

PAVEMENT HISTORICAL DATABASE (PHD)

REFRESHER TRAINING



November 2025

Training Presentation

- ☐ 10:00 am **to** 11:15 am
- ☐ Presentation Slides

Break

- ☐ 11:15 am **to** 11:25 am

Demonstration

- ☐ 11:25 am **to** 12:00 pm

Certificate of Attendance

- ☐ This week

PURPOSE

- ☐ Explain PHD use and its importance
- ☐ Brief refresher on entering PHD data
- ☐ Review recent enhancement and changes
- ☐ Answer Questions

OUTLINE

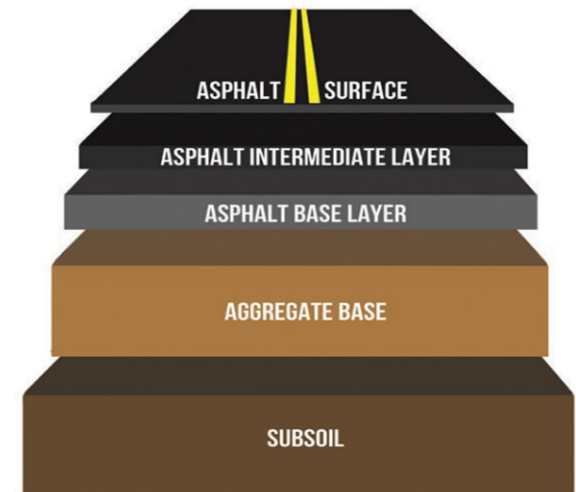
- 1 – Background
- 2 – PHD Uses and Applications
- 3 – General Information
- 4 – Data Entry Process – Overview
- 5 – PHD Enhancements/Changes
- 6 – FAQ / Business Rules
- 7 – PHD Data Review & QA
- 8 – Data Export & Reports
- 9 – Resources
- 10 – Appendix: Data Entry Process



BACKGROUND

PAVEMENT HISTORICAL DATABASE (PHD)

- ❑ MILogin application
- ❑ Centralized electronic data warehouse
- ❑ Primarily tracks “As Built” **pavement cross-section, materials, and repair work** on **MDOT** roadways
- ❑ Data can be searched, sorted, and exported





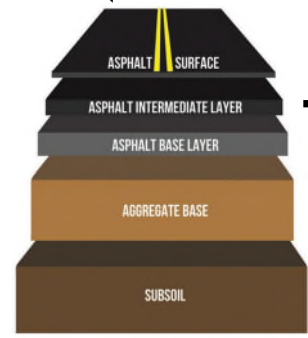
Segment 1

Segment 2



Lanes/Shoulder, C & G Details

(Surface Type, Lane/Shoulder #, Type, and Width, etc.)



Layers / Repair Work

Job Details

(Job ID, WTC, Fix Life, etc.)

Job Details	
JobNet Job ID	: 208494
Work Type Code	: 443 - One Course Asphalt Overlay
Fix Life	: 10 Year(s)
Open to Traffic Date	: 07/31/2023 [mm/dd/yyyy]

Segment Details

(PR# & MPs)

PR Segment List							
	#	PR Number	PR(v)	BMP	EMP	Route	Direction
<input checked="" type="radio"/>	1	337310	25	10.3	10.656	I-96	WB
<input type="radio"/>	2	337310	25	10.656	10.763	I-96	WB
<input type="radio"/>	3	337310	25	10.763	11.3	I-96	WB

Lane Details [Lane #2.0]	
* Surface Type (pavement cross-section)	: HMA over existing HMA
* Width	: 12 ft
* Lane Type	: Mainline
* Year [Paved/Placed]	: 2023 [yyyy]

Lane Section [Lane # 2.0]	
#	Layer Name
2	HMA Top Course
1	Cold Milling

Layer Attributes

(Mix Type, thickness, Material Source, Aggregate Source, etc.)

Pavement Attributes - HMA Top Course	
* Mix Type	: SEMI
* Mix Design No (Case Sensitive)	: 23MD133
* Application Rate	: 165 #/syd
* Asphalt Binder	: PG 64-28
* Asphalt Binder Cert. Supplier	: BP, Bay City, MI



PHD DATA: USES AND APPLICATIONS

HIGHWAY PERFORMANCE MONITORING SYSTEM (HPMS)

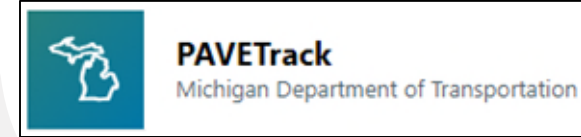


- ❑ HPMS is the official federal government source of data on the extent, condition, performance, use, and operating characteristics of the nation's highways
 - A federal report **required annually** for apportioning Federal-aid highway funds.
 - Includes pavement related data such as **surface type, total thickness, last overlay thickness, base type & thickness, year of last construction**, etc.

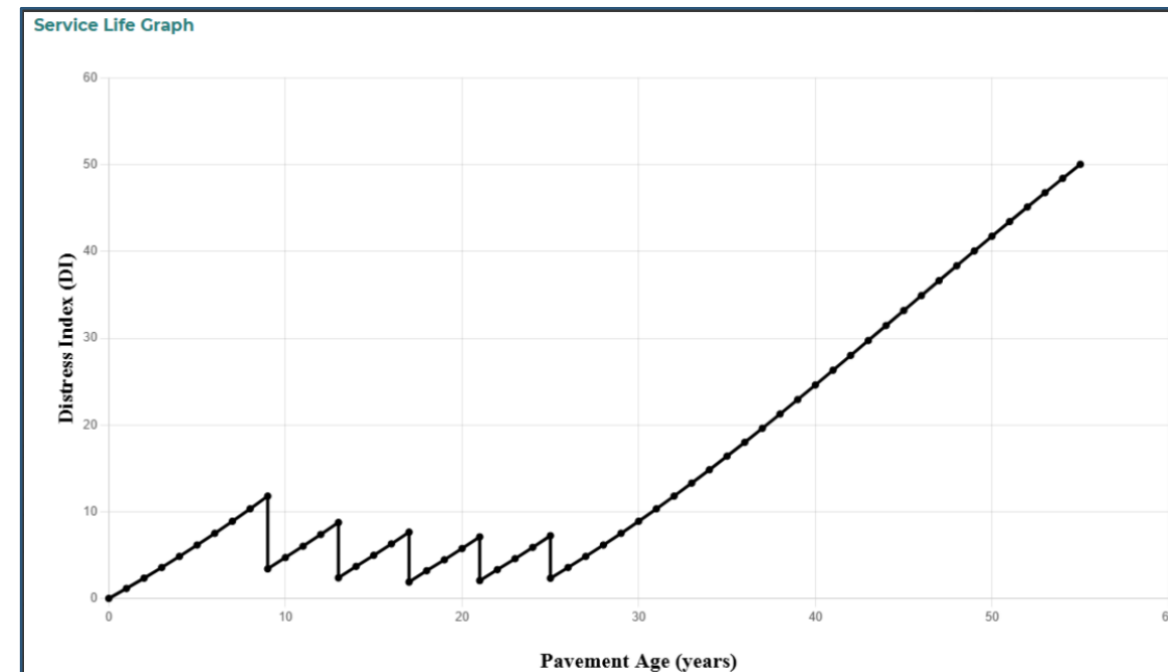
- ❑ PHD is a data source for the **HPMS report** for **State of Michigan**.

	PR#	PR BMP	PR EMP	NUMBER OF LANES	SURFACE TYPE	RIGID PAVEMENT THICKNESS	FLEXIBLE PAVEMENT THICKNESS	BASE THICKNESS	LANE WIDTH	SHOULDER SURFACE TYPE	RIGHT SHOULDER WIDTH	LEFT SHOULDER WIDTH	MEDIAN TYPE	MEDIAN WIDTH
1														
2	505	0	0.055	1	JRCP	9		16	16	Existing HMA Shoulder	10	5	None	0
3	505	0.055	0.069	2	JRCP	9		16	16	Existing HMA Shoulder	10	5	None	0
4	505	0.069	0.207	1	JRCP	9		16	16	Existing HMA Shoulder	10	5	None	0
5	21202	0.073	0.107	3	HMA Overlay over Existing JPCP		1.5		12	Existing HMA Shoulder	10	4	Unprotected	36
6	21202	0.107	0.298	2	HMA Overlay over Existing JPCP		1.5		12	Existing HMA Shoulder	10	4	Unprotected	36
7	21202	0.298	0.312	3	HMA Overlay over Existing JPCP		1.5		12	Existing HMA Shoulder	10	4	Unprotected	36
8	21202	0.312	0.394	4	HMA Overlay over Existing JPCP		1.5		12	Existing HMA Shoulder	5	6	Curbed	5
9	21202	0.394	1.491	2	HMA Overlay over Existing JPCP		1.5		12	Existing HMA Shoulder	10	4	Unprotected	36
10	21202	1.491	1.546	3	HMA Overlay over Existing JPCP		1.5		12	Existing HMA Shoulder	10	4	Unprotected	36
11	21202	1.546	1.601	4	HMA Overlay over Existing JPCP		1.5		12	Existing HMA Shoulder	10	4	Unprotected	36
12	21202	1.601	1.741	2	HMA Overlay over Existing JPCP		1.5		12	Existing HMA Shoulder	10	4	Unprotected	36

PAVEMENT ANALYSIS, VALUATION, EVALUATION, AND TRACKING (PAVETrack)



- ❑ PAVETrack monitors, analyzes, and reports on the historical performance of MDOT pavements
 - Part of the MDOT's **Pavement Performance Monitoring process** and MDOT's **Life-Cycle Cost Analysis (LCCA) process**
- ❑ PHD is a data source of **Recon/Rehab** and **CPM project segments** in PAVETrack

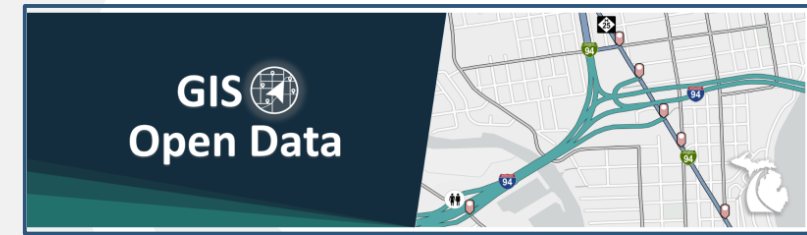


PAVEMENT MANAGEMENT PROCESS PLAN (PaveMaPP)

- ❑ PaveMaPP is the source of pavement condition data for the Michigan Trunkline Highway System, and the source of **Remaining Service Life (RSL)** estimates.
- ❑ PHD is PaveMaPP's source of **Pavement Surface Type coding**
- ❑ PHD is PaveMaPP's source of **non-let jobs' location, timing, work type, and Fix Life** attributes

LATEST PROJECT WORK TYPE DESCRIPTION	LATEST PROJECT TYPE	2021 PHD PAVEMENT TYPE	LATEST AVG HPMS CRACKING PERCENT YEAR	LATEST AVG HPMS CRACKING PERCENT	LATEST AVG HPMS CRACKING PERCENT G/F/P	LATEST AVG HPMS IRI YEAR	LATEST AVG HPMS IRI (in./mile)	LATEST AVG HPMS IRI G/F/P
Single Course Chip S CPM	CPM	Flexible	2022	3	Good	2022	83	Good
Single Course Chip S CPM	CPM	Flexible	2022	1	Good	2022	66	Good
Cold Milling & Bitumin CPM	CPM	Flexible	2021	0	Good	2021	27	Good
Cold Milling & Bitumin CPM	CPM	Flexible	2021	0	Good	2021	26	Good
Bituminous Reconstru R&R	R&R	Composite	2019	20	Fair	2019	142	Fair
Single Course Chip S CPM	CPM	Flexible	2021	41	Poor	2021	75	Good
Cold Milling & Bitumin CPM	CPM	Composite	2021	0	Good	2021	29	Good
Single Course Chip S CPM	CPM	Composite	2021	3	Good	2021	60	Good
Single Course Chip S CPM	CPM	Composite	2021	0	Good	2021	49	Good
Bituminous Resurfacing R&R	R&R	Rigid	2021	0	Good	2021	51	Good
Reconst Exist, No Wide R&R		Rigid	2019	73	Poor	2019	198	Poor

ROADS & HIGHWAYS (R&H) / GIS DATABASE



- ❑ R&H is MDOT's official linear referencing system for the state trunkline network
 - Supports integration of geospatial data across business areas for consistent mapping and analysis

- ❑ PHD provides certain pavement information such as **pavement surface type, layer thickness, lane width, shoulder surface type & width**, etc.

MATERIALS AND WORK TYPE TREND ANALYSIS

- ❑ PHD can be used in researching individual state routes, specific pavement work type (reconstruction, overlays, pavement repairs, etc.), as well as performing materials trend analysis.
- ❑ Examples:
 - Provide **lane miles of Crack Seal or Chip Seal** within certain years at a certain location (Region, TSC, or County).
 - Track **paved lane and shoulder widths** for a particular Region, TSC, or County.
 - Track the use of certain **asphalt binders (PG grade and source), emulsions, and/or aggregates** within a Region, TSC, or route.

GENERAL INFORMATION

PHD USER ROLES (ACCESS LEVEL)

Support and maintain PHD function, assign user rights, and provide aid to PHD users

PHD Administrator



Read Only user

Search and Export Data

Data Entry user

Enter Data into PHD

Data Owner user

Review & Finalize Data in PHD

PHD WORKFLOW

Data Entry User

- Gather construction records and assemble information
- Enter data into PHD
- Send PHD job to Data Owner for Review/QA

Data Owner User

- Review the job for errors/omissions
- Finalize if no errors/omissions (job is sent to PHD database)
- IF errors/omissions:
 - Make corrections, or
 - Send back to the Data Entry User for corrections, then resubmitted to Data Owner for Review and Finalization

Read Only user

- Search and Export PHD Data

Enter Data
into PHD

Review Data
in PHD

Finalize Data
in PHD

Access PHD
Data

DATA ENTRY TIMELINE

- **Collect:** during or after construction
- **Enter:** during construction & complete entry after job complete
- **Due date** is **January 31st, 2026** for projects completed in **2025**
- Exceptions – projects built over **multiple years**
 - Complete entry of multi-year projects when project is **finished**
 - Users are encouraged to **enter** the first-year data **(as Draft)**

WHAT IS ENTERED?

- ❑ All projects with **pavement work** on MDOT trunkline for mainline, ramps, shoulders, or curb & gutter (≥ 0.1 mile) is **required**
 - **Let jobs:** Programed jobs in the JobNet application (Planning Database)
Has an MDOT Job Number (JN) – such as 208782A
 - **Non-let jobs:** Maintenance projects, Transportation Work Authorizations (TWA), Direct Forces Work
Mostly without MDOT Job Number – Need to create a Job ID in PHD
 - **Pavement work:** HMA/Conc. layers, CPM, repair work (joint sealing, Detail 7's & 8's, etc.)
- ❑ Projects < 0.1 mile are **optional**
- ❑ **No** local roads and **no** projects without pavement work such as bridge work, pavement markings, etc.



DATA ENTRY PROCESS – *OVERVIEW*

PHD DATA ENTRY PROCESS

❑ **Create** the job in PHD (by Data Entry or Data Owner user)

Post Constr. Data | Create New

» Create (highlighted)

» Modify

» Review

» Reassign

» Layers Library

+ Reports & Searches

+ Administration

* = Required Fields

Enter Job Information

* Is JobNet Job : ☒ Yes ☐ No

* JobNet Job ID : 208759

Next Step Cancel

❑ **Modify** the job
(start the data entry process)

Post Constr. Data | Modify List

Role[s] :: Data Owner , System Administrator

Search Filter [Hide] ▼

Job Type : ☐ JobNet Job ☐ Non JobNet Job ☒ Both

Work Type : Any ▼

JobNet Job ID ▲	Non JobNet Job ID	Non JobNet Job Type	Work Type
109854	—	—	110—Non-Freeway Sign Replacement
124046	—	—	120—Intersection Improvements
208494	—	—	443—One Course Asphalt Overlay
208759	—	—	408—Milling & One Course Asphalt Overlay
208813	—	—	684—Milling and Two Course Asphalt Resurfacing

❑ **Submit for Review**
(by Data Entry user)

Project Comments
[max 250 characters]

Back Submit Job for Review (highlighted) Save Job as Draft Cancel Project Summary

❑ **Review & Finalize** the job
(by Data Owner user)

Post Constr. Data | Modify List

Role[s] :: Data Owner , System Administrator

Search Filter [Hide] ▼

Job Type : ☐ JobNet Job ☐ Non JobNet Job ☒ Both

Work Type : Any ▼

JobNet Job ID ▲	Non JobNet Job ID	Non JobNet Job Type	Work Type
109854	—	—	110—Non-Freeway Sign Replacement
124046	—	—	120—Intersection Improvements
208494	—	—	443—One Course Asphalt Overlay
208759	—	—	408—Milling & One Course Asphalt Overlay
208813	—	—	684—Milling and Two Course Asphalt Resurfacing

PHD DATA ENTRY PROCESS

- ❑ In the **Demonstration Section**, we will highlight recent changes in PHD interface
- ❑ The Appendix (slides **76 – 133**) summarizes the Data Entry Process
 - **Create Jobs**
 - **Modify Jobs**
 - **Segments**: create, modify, and delete segments, copy segment details, change segment MPs, etc.
 - **Segment Details**: create and modify Lanes, Shoulders, and Curb & Gutter
 - **Lane/Shoulder Details**: add layers and their attributes
 - **Median**: enter median information
 - **Other functions**:
 - Project and Segment Comment Boxes
 - View MAP function
 - Layers Library
 - Using copy functions (copy segment, copy lane, copy layers, etc.)
 - **Submit for Review / Finalize Jobs**

DATA HIERARCHY IN PHD



Segment 1

Segment 2



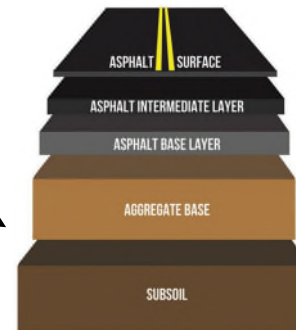
Pavement Job (i.e., Job ID, Work Type Code, etc.)



Segments (i.e., PR from MP to MP)



Lanes/Shoulder, Curb & Gutter, Median

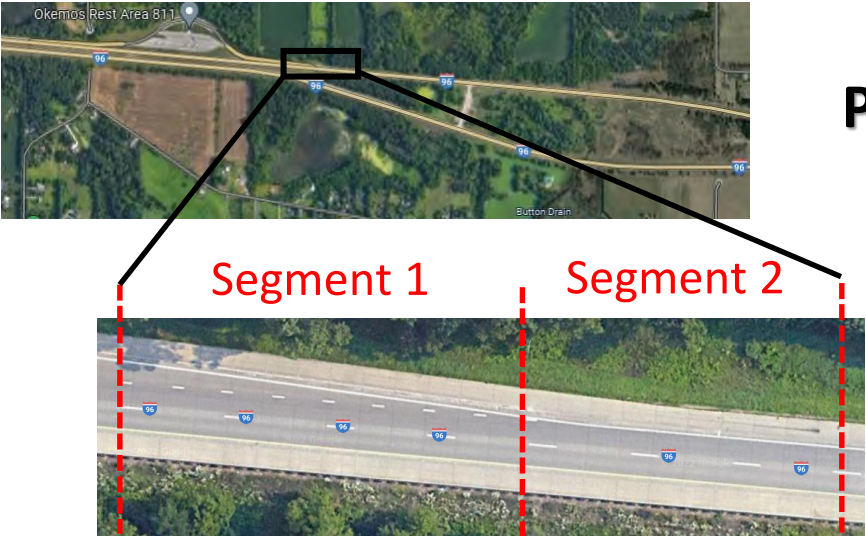


Layers



Attributes

DATA HIERARCHY IN PHD



Pavement Job (i.e., Job ID, Work Type Code, etc.)

Segments (i.e., PR from BMP to EMP) ←

PR Segment List							
	#	PR Number	PR(v)	BMP	EMP	Route	Direction
<input checked="" type="radio"/>	1	337310	25	10.3	10.656	I-96	WB
<input type="radio"/>	2	337310	25	10.656	10.763	I-96	WB
<input type="radio"/>	3	337310	25	10.763	11.3	I-96	WB

SEGMENTS IN PHD

❑ Roadway locations are entered into PHD using:

- PR Number (Route ID)
- PR milepoints

❑ Use [MDOT PRFinder](#)

Control Section (CR)

Identify	Results
CS-MP ✕	
CS LRM Key: 1101701	
From Measure: 6.3990828	
To Measure: 6.6178475	
Total Length: 0.2187647	
Longitude (X):	
Latitude (Y):	
View Date: 10/12/2025, 2:21 PM	
Highlight Result	

Identify

Results

by Route

by Point

by CSV

Network Layer: PR-MP

Route ID: 1362105

From Measure: 2.0150000

To Measure (optional): 2.4770000

Locate

Clear

View Date: Now

October 12, 2025

State Roads (Trunkline)

Freeway

Ramps & Facilities

All Other Trunkline

Local Roads & Other Networks

Main Roads

Minor Roads

Non-Certified Roads

Rail

Trail

Data Update In Progress

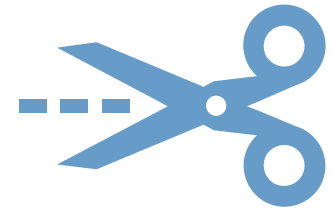
SEGMENTATION

❑ **New segments** or **sub segments** are required — changes ≥ 0.10 mile

❑ Changes in:

- PR number
- Lane(s) details (number of lanes or lane width)
- Pavement cross-section (layer or material changes)
- Shoulder, Curb & Gutter (new construction or change in existing)
- Years of construction (multi-year projects)
- Median details (only when significant - type or major width change)

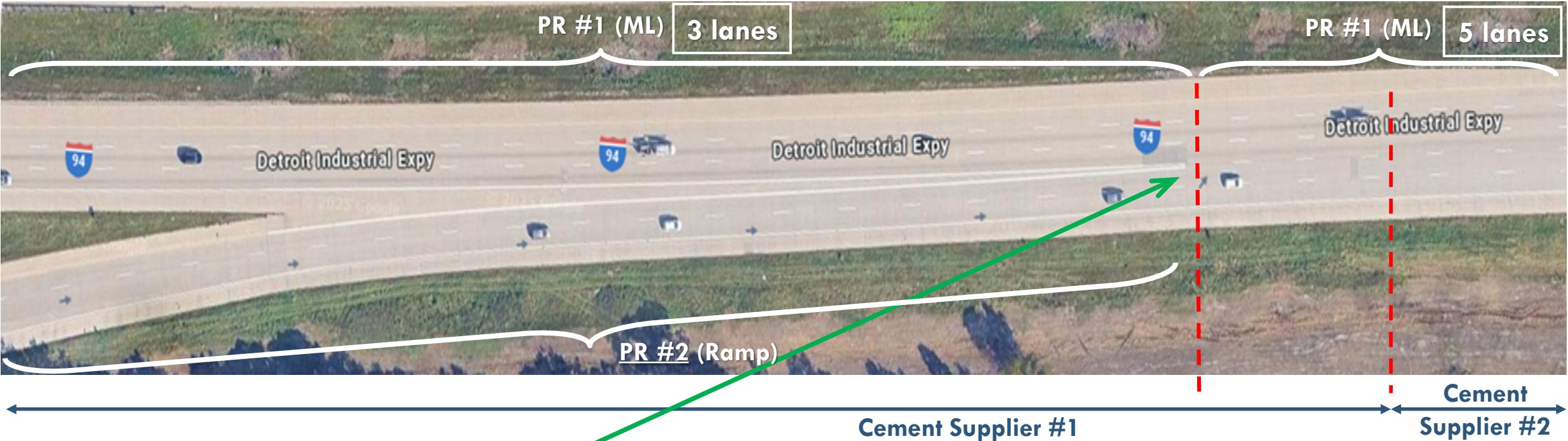
Primary reasons for segmentation in PHD
Usually automatically generated (imported from JobNet)



❑ Changes < 0.1 mile can be entered as a **new subsegment** or can be entered/combined with the **adjacent segment** at the user's discretion

- **Exception:** Segments involving additional lanes (turn lanes, for example)
 - Should be entered as new or subsegments

SEGMENTATION EXAMPLE



Ramp segmentation begins/ends at the 2' gore point

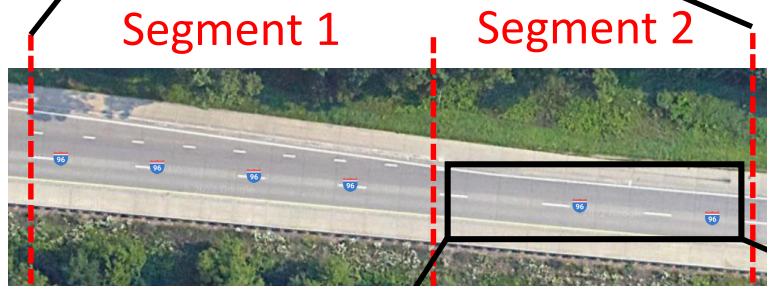
- Segment (1) – PR#1: 14.940-15.131 / 3 lanes (ML) (Cement supplier #1)
- Segment (2) – PR#1: 15.131-15.200 / 5 lanes (ML) (Cement supplier #1)
- Segment (3) – PR#1: 15.200-16.458 / 5 lanes (ML) (Cement supplier #2)
- Segment (4) – PR#2: 0-0.373 / 2 lanes (Ramp)

PR Segment List [Hide] ▼							
#	PR Number	PR(v)	BMP	EMP	Route	Direction	Framework Status
1	1576405	24	14.94	15.131	I-94	EB	Active
2	1576405	24	15.131	15.2	I-94	EB	Active
3	1576405	24	15.2	16.458	I-94	EB	Active
4	1576808	24	0	0.373	Telegraph/E I 94 RAMP		Active

DATA HIERARCHY IN PHD



Pavement Job (i.e., Job ID, Work Type Code, etc.)



Segments (i.e., PR from MP to MP)



Lanes/Shoulder, Curb & Gutter, Median



LANE NUMBERING

- ❑ Lanes are always numbered **right to left** facing toward increasing milepoints in the PR segment (no matter the traffic direction)
- ❑ Lane 1 is the **right-most through lane** of the PR segment
- ❑ Increasing lane numbers 2, 3, etc. are lanes **left** of Lane 1
 - *Examples: passing lane, center turn lane*
- ❑ Decreasing lane numbers 0, -1, and less are lanes **right** of Lane 1
 - *Examples: ramp lane, passing flare, right turn lane*
- ❑ The begin/end taper point is the start/end of the lane

Important because automated segmentation of lanes doesn't always identify numbering correctly

LANE NUMBERING (EXAMPLE)

Divided Roadway

Separate PR# for EB vs WB / NB vs SB

PR # MP INCREASING →



Lane #
2.0
1.0

Lane #
3.0
2.0
1.0

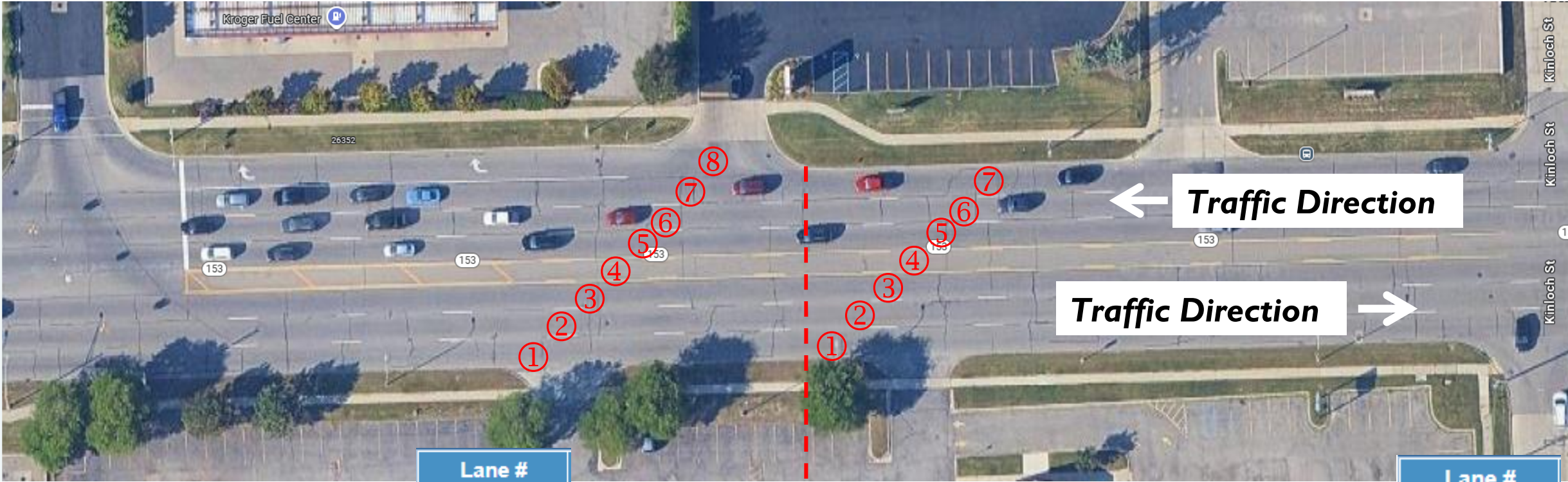
Lane #
3.0
2.0
1.0
0.0
-1.0

LANE NUMBERING (EXAMPLE)

Undivided Roadway

Same PR# for EB & WB / NB & SB

PR # MP INCREASING →



❑ Segment (1) – **8 lanes**
(w right-turn lane)

Lane #
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0

❑ Segment (2) – **7 lanes**

Lane #
7.0
6.0
5.0
4.0
3.0
2.0
1.0



DATA HIERARCHY IN PHD



Pavement Job (i.e., Job ID, Work Type Code, etc.)



Segments (i.e., PR from MP to MP)

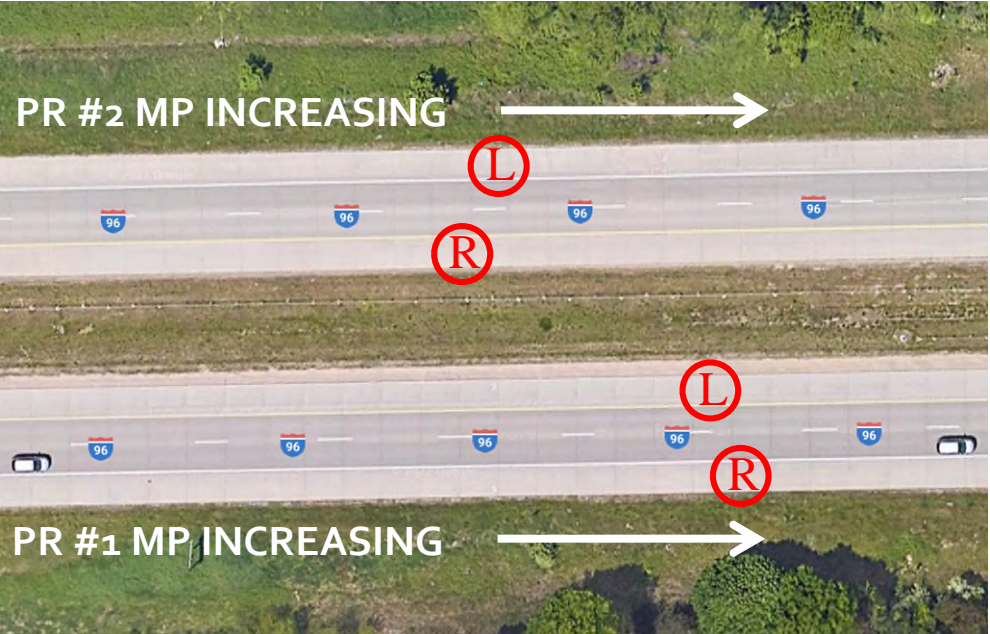


Lanes/Shoulder, Curb & Gutter, Median



SHOULDER, CURB & GUTTER DIRECTIONS

- ❑ The shoulder/C&G sides are established using the direction of **increasing PR milepoints**
- ❑ Numbered **right to left** facing toward increasing milepoints



← *Traffic Direction*

Traffic Direction →

Left Side	Right Side
Shoulder Details [Job # - 124046 / PR # - 124587/ MP :0 ... 2]	
* Work Done	: <input checked="" type="radio"/> Yes <input type="radio"/> No
* Has Corrugations(Rumble Strip)	: <input type="radio"/> Yes <input type="radio"/> No
* Is Parking Lane	: <input type="radio"/> Yes <input type="radio"/> No
* Paved Width	: <input type="text" value="3"/> Feet
* Total Width	: <input type="text" value="5"/> Feet
* Shoulder Surface Type (pavement cross-section)	: <input type="text" value="HMA full depth"/>

DATA HIERARCHY IN PHD



Pavement Job (i.e., Job ID, Work Type Code, etc.)



Segments (i.e., PR from MP to MP)



Lanes/Shoulder, Curb & Gutter, Median



MEDIAN INFORMATION

❑ Median Types:

- Undivided
- Concrete Barrier
- Guardrail
- Cable Guardrail
- Raised Island with Curb
- Thick, impenetrable Vegetation
- Graded with ditch
- Flat (paved and unpaved)
- N/A (i.e., ramps)
- Other – *input a unique type in a text box*

Median Overview	
* Median Type :	Guardrail ▼
* Median Width :	12 ft

❑ Median Width:

- Average or predominant width including inner shoulders, measured between the inside edges of the leftmost through lanes in both directions, to nearest foot.
- Change if there is a new consistent width.



DATA HIERARCHY IN PHD



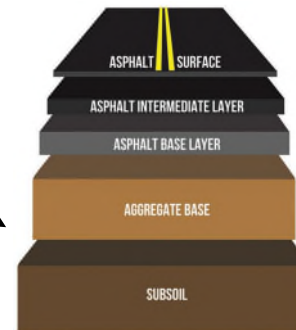
Pavement Job (i.e., Job ID, Work Type Code, etc.)



Segments (i.e., PR from MP to MP)



Lanes/Shoulder, Curb & Gutter, Median



Layers

have

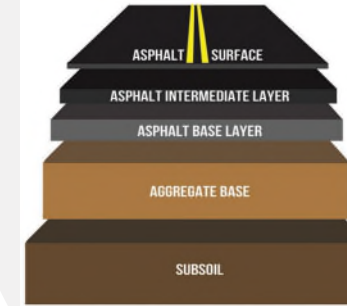
Attributes

LAYERS AND ATTRIBUTES

❑ A layer is a single thickness of a paved/placed **material** or **repair work**

- **Paved/placed material:** HMA layer(s), Concrete pavement, Base/Subbase layers, chip seal, etc.
- **Repair work:** asphalt joint/crack repair, HMA cold milling, Overband Crackfill, concrete pavement repairs (Detail 7's & 8's), etc.

❑ A comprehensive list of all layers and their associated attributes is available in the **“PHD Data Spreadsheet”** and **“PHD Attribute Locations”** documents, on the MDOT PHD website.



Select a Layer [Job # - 124046 / PR # - 1590804/ MP :0 ... 0.03]

Layer : HMA Crack Treatment ▼

Consists of both crack sealing and crack filling. Crack sealing is attained by the Saw/Rout and Seal Method. Crack filling is attained by the Overband Crack Fill Method. The purpose of sealing and filling cracks is to reduce the amount of water and incompressibles entering the pavement structure.

Locate layer attributes using the following construction-related documents:

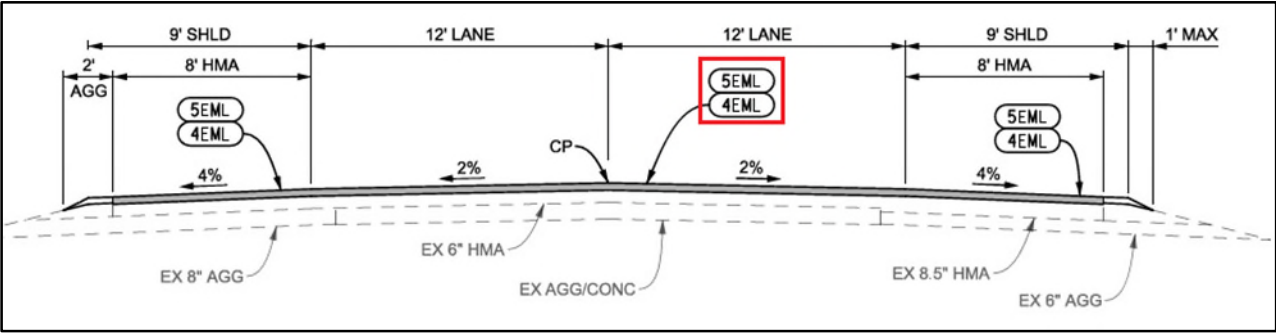
- For Cut and seal method, use on-site verification.
- For HMA Crack Seal Product/Supplier, use Material Cert/Cert of Compliance/Cert of Analysis, Special Provision (12SP-914B-01), or Material Source List (Form 0501).
- For Overband usage/Product, use Inspector's Daily Reports (IDRs) (Form 1122B), Material Cert/Cert of Compliance/Cert of Analysis, or Material Source List (Form 0501).

Pavement Attributes - HMA Crack Treatment

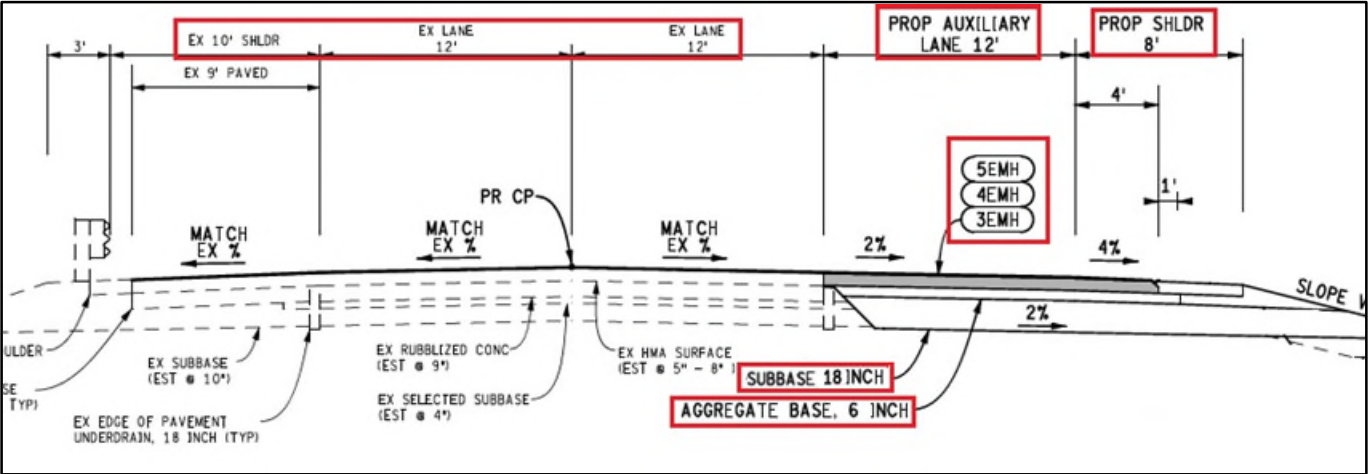
* Cut and Seal Method	:	Routed	▼
* HMA Crack Seal Manufacturer	:	Crafco, Inc.	▼
* HMA Crack Seal Product Name	:	Deery 101 ELT	▼
* Was Overband also used?	:	<input type="radio"/> Yes <input checked="" type="radio"/> No	

LAYERS

- ❑ Layers/work items should be entered in order of construction
- ❑ Only enter layers paved/placed in the current job
 - Existing layers or layers paved/placed in other jobs **should not** be entered with the current job



Lane Section [Lane # 1.0]	
#	Layer Name
3	HMA Top Course
2	HMA Level Course
1	Cold Milling



Segment Lane(s) Overview	
Lane #	Work Done
3.0	No
2.0	No
1.0	Yes

Segment Shoulder Overview		
	Left	Right
Work Done	No	Yes
Status		Complete

Lane Section [Lane # 1.0]	
#	Layer Name
5	HMA Top Course
4	HMA Level Course
3	HMA Base Course
2	Aggregate Base Course
1	Subbase

ATTRIBUTES

Select a Layer [Job # - 12404

Layer : HMA

Pavement Attributes - HMA T

- * Mix Type
- * Mix Design No (Case Sens
- * Application Rate
- * Asphalt Binder
- * Asphalt Binder Cert. Suppl
- * Asphalt % (Total)
- * Asphalt Binder %Added (V
- * AWI (Actual)
- * Warm Mix?
- * Shingles used in the mix?
- If Warm Mix, Water Foaming
- If Warm Mix, select Additive

Select New Aggregate

* Aggregate : Select an Agg

Source : -

Add Aggregate

Michigan Department of Transportation
1911 (08/2024)

JOB MIX FORMULA (JMF)
HMA FIELD COMMUNICATION

Clear Form

This form 1911 applies only to the project listed below and is not transferable to other projects.

DISTRIBUTION: ORIGINAL - Project Engineer COPIES - Contractor, Testing Laboratory, Inspector, and TMI File 305

CONTROL SECTION		JOB NO.		PROJECT ENGINEER		DATE EFFECTIVE	
CONTRACTOR		PLANT LOCATION		PLANT NO.			
TYPE OF MIXTURE		MIX DESIGN NO.		TESTING OPTION		PLANT CERTIFICATION DATE	
STAND. SPEC. DATE		MIX SP. PROV. DATE		QC/QA SP. PROV. DATE		VMA	
Gmm		Gmb		Go		Gse	
Gmb		Go		Gse		Gsb	
FINES/ASPHALT RATIO		COMPACTION TEMP.		MIXING TEMP.			
MIX/AGG. GRADATION, %		MIX/AGG. PROPORTION, %					
ITEM		PERCENT		MATERIAL/PRODUCER		PIT NO.	
PERCENT							
ASPHALT,% (TOTAL)							
P 1-1/2" (37.5 mm)							
P 1" (25.0 mm)							
P 3/4" (19.0 mm)							
P 1/2" (12.5 mm)							
P 3/8" (9.5 mm)							
P No. 4 (4.75 mm)							
P No. 8 (2.36 mm)							
P No. 16 (1.18 mm)							
P No. 30 (600 µm)							
P No. 50 (300 µm)				RECLAIMED		% ASPHALT IN RAP	
P No. 100 (150 µm)				FILLER			
P No. 200 (75 µm)				ASPHALT BINDER (VIRGIN)		GRADE	
CRUSHED 1 FACE		AWI (Spec.)		AWI (Actual)		WMA	
CRUSHED 2 FACES						WATER FOAMING	
BOND COAT		PRODUCER/LOCATION		CERTIFIED		YES	
REMARKS:							
JOB LOCATION		TRAVELING MIX INSPECTOR (TMI)		DATE			

Michigan Department of Transportation
1911 (03/14)

JOB MIX FORMULA (JMF)
HMA FIELD COMMUNICATION

Clear Form

This form 1911 applies only to the project listed below and is not transferable to other projects.

DISTRIBUTION: ORIGINAL - Project Engineer COPIES - Contractor, Testing Laboratory, Inspector, and TMI File 305

CONTROL SECTION		JOB NO.		PROJECT ENGINEER		DATE EFFECTIVE	
CONTRACTOR		PLANT LOCATION		PLANT NO.			
TYPE OF MIXTURE		MIX DESIGN NO.		TESTING OPTION		PLANT CERTIFICATION DATE	
STAND. SPEC. DATE		MIX SP. PROV. DATE		QC/QA SP. PROV. DATE		VMA	
Gmm		Gmb		Go		Gse	
Gmb		Go		Gse		Gsb	
FINES/ASPHALT RATIO		COMPACTION TEMP.		MIXING TEMP.			
MIX/AGG. GRADATION, %		MIX/AGG. PROPORTION, %					
ITEM		PERCENT		MATERIAL/PRODUCER		PIT NO.	
PERCENT							
ASPHALT,%		6.16		Sand		72-006	
P 1-1/2" (37.5 mm)		100.00		LWCD		60-018	
P 1" (25.0 mm)		100.00		H2		49-065	
P 3/4" (19.0 mm)		100.00		1/8-(Dust) C		72-027	
P 1/2" (12.5 mm)		100.00		3/8-1/8 C		72-027	
P 3/8" (9.5 mm)		97.20					
P No. 4 (4.75 mm)		83.00					
P No. 8 (2.36 mm)		65.20					
P No. 16 (1.18 mm)		49.20					
P No. 30 (600 µm)		38.10					
P No. 50 (300 µm)		18.50		RECLAIMED		RAP (Yard 4.93% AC)	
P No. 100 (150 µm)		8.00		FILLER			
P No. 200 (75 µm)		5.80		ASPHALT BINDER		GRADE	
CRUSHED 1 FACE		92.9		AWI (Spec.)		AWI (Actual)	
CRUSHED 2 FACES						QUALITY ASSURANCE TESTING	
BOND COAT		PRODUCER/LOCATION		CERTIFIED		YES	
REMARKS:							
JOB LOCATION		TRAVELING MIX INSPECTOR (TMI)		DATE			

PHD ENHANCEMENTS AND CHANGES

Simplified Data Entry for Non-JobNet Jobs

- ❑ **Non-let jobs:** Maintenance projects, TWA, Direct Forces Work, etc.
 - Beginning with PHD data entry for the 2025 construction season, material-related inputs for **Non-JobNet (non-let) jobs** have been simplified.
 - Most material **attributes are now optional** – including **HMA/Conc layers, CPM, repair work**

Pavement Attributes - HMA Top Course

* Mix Type : Select Mix Type - HMA Top Course ▼

* Mix Design No (Case Sensitive) :

* Application Rate : Select Application Rate ▼ #/syd

* Asphalt Binder : Select Asphalt Binder ▼

* Asphalt Binder Cert. Supplier : Select Asphalt Binder Certified Supplier ▼

* Asphalt % (Total) : [Numeric Value]

* Asphalt Binder %Added (Virgin) : [Numeric Value]

* AWI (Actual) : [Numeric Value]

* Warm Mix? : ☐ Yes ☐ No

* Shingles used in the mix? : ☐ Yes ☒ No

Select New Aggregate

* Aggregate : Select an Aggregate ▼

Source :

Add Aggregate



Pavement Attributes - HMA Top Course

* Mix Type : Select Mix Type - HMA Top Course ▼

☐ Mix Design No (Case Sensitive) :

* Application Rate : Select Application Rate ▼ #/syd

* Asphalt Binder : Select Asphalt Binder ▼

Asphalt Binder Cert. Supplier : Select Asphalt Binder Certified Supplier ▼

Asphalt % (Total) : [Numeric Value]

Asphalt Binder %Added (Virgin) : [Numeric Value]

AWI (Actual) : [Numeric Value]

Warm Mix? : ☐ Yes ☐ No

☐ Shingles used in the mix? : ☐ Yes ☒ No

Select New Aggregate

☐ Aggregate : Select an Aggregate ▼

Source :

Add Aggregate

Simplified Data Entry for Non-JobNet Jobs

Pavement Attributes - Conc Pavt Repairs (Full Depth)

* Concrete Grade : ▾

* Portland Cement Content : ▾ #/cyd

* Portland Cement Supplier : ▾

* Portland Cement Type : ▾

* Reinforcement Steel Mesh? : ☐ Yes ☐ No

* Thickness : ▾ in

Select New Aggregate

* Aggregate : ▾

Source :



Pavement Attributes - Conc Pavt Repairs (Full Depth)

* Concrete Grade : ▾

Portland Cement Content : ▾ #/cyd

Portland Cement Supplier : ▾

Portland Cement Type : ▾

Reinforcement Steel Mesh? : ☐ Yes ☐ No

* Thickness : ▾ in

Select New Aggregate

☐ Aggregate : ▾

Source :

❑ To make it easier for Regions/TSCs to enter **Non-JobNet jobs** in PHD

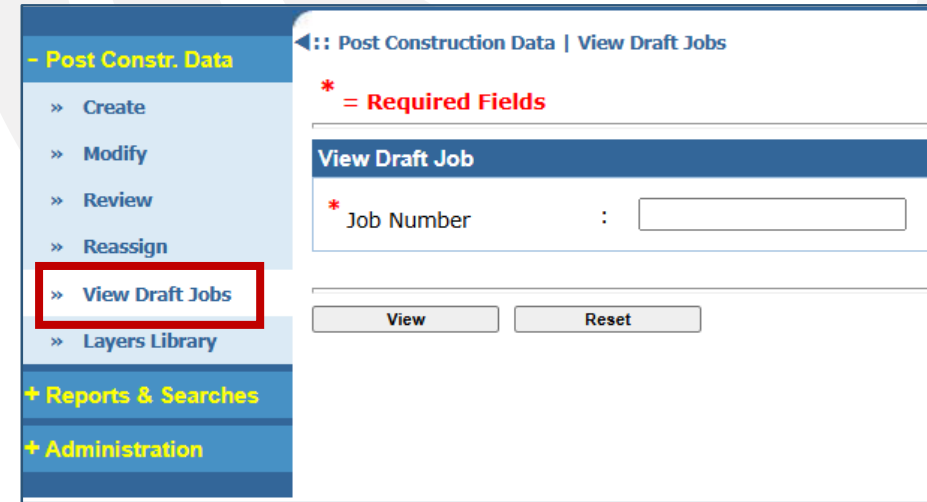
❑ To ensure that all **pavement-related Non-JobNet jobs (≥ 0.1 mile)** are entered into PHD

Recommend entering all available information whenever possible

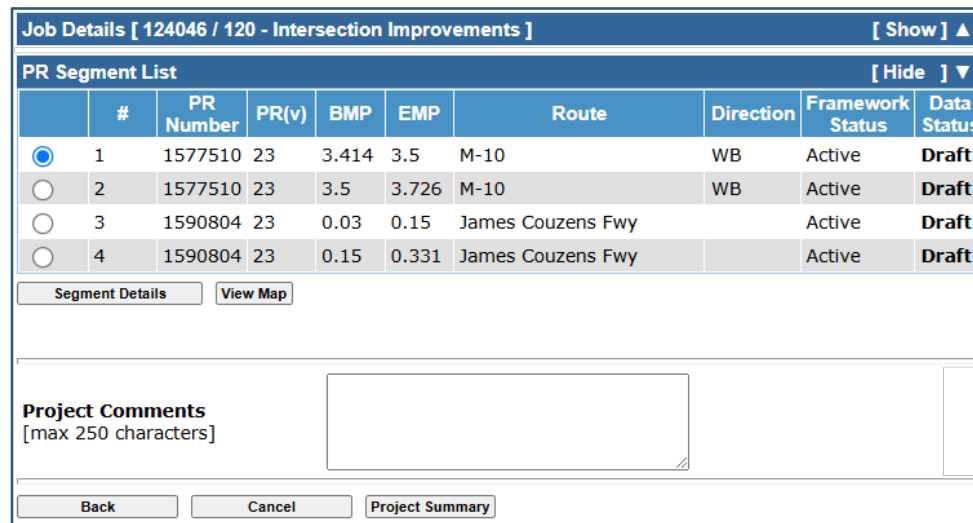
New submenu titled **View Draft Jobs**

❑ Added under the **Post Construction Data** menu

- Provides Data Owners with **view-only** access to their Data Entry users' job entries
- Data Owners **cannot make any edits**
- Allows Data Owners to review active jobs and identify any possible missing/incorrect data early in the process

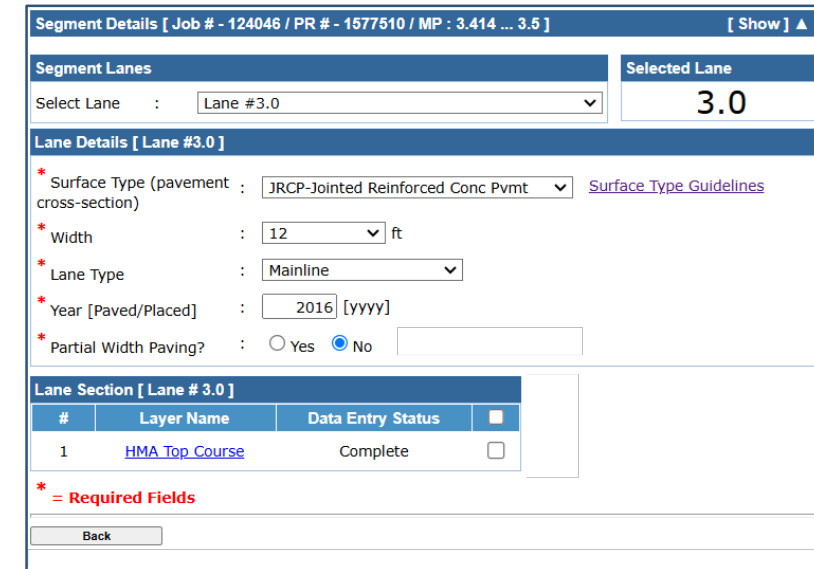


The image shows a software interface. On the left is a sidebar menu with the following items: '- Post Constr. Data', '>> Create', '>> Modify', '>> Review', '>> Reassign', '>> View Draft Jobs' (highlighted with a red box), '>> Layers Library', '+ Reports & Searches', and '+ Administration'. On the right is a form titled 'Post Construction Data | View Draft Jobs'. It includes a legend '* = Required Fields', a 'View Draft Job' section with a required 'Job Number' field, and 'View' and 'Reset' buttons.



The image shows a 'Job Details' page for Job # 124046 / 120 - Intersection Improvements. It features a 'PR Segment List' table with columns for #, PR Number, PR(v), BMP, EMP, Route, Direction, Framework Status, and Data Status. Below the table are buttons for 'Segment Details' and 'View Map', a 'Project Comments' text area, and 'Back', 'Cancel', and 'Project Summary' buttons.

#	PR Number	PR(v)	BMP	EMP	Route	Direction	Framework Status	Data Status
<input checked="" type="radio"/> 1	1577510	23	3.414	3.5	M-10	WB	Active	Draft
<input type="radio"/> 2	1577510	23	3.5	3.726	M-10	WB	Active	Draft
<input type="radio"/> 3	1590804	23	0.03	0.15	James Couzens Fwy		Active	Draft
<input type="radio"/> 4	1590804	23	0.15	0.331	James Couzens Fwy		Active	Draft



The image shows a 'Segment Details' page for Job # - 124046 / PR # - 1577510 / MP : 3.414 ... 3.5. It includes a 'Segment Lanes' section with a 'Selected Lane' dropdown set to 'Lane #3.0'. Below is a 'Lane Details' section with fields for Surface Type, Width, Lane Type, Year, and Partial Width Paving. At the bottom is a 'Lane Section' table and a 'Back' button.

#	Layer Name	Data Entry Status	
1	HMA Top Course	Complete	<input type="checkbox"/>

FAQ / BUSINESS RULES

Simplified CPM Jobs in PHD

- ❑ Jobs with WTC from 400 – 499 are **Capital Preventive Maintenance (CPM)** type jobs
 - Asphalt Crack Treatments, Sealing Concrete Joints, Overband Crackfill, etc.
 - Simplified data entry process
 - Requires segment layer information **only** (No entry of individual lanes and their details)
 - **Does not** allow entry of **shoulder details** (still requires shoulder layer(s)/work item(s))
 - **Does not** require **segmentation** based on lane or shoulder changes
 - **Does not** allow entry of **median information**
 - Simplified CPM format **should not** be used
 - Lanes have different paved or placed work
 - Projects with HMA paving

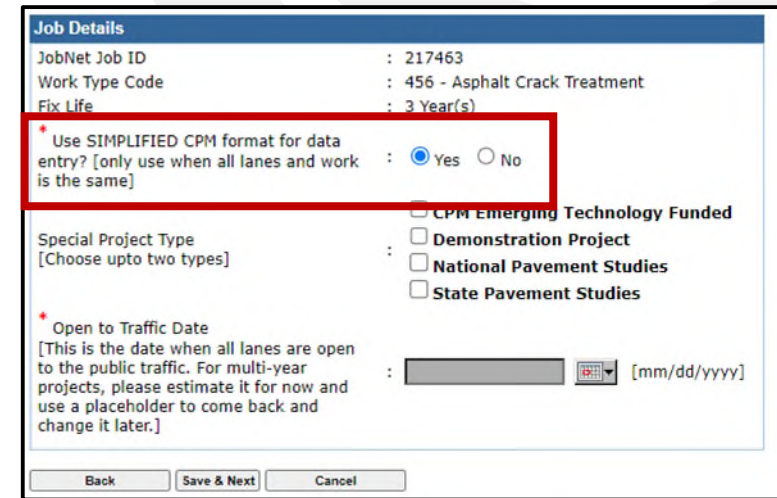
The screenshot displays the PHD software interface for Segment Details. The main window is titled "Segment Details [Job # - 217463 / PR # - 1497810 / MP : 0 ... 0.312]" with a "[Show] ▲" button. The interface is divided into several sections:

- Segment Shoulder Overview:** A table with columns for "Left" and "Right" under "Work Done" and "Status".
- Segment Curb & Gutter Overview:** A table with columns for "Left" and "Right" under "Work Done" and "Status".
- Shoulder, Curb & Gutter Details:** A section for "Year [Paved/Placed]" with a text input field and a "[yyyy]" placeholder.
- Segment Sections:** A table with columns for "#", "Layer Name", "Data Entry Status", and a checkbox. It includes "Move Up", "Move Down", and "Remove" buttons.
- Select New Layer:** A section with a "Layer :" dropdown menu and an "Add Layer" button.
- Select a Layer from the Layers Library:** A section with a "Layer :" dropdown menu and an "Add Layer" button.
- Segment Comments:** A text area labeled "Segment Comments [max 250 characters]" at the bottom.

A red rectangular box highlights the "Segment Sections" table and the "Select New Layer" and "Select a Layer from the Layers Library" sections.

Simplified CPM Jobs in PHD

- ❑ The **Simplified CPM format** will remain once selected at job creation
 - Cannot be changed later
 - If selected in error – contact the PHD Administrator



The screenshot shows the 'Job Details' form in the PHD system. The 'JobNet Job ID' is 217463, 'Work Type Code' is 456 - Asphalt Crack Treatment, and 'Fix Life' is 3 Year(s). A red box highlights the question: '* Use SIMPLIFIED CPM format for data entry? [only use when all lanes and work is the same]'. The 'Yes' radio button is selected. Below this, there are checkboxes for 'CPM Emerging Technology Funded', 'Demonstration Project', 'National Pavement Studies', and 'State Pavement Studies'. At the bottom, there is a date field for 'Open to Traffic Date' with a calendar icon and a placeholder for the date in mm/dd/yyyy format. The form has 'Back', 'Save & Next', and 'Cancel' buttons at the bottom.

- ❑ Most other PHD screens, functions, and selections are similar to **Standard format jobs**
 - See the Appendix (slides **76 – 133**) for more details

JOB DATA ENTRY

❑ Projects with multiple job numbers - **enter each job number separately**

- **Example:** A project is let with a job number for intersection improvements and another job number for work outside the intersection

<u>CONTRACT ID</u>	<u>CONTROL SECTION</u>	<u>PROJECT</u>
34043-202595	IM	34043 202595A
	IM	41024 208782A

❑ Job numbers **without** pavement work are **not** entered

- **Examples:** Freeway lighting, signing, pavement markings, landscaping, culverts, guardrails, drainage structures, etc.

JOB DATA ENTRY

- ❑ How do I enter **Multi-year construction**?
 - Keep it in **Draft status** until the project is complete
- ❑ Jobs with segments **outside your jurisdiction (location)** cannot be started/accessed
 - Contact the **PHD Administrator**
- ❑ How do I **edit a Finalized job** in the PHD database?
 - Contact the **PHD Administrator** to **unlock** it and **reassign** it
 - The Administrator will need to know the **Job ID**



SEGMENT DATA ENTRY

- ❑ Only enter **work done on MDOT trunkline**
 - **Local** roadways should not be entered into PHD



- ❑ PHD uses PR info and PR milepoints: might not match CS milepoints
 - Use **MDOT PR Finder** to collect numbers and milepoints
- ❑ Auto-populated PHD segments show incorrect milepoints (i.e., as-constructed differs from JobNet):
 - **Change milepoints** in PHD

PR-MP		CS-MP	
PR:	1362105	CS:	11017
From Measure:	2.0153710	CS LRM Key:	1101701
To Measure:	2.4725684	CS Branch:	01
Total Length: 0.4571974		UNID:	
Longitude (X):		From Measure: 6.3994538	
Latitude (Y):		To Measure: 6.6178475	
View Date: 10/24/2022, 10:49 PM		Total Length: 0.2183937	
		Longitude (X):	
		Latitude (Y):	
		View Date: 10/24/2022, 10:49 PM	

SEGMENT DATA ENTRY

- ❑ Segments with a **new ramp**, **new roundabout**, or **alignment changes**
 - Cannot create the segment (with a new PR number) or change MPs of existing segment
- ❑ To enter/update such segment(s) select **Future** PR Version

PR Segment List [Hide] ▼									
	#	PR Number	PR(v)	BMP	EMP	Route	Direction	Framework Status	Data Status
<input checked="" type="radio"/>	1	1576405	24	14.94	15.131	I-94	EB	Active	Draft
<input type="radio"/>	2	1576405	24	15.131	15.2	I-94	EB	Active	Draft
<div>Segment Details Copy Segment Details Create Segment Delete Segment(s) View Map Layers Library Overview</div>									

Create PR Segment [Job # - TESTTr]

Latest PR Version	PR Number *	BMP *	EMP *
24			
24			
Future			

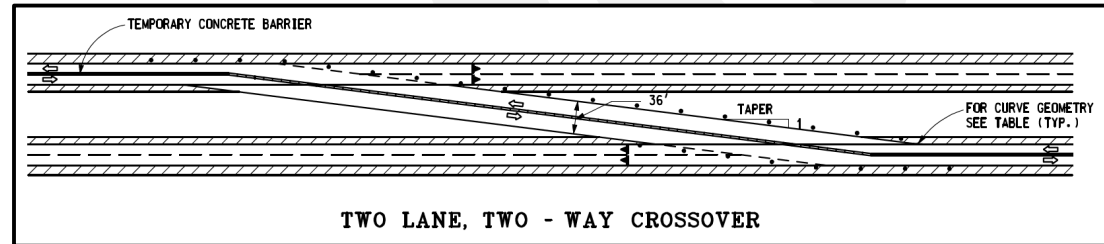
Create Create and Add One More Back

PR Segment List [Hide] ▼									
	#	PR Number	PR(v)	BMP	EMP	Route	Direction	Framework Status	Data Status
<input checked="" type="radio"/>	1	123456		0	2			Inactive	Draft
<input type="radio"/>	2	1576405	24	14.94	15.131	I-94	EB	Active	Draft
<input type="radio"/>	3	1576405	24	15.131	15.2	I-94	EB	Active	Draft
<div>Segment Details Copy Segment Details Create Segment Delete Segment(s) View Map Layers Library Overview</div>									

SEGMENT DATA ENTRY

☐ Maintenance cross-overs are not entered

- Even if they have PR numbers



☐ Only work/materials assigned to **that Job/Segment**

- Do not enter existing layers
- Do not enter Lanes and/or Shoulders when **no work** has been done
- **Exceptions:**
 - Surface Type (consider entire underlying cross-section)
 - Enter Median Type and Width (predominant/average) even if no work was conducted on the median

LANE, SHOULDER/CURB & GUTTER DATA ENTRY

Lane Details [Lane #3.0]

*

Surface Type (pavement cross-section)

:

HMA over existing Jointed Conc



[Surface Type Guidelines](#)

The entire asphalt pavement replaced in this job



surface type is (HMA Full Depth)

An HMA overlay in a lane with existing HMA
(without any existing concrete pavement)



surface type is (HMA over existing HMA)

An HMA overlay in a lane with existing JPCP concrete pavement



surface type is (HMA over existing Jointed Conc)

Micro-Surface, Chip Seal, etc. (thickness ≥ 0.5 ")
Considered as a layer



surface type is (HMA over existing HMA/Conc)

Micro-Surface, Chip Seal, etc. (thickness < 0.5 ")
Considered as a non-structural layer *



Consider the existing layers only

* when defining Surface Type - still need to be entered as a layer in PHD

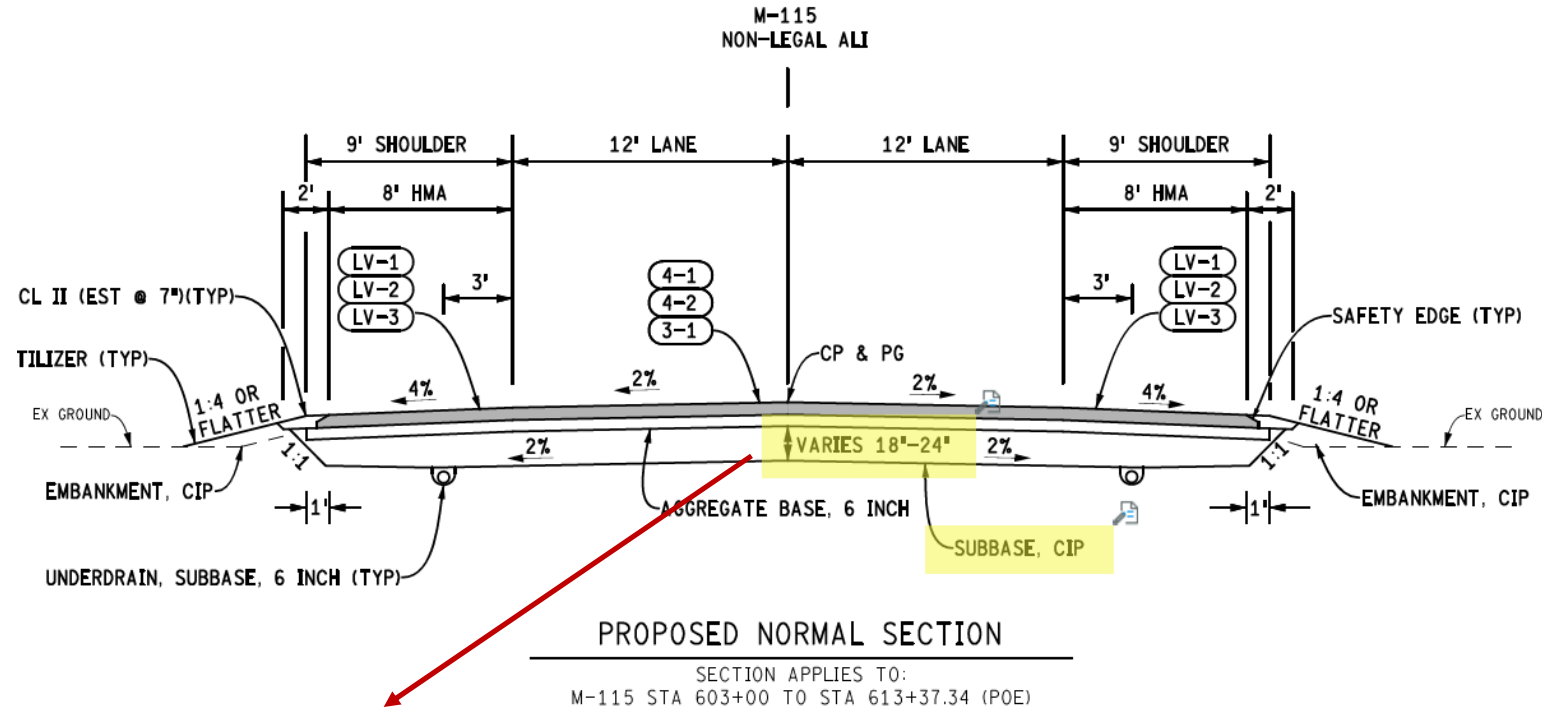
LANE, SHOULDER/CURB & GUTTER DATA ENTRY

- ❑ Partial curb & gutter work – how much requires entry in PHD?
 - **More than 5%** of the total length of the curb & gutter is replaced –
 - Select ‘Yes’ for Curb & Gutter Work Done (no need to segment on those locations), and
 - Add **comment** that replacement is intermittent

LAYER DATA ENTRY

❑ Layer is variable thicknesses:

- Use **average** or **predominant thicknesses**
- Insert a **Segment Comment**



Segment
Comments
[max 250
characters]

Subbase has a variable depth of 18"-24" in this segment.

GENERAL

❑ If entry for Layers, measurement units, suppliers, materials, or entry items are **missing** in PHD:

- Contact the **PHD Administrator**

* = Required Fields

Select a Layer[Job # - TEE / PR # - 405903/ MP :0 ... 0.461]

Layer : Conc Pavt Repairs (Full Depth) ▾

Pavement Attributes - Conc Pavt Repairs (Full Depth)

* Portland Cement Supplier	:	Select Portland Cement Supplier ▾
* Portland Cement Type	:	Aetna
* Thickness	:	Argos USA, LLC-Martinsburg, WV
* Reinforcement Steel Mesh?	:	Ash Grove - Joliette, Quebec, Canada
* Cement Content	:	Ash Grove - Mississauga, Ontario, Canada
* Concrete Grade	:	Blue Circle

Select New Aggregate

* Aggregate	:	Select an Aggregate ▾
Source	:	<input type="text"/> — <input type="text"/>

Add Aggregate

Back Complete Layer Restore Defaults Cancel

Save Layer As Draft Add to Quick Layers

Cannot see the **Cement Supplier** name for my job?

PHD DATA REVIEW & QA

DATA OWNER REVIEW

- ❑ Data Owners review **all** segments/lanes/layers in a job
- ❑ If Data Owner finds errors/omissions:
 - Data Owner makes changes & Finalize job
 - **OR** Data Owner reassigns the job back to Data Entry user



Role[s] :: Data Owner , System Administrator

Post Construction Data | Reassign List

Search Filter [Hide]

Job Type : ☐ JobNet Job ☐ Non JobNet Job ☒ Both

Work Type : Any

JobNet Job ID	Non JobNet Job ID	Non JobNet Job Type	Work Type	Current User	Assign To
33799	—	—	160—Reconstruction	Hamlin Alison	-Select User-
37795	—	—	213—Interchange Redesign & Upgrading	Loree Jonathan	-Select User-
45790	—	—	164—Asphalt Reconstruction	Loehle William	-Select User-
45883	—	—	142—Resurf, Mill & Pulver	Budida Santa	-Select User-
			129—Add Turn	Inrep	

Update

COMMON ENTRY ERRORS TO LOOK FOR

- ❑ Incorrect project PR# and milepoints
- ❑ Segments input in the wrong direction
- ❑ Over/Under segmentation
- ❑ Omitted/Missing items:
 - Work items (example: ramps or pre-overlay work)
 - Lanes, Shoulder, Curb & Gutter / Layers / Attributes
 - Aggregates from a mix design
 - Warm mix designation (incorrect or missing)



COMMON ENTRY ERRORS TO LOOK FOR

☐ Layers:

- Layers in the wrong order (upside down)
- Extra/duplicated layers

☐ Lane Numbering:

- Lane 1 not a mainline lane
- Lane 0, -1, etc. being a mainline lane

☐ Incorrect Lane/Shoulder, Curb & Gutter:

- Surface Type
- Lane/shoulder Widths
- Lane Type

☐ Copying errors

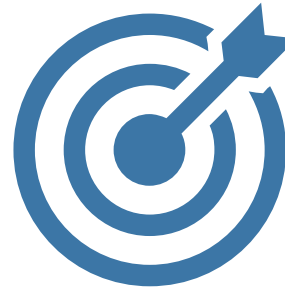


CENTRAL OFFICE QA

- ❑ QA begins immediately following the **January 31st** entry closing date
- ❑ Two Part evaluation process:



Part 1
Completeness



Part 2
Accuracy

- ❑ QA expected to take approximately **three months** to complete (ends around **April**)

CENTRAL OFFICE QA

❑ Part 1 – Completeness

- Are all pavement jobs **entered**?
 - Info compared from **JobNet Database** to **PHD Database**
 - Discrepancies e-mailed to verify if job(s) should be entered
 - **Data Entry user** enters missing job



❑ Part 2 – Accuracy

- Are jobs **entered correctly**?
 - Completed PHD projects are **sampled at random*** for each Region
 - Compare construction documents (**plans** & other **PWise resources**) to PHD
 - Possible errors are sent to the **Data Entry user** to verify/correct

** Accounts for approx. 15% of all entered jobs.
This is not a verification of all jobs.*



DATA EXPORT & REPORTS

PHD REPORTS AND SEARCHES


□ PHD Reports and Searches:

- Export Data – generates selectable data items (Excel)
- Search Segment(s) – finds segments within finalized jobs
- Construction History Report – generates segment/job info (Excel or PDF)
- Material Information Report – finds segments per materials (PDF or Excel)
- Material Quantity Report – quantities of HMA and PCC per time period (PDF or Excel)
- Network Inventory Report – lane-miles of rigid/flexible/comp lanes or shoulders (PDF or Excel)
- Work Type Report – finds segments by work type code (PDF or Excel)
- JobNet Reconciliation – finds jobs from JobNet (MAP) which are not entered into PHD (PDF)

- Reports & Searches

- » Export Data
- » Search Segment(s)
- » Construction History
- » Material Information
- » Material Quantity
- » Network Inventory
- » Work Type
- » JobNet Reconciliation

EXPORT DATA

- ❑ Search and export any **MDOT's trunkline road segment** to view **pavement cross-section, materials, maintenance history**, etc.
- ❑ Search segment data by geographic area (Statewide, Region, TSC, or County)
- ❑ Various Export Types: 
- ❑ Reports in **Excel** format
- ❑ Report per **segment info** (PR#, MPs, Route, etc.)



Export Type	Selectable Items (Column Headers)	
Job Details	<ul style="list-style-type: none"> Non MAP Job Type Special Project Type National Pavement Study Number State Pavement Study Number Work Type Code 	<ul style="list-style-type: none"> Work Type Code Description Date (Open to Traffic) Date Type Fix Life Project Comment
Lane: Layers & Details	<ul style="list-style-type: none"> Year (Constructed) Lane Number Lane Surface Type Lane Width 	<ul style="list-style-type: none"> Lane Type Layer Number Layer Name Attributes (Name & Value)
Lane: Aggregates	<ul style="list-style-type: none"> Year (Constructed) Lane Number Lane Surface Type Layer Number 	<ul style="list-style-type: none"> Layer Name Aggregate Name Source/Pit Number
Shoulder: Layers & Details	<ul style="list-style-type: none"> Side Indicator Surface Type Corrugations (Rumble Strip) Parking Lane Paved Width Total Width 	<ul style="list-style-type: none"> Paved Thickness Paving Width Layer Number Layer Name Attributes (Name & Value)
Shoulder: Aggregates	<ul style="list-style-type: none"> Side Indicator Surface Type Layer Number 	<ul style="list-style-type: none"> Layer Name Aggregate Name Source/Pit Number
Curb & Gutter: Details	<ul style="list-style-type: none"> Side Indicator Attributes (Name & Value) 	
Median: Details	<ul style="list-style-type: none"> Median Type Median Width 	

EXPORT DATA (EXAMPLES)

❑ Export Type – Job Details

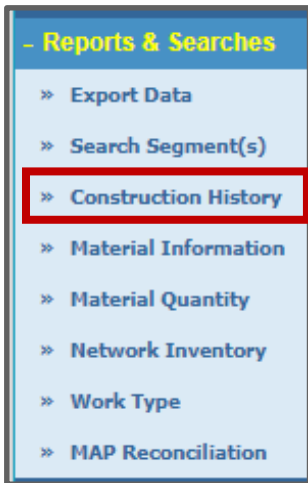
	C	D	E		H	I	J	K	L	M	N	O	R	S	T	V
	PR							MAP Job	Non MAP	Non MAP			Work			
1	Number	PR BMP	PR EMP	Road Name	County	TSC	Region	ID	Job ID	Job Type	Special Project Type	Type Code	Work Type Description	Date (Open to Traffic)	Fix Life	
49	535604	0.598	1.387	N I 75 BL	Crawford	Gaylord	North	204234				45	Asphalt Crack Treatment	7/24/2019	1	
50	535604	1.387	1.472	N I 75 BL	Crawford	Gaylord	North	204234				45	Asphalt Crack Treatment	7/24/2019	1	
51	535604	1.467	3.256	N I 75 BL	Crawford	Gaylord	North	131781				40	Milling & One Course Asphalt Ove	11/1/2018	10	
52	535604	3.256	4.015	N I 75 BL	Crawford	Gaylord	North	131781				40	Milling & One Course Asphalt Ove	11/1/2018	10	
53	535604	4.017	5.5	N I 75 BL	Crawford	Gaylord	North	200685				44	Single Course Chip Seal	6/13/2019	6	
54	535604	5.5	5.58	N I 75 BL	Crawford	Gaylord	North	200685				44	Single Course Chip Seal	6/13/2019	6	
55	1283009	0.283	1.96	S Burkett Rd	Missaukee	Traverse City	North		21-3123	TWA		15	Shoulder Rehabilitation	9/29/2021	14	
56	1283009	0.3	2.138	S Burkett Rd	Missaukee	Traverse City	North		210772			45	Asphalt Crack Treatment	7/14/2021	3	
57	1283009	1.96	1.997	S Burkett Rd	Missaukee	Traverse City	North		21-3123	TWA		15	Shoulder Rehabilitation	9/29/2021	14	
58	1283009	1.997	2.018	S Burkett Rd	Missaukee	Traverse City	North		21-3123	TWA		15	Shoulder Rehabilitation	9/29/2021	14	

❑ Export Type – Lane: Layer Details

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
	PR Number	PR BMP	PR EMP	Road Name	County	TSC	Region	MAP Job ID	Year (Constructed)	Lane Number	Lane Surface Type	Layer Name	Attribute	Value	
1															
2	935207	25.359	26.023	W I 96	Livingston	Brighton	University	212727	2021	1	HMA over existing Jointed Conc	Overband CrackFill Stand Alone	Overband Crack Fill Product	WR Meadows 1190 (W.R. Meadows, Inc.)	
6	935105	25.308	26.293	E I 96	Livingston	Brighton	University	212727	2021	1	HMA over existing Jointed Conc	Overband CrackFill Stand Alone	Overband Crack Fill Product	WR Meadows 1190 (W.R. Meadows, Inc.)	
7	935105	26.501	26.695	E I 96	Livingston	Brighton	University	212727	2021	1	HMA over existing Jointed Conc	Overband CrackFill Stand Alone	Overband Crack Fill Product	WR Meadows 1190 (W.R. Meadows, Inc.)	
8	935105	26.968	27.461	E I 96	Livingston	Brighton	University	212727	2021	1	HMA over existing Jointed Conc	Overband CrackFill Stand Alone	Overband Crack Fill Product	WR Meadows 1190 (W.R. Meadows, Inc.)	
15	1551710	6.018	6.5	US 2	Dickinson	Crystal Fal	Superior	208474	2021	1	HMA over existing Jointed Conc	HMA Top Course	Asphalt Binder	PG 58-28	
16	1551710	6.018	6.5	US 2	Dickinson	Crystal Fal	Superior	208474	2021	1	HMA over existing Jointed Conc	HMA Top Course	Asphalt Binder Certified Supplier	Husky Energy, Rhinelander, WI	
17	1551710	6.018	6.5	US 2	Dickinson	Crystal Fal	Superior	208474	2021	1	HMA over existing Jointed Conc	HMA Top Course	Mix Design No. (Case Sensitive)	21MD194	
18	1551710	7.169	8.242	US 2	Dickinson	Crystal Fal	Superior	208474	2021	1	HMA over existing Jointed Conc	HMA Top Course	Asphalt Binder	PG 58-28	
19	1551710	7.169	8.242	US 2	Dickinson	Crystal Fal	Superior	208474	2021	1	HMA over existing Jointed Conc	HMA Top Course	Asphalt Binder Certified Supplier	Husky Energy, Rhinelander, WI	
20	1551710	7.169	8.242	US 2	Dickinson	Crystal Fal	Superior	208474	2021	1	HMA over existing Jointed Conc	HMA Top Course	Mix Design No. (Case Sensitive)	21MD194	

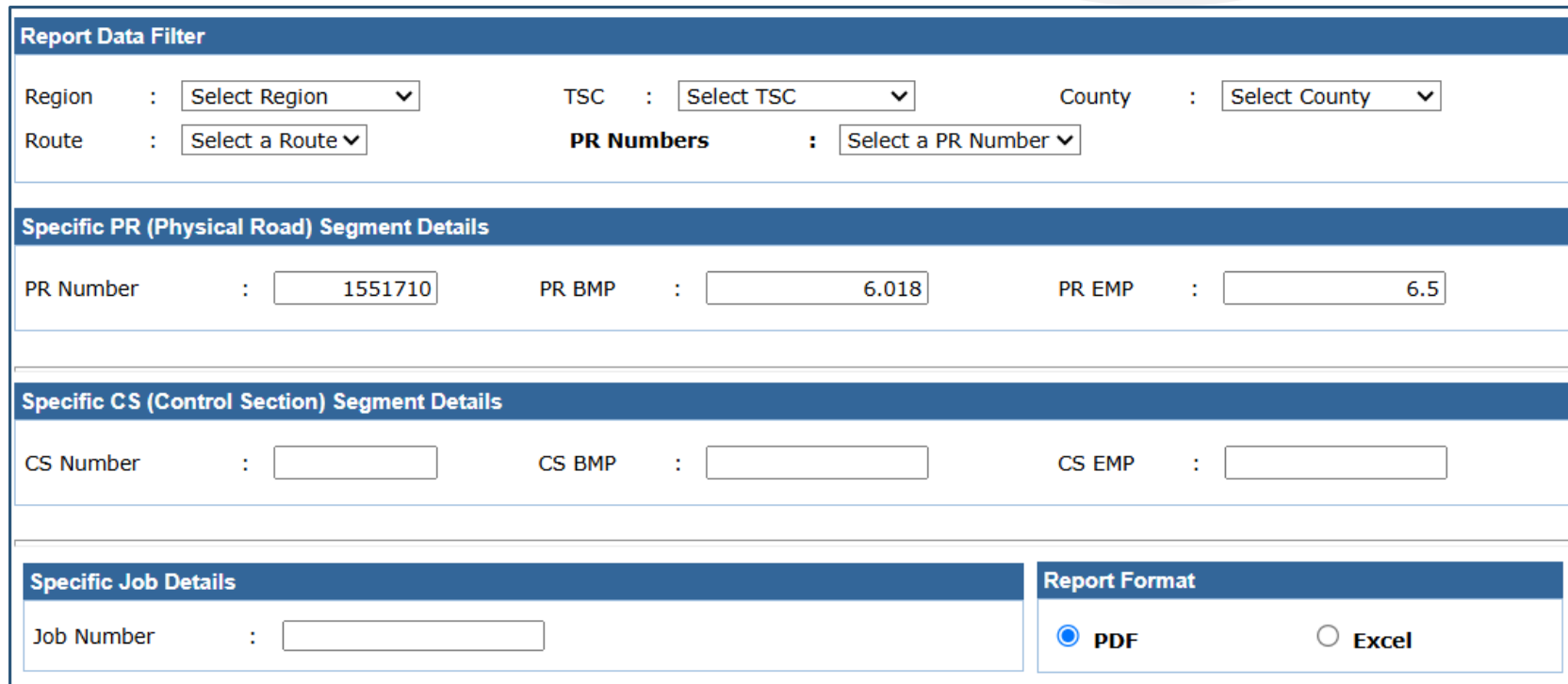
CONSTRUCTION HISTORY REPORT

- ☐ Report shows all completed projects for a specific route/location
- ☐ Search by PR#, CS#, or Job #
- ☐ Report in **PDF & Excel format**



- Reports & Searches

- » Export Data
- » Search Segment(s)
- » Construction History**
- » Material Information
- » Material Quantity
- » Network Inventory
- » Work Type
- » MAP Reconciliation



Report Data Filter

Region : TSC : County :

Route : **PR Numbers** :

Specific PR (Physical Road) Segment Details

PR Number : PR BMP : PR EMP :

Specific CS (Control Section) Segment Details

CS Number : CS BMP : CS EMP :

Specific Job Details

Job Number :

Report Format

☒ PDF ☐ Excel

Segment Details

Region	TSC	County	Route	PR Number	PR BMP	PR EMP
Superior	Ishpeming	Houghton	M-26	1175102	0	4.000

Job Number	① Work Type	Fix Life (Yrs)	Cost ^[1] / Lane Mile (\$)	Date
124067	400 - Multiple Course Chip Seal	7	0.00	07/28/2015 ^[a]

Job Number	② Work Type	Fix Life (Yrs)	Cost ^[1] / Lane Mile (\$)	Date	Lanes
202213	456 - Asphalt Crack Treatment	3	2,585.18	09/10/2018 ^[a]	2

Job Number	③ Work Type	Fix Life (Yrs)	Cost ^[1] / Lane Mile (\$)	Date	Lanes
208494	443 - One Course Asphalt Overlay	10	115,580.84	09/30/2023 ^[a]	2

Year Constructed	Pavement	Attribute	Value
2018	Overband CrackFill Stand Alone	Overband Crack Fill Product	1190 (Right Pointe)

Pavement	Attribute	Value	Aggregate	Pit / Source
HMA Top Course	AWI (Actual)	327	1/4 MS	31-077
	Application Rate	165 Pounds Per Square Yard	WNS	31-077
	Asphalt % (Total)	5.84	1/2 x 1/4	31-077
	Asphalt Binder	PG 58-34	Nat Sand	31-077
	Asphalt Binder %Added (Virgin)	4.43		
	Asphalt Binder Certified Supplier	Const. Resources Management, Inc., Gladstone, MI		
	Mix Design No. (Case Sensitive)	22MD319		
	Mix Type - HMA Top Course	5EL		
	Shingles Used	N		
	Warm Mix	N		

MATERIAL INFORMATION REPORT

- ☐ Finds road segments that have specified **layers** or **layer attributes** for a geographic area
 - Geographic areas include Statewide, Regions, TSCs, and Counties
- ☐ Report in **PDF** or **Excel** format

- Reports & Searches	
»	Export Data
»	Search Segment(s)
»	Construction History
»	Material Information
»	Material Quantity
»	Network Inventory
»	Work Type
»	MAP Reconciliation



Material Information Report									
Report Criteria [Region: Grand / TSC: Cadillac]									
Pavement	Attribute		Attribute Value						
HMA Top Course	Asphalt Binder		PG 70-28P						
Job Number	Route	County	PR Number	PR BMP	PR EMP	Date	RSL	Year RSL	Work Type
204067	M-66	Mecosta	526107	8.86	8.891	2020-06-19 00:00:00.0	-	-	408 - "Milling & One Course Asphalt Overlay"
204067	M-66	Mecosta	526107	8.86	8.891	2020-06-19 00:00:00.0	-	-	408 - "Milling & One Course Asphalt Overlay"
204067	M-66	Mecosta	526107	9.088	9.221	2020-06-19 00:00:00.0	-	-	408 - "Milling & One Course Asphalt Overlay"
204067	M-66	Mecosta	526107	8.966	9.088	2020-06-19 00:00:00.0	-	-	408 - "Milling & One Course Asphalt Overlay"
204067	M-66	Mecosta	526107	8.966	9.088	2020-06-19 00:00:00.0	-	-	408 - "Milling & One Course Asphalt Overlay"
204208	M-20	Mecosta	524902	3.214	3.401	2021-06-18 00:00:00.0	-	-	440 - "Single Course Chip Seal"
204208	M-20	Mecosta	524902	3.154	3.214	2021-06-18 00:00:00.0	-	-	440 - "Single Course Chip Seal"
204208	M-20	Mecosta	524902	3.154	3.214	2021-06-18 00:00:00.0	-	-	440 - "Single Course Chip Seal"
204208	M-20	Mecosta	524902	3.401	3.496	2021-06-18 00:00:00.0	-	-	440 - "Single Course Chip Seal"
204208	M-20	Mecosta	524902	3.401	3.496	2021-06-18 00:00:00.0	-	-	440 - "Single Course Chip Seal"
204208	M-20	Mecosta	524902	3.154	3.214	2021-06-18 00:00:00.0	-	-	440 - "Single Course Chip Seal"
204208	M-20	Mecosta	524902	3.154	3.214	2021-06-18 00:00:00.0	-	-	440 - "Single Course Chip Seal"
208279	M-82	Newaygo	712309	4.922	4.958	2021-05-19 00:00:00.0	-	-	164 - "Asphalt Reconstruction"
208279	M-82	Newaygo	712309	4.922	4.958	2021-05-19 00:00:00.0	-	-	164 - "Asphalt Reconstruction"
208279	M-82	Newaygo	712309	4.971	5.01	2021-05-19 00:00:00.0	-	-	164 - "Asphalt Reconstruction"
208279	M-82	Newaygo	712309	4.849	4.922	2021-05-19 00:00:00.0	-	-	164 - "Asphalt Reconstruction"
208279	M-82	Newaygo	712309	4.958	4.971	2021-05-19 00:00:00.0	-	-	164 - "Asphalt Reconstruction"
208279	M-82	Newaygo	712309	4.958	4.971	2021-05-19 00:00:00.0	-	-	164 - "Asphalt Reconstruction"

MATERIAL QUANTITY REPORT

- ❑ **Compares** quantities of **HMA** and **PCC** placed during a specified time period in a geographic location
- ❑ Report in **PDF** or **Excel format**

- Reports & Searches	
»	Export Data
»	Search Segment(s)
»	Construction History
»	Material Information
»	Material Quantity
»	Network Inventory
»	Work Type
»	MAP Reconciliation

Material Quantity Report							
Report Criteria							
Region	TSC	From Year		To Year			
Metro	All TSCs	2017		2020			
Report Data							
Region	TSC	Lane Miles (miles)		Volume (cu. yds) / Tonnage (tons)		Area (sq. yds)	
		PCC	HMA	PCC	HMA	PCC	HMA
Metro	Detroit	27.33	74.92	190,820.39	530,680.44	65,329.29	49,037.00
Metro	Oakland	0.00	11.51	0.00	79,633.78	0.00	8,334.13
Metro	Taylor	0.03	0.95	315.96	6,607.18	105.32	545.09
Metro	Macomb	0.00	127.02	0.00	885,264.65	0.00	121,652.40
Metro Region Totals		27.36	214.40	191,136.34	1,502,186.06	65,434.61	179,568.62

RESOURCES

RESOURCES

ProjectWise (P Wise):

- <https://mdotjboss.state.mi.us/SpecProv/projectwisesupport.htm>
- Plans/proposal/addendum
- Pay Items/Tickets/Field Notes/Mix Designs

Construction Inquiry System:

- <https://mdotjboss.state.mi.us/CCI/home.htm>
- Summary of project items (pay items completed)

PR finder:

- <https://mdotgis.state.mi.us/portal/apps/webappviewer/index.html?id=c3aa2462a1e24e37a33184a33e5976aa>
- Find PR via CS, intersection, road name, interactive map

JobNet

- <https://miloginworker.michigan.gov/uisecure/selfservice>
- Find programmed MDOT jobs

PHD WEBSITE

❑ Public:

- <https://www.michigan.gov/mdot/business/construction/pavement-operations/pavement-historical-database>

❑ MDOT Internal:

- <https://stateofmichigan.sharepoint.com/sites/MDOT-SPC-Bureau-Field-Services/SitePages/Pavement-Operations.aspx>

- Links to Resources
- Helpful Documents:
 - PHD User Guide
 - FAQ, Business Rules
 - Quick Reference Guide
 - PHD Attribute Locations
- Training Presentations
- Training/instructional videos

Training Videos

These training videos are designed to help those entering or utilizing PHD data. Each video is a separate topic that includes instructions and examples.

These videos are intended to support, but not replace annual training that typically occurs in November and January. View videos on the YouTube playlist or select from the list below.

[PHD Training Videos YouTube Playlist](#) >



Title	Description	Duration
1 - PHD Access, Interface Appearance, and Creating a New Job	How to request access, the different levels of accesses, platform interface, and creating jobs in PHD.	8 mins
2 - Standard Job Data Entry (Rehabilitation Job - Part 1): Segmentation and Data Entry Preparation	Project segmentation including creating new segments, editing existing segments, and deleting unnecessary segments. PHD job entry preparation and gathering and compiling project data.	9 mins
3 - Standard Job Data Entry (Rehabilitation Job - Part 2): Lanes, Layers, and Attributes	Lane inputs and the lane numbering guidelines. Layers and their attributes. Quick Layer and Copy Lane options to apply existing layers and their attributes to other lanes and/or shoulders to reduce the data entry time and effort.	13 mins

ADMINISTRATOR CONTACT



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REGION PHD LIAISONS

**Region PHD Liaisons
can help too!**



Bay: Brett Schlager



Grand: Richard Clossen / Bill Loehle



Metro: Jorind Bardhollari



North: Margaret Szajner



Southwest: Kyle Rudlaff



Superior: Alison Hamlin



University: Robert Green

PHD TRAINING EVALUATION

- ❑ Your feedback is greatly appreciated and will be used to assist us in evaluating and improving future training courses

<https://www.research.net/r/KTK6KNZ>



FEEDBACK

QUESTIONS

Thank You!



QUESTIONS

APPENDIX DATA ENTRY PROCESS

CREATE NEW JOB SCREEN

(1) *Navigate to:*
Post Constr. Data →
Create

Fawaz Kaseer Pavement Historical Database Assignment : Statewide

Post Construction Data | Create New Role[s] :: Data Owner , System Administrator

* = Required Fields

Enter Job Information

* Is JobNet Job : ☒ Yes ☐ No

* JobNet Job ID :

Measurement System

☒ English ☐ Metric

Next Step Cancel

☐ For **JobNet jobs:**

- Job ID is the MDOT Job Number without the 'A', etc.

☐ For **Non JobNet jobs:**

- Job ID naming conventions can be found in the [PHD User Guide](#)
- Job Types: Maintenance, TWA, Warranty, Direct Forces Work, Historic, & Permit

(2) *Select:*
'Yes' for JobNet Job
'No' for Non JobNet Job

JOB DETAILS SCREEN

❑ JobNet job:

- *Auto Generated:* Work Type Code & Fix Life
- *User Entered:* Special Project Type, **Open to Traffic Date***

Job Details	
JobNet Job ID	: 201403
Work Type Code	: 164 - Asphalt Reconstruction
Fix Life	: 18 Year(s)
Special Project Type [Choose upto two types]	<input type="checkbox"/> CPM Emerging Technology Funded <input type="checkbox"/> Demonstration Project <input type="checkbox"/> National Pavement Studies <input type="checkbox"/> State Pavement Studies
* Open to Traffic Date [This is the date when all lanes are open to the public traffic. For multi-year projects, please estimate it for now and use a placeholder to come back and change it later.]	
:	<input type="text"/> <input type="text"/> <input type="text"/> [mm/dd/yyyy]

❑ Non JobNet job:

- *User select:* **Work Type Code***, Special Project Type, **Job Type***, **Open to Traffic Date***, & Fix Life

Job Details	
Non JobNet Job ID	: M458785
* Non JobNet Job Type	: <input type="text" value="Select Non JobNet Job Type"/>
* Work Type Code	: <input type="text" value="None"/>
* Fix Life	: <input type="text" value="0"/> Year(s) Fix Life Guide
Special Project Type [Choose upto two types]	<input type="checkbox"/> CPM Emerging Technology Funded <input type="checkbox"/> Demonstration Project <input type="checkbox"/> National Pavement Studies <input type="checkbox"/> State Pavement Studies
* Open to Traffic Date [This is the date when all lanes are open to the public traffic. For multi-year projects, please estimate it for now and use a placeholder to come back and change it later.]	
:	<input type="text"/> <input type="text"/> <input type="text"/> [mm/dd/yyyy]

SIMPLIFIED CPM (FOR MAP OR Non MAP JOBS)

- ❑ Job must be a **CPM (Capital Preventive Maintenance)** project with Work Type Code **WTC 400 - 499**
- ❑ Reduces the amount of data entry:
 - No entry of individual lanes
 - Only enter segment layer information
 - Does not require segment changes based on lane or shoulder changes
- ❑ **Note:** this can only be selected once and will remain in the selected format

Job Details

JobNet Job ID : 217463

Work Type Code : 456 - Asphalt Crack Treatment

Fix Life : 3 Year(s)

* Use SIMPLIFIED CPM format for data entry? [only use when all lanes and work is the same] : ☒ Yes ☐ No

Special Project Type [Choose upto two types] :

- ☐ CPM Emerging Technology Funded
- ☐ Demonstration Project
- ☐ National Pavement Studies
- ☐ State Pavement Studies

* Open to Traffic Date [This is the date when all lanes are open to the public traffic. For multi-year projects, please estimate it for now and use a placeholder to come back and change it later.] : [mm/dd/yyyy]

WTC
400-499

Simplified CPM Check Box
Appears only if WTC is 400-499

SIMPLIFIED CPM (Cont.)

❑ Cannot use Simplified CPM format if the following applies to the job:

- Does not have **WTC 400 to 499**
- Lanes have different paved or placed work
- Has **HMA paving**, which includes these layers:
 - HMA Base Course
 - HMA Leveling Course
 - HMA Top Course
 - HMA Wedge Course
 - HMA Ultra-Thin Overlay
 - Crack Relief Interlayer/DRM
 - Paver Placed Surface Seal

ROAD SEGMENT LIST SCREEN

❑ This screen appears after creating a job

❑ If it is a **JobNet job**, then segments will be automatically populated

- Likely still requires editing and adding segments

❑ If it is a **Non JobNet job**, then the segments need to be created

The screenshot displays the 'Road Segment List Screen' for a job titled '201403 / 164 - Asphalt Reconstruction'. The interface includes several key sections and buttons:

- Job Details:** Located at the top, with an 'Edit Job Details' button.
- PR Segment List:** A table listing segments with columns: #, PR Number, PR(v), BMP, EMP, Route, Direction, Framework Status, and Data Status. It contains three rows of segment data.
- Buttons:** 'Segment Details', 'Copy Segment Details', 'Create Segment', 'Delete Segment(s)', and 'View Map' are located below the segment list.
- Change PR Segment Mile Points:** A section with a table for editing segment mile points (BMP and EMP).
- Create PR Sub Segments:** A section for creating sub-segments, including a 'No. of Sub Segments' field and a 'Create Sub Segments' button.
- Project Comments:** A text area for project comments (max 250 characters).
- Buttons:** 'Back', 'Finalize Job', 'Save Job as Draft', and 'Cancel' are at the bottom.
- Project Summary:** A button located at the bottom right of the screen.

Annotations with red arrows point to the following elements:

- Edit Job Details:** Points to the 'Edit Job Details' button.
- Copy Segment Details:** Points to the 'Copy Segment Details' button.
- Create or Delete Segments:** Points to the 'Create Segment' and 'Delete Segment(s)' buttons.
- View Map:** Points to the 'View Map' button.
- Create Sub Segments:** Points to the 'Create Sub Segments' button.
- Edit Segment Details:** Points to the 'Segment Details' button.
- Layers Library:** Points to the 'Layers Library Overview' section.
- Change Milepoints:** Points to the 'Change PR Segment Mile Points' section.
- Project Comment Box:** Points to the 'Project Comments' text area.
- Project Summary:** Points to the 'Project Summary' button.

EDIT JOB DETAILS

- ❑ Returns to the Job Details screen
 - For corrections/changes or review
 - **Note:** *Simplified CPM* cannot be changed once job is created. Contact an Administrator if this needs to be changed.

Job Details

JobNet Job ID : 201403

Work Type Code : 164 - Asphalt Reconstruction

Fix Life : 18 Year(s)

☐ CPM Emerging Technology Funded

☐ Demonstration Project

☐ National Pavement Studies

☐ State Pavement Studies

* Open to Traffic Date

[This is the date when all lanes are open to the public traffic. For multi-year projects, please estimate it for now and use a placeholder to come back and change it later.]

01/31/2023

[mm/dd/yyyy]

Job Details [201403 / 164 - Asphalt Reconstruction] [Show] ▲

Edit Job Details

PR Segment List [Hide] ▼

	#	PR Number	PR(v)	BMP	EMP	Route	Direction	Framework Status	Data Status
<input checked="" type="radio"/>	1	3090836	23	0	0.068	M-25	NB	Active	Draft
<input type="radio"/>	2	3090836	23	0.068	0.236	M-25	NB	Active	Draft
<input type="radio"/>	3	3090836	23	0.236	0.29	M-25	NB	Active	Draft

Segment Details

Copy Segment Details

Create Segment

Delete Segment(s)

View Map

Layers Library Overview

Change PR Segment Mile Points

#	PR Number	BMP	EMP
1	3090836	<input type="text" value="0"/>	<input type="text" value="0.068"/>

Apply Milepoint Changes

Create PR Sub Segments

No. of Sub Segments : [At least 2]

Create Sub Segments

Project Comments
[max 250 characters]

Back

Finalize Job

Save Job as Draft

Cancel

Project Summary

CHANGE PR SEGMENT MILEPOINTS

➤ Select the segment radio button (1)

➤ Change the BMP and/or EMP (2)

➤ Click 'Apply Milepoint Changes' (3)

❖ An *error* will occur if a milepoint is added that exceeds the PR length

Job Details [201403 / 164 - Asphalt Reconstruction] [Show] ▲

Edit Job Details

PR Segment List [Hide] ▼

	#	PR Number	PR(v)	BMP	EMP	Route	Direction	Framework Status	Data Status
<input checked="" type="radio"/>	1	3090836	23	0	0.068	M-25	NB	Active	Draft
<input type="radio"/>	2	3090836	23	0.068	0.236	M-25	NB	Active	Draft
<input type="radio"/>	3	3090836	23	0.236	0.29	M-25	NB	Active	Draft

Segment Details Copy Segment Details Create Segment Delete Segment(s) View Map

Layers Library Overview

Change PR Segment Mile Points

#	PR Number	BMP	EMP
1	3090836	<input type="text" value="0"/>	<input type="text" value="0.068"/>

Apply Milepoint Changes

Create PR Sub Segments

No. of Sub Segments : [At least 2]

Create Sub Segments

Project Comments

[max 250 characters]

Back Finalize Job Save Job as Draft Cancel

Project Summary

CREATE PR SUBSEGMENTS

- Select the segment radio button (1)
- Enter the number of sub segments (2)
- Click 'Create Sub Segments' (3)
- Enter BMP & EMP for each new sub segment (4)
- Click 'Create Sub Segments' (5)
 - ❖ An error will occur if milepoints overlap or exceed the PR length

Create Sub Segments screen

Road Segment [Job # - 201403 / PR # - 3090836 / MP : 0 ... 0.587] [Show] ▲

PR Sub Segment Summary				
#	PR Number	BMP	EMP	
<input type="checkbox"/> 1	3090836	0	0.125	
<input type="checkbox"/> 2	3090836	0.125	0.369	
<input type="checkbox"/> 3	3090836	0.369	0.587	

Delete

Back Create Sub Segments (5)

Add an additional PR Sub Segment

PR BMP : PR EMP :

Add

Create Sub Segments

Job Details [201403 / 164 - Asphalt Reconstruction] [Show] ▲

Edit Job Details

PR Segment List [Hide] ▼									
(1)	#	PR Number	PR(v)	BMP	EMP	Route	Direction	Framework Status	Data Status
<input checked="" type="radio"/>	1	3090836	23	0	0.587	M-25	NB	Active	Draft
<input type="radio"/>	2	3090836	23	0.587	0.852	M-25	NB	Active	Draft
<input type="radio"/>	3	3090836	23	0.852	1.292	M-25	NB	Active	Draft

Segment Details Copy Segment Details Create Segment Delete Segment(s) View Map

Layers Library Overview

Change PR Segment Mile Points			
#	PR Number	BMP	EMP
1	3090836	0	0.587

Apply Milepoint Changes

Create PR Sub Segments	
No. of Sub Segments	[At least 2]
<input type="text"/>	

Create Sub Segments (3) (2)

Project Comments [max 250 characters]

Back Finalize Job Save Job as Draft Cancel

Project Summary

CREATE SEGMENT

- Click 'Create Segment' (1)
- Enter PR Number, BMP, & EMP (2)
- Click 'Create' or 'Create and Add One More' (3)
 - ❖ An error will occur if milepoints exceed the PR length or PR is located outside of user Location Assignment

Create PR Segment screen

* = Required Fields

(2)

Create PR Segment [Job # - 201403 1]

Latest PR Version	PR Number*	BMP*	EMP*
23	961905	4.123	4.499

(3)

Create Create and Add One More Back

Job Details [201403 / 164 - Asphalt Reconstruction] [Show] ▲

Edit Job Details

PR Segment List [Hide] ▼

#	PR Number	PR(v)	BMP	EMP	Route	Direction	Framework Status	Data Status	
<input checked="" type="radio"/>	1	3090836	23	0	0.125	M-25	NB	Active	Draft
<input type="radio"/>	2	3090836	23	0.125	0.369	M-25	NB	Active	Draft
<input type="radio"/>	3	3090836	23	0.369	0.587	M-25	NB	Active	Draft
<input type="radio"/>	4	3090836	23	0.587	0.852	M-25	NB	Active	Draft
<input type="radio"/>	5	3090836	23	0.852	1.292	M-25	NB	Active	Draft

Segment Details Copy Segment Details Create Segment Delete Segment(s) View Map

Layers Library Overview

Change PR Segment Mile Points

#	PR Number	BMP	EMP
1	3090836	0	0.125

Apply Milepoint Changes

Create PR Sub Segments

No. of Sub Segments : [] [At least 2]

Create Sub Segments

Project Comments [max 250 characters]

Back Finalize Job Save Job as Draft Cancel

Project Summary

CREATE SEGMENT

- ❑ If the project has a new ramp, roundabout, or alignment changes
- ❑ The user might not be able to enter/create the segment (with a new PR number or changed MPs)
- ❑ To enter such segment(s):
 - Select 'Future'
 - Enter PR Number, BMP, & EMP
 - Click 'Create'

* = Required Fields

Create PR Segment [Job # - 201403]

Latest PR Version	PR Number *	BMP *	EMP *
Future			
23			
Future			

Create Create and Add One More Back

DELETE SEGMENT

- Click 'Delete Segment(s)' (1)
- Check the segment(s) to delete (2)
- Click 'Confirm' (or Back to cancel) (3)

Delete PR Segment screen

Select segment(s) to delete.

PR Segment Details [Job # - 201403]

<input type="checkbox"/>	#	PR Number	PR(v)	BMP	EMP	Route	Direction	Framework Status	Data Status
<input type="checkbox"/>	1	961905	23	4.123	4.465	M-19	2 Way	Active	Draft
<input checked="" type="checkbox"/>	2	961905	23	4.465	4.499	M-19	2 Way	Active	Draft
<input type="checkbox"/>	3	3090836	23	0	0.125	M-25	NB	Active	Draft
<input type="checkbox"/>	4	3090836	23	0.125	0.369	M-25	NB	Active	Draft
<input type="checkbox"/>	5	3090836	23	0.369	0.587	M-25	NB	Active	Draft
<input type="checkbox"/>	6	3090836	23	0.587	0.852	M-25	NB	Active	Draft
<input type="checkbox"/>	7	3090836	23	0.852	1.292	M-25	NB	Active	Draft

Back Confirm

Job Details [201403 / 164 - Asphalt Reconstruction] [Show] ▲

Edit Job Details

PR Segment List [Hide] ▼

	#	PR Number	PR(v)	BMP	EMP	Route	Direction	Framework Status	Data Status
<input checked="" type="radio"/>	1	961905	23	4.123	4.465	M-19	2 Way	Active	Draft
<input type="radio"/>	2	961905	23	4.465	4.499	M-19	2 Way	Active	Draft
<input type="radio"/>	3	3090836	23	0	0.125	M-25	NB	Active	Draft
<input type="radio"/>	4	3090836	23	0.125	0.369	M-25	NB	Active	Draft
<input type="radio"/>	5	3090836	23	0.369	0.587	M-25	NB	Active	Draft
<input type="radio"/>	6	3090836	23	0.587	0.852	M-25	NB	Active	Draft
<input type="radio"/>	7	3090836	23	0.852	1.292	M-25	NB	Active	Draft

Segment Details Copy Segment Details Create Segment Delete Segment(s) View Map

Layers Library Overview

Change PR Segment Mile Points

#	PR Number	BMP	EMP
1	961905	4.123	4.465

Apply Milepoint Changes

Create PR Sub Segments

No. of Sub Segments : [] [At least 2]

Create Sub Segments

Project Comments [max 250 characters]

Back Finalize Job Save Job as Draft Cancel

Project Summary

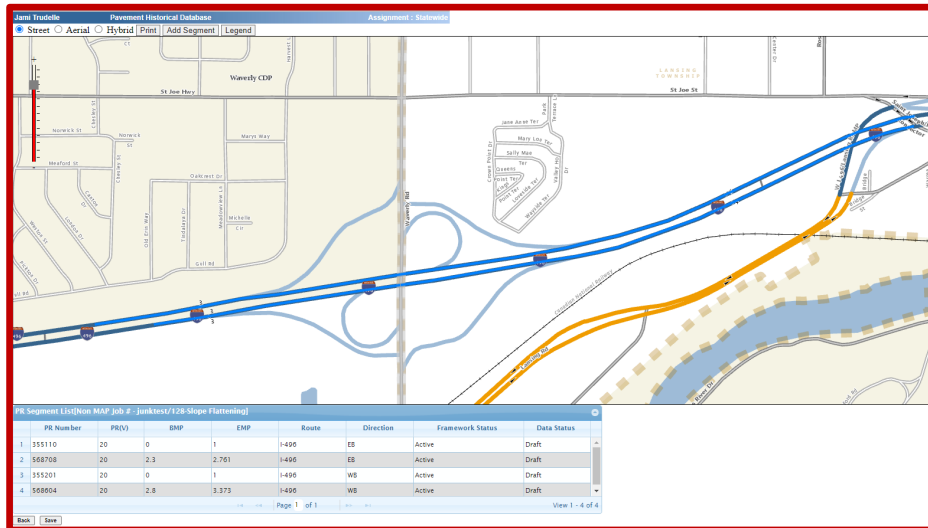
VIEW MAP

❑ This function shows all Road Segment List segments in a map

➤ Click 'View Map'

- The Map screen will appear
- Can add new segments, delete segments, change segment milepoints, view/print segments in map

Map screen



Job Details [201403 / 164 - Asphalt Reconstruction] [Show] ▲

Edit Job Details

PR Segment List [Hide] ▼

#	PR Number	PR(v)	BMP	EMP	Route	Direction	Framework Status	Data Status
<input checked="" type="radio"/> 1	961905	23	4.123	4.465	M-19	2 Way	Active	Draft
<input type="radio"/> 2	3090836	23	0	0.125	M-25	NB	Active	Draft
<input type="radio"/> 3	3090836	23	0.125	0.369	M-25	NB	Active	Draft
<input type="radio"/> 4	3090836	23	0.369	0.587	M-25	NB	Active	Draft
<input type="radio"/> 5	3090836	23	0.587	0.852	M-25	NB	Active	Draft
<input type="radio"/> 6	3090836	23	0.852	1.292	M-25	NB	Active	Draft

Segment Details Copy Segment Details Create Segment Delete Segment View Map

Layers Library Overview

Change PR Segment Mile Points

#	PR Number	BMP	EMP
1	961905	4.123	4.465

Apply Milepoint Changes

Create PR Sub Segments

No. of Sub Segments : [] [At least 2]

Create Sub Segments

Project Comments [max 250 characters]

Back Finalize Job Save Job as Draft Cancel

Project Summary

VIEW MAP: MAP SCREEN

(1) Map View Type

(2) Map Tools

(3) Map

(4) PR Segment List

(5) Back & Save

(1) (2)

(3)

(4)

(5)

The screenshot displays the MDOT View Map interface. At the top, there is a navigation bar with the title 'VIEW MAP: MAP SCREEN' and a sub-header 'Assignment : Statewide'. Below this, a toolbar contains options for 'Street', 'Aerial', and 'Hybrid' map views, along with buttons for 'Print', 'Add Segment', and 'Legend'. The main map area shows a road segment with a blue line representing the road and a yellow background. A red box highlights the map area. Below the map, there is a table titled 'PR Segment List' with columns for PR Number, PR(V), BMP, EMP, Route, Direction, Framework Status, and Data Status. The table contains four rows of data. At the bottom of the screen, there are 'Back' and 'Save' buttons.

	PR Number	PR(V)	BMP	EMP	Route	Direction	Framework Status	Data Status	
(4)	1	962706	16	10.505	10.789	I-69	E	Active	Draft
	2	962706	16	10.789	11.123	I-69	E	Active	Draft
	3	962706	16	11.123	11.554	I-69	E	Active	Draft
(5)	4	961905	16	4.465	4.499	M-19	N/S	Active	Draft

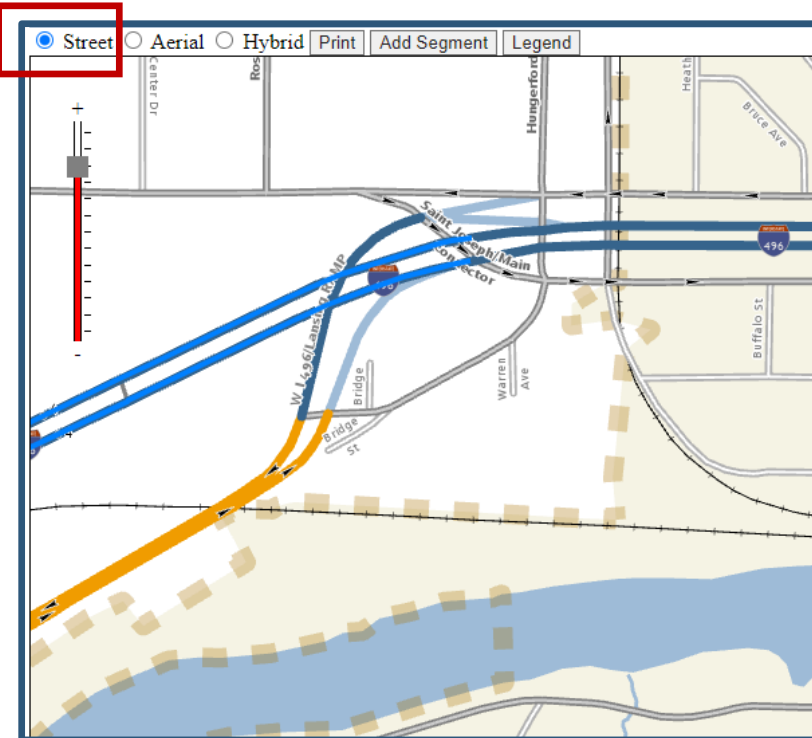
Page 1 of 1 View 1 - 5 of 5

VIEW MAP: MAP SCREEN

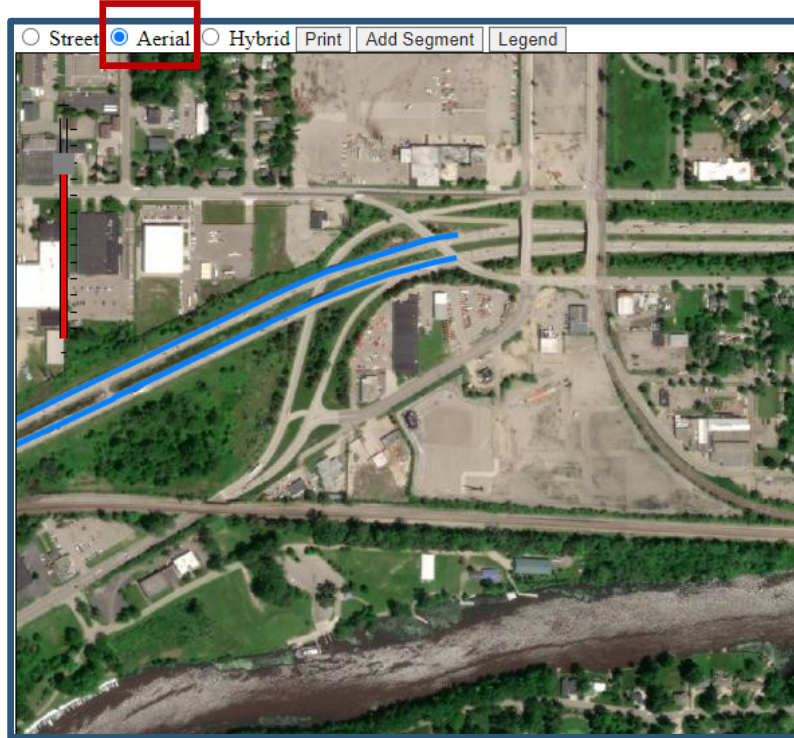
❑ Map View Types

- Select the view type radio button to change the map background image

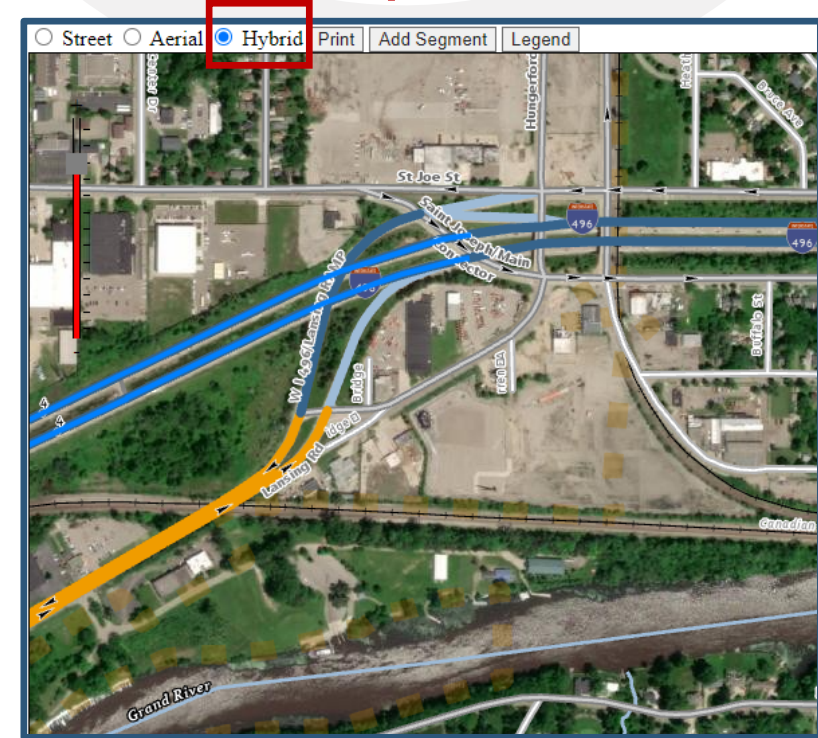
Street



Aerial



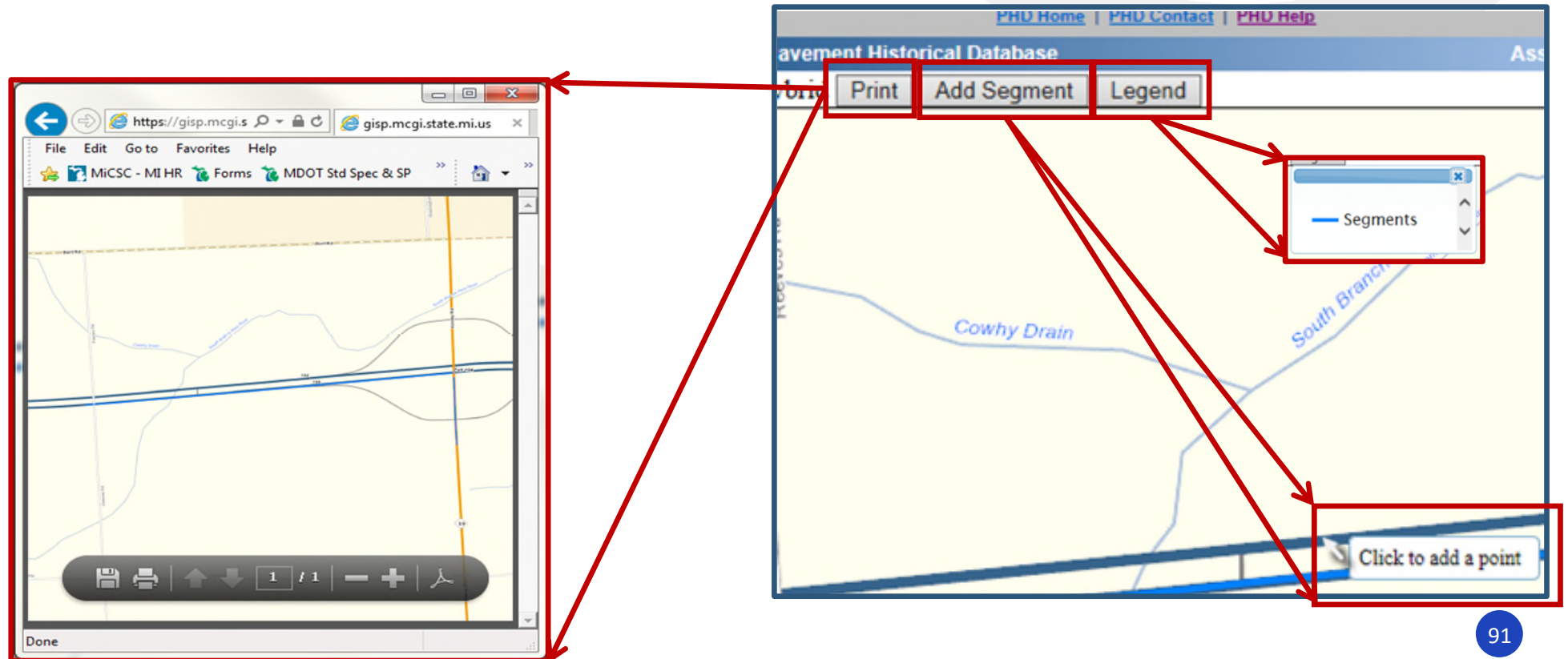
Hybrid



VIEW MAP: MAP SCREEN

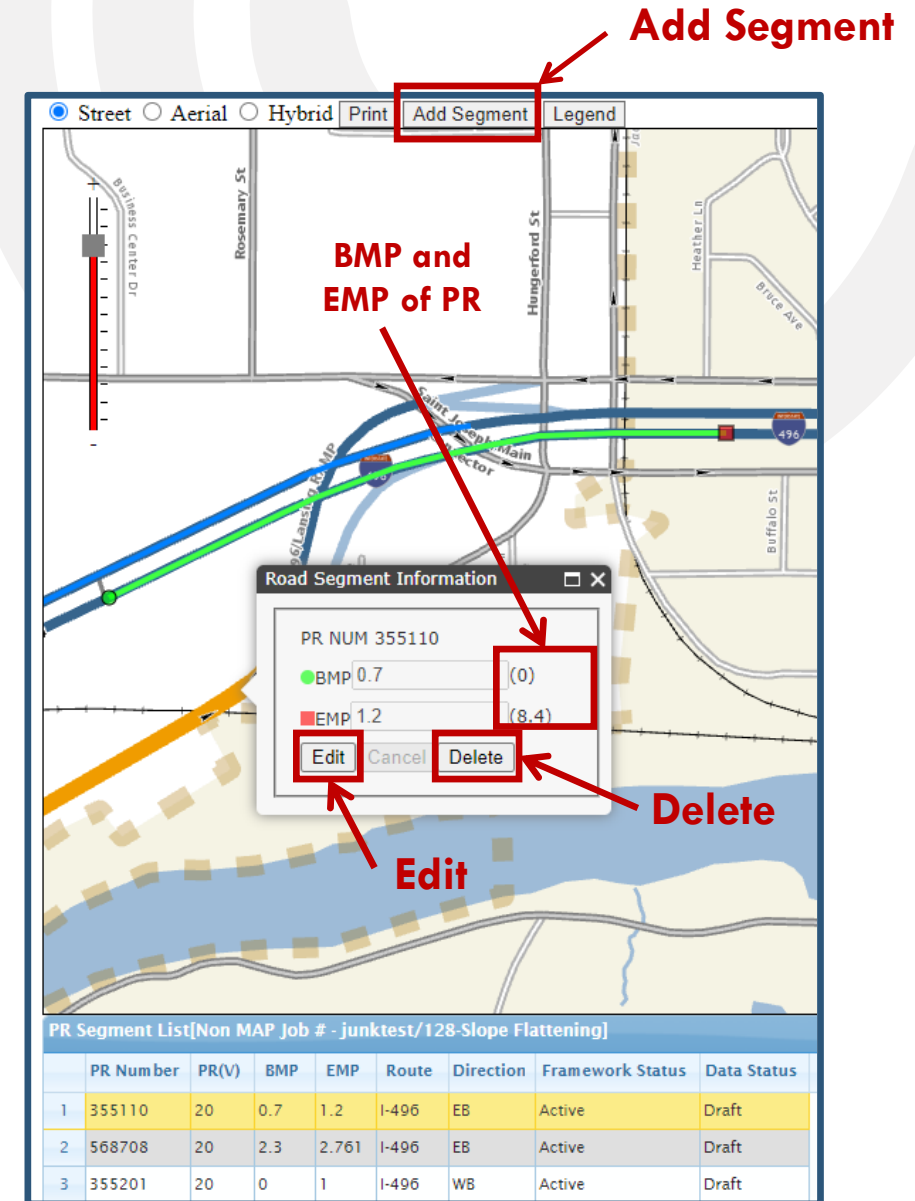
❑ Map Tools

- Click **Print** to show map image with the segments in a new PDF pop-up window
 - May take 20-30 seconds to load the first print. Following prints should be faster.
- Click **Add Segment** to add new segments to the PHD job
 - Select the location within the map to add segment. Repeat to add new segments.
- Click **Legend** to view the meanings of the different colors within the map



VIEW MAP: ADD SEGMENT

- ❑ Move the map view with click and drag
- ❑ Zoom the view with mouse wheel or click the + or – on the scale
- ❑ Add segments in map:
 - Click *'Add Segment'*,
 - Click on the segment in the map,
 - The **entire PR length** will turn blue and will **be added**
- ❑ View & edit milepoints:
 - Select a segment using the map or table,
 - The segment turns green and the Road Segment Information box appears,
 - Click *'Edit'* and change the BMP and/or EMP,
 - Click *'Save'* in the box to confirm or click *'Cancel'* in the box to undo
- ❑ Delete segments:
 - Select a segment in the map or table,
 - The Road Segment Information box will appear,
 - Click *'Delete'* in the box or click *'Cancel'* in the box to undo



Add Segment

BMP and EMP of PR

Edit

Delete

Cancel

Road Segment Information

PR NUM 355110

BMP 0.7 (0)

EMP 1.2 (8.4)

PR Segment List[Non MAP Job # - junktest/128-Slope Flattening]

	PR Number	PR(V)	BMP	EMP	Route	Direction	Framework Status	Data Status
1	355110	20	0.7	1.2	I-496	EB	Active	Draft
2	568708	20	2.3	2.761	I-496	EB	Active	Draft
3	355201	20	0	1	I-496	WB	Active	Draft

VIEW MAP: SEGMENT LIST

❑ PR Segment List Table

- Shows the segments in the Road Segment List screen
 - ❖ **Exception:** If changes are made, this table will not match if clicking *Back* before clicking *Save*
- Click a column header to sort the table, (a triangle will identify the active sort)
- Click a segment row in the table to zoom to it and show the Road Segment Info box
- Hide the table by clicking the triangle in the upper right corner

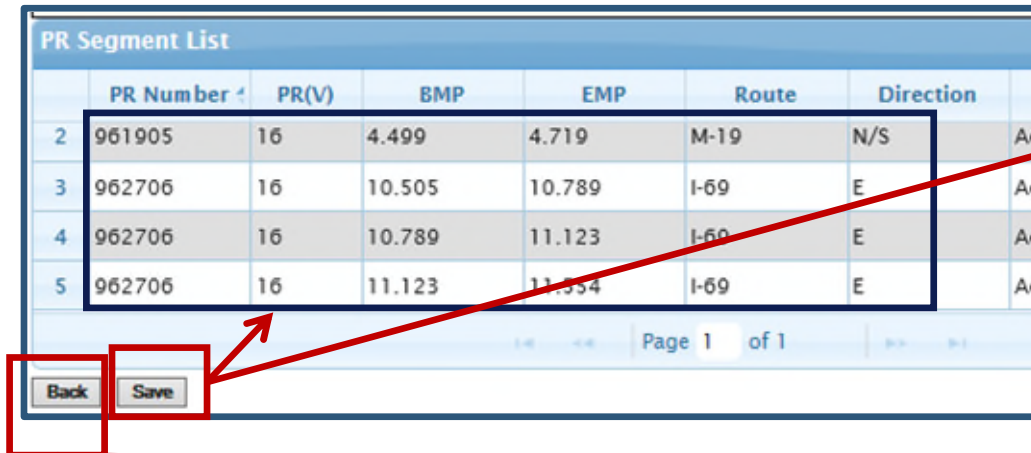
The screenshot displays the MDOT software interface. At the top, a map shows a road network with a highlighted segment in orange. A 'Road Segment Information' dialog box is open, showing details for PR NUM 355110, including BMP 0.7 (0) and EMP 1.2 (8.4), with buttons for Edit, Cancel, and Delete. Below the map, a table titled 'PR Segment List[Non MAP Job # - junktest/128-Slope Flattening]' is shown. The table has columns for PR Number, PR(V), BMP, EMP, Route, Direction, Framework Status, and Data Status. The first row is highlighted in yellow and is enclosed in a red box.

	PR Number	PR(V)	BMP	EMP	Route	Direction	Framework Status	Data Status
1	355110	20	0.7	1.2	I-496	EB	Active	Draft
2	355201	20	0	1	I-496	WB	Active	Draft
3	568604	20	2.8	3.373	I-496	WB	Active	Draft
4	568708	20	2.3	2.761	I-496	EB	Active	Draft

VIEW MAP: MAP SCREEN

❑ Save & Back

- Click '**Save**' to save all added segments, deleted segments, and/or milepoint changes made in the map
 - **Note:** If there are any overlapping segments, a warning message will appear and **not allow the save**. Segments that **overlap must be manually changed**.
- Click '**Back**' to return to the Road Segment List screen
 - **Important:** Click Save before clicking Back to save changes
 - **Note:** To undo all changes, click Back and do not click Save

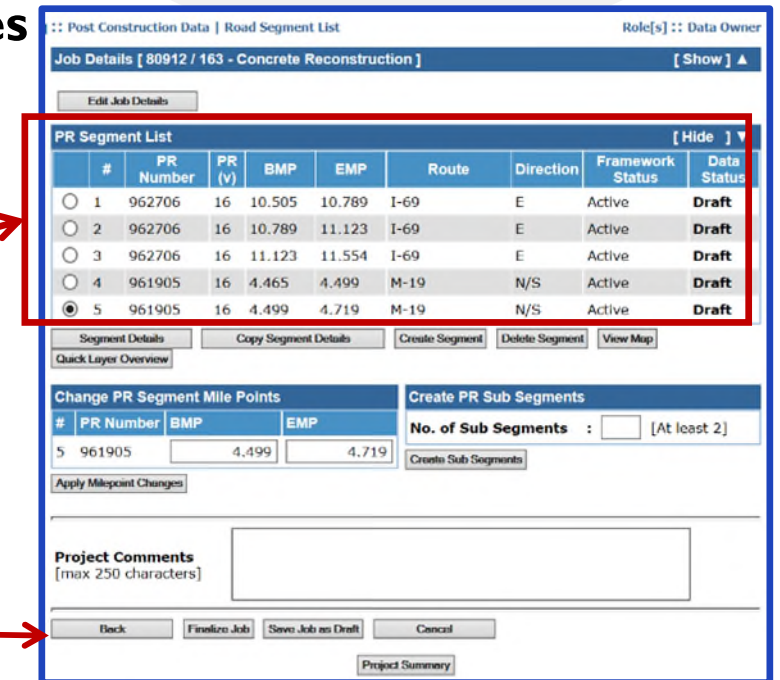


PR Segment List

	PR Number	PR(V)	BMP	EMP	Route	Direction	
2	961905	16	4.499	4.719	M-19	N/S	Ac
3	962706	16	10.505	10.789	I-69	E	Ac
4	962706	16	10.789	11.123	I-69	E	Ac
5	962706	16	11.123	11.554	I-69	E	Ac

Page 1 of 1

Back Save



Post Construction Data | Road Segment List

Job Details [80912 / 163 - Concrete Reconstruction]

PR Segment List

	#	PR Number	PR (V)	BMP	EMP	Route	Direction	Framework Status	Data Status
<input type="radio"/>	1	962706	16	10.505	10.789	I-69	E	Active	Draft
<input type="radio"/>	2	962706	16	10.789	11.123	I-69	E	Active	Draft
<input type="radio"/>	3	962706	16	11.123	11.554	I-69	E	Active	Draft
<input type="radio"/>	4	961905	16	4.465	4.499	M-19	N/S	Active	Draft
<input checked="" type="radio"/>	5	961905	16	4.499	4.719	M-19	N/S	Active	Draft

Segment Details Copy Segment Details Create Segment Delete Segment View Map

Quick Layer Overview

Change PR Segment Mile Points

#	PR Number	BMP	EMP
5	961905	4.499	4.719

Apply Milepoint Changes

Create PR Sub Segments

No. of Sub Segments : [] [At least 2]

Create Sub Segments

Project Comments [max 250 characters]

Back Finalize Job Save Job as Draft Cancel

Project Summary

VIEW MAP: MAP SCREEN

❑ Additional Notes:

- Segments with **older framework will have warning message and may not be visible in map**
 - Older framework segments can exist if multi-year projects started in the previous year, or PHD jobs that were started early in the year, before new framework was available – *(old framework segments can still be used & saved).*
 - The map uses the most current framework version
- **If older framework segments are in the PHD job, warnings appear:**
 - At the top of the Road Segment List screen
 - In map screen if selected from the PR Segment List table and it cannot be viewed

Post Construction Data | Road Segment List

Role[s] :: Data Owner

Job Details [80920 / 160 - Recnst Exist, No Widen] [Show] ▲

⚠ **WARNING: This PHD job includes segment(s) with older framework that may not be visible and/or edited in the map screen.**

Edit Job Details

PR Segment List [Hide] ▼

#	PR Number	PR (v)	BMP	EMP	Route	Direction	Framework Status	Data Status
---	-----------	--------	-----	-----	-------	-----------	------------------	-------------

Message from webpage

⚠ This segment cannot be viewed in the map because it has an older PR version that is incompatible with the current version geometry data. To view this segment, return to the Road Segment List screen and re-add this segment; (make sure to also copy or re-add any details or attribute information before deletion of the original segment)

OK

EDIT SEGMENT DETAILS

- Select the segment radio button (1)
- Click 'Segment Details' (2)
 - The Segment Overview screen will appear

Job Details [201403 / 164 - Asphalt Reconstruction] [Show] ▲

Edit Job Details

PR Segment List [Hide] ▼

	#	PR Number	PR(v)	BMP	EMP	Route	Direction	Framework Status	Data Status	
(1)	<input checked="" type="radio"/>	1	961905	23	4.123	4.465	M-19	2-Way	Active	Draft
	<input type="radio"/>	2	3090836	23	0	0.125	M-25	NB	Active	Draft
	<input type="radio"/>	3	3090836	23	0.125	0.369	M-25	NB	Active	Draft
	<input type="radio"/>	4	3090836	23	0.369	0.587	M-25	NB	Active	Draft
	<input type="radio"/>	5	3090836	23	0.587	0.852	M-25	NB	Active	Draft
(2)	<input type="radio"/>	6	3090836	23	0.852	1.292	M-25	NB	Active	Draft

Segment Details Copy Segment Details Create Segment Delete Segment(s) View Map

Layers Library Overview

Change PR Segment Mile Points

#	PR Number	BMP	EMP
1	961905	4.123	4.465

Create PR Sub Segments

No. of Sub Segments : [] [At least 2]

Create Sub Segments

Apply Milepoint Changes

Project Comments [max 250 characters]

Back Finalize Job Save Job as Draft Cancel

Project Summary

Post Construction Data | Segment Overview Role[s] :: Data Owner , Data Entry , System Administrator

Segment Details [Job # - 200711 / PR # - 3130113 / MP : 0 ... 0.162] [Show] ▲

Segment Shoulder Overview

	Left	Right
Work Done	Yes	Yes
Status	Draft	Draft

Segment Lane(s) Overview

Lane #	Work Done	Status
4.0	Yes	Draft
3.0	Yes	Draft
2.0	Yes	Draft
1.0	Yes	Draft

Lane Details

Segment Curb & Gutter Overview

	Left	Right
Work Done	No	No
Status		

Shoulder, Curb & Gutter Details

Median Overview

* Median Type : Undivided ▼

Segment Comments [max 250 characters]

Back Save Segment Save Segment As Draft Cancel

Segment Summary

EDIT SEGMENT DETAILS: SEGMENT OVERVIEW SCREEN

- Entry of work on lanes, shoulder, and/or curb and gutter
- Data entered here is only for the current selected segment (not entire project)

The screenshot shows the 'Segment Overview' screen for Job # - 200711 / PR # - 3130113 / MP : 0 ... 0.162. The screen is divided into several sections:

- Segment Details [Job # - 200711 / PR # - 3130113 / MP : 0 ... 0.162]** [Show] ▲
- Segment Shoulder Overview**

	Left	Right
Work Done	Yes	Yes
Status	Draft	Draft
- Segment Lane(s) Overview**

Lane #	Work Done	Status
4.0	Yes	Draft
3.0	Yes	Draft
2.0	Yes	Draft
1.0	Yes	Draft
- Segment Curb & Gutter Overview**

	Left	Right
Work Done	No	No
Status		
- Median Overview**

* Median Type : Undivided
- Segment Comments** [max 250 characters]
- Buttons:** Back, Save Segment, Save Segment As Draft, Cancel, Segment Summary

Annotations with red arrows point to the following elements:

- Edit Shoulder, Curb & Gutter Details** points to the 'Shoulder, Curb & Gutter Details' button.
- Median Overview Box** points to the 'Median Overview' section.
- Segment Comment Box** points to the 'Segment Comments' text area.
- Edit Lane Details** points to the 'Lane Details' button.
- Segment Summary** points to the 'Segment Summary' button.

SEGMENT OVERVIEW SCREEN

Pre-population of Segment Details Example: **JN I I 9085, I-475 Reconstruct**

❑ Segment Info for PR 1497903, MP 11.310 – 11.342

■ Pre-populated:

- **Lanes** = 4 lanes (1.0, 2.0, 3.0, 4.0)
- **Shoulders** = Left & Right Side
- **Median Type** = Concrete Barrier
- **Median Width** = 26'

■ Never Pre-populated:

- **Curb & Gutter**
 - Must Add and Modify manually

Post Construction Data | Segment Overview

Role[s] :: Data Owner

Segment Details [PR # - 1497903 / MP : 11.31 ... 11.342] [Show] ▲

Segment Shoulder Overview		
	Left	Right
Work Done	Yes	Yes
Status	Draft	Draft

Segment Lane(s) Overview		
Lane #	Work Done	Status
4.0	Yes	Draft
3.0	Yes	Draft
2.0	Yes	Draft
1.0	Yes	Draft

Segment Curb & Gutter Overview		
	Left	Right
Work Done	No	No
Status		

Shoulder, Curb & Gutter Details

Median Overview	
* Median Type :	Concrete Barrier
* Median Width :	26 ft

Segment Comments [max 250 characters]

Back Save Segment Save Segment As Draft Cancel

Segment Summary

SEGMENT OVERVIEW SCREEN: SIMPLIFIED CPM

Simplified CPM

Post Construction Data | Segment Overview Role[s] :: Data Owner, System Administrator

Segment Details [PR # - 768604 / MP : 0 ... 1.293] [Show] ▲

Segment Shoulder Overview		
	Left	Right
Work Done	No	No
Status		

Segment Curb & Gutter Overview		
	Left	Right
Work Done	No	No
Status		

Segment Sections		
#	Layer Name	Data Entry Status

Move Up Move Down Remove

Select New Layer

Layer : Select a Layer

Add Layer

Shoulder, Curb & Gutter Details

* Year [Paved/Placed] : [] [yyyy]

Segment Comments [max 250 characters]

Back Save Segment Save Segment As Draft Cancel

Segment Summary

Add/Edit
Segment Layers
(No Lane Details)

Edit Shoulder,
Curb & Gutter Details

Year the work was
Paved/Placed

Median Overview

Segment Comment

Segment Summary

- Simplified CPM
- Full Job
- Both

Standard Full Job Entry

Post Construction Data | Segment Overview Role[s] :: Data Owner, Data Entry, System Administrator

Segment Details [Job # - 200711 / PR # - 3130113 / MP : 0 ... 0.162] [Show] ▲

Segment Shoulder Overview		
	Left	Right
Work Done	Yes	Yes
Status	Draft	Draft

Segment Lane(s) Overview		
Lane #	Work Done	Status
4.0	Yes	Draft
3.0	Yes	Draft
2.0	Yes	Draft
1.0	Yes	Draft

Segment Curb & Gutter Overview		
	Left	Right
Work Done	No	No
Status		

Lane Details

Shoulder, Curb & Gutter Details

Median Overview

* Median Type : Undivided

Segment Comments [max 250 characters]

Back Save Segment Save Segment As Draft Cancel

Segment Summary

Edit Lane Details

SEGMENT OVERVIEW SCREEN: MEDIAN OVERVIEW

- Select *Median Type* from the drop-down list
- Enter *Median Width* (ft) in the box
 - If 'Other' is selected, enter a type that is not in the Median Type List
 - If 'Undivided' is selected, no Median Width

The diagram illustrates the 'Median Overview' section of the Segment Overview screen. It shows four different states of the form, each highlighted with a red box and connected by arrows to a central 'Median Overview' form.

Central Form: Median Overview

- * Median Type : Select a Median (dropdown menu)
- * Median Width : Concrete Barrier, Guardrail, Cable Guardrail, Raised Island with Curb, Thick impenetrable Vegetation, Graded with ditch, Flat (paved and unpaved), Other
- Segment Comments [max 250 characters]

Callout Box 1 (Top Left): Median Type : Undivided

Callout Box 2 (Top Right): Median Type : Select a Median (dropdown menu), Median Width : [] ft

Callout Box 3 (Bottom Left): Median Type : Graded with ditch, Median Width : 30 ft

Callout Box 4 (Bottom Right): Median Type : Other, Other : Mountainous, Median Width : [] ft

Main Screen Overview:

- Segment Shoulder Overview**

	Left	Right
Work Done	No	No
Status		
- Segment Lane(s) Overview**

Lane #	Work Done	Status
No Lanes Defined		
- Segment Curb & Gutter Overview**

	Left	Right
Work Done	No	No
Status		
- Median Overview**
 - * Median Type : Select a Median (dropdown menu)
 - * Median Width : [] ft
- Segment Comments** [max 250 characters]
- Buttons: Back, Save Segment, Save Segment As Draft, Cancel
- Segment Summary

SEGMENT OVERVIEW SCREEN: LANE DETAILS

- Click 'Lane Details'
- The Lane Summary screen will appear

Post Construction Data | Segment Overview Role[s] :: Data Owner, Data Entry, System Administrator

Segment Details [Job # - 200711 / PR # - 3130113 / MP : 0 ... 0.162] [Show] ▲

Segment Shoulder Overview		
	Left	Right
Work Done	Yes	Yes
Status	Draft	Draft

Segment Lane(s) Overview		
Lane #	Work Done	Status
4.0	Yes	Draft
3.0	Yes	Draft
2.0	Yes	Draft
1.0	Yes	Draft

Segment Curb & Gutter Overview

	Left	Right
Work Done	No	No
Status		

Shoulder, Curb & Gutter Details

Median Overview

* Median Type : Select a Median

* Median Width : 0.0 ft

Segment Comments
[max 250 characters]

Back Save Segment Save Segment As Draft Cancel

Segment Summary

Segment Details [Job # - 201403 / PR # - 961905 / MP : 4.123 ... 4.465] [Show] ▲

Segment Lanes

Select Lane : Lane #2.0 Work Done : ☒ Yes ☐ No

Selected Lane: 2.0

Add Left Lane Add Right Lane Copy Lane Remove Lane

NOTE: Lanes are always numbered right to left facing toward increasing milepoints of the PR segment:
- Lane 1 is the right-most travel lane of the PR segment.
- Increasing lane numbers 2, 3, and greater are lanes left of Lane 1.
- Decreasing lane numbers 0, -1, and less are lanes right of Lane 1.

Lane Details [Lane #2.0]

* Surface Type (pavement cross-section) : HMA over existing Jointed Conc

* Width : 12 ft

* Lane Type : Select Lane Type

* Year [Paved/Placed] : 2023 [yyyy]

* Partial Width Paving? : ☐ Yes ☒ No

Lane Section [Lane # 2.0]

#	Layer Name	Data Entry Status	
			Move Up Move Down Remove

Select New Layer

Layer : Select a Layer Add Layer

Select a Layer from the Layers Library

Layer : Select a Layer Add Layer

* = Required Fields

Back Save Lane Save Lane As Draft Cancel

Copy Lane Layers to Shoulder(s)

EDIT LANE DETAILS

(1) Segment Details Info

(2) Segment Lanes

- Add a lane, remove a lane, copy lane details (from one to another)

(3) Selected Lane

(4) Lane Details

- Enter the details for the selected lane

(5) Lane Section

- Add and edit layers

(6) Back/Save/Cancel/Copy Lane Layers to Shoulder(s)

(1) Segment Details [Job # - 201403 / PR # - 961905 / MP : 4.123 ... 4.465] [Show] ▲

Segment Lanes

Select Lane : Lane #2.0 Work Done : ☒ Yes ☐ No

Add Left Lane Add Right Lane Copy Lane Remove Lane

(3) Selected Lane
2.0

NOTE: Lanes are always numbered right to left facing toward increasing milepoints of the PR segment:
- Lane 1 is the right-most travel lane of the PR segment.
- Increasing lane numbers 2, 3, and greater are lanes left of Lane 1.
- Decreasing lane numbers 0, -1, and less are lanes right of Lane 1.

(2)

Lane Details [Lane #2.0]

* Surface Type (pavement cross-section) : HMA over existing Jointed Conc ▼

* Width : 12 ▼ ft

* Lane Type : Select Lane Type ▼

* Year [Paved/Placed] : 2023 [yyyy]

* Partial Width Paving? : ☐ Yes ☒ No

(4)

Lane Section [Lane # 2.0]

#	Layer Name	Data Entry Status	
			<input type="checkbox"/>

Move Up Move Down Remove

Select New Layer

Layer : Select a Layer ▼

Add Layer

Select a Layer from the Layers Library

Layer : Select a Layer ▼

Add Layer

* = Required Fields

Back Save Lane Save Lane As Draft Cancel

Copy Lane Layers to Shoulder(s)

(5)

(6)

EDIT LANE DETAILS: LANE DETAILS PANE

- Select the *Surface Type* from the drop-down menu
- Select the lane *Width* from the drop-down menu
- Select the *Lane Type* (functional use) from the drop-down menu
- Enter the *Year* the work/material was *Paved or Placed*
- Select 'Yes' if this lane was **Partially Paved* in this job
* refers to final width of paved lane, not part-width construction

Lane Details [Lane #0.0]

* Surface Type : HMA full depth ▼

* Width : 12 ▼ ft

* Lane Type : Right Turn ▼

* Year [Paved/Placed] : 2018 [yyyy]

* Partial Width Paving? : ☐ Yes ☒ No

Select Surf. Type

- HMA full depth
- HMA over existing HMA
- HMA over existing Jointed Conc
- HMA over existing CRCP
- HMA over existing Brick
- JPCP-Jointed Plain Concrete Pvmt
- JRCP-Jointed Reinforced Conc Pvmt
- CRCP-Continuously Reinf Conc Pvmt
- Unbonded Conc Overlay on Exist Conc
- Whitotopping
- Brick
- Other

Select Lane Type

- Buffer Space
- Center Left Turn
- Left & Right Turn
- Left Turn
- Mainline
- Median Turnaround
- Merge
- Off-Ramp
- On-Ramp
- Passing Flare
- Passing Relief
- Right Turn
- Truck Climbing
- Weave

EDIT LANE DETAILS: PARTIAL WIDTH PAVING

- Click 'No': the **Width** entry will indicate the full width the lane was paved.
- Click 'Yes': the **Paving Width** entry will indicate the partial paving width.
- ❖ **Note:** *This does not refer to construction staging part-width paving. This refers to final width of lane paved, regardless of construction staging*

Lane Details [Lane #1.0]

* Surface Type : HMA full depth ▼

* Width : 12 ▼ ft

* Lane Type : Mainline ▼

* Year [Paved/Placed] : 2018 [yyyy]

* Partial Width Paving? : ☒ Yes ☐ No

* Paving Width : 3 ▼ ft

EDIT LANE DETAILS: EDIT LAYER DETAILS

- Select a layer from the Layer drop-down list (1)
- Click 'Add Layer' (repeat until all layers are added) (2)
- Click on the layer in the Lane Section box to begin editing (3)

**Standard Full
Job Entry**

The screenshot shows the 'Segment Lanes' form. At the top, there's a 'Selected Lane' dropdown set to '1.0'. Below it are buttons for 'Add Left Lane', 'Add Right Lane', 'Copy Lane Details', and 'Remove Lane'. A note explains lane numbering. The 'Lane Details [Lane #1.0]' section contains fields for Surface Type (HMA full depth), Width (12 ft), Lane Type (Mainline), Year (2014), and Partial Width Paving? (No). At the bottom, the 'Lane Section [Lane # 1.0]' table is highlighted with a red box and labeled (3). Below the table, a 'Select New Layer' dropdown is highlighted with a red box and labeled (1). The 'Add Layer' button is highlighted with a red box and labeled (2). A legend indicates that an asterisk (*) denotes required fields.

**Simplified
CPM
Job Entry**

The screenshot shows the 'Segment Overview' form. It includes sections for 'Segment Shoulder Overview', 'Segment Curb & Gutter Overview', and 'Segment Sections'. The 'Segment Sections' table has columns for '#', 'Layer Name', and 'Data Entry Status'. Below the table are 'Move Up', 'Move Down', and 'Remove' buttons. A 'Select New Layer' dropdown is present, and the 'Add Layer' button is highlighted with a green box. The form also includes a 'Year [Paved/Placed]' field and a 'Segment Comments' text area. At the bottom, there are buttons for 'Back', 'Save Segment', 'Save Segment As Draft', and 'Cancel', along with a 'Segment Summary' button.

EDIT LANE DETAILS: EDIT LAYER DETAILS

- Select the Layer in the *Select a Layer* drop-down (1)
- Enter details in the *Pavement Attributes* pane (2)
- Enter aggregate details (If applicable) (3)
 - Select the aggregate from the *Aggregate* list (standard MDOT gradations)
 - ❖ If *'Other Aggregate'* (non-standard gradation) selected - enter the other aggregate name in the text box
 - Enter the pit source number for *Source*
 - ❖ **Note:** "County Code" pit source numbers can be used
 - Click *'Add Aggregate'* (4)
 - Repeat until all aggregates have been added

Select a Layer [Job # - 201403 / PR # - 961905/ MP :4.123 ... 4.465]

Layer : **HMA Base Course** (1)

The bottom layer of an asphalt structure (below leveling & top course layers).

Locate layer attributes using the following considerations:
- For Mix Type, Mix Design No., Asphalt Binder, use JMF (Form 1911), Report of Quality Assurance (RQA) (Form 1122B).
- For Application Rate, use 'As Built' Plans & Proposal or Yield Calculations.
- For Aggregate Class and Source (pit number), use JMF (Form 1911).

**** Drop-down menu to quickly change between setup layers**

Pavement Attributes - HMA Base Course

* Mix Type : Select Mix Type - HMA Base Course

* Mix Design No (Case Sensitive) :

* Application Rate : Select Application Rate #/syd (2)

* Asphalt Binder : Select Asphalt Binder

* Asphalt Binder Cert. Supplier : Select Asphalt Binder Certified Supplier

* Asphalt % (Total) : [Numeric Value]

* Asphalt Binder %Added (Virgin) : [Numeric Value]

* Warm Mix? : ☐ Yes ☐ No

* Shingles used in the mix? : ☐ Yes ☒ No

Select New Aggregate (3)

* Aggregate : Select an Aggregate

Source : -

Add Aggregate (4)

Aggregate Summary

Aggregate	Source	
Empty - Add Aggregates		

Add Aggregates Edit Aggregate Remove Aggregate

Back Complete Layer Restore Defaults Cancel

Save Layer As Draft Add to Layers Library

EDIT LANE DETAILS: EDIT LAYER DETAILS

- **Restore Defaults** button: **(1)**
 - To reset the layer and remove all data entry
- **Save Layer As Draft** button: **(2)**
 - Saves layer as **Draft** – use to save and add more data later
- **Complete Layer** button: **(3)**
 - Saves layer as **Complete** – use when all data is added & complete.
- **Add to Layers Library** button: **(4)**
 - To save the layer to the job's list of Layers Library

Select a Layer [Job # - 201403 / PR # - 961905/ MP :4.123 ... 4.465]

Layer : HMA Base Course

The bottom layer of an asphalt structure (below leveling & top course layers).

Locate layer attributes using the following construction-related documents:

- For Mix Type, Mix Design No., Asphalt Binder/Supplier, Asphalt%/%Added, Shingles/Warm Mix: use JMF (Form 1911), Report of Quality Assurance Testing (Form 1903B), and Inspector's Daily Reports (IDRs) (Form 1122B).
- For Application Rate, use 'As Built' Plans & Proposal or Yield Calculator
- For Aggregate Class and Source (pit number), use JMF (Form 1911)

Pavement Attributes - HMA Base Course

- * Mix Type : Select Mix Type - HMA Base Course
- * Mix Design No (Case Sensitive) :
- * Application Rate : Select Application Rate #/syd
- * Asphalt Binder : Select Asphalt Binder
- * Asphalt Binder Cert. Supplier : Select Asphalt Binder Certified Supplier
- * Asphalt % (Total) : [Numeric Value]
- * Asphalt Binder %Added (Virgin) : [Numeric Value]
- * Warm Mix? : ☐ Yes ☐ No
- * Shingles used in the mix? : ☐ Yes ☒ No

Select New Aggregate

- * Aggregate : Select an Aggregate
- Source : -

Add Aggregate

Aggregate Summary

Aggregate

Empty - Add Aggregates

Add Aggregates Edit Aggregate

Lane Section [Lane # 1.0]

#	Layer Name	Data Entry Status	
1	HMA Base Course	Complete	

Move Up Move Down Remove

Lane Section [Lane # 1.0]

#	Layer Name	Data Entry Status	
1	HMA Base Course	Draft	

Move Up Move Down Remove

Back Complete Layer Restore Defaults Cancel

Save Layer As Draft Add to Layers Library

Result in the Lane Summary Screen

Result in the Lane Summary Screen

EDIT LANE DETAILS: EDIT LAYER DETAILS

- Add Aggregates (*from one to another layer*)
 - After Saving a Layer as Complete – click ‘Add Aggregates’ (1)
 - Check the aggregates to add (2)
 - Check the layers to apply aggregates (3)
 - Click ‘Add’ (4)
 - **Note:** Any Complete layers will not appear in list to add to
 - **Note:** Previously added aggregates will not be deleted

Post Construction Data | Add Aggregates Role[s] :: Data Owner , System Administrator

Add Aggregates

Lane Section 2.0 [Layer Name - 3 HMA Base Course]

Aggregate	Source	<input type="checkbox"/>
2SS	04-057	<input type="checkbox"/>
2NS	72-006	<input checked="" type="checkbox"/>
25A	72-006	<input type="checkbox"/>
WCD	72-005	<input checked="" type="checkbox"/>

(2)

Lane Draft Layers

#	Layer Name	<input type="checkbox"/>
5	HMA Top Course	<input checked="" type="checkbox"/>
4	HMA Level Course	<input checked="" type="checkbox"/>
2	Aggregate Base Course	<input type="checkbox"/>
1	Subbase	<input type="checkbox"/>

(3)

Back Add (4)

Post Construction Data | Layer Details Role[s] :: Data Owner , System Administrator

* = Required Fields

Select a Layer [Job # - JPS_TEST1234 / PR # - 3031548/ MP :0.9 ... 1]

Layer : HMA Base Course

Pavement Attributes - HMA Base Course

* Application Rate : 330 #/syd

* Asphalt Binder : PG 64-22

* Asphalt Binder Cert. Supplier : Ajax Asphalt Terminal, Detroit, MI

* Mix Type : 3E3

* Mix Design No (Case Sensitive) : 13MD296

* Warm Mix? : ☐ Yes ☒ No

* Shingles used in the mix? : ☐ Yes ☒ No

Select New Aggregate

* Aggregate : Select an Aggregate

Source : -

Add Aggregate

Aggregate Summary

Aggregate	Source	<input type="checkbox"/>
2SS	04-057	<input type="checkbox"/>
2NS	72-006	<input type="checkbox"/>
25A	72-006	<input type="checkbox"/>
WCD	72-005	<input type="checkbox"/>

(1)

Add Aggregates Edit Aggregate Remove Aggregate

Back Complete Layer Restore Defaults Cancel

Save Layer As Draft Add to Quick Layers

EDIT LANE DETAILS: LANE SECTION PANE

❑ Move a layer up or down in list:

- Select layer check box,
- Click 'Move Up' or 'Move Down'

❑ Remove a layer from the list:

- Select the layer check box,
- Click 'Remove'

Lane Section [Lane # 1.0]

#	Layer Name	Data Entry Status	<input type="checkbox"/>
5	HMA Top Course	Complete	<input type="checkbox"/>
4	HMA Level Course	Complete	<input type="checkbox"/>
3	HMA Base Course	Complete	<input type="checkbox"/>
2	Aggregate Base Course	Complete	<input type="checkbox"/>
1	Subbase	Complete	<input type="checkbox"/>

Move Up Move Down Remove

Lane Details [Lane #1.0]

* Surface Type : HMA full depth

* Width : 12 ft

* Lane Type : Mainline

* Year [Paved/Placed] : 2016 [yyyy]

* Partial Width Paving? : ☐ Yes ☒ No

Lane Section [Lane # 1.0]

#	Layer Name	Data Entry Status	<input type="checkbox"/>
5	HMA Top Course	Complete	<input type="checkbox"/>
4	HMA Level Course	Complete	<input type="checkbox"/>
3	Aggregate Base Course	Complete	<input type="checkbox"/>
2	HMA Base Course	Complete	<input type="checkbox"/>
1	Subbase	Complete	<input type="checkbox"/>

Move Up Move Down Remove

Select New Layer

Layer : Select a Layer

Add Layer

* = Required Fields

Back Save Lane Save Lane As Draft Cancel

Copy Lane Layers to Shoulder(s)

Lane Section [Lane # 1.0]

#	Layer Name	Data Entry Status	<input type="checkbox"/>
4	HMA Top Course	Complete	<input type="checkbox"/>
3	HMA Level Course	Complete	<input type="checkbox"/>
2	Aggregate Base Course	Complete	<input type="checkbox"/>
1	Subbase	Complete	<input type="checkbox"/>

Move Up Move Down Remove

EDIT LANE DETAILS: SAVING

- Click 'Save Lane As Draft':
 - Saves current lane as **Draft** – use to save and add more data/layers later
- Click 'Save Lane':
 - Saves current lane as **Complete** – use when all data/layers are added & complete

Segment Lane(s) Overview		
Lane #	Work Done	Status
1.0	Yes	Draft
Lane Details		

Result in the Segment Overview Screen

Segment Lane(s) Overview		
Lane #	Work Done	Status
1.0	Yes	Complete
Lane Details		

Result in the Segment Overview Screen

Lane Details [Lane #1.0]

* Surface Type : HMA full depth

* Width : 12 ft

* Lane Type : Mainline

* Year [Paved/Placed] : 2016 [yyyy]

* Partial Width Paving? : ☐ Yes ☒ No

Lane Section [Lane #1.0]

#	Layer Name	Data Entry Status	
5	HMA Top Course	Complete	<input type="checkbox"/>
4	HMA Level Course	Complete	<input type="checkbox"/>
3	HMA Base Course	Complete	<input type="checkbox"/>
2	Aggregate Base Course	Complete	<input type="checkbox"/>
1	Subbase	Complete	<input type="checkbox"/>

Move Up Move Down Remove

Select New Layer

Layer :

Add Layer

* = Required Fields

Back Save Lane Save Lane As Draft Cancel

Copy Lane Layers to Shoulder(s)

EDIT LANE DETAILS: COPY LANE

- Click 'Copy Lane' (After Saving a lane as Complete) (1)
- Select the Completed Lane to copy from (2)
- Select the Draft Lane(s) to copy to (3)
- Options:
 - To overwrite to selected Lane(s) – click 'Copy' (4)
 - Else, uncheck a box to not overwrite everything– click 'Copy' (4)

The screenshot shows the 'Copy Lane' dialog box. A red box (1) highlights the 'Copy Lane' button. A red box (2) highlights the 'Completed Lanes [Copy From]' table, which contains one row: Lane Number 1.0, Status Complete. A red box (3) highlights the 'Incomplete Lanes [Copy To]' table, which contains two rows: Lane Number 3.0, Status Draft, and Lane Number 2.0, Status Draft. A red box (4) highlights the 'Copy' button at the bottom.

Completed Lanes [Copy From]	
Lane Number	Status
1.0	Complete

Incomplete Lanes [Copy To]	
Lane Number	Status
3.0	Draft
2.0	Draft

The screenshot shows the 'Lane Summary' form. A red box (1) highlights the 'Copy Lane' button. A red box (4) highlights the 'Copy' button at the bottom of the 'Lane Details' section.

Selected Lane: 1.0

Work Done: ☐ Yes ☐ No

NOTE: Lanes are always numbered right to left facing toward increasing milepoints of the PR segment:
- Lane 1 is the right-most travel lane of the PR segment.
- Increasing lane numbers 2, 3, and greater are lanes left of Lane 1.
- Decreasing lane numbers 0, -1, and less are lanes right of Lane 1.

Lane Details [Lane #1.0]

* Surface Type: HMA full depth

* Width: 12 ft

* Lane Type: Mainline

* Year [Paved/Placed]: 2018 [yyyy]

* Partial Width Paving?: ☐ Yes ☒ No

EDIT LANE DETAILS: COPY TO SHOULDER(S)

- Click 'Copy Lane Layers to Shoulder(s)' (1)
- Select the Shoulder side to apply the copy to: *Both, Left, Right, or Cancel* (2)
 - **Warning:** For the shoulder(s) copied to, all existing Layers will be **removed** and **replaced** with those shown in the active lane

Segment Details [PR # - 961905 / MP : 4.465 ... 4.499] [Show] ▲

Segment Lanes

Select Lane : Lane #1.0 Work Done : ☒ Yes ☐ No

Add Left Lane Add Right Lane Copy Lane Details Remove Lane

NOTE: Lanes are always numbered right to left facing toward increasing milepoints of the PR segment:
- Lane 1 is the right-most travel lane of the PR segment.
- Increasing lane numbers 2, 3, and greater are lanes left of Lane 1.
- Decreasing lane numbers 0, -1, and less are lanes right of Lane 1.

Lane Details [Lane #1.0]

* Surface Type : HMA f
* Width : 12
* Lane Type : Mainlin
* Year [Paved/Placed] : 20
* Partial Width Paving? : ☐ Yes

Lane Section [Lane # 1.0]

#	Layer Name	Status
5	HMA Top Course	Complete
4	HMA Level Course	Complete
3	HMA Base Course	Complete
2	Aggregate Base Course	Complete
1	Subbase	Complete

Move Up Move Down Remove

Select New Layer

Layer : Select a Layer

Add Layer

* = Required fields

Back Save Lane Save Lane As Draft Cancel

Copy Lane Layers to Shoulder(s)

Shoulder, Curb & Gutter Details

* = Required Fields

Left Side Right Side

Shoulder Details [Job # - 110749 / PR # - 961905/ MP :4.465 ... 4.499] Left Side

* Work Done : ☒ Yes ☐ No
* Has Corrugations(Rumble Strip) : ☐ Yes ☒ No
* Is Parking Lane : ☐ Yes ☒ No
* Partial Width Paving? : ☐ Yes ☒ No
* Paved Width : 8 Feet
* Total Width : 8 Feet
* Shoulder Surface type (pavement cross-section) : HMA over exist Jointed Conc

Select New Layer

Layer : Select a Layer

Add Layer

Shoulder Sections

#	Layer Name	Data Entry Status
5	HMA Top Course	Draft
4	HMA Level Course	Draft
3	HMA Base Course	Draft
2	Aggregate Base Course	Draft
1	Subbase	Draft

Move Up Move Down Remove

EDIT SHOULDER, CURB & GUTTER DETAILS

- Click 'Shoulder, Curb & Gutter Details'
- The Shoulder, Curb & Gutter Details screen will appear

Post Construction Data | Shoulder, Curb & Gutter Details Role[s] :: Data Owner, System Administrator

*** = Required Fields**

Left Side **Right Side**

Shoulder Details [Job # - 110749 / PR # - 961905/ MP :4.465 ... 4.499] **Left Side**

* Work Done : ☒ Yes ☐ No

* Has Corrugations(Rumble Strip) : ☐ Yes ☐ No

* Is Parking Lane : ☐ Yes ☐ No

* Partial Width Paving? : ☐ Yes ☐ No

* Paved Width : 8 Feet

* Total Width : 8 Feet

* Shoulder Surface Type (pavement cross-section) : HMA over exist Jointed Conc

Select New Layer

Layer :

Shoulder Sections

#	Layer Name	Data Entry Status	

Curb & Gutter Details [Job # - 110749 / PR # - 961905/ MP :4.465 ... 4.499] **Left Side**

* Work Done : ☐ Yes ☒ No

Post Construction Data | Segment Overview Role[s] :: Data Owner

Segment Details [PR # - 961905 / MP : 4.465 ... 4.499] **[Show] ▲**

Segment Shoulder Overview

	Left	Right
Work Done	Yes	Yes
Status	Draft	Draft

Segment Lane(s) Overview

Lane #	Work Done	Status
3.0	Yes	Complete
2.0	Yes	Complete
1.0	Yes	Complete

Segment Curb & Gutter Overview

	Left	Right
Work Done	No	No
Status		

Shoulder, Curb & Gutter Details

Median Overview

* Median Type :

Segment Comments
[max 250 characters]

EDIT SHOULDER, CURB & GUTTER DETAILS

- Select the **Left Side** or **Right Side** tab (1)
- Click 'Yes' or 'No' for Work Done (2)
 - ❖ 'Yes' will allow entry of details
- Enter Shoulder details (3)
- To **copy** the selected side to the other side – click 'Copy Shoulder, Curb & Gutter Details' (4)
 - ❖ **Note:** Right and Left sides are established by facing the direction of increasing milepoints

Post Construction Data | Shoulder, Curb & Gutter Details Role[s] :: Data Owner, System Administrator

* = Required Fields

Left Side Right Side (1)

Shoulder Details [Job # - 110749 / PR # - 961905/ MP :4.465 ... 4.499] Left Side

* Work Done (2) ☒ Yes ☐ No

* Has Corrugations(Rumble Strip) : ☐ Yes ☐ No

* Is Parking Lane : ☐ Yes ☐ No

* Partial Width Paving? : ☐ Yes ☐ No

* Paved Width : 8 Feet

* Total Width : 8 Feet

* Shoulder Surface Type (pavement cross-section) : HMA over exist Jointed Conc

Select New Layer

Layer : Select a Layer

Add Layer

Shoulder Sections

#	Layer Name	Data Entry Status	
---	------------	-------------------	--

Move Up Move Down Remove

Curb & Gutter Details [Job # - 110749 / PR # - 961905/ MP :4.465 ... 4.499] Left Side

* Work Done : ☐ Yes ☒ No

Back Save Shoulder, Curb & Gutter Cancel

(4) Copy Shoulder and/or Curb & Gutter Save Shoulder As Draft

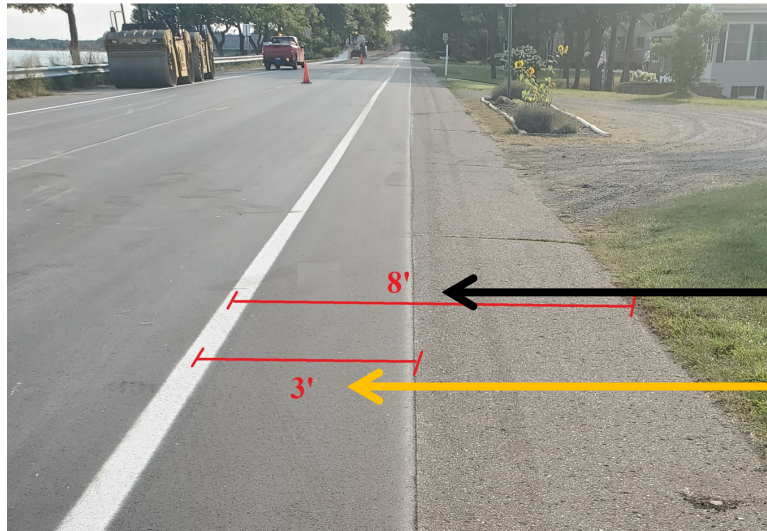
EDIT SHOULDER, CURB & GUTTER DETAILS

☐ Partial width paving

- Select 'Yes' if the shoulder was **partially** paved **within the same job**
- Select 'No' if the shoulder was **completely** paved **within the same job**

☐ If 'Yes' is selected:

- Enter the partial Paving Width



Left Side

Right Side

Shoulder Details [Job # - 201195 / PR # - 1562406/ MP :0 ... 0.059] Left Side

* Work Done : ☒ Yes ☐ No

* Has Corrugations(Rumble Strip) : ☐ Yes ☒ No

* Is Parking Lane : ☐ Yes ☒ No

* Partial Width Paving? : ☒ Yes ☐ No

* Partial Paving Width : 3 Feet

* Paved Width : 8 Feet

* Total Width : 8 Feet

* Shoulder Surface Type (pavement cross-section) : HMA full depth

Select New Layer

Layer :

Select a Layer

Add Layer

Shoulder Sections

#	Layer Name	Data Entry Status	
---	------------	-------------------	--

Move Up Move Down Remove

Curb & Gutter Details [Job # - 201195 / PR # - 1562406/ MP :0 ... 0.059] Left Side

Work Done : ☒ Yes ☐ No

* Curb Type :

Select Curb Type

Back

Save Shoulder, Curb & Gutter

Cancel

Copy Shoulder and/or Curb & Gutter

Save Shoulder As Draft

SHOULDER, CURB & GUTTER: SIMPLIFIED CPM

Simplified CPM

Left Side & Right Side tabs

Shoulder Details

Add/Edit Shoulder Layers (No Shoulder Details)

Curb Type drop-down list

Standard Full Job Entry

Simplified CPM

Full Job

Both

The image displays two screenshots of the MDOT software interface for 'Shoulder, Curb & Gutter Details'. The left screenshot, labeled 'Simplified CPM', shows a form with tabs for 'Left Side' and 'Right Side'. The 'Shoulder Details' section is highlighted in green, and the 'Curb & Gutter Details' section is highlighted in orange. The right screenshot, labeled 'Standard Full Job Entry', shows a similar form but with a more detailed 'Shoulder Details' section highlighted in red, including fields for 'Work Done', 'Has Corrugations(Rumble Strip)', 'Is Parking Lane', 'Partial Width Paving?', 'Paved Width', 'Total Width', and 'Shoulder Surface Type'. The 'Curb & Gutter Details' section is also highlighted in orange. Arrows point from the text labels to the corresponding UI elements in both screenshots.

EDIT SHOULDER, CURB & GUTTER DETAILS

- *Save Shoulder As Draft:*
 - Saves current side as **Draft** – use to save and add more data/layers later
- *Save Shoulder, Curb & Gutter:*
 - Saves current side as **Complete** – use when all data/layers are added & complete

Result in the Segment Overview Screen

Segment Shoulder Overview		
	Left	Right
Work Done	Yes	No
Status	Draft	
Segment Curb & Gutter Overview		
	Left	Right
Work Done	No	No
Status		
Shoulder, Curb & Gutter Details		

Segment Shoulder Overview		
	Left	Right
Work Done	Yes	Yes
Status	Complete	Complete
Segment Curb & Gutter Overview		
	Left	Right
Work Done	Yes	Yes
Status	Complete	Complete
Shoulder, Curb & Gutter Details		

Result in the Segment Overview Screen

:: Post Construction Data | Shoulder, Curb & Gutter Details Role[s] :: Data Owner , System Administrator

* = Required Fields

Left Side Right Side

Shoulder Details [Job # - 110749 / PR # - 961905/ MP :4.465 ... 4.499] Left Side

* Work Done : ☒ Yes ☐ No

* Has Corrugations(Rumble Strip) : ☐ Yes ☒ No

* Is Parking Lane : ☐ Yes ☒ No

* Partial Width Paving? : ☐ Yes ☒ No

* Paved Width : 8 Feet

* Total Width : 8 Feet

* Shoulder Surface Type (pavement cross-section) : HMA over exist Jointed Conc

Select New Layer

Layer : Select a Layer Add Layer

Shoulder Sections

#	Layer Name	Data Entry Status	
2	HMA Top Course	Draft	<input type="checkbox"/>
1	Cold Milling	Draft	<input type="checkbox"/>

Move Up Move Down Remove

Curb & Gutter Details [Job # - 110749 / PR # - 961905/ MP :4.465 ... 4.499] Right Side

* Work Done : ☒ Yes ☐ No

* Curb Type : Concrete Curb & Gutter

Back Save Shoulder, Curb & Gutter Cancel

Copy Shoulder and/or Curb & Gutter Save Shoulder As Draft

EDIT SHOULDER, CURB & GUTTER DETAILS

❑ Copying Shoulder details

- Click 'Copy Shoulder and/or Curb & Gutter' (After Saving a side as Complete) (1)

➤ Options:

- To overwrite and copy everything to other side – click 'Copy to...Shoulder' (2)
- Or, uncheck a box to not overwrite everything – click 'Copy to...Shoulder' (3)

(3)

Instructions - Shoulder Details Copy [Hide]

- Select the copy option.

All the existing shoulder information will be lost.

Copy Options

Select Option
<input checked="" type="checkbox"/> Shoulder Details
<input checked="" type="checkbox"/> Shoulder Layers
<input checked="" type="checkbox"/> Curb & Gutter Details

Back Copy to Right Shoulder (2)

Post Construction Data | Shoulder, Curb & Gutter Details Role[s] :: Data Owner , System Administrator

* = Required Fields

Left Side Right Side

Shoulder Details [Job # - 110749 / PR # - 961905/ MP :4.465 ... 4.499] Left Side

* Work Done : ☒ Yes ☐ No

* Has Corrugations(Rumble Strip) : ☐ Yes ☒ No

* Is Parking Lane : ☐ Yes ☒ No

* Partial Width Paving? : ☐ Yes ☒ No

* Paved Width : 8 Feet

* Total Width : 8 Feet

* Shoulder Surface Type (pavement cross-section) : HMA over exist Jointed Conc

Select New Layer

Layer : Select a Layer Add Layer

Shoulder Sections

#	Layer Name	Data Entry Status	
1	HMA Top Course	Complete	<input type="checkbox"/>

Move Up Move Down Remove

Curb & Gutter Details [Job # - 110749 / PR # - 961905/ MP :4.465 ... 4.499] Left Side

* Work Done : ☒ Yes ☐ No

* Curb Type : Concrete Curb & Gutter

Back Save Shoulder, Curb & Gutter Cancel


Copy Shoulder and/or Curb & Gutter Save Shoulder As Draft

(1)

EDIT SEGMENT DETAILS: SAVING

- *Save Segment As Draft:*
 - Lanes/Shoulder, Curb & Gutter **do not** require 'Complete' Status
- *Click Save Segment:*
 - Lanes/Shoulder, Curb & Gutter **does** require 'Complete' Status

Result in the Road Segment List Screen


Successfully saved sectional information for the segment [# 4] as Draft.

PR Segment List									[Hide] ▼
	#	PR Number	PR (v)	BMP	EMP	Route	Direction	Framework Status	Data Status
<input type="radio"/>	1	962706	16	10.505	10.789	I-69	E	Active	Draft
<input type="radio"/>	2	962706	16	10.789	11.123	I-69	E	Active	Draft
<input type="radio"/>	3	962706	16	11.123	11.554	I-69	E	Active	Draft
<input checked="" type="radio"/>	4	961905	16	4.465	4.499	M-19	N/S	Active	Draft
<input type="radio"/>	5	961905	16	4.499	4.719	M-19	N/S	Active	Draft

Segment Details

Copy Segment Details

Create Segment

Delete Segment

View Map

Quick Layer Overview

Post Construction Data | Segment Overview Role[s] :: Data Owner

Segment Details [PR # - 961905 / MP : 4.465 ... 4.499] [Show] ▲

Segment Shoulder Overview		
	Left	Right
Work Done	Yes	Yes
Status	Complete	Complete

Segment Lane(s) Overview		
Lane #	Work Done	Status
3.0	Yes	Complete
2.0	Yes	Complete
1.0	Yes	Complete

Lane Details

Segment Curb & Gutter Overview		
	Left	Right
Work Done	Yes	Yes
Status	Complete	Complete

Shoulder, Curb & Gutter Details

Median Overview

* Median Type :

Segment Comments [max 250 characters]

Back Save Segment Save Segment As Draft Cancel

Segment Summary

LAYERS LIBRARY OVERVIEW

❑ Function/Purpose:

- Create/add 'Layers' to segments' lanes/shoulders within a single screen
- Makes adding/editing layers faster and easier to do
- This works the same for *Simplified CPM* (adds layers to segments, not lanes)

❑ Click *Layers Library Overview*

- The Layers Library Overview screen will appear

Create/Modify Layer(s) **Add Layer(s)**

Select New Layer

Layer :

User Specified :

Name

Add Layer

Layers List

#	Layer Name	User Specified Name	Data Entry Status	
				<input type="checkbox"/>

Remove

Back **Save**

Job Details [201403 / 164 - Asphalt Reconstruction] **[Show] ▲**

Edit Job Details

PR Segment List **[Hide] ▼**

	#	PR Number	PR(v)	BMP	EMP	Route	Direction	Framework Status	Data Status
<input checked="" type="radio"/>	1	961905	23	4.123	4.465	M-19	2 Way	Active	Draft
<input type="radio"/>	2	3090836	23	0	0.125	M-25	NB	Active	Draft
<input type="radio"/>	3	3090836	23	0.125	0.369	M-25	NB	Active	Draft
<input type="radio"/>	4	3090836	23	0.369	0.587	M-25	NB	Active	Draft
<input type="radio"/>	5	3090836	23	0.587	0.852	M-25	NB	Active	Draft
<input type="radio"/>	6	3090836	23	0.852	1.292	M-25	NB	Active	Draft

Segment Details **Copy Segment Details** **Create Segment** **Delete Segment(s)** **View Map**

Layers Library Overview

Change PR Segment Mile Points

#	PR Number	BMP	EMP
1	961905	4.123	4.465

Apply Milepoint Changes

Create PR Sub Segments

No. of Sub Segments : [At least 2]

Create Sub Segments

Project Comments
[max 250 characters]

Back **Finalize Job** **Save Job as Draft** **Cancel**

Project Summary

LAYERS LIBRARY OVERVIEW: CREATE/MODIFY

❑ To **add** a 'Layer', in the Select New Layer pane:

- Select a Layer from the drop-down list (1)
- Enter a unique name in the text box (2)
- Click 'Add Layer' (3)

❑ **Edit/complete** the layer & aggregate details (4)

❖ **NOTE:** Each 'Layer' must have a unique name

Create/Modify Layer(s) Add Layer(s)

Select New Layer

Layer : HMA Top Course

User Specified : Top_201403

Name

Add Layer

Layers List

#	Layer Name	User Specified Name	Data Entry Status	
1	HMA Top Course	Top_201403	Draft	<input type="checkbox"/>

Remove

Back Save

Create/Modify Layer(s) Add Layer(s)

Select New Layer

Layer : HMA Top Course

User Specified : Top_201403

Name

Add Layer

Layers List

#	Layer Name	User Specified Name	Data Entry Status	
1	HMA Top Course	Top_201403	Draft	<input type="checkbox"/>

Remove

Pavement Attributes - HMA Top Course

User Specified Name : Top_201403

* AWI (Actual) : [Numeric Value]

* Application Rate : Select Application Rate #/syd

* Asphalt Binder : Select Asphalt Binder

* Asphalt Binder Cert. Supplier : Select Asphalt Binder Certified Supplier

* Mix Design No (Case Sensitive) :

* Mix Type : Select Mix Type - HMA Top Course

* Shingles used in the mix? : ☐ Yes ☒ No

* Warm Mix? : ☐ Yes ☐ No

Select New Aggregate

* Aggregate : Select an Aggregate (4)

Source : -

Add Aggregate

Aggregate Summary

Aggregate	Source	
Empty - Add Aggregates		

Remove Aggregate

Save Layer Restore Defaults

LAYERS LIBRARY OVERVIEW: CREATE/MODIFY

➤ To save a 'Layer', click 'Save Layer'

- **NOTE:** If attributes are missing, the Data Entry Status is saved as **Draft**. If all attributes are entered, it is **Complete**.
- **WARNING:** Clicking Save, is **not** the same as Save Layer. Click Save Layer **before** clicking Save.

Draft

Create/Modify Layer(s) Add Layer(s)

Select New Layer
Layer : Select a Layer
User Specified :
Name :
Add Layer Remove

#	Layer Name	User Specified Name	Data Entry Status	
1	HMA Top Course	Top_201403	Draft	<input type="checkbox"/>

Pavement Attributes - HMA Top Course
User Specified Name : Top_201403

* AWI (Actual) : 263 [Numeric Value]
* Application Rate : 165 #/syd
* Asphalt Binder : PG 64-28
* Asphalt Binder Cert. Supplier : Flint Hills Resources, LP, Green Bay, WI
* Mix Design No (Case Sensitive) :
* Mix Type : Select Mix Type - HMA Top Course
* Shingles used in the mix? : ☐ Yes ☒ No
* Warm Mix? : ☐ Yes ☒ No

Select New Aggregate
* Aggregate : Select an Aggregate
Source : -
Add Aggregate Remove Aggregate

Aggregate	Source	
Empty - Add Aggregates		

Save Layer Restore Defaults
Back Save

Missing

Complete

Create/Modify Layer(s) Add Layer(s)

Select New Layer
Layer : Select a Layer
User Specified :
Name :
Add Layer Remove

#	Layer Name	User Specified Name	Data Entry Status	
1	HMA Top Course	Top_201403	Complete	<input type="checkbox"/>

Pavement Attributes - HMA Top Course
User Specified Name : Top_201403

* AWI (Actual) : 263 [Numeric Value]
* Application Rate : 165 #/syd
* Asphalt Binder : PG 64-28
* Asphalt Binder Cert. Supplier : Flint Hills Resources, LP, Green Bay, WI
* Mix Design No (Case Sensitive) : 13MOD2
* Mix Type : 55MH
* Shingles used in the mix? : ☐ Yes ☒ No
* Warm Mix? : ☐ Yes ☒ No

Select New Aggregate
* Aggregate : Select an Aggregate
Source : -
Add Aggregate Remove Aggregate

Aggregate	Source	
Sand	02-004	<input type="checkbox"/>
3/8	04-012	<input type="checkbox"/>

Save Layer Restore Defaults
Back Save

LAYERS LIBRARY OVERVIEW: CREATE/MODIFY

- To **change** the active 'Layer', click the layer name in the Layers List pane
 - To **remove** a 'Layer', select the layer checkbox and click 'Remove'
 - Click '**Save**' at bottom of screen (After all layers are complete and layer saved)
- ❖ **WARNING:** Always click Save **before** clicking Back or Add Layers tab. Otherwise, all added layers or changes will be lost

The screenshot shows the 'Create/Modify Layer(s)' interface. At the top, there are two tabs: 'Create/Modify Layer(s)' (active) and 'Add Layer(s)'. Below the tabs, on the left, is the 'Select New Layer' section with a dropdown menu for 'Layer' (currently 'Select a Layer'), a text field for 'User Specified Name', and an 'Add Layer' button. On the right is the 'Layers List' table:

#	Layer Name	User Specified Name	Data Entry Status	
2	HMA Level Course	Level_54875	Draft	<input type="checkbox"/>
1	HMA Top Course	Top_201403	Complete	<input type="checkbox"/>

A yellow box highlights the 'HMA Level Course' row, and a red box highlights the 'Remove' button next to it. Below the table is a 'NOTE: HMA Level Course' section. The main section is 'Pavement Attributes - HMA Level Course', which includes a 'User Specified Name' field (Level_54875) and several attributes with dropdown menus or radio buttons: Application Rate, Asphalt Binder, Asphalt Binder Cert. Supplier, Mix Design No (Case Sensitive), Mix Type, Shingles used in the mix? (Yes/No), and Warm Mix? (Yes/No). At the bottom left is the 'Select New Aggregate' section with an 'Aggregate' dropdown and a 'Source' field. At the bottom right is the 'Aggregate Summary' section with a table for 'Aggregate' and 'Source', and a 'Remove Aggregate' button. At the very bottom, there are 'Save Layer', 'Restore Defaults', 'Back', and 'Save' buttons. A green box highlights the 'Save' button.

LAYERS LIBRARY OVERVIEW: ADD LAYERS

❑ After all layers are complete, layers saved, and screen saved:

➤ Click **'Add Layers'** tab

▪ Unsaved data warning will always appear (even if you did save)

Note: This is now the active tab (shown in orange)

Create/Modify Layer(s) **Add Layer(s)**

Select New Layer | Layers List

micamdevw.michigan.gov says
Any unsaved data in this project will be lost - proceed?

OK Cancel

Pavement Attributes - HMA Level Course

User Specified Name : Level_54875

* Application Rate : Select Application Rate #/syd
* Asphalt Binder : Select Asphalt Binder
* Asphalt Binder Cert. Supplier : Select Asphalt Binder Certified Supplier
* Mix Design No (Case Sensitive) :
* Mix Type : Select Mix Type - HMA Level Course
* Shingles used in the mix? : ☐ Yes ☒ No
* Warm Mix? : ☐ Yes ☐ No

Select New Aggregate

* Aggregate : Select an Aggregate
Source : ☐ - ☐
Add Aggregate

Aggregate Summary

Aggregate	Source
Empty - Add Aggregates	

Remove Aggregate

Save Layer Restore Defaults

Back Save

Create/Modify Layer(s) **Add Layer(s)**

PR Segment List [Hide] ▼

	#	PR Number	PR(v)	BMP	EMP	Route	Direction	Framework Status	Data Status
<input type="radio"/>	1	526107	23	0.092	0.285	M-66	2 Way	Active	Draft
<input type="radio"/>	2	526107	23	1.067	1.521	M-66	2 Way	Active	Draft
<input type="radio"/>	3	240805	23	1.737	1.926	S West County Line Rd		Active	Draft

Add Library Layer ^

Layers List

	#	Layer Name	User Specified Name	Data Entry Status
<input type="checkbox"/>	1	HMA Top Course	Top_201403	Complete

Back Save

LAYERS LIBRARY OVERVIEW: ADD LAYERS

❑ To **add** a 'Layer':

- (1) Select a segment's radio button - Lanes and Shoulders pane appears below
- (2) Select lane(s) or shoulder(s) radio button (to copy to)
- (3) Select a layer from the Layers List
- (4) Click *Add Library Layer* (above) - the layer is added to the Lane/Shoulder Section pane

Create/Modify Layer(s)Add Layer(s)

PR Segment List[Hide]▼

	#	PR Number	PR(v)	BMP	EMP	Route	Direction	Framework Status	Data Status
<input checked="" type="radio"/>	1	526107	23	0.092	0.285	M-66	2 Way	Active	Draft
<input type="radio"/>	2	526107	23	1.067	1.521	M-66	2 Way	Active	Draft
<input type="radio"/>	3	240805	23	1.737	1.926	S West County Line Rd		Active	Draft

Lanes and Shoulders

<input type="checkbox"/>	#	Lane/Shoulder
<input type="checkbox"/>	2.0	Lane
<input type="checkbox"/>	1.0	Lane
<input type="checkbox"/>	Left	Shoulder
<input type="checkbox"/>	Right	Shoulder

Add Library Layer ^

Layers List

<input type="checkbox"/>	#	Layer Name	User Specified Name	Data Entry Status
<input type="checkbox"/>	1	HMA Top Course	Top_201403	Complete

Back

Save

(Appears)

Create/Modify Layer(s)Add Layer(s)

PR Segment List[Hide]▼

	#	PR Number	PR(v)	BMP	EMP	Route	Direction	Framework Status	Data Status
<input checked="" type="radio"/>	1	526107	23	0.092	0.285	M-66	2 Way	Active	Draft
<input type="radio"/>	2	526107	23	1.067	1.521	M-66	2 Way	Active	Draft
<input type="radio"/>	3	240805	23	1.737	1.926	S West County Line Rd		Active	Draft

Lanes and Shoulders

<input type="checkbox"/>	#	Lane/Shoulder
<input checked="" type="checkbox"/>	2.0	Lane
<input checked="" type="checkbox"/>	1.0	Lane
<input checked="" type="checkbox"/>	Left	Shoulder
<input type="checkbox"/>	Right	Shoulder

(2)

Add Library Layer ^

Layers List

<input type="checkbox"/>	#	Layer Name	User Specified Name	Data Entry Status
<input type="checkbox"/>	1	HMA Top Course	Top_201403	Complete

Back

Save

Create/Modify Layer(s)Add Layer(s)

PR Segment List[Hide]▼

	#	PR Number	PR(v)	BMP	EMP	Route	Direction	Framework Status	Data Status
<input checked="" type="radio"/>	1	526107	23	0.092	0.285	M-66	2 Way	Active	Draft
<input type="radio"/>	2	526107	23	1.067	1.521	M-66	2 Way	Active	Draft
<input type="radio"/>	3	240805	23	1.737	1.926	S West County Line Rd		Active	Draft

Lanes and Shoulders

<input type="checkbox"/>	#	Lane/Shoulder
<input checked="" type="checkbox"/>	2.0	Lane
<input checked="" type="checkbox"/>	1.0	Lane
<input checked="" type="checkbox"/>	Left	Shoulder
<input type="checkbox"/>	Right	Shoulder

Add Library Layer ^

(4)

Layers List

<input type="checkbox"/>	#	Layer Name	User Specified Name	Data Entry Status
<input checked="" type="checkbox"/>	1	HMA Top Course	Top_201403	Complete

(3)

Back

Save

LAYERS LIBRARY OVERVIEW: ADD LAYERS

❑ After all layers are added to the current lane or shoulder:

➤ Click '**Save**' (at bottom of screen)

❖ **WARNING:** **Always** click Save **before** selecting a new segment/lane/shoulder radio button, Back, or Create/Modify Layer(s) tab. Otherwise, all added layers or changes will be lost

⚠ Successfully saved Layers Library information.

Create/Modify Layer(s) Add Layer(s)

PR Segment List [Hide] ▼									
	#	PR Number	PR(v)	BMP	EMP	Route	Direction	Framework Status	Data Status
<input checked="" type="radio"/>	1	526107	23	0.092	0.285	M-66	2 Way	Active	Draft
<input type="radio"/>	2	526107	23	1.067	1.521	M-66	2 Way	Active	Draft
<input type="radio"/>	3	240805	23	1.737	1.926	S West County Line Rd		Active	Draft

Lanes and Shoulders		
<input type="checkbox"/>	#	Lane/Shoulder
<input type="checkbox"/>	2.0	Lane
<input type="checkbox"/>	1.0	Lane
<input type="checkbox"/>	Left	Shoulder
<input type="checkbox"/>	Right	Shoulder

Add Library Layer ^

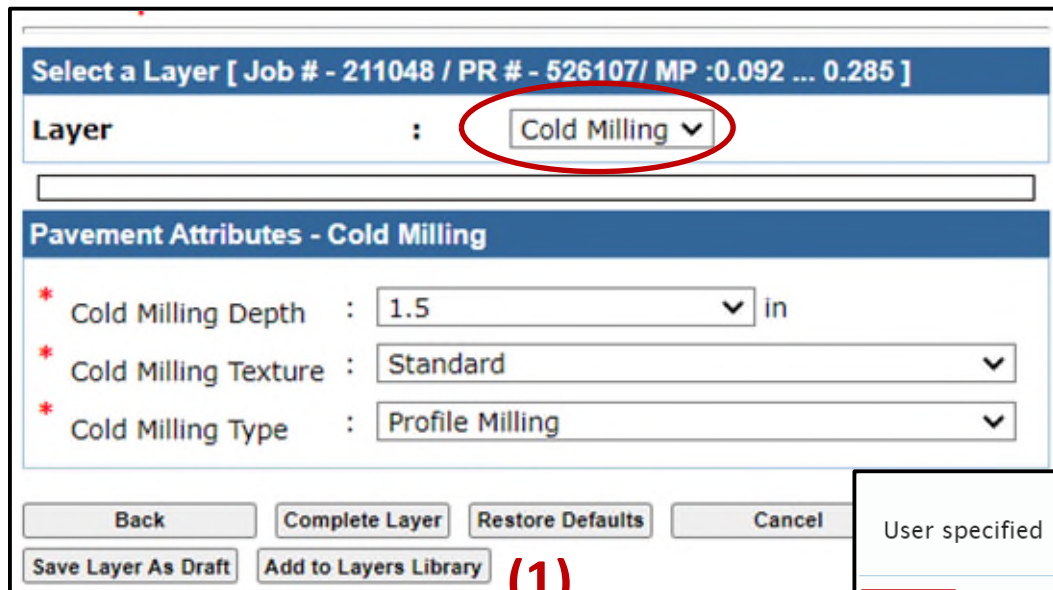
Layers List				
<input type="checkbox"/>	#	Layer Name	User Specified Name	Data Entry Status
<input type="checkbox"/>	1	HMA Top Course	Top_201403	Complete

Back Save

ADD A LAYER FROM LAYER DETAILS

❑ **Add** to the list of 'Layers Library' “**on the fly**” while working within the Layer Details screen:

- Click 'Add to Layers Library' (1)
- Enter the name in the pop-up window (2)
- Click 'Ok' (3)



Select a Layer [Job # - 211048 / PR # - 526107/ MP :0.092 ... 0.285]

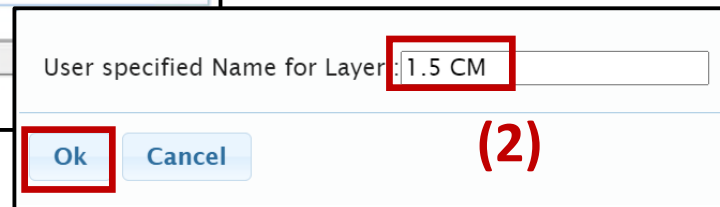
Layer : Cold Milling

Pavement Attributes - Cold Milling

- * Cold Milling Depth : 1.5 in
- * Cold Milling Texture : Standard
- * Cold Milling Type : Profile Milling

Back Complete Layer Restore Defaults Cancel

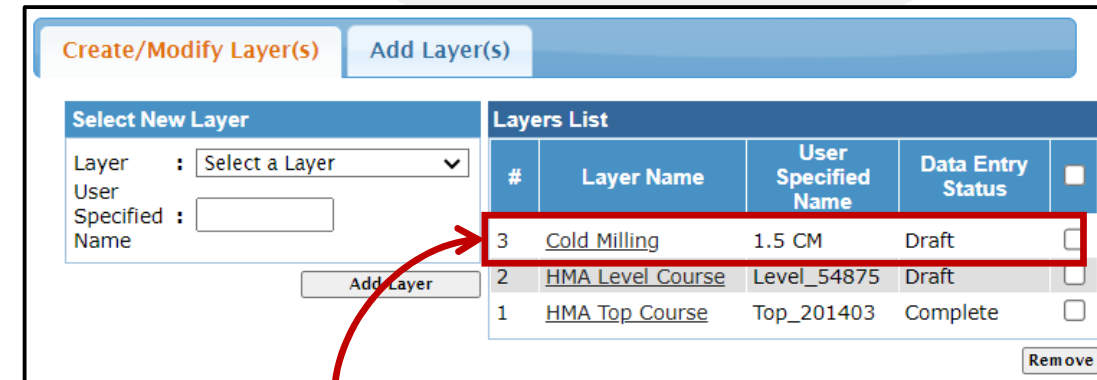
Save Layer As Draft Add to Layers Library (1)



User specified Name for Layer: 1.5 CM

Ok Cancel

(2) (3)



Create/Modify Layer(s) Add Layer(s)

Select New Layer

Layer : Select a Layer

User Specified :

Name

Add Layer

#	Layer Name	User Specified Name	Data Entry Status	
3	Cold Milling	1.5 CM	Draft	<input type="checkbox"/>
2	HMA Level Course	Level_54875	Draft	<input type="checkbox"/>
1	HMA Top Course	Top_201403	Complete	<input type="checkbox"/>

Remove

Result in the Layers Library Overview Screen

COPY SEGMENT DETAILS

- Click 'Copy Segment Details' (1)
- In the Copy Segment Details screen, select:
 - The **Completed** segment to **copy from** (select only one) and, (2)
 - The **Draft** segment to **copy to** (can select multiple) (3)
- Click 'Copy Details' (4)
 - ❖ WARNING: All segment details (lanes, shoulders/curb & gutter) will be overwritten

Post Construction Data | Copy Segment Details

Instructions - Segment Details Copy

- Select a Segment from the "Completed Segments [Copy From]" list.
- Select the Segments from the "Incomplete Segments [Copy To]" list to which the completed segment details are to be copied.

All the existing segment information will be lost.

Completed Segments [Copy From]

#	PR Number	PR (v)	BMP	EMP	Route	Direction	Framework Status	Data Status	
<input checked="" type="radio"/>	4	961905	16	4.465	4.499	M-19	N/S	Active	Complete

Incomplete Segments [Copy To]

<input type="checkbox"/>	#	PR Number	PR (v)	BMP	EMP	Route	Direction	Framework Status	Data Status
<input checked="" type="checkbox"/>	1	962706	16	10.505	10.789	I-69	E	Active	Draft
<input checked="" type="checkbox"/>	2	962706	16	10.789	11.123	I-69	E	Active	Draft
<input type="checkbox"/>	3	962706	16	11.123	11.554	I-69	E	Active	Draft
<input type="checkbox"/>	5	961905	16	4.499	4.719	M-19	N/S	Active	Draft

Back Copy Details (4)

Copy From
Complete Segment

Copy To
Draft Segments

Post Construction Data | Road Segment List

Job Details [80912 / 163 - Concrete Reconstruction]

PR Segment List

#	PR Number	PR (v)	BMP	EMP	Route	Direction	Framework Status	Data Status	
<input type="radio"/>	1	962706	16	10.505	10.789	I-69	E	Active	Draft
<input type="radio"/>	2	962706	16	10.789	11.123	I-69	E	Active	Draft
<input type="radio"/>	3	962706	16	11.123	11.554	I-69	E	Active	Draft
<input checked="" type="radio"/>	4	961905	16	4.465	4.499	M-19	N/S	Active	Complete
<input type="radio"/>	5	961905	16	4.499	4.719	M-19	N/S	Active	Draft

Copy Segment Details (1)

Change PR Segment Mile Points

#	PR Number	BMP	EMP
4	961905	4.465	4.499

Create PR Sub Segments

No. of Sub Segments : [] [At least 2]

Create Sub Segments

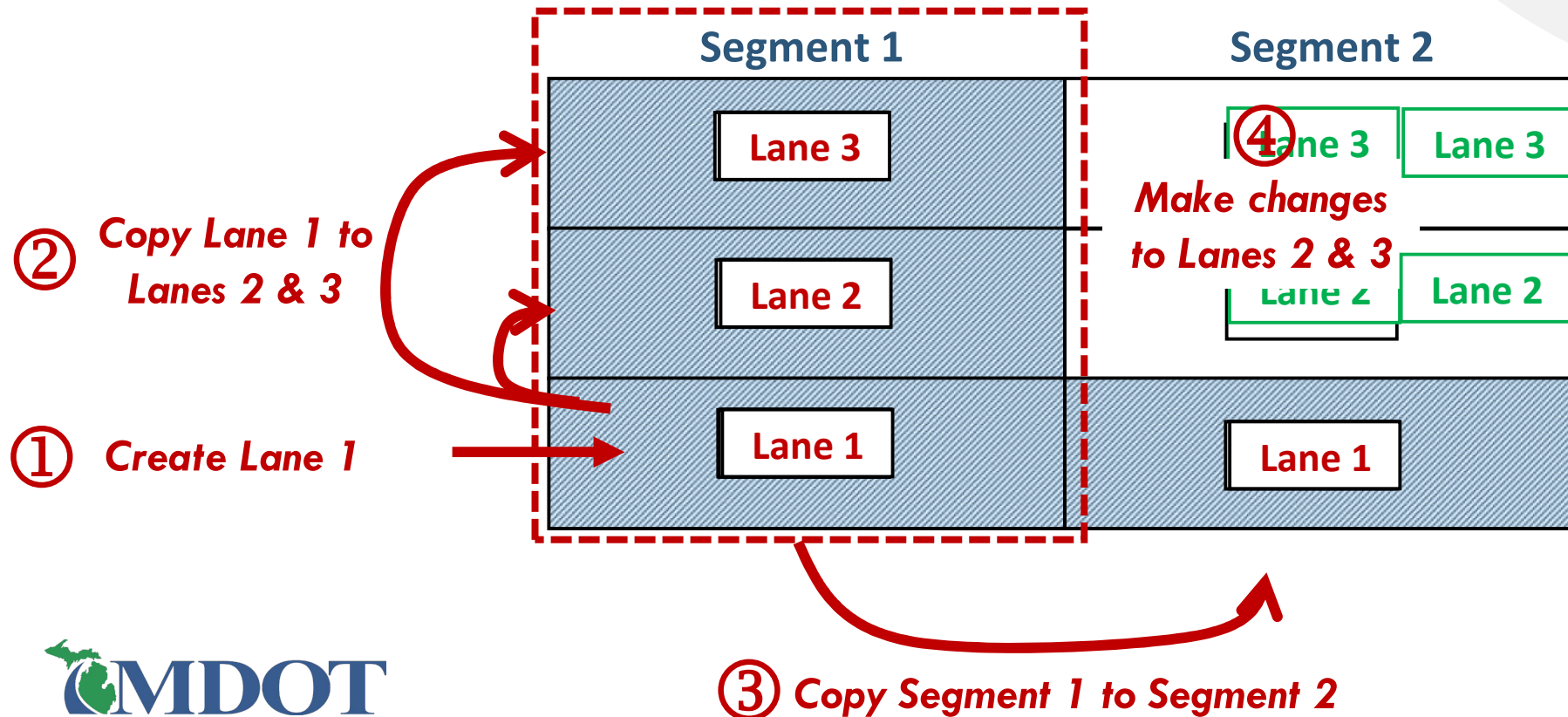
Project Comments [max 250 characters]

Back Finalize Job Save Job as Draft Cancel

Project Summary

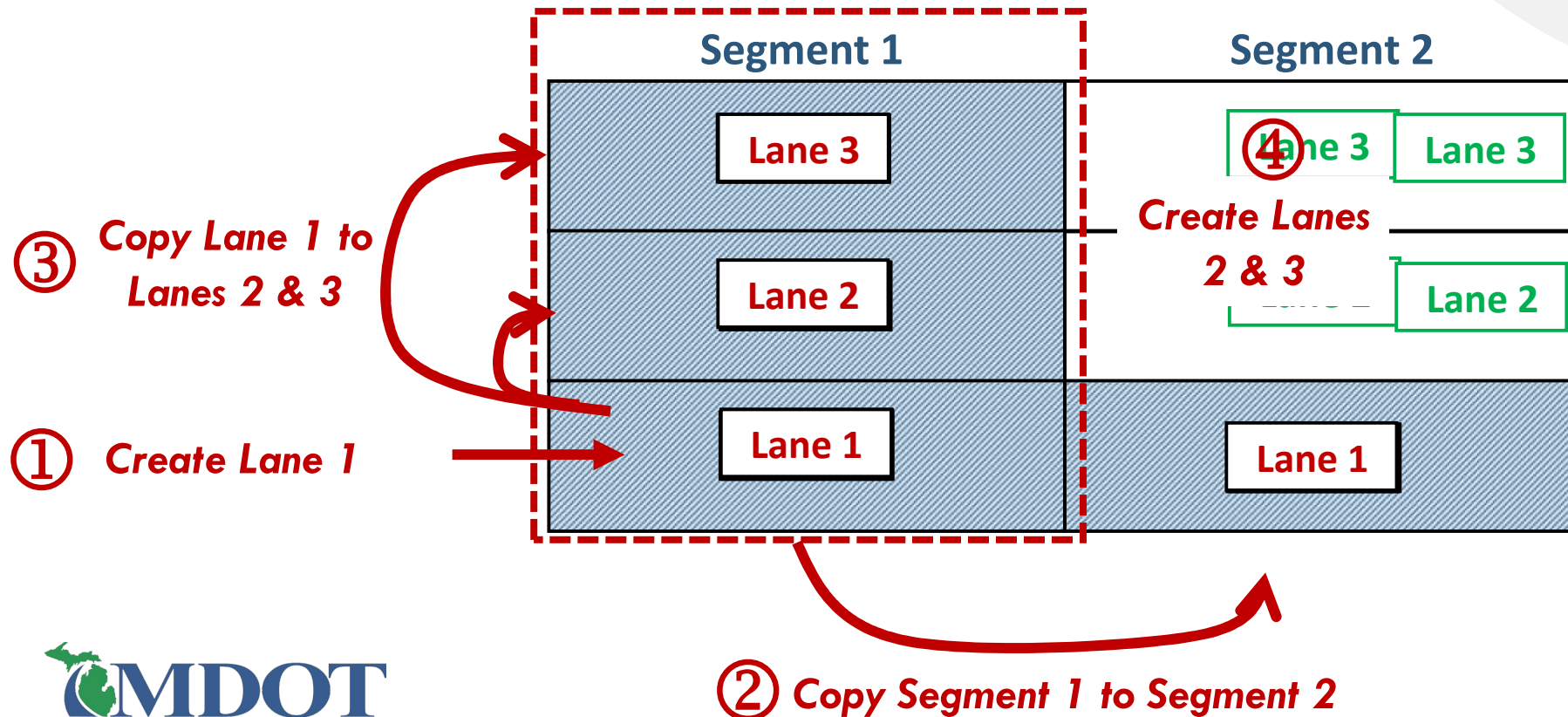
COPYING EXAMPLE (1)

- ❑ Using **Copy Lane** or **Copy Segment Details** can reduce data entry time and errors
- ❑ For Example:
 - Segment 1 has three lanes with identical info
 - Segment 2 has three lanes with different info, but Lane 1 is identical to Lane 1 of Segment 1



COPYING EXAMPLE (2)

- ❑ Using **Copy Lane** or **Copy Segment Details** can reduce data entry time and errors
- ❑ For Example:
 - Segment 1 has three lanes with identical info
 - Segment 2 has three lanes with different info, but Lane 1 is identical to Lane 1 of Segment 1



COMMENT BOXES

- ❑ Comment boxes are used to enter project specific details or additional information relating to the project or a particular segment
- ❑ Users can enter **up to 250 characters** of text

Post Construction Data | Road Segment List

Job Details [80912 / 163 - Concrete Reconstruction]

PR Segment List

#	PR Number	PR (v)	BMP	EMP	Route	Direction	Framework Status	Data Status
1	962706	16	10.505	10.789	I-69	E	Active	Complete
2	962706	16	10.789	11.123	I-69	E	Active	Complete
3	962706	16	11.123	11.554	I-69	E	Active	Draft
4	961905	16	4.465	4.499	M-19	N/S	Active	Complete
5	961905	16	4.499	4.719	M-19	N/S	Active	Draft

Project Comments [max 250 characters]

PROJECT Comments

Post Construction Data | Segment Overview

Segment Details [PR # - 961905 / MP : 4.465 ... 4.499]

Segment Shoulder Overview

	Left	Right
Work Done	Yes	Yes
Status	Complete	Complete

Segment Lane(s) Overview

Lane #	Work Done	Status
3.0	Yes	Complete
2.0	Yes	Complete
1.0	Yes	Complete

Segment Curb & Gutter Overview

	Left	Right
Work Done	Yes	Yes
Status	Complete	Complete

Median Overview

Median Type : Undivided

Segment Comments [max 250 characters]

SEGMENT Comments

PROJECT/SEGMENT SUMMARY

- Click **Project Summary** in the Road Segment List screen, or
- Click **Segment Summary** in the Segment Overview screen
 - A PDF format pop-up summary will appear
 - The summary is an excellent resource for QA/review of entered data

Project Comments [max 250 characters]

This job was constructed concurrently with job 110441.

Back Finalize Job Save Job as Draft Cancel

Project Summary

Project Summary

Job Summary

Job Number	Work Type	Fix Life (Yrs)	Cost ^[1] / Lane Mile (\$)	Date	Lanes	Special Project Type	Pavement Study Number
80912	163 - Concrete Reconstruction	26		09/20/2016 ^[4]	0	N/A	N/A

^[1] - Construction Cost or A Phase CTD from MPINS / ^[4] - Open to Traffic Date / ^[3] - Let Date / ^[2] - A Phase start date / ^[4] - Sufficiency Year Imp

Segment Details

Region	TSC	County	Route	PR Number	PR BMP	PR EMP
Bay	Huron	St. Clair	I-69	962706	10.505	10.789

Median Type: Undivided / Median Width: 0 ft

Lane [1.0], Lane Type [Mainline], Sectional Details [Surface Type:HMA full depth / Width: 12.00 ft / Partial Width Paving: No / Paving Width: N/A]

Year Constructed	Pavement	Attribute	Value	Aggregate	Pit / Source
		AWI (Actual)	283	2NS	72-006
		Application Rate	165 Pounds Per Square Yard	21A	13-078
		Asphalt Binder	PG 70-28P		

Segment Comments
[max 250 characters]

Back Save Segment Save Segment As Draft Cancel

Segment Summary

Segment Summary

Job Summary

Job Number	Work Type	Fix Life (Yrs)	Cost ^[1] / Lane Mile (\$)	Date	Lanes	Special Project Type	Pavement Study Number
80912	163 - Concrete Reconstruction	26		09/20/2016 ^[4]	0	N/A	N/A

^[1] - Construction Cost or A Phase CTD from MPINS / ^[4] - Open to Traffic Date / ^[3] - Let Date / ^[2] - A Phase start date / ^[4] - Sufficiency Year Imp

Segment Details

Region	TSC	County	Route	PR Number	PR BMP	PR EMP
Bay	Huron	St. Clair	M-19	961905	4.465	4.499

Median Type: Undivided / Median Width: 0 ft

Lane [1.0], Lane Type [Mainline], Sectional Details [Surface Type:HMA full depth / Width: 12.00 ft / Partial Width Paving: No / Paving Width: N/A]

Year Constructed	Pavement	Attribute	Value	Aggregate	Pit / Source
		AWI (Actual)	283	2NS	72-006
		Application Rate	165 Pounds Per Square Yard	21A	13-078
		Asphalt Binder	PG 70-28P		
		Asphalt Binder Certified Supplier	Ajax Asphalt Terminal, Detroit, MI		
		Mix Design No. (Case Sensitive)	13MD299		
		Mix Type - HMA Top Course	5E3		
		Shingles Used	N		
		Warm Mix	N		
		Application Rate	220 Pounds Per Square Yard	22A	13-003
		Asphalt Binder	PG 70-28P	2NS	72-006
		Asphalt Binder Certified Supplier	Ajax Asphalt Terminal, Detroit, MI		
		Mix Design No. (Case Sensitive)	13MD297		

SAVE JOB AS DRAFT OR FINALIZE JOB

❑ Save Job as Draft:

- **Data Entry user:** Saves and keeps the job in the Modify area
- **Data Owner user:** Saves and moves the job from the Review area back to the Data Owner's Modify area

❑ Finalize Job:

- **Data Entry user:** Saves and moves the job to the Data Owner's Review area
- **Data Owner user:** Finalizes and sends the job to the PHD database

Post Construction Data | Modify List

Search Filter [Show] ▲

Job [80912] has been saved as a Draft.

MAP Job ID ▲	Non MAP Job ID	Non MAP Job Type	Work Type
33333	—	—	310—New Routes
45824	—	—	169—Cncr Pk Rubb & Bit Resurf
80912	—	—	163—Concrete Reconstruction
83996	—	—	170—Major Rehabilitation
84072	—	—	163—Concrete Reconstruction

Page: 1 of 7

Post Construction Data | Road Segment List

Job Details [80912 / 163 - Concrete Reconstruction] [Show] ▲

Edit Job Details

PR Segment List [Hide] ▼

#	PR Number	PR(v)	BMP	EMP	Route	Direction	Framework Status	Data Status
1	962706	16	10.505	10.789	I-69	E	Active	Complete
2	962706	16	10.789	11.123	I-69	E	Active	Complete
3	962706	16	11.123	11.554	I-69	E	Active	Complete
4	961905	16	4.465	4.499	M-19	N/S	Active	Complete
5	961905	16	4.499	4.719	M-19	N/S	Active	Complete

Change PR Segment Mile Point

Do you want to Save this job as a Draft?

☐ Prevent this page from creating additional dialogs.

OK Cancel

Save Job as Draft

miloginworkerqa.michigan.gov says:

Do you want to Finalize the job?

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Job [80912] has been finalized.

MAP Job ID ▲	Non MAP Job ID	Non MAP Job Type	Work Type
33333	—	—	310—New Routes
45824	—	—	169—Cncr Pk Rubb & Bit Resurf
83996	—	—	170—Major Rehabilitation
84072	—	—	163—Concrete Reconstruction
87379	—	—	405—Overband Crack Fill

Page: 1 of 7