CONCEPT DEFINITION REPORT (a working file of this template: FDM 11-4 A1.1 File 1)

Date	re:To):	From: Region	
I.	Design ID:	Related ID(s):		
	_			
	County:			
	Functional Class:Current AADT:LOCATION:			
	A. Roadway Conditions:			
•••	-	Width:	Year [.]	
	IRI:			
	Shoulder: Type:		-	
			to RP	
	Safety Mitigations Included:			
	9	· ·		
	Bridge Number:			
	Clear roadway width:			
			Existing Facility	
	JUSTIFICATION:			
III.	PROPOSED IMPROVEMEN	T:		
	Environmental documentation	n type:		
	Improvement Type:	PMS	SID:	
	Cost:	Program Year:	Program:	
	Local Participation:	Access	Control:	
	Real Estate:	R/E Cost:		
	NATIONAL HIGHWAY SYST	EM:	EXEMPT:	
	Railroad Crossing/Structure:			
Proj	ject Supervisor:	Reco	mmend Acceptance:	
Acc	cepted By:	Date:		

The following instructions are for use in completing the standardized Concept Definition Report (CDR) format. A CDR can be prepared by simply filling out the form shown (type or print please). The information requested is the minimum needed to show the "where", "why" and "what" aspects of the project as well as give some preliminary indications about critical issues such as local participation, environmental document type, access control, etc.

Тор		
Portion:	Date: Date the CDR is completed or submitted.	
	From: Region number.	
Section I.	Design ID. 8 - digit FOS ID number. This will usually be completed by DOT if a consultant prepares the report.	
	Related Design ID(s) - FOS ID's for associated design projects; that is, projects tied to this one for bidding purposes. This most commonly occurs with bridges.	
	Highway No. or Local Road Name - Self-explanatory (e.g. USH 12)	
	Title : Project limits or termini (i.e. CTH "X" - Sunset drive) or common name for the project (e.g. Crandon Overhead) when termini are not applicable.	
	County - Self-explanatory.	
	Length - In miles to nearest one hundredth for most highway projects and number of feet for bridges.	
	Functional Class - Self-explanatory (e.g. Principal Arterial)	
	Current ADT - Average daily traffic for most recent year counted. If counts were made at more than one location on the project, list the range of values.	
	Location - General description of the area (e.g. north of the City of Whitewater in northwestern Walworth County). This is required only if the location is not readily discernible from the description under Title above.	
Section II	Pavement Type - Indicate whether the existing pavement is concrete (PCC) or asphaltic (AC) or road mix.	
	Pavement: Width - Total width of existing travel lanes in feet. Gutter widths should be included for urban roadways but indicate "F-F" after the dimension. Do not include shoulder paving.	
	Pavement Year - Year the existing pavement was constructed.	
	Pavement: IRI - Latest International Roughness Index. This is required for <u>rural STH projects</u> only but should be included for local projects also if the data is available.	
	Pavement: PDI - Latest Pavement Distress Index rating. This is required for <u>STH projects only</u> but should be included for local projects also if the data is available.	
	Shoulder Type - Surface type: turf, aggregate, asphalt paving (AC), or concrete paving (PCC).	
	Shoulder Width - Total width. If paved also indicate the paved width.	
	Alignment Features Outside of Design Criteria: Horizontal and Vertical - At a minimum provide a "yes" or "no" response. If information is available indicate the number of curves by speed rating (in 5 mph increments) which are outside of design criteria (below posted speed).	
	Safety Sites of Promise: For Perpetuation and Rehabilitation projects, identify sites of promise as described in FDM 11-38-10.	

Section II - cont.	
	Structure Type - Existing bridge type as commonly described by bridge engineers (e.g. steel girder, slab span, haunched slab, concrete box culvert, etc.)
	Bridge Number - WisDOT assigned bridge number(s) (e.g. B-28-0064). If there are bridges within the project limits, complete this section whether or not they are proposed for improvement. List all bridges within the project.
	Bridge: Year Constructed - Year construction of the existing structure was completed.
	Clear Roadway Width - Distance between sidewalk curbs or parapet walls.
	SR - Latest Sufficiency Rating for the structure.
	RS - Latest Rate Score for the structure.
	Railroad - Name of railroad.
	Existing Facility - At grade crossing or grade separation. If crossing, specify current warning device (cross bucks only, flashing light signals, cantilevers, gates.)
	Justification - Brief statement describing problems with the existing facility. This is required only if data showing the deficiencies is not available or if the deficiencies are not readily apparent from the data given (e.g. PDI may be fairly low even though there is severe pavement rutting or faulting).
Section III	Proposed Improvement - Narrative recommendation; a description of the major elements of the proposed project (e.g. Perpetuation, Rehabilitation, Modernization, reconstruct, resurface and, widen shoulders to 6 feet, overlay bridge deck, etc.). The proposed improvement would logically address the deficiencies stated in "Justification."
	Environmental Document Type - Proposed environmental action type as defined in Facilities Development Manual and <u>FDM 20-15-1</u> .
	Improvement Type - Program name for the type of improvement. These are identified in <u>FDM</u> <u>3-5-2</u> .
	PMSID - Program Management System ID number. This is a 10-digit program identifier assigned by the Region SPO Section. This is required for <u>STH project only.</u>
	Cost - Anticipated cost of construction, real estate, utilities, and railroads.
	Program Year - Fiscal year for which construction dollars are included in the applicable program.
	Program - Title of the applicable program (i.e. Interstate, HES, Local Bridge, etc.) or (some prefer to show Program Code, or both).
	Local Participation - Identify whether cost sharing is expected to apply or there will be substantial amounts of non-participating work (i.e. parking lanes). Indicate "yes" or "no". This is required for STH projects only.
	Access control - Identify whether or not access control will be acquired as part of the project. If it will, indicate whether the route is TIER I or TIER II. If it won't, write "N/A". If existing, write "Exist." This is required for STH projects only .
	Real Estate: Right of Way Acquisition. Anticipated "None", "Minor" or "Yes".
	National Highway System - Identify if the project is located on the NHS by entering "yes" or "no."
	Exempt - If the project is on the NHS and based on the estimated construction dollar value (including estimated right-of-way costs) and the improvement type, determine whether project development will be subject to FHWA oversight, or exempt, and identify by entering "Yes" (exempt) or "No" (oversight). See Facilities Development Manual FDM 5-5-15.
	Railroad Crossing/Structure: Identify what work is proposed at each existing crossing on (or within 1000 feet of) the project or if new crossings are being proposed.

Bottom Portion	Project Supervisor - Provide the name of the Region supervisor who will be responsible for the project.	
	Recommended for Acceptance - Provide the name of the Region SPO or PD Supervisor who is responsible for preparing the Concept Definition Report.	
	Accepted By - Region Director, Manager, or Designee, Date.	
	Other acknowledgements.	

Final Scope Certification

(For a working file of this template: FDM 11-4 A3.1 File 1)

Date: Enter date.	
Project I.D. (design/construction): Enter text.	
Route: Enter text.	
Title/Limits: Enter text.	
Bridge # (if applicable): Enter text.	
County: Enter text.	
Improvement Concept Code: Enter text.	
Improvement Strategy (select one):	
☐ Perpetuation	
☐ Rehabilitation	
☐ Modernization	
Having considered the criteria and documentation	attached we concur and approve the Final Scope.
Concurrence:	
Region Project Development Chief or delegate:	
Region Technical Services Chief or delegate:	
Region Operations Chief or delegate:	
	I
Bureau of Project Development – Design	
Standards and Oversight Chief or delegate:	
Approval:	
Region Programming/Planning Chief	Date

Final Scope Certification location (enter link): Enter text.

Project Information

Scope

Purpose and need:

Enter text.

Summary of scope of work:

Enter text.

Schedule & Budget

Milestone Schedule (milestones shown in FDM 3-1 Attachment 1.1)

Project Initiation Complete (LC00)	Enter date.
Preliminary Scope Complete	Enter date.
Final Scope Certification (proposed LC11)	Enter date.
Final Resourcing/Start Final Design (LC12)	Enter date.
Design Study Report (LC15)	Enter date.
Plat Complete/Real Estate Start	Enter date.
DT1078 Plan Submittal	Enter date.
Real Estate Complete/Utility Relocation Begin	Enter date.
Early PS&E	Enter date.
PS&E	Enter date.
Project Let (Programmed)	Enter date.
Project Award (based on Programmed)	Enter date.

Detail schedule (enter link):

Enter text.

Major Bid Item estimate (enter link):

Enter text.

Non-Let schedule and estimates:

RE	\$ Enter text.	Schedule date Enter date.
RR	\$ Enter text.	Schedule date Enter date.
UTL	\$ Enter text.	Schedule date Enter date.
MISC	\$ Enter text.	Schedule date Enter date.

Certifications

Safety and Operations Certification Document

Safety and Operations Certification Document date: Enter date.

Hyperlink to location: Enter text.

Safety Certification

Is there a Safety Site of Promise (SSOP) within the project limits? □Yes □No Regardless of SSOP, were any safety countermeasures analyzed and included in the project scope? □Yes □No

Brief summary of countermeasures analyzed: Enter text.

Operations Certification

☐ Operations Certification Process was not completed
OR
$\hfill \Box$ Operations Certification Process was completed for the following locations:
Enter text.

Brief summary of improvements analyzed: Enter text.

Bureau of Structure Certification Document

□ No bridges or	r ancillary structures are located within project limits.
☐ There is no w	ork needed on following bridges or ancillary structures within the project limits.
□ Bridge or and Enter text.	sillary structures work is being done under a separate project at the following locations:
☐ Bureau of Str Enter text.	ructure Certification Document (BOSCD) was competed for the following locations:
	BOSCD date: Enter date.
	Hyperlink to location of BOSCD: Enter text.
	Brief summary of treatment recommendations: Enter text.

Pavement Design

Pavement Design Report date: Enter date.

Hyperlink to location of Pavement Design Report: Enter text. Brief summary of treatment recommendations: Enter text.

Environmental

Risk Based Environmental Scoping Template (RBEST) or draft environmental document date: Enter date.

Hyperlink to location of RBEST or draft environmental document: Enter text.

Brief summary of any significant issues and expected final environmental document type: Enter text.

Native American Lands of Interest (NALI) Scoping Determination date: Enter date.

Hyperlink to location of NALI Scoping Determination document: Enter text.

Brief summary of any significant issues noted in NALI and indicate if Native American Hiring Provision is required: Enter text.

Resiliency Scoping Certification (F4R) date: Enter date.

Hyperlink to location of Resiliency Scope Certification: Enter text.

Brief summary of F4R determination: Enter text.

Risk and Performance Management

Scope

Program Effectiveness Measure (PEM)

If not a 3R Allocated project, use the justification to identify what type of project this is and skip the other questions in this Program Effectiveness Measure section.

Theme recommended improvement (PEM): Choose an item.

Proposed improvement: Choose an item.

Is proposed improvement within one level on the Program Effectiveness scale? \Box Yes \Box No

If no, explain:

Enter text.

Other explanation:

Enter text.

Schedule

Delivery Risk

Months between LC11 and controlling (earliest) PSE: Enter text.

Does the milestone schedule allow for the project to reach LC11 and LC15 in accordance with

	FDM 11-4 Attachment 3.1 Final Scope Certification
	Delivery Risk Guidelines? □Yes □No
	What schedule risks exist based on the agreed to project scope (environmental, real estate, utilities railroad, etc.)? Include any mitigation strategies being proposed to address the identified schedule risks. Enter text.
Budget	
_	ery Budget
	Delivery Budget Worksheet (Link): Enter text.
	What delivery budget risks exist based on the agreed to project scope? Include any mitigation strategies being proposed to address the identified risks.
	Enter text.
Proje	ct Budget (let and non-let)
	What non-let budget (real estate, utilities, railroad, etc.) risks exist based on the agreed to project scope? Include any mitigation strategies being proposed to address the identified risks.
	Enter text.
	What construction budget (let) risks exist based on the agreed to project scope? Include any mitigation strategies being proposed to address the identified risks. Enter text.
	If this is funded by source other than 3R Allocated or Backbone, does the current project estimate match what the funding program approved?
	☐Yes ☐No ☐N/A (funded by 3R or BB) If yes, attached the project approval documentation or most recent change management approval document to verify estimate correlation.
	If no, then STOP. This project cannot be move into FSC until estimate has been approved by approval authority for that funding source.
Supplemental Data Scoping notes Enter text.	s (enter link):
ICE (enter linl Enter text.	x):
Tech memos Enter text.	(enter links):
Preliminary dr Enter text.	rawings/preliminary plan (enter link):

SAMPLE TRANSMITTAL LETTER

(For a working file of this template: FDM 11-4 A10.1 File 1)

CORRES	PONDENCE/MEMORANDUM	State of Wisconsin
Date: _	, 20	
	Director, Bureau of Project Development ttn: (Design Standards and Oversight Chief)	
From:	Region	
Subject:	PERPETUATION DESIGN STUDY R Project I.D. (design) (CTH, Local (choose one)) Bridge # (if applicable) County	
		this project, its impact on the environment, and its request your approval of the attached design study report
Region P	roject Development Chief	 Date
Concur:		
	f Project Development,	 Date
Design St	tandards and Oversight Services Chief	

SAMPLE TITLE SHEET

PERPETUATION STUDY REPORT

Project I.D. (design)	
(construction):	
(STH, IH, USH, CTH, Local (choose one))	
Bridge # (if applicable)	
County	

CONSULTANT'S SEAL

PERPETUATION DESIGN STUDY REPORT

(Principal or MinorSurrounding DevelopmentCorridors 2030 or Arterial,Route Type? Rural, Collector or Urban orCorridors 2030 or Backbone (No or State (Yes Federal Control (Yes or (Yes)))	Project Length:	XX.XXX							
Functional Class (Principal or Minor Arterial, Collector or Local) Surrounding Or Minor Arterial, Collector or Transitional Surrounding Or Minor State (No or State (Yes Federal Or No) Or State (Yes or No) Or State	ermini/Limits:								
Functional Class (Principal or Minor Arterial, Collector or Local) Surrounding Development Type? Rural, Urban or Transitional Surrounding Or NHS (No or State (Yes Federal or No) State (Yes Federal or No) State (Yes or No) State (Yes Federal or No) State (Yes or No) Stat									
Functional Class (Principal or Minor Arterial, Collector or Local) Surrounding Development Type? Rural, Urban or Transitional Surrounding Development Type? Rural, Collector or Local) Surrounding Development Type? Rural, Urban or Transitional Surrounding Development Type? Rural, Collector or Transitional Surrounding Development Type? Rural, Collector or Transitional Surrounding Development Type Federal or No) State (Yes Federal or No) State (Yes Federal or No) Surrounding Truck Route (Yes Federal or No) State (Yes Federal or No) Surrounding Truck Route (Yes Federal or No) State (Yes Federal or No) Surrounding Truck Route (Yes Federal or No) State (Yes Federal or No) Surrounding Truck Route (Yes or No) State (Yes Federal or No) Surrounding Truck Route (Yes or No) State (Yes Federal or No) Surrounding Truck Route (Yes or No) State (Yes Federal or No) Surrounding Truck Route (Yes or No) State (Yes Federal or No) Surrounding Truck Route (Yes or No) State (Yes Federal or No) State (Yes Federal or No) Surrounding Truck Route (Yes or No) State (Yes Federal or No) Surrounding Truck Route (Yes or No) State (Yes Federal or No) Surrounding Truck Route (Yes or No) State (Yes Federal or No) State (Yes Federal or No) Surrounding Truck Route (Yes or No) State (Yes Federal or No) State (Yes Federal or No) State (Yes or No) St									
Class (Principal or Minor Arterial, Collector or Local) Roadway Roadway Class (Principal or Minor Arterial, Collector or Local) Roadway Comments: 1.4 Need for Project Comments: Class (Principal or Minor Arterial, Collector or Local) Comments: Comments:	1.3 Existing Ro	adway Inform	ation	T		Γ	Γ	T	
1.4 Need for Project 1.5 Proposed/Selected Alternative (State the Improvement Type and add brief description). 2.0 Existing Facility Information 2.1 Posted Speed Posted Speed Advisory Speed	Roadway	Class (Principal or Minor Arterial, Collector or	Development Type? Rural, Urban or	2030 or Backbone (No or State	Route (Yes	Truck Route (No or State Federal	Control	Ped. Trans. Plan (Yes or	On Bike Trans Plan (Yes o No)
1.4 Need for Project 1.5 Proposed/Selected Alternative (State the Improvement Type and add brief description). 2.0 Existing Facility Information 2.1 Posted Speed Posted Speed Advisory Speed									
1.4 Need for Project 1.5 Proposed/Selected Alternative (State the Improvement Type and add brief description). 2.0 Existing Facility Information 2.1 Posted Speed Posted Speed Advisory Speed									
.5 Proposed/Selected Alternative (State the Improvement Type and add brief description). 2.0 Existing Facility Information 2.1 Posted Speed Posted Speed Advisory Speed	Comments:								
2.0 Existing Facility Information 2.1 Posted Speed Posted Speed Advisory Speed									
2.0 Existing Facility Information 2.1 Posted Speed Posted Speed Advisory Speed	.4 Need for Pr	oiect							
2.0 Existing Facility Information 2.1 Posted Speed Posted Speed Advisory Speed		-,							
2.0 Existing Facility Information 2.1 Posted Speed Posted Speed Advisory Speed		-,							
2.0 Existing Facility Information 2.1 Posted Speed Posted Speed Advisory Speed		3,000							
2.1 Posted Speed Posted Speed Advisory Speed	5 Proposed/9		nativo (Stato the	Improvement	Type an	d add brie	f descripti	on)	
2.1 Posted Speed Posted Speed Advisory Speed	l.5 Proposed/S		native (State the	Improvement	Type an	d add brie	f descripti	on).	
2.1 Posted Speed Posted Speed Advisory Speed	.5 Proposed/S		native (State the	Improvement	Type an	d add brie	f descripti	on).	
2.1 Posted Speed Posted Speed Advisory Speed	I.5 Proposed/S		native (State the	Improvement	Type an	d add brie	f descripti	on).	
Posted Speed Advisory Speed		Selected Alterr		Improvement	Type an	d add brie	f descripti	on).	
Roadway or Roadway Segment Posted Speed (MPH) (MPH)		Selected Alterr		Improvement	Type an	d add brie	f descripti	on).	
	2.0 Existing Fa	Selected Alterr		Improvement	Type an	d add brie	f descripti	on).	
	2.0 Existing Fa 2.1 Posted Spe	selected Alterr	ion		osted Spo		Advisory Sp		
	2.0 Existing Fa	selected Alterr	ion		osted Spo		Advisory Sp		
	2.0 Existing Fa 2.1 Posted Spe	selected Alterr	ion		osted Spo		Advisory Sp		
	2.0 Existing Fa	selected Alterr	ion		osted Spo		Advisory Sp		
Comments:	2.0 Existing Fa 2.1 Posted Spe	selected Alterr	ion		osted Spo		Advisory Sp		

2.4 Cross Section(s) Information

See attached Existing Typical Section(s)

3.0 Traffic Information

3.1 Traffic Volumes/Conditions

	AADT (Year) (1)
(1) AADT = Average Annual Daily Traffic	
3.2 Safety and Operations Analysis	
Were any safety issues identified?	Yes
Were any operational issues identified?	Yes
ribe any existing safety issues that exist within the	project limits and any other comments:
ribe any existing operational issues that exist withir	n the project limits and any other comments:
4.3 Design Justifications (DJs)	
4.3.1 Controlling Criteria Design Justifications	s (DJs)
4.3.1 Controlling Criteria Design Justifications	s (DJs)
4.3.1 Controlling Criteria Design Justifications 4.3.2 Non-Controlling Criteria Design Justifications	
4.3.2 Non-Controlling Criteria Design Justificat	
4.3.2 Non-Controlling Criteria Design Justificat 5.0 Proposed Design Improvements	
4.3.2 Non-Controlling Criteria Design Justificat 5.0 Proposed Design Improvements	

5.5 Proposed Cross Section/Pavement Structure Information

See attached Proposed Typical Section(s)

5.8 Permanent Traffic Control Information

	FDM 11-4 Att	achment 1	10.1 Perp	etuation L	Design Study Repor	t Template	
Will permar	nent signs be inst	alled?	Ye	es No	1		
5.9 Safety and	Onerations						
Safety Countermeasu	-	nts				_	_
Describe any safety implesing made that will implesing made that will implesion.		g made to	address	existing c	rash issues. Include	e any other enha	ancements that are
Operational Improven	nents						
Describe features expe Summary, if one was co			on the fa	acility. Incl	ude information fro	m the Operation	s Certification
Summary, it one was co	ompleted for the	project.					
5.11 Utilities							
Is Project Trans 2		•					
Describe any spe	ecial design featu	ires to acc	ommoda	te utilities:			
Major Utility Agre	ements:						
0							
<u>Comments:</u>							
5.13 Financing a	and Scheduling	Informati	on			1	
		Тур	e of Fund	ling	Proposed	Ties to Other	Alternative
		_%.	%	. %	Timeframe for	Work or	Contracting
Construction I.D.	Cost Estimate	Fed.	State	Local	Construction	Projects	(Yes or No)
Does Project Req	uire a State/Muni	cipal Agre	ement?		Yes	No	
2000110,0001100		o.pg. o					
5.14 Unique Pro	iect Features						
5.14.1 Does Proje	-	azardoue I	Matorial B	omodiatio	n2 Yes	No	
J. 14. 1 DOES PTOJE	ot ivedaile ally D	azai uvus I	viateriai K	emeulalio	🗀 🖂		

Comments: S.14.2 Does Project contain any Environmental Commitments? Comments: Yes No Comments:

6.0 Synopsis

Reports, Documents and Coordination	Completion/ Approval Dates (xx/xx/xxxx)	Status of Coordination or Other Information as Needed
Concept Definition Report (CDR)		
Safety (and Operations) Certification Document		
Bureau of Structure Certification Document (BOSCD) (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 Document Approval (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: ?)		
DNR approved materials handling plan for Hazardous Materials to be remediated during construction		
Bridge asbestos inspection report for bridge work that will require an asbestos notification to WDNR or WDHS		
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:

7.0 Attachments

- Project Location/Overview Map
- Existing Typical Cross Section(s)/ Finished/Proposed Typical Cross Section(s)
- Safety (and Operations) Certification Document

FDM 11-4 Attachment 10.1 Perpetuation Design Study Report Template

- Preliminary Plan Sheet(s)
- Environmental Commitments Basic Sheet (if applicable) (include coordination letters)
- DNR approved materials handling plan and special provisions (if needed)
- Roadside Hazard Analysis Sheet
- Technical Infeasibility Form
- Non-Compliant Roadside design

60% TMP (Transportation Management Plan)

SAMPLE TRANSMITTAL LETTER

(For a working file of this template: FDM 11-4 A10.2 File 1)

CORRESPO	JNDENCE/MEMORANDUM		State of Wisconsin
Date:	, 20		
То:			
Dire	ector, Bureau of Project Developmen	t	
Attn	: (Design Standards and Oversight	Chief)	
From:			
	Region		
Subject:	MODERNIZATION AND REHA Project I.D. (design) (STH, IH, USH (choose one)) _ Bridge # (if applicable) County		DY REPORT
Hadan and			A our About any singular and a sound its
consistency	sidered the economic and social effe with the goals of community planning	ects of this project, its impacing, we request your approva	t on the environment, and its all of the attached design study report.
_			
Region Proj	ect Development Chief	Date	
Concur:			
	roject Development	Date	
Design Stan	ndards and Oversight Chief		

SAMPLE TITLE SHEET

MODERNIZATION AND REHABILITATION DESIGN STUDY REPORT

Project I.D. (design)	
(STH, IH, USH, CTH, Local (choose one))	
Bridge # (if applicable)	
County	

CONSULTANT'S SEAL

MODERNIZATION AND REHABILITATION DESIGN STUDY REPORT

1.0 Project Des	cription and N	eed						
1.1 Federal Ove	ersight Project	(Yes or No):						
1.2 Project Len	gth and Termi	ni						
Project Length:	XX.XXX							
Termini/Limits:								
1.3 Existing Ro		ation	T	T	1		T	
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)
			<u> </u>					<u> </u>
Comments:			<u> </u>					
1.4 Need for Pr	oject							
1.5 Proposed/S	Selected Alterr	native (State the	e Improveme	nt Type aı	nd add brie	ef descript	ion).	
•		,	<u> </u>			<u> </u>	•	
2.0 Existing Fa	cility Informati	on						
2.1 Posted Spe	ed							
Ro	adway or Roadv	ay Segment		Posted	Speed	Ad	dvisory Sp	eed
2.2 Segments I	nformation/Ge	ometrics (S-2 L	ocation only)					
2.2.1 Horizonta Location only)		-		ria Not Do	ocumented	I in SOCD	/ FSC (S-2	
Horizontal Fea	ture* (Curve, P.I		(Stationing)		(Radius, P.	I. Ele	uper- vation* S.E.)	Speed Rating
			<u> </u>					
-				+			+	

* Controlling Criteria for Design Speed ≥ 50 mph

Comments:

2.2.2 Vertical Alignment Features/SSD* Outside Design Criteria Not Documented in SOCD/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

^{*} Controlling Criteria for Design Speed ≥ 50 mph, **SSD = Stopping Sight Distance

Comments:

2.2.3 Grades* and Vertical Clearances* Outside Design Criteria Not Documented in SOCD/FSC

(S-2 Location only)

Location (Stationing, Overpass Structures, etc.)	% Grade*	Vertical Clearance*

^{*}Controlling Criteria for Design Speed ≥ 50 mph

Comments:

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)

^{***} If Existing Traffic volumes are not available, then state at a minimum whether AADT is assumed to be <100 or >100.

Comments:

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

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)
-------------------------	--------------------	---------------------	--------------------	-----------------------------------	-------------------------------	----------------------------------	-----------------------------	---

^{*} Controlling Criteria for Design Speed ≥ 50 mph

Comments:

2.3.3 Locations Interchanges Geometrics Outside of Design Criteria Not Documented in SOCD/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

^{*} Controlling Criteria for Design Speed ≥ 50 mph

Comments:

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

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

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

2	F	Day	/omo	nt	Qtr.	ıctı.	ro/(² on	dition	
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Roadway	Pavement Types and Thicknesses	Physical Description

Comment	S
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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

^{*} Controlling Criteria for Design Speed ≥ 50 mph

Comments:

2.8 Utilities

Utility Name	Type of Utility	General Location	Underground/ Overhead/Both

Comments:

2.9 Railroad Crossings

Location (Sta.)	Railroad Name	No. of Tracks	Function	Crossing Type

Comments:

2.11 Unique Project Features			
3.0 Traffic Information			
3.1 Traffic Volumes/Conditions			
3.1.1 Traffic Forecast Report - Attac	hment		
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 Propose Roadway
Comments:			
3.2 Safety and Operations Analysis			
Were any safety issues identified?			Yes No
			Yes No
Were any safety issues identified?	t within the project limit	s and any other commen	Yes No
Were any safety issues identified? Were any operational issues identified?	t within the project limit	s and any other commen	Yes No
Were any safety issues identified? Were any operational issues identified?	t within the project limit	s and any other commen	Yes No
Were any safety issues identified? Were any operational issues identified?	t within the project limit	s and any other commen	Yes No
Were any safety issues identified? Were any operational issues identified?		·	Yes No
Were any safety issues identified? Were any operational issues identified? ibe any existing safety issues that exist		·	Yes No
Were any safety issues identified? Were any operational issues identified? ibe any existing safety issues that exist		·	Yes No
Were any safety issues identified? Were any operational issues identified? ibe any existing safety issues that exist		·	Yes No
Were any safety issues identified? Were any operational issues identified? ibe any existing safety issues that exist		·	Yes No
Were any safety issues identified? Were any operational issues identified? ibe any existing safety issues that exist		·	Yes No
Were any safety issues identified? Were any operational issues identified? ibe any existing safety issues that exist		·	Yes No
Were any safety issues identified? Were any operational issues identified? ibe any existing safety issues that exist	exist within the projec	·	Yes No
Were any safety issues identified? Were any operational issues identified? ibe any existing safety issues that exist is in the image of the image	exist within the project	·	Yes No

FDM 11-4 Attachment 10.2 Modernization and Rehabilitation Design Study Report Template

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

Roadway or Roadway Segment	Design Speed*	Posted Speed

^{*} Controlling Criteria for all Design Speeds

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

^{*}Controlling Criteria for Design Speed ≥ 50 mph

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

5.3.1 Side-Roads 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)

Comments:

5.3.2 Intersections 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)

^{*} Controlling Criteria for Design Speed ≥ 50 mph

Comments:

Has an Intersection Control Evaluation (I	CE) been completed (Yes or No)?	
---	---------------------------------	--

5.3.3 Interchanges 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)
<u> </u>				_			

^{*}Controlling Criteria for Design Speed ≥ 50 mph

Comments:

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

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

5.4 Roundabout(s) Information

5.5 Segments Proposed Cross Section/Pavement Structure Information (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 & 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	Туре	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:

5.7.2 Box Culverts and Multiple Pipe Structures

Structure I.D. #	Location	Type	Length	No. Pipes
	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	71-	9	
	Proposed Improvement:			
	Proposed Improvement:			

Comments:

5.7.3 Retaining Walls and Noise Barrier Structures

Structure I.D. #	Location	Туре	Length	Height
		Proposed Improveme	nt:	
		Proposed Improveme	nt:	

Comments:

5.7.4 Sign Bridge Structures

On it Oigh Bridge							
Structure I.D. #	Location	Туре	Length	Clear Roadway Width	Vertical Clearance*	Horizontal Clearance	Clear Zone Under
			Pro	posed Improv	vement:		
			Pro	posed Improv	vement:		

^{*} Controlling Criteria for Design Speed ≥ 50 mph

Comments:

5.7.5 Tunnel Structures

Structure I.D.	Location	Type (Veh., Ped., Bicycle, etc.)	Length	Lighting Type	Vertical Clearance*	Horizontal Clearance
	Safety Features			Coordination with I	Local Emergen	cy Responders
			Proposed	Improvement:		
	S	afety Features		Coordination with	Local Emergen	cy Responders
			Proposed	Improvement:		

^{*} Controlling Criteria for Design Speed ≥ 50 mph

Comments:

.8 Permanent Traffi					
/ill permanent signs l	•				
re non-standard sign	layout details nee	ded (Yes or No)? _			
omments:					
Safety and Operat	ions				
afety Countermeasu escribe any safety im e being made that wi	provements being		xisting crash issu	es. Include any ot	her enhancements
perational Improver	cted to improve op		ility. Include infor	mation from the O	perations Certifica
ımmary, if one was c	ompleted for the p	roject.			
i 9 Real Estate					
	equisition				
.9.1 Real Estate Ad	equisition				
5.9.1 Real Estate Ad			Pormonant	Tompovoru	Construction
.9.1 Real Estate Ad		Land (Acres)	Permanent Easements	Temporary Easements	Construction Permits
.9.1 Real Estate Ad Plat I.D.: Relocat	ions	Land (Acres)			
.9.1 Real Estate Ad Plat I.D.: Relocat	ions	Land (Acres)			
S.9.1 Real Estate Ad Plat I.D.: Relocat	ions	Land (Acres)			
S.9.1 Real Estate Ad Plat I.D.: Relocat	ions	Land (Acres)			
5.9.1 Real Estate Ad Plat I.D.: Relocat	ions	Land (Acres)			
Comments:	Number		Easements	Easements	Permits
Comments:	Number		Easements	Easements	Permits
Comments:	Number		Easements	Easements	Permits
Plat I.D.: Relocat Type Comments:	Number		Easements	Easements	Permits
Relocation Type Comments: 9.2 Encroachmen Control)	Number		Easements	Easements	Permits
.9.1 Real Estate Adriat I.D.: Relocat Type Comments: .9.2 Encroachmen	Number ts and Access Co	ontrol, if applicable	Easements	Easements	Permits

	FDM 11-4 Attachment 10.2 Modernization and Renabilitation Design Study Report Template
Major	lity Agreements:
Comm	ts:

5.12 Railroads							
Describe improver	ments to Railroad	l Facilitie	es:				
Railroad Agreeme	nte:						
Talload Agreeme	1113.						
Comments:							
5.13 Financing ar	nd Schedulina						
<u> </u>		Tva	no of Eur	dina			
			pe of Fun		Proposed	Ties to Other	Alternative
Construction I.D.	Cost Estimate	% Fod	% State	%	Timeframe for Construction	Work or	Contracting (Yes or No)
Construction i.D.	Cost Estimate	Fed.	State	Local	Construction	Projects	(Tes of No)
			·	<u> </u>			
Describe Alternativ	ve Contracting:						
Describe / Merrian	o contracting.						
Non-participating \	Nork:						
Deferred Construc	tion Work (Preve	ntative l	Maintena	ince proje	cte).		
Deletted Collstide	don work (i leve	mative	Mannena	ince proje	Ci3).		
5.14 Unique or No	on-Standard Fea	atures					
5.14.1 Hazardous	Materials						
5.14.2 Environme	ental Commitme	nts					
5.14.3 Communit	y Sensitive Des	ign/Pub	lic Invol	vement			
5.14.4 Value Engi	neering						

6.0 Synopsis

Reports, Documents and Coordination	Completion/ Approval Dates (xx/xx/xxxx)	Status of Coordination or Other Information as Needed
Concept Definition Report (CDR)		
Safety (and Operations) Certification Document		
Bureau of Structure Certification Document (BOSCD) (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)		
DNR Approved Materials Handling plan for hazardous materials to be remediated during construction (if needed)		
Bridge asbestos inspection report for bridge work that will require an asbestos notification to WDNR or WDHS (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:

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)
- Safety (and Operations) Certification Document
- 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)
- DNR approved materials handling plan and special provisions (if needed)

- Roadside Hazard Analysis Form Template
- Technical Infeasibility Form
- Non-Compliant Roadside design

(For a working file of this template: FDM 11-4 A10.3 File 1)

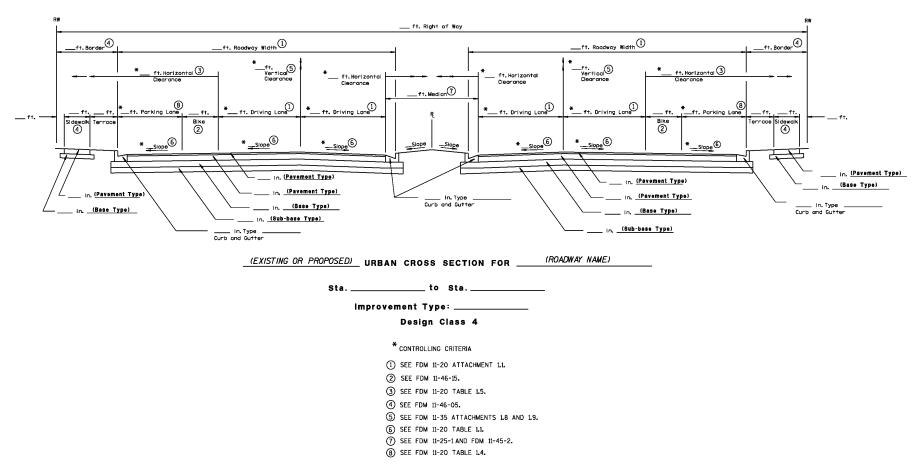
CORRESPO	ONDENCE/MEMORANDUM		State of Wisconsin
Date:	, 20		
To:			
	ctor, Bureau of Project Developmer		
Attn	: (Design Standards and Oversight	Chief)	
From:			
	Region		
Subject:	MODERNIZATION AND REHA	BILITATION DESIGN STUD	DY REPORT
	Project I.D. (design)		
	(STH, IH, USH (choose one)) _		
	Bridge # (if applicable)		
	County		
 Region Proj	ect Development Chief	 Date	
Concur:			
	roject Development dards and Oversight Chief	 Date	
_	nway Administration	 Date	
Unlet of Des	sign Services Section		

(For a working file of this template: FDM 11-4 A10.4 File 1)

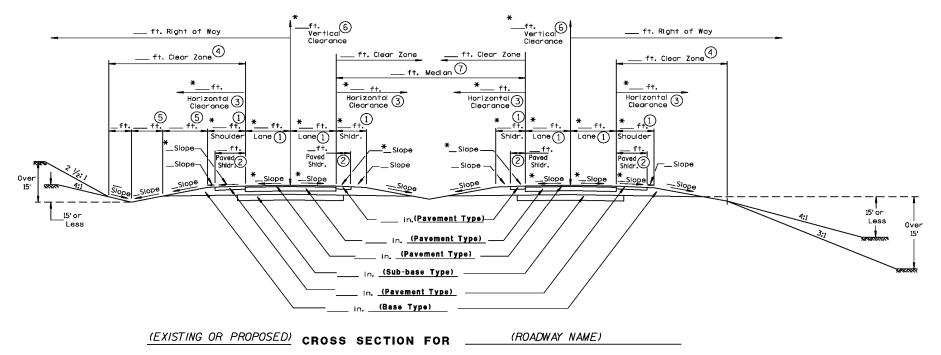
the attached design study

(For a working file of this template: FDM 11-4 A10.5 File 1)

CORRESPO	ONDENCE/MEMORANDUM			State of Wisconsin		
Date:	, 20xx					
To:	(Name)	WisDOT DTSD XX	<			
		Region, Local Program Project Manager				
From:	(Name)					
Subject:	DESIGN STUDY REPORT		AY SYSTEM			
	Project I.D. (design)					
	(CTH, Local (choose one))					
	Bridge # (if applicable)					
	Count	у				
	idered the economic and social with the goals of community pla					
study report		g, ne recenimena y	our comountenes	or the attached deergn		
Recommend	ded:					
Name			Date			
Local Public	Agency					
Are there an	y Design Justifications included ir	n this DSR? Yes	No 🗌			
Approved:						
Name, PE			Date			
WisDOT DT	SD XX Region, Local Program Pr	oject Manager				
Concur:						
Name, PE			Date			
WisDOT DT	SD RPD Design Standards and	Oversight Chief				



4-LANE URBAN DESIGN CLASS 4 WITH PARKING



** 6 AND 8 LANE SIMILAR

Sta.______to Sta._____ Improvement Type: _____

Design Class: A3

(1) SEE FDM 11-15 ATTACHMENTS 1.1 TO 1.4 AND 1.16 TO 1.18 AND FDM 11-40-2.

(2) SEE FDM 11-15 ATTACHMENT 1.5 AND FDM 11-40 TABLE 2.1.

(3) SEE FDM 11-15 TABLE 1.1.

* CONTROLLING CRITERIA

(4) SEE FDM 11-15 ATTACHMENT 1.9.

5 SEE FDM 11-15 ATTACHMENT 1.7.

(6) SEE FDM 11-35 ATTACHMENTS 1.8 AND 1.9.

(7) SEE FDM 11-15-1, MEDIAN SECTION AND FDM 11-45-1 MEDIAN BARRIER SECTION.

4-LANE RURAL CROSS SECTION** DESIGN CLASS A3