Project Letting Summary

FY 2015

- 97 Local Bridge Projects Let to Contract: Total = $66 million
- 101 Total Projects = $68 million
Project Letting Summary

- **FY 2015**
  - 97 Local Bridge Projects Let to Contract: Total = $66 million
  - 101 Total Projects = $68 million

- **FY 2016 (As of March 1\textsuperscript{st})**
  - 53 Local Bridge Projects = $31 million
  - April Advertised Projects
    - 3 Local Bridge Projects = $2 million

Waiting on Federal Funds from FAST Act
2016 Call For Applications

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

- **Deadline – May 2, 2016**
2015 Call For Applications

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

- **Deadline – May 2, 2016**

- “Call For Projects” Location: [www.michigan.gov/mdot](http://www.michigan.gov/mdot), Doing Business, Local Agency Program, Bridge Program, Call For Projects
Call For Applications

- 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
Call For Applications

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- PM’s selected by RBC consensus – Not by Points
Call For Applications

Application Estimates:

- General Estimate: Replacements
  - Rural: $300/sft of Proposed Deck Area
  - Urban: $320/sft 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”
Call For Applications

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
Call For Applications

- **Application Keynotes**
  - Cost Estimate Worksheets updated: 12-11-15
  - Cost increases for several items of work
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  - 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
Call For Applications

- 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
Call For Applications

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

- 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 Attention!
Examples of Local PM
Examples of Local PM
Examples of Local PM
Examples of Local PM
Examples of Local PM
Examples of Local PM
Examples of Local PM
Examples of Local PM
Local Bridge Funding

- Local Bridge Program
  - Federal Funds
    - Off-System federal bridge funds
    - $18.4 million
  - State Funds
    - ½ 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

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  - 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
Design - QC/QA

- FHWA and MDOT review of Local design consultant QC/QA
- Establish Bridge Design QC/QA
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- FHWA and MDOT looking at Programmatic review of all bridge designs.
Design - QC/QA
Bridge Asset Management

- 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

- 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 Asset Management

- 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
Bridge Asset Management
Bridge Asset Management

Michigan Transportation Asset Management Council

Home Training Support About Us
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

http://webuat.mcg.state.mi.us/tamc/#/
Bridge Asset Management

Bridge Conditions

Under Construction

<table>
<thead>
<tr>
<th>Type</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bridges Good</td>
<td>5,032</td>
</tr>
<tr>
<td>Bridges Fair</td>
<td>1,229</td>
</tr>
<tr>
<td>Bridges Poor</td>
<td>4,693</td>
</tr>
</tbody>
</table>

- Number of Bridges: 10,954
- Total Bridge Deck Area (in sq. ft): 67,850,092
- Structurally Deficient Deck Area (in sq. ft): 5,981,088
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 Asset Management

Bridge Inspection

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.

Read More

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.

Read More

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