

Joint DOT/FHWA Major Project Webinar

November 10, 2015

Sponsored by the FHWA Major Project Discipline



Agenda

- 1. Major Project Spotlight
 - Planning and Environmental Lessons Learned on I-5 North Coast Project
 - Caltrans
 - R-10 Project Management Strategies for Complex Projects & Project Management Plans
 - Michigan DOT
 - I-595 Express Corridor Improvements Project
 - Florida DOT
- 2. Build America Transportation Investment Center (BATIC)
- 3. Comments/Questions



Major Project Spotlight: DOT/FHWA Peer Exchange

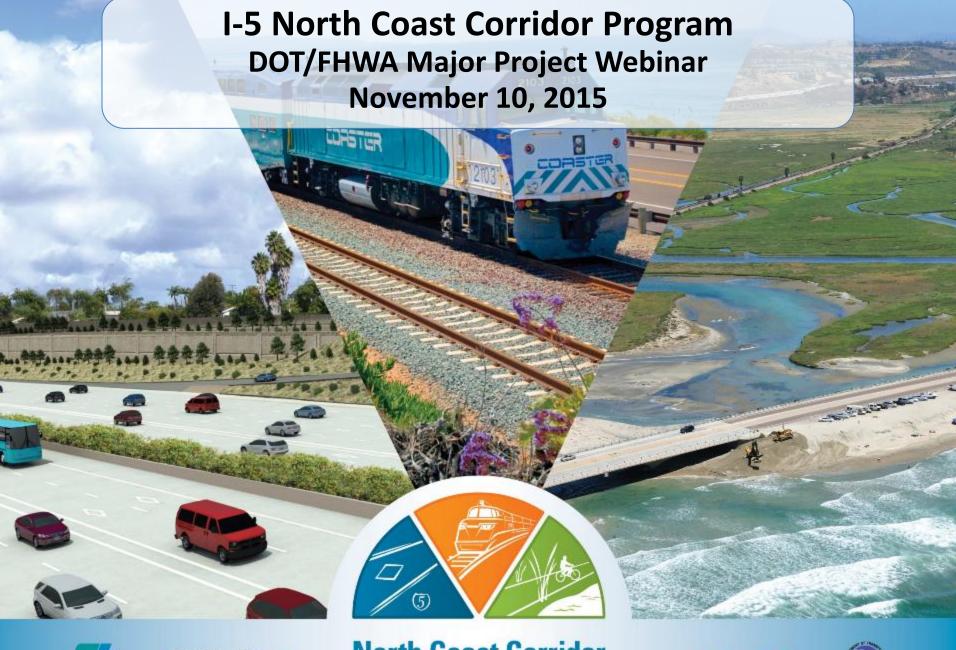
Peer Exchange Featuring:

Caltrans Michigan DOT Florida DOT



Planning and Environmental Lessons Learned on I-5 North Coast Project

Clint Peace Arturo Jacobs Caltrans













I-5 North Coat Corridor

• 27 miles

- \$6B 30 year project
 - Four Express Lanes on I-5
 - Completing LOSSAN Double track
 - Improve Coastal Access
 - Coastal Habitat Improvements
- Coastal Commission approval August 2014











North Coast Corridor Existing Condition

- Limited rail capacity and modal choice
- Low density and widely spread job centers
- Increasing population
- Heavy congestion limits coastal access, increases emissions and reduces quality of life











Existing Condition - Batiquitos Lagoon

- Degrading coastal resources
- Restricted tidal flushing
- Development demand for open space
- I-5 & LOSSAN corridors act as a barrier to east-west bike/ped movement







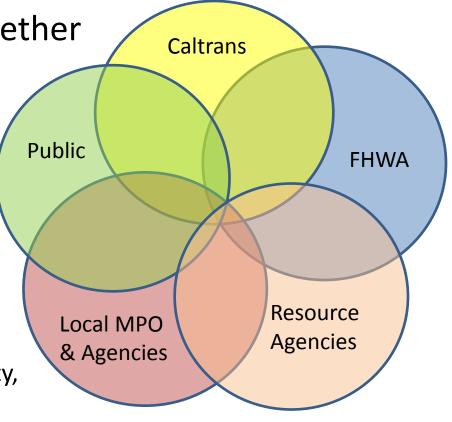




Multi-Agency Collaboration

Recognize need to work together

- Presidential Order ******
- Corridor of the future
- Multiple Agency Partnership
- SB 468
 - Balanced rail, highway, community,
 - bike/ped improvements
 - "Get in, get out" of coastal lagoons
- One of six California CMGC pilot projects











Program Scope

A 30-year comprehensive and sustainable solution for the region.

- Express Lanes on I-5
- Double tracking the coastal rail line
- Integrated bike,
 pedestrian, and
 habitat improvements







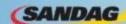




Active Transportation











Improving the Coastal Environment



Site Purchased: **Restoration Plan Underway**

- Hallmark (east/west)
- **Dean Family Trust**
- **Laser Property**
- La Costa Property
- Deer Canyon II (site in escrow)
- San Dieguito Lagoon W19 (environmental review underway)

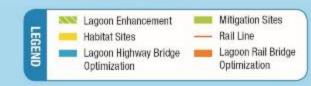
Restoration Projects in EIR/EIS Process

- San Elijo Lagoon (draft out for review)
- Buena Vista Lagoon (draft to be released November 2014)

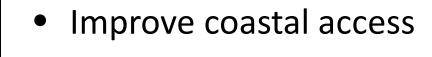
- San Elijo Rail/Highway
- Batiquitos Rail/Highway
- Buena Vista Rail/Highway

Endowment Account and Oversight Committee to be Established

- **Batiquitos Lagoon Inlet Maintenance**
- Los Peñasquitos Lagoon Inlet Maintenance



Opportunities and Integration



Improve tidal flushing

Manchester Ave. Bridge (before)



(after)







Net Benefit

	No Build	Build	Highlights
Coastal Access			 New 27-mile NCC Bike Trail and 7 miles of coastal rail trail Completes east-west/north-south bike/ped trail links Highway/rail improvements maximize coastal access Alleviates demand/spillover traffic on local roadways, further improving coastal access and maintaining coastal character
Coastal Habitat			 Regionally significant habitat restoration and preservation Advanced no net loss mitigation prior to project impacts Restores/preserves open space threatened by development 78 acres of uplands and 55 acres of wetlands established and restored
Water Quality/Wetlands			 Improved tidal flushing Long-term endowment for lagoon maintenance Significantly improve run-off treatment Improves hydrology of 10 coastal drainages
Air Quality			 New bike/ped facilities creates non-vehicular links to transit and activity centers Improved travel on rail and highway and local surface streets minimizes congestion, reducing emissions
Multimodal Alternatives			 Facilitates smart growth, ensuring transit, roads, bike&ped routes support infill development Prioritizes alternates to SOV trips, including carpools, vanpools, rail and bus transit Express Lane revenue supports corridor transit services Increase options for non-motorized and transit access to the coast









Where we are today







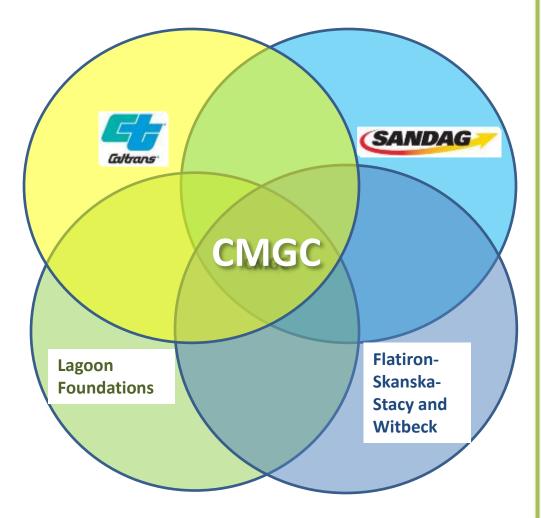




Construction Manager General Contractor

- Minimize impacts to the environment and public
- Maximize opportunities for construction alternatives
- Common understanding of project elements to reduce construction risks

Design to cost











Best Practices

Entitlement Best Practices

- Holistic system approach
- Shared agency objectives
- Integration brings opportunity

CMGC Best Practices

- Good owner/contractor relationship results in design innovations
- Cost negotiations require new skills and knowledge
- Integration requires blending agency business practices









Next Steps

- Phase 1 Begin Initial GMP Jan 16
- Phase 1 Coastal Commission Hearing March 2016
- Begin Construction Late Spring 2016
- 5 year construction









Contact Information

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Questions & Input

Submit a question using the chat box



Or



Dial *1 to call in your question by phone



Major Project Spotlight: R-10 Project Management Strategies for Complex Projects & Project Management Plans

Sue Datta

Michigan DOT

Carlos Figueroa
FHWA - OIPD





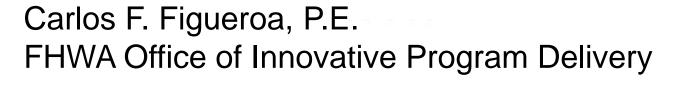






SHRP2 Renewal (R10) Project Management Strategies for Complex Projects

Joint DOT/FHWA Major Projects Webinar



November 10, 2015





What is SHRP2?

Tools to save lives, save money, save time.



Products developed from objective, credible research



 Solutions that respond to challenges of the transportation community – safety, aging infrastructure, congestion



- Collaborative effort of AASHTO, FHWA, and TRB
- Tested products, refined in the field

SHRP2 Solutions offer new technologies and processes to enhance the efficiency of transportation agencies

R10 - Managing Complex Projects

 Guide for Project Management Strategies for Complex Projects

 Outlines techniques for managing complex projects, e.g. Five dimensional project management model

– Tools:

R10

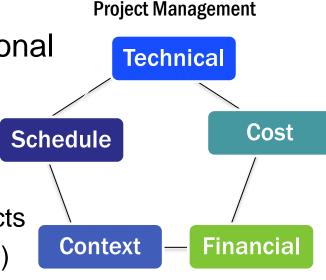
Training program for DOT staff

Case studies on various types of projects

Forms (5 methods + 13 execution tools)

Link to Guidebook
 http://onlinepubs.trb.org/onlinepubs/shrp2/SHRP2prepubR10Guide.pdf

Link to TRB Tuesdays webinars
 http://www.trb.org/ElectronicSessions/Blurbs/168714.aspx



5 Dimensional

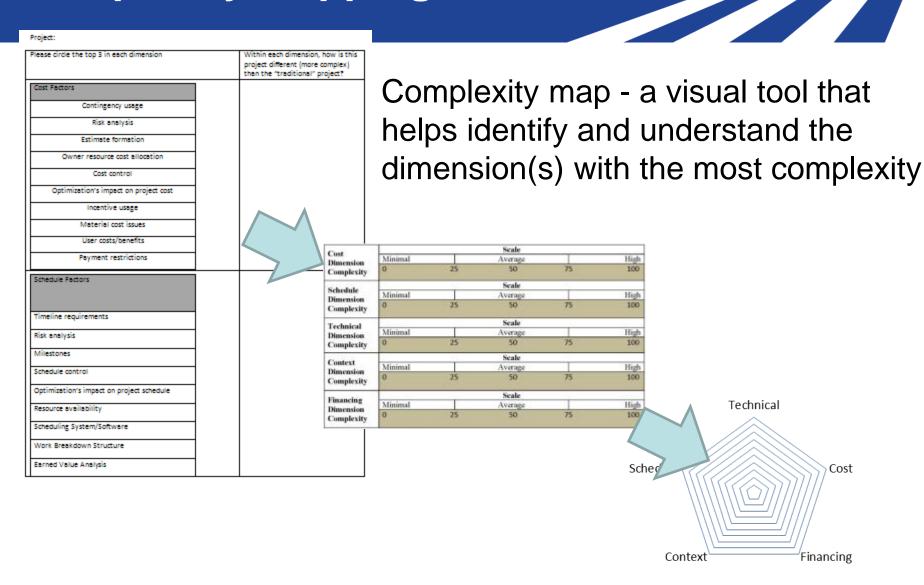
R10 - Managing Complex Projects

Benefits:

- <u>Early</u> communication in the process
- <u>Early</u> identification of complexity based on needs of the specific project
- <u>Early</u> preparation of the financials, schedule, and resources
- Looking at <u>context</u> and <u>financing</u> as drivers of the project
- Earlier identification of <u>critical success factors</u>
- Creates a <u>realistic balance</u> between the <u>available funding and scope</u>
- Develop <u>project action plans</u> for success

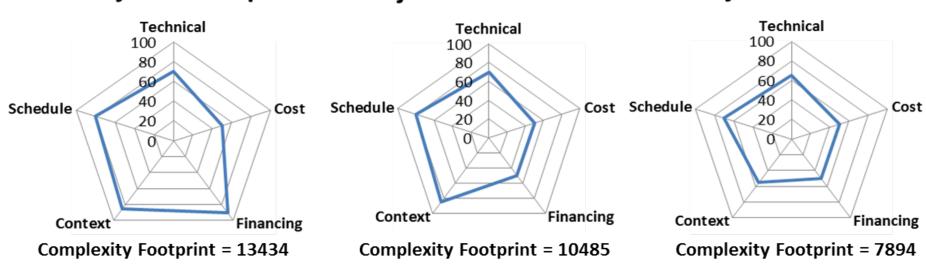


Complexity Mapping



Iterative Mapping Example

Initial Complexity Map Second Complexity Map Third Complexity Map Project Concept Project Authorization Project Execution



Average Complexity (all rated 50)= 5944; Maximum Complexity (all rated 100) = 23776

5DPM Methods

 Method 1: Define Critical Project Success Factors

Most Complex				Least Complex	
Schedule	Technical	Context	Cost	Financing	S
Complete the project on time or early (Date 1/1/2002 in time for Olympics)	Define scope critical issues to allow early start of work immediately after notice to proceed (RR, utilities, ROW)	Get waiver of typical DBE requirements on federal aid portion and agree to yearly goals over five year project duration, based on local DBE capacity (\$4 million/year)	Complete the project at or below cost (Total Cost < \$1.7 billion)	Change cash flow models and federal aid waivers to accommodate use of design build (approval by 1/1/1996)	;),

5DPM Methods (cont.)

- Method 4: Prepare Early Cost Model and Finance Plan
 - Process to map cash inflows and outflows
 - Identify secured and unsecured sources of funds and when those funds will become available
- Method 5: Develop Project Action Plans (PAPs)
 - PAPs Goal: develop innovative solutions to remove or reduce constraints to project success
 - Targeted Project Action Plans to anticipate and overcome project roadblocks and reduce speed bumps

Project Execution Tools

- Incentivize Critical Project Outcomes
- Develop Dispute Resolution Plan
- 3. Perform Comprehensive Risk Analysis
- 4. Identify Critical Permit Issues
- 5. Evaluate Applications of Off-Site Fabrication
- 6. Determine Required Level of Involvement in ROW/Utilities
- 7. Determine Work Package/Sequence
- 8. Design to Budget
- 9. Co-Locate Team
- 10. Establish Flexible Design Criteria
- 11. Evaluate Flexible Financing
- 12. Develop Finance Expenditure Model
- 13. Establish Public Involvement Plan

R10 Current Users

R10	Туре	DOT
Round 1 – Feb. 2013	Lead Adopter	FHWA Federal Lands Georgia Massachusetts Michigan New Mexico
Round 4 – Aug. 2014	User Incentive	Alaska Arizona Iowa New Hampshire North Carolina Washington Wisconsin Rhode Island

Contact Information

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SHRP2 Implementation Assistance Website

http://www.fhwa.dot.gov/goshrp2

Comments or Questions?





Save lives. Save money. Save time.









I-75 Modernization Project

R-10 Project Management Strategies for Complex Projects & Project Management Plans

Joint DOT/FHWA Major Project Webinar November 10, 2015 1:30-3:30 PM



1-75 Modernization Project

- I-75 is an interstate freeway that runs north to south from Michigan's upper peninsula to Florida
- Constructed in the 1960s and without any major upgrades in project corridor
- Both an urban (depressed) and rural/suburban (at-grade) section





I-75 Modernization Project

North of M-102 to South Boulevard

- Six-lane facility with three travel lanes in each direction from M-102 to south of 12 Mile Road
- From 12 Mile Road to South Boulevard, it is a six-lane rural freeway with interchanges every few miles





1-75 Modernization Project

North of M-102 to South Boulevard

- Project covers about 18 miles within Oakland County, including 11 interchanges, 16 road crossings, traversing through six communities
- Contains one freeway to freeway interchange (I-696, not included in project improvements)
- 51 structures: 47 bridge replacements (41 vehicular and 6 pedestrian) with four new structures







Background

1992: I-75 Northern Oakland County Corridor Study

1999: I-75 SEMCOG/MDOT Corridor Study

2002: Draft Environmental Impact Statement

2005: Final Environmental Impact Statement

2006: Record of Decision

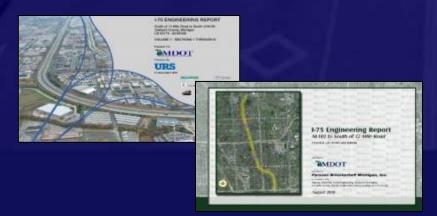
2009: Engineering Report for 12 Mile Road to M-59 (at-grade)

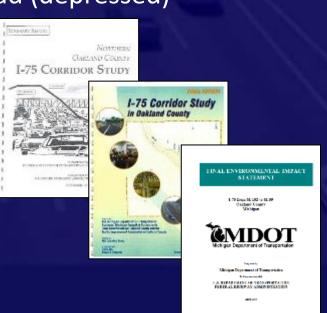
2010: Engineering Report for M-102 to 12 Mile Road (depressed)

2011: Success Management Workshops

2013: Design Modification Analysis

2013/2014: Community Aesthetic Workshops







Scope of Work

- Reconstruct existing three lanes
- Construct one new High-Occupancy Vehicle
 (HOV) lane for peak hour operation only
- Reconstruct Square Lake interchange to standard right exits and entrances
- •Reconstruct 14 Mile and 12 Mile Road interchanges
- •Reconstruct I-696 ramp to northbound I-75 by separating on-ramp from the northbound off-ramp to 11 Mile Road





Scope of Work

- Upgrade freeway geometrics
- Replace all vehicular and pedestrian bridges
- Reconstruct service drives (southern portion to 12 Mile Road)
- Construct corridor wide aesthetic improvements
- Improve drainage system
- Upgrade and construct carpool lots & ITS technologies





Cost

Total cost \$1.32B

Year of Expenditure Dollars

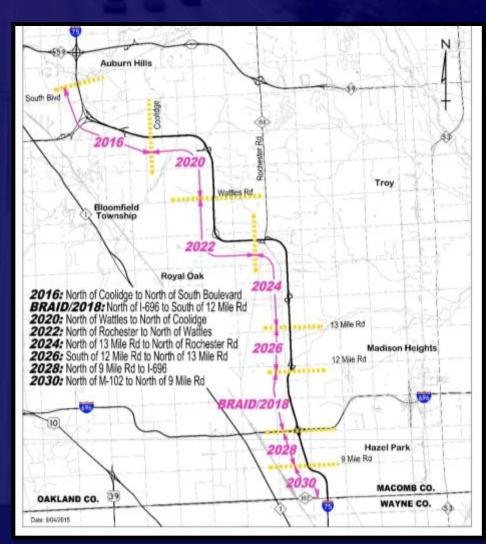
- Roadway
- Bridges
- Right-of-way
- Maintenance of traffic
- Design
- Construction engineering





Construction Segments

- Due to funding limitations and mobility concerns, project corridor was divided into eight construction segments
- First two construction segments address operations and crash concerns
- Remaining segments are constructed from north to south in succession





2016 Schedule

TASKS	COMPLETION DATE
Cost Estimate Review and Financial Plan	
I-75 Modernization Cost Estimate Review	June 16-18, 2015
I-75 Modernization Cost Estimate Review Final Report Submitted	August 14, 2015
I-75 Modernization Initial Financial Plan (IFP)	August 21, 2015
FHWA Review and Approval of IFP	August 28, 2015
Interchange Access Justification Report (IAJR)	
IAJR Submitted to MDOT	September 17, 2015
IAJR Submitted to FHWA	September 24, 2015
2016 Design Build Segment	
Project Information Sheet Posted	June 5, 2015
Request for Qualifications Posted	September 8, 2015
Statements of Qualifications Received	October 26, 2015
Issue Final Preliminary Plans to MDOT	December 4, 2015
Issue Final RID to MDOT	December 4, 2015
Final MDOT Approval of Books, Plans and RID	December 18, 2015
RFP Advertisement	December 21, 2015
Proposal Due Date	April 4, 2016
Contract Award	June 1, 2016



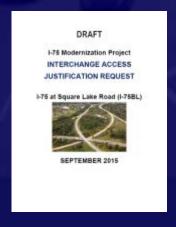
Corridor Schedule

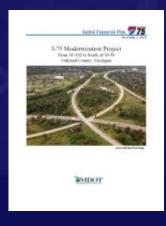
SEGMENTS	COMPLETION DATE	
2016 - N of Coolidge to N of South Blvd		
Design/Build Contract Award	June 1, 2016	
Design/Build Construction & Utilities	December 31, 2018	
2018 - N of I-696 to S of 12 Mile Rd.		
ROW	September 29, 2017	
Design	December 31, 2017	
Construction & Utilities	December 31, 2020	
2020 - N of Wattles to N of Coolidge		
Design	December 31, 2019	
Construction & Utilities	December 31, 2022	
2022 - N of Rochester ot N of Wattles		
Design	December 31, 2021	
Construction & Utilities	December 31, 2023	
2024 - N of 13 Mile Rd. to N of Rochester Rd.		
Design	December 31, 2023	
Construction & Utilities	December 31, 2025	
2026 - S of 12 Mile Rd. to N of 13 Mile Rd.		
ROW	December 31, 2023	
Design	December 31, 2025	
Construction & Utilities	December 31, 2027	
2028 - N of 9 Mile Rd. to I-696		
ROW	December 31, 2025	
Design	December 31, 2027	
Construction & Utilities	December 31, 2029	
2030 - N of M-102 to N of 9 Mile Rd.		
ROW	December 31, 2027	
Design	December 31, 2029	
Construction & Utilities	December 31, 2031	



Current Status

- Re-Evaluation, IFP, and IAJR in review
- PMP Executive Leadership Endorsement underway
- Design/Build Books and 30% plans under review
- RFQ advertised
- RFP to be issued late 2015/early 2016
- Selection and contract award expected Spring 2016











R10 Workshops

- Provided discussion and alternate perspectives at key points of plan development
- Reviewed the Five-Dimensional Project Management Planning method and applicability to mega-projects
- Highlighted financing issues
- Defined and reviewed context and implications to project advancement
- Provided expertise from other parts of the country to share experience and guide plan development





R10 Success

- Focused MDOT to develop feasible, reasonable funding for the mega-projects
- Identified & ensured context was identified, acknowledged, and addressed with a plan
- Introduced risk management planning
- Enabled early preparation of cost modeling and financial plan development





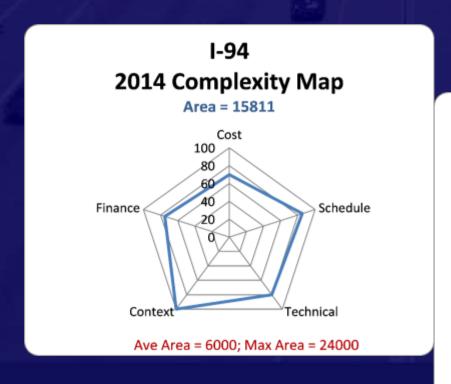
Other Elements

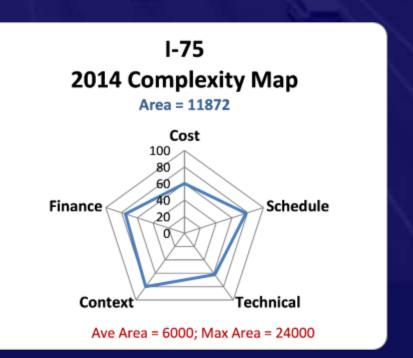
 Unable to easily transfer and apply to average or small sized projects



Lessons Learned

 Complexity mapping should be an electronic visual tool in project development and as checkpoints throughout the process



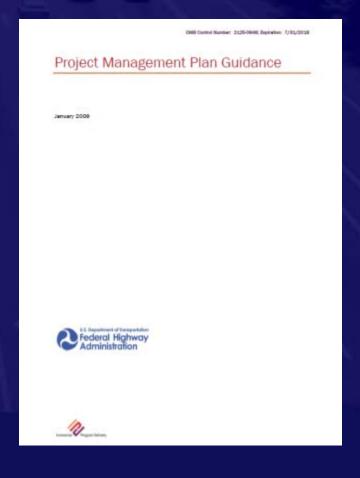




Lessons Learned

- Context and financing are key elements that need to be planned for and addressed early
- Use of focused, strategic plans help guide development

 Incorporate expectations and R10 elements in PMP outline



STAKEHOLDER ENGAGEMENT OVERVIEW

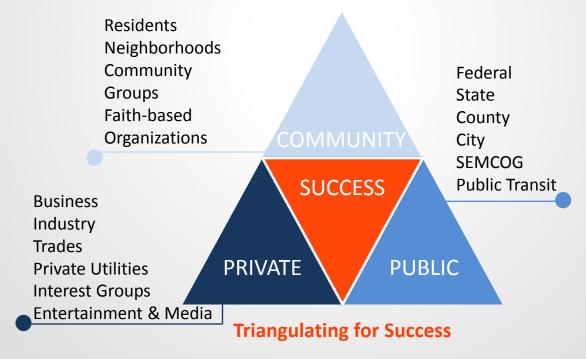


Goals:

Achieve a 90% success rating on the public engagement process by engage 100% of stakeholders so they know MDOT is listening to their concerns.

Engagement MUST be...

Relevant, Credible and Inclusive





STAKEHOLDER ENGAGEMENT PROCESS

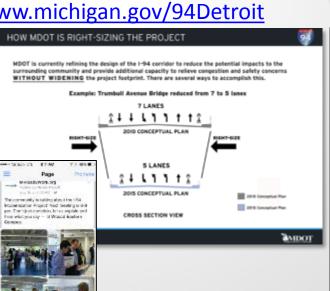


Methods to engage the public

- Stakeholder meetings
- Advisory committees
- Public meetings
- Surveys
- Project website http://www.michigan.gov/94Detroit
- Social media
- Traditional media
- Email/Direct mail
- Newsletters











STAKEHOLDER ENGAGEMENT SUCCESSES

NTERSTATE 94

- July 2015 Public Meetings (184 attendees)
- Media Coverage by 12 media groups
- 600+ Facebook subscribers
- Published Summer 2015 Newsletter
- Outreach to 79 organizations
- 266 Stakeholder Survey participants

Next Steps:

- Fall 2015 Local Access coordination with City Detroit
- Community Connector Bridge Design Charrette
- Winter/Spring 2016 Public Meeting
- Advisory Committee Meetings
- Project Branding (logo, video)



Contact Us:

Rob Morosi, MDOT Communications Specialist, 248-483-5107 www.michigan.gov/drive

www.twitter.com/MDOT_MetroDet www.facebook.com/MichiganDOT Sign up for e-mail alerts from MDOT



I-75 Modernization Project





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Questions & Input

Submit a question using the chat box



Or

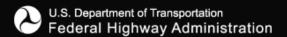


Dial *1 to call in your question by phone



Major Project Spotlight: I-595 Express Corridor Improvements Project

Kelley Hall, P.E. Paul Lampley, PE *Florida DOT*







Paul Lampley, P.E. **595 Construction Project Manager**

Florida Department of Transportation



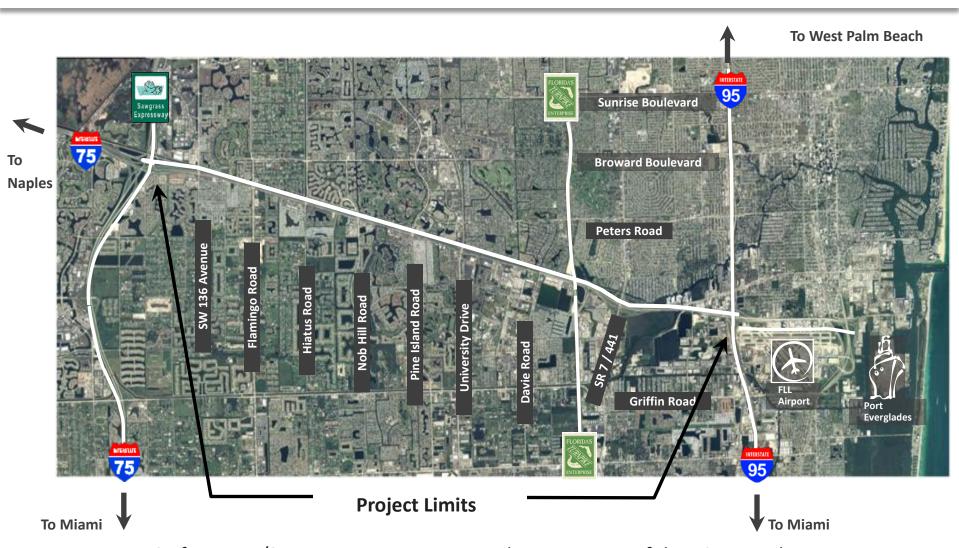






PROJECT LIMITS





I-595 from I-75/Sawgrass Expressway Interchange to west of the I-95 Interchange and Florida's Turnpike from Griffin Road to Peters Road



PROJECT COMPONENTS





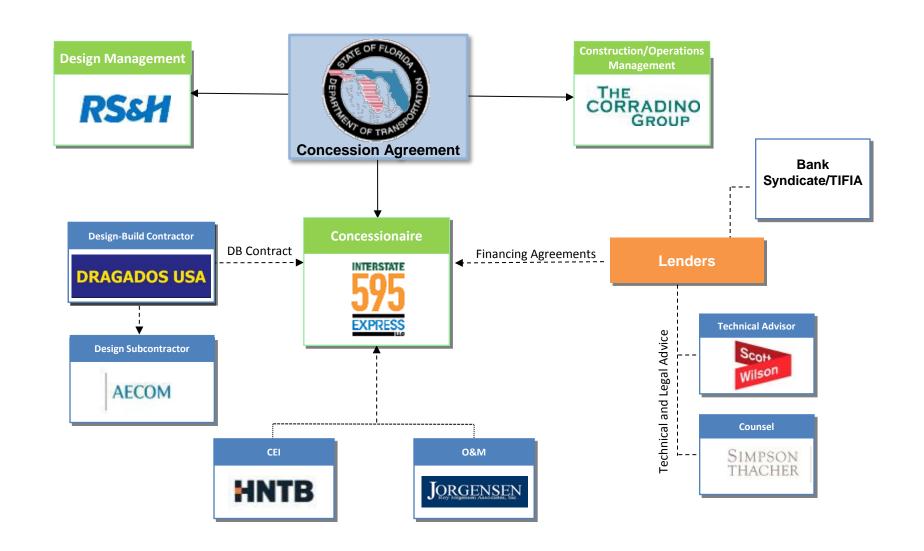
- Three reversible express lanes
 - Direct connection to Florida's Turnpike
 - Open Road Tolling
- SR 84 continuous connections
- Florida's Turnpike Interchange

- Broward County greenway
- Ramp improvements
 - Auxiliary lanes
 - Braided ramps
 - Bypass bridges
- Sound barrier walls



I-595 TEAM ORGANIZATION







PROJECT HIGHLIGHTS







P3 Innovations



- Reuse of existing infrastructure
 - Third level ramp P salvaged
 - Third level ramp N lifted and lengthened
 - Tamp T-1 widened
 - Salvage of existing cross-road bridges
- Minimization of R/W impacts
- Minimization of utility impacts
- Bid price was \$200 million below FDOT engineers estimate
- Less than 1% FDOT added work during construction
- Construction complete with zero claims



BENEFITS OF P3 DELIVERY METHOD

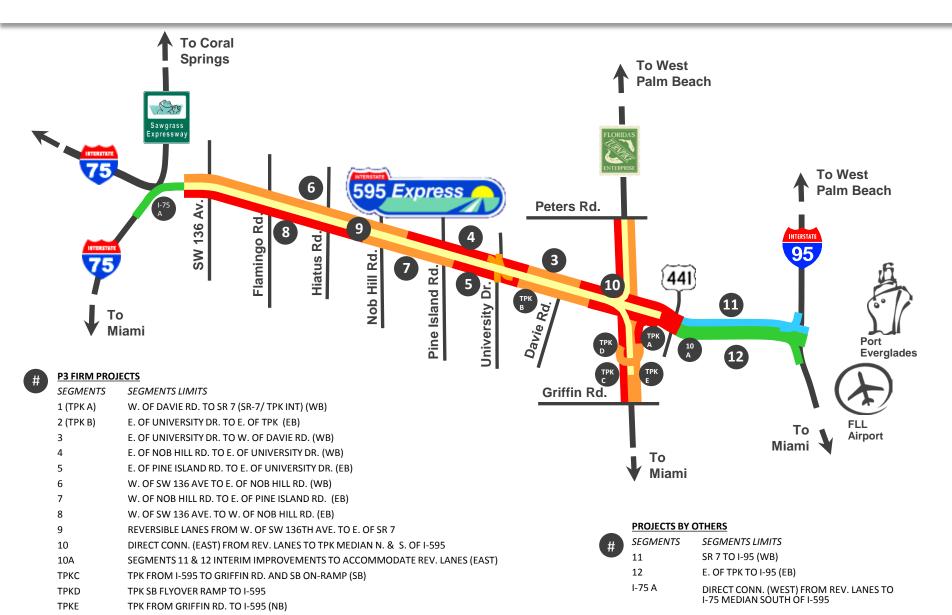


- Encourages innovation
- Advances project delivery
- Can provide significant cost savings
- Allows appropriate risk transfer
- Creates jobs and stimulates the economy
- Provides for performance-based O&M



INITIAL PROJECT PHASING







How DID P3 ADVANCE I-595?



- Accelerated the schedule
 - Advanced noise wall construction
 - Provided capacity improvements a minimum of 15 years sooner than the initial (conventional) plan
 - Reduced MOT duration impacting public and businesses
- Provided finance mechanism for funding shortfall





PROJECT SCHEDULE



- Execution of agreement: March 3, 2009
- NTP 2 (take over O&M): July 31, 2009
- Major construction begin: February 26, 2010
- Open Express lanes: March 26, 2014
- Substantial completion: March 26, 2014
- Final acceptance: September 5, 2014
- Construction (\$1.2 billion) completed on schedule in 49 months
- Project completed with zero days added to original schedule (no weather days or holidays permitted per contract)



COST BENEFITS OF P3



- Encourages innovation and reuse of existing infrastructure
- Encourages long-term quality
- Allows economy of scale
- Provides fixed cost for design and construction
- Provides fixed cost for long-term O&M
- Includes renewal and hand-back requirements
- Provides financial mechanism to fund shortfall in agencies work program



SUCCESS OF 595 EXPRESS P3

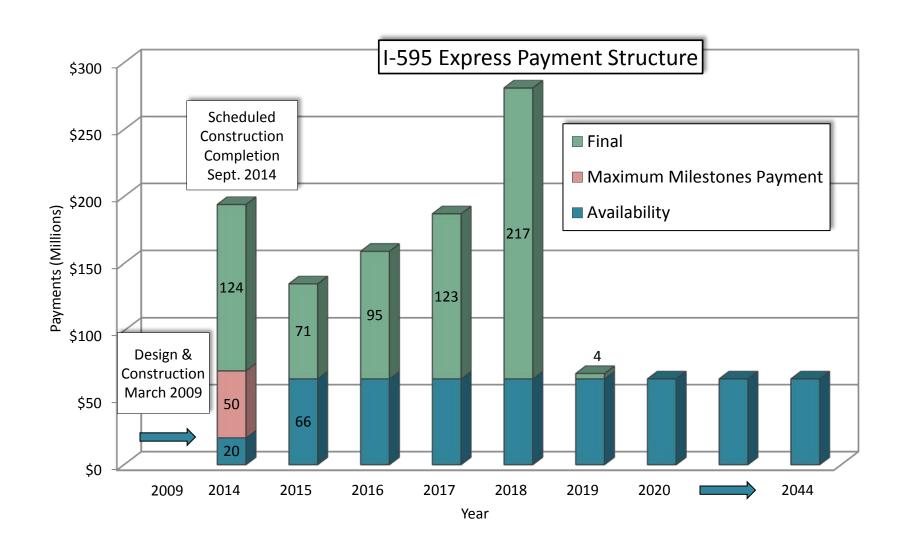


- No payments made until the road was substantially complete and open to the public
- Less than 1% FDOT added work during construction
- Construction complete with zero claims
- Project finished on original schedule



PAYMENTS TO CONCESSIONAIRE







APPROPRIATE RISK ALLOCATION



Risk Category	Risk Allocation		
	FDOT	Concessionaire	Shared
Political	Х		
Financial		X	
Traffic & Revenue	Х		
Right-of-Way	Х		
Permits/Government Approvals			Х
Utilities			Х
Procurement	х		
Construction		Х	
Operations & Maintenance		X	
Hand-Back		Х	
Force Majeure			Х
Change in Law	Х		
Contamination			Х
Geotechnical		X	



ECONOMIC BENEFIT



- Employed over 2,000 people per month directly on the project
- Pumped over \$18 million per month into local economy
- Contracted with over 275 local companies
- Over 11% of the construction cost awarded to disadvantaged business enterprises
- Graduated 164 trainees in the construction trades



EXPRESS LANES



- All motor
 vehicle types
 are allowed to
 use the I-595
 Express lanes
- All users are charged a toll in the I-595 Express lanes





OPERATIONS AND MAINTENANCE



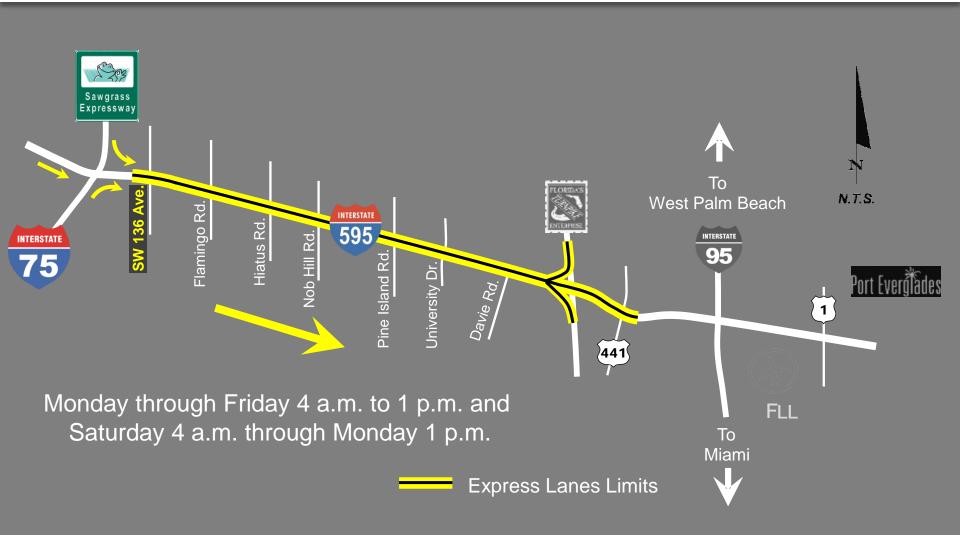
- Performance based O&M
 - Payment adjustments
 - Non-compliance points
- Higher level of service to users
- Added traffic management center operations 24/7 – 365 days
 - CCTV monitoring
 - Road rangers 24/7
 - Rapid incident scene clearance
 - Severe incident response vehicles





I-595 EXPRESS LANES LIMITS

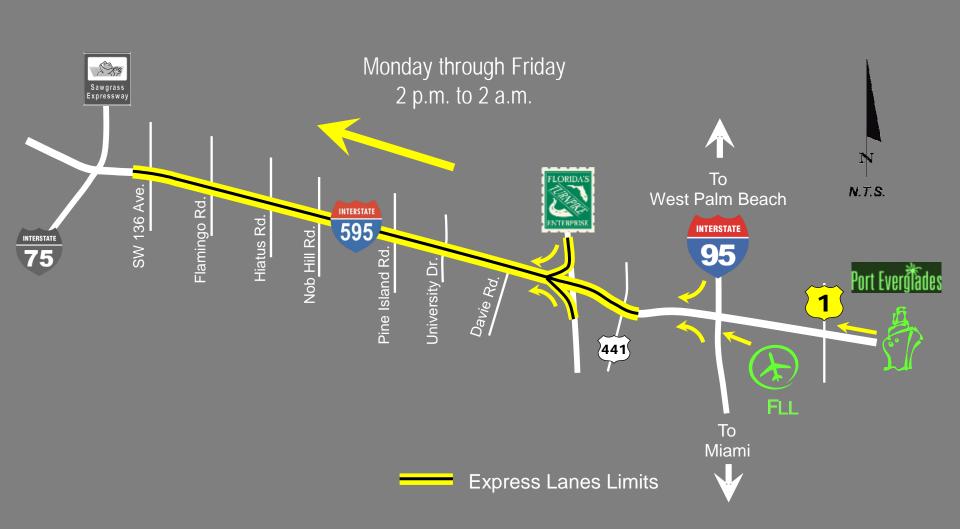






I-595 EXPRESS LANES LIMITS





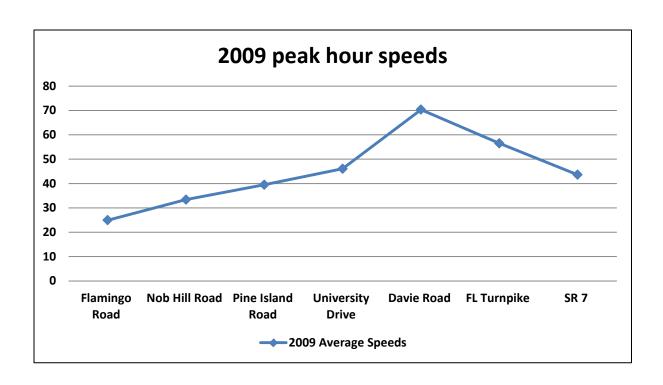


BEFORE 595 EXPRESS



ROADWAY AVERAGE SPEED

2009 44.9 MPH

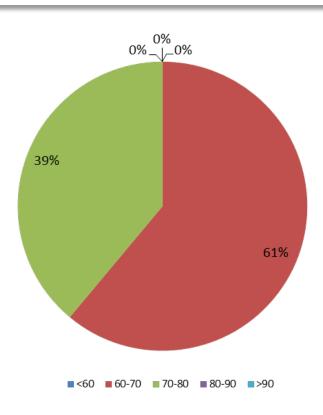


Average speeds show are the 8am to 9am average for the month of August



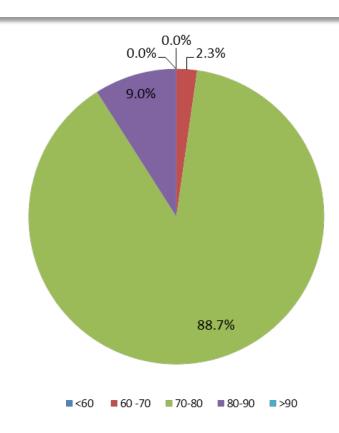
AFTER 595 EXPRESS (2015)







- 61% between 60-70 mph
- 39% between 70-80 mph
- 0% lower than 60 mph or over 80 mph

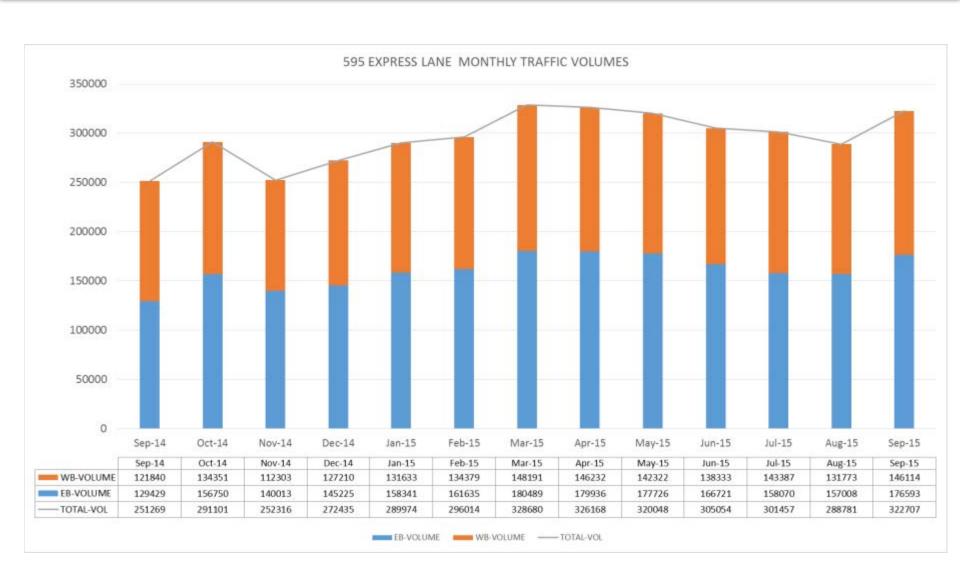


- 2015 Speed Distribution for Express Lanes
 - 88.7% between 70-80 mph
 - 9.0% between 80-90 mph
 - 2.3% between 60-70 mph
 - 0% lower than 60 mph or higher then 90 mph



595 EXPRESS TRAFFIC

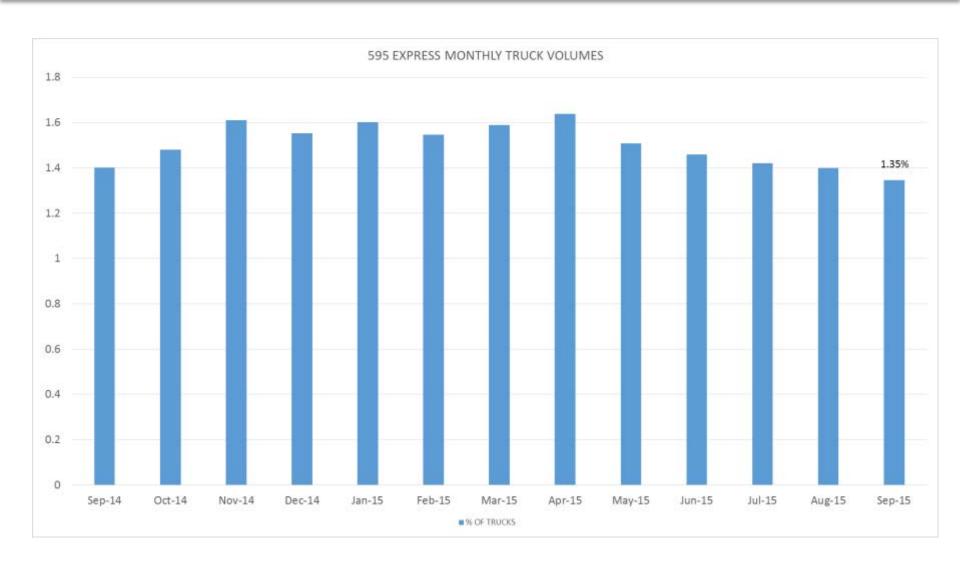






595 EXPRESS TRUCK USE



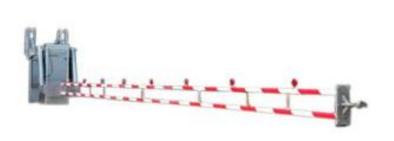


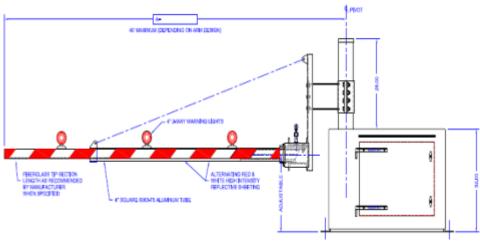


I-595 WARNING AND BARRIER GATES FOR REVERSIBLE RAMPS









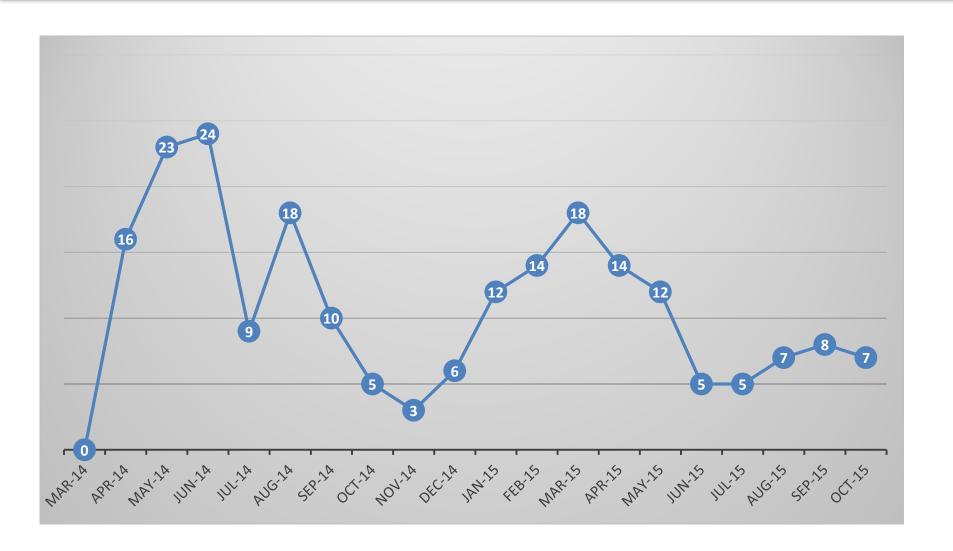
5 Barrier Gate

34 Warning Gates



I-595 WARNING GATE HIT HISTORY







I-595 WARNING GATES FOR REVERSIBLE RAMPS



- 1. Shortening the length of the first warning gates: Originally, warning gates covered the entire width of the travel lanes. Gates were shorten by 18" on May 24th, 2014.
- 2. Second shortening of the warning gates at Ramp R-3: Despite the first shortening, vehicles continued to hit the warning gates of Ramp R-3. Gates were further shortened, to a length of no less than the middle point of the lane on June 16th, 2014.
- **3. Additional Improvements to Ramp R-3 were considered**: Re-striping of Ramp R-3 was implemented in August 2014.
- **4. Change of banners of the warning gates**: The color and the reflectivity of the original banners were improved by changing the color and the material. The new banners were implemented in September 2014.



I-595 BARRIER GATES FOR REVERSIBLE

RAMPS





5 Barrier Gates



2 Barrier Gate hits since opening.

No vehicles have gotten past the barrier gate.



EMERGENCY ACCESS GATES



Longitudinal Sliding Gates

- 42 foot-wide opening
- Opened from the Traffic Management Center or manually





Shoulder Closure Gates

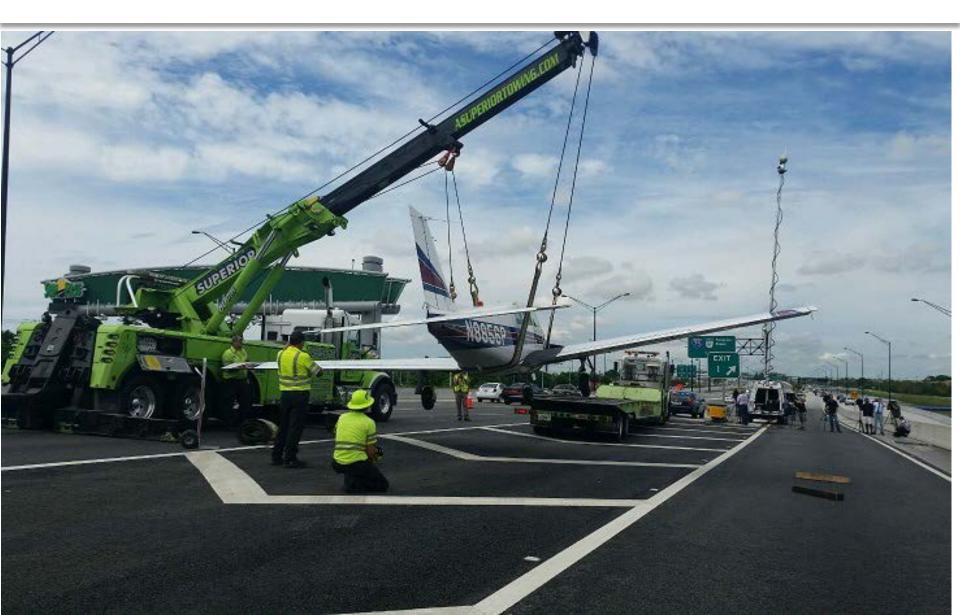
Emergency Access Gates

- There are five throughout the corridor
- Provide emergency vehicles access into the Express Lanes (three in the westbound direction, two in the eastbound direction)



MAJOR RISC EVENTS









Contact Information

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Questions & Input

Submit a question using the chat box



Or

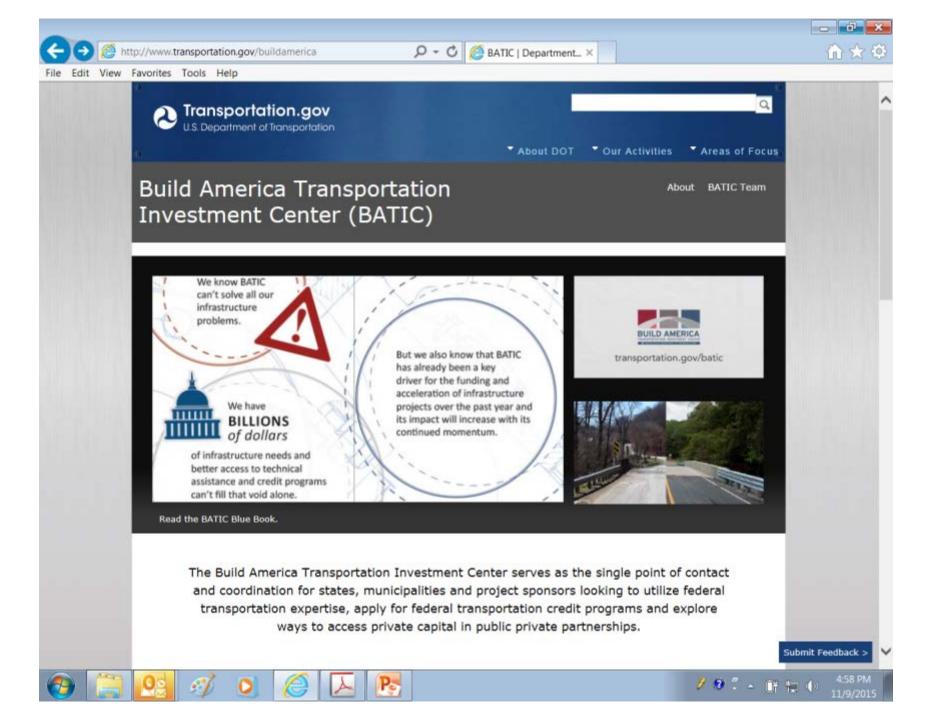


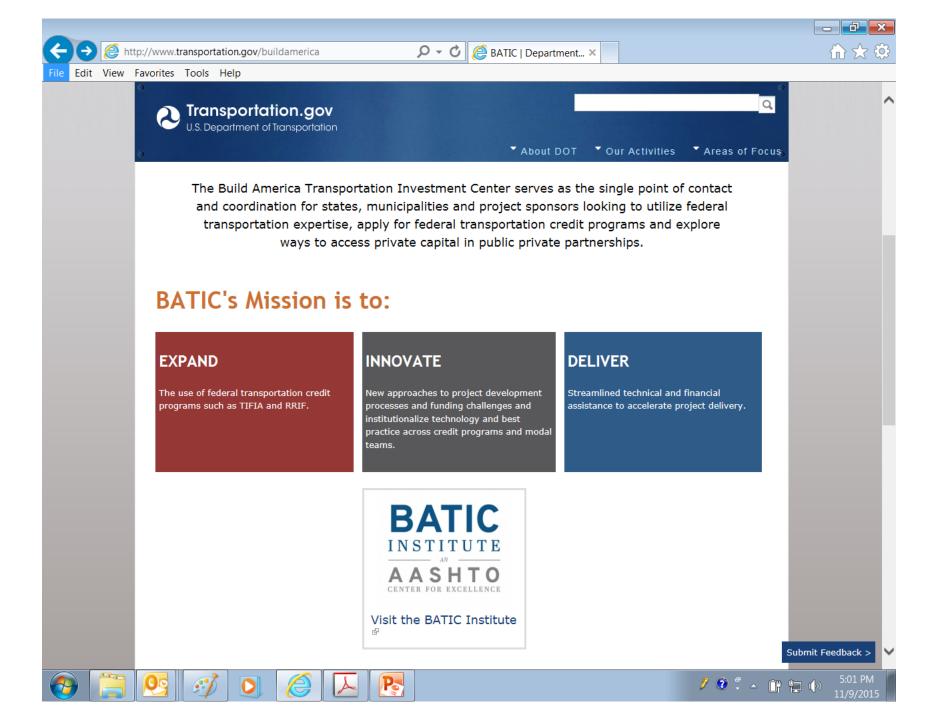
Dial *1 to call in your question by phone

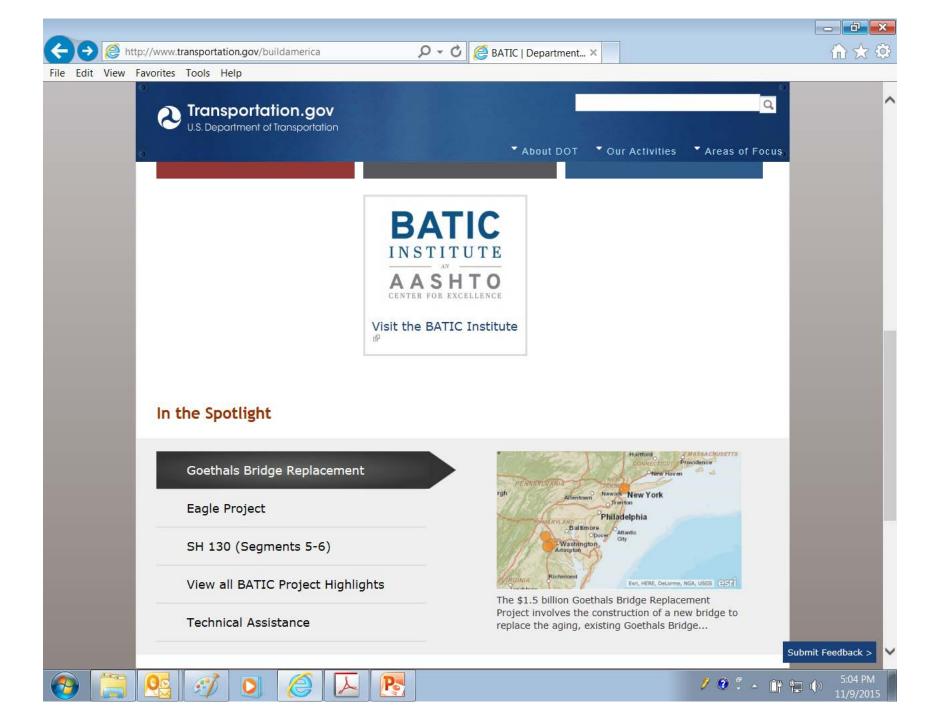


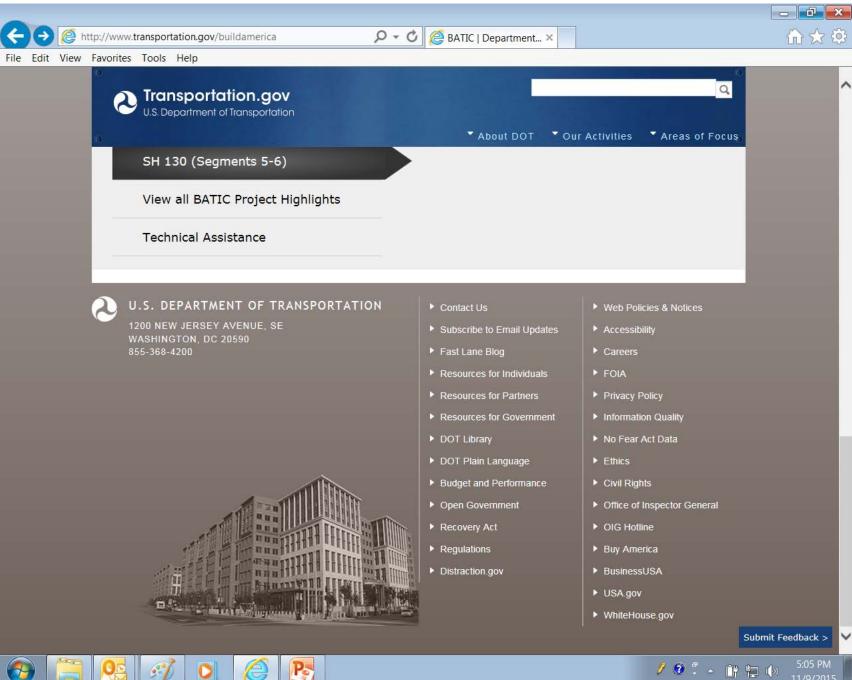
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Questions & Input

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Or



Dial *1 to call in your question by phone



Upcoming Webinars

Joint DOT/FHWA Major Project Webinar

Tuesday, May 10th

1:30 p.m. to 3:30 p.m. (ET)

Quarterly Major Project Webinar (FHWA)

Tuesday, February 2nd

1:30 p.m. to 3:30 p.m. (ET)

Recordings available at: http://www.fhwa.dot.gov/ipd/project_delivery/training/

Contact LaToya at latoya.johnson@dot.gov or 202-366-0479 if you have topic ideas for upcoming webinars





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