Local Agency Bridge Program
(2020) 2021 Bridge Conference
Summary of 2020 (2021?)

MIND BLOWN
Local Bridge Condition

Bridge Conditions – Good and Bad News

- Bad News (2019 Annual TAMC Report)
  - 12.6% of local bridges statewide have worsened
  - Only 5.0% improved

- Local Bridge Condition
  - 44% Fair
  - 8% Poor
  - 6% Severe
Local Bridge Condition

- 921 Bridges in Poor/Serious/Critical
- 520 are Poor
- 401 are Serious/Critical (Severe)
- 68 bridges across the state are closed

Forecast for Local Bridge Condition is getting worse
Local Bridge Condition

2018: 400 bridges in Serious or Critical condition.

2028: Up to 733 bridges in Serious or Critical condition.
Local Bridge Condition

The “Large” Bridge Issue

Local Agency Big Bridges

- **373** Per the Local Bridge Program policies
  - A Large Bridge is a bridge where the project costs exceed 50% of the allocation for a region in a single year.

- **12** Moveable Bridges

- **143** Complex Bridges
  - Arch-deck filled spandrel, Deck Truss, Thru Pony Truss and Thru Arch Truss Bridges
Local Bridge Condition

The “Large” Bridge Issue

<table>
<thead>
<tr>
<th>Local Agency Big Bridges</th>
<th>$3-5 M per year</th>
<th>$58 M per year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Available for Local Agency Big Bridges</td>
<td>Needed for Local Agency Big Bridges</td>
<td></td>
</tr>
<tr>
<td>Number of LA Big Bridges in Poor Condition</td>
<td>Number of LA Big Bridges in Fair Condition</td>
<td>Number of LA Big Bridges in Good Condition</td>
</tr>
<tr>
<td>$230 M</td>
<td>$838 M</td>
<td>$688 M</td>
</tr>
<tr>
<td>Estimated* Replacement Costs to Repair Poor Bridges</td>
<td>Estimated* Rehabilitation Costs to Repair Fair Bridges</td>
<td>Estimated* Preservation Costs to Maintain Good Bridges</td>
</tr>
</tbody>
</table>
Local Bridge Condition

The “Large” Bridge Issue

- “Large” Bridges that exceed 50% of the Regions funding to replace

- Examples:
  - Miller Road – Wayne County - $50 million
  - W. Spring Lake Road – City of Ferrysburg - $12 million
  - Grosse Ilse Parkway – Wayne County - $100 million
  - 11 other local moveable bridges
Local Bridge Condition

Local Bridge Program: $50 million budget

- 2020 – 426 Applications - $305 million – 6 times budget
- Selected 2020 Call:
  - 21 Replacements
  - 58 Rehabilitation/PM
  - 79 Total Bridges

- Less than 20% approval rate
- 922 Bridges in Poor/Serious/Critical
2020 Local Bridge Funding

Lower traffic counts due to COVID reduced Gas Tax revenue

- 3-Year Est Projection down $7.2 million
- Additional Highway Infrastructure Program (HIP) funds to Michigan $6.7 million (2020) + $2.3 million (2021)
- Offset lost revenue in Local Bridge Program
No Long-Term Funding

Still No Long-Term Funding to supplement the 2015 Road funding

- None of the 2015 funding went to LBP
  - No additional funding
  - Lots of proposals
  - Transportation Commission stated “lame duck” session will see new revenue

- Then COVID-19, funding delayed.......
Local Bridge Condition

- Good News
  - Michigan received $93 million additional funds due to poor bridge condition
  - $24 million will be used for a Local Bridge Bundling Pilot

- Bridge Bundling Pilot
  - All Local Bridges
  - 20 bridges selected
  - Superstructure Replacements
Local Bridge Condition

- 3 Bridges in the pilot were approved for Local Bridge funds
  - $3.5 million to return to Bridge Program
    - Back to Region where bridge located
- Governor proposed $300 M Bridge Bundle
  - Preliminary List of 130 bridges (needs review)
    - County Road Association
    - Bridge Owners
    - LBAB
- Several bridges on list already selected for funds
Local Bridge Condition

Local Bridge Program

- Bridge Bundle Program
  - Reduce Serious/Critical/Closed Bridge
  - Address “Large” local bridges
  - Only way to improve local bridge inventory
  - Goal 90% Good/Fair by ??

- Local Bridge Program
  - Focus more on preserve/maintain
2021 Call For Applications

- Sent out in February to CRA and MML – Call for FY 2024 Construction

- **New Deadline – April 5th, 2021**

- Local Bridge Program Website
  - Call Letter/Instructions
  - Est. Worksheet – Revised (2-1-2021)
  - 2020 Selected Projects for FY 2023
Call For Applications

- List of all submitted applications will be posted on Local Bridge Program website

- By April 21st, 2021

- Check list to verify all applications were received
Call For Applications

- Application limit – **New - No Limit**
- **Only Submit What You Can Fund in FY 2024!**
  - Multiple PM’s still count as 1 Application
    - Bundle for cost effectiveness
  - Good Estimate Range for PM App - $200k-500k
    - PM projects are often underestimated – Be generous
    - Mob and Traffic are often major $ in PM projects
    - Factor in unknowns and small quantities
    - PM projects present higher risks to contractors – Est. accordingly
Tips to Increase Chances for Selection

- Look for additional sources of funding
  - STP, Safety, Economic Development, etc.
- Closed bridges – consider removing bridge and cul-da-sac road.
- Bundling PM applications
- Increase Local Agencies funding share – $4.5 million add. local match in 2020
- Innovative Design, Prefabricated Bridge Elements
Application Selection Notice

- Local Bridge Program Funding
  - ½ Local Bridge Funds are federal off-system
  - ½ Local Bridge Funds are State funds
  - Currently an imbalance of on to off-system projects.
  - Federal waiver expired FY 2020

- FY 2024 Call for Projects: ½ of the Selected Applications will be Off-System
Change To Bridge Application Submission Sheet

LOCAL BRIDGE PROGRAM
CALL FOR APPLICATIONS FUNDING YEAR 2023

NOTE TO USERS: Please be sure that all structure information is correct on your SIA form in MiBridge before submitting your application. Applications received after May 1, 2020 will not be accepted. For assistance, please call Keith Cooper at (517) 335-4526 or Rita Levine at (517) 335-4528.

Instructions: (This form requires Adobe Acrobat Standard or Professional and is not enabled for use in the free Adobe Reader. If you only have access to Adobe Reader, please submit paper documents.)
1. Complete the required application information below.
2. Click on ADD APPLICATION DOCS button to add your signed resolution, cost estimate, map showing structure location and detour route, narrative description of project, bridge inspection documents and photos of the structure.
3. When you have finished, click on SAVE AS to keep a copy for each structure you are submitting.
4. Click on SUBMIT to email your application to MDOT-DetroitAP@michigan.gov

* Multiple structure applications need to be applied for as individual structures and choose “Multiple PM” for “Type of Work”.

APPLICATION INFORMATION (REQUIRED)

Agency Name: 

Structure Number: County: Region: 

Facility Carried: 

Feature Intersected: 

Cost Estimate (Bridge and Approach construction cost): Local Match (If Greater than 5%): 

Type of Work: 

(Local Match (If Greater than 5%): 

(This form requires Adobe Acrobat Standard or Professional and is not enabled for use in the free Adobe Reader. If you only have access to Adobe Reader, please submit paper documents.)
Project Reminders

- **NEPA Certification**
  - National Environmental Policy Act (NEPA) – Form #5323
  - **Recommend 2-6 months prior to Grade Inspection (Plan Review)**
- **Other Items to Avoid Delays**
  - Stakeholder Involvement
  - Utility Coordination/Relocate
  - SHPO
  - Permits – MDOT, ROW, US Army Corp, RR, etc.
  - Geotechnical – One boring per new substructure unit – Replacement
- **See Project Planning Guide/Instructions**
Bridge Asset Management

- Bridge Bundling Asset Management Plans
- Long Term Goals
  - Development of Asset Management plans for all bridges in the bundling program
  - Operate and Maintain contracts for smaller agencies without bridge expertise
  - Proper maintenance over the life of the bridge
  - Goal of uniform Asset Management Plans for all bridges in Michigan
Preserving Roads & Bridges

The Michigan Transportation Asset Management Council (TAMC) is a resource for independent, objective data on the condition of Michigan's roads and bridges and a resource for implementing the concepts of Asset Management.

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

Reporting Hub
Investment Reporting Tool (IRT), Act 51 Distribution and Reporting System (ADARS), Non-Trunkline Federal Aid (NFTA)

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

Training
Sponsored training, support and education programs

Council & Committee Meetings
Meeting dates and approved minutes for the council
Bridge Asset Management

Michigan.gov

Interactive Map

Map Options

- Street
- Aerial
- Hybrid
- County Outlines

Map Layers

- Road Ratings
- Bridge Ratings
- Culverts (Provisional Data)
- Legislative and Other Districts

Download PASER Ratings

[Map Image]
Bridge Asset Management

Culvert Information

- **Location**: S Dewitt Rd
- **Material**: Corrugated Steel Pipe
- **Rating**: 5-Poor
- **Rating Date**: 7/25/2011
- **Shape**: Circular
- **Length**: 62
Bridge Asset Management

Interactive Map

Map Options
- Street
- Aerial
- Hybrid

Map Layers
- Road and Bridge Ratings

Road
- Poor
- Fair
- Good

Bridge
Bridge Asset Management

Interactive Map

Map Options
- Street
- Aerial
- Hybrid

Map Layers
- Road and Bridge Ratings
- Road
- Bridge

Rating
- Poor
- Fair
- Good

State Capitol

Download PASER Ratings
Bridge Asset Management

2019 Local Agency Bridge Condition

- **44%** GOOD
- **6%** FAIR
- **8%** POOR
- **42%** SEVERE

Local Agency Bridges

Figure 13 shows that local agencies are managing both a larger percentage of good bridges, while also managing a larger percentage of poor and severe bridges. While many local agencies are working to embrace preservation strategies but are prevented by the overwhelming need of the bridges in the worst conditions.

A bridge in poor condition is a candidate for major rehabilitation or replacement. When the bridge no longer has the strength to bear the loads for which it was designed, the bridge must be posted for lower loads in order to maintain safety. A bridge in severe condition often needs expensive emergency repairs, temporary supports, or shoulder closures. Ultimately, the inability to obtain funding will result in a safety risk to the public and the bridge must be closed.

At the end of 2019, 58 local agency bridges were closed due to their condition.

Source: 2019 National Bridge Inventory
Regional Bridge Council Meetings

Local Bridge Program Selection Meetings

Spring Region updates will be e-mail

Refer to Local Bridge Program Website for Time and Location of Each Regions

Fall Meeting – In Person/Teams/Both?
Bridge Unit Staff

- **Keith Cooper: Bridge Program Manager**
  - Phone: (517) 331-1395 – Cell Phone

- **Monica Uribe: Project Development Engineer**
  - Phone: (517) 335-4522 – Mark Harrison Retired July 2020

- **Tim Barry: Bridge Staff Engineer**
  - Phone: (517) 275-1751 – Cell Phone

- **Pablo Rojas: Bridge Staff Engineer**
  - Phone: (517) 275-1770 – Cell Phone

- **Rita Levine: Bridge/Rural Staff Engineer**
  - Phone: (517) 335-4528
Questions?