NOTICE OF MEETING

Des Moines Area Metropolitan Planning Organization (MPO)
Transportation Technical Committee

9:30 a.m., Thursday, August 6, 2020
Virtual Meeting
OR Dial 1-312-626-6799, Meeting ID: 890 559 757 21

TENTATIVE AGENDA

1. Call To Order
2. VOTE: Approval of Agenda
3. ROLL CALL
4. VOTE: Approval of Meeting Minutes .................................................................Page 2
   ● Approve the June 4, 2020, meeting minutes.
5. PRESENTATION: Assessing the Ecological State of Fourmile Creek and Walnut Creek ..........Page 5
   ● Dr. Peter Levi of Drake University will give an update on his ongoing research in the Des Moines metro.
6. REPORT and VOTE: FY 2021-2024 Transportation Capital Improvement Program ...............Page 6
   ● Report regarding the upcoming FY 2021-2024 TCIP Report and addition of hazard mitigation projects; consider approval.
7. REPORT: Iowa Clean Air Attainment Program Pre-Applications ........................................Page 7
   ● Report regarding Federal Fiscal Year 2022 Iowa Clean Air Attainment Program applications.
9. REPORT: Upcoming Events ....................................................................................Page 10
10. Other Non-Action Items of Interest to the Committee
11. Next Meeting Date – September 3, 2020, at 9:30 a.m.
ISSUE: Approval of Meeting Minutes

VOTE: Consider approval of the June 4, 2020, MPO Technical Committee meeting minutes.

BACKGROUND:

The minutes of the June 4, 2020, MPO Technical Committee meeting is included on the following pages.

RECOMMENDATION:

Approve the minutes of the June 4, 2020, MPO Technical Committee meeting.

STAFF CONTACT:

Tracey Deckard, tdeckard@dmampo.org
(515) 334-0075
The MPO TTC held a virtual meeting at 9:30 a.m., June 4, 2020. Before the meeting, the MPO staff emailed agenda packets to the TTC representatives and posted the agenda at the MPO office on May 1, 2020.

**Representatives Present:**
John Dostart | City of Altoona  
Mark Mueller | City of Ankeny  
Maggie Murray | City of Bondurant  
Jeff Schug | City of Carlisle  
Jeff May | City of Clive  
John Davis | City of Des Moines  
Steve Naber | City of Des Moines  
Luis Montoya | DART  
Matt Ahrens | City of Grimes  
Dave Wilwerding | City of Johnston  
Tom Lenes | Madison County**  
Luke Parris | City of Norwalk  
Madeline Sturms | City of Pleasant Hill  
Chelsea Huisman | City of Polk City  
Bret VandeLune | Polk County  
Brad Deets | City of Waukee  
Kara Tragesser | City of West Des Moines  
Eric Petersen | City of West Des Moines  
Dalton Jacobus | City of Windsor Heights  
Darla Hugaboom | FHWA  
Andy Loonan | IDOT  
Brooke Ramsey | HIRTA

**Representatives Absent:**
Paul Moritz | City of Ankeny  
Anthony Bellizzi | City of Cumming**  
Al Miller | Dallas County  
Michael Ludwig | City of Des Moines  
Dustin Tieg | City of Elkhart  
Charlie Dissell | City of Indianola**  
Julia Castillo | HIRTA  
Wayne Patterson | City of Mitchellville  
Dave McKay | City of Urbandale  
Joe Herman | City of Van Meter  
David Carroll | Warren County  
Bryan Mulcahy | DSM International Airport  
Mark Bechtel | Federal Transit Administration*  
* Non-Voting, Advisory Representative  
** Non-Voting, Associate Representative

**Staff Present:**
Todd Ashby | Executive Director  
Dylan Mullenix | Assistant Director  
Zach Young | Planning Manager  
Andrew Collings | Principal Planner  
Tracey Deckard | Office Manager  
Gunnar Olson | Communication & Strategy Manager  
Sreyoshi Chakraborty | Senior Planner  
Allison van Pelt | Associate Planner  
Zhi Chen | Associate Planner  
Tanvi Halde | Intern  
Aspen Pflanz | Intern

**Others Present:**
Clifford Leonard | Public
1. **Call to Order**
   MPO TTC Chair recognized a quorum and called the June 4, 2020, meeting to order at 9:32 a.m.

2. **Approval of Agenda**
   **MOTION:** A motion was made and seconded to approve the MPO TTC’s meeting agenda.
   **MOTION CARRIED UNANIMOUSLY**

3. **ROLL CALL**

4. **Approval of Meeting Minutes**
   **MOTION:** A motion was made and seconded to approve the MPO TTC May meeting minutes as amended.
   **MOTION CARRIED UNANIMOUSLY**

5. **Presentation: Dart and Covid-19 Stimulus Package**
   Luis Montoya from DART presented.

6. **Draft FFY 2021-2024 Transportation Improvement Program (TIP)**
   Staff presented. Recommend approval of the draft Federal Fiscal Years 2021-2024 Transportation Improvement Program and forward to the Iowa DOT for their review.
   **MOTION:** A motion was made and seconded to approve the draft Transportation Improvement Program.
   **MOTION CARRIED UNANIMOUSLY**

7. **Mobilizing Tomorrow Amendment**
   Staff presented. Report and discussion only.

8. **Upcoming Events**
   Information only.

9. **Other Non-Action Items of Interest to the Committee**
   Executive Director presented the draft Excess STBG Policy for discussion and comments. Additional discussion regarding new transportation bill.

10. **Next Meeting Date**
    The next meeting will be held at 9:30 a.m., on Thursday, July 2, 2020 via remote access.

11. **Adjournment**
    **MOTION:** A motion was made and seconded to adjourn the MPO TTC’s June 4, 2020 meeting; the TTC Chair adjourned the meeting at 10:10 a.m.
    **MOTION CARRIED UNANIMOUSLY**
ISSUE: Assessing the Ecological State of Fourmile Creek and Walnut Creek

PRESENTATION: Discussion of Drake University’s research on Fourmile and Walnut Creek through collaboration with metro Watershed Management Authorities

BACKGROUND:

Dr. Peter Levi, Assistant Professor in the Department of Environmental Science and Sustainability at Drake University, has been leading a research effort to study the water quality and stream health of Fourmile Creek and Walnut Creek in collaboration with their respective Watershed Management Authorities. With funding support from local municipalities and organizations, Peter and several Drake undergraduates have been visiting three locations in each stream to assess their condition as they flow through agro-urban watersheds. The locations reflect the different landscapes in each watershed, from agriculture to suburban and urban. The team has been collecting data on the physical, chemical, and biological aspects of these streams every one to two weeks since June 2019 to provide baseline data on these locations and quantify improvements to stream health following conservation work in the watershed or restoration of the stream itself.

RECOMMENDATIONS:

None. Presentation only.

STAFF CONTACT:

Allison van Pelt, avanpelt@dmampo.org
(515) 334-0075
ISSUE: FY 2021-2024 Transportation Capital Improvement Program

REPORT and VOTE: Report regarding the Final FY 2021-2024 Transportation Capital Improvement Program and the addition of hazard mitigation projects.

BACKGROUND:

Staff collected and analyzed data for the FY 2021-2024 Transportation Capital Improvement Program (TCIP). Hazard mitigation projects were included in this year's report in addition to the standard Roads/Parking Lots, Traffic Safety, Intersections, Bridges, Pedestrian/Streetscape, Trails, Water Trails, and Transit projects. The report and interactive map of the projects will be available to the public on the MPO's website soon.

The Final FY 2021-2024 Transportation Capital Improvement Program will be provided prior to the meeting.

RECOMMENDATIONS:

Recommend approval of the FY 2021-2024 Transportation Capital Improvement Program Report.

STAFF CONTACT:

Aspen Pflanz, apflanz@dmampo.org; (515) 334-0075
ISSUE: Iowa’s Clean Air Attainment Program Applications

REPORT: Report on Federal Fiscal Year 2022 Iowa Clean Air Attainment Program applications.

BACKGROUND:

Pre-applications for Federal Fiscal Year 2022 Iowa Clean Air Attainment Program applications were due on July 28, 2020. Staff will provide an overview of the pre-applications at the August meeting.

The ICAAP Schedule moving forward is as follows:

- **August 2020** – Pre-Application presented to the Transportation Technical, Executive, and Policy Committee’s for review.
- **September 2020** – Pre-Applications are presented to Technical, Executive, and Policy Committee’s for approval and ICAAP resolutions are forwarded to project sponsor to include in the final application to the Iowa Department of Transportation.
- **October 1, 2020** – Project sponsors submit their application to the Iowa Department of Transportation (sponsors are required to send an electronic copy of final application to the MPO staff).

A list of the submitted FFY 2022 ICAAP pre-applications is included on the following page.

RECOMMENDATION:

None. Report and discussion only.

STAFF CONTACTS:

Zach Young, zyoung@dmampo.org; (515) 334-0075.
<table>
<thead>
<tr>
<th>Primary Sponsor</th>
<th>Project Title</th>
<th>Project Description</th>
<th>Total Estimated Project Cost</th>
<th>ICAAP Funding Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>Des Moines</td>
<td>Traffic Signal Timing Updates - Phase 4</td>
<td>This project is the fourth phase of a multi-phase effort to review and update the signal timing and phasing of the traffic signal systems throughout Des Moines.</td>
<td>$250,000</td>
<td>$200,000</td>
</tr>
<tr>
<td>Norwalk</td>
<td>Norwalk Traffic Signal System Enhancement Project</td>
<td>As identified in a 2018 joint City/Iowa DOT IA 28 Corridor Study, this project will update the existing signals in the City of Norwalk along IA 28 and result in an interconnected system for management and resulting in reduced delay and pollutants. The first step in this project will be a systems engineering study (following guidelines by the Federal Highway Administration) to objectively determine the necessary enhancements to the City traffic signal system. This study will review the potential strategies such as implementing either adaptive traffic signal control, use of automated traffic signal performance measures, or a stepped approach to determine where adaptive control would be best utilized. Following the study, the identified traffic signal system components will be designed and implemented. It is expected this system will include updated controllers and ATC signal cabinets, updated vehicle detection, intersection and system software to monitor performance measures, intersection observation cameras, and fiber optic interconnect.</td>
<td>$870,000</td>
<td>$695,000</td>
</tr>
<tr>
<td>DART</td>
<td>Route 17 Extension to Bondurant</td>
<td>DART plans to extend the existing Route 17 from the current terminus (Outlets of Des Moines) in Altoona to the new Amazon facility located at 1st Ave N. / NE 62nd Ave in Bondurant. The facility is slated to employ 1,000 people and DART will match transit service with Amazon employee shift times resulting in the addition of four additional daily roundtrips.</td>
<td>$80,000</td>
<td>$50,743</td>
</tr>
<tr>
<td>Altoona</td>
<td>1st Ave. and 9th St. Roundabout and Shared Use Path</td>
<td>Converting the intersection at 1st Ave. N and 9th St. NW to a roundabout and adding a shared use path along 1st Ave. N.</td>
<td>$3,938,710</td>
<td>$1,969,355</td>
</tr>
<tr>
<td>Ankeny</td>
<td>IA 160 / SW Oralabor Road and IA 415 / SW State Street Intersection Improvements</td>
<td>Concept design includes the construction of dual left turn lanes for the northbound, eastbound, and southbound approaches as well as the addition of right turn lanes for the westbound and southbound approaches. Project also includes the replacement of the existing traffic signal equipment at the intersection and upgrade of pedestrian ramps and crossings.</td>
<td>2,200,000</td>
<td>1,100,000</td>
</tr>
<tr>
<td>Grimes</td>
<td>Traffic Signal Network Implementation</td>
<td>Project will install fiber optic cable and conduit along IA Hwy 141 from E First St to Beavercrooke Blvd, along Beavercrooke Blvd from IA Hwy 141 to N James St, and along SE 37th St from Gateway Dr to S James St. Project will also implement a signal management software allowing the City to remotely monitor and update traffic signal operations. System will include automated signal performance measures to record traffic volumes and operational performance. Project will also install traffic monitoring cameras at select locations to be able to monitor operations.</td>
<td>$400,000</td>
<td>$320,000</td>
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</table>
ISSUE: Des Moines Area MPO 2019 Travel Time Reliability and Freight Reliability Report


BACKGROUND:

In May 2017, the Federal Highway Administration (FHWA) released the final rulemaking on performance measures that State Departments of Transportation’s (DOTs) and Metropolitan Planning Organizations (MPOs) will report for system performance on the Interstate and non-Interstate National Highway System (NHS) for the National Highway Performance Program (NHPP) and for freight performance on the Interstate system for the National Highway Freight Program (NHFP).

The measures related to system and freight performance are:

- **System Performance**
  - Percent of Reliable Person-Miles Traveled on the Interstate
  - Percent of Reliable Person-Miles Traveled on the Non-Interstate NHS

- **Freight Performance**
  - Percent of Interstate System Mileage Providing for Reliable Truck Travel Time (Truck Travel Time Reliability Index)

<table>
<thead>
<tr>
<th>Performance Measure</th>
<th>2019</th>
<th>Five-Year Target</th>
<th>Performance 2017-2021</th>
<th>2050 Target</th>
<th>Performance</th>
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</thead>
<tbody>
<tr>
<td>Percent of Person Miles Traveled on Interstate that are Reliable</td>
<td>97.6</td>
<td>100</td>
<td>✓</td>
<td>95</td>
<td>✓</td>
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<tr>
<td>Percent of Person Miles Traveled on Non-Interstate NHS that are Reliable</td>
<td>94.3</td>
<td>66</td>
<td>✓</td>
<td>75</td>
<td>✓</td>
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<tr>
<td>Interstate Truck Travel Time Reliability Index</td>
<td>1.33</td>
<td>1.28</td>
<td>✓</td>
<td>1.28</td>
<td>✗</td>
</tr>
</tbody>
</table>

RECOMMENDATIONS:

None. Report and discussion only.

STAFF CONTACT:

Zhi Chen, zchen@dmampo.org
(515) 334-0075
ISSUE: Upcoming Events

REPORT: Report on upcoming events of regional interest.

BACKGROUND:

Staff will highlight upcoming events, trainings and other opportunities of interest to representatives of MPO member governments.

RECOMMENDATION:

None. Report and discussion only.

STAFF CONTACT:

Gunnar Olson, golson@dmampo.org;
(515) 334-0075