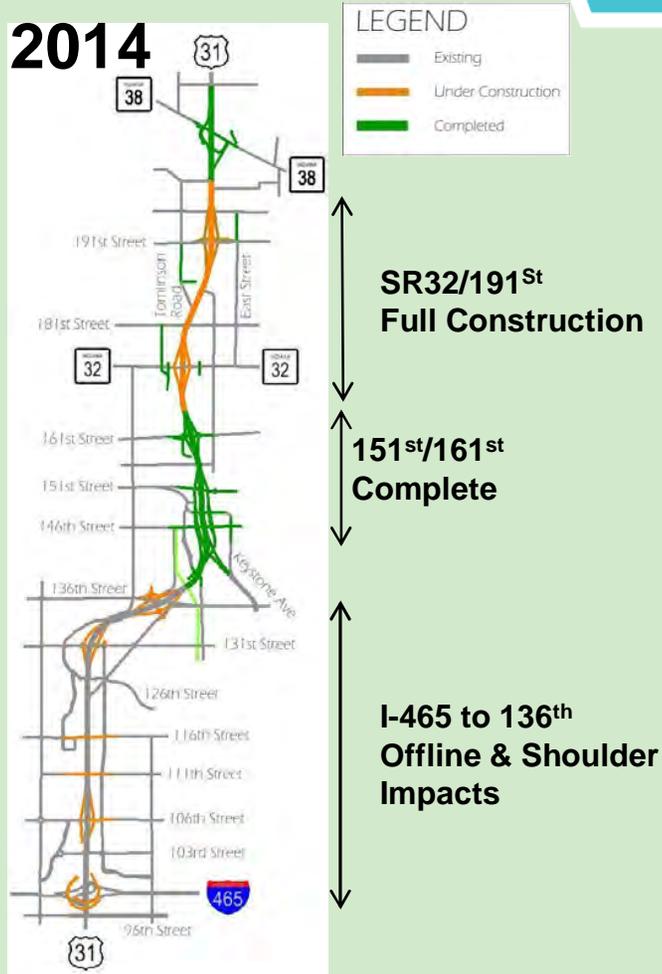
151st/Greyhound & 161st Interchanges & Mainline US 31

- US 31 Constructed under crossover traffic (two lanes each direction)
- 161st Closed during interchange construction - 169th Signal used as overflow
- Greyhound Pass or 151st Open

SR 32 and 191st St Interchanges – Offline Construction

- Offline Interchange work
- Minimal disruptions to US 31 Mainline
 - Shoulder Closures
 - Nighttime lane closures

Construction Sequencing



SR 32 & 191st Interchanges & Mainline US 31

- US 31 Constructed under crossover traffic
 - Two lanes each direction south of SR 32
 - One lane each direction north of SR 32
- Full access provided at SR 32
- Limited Access at 191st St
 - US 31 traffic will utilize the SB On-Off Ramp at 191
 - 196th St Intersection Temporary Signal (potentially)

I-465 to Monon Trail

- Offline Interchange work
- Outside shoulder and pavement from 106th to Old Meridian St.
- Minimal disruptions to US 31 Mainline
 - Shoulder Closures
 - Nighttime lane closures

Construction Sequencing



SR32/191st
Complete

I-465 to 136th
Full Construction

I-465 to Monon Trail

(I-465, 106th, 116th, 131st, & 136th)

- US 31 Constructed under a combination of split phase traffic, crossover traffic & full closure.
 - Split Phase Traffic from I-465 to Old Meridian
 - Two lanes each direction from I-465 to 116th St – Utilizing exit/entrance ramps at 106th and 116th.
 - One lane each direction from 116th to Old Meridian
 - Crossover Traffic from 136th to Keystone Ramps
 - One lane each direction
 - Full Closure of US 31 from Old Meridian to 136th St.

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Potential Full Closure of US 31 Between Old Meridian & 136th St

Full Closure of US 31 between Old Meridian & 136th

- Keystone Avenue – Official Detour
- Illinois/Pennsylvania/Old Meridian –Unofficial Local Detour

Traffic Requirements of Full Closure

- Access to 136th from the north at all times – 136th open to cross traffic at all times
- Access to Old Meridian slip from the south at all times
- Either 126th or 131st open to cross traffic at all times
- Temporary median opening at Old Meridian during closure to relieve congestion at Old Meridian/Penn roundabout.



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Full Closure of US 31 Summer/Fall 2015

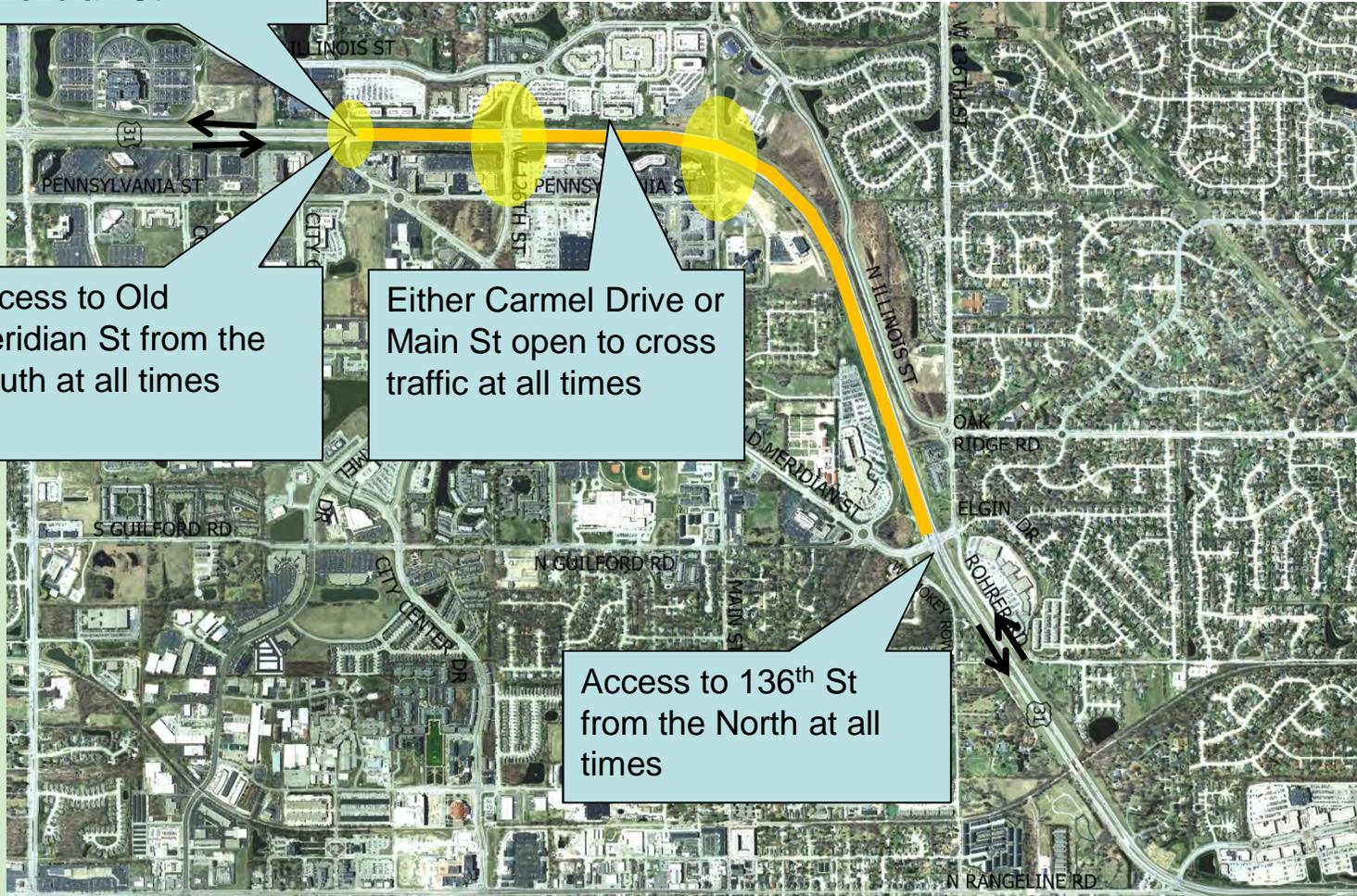
Between Old Meridian & 136th St

Temporary Median
Opening at Old
Meridian St

Access to Old
Meridian St from the
South at all times

Either Carmel Drive or
Main St open to cross
traffic at all times

Access to 136th St
from the North at all
times



Construction Sequencing & Maintenance of Traffic

Transportation Management Plan

- Collaboration with Local Municipalities, Schools, Hospitals, Emergency Responders, Businesses
- Coordination with adjacent projects – I-465 NE Corridor, City of Carmel, City of Westfield, Hamilton County, Indianapolis DPW
- Public Outreach

**Department approval required prior to changes to the
Construction Sequencing or Maintenance of Traffic Plan**

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Utility Relocation Plan



Steve Fleming

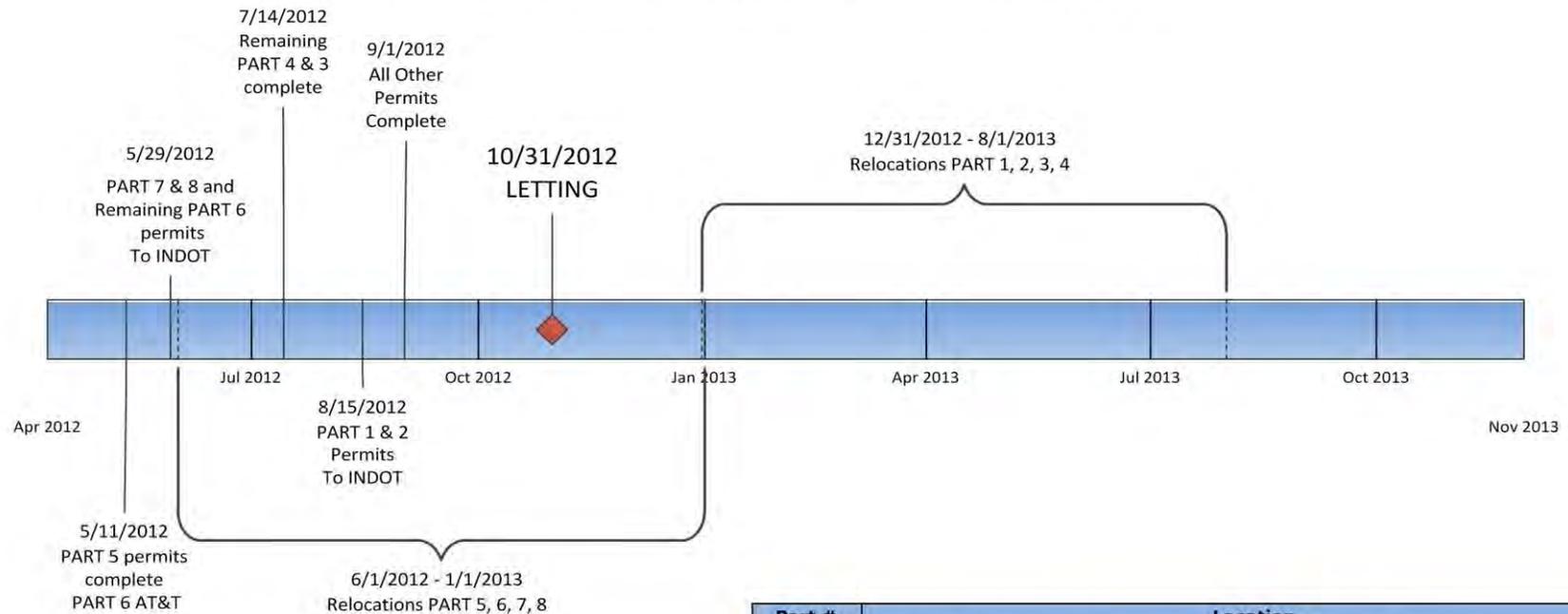
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100 North Senate, Room N955
Indianapolis, IN 46204
ph: 317.232.6601
US31HamiltonCounty.in.gov

US 31 Utility Relocation Schedule



Part #	Location
PART 1	I-465 & 106th St Interchanges & US 31 Mainline (263+00 to 335+00)
PART 2	116th St Interchange & Mainline US 31 (335+00 to 408+00)
PART 3	131st St Interchange & Mainline US 31 (408+00 to 475+00)
PART 4	136th St Interchange & US 31 Mainline (475+00 to 517+00)
PART 5	Greyhound Pass, 151st, Union, and mainline US31 N. of Greyhound Pass (585+00 to 640+00)
PART 6	161st St Interchange
PART 7	SR 32 Interchange & Mainline US 31 (640+00 to 775+00)
PART 8	Mainline US 31 (775+00 to 898+00)



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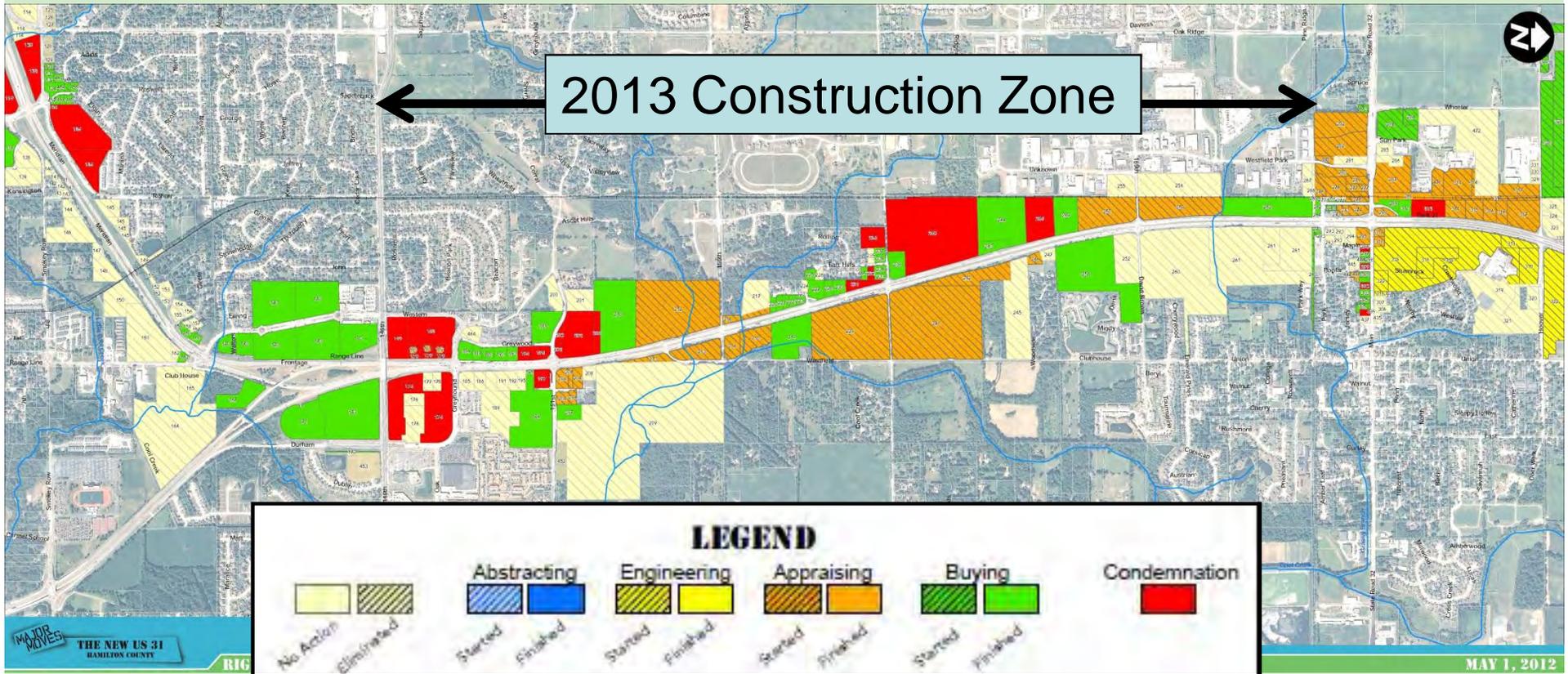
Project ROW Acquisition



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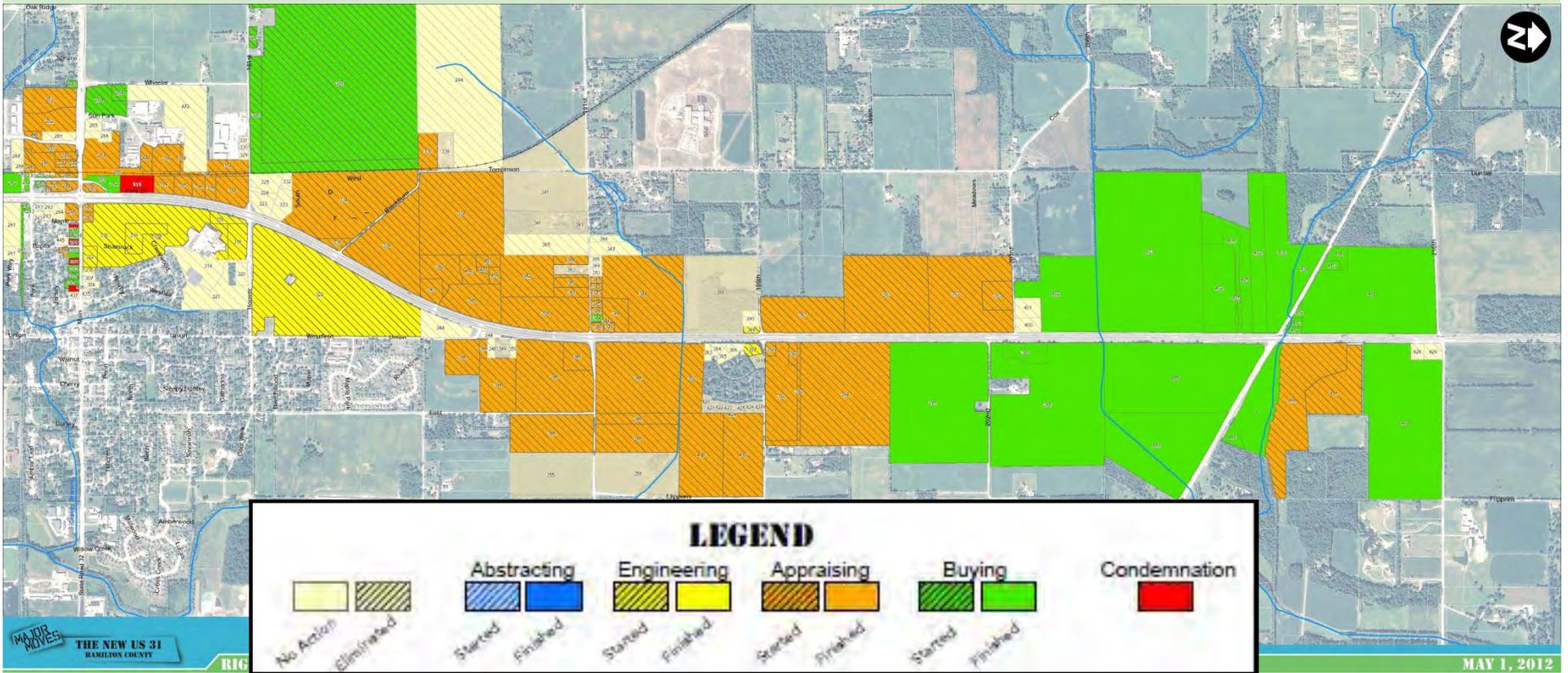
Land Acquisition Progress



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Land Acquisition Progress



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MAY 1, 2012



Next Steps / Information

- Preliminary Stage 3 Plans “For Information Only” will be distributed today.
- One-on-one meetings held this week.
- RWA preparing Stage 3 Plans for submission to INDOT in June. Plan updates will be provided to Proposers as they become available.
- Discussions regarding the procurement approach are ongoing within INDOT and with IFA.