



37<sup>th</sup> DBE Small Business Conference  
I-94 Modernization Project Update  
March 27, 2017



# I-94 Modernization Project

## Agenda



- Project Overview
- MDOT/City of Detroit Partnership
- Stakeholder Engagement
- SBE Training Program
- Next Steps
- Q&A

# I-94 Modernization Project

## Project Overview

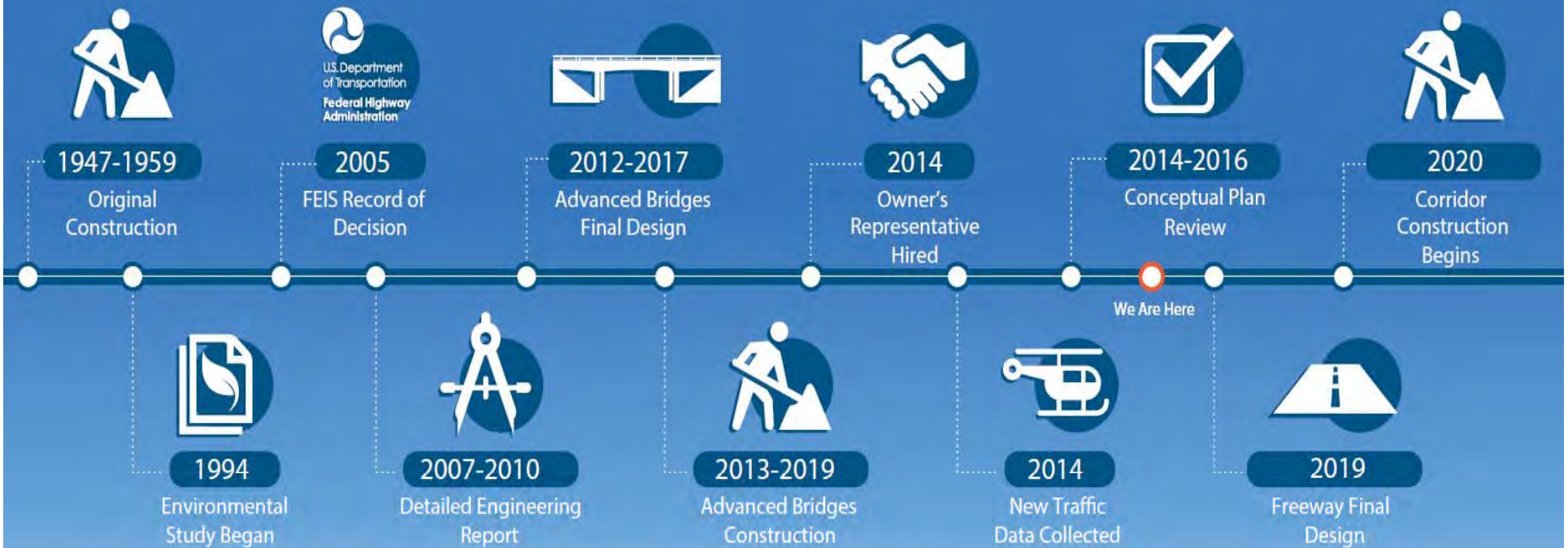


## I-94 MODERNIZATION PROJECT

- 6.7-mile freeway reconstruction from east of I-94/I-96 Interchange to east of Conner Ave
- 67 bridge structures, six railroad overpasses and 11 Advanced Bridges
- Local access improvements including the addition of continuous I-94 service drives
- Modernize interchange ramps including the elimination of freeway left-hand exits and entrances
- Project divided into three segments based on the geographic boundaries shown above

# I-94 Modernization Project

## Project Overview - Timeline



# I-94 Modernization Project

## Project Overview – Schedule

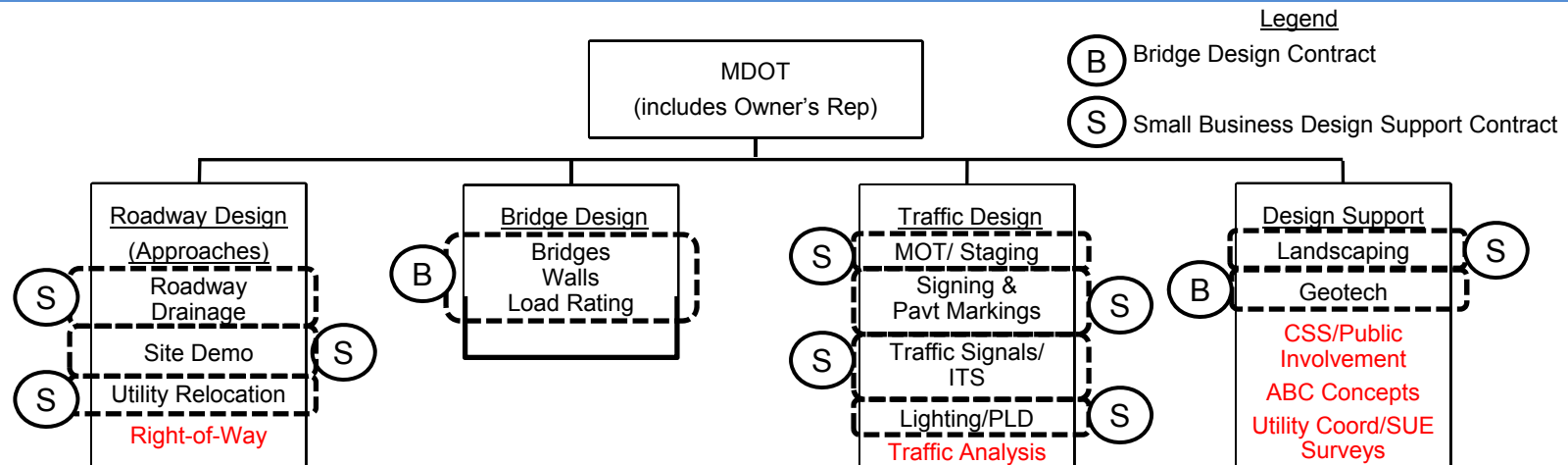


State Fiscal Year	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	
<b>Advanced Bridges</b>	Design				Design																							
					ROW																							
				CON				Construction																				
<b>Segment 3</b>									Design																			
								ROW																				
										CON		Construction																
<b>Segment 2</b>																	Design											
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<b>Segment 1</b>																					Design							
																						ROW						
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- Design
- Right-of-Way
- Construction

# I-94 Modernization Project

## Project Overview – Advanced Bridges Phase I Contracting



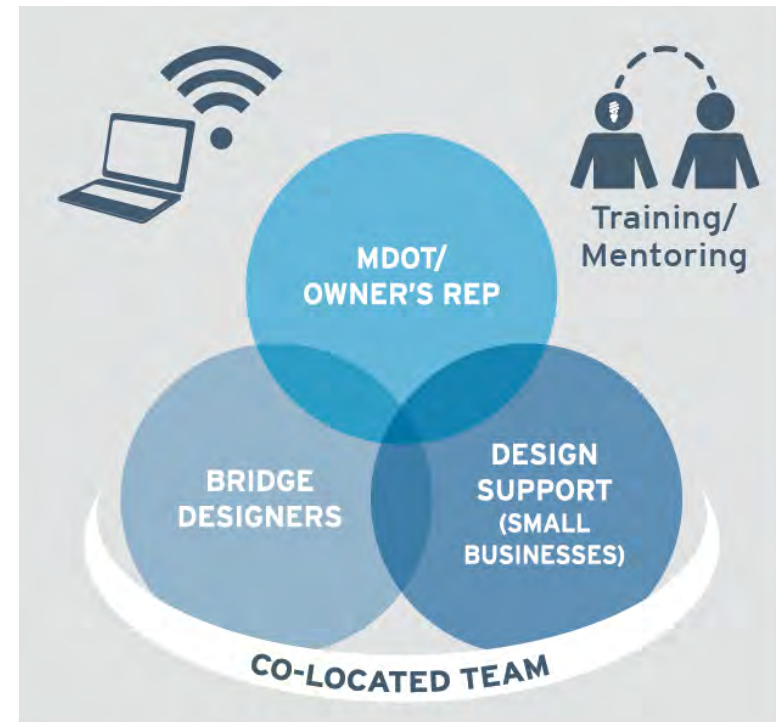
Prime Contracting Opportunities	Service Categories
Up to 8 Bridge Design (B) <u>With Geotech Subconsultant</u> TIER III	Short and Medium Span Bridges/ Complex Bridges (includes ABC PE)/ Bridge Load Rating Analysis  <u>Geotechnical Engineering Services</u>
Up to 10 Design Support (S) TIER I & TIER II	Road and Streets (Road approach)
	Maintaining Traffic Plans & Provisions/ Pavement Marking Plans
	Permanent Non-Freeway Traffic Signing Plans/ Permanent Freeway Traffic Signing Plans
	Traffic Signal Design/ITS – Design & System Manager
	Freeway Lighting (PLD relocation & Street lighting)
	Site Investigation (Site demo)
	Municipal Utilities (for public utility relocations)
Up to 18 Total	Landscaping Architecture

# I-94 Modernization Project

## Project Overview – Project Office



- Co-located Team
- Collaborative Environment
- Technology Equipped
- Coaching & Mentoring Environment



# I-94 Modernization Project

## Project Overview – Lessons Learned



- ❑ Secure City of Detroit concurrence and FHWA approval on the bridge cross-sections prior to final design notice-to-proceed.
- ❑ MDOT/ORC to develop accelerated bridge construction criteria to support final design activities for Advanced Bridges PII along with providing an updated sample plan set.
- ❑ Evaluate alternative contracting strategies to achieve small business participation goals since the current prime agreements have a hard cap of \$150,000.
- ❑ Further investigate ways to simplify and streamline MDOT/Final Designer contract coordination.
- ❑ Evaluate workload necessary to enable key Final Designer staff to work full-time in project office.



# I-94 Modernization Project

## MDOT/City of Detroit Partnership



# I-94 Modernization Project

## MDOT/City of Detroit Partnership



### I-94 Workshop Objectives:

Identify modifications to the current I-94 Conceptual Plan, which achieves the project's "purpose and need" of improving local connectivity:



- **Restore and improve multimodal street grid connections with the addition of "Service Street Connectors"**
- **Utilize existing streets to minimize impacts to adjacent neighborhoods**
- **Invest in city streets and adjacent transportation infrastructure**
- **I-94 Gateway to Detroit and surrounding neighborhoods from neighborhood and freeway viewpoint**

# I-94 Modernization Project

## MDOT/City of Detroit Partnership



### I-94 Workshop Outcomes:

**Align with Detroit residents desires and expectations captured during July 2015 stakeholder Public Open House:**

- **Proposed community connector bridges – 2<sup>nd</sup> Avenue, Cass Avenue, John R Street and Conner Street**
- **Provide quality green spaces, parks and landscaping**
- **Improve cross corridor connectivity and provide safer bike/pedestrian facilities (buffered)**
- **Address concerns about potential neighborhood and historic site impacts**

# I-94 Modernization Project

## MDOT/City of Detroit Partnership



Second Avenue Over I-94 Existing

Second Avenue Over I-94 Proposed - Artist's Rendering

# I-94 Modernization Project

## MDOT/City of Detroit Partnership



Second Avenue Over I-94 Existing

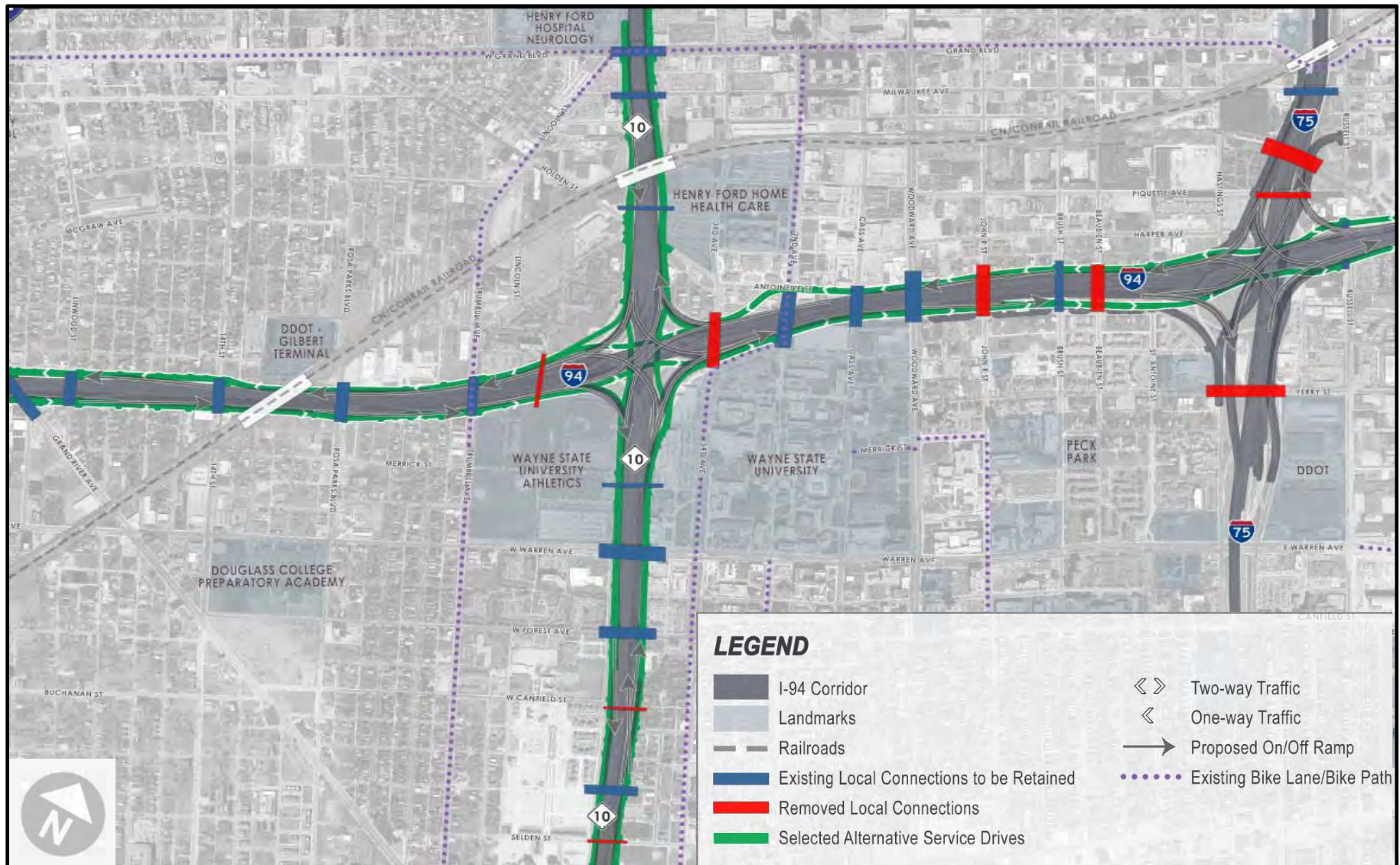
Second Avenue Over I-94 Proposed - Artist's Rendering

# I-94 Modernization Project

## MDOT/City of Detroit Partnership



### The Approved Selected Alternative – Midtown Area

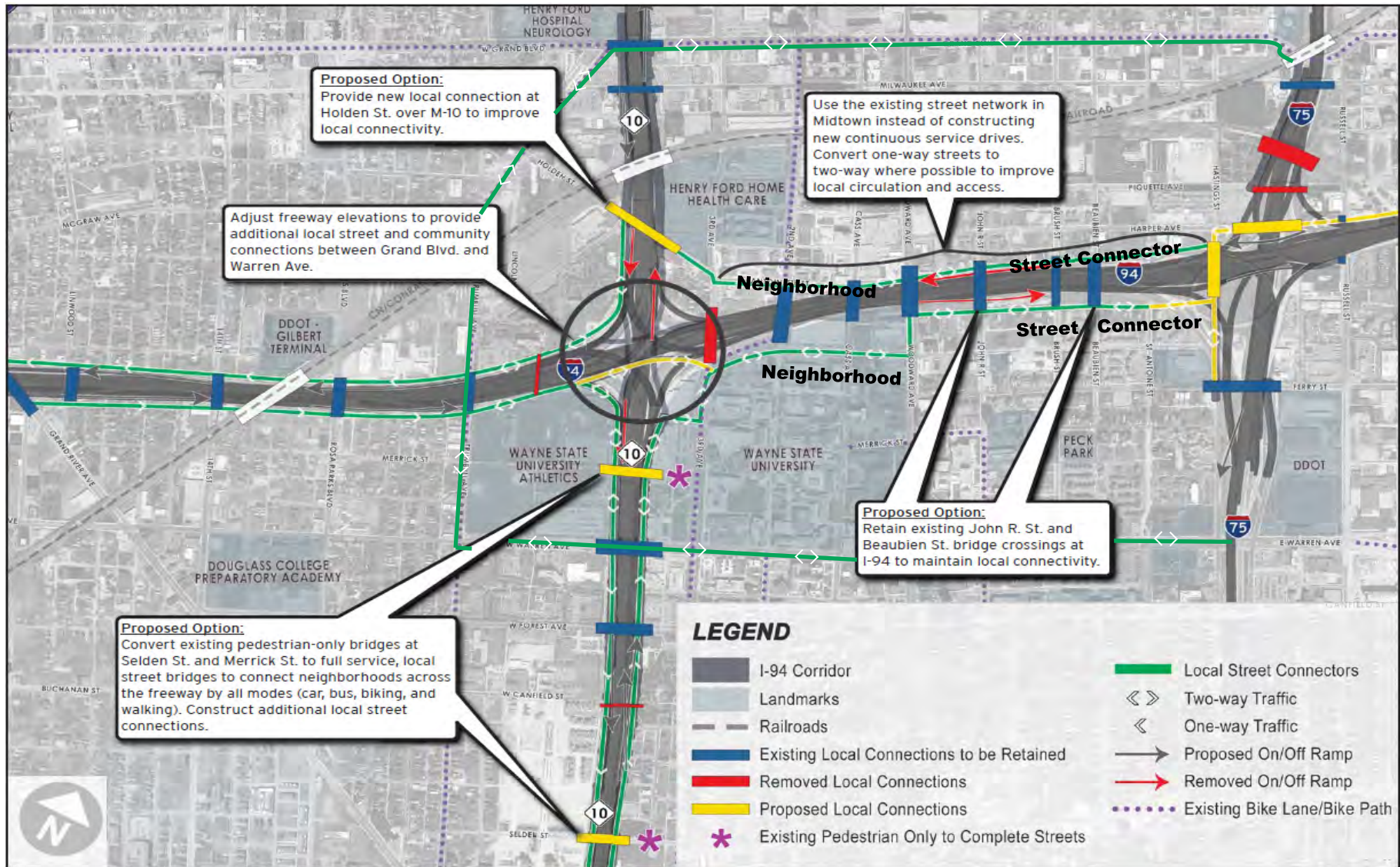


# I-94 Modernization Project

## MDOT/City of Detroit Partnership



### Proposed Modifications Under Consideration – Midtown Area



# I-94 Modernization Project

## FHWA Determination



**MDOT can continue to advance the I-94 project as long as the proposed work is consistent with the current approved Selected Alternative and can also accommodate the modifications being considered.**

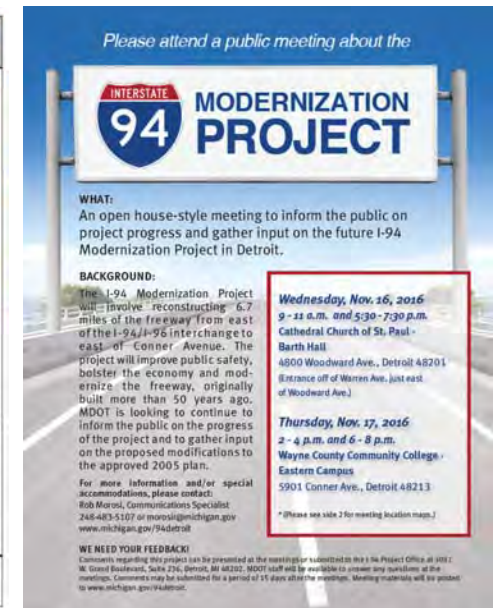
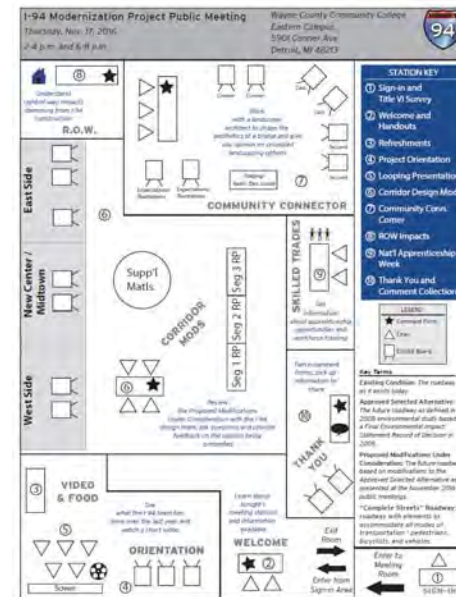


# I-94 Modernization Project Stakeholder Engagement



## November 2016 Public Meetings

- Four meetings in two days
- Notification Process
  - Press Release
  - Flyers, Postcards and Newsletters
- Shared the proposed modifications under consideration
- Gathered public comment from 200+ attendees which included 350+ comments:
  - Maintain existing bridge connections
  - Add Landscaping to bridges
  - Convert pedestrian bridges to complete streets where practical
  - Review access into Midtown



[www.Michigan.gov/94detroit](http://www.Michigan.gov/94detroit)

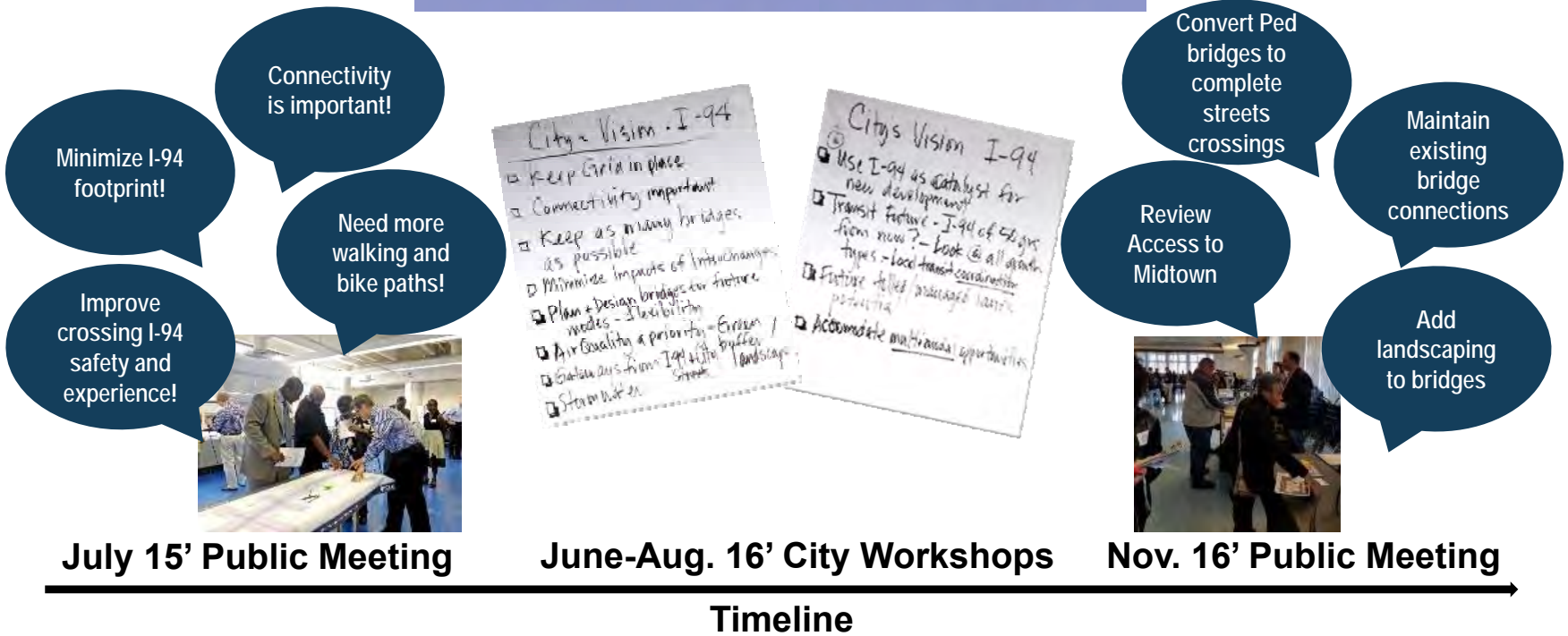


# I-94 Modernization Project

## Stakeholder Engagement



Listen → Design → Build



# I-94 Modernization Project

## Stakeholder Engagement



# Success!



LOCAL CONNECTIVITY	BEAUTY	MOBILITY	SAFETY
<p>55 possible connections planned today as opposed to 39 connections in 2005</p>	<p>Landscape buffer along and on community corridors</p>	<p>7 Possible pedestrian bridges to become complete streets</p>	<p>Additional buffered bike lanes</p>

- Love the redesign
- Thank you for listening! A huge improvement!
- Thank you for proposing the community connections
- Build baby build!!!**
- All improvements great for the future of the City
- Like the modifications to the old plans
- Impressed with the project changes
- Love the Community Connector Bridge Concepts

## Recent Stakeholder Feedback

# I-94 Modernization Project

## SBE Training Program



- **Small Business Assessment**

- Core Skills
- Business Skills
- MDOT Technical Skills

- **Personalized Training Plan**

- Senior Leadership Training
- Business Development (4 Modules)
- Technical Training (6 Modules)
- Technology (software training)

- **MDOT Program Evaluations**

- Interim
- Final (at Plan Turn-In)



# I-94 Modernization Project SBE Training Program - Schedule



- Technical, software and business development training
- Training schedule/project schedule aligned
- “Just-in-Time” training
- Bi-weekly SBE Roundtables
- Monthly over-the-shoulder reviews
- Quality Audits
- Interim/final evaluations at 75% design level and final evaluations at Plan turn-in

## I-94 ADVANCED BRIDGES SMALL BUSINESS (SBE) TRAINING PROGRAM

FEBRUARY 2016

### Training Goals

The I-94 Advanced Bridges Small Business Enterprise (SBE) Training Program is designed to provide up to eight certified SBEs with design experience working in a collaborative project office environment to support future MDOT Service Prequalification in specific design service prequalification categories. Goals of the program include:

- Small Businesses meet or exceed 20% participation on the Advanced Bridges design.
- Increase the number of MDOT prequalified SBE consultants through the delivery of the I-94 Advanced Bridges Program.
- Increase the technical capacity of SBEs through project delivery experience gained in a mentoring environment.
- Enhance the business acumen of SBE owners through senior leadership training which focuses on project delivery, strategic planning, sales/marketing, business/operations and human resource management.

### Training Schedule

The I-94 Advanced Bridges SBE Training Program will be implemented over a 12-month design schedule, with the majority of the work performed within a dedicated project office. The schedule below outlines the critical training program activities to be led by MDOT and their Owner's Representative Consultant over the life of the Advanced Bridges design phase.

### Key Training Elements



Project Office	2015	2016
Temp. office (MI 75 Detroit/MDOT DDC)		
Perm. office (Detroit One Center)		
<b>Small Business Development Training</b>		
Develop training program materials		
SBE assessment/scope verification		
Development personal training program		
MDOT selection		
SBE contract authorization		
Train-the-Trainer Workshop		
<b>SMALL BUSINESS SENIOR LEADERSHIP TRAINING</b>		
Module I: Business Operations		
Module II: Marketing & Sales		
Module III: Business & Financial Mgmt		
Module IV: Human Resources Mgmt		
<b>SMALL BUSINESS TECHNICAL TRAINING</b>		
Module V: Core Skills		
ProjectWise, Blue Beam/Adobe Markup		
Microstation		
Geopak		
Module VI: MDOT 3046/Work Training		
Module VII: Plan Development & Packaging		
Module VIII: Specifications & Estimates		
Module IX: B-Proposals		
Module X: Design Assistance during Constr.		
<b>PROGRAM EVALUATIONS</b>		
INTERIM EVALUATIONS		
Monthly over-the-shoulder submittals		
Monthly Senior Leadership Meetings		
Bi-weekly plan submittals		
QC plan submittals		
<b>FINAL EVALUATION</b>		

## I-94 ADVANCED BRIDGES SMALL BUSINESS (SBE) TRAINING PROGRAM FOR CONSTRUCTION

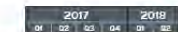
### Training Goals

The Initial I-94 Advanced Bridges Small Business Enterprise (SBE) Training Program is designed to provide up to four (4) certified SBEs with Construction Engineering, Inspection and Material Testing experience working collaboratively on the project site and project office to support future MDOT Service Prequalification in specific construction service prequalification categories. Goals of the program include:

- Small Businesses meet or exceed 20% participation on the Advanced Bridges construction.
- Increase the number of MDOT prequalified SBE consultants through the delivery of the I-94 Advanced Bridges Program.
- Increase the technical capacity of SBEs through project delivery experience gained in a mentoring environment.
- Enhance the business acumen of SBE owners through senior leadership training which focuses on project delivery, strategic planning, sales/marketing, business/operations and human resource management.

### Training Schedule

The I-94 Advanced Bridges SBE Training program will be implemented over several construction phases and may begin as early as construction on Trumbull Bridge. SBE training will be performed within a dedicated project office. The schedule below outlines the critical training program activities to be led by MDOT and their Owner's Representative Consultant over the life of the Advanced Bridges construction phases.



Project Office	2017	2018
Perm. office (Detroit One Center)		
<b>Small Business Development Training</b>		
Develop training program materials		
SBE assessment/scope verification		
Development personal training program		
MDOT selection		
SBE contract authorization		
Train-the-Trainer Workshop		
<b>SMALL BUSINESS SENIOR LEADERSHIP TRAINING</b>		
Module I: Business Operations		
Module II: Marketing & Sales		
Module III: Business & Financial Mgmt		
Module IV: Human Resources Mgmt		
<b>SMALL BUSINESS TECHNICAL TRAINING</b>		
Module V: Software		
ProjectWise, Blue Beam/Adobe Markup		
Field Book, Field Manager, AASHTOWare		
Module VI: Log and Tech Assistance		
Module VII: Surveying Basics		
Module VIII: Inspector Daily Reports		
Module IX: On-Site Equipment & Safety		
Module X: MDOT Technical Training Courses		
<b>PROGRAM EVALUATIONS</b>		
INTERIM EVALUATIONS		
Daily coaching & technical support		
Periodic review of daily reports		
Weekly site visits & review		
Regular trainee feedback		
Quarterly senior leadership meetings		
<b>FINAL EVALUATION</b>		

### Key Training Elements

A tailored training and mentoring program will be developed for each SBE participant with the content of the training program to be based on an assessment of each SBE's needs identification and measurable performance goals. Training will focus on two categories: Senior Leadership Training and Technical Training. Training will be provided both in formal group sessions applicable to all SBEs and in informal one-on-one mentoring sessions where the training is personalized to the needs of a specific SBE.

- **Senior Leadership Training**  
One-on-one training sessions will be conducted monthly with each SBE owner to enhance their business skills. Additionally, at these training sessions MDOT will provide real-time feedback on SBE project performance by sharing the results of interim evaluations with SBE owners.
- **Technical Training**  
Technical training will include conducting core skills training first to enhance SBE technical staff experience utilizing MDOT required equipment and software needed to successfully complete their construction responsibilities. Software training may include ProjectWise and Adobe/Blue Beam for document control, Primavera (Microsoft) projects for scheduling and Field Manager or AASHTOWare for field documentation.

# I-94 Modernization Project

## SBE Training Program - Achievements



- Over 12 Small Business training workshops conducted
- Up to 4 hours of professional development hours earned for each Small Business training workshop
- Software training on Microstation, BlueBeam/Adobe Markup, Geopak
- Conducted Senior Leadership Meetings with SBE owners
- Over 16 Small Business Roundtables
- SBE Audits and Evaluations
- Over 11 SBE Over-the-Shoulder Reviews
- Unlimited Mentor/Mentee engagement opportunities
- 5 SBE firms worked toward MDOT prequalification
- 2 New SBE Service Providers for MDOT
- Exceeded SBE Project Goal of 20%
- MDOT exceeded their statewide DBE goal



# I-94 Modernization Project

## SBE Training Program - Achievements



- 3 new SBE offices opened
- 4 SBE firms hired one or more employees
- Value Engineering serves as mentor for an LTU capstone course
- SBE partnerships on MDOT and other agency pursuits
- Onyx featured during USDOT Women History Month as a “Women Impacting the Nation in Transportation”
- SBEs featured at MDOT DBE Conference and other local and national conferences
- Value Engineering received first MDOT prequal - Design-Traffic Pavement Marking!



# I-94 Modernization Project

## SBE Training Program – Onyx Enterprise



**Tarolyn Buckles**  
*President of Onyx Enterprise*

- I-94 Small Business
- HNTB Partner Participant
- President of NACME
- Hired two new employees
- Opened three new offices
- Participated in Major Duggan's summer internship program
- Featured during USDOT Women History Month as a "Women Impacting the Nation in Transportation"
- Featured by DPTV for the STEM Heroes video project





# I-94 Modernization Project

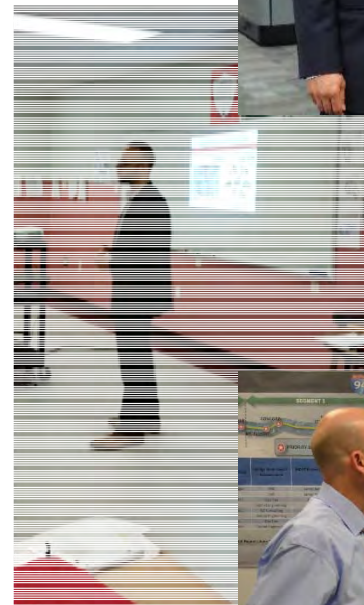
## SBE Training Program – Value Engineering



**Jon Kolbasa, PE**

*President of Value Engineering*

- I-94 Small Business
- Awarded 2 MDOT Prequals
- Serves as Mentor for LTU Capstone Course
- Owner/Operator of Hip Homes
- Participated in outreach to students at DEPSA Prep School in Detroit
- Added two new employees



**ValueEngineering**

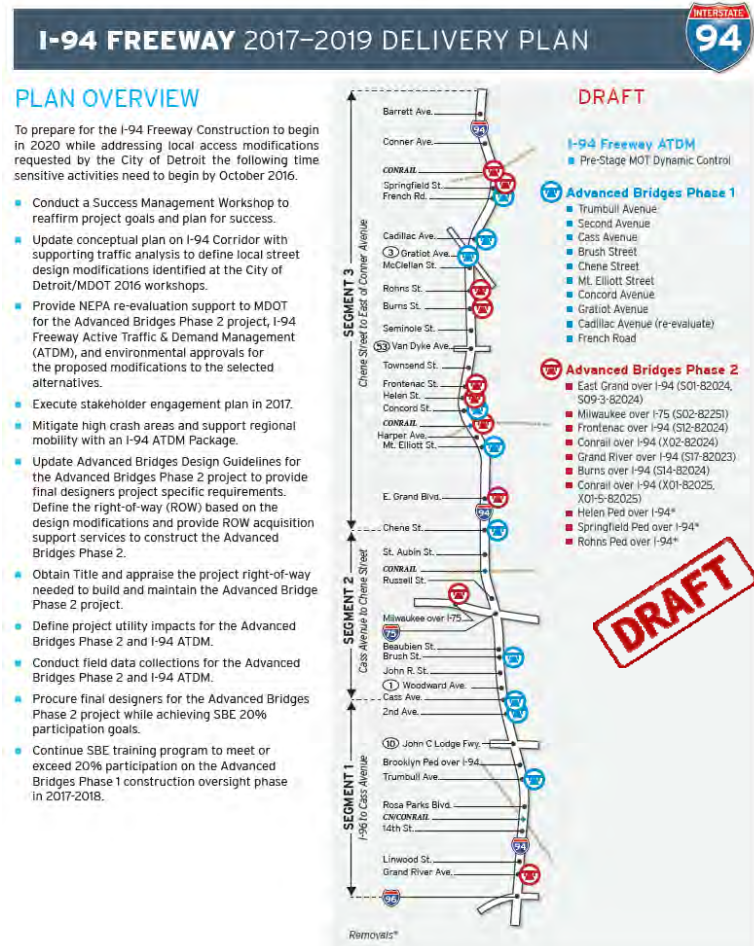
Value Clients | Value Projects | Value Budget

# I-94 Modernization Project

## Next Steps



- Continue to discuss the proposed modifications under consideration with key stakeholders
- Conduct public design charrettes to finalize the aesthetic elements of the Community Connector Bridges
- Complete NEPA re-evaluation process for the Advanced Bridges Phase
- More public meetings
- Continue development of small business training program for Advance Bridges Program Phase II (Design)
- SBE Training Program for CEI Phase I
- Complete additional environmental clearance work related to project modifications being considered



# Questions?



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