

**Design Services for cold milling and HMA overlay with shoulder widening, guardrail,  
drainage improvements in the City of Holland**

**REQ # 698 QA1**

**8/2/2011**

Question 1: Is there a scoping document available for this project?

**Answer 1: Yes, see attached Scoping Checklist. Information provided in the Scoping Checklist is obtained from field inspections and data available at the time of review, and may not be accurate or incomplete. Consultants shall only use this as a reference.**

# Statewide Scoping Package Master Checklist

## ROAD

Current Date:  
8/2/11

Total Project Cost:  
\$0

(Refer to Chapter 7 of the Scoping Manual for Details)

### I. Job and Scoping Package Information (Major Only - see page 2 for additional information)

Job Number:	105127	Control Section:	03035	PR Number:	784007
Route:	EB I-196	CS BMP:	0.000	PR BMP:	23.026
Structure ID:		CS EMP:	6.620	PR EMP:	29.646
Template:	R&R	Length:	6.620	Length:	6.620

Preliminary Engineering (PE) Cost:	Construction Cost:
Right-of-Way Cost:	Construction Engineering (CE) Cost: %

Current Year RSL:	6.96	Value	2008	Year	Construction Year RSL:	1.96	Prop Fix Life:	15	Yrs
					Sufficiency Rating:	1.5			

Location:	Eastbound Only, US-31 split north to the Allegan County line
Proposed Fix:	Multi course HMA overlay

Scoped By:	MLO	Date:	04-20-2009
TSC QC By:	JRS	Date:	04-07-2010
Region QA By:		Date:	

### II. Project Scoping Document Package

#### Details / Checklist

Item	Included in Package?	
Statewide Scoping Package Master Checklist - Road	<input checked="" type="checkbox"/>	Yes
Road Scoping Report & Details Worksheet	<input checked="" type="checkbox"/>	Yes
MPINS Project Concept Statement	<input checked="" type="checkbox"/>	Yes
Program Revision Request (Form 2604)	<input checked="" type="checkbox"/>	Yes
Culvert Scope Inspection Form (for applicable templates)	<input type="checkbox"/>	Yes <input checked="" type="checkbox"/> NA
Constructability Checklist	<input checked="" type="checkbox"/>	Yes

*By Template, if checkbox appears, item is required (unless otherwise noted).*

#### Engineer's Estimate

Item	R&R	T&S	CPM	Bridge	Other	NA
Trns*port (Itemized Estimate Report & Project Concept Estimate Report)	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
Hand Calculations & Assumptions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Estimates for Additional Options Analyzed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

#### Traffic

Preliminary MOT Concept	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mobility Analysis	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Traffic Analysis & Safety Review	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Geometric Summary Review (reviewed and/or addressed per the 3R/4R Guidelines)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### Proposed Pavement Recommendations

Soils Information and Recommendations (From Region Soils Engineer)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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#### General Items & Information

As-Builts / Old Plans	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Current Sufficiency Report	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
Condition Reports for Existing Sewers (if applicable)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Condition Reports for Existing Culverts (if applicable)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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		R&R	T&S	CPM	Bridge	Other	NA
Maintenance Log Sheets .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>					
Pavement Historical Database (PHD) Data .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>					
ROW Sheets with Impacts Highlighted .....	<input type="checkbox"/>						
<a href="http://mdotwas1.mdot.state.mi.us/public/ROWFiles/index.cfm">http://mdotwas1.mdot.state.mi.us/public/ROWFiles/index.cfm</a>							
Existing Utility Information .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>					
Field Review Notes .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>					
Supporting Photos .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>					
Previous Call For Projects Information .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>					
Correspondance .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>					
Adiitional Information Resulting from the Worksheet .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>					

### III. General Items and Background Information

- Has the project been added to Projectwise?**  Yes
- Is the project to be packaged with other projects?**  Yes  No

List potential package job numbers & templates	
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**Project Background, Comments, Van Tour Notes or Other Project Constraints. Please explain.**

**Additional CS, PR, Direction and Etc Information** (other than the major listed on page 1)

PR  
 783102 PRBMP 0.13 PREMP 0.371  
 798208 PRBMP 0.0 PREMP 0.363

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# ROAD SCOPING REPORT & DETAILS WORKSHEET

## IV. Existing Conditions (Typical)

### A. Existing Mainline:

Type: HMA  Concrete  Composite   
 Number of Lanes:  Lane Widths:  ft Posted Speed:  mph Design Speed:  mph

### Pavement Data (Average)

	Value	Year		Value	Year
RSL:	6.96	2008	RQI:	43.2	2008
DI:	24.84	2008	Rutting:	.05	2008
Surface Condition:	3.82	2008	Faulting:	NA	
PASER:	7.82	2008	Friction:	82	2008

### B. Existing Shoulder:

Type: HMA  Concrete  Composite  Aggregate (Only)

Widths:		Left Shoulder	Right Shoulder
Paved Width:	<input type="text" value="3"/>	ft	Paved Width: <input type="text" value="9"/> ft
Total Width:	<input type="text" value="8"/>	ft	Total Width: <input type="text" value="10"/> ft
Foreslope:	<input type="text" value="varies"/>	y on x	Foreslope: <input type="text" value="varies"/> y on x
Backslope:	<input type="text" value="varies"/>	y on x	Backslope: <input type="text" value="varies"/> y on x

### C. Existing Ramps:

Not Applicable?

Number of ramps in project limits:

Type: HMA  Concrete  Composite

Widths:		Left Shoulder	Ramp	Right Shoulder
Paved Width:	<input type="text" value="5"/>	ft	<input type="text" value="16"/> ft	Paved Width: <input type="text" value="7"/> ft
Total Width:	<input type="text" value="6"/>	ft		Total Width: <input type="text" value="8"/> ft

Accel/Decel Lanes Present?  Yes  No Length:  ft

Other notes on existing ramps:

### D. Existing Pavement Section:

#### Pavt Depths:

Mainline Pavement:	<input type="text" value="12"/>	in	Agg Base:	<input type="text" value="NA"/>	in	Subbase:	<input type="text" value="NA"/>	in
Shoulder Pavement:	<input type="text" value="4"/>	in	Agg Base:	<input type="text" value="NA"/>	in	Subbase:	<input type="text" value="NA"/>	in
Ramp Pavement (typ):	<input type="text" value="9"/>	in	Agg Base:	<input type="text" value="NA"/>	in	Subbase:	<input type="text" value="NA"/>	in

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**E. Existing Photos:** (If applicable per proposed scope)

Intersections	<input type="checkbox"/> Included	<input checked="" type="checkbox"/> NA	Bridge Approaches	<input type="checkbox"/> Included	<input checked="" type="checkbox"/> NA
Drives	<input type="checkbox"/> Included	<input checked="" type="checkbox"/> NA	Utilities	<input type="checkbox"/> Included	<input checked="" type="checkbox"/> NA
Guardrail	<input type="checkbox"/> Included	<input checked="" type="checkbox"/> NA	Ditches	<input type="checkbox"/> Included	<input checked="" type="checkbox"/> NA
Drainage Structures	<input type="checkbox"/> Included	<input checked="" type="checkbox"/> NA	Waterways	<input type="checkbox"/> Included	<input checked="" type="checkbox"/> NA
Culverts	<input type="checkbox"/> Included	<input checked="" type="checkbox"/> NA	Building Location Relative to ROW	<input type="checkbox"/> Included	<input checked="" type="checkbox"/> NA
Tree Lines	<input type="checkbox"/> Included	<input checked="" type="checkbox"/> NA	Signs	<input type="checkbox"/> Included	<input checked="" type="checkbox"/> NA
Sidewalks	<input type="checkbox"/> Included	<input checked="" type="checkbox"/> NA	ROW Fence	<input type="checkbox"/> Included	<input checked="" type="checkbox"/> NA
Bridges	<input type="checkbox"/> Included	<input checked="" type="checkbox"/> NA	Other	<input type="checkbox"/> Included	<input checked="" type="checkbox"/> NA
Bridge Railing	<input type="checkbox"/> Included	<input checked="" type="checkbox"/> NA			

**F. Existing Geometrics:**

ADT: 8600 vpd      Clear Zone:    Cut    varies ft      Fill varies ft

(Clear Zone info in RDM 7.01.11C <http://mdotwas1.mdot.state.mi.us/public/design/files/englishroadmanual/erdm07.pdf>)

Existing Normal Cross Slope?      Lanes    2 %      Shoulders    4 %

Existing Parabolic Crown?       Yes     No

Superelevations meet Standard?       Yes     No

Horizontal Curve(s) meet Standard?       Yes     No

Vertical Curve(s) meet Standard?       Yes     No

**Other notes on geometrics and/or existing super rates:**

**G. Existing Drainage:**

**1. Culvert Information**

Existing Culverts that require work? (If no, skip to next section)       Yes     No

If project has culverts 36 inches in diameter to 10 feet in width that require work, include Culvert Inspection Forms for each culvert (if applicable with project template, work type and scope).

Total Number of culverts that require work? \_\_\_\_\_ ea

Existing Box Culverts?       Yes     No      Max Size: \_\_\_\_\_ ft x ft      Condition: \_\_\_\_\_

If project has box culverts 10 feet or great in width, contact the Region Bridge Engineer for Culvert Inspection Forms (if applicable with project template, work type and scope).

If yes, does box culvert have barrier or guardrail protection?       Yes     No

Does box culvert protection meet current Standards?       Yes     No

List culverts requiring work below (one per line, ie: 3 - 12" - round - conc -end sections)

# of culverts	Ex Size	Shape	Ex Material	End Treatment	Feature Requiring Modification*	End Sections within Clear Zone?	
						<input type="checkbox"/> Yes	<input type="checkbox"/> No
						<input type="checkbox"/> Yes	<input type="checkbox"/> No
						<input type="checkbox"/> Yes	<input type="checkbox"/> No
						<input type="checkbox"/> Yes	<input type="checkbox"/> No
						<input type="checkbox"/> Yes	<input type="checkbox"/> No
						<input type="checkbox"/> Yes	<input type="checkbox"/> No
						<input type="checkbox"/> Yes	<input type="checkbox"/> No
						<input type="checkbox"/> Yes	<input type="checkbox"/> No
						<input type="checkbox"/> Yes	<input type="checkbox"/> No
						<input type="checkbox"/> Yes	<input type="checkbox"/> No

\*Features include: culvert, end sections, headwall, length, size and etc.



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Have the Culverts been extended in the past?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unknown
If yes, was the extension of like size/material?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	

## 2. Ditch Information

Existing Ditches? (If no, skip to next section)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
What is the condition of the existing ditch system?			
Is the ditch bottom deteriorating, eroding or shifting location?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Is there sediment buildup in the ditches?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Are the ditch slopes stable?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Is there evidence of water overtopping the ditch?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are there any obstructions downstream?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unknown
Any evidence or data showing downstream capacity may be inadequate?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Unknown
Is there Right-of-Way (or drainage easement) to an acceptable outlet? (if no, contact your supervisor for further action)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Unknown
Does the culvert align with the ditch?			
Vertically align?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Horizontally align?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	

## 3. Storm Sewer Information

Existing Storm Sewer? (If no, skip to next section)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
What material is the storm sewer?			
What is the approximate age of the sewer?			
	yrs		
Is there recent video inspection information available?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
What is the condition of the existing storm sewer?			
Cracking?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
Spalling?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
Corrosion?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
Are there any joint gaps or open seams?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
Is there exposed steel?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
Is there any sewer deformation or buckling?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
Any water or sediment seeping in through cracks in the sewer?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
Existing acceptable drainage outlets?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
If yes, name of water body outleting into:			

## Manhole/Inlet Information

What material are the structures?			
What is the average condition of the structures?			
Cracking?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
Spalling?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
Corrosion?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
Are there any joint gaps or open seams?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
Is there exposed steel?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
Any water or sediment seeping in through cracks in the structures?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
What is the average condition of the grates/covers?			
Will the grates/covers need to be adjusted?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown

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## 4. Channel Information (River, Stream, Creeks and Tributaries)

Existing River, Stream, Creek or Tributary? (If no, skip to next section)  Yes  No  
 Existing Federally Regulated Waterway (Navigable Waterway)?  Yes  No  
 ie: Includes the rivers, streams, creeks, tributaries and wetlands that are connected to navigable waterways and are contiguous to the Great Lakes. These segments are typically under the jurisdiction of the Army Corps of Engineers and the US Coast Guard.

Existing cold water trout stream?  Yes  No  
 Obstructions in the channel?  Yes  No  
 Are there stream side inlets?  Yes  No Condition:   
 Is there any sheet piling?  Yes  No Is it constricting the stream?  Yes  No

Check upstream and downstream culvert sizes compared to MDOT's culvert.  
 Upstream culvert is:  MDOT's Upstream Size:   
 Downstream culvert is:  MDOT's Downstream Size:

Channel bank stability:   
 Does the culvert align with the stream channel?  
 Vertically align?  Yes  No  
 Horizontally align?  Yes  No  
 Does the bridge/culvert span the existing channel?  Yes  No

## 5. General Existing Drainage Information

Existing Underdrains?  Yes  No Max Size:  in Type:   
 Existing Spillways?  Yes  No  
 Existing Detention Basins?  Yes  No Condition:   
 Existing Retention Basins?  Yes  No Condition:   
 Existing Pump Stations?  Yes  No  
 Existing County Drains?  Yes  No (If yes, list Sta and drain name in text box below.)  
 Flooding History?  Yes  No  
 Settlement areas near existing drainage features?  Yes  No  
 Are any of the existing drainage areas greater than 2 square miles?  Yes  No  Unknown

### Other general notes on existing drainage or drainage related issues:

Van Belt County Drain Sta 331+50  
 Rotman County Drain Sta 101+50

## H. Existing Guardrail or Median Barrier:

Existing Guardrail?  Yes  No Type:  Length:  ft Condition:   
 Existing Median Barrier?  Yes  No Type:  Length:  ft Condition:   
 Existing Glare Screen?  Yes  No Length:  ft Condition:   
 Existing Attenuators?  Yes  No Number:   
 Terminals Meet Current Standard?  Yes  No



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## I. Existing Utilities:

Existing Private Utilities?  Yes  No  
 Existing Public Utilities?  Yes  No  
 Existing Water Mains?  Yes  No Condition:

List Utility Type & Info	
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## J. Existing Signals:

Not Applicable?

Existing Signals?  Yes  No Existing Traffic Loops?  Yes  No  Unknown  
 Existing Flashers?  Yes  No Number of Intersections: \_\_\_\_\_  
 Existing Ped Signals?  Yes  No  
 Existing Ped Push Buttons?  Yes  No

## K. Existing Sidewalk:

Not Applicable?

Existing sidewalk?  Yes  No Width: \_\_\_\_\_ ft Length: \_\_\_\_\_ ft Condition: \_\_\_\_\_  
 Are there existing gaps with evidence of pedestrian activity?  Yes  No  
 Existing sidewalk ramps?  Yes  No Number of ramps: \_\_\_\_\_ Condition: \_\_\_\_\_  
 Are ramps ADA compliant?  Yes  No Number of non-compliant ramps: \_\_\_\_\_

## L. Existing General Conditions: (some items below will require photos - see manual)

Existing curb & gutter in the project limits? _____	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Type:	<span style="background-color: #cccccc; padding: 2px 20px;"></span>
Existing truss or cantilever signs? _____	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Number:	<span style="background-color: #cccccc; padding: 2px 20px;"></span>
Existing rumble strips? _____	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Location:	Edge
Existing Permanent Traffic Recorders (PTR)? _____	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Number:	<span style="background-color: #cccccc; padding: 2px 20px;"></span>
Existing maintenance crossovers? _____	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Number:	<span style="background-color: #cccccc; padding: 2px 20px;"></span>
Existing crossovers for indirect left turns? _____	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Number:	<span style="background-color: #cccccc; padding: 2px 20px;"></span>
Existing raised pavement markers? _____	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Existing right turn lanes? _____	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Number:	<span style="background-color: #cccccc; padding: 2px 20px;"></span>
Existing left turn lanes? _____	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Number:	<span style="background-color: #cccccc; padding: 2px 20px;"></span>
Existing trees or brush within Clear Zone? _____	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Existing encroachments within Clear Zone? _____	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Type:	<span style="background-color: #cccccc; padding: 2px 20px;"></span>
Existing ROW fence? _____	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Condition:	<span style="background-color: #cccccc; padding: 2px 20px;"></span>
Existing cemeteries? _____	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Existing railroad crossings? _____	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Type:	Grade Sep.
Existing freeway lighting? _____	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Existing ITS facilities? _____	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Existing non-motorized facilities? _____	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Existing erosion issues? _____	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Existing slope stability issues? _____	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Existing settlement areas? _____	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Existing maintenance issues/concerns? _____	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Existing roadside parks? _____	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Existing rest areas? _____	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Existing airport in the vicinity? _____	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Is this on a National Truck Network? _____	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

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## L. Existing General Conditions, continued:

Is this a Corridor of Significance? .....

Yes  No

Type:

National

Is there an Access Management Plan for the project area? .....

Yes  No

Is there an EA or EIS Study for the project area? .....

Yes  No

## M. Other General Notes on Existing Conditions:

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## V. Proposed Work (Typical)

Type: R&R - 3R

### A. Proposed Mainline:

Type: HMA  Concrete  Composite   
 Number of Lanes: 2 Lane Widths: 12 ft Design Speed: 75  
 Do the proposed widths result in any widening?  Yes  No

### Pavement Data (Average):

Construction Year RSL: 1.96 Prop Fix Life: 15 Yrs

### List all work type(s) and related fix life(s):

multi course HMA overlay. 15 years.

### B. Proposed Shoulders:

Type: HMA  Concrete  Composite  Aggregate (Only)   
**Widths:**

Left Shoulder	Right Shoulder
Paved Width: <span style="border: 1px solid black; padding: 2px;">4</span> ft	Paved Width: <span style="border: 1px solid black; padding: 2px;">12</span> ft
Total Width: <span style="border: 1px solid black; padding: 2px;">8</span> ft	Total Width: <span style="border: 1px solid black; padding: 2px;">12</span> ft
Foreslope: <span style="border: 1px solid black; padding: 2px;">varies</span> y on x	Foreslope: <span style="border: 1px solid black; padding: 2px;">varies</span> y on x
Backslope: <span style="border: 1px solid black; padding: 2px;">varies</span> y on x	Backslope: <span style="border: 1px solid black; padding: 2px;">varies</span> y on x

Do the proposed widths result in any widening?  Yes  No

### C. Proposed Ramps:

Not Applicable?

Number of ramps being improved: 0

Type: HMA  Concrete  Composite

**Widths:**

Left Shoulder	Ramp	Right Shoulder
Paved Width: <span style="border: 1px solid black; padding: 2px;"></span> ft	<span style="border: 1px solid black; padding: 2px;"></span> ft	Paved Width: <span style="border: 1px solid black; padding: 2px;"></span> ft
Total Width: <span style="border: 1px solid black; padding: 2px;"></span> ft		Total Width: <span style="border: 1px solid black; padding: 2px;"></span> ft
		Length: <span style="border: 1px solid black; padding: 2px;"></span> ft

Accel/Decel lanes need extensions or upgrades?  Yes  No  
 Do the proposed widths result in any widening?  Yes  No

### List ramps and proposed work:

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## D. Proposed Pavement Section:

### Pavt Depths:

Mainline Pavement:	7	in	Agg Base:		in	Subbase:		in
Shoulder Pavement:	5	in	Agg Base:		in	Subbase:		in
Ramp Pavement (typ):	5	in	Agg Base:		in	Subbase:		in

- Will the existing shoulders be left in place in the proposed project? (If yes, continue)  Yes  No
- Will the existing shoulder be used for Maintaining Traffic? (If yes, continue)  Yes  No
- Are existing shoulder cores available?  Yes  No
- Are shoulder cores for the existing shoulders needed?  Yes  No
- Is the existing shoulder density 92% or greater?  Yes  No  Need
- Is the existing shoulder density 90% or greater?  Yes  No  Need

## E. Proposed Geometric Corrections:

- Proposed Normal Section Cross Slope:** Lanes: 2 % Shoulders: 4 %
- Cross Slope Modification(s)?  Yes  No
- Horizontal Curve Modification(s)?  Yes  No
- Vertical Curve Modification(s)?  Yes  No
- Superelevation Modification(s)?  Yes  No

### Other notes on geometrics or existing super rates:

## F. Proposed Drainage:

### 1. Culvert Information

List proposed culvert work below to match existing pipe info previously entered in Section IV.G.1

# of culverts	Ex Size	Shape	Ex Material	Feature Requiring Work	Prop Work * (see below)

\* Work types = replace, extend, new end section, rehabilitation, lining, and/or new erosion control

- Proposed New Culverts?  Yes  No
- Proposed New Box Culverts?  Yes  No
- Do any existing or new box culverts require protection/safety work?  Yes  No

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## 2. Ditch Information

- Proposed New Ditches?  Yes  No
- Proposed Ditch Cleanout?  Yes  No
- Will any open drainage be enclosed with the project?  Yes  No  Unknown
- Do drive culverts need to be removed and replaced to new grade lines?  Yes  No  Unknown

**Summarize ditch modifications within project limits:**

## 3. Storm Sewer Information

- Proposed New Storm Sewer?  Yes  No
- Proposed Storm Sewer Replacement?  Yes  No Increase in Size?  Yes  No
- Proposed New Drainage Outlets?  Yes  No Name of water body outleting into:
- Is video inspection required during design to identify the pipe condition?  Yes  No

**Summarize storm sewer modifications within project limits:**

## 4. Stream Channel Information

- Proposed Stream Channel Relocation - Temporary?  Yes  No
- Proposed Stream Channel Relocation - Permanent?  Yes  No
- Other Proposed Stream Work?  Yes  No
- Proposed Impacts to Federally Regulated Waterway (Navigable Waterway)?  Yes  No
- Proposed Impacts to Cold Water Trout Streams?  Yes  No

**Summarize stream channel modifications within project limits:**

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## 5. General Proposed Drainage Information

Proposed Underdrains?  Yes  No    Type:     Size:  in  
 Proposed Spillways/Downspouts?  Yes  No  
 Road Grade Raise > 4"?  Yes  No  
 A road grade raise of greater than 4" will require an analysis as per the Road Design and the Drainage Manuals.

Impacts to County Drains?  Yes  No  
 Proposed Pump Stations?  Yes  No  
 Proposed Storage Basins?  Yes  No    Type:   
 Proposed Erosion Control Items?  Yes  No  
 Hydraulic Analysis required?  Yes  No

## G. Proposed Guardrail or Median Barrier:

Proposed Guardrail?  Yes  No    Type:     Length:  ft  
 Proposed Median Barrier?  Yes  No    Type:     Length:  ft  
 Proposed Glare Screen?  Yes  No    Length:  ft  
 Proposed Attenuators?  Yes  No    Type:     Number:

## H. Proposed Utilities:

Proposed New/Relocated Private Utilities?  Yes  No  
 Proposed New/Relocated Public Utilities?  Yes  No  
 Any cost participation of water main relocation proposed?  Yes  No

List New or Relocated Utility Info	
------------------------------------	--

## I. Proposed Signals:

Proposed Signals?  Yes  No    Number of Intersections:   
 Proposed Flashers?  Yes  No    Proposed Traffic Loops:  Yes  No  
 Proposed Ped Signals?  Yes  No  
 Proposed Ped Push Buttons?  Yes  No

## J. Proposed Sidewalk:

Proposed Sidewalk?  Yes  No    Width:  ft    Length:  ft  
 Proposed Sidewalk ADA amps?  Yes  No    Number of Ramps:

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## K. Proposed General Conditions:

- Proposed curb & gutter?  Yes  No
- Proposed truss or cantilever signs?  Yes  No
- Proposed rumble strips?  Yes  No
- Proposed Permanent Traffic Recorders (PTR)?  Yes  No
- Proposed or relocated maintenance crossovers?  Yes  No
- Proposed or relocated indirect left crossovers?  Yes  No
- Proposed right turn lanes?  Yes  No
- Proposed left turn lanes?  Yes  No
- Proposed new ROW fence?  Yes  No
- Proposed ROW fence replacement?  Yes  No
- Proposed Impacts to any cemeteries?  Yes  No
- Proposed railroad impacts?  Yes  No
- Proposed freeway lighting?  Yes  No
- Proposed ITS facilities?  Yes  No
- Proposed non-motorized facilities?  Yes  No
- Proposed erosion control items?  Yes  No
- Proposed slope stabilization work?  Yes  No
- Will a Phase I Site Assessment be needed?  Yes  No
- Proposed work at any existing roadside parks?  Yes  No
- Proposed new roadside parks?  Yes  No
- Proposed work at any existing rest areas?  Yes  No
- Proposed new rest areas?  Yes  No
- Any features from an existing Access Management Plan being incorporated into the proposed project?  Yes  No
- Is the proposed work consistent with an EA or EIS Study for the proposed project?  Yes  No

Number:  
Location:  
Number:  
Number:  
Number:  
Number:  
Number:

Edge

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## L. Other General Notes on Proposed Improvements:

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## VI. Bridge Underclearances (see Design Manual for Details)

Corridor Underclearance Requirements (14' 6" or 16'):	16'
Number of grade separated roadways or pedestrian facilities:	6
Number of structures that do not meet underclearance requirements:	0
Number of grade separated railroads:	2
Number of grade separated railroads that do not meet underclearance requirements (23'):	unknown

## VII. Anticipated Design Exception(s) (check all that apply)

Design Speed	<input type="checkbox"/>	Vertical Clearance	<input type="checkbox"/>
Lane Width	<input type="checkbox"/>	Vertical Alignment	<input type="checkbox"/>
Shoulder Width	<input type="checkbox"/>	Vertical (SSD)	<input type="checkbox"/>
Bridge Width	<input type="checkbox"/>	Grade	<input type="checkbox"/>
Structural Capacity	<input type="checkbox"/>	Cross Slope	<input type="checkbox"/>
Horizontal Clearance	<input type="checkbox"/>	Superelevation	<input type="checkbox"/>
Horizontal Alignment	<input type="checkbox"/>	Accel & Decel Lengths	<input type="checkbox"/>
Horizontal (sightline offset)	<input type="checkbox"/>		

## VIII. Permits & Agreements Required (check all that apply)

Statutory Participation (Act 51)	<input type="checkbox"/>	Parking Agreements	<input type="checkbox"/>
DEQ	<input type="checkbox"/>	Utility Relocation Agreements	<input type="checkbox"/>
Corp of Engineers	<input type="checkbox"/>	Non-motorized Maint. Agreements	<input type="checkbox"/>
County Drain (for review, not permitting)	<input type="checkbox"/>	Drainage Agreement	<input type="checkbox"/>
Variance (noise, other...)	<input type="checkbox"/>	Maintenance Agreements	<input type="checkbox"/>
NPDES (over 5 acres of exposed earth)	<input checked="" type="checkbox"/>	Participation (other)	<input type="checkbox"/>

## IX. Environmental Information

Wetland impacts?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Unknown	Approx Acreage:	
Floodplain impacts?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unknown	100 Yr Flood Elev:	
Known contamination sites (LUST, etc...)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unknown		
Known threatened or endangered species?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unknown		
Known archaeology?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unknown		
Known historic bridges or other structures?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unknown		
Clearing required?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Unknown		
Tree removals and/or replacements?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unknown		
River or stream impacts?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Unknown		
Impacts to local park facilities (4F, 6F)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unknown		
Impacts to US National Forest land?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unknown		

## X. Real Estate

ROW partial acquisitions?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unknown	Number:	
ROW full acquisitions?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unknown	Number:	
Property owner relocations?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unknown	Number:	
Grading permits?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unknown	Number:	
Drive permits?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unknown	Number:	
Sidewalk permits?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unknown	Number:	
Easements required?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unknown	Number:	
Billboard or sign impacts?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unknown	Number:	

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## XI. Stakeholder Information

### Proposed Activity Level of Stakeholder Engagement

- Level I       Yes     No
- Level II      Yes     No
- Level III     Yes     No
- Level IV     Yes     No
- Level V      Yes     No

## XII. Supplemental Information

- Is this project in an Metropolitan Planning Organization (MPO)?       Yes     No     Unknown
- Will a Value Engineering (VE) be required (cost > \$25 Million)?       Yes     No     Unknown
- Will there be FHWA Oversight on this project?       Yes     No     Unknown
- Will a Life Cycle Cost Analysis (LCCA) be required?       Yes     No     Unknown
- Are poor soils anticipated?       Yes     No     Unknown
- Is there soil boring information available?       Yes     No     Unknown
- Is there pavement coring information available?       Yes     No     Unknown
- Is there survey information available?       Yes     No     Unknown
- Will there be Multi-Modal or Modal Connectivity opportunities?       Yes     No     Unknown
- Have different alternatives been analyzed?       Yes     No     Unknown

## XIII. Site Visit Notes

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## XIV. Traffic and Mobility

### A. Maintenance of Traffic (MOT) Scheme:

**Closure Type:** Full Closure:  Part width Construction:  Lane Closure:   
 Shoulder Closure:

**Traffic Routing:** On existing Route:  Directional Detour Route:  Flag Control:   
 Full Detour Route:  Signed Alternate Route:

Will detour route utilize local roadways?  Yes  No  Unknown  
 If yes, will local approval of the detour route be attainable?  Yes  No  
 Will detour route require improvements?  Yes  No  
 Will project require pedestrian detours?  Yes  No  Unknown  
 Traffic Restrictions?  Yes  No

Please list any known traffic restrictions (including detour route)

Please give a brief description of MOT plan (including detour route)

single lane closure.

### B. Safety Items:

		R&R	T&S	CPM	Bridge	Other
Accident History (Information from One Line Listing)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Safety Review/Crash Analysis		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Geometric Sketch		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TOR Package		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
a. TOR Calculation Spreadsheet						
b. UD-10s; only for miss codings or additional crashes						
Has this proposed project been identified on the High Crash List?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	_____ Year				
Has this project been identified on the FHWA 5% Report?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Unknown					

### C. Mobility: (see Mobility Manual)

Existing Capacity Analysis (includes V/C calc, travel time, LOS, etc)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proposed Capacity Analysis (includes V/C calc, Delay Worksheet, LOS, etc)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Preliminary Transportation Management Plan (TMP) (if applicable)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### Delay Mitigation Measures:

Temporary Widening	<input type="checkbox"/>	Dynamic Lane Merge System	<input type="checkbox"/>
Temporary Crossovers	<input type="checkbox"/>	Moveable Temp Barrier	<input type="checkbox"/>
Temporary Signal	<input type="checkbox"/>	Incentive/ Disincentive	<input type="checkbox"/>
Flag Control	<input type="checkbox"/>	Lane Rental	<input type="checkbox"/>
Mobile Closure	<input type="checkbox"/>	A + B	<input type="checkbox"/>
Night or Weekend Work	<input type="checkbox"/>		

#### Other Delay Mitigation Notes:

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**XV. Concept Statement Info** (check all that apply)

- |  |   |
|--|---|
| <input type="checkbox"/> Adjacent Jobs<br><input type="checkbox"/> Bridge Painting<br><input type="checkbox"/> Contaminated Site in Area<br><input type="checkbox"/> Crosses Farmland<br><input type="checkbox"/> Crosses Streams/Lakes/Drains<br><input type="checkbox"/> Detour or Road/Ramp Closure<br><input type="checkbox"/> Engineering Survey Required<br><input type="checkbox"/> Environmental Issues<br><input type="checkbox"/> Heritage Route<br><input type="checkbox"/> High Tourist Route<br><input type="checkbox"/> Natural/Federal Landmarks<br><input type="checkbox"/> Other Environmental Issues<br><input type="checkbox"/> Over 5 Acres Earth Disturbance<br><input type="checkbox"/> Reduced Traffic Flow<br><input type="checkbox"/> ROW/Grading Permit on Recreational Property<br><input type="checkbox"/> ROW/Grading Permit on Farmland<br><input type="checkbox"/> Tree Removals<br><input type="checkbox"/> Work Outside of Existing Shldr/Curbs | <input type="checkbox"/> Agency Permit Required<br><input type="checkbox"/> Change in Bus Access/Parking<br><input type="checkbox"/> Controversial<br><input type="checkbox"/> Crosses Floodplains<br><input type="checkbox"/> Crosses Wetlands<br><input type="checkbox"/> Displacements of Residences/Businesses<br><input type="checkbox"/> Enhancement Job<br><input type="checkbox"/> Hazardous Materials<br><input type="checkbox"/> High Impact Project<br><input type="checkbox"/> Historic Bridge<br><input type="checkbox"/> Other <span style="background-color: #cccccc; display: inline-block; width: 150px; height: 1em; vertical-align: middle;"></span><br><input type="checkbox"/> Over 1 Acre Earth Disturbance<br><input type="checkbox"/> Public Controversy<br><input type="checkbox"/> Rip Rap Required<br><input type="checkbox"/> ROW/Grading Permit Needed<br><input type="checkbox"/> Traffic Generators<br><input type="checkbox"/> Widening of Road or Bridge<br><input type="checkbox"/> Work Outside Toe of Slope |
|--|---|

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