TAMP 2022 Work Plan

October 2020

On April 30th, 2018 MnDOT submitted a draft Transportation Asset Management Plan (TAMP). The Minnesota FHWA division office reviewed the draft TAMP and provided a certification on July 26th, 2018. Federal legislation requires MnDOT to submit our next TAMP four years after this certification. TAMP 2022 must be submitted to Minnesota’s FHWA division office no later than July 26th, 2022.

The TAMP is a tool to help MnDOT manage its transportation infrastructure with the objective of delivering an agreed upon standard of service. It helps establish a consistent and transparent statewide approach to planning, programming, and managing physical assets. Using it as a guide, MnDOT is able to more thoroughly analyze life-cycle costs, evaluate risks, develop mitigation strategies, establish asset condition performance measures and targets, and develop investment strategies.

# Overview

The 2018/2019 TAMP included 12 assets (pavements, bridges, highway culverts, deep storm water tunnels, overhead sign structures, high-mast light tower structures, signals, lighting, pedestrian infrastructure, ITS, Noise Walls, and buildings). The 2022 TAMP will include conducting the entire planning process again to develop information for all assets. It will also incorporate feedback from FHWA and MnDOT, TAMP Implementation Workshop, Asset Management Strategic Implementation Plan, TAMP Risk Process Review, additional research study results, outcomes from peer exchanges and trainings, and will be enhanced with additional best practices. Results will inform current and established planning and management efforts (i.e. MnSHIP).

The 2022 TAMP will include the following key information:

* Existing Asset Management Planning and Programming Framework
* Inventory, condition, performance, and targets of assets
* Risk-based analysis
* Identification of lower cost strategies for managing assets through their life-cycle
* Investment scenarios for both capital needs and operations and maintenance budgets for assets
* Identification of data needs and research moving forward

# Managing Development

Development will be led by Shannon Foss from the Office of Transportation System Management. Other members of the Project Management Team (PMT) will include Brad Utecht, Joe Widing, and Josh Pearson.

# Development Timeframe

Below is the schedule outlining anticipated key dates for updating the TAMP from draft to final. The schedule will be updated according to direction from the PMT, AMSC, and TAMPAG.

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| **Month** | **Key Activities** |
| November 2020 | * Develop scope and project schedule * Identify roles and responsibilities * Create TAMP 2022work plan * **Project Management Team Meeting** * **FHWA/MnDOT Meeting** |
| December 2020 | * Meet with PRIA to develop risk process * **TAMP Advisory Group Kickoff Meeting** * **Project Management Team Meeting** * **FHWA/MnDOT Meeting** |
| January 2021 | * **Approve final scope** * **Project Management Team Meeting** * **FHWA/MnDOT Meeting** |
| February 2021 | * **TAMP Workgroup Meetings**   + Overview and Background Information * **Project Management Team Meeting** * **FHWA/MnDOT Meeting** |
| March 2021 | * Life Cycle Planning Work Group * **TAMP Workgroup Meetings**   + Asset inventory and condition   + Work completed since last consistency determination * **Project Management Team Meeting** * **TAMPAG Meeting** * **FHWA/MnDOT Meeting** |
| April 2021 | * Life Cycle Planning Work Group * **TAMP Workgroup Meetings**   + Performance measures and targets * **Project Management Team Meeting** * **TAMPAG Meeting** * **FHWA/MnDOT Meeting** |
| May 2021 | * Life Cycle Planning Work Group * **TAMP Workgroup Meetings**   + Risk analysis * **Project Management Team Meeting** * **TAMPAG Meeting** * **FHWA/MnDOT Meeting** |
| June 2021 | * Life Cycle Planning Work Group * **TAMP Workgroup Meetings**   + Risk analysis (continued)   + Life cycle planning * **Project Management Team Meeting** * **TAMPAG Meeting** * **FHWA/MnDOT Meeting** |
| July 2021 | * Life Cycle Planning Work Group * **TAMP Workgroup Meetings**   + Life cycle planning (continued) * **Project Management Team Meeting** * **TAMPAG Meeting** * **FHWA/MnDOT Meeting** |
| August 2021 | * Life Cycle Planning Work Group * Life Cycle Planning Analysis * **TAMP Workgroup Meetings**   + Performance gap analysis * **Project Management Team Meeting** * **TAMPAG Meeting** * **FHWA/MnDOT Meeting** |
| September 2021 | * Life Cycle Planning Work Group * Life Cycle Planning Analysis * **TAMP Workgroup Meetings**   + Performance gap analysis (continued) * **Project Management Team Meeting** * **TAMPAG Meeting** * **FHWA/MnDOT Meeting** |
| October 2021 | * ER Event Analysis * Financial Analysis * **TAMP Workgroup Meetings**   + Financial planning and investment strategies * **Project Management Team Meeting** * **TAMPAG Meeting** * **FHWA/MnDOT Meeting** |
| November 2021 | * ER Event Analysis * Financial Analysis * **TAMP Workgroup Meetings**   + Financial planning and investment strategies (continued)   + Implementation and next steps * **Project Management Team Meeting** * **TAMPAG Meeting** * **FHWA/MnDOT Meeting** |
| December 2021 | * Develop Risk Workshop * Develop Target Workshop * **TAMP Workgroup Meetings**   + Implementation and next steps (continued) * **Project Management Team Meeting** * **TAMPAG Meeting** * **FHWA/MnDOT Meeting** |
| January 2022 | * Conduct Risk Workshop * Conduct Target Workshop * **Project Management Team Meeting** * **TAMPAG Meeting** * **FHWA/MnDOT Meeting** |
| February 2022 | * TAMP writing/editing * **Project Management Team Meeting** * **TAMPAG Meeting** * **FHWA/MnDOT Meeting** |
| March 2022 | * TAMP writing/editing * **Project Management Team Meeting** * **FHWA/MnDOT Meeting** |
| April 2022 | * TAMP writing/editing * IPU Draft Review * MnDOT Draft Review * **Project Management Team Meeting** * **FHWA/MnDOT Meeting** |
| May 2022 | * TAMP writing/editing * IPU Final Review * MnDOT Final Review * AMSC, TPIC, SLT, and ELT Approval * **Project Management Team Meeting** * **FHWA/MnDOT Meeting** |
| June 2022 | * Final TAMP * **Project Management Team Meeting** * **FHWA/MnDOT Meeting** |
| July 2022 | * July 26th, Final TAMP Submittal |
| Ongoing tasks | * Project Management Team meetings   + Monthly * TAMPAG meetings   + Monthly or as needed   + Review progress and provide direction * AMSC meetings   + Monthly – will solicit direction, as needed * Weekly IPU Check-in * Address MnDOT and FHWA comments from previous TAMP * Incorporate recommendations from TAMP Implementation workshop, TAMP Risk Process Review, and AMSIP * Incorporate research studies, peer exchange outcomes, and identified best practices * Enhance visuals * Communication and Implementation Plan * Document Reorganization * Project communications, as needed * Informal task specific meetings and follow-up |

# Participants

The final TAMP will be developed through the cooperative efforts of several committees and work groups as described below.

## Asset Management Steering Committee (AMSC)

The Asset Management Steering Committee is responsible for the development, updates and monitoring of the enhancements outlined in the TAMP, and oversight of Transportation Asset Management System development and other asset management initiatives. The Committee is also responsible for ensuring that the asset management principles promoted in the TAMP are fully embraced at all levels of the agency to help ensure that the anticipated performance outcomes are met.

**Champions**

* Jay Hietpas, *Assistant Commissioner, Operations*
* Mark Gieseke, *Assistant Commissioner, Engineering Services*
* Tim Henkel, *Assistant Commissioner, Modal Planning & Program Management*

**Members**

* Chris Roy, *Assistant Division Director, Operations*
* Dave Solsrud, *Committee Chair, Asset Management Program Office Manager*
* Jean Wallace, *Assistant Division Director, Modal Planning & Program Management*
* Jed Falgren, *State TSMO Director*
* Kyle Lake, *Assistant District Engineer, District 6, Maintenance Business Management Team Chair*
* Peter Eakman, *Asset Management Engineer, Federal Highway Administration*
* Philip Schaffner, *Program Manager, Statewide Planning and Data Analysis, Office of Transportation System Management*
* Steve Lund, *Acting State Maintenance Engineer*
* Todd Stevens, *Maintenance and Operations Engineer, Metro District*

**Support staff**

* Brad Utecht, *Investment Planning Director, Office of Transportation System Management*
* Michael Cremin, *Asset Management Engineer, Asset Management Program Office*
* Shannon Foss, *Asset Management Planning Director, Office of Transportation System Management*

## TAMP Advisory Group (TAMPAG)

The purpose of this group is to provide technical advice, strategic direction, and feedback during the TAMP update process. This group serves as more of the technical project management role.

(Mark Panek suggested we ask MBMT which AME’s would want to be on the committee, Trisha suggested we add members from pavements and bridges)

* Brian Sorenson, *Traffic Engineering (Central Office)*
* Dave Solsrud, *Asset Management Program Office (Central Office)*
* David Hedeen*, Asset Management Engineer (Bridge Office)*
* Glenn Engstrom*, Pavement Engineer (Materials Office)*
* Michael Cremin, *Asset Management Program Office (Central Office)*
* Mike Ginnaty, *Operations (District 3)*
* Mike Leegard*, Operations (Metro)*
* Molly McCartney/Shaker Rabban, *Planning (Metro)*
* Perry Collins, *Operations (District 1)*
* Peter Eakman, *Asset Management (Federal Highway Administration)*
* Philip Schaffner, *Transportation System Management (Central Office)*
* Steve Voss, *Planning (District 3)*
* Trisha Stefanski, *Asset Management Program Office (Central Office)*

## Work Groups

Work Groups were developed around each asset type. These groups consist of individuals from various MnDOT districts and specialty offices that have an intimate knowledge of each asset. They will assist in documenting current practices in terms of risk management, life-cycle costs considerations, gap identification, and financial planning. The groups will also provide the information and data needed to develop the TAMPasset folios and addendum.

### Pavements

* Cody Brand*, Materials (District 8)*
* Curt Turgeon, *Pavement Section (Materials Office)*
* Dave Janisch, *Pavement Management (Materials Office)*
* Dave Solsrud*, Asset Management Program Office Manager (Central Office)*
* Glenn Engstrom, *Materials & Road Research Director (Materials Office)*
* Greg Ous*, District Engineer (District 7)*
* Joshua Pearson*, Investment Planning Unit (Central Office)* **Workgroup Lead**
* Mark Panek, *Operations (District 6)*
* Melissa Cole, *Pavement Management (Materials Office)*
* Peter Eakman, *Asset Management Engineer (FHWA)*
* Thomas Meath, *Materials (District 6)*

### Bridges

* Dave Solsrud*, Asset Management Program Office Manager (Central Office)*
* David Hedeen, *Inventory Management (Bridge Office)*
* Edward Lutgen, *Construction and Maintenance (Bridge Office)*
* Joe Kordosky, *Planning (Bridge Office)*
* Josh Pearson, *Investment Planning Unit (Central Office)* **Workgroup Lead**
* Kevin Western, *State Bridge Engineer (Bridge Office)*
* Mitch Webster, *Programming & Performance Management (Central Office)*
* Nicole Bartelt*, Planning and Hydraulics (Bridge Office)*
* Peter Eakman, *Asset Management Engineer (FHWA)*
* Sarah Sondag*, Operations (Bridge Office)*

### Buildings

* Chris Moates, *Building Services (Central Office)*
* David Jones, *Building Services (Central Office)*
* Joe Widing, *Investment Planning (Central Office)* **Workgroup Lead**
* Steve Wondrasch*, Building Services (District 6)*
* Mark Panek, *Operations (District 6)*
* Mark Pavelich, *Facilities (Metro)*
* Michael Ligday, *Building Services (Central Office)*
* Pat Osborn, *Commercial Vehicle Operations (Central Office)*
* Robert H Williams, *Safety Rest Areas (Central Office)*
* Tiffany Dagon*, Building Services (Central Office)*

### Culverts/Deep Stormwater Tunnels

* Andrea Hendrickson, *Hydraulics Engineer (Bridge Office)*
* Beth Neuendorf, *Water Resources (Metro)*
* Brad Utecht, *Investment Planning Unit (Central Office)* **Workgroup Lead**
* Bridget Miller, *Program Development (District 4)*
* Chase Fester, *Maintenance (District 7)*
* Dave Solsrud*, Asset Management Program Office Manager (Central Office)*
* Erik Brenna, *Hydraulics (Bridge Office)*
* Isaac Kinuthia, *Hydraulics Engineer (District 8)*
* Kellie Thom, *Hydraulics (Bridge Office)*

### Noise Walls

* Brad Utecht, *Investment Planning (Central Office)* **Workgroup Lead**
* Duane Green, *Maintenance (Metro)*
* Joe Black, *Design (Bridge Office)*
* Mitch Webster, *Programming & Performance Management (Central Office)*
* Natalie Ries, *Operations (Metro)*
* Peter Wasko*, Environmental Stewardship (Central Office)*
* Trisha Stefanski/Doug Maki, *Operations (Metro)*

### Overhead Sign Structures/High-Mast Tower Lighting

* Eric Evens*, Inventory Management (Bridge Office)*
* Jihshya Lin, *Construction and Maintenance (Bridge Office)*
* Joe Widing*, Investment Planning Unit (Central Office)* **Workgroup Lead**
* John Pedersen, *Traffic Lighting Construction (Metro)*
* Josephine Tayse, *Traffic Engineer (Traffic Engineering)*
* Scott Theisen, *Inspection (Bridge Office)*
* Steven Misgen, *Traffic Engineer (Metro)*
* Susan Zarling*, Traffic Signals & Lighting Engineer (Traffic Engineering)*
* Trisha Stefanski/Michael Cremin, *Asset Management Program Office (Central Office)*

### Traffic Signals & Lighting

* Cory Johnson, *Engineer (CAV-X)*
* Joe Widing, *Investment Planning (Central Office)* **Workgroup Lead**
* Linda Heath, *ESS (Central Office)*
* Mike Fairbanks, *Traffic Engineering (Metro)*
* Mike Gerbensky, *Traffic Engineering (Metro)*
* Mitch Webster, *Programming & Performance Management (Central Office)*
* Ray Starr, *Traffic Engineering (Central Office)*
* Scott Theisen, *Inspection (Bridge Office)*
* Steve Misgen, *Traffic Engineering (Metro)*
* Sue Zarling, *Traffic Engineering, (Central Office)*
* Tara Olds, *Engineer (CAV-X)*
* Trisha Stefanski/Doug Maki, *Operations (Metro)*
* *Greater MN rep (D1 or D2?)*

### ITS Infrastructure

* Brian Kary, *Director (RTMC)*
* Cory Johnson, *Engineer (CAV-X)*
* Joe Huneke, *Maintenance* *(Central Office)*
* Josh Kuhn, *Transportation Data & Analysis (Central Office)*
* Josh Pearson, *Investment Planning (Central Office)* **Workgroup Lead**
* Linda Heath, *ESS (Central Office)*
* Michael Schweyen, *Traffic (District 6)*
* Mitch Webster, *Programming & Performance Management (Central Office)*
* Ralph Adair, *Traffic (RTMC)*
* Ray Starr, *Traffic Engineering (Central Office)*
* Steve Misgen, *Traffic Engineering (Metro)*
* Tara Olds, *Engineer (CAV-X)*
* Terry Haukom, *Traffic (RTMC)*
* Trisha Stefanski/Michael Cremin, *Asset Management Program Office (Central Office)*

### Pedestrian Assets

* Alex Stoiaken, *Office of Transit and Active Transportation (Central Office)*
* Amber Dallman, *Office of Transit and Active Transportation (Central Office)*
* Brad Utecht, *Investment Planning (Central Office)* **Workgroup Lead**
* Chris Kufner*, State Aid Engineer (Central Office)*
* Ed Sanderson, *Transit (Metro)*
* Paul Konickson*, Maintenance Engineer (District 2)*
* Kristie Billiar, *ADA Policy (Central Office)*
* Mitch Webster, *Programming & Performance Management (Central Office)*
* Sara Dunlap*, ADA Planning (Central Office)*
* Todd Grugel, *ADA Program (Central Office)*
* Trisha Stefanski/Doug Maki, *Operations (Metro)*

### Life Cycle Planning

* Chase Fester, *Superintendent (District 7)*
* Dave Solsrud*, Asset Management Program Office Manager (Central Office)* **Workgroup Lead**
* David Hedeen, *Asset Management Engineer (Bridge Office)*
* Doug Maki, *Operations (Metro)*
* John Bieniek*, Maintenance and Operations (Metro)*
* Melissa Cole, *Pavement Management (Materials Office)*
* Michael Ligday, *Building Services (Central Office)*
* Mitch Webster, *Programming & Performance Management (Central Office)*
* Peter Eakman, *Asset Management Engineer (FHWA)*
* Ray Starr, *Traffic Engineering (Central Office)*
* Tim Lee, *Director of Electronic Communications*
* Trisha Stefanski, *Asset Management Program Office (Central Office), Operations (Metro)*