
Work Package Dictionary

July 1, 2019

Forward

Purpose

This document provides information and guidance on standard Work Packages useful for assembly of a project schedule. These Work Packages should be considered as templates when initially incorporating into project schedules and modified to fit the needs of a Project.

Process

Usage of these Work Packages and guidance occurs jointly through communication between Project Managers, Functional Group Managers, Resource Managers, and Project Management Support staff. This communication identifies the components needed to assemble a plan for delivery of a Project. Generally, a Project Manager will identify those areas for inclusion based upon a complete scope developed for a project. District templates will be utilized for work specific to a District, Functional/Resource Group templates will be utilized for work specific to those areas. Authority to change needs and requirements for specific work packages will reside with the group responsible for the delivery of that particular work. Modification of work packages without direct communication and concurrence from areas outside of ownership areas will not occur.

Usage

This Work Package Dictionary will work to meet the objective of providing general definitions of work required to provide specific deliverables. Work Package definitions will provide the following information:

- Work Package Name (WBS Name)
Identifiable naming that aligns with nomenclature to define general work performed or delivered.
- WBS Code
Code used in documentation to uniquely identify/differentiate work packages.
- Work Package ID
Code used in scheduling program to uniquely identify/differentiate work packages.
- Organization (Work Package Owner)
Departmental office responsible for delivery of the work contained in a work package.
- Functional Group (Deliverable Owner)
Functional area within the Organization responsible for delivery of the work contained in a work package.
- Threshold Criteria
Discussion on when a particular work package is to be included in a project schedule/plan.
- Prerequisites
A complete list of all deliverables required to successfully complete all activities within a work package.
- Deliverable
Deliverable product/work that is provided by the specified work package.
- Notes
Complimentary notes for a work package that provides additional useful information on the use or requirements of a work package.

Guidance

Assembly of a schedule is the assembly of a plan for the successful delivery of a project. All relevant stakeholders need to be validated and the limits of their work respected to ensure the success of the Project and the Program.

Finally, a schedule is a tool to identify when to open communication to others on a Project. A schedule is not the communication, but a means to inform when to communicate and work on a portion of a project.

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Environmental Work Packages

WBS Name: Early Notification Memo

WBS: WBS_F.3.1

WBS Hierarchy: Environmental

Work Package ID: TMPL3006

Organization: Office of Environmental Stewardship (OES)

Functional Group: Office of Environmental Stewardship (OES)

Threshold Criteria:

Use:

- All projects.

Prerequisites:

Blank.

Deliverable:

Early Notification Memo and responses from CRU, CMMT, Regulated Materials, DNR, EMTU, T&ES, Vegetation, Bike/Ped, Aeronautics, Rail Office, Value Engineering, COE

Notes:

None

Gantt Chart:

[Early Notification Memo](#)

WBS Name: Cultural Resources - Work Package 1 Full CRU Review

WBS: WBS_F.3.2.1

WBS Hierarchy: Environmental > Environmental Studies

Work Package ID: TMPL1302

Organization: Office of Environmental Stewardship (OES)

Functional Group: Cultural Resources Unit

Threshold Criteria:

Use:

- When the project is receiving federal funds, permits, or licenses.
- This is used with all federal agencies. Use if any of the following are required:
- Tribal investigations;
 - Architectural history investigations;
 - Historical archeology investigations;
 - Geomorphology investigation; and

- Historical properties.

Please Note the durations are highly variable

Prerequisites:

Blank.

Deliverable:

Written SHPO Concurrence (and Memorandum of Agreement, if applicable) is obtained; and if applicable, when Tribal concerns have been addressed

Notes:

None

Gantt Chart:

[Cultural Resources - Work Package 1 Full CRU Review](#)

WBS Name: Cultural Resources - Work Package 2 Abbreviated CRU Review

WBS: WBS_F.3.2.2

WBS Hierarchy: Environmental > Environmental Studies

Work Package ID: TMPL1304

Organization: Office of Environmental Stewardship (OES)

Functional Group: Cultural Resources Unit

Threshold Criteria:

Use:

- Minor/moderate projects.

Prerequisites:

Blank.

Deliverable:

Written SHPO Concurrence (and Memorandum of Agreement, if applicable) is obtained; and if applicable, when Tribal concerns have been addressed

Notes:

None

Gantt Chart:

[Cultural Resources - Work Package 2 Abbreviated CRU Review](#)

WBS Name: Regulatory File Review

WBS: WBS_F.3.2.3

WBS Hierarchy: Environmental > Environmental Studies

Work Package ID: TMPL1305

Organization: Office of Environmental Stewardship (OES)

Functional Group: Contaminated Materials Mgmt Team

Threshold Criteria:

Consult the Contaminated Materials Management Team to determine whether this work package is needed.

Prerequisites:

Blank.

Deliverable:

A summary of the findings of the file review and excerpts from the file reviews are complete. The CMMT may use the regulatory file review to update the ENM response. Additional deliverables resulting from the file review include project Special Provisions

Notes:

For additional guidance see Regulatory File Review in Appendix.

Gantt Chart:

[Regulatory File Review](#)

WBS Name: Environmental Due Diligence 1

WBS: WBS_F.3.2.4

WBS Hierarchy: Environmental > Environmental Studies

Work Package ID: TMPL1306

Organization: Office of Environmental Stewardship (OES)

Functional Group: Contaminated Materials Mgmt Team

Threshold Criteria:

Use (EDD-1):

- All MnDOT and cooperative agreement projects that include MnDOT property transaction(s) (e.g., acquisitions, conveyances, turnbacks, leases/permits, transfers of custodial control, state aid actions, shared facilities, excess acquisition, commissioners orders, and railbank transactions).

Prerequisites:

Blank.

Deliverable:

EDD-1 form

Notes:

For additional guidance see Environmental Due Diligence 1 (EDD-1) in Appendix.

Gantt Chart:

[Environmental Due Diligence 1](#)

WBS Name: Environmental Due Diligence 2

WBS: WBS_F.3.2.5

WBS Hierarchy: Environmental > Environmental Studies

Work Package ID: TMPL1308

Organization: Office of Environmental Stewardship (OES)

Functional Group: Contaminated Materials Mgmt Team

Threshold Criteria:

Use (EDD-2):

- As determined through the EDD-1 review. The CMMT determines if EDD-2 is needed.

Prerequisites:

Blank.

Deliverable:

EDD-2 form

Notes:

For additional guidance see Environmental Due Diligence 2 (EDD-2) in Appendix.

Gantt Chart:

[Environmental Due Diligence 2](#)

WBS Name: Environmental Due Diligence 3

WBS: WBS_F.3.2.6

WBS Hierarchy: Environmental > Environmental Studies

Work Package ID: TMPL1310

Organization: Office of Environmental Stewardship (OES)

Functional Group: Contaminated Materials Mgmt Team

Threshold Criteria:

Use (EDD-3):

- When the EDD-1 and/or EDD-2 indicate that the EDD-3 is needed. The CMMT determines if EDD-3 is needed. The form should be initiated approximately 24 months before the project let date or parcel acquisition (whichever happens first). Sites that require the EDD-3 meet at least of the following criteria: cleanup costs would exceed \$500,000 or 10% of total capital project costs, on-going cleanup is required or there are other regulatory obligations, and/or land uses are high risk (e.g., uncontrolled dumps, federal superfund sites, large-scale manufacturing, etc.).

Prerequisites:

Blank.

Deliverable:

EDD-3 form

Notes:

For additional guidance see Environmental Due Diligence 3 (EDD-3) in Appendix.

Gantt Chart:

[Environmental Due Diligence 3](#)

WBS Name: Environmental Site Assessment (Phase I & II) No Acquisition

WBS: WBS_F.3.2.7

WBS Hierarchy: Environmental > Environmental Studies

Work Package ID: TMPL1314

Organization: Office of Environmental Stewardship (OES)

Functional Group: Contaminated Materials Mgmt Team

Threshold Criteria:

Use:

- If the ENM Response or EDD forms indicate that a Phase I ESA is needed but no property acquisition is required for the project. The CMMT determines when the work package is needed.

Prerequisites:

Blank.

Deliverable:

Report summarizing an environmental review completed to determine recognized environmental conditions (RECs) for the project.

Notes:

For additional guidance see [Environmental Site Assessment \(Phase I & II\)](#) in Appendix.

Gantt Chart:

[Environmental Site Assessment \(Phase I & II\) No Acquisition](#)

WBS Name: Environmental Site Assessment (Phase I & II) Early Acquisition

WBS: WBS_F.3.2.8

WBS Hierarchy: Environmental > Environmental Studies

Work Package ID: TMPL1313

Organization: Office of Environmental Stewardship (OES)

Functional Group: Contaminated Materials Mgmt Team

Threshold Criteria:

Use:

- If the ENM Response or EDD forms indicate that a Phase I ESA is needed and early property acquisition is required for the project. The CMMT determines when the work package is needed.

Prerequisites:

Blank.

Deliverable:

Report summarizing an environmental review completed to determine recognized environmental conditions (RECs) for the project.

Notes:

For additional guidance see [Environmental Site Assessment \(Phase I & II\)](#) in Appendix.

Gantt Chart:

[Environmental Site Assessment \(Phase I & II\) Early Acquisition](#)

WBS Name: Environmental Site Assessment (Phase I & II) Acquisition

WBS: WBS_F.3.2.9

WBS Hierarchy: Environmental > Environmental Studies

Work Package ID: TMPL1312

Organization: Office of Environmental Stewardship (OES)

Functional Group: Contaminated Materials Mgmt Team

Threshold Criteria:

Use:

- If the ENM Response or EDD forms indicate that a Phase I ESA is needed and property acquisition is required for the project. The CMMT determines when the work package is needed.

Prerequisites:

Blank.

Deliverable:

Report summarizing an environmental review completed to determine recognized environmental conditions (RECs) for the project.

Notes:

For additional guidance see [Environmental Site Assessment \(Phase I & II\)](#) in Appendix.

Gantt Chart:

[Environmental Site Assessment \(Phase I & II\) Acquisition](#)

WBS Name: Phase I Update

WBS: WBS_F.3.2.10

WBS Hierarchy: Environmental > Environmental Studies

Work Package ID: TMPL1315

Organization: Office of Environmental Stewardship (OES)

Functional Group: Contaminated Materials Mgmt Team

Threshold Criteria:

Use an ESA Phase I Update if:

- A Phase I ESA was previously completed and an update is necessary for potential regulatory involvement.

Prerequisites:

Blank.

Deliverable:

Updated report summarizing an environmental review completed to determine recognized environmental conditions (RECs) for the project.

Notes:

For additional guidance see Phase I Update in Appendix.

Gantt Chart:

[Phase I Update](#)

WBS Name: Phase II Update

WBS: WBS_F.3.2.11

WBS Hierarchy: Environmental > Environmental Studies

Work Package ID: TMPL1316

Organization: Office of Environmental Stewardship (OES)

Functional Group: Contaminated Materials Mgmt Team

Threshold Criteria:

Use an ESA Phase II Update to:

- Satisfy changing project needs (e.g. a new parcel will be acquired or construction plans change) or to obtain data for liability assurances.

Prerequisites:

Blank.

Deliverable:

Updated report prepared by a consultant, submitted to the CMMTUpdate Report summarizing an environmental review completed to determine recognized environmental conditions (RECs) for the project.

Notes:

For additional guidance see Phase II Update in Appendix.

Gantt Chart:

[Phase II Update](#)

WBS Name: No Association Determination

WBS: WBS_F.3.2.12

WBS Hierarchy: Environmental > Environmental Studies

Work Package ID: TMPL1317

Organization: Office of Environmental Stewardship (OES)

Functional Group: Contaminated Materials Mgmt Team

Threshold Criteria:

Use:

- When liability protection is required for acquisition of a site contaminated with a hazardous substance, pollutant, or contaminant.

Prerequisites:

Blank.

Deliverable:

Letter of determination from the Minnesota Pollution Control Agency (MPCA) or Minnesota Department of Agriculture (MDA) that the specific actions proposed by MnDOT (or LGA) will not associate MnDOT with the identified contamination.

Notes:

For additional guidance see No Association Determination (NAD) in Appendix.

Gantt Chart:

[No Association Determination](#)

WBS Name: Response Action Plans

WBS: WBS_F.3.2.13

WBS Hierarchy: Environmental > Environmental Studies

Work Package ID: TMPL1318

Organization: Office of Environmental Stewardship (OES)

Functional Group: Contaminated Materials Mgmt Team

Threshold Criteria:

Use a Response Action Plan (RAP) if:

- Contamination exists and MnDOT seeks liability protection or seeks approval for reuse of soil that does not qualify as unregulated fill.

Prerequisites:

Blank.

Deliverable:

CMMT submits a RAP report to the MPCA/MDA and receives an approval letter from the MPCA/MDA for the RAP

Notes:

For additional guidance see Response Action Plan (RAP) in Appendix.

Gantt Chart:

[Response Action Plans](#)

WBS Name: Contaminated Materials Management Special Provisions

WBS: WBS_F.3.2.14

WBS Hierarchy: Environmental > Environmental Studies

Work Package ID: TMPL1319

Organization: Office of Environmental Stewardship (OES)

Functional Group: Contaminated Materials Mgmt Team

Threshold Criteria:

Use:

- When special provisions are required to address contaminated materials during construction.

Prerequisites:

Blank.

Deliverable:

Contaminated materials management special provisions

Notes:

For additional guidance see Contaminated Materials Management Special Provisions in Appendix.

Gantt Chart:

[Contaminated Materials Management Special Provisions](#)

WBS Name: Regulated Materials Building

WBS: WBS_F.3.2.15

WBS Hierarchy: Environmental > Environmental Studies

Work Package ID: TMPL1326

Organization: Office of Environmental Stewardship (OES)

Functional Group: Regulated Materials Mgmt Team

Threshold Criteria:

Use:

- When there is a reason to assess the presence of asbestos and other regulated materials that are within a building.

Prerequisites:

Blank.

Deliverable:

Certified as clean for demolition

Notes:

None

Gantt Chart:

[Regulated Materials Building](#)

WBS Name: Regulated Materials Bridge

WBS: WBS_F.3.2.16

WBS Hierarchy: Environmental > Environmental Studies

Work Package ID: TMPL1327

Organization: Office of Environmental Stewardship (OES)

Functional Group: Regulated Materials Mgmt Team

Threshold Criteria:

Use:

- When there is a reason to assess the presence of asbestos and other regulated materials that are within a bridge.

Prerequisites:

Blank.

Deliverable:

Certified as clean for demolition

Notes:

None

Gantt Chart:

[Regulated Materials Bridge](#)

WBS Name: Noise Analysis

WBS: WBS_F.3.2.17

WBS Hierarchy: Environmental > Environmental Studies

Work Package ID: TMPL1328

Organization: Office of Environmental Stewardship (OES)

Functional Group: Outstate: Environmental Modeling & Testing Unit

Metro: Office of Project Documentation

Threshold Criteria:

Level of analysis is dependent upon the project funding type, and if the project meets the definition of a Type I project for noise analysis as per 43 CFR 772.5, (also defined in MnDOT's Noise Policy located on the OES website: <http://www.dot.state.mn.us/environment/noise/index.html>.)

Prerequisites:

Blank.

Deliverable:

Noise Report and Results of Noise Solicitation

Notes:

None

Gantt Chart:

[Noise Analysis](#)

WBS Name: Air Quality Analysis

WBS: WBS_F.3.2.18

WBS Hierarchy: Environmental > Environmental Studies

Work Package ID: TMPL1330

Organization: Office of Environmental Stewardship (OES)

Functional Group: Outstate: Environmental Modeling & Testing Unit

Metro: Office of Project Documentation

Threshold Criteria:

Air Quality Analysis is dependent upon project geographic location and level of required environmental documentation. (See HPDP.)

Prerequisites:

Blank.

Deliverable:

Air Quality Report

Notes:

None

Gantt Chart:

[Air Quality Analysis](#)

WBS Name: Section 7 Determination

WBS: WBS_F.3.2.19

WBS Hierarchy: Environmental > Environmental Studies

Work Package ID: TMPL 1703

Organization: Office of Environmental Stewardship (OES)

Functional Group: Environmental Assessment Unit

Threshold Criteria:

Incorporate this work package into the project schedule if the following criteria apply:

- 1) The project will be constructed using FHWA funding or if FHWA approval or oversight is required; and
- 2) The project activities will be contained within the shoulder P.I.'s.

Prerequisites:

Blank.

Deliverable:

Determination of Effect Letter

Notes:

None

Gantt Chart:

[Section 7 Determination](#)

WBS Name: Section 7 Formal Consultation

WBS: WBS_F.3.2.20

WBS Hierarchy: Environmental > Environmental Studies

Work Package ID: TMPL 1702

Organization: Office of Environmental Stewardship (OES)

Functional Group: Environmental Assessment Unit

Threshold Criteria:

Incorporate this work package into the project schedule if the following criteria apply:

- 1) The project will be constructed using FHWA funding or if FHWA approval or oversight is required.
- 2) Only upon the request of the OES Ecologist after the review of the ENM has been completed, until that time or unless instructed otherwise, please follow the criteria for TES 1000 or TES 2000/2010/2020.

Prerequisites:

Blank.

Deliverable:

Determination of Effect Letter

Notes:

None

Gantt Chart:

[Section 7 Formal Consultation](#)

WBS Name: Mussel Survey

WBS: WBS_F.3.2.21

WBS Hierarchy: Environmental > Environmental Studies

Work Package ID: TMPL1349

Organization: Office of Environmental Stewardship (OES)

Functional Group: Environmental Assessment Unit

Threshold Criteria:

Incorporate this work package into the project schedule only upon the request of the OES Ecologist as the result of comments received from the MNDNR after the review of the ENM has been completed.

Prerequisites:

Blank.

Deliverable:

Mussel Survey Report

Notes:

None

Gantt Chart:

[Mussel Survey](#)

WBS Name: Bat Survey

WBS: WBS_F.3.2.22

WBS Hierarchy: Environmental > Environmental Studies

Work Package ID: TMPL1704

Organization: Office of Environmental Stewardship (OES)

Functional Group: Environmental Assessment Unit

Threshold Criteria:

Incorporate this work package into the project schedule only upon the request of the OES Ecologist as the result of comments received from the MNDNR after the review of the ENM has been completed.

Prerequisites:

Blank.

Deliverable:

Bat Survey Report

Notes:

None

Gantt Chart:

[Bat Survey](#)

WBS Name: Bumble Bee Survey

WBS: WBS_F.3.2.23

WBS Hierarchy: Environmental > Environmental Studies

Work Package ID: TMPL1705

Organization: Office of Environmental Stewardship (OES)

Functional Group: Environmental Assessment Unit

Threshold Criteria:

Incorporate this work package into the project schedule only upon the request of the OES Ecologist as the result of comments received from the MNDNR after the review of the ENM has been completed.

Prerequisites:

Blank.

Deliverable:

Bumble Bee Survey Report

Notes:

None

Gantt Chart:

[Bumble Bee Survey](#)

WBS Name: Vegetation Review

WBS: WBS_F.3.2.24

WBS Hierarchy: Environmental > Environmental Studies

Work Package ID: TMPL1368

Organization: Office of Environmental Stewardship (OES)

Functional Group: Roadside Vegetation Mgmt Unit

Threshold Criteria:

Use:

- When the project includes clearing and grubbing, soil disturbance beyond the in slope, disruption of soil under any tree canopy, or when known specimen trees are included in or near the project area.

Prerequisites:

Blank.

Deliverable:

Special Provisions Document, Plan Review and/or Vegetation Memo

Notes:

None

Gantt Chart:

[Vegetation Review](#)

WBS Name: Wetland Delineations

WBS: WBS_F.3.2.25

WBS Hierarchy: Environmental > Environmental Studies

Work Package ID: TMPL1348 Or TEMP3008

Organization: District

Functional Group: District Environmental

Threshold Criteria:

Use:

- All projects.

Prerequisites:

Blank.

Deliverable:

Wetland Delineation Line Work; Wetland Delineation Report

Notes:

There are two work packages for Wetland Delineations--one for Metro and one for the outstate districts.

Gantt Chart:

[Wetland Delineations](#)

WBS Name: Section 6(f) Coordination

WBS: WBS_F.3.2.29

WBS Hierarchy: Environmental > Environmental Studies

Work Package ID: TMPL1420

Organization: Office of Environmental Stewardship (OES)

Functional Group: Environmental Assessment Unit

Threshold Criteria:

Use:

- If the project impacts outdoor recreation lands where Land and Water Conservation (LAWCON) funds were used for the planning, acquisition, or development of the property.

Prerequisites:

Blank.

Deliverable:

Approval letter from DNR and National Park Service

Notes:

None

Gantt Chart:

[Section 6\(f\) Coordination](#)

WBS Name: Visual Impact Assessment

WBS: WBS_F.3.2.31

WBS Hierarchy: Environmental > Environmental Studies

Work Package ID: TMPL1409

Organization: Office of Environmental Stewardship (OES)

Functional Group: Environmental Planning & Design Unit

Threshold Criteria:

Use:

- When there may be visual quality/aesthetic impacts.

Prerequisites:

Blank.

Deliverable:

Visual impact section of the environmental document.

Notes:

None

Gantt Chart:

[Visual Impact Assessment](#)

WBS Name: Section 4(f) Coordination

WBS: WBS_F.3.2.37

WBS Hierarchy: Environmental > Environmental Studies

Work Package ID: TMPL1419

Organization: Office of Environmental Stewardship (OES)

Functional Group: Environmental Assessment Unit

Threshold Criteria:

Use:

- If the project impacts publicly owned parks, recreation areas, wildlife and/or waterfowl refuges, or any publicly or privately owned historic sites listed or eligible for listing on the National Register of Historic Places from conversion to a transportation use. This is only required if FHWA needs funding, permits, or approval.

Prerequisites:

Blank.

Deliverable:

4(f) Evaluation Report and FHWA Approval Letter

Notes:

None

Gantt Chart:

[Section 4\(f\) Coordination](#)

WBS Name: Blowing and Drifting Snow Control

WBS: WBS_F.3.2.39

WBS Hierarchy: Environmental > Environmental Studies

Work Package ID: TMPL1417

Organization: Office of Environmental Stewardship (OES)

Functional Group: Roadside Vegetation Mgmt Unit

Threshold Criteria:

Use for the following projects types or if the project has an unsheltered fetch distance greater than 1,000 feet:

- New highway interchange construction;
- New roundabout construction projects;
- Grading projects within an inventoried snow trap problem area;
- Grade separation projects;
- New highway alignments adjacent to lakes; and
- Highway expansion from 2 to 4 lanes.

Prerequisites:

Blank.

Deliverable:

Under Blowing Snow Trap Analysis-

- Estimated snow transport report from University of Minnesota and State Climatology website.
- Benefit Cost Report on the Return on Investment for Implementing a Blowing Snow Control Practice.
- In some cases, a GEOPA

Notes:

The following link is to the Blowing and Drifting Snow Trap inventory. To open this link you must have access to MnDOT's public files and have Google Earth on your computer.

<\\Ad\co\Public\Environmental\SnowControl\SnowTrapInventory\SnowTrapsAug2014.kmz>

Gantt Chart:

[Blowing and Drifting Snow Control](#)

WBS Name: Categorical Exclusion - Non-Programmatic

WBS: WBS_F.3.3.2

WBS Hierarchy: Environmental > Environmental Documents

Work Package ID: TMPL1334

Organization: Office of Environmental Stewardship (OES)

Functional Group: Environmental Assessment Unit

Threshold Criteria:

Use:

- For federally funded actions that do not individually or cumulatively have a significant effect on the environment;
- On project types listed in 23 CFR 771.177(c) or (d) that exceed a threshold in Attachment B of the Programmatic Agreement between MnDOT and FHWA. See the HPDP for Class II Actions; and
- When the document requires review and signature by OES and FHWA.

Prerequisites:

Blank.

Deliverable:

signed CATEX Document

Notes:

None

Gantt Chart:

[Categorical Exclusion - Non-Programmatic](#)

WBS Name: Categorical Exclusion - Programmatic

WBS: WBS_F.3.3.3

WBS Hierarchy: Environmental > Environmental Documents

Work Package ID: TMPL1336

Organization: Office of Environmental Stewardship (OES)

Functional Group: Environmental Assessment Unit

Threshold Criteria:

Use:

- For federally funded actions that do not individually or cumulatively have a significant effect on the environment;
- On project types listed in 23 CFR 771.177(c) or (d) that do not exceed any threshold in Attachment B of the Programmatic Agreement between MnDOT and FHWA. See the HPDP for Class II Actions; and
- When the Project Manager (PM) and the District Engineer (DE) sign the document (DE).

Prerequisites:

Blank.

Deliverable:

signed CATEX Document

Notes:

None

Gantt Chart:

[Categorical Exclusion - Programmatic](#)

WBS Name: Environmental Assessment /Environmental Assessment Worksheet

WBS: WBS_F.3.3.4

WBS Hierarchy: Environmental > Environmental Documents

Work Package ID: TMPL1338

Organization: Office of Environmental Stewardship (OES)

Functional Group: Environmental Assessment Unit

Threshold Criteria:

Use:

- On federally funded projects that have the potential to significantly affect the environment, or if it is unclear if environmental impacts are significant. See the HPDP for Class III Actions;
- When the project action exceeds thresholds in Attachment B of the Programmatic Agreement between MnDOT and FHWA;
- If the project exceeds a mandatory threshold under Minn. Rules 4410.4300;
- When the document requires OES and FHWA review and signatures.

Prerequisites:

Blank.

Deliverable:

Environmental Assessment (EA), Environmental Assessment Worksheet Document (EAW), FONSI and Negative Declaration

Notes:

None

Gantt Chart:

[Environmental Assessment /Environmental Assessment Worksheet](#)

WBS Name: Environmental Assessment Worksheet (EAW) State

WBS: WBS_F.3.3.5

WBS Hierarchy: Environmental > Environmental Documents

Work Package ID: TMPL1332

Organization: Office of Environmental Stewardship (OES)

Functional Group: Environmental Assessment Unit

Threshold Criteria:

Use:

- On state funded projects that have the potential to significantly affect the environment, or if it is unclear if environmental impacts are significant;
- On projects that exceed a mandatory threshold under Minn. Rules 4410.4300; and

- When the document requires OES review and signature.

Prerequisites:

Blank.

Deliverable:

Environmental Assessment Worksheet (EAW) and Negative Declaration

Notes:

None

Gantt Chart:

[Environmental Assessment Worksheet \(EAW\) State](#)

WBS Name: Environmental Impact Statement (EIS)

WBS: WBS_F.3.3.6

WBS Hierarchy: Environmental > Environmental Documents

Work Package ID: TMPL1340

Organization: Office of Environmental Stewardship (OES)

Functional Group: Environmental Assessment Unit

Threshold Criteria:

Use:

- On federally funded projects that will significantly affect the environment and are similar to examples of actions listed in 23 CFR 771.115. See the HPDP for Class I Actions;
- On state funded projects that exceeds a mandatory threshold under Minn. Rules 4410.4400; and
- When the document requires OES and FHWA review and signature.

Prerequisites:

Blank.

Deliverable:

SDD, Draft EIS, Final EIS, ROD, Adequacy Determination, and Legal Sufficiency

Notes:

None

Gantt Chart:

[Environmental Impact Statement \(EIS\)](#)

WBS Name: NPDES Stormwater Discharge Permit

WBS: WBS_F.3.4.1

WBS Hierarchy: Environmental > Permits

Work Package ID: TMPL1346

Organization: Office of Environmental Stewardship (OES)

Functional Group: Erosion and Stormwater Management Unit

Threshold Criteria:

Use:

- All projects that have 1 or more acres of land disturbance. NPDES Permit is required on all design-build projects.

Prerequisites:

Blank.

Deliverable:

NPDES Prepared Application

Notes:

Dissolve activities NPP1020 and NPP1030 of this work package when the MPCA review is not required. A project with 50 acres of land disturbance that is at or within a 1-mile distance of special or impaired waters in which stormwater flows triggers the MPCA review.

Gantt Chart:

[NPDES Stormwater Discharge Permit](#)

WBS Name: Wetland/WCA & Aquatic Resources (404/401/Section 10)

WBS: WBS_F.3.4.2

WBS Hierarchy: Environmental > Permits

Work Package ID: TMPL1355

Organization: Office of Environmental Stewardship (OES)

Functional Group: Environmental Assessment Unit

Threshold Criteria:

Use:

- All projects.

Prerequisites:

Blank.

Deliverable:

Letter for Section 10, 404 Permit, 401 certification and WCA notification.

Notes:

The COE has stated that it is taking longer for permit application reviews. The timeframes are based on permit type and amount of wetland impact and are as follows:

- GP (wetland impact < 0.5 acre): 85 days;
- LOP (wetland impact > 0.5 acre but < 5 acres):

Gantt Chart:

[Wetland/WCA & Aquatic Resources \(404/401/Section 10\)](#)

WBS Name: DNR Public Waters Permit

WBS: WBS_F.3.4.3

WBS Hierarchy: Environmental > Permits

Work Package ID: TMPL1350

Organization: Office of Environmental Stewardship (OES)

Functional Group: Office of Environmental Stewardship (OES)

Threshold Criteria:

Use:

- All projects.

Prerequisites:

Blank.

Deliverable:

DNR Public Waters Permit

Notes:

None

Gantt Chart:

[DNR Public Waters Permit](#)

WBS Name: Watershed District Permit

WBS: WBS_F.3.4.4

WBS Hierarchy: Environmental > Permits

Work Package ID: TMPL1352

Organization: Office of Environmental Stewardship (OES)

Functional Group: Office of Environmental Stewardship (OES)

Threshold Criteria:

Use:

- All projects.

Prerequisites:

Blank.

Deliverable:

Watershed Permit

Notes:

None

Gantt Chart:

[Watershed District Permit](#)

WBS Name: Section 9 (Coast Guard) Permit

WBS: WBS_F.3.4.5

WBS Hierarchy: Environmental > Permits

Work Package ID: TMPL1354

Organization: Bridge Office

Functional Group: Preliminary Bridge

Threshold Criteria:

The work associated with this work package is for the coordination, development, and receipt of the permit from the United States Coast Guard (USCG) for major bridges over water (e.g., TH 63 over Mississippi River in Red Wing). Use:

- When a bridge over water is required to obtain a permit from the USCG. Discuss any bridges required to obtain a USCG permit that are not major bridges with the Bridge Office when developing a project schedule.

Prerequisites:

Blank.

Deliverable:

Signed Coast Guard Permit

Notes:

None

Gantt Chart:

[Section 9 \(Coast Guard\) Permit](#)

Road Design Work Packages

WBS Name: Surveys

WBS: WBS_F.4.1

WBS Hierarchy: Road Design

Work Package ID: TMPL3010

Organization: District

Functional Group: District Project Management

Threshold Criteria:

Use:

- All projects.

Prerequisites:

Blank.

Deliverable:

Survey Request

Notes:

This work package only exists in the Project Template. Owners are in the Activity Owners tab.

Gantt Chart:

[Surveys](#)

WBS Name: Geodetic Control Surveys

WBS: WBS_F.4.1.1.1

WBS Hierarchy: Road Design > Surveys > Control Surveys

Work Package ID: TMPL1400

Organization: Office of Land Management (OLM)

Functional Group: Geodetic Unit

Threshold Criteria:

Use:

- When there needs to be field observations for precise surveying and mapping. This will also provide support for Geographic Information Systems and Land Information System.

Prerequisites:

Blank.

Deliverable:

Documentation in a survey report and control list is delivered to the Project Manager (District Land Surveyor in Metro).

Notes:

None

Gantt Chart:

[Geodetic Control Surveys](#)

WBS Name: Project Control Surveys

WBS: WBS_F.4.1.1.2

WBS Hierarchy: Road Design > Surveys > Control Surveys

Work Package ID: TMPL1401

Organization: District

Functional Group: District Surveys

Threshold Criteria:

Use:

- When a project survey needs to be flown (Photogrammetric Surveys) or when control points are deemed necessary by a District Land Surveyor.

Prerequisites:

Blank.

Deliverable:

A file for surveys on which to base district land surveys and design surveys

Notes:

None

Gantt Chart:

[Project Control Surveys](#)

WBS Name: District Land Surveys

WBS: WBS_F.4.1.2

WBS Hierarchy: Road Design > Surveys

Work Package ID: TMPL1403

Organization: District

Functional Group: District Surveys

Threshold Criteria:

Use:

- All projects.

It can be removed with the approval of District Land Survey.

Prerequisites:

Blank.

Deliverable:

Existing Right of Way survey, AS-Built Alignment survey and Existing Properties survey.

Notes:

None

Gantt Chart:

[District Land Surveys](#)

WBS Name: Design Surveys

WBS: WBS_F.4.1.3

WBS Hierarchy: Road Design > Surveys

Work Package ID: TMPL3014

Organization: District

Functional Group: District Surveys

Threshold Criteria:

Use:

- All projects.

Prerequisites:

Blank.

Deliverable:

Existing alignments, right-of-way, topography, bridge geometrics, utility and drainage information in the Survey Base Mapping and DTM files

Notes:

None

Gantt Chart:

[Design Surveys](#)

WBS Name: Photogrammetric Basemap

WBS: WBS_F.4.1.4

WBS Hierarchy: Road Design > Surveys

Work Package ID: TMPL1402

Organization: Office of Land Management (OLM)

Functional Group: Photogrammetric Unit

Threshold Criteria:

Use:

- To generate base map for the creation of ROW base map, survey base map, and roadway base map.

Prerequisites:

Blank.

Deliverable:

Photogrammetric Base Map file and Orthomosaic Map.

Notes:

None

Gantt Chart:

[Photogrammetric Basemap](#)

WBS Name: Traffic Counts

WBS: WBS_F.4.2.1

WBS Hierarchy: Road Design > Traffic Studies

Work Package ID: TMPL1375

Organization: District

Functional Group: District Traffic

Threshold Criteria:

Use:

- When field traffic counts are required.

Prerequisites:

Blank.

Deliverable:

Intersection or roadway traffic count volumes.

Notes:

None

Gantt Chart:

[Traffic Counts](#)

WBS Name: Traffic Forecasts

WBS: WBS_F.4.2.2

WBS Hierarchy: Road Design > Traffic Studies

Work Package ID: TMPL3016

Organization: District

Functional Group: District Materials

Threshold Criteria:

Use:

- All projects.

Prerequisites:

Blank.

Deliverable:

Traffic forecasts and ESALs

Notes:

None

Gantt Chart:

[Traffic Forecasts](#)

WBS Name: Intersection Control Evaluation

WBS: WBS_F.4.2.5

WBS Hierarchy: Road Design > Traffic Studies

Work Package ID: TMPL3018

Organization: District

Functional Group: District Traffic

Threshold Criteria:

Use:

- When considering a signal, flashing beacon, or roundabout for installation or modification.
- When additional traffic control is desired at a specific location(s) due to a planning study, a safety concern or improvement project on other documented studies.

Prerequisites:

Blank.

Deliverable:

Intersection Control Evaluation Report

Notes:

None

Gantt Chart:

[Intersection Control Evaluation](#)

WBS Name: Transportation Management Plan

WBS: WBS_F.4.2.6

WBS Hierarchy: Road Design > Traffic Studies

Work Package ID: TMPL3020

Organization: District

Functional Group: District Project Management

Threshold Criteria:

Use:

- All projects.

Prerequisites:

Blank.

Deliverable:

Transportation Management Plan

Notes:

None

Gantt Chart:

[Transportation Management Plan](#)

WBS Name: Interstate Access Request

WBS: WBS_F.4.2.7

WBS Hierarchy: Road Design > Traffic Studies

Work Package ID: TMPL3022

Organization: District

Functional Group: District Traffic

Threshold Criteria:

Use:

- When considering adding, removing, or modifying an interstate access.

Prerequisites:

Blank.

Deliverable:

Interstate Access Report and Federal Access Approval Letter

Notes:

None

Gantt Chart:

[Interstate Access Request](#)

WBS Name: Staff Approved Layout

WBS: WBS_F.4.3.2

WBS Hierarchy: Road Design > Preliminary Design

Work Package ID: TMPL3024

Organization: District

Functional Group: District Project Management

Threshold Criteria:

Use:

- On projects meeting Level 1 or 2 layout process criteria.
- or-

- Level 3 criteria, require Municipal Consent, or need a layout for project development, or need a layout for the public involvement process

Prerequisites:

Blank.

Deliverable:

Signed Geometric Layout

Notes:

Activity LAY1060 GDSU Review of Staff Approved Layout may be removed from the work package if the project is level 2 or 3.

Gantt Chart:

[Staff Approved Layout](#)

WBS Name: Design Memo/Design Exception

WBS: WBS_F.4.3.3

WBS Hierarchy: Road Design > Preliminary Design

Work Package ID: TMPL3026

Organization: Geometric Design Support

Functional Group: Geometric Design Support

Threshold Criteria:

Use:

- All projects.

Prerequisites:

Blank.

Deliverable:

Documentation of design standards and approval of design exceptions by State Design Engineer.

Notes:

This work package only exists in the Project Template. Owners are in the Activity Owners tab.

Gantt Chart:

[Design Memo/Design Exception](#)

WBS Name: RW Construction Limits

WBS: WBS_F.4.3.4

WBS Hierarchy: Road Design > Preliminary Design

Work Package ID: TMPL3028

Organization: District

Functional Group: District Design

Threshold Criteria:

Use:

- All projects.

Prerequisites:

Blank.

Deliverable:

Construction Limits used for determining right-of-way

Notes:

None

Gantt Chart:

[RW Construction Limits](#)

WBS Name: Value Engineering

WBS: WBS_F.4.3.5

WBS Hierarchy: Road Design > Preliminary Design

Work Package ID: TMPL1407

Organization: Office of Project Management & Technical Support

Functional Group: Value Engineering Unit

Threshold Criteria:

Use:

- On all projects with a Total Project Cost Estimate (TPCE) of \$20 million or more, regardless of funding source or the roadway status on the NHS. See TM 11-07-TS-01 for more details.

Prerequisites:

Blank.

Deliverable:

VE Report

Notes:

None

Gantt Chart:

[Value Engineering](#)

WBS Name: Municipal Consent

WBS: WBS_F.4.3.6

WBS Hierarchy: Road Design > Preliminary Design

Work Package ID: TMPL3030

Organization: District

Functional Group: District Project Management

Threshold Criteria:

Use:

- On projects requiring municipal approval of final geometric layout.

Prerequisites:

Blank.

Deliverable:

Council/Board resolution approving Final Geometric Layout

Notes:

None

Gantt Chart:

[Municipal Consent](#)

WBS Name: Municipal Consent (Appeal Process)

WBS: WBS_F.4.3.7

WBS Hierarchy: Road Design > Preliminary Design

Work Package ID: TMPL3032

Organization: District

Functional Group: District Project Management

Threshold Criteria:

Use:

- Projects that require municipal consent but do not receive municipal approval.

Prerequisites:

Blank.

Deliverable:

Appeal Board recommendation

Notes:

None

Gantt Chart:

[Municipal Consent \(Appeal Process\)](#)

WBS Name: Foundation Recommendations

WBS: WBS_F.4.4.1

WBS Hierarchy: Road Design > Recommendations

Work Package ID: TMPL1414

Organization: Office of Materials & Road Research

Functional Group: Geotechnical Engineering Services

Threshold Criteria:

Include in schedules for projects that include any or all of the following structures:

- Retaining walls;
- Noise walls;
- Cable median guardrail;
- High mast light towers;
- New overhead sign structures; and
- Embankments on poor soils.

Prerequisites:

Blank.

Deliverable:

Geotechnical Recommendation Report

Notes:

Individual Geotechnical Work Packages will be included for each of the various structure types that are included in the project. Proper activity identification, durations, predecessors, successors, and labor hours will be identified during the resource c

Gantt Chart:

[Foundation Recommendations](#)

WBS Name: Material Design Recommendations (MDR)

WBS: WBS_F.4.4.2

WBS Hierarchy: Road Design > Recommendations

Work Package ID: TMPL3034

Organization: District

Functional Group: District Materials

Threshold Criteria:

Use:

- All projects.

Prerequisites:

Blank.

Deliverable:

Borings, Material Design Recommendations Report

Notes:

None

Gantt Chart:

[Material Design Recommendations \(MDR\)](#)

WBS Name: Stormwater Treatment Design

WBS: WBS_F.4.4.4.1

WBS Hierarchy: Road Design > Recommendations > Hydraulics Design Recommendations

Work Package ID: TMPL3036

Organization: District

Functional Group: District Hydraulics/WRE

Threshold Criteria:

Use:

- All projects.

Prerequisites:

Blank.

Deliverable:

Preliminary storm water treatment design recommendation and soil boring/piezometer request

Notes:

None

Gantt Chart:

[Stormwater Treatment Design](#)

WBS Name: Hydraulics Design

WBS: WBS_F.4.4.4.2

WBS Hierarchy: Road Design > Recommendations > Hydraulics Design Recommendations

Work Package ID: TMPL3038

Organization: District

Functional Group: District Hydraulics/WRE

Threshold Criteria:

Use:

- All projects.

Prerequisites:

Blank.

Deliverable:

Preliminary and Final Hydraulic design recommendation, staged construction hydraulic design, SWPPP and Erosion Control Plans, special provisions and estimate

Notes:

None

Gantt Chart:

[Hydraulics Design](#)

WBS Name: ADA Requirements

WBS: WBS_F.4.4.5

WBS Hierarchy: Road Design > Recommendations

Work Package ID: TMPL1416

Organization: ADA

Functional Group: ADA Unit

Threshold Criteria:

Include ADA on all projects that involve construction with pavement resurfacing, pavement rehabilitation, select pavement preservation (micro-surfacing, cape sealing, etc.) signals, trails, sidewalks, rest areas, intersection modifications (roundabouts, turn lanes, reduced conflict intersections, curbed channelization, etc.), bridges with walks, and/or all urban bridges.

Prerequisites:

Blank.

Deliverable:

Draft and Final ADA Recommendations Letter, ADA comments between 30% and 60% plans and between 60% and 90% plans

Notes:

See ADA Work Package Guidance - Durations and Role Hours for additional information.

Gantt Chart:

[ADA Requirements](#)

WBS Name: Visual Quality Management Plan

WBS: WBS_F.4.4.7

WBS Hierarchy: Road Design > Recommendations

Work Package ID: TMPL1408

Organization: Office of Environmental Stewardship (OES)

Functional Group: Environmental Planning & Design Unit

Threshold Criteria:

Use:

- When Visual Quality Manual is required for a project or corridor.

Prerequisites:

Blank.

Deliverable:

Visual Quality Manual

Notes:

None

Gantt Chart:

[Visual Quality Management Plan](#)

WBS Name: Road Plans

WBS: WBS_F.4.5.1.1

WBS Hierarchy: Road Design > Final Design > Plan Set

Work Package ID: TMPL3040

Organization: District

Functional Group: District Design

Threshold Criteria:

Use:

- All projects.

Prerequisites:

Blank.

Deliverable:

30% Plans, 60% Plans and 90% Plans, and Construction Cost Estimates

Notes:

None

Gantt Chart:

[Road Plans](#)

WBS Name: Hydraulics/WRE Plans

WBS: WBS_F.4.5.1.2

WBS Hierarchy: Road Design > Final Design > Plan Set

Work Package ID: TMPL3042

Organization: District

Functional Group: District Hydraulics/WRE

Threshold Criteria:

Use:

- All projects requiring culvert or storm sewer plans.

Prerequisites:

Blank.

Deliverable:

Culvert and Storm Sewer Plans, Specifications and estimate

Notes:

None

Gantt Chart:

[Hydraulics/WRE Plans](#)

WBS Name: Traffic Control/Staging Plan

WBS: WBS_F.4.5.1.3.1

WBS Hierarchy: Road Design > Final Design > Plan Set > Traffic Plans

Work Package ID: TMPL3044

Organization: District

Functional Group: District Traffic

Threshold Criteria:

Use:

- All projects.

Prerequisites:

Blank.

Deliverable:

Traffic control, detour and staging plans, special provisions, and estimate

Notes:

None

Gantt Chart:

[Traffic Control/Staging Plan](#)

WBS Name: Pavement Marking Plan

WBS: WBS_F.4.5.1.3.2

WBS Hierarchy: Road Design > Final Design > Plan Set > Traffic Plans

Work Package ID: TMPL3046

Organization: District

Functional Group: District Traffic

Threshold Criteria:

Use:

- All projects.

Prerequisites:

Blank.

Deliverable:

Pavement marking plans, special provisions, and estimate

Notes:

None

Gantt Chart:

[Pavement Marking Plan](#)

WBS Name: Signing Plan

WBS: WBS_F.4.5.1.3.3

WBS Hierarchy: Road Design > Final Design > Plan Set > Traffic Plans

Work Package ID: TMPL1339

Organization: District

Functional Group: District Traffic Signing

Threshold Criteria:

Use:

- When putting up new signs or replacing existing signs.

Prerequisites:

Blank.

Deliverable:

Signing plans, special provisions and estimate

Notes:

You can use this with either the Project Template or the Minor Template.

Gantt Chart:

[Signing Plan](#)

WBS Name: Signal Plan

WBS: WBS_F.4.5.1.3.4

WBS Hierarchy: Road Design > Final Design > Plan Set > Traffic Plans

Work Package ID: TMPL1341

Organization: District

Functional Group: District Traffic Signal

Threshold Criteria:

Use:

- When replacing or installing new signals.

Prerequisites:

Blank.

Deliverable:

Signal plans, special provisions and estimate

Notes:

You can use this with either the Project Template or the Minor Template.

Gantt Chart:

[Signal Plan](#)

WBS Name: Lighting Plan

WBS: WBS_F.4.5.1.3.5

WBS Hierarchy: Road Design > Final Design > Plan Set > Traffic Plans

Work Package ID: TMPL1335

Organization: District

Functional Group: District Traffic Lighting

Threshold Criteria:

Use:

- When replacing or installing new lighting.

Prerequisites:

Blank.

Deliverable:

Lighting plans, special provisions and estimate

Notes:

You can use this with either the Project Template or the Minor Template.

Gantt Chart:

[Lighting Plan](#)

WBS Name: TMS Plan

WBS: WBS_F.4.5.1.3.6

WBS Hierarchy: Road Design > Final Design > Plan Set > Traffic Plans

Work Package ID: TMPL3048

Organization: District

Functional Group: District Traffic Management

Threshold Criteria:

Use:

- Projects that require Traffic Management System Plans.

Prerequisites:

Blank.

Deliverable:

TMS Plans, Special Provisions and construction cost estimates

Notes:

This work package only exists in the Project Template. Owners are in the Activity Owners tab.

Gantt Chart:

[TMS Plan](#)

WBS Name: Time and Traffic

WBS: WBS_F.4.5.1.3.7

WBS Hierarchy: Road Design > Final Design > Plan Set > Traffic Plans

Work Package ID: TMPL3050

Organization: District Construction

Functional Group: District Construction

Threshold Criteria:

Use:

- All projects.

Prerequisites:

Blank.

Deliverable:

Contract Time and Traffic Provisions, both of which are included in the Special Provisions

Notes:

None

Gantt Chart:

[Time and Traffic](#)

WBS Name: Project Turn In

WBS: WBS_F.4.5.2

WBS Hierarchy: Road Design > Final Design

Work Package ID: TMPL3054

Organization: District

Functional Group: District Project Management

Threshold Criteria:

Use:

- All projects.

Prerequisites:

Blank.

Deliverable:

Submittal memo and construction plans, special provisions and estimate

Notes:

None

Gantt Chart:

[Project Turn In](#)

WBS Name: Special Provisions

WBS: WBS_F.4.5.3

WBS Hierarchy: Road Design > Final Design

Work Package ID: TMPL3052

Organization: District

Functional Group: District Project Management

Threshold Criteria:

Use:

- All projects.

Prerequisites:

Blank.

Deliverable:

Special Provisions Document

Notes:

None

Gantt Chart:

[Special Provisions](#)

WBS Name: Subsurface Utility Engineering

WBS: WBS_F.4.6.1

WBS Hierarchy: Road Design > Utilities

Work Package ID: TMPL1379

Organization: District

Functional Group: District Utilities

Threshold Criteria:

Use:

- All design-build projects.
- Design-bid-build projects if a SUE investigation is necessary.

Prerequisites:

Blank.

Deliverable:

Subsurface Utility Exploration (SUE) files containing utility locate information (often dgn). May also include the preparation of Utility Identification Sheets (UIS).

Notes:

None

Gantt Chart:

[Subsurface Utility Engineering](#)

WBS Name: Utility Coordination

WBS: WBS_F.4.6.2

WBS Hierarchy: Road Design > Utilities

Work Package ID: TMPL1425

Organization: Office of Land Management (OLM) and District

Functional Group: Utility Agreements & Permits Unit and District Utilities

Threshold Criteria:

Required when a utility meeting is conducted and the utilities will generate utility relocation plans.

Prerequisites:

Blank.

Deliverable:

Utility Relocation Plans from utility owners

Notes:

None

Gantt Chart:

[Utility Coordination](#)

Bridge Work Packages

WBS Name: New Bridge

WBS: WBS_F.5.1

WBS Hierarchy: Bridge Design

Work Package ID: TMPL1500

Organization: Bridge Office

Functional Group: Bridge Office

Threshold Criteria:

The work associated with this Work Package is for the scoping, design, and drafting of a new bridge or replacement bridge for typical 2-span highway structures. Use:

- When the Bridge Office does the design for new/replacement bridges.

Talk to the Bridge Office for any new bridge projects with any other type of bridge when developing a project schedule.

Prerequisites:

Blank.

Deliverable:

Bridge Plan Set, Construction Cost Estimate and Bridge Specifications

Notes:

NOTE: If a culvert has been determined as the structure type instead of a new/replacement bridge, use the culvert Work Package.

Gantt Chart:

[New Bridge](#)

WBS Name: Consultant Bridge Design

WBS: WBS_F.5.1

WBS Hierarchy: Bridge Design

Work Package ID: TMPL1505

Organization: Bridge Office

Functional Group: Bridge Office

Threshold Criteria:

Use:

- In combination with the New Bridge work package when a consultant performs bridge design work.

Prerequisites:

Blank.

Deliverable:

Bridge Plan Reviews

Notes:

None

Gantt Chart:

[Consultant Bridge Design](#)

WBS Name: Culvert

WBS: WBS_F.5.2

WBS Hierarchy: Bridge Design

Work Package ID: TMPL1520

Organization: Bridge Office

Functional Group: Bridge Office

Threshold Criteria:

The work associated with this work package is for the scoping, design, and drafting of bridge culverts (10 feet or greater in span length) to produce a culvert construction plan. Use:

- When a bridge culvert construction plan is needed on a project. This work package assumes a standard culvert design. If a special design is needed, schedule adjustment may be necessary.

NOTE: Substitution of this work package may be needed in place of the new bridge work package once a culvert has been determined as the structure type.

Prerequisites:

Blank.

Deliverable:

Culvert Plan Set, Construction Cost Estimate and Bridge Specifications

Notes:

Foundation Recommendation is used ONLY when the culvert opening size is 80 SF or greater. If opening is less than 80 SF, remove the Foundation Recommendation activities. With any questions on the opening size of the culvert, please contact the bridge office for information on the specific culvert.

Gantt Chart:

[Culvert](#)

WBS Name: Bridge Preservation

WBS: WBS_F.5.3

WBS Hierarchy: Bridge Design

Work Package ID: TMPL1503

Organization: Bridge Office

Functional Group: Bridge Office

Threshold Criteria:

The work associated with this work package is for the scoping, design, and drafting of bridge preservation projects consisting of mill and overlays, railing repairs, joint repairs, approach panels repairs, and simple concrete repairs (e.g., slope paving, substructures, etc.) for typical 2-span highway structures. Use:

- When simple bridge preservation construction plans are needed for a project. For any bridge preservation projects on any other type of bridge, talk with the Bridge Office when developing a project schedule.

Prerequisites:

Blank.

Deliverable:

Bridge Preservation Recommendations & Bridge Preservation Plan Set, Construction Cost Estimate and Bridge Specifications

Notes:

None

Gantt Chart:

[Bridge Preservation](#)

WBS Name: Bridge Redeck

WBS: WBS_F.5.4

WBS Hierarchy: Bridge Design

Work Package ID: TMPL1504

Organization: Bridge Office

Functional Group: Bridge Office

Threshold Criteria:

The work associated with this work package is for the scoping, design, and drafting of bridge redeck projects for typical 2-span highway structures. Use:

- When bridge redeck construction plans are needed.
- When there is a risk of bridge preservation projects changing scope to redeck projects.
- When minor deck widening is included in the scope.

For any bridge redeck projects on any other type of bridge, talk with the Bridge Office when developing a project schedule.

Prerequisites:

Blank.

Deliverable:

Bridge Redeck Recommendations & Bridge Redeck Plan Set, Construction Cost Estimate and Bridge Specifications

Notes:

None

Gantt Chart:

[Bridge Redeck](#)

WBS Name: Bridge Substructure Widening

WBS: WBS_F.5.7

WBS Hierarchy: Bridge Design

Work Package ID: TMPL1508

Organization: Bridge Office

Functional Group: Bridge Office

Threshold Criteria:

The work associated with this work package is for the scoping, design, and drafting of a bridge substructure widening project for typical 2-span highway structures. Use:

- When the bridge deck and substructures need to be widened. A preliminary bridge plan is included in this work package as it is typically required for these types of widenings.

For any substructure and deck widenings on any other type of bridge, talk with the Bridge Office when developing a project schedule.

Prerequisites:

Blank.

Deliverable:

Bridge Substructure Widening Plan Set, Construction Cost Estimate and Bridge Specifications

Notes:

None

Gantt Chart:

[Bridge Substructure Widening](#)

WBS Name: Historic Bridge Study

WBS: WBS_F.5.8

WBS Hierarchy: Bridge Design

Work Package ID: TMPL1509

Organization: Bridge Office

Functional Group: Bridge Office

Threshold Criteria:

The work associated with this work package is for the coordination, analysis, and development of a historic bridge rehab study for bridges that are eligible for or on the National Register of Historic Places. Use:

- For any historic bridges to determine if rehabilitation is a viable option. Coordination with the Bridge Office and CRU is highly recommended for these types of bridge projects when developing a project schedule.

Prerequisites:

Blank.

Deliverable:

Historic bridge rehab study

Notes:

CRU work package 1 is required if there is a historic bridge work package. Each historic study can vary from structure to structure, so it is highly recommended that you contact the CRU group when adding one of these work packages into a schedule.

Gantt Chart:

[Historic Bridge Study](#)

WBS Name: Bridge End Post Design

WBS: WBS_F.5.9

WBS Hierarchy: Bridge Design

Work Package ID: TMPL1499

Organization: Bridge Office

Functional Group: Bridge Office

Threshold Criteria:

The work associated with this work package is for the scoping, design, and drafting of end posts on bridges for typical 2-span highway structures. Use:

- When end post construction plans are needed for a project.

Prerequisites:

Blank.

Deliverable:

Bridge End Post Plan set and Bridge End Post specifications

Notes:

None

Gantt Chart:

[Bridge End Post Design](#)

WBS Name: Bridge Painting Plans

WBS: WBS_F.5.10

WBS Hierarchy: Bridge Design

Work Package ID: TMPL1498

Organization: Bridge Office

Functional Group: Bridge Office

Threshold Criteria:

N/A

Prerequisites:

Blank.

Deliverable:

N/A

Notes:

None

Gantt Chart:

[Bridge Painting Plans](#)

Right of Way Work Packages

WBS Name: Fee Acquisition

WBS: WBS_F.6.1

WBS Hierarchy: Land Management

Work Package ID: TMPL1600

Organization: Office of Land Management (OLM) and District

Functional Group: Office of Land Management (OLM) and District Right of Way

Threshold Criteria:

Use:

- When MnDOT is acquiring parcels for construction.

Prerequisites:

Blank.

Deliverable:

Parcel ownership documents

Notes:

None

Gantt Chart:

[Fee Acquisition](#)

WBS Name: Relocation

WBS: WBS_F.6.1.7

WBS Hierarchy: Land Management > Fee Acquisition/Acquisition (Metro)

Work Package ID: TMPL1650

Organization: Office of Land Management (OLM) and District

Functional Group: Office of Land Management (OLM) and District Right of Way

Threshold Criteria:

Use:

- When MnDOT needs to relocate a property owner/occupant for construction.

Prerequisites:

Blank.

Deliverable:

Relocation of Property Owner/Occupant

Notes:

None

Gantt Chart:

[Relocation](#)

WBS Name: PIF for R/W Acquisition

WBS: WBS_F.6.1.8

WBS Hierarchy: Land Management > Fee Acquisition/Acquisition (Metro)

Work Package ID: TMPL1660

Organization: Office of Land Management (OLM) and District

Functional Group: Office of Land Management (OLM) and District Right of Way

Threshold Criteria:

Use:

- When MnDOT has not acquired all of the parcels, direct purchase or condemnation, prior to the letting.

Prerequisites:

Blank.

Deliverable:

Signed Public Interest Finding (PIF) Memo to the PreLetting Unit.

Notes:

None

Gantt Chart:

[PIF for R/W Acquisition](#)

WBS Name: Temporary Right to Construct

WBS: WBS_F.6.2

WBS Hierarchy: Land Management

Work Package ID: TMPL1630 or TEMP1635

Organization: Office of Land Management (OLM) and District

Functional Group: Office of Land Management (OLM) and District Right of Way

Threshold Criteria:

Use:

- When the property owner is willing to negotiate temporary land access for construction. This is a shorter version of the R/W Template. Generally, use this on pedestrian ramp and culvert projects.

Prerequisites:

Blank.

Deliverable:

Signed Temporary Right to Construct Document

Notes:

There are two work packages - one for the outstate districts and one for Metro.

Gantt Chart:

[Temporary Right to Construct](#)

WBS Name: Commissioner's Orders

WBS: WBS_F.6.3

WBS Hierarchy: Land Management

Work Package ID: TMPL1640 or TMPL1645

Organization: Office of Land Management (OLM) and District

Functional Group: Office of Land Management (OLM) and District Right of Way

Threshold Criteria:

Use:

- When new right of way is acquired for highway purposes. Official Commissioner's Order identifies the limits of the right of way required for highway purposes as designated by the Commissioner of Transportation. Orders may be in the form of a map or plat showing the lands and interests in land required for highway purposes.

Prerequisites:

Blank.

Deliverable:

Certified copies of Commissioner's Orders as required for condemnation and other legal purposes

Notes:

There are two work packages - one for the outstate districts and one for Metro.

Gantt Chart:

[Commissioner's Orders](#)

WBS Name: Acquisition (Metro)

WBS: WBS_F.6.5

WBS Hierarchy: Land Management

Work Package ID: TMPL1610

Organization: Office of Land Management (OLM) and District

Functional Group: Office of Land Management (OLM) and District Right of Way

Threshold Criteria:

Use:

- Metro right of way acquisition.

Prerequisites:

Blank.

Deliverable:

Parcel ownership documents

Notes:

None

Gantt Chart:

[Acquisition \(Metro\)](#)

Agreements Work Packages

WBS Name: Lighting Agreement

WBS: WBS_F.7.2

WBS Hierarchy: Agreements

Work Package ID: TMPL1376

Organization: District

Functional Group: District Traffic Lighting

Threshold Criteria:

Use:

- To supplement the Road Project Template. This is not required if the PM and district want to track this under Cooperative Construction Agreement activities.

Prerequisites:

Blank.

Deliverable:

Lighting Agreement between MnDOT and another jurisdiction

Notes:

None

Gantt Chart:

[Lighting Agreement](#)

WBS Name: Signal Agreement

WBS: WBS_F.7.3

WBS Hierarchy: Agreements

Work Package ID: TMPL1377

Organization: District

Functional Group: District Traffic - Signals

Threshold Criteria:

Use:

- To supplement the Road Project Template. This is not required if the PM and district want to track this under Cooperative Construction Agreement activities.

Prerequisites:

Blank.

Deliverable:

Signal Agreement between MnDOT and another jurisdiction

Notes:

None

Gantt Chart:

[Signal Agreement](#)

WBS Name: Utility Agreement

WBS: WBS_F.7.4

WBS Hierarchy: Agreements

Work Package ID: TMPL1424

Organization: Office of Land management (OLM)

Functional Group: Utility Agreements and Permits Unit

Threshold Criteria:

Use:

- When generating or modifying utility agreements for utilities within MnDOT R/W.

Prerequisites:

Blank.

Deliverable:

Agreement with utilities within MnDOT ROW

Notes:

None

Gantt Chart:

[Utility Agreement](#)

WBS Name: Cooperative Construction Agreements

WBS: WBS_F.7.5

WBS Hierarchy: Agreements

Work Package ID: TMPL3056

Organization: Office of Project Management and Technical Support (OPMTS)

Functional Group: Co-op Agreements Unit

Threshold Criteria:

Use:

- Projects that include construction agreements with a city, county, township or other governmental agency.

Prerequisites:

Blank.

Deliverable:

Executed Agreement

Notes:

None

Gantt Chart:

[Cooperative Construction Agreements](#)

WBS Name: Railroad Flagging Agreement

WBS: WBS_F.7.6.1

WBS Hierarchy: Agreements > Railroad Agreement

Work Package ID: TMPL1422

Organization: Office of Freight and Commercial Vehicle Operations

Functional Group: Freight & Commercial Vehicle Operations

Threshold Criteria:

Use:

- When construction activities impact railroad R/W or when it is possible for construction equipment to fall across railroad tracks.

Before adding this work package, contact the Office of Freight & Commercial Vehicle operations.

Prerequisites:

Blank.

Deliverable:

Agreement with the railroad company for flagging

Notes:

None

Gantt Chart:

[Railroad Flagging Agreement](#)

WBS Name: Railroad Bridge Agreement

WBS: WBS_F.7.6.2

WBS Hierarchy: Agreements > Railroad Agreement

Work Package ID: TMPL1421

Organization: Office of Freight and Commercial Vehicle Operations

Functional Group: Freight & Commercial Vehicle Operations

Threshold Criteria:

Use:

- When a project impacts a railroad bridge or a non-railroad roadway bridge that intersects with railroad track or R/W. Note that a rehab project will likely only need the Railroad Flagging Agreement Template; therefore, rehab projects start with the Railroad Flagging Agreement Template.

Before adding this work package, contact the Office of Freight & Commercial Vehicle operations.

Prerequisites:

Blank.

Deliverable:

Agreement with the railroad company for work involving a bridge

Notes:

None

Gantt Chart:

[Railroad Bridge Agreement](#)

WBS Name: Railroad Track Relocation Agreement

WBS: WBS_F.7.6.3

WBS Hierarchy: Agreements > Railroad Agreement

Work Package ID: TMPL1423

Organization: Office of Freight and Commercial Vehicle Operations

Functional Group: Freight & Commercial Vehicle Operations

Threshold Criteria:

Use:

- When commercial freight railroad track needs to be relocated.

Before adding this work package, contact the Office of Freight & Commercial Vehicle operations.

Prerequisites:

Blank.

Deliverable:

Agreement with the railroad company for work involving track relocation.

Notes:

None

Gantt Chart:

[Railroad Track Relocation Agreement](#)

WBS Name: Detour Agreement

WBS: WBS_F.7.7

WBS Hierarchy: Agreements

Work Package ID: TMPL3058

Organization: District

Functional Group: District Project Management

Threshold Criteria:

Use:

- Projects that use other agency routes for the project detour.

Prerequisites:

Blank.

Deliverable:

Executed Detour Agreement

Notes:

None

Gantt Chart:

[Detour Agreement](#)

Letting Work Packages

WBS Name: Process A

WBS: WBS_F.8.1

WBS Hierarchy: Letting

Work Package ID: TMPL2000

Organization: Office of Project Management & Technical Support (OPMTS)

Functional Group: Pre- Letting Unit

Threshold Criteria:

Use:

- Small projects that are minor in scope. These projects contain no more than 50 plan sheets and comprise less than 20 pay items.

Prerequisites:

Blank.

Deliverable:

Proposal Package

Notes:

For additional details regarding the letting processes, see the OPMTS Pre-Letting Services Section Overview.

Gantt Chart:

[Process A](#)

WBS Name: Process B

WBS: WBS_F.8.2

WBS Hierarchy: Letting

Work Package ID: TMPL2001

Organization: Office of Project Management & Technical Support (OPMTS)

Functional Group: Pre- Letting Unit

Threshold Criteria:

Use:

- Plans and special provisions that need Central Office approval.

Prerequisites:

Blank.

Deliverable:

Proposal Package

Notes:

For additional details regarding the letting processes, see the OPMTS Pre-Letting Services Section Overview.

Gantt Chart:

[Process B](#)

WBS Name: Process B Complex

WBS: WBS_F.8.3

WBS Hierarchy: Letting

Work Package ID: TMPL2002

Organization: Office of Project Management & Technical Support (OPMTS)

Functional Group: Pre- Letting Unit

Threshold Criteria:

Use:

- Plans and special provisions that need Central Office approval and require more Central Office coordination, federal review, district involvement, and agreements. The complex process B projects may in some cases require special letting dates to accommodate their complexity.

Prerequisites:

Blank.

Deliverable:

Proposal Package

Notes:

For additional details regarding the letting processes, see the OPMTS Pre-Letting Services Section Overview.

Gantt Chart:

[Process B Complex](#)

WBS Name: Process B PODI

WBS: WBS_F.8.4

WBS Hierarchy: Letting

Work Package ID: TMPL2004

Organization: Office of Project Management & Technical Support (OPMTS)

Functional Group: Pre- Letting Unit

Threshold Criteria:

Use:

- Plans and special provisions that need Central Office approval and require more Central Office coordination, full federal review, district involvement, and agreements.

Prerequisites:

Blank.

Deliverable:

Proposal Package

Notes:

For additional details regarding the letting processes, see the OPMTS Pre-Letting Services Section Overview.

Gantt Chart:

[Process B PODI](#)

WBS Name: Prequalification (Tech Proposal)

WBS: WBS_F.8.5

WBS Hierarchy: Letting

Work Package ID: TMPL 2003

Organization: Office of Project Management & Technical Support (OPMTS)

Functional Group: Pre- Letting Unit

Threshold Criteria:

Use:

- Typical prequal projects, which consist of plans that follow the standard Typical Process B format, but have additional time allotted for a 2-step advertisement period to determine which contractors are eligible to bid on the price proposal and the evaluation of the price proposals to determine the apparent low bidder.

Prerequisites:

Blank.

Deliverable:

Proposal Package

Notes:

For additional details regarding the letting processes, see the OPMTS Pre-Letting Services Section Overview.

Gantt Chart:

[Prequalification \(Tech Proposal\)](#)

WBS Name: Design Build

WBS: WBS_F.8.7

WBS Hierarchy: Letting

Work Package ID: TEMP2005

Organization: Office of Project Management & Technical Support (OPMTS)

Functional Group: Design Build

Threshold Criteria:

Use:

- Design-build projects.

Prerequisites:

Blank.

Deliverable:

Proposal Package

Notes:

You will need input from the design-build project manager to create a design-build schedule. After adding this work package, contact the design-build project managers for their input.

Gantt Chart:

[Design Build](#)

Appendix 1: Work Package Detailed Requirements

Environmental

Contaminated Materials Management Special Provisions

Definition of the work package

Contaminated Material Management Special Provisions summarize known contamination and outline the appropriate actions to be taken for the proper handling, treatment and fate of contaminants during construction as well as provide contingency plans for unknowns encountered during construction. Typically the results of the Phase I and Phase II Environmental Site Assessments (see work package "Phase I and Phase II Environmental Site Assessment") are used to develop the Contaminated Material Management Special Provisions. Commonly, areas of concern with known or suspected soil, sediment, or groundwater contamination, or regulated waste or debris are identified relative to stationing on construction plans. Contaminated Materials Management Special Provisions define proper methods for the contractor to handle, treat, and/or dispose of contaminated materials. Common examples include special handling requirements for contaminated soil, disposal of contaminated soil in a Minnesota or other MnDOT approved permitted landfill and treatment of contaminated groundwater prior to discharging.

Generally, who needs the work package?

The Contaminated Materials Management Team (CMMT), project manager, construction engineer and district staff handling the project specifications need the work package. The CMMT drafts the provisions. The district reviews the special provisions and adds data (volume) and makes any changes needed. These items are typically not included in the project plan sheets. The reviewed special provisions are then sent back to the CMMT for a final review.

What is the purpose of the work package, what is it used for?

The purpose of the work package is to protect MnDOT from liability related to handling, treatment and fate of contaminated materials by defining the proper methodologies in the construction contract. Completion of the work package also identifies occurrences of contaminated materials that will be encountered during construction, allowing for proper planning to minimize project delays.

When is the work package needed, or when is the work package not needed?

The work package is needed when known or suspected contaminated materials will be impacted by the project. This is indicated by the additional work package "Phase I and Phase II Environmental Sites Assessment". The work package may be omitted when CMMT deems the risk of encountering contaminated materials on the project is low.

Why the work package is needed (Federal requirement? State requirement?)

State law requires that all persons properly manage contaminated soil and water they uncover or disturb, even if they are not the party responsible for the contamination. Improper management of contaminated soil or water can expose a landowner or developer or construction entities to environmental liability and administrative penalties and/or fines. In addition, response actions may be necessary to manage risk to human health or to the environment posed by potential exposure to contaminants or to mitigate risk to groundwater or surface water.

What is/are the deliverable(s)?

The deliverable is the contaminated materials management special provisions number 2105 for inclusion in the bid package.

Environmental Due Diligence 1 (EDD-1)

Definition of the work package

EDD-1 is the first step in the Environmental Due Diligence (EDD) process. The District or Local Governmental Agency (LGA) provides general project data, which is then entered into the REALMS database by the District, and provides a link to a map showing the beginning and ending location of the project area. The Contaminated Materials Management Team (CMMT) uses the information provided to evaluate the general project area and make a determination regarding the need for additional evaluation. There are three potential responses: The CMMT determines that the project area has a low probability of acquiring a contaminated parcel and therefore does not require completion of the EDD-2; the CMMT determines that additional evaluation of the project area for potential contamination requires completion of the EDD-2 by the MnDOT Project Manager; or the CMMT determines that a High Risk of environmental liability exists within the project area and an EDD-2 and EDD-3 must be completed. A description of the determination and comments are also provided by the CMMT in REALMS. The EDD process does not replace the ENM process.

Generally, who needs the work package?

The Contaminated Materials Management Team (CMMT), District right of way, and project manager or LGA need the work package. The District (or LGA) enters general project data into REALMS for CMMT review. The district then emails CMMT to let them know that the EDD-1 data has been entered into REALMS. CMMT provides a response in REALMS and then emails the district right of way to let them know that they have provided a response in REALMS.

What is the purpose of the work package, what is it used for?

The purpose of the work package is to manage environmental risk associated with property transactions. The EDD-1 review is a cursory review of the project area to identify potential contaminated/regulated material issues.

When is the work package needed, or when is the work package not needed?

The EDD-1 form is needed for all MnDOT and cooperative projects that include MnDOT property transaction(s), including:

- Fee
- Permanent easements (e.g., highway, transportation, slope, wall maintenance, drainage)
- Temporary easements (e.g., construction, building removal)
- Acquiring permission to use property under the terms of a lease or a permit
- Commissioner's Orders on roadways of other jurisdictions
- Transfers of custodial control
- Excess property
- Rail bank
- Facilities (including shared facilities)
- Any project in which a local unit of government or other party acquires property with the expectation that MnDOT must become the owner

Why the work package is needed (Federal requirement? State requirement?)

As a Directive by Commissioner's Staff the EDD policy was developed to guide MnDOT decisions regarding contaminated property transactions as a means to address project needs and manage environmental risk each time MnDOT acquires real property. The EDD-1 form is the first step in the process.

What is/are the deliverable(s)?

The deliverable is a completed EDD-1 data field in the REALMS database.

Environmental Due Diligence 2 (EDD-2)

Definition of the work package

EDD-2 is the potential second step in the Environmental Due Diligence (EDD) process. The District provides specific parcel(s) information considered for acquisition into the REALMS database including a link to a map depicting the specific acquisition location(s) including the exact portion of the parcel that is proposed for acquisition and individual parcels proposed for acquisition. The Contaminated Materials Management Team (CMMT) uses the parcel information provided to direct completion of (or guide the LGA) in environmental investigations of parcels as necessary. The CMMT also identifies parcels that may present high risk to the department that will require an EDD-3 analysis. For properties that do not require an EDD-3, the CMMT determines whether investigation and/or liability assurances are required for each parcel acquisition. The ultimate goal is to clear these properties as related to potential environmental impacts for acquisition. The completion of the form may be an iterative process as investigations are completed and/or liability assurances are obtained for parcels.

Generally, who needs the work package?

The Contaminated Materials Management Team (CMMT), the district right of way, and the Local Governmental Agency (LGA) need the work package. The District provides parcel specific data into the REALMS database for CMMT to review and approve parcel acquisition. The district then emails CMMT to let them know that the EDD-2 data has been entered into REALMS. CMMT approves individual parcels in REALMS and then emails the district right of way to let them know that the parcels have been approved for acquisition in REALMS. Parcels may be approved at different times depending on the contamination associated with each property, the completion of drilling for a parcel, or the need for regulatory liability prior to the approval of acquisition of a parcel. .

What is the purpose of the work package, what is it used for?

The purpose of the EDD-2 form is for the District (or LGA) to communicate specific parcel acquisition information to the CMMT and for the CMMT to review the information and environmentally clear parcels for acquisition.

When is the work package needed, or when is the work package not needed?

The EDD-2 is needed as determined through the EDD-1 review. The CMMT makes the determination if EDD-2 is needed.

Why the work package is needed (Federal requirement? State requirement?)

As a Directive by Commissioner's Staff the Environmental Due Diligence policy was developed to guide MnDOT decisions regarding contaminated property transactions as a means to address project needs and manage environmental liability and risk. The EDD-2 form is the potential second step in the process.

What is/are the deliverable(s)?

The deliverable is a completed EDD-2 section in the REALMS database. The EDD-2 data field will be updated by CMMT as properties are cleared for acquisition.

Environmental Due Diligence 3 (EDD-3)

Definition of the work package

The EDD-3 analysis is the potential third step in the Environmental Due Diligence (EDD) process. EDD-3 applies to high liability risk parcels only. By completing the EDD-3 form the District or Local Government Authority (LGA), and Contaminated Materials Management Team (CMMT) compile information to summarize environmental costs and liability, consider measures to avoid the parcel(s), and consider measures available to mitigate liability risk. EDD-3 provides the means to identify project needs and risks and include management in the decision process. The EDD-3 form includes five parts: (1) project information completed by the District or LGA Project Manager (2) the CMMT determination of high-risk criteria and liability (3) risk analysis documentation completed by the CMMT and District Project Manager and District Management (4) responsible district signatures (5) Office of Environmental Stewardship (OES) signatures and (6) management signatures including sign off by the Deputy Commissioner.

Generally, who needs the work package?

The District Project Manager and District Management, LGA (if applicable), and CMMT compile information in the EDD-3 form and are required to sign off on the form. The Deputy Commissioner is also required to make a final determination as to acquisition(s) and sign off on the form.

What is the purpose of the work package, what is it used for?

The purpose of the EDD-3 form is to summarize benefits and risks of acquiring the property, all feasible and practicable risk mitigation options (such as project design changes to avoid or limit use of the property), and liability protections available from regulatory agencies. Information contained in this form is supplied by the District, CMMT, Right of Way, consultant reports, regulatory files, agreements between property owners and local agencies.

When is the work package needed, or when is the work package not needed?

EDD-3 is needed when the EDD-1 and/or EDD-2 indicate that the property being acquired has a high risk of liability to MnDOT. The CMMT determines if EDD-3 is needed. The form should be initiated approximately 24 months before the project let date or parcel acquisition (whichever happens first). Sites that require the EDD-3 meet at least one of the following criteria: cleanup costs would exceed \$500,000 or 10% of total capital project costs, on-going cleanup is required or there are other regulatory obligations, and/or land uses are high risk (e.g., uncontrolled dumps, Federal Superfund Sites, large-scale manufacturing, etc.).

Why the work package is needed (Federal requirement? State requirement?)

As a Directive by Commissioner's Staff the EDD policy was developed to guide MnDOT decisions regarding contaminated property transactions as a means to address project needs and manage environmental risk. The EDD-3 form is the potential third and final step in the process.

What is/are the deliverable(s)?

The deliverable is a completed EDD-3 form.

Environmental Site Assessment (Phase I & II)

ESA (Phase I)

Definition of the work package

A Phase I Environmental Site Assessment (ESA) is an environmental review completed to determine recognized environmental conditions (RECs) for the project. A Phase I ESA consists of the following general tasks: a records review of state and federal registered hazardous waste storage/generator and

release sites, a review of historical documents, a site reconnaissance (may be limited if right of entry is not available), and interviews. All identified RECs within 500 feet of the construction limits are ranked as "high," "medium," or "low" potential for contamination. The Phase I ESA also includes a summary of known releases and previous investigations documented at the Minnesota Pollution Control Agency (MPCA), Minnesota Department of Agriculture (MDA), and United States Environmental Protection Agency (EPA).

Generally, who needs the work package?

The Contaminated Materials Management Team (CMMT) and project manager need the work package. CMMT contracts with an environmental consultant to perform the Phase I Environmental Site Assessment. The District may need to provide right of access to the CMMT if site reconnaissance will need to be completed beyond publicly accessible areas.

What is the purpose of the work package, what is it used for?

The purpose of the Phase I ESA is to assess the likelihood that past or current practices at a property or nearby properties could have resulted in contaminating soil or groundwater. Phase I information is needed to determine the likely location of known contamination and to provide CMMT with information on what areas or properties should be sampled, either by drilling or trenching, to characterize the contamination (Phase II). The Phase I ESA and Phase II (See Work Package "Phase II Environmental Site Assessment") together provide the information necessary for environmental planning purposes as related to construction and to obtain liability determinations from regulatory agencies to manage risk associated with management of contaminated materials and acquisition of contaminated property. The Phase I ESA is required by the MPCA to join the Voluntary Investigation Program on all properties for which MnDOT is seeking environmental liability protection.

When is the work package needed, or when is the work package not needed?

The work package is needed if the ENM Response or EDD forms indicate that a Phase I ESA is needed. The CMMT determines when the work package is needed.

Why the work package is needed (Federal requirement? State requirement?)

Completion of a Phase I ESA allows MnDOT to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations as per the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) liability protection. In order to qualify for CERCLA liability protection the Phase I is completed under ASTM 1527 and All Appropriate Inquiry (AAI) practices meeting 42 U.S.C. §9601(35) (B).

A Phase I ESA is required to obtain liability protection or Response Action approval from the Minnesota Pollution Control Agency or Minnesota Department of Agriculture (See work packages "No Association Determination" and "Response Action Plan").

Information from the Phase I and subsequent investigations are used to determine how contaminated materials will be managed on a project to meet regulatory requirements and how those actions will affect project cost.

What is/are the deliverable(s)?

The deliverable includes a report prepared by a consultant, submitted to the CMMT. The CMMT will provide a copy of the report to the District Project Manager if requested. The Phase I ESA can be put into the project contractor bid data as reference information.

ESA (Phase II)

Definition of the work package

The Phase II ESA consists of collection of soil, water, soil vapor, sediment, and/or waste samples and laboratory analysis of these samples in order to determine whether or not contamination is present in the materials associated with a specific property or area (soil, groundwater etc.). Commonly the Phase II investigation includes advancing soil borings or test pits to collect soil and groundwater samples. Potential areas of concern for contamination are determined through a Phase I ESA or similar environmental review. The CMMT in conjunction with an environmental consultant review the findings of the Phase I ESA, the construction plans, and parcel acquisitions to determine sampling locations, depths, and chemical parameters for the Phase II investigation.

Generally, who needs the work package?

The Contaminated Materials Management Team (CMMT) and project manager need the work package. The CMMT contracts with an environmental consultant to perform the Phase II Environmental Site Assessment. The District must provide right of access to the CMMT for investigation activities outside of current MnDOT right of way.

What is the purpose of the work package, what is it used for?

The Phase I ESA (see Work Package "Phase I Environmental Site Assessment") and Phase II together provide the information necessary for environmental planning purposes as related to construction. The Phase II ESA is used to determine areas, magnitude, and extent of contamination that may be encountered during construction or that may be present on property that MnDOT will be acquiring. The findings of the Phase II ESA will be used to prepare construction special provisions and potentially a "Response Action Plan" (See Work Package "Response Action Plan"). The Phase II ESA is required by the MPCA on all properties for which MnDOT is seeking environmental liability protection to determine the "identified release" on the property (See Work Package "No Association Determination").

When is the work package needed, or when is the work package not needed?

The work package is needed if the previous environmental reviews (See Work Packages "ENM Response", "Phase I Environmental Site Assessment" and "EDD-2 Response") determine that there are environmental concerns for construction and/or property acquisitions.

Why the work package is needed (Federal requirement? State requirement?)

The work package is needed to obtain information for liability protections from the regulatory authorities and to plan for construction actions to comply with applicable state and federal requirements.

What is/are the deliverable(s)?

The deliverable includes a report prepared by a consultant, submitted to the CMMT. The CMMT will provide a copy of the report to the District Project Manager if requested. Additional deliverables resulting from the Phase II ESA include Special Provisions and may be used as reference information documents (RID).

No Association Determination (NAD)

Definition of the work package

When MnDOT acquires or holds easement on a site contaminated with a hazardous substance, pollutant or contaminant, MnDOT could become a responsible party for the cleanup of contamination located on the parcel that was acquired. The No Association Determination (NAD) provides one level of protection from this liability. The NAD is a determination from the Minnesota Pollution Control Agency (MPCA) or Minnesota Department of Agriculture (MDA) that the specific actions proposed by MnDOT (or Local Government Agency [LGA]) will not associate MnDOT with the identified contamination.

To obtain a NAD, MnDOT Contaminated Materials Management Team (CMMT) submits a NAD request including the findings of the Phase I and Phase II ESAs prior to acquisition to either the MPCA or MDA.

The letter includes proposed actions that MnDOT will take at the site. Typical proposed actions include improvements, development, operation, and/or maintenance of the property.

Generally, who needs the work package?

The CMMT, district right of way, and project manager need the work package. The NAD, if needed, is required prior to property acquisitions. The CMMT obtains the No Association Determination and supplies a copy to the District Project Manager and copies the District Right of Way Project Manager.

What is the purpose of the work package, what is it used for?

The purpose of the NAD is to obtain parcel environmental liability protection from association with contamination at the property.

When is the work package needed, or when is the work package not needed?

The NAD is needed when a property acquisition is occurring on a parcel that has non-petroleum related contaminated soil, groundwater, soil vapor, surface water, or sediment above regulatory limits or buried solid waste. The NAD should be obtained prior to the property acquisition.

To be eligible for a NAD, the following criteria must be met:

- The property must have an identified release of a hazardous substance, pollutant, or contaminant in soil, groundwater, soil gas, surface water, or sediment;
- MnDOT must have an ownership interest in the property; and
- MnDOT cannot store or use the chemicals that are included as the identified release in the NAD, or allow others to do so.

Why the work package is needed (Federal requirement? State requirement?)

The liability protection is defined by Minnesota Statute - Minn. Stat. § 115B.03, subd. 3(4).

What is/are the deliverable(s)?

The deliverable is a letter document from the regulator titled "No Association Determination". There is a waiting period of 30 business days between the MnDOT application for a NAD and the response letter.

Phase I Update

Definition of the work package

See Work Package Definition for Phase I Environmental Site Assessment (ESA). In order for the MPCA to accept a Phase I ESA as a submittal to obtain liability protection, the Phase I ESA must be no older than one year. An older Phase I ESA can be submitted with a Phase I ESA update. The Phase I ESA Update includes new information since the previous Phase I was completed (e.g. changes in property use or newly reported releases).

Generally, who needs the work package?

The Contaminated Materials Management Team (CMMT) contracts with an environmental consultant to perform the Phase I ESA Update. The District may need to provide right of access to the CMMT if site reconnaissance will need to be completed beyond publicly accessible areas.

What is the purpose of the work package, what is it used for?

See Work Package Definition for Phase I Environmental Site Assessment (ESA). The purpose of the Phase I ESA Update is to review new information available since the previous Phase I ESA was completed (e.g. changes in property use or newly reported releases) and meet the minimum requirements of the MPCA/MDA for liability protection.

When is the work package needed, or when is the work package not needed?

The CMMT determines when the work package is needed. It is needed if a Phase I ESA was previously completed and an update is necessary for potential regulatory involvement or if the area of a project is extended after the Phase I was completed and the new area is not included in the original Phase I.

Why the work package is needed (Federal requirement? State requirement?)

Completion of a Phase I ESA allows MnDOT to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) liability protection. In order to qualify for CERCLA liability protection the Phase I is completed under ASTM 1527 and All Appropriate Inquiry (AAI) practices meeting 42 U.S.C. §9601(35) (B) and may also require completion of Phase I update depending on when the Phase I was completed.

A Phase I ESA is required to obtain liability protection or Response Action approval from the Minnesota Pollution Control Agency or Minnesota Department of Agriculture (See work packages "No Association Determination" and "Response Action Plan").

Information from the Phase I ESA and subsequent investigations is used to determine how contaminated materials will be managed on a project to meet regulatory requirements and how those actions will affect project cost.

What is/are the deliverable(s)?

The deliverable includes an update report prepared by a consultant, submitted to the CMMT. The CMMT will provide a copy of the report to the District Project Manager if requested. The Phase I ESA Update can be put into the project contractor bid data as reference information.

Phase II Update

Definition of the work package

See Work Package Definition for Phase II ESA. A Phase II Update may be completed to satisfy changing project needs (e.g. a new parcel will be acquired or construction plans change) or to obtain data for liability assurances. Typically, in order to obtain liability protection, recent analytical data must be submitted (generally less than 2 years prior to property acquisition or other actions depending on the type of contaminant).

Generally, who needs the work package?

The Contaminated Materials Management Team (CMMT) contracts with an environmental consultant to perform the Phase II Environmental Site Assessment Update. The District may need to provide right of access to the CMMT for investigation activities outside of current MnDOT right of way.

What is the purpose of the work package, what is it used for?

See Phase II ESA work package definition.

When is the work package needed, or when is the work package not needed?

The CMMT determines when the work package is needed. The work package is needed if the previous environmental reviews (See Work Packages "ENM Response", "Regulatory File Review", "Phase I Environmental Site Assessment" and "EDD-2 Response") determine that there are environmental concerns for construction and/or property acquisitions that are not covered by previous environmental reviews or when a project has been delayed long enough that the analytical is no longer acceptable to the regulatory agencies.

Why the work package is needed (Federal requirement? State requirement?)

The work package is needed to obtain information for liability protections and to enable construction actions to comply with applicable state and federal requirements.

What is/are the deliverable(s)?

The deliverable includes a report prepared by a consultant, submitted to the CMMT. The CMMT will provide a copy of the report to the District Project Manager if requested. Additional deliverables resulting from the Phase II ESA include Special Provisions and may be used as reference information documents (RID).

Regulatory File Review

Definition of the work package

The Minnesota Pollution Control Agency (MPCA) and Minnesota Department of Agriculture (MDA) collect and retain records regarding known chemical releases, hazardous waste generators, petroleum storage tanks, and spills. This information is useful to evaluate potential impacts to a project or to determine if liability protection will be needed for property acquisition. The files reviewed typically supply environmental data about the known release sites (e.g. leaking underground storage tanks, and other contaminated sites) or other sites that may be contaminated (such as sites with chemical storage). These files often give details regarding locations and concentrations of contamination. Additionally, the files contain information on properties with institutional controls or environmental covenants to alert property users of any restrictions regarding development of the contaminated property.

Generally, who needs the work package?

The Contaminated Materials Management Team (CMMT) contracts with an environmental consultant to perform the file review or conducts the work themselves.

What is the purpose of the work package, what is it used for?

The purpose of the file review is to obtain information regarding potential environmental impacts on the project. The intent is to determine if additional evaluation is needed or to provide information to include in project Special Provisions.

When is the work package needed, or when is the work package not needed?

The CMMT determines when the work package is needed based on the findings of the scoping, ENM or EDD-1 review. The CMMT may determine that regulatory file review(s) will be needed based on the project components in relation to release sites.

Why the work package is needed (Federal requirement? State requirement?)

The work package is needed to obtain information for additional project planning in relation to contaminated material management.

What is/are the deliverable(s)?

The deliverable includes a summary of the findings of the file review and excerpts from the file reviews. The CMMT may use the regulatory file review to update the ENM response. Additional deliverables resulting from the file review include project Special Provisions.

Response Action Plan (RAP)

Definition of the work package

If contamination is encountered during the Phase II investigation and MnDOT seeks liability protection or seeks approval for the reuse of soil that does not qualify as unregulated fill, a Response Action Plan (RAP) is prepared and submitted for approval to the regulatory authority. The RAP documents the activities that are to be performed during construction to properly manage contamination. Response actions include construction-related and risk-based. Construction-related response actions include managing contaminated soil and groundwater that needs to be removed solely for construction or geotechnical purposes. Construction-related response actions may also include design elements to

mitigate soil vapor intrusion/migration and groundwater migration. Risk-based response actions are completed to remediate source areas. MnDOT may complete both construction related response actions and risk-based response actions depending on the project activities.

Generally, who needs the work package?

If MnDOT seeks liability assurance under state statute or Minnesota Pollution Control Agency (MPCA) or Minnesota Department of Agriculture (MDA) assurances, the RAP must be approved by the MPCA and/or MDA before implementing response actions or beginning construction. MnDOT Contaminated Materials Management Team (CMMT) and design engineer need the work package. If a RAP is completed for a project, it will need to be referenced in the construction contract documents and made available for bidders. Elements of the RAP may need to be incorporated into design. The approval letter from the regulatory agency will also need to be incorporated so that any conditions that the agency puts in the approval letter are also followed.

What is the purpose of the work package, what is it used for?

The purpose of the RAP is to obtain liability protection for the project after showing that the management of contaminated materials encountered during construction was done in accordance with the plan.

When is the work package needed, or when is the work package not needed?

RAP is needed for properties enrolled in the MPCA Brownfield Program or MDA Agricultural Voluntary Investigation and Cleanup (AgVIC) Program.

Why the work package is needed (Federal requirement? State requirement?)

State law requires that all persons properly manage contaminated soil and water they uncover or disturb, even if they are not the party responsible for the contamination. Improper management of contaminated soil or water can expose a landowner or developer to environmental liability and administrative penalties and/or fines. In addition, response actions may be necessary to manage risk to human health or the environment posed by potential exposure to contaminants or to mitigate risk to groundwater or surface water.

Per Minn. Stat. § 115B.175 subd. 4, non-responsible parties conducting response actions for a release of hazardous substances in accordance with an approved RAP do not associate themselves with the release as a result of performance of those response actions. Minn. Stat. § 115B.03 subd. 10 provides similar liability protection to contractors for implementation of response actions or site development activities, provided that the contractor performs those actions in accordance with an MPCA or MDA-approved plan.

What is/are the deliverable(s)?

The CMMT submits a RAP report to the MPCA/MDA and receives an approval letter from the MPCA/MDA for the RAP. There is a minimum waiting period of 30 business days between the MnDOT application for a NAD and the response letter. For some projects, the RAP may need to be approved prior to advertisement.

ADA

Purpose

The purpose of this document is to provide guidance on using the correct activity durations and role hours in the ADA work package for schedules that are under review. Only use this guide as a starting point. Contact the ADA Unit (Joe Zilka at Joseph.Zilka@state.mn.us) if you need any adjustments or exceptions.

Project Size

Activity durations and role hours may change depending on the size of the project. The Project Manager (PM) determines the size of the project based on either intersections/blocks or project type. Once the PM has determined the project size, the Project Management Shared Service Center (SSC) scheduler can update the ADA activity durations and role hours in the schedule that is under review.

Project Size Based on the Number of Intersections or Blocks

The following table lists project sizes for different numbers of intersections or blocks.

Project Size	Number of Intersections	Number of Blocks of Sidewalk
Small	≤ 2	0
Medium	3 to 6	1 to 5
Large	7 to 11	6 to 10
Major	12+	11+

1. Number of intersections

Count all intersections equally. Not that driveways and alleys are not intersections. Count T intersections as one intersection. Some intersections may be offset. If an intersection has an offset but is evidently one intersection, do NOT double count it. (You would count the intersection in the photo as one intersection.)

2. Number of Sidewalk Blocks

Measure the total distance of sidewalk from landing to landing along the same block and add up all of the liner feet. Divide that sum by 300 feet (300 feet per block of sidewalk) to obtain the number of sidewalk blocks. Bridge sidewalks do not typically count, but if you have a large number of sidewalks (greater than 10 blocks) you can include them for simplicity's sake.



Project Size Based on Type

There are some variations when resource loading schedules based on project type depending on the size of the project:

1. Rest Area: Use SMALL, unless directed otherwise;
2. Roundabouts: At a minimum, use MEDIUM. Use LARGE if there are two or more roundabouts; and
3. Reconstruction: Use LARGE if there are at least two intersections. If the project has more 12 or more intersections, use MAJOR.

Durations

Use the durations in the following table for ADA activities.

Project Size	ADA1010 Conduct ADA Field Walk and Prepare Recommendations (days)	ADA1030 Finalize ADA Recommendations (days)	ADA2000 ADA Plan Review #1 (days)	ADA3000 ADA Plan Review #2 (days)
Small & Medium	15	10	10	10
Large & Major	15	10	15	15

Role Loading

Small projects

Role	ADA1010 Conduct ADA Field Walk & Compare Recommendations (hours)	ADA1030 Finalize ADA Recommendations (hours)	ADA2000 ADA Plan Review #1 (hours)	ADA3000 ADA Plan Review #2 (hours)
ADA Manager	2	1	3	3
ADA Engineer	8	1	6	6
Senior ADA Technician	9	0	0	0
ADA Technician	0	0	0	0

Medium projects

Role	ADA1010 Conduct ADA Field Walk & Compare Recommendations (hours)	ADA1030 Finalize ADA Recommendations (hours)	ADA2000 ADA Plan Review #1 (hours)	ADA3000 ADA Plan Review #2 (hours)
ADA Manager	6	1	8	8
ADA Engineer	20	1	16	16
Senior ADA Technician	22	2	0	0
ADA Technician	0	0	0	0

Large projects

Role	ADA1010 Conduct ADA Field Walk & Compare Recommendations (hours)	ADA1030 Finalize ADA Recommendations (hours)	ADA2000 ADA Plan Review #1 (hours)	ADA3000 ADA Plan Review #2 (hours)
ADA Manager	18	2	12	12
ADA Engineer	30	2	24	24
Senior ADA Technician	33	4	0	0
ADA Technician	6	0	0	0

Major projects

Role	ADA1010 Conduct ADA Field Walk & Compare Recommendations (hours)	ADA1030 Finalize ADA Recommendations (hours)	ADA2000 ADA Plan Review #1 (hours)	ADA3000 ADA Plan Review #2 (hours)
ADA Manager	30	4	20	20
ADA Engineer	50	3	40	40
Senior ADA Technician	50	0	0	0
ADA Technician	12	0	0	0

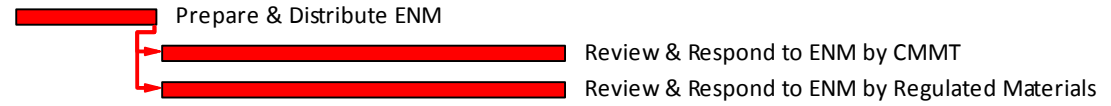
Appendix 2: Work Package Figures

General

The following pages provide visual layouts defining the activity structure contained within specific work packages. The logic identified between specific activities has been identified by each Office/Functional Area as necessary pre and post requisites to complete planned work. There may be instances where additional/less logic is preferred/required/desired to demonstrate the plan to complete the work needed for a project. This determination will be considered through communication between Project Managers and Functional Offices.

Please contact your SSC representative if you need guidance interpreting the visual layouts or have any accessibility needs.

		Early Notification Memo			2018				
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	Jul	Aug	Sep	Oct	Nov	
Early Notification Memo			40						
Early Notification Memo			40						
ENM1000	Prepare & Distribute ENM	Districts.Environmental	10						
ENM1020	Review & Respond to ENM by CMMT	Construction & Ops.Cont. Mat. MT	30						
ENM1030	Review & Respond to ENM by Regulated Materials	Construction & Ops.Reg. Mat. MT	30						




				Cultural Resources - Work Package 1 Full CRU Review																								
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2017												2018						2019						
				Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	
Cultural Resources - Work Package 1 Full CRU Review				429																								
Cultural Resources - Work Package 1 Full CRU Review				429																								
Preliminary Assessment				43																								
CRU1000	Received ENM	Pre-Construction.Cultural Resources	0	◆ Received ENM																								
CRU1020	Conduct Preliminary CRU Evaluation	Pre-Construction.Cultural Resources	10	■ Conduct Preliminary CRU Evaluation																								
CRU1030	Conduct Tribal, MIAC, and OSA Consultation	Pre-Construction.Cultural Resources	45	■ Conduct Tribal, MIAC, and OSA Consultation																								
Architectural History				230																								
CRU2000	Acquire Architectural History Consultant	Pre-Construction.Cultural Resources	45	■ Acquire Architectural History Consultant																								
CRU2010	Conduct Architectural History (Phase 1) Investigation	Pre-Construction.Cultural Resources	80	■ Conduct Architectural History (Phase 1) Investigation																								
CRU2020	Architectural History (Phase 1) Review	Pre-Construction.Cultural Resources	15	■ Architectural History (Phase 1) Review																								
CRU2030	Conduct Architectural History (Phase 2) Investigation	Pre-Construction.Cultural Resources	80	■ Conduct Architectural History (Phase 2) Investigation																								
CRU2040	Architectural History (Phase 2) Review	Pre-Construction.Cultural Resources	10	■ Architectural History (Phase 2) Review																								
Archeology				321																								
CRU3000	Acquire Archeology Consultant	Pre-Construction.Cultural Resources	45	■ Acquire Archeology Consultant																								
CRU3010	Conduct Archeology (Phase 1) Investigation	Pre-Construction.Cultural Resources	80	■ Conduct Archeology (Phase 1) Investigation																								
CRU3020	Archeology (Phase 1) Review	Pre-Construction.Cultural Resources	15	■ Archeology (Phase 1) Review																								
CRU3030	Conduct Archeology (Phase 2) Investigation	Pre-Construction.Cultural Resources	80	■ Conduct Archeology (Phase 2) Investigation																								
CRU3040	Archeology (Phase 2) Review	Pre-Construction.Cultural Resources	10	■ Archeology (Phase 2) Review																								
Historic Property Findings and Agreements				98																								
CRU1300	Prepare & Distribute CRU Findings Letter	Pre-Construction.Cultural Resources	15	■ Prepare & Distribute CRU Findings Letter																								
CRU1320	Obtain SHPO Concurrence (When Applicable)	Pre-Construction.Cultural Resources	35	■ Obtain SHPO Concurrence (When Applicable)																								
CRU1370	Prepare Agreement (Memorandum or Programmatic)	Pre-Construction.Cultural Resources	60	■ Prepare Agreement																								








■ Remaining Level of Effort
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Cultural Resources - Work Package 2 Abbreviated CRU Review

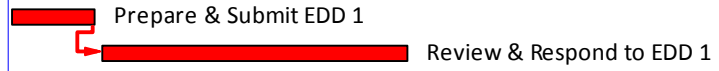
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2018					
				Jul	Aug	Sep	Oct	Nov	Dec
Cultural Resources - Work Package 2 Abbreviated CRU Review			53						
Cultural Resources - Work Package 2 Abbreviated CRU Review			53						
CRU1000	Received ENM	Pre-Construction.Cultural Resources	0	◆ Received ENM					
CRU1020	Conduct Preliminary CRU Evaluation	Pre-Construction.Cultural Resources	10	█ Conduct Preliminary CRU Evaluation					
CRU1030	Conduct Tribal, MIAC, and OSA Consultation	Pre-Construction.Cultural Resources	45	█ Conduct Tribal, MIAC, and OSA Consultation					
CRU1040	Receive & Review Tribal Findings; Prepare & Send CRU Findings Letter	Pre-Construction.Cultural Resources	10	█ Receive & Review Tribal Findings; Prepare & Send CRU Findings Letter					

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		Regulatory File Review			2018					
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	Jul	Aug	Sep	Oct	Nov	Dec	
Regulatory File Review			55							
Regulatory File Review			55							
RFR1002	Conduct Regulatory File Review	Construction & Ops.Cont. Mat. MT	55	 Conduct Regulatory File Review						

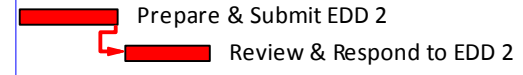
 Remaining Level of Effort
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 Milestone
 Milestone

		Environmental Due Diligence 1			2015				
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	Jul	Aug	Sep	Oct	Nov	Dec
Environmental Due Diligence 1			25						
Environmental Due Diligence 1			25						
EDD1000	Prepare & Submit EDD 1	Districts.Project Management	5		█				
EDD1010	Review & Respond to EDD 1	Construction & Ops.Cont. Mat. MT	20			█			



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		Environmental Due Diligence 2			2016			
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	Jul	Aug	Sep	Oct	
Environmental Due Diligence 2			10					
Environmental Due Diligence 2			10					
EDD2000	Prepare & Submit EDD 2	Districts.Project Management	5					
EDD2010	Review & Respond to EDD 2	Construction & Ops.Cont. Mat. MT	5					



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				Environmental Due Diligence 3																							
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2015						2016						2017											
				Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	
Environmental Due Diligence 3			403																								
Environmental Due Diligence 3			403																								
EDD3000	Prepare & Submit EDD 3 (See the Description Notebook)	Districts.Project Management	88																								
EDD3012	Review & Respond to EDD 3	Construction & Ops.Cont. Mat. MT	315																								

█ Remaining Level of Effort
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		Environmental Site Assessment (Phase I II) No Acquisition																					
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2018						2019						2020							
				Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
Environmental Site Assessment (Phase I & II) No Acquisition			391																				
Environmental Site Assessment (Phase I & II) No Acquisition			391																				
Consultant Acquisition			45																				
ESA3002	Acquire Environmental Site Assessment Consultant	Construction & Ops.Cont. Mat. MT	45																				
Phase I			105																				
ESA3030	Prepare Draft Phase I Part A	Construction & Ops.Cont. Mat. MT	40																				
ESA3040	Conduct Site Visit	Construction & Ops.Cont. Mat. MT	5																				
ESA3050	Prepare Draft Phase I Part B	Construction & Ops.Cont. Mat. MT	40																				
ESA3060	Review & Finalize Phase I	Construction & Ops.Cont. Mat. MT	20																				
Phase II			261																				
ESA3500	Develop Work Plan For Drilling	Construction & Ops.Cont. Mat. MT	10																				
ESA3520	Complete Drilling & Discuss Field Findings With Consultant	Construction & Ops.Cont. Mat. MT	60																				
ESA3532	Obtain Analytical Results & Determine Liability Protection	Construction & Ops.Cont. Mat. MT	50																				
ESA3550	Complete Draft Phase II Report	Construction & Ops.Cont. Mat. MT	65																				
ESA3560	Review & Finalize Phase II ESA	Construction & Ops.Cont. Mat. MT	30																				

█ Remaining Level of Effort
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		Environmental Site Assessment (Phase I & II) Early Acquisition																									
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2018												2019					2020						
				Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr		
Environmental Site Assessment (Phase I & II) Early Acquisition			391																								
Environmental Site Assessment (Phase I & II) Early Acquisition			391																								
Consultant Acquisition			45																								
ESA1002	Acquire Environmental Site Assessment Consultant	Construction & Ops.Cont. Mat. MT	45																								
Phase I			105																								
ESA1030	Prepare Draft Phase I Part A	Construction & Ops.Cont. Mat. MT	40																								
ESA1040	Conduct Site Visit	Construction & Ops.Cont. Mat. MT	5																								
ESA1050	Prepare Draft Phase I Part B	Construction & Ops.Cont. Mat. MT	40																								
ESA1060	Review & Finalize Phase I	Construction & Ops.Cont. Mat. MT	20																								
Phase II			391																								
ESA1500	Develop Work Plan For Drilling	Construction & Ops.Cont. Mat. MT	10																								
ESA1510	Obtain Right of Entries for Drilling (ROED)	Districts.Right of Way	10																								
ESA1520	Complete Drilling & Discuss Field Findings With Consultant	Construction & Ops.Cont. Mat. MT	60																								
ESA1532	Obtain Analytical Results & Determine Liability Protection	Construction & Ops.Cont. Mat. MT	50																								
ESA1550	Complete Draft Phase II Report	Construction & Ops.Cont. Mat. MT	65																								
ESA1560	Review & Finalize Phase II ESA	Construction & Ops.Cont. Mat. MT	30																								

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		Environmental Site Assessment (Phase I & II) Acquisition																					
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2018						2019						2020							
				Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
Environmental Site Assessment (Phase I & II) Acquisition			391																				
Environmental Site Assessment (Phase I & II) Acquisition			391																				
Consultant Acquisition			45																				
ESA2002	Acquire Environmental Site Assessment Consultant	Construction & Ops.Cont. Mat. MT	45	Acquire Environmental Site Assessment Consultant																			
Phase I			105																				
ESA2030	Prepare Draft Phase I Part A	Construction & Ops.Cont. Mat. MT	40	Prepare Draft Phase I Part A																			
ESA2040	Conduct Site Visit	Construction & Ops.Cont. Mat. MT	5	Conduct Site Visit																			
ESA2050	Prepare Draft Phase I Part B	Construction & Ops.Cont. Mat. MT	40	Prepare Draft Phase I Part B																			
ESA2060	Review & Finalize Phase I	Construction & Ops.Cont. Mat. MT	20	Review & Finalize Phase I																			
Phase II			391																				
ESA2500	Develop Work Plan For Drilling	Construction & Ops.Cont. Mat. MT	10	Develop Work Plan For Drilling																			
ESA2510	Obtain Right of Entries for Drilling (ROED)	Districts.Right of Way	10	Obtain Right of Entries for Drilling (ROED)																			
ESA2520	Complete Drilling & Discuss Field Findings With Consultant	Construction & Ops.Cont. Mat. MT	60	Complete Drilling & Discuss Field Findings With Consultant																			
ESA2532	Obtain Analytical Results & Determine Liability Protection	Construction & Ops.Cont. Mat. MT	50	Obtain Analytical Results & Determine Liability																			
ESA2550	Complete Draft Phase II Report	Construction & Ops.Cont. Mat. MT	65	Complete Draft Phase II Re																			
ESA2560	Review & Finalize Phase II ESA	Construction & Ops.Cont. Mat. MT	30	Review & Finalize																			

█ Remaining Level of Effort
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 ◆ ◆ Milestone

				Phase I Update											
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2016						2017					
				Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	
Phase I Update			150												
Phase I Update			150												
Phase I Update - Consultant Acquisition			45												
PHU1002	Phase I Update - Acquire Environmental Site Assessment Consultant	Construction & Ops.Cont. Mat. MT	45	Phase I Update - Acquire Environmental Site Assessment Consultant											
Phase I Update			105												
PHU1030	Phase I Update - Prepare Draft Phase I Part A	Construction & Ops.Cont. Mat. MT	40	Phase I Update - Prepare Draft Phase I Part A											
PHU1032	Phase I Update - Conduct Site Visit	Construction & Ops.Cont. Mat. MT	5	Phase I Update - Conduct Site Visit											
PHU1034	Phase I Update - Prepare Draft Phase I Part B	Construction & Ops.Cont. Mat. MT	40	Phase I Update - Prepare Draft Phase I Part B											
PHU1040	Phase I Update - Review & Finalize Phase I	Construction & Ops.Cont. Mat. MT	20	Phase I Update - Review & Finalize Phase											

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			Phase II Update																				
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2016												2017					2018		
				Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
Phase II Update			352																				
Phase II Update			352																				
Phase II Update Consultant Acquisition			45																				
PHU2002	Phase II Update - Acquire Environmental Site Assessment Consultant	Construction & Ops.Cont. Mat. MT	45	Phase II Update - Acquire Environmental Site Assessment Consultant																			
Phase II Update			352																				
PHU2030	Phase II Update - Develop Work Plan For Drilling	Construction & Ops.Cont. Mat. MT	10	Phase II Update - Develop Work Plan For Drilling																			
PHU2040	Phase II Update - Obtain Right of Entries	Districts.Right of Way	15	Phase II Update - Obtain Right of Entries																			
PHU2050	Phase II Update - Complete Drilling & Discuss Field Findings With Consultant	Construction & Ops.Cont. Mat. MT	60	Phase II Update - Complete Drilling & Discuss Field Findings With Consul																			
PHU2062	Phase II Update - Obtain Analytical Results & Determine Liability Protection	Construction & Ops.Cont. Mat. MT	50	Phase II Update - Obtain Analytical Results & Determin																			
PHU2080	Phase II Update - Complete Draft Phase II Report	Construction & Ops.Cont. Mat. MT	65	Phase II Update - Complete Dra																			
PHU2090	Phase II Update - Review & Finalize Phase II	Construction & Ops.Cont. Mat. MT	30	Phase II Update - Rev																			

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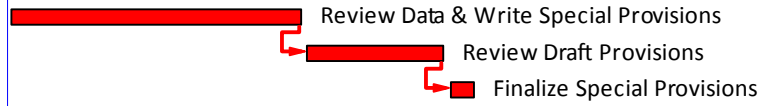
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		No Association Determination			2015					
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	Jul	Aug	Sep	Oct	Nov	Dec	
No Association Determination			55							
No Association Determination			55							
NAD1002	Obtain No Association Determination	Construction & Ops.Cont. Mat. MT	55	Obtain No Association Determination						

				Response Action Plans					
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2015					
				Jul	Aug	Sep	Oct	Nov	Dec
Response Action Plans			65						
Response Action Plans			65						
RAP1002	Obtain Response Action Plan	Construction & Ops.Cont. Mat. MT	65	 Obtain Response Action Plan					

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		Contaminated Materials Management Special Provisions			2015				
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	Jul	Aug	Sep	Oct	Nov	
Contaminated Materials Management Special Provisions			33						
Contaminated Materials Management Special Provisions			33						
CSP1000	Review Data & Write Special Provisions	Construction & Ops.Cont. Mat. MT	20	Review Data & Write Special Provisions					
CSP1010	Review Draft Provisions	Districts.Construction	10	Review Draft Provisions					
CSP1020	Finalize Special Provisions	Construction & Ops.Cont. Mat. MT	3	Finalize Special Provisions					



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		Regulated Materials Building																			
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2014						2015											
				Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
Regulated Materials Building			315																		
Regulated Materials Assessment			170																		
RMT1000	Provide Bldg Books/Sketches (if bldgs)	Districts.Project Management	0	◆ Provide Bldg Books/Sketches (if bldgs)																	
RMT1010	Prepare Scope of Work/Obtain Cost Estimate to Hire Regulated Materials Assessment Consultant	Construction & Ops.Reg. Mat. MT	5	■ Prepare Scope of Work/Obtain Cost Estimate to Hire Regulated Materials Assessment Consultant																	
RMT1020	Requisition Approval for Regulated Materials Assessment Consultant	Districts.Project Management	5	■ Requisition Approval for Regulated Materials Assessment Consultant																	
RMT1030	Execute Contract for Regulated Materials Assessment Consultant	Construction & Ops.Reg. Mat. MT	40	■ Execute Contract for Regulated Materials Assessment Consultant																	
RMT1050	Conduct Regulated Materials Assessment	Construction & Ops.Reg. Mat. MT	90	■ Conduct Regulated Materials Assessment																	
RMT1060	Review Data & Write Special Provisions	Construction & Ops.Reg. Mat. MT	30	■ Review Data & Write Special Provisions																	
Regulated Materials Abatement			145																		
RMA 1000	Prepare Scope of Work/Obtain Cost Estimate to Hire Regulated Materials Abatement Consultant	Construction & Ops.Reg. Mat. MT	10	■ Prepare Scope of Work/Obtain Cost Estimate to Hire Regulated																	
RMA 1010	Requisition Approval for Regulated Materials Abatement Contractor	Districts.Project Management	5	■ Requisition Approval for Regulated Materials Abatement Con																	
RMA 1020	Execute Contract for Regulated Materials Abatement Contractor	Construction & Ops.Reg. Mat. MT	40	■ Execute Contract for Regulated Materials Abaten																	
RMA 1030	Conduct Regulated Materials Abatement	Construction & Ops.Reg. Mat. MT	60	■ Conduct Regulated Materials																	
RMA 1040	Review Abatement Report/Submit Report to District (See Notebook Topic)	Construction & Ops.Reg. Mat. MT	30	■ Review Abatement																	

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		Regulated Materials Bridge			2014						2015				
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	
Regulated Materials Bridge			170												
Regulated Materials Assessment			170												
RMT1010	Prepare Scope of Work/Obtain Cost Estimate to Hire Regulated Materials Assessment Consultant	Construction & Ops.Reg. Mat. MT	5	■ Prepare Scope of Work/Obtain Cost Estimate to Hire Regulated Materials Assessment Consultant											
RMT1020	Requisition Approval for Regulated Materials Assessment Consultant	Construction & Ops.Reg. Mat. MT	5	■ Requisition Approval for Regulated Materials Assessment Consultant											
RMT1030	Execute Contract for Regulated Materials Assessment Consultant	Construction & Ops.Reg. Mat. MT	40	■ Execute Contract for Regulated Materials Assessment Consultant											
RMT1050	Conduct Regulated Materials Assessment	Construction & Ops.Reg. Mat. MT	90	■ Conduct Regulated Materials Assessment											
RMT1060	Review Data & Write Special Provisions	Construction & Ops.Reg. Mat. MT	30	■ Review Data & Write Special Provisions											

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		Noise Analysis				2018												2019			
Activity ID	Activity Name	MnDOT Functional Group	Original Duration																		
Noise Analysis				217	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug			
Noise Analysis Template				217																	
NOI1000	Determine Level of Noise Analysis	Districts.Environmental	5	■ Determine Level of Noise Analysis																	
NOI1010	Procure Prequalified Noise Consultant	Districts.Environmental	60	■ Procure Prequalified Noise Consultant																	
NOI1015	Prepare and Hold Initial Public Noise Meeting (if needed)	Districts.Environmental	10	■ Prepare and Hold Initial Public Noise Meeting (if needed)																	
NOI1020	Develop Receptor Sites	Districts.Environmental	5	■ Develop Receptor Sites																	
NOI1025	Approve Receptor Sites	Districts.Environmental	5	■ Approve Receptor Sites																	
NOI1030	Monitor Noise	Districts.Environmental	10	■ Monitor Noise																	
NOI1040	Model Noise Impact (all alternatives)	Districts.Environmental	22	■ Model Noise Impact (all alternatives)																	
NOI1050	Model Noise Mitigation for Preferred Alternative	Districts.Environmental	30	■ Model Noise Mitigation for Preferred Alternative																	
NOI1055	Prepare and Hold Public Noise Meeting	Districts.Environmental	10	■ Prepare and Hold Public Noise Meeting																	
NOI1060	Draft Noise Report	Districts.Environmental	10	■ Draft Noise Report																	
NOI1065	Prepare and Hold Follow Up Public Noise Meeting (if needed)	Districts.Environmental	10	■ Prepare and Hold Follow Up Public Noise Meeting (if needed)																	
NOI1070	Review Draft Noise Report [District]	Districts.Environmental	10	■ Review Draft Noise Report [District]																	
NOI1075	Review Draft Noise Report [EMTU]	Construction & Ops.Env. Model & Test	15	■ Review Draft Noise Report [EMTU]																	
NOI1080	Incorporate Comments & Prepare Final Noise Report	Districts.Environmental	15	■ Incorporate Comments & Prepare Final Noise Report																	
NOI1090	Solicit Benefited Receptors & Document Results of Noise Solicitation	Districts.Environmental	30	■ Solicit Benefited Receptors & Document Results of Noise Solicitation																	

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				Air Quality Analysis											
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2018						2019					
				Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Air Quality Analysis			177												
Air Quality Analysis			177												
AIR1000	Determine Level of Air Quality Analysis	Operations Div..Districts.Proje	5												
AIR1010	Procure Pre-qualified Air Quality Consultant	Operations Div..Districts.Proje	60												
AIR1020	Develop/Approve Receptor Sites and Ambient Background Mon	Operations Div..Districts.Proje	45												
AIR1040	Air Quality Modeling and Draft Report	Operations Div..Districts.Proje	37												
AIR1060	Review Preliminary Results from Air Quality Analysis (Dist. & EM)	Construction & Ops.Env. Mod	15												
AIR1090	Incorporate Comments & Prepare Final Air Report	Operations Div..Districts.Proje	15												

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		Section 7 Determination			2018				
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	Jul	Aug	Sep	Oct	Nov	Dec
Section 7 Determination			45						
Section 7 Determination			45						
TES1000	Endangered Species Determination	Pre-Construction.Env. Assessment	45	 Endangered Species Determination					

Section 7 Formal Consultation

Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2018						2019					
				Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Section 7 Formal Consultation			185												
Formal Consultation			185												
TES3010	Biological Assessment Coordination	Pre-Construction.Env. Assessment	45												
TES3020	FHWA Request To Enter Formal Consideration	Pre-Construction.Env. Assessment	5												
TES3030	Biological Opinion by the U.S. Fish and Wildlife Service	Pre-Construction.Env. Assessment	135												

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		Mussel Survey			2016				
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	Jul	Aug	Sep	Oct	Nov	
Mussel Survey			45						
Mussel Survey			45						
MSY1000	Prepare Contract for Mussel Survey	Pre-Construction.Env. Assessment	20						
MSY1025	Mussel Survey	Pre-Construction.Env. Assessment	20						
MSY1030	Mussel Report Findings	Pre-Construction.Env. Assessment	5						

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				Bat Survey															
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2018						2019									
				Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
Bat Survey			261																
Bat Survey - Phase 1			41																
BAT1000	Prepare Bat Work Plan - Phase 1	Pre-Construction.Env. Assessment	10																
BAT1025	Conduct Bat Survey - Phase 1 (see notebook)	Pre-Construction.Env. Assessment	30																
BAT1030	Compile Bat Survey Results - Phase 1	Pre-Construction.Env. Assessment	1																
Bat Survey - Phase 2			220																
BAT2000	Prepare Bat Work Plan - Phase 2	Pre-Construction.Env. Assessment	10																
BAT2025	Conduct Bat Survey - Phase 2 (see notebook)	Pre-Construction.Env. Assessment	30																
BAT2030	Compile Bat Survey Results - Phase 2	Pre-Construction.Env. Assessment	1																

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				Bumble Bee Survey																	
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2018						2019											
				Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	
Bumble Bee Survey			288																		
Bumble Bee Survey - Phase 1			51																		
BUM1000	Prepare Bumble Bee Work Plan - Phase 1	Pre-Construction.Env. Assessment	10	■ Prepare Bumble Bee Work Plan - Phase 1																	
BUM1025	Conduct Bumble Bee Survey - Phase 1 (see notebook)	Pre-Construction.Env. Assessment	40	■ Conduct Bumble Bee Survey - Phase 1 (see notebook)																	
BUM1030	Compile Bumble Bee Survey Results - Phase 1	Pre-Construction.Env. Assessment	1	■ Compile Bumble Bee Survey Results - Phase 1																	
Bumble Bee Survey - Phase 2			237																		
BUM2000	Prepare Bumble Bee Work Plan - Phase 2	Pre-Construction.Env. Assessment	10	■ Prepare Bumble Bee Work Plan - Phase 2																	
BUM2025	Conduct Bumble Bee Survey - Phase 2 (see notebook)	Pre-Construction.Env. Assessment	40	■ Conduct Bumble Bee Survey - Phase 2 (see notebook)																	
BUM2030	Compile Bumble Bee Survey Results - Phase 2	Pre-Construction.Env. Assessment	1	■ Compile Bumble Bee Survey Results - Phase 2																	

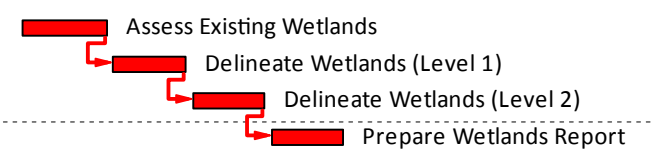
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		Vegetation Review			2018							2019
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	Jul	Aug	Sep	Oct	Nov	Dec	Jan		
Vegetation Review			70									
Vegetation Review			70									
VGT1010	Review and Respond to ENM by Vegetation	Construction & Ops.Road Veg. Mgmt	30	Review and Respond to ENM by Vegetation								
VGT1020	Review 30% Plans and Provide Recommendations	Construction & Ops.Road Veg. Mgmt	10	Review 30% Plans and Provide Recommendations								
VGT1030	Field Review and Develop Final Recommendations - Vegetation	Construction & Ops.Road Veg. Mgmt	20	Field Review and Develop Final Recommendations - Vegetation								
VGT1040	Plan Review and Provide Special Provisions - Vegetation	Construction & Ops.Road Veg. Mgmt	10	Plan Review and Provide Special Provisions - Vegetation								

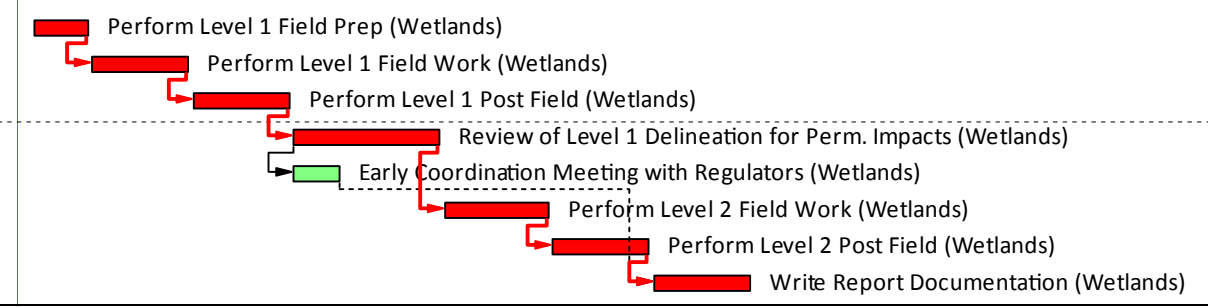
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		Wetland Delineations			2018			
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	Jul	Aug	Sep	Oct	
Wetland Delineations			20					
Wetland Delineations			20					
WTL1000	Assess Existing Wetlands	Districts.Environmental	5	Assess Existing Wetlands				
WTL1010	Delineate Wetlands (Level 1)	Districts.Environmental	5	Delineate Wetlands (Level 1)				
WTL1020	Delineate Wetlands (Level 2)	Districts.Environmental	5	Delineate Wetlands (Level 2)				
WTL1030	Prepare Wetlands Report	Districts.Environmental	5	Prepare Wetlands Report				



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		Wetland Delineations (Metro)			2018							2019
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	Jul	Aug	Sep	Oct	Nov	Dec	Jan		
Wetland Delineations (Metro)			70									
Wetland Delineations			70									
WTL2000	Perform Level 1 Field Prep (Wetlands)	Districts.Hydraulics/WRE	5	Perform Level 1 Field Prep (Wetlands)								
WTL2010	Perform Level 1 Field Work (Wetlands)	Districts.Hydraulics/WRE	10	Perform Level 1 Field Work (Wetlands)								
WTL2020	Perform Level 1 Post Field (Wetlands)	Districts.Hydraulics/WRE	10	Perform Level 1 Post Field (Wetlands)								
WTL2030	Review of Level 1 Delineation for Perm. Impacts (Wetlands)	Districts.Design	15	Review of Level 1 Delineation for Perm. Impacts (Wetlands)								
WTL2040	Early Coordination Meeting with Regulators (Wetlands)	Districts.Project Management	5	Early Coordination Meeting with Regulators (Wetlands)								
WTL2050	Perform Level 2 Field Work (Wetlands)	Districts.Hydraulics/WRE	10	Perform Level 2 Field Work (Wetlands)								
WTL2060	Perform Level 2 Post Field (Wetlands)	Districts.Hydraulics/WRE	10	Perform Level 2 Post Field (Wetlands)								
WTL2070	Write Report Documentation (Wetlands)	Districts.Hydraulics/WRE	10	Write Report Documentation (Wetlands)								

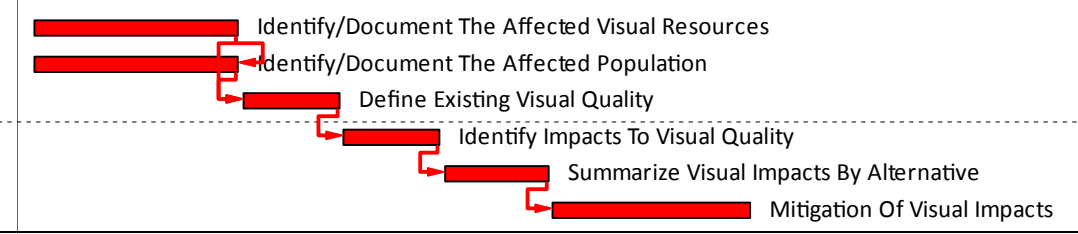


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				Section 6(f) Coordination					
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2014					
				Jul	Aug	Sep	Oct	Nov	Dec
Section 6(f) Coordination			60						
Section 6(f) Coordination			60						
SSF1000	Prepare and Review Section 6(f)	Districts.Project Management	60						

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		Visual Impact Assessment			2018							2019
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	Jul	Aug	Sep	Oct	Nov	Dec	Jan		
Visual Impact Assessment				70								
Visual Impact Assessment				70								
VIS1000	Identify/Document The Affected Visual Resources	Pre-Construction.Env. Plan & Design	20	[Red Bar]								
VIS1010	Identify/Document The Affected Population	Pre-Construction.Env. Plan & Design	20	[Red Bar]								
VIS1020	Define Existing Visual Quality	Pre-Construction.Env. Plan & Design	10	[Red Bar]								
VIS1030	Identify Impacts To Visual Quality	Pre-Construction.Env. Plan & Design	10	[Red Bar]								
VIS1040	Summarize Visual Impacts By Alternative	Pre-Construction.Env. Plan & Design	10	[Red Bar]								
VIS1050	Mitigation Of Visual Impacts	Pre-Construction.Env. Plan & Design	20	[Red Bar]								



				Section 4(f) Coordination					
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2014					
				Jul	Aug	Sep	Oct	Nov	Dec
Section 4(f) Coordination			60						
Section 4(f)			60						
SFF1000	Prepare and Review Section 4(f)	Districts.Project Management	60						


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				Blowing and Drifting Snow Control				
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2016				
				Jul	Aug	Sep	Oct	Nov
Blowing and Drifting Snow Control			25					
Blowing and Drifting Snow Control			25					
BDS1010	Run Snow Trap Analysis (See Notebook Topic)	Operations Div..Districts.Project Management	10	Run Snow Trap Analysis (See Notebook Topic)				
BDS1030	PIF Requirements & Develop PIFfor structural snow fence	Operations Div..Districts.Project Management	5	PIF Requirements & Develop PIFfor structural snow fence				
BDS1040	PIF Signaturesfor structural snow fence	Project Delivery.Special Provisions	0	PIF Signaturesfor structural snow fence				
BDS1050	Development of Structural Snow Fence	Operations Div..Districts.Project Management	10	Development of Structural Snow Fence				
BDS1060	Record Blowing & Drifting Snow correction resultes in Trap Inventory	Construction & Ops.Road Veg. Mgmt	0	Record Blowing & Drifting Snow correction resultes in Trap Inventory				

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		Categorical Exclusion - Non-Programmatic		2018						
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Categorical Exclusion - Non-Programmatic			72							
Categorical Exclusion (Non-Programmatic)			72							
CTX1000	Prepare CATEX Document	Districts.Project Management	7	Prepare CATEX Document						
CTX1010	Review Working Draft CATEX Document By OES EAU	Pre-Construction.Env. Assessment	30	Review Working Draft CATEX Document By OES EAU						
CTX1020	Review & Revise Draft CATEX Document By District	Districts.Project Management	7	Review & Revise Draft CATEX Document By District						
CTX1040	Review Draft CATEX Document By FHWA	Districts.Project Management	30	Review Draft CATEX Document By FHWA						
CTX1050	Revise Draft CATEX Document Based Off Of FHWA Comments	Districts.Project Management	7	Revise Draft CATEX Document Based Off Of FHWA Comments						
CTX1060	Obtain District, OES, FHWA Signatures For CATEX Document	Pre-Construction.Env. Assessment	10	Obtain District, OES, FHWA Signatures For CATEX Document						

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			Categorical Exclusion - Programmatic		2018				
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	Jun	Jul	Aug	Sep	Oct	
Categorical Exclusion - Programmatic			26						
Categorical Exclusion - Programmatic			26						
CTX1000	Prepare CATEX Document	Districts.Environmental	26						

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		Environmental Assessment /Environmental Assessment Worksheet																				
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2018						2019						2020						
				Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Environmental Assessment /Environmental Assessment Worksheet			399																			
Environmental Assessment (EA)/Environmental Assessment Worksheet (EAW)			399																			
EAW0900	Consultant Acquisition	Districts.Project Management	100	Consultant Acquisition																		
EAW1000	Prepare EA/EAW Statement of Purpose & Need	Districts.Project Management	10	Prepare EA/EAW Statement of Purpose & Need																		
EAW1010	Review EA/EAW Statement of Purpose & Need by OES & FHWA	Pre-Construction.Env. Assessment	30	Review EA/EAW Statement of Purpose & Need by OES & FHWA																		
EAW1020	Prepare EA/EAW Document	Districts.Project Management	40	Prepare EA/EAW Document																		
EAW1030	Review EA/EAW Document by OES	Pre-Construction.Env. Assessment	30	Review EA/EAW Document by OES																		
EAW1040	Revise EA/EAW Document Based Off Of OES Comments	Districts.Project Management	5	Revise EA/EAW Document Based Off Of OES Comments																		
EAW1050	Review EA/EAW Document by FHWA	Districts.Project Management	30	Review EA/EAW Document by FHWA																		
EAW1060	Review EA/EAW 4(f) by DOI (Note: Only if there is a Full 4(f))	Districts.Project Management	45	Review EA/EAW 4(f) by DOI (Note: Only if there is a Full 4(f))																		
EAW1070	Revise EA/EAW Document Based Off Of FHWA Comments	Districts.Project Management	10	Revise EA/EAW Document Based Off Of FHWA Comments																		
EAW1080	Obtain District, OES, FHWA Signatures for EA/EAW	Pre-Construction.Env. Assessment	10	Obtain District, OES, FHWA Signatures for EA/EAW																		
EAW1090	Public Comment Period for EA/EAW	Districts.Project Management	30	Public Comment Period for EA/EAW																		
EAW1095	Revise EA/EAW Based Off Of Public Comments	Districts.Project Management	5	Revise EA/EAW Based Off Of Public Comments																		
EAW1100	Prepare Findings of Fact & Conclusions	Districts.Project Management	10	Prepare Findings of Fact & Conclusions																		
EAW1110	Review Findings of Fact & Conclusions by OES	Pre-Construction.Env. Assessment	30	Review Findings of Fact & Conclusions by OES																		
EAW1120	Revise Findings of Fact & Conclusions based off of OES Comments	Districts.Project Management	5	Revise Findings of Fact & Conclusions based off of OES Comments																		
EAW1130	Review Findings of Fact & Conclusions by FHWA	Districts.Project Management	30	Review Findings of Fact & Conclusions by FHWA																		
EAW1145	Revise Findings of Fact & Conclusions Based Off Of FHWA Comments	Districts.Project Management	5	Revise Findings of Fact & Conclusions Based Off Of FHWA Comments																		
EAW1150	OES & District Sign FOFC and Request FONSI from FHWA	Pre-Construction.Env. Assessment	10	OES & District Sign FOFC and Request FONSI from FHWA																		
EAW1160	Issuance of FONSI by FHWA	Pre-Construction.Env. Assessment	14	Issuance of FONSI by FHWA																		
EAW1170	Public Notice of FONSI & Negative Declaration	Pre-Construction.Env. Assessment	5	Public Notice of FONSI & Negative Declaration																		
EAW1180	Review of Final 4(f) Legal Sufficiency (Note: Only if there is a Full 4(f))	Districts.Project Management	30	Review of Final 4(f) Legal Sufficiency (Note: Only if there is a Full 4(f))																		

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		Environmental Assessment Worksheet (EAW) State			2018							2019			
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	
Environmental Assessment Worksheet (EAW) State				163											
State Environmental Assessment Worksheet (EAW)				163											
SAW1000	Prepare EAW Statement of Purpose & Need	Districts.Project Management	10	Prepare EAW Statement of Purpose & Need											
SAW1010	Review EAW Statement of Purpose & Need by OES	Pre-Construction.Env. Assessment	10	Review EAW Statement of Purpose & Need by OES											
SAW1020	Prepare EAW Document	Districts.Project Management	40	Prepare EAW Document											
SAW1030	Review EAW Document by OES	Pre-Construction.Env. Assessment	30	Review EAW Document by OES											
SAW1040	Revise EAW Document Based Off Of OES Comments	Districts.Project Management	5	Revise EAW Document Based Off Of OES Comments											
SAW1050	Obtain, OES, Signatures for EAW & Publish Environmental Quality Board Monitor	Pre-Construction.Env. Assessment	10	Obtain, OES, Signatures for EAW & Publish Environmental Quality Board Monitor											
SAW1060	Public Comment Period for EAW	Districts.Project Management	30	Public Comment Period for EAW											
SAW1070	Prepare Findings of Fact & Conclusions	Districts.Project Management	10	Prepare Findings of Fact & Conclusions											
SAW1080	Review Findings of Fact & Conclusions by OES	Pre-Construction.Env. Assessment	30	Review Findings of Fact & Conclusions by OES											
SAW1090	Revise Findings of Fact & Conclusions Based Off Of OES Comments	Districts.Project Management	5	Revise Findings of Fact & Conclusions Based Off Of OES Comments											
SAW1100	OES Signs Negative Declaration	Pre-Construction.Env. Assessment	10	OES Signs Negative Declaration											
SAW1110	Publish/Distribute Negative Declaration in EQB Monitor	Pre-Construction.Env. Assessment	5	Publish/Distribute Negative Declaration											

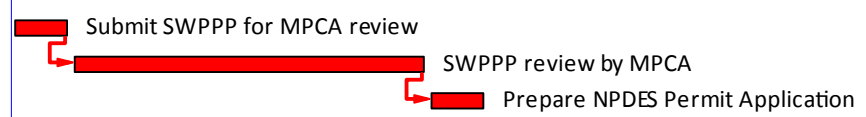
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		Environmental Impact Statement (EIS)																																									
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2018			2019			2020			2021			2022			2023			2024																					
				J	J	A	S	O	N	D	J	F	M	A	J	J	A	S	O	N	D	J	F	M	A	J	J	A	S	O	N	D	J	F	M	A	J	J	A	S	O	N	D
Environmental Impact Statement (EIS)			1423																																								
Environmental Impact Statement (EIS)			1423																																								
EIS0900	Consultant Acquisition	Districts.Project Management	100	Consultant Acquisition																																							
EIS1000	Prepare EIS Statement of Purpose & Need	Districts.Project Management	60	Prepare EIS Statement of Purpose & Need																																							
EIS1010	Review EIS Statement of Purpose & Need by OES & FHWA	Pre-Construction.Env. Assessment	30	Review EIS Statement of Purpose & Need by OES & FHWA																																							
EIS1020	Develop Scoping Alternatives and Prepare Preliminary SD/DSDD	Districts.Project Management	60	Develop Scoping Alternatives and Prepare Preliminary SD/DSDD																																							
EIS1040	Review Preliminary SD/DSDD by OES	Pre-Construction.Env. Assessment	30	Review Preliminary SD/DSDD by OES																																							
EIS1050	Revise Preliminary SD/DSDD Based on Comments by OES	Districts.Project Management	14	Revise Preliminary SD/DSDD Based on Comments by OES																																							
EIS1060	Review Preliminary SD/DSDD by FHWA	Districts.Project Management	45	Review Preliminary SD/DSDD by FHWA																																							
EIS1070	Revise Preliminary SD/DSDD Based on Comments by FHWA	Districts.Project Management	30	Revise Preliminary SD/DSDD Based on Comments by FHWA																																							
EIS1080	Review Preliminary SD/DSDD by Cooperating Agencies	Districts.Project Management	30	Review Preliminary SD/DSDD by Cooperating Agencies																																							
EIS1090	Revise Preliminary SD/DSDD Based on Comments by Cooperating Agencies	Districts.Project Management	14	Revise Preliminary SD/DSDD Based on Comments by Cooperating Agencies																																							
EIS1100	Obtain District & OES Signatures for SD/DSDD	Pre-Construction.Env. Assessment	30	Obtain District & OES Signatures for SD/DSDD																																							
EIS1110	Public Comment Period and Hearing for SD/DSDD	Districts.Project Management	30	Public Comment Period and Hearing for SD/DSDD																																							
EIS1120	Prepare Preliminary Final SDD	Districts.Project Management	30	Prepare Preliminary Final SDD																																							
EIS1130	Review Preliminary Final SDD by FHWA & OES	Pre-Construction.Env. Assessment	30	Review Preliminary Final SDD by FHWA & OES																																							
EIS1140	Revise & Issue Draft Final SDD by OES	Pre-Construction.Env. Assessment	14	Revise & Issue Draft Final SDD by OES																																							
EIS1150	Prepare & Approve of EIS Project Coordination Plan	Districts.Project Management	45	Prepare & Approve of EIS Project Coordination Plan																																							
EIS1160	Prepare DEIS	Districts.Project Management	265	Prepare DEIS																																							
EIS1170	Review DEIS by OES	Pre-Construction.Env. Assessment	30	Review DEIS by OES																																							
EIS1180	Revise DEIS Based on OES Comments	Districts.Project Management	30	Revise DEIS Based on OES Comments																																							
EIS1190	Review DEIS by FHWA	Pre-Construction.Env. Assessment	45	Review DEIS by FHWA																																							
EIS1200	Revise DEIS Based on FHWA Comments	Districts.Project Management	30	Revise DEIS Based on FHWA Comments																																							
EIS1210	Review DEIS by DOI (Note: Only if there is a Full 4(f))	Districts.Project Management	45	Review DEIS by DOI (Note: Only if there is a Full 4(f))																																							
EIS1220	Review DEIS by Cooperating Agencies	Districts.Project Management	30	Review DEIS by Cooperating Agencies																																							
EIS1230	Revise DEIS Based on Cooperating Agencies Comments	Districts.Project Management	30	Revise DEIS Based on Cooperating Agencies Comments																																							
EIS1240	Obtain District, OES, FHWA Signatures for DEIS	Pre-Construction.Env. Assessment	10	Obtain District, OES, FHWA Signatures for DEIS																																							
EIS1250	Submit Federal Register and EQB Monitor Notice for DEIS	Pre-Construction.Env. Assessment	15	Submit Federal Register and EQB Monitor Notice for DEIS																																							
EIS1260	Public Comment Period for DEIS	Districts.Project Management	45	Public Comment Period for DEIS																																							
EIS1270	Respond to DEIS Public Comments and Prepare Draft FEIS	Districts.Project Management	90	Respond to DEIS Public Comments and Prepare Draft FEIS																																							
EIS1300	Review Draft FEIS by OES	Pre-Construction.Env. Assessment	30	Review Draft FEIS by OES																																							
EIS1310	Revise Draft FEIS Based on OES Comments	Districts.Project Management	14	Revise Draft FEIS Based on OES Comments																																							
EIS1320	Review Draft FEIS by FHWA	Pre-Construction.Env. Assessment	45	Review Draft FEIS by FHWA																																							
EIS1330	Revise Draft FEIS Based on FHWA Comments	Districts.Project Management	30	Revise Draft FEIS Based on FHWA Comments																																							
EIS1340	Review Draft FEIS by Cooperating Agencies	Districts.Project Management	30	Review Draft FEIS by Cooperating Agencies																																							
EIS1350	Revise Draft FEIS Based on Cooperating Agencies Comments	Districts.Project Management	14	Revise Draft FEIS Based on Cooperating Agencies Comments																																							
EIS1360	Legal Sufficiency of Draft FEIS & 4f by FHWA	Districts.Project Management	30	Legal Sufficiency of Draft FEIS & 4f by FHWA																																							
EIS1370	Revise Draft FEIS Based on FHWA Legal Sufficiency Comments	Districts.Project Management	30	Revise Draft FEIS Based on FHWA Legal Sufficiency Comments																																							
EIS1380	Obtain District, OES, FHWA Signatures For FEIS	Pre-Construction.Env. Assessment	14	Obtain District, OES, FHWA Signatures For FEIS																																							
EIS1390	Submit Federal Register and EQB Monitor Notice for FEIS	Pre-Construction.Env. Assessment	14	Submit Federal Register and EQB Monitor Notice for FEIS																																							
EIS1400	Public Comment Period for FEIS	Districts.Project Management	30	Public Comment Period for FEIS																																							
EIS1410	Develop Record of Decision	Districts.Project Management	60	Develop Record of Decision																																							
EIS1420	Review Record of Decision by OES	Pre-Construction.Env. Assessment	10	Review Record of Decision by OES																																							
EIS1430	Revise Record of Decision Based on OES Comments	Districts.Project Management	14	Revise Record of Decision Based on OES Comments																																							
EIS1440	Review Record of Decision by FHWA	Pre-Construction.Env. Assessment	30	Review Record of Decision by FHWA																																							
EIS1450	Revise Record of Decision Based on FHWA Comments	Districts.Project Management	30	Revise Record of Decision Based on FHWA Comments																																							

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		NPDES Stormwater Discharge Permit			2015				
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	Jun	Jul	Aug	Sep	Oct	
NPDES Stormwater Discharge Permit			29						
NPDES Stormwater Discharge Permit			29						
NPP1020	Submit SWPPP for MPCA review	Districts.Hydraulics/WRE	5						
NPP1030	SWPPP review by MPCA	Districts.Hydraulics/WRE	30						
NPP1040	Prepare NPDES Permit Application	Districts.Hydraulics/WRE	5						



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		Wetland/WCA Aquatic Resources (404/401/Section 10)				2015						2016			
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
Wetland/WCA & Aquatic Resources (404/401/Section 10)			172												
Wetland/WCA & Aquatic Resources (404/401/Section 10)			172												
WTP1010	Prepare & Submit Combined Permit Application	Districts.Hydraulics/WRE	15	Prepare & Submit Combined Permit Application											
WTP1030	Respond to COE Draft Permit Questions	Districts.Hydraulics/WRE	30	Respond to COE Draft Permit Questions											
WTP1040	Permit Application Complete	Districts.Hydraulics/WRE	0	Permit Application Complete											
WTP1050	Process 401 MPCA Review	Districts.Hydraulics/WRE	180	Process 401 MPCA Review											
WTP1060	Process 404 Permit (Specify GP, LOP, SIP) COE Review	Districts.Hydraulics/WRE	180	Process 404 Permit (Specify GP, LOP, SIP) COE Review											
WTP1070	Prepare WCA Notification	Pre-Construction.Env. Assessment	40	Prepare WCA Notification											
WTP1080	MnDOT Receives & signs 401/404/Section 10	Districts.Hydraulics/WRE	5	MnDOT Receives & signs 401/404/Section 10											

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				DNR Public Waters Permit					
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2018					
				Jul	Aug	Sep	Oct	Nov	Dec
DNR Public Waters Permit			52						
DNR Public Waters Permit			52						
PWP1000	Coordinate Permitting Needs With DNR	Districts.Hydraulics/WRE	5						
PWP1010	Prepare & Submit DNR Public Waters Permit Application	Districts.Hydraulics/WRE	15						
PWP1020	Public Waters Review by DNR	Districts.Hydraulics/WRE	45						
PWP1030	DNR Public Waters Permit Received	Districts.Hydraulics/WRE	0						


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		Watershed District Permit			2015					
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Watershed District Permit			69							
Watershed District Permit			69							
WDP0900	Coordinate With Watersheds	Districts.Hydraulics/WRE	5	Coordinate With Watersheds						
WDP1000	Prepare & Submit Watershed District Permit Applications	Districts.Hydraulics/WRE	20	Prepare & Submit Watershed District Permit Applications						
WDP1010	Permit Review by Watershed Districts	Districts.Hydraulics/WRE	60	Permit Review by Watershed Districts						
WDP1020	Watershed District Permits Received	Districts.Hydraulics/WRE	0	Watershed District Permits Received						

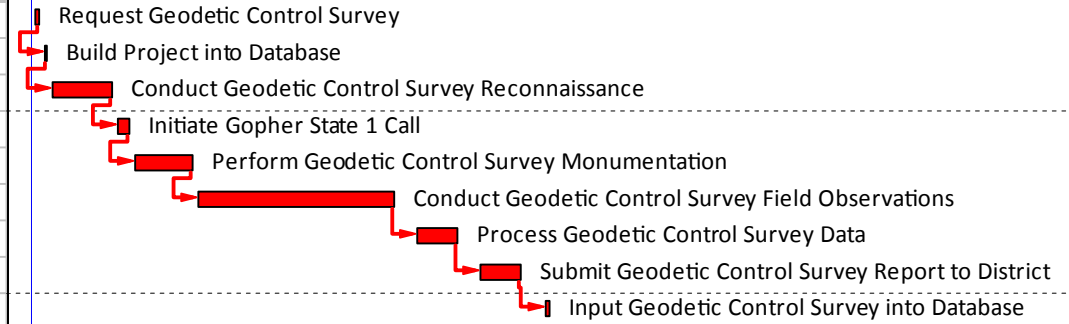
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		Section 9 (Coast Guard) Permit			2018						2019				
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Section 9 (Coast Guard) Permit			181												
Section 9 (Coast Guard) Permit			181												
CGP1000	Initiate Contact with Coast Guard	Bridge Office.Preliminary Bridge	0	◆ Initiate Contact with Coast Guard											
CGP1010	Obtain Normal Pool Elevations from Coast Guard	Bridge Office.Preliminary Bridge	10	■ Obtain Normal Pool Elevations from Coast Guard											
CGP1020	Establish Datum & Datum Conversions	Bridge Office.Preliminary Bridge	10	■ Establish Datum & Datum Conversions											
CGP1030	Discuss Potential Alignments & Obtain Feedback from Coast Guard	Bridge Office.Preliminary Bridge	40	■ Discuss Potential Alignments & Obtain Feedback from Coast Guard											
CGP1040	Develop and/or Obtain Draft Bridge Design Data (Type Size Location)	Bridge Office.Preliminary Bridge	30	■ Develop and/or Obtain Draft Bridge Design Data (Type Size Location)											
CGP1050	Provide Preferred Alternative to Coast Guard/Select Alternative	Bridge Office.Preliminary Bridge	10	■ Provide Preferred Alternative to Coast Guard/Select Alternative											
CGP1060	Refine Bridge Design Data	Bridge Office.Preliminary Bridge	20	■ Refine Bridge Design Data											
CGP1070	Confirm Bridge Design Data with Coast Guard	Bridge Office.Preliminary Bridge	10	■ Confirm Bridge Design Data with Coast Guard											
CGP1075	Generate Map & Address Listing Package	Districts.Right of Way	10	■ Generate Map & Address Listing Package											
CGP1080	Prepare Permit Application	Bridge Office.Preliminary Bridge	40	■ Prepare Permit Application											
CGP1090	Send Permit Application to Coast Guard	Bridge Office.Preliminary Bridge	0	◆ Send Permit Application to Coast Guard											
CGP1100	30 Day Public Notice from Coast Guard	Bridge Office.Preliminary Bridge	30	■ 30 Day Public Notice from Coast G											
CGP1110	Coast Guard Receives Regional Permits	Bridge Office.Preliminary Bridge	0	◆ Coast Guard Receives Regional Permits											
CGP1120	Process Coast Guard Permit	Bridge Office.Preliminary Bridge	10	■ Process Coast Guard Permit											
CGP1130	Receive Signed & Approved Coast Guard Permit	Bridge Office.Preliminary Bridge	0	◆ Receive Signed & Approved C											

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		Surveys							
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2015					
				Jun	Jul	Aug	Sep		
Surveys			5						
Surveys			5						
SUR1000	Submit Survey Request	Districts.Project Management	5	 Submit Survey Request					





		Geodetic Control Surveys			2014				
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	May	Jun	Jul	Aug	Sep	
Geodetic Control Surveys			40						
Geodetic Control Surveys			40						
SGC1090	Request Geodetic Control Survey	Districts.Surveys	1	Request Geodetic Control Survey					
SGC1100	Build Project into Database	Survey & Mapping.Geodetic Unit	1	Build Project into Database					
SGC1110	Conduct Geodetic Control Survey Reconnaissance	Survey & Mapping.Geodetic Unit	5	Conduct Geodetic Control Survey Reconnaissance					
SGC1120	Initiate Gopher State 1 Call	Survey & Mapping.Geodetic Unit	2	Initiate Gopher State 1 Call					
SGC1130	Perform Geodetic Control Survey Monumentation	Survey & Mapping.Geodetic Unit	5	Perform Geodetic Control Survey Monumentation					
SGC1140	Conduct Geodetic Control Survey Field Observations	Survey & Mapping.Geodetic Unit	15	Conduct Geodetic Control Survey Field Observations					
SGC1150	Process Geodetic Control Survey Data	Survey & Mapping.Geodetic Unit	5	Process Geodetic Control Survey Data					
SGC1160	Submit Geodetic Control Survey Report to District	Survey & Mapping.Geodetic Unit	5	Submit Geodetic Control Survey Report to District					
SGC1170	Input Geodetic Control Survey into Database	Survey & Mapping.Geodetic Unit	1	Input Geodetic Control Survey into Database					



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				Project Control Surveys				
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2013				
				May	Jun	Jul	Aug	Sep
Project Control Surveys			30					
Project Control Surveys			30					
SPC1020	Conduct Project Control Surveys (Field Work)	Districts.Surveys	20					
SPC1030	Process Project Control Surveys (Office Work)	Districts.Surveys	10					

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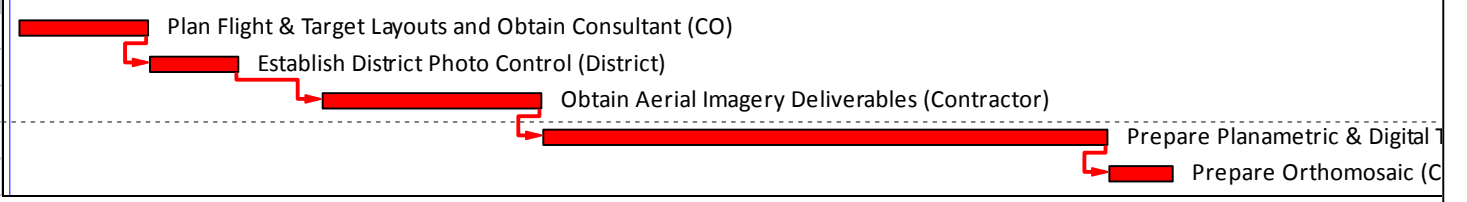
				District Land Surveys				
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2015				
				Jun	Jul	Aug	Sep	Oct
District Land Surveys			44					
District Land Surveys			44					
SDL1000	Conduct Public Land Surveys (PLS)	Districts.Surveys	22	 Conduct Public Land Surveys (PLS)				
SDL1010	Conduct Existing Right of Way Surveys	Districts.Surveys	22	 Conduct Existing Right of Way Surveys				
SDL1020	Conduct As-Built Alignment Surveys	Districts.Surveys	22	 Conduct As-Built Alignment Surveys				
SDL1030	Conduct Existing Properties Surveys (see notebook topic)	Districts.Surveys	22	 Conduct Existing Properties Surveys (see notebook topic)				

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				Design Surveys			
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2015			
				Jun	Jul	Aug	Sep
Design Surveys			22				
Design Surveys			22				
SDE1000	Annotate & Fill Voids on Photo Map	Districts.Surveys	22	Annotate & Fill Voids on Photo Map			
SDE1010	Conduct Topography/DTM Survey	Districts.Surveys	22	Conduct Topography/DTM Survey			
SDE1020	Conduct Drainage Survey	Districts.Surveys	22	Conduct Drainage Survey			
SDE1030	Conduct Utilities Survey	Districts.Surveys	22	Conduct Utilities Survey			
SDE1040	Conduct Bridge Survey (see notebook topic)	Districts.Surveys	22	Conduct Bridge Survey (see notebook topic)			




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		Photogrammetric Basemap				2016												2017			
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr		
Photogrammetric Basemap			267																		
Photogrammetric Basemap			267																		
SPB1050	Plan Flight & Target Layouts and Obtain Consultant (CO)	Survey & Mapping.Photogrammetric	30	Plan Flight & Target Layouts and Obtain Consultant (CO)																	
SPB1060	Establish District Photo Control (District)	Survey & Mapping.Photogrammetric	22	Establish District Photo Control (District)																	
SPB1070	Obtain Aerial Imagery Deliverables (Contractor)	Survey & Mapping.Photogrammetric	52	Obtain Aerial Imagery Deliverables (Contractor)																	
SPB1080	Prepare Planametric & Digital Train Model Mapping (CO)	Survey & Mapping.Photogrammetric	129	Prepare Planametric & Digital Train Model Mapping (CO)																	
SPB1090	Prepare Orthomosaic (CO)	Survey & Mapping.Photogrammetric	15	Prepare Orthomosaic (CO)																	









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				Traffic Counts			
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2014			
				Jul	Aug	Sep	Oct
Traffic Counts			5				
Traffic Counts			5				
TFC1000	Traffic Counts	Districts.Traffic	5	 Traffic Counts			






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				Traffic Forecasts			
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2015			
				Jun	Jul	Aug	Sep
Traffic Forecasts			5				
Traffic Forecasts			5				
TRF1000	Prepare Traffic Forecasts and ESALs	Districts.Materials	5	 Prepare Traffic Forecasts and ESALs			

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		Intersection Control Evaluation						
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2016				
				Jun	Jul	Aug	Sep	
Intersection Control Evaluation			5					
Intersection Control Evaluation			5					
ICE1000	Prepare Intersection Control Evaluation	Districts.Traffic	5	 Prepare Intersection Control Evaluation				

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				Transportation Management Plan			
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2015			
				Jun	Jul	Aug	Sep
Transportation Management Plan			5				
Transportation Management Plan (TMP)			5				
TMP1000	Prepare TMP	Districts.Project Management	5	 Prepare TMP			

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		Interstate Access Request			2014			2015
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	Oct	Nov	Dec	Jan	
Interstate Access Request			20					
Interstate Access Request			20					
IAR1000	Prepare Interstate Access Request	Districts.Traffic	20					

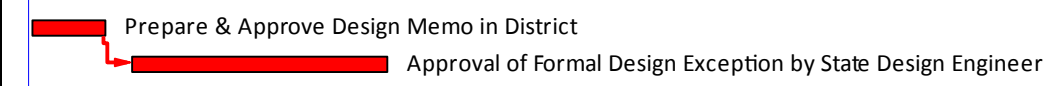
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		Staff Approved Layout			2018						2019
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	Jul	Aug	Sep	Oct	Nov	Dec	Jan	
Staff Approved Layout			80								
Staff Approved Layout			80								
LAY1040	Prepare Preliminary Geometric Layout & Profile	Districts.Design	20								
LAY1045	Conduct GDSU Review of Preliminary Layout	Design Support.Geometric Des. Sup.	15								
LAY1050	Prepare Final Geometric Layout & Profile	Districts.Design	10								
LAY1060	Conduct GDSU Review of Final Geometric Layout & Profile	Design Support.Geometric Des. Sup.	10								
LAY1075	Revise and Sign Geometric Layout by District	Districts.Design	20								
LAY1080	State Design Engineer Approve Geometric Layout	Design Support.Geometric Des. Sup.	5								

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		Design Memo/Design Exception			2017				
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	Jul	Aug	Sep	Oct	Nov	
Design Memo/Design Exception			25						
Design Memo/Design Exception			25						
DME1000	Prepare & Approve Design Memo in District	Districts.Project Management	5	Prepare & Approve Design Memo in District					
DME1010	Approval of Formal Design Exception by State Design Engineer	OPM&TS.Design Support.Geometric Des. Sup.	20	Approval of Formal Design Exception by State Design Engineer					



				RW Construction Limits			
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2018			
				Jul	Aug	Sep	Oct
RW Construction Limits			20				
RW Construction Limits			20				
LIM1000	Prepare Preliminary Cross Sections	Districts.Design	5				
LIM1010	Review & Revise Preliminary Cross Sections	Districts.Design	10				
LIM1020	Prepare & Submit Construction Limits	Districts.Design	5				


█ Remaining Level of Effort
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				Value Engineering											
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2015						2016					
				Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Value Engineering			188												
Value Engineering			188												
VEA1000	Notification of VE Required and Procure Consultant	Design Support.Value Eng. Unit	120	Notification of VE Required and Procure Consultant											
VEA1010	Conduct VE Study	Design Support.Value Eng. Unit	5	Conduct VE Study											
VEA1015	Draft VE Report and Set Up Debriefing Meeting	Design Support.Value Eng. Unit	10	Draft VE Report and Set Up Debriefing Meeting											
VEA1020	Evaluate VE Study Recommendations	Districts.Project Management	10	Evaluate VE Study Recommendations											
VEA1030	Generate Final Report and Publish Final Report	Design Support.Value Eng. Unit	30	Generate Final Report and Publish Final Report											
VEA1040	Prepare for Debriefing Meeting	Design Support.Value Eng. Unit	22	Prepare for Debriefing Meeting											
VEA1050	Conduct Debriefing Meeting	Design Support.Value Eng. Unit	1	Conduct Debriefing Meeting											

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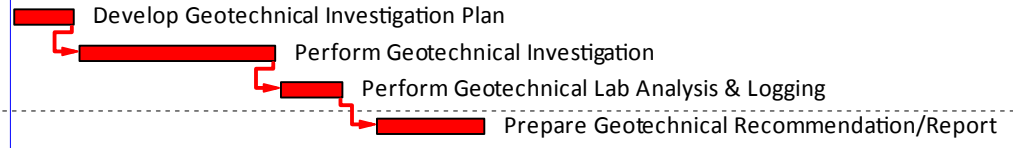
		Municipal Consent									
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2014			2015				
				Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
Municipal Consent			113								
Municipal Consent			113								
MNC1000	Prepare & Send Municipal Consent Submittal Package to City	Districts.Project Management	5	■ Prepare & Send Municipal Consent Submittal Package to City							
MNC1010	Conduct Public Hearing for Municipal Consent by City	Districts.Project Management	43	■ Conduct Public Hearing for Municipal Consent by City							
MNC1020	Pass Resolution Approving/Disapproving Municipal Consent by City	Districts.Project Management	65	■ Pass Resolution Approving/Disapproving M							

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		Municipal Consent (Appeal Process)				2015						2016				
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	
Municipal Consent (Appeal Process)				182												
Municipal Consent (Appeal Process)				182												
MNC2000	Appeal of Municipal Consent	Districts.Project Management	182	 Appeal of Municipal Consent												

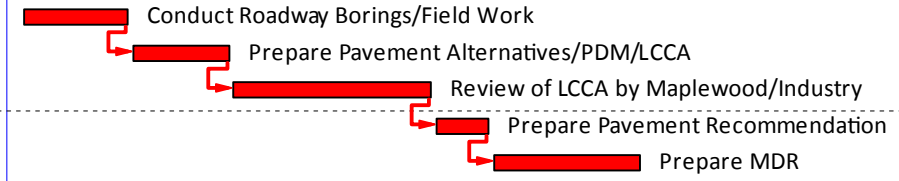
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		Foundation Recommendations			2014				
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	Jun	Jul	Aug	Sep	Oct	
Foundation Recommendations			35						
Geotech Template			35						
FDR1010	Develop Geotechnical Investigation Plan	OM&RR.Geotech Engineering	5	Develop Geotechnical Investigation Plan					
FDR1020	Perform Geotechnical Investigation	OM&RR.Geotech Engineering	15	Perform Geotechnical Investigation					
FDR1030	Perform Geotechnical Lab Analysis & Logging	OM&RR.Geotech Engineering	5	Perform Geotechnical Lab Analysis & Logging					
FDR1040	Prepare Geotechnical Recommendation/Report	OM&RR.Geotech Engineering	10	Prepare Geotechnical Recommendation/Report					



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		Material Design Recommendations (MDR)			2018					
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	Jul	Aug	Sep	Oct	Nov	Dec	
Material Design Recommendations (MDR)			60							
Material Design Recommendations (MDR)			60							
MDR1000	Conduct Roadway Borings/Field Work	Districts.Materials	10	Conduct Roadway Borings/Field Work						
MDR1010	Prepare Pavement Alternatives/PDM/LCCA	Districts.Materials	10	Prepare Pavement Alternatives/PDM/LCCA						
MDR1030	Review of LCCA by Maplewood/Industry	Districts.Materials	20	Review of LCCA by Maplewood/Industry						
MDR1050	Prepare Pavement Recommendation	Districts.Materials	5	Prepare Pavement Recommendation						
MDR1060	Prepare MDR	Districts.Materials	15	Prepare MDR						



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		Stormwater Treatment Design			2015			
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	Jun	Jul	Aug	Sep	
Stormwater Treatment Design			21					
Stormwater Treatment Design			21					
PND1000	Preliminary Stormwater Treatment Design	Districts.Hydraulics/WRE	20	Preliminary Stormwater Treatment Design				
PND1010	Request Soil Borings/Piezometers	Districts.Hydraulics/WRE	1	Request Soil Borings/Piezometers				

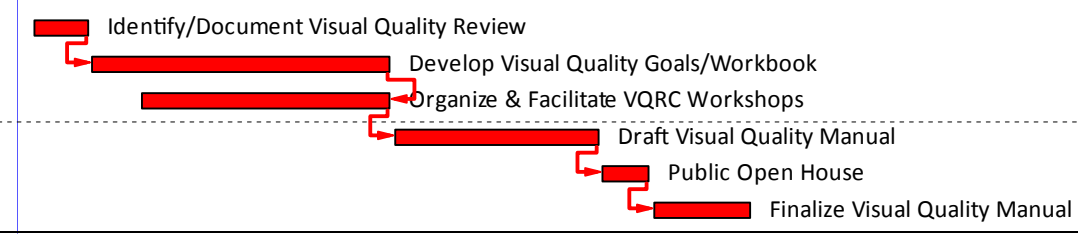
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		Hydraulics Design			2015							2016				
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar			
Hydraulics Design				145												
Hydraulics Design				145												
HYD1000	Preliminary Hydraulics Design/Recommendation	Districts.Hydraulics/WRE	40	██████████				Preliminary Hydraulics Design/Recommendation								
HYD1010	Final Hydraulics Design/Recommendation	Districts.Hydraulics/WRE	90	██████████				██████████				Final Hydraulics Design/Recommendation				
HYD1020	Develop Staging For Temporary Drainage	Districts.Hydraulics/WRE	20	██████████										Develop Staging For Temporary Drainage		
HYD1030	Prepare SWPPP and Review Erosion Control Plans	Districts.Hydraulics/WRE	15	██████████										Prepare SWPPP and Review Erosion		

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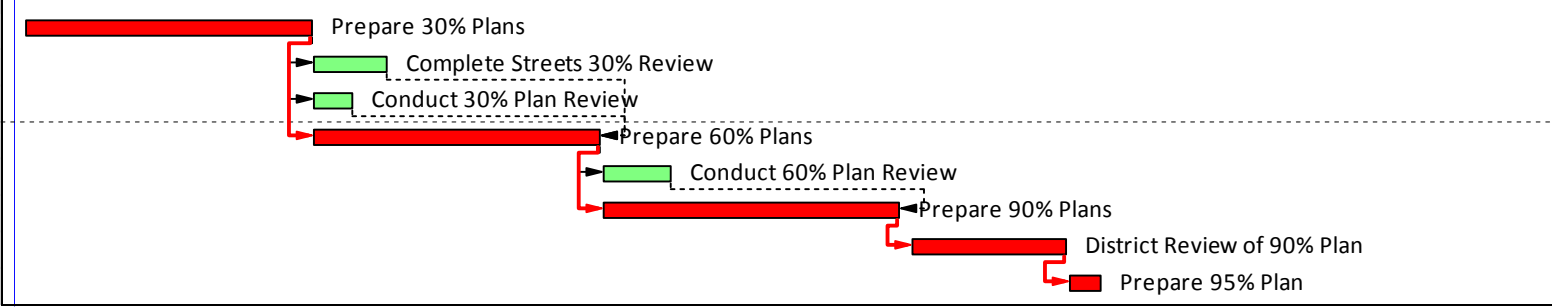
				ADA Requirements					
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2015					
				Jun	Jul	Aug	Sep	Oct	Nov
ADA Requirements			50						
ADA Field Walk Recommendations			30						
ADA1010	Conduct ADA Field Walk and Prepare Draft Recommendations	Operations Div..ADA Unit	15	Conduct ADA Field Walk and Prepare Draft Recommendations					
ADA1020	District Review of ADA Field Walk Recommendations	Operations Div..Districts.Proj	10	District Review of ADA Field Walk Recommendations					
ADA1030	Finalize ADA Field Walk Recommendations	Operations Div..ADA Unit	10	Finalize ADA Field Walk Recommendations					
ADA Plan Review #1			10						
ADA2000	ADA Plan Review #1	Operations Div..ADA Unit	10	ADA Plan Review #1					
ADA Plan Review #2			10						
ADA3000	ADA Plan Review #2	Operations Div..ADA Unit	10	ADA Plan Review #2					

		Visual Quality Management Plan			2018							2019
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	Jul	Aug	Sep	Oct	Nov	Dec	Jan		
Visual Quality Management Plan			70									
Visual Quality Management Plan			70									
VQM1000	Identify/Document Visual Quality Review	Pre-Construction.Env. Plan & Design	5	Identify/Document Visual Quality Review								
VQM1010	Develop Visual Quality Goals/Workbook	Pre-Construction.Env. Plan & Design	30	Develop Visual Quality Goals/Workbook								
VQM1020	Organize & Facilitate VQRC Workshops	Pre-Construction.Env. Plan & Design	25	Organize & Facilitate VQRC Workshops								
VQM1030	Draft Visual Quality Manual	Pre-Construction.Env. Plan & Design	20	Draft Visual Quality Manual								
VQM1040	Public Open House	Pre-Construction.Env. Plan & Design	5	Public Open House								
VQM1050	Finalize Visual Quality Manual	Pre-Construction.Env. Plan & Design	10	Finalize Visual Quality Manual								










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				Road Plans											
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2018						2019					
				Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr		
Road Plans			145												
Road Plans			145												
PLN3000	Prepare 30% Plans	Districts.Design	40	Prepare 30% Plans											
PLN3250	Complete Streets 30% Review	Districts.Design	10	Complete Streets 30% Review											
PLN3500	Conduct 30% Plan Review	Districts.Design	5	Conduct 30% Plan Review											
PLN6000	Prepare 60% Plans	Districts.Design	40	Prepare 60% Plans											
PLN6500	Conduct 60% Plan Review	Districts.Design	10	Conduct 60% Plan Review											
PLN9000	Prepare 90% Plans	Districts.Design	40	Prepare 90% Plans											
PLN9010	District Review of 90% Plan	Districts.Design	20	District Review of 90% Plan											
PLN9500	Prepare 95% Plan	Districts.Design	5	Prepare 95% Plan											









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		Hydraulics/WRE Plans			2015			
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	Jun	Jul	Aug	Sep	
Hydraulics/WRE Plans			20					
Hydraulics/ WRE Plans			20					
WRE1000	Prepare Culvert Plan	Districts.Hydraulics/WRE	20	 Prepare Culvert Plan				
WRE1010	Prepare Storm Sewer Plan	Districts.Hydraulics/WRE	20	 Prepare Storm Sewer Plan				




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				Traffic Control/Staging Plan			
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2015			
				Jun	Jul	Aug	Sep
Traffic Control/Staging Plan			20				
Traffic Control/Staging Plan			20				
TCP1000	Prepare Traffic Control Plan	Districts.Traffic	20	 Prepare Traffic Control Plan			
TCP1010	Prepare Staging Plan	Districts.Traffic	20	 Prepare Staging Plan			

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			Pavement Marking Plan				
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2015			
				Jun	Jul	Aug	Sep
Pavement Marking Plan			10				
Pavement Marking Plan			10				
TPM1000	Prepare Pavement Marking Plan	Districts.Traffic	10	 Prepare Pavement Marking Plan			

 Remaining Level of Effort
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				Signing Plan							
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2015							2016
				Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
Signing Plan			95								
Signing Plan			95								
SGN1000	Prepare & Review 30% Signing Plan	Districts.Signing	30	Prepare & Review 30% Signing Plan							
SGN1010	Prepare & Review 60% Signing Plan	Districts.Signing	30	Prepare & Review 60% Signing Plan							
SGN1020	Prepare & Review 90% Signing Plan	Districts.Signing	20	Prepare & Review 90% Signing Plan							
SGN1030	Prepare & Review 100% Signing Plan & Special Provisions	Districts.Signing	15	Prepare & Review 100% Signing Plan & Special Provision							


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				Signal Plan					
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2015					
				Jun	Jul	Aug	Sep	Oct	Nov
Signal Plan			45						
Signal Plan			45						
TSG1000	Prepare Signal Plan	Districts.Traffic	40						
TSG1010	Prepare Signal Special Provisions & Estimate	Districts.Traffic	5						

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		Lighting Plan			2015				
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	Jun	Jul	Aug	Sep	Oct	Nov
Lighting Plan			45						
Lighting Plan			45						
TLT1000	Prepare Lighting Plan	Districts.Traffic	40						
TLT1010	Prepare Lighting Special Provisions & Estimate	Districts.Traffic	5						

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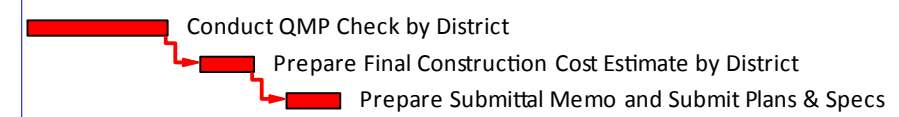
			TMS Plan					
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2014			2015	
				Oct	Nov	Dec	Jan	Feb
TMS Plan			40					
TMS Plan			40					
TMS1030	Prepare & Review 100% TMS Plan and Special Provisions	Districts.Traffic Management	40	 Prepare & Review 100% TMS Plan and Special Provisions				

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			Time and Traffic		2015			
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	Jun	Jul	Aug	Sep	
Time and Traffic			5					
Time and Traffic			5					
TTT1000	Prepare Time and Traffic	Districts.Construction	5					




 Prepare Time and Traffic

				Project Turn In			
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2015			
				Jun	Jul	Aug	Sep
Project Turn In			20				
Project Turn In			20				
TUR1020	Conduct QMP Check by District	Districts.Design	10	Conduct QMP Check by District			
TUR1030	Prepare Final Construction Cost Estimate by District	Districts.Project Management	5	Prepare Final Construction Cost Estimate by District			
TUR1040	Prepare Submittal Memo and Submit Plans & Specs	Districts.Project Management	5	Prepare Submittal Memo and Submit Plans & Specs			

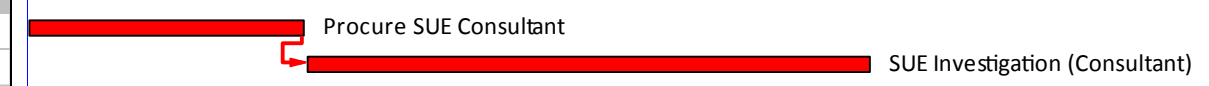


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			Special Provisions					
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2018				
				Jul	Aug	Sep	Oct	
Special Provisions			5					
Special Provisions			5					
PRO1000	Prepare Special Provisions	Districts.Project Management	5	 Prepare Special Provisions				

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		Subsurface Utility Engineering				2014						2015		
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb			
Subsurface Utility Engineering			90											
Subsurface Utility Engineering (SUE)			90											
SUE1000	Procure SUE Consultant	Districts.District Utilities	30	Procure SUE Consultant										
SUE1010	SUE Investigation (Consultant)	Districts.District Utilities	60	SUE Investigation (Consultant)										



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				Utility Coordination						
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2015						2016
				Jun	Jul	Aug	Sep	Oct	Nov	Dec
Utility Coordination			105							
Utility Coordination			105							
UTI1000	Send Plan Information & Conduct Utility Information Meetings	Districts.District Utilities	15	Send Plan Information & Conduct Utility Information Meetings						
UTI1010	Conduct Utility Design Meeting	Districts.District Utilities	15	Conduct Utility Design Meeting						
UTI1020	Obtain & Review Utility Relocation Plans, Schedules & Estimate & Permit Application by Utility Company	Districts.District Utilities	30	Obtain & Review Utility Relocation Plans, Schedules & Estimate & Permit Application by Utility Company						
UTI1030	Prepare & Send Utility Verification Letters	Districts.District Utilities	2	Prepare & Send Utility Verification Letters						
UTI1040	Verification Letter Responses	Districts.District Utilities	22	Verification Letter Responses						
UTI1050	Review Utility Permit Application by District	Districts.District Utilities	10	Review Utility Permit Application by District						
UTI1060	Prepare & Approve Utility Permit by CO Utilities Unit	R.E. & Policy Dev..Utility Agr & Permit	10	Prepare & Approve Utility Permit by CO Utilities Unit						
UTI1070	Prepare & Send Utility Notice & Orders	R.E. & Policy Dev..Utility Agr & Permit	1	Prepare & Send Utility Notice & Orders						

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		New Bridge				2019															
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	018	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	
New Bridge				269																	
Br ##### Bridge Scoping & Structure Determination				15																	
STR2000-#	Br ##### Receive Form A	Bridge Office.Preliminary Bridge	1																		
STR2010-#	Br ##### Receive ABC Stage 2	Bridge Office.Preliminary Bridge	1																		
STR2020-#	Br ##### Hydraulic Assessment	Bridge Office.Preliminary Bridge	2																		
STR2030-#	Br ##### Prepare Form B	Bridge Office.Preliminary Bridge	10																		
STR2040-#	Br ##### Bridge Estimating Assessment	Bridge Office.Preliminary Bridge	2																		
STR2050-#	Br ##### Distribute and Document Form B	Bridge Office.Preliminary Bridge	2																		
Br ##### Bridge Hydraulics Letter				101																	
BHL1000-#	Br ##### Receive Bridge Survey Data	Bridge Office.Bridge Hydraulics	0																		
BHL1010-#	Br ##### Bridge Research & Field Review	Bridge Office.Bridge Hydraulics	10																		
BHL1020-#	Br ##### Bridge Hydraulic Modeling	Bridge Office.Bridge Hydraulics	10																		
BHL1030-#	Br ##### Bridge Risk Assessment	Bridge Office.Bridge Hydraulics	1																		
BHL1040-#	Br ##### Write Bridge Hydraulic Letter	Bridge Office.Bridge Hydraulics	2																		
BHL1050-#	Br ##### Review & Finalize Bridge Hydraulic Letter	Bridge Office.Bridge Hydraulics	2																		
BHL1060-#	Br ##### Deck Drain Study	Bridge Office.Bridge Hydraulics	10																		
BHL1070-#	Br ##### Scour Confirmation Letter	Bridge Office.Bridge Hydraulics	1																		
Br ##### Foundations Analysis and Design Report				60																	
BFR1010-#	Br ##### Receive Substructure Locations for Geotechnical Investigation		5																		
BFR1020-#	Br ##### Develop Geotechnical Investigation Plan	OM&RR.Geotech Engineering	5																		
BFR1030-#	Br ##### Perform Geotechnical Investigation	OM&RR.Geotech Engineering	25																		
BFR1040-#	Br ##### Perform Geotechnical Lab Analysis & Logging	OM&RR.Geotech Engineering	10																		
BFR1050-#	Br ##### Prepare Geotechnical Recommendation/Report	OM&RR.Geotech Engineering	15																		
Br ##### Preliminary Bridge Plans				95																	
PBP2000-#	Br ##### Receive Form B	Bridge Office.Preliminary Bridge	0																		
PBP2010-#	Br ##### Conduct Site Visit	Bridge Office.Preliminary Bridge	5																		
PBP2020-#	Br ##### Receive Roadway Design and Survey Data	Bridge Office.Preliminary Bridge	5																		
PBP2030-#	Br ##### Geotechnical Coordination	Bridge Office.Preliminary Bridge	5																		
PBP2040-#	Br ##### Hydraulic Coordination	Bridge Office.Preliminary Bridge	5																		
PBP2050-#	Br ##### Finalize Bridge Aesthetic Recommendation	Bridge Office.Preliminary Bridge	30																		
PBP2060-#	Br ##### Railroad Coordination (If Necessary)	Bridge Office.Preliminary Bridge	10																		
PBP2070-#	Br ##### Structure Recommendation	Bridge Office.Preliminary Bridge	15																		
PBP2080-#	Br ##### Structure Type Study Completed	Bridge Office.Preliminary Bridge	0																		
PBP2090-#	Br ##### Preliminary Bridge Plan Preparation	Bridge Office.Preliminary Bridge	20																		
PBP2100-#	Br ##### Receive & Plot Bridge Borings	Bridge Office.Preliminary Bridge	2																		
PBP2105-#	Br ##### Receive Final Hydraulic Letter	Bridge Office.Preliminary Bridge	1																		
PBP2110-#	Br ##### Distribute Bridge Plan, Borings, Foundation Report to Regional Construction Engineer	Bridge Office.Preliminary Bridge	5																		
PBP2120-#	Br ##### Distribute Bridge Plan to Project Manager for Final Review	Bridge Office.Preliminary Bridge	5																		
PBP2125-#	Br ##### District Review of Final Preliminary Bridge Plan		5																		
PBP2130-#	Br ##### Receive Bridge Foundation Recommendation	Bridge Office.Preliminary Bridge	5																		
PBP2140-#	Br ##### Check and Revise Preliminary Bridge Plans	Bridge Office.Preliminary Bridge	5																		
PBP2150-#	Br ##### Obtain State Bridge Engineers's Signature Preliminary	Bridge Office.Preliminary Bridge	2																		
PBP2160-#	Br ##### Distribute Signed Preliminary Bridge Plan and Update Documentation	Bridge Office.Preliminary Bridge	1																		
PBP2170-#	Br ##### Preliminary Bridge Estimate & District Letter	Bridge Office.Preliminary Bridge	10																		
Br ##### Final Bridge Plans				169																	

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		New Bridge			2018													2019			
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct		
FBP1000-#	Br ##### Receive Signed Preliminary Bridge Plan	Bridge Office.Final Bridge	0																		
FBP1005-#	Br ##### Bridge General Coordination	Bridge Office.Final Bridge	154																		
FBP1031-#	Br ##### Prepare 30% Final Bridge Plans	Bridge Office.Final Bridge	30																		
FBP1061-#	Br ##### Prepare 60% Final Bridge Plans	Bridge Office.Final Bridge	55																		
FBP1071-#	Br ##### Draft Bridge Plan to District for Time and Traffic	Bridge Office.Final Bridge	2																		
FBP1091-#	Br ##### Prepare 95% Final Bridge Plans	Bridge Office.Final Bridge	55																		
FBP1100-#	Br ##### Bridge Specs	Bridge Office.Final Bridge	20																		
FBP1110-#	Br ##### Bridge Plan Review by Construction & Estimating	Bridge Office.Final Bridge	10																		
FBP1120-#	Br ##### Obtain State Bridge Engineer's Signature - Final	Bridge Office.Final Bridge	2																		
FBP1130-#	Br ##### Bridge Final Estimate	Bridge Office.Final Bridge	5																		
Br ##### Foundation Recommendation			5																		
FRF1000-#	Br ##### Prepare Bridge Foundation Recommendation	Bridge Office.Preliminary Bridge	5																		

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		Consultant Bridge Design			2018					
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	Jul	Aug	Sep	Oct	Nov	Dec	
Consultant Bridge Design			60							
Cut & Paste Activities into Bridge Scoping & Structure Determination			40							
STR1045-#	Br ##### Acquire Bridge Preliminary & Final Design (See Notebook)	Bridge Office.Preliminary Bridge	40	Br ##### Acquire Bridge Preliminary & Final Design (See Notebook)						
Cut & Paste Activities into Preliminary Bridge Plans			20							
PBP1035-#	Br ##### Review 30% Preliminary Bridge Plan	Bridge Office.Preliminary Bridge	20	Br ##### Review 30% Preliminary Bridge Plan						
PBP1055-#	Br ##### Review Final Preliminary Bridge Plans	Bridge Office.Preliminary Bridge	20	Br ##### Review Final Preliminary Bridge Plans						
Cut & Paste Activities into Final Bridge Plans			60							
FBP1036-#	Br ##### Perform 30% Final Bridge Plan Review	Bridge Office.Final Bridge	20	Br ##### Perform 30% Final Bridge Plan Review						
FBP1066-#	Br ##### Perform 60% Final Bridge Plan Review	Bridge Office.Final Bridge	20	Br ##### Perform 60% Final Bridge Plan Review						
FBP1096-#	Br ##### Perform 95% Final Bridge Plan Review	Bridge Office.Final Bridge	20	Br ##### Perform 95% Final Bridge Plan Review						

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			Culvert				2018				2019			
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	
Culvert			141											
Br ##### Culvert Scoping & Structure Determination			20											
STR1030-#	Br ##### Conduct Bridge Hydraulics Scoping	Bridge Office.Preliminary Bridge	5	Br ##### Conduct Bridge Hydraulics Scoping										
STR1080-#	Br ##### Receive District Concurrence from District and Hydraulics	Bridge Office.Preliminary Bridge	15	Br ##### Receive District Concurrence from District and Hydraulics										
Br ##### Culvert Hydraulics Letter			44											
BHL1000-#	Br ##### Receive Bridge Survey Data	Bridge Office.Bridge Hydraulics	0	Br ##### Receive Bridge Survey Data										
BHL1010-#	Br ##### Bridge Research & Field Review	Bridge Office.Bridge Hydraulics	10	Br ##### Bridge Research & Field Review										
BHL1020-#	Br ##### Bridge Hydraulic Modeling	Bridge Office.Bridge Hydraulics	10	Br ##### Bridge Hydraulic Modeling										
BHL1030-#	Br ##### Bridge Risk Assessment	Bridge Office.Bridge Hydraulics	1	Br ##### Bridge Risk Assessment										
BHL1040-#	Br ##### Write Bridge Hydraulic Letter	Bridge Office.Bridge Hydraulics	2	Br ##### Write Bridge Hydraulic Letter										
BHL1050-#	Br ##### Review & Finalize Bridge Hydraulic Letter	Bridge Office.Bridge Hydraulics	2	Br ##### Review & Finalize Bridge Hydraulic Letter										
Br ##### Foundations Recommendations - Culvert			30											
CFR1010-#	Br ##### Develop Geotechnical Investigation Plan	OM&RR.Geotech Engineering	5	Br ##### Develop Geotechnical Investigation Plan										
CFR1020-#	Br ##### Perform Geotechnical Investigation	OM&RR.Geotech Engineering	10	Br ##### Perform Geotechnical Investigation										
CFR1030-#	Br ##### Perform Geotechnical Lab Analysis & Logging	OM&RR.Geotech Engineering	5	Br ##### Perform Geotechnical Lab Analysis & Logging										
CFR1040-#	Br ##### Prepare Geotechnical Recommendation/Report	OM&RR.Geotech Engineering	10	Br ##### Prepare Geotechnical Recommendation/Report										
Br ##### Final Culvert Plans			97											
FCP1000-#	Br ##### Receive Culvert Request Form from District	Bridge Office.Final Bridge	0	Br ##### Receive Culvert Request Form from District										
FCP1010-#	Br ##### Culvert Design/Drafting	Bridge Office.Final Bridge	60	Br ##### Culvert Design/Drafting										
FCP1020-#	Br ##### District Review of Culvert Design	Bridge Office.Final Bridge	5	Br ##### District Review of Culvert Design										
FCP1030-#	Br ##### Obtain State Bridge Engineer's Signature - Culvert	Bridge Office.Final Bridge	2	Br ##### Obtain State Bridge Engineer's Signature										

█ Remaining Level of Effort
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		Bridge Preservation				2018				2019			
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr
Bridge Preservation			135										
Br ##### Rehab Recommendations			70										
RHB0900-#	Br ##### Finalize Bridge Aesthetic Recommendation	Bridge Office.Preliminary Bridge	30	Br ##### Finalize Bridge Aesthetic Recommendation									
RHB1000-#	Br ##### Prepare Draft Bridge Repair Recommendation	Bridge Office.Bridge Construction	45	Br ##### Prepare Draft Bridge Repair Recommendation									
RHB1010-#	Br ##### Send Draft Bridge Repair Recommendation to District for Concurrence	Bridge Office.Bridge Construction	0	Br ##### Send Draft Bridge Repair Recommendation to District for Concurrence									
RHB1020-#	Br ##### District Provide Concurrence on Draft Bridge Repair Recommendation	Operations Div..Districts.Construction	15	Br ##### District Provide Concurrence on Draft Bridge Repair Recommendation									
RHB1030-#	Br ##### Receive Draft Bridge Repair Recommendation Concurrence from District	Bridge Office.Bridge Construction	0	Br ##### Receive Draft Bridge Repair Recommendation Concurrence from District									
RHB1040-#	Br ##### Prepare Final Bridge Repair Recommendation	Bridge Office.Bridge Construction	5	Br ##### Prepare Final Bridge Repair Recommendation									
RHB1050-#	Br ##### Send Final Bridge Repair Recommendation to District for Signature	Bridge Office.Bridge Construction	0	Br ##### Send Final Bridge Repair Recommendation to District for Signature									
RHB1060-#	Br ##### District Signs Final Bridge Repair Recommendations	Operations Div..Districts.Construction	3	Br ##### District Signs Final Bridge Repair Recommendations									
RHB1080-#	Br ##### Prepare Bridge Rehab Preliminary Estimate	Bridge Office.Bridge Construction	2	Br ##### Prepare Bridge Rehab Preliminary Estimate									
Br ##### Final Bridge Repair Plans			67										
FRP0900-#	Br ##### Receive Signed Final Bridge Repair Recommendations	Bridge Office.Final Bridge	0	Br ##### Receive Signed Final Bridge Repair Recommendations									
FRP1000-#	Br ##### Geometry	Bridge Office.Final Bridge	3	Br ##### Geometry									
FRP1010-#	Br ##### Bridge General Coordination	Bridge Office.Final Bridge	60	Br ##### Bridge General Coordination									
FRP1020-#	Br ##### GP&E, Workpoints	Bridge Office.Final Bridge	3	Br ##### GP&E, Workpoints									
FRP1040-#	Br ##### Bridge Repair Design and Coordination	Bridge Office.Final Bridge	15	Br ##### Bridge Repair Design and Coordination									
FRP1050-#	Br ##### Bridge Repair Drafting	Bridge Office.Final Bridge	30	Br ##### Bridge Repair Drafting									
FRP1060-#	Br ##### Bridge Specs	Bridge Office.Final Bridge	12	Br ##### Bridge Specs									
FRP1070-#	Br ##### Bridge Plan Review by Regional Construction Bridge Engineer	Bridge Office.Final Bridge	10	Br ##### Bridge Plan Review by Regional Construction Bridge Engineer									
FRP1080-#	Br ##### Obtain State Bridge Engineer's Signature	Bridge Office.Final Bridge	2	Br ##### Obtain State Bridge Engineer's Signature									
FRP1090-#	Br ##### Bridge Final Estimate	Bridge Office.Final Bridge	5	Br ##### Bridge Final Estimate									

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				Bridge Redeck														
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2018						2019								
				Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept
Bridge Redeck			235															
Br ##### Rehab Recommendations			160															
RHB0900-#	Br ##### Finalize Bridge Aesthetic Recommendation	Bridge Office.Preliminary Bridge	30	Br ##### Finalize Bridge Aesthetic Recommendation														
RHB0980-#	Br ##### Perform Bridge Load Rating Analysis	Bridge Office.Bridge Construction	20	Br ##### Perform Bridge Load Rating Analysis														
RHB0990-#	Br ##### Perform Bridge Structural Analysis	Bridge Office.Bridge Construction	20	Br ##### Perform Bridge Structural Analysis														
RHB1000-#	Br ##### Prepare Bridge Draft Repair Recommendation	Bridge Office.Bridge Construction	90	Br ##### Prepare Bridge Draft Repair Recommendation														
RHB1010-#	Br ##### Send Draft Bridge Repair Recommendation to District for Concurrence	Bridge Office.Bridge Construction	0	Br ##### Send Draft Bridge Repair Recommendation to District for Concurrence														
RHB1020-#	Br ##### District Provide Concurrence on Draft Bridge Repair Recommendation	Operations Div..Districts.Construction	20	Br ##### District Provide Concurrence on Draft Bridge Repair Recommendation														
RHB1030-#	Br ##### Receive Draft Bridge Repair Recommendation Concurrence from District	Bridge Office.Bridge Construction	0	Br ##### Receive Draft Bridge Repair Recommendation Concurrence from District														
RHB1040-#	Br ##### Prepare Final Bridge Repair Recommendation	Bridge Office.Bridge Construction	5	Br ##### Prepare Final Bridge Repair Recommendation														
RHB1050-#	Br ##### Send Final Bridge Repair Recommendation to District for Signature	Bridge Office.Bridge Construction	0	Br ##### Send Final Bridge Repair Recommendation to District for Signature														
RHB1060-#	Br ##### District Signs Final Bridge Repair Recommendations	Operations Div..Districts.Construction	3	Br ##### District Signs Final Bridge Repair Recommendations														
RHB1080-#	Br ##### Prepare Bridge Rehab Preliminary Estimate	Bridge Office.Bridge Construction	2	Br ##### Prepare Bridge Rehab Preliminary Estimate														
Br ##### Final Bridge Repair Plans			77															
FRP0900-#	Br ##### Receive Signed Final Bridge Repair Recommendations	Bridge Office.Final Bridge	0	Br ##### Receive Signed Final Bridge Repair Recommendations														
FRP1000-#	Br ##### Geometry	Bridge Office.Final Bridge	3	Br ##### Geometry														
FRP1010-#	Br ##### Bridge General Coordination	Bridge Office.Final Bridge	70	Br ##### Bridge General Coordination														
FRP1020-#	Br ##### GP&E, Workpoints	Bridge Office.Final Bridge	3	Br ##### GP&E, Workpoints														
FRP1040-#	Br ##### Bridge Repair Design and Coordination	Bridge Office.Final Bridge	15	Br ##### Bridge Repair Design and Coordination														
FRP1050-#	Br ##### Bridge Repair Drafting	Bridge Office.Final Bridge	40	Br ##### Bridge Repair Drafting														
FRP1060-#	Br ##### Bridge Specs	Bridge Office.Final Bridge	12	Br ##### Bridge Specs														
FRP1070-#	Br ##### Bridge Plan Review by Regional Construction Bridge Engineer	Bridge Office.Final Bridge	10	Br ##### Bridge Plan Review by Regional Construction Bridge Engineer														
FRP1080-#	Br ##### Obtain State Bridge Engineer's Signature	Bridge Office.Final Bridge	2	Br ##### Obtain State Bridge Engineer's Signature														
FRP1090-#	Br ##### Bridge Final Estimate	Bridge Office.Final Bridge	5	Br ##### Bridge Final Estimate														

█ Remaining Level of Effort
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			Bridge Substructure Widening																					
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2018												2019					2020			
				Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
Bridge Substructure Widening			367																					
Br ##### Rehab Recommendations			208																					
RHB0980-#	Br ##### Perform Bridge Load Rating Analysis	Bridge Office.Bridge Construction	30	Br ##### Perform Bridge Load Rating Analysis																				
RHB0990-#	Br ##### Perform Bridge Structural Analysis	Bridge Office.Bridge Construction	30	Br ##### Perform Bridge Structural Analysis																				
RHB1000-#	Br ##### Prepare Draft Bridge Repair Recommendation	Bridge Office.Bridge Construction	120	Br ##### Prepare Draft Bridge Repair Recommendation																				
RHB1010-#	Br ##### Send Draft Bridge Repair Recommendation to District for Concurrence	Bridge Office.Bridge Construction	0	Br ##### Send Draft Bridge Repair Recommendation to District for Concurrence																				
RHB1020-#	Br ##### District Provide Concurrence on Draft Bridge Repair Recommendation	Operations Div..Districts.Construction	20	Br ##### District Provide Concurrence on Draft Bridge Repair Recommendation																				
RHB1030-#	Br ##### Receive Draft Bridge Repair Recommendation Concurrence from District	Bridge Office.Bridge Construction	0	Br ##### Receive Draft Bridge Repair Recommendation Concurrence from District																				
RHB1040-#	Br ##### Prepare Final Bridge Repair Recommendation	Bridge Office.Bridge Construction	5	Br ##### Prepare Final Bridge Repair Recommendation																				
RHB1050-#	Br ##### Send Final Bridge Repair Recommendation to District for Signature	Bridge Office.Bridge Construction	0	Br ##### Send Final Bridge Repair Recommendation to District for Signature																				
RHB1060-#	Br ##### District Signs Final Bridge Repair Recommendations	Operations Div..Districts.Construction	3	Br ##### District Signs Final Bridge Repair Recommendations																				
Br ##### Foundations Recommendations - Bridge			50																					
BFR1020-#	Br ##### Develop Geotechnical Investigation Plan	OM&RR.Geotech Engineering	5	Br ##### Develop Geotechnical Investigation Plan																				
BFR1030-#	Br ##### Perform Geotechnical Investigation	OM&RR.Geotech Engineering	25	Br ##### Perform Geotechnical Investigation																				
BFR1040-#	Br ##### Perform Geotechnical Lab Analysis & Logging	OM&RR.Geotech Engineering	10	Br ##### Perform Geotechnical Lab Analysis & Logging																				
BFR1050-#	Br ##### Prepare Geotechnical Recommendation/Report	OM&RR.Geotech Engineering	10	Br ##### Prepare Geotechnical Recommendation/Report																				
Br ##### Preliminary Bridge Design			104																					
PBP1000-#	Br ##### Receive Bridge Survey Files	Bridge Office.Preliminary Bridge	0	Br ##### Receive Bridge Survey Files																				
PBP1010-#	Br ##### Receive Roadway Design Files	Bridge Office.Preliminary Bridge	0	Br ##### Receive Roadway Design Files																				
PBP1020-#	Br ##### Finalize Bridge Aesthetic Recommendation	Bridge Office.Preliminary Bridge	30	Br ##### Finalize Bridge Aesthetic Recommendation																				
PBP1030-#	Br ##### Draft Preliminary Bridge Plan	Bridge Office.Preliminary Bridge	20	Br ##### Draft Preliminary Bridge Plan																				
PBP1040-#	Br ##### Receive & Plot Borings	Bridge Office.Preliminary Bridge	2	Br ##### Receive & Plot Borings																				
PBP1050-#	Br ##### Check Preliminary Bridge Plan	Bridge Office.Preliminary Bridge	5	Br ##### Check Preliminary Bridge Plan																				
PBP1060-#	Br ##### Distribute Bridge Plan, Borings, Foundation Report to Regional Const. Engineer	Bridge Office.Preliminary Bridge	5	Br ##### Distribute Bridge Plan, Borings, Foundation Report to Regional Const. Engineer																				
PBP1070-#	Br ##### Prepare Bridge Foundation Recommendation	Bridge Office.Preliminary Bridge	5	Br ##### Prepare Bridge Foundation Recommendation																				
PBP1080-#	Br ##### Finalize Preliminary Bridge Plans with Foundation Recommendations	Bridge Office.Preliminary Bridge	5	Br ##### Finalize Preliminary Bridge Plans with Foundation Recommendations																				
PBP1090-#	Br ##### Receive Bridge Foundation Recommendation	Bridge Office.Preliminary Bridge	1	Br ##### Receive Bridge Foundation Recommendation																				
PBP1100-#	Br ##### Obtain State Bridge Engineer's Signature - Preliminary	Bridge Office.Preliminary Bridge	2	Br ##### Obtain State Bridge Engineer's Signature - Preliminary																				
PBP1110-#	Br ##### Distribute Signed Preliminary Bridge Plan	Bridge Office.Preliminary Bridge	1	Br ##### Distribute Signed Preliminary Bridge Plan																				
PBP1120-#	Br ##### Preliminary Bridge Estimate & District Letter	Bridge Office.Preliminary Bridge	10	Br ##### Preliminary Bridge Estimate & District Letter																				
PBP1130-#	Br ##### FHWA Approval (if necessary)	Bridge Office.Preliminary Bridge	10	Br ##### FHWA Approval (if necessary)																				
Br ##### Final Bridge Plans			273																					
FBP0900-#	Br ##### Receive Signed Final Bridge Repair Recommendations	Bridge Office.Final Bridge	0	Br ##### Receive Signed Final Bridge Repair Recommendations																				
FBP1000-#	Br ##### Receive Signed Preliminary Bridge Plan	Bridge Office.Final Bridge	0	Br ##### Receive Signed Preliminary Bridge Plan																				
FBP1005-#	Br ##### Bridge General Coordination	Bridge Office.Final Bridge	154	Br ##### Bridge General Coordination																				
FBP1031-#	Br ##### Prepare 30% Final Bridge Plans	Bridge Office.Final Bridge	30	Br ##### Prepare 30% Final Bridge Plans																				
FBP1061-#	Br ##### Prepare 60% Final Bridge Plans	Bridge Office.Final Bridge	55	Br ##### Prepare 60% Final Bridge Plans																				
FBP1071-#	Br ##### Draft Bridge Plan to District for Time and Traffic	Bridge Office.Final Bridge	2	Br ##### Draft Bridge Plan to District for Time and Traffic																				
FBP1091-#	Br ##### Prepare 95% Final Bridge Plans	Bridge Office.Final Bridge	55	Br ##### Prepare 95% Final Bridge Plans																				

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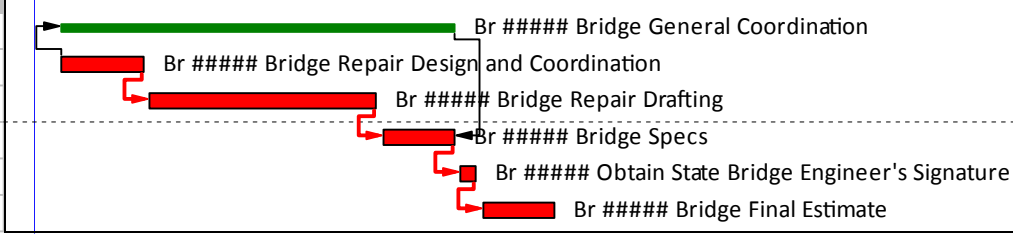
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		Historic Bridge Study																																					
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2018												2019												2020											
				Jun	Jul	Aug	S	Oct	Nov	Dec	Jan	F	Mar	Apr	M	Jun	Jul	Aug	S	Oct	N	Dec	Jan	F	Mar	Apr	M	Jun	Jul	Aug	S	Oct							
Historic Bridge Study			537																																				
Historic Bridge Study			537																																				
Br ##### Rehab Report			187																																				
HBS1000-#	Br ##### Collaboration Coordination	Engineering Serv..Bridge Office.Final Bridge	187	Br ##### Collaboration Coordination																																			
HBS1010-#	Br ##### Received ENM	Engineering Serv..Bridge Office.Final Bridge	0	Br ##### Received ENM																																			
HBS1020-#	Br ##### Assemble/Review Data & Conduct Site Visit - By Engineering Consultant	Engineering Serv..Bridge Office.Final Bridge	10	Br ##### Assemble/Review Data & Conduct Site Visit - By Engineering Consultant																																			
HBS1030-#	Br ##### Assemble/Review Data & Conduct Site Visit - By Historic Consultant	Pre-Construction.Cultural Resources	10	Br ##### Assemble/Review Data & Conduct Site Visit - By Historic Consultant																																			
HBS1040-#	Br ##### Determine Capacity of Existing Bridge (Structural Analysis & Load Rating) - By Engineering Consultant	Engineering Serv..Bridge Office.Final Bridge	10	Br ##### Determine Capacity of Existing Bridge (Structural Analysis & Load Rating) - By Engineering Consultant																																			
HBS1050-#	Br ##### Develop Evaluation Criteria & Rehab Alternatives - By Engineering Consultant	Engineering Serv..Bridge Office.Final Bridge	80	Br ##### Develop Evaluation Criteria & Rehab Alternatives - By Engineering Consultant																																			
HBS1060-#	Br ##### Develop Evaluation Criteria & Rehab Alternatives - By Historic Consultant	Pre-Construction.Cultural Resources	80	Br ##### Develop Evaluation Criteria & Rehab Alternatives - By Historic Consultant																																			
HBS1070-#	Br ##### Estimate Rehab Costs - By Engineering Consultant	Engineering Serv..Bridge Office.Final Bridge	5	Br ##### Estimate Rehab Costs - By Engineering Consultant																																			
HBS1080-#	Br ##### Write Draft Rehab Report - By Engineering Consultant	Engineering Serv..Bridge Office.Final Bridge	20	Br ##### Write Draft Rehab Report - By Engineering Consultant																																			
HBS1090-#	Br ##### Write Draft Rehab Report - By Historic Consultant	Pre-Construction.Cultural Resources	20	Br ##### Write Draft Rehab Report - By Historic Consultant																																			
HBS1100-#	Br ##### Review Draft Rehab Study Report by MnDOT	Engineering Serv..Bridge Office	12	Br ##### Review Draft Rehab Study Report by MnDOT																																			
HBS1110-#	Br ##### Review Draft Rehab Study Report by FHWA	Engineering Serv..Bridge Office	25	Br ##### Review Draft Rehab Study Report by FHWA																																			
HBS1120-#	Br ##### Consultant Incorporates Comments into Final Draft Rehab Report - By Engineering Consultant	Engineering Serv..Bridge Office	10	Br ##### Consultant Incorporates Comments into Final Draft Rehab Report - By Engineering Consultant																																			
HBS1130-#	Br ##### Prepare Final Rehab Study Report - By Engineering Consultant	Engineering Serv..Bridge Office	10	Br ##### Prepare Final Rehab Study Report - By Engineering Consultant																																			
HBS1140-#	Br ##### Review Final Rehab Report by MnDOT	Engineering Serv..Bridge Office	10	Br ##### Review Final Rehab Report by MnDOT																																			
Br ##### Determined Bridge Schedule			350																																				
HBS1150-#	Br ##### Bridge Schedule (See Notebook)		350	Br ##### Br																																			

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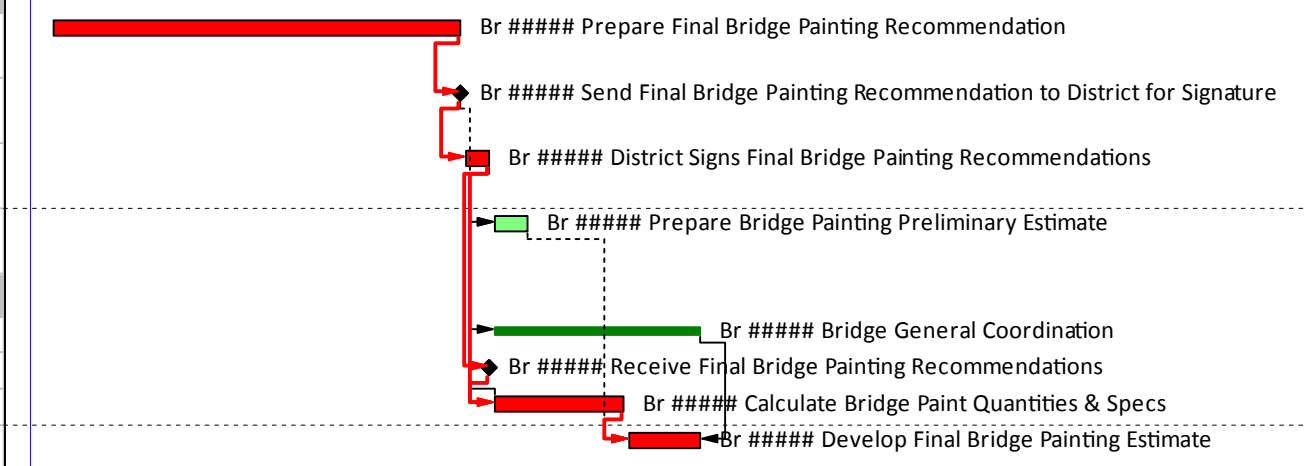
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				Bridge End Post Design				
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2018				
				Jul	Aug	Sep	Oct	Nov
Bridge End Post Design			32					
Br ##### Final Bridge Repair Plans			32					
FRP1010-#	Br ##### Bridge General Coordination	Bridge Office.Final Bridge	25	Br ##### Bridge General Coordination				
FRP1040-#	Br ##### Bridge Repair Design and Coordination	Bridge Office.Final Bridge	5	Br ##### Bridge Repair Design and Coordination				
FRP1050-#	Br ##### Bridge Repair Drafting	Bridge Office.Final Bridge	15	Br ##### Bridge Repair Drafting				
FRP1060-#	Br ##### Bridge Specs	Bridge Office.Final Bridge	5	Br ##### Bridge Specs				
FRP1080-#	Br ##### Obtain State Bridge Engineer's Signature	Bridge Office.Final Bridge	2	Br ##### Obtain State Bridge Engineer's Signature				
FRP1090-#	Br ##### Bridge Final Estimate	Bridge Office.Final Bridge	5	Br ##### Bridge Final Estimate				



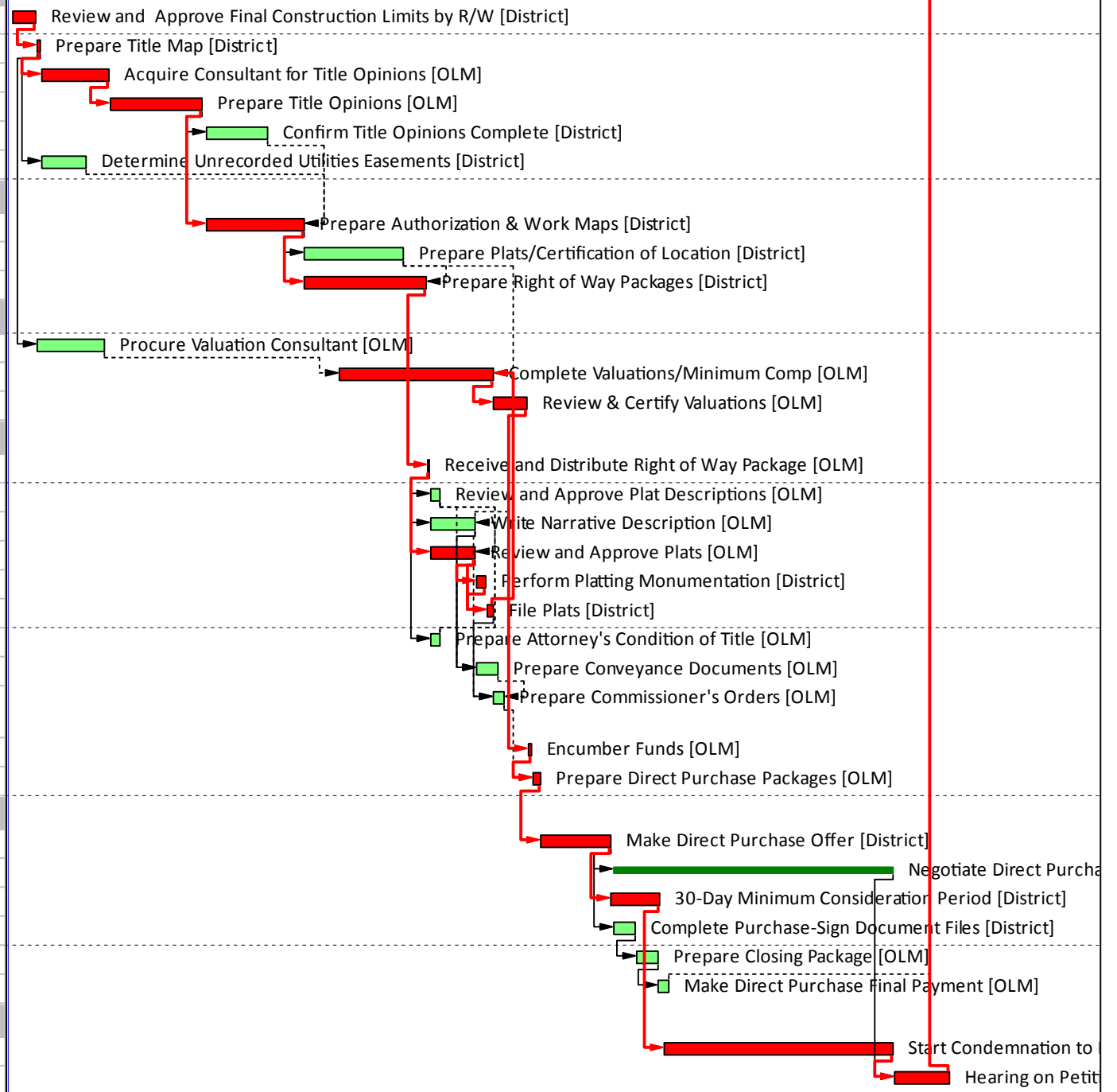
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				Bridge Painting Plans					
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2018					
				Jul	Aug	Sep	Oct	Nov	Dec
Bridge Painting Plans			48						
Br ##### Bridge Painting Recommendations			35						
BPR1040-#	Br ##### Prepare Final Bridge Painting Recommendation	Bridge Office.Bridge Construction	30	Br ##### Prepare Final Bridge Painting Recommendation					
BPR1050-#	Br ##### Send Final Bridge Painting Recommendation to District for Signature	Bridge Office.Bridge Construction	0	Br ##### Send Final Bridge Painting Recommendation to District for Signature					
BPR1060-#	Br ##### District Signs Final Bridge Painting Recommendations	Operations Div..Districts.Construction	3	Br ##### District Signs Final Bridge Painting Recommendations					
BPR1080-#	Br ##### Prepare Bridge Painting Preliminary Estimate	Bridge Office.Bridge Construction	2	Br ##### Prepare Bridge Painting Preliminary Estimate					
Br ##### Bridge Painting Plans			15						
BPP1000-#	Br ##### Bridge General Coordination	Bridge Office.Final Bridge	15	Br ##### Bridge General Coordination					
BPP1005-#	Br ##### Receive Final Bridge Painting Recommendations		0	Br ##### Receive Final Bridge Painting Recommendations					
BPP1010-#	Br ##### Calculate Bridge Paint Quantities & Specs	Bridge Office.Final Bridge	10	Br ##### Calculate Bridge Paint Quantities & Specs					
BPP1030-#	Br ##### Develop Final Bridge Painting Estimate	Bridge Office.Bridge Construction	5	Br ##### Develop Final Bridge Painting Estimate					



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		Fee Acquisition				2019												2020										
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	D18	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr		
Fee Acquisition				393																								
Milestones (ROW)				0																								
MS_250	RW Title and Possession Obtained [District]	Districts.Project Management	0																									
Title Opinions				108																								
RTT0080	Review and Approve Final Construction Limits by R/W [District]	Districts.Right of Way	10																									
RTT0085	Prepare Title Map [District]	Districts.Right of Way	3																									
RTT0090	Acquire Consultant for Title Opinions [OLM]	R.E. & Policy Dev..Legal	30																									
RTT0095	Prepare Title Opinions [OLM]	R.E. & Policy Dev..Legal	40																									
RTT1010	Confirm Title Opinions Complete [District]	Districts.Right of Way	25																									
RTT1020	Determine Unrecorded Utilities Easements [District]	Districts.Right of Way	20																									
Right of Way Package				90																								
RWP1000	Prepare Authorization & Work Maps [District]	Districts.Right of Way	40																									
RWP1020	Prepare Plats/Certification of Location [District]	Districts.Surveys	40																									
RWP1080	Prepare Right of Way Packages [District]	Districts.Right of Way	50																									
Valuations				207																								
RVL1000	Procure Valuation Consultant [OLM]	R.E. & Policy Dev..Appraisal Mgmt	30																									
RVL1010	Complete Valuations/Minimum Comp [OLM]	R.E. & Policy Dev..Appraisal Mgmt	65																									
RVL1020	Review & Certify Valuations [OLM]	R.E. & Policy Dev..Appraisal Mgmt	15																									
Right of Way Pre-acquisitions				50																								
RPR1000	Receive and Distribute Right of Way Package [OLM]	R.E. & Policy Dev..ProjCoor&Finance	2																									
RPR1020	Review and Approve Plat Descriptions [OLM]	Survey & Mapping.Platting Unit	5																									
RPR1030	Write Narrative Description [OLM]	Survey & Mapping.Legal Desc & Comm.	20																									
RPR1040	Review and Approve Plats [OLM]	Survey & Mapping.Platting Unit	20																									
RPR1050	Perform Platting Monumentation [District]	Districts.Surveys	5																									
RPR1060	File Plats [District]	Districts.Surveys	2																									
RPR1070	Prepare Attorney's Condition of Title [OLM]	R.E. & Policy Dev..Legal	5																									
RPR1080	Prepare Conveyance Documents [OLM]	Survey & Mapping.Legal Desc & Comm.	10																									
RPR1090	Prepare Commissioner's Orders [OLM]	R.E. & Policy Dev..Purch & Relocation.Purch	5																									
RPR1100	Encumber Funds [OLM]	R.E. & Policy Dev..Purch & Relocation	3																									
RPR1110	Prepare Direct Purchase Packages [OLM]	R.E. & Policy Dev..Purch & Relocation	3																									
Direct Purchase				148																								
RDP1000	Make Direct Purchase Offer [District]	Districts.Right of Way	30																									
RDP1005	Negotiate Direct Purchase Offer [District]	Districts.Right of Way	118																									
RDP1010	30-Day Minimum Consideration Period [District]	Districts.Right of Way	30																									
RDP1030	Complete Purchase-Sign Document Files [District]	Districts.Right of Way	10																									
RDP1050	Prepare Closing Package [OLM]	R.E. & Policy Dev..Purch & Relocation	10																									
RDP1060	Make Direct Purchase Final Payment [OLM]	R.E. & Policy Dev..Purch & Relocation	5																									
Condemnation				119																								
RED1010	Start Condemnation to Hearing on Petition [OLM]	R.E. & Policy Dev..Legal	97																									
RED1020	Hearing on Petition to Title & Possession [OLM]	R.E. & Policy Dev..Legal	35																									



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				Relocation					
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2014					
				May	Jun	Jul	Aug	Sep	Oct
Relocation			65						
Relocation			65						
RRL1000	Advisory Services up to Title & Possession	Districts.Right of Way	65	Advisory Services up to Title & Possession					
RRL1010	Detailed Relocation Study	Districts.Right of Way	22	Detailed Relocation Study					
RRL1020	Replacement Housing Study	Districts.Right of Way	10	Replacement Housing Study					
RRL1030	Prepare & Issue Eligibility Notices	Districts.Right of Way	5	Prepare & Issue Eligibility Notices					
RRL1040	Issue Vacate Notice and 90/120 Day Vacate Notice	Districts.Right of Way	93	Issue Vacate Notice and 90/120 Day Vacate Notice					

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		PIF for R/W Acquisition			2016				
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	Jun	Jul	Aug	Sep	Oct	
PIF for R/W Acquisition			35						
PIF for R/W Acquisition			35						
PIF1000	Obtain Title & Possession Date for PIF [OLM]	R.E. & Policy Dev..Legal	35						
PIF1010	Prepare PIF for R/W Acquisition [District]	Districts.Right of Way	5						
PIF1020	Approve PIF for R/W Acquisition [OLM]	R.E. & Policy Dev..ProjCoor&Finance	10						

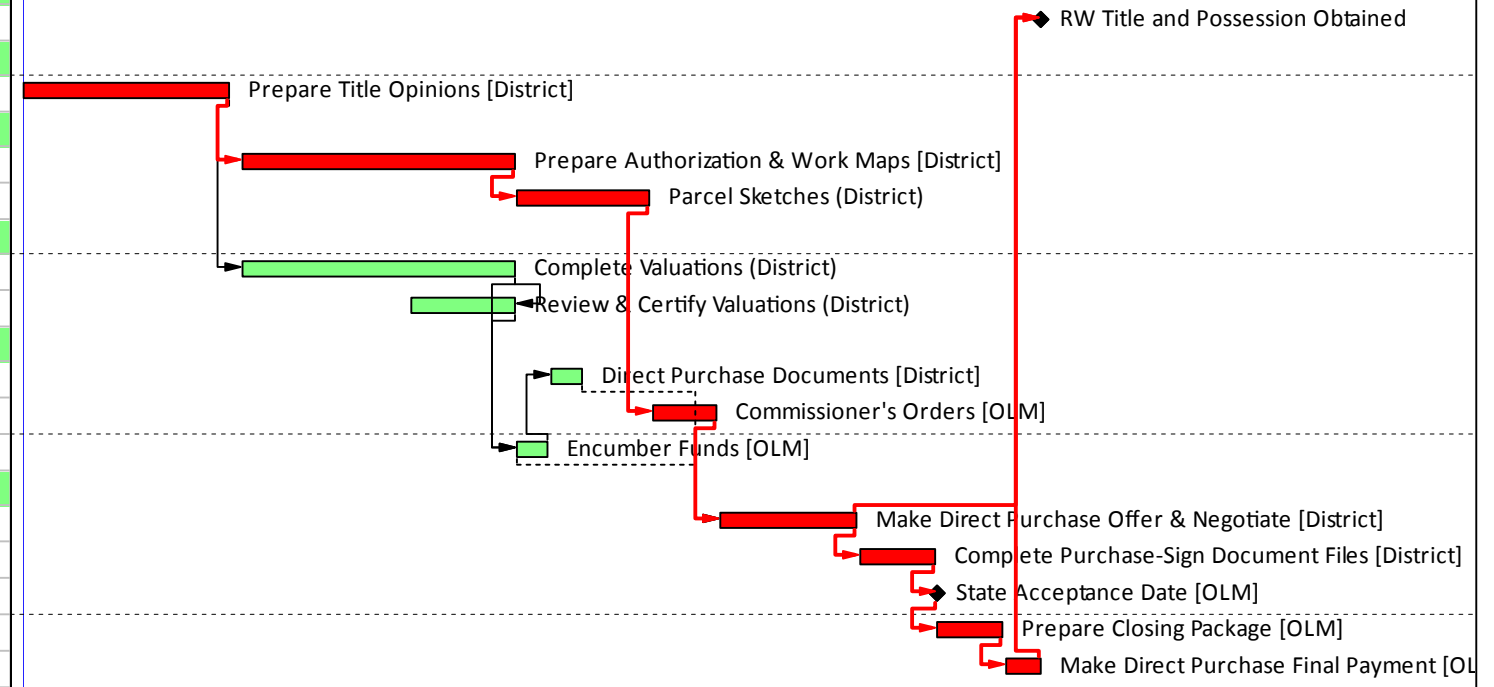


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				Temporary Right to Construct											
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2014											
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
Temporary Right to Construct			168												
Milestones (ROW)			0												
MS_250	RW Title and Possession Obtained	Districts.Project Management	0	◆ RW Title and Possession Obtained											
Title Opinions			53												
RTT1000	Consultant Acquisition for Title Opinion (District)	Districts.Right of Way	30	■ Consultant Acquisition for Title Opinion (District)											
RTT1010	Prepare Title Map (District)	Districts.Right of Way	3	■ Prepare Title Map (District)											
RTT1020	Confirm Title Opinions on Completion (District)	Districts.Right of Way	20	■ Confirm Title Opinions on Completion (District)											
Right of Way Package			60												
RWP1000	Prepare Authorization Map (District)	Districts.Right of Way	40	■ Prepare Authorization Map (District)											
RWP1050	Parcel Sketches (District)	Districts.Right of Way	20	■ Parcel Sketches (District)											
RWP1060	Field Titles (District)	Districts.Right of Way	20	■ Field Titles (District)											
Valuations			70												
RVL1000	Procure Valuation Consultant (District)	Districts.Right of Way	30	■ Procure Valuation Consultant (District)											
RVL1010	Complete Valuations (District)	Districts.Right of Way	40	■ Complete Valuations (District)											
RVL1020	Review & Certify Valuations (District)	Districts.Right of Way	15	■ Review & Certify Valuations (District)											
Right of Way Pre-Acquisition			23												
RPR1010	Commissioner's Orders [OLM]	R.E. & Policy Dev..Purch & Relocation	10	■ Commissioner's Orders [OLM]											
RPR1030	Encumber Funds [OLM]	R.E. & Policy Dev..Purch & Relocation	5	■ Encumber Funds [OLM]											
RPR1050	Direct Purchase Documents [District]	Districts.Right of Way	5	■ Direct Purchase Documents [District]											
Direct Purchase			45												
RDP1000	Make Direct Purchase Offer & Negotiate [District]	Districts.Right of Way	20	■ Make Direct Purchase Offer & Negotiate [District]											
RDP1010	Complete Purchase-Sign Document Files [District]	Districts.Right of Way	10	■ Complete Purchase-Sign Document Files [District]											
RDP1020	State Acceptance Date [OLM]	R.E. & Policy Dev..Purch & Relocation	0	◆ State Acceptance Date [OLM]											
RDP1030	Prepare Closing Package [OLM]	R.E. & Policy Dev..Purch & Relocation	10	■ Prepare Closing Package [OLM]											
RDP1040	Make Direct Purchase Final Payment [OLM]	R.E. & Policy Dev..Purch & Relocation	5	■ Make Direct Purchase Final Payment											

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				Temporary Right to Construct (Metro)								
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2018					2019			
				Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
Temporary Right to Construct (Metro)			145									
Temporary Right to Construct (Metro)			145									
Milestones (ROW)			0									
MS_250	RW Title and Possession Obtained	Districts.Project Management	0									
Title Opinions			30									
RTT2000	Prepare Title Opinions [District]	Districts.Right of Way	30									
Right of Way Package			60									
RWP1000	Prepare Authorization & Work Maps [District]	Districts.Right of Way	40									
RWP1050	Parcel Sketches (District)	Districts.Right of Way	20									
Valuations			40									
RVL1010	Complete Valuations (District)	Districts.Right of Way	40									
RVL1020	Review & Certify Valuations (District)	Districts.Right of Way	15									
Right of Way Pre-Acquisition			30									
RPR1050	Direct Purchase Documents [District]	Districts.Right of Way	5									
RPR1090	Commissioner's Orders [OLM]	R.E. & Policy Dev..Purch & Relocation	10									
RPR1100	Encumber Funds [OLM]	R.E. & Policy Dev..Purch & Relocation	5									
Direct Purchase			45									
RDP1000	Make Direct Purchase Offer & Negotiate [District]	Districts.Right of Way	20									
RDP1010	Complete Purchase-Sign Document Files [District]	Districts.Right of Way	10									
RDP1020	State Acceptance Date [OLM]	R.E. & Policy Dev..Purch & Relocation	0									
RDP1030	Prepare Closing Package [OLM]	R.E. & Policy Dev..Purch & Relocation	10									
RDP1040	Make Direct Purchase Final Payment [OLM]	R.E. & Policy Dev..Purch & Relocation	5									



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				Commissioner's Orders					
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2015					
				Jun	Jul	Aug	Sep	Oct	Nov
Commissioner's Orders			65						
Right of Way Package			43						
RWP1000	Prepare Authorization Map (District)	Districts.Right of Way	40	Prepare Authorization Map (District)					
RWP1010	Prepare Right of Way Packages (District)	Districts.Right of Way	3	Prepare Right of Way Packages (District)					
Right of Way Pre-Acquisition			22						
RPR1000	Right of Way Receive and Distribute (OLM)	R.E. & Policy Dev..ProjCoor&Finance	2	Right of Way Receive and Distribute (OLM)					
RPR1080	Commissioner's Orders (OLM)	R.E. & Policy Dev..Purch & Relocation.Purch	20	Commissioner's Orders (OLM)					

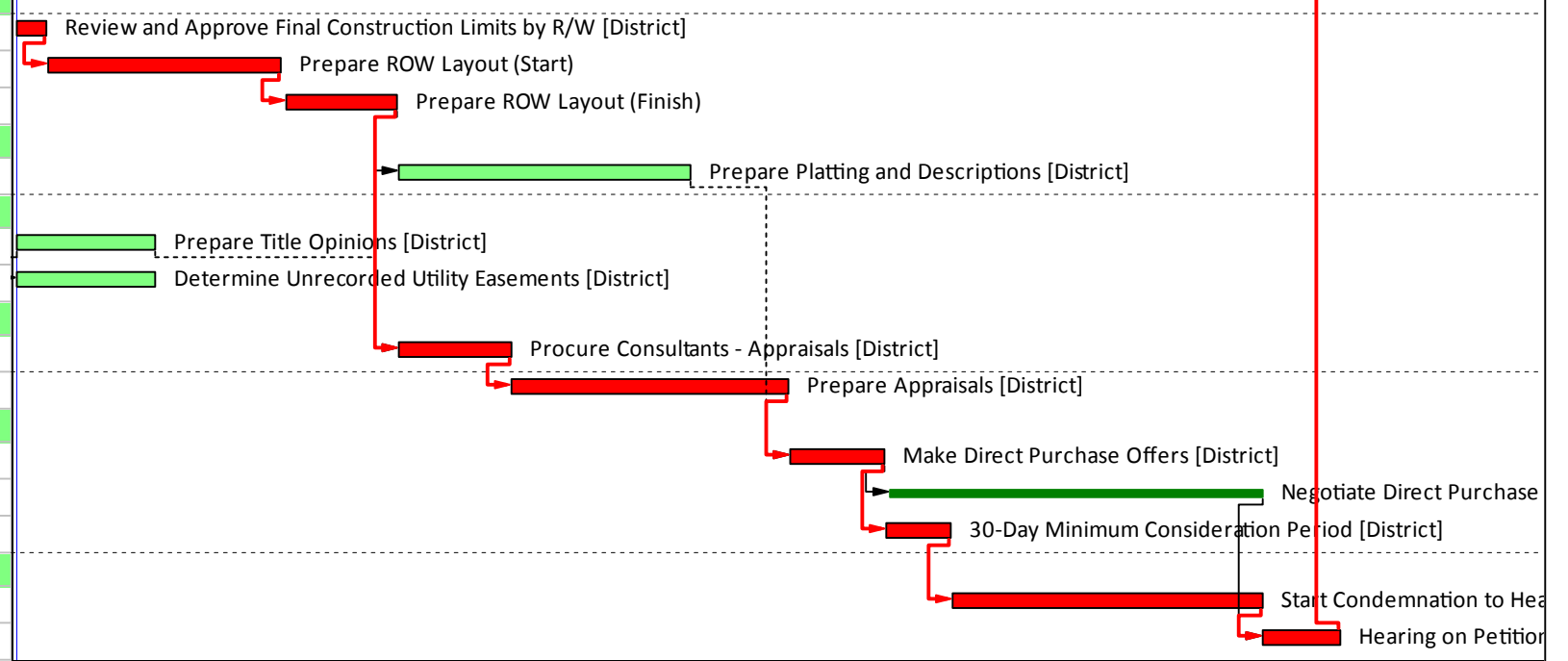
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		Commissioner's Orders (Metro)			2018					
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Commissioner's Orders (Metro)			82							
Commissioner's Orders (Metro)			82							
Right of Way Package			60							
RWP1000	Prepare Authorization & Work Maps [District]	Districts.Right of Way	40	Prepare Authorization & Work Maps [District]						
RWP1040	Prepare Graphic Order (District) See Notebook	Districts.Right of Way	20	Prepare Graphic Order (District) See Notebook						
RWP1080	Prepare Right of Way Packages (District)	Districts.Right of Way	3	Prepare Right of Way Packages (District)						
Right of Way Pre-Acquisition			22							
RPR1000	Receive and Distribute Right of Way Package [OLM]	R.E. & Policy Dev..ProjCoor&Finance	2	Receive and Distribute Right of Way Package [OLM]						
RPR1090	Prepare Commissioner's Orders (OLM)	R.E. & Policy Dev..Purch & Relocation.Purch	20	Prepare Commissioner's Orders (OLM)						

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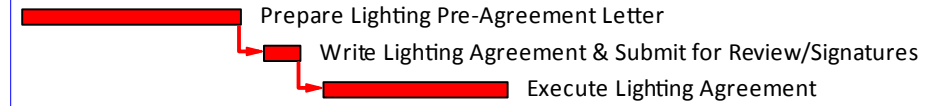
				Acquisition (Metro)																			
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2018						2019						2020							
				Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
Acquisition (Metro)			409																				
Acquisition (Metro)			409																				
Milestones (ROW)			0																				
MS_250	RW Title and Possession Obtained [District]	Districts.Project Management	0																				◆ RW Title and Possession Obtained [District]
Right of Way Package			120																				
RWP2000	Review and Approve Final Construction Limits by R/W [District]	Districts.Right of Way	10																				
RWP2005	Prepare ROW Layout (Start)	Districts.Right of Way	74																				
RWP2010	Prepare ROW Layout (Finish)	Districts.Right of Way	36																				
Right of Way Pre-acquisitions			88																				
RWP2020	Prepare Platting and Descriptions [District]	Districts.Right of Way	88																				
Title Opinions			44																				
RTT2000	Prepare Title Opinions [District]	Districts.Right of Way	44																				
RTT2010	Determine Unrecorded Utility Easements [District]	Districts.District Utilities	44																				
Valuations			121																				
RVL1900	Procure Consultants - Appraisals [District]	Districts.Right of Way	33																				
RVL2000	Prepare Appraisals [District]	Districts.Right of Way	88																				
Direct Purchase			146																				
RDP2000	Make Direct Purchase Offers [District]	Districts.Right of Way	30																				
RDP2005	Negotiate Direct Purchase Offer [District]	Districts.Right of Way	116																				
RDP2010	30-Day Minimum Consideration Period [District]	Districts.Right of Way	30																				
Condemnation			119																				
RED1010	Start Condemnation to Hearing on Petition [OLM]	R.E. & Policy Dev..Legal	97																				
RED1020	Hearing on Petition to Title & Possession [OLM]	R.E. & Policy Dev..Legal	35																				



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		Lighting Agreement			2014				
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	Apr	May	Jun	Jul	Aug	Sept
Lighting Agreement			40						
Lighting Agreement			40						
LGA1000	Prepare Lighting Pre-Agreement Letter	Districts.Lighting	20	Prepare Lighting Pre-Agreement Letter					
LGA1010	Write Lighting Agreement & Submit for Review/Signatures	Districts.Lighting	5	Write Lighting Agreement & Submit for Review/Signatures					
LGA1020	Execute Lighting Agreement	Project Delivery.Co-op Agreements	15	Execute Lighting Agreement					



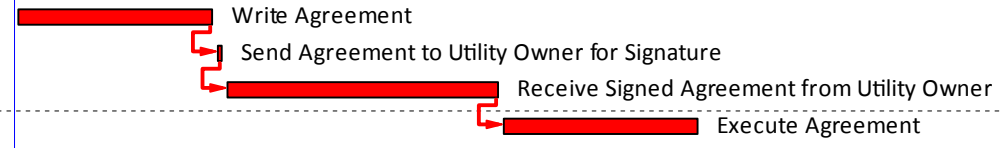
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		Signal Agreement			2014				
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	Aug	Sep	Oct	Nov	Dec	
Signal Agreement			40						
Signal Agreement			40						
SAT1000	Prepare Pre-Agreement Letter for Signal Agreement	Districts.Signals	20	Prepare Pre-Agreement Letter for Signal Agreement					
SAT1010	Write Signal Agreement & Submit for Review/Signatures	Districts.Signals	5	Write Signal Agreement & Submit for Review/Signatures					
SAT1020	Execute Signal Agreement	Project Delivery.Co-op Agreements	15	Execute Signal Agreement					



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				Utility Agreement				
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2016				
				Jun	Jul	Aug	Sep	Oct
Utility Agreement			51					
Utility Agreement			51					
AUT1030	Write Agreement	R.E. & Policy Dev..Utility Agr & Permit	15	Write Agreement				
AUT1040	Send Agreement to Utility Owner for Signature	R.E. & Policy Dev..Utility Agr & Permit	1	Send Agreement to Utility Owner for Signature				
AUT1050	Receive Signed Agreement from Utility Owner	R.E. & Policy Dev..Utility Agr & Permit	20	Receive Signed Agreement from Utility Owner				
AUT1060	Execute Agreement	R.E. & Policy Dev..Utility Agr & Permit	15	Execute Agreement				



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		Cooperative Construction Agreements			2018						2019
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	Jul	Aug	Sep	Oct	Nov	Dec	Jan	
Cooperative Construction Agreements			80								
Cooperative Construction Agreements			80								
ACC1000	Discuss Cost Participation with LGU [District]	Districts.Project Management	20								
ACC1010	Prepare & Submit Cooperative Agreement Request [District]	Districts.Project Management	5								
ACC1020	Agreement Turn In Complete [OPMTS]	Project Delivery.Co-op Agreements	0								
ACC1030	Write Agreement [OPMTS]	Project Delivery.Co-op Agreements	25								
ACC1035	Send/Obtain Signatures [District]	Districts.Project Management	25								
ACC1040	Execute Agreement [OPMTS]	Project Delivery.Co-op Agreements	5								

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				Railroad Flagging Agreement								
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2018						2019		
				Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
Railroad Flagging Agreement			126									
Railroad Flagging Agreement			126									
FAR1000	Receive Notification Of Railroad Impact for Railroad Flagging Agreement	Modal Planning Div..Freight & Commercial	0	◆ Receive Notification Of Railroad Impact for Railroad Flagging Agreement								
FAR1010	Notify District Of Railroad Scope Of Work for Railroad Flagging Agreement	Modal Planning Div..Freight & Commercial	20	■ Notify District Of Railroad Scope Of Work for Railroad Flagging Agreement								
FAR1020	Receive Project Notification From District for Railroad Flagging Agreement	Modal Planning Div..Freight & Commercial	1	■ Receive Project Notification From District for Railroad Flagging Agreement								
FAR1030	Determination Of Flagging Days for Railroad Flagging Agreement	Modal Planning Div..Freight & Commercial	20	■ Determination Of Flagging Days for Railroad Flagging Agreement								
FAR1040	Request Estimate For Railroad Flagging Costs for Railroad Flagging Agreement	Modal Planning Div..Freight & Commercial	20	■ Request Estimate For Railroad Flagging Costs for Railroad Flagging Agreement								
FAR1050	Draft Railroad Flagging Agreement for Railroad Flagging Agreement	Modal Planning Div..Freight & Commercial	20	■ Draft Railroad Flagging Agreement for Railroad Flagging Agreement								
FAR1060	Railroad Company Signatures for Railroad Flagging Agreement	Modal Planning Div..Freight & Commercial	40	■ Railroad Company Signatures for Railroad Flagging Agreement								
FAR1070	MNDOT Signatures on Railroad Flagging Agreement	Modal Planning Div..Freight & Commercial	5	■ MNDOT Signatures on Railroad Flagging Agreement								

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				Railroad Bridge Agreement																	
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2018						2019											
				Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
Railroad Bridge Agreement			285																		
Railroad Bridge Agreement			285																		
BAR1080	Receive Notification Of Railroad Bridge Impact	Modal Planning Div..Freight & Commercial	0	◆ Receive Notification Of Railroad Bridge Impact																	
BAR1090	Notify District Of Railroad Scope Of Work for a Railroad Bridge Impact	Modal Planning Div..Freight & Commercial	20	[Red Bar] Notify District Of Railroad Scope Of Work for a Railroad Bridge Impact																	
BAR1100	Meeting With Railroad Company for a Railroad Bridge Impact	Modal Planning Div..Freight & Commercial	20	[Red Bar] Meeting With Railroad Company for a Railroad Bridge Impact																	
BAR1110	Preliminary Railroad Review for a Railroad Bridge Impact	Modal Planning Div..Freight & Commercial	40	[Red Bar] Preliminary Railroad Review for a Railroad Bridge Impact																	
BAR1120	Incorporate Review Comments for a Railroad Bridge Impact	Modal Planning Div..Freight & Commercial	40	[Red Bar] Incorporate Review Comments for a Railroad Bridge Impact																	
BAR1130	Negotiation With Railroad Company & Bridge Office for a Railroad Bridge Impact	Modal Planning Div..Freight & Commercial	40	[Green Bar] Negotiation With Railroad Company & Bridge Office for a Railroad Bridge																	
BAR1140	Railroad Review of 30% Bridge Plan	Modal Planning Div..Freight & Commercial	40	[Red Bar] Railroad Review of 30% Bridge Plan																	
BAR1150	Determine Flagging Days (Work done by MnDOT Construction Office)	Modal Planning Div..Freight & Commercial	5	[Red Bar] Determine Flagging Days (Work done by MnDOT Construction Office)																	
BAR1160	Required Estimate for Flagging by Railroad	Modal Planning Div..Freight & Commercial	30	[Red Bar] Required Estimate for Flagging by Railroad																	
BAR1170	Railroad Review of 60% Bridge Plan	Modal Planning Div..Freight & Commercial	30	[Red Bar] Railroad Review of 60% Bridge Plan																	
BAR1180	Railroad Review of 95% Bridge Plan	Modal Planning Div..Freight & Commercial	20	[Red Bar] Railroad Review of 95% Bridge Plan																	
BAR1190	Railroad Agreement for a Railroad Bridge Impact	Modal Planning Div..Freight & Commercial	40	[Red Bar] Railroad Agreement for																	

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		Railroad Track Relocation Agreement																							
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2018						2019						2020									
				Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan			
Railroad Track Relocation Agreement			335																						
Railroad Track Relocation			335																						
TAR1180	Receive Notification Of Railroad Impact	Modal Planning Div..Freight & Commercial	0	◆ Receive Notification Of Railroad Impact																					
TAR1190	Notify District Of Railroad Scope Of Work	Modal Planning Div..Freight & Commercial	20	■ Notify District Of Railroad Scope Of Work																					
TAR1200	Concept Level Negotiation for Railroad Track Relocation	Modal Planning Div..Freight & Commercial	30	■ Concept Level Negotiation for Railroad Track Relocation																					
TAR1210	Acquisition of Consultant for Railroad Track Relocation Design	Districts.Project Management	7	■ Acquisition of Consultant for Railroad Track Relocation Design																					
TAR1220	Review of Railroad Track relocation by Railroad Company	Modal Planning Div..Freight & Commercial	40	■ Review of Railroad Track relocation by Railroad Company																					
TAR1230	Incorporate Review Comments from Railroad Company for the Railroad Track Relocation	Modal Planning Div..Freight & Commercial	5	■ Incorporate Review Comments from Railroad Company for the Railroad Track Relocation																					
TAR1240	Revised Railroad Track Relocation Layout	Modal Planning Div..Freight & Commercial	40	■ Revised Railroad Track Relocation Layout																					
TAR1250	Review of Railroad Track Relocation By Railroad Company	Modal Planning Div..Freight & Commercial	40	■ Review of Railroad Track Relocation By Railroad Company																					
TAR1260	Layout Negotiations for Railroad Track Relocation	Modal Planning Div..Freight & Commercial	40	■ Layout Negotiations for Railroad Track Relocation																					
TAR1270	Plan & Estimate for Railroad Track Relocation	Modal Planning Div..Freight & Commercial	80	■ Plan & Estimate for Railroad Track Relocation																					
TAR1280	Railroad Agreement for Railroad Track Relocation	Modal Planning Div..Freight & Commercial	40	■ Railroad Agreement																					

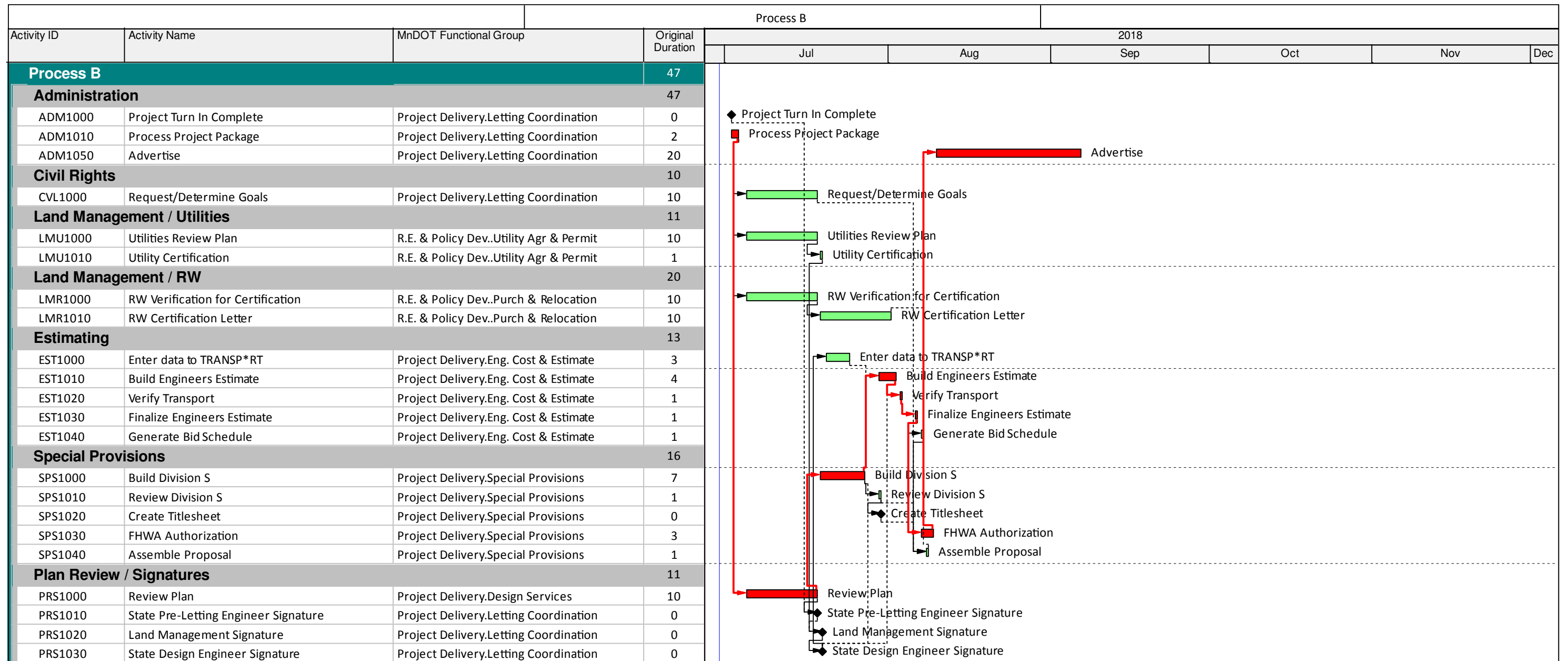
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				Detour Agreement			
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2015			
				Jun	Jul	Aug	Sep
Detour Agreement			5				
Detour Agreement			5				
ADR1000	Prepare Detour Agreement	Districts.Project Management	5	 Prepare Detour Agreement			

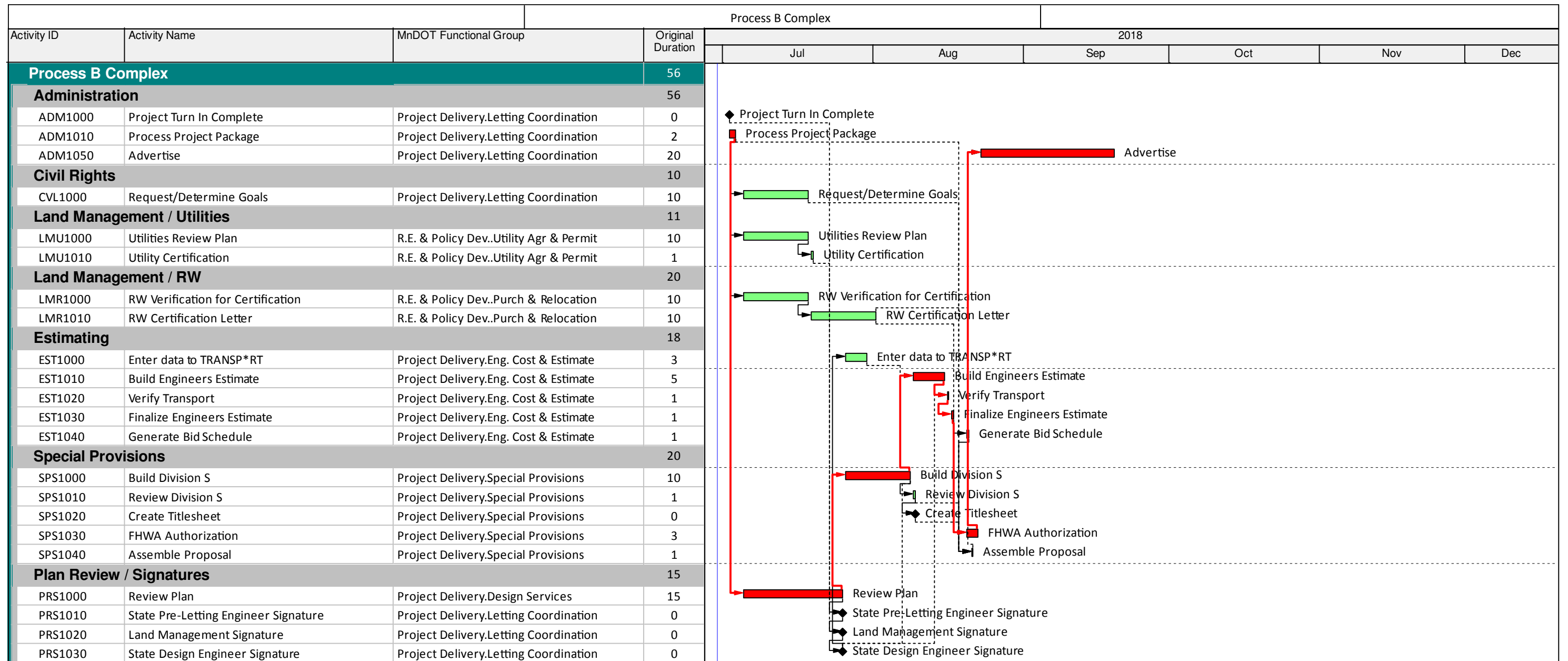
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				Process A				
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2018				
				Jul	Aug	Sep	Oct	Nov
Process A			33					
Administration			33					
ADM1000	Project Turn In Complete	Project Delivery.Letting Coordination	0					
ADM1010	Process Project Package	Project Delivery.Letting Coordination	2					
ADM1050	Advertise	Project Delivery.Letting Coordination	15					
Civil Rights			10					
CVL1000	Request/Determine Goals	Project Delivery.Letting Coordination	10					
Estimating			14					
EST1000	Enter data to TRANSP*RT	Project Delivery.Eng. Cost & Estimate	1					
EST1010	Build Engineers Estimate	Project Delivery.Eng. Cost & Estimate	3					
EST1020	Verify Transport	Project Delivery.Eng. Cost & Estimate	1					
EST1030	Finalize Engineers Estimate	Project Delivery.Eng. Cost & Estimate	1					
EST1040	Generate Bid Schedule	Project Delivery.Eng. Cost & Estimate	1					
Special Provisions			13					
SPS1000	Build Division S	Project Delivery.Special Provisions	5					
SPS1010	Review Division S	Project Delivery.Special Provisions	1					
SPS1020	Create Titlesheet	Project Delivery.Special Provisions	0					
SPS1030	FHWA Authorization	Project Delivery.Special Provisions	3					
SPS1040	Assemble Proposal	Project Delivery.Special Provisions	1					
Plan Review			3					
PRS1000	Review Plan	Project Delivery.Design Services	3					

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				Process B PODI					
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2018					
				Jul	Aug	Sep	Oct	Nov	Dec
Process B PODI			62						
Administration			62						
ADM1000	Project Turn In Complete	Project Delivery.Letting Coordination	0	◆ Project Turn In Complete					
ADM1010	Process Project Package	Project Delivery.Letting Coordination	2	■ Process Project Package					
ADM1050	Advertise	Project Delivery.Letting Coordination	20	■ Advertise					
Civil Rights			10						
CVL1000	Request/Determine Goals	Project Delivery.Letting Coordination	10	■ Request/Determine Goals					
Land Management / Utilities			11						
LMU1000	Utilities Review Plan	R.E. & Policy Dev..Utility Agr & Permit	10	■ Utilities Review Plan					
LMU1010	Utility Certification	R.E. & Policy Dev..Utility Agr & Permit	1	■ Utility Certification					
Land Management / RW			20						
LMR1000	RW Verification for Certification	R.E. & Policy Dev..Purch & Relocation	10	■ RW Verification for Certification					
LMR1010	RW Certification Letter	R.E. & Policy Dev..Purch & Relocation	10	■ RW Certification Letter					
Estimating			17						
EST1000	Enter data to TRANSP*RT	Project Delivery.Eng. Cost & Estimate	3	■ Enter data to TRANSP*RT					
EST1010	Build Engineers Estimate	Project Delivery.Eng. Cost & Estimate	5	■ Build Engineers Estimate					
EST1020	Verify Transport	Project Delivery.Eng. Cost & Estimate	1	■ Verify Transport					
EST1030	Finalize Engineers Estimate	Project Delivery.Eng. Cost & Estimate	1	■ Finalize Engineers Estimate					
EST1040	Generate Bid Schedule	Project Delivery.Eng. Cost & Estimate	1	■ Generate Bid Schedule					
Special Provisions			31						
SPS1000	Build Division S	Project Delivery.Special Provisions	10	■ Build Division S					
SPS1010	Review Division S	Project Delivery.Special Provisions	1	■ Review Division S					
SPS1020	Create Titlesheet	Project Delivery.Special Provisions	0	◆ Create Titlesheet					
SPS1030	FHWA Authorization	Project Delivery.Special Provisions	10	■ FHWA Authorization					
SPS1040	Assemble Proposal	Project Delivery.Special Provisions	1	■ Assemble Proposal					
SPS1050	Address FHWA Comments/Finalize Proposal	Project Delivery.Special Provisions	2	■ Address FHWA Comments/Finalize Proposal					
Plan Review / Signatures			11						
PRS1000	Review Plan	Project Delivery.Design Services	10	■ Review Plan					
PRS1010	State Pre-Letting Engineer Signature	Project Delivery.Letting Coordination	0	◆ State Pre-Letting Engineer Signature					
PRS1020	Land Management Signature	Project Delivery.Letting Coordination	0	◆ Land Management Signature					
PRS1030	State Design Engineer Signature	Project Delivery.Letting Coordination	0	◆ State Design Engineer Signature					

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				Prequalification (Tech Proposal)						
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2018						
				Jun	Jul	Aug	Sep	Oct	Nov	Dec
Prequalification (Tech Proposal)			72							
Administration			72							
ADM1000	Project Turn In Complete	Project Delivery.Letting Coordination	0	◆ Project Turn In Complete						
ADM1010	Process Project Package	Project Delivery.Letting Coordination	2	■ Process Project Package						
ADM1060	Contractor Technical Proposal	Project Delivery.Letting Coordination	20	■ Contractor Technical Proposal						
ADM1070	Review Technical Proposal / Determine Bidders	Project Delivery.Letting Coordination	10	■ Review Technical Proposal / Determine Bidders						
ADM1080	Price Proposal Solicitation	Project Delivery.Letting Coordination	10	■ Price Proposal Solicitation						
Civil Rights			10							
CVL1000	Request/Determine Goals	Project Delivery.Letting Coordination	10	■ Request/Determine Goals						
Land Management / Utilities			11							
LMU1000	Utilities Review Plan	R.E. & Policy Dev..Utility Agr & Permit	10	■ Utilities Review Plan						
LMU1010	Utility Certification	R.E. & Policy Dev..Utility Agr & Permit	1	■ Utility Certification						
Land Management / RW			20							
LMR1000	RW Verification for Certification	R.E. & Policy Dev..Purch & Relocation	10	■ RW Verification for Certification						
LMR1010	RW Certification Letter	R.E. & Policy Dev..Purch & Relocation	10	■ RW Certification Letter						
Estimating			17							
EST1000	Enter data to TRANSP*RT	Project Delivery.Eng. Cost & Estimate	3	■ Enter data to TRANSP*RT						
EST1010	Build Engineers Estimate	Project Delivery.Eng. Cost & Estimate	5	■ Build Engineers Estimate						
EST1020	Verify Transport	Project Delivery.Eng. Cost & Estimate	1	■ Verify Transport						
EST1030	Finalize Engineers Estimate	Project Delivery.Eng. Cost & Estimate	1	■ Finalize Engineers Estimate						
EST1040	Generate Bid Schedule	Project Delivery.Eng. Cost & Estimate	1	■ Generate Bid Schedule						
Special Provisions			21							
SPS1000	Build Division S	Project Delivery.Special Provisions	10	■ Build Division S						
SPS1010	Review Division S	Project Delivery.Special Provisions	1	■ Review Division S						
SPS1020	Create Titlesheet	Project Delivery.Special Provisions	0	◆ Create Titlesheet						
SPS1030	FHWA Authorization	Project Delivery.Special Provisions	2	■ FHWA Authorization						
SPS1040	Assemble Proposal	Project Delivery.Special Provisions	1	■ Assemble Proposal						
Plan Review / Signatures			11							
PRS1000	Review Plan	Project Delivery.Design Services	10	■ Review Plan						
PRS1010	State Pre-Letting Engineer Signature	Project Delivery.Letting Coordination	0	◆ State Pre-Letting Engineer Signature						
PRS1020	Land Management Signature	Project Delivery.Letting Coordination	0	◆ Land Management Signature						
PRS1030	State Design Engineer Signature	Project Delivery.Letting Coordination	0	◆ State Design Engineer Signature						

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				Design Build											
Activity ID	Activity Name	MnDOT Functional Group	Original Duration	2018						2019					
				Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
Design Build			185												
Administration (Design-Build)			185												
DSB1000	Create and Execute GEC Work Order	Districts.Project Management	25	Create and Execute GEC Work Order											
DSB1010	Prepare and Issue Design-Build RFQ	Districts.Project Management	10	Prepare and Issue Design-Build RFQ											
DSB1020	Contractors Develop SOQs	Districts.Project Management	30	Contractors Develop SOQs											
DSB1030	Conduct SOQ Scoring & DB Contractors Shortlisted	OPM&TS.Design Build/CMGC	10	Conduct SOQ Scoring & DB Contractors Shortlisted											
DSB1050	Prepare Design-Build RFP	Districts.Project Management	40	Prepare Design-Build RFP											
DSB1060	Develop District Cost Estimate	Districts.Project Management	20	Develop District Cost Estimate											
DSB1070	Review RFP (CO)	OPM&TS.Design Build/CMGC	10	Review RFP (CO)											
DSB1080	FHWA Authorization	Districts.Project Management	10	FHWA Authorization											
DSB1090	DB RFP Issued	Districts.Project Management	0	DB RFP Issued											
DSB1100	Contractor Prepare Technical Proposals	Districts.Project Management	60	Contractor Prepare Technical Proposals											
DSB1110	Conduct Technical Proposal Scoring	OPM&TS.Design Build/CMGC	10	Conduct Technical Proposal Scoring											
Civil Rights			20												
CVL1000	Request/Determine Goals	OPM&TS.Project Delivery.Letting Coordination	20	Request/Determine Goals											
Land Management / Utilities			10												
LMU1000	Utilities Review Plan	R.E. & Policy Dev..Utility Agr & Permit	5	Utilities Review Plan											
LMU1010	Utility Certification	R.E. & Policy Dev..Utility Agr & Permit	5	Utility Certification											
Land Management / RW			20												
LMR1000	RW Verification for Certification	R.E. & Policy Dev..Purch & Relocation	10	RW Verification for Certification											
LMR1010	RW Certification Letter	R.E. & Policy Dev..Purch & Relocation	10	RW Certification Letter											
Estimating			11												
EST1000	Enter data to TRANSP*RT	OPM&TS.Project Delivery.Eng. Cost & Estimate	3	Enter data to TRANSP*RT											
EST1010	Build Engineers Estimate	OPM&TS.Project Delivery.Eng. Cost & Estimate	5	Build Engineers Estimate											
EST1020	Verify Transport	OPM&TS.Project Delivery.Eng. Cost & Estimate	1	Verify Transport											
EST1030	Finalize Engineers Estimate	OPM&TS.Project Delivery.Eng. Cost & Estimate	1	Finalize Engineers Estimate											
EST1040	Generate Bid Schedule	OPM&TS.Project Delivery.Eng. Cost & Estimate	1	Generate Bid Schedule											

█ Remaining Level of Effort
 █ Actual Work
 █ Critical Remainin...
█ Actual Level of Effort
 █ Remaining Work
 ◆ ◆ Milestone