## Local Agency Bridge Program 2016 Bridge Conference

## **Project Letting Summary**

### **FY 2015**

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- 101 Total Projects = \$68 million

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### **FY 2016 (As of March 1<sup>st</sup>)**

- 53 Local Bridge Projects = \$31 million
- April Advertised Projects

-3 Local Bridge Projects = \$2 million Waiting on Federal Funds from FAST Act

Sent out February 9th to CRA and MML – Call for FY 2019 Construction

### Deadline – May 2, 2016

Sent out February 2nd to CRA and MML – Call for FY 2019 Construction

#### Deadline – May 2, 2016

 "Call For Projects" Location: <u>www.michigan.gov/mdot</u>, Doing
 Business, Local Agency Program, Bridge
 Program, Call For Projects

Application limit – 5 Total
 Multiple PM's count as 1 Application
 No limit on structures in multiple PM application
 Bundle for cost effectiveness

 Minimize Mob and Traffic Control costs
 Good Estimate Range \$150k-500k
 Lower than 150K – not cost effective
 Higher estimates limits RBC selection ability

Application limit – 5 Total Multiple PM's count as 1 Application No limit on structures in multiple PM application Bundle for cost effectiveness Minimize Mob and Traffic Control costs Good Estimate Range \$150k-500k Lower than 150K – not cost effective Higher estimates limits RBC selection ability PM's selected by RBC consensus – Not by **Points** 

Application Estimates: General Estimate: Replacements Rural: \$300/sft of Proposed Deck Area Urban: <u>\$320/sft</u> of Proposed Deck Area Approach Costs: \$35k/Sta, \$150k minimum, Urban higher (\$300k to \$500k) Replace, Rehab and Preventative Maintenance - Fill Out "Estimate Worksheet of Costs"

#### Application Keynotes

Use New Cost Estimating Worksheets
Cost Estimate Worksheets updated: 12-11-15
Cost increases for several items of work
Decreases on some work items
Mobilization estimate 10%
Encourage Asset Management Plan with App.
PE, CE and ROW costs NOT eligible

#### Application Keynotes

Cost Estimate Worksheets updated: 12-11-15 Cost increases for several items of work Decreases on some work items Use New Cost Estimating Worksheets Mobilization estimate 10% Encourage Asset Management Plan with App. PE, CE and ROW costs NOT eligible Submit Applications Electronically Convert to .pdf – DO NOT scan

## Accurate/Updated SI & A

- Calculated rating points based SI & A information
- MDOT QA on bridge inspection reports
- Common issues/errors
  - ADT Outdated
  - Route Classification incorrect
  - Load Rating and Posting Codes incorrect/outdated
     Item 64F is used to determine Load Capacity & Cond. points
  - SI&A Posted Loading not matching bridge site posting
    Lack detail in item condition description
  - Lack work recommendations

Key Items to include in Applications
 Complete Narrative
 Current Resolution
 Public Utility relocation costs
 Detailed Cost Estimates – Use Worksheets

Key Items to include in Applications Complete Narrative Current Resolution Public Utility relocation costs Detailed Cost Estimates – Use Worksheets Proper Scoping of Work Rehabilitation and PM projects Replacements – Don't underestimate size of new bridge Applications - Due May 2, 2016

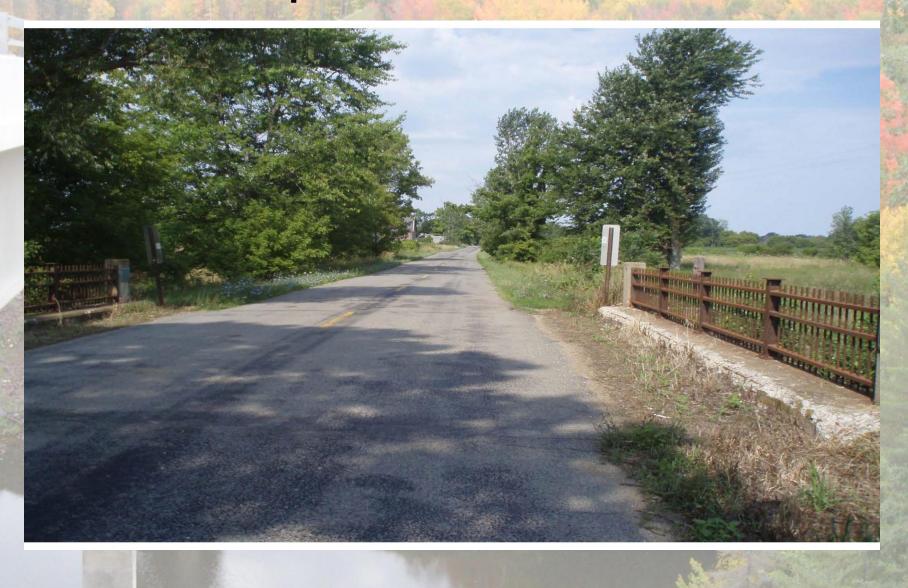
## How to Increase Application Rating

Look for additional sources of funding STP, Safety, Economic Development, etc. Increase the Local Agencies funding share - Ex. - 5% to 10% or more Closed bridges – consider removing bridge and cul-da-sac road. Bundling PM applications Ideas to conserve Local Bridge Program **Funds** 

## **Bridge Preventative Maintenance**

- Greatest Concern: Keeping water and chlorides off the bridge elements.
  - Leaking joints and open bridge railings
    HMA overlays without Waterproof Membrane
    Deck Drains without extensions
    Debris/Vegetation trapping water

These are Critical Items that need Immediate <u>Attention!</u>













## Local Bridge Funding

Local Bridge Program Federal Funds Off-System federal bridge funds \$18.4 million State Funds 1/2 cent of gas tax \$27.1 million \$1.2 billion in new State Road funding Adds nothing to Local Bridge Program



## Local Bridge Funding

\$1.2 billion in new State Road funding – Act 51 Distribution
39% Counties - \$468 million
22% Cities/Villages - \$264 million

Annual distribution when fully implemented in 2021.

Relaying on Locals to fund additional bridge projects with new Local Funds.



## Regional Prosperity Initiative (RPI)

- MDOT announces new RPI May 2015
   Implemented Oct 21, 2016
   New Regional Alignment
  - 7 Regions
    - Grand gains 5 counties: 3 from North, 2 from SW
      - North Mason, Lake, Osceola
      - SW Allegan, Barry
    - Bay gains 2 counties: 1 from University, 1 from Metro
      - University Shiawassee
      - Metro St. Clair

## Regional Prosperity Initiative (RPI)

TSC county assignment has changed
See Regional Service Area map on MDOT website
Local Bridge Program by statute must align with "old" regions until the law is changed
MDOT considering having the statute changed

If the law is changed the Local Bridge Program will "align" with the "new" Regions

## **2015 Bridge Applications**

338 Bridge Applications Received \$260 million in applications (10% increase) ~ \$48 million in funding 89 Projects selected for FY 2018 "Mix of Fixes" –35% Replacement – 65% Rehab/PM 35% of total \$ selected are Rehab/PM Highest total to date

## **2015 Bridge Applications**

338 Bridge Applications Received \$260 million in applications (10% increase) ~ \$48 million in funding 89 Projects selected for FY 2018 "Mix of Fixes" –35% Replacement – 65% Rehab/PM 35% of total \$ selected are Rehab/PM Highest total to date "Mix of Fixes" – improves long term bridge condition vs replacement only

## Design - QC/QA Requirement

FHWA and MDOT review of Local design consultant QC/QA Establish Bridge Design QC/QA One page QC/QA certification document Added to revised Bridge Program Application

Applies to projects GI after June 1, 2016

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FHWA and MDOT review of Local design consultant QC/QA Establish Bridge Design QC/QA One page QC/QA certification document Added to revised Bridge Program Application Applies to projects GI after June 1, 2016 FHWA and MDOT looking at Programmatic review of all bridge designs.

## Design - QC/QA

MDOT 0258 (02/16)

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Clear Form

#### BRIDGE PROJECT QUALITY CONTROL (QC) AND QUALITY ASSURANCE (QA) CERTIFICATION

PROJECTS HAVING GRADE INSPECTIONS AFTER JUNE 1, 2016 WILL REQUIRE OC/OA CERTIFICATION

Page 1 of 1

This form must be completed, signed, sealed, and certified by both the Project (Design) Engineer for Quality Control (QC) and the Quality Assurance (QA) Engineer. Upon completion, the local agency forwards the original document, including seals and signatures, to MDOT LAP before construction funds can be obligated.

ELIGIBLE APPLICANT AGENCY DATE
ROUTE NAME

CROSSING

Refer to Federal Highway Administration (FHWA), Guidance on Quality Control and Quality Assurance (QC/QA) In Bridge Design (H-08-17) located at: <u>http://www.fhwa.dot.gov/bridge/h0817.pdf</u>

Quality Control (QC) shall include at a minimum:

- A supervisor or team leader responsible for determining the technical knowledge and experience of the designer/checker for a specific design.
- A documented program with detailed procedures, standards, and policies for oversight of the bridge design.
- Design calculations, checked calculations, review comments, and other pertinent documents.
- Bridge plan sheets shall include the names or initials of the designer and checker and the most current revision
  date. Names of the drafter and reviewer should also be added to the plans. Bridge design plans shall be signed
  and sealed by a Licensed Professional Engineer in the State of Michigan.
- Unique special provisions shall include the author's and reviewer's initials and date authored and checked.

Quality Assurance (QA) shall include at a minimum:

- Independent check of design calculations, unique special provisions by a qualified person or consultant other than the designer.
- Participation in field engineering reviews during design.

Based on the information included on this page, the designer/design consultant has adequately completed Quality Control and Quality Assurance for this project.

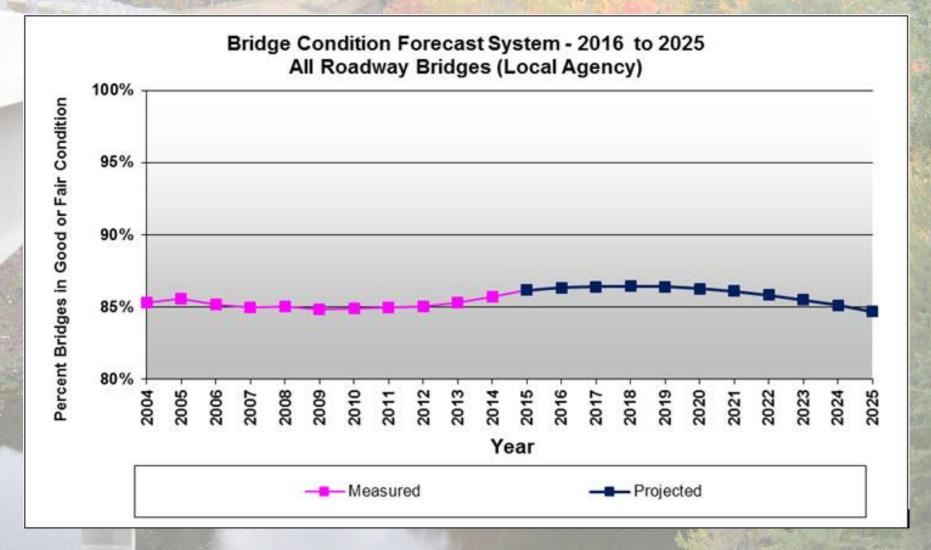
Signature (Project Design Engineer - QC)	Seal
Typed name and date:	
Signature (Engineer - QA)	Seal
Fyped name and date:	

- Transportation Asset Management Council (TAMC)
- Bridge Asset Management Training
  - Divide Workshop into 2 classes
    - One Technical Engineers/Consultants
    - One Non-Technical Managers/Road Commissioners
  - Technical
    - Focus on developing Bridge Asset Management Plan
    - Participants use their own inventory to develop asset management plan.

### Bridge Asset Management

- Non-Technical
  - Focus on overview of Bridge Asset Management
  - Participants will understand the concepts and importance of asset management for their bridge networks.
- Each class targets a specific group
  - Classes are more efficient use of time
  - Classes are tailored to specific audiences
  - Technical Class Leave with practical asset management plan for your agency

Bridge Dashboard Upgrades New Bridge AM Dashboard New improved Bridge AM Dashboard New graphics – Easier to navigate Bridge Asset Management **Evaluate Bridge Network Condition** Available Maintenance Options. The Right Fix at the Right Time. **Estimate Costs Develop/Optimize Bridge Preservation Plan** 





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Interactive Maps Dashboards Reporting Hub

SPOTLIGHT Save the Date / Spring Conference

#### **INTERACTIVE MAPS**

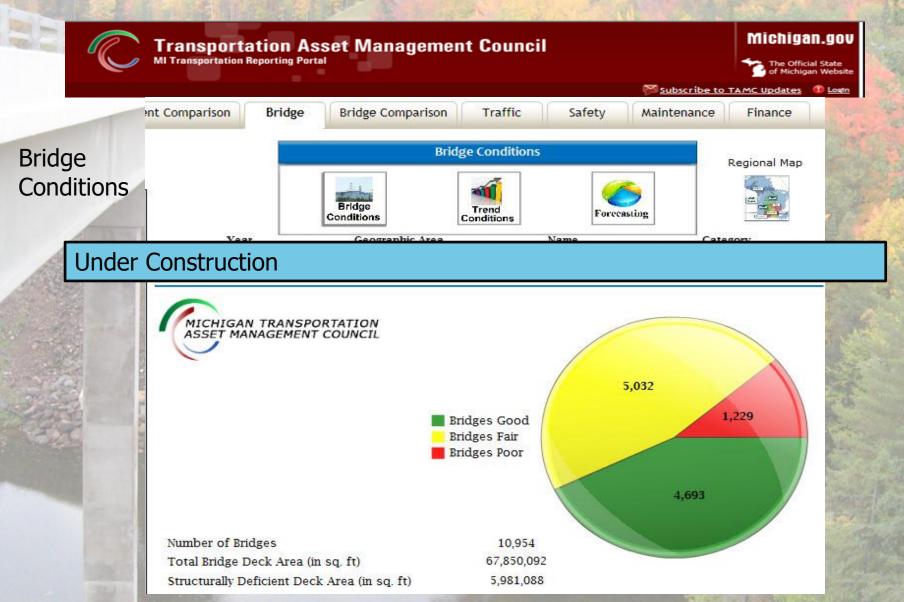
Create an up-to-date road and bridge condition map

DASHBOARDS

Condition, operation, and investment in Michigan's public road system

#### **REPORTING HUB**

Investment Reporting Tool (IRT), Act 51 Distribution and Reporting System (ADARS), Non-Trunkline Federal Aid (NTFA) TRAINING Sponsored Training, support, and education programs





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Interactive Maps Dashboards

Reporting Hub

#### **BRIDGE TRAINING & RESOURCES**

OVERVIEW MATERIALS

TRAINING DATES

Maintaining bridges in good condition has proven to extend service life and to be more cost effective than allowing deterioration to progress, resulting in the need for more extensive and costly rehabilitation or replacement projects. By developing and implementing a comprehensive bridge preservation plan, a local agency can better identify its needs, prioritize its actions, and allocate available funds appropriately. Developing a successful bridge asset management plans requires quality inspection data, an understanding of bridge costs and actions as well as an understanding of asset management principles.

Learn more about Bridge Training & Resources

#### **Bridge Inspection**

Read more 2

Quality bridge inspection data is a key component of an asset management plan as well as a requirement of the National Bridge Inspection Standards. The safety inspection program in Michigan is managed within the Bridge Field Services Section of the Operations Field Services Division of MDOT. The program ensures compliance with the National Bridge Inspection Standards (NBIS) through comprehensive performance of inspection timeliness verifications, annual FHWA NBIS Metric evaluations, inspection team leader qualification appraisals, and quality assurance reviews. Bridge Field Services also develops inspection procedures, responds directly to the FHWA Michigan Division Bridge Engineer, and serves as the recognized resource for all inspection related inquiries.

#### Bridge Management and Scoping

Developing an asset management plan requires identifying appropriate work types for a specific bridge and identifying costs. The bridge management and scoping program is operated by the Bridge Management Unit of MDOT. The program maintains a scoping manual, deck preservation matrices, and cost estimating worksheets. The site also contains studies on the expected service life of structures and information on preservation activities.





#### Michigan Bridge Conference and Pre-Conference Workshop

This workshop will provide bridge engineers. bridge designers, and bridge owners a deeper understanding of bridge inspection reporting requirements, including routine reporting requirements, timeliness of inspections and reporting, new reporting requirements, and Scour Action Plan-development, use, and documentation. The morning sessions will provide overviews of quality control/quality assurance, inspection reporting requirements, and risk based inspections. The second half of the workshop will include non-destructive evaluation, Michigan-bridge updates, and safety issues. The conference will provide information on a variety of bridge topics including FHWA, MDOT, TAMC and Local Agency Program updates, Bridge Case Studies, current research, SHPO and historic bridges, and working with threatened and endangered species.

Read more

## **Regional Bridge Council Meetings**

### Financial and Program Update

Bay Region: May 6<sup>th</sup> @ 10:00am, Genesee CRC Grand Region: May 9<sup>th</sup> @ 10:00am, Ottawa CRC Metro Region: April 27<sup>th</sup> @ 10:00am, St. Clair CRC North Region: April 21<sup>st</sup> @ 10:00am, MDOT Gaylord Office Southwest Region: May 2<sup>nd</sup> @ 10:00am, Van Buren CRC Superior Region: April 22<sup>nd</sup> @ 8:30am, Marquette CRC University Region: May 11<sup>th</sup> @ 9:00am, Ingham CRC

## Bridge Unit Staff

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# **Questions**?

