**CORRESPONDENCE/MEMORANDUM State of Wisconsin**

**Date:** May 26, 2020

**To:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Director, Bureau of Project Development

Attn: (Design Standards and Oversight Chief)

**From:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Region

**Subject:** MODERNIZATION AND REHABILITATION DESIGN STUDY REPORT

Project I.D. (design): 1360-12-00 and (construction) 1360-12-70

STH 145

Bridge # B-40-0252 (old #); B-40-1004 (new #)

Milwaukee County

Having considered the economic and social effects of this project, its impact on the environment, and its consistency with the goals of community planning, we request your approval of the attached design study report.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_

Region Project Development Chief Date

Concur:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_

Bureau of Project Development Date

Design Standards and Oversight Chief

**SAMPLE TITLE SHEET**

**MODERNIZATION AND REHABILITATION DESIGN STUDY REPORT**

Project I.D. (design): 1360-12-00 and (construction) 1360-12-70

STH 145

Bridge #: (old #) B-40-0252; (new #)B-40-1004 (new #)

Milwaukee County

**CONSULTANT'S SEAL**

**MODERNIZATION AND REHABILITATION DESIGN STUDY REPORT**

1. Project Description and Need

The original structure was built in 1964. Since then the bridge has been painted in 1988 and has had 1 deck overlay in 1999. existing bridge deck is experiencing cracking, heavy efflorescence at underside of the deck cracks, delamination and spalling. Heavy rust resides on the bottom flanges of girders over the piers, typically at piers 1 & 2 and paint is and has been largely ineffective at these locations (painted in 1988). Finally, there is a misaligned girder on a bearing seat and medium horizontal cracks at the S. abutment sill with heavy rust at the S. Abutment bearing and missing keeper bar.

|  |
| --- |
| YES |

1.1 Federal Oversight Project (Yes or No):

1.2 Project Length and Termini

|  |
| --- |
| 0.11 MILES |

Project Length:

Termini/Limits:

|  |
| --- |
| 107TH St. Bridge and roadway from Fond du Lac Ave. N/E approx.. 0.11 miles. |

1.3 Existing Roadway Information

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Roadway** | **Functional Class (Principal or Minor Arterial, Collector or Local)** | **Surrounding Development Type? Rural, Urban or Transitional** | **Corridors 2030 or Backbone (No or State Which)** | **NHS Route (Yes or No)** | **Long Truck Route (No or State Federal or State)** | **Access Control Tier** | **On Ped. Trans. Plan (Yes or No)** | **On Bike Trans. Plan (Yes or No)** |
| 107th St. | Minor Arterial | Transitional | No | No | No | N/A | Yes | Yes |
|  |  |  |  |  |  |  |  |  |

Comments:

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| --- |
| Local Road Structure residing over STH 145 |

1.4 Need for Project

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| --- |
| N. backwall is sheared for nearly entire length at beam seat, both abuts may be rotating inward. There are medium cracks typical throughout entire concrete deck overlay (done in 1999) as well as heavy efflorescence at underside of the deck cracks. There is also spall at underside of deck above the East girder at the north pier. Heavy rust resides on the bottom flanges of girders over the piers, typically at piers 1 & 2 and paint is and has been largely ineffective at these locations (painted in 1988). Finally, there is a misaligned girder on a bearing seat and medium horizontal cracks at the S. abutment sill with heavy rust at the S. Abutment bearing and missing keeper bar. |

1.5 Proposed/Selected Alternative (State the Improvement Type and add brief description).

|  |
| --- |
| Newly Reconstructed bridge |

2.0 Existing Facility Information

2.1 Posted Speed

|  |  |  |
| --- | --- | --- |
| **Roadway or Roadway Segment** | **Posted Speed** | **Advisory Speed** |
| 107th St. | 30 mph | 30 mph |
| STH 145 (under bridge) | 55 mph | 55 mph |
|  |  |  |

2.2 Geometrics (S-2 Location only)

2.2.1 Horizontal Alignment Features Outside Design Criteria Not Documented in SCD/FSC (S-2 Location only)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Horizontal Feature\* (Curve, P.I. Deflection, etc.)** | **Location (Stationing)** | **Size\* (Radius, P.I. Deflection, etc.)** | **Super-Elevation\* (S.E.)** | **Speed Rating** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

\* Controlling Criteria for Design Speed ≥ 50 mph

Comments:

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2.2.2 Vertical Alignment Features/SSD\* Outside Design Criteria Not Documented in SCD/FSC (S-2 Location only)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Vertical Feature (Curve, Vertical Grade Deflection, etc.)** | **Location (Stationing)** | **Sag or Crest** | **% Grades\*** | **K Value/ Grade Deflection** | **Speed Rating** | **SSD\*\* Met \*(Yes or No) Length** | **DSD Met (Yes or No) Length** |
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\* Controlling Criteria for Design Speed ≥ 50 mph, \*\*SSD = Stopping Sight Distance

Comments:

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2.2.3 Grades\* and Vertical Clearances\* Outside Design Criteria Not Documented in SCD/FSC (S-2 Location only)

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| **Location (Stationing, Overpass Structures, etc.)** | **% Grade\*** | **Vertical Clearance\*** |
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\*Controlling Criteria for Design Speed ≥ 50 mph

Comments:

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2.3 Side-Roads/ Intersections/ Interchanges Information/Geometrics (S-2 Location only)

2.3.1 Side-Roads Design Information (S-2 Location only)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Roadway** | **Functional Class** | **Posted Speed (MPH)** | **Existing Traffic\*\*\* (AADT)** | **Approach Grades** | **Pedestrian Facilities (Yes or No)** | **Bicycle Facilities (Yes or No)** |
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\*\*\* If Existing Traffic volumes are not available, then state at a minimum whether AADT is assumed to be <100 or >100.

Comments:

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2.3.2 Intersections Geometrics Outside Design Criteria Not Documented in SCD/FSC (S-2 Location only)

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Intersecting Roadway** | **Intersect. Type** | **Intersect. Angle** | **Traffic Control** | **SSD\*\* Met\* (Y/N)/ Length** | **ISD\*\* Met (Y/N)/ Length** | **DSD\*\* Met (Y/N)/ Length** | **Vision Triangle (Y/N)** | **Corner Clearance to Driveways Present (Y/N)** |
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\* Controlling Criteria for Design Speed ≥ 50 mph

\*\* SSD=Stopping Sight Distance, ISD=Intersection Sight Distance, and DSD=Decision Sight Distance (See FDM 11-25-1).

Comments:

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Has intersection control evaluation (ICE) worksheet been coordinated (Yes or No)? \_\_\_\_\_\_\_\_\_\_

2.3.3 Interchanges Geometrics Outside of Design Criteria Not Documented in SCD/FSC (S-2 Location only)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Intersecting Roadways** | **Interchange Type** | **Ramp Types** | **Ramp Design Speed** | **Horizontal Curve on Ramp** | **Vertical Curve on Ramp** | **Ramp Grades** | **SSD\*\* Met\* (Y/N) Length** | **DSD\*\* Met (Y/N) Length** |
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\* Controlling Criteria for Design Speed ≥ 50 mph

\*\*SSD = Stopping Sight Distance, DSD = Decision Sight Distance (See FDM 11-25-1).

Comments:

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2.4 Cross Section(s) Information (S-2 Segments Cross Section Geometrics Outside of Design Criteria Not Documented in SCD/FSC)

- Number of roadways

- Number of lanes

- Median width

- Lane width\*

- Shoulder width\* (Total and Paved or Curb and Gutter)

- Bicycle facility type

- Sidewalk and curb ramps

- Cross slope\*

- Super-elevation\*

- Horizontal clearance\*

- Clear zone

- Vertical clearance\*

- Side-slopes/Ditch sections

\* Controlling Criteria for Design Speed ≥ 50 mph

2.5 Pavement Structure/Condition

|  |  |  |
| --- | --- | --- |
| **Roadway** | **Pavement Types and Thicknesses** | **Physical Description** |
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Comments:

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2.6 Right-of-Way

2.6.1 Encroachments – Attach Encroachment Report

2.6.2 Unique Right-of-Way Issues

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2.7 Structures

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Existing Structure I.D. #** | **Feature Crossed** | **Structure Type** | **Sufficiency Rating** | **Clear Roadway Width\*** | **Railing Type** |
|  |  |  |  |  |  |
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\* Controlling Criteria for Design Speed ≥ 50 mph

Comments:

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|  |

2.8 Utilities

|  |  |  |  |
| --- | --- | --- | --- |
| **Utility Name** | **Type of Utility** | **General Location** | **Underground/ Overhead/Both** |
|  |  |  |  |
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Comments:

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2.9 Railroad Crossings

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Location (Sta.)** | **Railroad Name** | **No. of Tracks** | **Function** | **Crossing Type** |
|  |  |  |  |  |
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Comments:

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2.10 Special Soils Conditions

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2.11 Unique Project Features

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3.0 Traffic Information

3.1 Traffic Volumes/Conditions

3.1.1 Traffic Forecast Report - Attachment

3.1.2 Highway Capacity Analysis

|  |  |  |  |
| --- | --- | --- | --- |
| **Location (Roadway Segment or Intersection)** | **Existing Level of Service** | **Design Year Level of Service Under Existing Roadway** | **Design Year Level of Service Under Proposed Roadway** |
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Comments:

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3.2 Crash Analysis

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Was a Region Safety Certification Document completed? |  | Yes |  | No | |
| Were any crash problems identified? |  | Yes |  | No | |
| If Yes, did you discuss safety mitigation measures with the Region Safety Engineer? |  | Yes |  | No |

Comments:

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4.0 Proposed Design Criteria (S-2/S-3 Locations only)

4.1 Design Class

|  |  |
| --- | --- |
| **Roadway or Roadway Segment** | **Design Class** |
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|  |  |

4.2 Design Speed(s)\* (S-2/S-3 Locations only)

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| --- | --- | --- |
| **Roadway or Roadway Segment** | **Design Speed\*** | **Posted Speed** |
|  |  |  |
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\* Controlling Criteria for all Design Speeds

4.3 Design Justifications (DJs) (S-2/S-3 Locations only)

4.3.1 Controlling Criteria Design Justifications (DJs)

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4.3.2 Non-Controlling Criteria Design Justifications (DJs)

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4.4 Typical Cross Section(s) Alternative Features Considered (S-2/S-3 Locations only)

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5.0 Proposed Design Improvement

5.1 Improvement Type(s)

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5.2 Proposed Geometrics Information (S-2/S-3 Locations only)

5.2.1 Horizontal Alignment\* Information (S-2/S-3 Locations only)

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5.2.2 Vertical Alignment/Stopping Sight Distance\* Information (S-2/S-3 Locations only)

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5.2.3 Grades\* and Vertical Clearances\* Information (S-2/S-3 Locations only)

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\*Controlling Criteria for Design Speed ≥ 50 mph

5.3 Sideroads/Intersections/Interchanges Information (S-2/S-3 Locations only)

5.3.1 Side-Road(s) Information (S-2/S-3 Locations only)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Roadway Name** | **Functional Class** | **Design Speed (MPH)** | **Design Year Traffic (AADT)** | **Design Class** | **Approach Grades** | **Ped. Facilities (Y/N)** | **Bike Facilities (Y/N)** |
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Comments:

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5.3.2 Intersection(s) Information/Proposed Geometrics (S-2/S-3 Locations only)

| **Intersecting Roadway Names** | **Intersect. Type** | **Intersect. Angle** | **Traffic Control** | **SSD\*\* Met\* (Y/N)/ Length** | **ISD\*\* Met (Y/N)/ Length** | **DSD\*\* Met (Y/N)/ Length** | **Vision Triangles Proposed (Y/N)** | **Corner Clearance to Driveways Met (Y/N)** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
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\* Controlling Criteria for Design Speed ≥ 50 mph

\*\* SSD = Stopping Sight Distance, ISD = Intersection Sight Distance, DSD = Decision Sight Distance (See FDM 11-25-1).

Comments:

|  |
| --- |
|  |

Has intersection control evaluation (ICE) worksheet been coordinated (Yes or No)? \_\_\_\_\_\_\_\_\_

5.3.3 Interchange(s) Information/Proposed Geometrics (S-2/S-3 Locations only)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Name of Intersecting Roadways** | **Interchange Type** | **Ramp Type** | **Ramp Design Speed** | **Ramp Grades** | **SSD\*\* Met\* (Y/N)/ Length** | **DSD\*\* Met (Y/N)/ Length** | **Vision Triangle (Yes or No)** |
|  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |

\*Controlling Criteria for Design Speed ≥ 50 mph

\*\*SSD = Stopping Sight Distance, DSD = Decision Sight Distance (See FDM 11-25-1).

Comments:

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|  |

5.4 Roundabout(s) Information

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| --- |
|  |

5.5 Cross Section/Pavement Structure Information (See attached Typical Section(s) for any S-1 Segments if they exist on Project) (S-2/S-3 Locations only)

- Number of roadways

- Number of lanes

- Median width/type

- Lane width\*/type (Driving, Parking, Bike Lane, etc.)

- Shoulder width\* (Total and Paved or Curb and Gutter)

- Bike facilities proposed

- Pedestrian facilities/sidewalk proposed

- Cross slope\*

- Super-elevation\*

- Horizontal clearance\*

- Vertical clearance\*

- Pavement structure

- Clear zone

- Side-slope/Ditch sections

\*Controlling Criteria for Design Speed ≥ 50 mph

5.6 Street Lighting Improvements

|  |  |  |
| --- | --- | --- |
| **Location** | **Type** | **Break-away Requirements** |
|  |  |  |
|  |  |  |

5.7 Structure Improvements Information

5.7.1 Bridge Structures

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Structure I.D. #** | **Location** | **Structure Type** | **Length** | **Clear Width\*** | **No. of Spans** | **Vertical Clearance\*** | **Horizontal Clearance\*** |
|  |  |  |  |  |  |  |  |
|  | **Proposed Improvement:** | |  | | | | |
|  |  |  |  |  |  |  |  |
|  | **Proposed Improvement:** | |  | | | | |
|  |  |  |  |  |  |  |  |
|  | **Proposed Improvement:** | |  | | | | |

\* Controlling Criteria for Design Speed ≥ 50 mph

Comments:

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5.7.2 Box Culverts and Multiple Pipe Structures

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Structure I.D. #** | **Location** | **Type** | **Length** | **No. Pipes** |
|  |  |  |  |  |
|  | **Proposed Improvement:** |  | | |
|  |  |  |  |  |
|  | **Proposed Improvement:** |  | | |

Comments:

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5.7.3 Retaining Walls and Noise Barrier Structures

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Structure I.D. #** | **Location** | **Type** | **Length** | **Height** |
|  |  |  |  |  |
|  | **Proposed Improvement:** | | | |
|  |  |  |  |  |
|  | **Proposed Improvement:** | | | |

Comments:

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5.7.4 Sign Bridge Structures

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Structure I.D. #** | **Location** | **Type** | **Length** | **Clear Roadway Width** | **Vertical Clearance\*** | **Horizontal Clearance\*** | **Clear Zone Under** |
|  |  |  |  |  |  |  |  |
|  | **Proposed Improvement:** | | | | | | |
|  |  |  |  |  |  |  |  |
|  | **Proposed Improvement:** | | | | | | |

\* Controlling Criteria for Design Speed ≥ 50 mph

Comments:

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5.7.5 Tunnel Structures

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Structure I.D. #** | **Location** | **Type (Veh., Ped., Bicycle, etc.)** | **Length** | **Lighting Type** | **Vertical Clearance\*** | **Horizontal Clearance\*** | |
|  |  |  |  |  |  |  |
|  | **Safety Features** | | | **Coordination with Local Emergency Responders** | | | |
|  |  | | |  | | | |
|  | **Proposed Improvement:** | | | | | | |
|  |  |  |  |  |  |  |
|  | **Safety Features** | | | **Coordination with Local Emergency Responders** | | | |
|  |  | | |  | | | |
|  | **Proposed Improvement:** | | | | | | |

\* Controlling Criteria for Design Speed ≥ 50 mph

Comments:

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5.7.6 Touchdown Points on Local Bridge Program Projects

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5.8 Permanent Traffic Control

Will permanent signs be installed (Yes or No)? \_\_\_\_\_\_\_\_

Are non-standard sign layout details needed (Yes or No)? \_\_\_\_\_\_\_\_

Comments:

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5.9 Safety Enhancements/Mitigation Measures

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5.10 Real Estate

5.10.1 Real Estate Acquisition

Plat I.D.:

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| --- | --- | --- | --- | --- | --- |
| **Relocations** | | **Land (Acres)** | **Permanent Easements** | **Temporary Easements** | **Construction Permits** |
| Type | Number |
|  |  |  |  |  |  |
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Comments:

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5.10.2 Encroachments and Access Control, if applicable (Attach Encroachment Report and describe Access Control)

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5.11 Utilities

Is Project Trans 220 Utility Project (Yes or No)? \_\_\_\_\_\_\_

Describe any special design features to accommodate utilities:

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| --- |
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Major Utility Agreements:

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Comments:

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5.12 Railroads

Describe improvements to Railroad Facilities:

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Railroad Agreements:

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Comments:

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5.13 Financing and Scheduling

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Construction I.D.** | **Cost Estimate** | **Type of Funding** | | | **Proposed Timeframe for Construction** | **Ties to Other Work or Projects** | **Alternative Contracting (Yes or No)** |
| **% Fed.** | **% State** | **% Local** |
|  |  |  |  |  |  |  |  |
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Describe Alternative Contracting:

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| --- |
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Non-participating Work:

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| --- |
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Deferred Construction Work (Preventative Maintenance projects):

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5.14 Unique Project Features

5.14.1 Hazardous Waste

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5.14.2 Environmental Commitments

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5.14.3 Community Sensitive Design/Public Involvement

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5.14.4 Value Engineering

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6.0 Synopsis

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| --- | --- | --- |
| **Reports, Documents and Coordination** | **Completion/ Approval Dates (xx/xx/xxxx)** | **Status of Coordination or Other Information as Needed** |
| Concept Definition Report (CDR) |  |  |
| Safety Certification Document (SCD) |  |  |
| Bridge or Structure Certification Document Approval (BOSCA) (if needed) |  |  |
| Risk Assessment (RA) (if needed) |  |  |
| Signed Pavement Design Report (PDR) |  |  |
| Public Involvement Plan (PIP) |  |  |
| Structure Survey Report (SSR) (if needed) |  |  |
| Public Information Meeting(s) (PIM(s)) |  |  |
| Signed State Municipal Agreement(s) (SMA(s)) (if needed) |  |  |
| Native American Lands of Interest (NALI) Scoping Determination |  |  |
| Final Scope Certification (FSC) |  |  |
| SHPO Coordination Acceptance (Section 106, etc.) (SHPO) |  |  |
| DNR Coordination Acceptance (401 Cert., etc.) (DNR) |  |  |
| Preliminary Plan Review Complete (PPRC) |  |  |
| Preliminary Structure Plan Review Complete (PSPRC) (if needed) |  |  |
| Signed Environmental Document (ED) (Type: ? ) |  |  |
| Interstate Access Justification Report (IAJR) |  |  |
| Transportation Management Plan (TMP(s)) (Type: ? ) |  |  |
| Freight/OSOW Accommodations Coordination (FOAC) |  |  |
| Roadside Hazard Analysis Sheet (RHA) (if needed) |  |  |
| Drainage Design Report (DDR) (if needed) |  |  |
| Status of Statutory Actions (if needed) |  |  |

Comments:

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| --- |
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7.0 Attachments

- Project Location/Overview Map

- As-built Plan Sheet(s) (for Rehabilitation S-2 segments only)

- Existing Typical Cross Section(s)/ Finished/Proposed Typical Cross Section(s)

- Encroachment Report (If applicable) (see [FDM 12-1-20](https://wisconsindot.gov/rdwy/fdm/fd-12-01.pdf#fd12-1-20))

- Safety Certification Document (SCD) with Contributing Geometric Analysis (CGA) (If applicable) (see [FDM 11-38](https://wisconsindot.gov/rdwy/fdm/fd-11-38.pdf#fd11-38))

- Traffic Forecast Report

- Preliminary Plan Sheet(s)

- Critical Design Parameters Chart for Each roundabout proposed (if applicable)

- Environmental Commitments Basic Sheet (if applicable) (include coordination letters)

- Roadside Hazard Analysis Form Template

- ADA Technically Infeasible documentation

- Non-Compliant Roadside design