PAVEMENT HISTORICAL DATABASE (PHD) REFRESHER TRAINING



November 2023



Training PresentationImage: 10:00 am to 11:15 amImage: Presentation Slides

Break □ 11:15 am **to** 11:20 am

Demonstration 11:20 am to 12:00 pm Example PHD data entry

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



I – Background

- 2 PHD Purpose and Uses
- 3 General Information
- 4 Data Entry Process Summary
- 5 PHD Enhancements and Changes
- 6 FAQ / Business rules
- 7 PHD Data Review & QA
- 8 Data Export & reports
- 9 Resources
- 10 Appendix: Data Entry Process

OUTLINE



BACKGROUND

WHAT IS PHD?

- □ Pavement Historical Database (PHD)
- □ MILogin application
- Centralized electronic data warehouse
- "As Built" pavement and material information on MDOT roadways
 - > All projects with pavement work for mainline,
 - ramps, shoulders, or curb & gutter $(\geq 0.1 \text{ mile})$
- Data can be searched, sorted, and exported

Job Details [208494 / 443 - One Course Asphalt Ov						Overlay]	[Show] 🛦
	Edit Jo	ob Details					
PR S	Segm	ent List					[Hide]▼
	#	PR Number	PR(v)	BMP	EMP	Route	Direction
0	1	1270204	22	5.519	6.569	M-26	2 Way
0	2	1270204	22	6.569	6.652	M-26	2 Way
0	3	1270204	22	6.652	6.696	M-26	2 Way

* Surface Typ (pavement cr section)	e ross- : HMA over existing	HMA 🗸
* Width	: 12 🗸 ft	t
* Lane Type	: Mainline	~
* Year [Paved	d/Placed] : 2023 [уууу]	
* Partial Widt Paving?	th : ○Yes [●] No	
	11 #303	
Lane Section	[Lane # 2.0]	
Lane Section #	Layer Name	Data Entry Status
Lane Section # 3	Layer Name	Data Entry Status Draft
Lane Section # 3 2	Layer Name HMA Top Course HMA Level Course	Data Entry Status Draft Draft

Pavement Attributes - HMA Top Co	urs	e .	
* Mix Type	:	5EML	~
* Mix Design No (Case Sensitive)	:	23MD133	
* Application Rate	:	165 ✔ #/syd	
* Asphalt Binder	:	PG 64-28	~
* Asphalt Binder Cert. Supplier	:	BP, Bay City, MI	~
* Asphalt % (Total)	:		
* Asphalt Binder %Added (Virgin)	:		
* AWI (Actual)	:	260	
* Warm Mix?	:	🔾 Yes 💿 No	
* Shingles used in the mix?	:	🔾 Yes 🔍 No	





Provides a robust database of MDOT public asset information Location // Length // Geometry // Materials

- *
 HPMS Reporting (Highway Performance Monitoring System)
- Pavement Management Process Plan (PaveMaPP)
- * Devement Management Data Analysis

□ Scoping, Estimating, Design, Maintenance, and Forensic Analysis

- □ Materials or Work Type Trend Analysis
- □ Sufficiency Data and Historical Research
- □ Permanent Database for the Michigan Trunkline Highway System



More Efficient



Faster



Smarter





□ Highway Performance Monitoring System (HPMS) reporting

- HPMS is the official federal government source of data on the <u>extent</u>, <u>condition</u>, <u>performance</u>, <u>use</u>, and <u>operating characteristics</u> 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.



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 for use in RSL estimation/reporting.



Pavement Management Data Analysis

- MDOT Pavement Performance Monitoring process
 - > Determine <u>Fix Lives</u> and <u>Service Lives</u> for each programed job.
 - The (PAVETrack) application monitors, analyzes, and reports on the historical performance of MDOT pavements.



- Part of the MDOT's Life-Cycle Cost Analysis (LCCA) process
- PHD is the primary source of all new R&R and CPM project segments that will be brought into PAVETrack to be monitored and included in future analyses.
- "As Built" pavement and material information, not what was initially designed or planned
- Most Non-Let maintenance projects can only be tracked in PHD



□ 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.

Permanent Database for the Michigan Trunkline Highway System

- Due to the State of Michigan's Data Retention & Disposal Schedules, including MDOT's Data Retention Cycle, some construction-related data might be lost, or might not be easily accessible, after several years.
- PHD is designed to permanently store "As Built" pavement typical section information and materials data.
- The data can be quickly and easily searched, sorted, and exported.



GENERAL INFORMATION

PHD USER ROLES (ACCESS LEVEL)





PHD WORKFLOW

Data Collector

- Gather construction records and assemble information
- Segment job into unique segments (≥0.1mi)

Data Entry User

- Review all collected information
- Enter data into PHD
- Check completed work
- Send PHD job to Data Owner for Review/QA

Data Owner User

- Review the job for errors/omissions
- Finalize if <u>no</u> 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





Collect Data

Enter Data

into PHD

Review Data

in PHD

Finalize Data

in PHD

DATA ENTRY TIMELINE

- Collect: <u>during</u> construction
 Enter: <u>during</u> construction & <u>complete</u> entry after job complete
 - Due date is January 31st, 2024 for projects completed in 2023
 - Allows MDOT to meet annual federal reporting requirements (HPMS) & entry is completed before start of next construction season
 - 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)



ldeally

WHAT IS ENTERED?

All projects with pavement work on MDOT trunkline for <u>mainline</u>, <u>ramps</u>, <u>shoulders</u>, or <u>curb & gutter</u> (≥ 0.1 mile) is required

Let jobs: programed jobs in the JobNet application (Planning Database)



- Non-let jobs: Maintenance projects, Transportation Work Authorizations (TWA), Direct Forces Work, Warranty work, and Permits
- Pavement work: HMA/Conc. layers, CPM, repair work (joint sealing, Detail 7's & 8's, etc.)
- □ Projects <0.1 mile are optional
- □ No local road work
- ☐ "As Built" pavement and material information



DATA HIERARCHY IN PHD



DATA HIERARCHY IN PHD



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

Segments (i.e., PR from BMP to EMP)

PR	PR Segment List [Hide] ▼								
	#	PR Number	PR(v)	BMP	EMP	Route	Direction	Framework Status	Data Status
0	1	1590804	23	0	0.03	James Couzens Fwy		Active	Draft
0	2	1590804	23	0.03	0.331	James Couzens Fwy		Active	Draft
0	3	1590804	23	0.331	3.5	James Couzens Fwy		Active	Draft
0	4	1577510	23	0	0.085	M-10	WB	Active	Draft
0	5	1577510	23	0.085	3.414	M-10	WB	Active	Draft
0	6	1577510	23	3.414	3.726	M-10	WB	Active	Draft



SEGMENTS IN PHD

□ Roadway locations are entered into PHD by their <u>PR number</u> and <u>PR milepoints</u>

- PR = Physical Reference
- Number = Unique roadway numerical name
- Milepoint = Linear location of that referencing system

Use **MDOT PR Finder** for numbers and milepoints





□ New segments or sub segments are <u>required</u> — 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 < 0.10 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 (MAINLINE)



SEGMENTATION EXAMPLE (RAMP)



DATA HIERARCHY IN PHD





- Lanes are always numbered <u>right to left</u> facing toward increasing milepoints in the PR segment (no matter the traffic direction)
- □ <u>Lane 1</u> 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)





LANE NUMBERING (EXAMPLE)







DATA HIERARCHY IN PHD





SHOULDER, CURB & GUTTER DIRECTIONS

The shoulder/C&G sides, right or left, are established by using the direction of increasing PR milepoints



DATA HIERARCHY IN PHD





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 <u>including inner</u> <u>shoulders</u>, 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



LAYERS AND ATTRIBUTES

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

Paved/placed material: HMA layer(s), PCC pavement, chip seal, etc.

<u>Repair work</u>: asphalt joint/crack repair, HMA cold milling, Overband Crackfill, concrete pavement repairs (Detail 7's & 8's), etc.

 \Box A comprehensive list of all <u>layers</u> and their associated attributes is available in the "PHD Data Spreadsheet" and "PHD Attribute Locations" documents, on the MDOT PHD website.





3					
Select a Layer [Job # - 124046 / PR # - 1590804/ MP :0 0.03]					
Layer : HMA Cra	ck 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 Crac	k Treatment				
* Cut and Seal Method	: Routed				
* HMA Crack Seal Manufacturer	Crafco, Inc.				
* HMA Crack Seal Product Name : Deery 101 ELT					
* Was Overband also used?	: 🔾 Yes 🔍 No				





Layers/work items should be entered in order of construction

□ Only enter layers paved/placed in the current job

• Existing layers or layers <u>paved/placed in other jobs</u> should <u>not</u> be entered with the <u>current job</u>


ALL LAYERS/REPAIR WORK ITEMS IN PHD

Agg. Base Course – Cement Stab.	Crack Relief Interlayer/DRM	HMA Separator Course **	Precast Concrete Pavement		
Aggregate Base Course	Cracked and Seated Concrete	HMA Skip Patching New Layer	Roadway Embankment		
Brick Pavers	Crushed and Shaped HMA	HMA Top Course **	Rubblized Concrete Pavement <u>New Attr.:</u> Rubblizing Equipment Type		
Brick Seal	Diamond Grinding/Grooving	HMA Ultra-Thin Overlay **	Scrub Seal		
Chip Seal	Dowel Bar Retrofit	HMA Wedge Course **	Subbase		
Cold In Place Recycled Asphalt	FiberMat	Hot In Place Recycled Asphalt	Subgrade Stabilization		
Cold Milling	Fog Seal	Joint/Crack Repair Mastic	Subgrade Undercut		
Concrete Pav. Crack/Joint Sealing	Geotextile Fabric	Micro-surface <u>New Attr.:</u> Rut Fill Layer (Y/N)	Void Reducing Asphalt Membrane New Layer		
Concrete Pav. Repairs (Detail 7's & 8's)	High Friction Surface	Overband Crackfill	** <u>New attributes:</u> Asphalt % (Total) Asphalt Binder %Added		
Concrete Pav. Repairs (Full Depth)	HMA Base Course **	Pavement Jacking	Archived Layers:		
Concrete Pav. Repairs (Partial Depth)	HMA Crack Treatment	Paver Placed Surface Seal	Corduroy Micro-surface (Rut Fill Layer)		
Concrete Penetrating Sealer	HMA Leveling Course **	PCC Pavement	Overband Crackfill PreTreatment Slurry Seal		

ATTRIBUTES

Select a Layer [Job # - 124046 / PR # - 1590804/ MP :0 0.03]									
Layer : HMA Top C	Course 🗸								
Pavement Attributes - HMA Top Course									
 Mix Type Mix Design No (Case Sensitive) Application Rate Asphalt Binder Asphalt Binder Cert. Supplier Asphalt % (Total) Asphalt Binder %Added (Virgin) AWI (Actual) Warm Mix? 	: 5EML : 23MD262 : 165 : PG 64-28 : Interstate Asp : . : . : . : .	✓ #/syd Dhalt, Manistee Asphalt Term., Mani	Manistee, MI 'alue] 'alue] 'alue]	2 2					
* Shingles used in the mix?	: O Yes O M	Yes No							
If Warm Mix, water Foaming? If Warm Mix, select Additive	Yes ∪ N : - No Additive,	No . Water Foaming Only -		~					
Select New Aggregate		Aggregate Summary							
* Aggregate : Select an Aggregate	• •	Aggregate	Source						
Source :]	Sand LWCD	72-006 60-018						
Add Aggregate		H2	49-065						
		1/8- (Dust) C	72-027						
		3/8-1/8 C	72-027						

Add Aggregates Edit Aggregate Remove Aggregate

[Michigan Depa of Transporta 1911 (03/14	rtment ation 4)			Ĥ	JOB IMA F	MI) FIEI	X FOR LD CO	MU		(JMF) CATIO	N			Clea	() Dorm
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	5EML	TURE		MIX DESIGN	3MD26	52	Va	acuum extr	actior	0	4/26/2023	DATE	TO PRO	JECT ENG	GU PLAN GINEER	
	STAND. SPEC	DATE	MIX SI	P. PROV. DA	E QC/Q	A SP. PR	OV. DA			VFA		% AIR VO	IDS	ANGULA	RITY D	UST CORR.
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	P 1" (25.0 n	nm)		100.	00				H2				4	9-065		16.0
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	P 1/2" (12.5	ō mm)		100.	00			3/8-1/8 C				72-027			16.0	
	P 3/8" (9.5	mm)		97.3	20											
	P No. 4 (4.	75 mm	1)	83.0	00											
	P No. 8 (2.3	36 mm))	65.3	20											
	P No. 16 (1	.18 mn	n)	49.3	20											
	P No. 30 (6	00 µm))	38.1	0											
	P No. 50 (3	00 µm))	18.	50	RECLAI	RECLAIMED RAP (Yard 4.93%)				AC)			21.0		
	P No. 100 (150 µn	n)	8.0	0	FILLER										
	P No. 200 (75 µm))	5.8	0	ASPHAL	LT BIND	DER	GRADE PG (: 64-28	CERTIFIED S	SUPPLIER e / Mani	R/LOCATI stee / A	ON/CERT	# % AD	DED 5.12
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	REMARKS:														20	
	Warm Mix	k utili	izing \	Water Fo	aming	for bit	ume	n Introdu	iction	but p	roduced	at regu	ılar mi	xing		

DATA ENTRY PROCESS (SUMMARY)

PHD DATA ENTRY PROCESS

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

□ **Modify** the job

(start the data entry process)

I: Post Construction Data | Modify List Role[s] :: Data Owner , System Administrato Post Constr. Data Search Filter [Hide] V Create Job Type : O JobNet Job O Non JobNet Job 💿 Both » Modify Work Type : Any \mathbf{v} » Review Non JobNet Work Type JobNet Job » Reassign Non JobNet Job ID » Layers Library 109854 110-Non-Freeway Sign Replacement 124046 120-Intersection Improvement orts & Search 008404 443—One Course Asphalt Ov dministration 208759 _ 408-Milling & One Course Asphalt Overlay _ 208813 684—Milling and Two Course Asphalt Resurfacing

Finalize the job (by Data Entry user)



Review & Finalize the job (by Data Owner user)

ost Constr. Data	Post Construct	tion Data Modify List		Role[s] :: Data Owner , System A	dministrator
Create	Search Filter			[1	Hide]▼
Modify	Job Type	: 🔿 JobNet Job	O Non JobNe	et Job 🔎 Both	
Review	Work Type	: Any			~
Reassign	JobNet Job ID ▲	Non JobNet Job ID	Non JobNet Job Type	Work Type	
Layers Library	109854	-	-	110—Non-Freeway Sign Replacement	
eports & Searches	124046	-	-	120-Intersection Improvements	
	208404			443—One Course Asphalt Overlay	
dministration	208759	-	-	408-Milling & One Course Asphalt Over	ay
	208813	-	-	684—Milling and Two Course Asphalt Res	surfacing



Review &

PHD DATA ENTRY PROCESS

□ In the **Demonstration Section**, we will highlight recent changes in PHD interface

- □ The Appendix (slides 81 138) 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
 - $\circ~$ View MAP function
 - Layers Library
 - Using copy functions (copy segment, copy lane, copy layers, etc.)

Finalize Jobs



Simplified CPM Jobs in PHD

- Jobs with WTC from 400 499 are **Capital Preventative 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



Segment Should	der Overview		Segme	ent Sections			
	Left	Right	#	Layer Name	Data Entry		
Work Done	No	No			Status		
Status				Move	Up Move Down Remov		
Segment Curb & Gutter Overview				New Laver			
	Left	Right	Lawar	Coloct a Laver			
Work Done	No	No	Layer	: Select a Layer	•		
Status					Add Layer		
Shoulder, Curl	b & Gutter Details		Select a Layer from the Layers Library				
			Layer : Select a Layer 🗸 🗸				
Year [Paved,	/Placed] :	[уууу]			Add Layer		
]		

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

Job Details	
JobNet Job ID Work Type Code Fix Life	: 217463 : 456 - Asphalt Crack Treatment : 3 Year(s)
* Use SIMPLIFIED CPM format for data entry? [only use when all lanes and work is the same]	: • Yes O 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]
Back Save & Next Cancel	

Most other PHD screens, functions, and selections are similar to Standard format jobs

See the Appendix (slides 81 – 138) for more details



Michigan Department of Transportation **Job Net** Creating and Managing MDOT Jobs

- □ JobNet Jobs (formerly known as MAP jobs)
 - Programmed jobs in the JobNet database, with MDOT Job Number (JN)
 - Almost all JobNet Jobs are let through the MDOT bid letting system
- □ Non JobNet Jobs (formerly known as Non-MAP jobs)
 - Not programmed in the JobNet database (no MDOT Job Number)
 - Not let through the MDOT bid letting system
 - Include work performed by/through maintenance-funded work, TWA, Direct
 Forces Work, Warranty Work, and Permits



Non JobNet NAMING CONVENTIONS

<u>Project</u> Type	<u>Definition</u>	PHD Naming Convention
Maintenance	Maintenance-funded work not let through MDOT (not programmed in JobNet), performed by MDOT or another agency.	Use the prefix "M" followed by the job number . <u>Example:</u> M21550
TWA	Transportation Work Authorization funded projects. Usually for projects bid through the county/city.	Use the prefix "TWA" followed by the TWA number (the MDOT Region financial analyst can provide the number) <u>Example:</u> TWA226101
Warranty	Work performed under the terms of a project warranty.	Use the prefix "W" followed by the original 5 or 6 digit job number . Example: W40542
Direct Forces Work	Work performed by MDOT employees (maintenance crew facility and/or a maintenance garage) or contract county forces.	 Create a direct forces work reference number for PHD use only. Use the following conventions: DYYYYCNrouteBMP The prefix "D" followed by four digits representing the year. The two-digit county number. The route name (with a hyphen as separator). Ex., "US-31" or "US-31BR". The PR beginning milepoint (including decimal point). Example: D202132M-1388.954
Historic	Projects let and constructed by MDOT prior to the implementation of MAP and/or JobNet databases.	Use either the project number from the title sheet of the historic plans or the records used for the data entry. Example: 53201
Permit	Work constructed by others under permit; i.e., widenings for commercial driveways or utilities work.	Use the prefix "P" followed by the last 10 digits of the permit number . The TSC permit agent will be able to provide this information. <u>Example:</u> P0003090010

□ Fix Life entry at job creation

- In the past, Fix Life was an optional entry for Non JobNet (Non-MAP) jobs
- Now, Fix Life is a required input for Non JobNet (Non-MAP) jobs
 - Per MDOT's Roads & Highways (PaveMaPP team), Fix Life from PHD is a major input for use in <u>RSL estimation/reporting</u>
 - > At job creation, and once a WTC is selected, the Fix Life will be auto filled
 - > If the Fix Life is a **low/high range**, PHD will auto populate the **highest value**
 - ➢ Fix Life Guidelines are available



Job Details	
Non JobNet Job ID	: M147854
* Non JobNet Job Type	: Maintenance "M" Funded V
* Work Type Code	: 684 - Milling and Two Course Asphalt Resurfacing 🗸
* Fix Life	: 18 Year(s) <u>Fix Life Guide</u>

□ Projects with new PR# and/or changed MPs

- In the past, PHD will *not* allow creating any segment with new PR number and/or recently changed MPs (pending the availability of the new PR framework)
 - > New ramp, new roundabout, or other type of alignment changes
 - > Data entry delayed until next year when that framework is available
 - > PR framework: the linear referencing system (LRS) currently v23
- Now, users can create & edit segments with 'Future' PR framework
 - > But **cannot finalize the job** until the new framework is available

ČMDOT

Create PR Segment [Job # - 208494]									
Latest PR Version	PR Number*	BMP*	EMP*						
22 🗸									
22 Euture									
Create Create an	d Add One More	Back							

Layers Description & Attribute Locations

- For each layer in PHD, informational text was added to guide the user about:
 - Layer Description
 - Where to locate **layer attributes** using the construction-related documents

Select a Layer [Job # - 208494 / PR # - 1270204/ MP :5.	519 6.569]								
Layer : Chip Seal ~	·								
The application of a polymer modified asphalt emulsion with a cover aggregate. A single or a double chip seal can be used.									
Locate layer attributes using the following construction-related documents:									
 For Emulsified Asphalt Supplier and Emulsion Type, use Material Source List (Form 0501). For Number of Courses, use the IDRs (Form 1122B) or ?As Built? Plans & Proposal. For Aggregate Class and Source (pit number), use Aggregate IDR (Form 1900) or Material Source List (Form 0501). 									
Pavement Attributes - Chip Seal									
* Emulsion : Select Emulsion		~							
* Emulsified Asphalt Supplier : Select Emulsified Asp	halt Supplier	~							
* Number of Courses :	[Numeric Value]								
Select New Aggregate	Aggregate Summary								
* Aggregate : Select an Aggregate 🗸	Aggregate	Source							
Source :	Empty - Add Aggregates								
Add Aggregate									
	Add Aggregates Edit Aggregate	Remove Aggregate							



Quick Layers

- Completed layers can be saved, then applied into different lanes and shoulders
- Reduce data entry and save users' time
- In the past, it only applies to saved layers within the same project

Layers Library

- Quick Layers are now called Layers Library
- Now, users can save and apply saved layers in the same project or different projects for the same user

	- Post Co	nstr. Data	:: Post Constru	uction Data Laye	erview Role[s] :: Data Owner , System Administrator							
_	» Creat	te	Create/Modif	fy Layers								
			Select New Layer				Layers List					
	» Modi	ту	Layer :	Select a Layer	~	#	Layer	User Specified Name	Data Entry			
	» Revie	ew.	User	· · · · · · · · · · · · · · · · · · ·			Owenhand		Cratue			
	» Reas	sign	Specified : Name			4	<u>CrackFill</u>	Overband Crack Fill	Complete			
r	» Laye	rs Library		A	dd Layers	2	PreTreatmnt HMA Top	Тор	Complete			
	+ Reports	& Searches				3	Course	Course_JMF215777	complete			
						2	<u>HMA Top</u> <u>Course</u>	Top Course_JMFMD215894	Complete			
	+ Adminis	tration				1	<u>Cold Milling</u>	Milling	Complete			
									(Remove		



□ Apply/Use saved Layers

- In the past, users can apply saved layer only through the Quick Layer Overview (job's main screen)
- Now, users can also apply saved layers while working within a Lane/Shoulder
- Simply, instead of adding a New Layer, users can add a layer from the Layers Library

PR Segme	ent List							Hide]▼	Seg	ment L	.anes					Selecte
#	PR Number 1725704	P R(v) 23	BMP	EMP	Route	Direction	Active	Data Status Draft	Sel	ect Lan	e : Lane #1.0	~	Work Done	: 0	Yes	1
2	1725704 2	23	9.604	9.677	US-23	2 Way	Active	Draft	Add	Left Lane	Add Right Lane Copy Lane	Remove	Lane	01	NO	
Lanes and	d Shoulders								Lan	e Secti	on [Lane # 1.0]					
	# <u>3.0</u>			Lane/	Shoulder .ane				#		Layer Name		Data Entry Status			
	2.0			L	ane				1		Cold Milling		Complete			
	<u>1.0</u> <u>Left</u>			L	ane oulder							M	ove Up Move Down	Remove		
	<u>Right</u>			Sh	oulder				Sel	ect Nev	v Layer					
		Add	Library La	ayer ^]				Lay	er : 🔅	Select a Layer	~	Add La	iyer		
Layers Li	st								Sol	oot o L	over from the Lovers Lil	aran/				
— #	Layer Nar	me	User Sp	pecified Na	ime Data En Status	try s			Lav	er : F	MA Top Course-Top Cours	se IME21	5777 🗸			
4	Overband CrackFill PreTreatmnt		Overban	nd Crack Fi	ll Complete				Luy	5	Select a Layer Dverband CrackFill PreTrea	atmnt-Ove	erband Crack Fill			
2 3	НМА Тор Соц	urse	Top Course_	JMF21577	7 Complete					ŀ	IMA Top Course-Top Cour IMA Top Course-Top Cour	se_JMF21 se_JMFME	5777 0215894			
2	HMA Top Cou	urse	Top Course_	JMFMD215	894 Complete					C	Cold Milling-Milling					
□ 1	Cold Milling		Milling		Complete								Add La	yer		

FAQ/BUSINESS RULES

□ 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

CONTRACT ID	CONTROL	SECTION	PROJECT
34043-202595	IM	34043	202595A
	IM	41024	208782A

□ Job numbers <u>without</u> pavement work are <u>not</u> entered

• **Examples:** Freeway lighting, landscaping, signing, etc.



JOB DATA ENTRY

How do I enter **Multi-year construction**?

- Keep it in **Draft status** until the project is complete
- Add notes to the Comment Boxes
- □ 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 <u>not</u> 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/MAP):
 - Change milepoints in PHD





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
- □ Ramps:
 - PR begins or ends at 2' point
 - Portions of ramp adjacent to mainline are entered with mainline to the 2' point



LANE, SHOULDER/CURB & GUTTER DATA ENTRY

□ Surface Type (pavement cross-section)

- All existing layers underneath the top surface placed with the project should be considered
- Consider the examples below:



* 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]



□ If entry for Layers, measurement units, suppliers, materials, or entry items are <u>missing</u> in PHD:

Contact the PHD Administrator







PHD DATA REVIEW & QA

DATA OWNER REVIEW

Data Owners review <u>all</u> segments/lanes/layers in a job

□ If Data Owner <u>finds errors/omissions</u>:

- Data Owner <u>makes changes</u> & <u>Finalize</u> job
- > **OR** Data Owner <u>reassigns</u> the job <u>back to Data Entry</u> user

— <
— <

- Post Constr. Data	Post Construction	Data Reassign List				Role[s] :: Data Owner ,	System Adminis	strator
» Create	Search Filter						[Hide] 🔻
» Modify » Review	Job Type Work Type	: O JobNet Job : Any	O Non JobNet Job	Both		~		
» Reassign	JobNet Job ID ▲	Non JobNet Job ID	Non JobNet Job Type	Work Type	Current	Assign To		Â
» Layers Library	33799	_	_	160— Reconstruction	Hamlin Alison	-Select User-		~
+ Administration	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-		~
			Update	129—Add Turn -	Loree	·		-

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 (<u>example</u>: 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





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





CENTRAL OFFICE QA

Part I – 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:

- <u>Export Data</u> generates selectable data items (Excel)
- Search Segment(s) finds segments within finalized jobs
- <u>Construction History Report</u> generates segment/job info (Excel or PDF)
- <u>Material Information Report</u> 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)
- <u>Work Type Report</u> finds segments by work type code (PDF or Excel)
- MAP 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
- » MAP Reconciliation

EXPORT DATA

- Shows segment data entry for a geographic area (Statewide, Regions, TSCs, and Counties)
- Various Export Types:
- Report per segment information (PR#, MPs, Route, etc.)

□ Reports in **Excel** format

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



Export Type	Selectable Items ((Column Headers)
Job Details	 Non MAP Job Type Special Project Type National Pavement Study Number State Pavement Study Number Work Type Code 	 Work Type Code Description Date (Open to Traffic) Date Type Fix Life Project Comment
Lane: Layers & Details	 Year (Constructed) Lane Number Lane Surface Type Lane Width 	 Lane Type Layer Number Layer Name Attributes (Name & Value)
Lane: Aggregates	 Year (Constructed) Lane Number Lane Surface Type Layer Number 	Layer NameAggregate NameSource/Pit Number
Shoulder: Layers & Details	 Side Indicator Surface Type Corrugations (Rumble Strip) Parking Lane Paved Width Total Width 	 Paved Thickness Paving Width Layer Number Layer Name Attributes (Name & Value)
Shoulder: Aggregates	Side IndicatorSurface TypeLayer Number	Layer NameAggregate NameSource/Pit Number
Curb & Gutter: Details	Side IndicatorAttributes (Name & Value)	
Median: Details	Median TypeMedian Width	

Export Type – Job Details

	С	D	E		Н				м	N	0	R	S	T	V
	PR							MAP Job	Non MAP	Non MAP		Work		Date (Open	
1	Number	PR BMP	PR EMP	Road Name	County	TSC	Region	ID	Job ID	lob Type	Special Project Type	Type Cod	Work Type Description	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	Burkett Rd	Missaukee	Traverse City	North		21-3123	TWA		15	Shoulder Rehabilitation	9/29/2021	14
58	1283009	1.997	2.018	Burkett Rd	Missaukee	Traverse City	North		21-3123	TWA		15	Shoulder Rehabilitation	9/29/2021	14

Export Type – Lane: Layer Details

	Δ	R	C	D	E	F	G	н		J	к	м	N	0
	PR	PR	PR	Road	County	TSC	Region	MAP	Year	Lane	Lane Surface Type	Layer Name	Attribute	Value
1	Number	BMP	EMP	Name				Job ID	(Constructed)	Number				
2	935207	25.359	26.023	W I 96	Livingstor	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	Livingstor	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	Livingstor	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	Livingstor	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 Fa	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 Fa	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 Fa	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 Fa	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 Fa	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 Fa	Superior	208474	2021	1	HMA over existing Jointed Conc	HMA Top Course	Mix Design No. (Case Sensitive)	21MD194



CONSTRUCTION HISTORY REPORT

- Report shows all <u>finalized</u> data entry (jobs) on a specified PR segment
- □ Search by CS#, PR#, 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



			Construction	n Histo	ory Rep	port						
	Job Summary											
	Job Number	Work Type	Fix Life (Yrs)	Cost ^[1] Mil	[]] / Lane le (\$)	Date	Lanes	Spec	ial Proje	ect Type	Pav	ement Study Number
	108909 408 Over	- Milling & One Course Aspl rlay	halt 7			07/19/2013 ^[a]	0		N/A			N/A
	^[1] - Construction AASHTOWare	n Cost or A Phase CTD from Project Open to Traffic Date	MPINS / ^[a] - Open / ^[f] - AP All Contra	to Traff to Work	fic Date / Comple	^[b] - Let Date / ^[c] ted Date	- A Pha	ase start	date / ^[d]	- Sufficien	cy Yea	r_Imp / ^[e] -
	Segment Detail Region	TSC	County			Route		PR Nu	umber	PR BM	P	PR EMP
	Grand	Grand Rapids	Kent		M-57			410710		5	5.107	5.209
Ì	Lane [1.0], Lan	e Type [Mainline], Sectional	Details [Surface Ty	pe:Flexi	ible / Wie	dth: 12.00 ft / Par	tial Wid	th Pavin	g: No / I	Paving Wid	th: N/A]
	Year Constructed	Pavement	Attri	bute		Valu	ie			Aggregate	•	Pit / Source
			AWI (Actual)		:	264			Man S	and		41-117
			Application Rate	e		170 Pounds Per S	quare Y	ard	3/8 x 4	l .		41-117
			Asphalt Binder		:	PG 58-28			2NS			41-117
			Asphalt Binder (Supplier	Certified	1	Michigan Paving Co., Monroe, MI	& Mate	rials	Reclai	med		41-000
		HMA Top Course	Mix Design No. Sensitive)	(Case		13MD241			Gray S	Sand		93-031
	2013		Mix Type - HM	A Top C	ourse	5E3						
			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**



Pavement		Attribute			Attribu	ite Value			
НМА Тор	Course	Asphalt Binde	r		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	-	-	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

Report Criteri	a		_					
Region	TSC	From Year	To Year	_				
Metro	All TSCs	2017	2020					
Report Data								
		Lane Mile	s (miles)	Volume (cu. yds)	/ Tonnage (tons)	Area (sq. yds)		
Region	TSC	PCC	HMA	PCC	HMA	PCC	HMA	
Metro	Detroit	27.33	74.92	190,820.39	530,680.44	65,329.29	49	
Metro	Oakland	0.00	11.51	0.00	79,633.78	0.00	8	
Metro	Taylor	0.03	0.95	315.96	6,607.18	105.32		
Metro	Macomb	0.00	127.02	0.00	885,264.65	0.00	121	
Metro Region Totals		27.36	214.40	191,136,34	1,502,186.06	65,434,61	179	

Reports & Searches

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



RESOURCES

RESOURCES

ProjectWise (PWise):	 <u>https://mdotjboss.state.mi.us/SpecProv/projectwisesupport.htm</u> Plans/proposal/addendum Pay Items/Tickets/Field Notes/Mix Designs
Construction Inquiry System:	 <u>https://mdotjboss.state.mi.us/CCl/home.htm</u> Summary of project items (pay items completed)
PR finder:	 <u>https://mdotgis.state.mi.us/portal/apps/webappviewer/index.html?id=c3aa2462a1e24e37a33184a33e5976aa</u> Find PR via CS, intersection, road name, interactive map
JobNet	 <u>https://miloginworker.michigan.gov/uisecure/selfservice</u> Find programmed MDOT jobs



PHD WEBSITE

Public:

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

MDOT Internal:

- <u>https://stateofmichigan.sharepoint.com/sites/mdot/Organizational/field_services/construction/phd/SitePages/Home.aspx</u>
- Links to Resources
- Helpful Documents:
 - PHD User Guide
 - FAQ, Business Rules
 - > Quick Reference Guide
 - PHD Attribute Locations
- Training Presentations
- Training/instructional videos





ADMINISTRATOR CONTACT



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REGION PHD LIAISONS

Region PHD Liaisons can help too!





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/LB2WPL9









Thank You!



QUESTIONS



APPENDIX DATA ENTRY PROCESS

CREATE NEW JOB SCREEN



Job ID naming conventions can be found in the <u>PHD User Guide</u>

IDOT

Job Types: Maintenance, TWA, Warranty, Direct Forces Work, Historic, & Permit

'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]	:	 CPM Emerging Technolo Demonstration Project National Pavement Stud State Pavement Studies 	gy Funded ies
* 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]

□ <u>Non</u> 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	: Select Non JobNet Job Type 🗸
* Work Type Code	: None 🗸
* Fix Life	: 0 Year(s) Fix Life Guide
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]



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 <u>remain</u> in the selected format





SIMPLIFIED CPM (Cont.)

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

- Does <u>not</u> 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 <u>Non</u> JobNet job, then the segments need to be created





Edit Job Details



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)
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.]	: 01/31/2023 [mm/dd/yyyy]

Job	Detai	ls [201	403 /	164 - A	sphalt Re	constructi	on]		I	Show] 🔺				
	Edit Jo	b Details												
PR	Segmo	ent List	t						[Hide]▼				
# PR Number			R Iber	PR(v)	BMP	EMP	Route	Direction	Framework Status	Data Status				
0	1	30908	36	23	0	0.068	M-25	NB	Active	Draft				
\bigcirc	2	30908	36	23	0.068	0.236	M-25	NB	Active	Draft				
\bigcirc	3	30908	36	23	0.236	0.29	M-25	NB	Active	Draft				
	Segmen	t Details		Сор	y Segment D	etails	Create Segment	Delete Segment	t(s) View Map					
Cha	nge P	R Segr	nent l	Mile Po	ints		Create PR S	ub Segments	;					
# I	PR Nu	mber	BMP		EMP	0.068	No. of Sub Segments : [At least 2]							
Apply	y Milepo	oint Chan	ges				Create Sub Seg	ments						
Proj [ma	ject C x 250	comme charac	e nts ters]							li				
	Back	k	Fina	alize Job	Save Job	as Draft	Cancel							
						Projec	t Summary							



CHANGE PR SEGMENT MILEPOINTS

- Select the segment radio button (1)
- \succ 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	Det	ails [2014	403 / 164 - A	sphalt Re	econstructi	on]		[Show] 🛦
	Edit	Job Details							
PR	Seg	ment List						[]	Hide] 🔻
# PR Number		er PR(v)	BMP	EMP	Route	Direction	Framework Status	Data Status	
1 3090836			36 23	0	0.068	M-25	NB	Active	Draft
\bigcirc	2	309083	36 23	0.068	0.236	M-25	NB	Active	Draft
\bigcirc	3	309083	36 23	0.236	0.29	M-25	NB	Active	Draft
:	Segm	ent Details	Cop	y Segment I	Details	Create Segment	Delete Segment	t(s) View Map	
Laye	ers Lik	orary Overvie	w						
		DD 0				0			
	inge DD I	PR Segm	ient Mile Po			Create PR S	sub Segments		
#	PRI		SIMP			No. of Sub	Segments	: [At le	ast 2]
1	3090	0836		0	0.068	Create Sub Seg	jments		
Appl	ly Mile	point Chang	es						
Pro.	ject	Commen	nts rers]						
Lina	17 20	o charact							
	B	ack	Finalize Job	Save Job	as Draft	Cancel			
					Projec	t 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

					0	Layers Library Overview	
				Cr	reate Sub Segments screen	Change PR Segment Mile Points Create PR Sub Segments	
Roa	ad So	egment [Job	# - 201403 / P	PR # - 3090836	/ MP : 0 0.587] [Show] ▲	# PR Number BMP EMP No. of Sub Segments [At least 2] 1 3090836 0 0.587 0.587 0.000	4
PR Sub Segment Summary					Add an additional PR Sub Segment	Apply Milepoint Changes (3) (2)	
	#	PR Number	BMP	EMP	PR BMP : PR EMP :		
	1	3090836	0	0.125	Add		
	2	3090836	0.125	0.369		Project Comments [max 250 characters]	
	3	3090836	0.369	0.587	(4)		-11
	De	lete			·	Back Finalize Job Save Job as Draft Cancel	
						Project Summary	
	В	ack	eate Sub Segmen	ts (5)			
	6 m						

Create Sub Segments

Direction

Delete Segment(s)

NB

NB

NB

Job Details [201403 / 164 - Asphalt Reconstruction]

PR(v)

0

0.587

0.852

Copy Segment Details

23

23

23

BMP

EMP

0.587

0.852

1.292

Route

M-25

M-25

M-25

Create Segment

Edit Job Details

PR

Number

3090836

3090836

3090836

PR Segment List

Segment Details

1

[Show]

[Hide]▼

Data

Status

Draft

Draft

Draft

ramework

View Map

Status

Active

Activ

Active

CREATE SEGMENT

- Click 'Create Segment' (1)
- ► E
- > (

			Edit J	ob Details							
Enter PR Number, BMP, & EMP (2)		PR	Segm	ent List						E I	Hide] 🔻
			#	PR Number	PR(v)	BMP	EMP	Route	Direction	Framework Status	Data Status
Click 'Create' or 'Create and Add One More	re' (3)		1	3090836	23	0	0.125	M-25	NB	Active	Draft
	••••	0	2	3090836	23	0.125	0.369	M-25	NB	Active	Draft
An error will occur if mileboints exceed the	DR langth	0	3	3090836	23	0.369	0.587	M-25	NB	Active	Draft
		\bigcirc	4	3090836	23	0.587	0.852	M-25	NB	Active	Draft
or PR is located outside of user Location Ass	ignment	\bigcirc	5	3090836	23	0.852	1.292	M-25	NB	Active	Draft
Create PR Segmen	t screen	Laye Cha	ers Libra ange F PR Ni	ary Overview PP Segment umber BMF	Mile Po	oints EMP	<u></u>	Create PR Su No. of Sub S	1) b Segments egments	: [At le	ast 2]
* = Required Fields (2)		1	30908 Iv Milen	336		0	0.125	Create Sub Segm	ents		
Create PR Segment [Job # - 201403]			.,								
Latest PR Version PR Number* BMP* EMP*]
23 961905 4.123 (3)	4.499	Pro [ma	ject ax 250	omments) characters							li
Create Create and Add One More Back	K		Bac	k Fi	nalize Job	Save Job	as Draft	Cancel			
							Projec	et Summary			

Job Details [201403 / 164 - Asphalt Reconstruction]



[Show] 🔺

□ 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 Field	ds		
Create PR Segment	t [Job # - 201403]		
Latest PR Version	PR Number	BMP*	EMP*
Future 🗸			
23 Future Create Create a	and Add One More	Back	



DELETE SEGMENT

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

EMP

4.465

4.499

0.125

0.369

0.587

0.852

1.292

(3)

Route

M-19

M-19

M-25

M-25

M-25

M-25

M-25

PR S	Segm	ent List				[Hide]				
	#	PR Number	PR(v)	BMP	EMP	Route	Direction	Framework Status	C St	
0	1	961905	23	4.123	4.465	M-19	2 Way	Active	Dra	
\bigcirc	2	961905	23	4.465	4.499	M-19	2 Way	Active	Dra	
\bigcirc	3	3090836	23	0	0.125	M-25	NB	Active	Dra	
\bigcirc	4	3090836	23	0.125	0.369	M-25	NB	Active	Dra	
0	5	3090836	23	0.369	0.587	M-25	NB	Active	Dra	
0	6	3090836	23	0.587	0.852	M-25	NB	Active	Dra	
0	7	3090836	23	0.852	1.292	M-25		Active	Dr	
S	Segmer	nt Details	Cop	oy Segment D	Details	Create Segment	Delete Segmen	t(s) View Map		
Cha # I	nge F PR Ni	PR Segment umber BMP	Mile Po	ints EMP	4.465	Create PR Su No. of Sub S	ub Segments Segments	: [At le	east 2	
1 3	50190		4.1	.25	4.405	Create Sub Segn	nents			

Project Summary

Delete PR Segment screen

Direction

2 Way

2 Way

NB

NB

NB

NB

NB



Select segment(s) to delete.

PR Segment Details [Job # - 201403]

PR(v)

23

23

23

23

23

23

23

Confirm

BMP

4.123

4.465

0.125

0.369

0.587

0.852

0

PR

Number

961905

961905

3090836

3090836

3090836

3090836

3090836

(2)

1

Back

Data

Status

Draft

Draft

Draft

Draft

Draft Draft

Draft

Framework

Status

Active

Active

Active

Active

Active

Active

Active



□ This function shows <u>all</u> Road Segment List segments in a map

- Click 'View Map'
 - The Map screen will a
 - Can add new segment segment milepoints, v

Dear	Job Details [201403 / 164 - Asphalt Reconstruction]									Show] 🔺	
		Edit Job Details									
, delete segments, change	ange PR Segment List [Hide] V										
w/print segments in map		#	PR Number	PR(v)	BMP	EMP	Route	Direction	Framework Status	Data Status	
1 0 1	\bigcirc	1	961905	23	4.123	4.465	M-19	2 Way	Active	Draft	
	\bigcirc	2	3090836	23	0	0.125	M-25	NB	Active	Draft	
	\bigcirc	3	3090836	23	0.125	0.369	M-25	NB	Active	Draft	
Map screen	\bigcirc	4	3090836	23	0.369	0.587	M-25	NB	Active	Draft	
	\bigcirc	5	3090836	23	0.587	0.852	M-25	NB	Active	Draft	
and a second sec	0	6	3090050	22	0.852	1.292	M-25	NB	Active	Draft	
State St	:	Segme	nt Details	Copy Segment Details		Create Segment Delete Segment		ver View Map			
	Layers Library Overview										
	Change PR Segment Mile Points Create PR Sub Segments										
	#	PR N	umber BMP		EMP		No. of Sub S	Segments	: [At l	east 2]	
	1	9619	05	4.:	.23	4.465	Create Sub Segn	nents			
	Appl	y Milep	oint Changes								
To the second se											
	Pro	ject	Comments								
	[ma	x 250) characters]								
		Bac	:k Fir	nalize Job	Save Job	as Draft	Cancel]			
						Droia	of Summary				
						Proje	ct summary				
9 – Data Entry Pro	cess									9	

(1) Map View Type

(2) Map Tools

(3) Map

(4) PR Segment List

(5) Back & Save



ČMDOT

□ Map View Types

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



□ 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





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





□ Save & Back

- > Click 'Save' to save all added segments, deleted segments, and/or milepoint changes made in the map
 - <u>Note</u>: 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 Number + PR(V) BMP EMP Route Direction
1905 16 4.499 4.719 M-19 N/S Act
5 16 10.505 10.789 I-69 E Act
962706 16 10.789 11.123 I-69 E Act
962706 16 11.123 11.534 I-69 E Act 5 961905
Apply Milepoint Chan
Save Project Commu

Edit Job Details



Role[s] :: Data Owne

[Hide

□ 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







EDIT SEGMENT DETAILS

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

0	b Deta	ils [201403	/ 164 - A	sphalt Re	constructio	on 1		1	Show 1
_			٦.			-		-	
	Edit J	ob Details	J						
PR	R Segm	ient List							Hide] ▼
	#	PR Number	PR(v)	BMP	EMP	Route	Direction	Framework Status	Data Status
) 1	961905	23	4.123	4.465	M-19	2 way	Active	Draft
C) 2	3090836	23	0	0.125	M-25	NB	Active	Draft
C) 3	3090836	23	0.125	0.369	M-25	NB	Active	Draft
C) 4	3090836	23	0.369	0.587	M-25	NB	Active	Draft
C) 5	3090836	23	0.587	0.852	M-25	NB	Active	Draft
C) 6	3090836	23	9.852	1.292	M-25	NB	Active	Draft
	Segme	nt Details	Cop	y Segment I	Details	Create Segment	Delete Segment	(s) View Map	
Lay	ers Libr	ary Overview							
Ch	ange I	PR Segmen	t Mile Po	ints		Create PR S	ub Segments	i	
#	PR N	umber BM	P	EMP		No. of Sub	Segments	: [At le	east 2]
1	9619	05	4.1	.23	4.465	Create Sub Seg	ments		
Ap	ply Milep	oint Changes							
		_							
Pr [m	oject (lax 250	Comments) characters	;]						li
Pr [m	oject (lax 250 Bac	Comments) characters :k F	inalize Job	Save Job	as Draft	Cancel]		

Segment Deta	ils [Job # - 200]	711 / PR # - 313	0113 / MP	: 0 0.162]	[Show] 🔺
Segment Should	er Overview		Segmen	t Lane(s) Overview	
	Left	Right	Lane #	Work Done	Status
Work Done	Yes	Yes	4.0	Yes	Draft
Status	Draft	Draft	3.0	Yes	Draft
Seament Curb &	Gutter Overview		1.0	Yes	Draft
o ginone o ano a	Left	Right	Lane	Details	
Work Done	No	No			
	NO	NO			
Status					
Shoulder, Curb	& Gutter Details				
Median Overviev	v				
	·		-		
* Median Type 🕴	Undivided	~			
Segment Comments					
max 250					
characters]					

EDIT SEGMENT DETAILS: SEGMENT OVERVIEW SCREEN

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



SEGMENT OVERVIEW SCREEN

Pre-population of Segment Details Example: JN 119085, 1-475 Reconstruct

- □ Segment Info for PR 1497903, MP 11.310 11.342
 - Pre-populated:
 - <u>Lanes</u> = 4 lanes (1.0, 2.0, 3.0, 4.0)
 - <u>Shoulders</u> = Left & Right Side
 - <u>Median Type</u> = Concrete Barrier
 - <u>Median Width</u> = 26'
 - Never Pre-populated:
 - Curb & Gutter
 - Must Add and Modify manually

::	Post Construction Dat	a Segment Over	view			Role[s] :: Data Owner		
S	egment Details [PR # - 149790	3 / MP:11.31	11.342]	[Show] 🔺		
Se	egment Shoulder Ov	verview		Segment	Lane(s) Ove	rview		
		Left	Right	Lane #	Work E	Oone Status		
N	/ork Done	Yes	Yes	4.0	Yes	Draft		
s	tatus	Draft	Draft	3.0	Yes	Draft		
۲,	amont Curb & Cutt	or Ovorviow		2.0	Yes	Draft		
3	egineni Curb a Outi	er Overview		1.0	Tes	Drait		
		Left	Right	Lane	Details			
N	/ork Done	No	No					
s	tatus							
	Shoulder, Curb & Gut	ter Details		1				
				- 1				
м	edian Overview							
•	Madian Type 1 Concrete Barrier							
Ι.								
	Median Width :	26 ft		1				
S e [n	egment Comments nax 250 characters]	5						
	Back Sar	ve Segment Save S	Segment As Draft	Cancel				
			Segment Sum	mary				



SEGMENT OVERVIEW SCREEN: SIMPLIFIED CPM



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

Median Overview Median Type : Undivided	Median Overview * Median Type : Select a Median * Median Width : Undivided * Median Width : Concrete Barrier Guardrail Cable Guardrail Raised Island with Curb Thick, impenetrable Vegetation Segment Comme Graded with ditch [max 250 characte Flat (paved and unpaved)	Shoulder, Curb & Gutter Details Median Overview * Median Type : Select a Median * Median Width : ft Segment Comments	~
Median Overview * Median Type : Graded with ditch ✓ * Median Width : 30 ft	Median Overview * Median Type : Other * Other : Mountainous	[max 250 characters] Back Save Segment As Draft Cancel Segment Summary	~
EMDOT	Median Width : ft 9 – Data Ent	try Process	105

Segment Shoulder Overview

Segment Curb & Gutter Overview

Work Done

Status

Left

Left

No

Right

Right

No

Segment Lane(s) Overview

Lane Details

Lane #

Work Done

No Lanes Defined

Status

SEGMENT OVERVIEW SCREEN: LANE DETAILS

Click 'Lane Details'

The Lane Summary screen will appear

gment Shoulde	er Overview		Segment	Lane(s) Overv	iew
	Left	Right	Lane #	Work Do	ne Status
ork Done	Yes	Yes	4.0	Yes	Draft
atus	Draft	Draft	3.0	Yes	Drate
gment Curb &	Gutter Overview		1.0	Yes	Draft
	Left	Right	Lane	Details	K
ork Done	No	No			` \
tatus					
e dian Overview Median Type Median Width	: Select a Median : 0.0 ft	~			
egment omments nax 250 aracters]					
Back	Save Segment Save	e Segment As Draft	Cancel		

Segment Details [Job # - 201403 / PR # - 961905 / MP : 4.123 4.465]	[Show] 🔺
Segment Lanes	Selected Lane
Select Lane : Lane #2.0 Vork Done : Yes No	2.0
Add Left Lane Add Right Lane Copy Lane Remove Lane	_
<u>NOTE</u> : Lanes are always numbered right to left facing toward increasing milepoin 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.	ts of the PR
Lane Details [Lane #2.0]	
*Surface Type (pavement cross- section)	
* Width : 12 🗸 ft	
* Lane Type : Select Lane Type 🗸	
* Year [Paved/Placed] : 2023 [YYYY]	
* Partial Width : O Yes No Paving?	
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 🗸	
* = Required Fields	
Back Save Lane Save Lane As Draft Cancel	
Copy Lane Layers to Shoulder(s)	

EDIT LANE DETAILS

- (I) Segment Details Info
- (2) Segment Lanes
 - Add a lane, remove a lane, copy lane details (from one to another)

[1]

Back

Copy Lane Layers to Shoulder(s)

9 – Data Entry Process

Save Lane

Save Lane As Draft

- (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)

Segment Details [Job # - 201403 / PR # - 961905 / MP : 4.123 ... 4.465] [Show] Segment Lanes Selected Lane 2.0 🔘 Yes Select Lane : Lane #2.0 ~ Work Done Add Right Lane Copy Lane Remove Lane Add Left Lane NOTE: Lanes are always numbered right to left facing toward increasing milepoints of the P(3) segment: 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 : HMA over existing Jointed Conc (pavement crosssection) : 12 ✓ |ft Width (4) : Select Lane Type ~ Lane Type 2023 [уууу] Year [Paved/Placed] : Partial Width : 🔾 Yes 🔘 No Paving? Lane Section [Lane # 2.0] Data Entry Layer Name Status Move Up Move Down Remove (5) Select New Layer Layer : Select a Layer ~ Add Laver Select a Layer from the Layers Library Layer : Select a Layer ~ Add Layer = Required Fields 6

Cancel

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



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 Whitetopping Brick Other

Lane Details [Lane #0.0]	Select Lane Type
* Surface Type : HMA full depth 🔻	Buffer Space Center Left Turn
* Width : 12 ▼ ft	Left & Right Turn Left Turn Mainline
* Lane Type : Right Turn ▼	Median Turnaround
* Year [Paved/Placed] : 2018 [yyyy]	Off-Ramp On-Ramp
* Partial Width : O Yes No Paving?	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 v ft
* Lane Type	: Mainline 🔻
* Year [Paved/Placed]	: 2018 [yyyy]
* Partial Width Paving?	: 🖲 Yes 🔘 No
* Paving Width	: 3 • ft



 \succ Select a layer from the Layer drop-down list (1)

MDOT

- > Click 'Add Layer' (repeat until all layers are added) (2)
- > Click on the layer in the Lane Section box to begin editing (3)

Indard Full	Segment Lanes Selected Lane	Image: Post Construction Data Segment Overview Role[s] Image: Data Owner , System Administrator Image: Post Construction Data Segment Overview Role[s] Image: Data Owner , System Administrator	Simpli
b Entry	Select Lane : Lane #1.0 V Work Done : Yes No Add Left Lane Add Right Lane Copy Lane Details Remove Lane	Segment Details [PR # - 768604 / MP : 0 1.293] [Show] ▲	СРМ
•	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.	Segment Shoulder Overview Segment Sections Left Right Work Done No	Job Er
	Lane Details [Lane #1.0] * Surface Type : HMA full depth	Status Move Up Move Down Remove Segment Curb & Gutter Overview Select New Layer	
	* Width : 12 v ft * Lane Type : Mainline v	Work Done No No Status Add Laver	
	* Year [Paved/Placed] : 2014 [yyyy] * Partial Width Paving? • No	Shoulder, Curb & Gutter Details	
[Lane Section [Lane # 1.0] (3) # Layer Name Data Entry Status	* Year [Paved/Placed] : [yyyy]	
(1)	More Up More Down Remove Select New Layer Layer : Select a Layer	Segment Comments [max 250 characters]	
•	* = Required Fields	Back Save Segment Save Segment As Draft Cancel	
	Back Save Lane As Draft Cancel	Segment Summary	

9 – Data Entry Process

- Select the Layer in the Select a Layer drop-down (
- > 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
 - * <u>Note</u>: "County Code" pit source numbers can be used
 - Click 'Add Aggregate' (4)
 - Repeat until all aggregates have been added

(1)	Select a Layer [Job # - 201403 / PR # - 961905/ MP :4.123 4.465]
(1)	Layer : HMA Base Course ~
	The bottom layer of an asphalt structure (below leveling & top course layers).
	Locate layer attributes using the following cons - For Mix Type, Mix Design No., Asphalt Binder, use JMF (Form 1911), Report of Quality Assura Reports (IDRs) (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 Na (Cose Sensitive)
2	* 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) :
	* Shingles used in the mix? : O Yes O No
(3)	Select New Aggregate Aggregate Summary * Aggregate : Select an Aggregate Aggregate Source
	Source : - Empty - Add Aggregates
	Add Aggregates Edit Aggregate Remove Aggregate
	Back Complete Layer Restore Defaults Cancel
	Save Layer As Draft Add to Layers Library



				5
Layer : H™	1A Base Course 🗸			
The bottom layer of an asphalt	structure (below leveling & top course lay	ers).		
Locate layer attributes using the - For Mix Type, Mix Design No., use JMF (Form 1911), Report of Reports (IDRs) (Form 1122B).	e following construction-related document Asphalt Binder/Supplier, Asphalt%/%Add Quality Assurance Testing (Form 1903B)	ed, Shingles/Warm Mix: , and Inspector's Daily		
 For Application Rate, use As B For Aggregate Class and Source 	ce (pit number), use JMF (Form 1911)	ane Section [Lane # 1.0]	Data Entry	
Pavement Attributes - HMA Base	Course	# Layer Name	Status	
* Mix Type	: Select Mix Type - HMA Base Co	1 HMA Base Course	Complete	
* Mix Design No (Case Sensitive	e) :	Move Up Move D	lown Remove	
* Application Rate	: Select Application Rate 🗸 #/sya		Decult in the Land	
* Asphalt Binder	: Select Asphalt Binder	~	Result in the Lane	•
* Asphalt Binder Cert. Supplier	: Select Asphalt Binder Certified Sup	oplier 🗸	Summary Screen	
* Asphalt % (Total)	:	Numeric Value]		
* Asphalt Binder %Added (Virgi	n) :	Numeric Value]		
* Warm Mix?	: 🔿 Yes 🔿 No			
* Shingles used in the mix?	: 🔾 Yes 💿 yo			
Select New Aggregate	Aggregate Summ	ary		
* Aggregate : Select an Aggreg	ate 🗸 Aggrega	te Lane Secur	Da [Lane # 1.0]	ita En
Source ·		#	Layer Name	Status
Add Aggregate	Empty - Add Ag	gregates 1 HMA Ba	ase Course Dra	aft
(3)	Add Aggregates E	dit Aggregate F Move Up	Move Down	Re
Back Complete Layer ave Layer As Draft Add to Layers Libra	Restore Defaults Cancel	Re	sult in the Lane Summ	nary

- Restore Defaults button: (1)
 - To reset the layer and <u>remove all data</u> <u>entry</u>
- Save Layer As Draft button: (2)
 - Saves layer as **Draft** use to save and <u>add more data later</u>
- Complete Layer button: (3)

move

Screen

- Saves layer as Complete use when <u>all</u> <u>data is added & complete</u>.
- > Add to Layers Library button: (4)
 - To save the layer to the job's list of Layers Library

- > 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 <u>not</u> be deleted

elect a Layer [Job # - JPS_TES	iT1234 / PR # - 3031548/ MP :0.9 1]
Layer : HM	IA Base Course 🗸
Pavement Attributes - HMA Base	: Course
* Application Rate	: 330 V #/syd
* Asphalt Binder	: PG 64-22 💙
* Apphalt Rinder Cast Quarties	: 🛛 Ajax Asphalt Terminal, Detroit, MI 🗸 🗸
Asphalt Binder Cert, Supplier	
Mix Type	: 3E3 💙
Aspnait Binder Cert. Supplier Mix Type Mix Design No (Case Sensitive	: 3E3 ~ ~ ; : [13MD296
Mix Type Mix Design No (Case Sensitive Warm Mix?	: 3E3



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,

Lane Section [Lane # 1.0]

HMA Top Course HMA Level Course

HMA Base Course

Aggregate Base Course

Move Down

Layer Name

Data Entry

Status Complete

Complete

Complete Complete

Complete

Remove

Click 'Remove'

5

2

1 Subbase

Move Up

			Lar	he Section [Lane # 1.0]	
Lane D	tails [Lane #1.0]		#	Layer Name	Data Er Statu
Surfa	e Type : HMA full depth	\sim	4	HMA Top Course	Comple
lt	: 12 🗸 ft		3	HMA Level Course	Comple
ane	Гуре : Mainline 🗸]	2	Aggregate Base Course	Comple
Year	Paved/Placed] : 2016 [yyyy]	-	1	Subbase	Comple
* Partia Paving	Width : Ores No			Move Up Move Down	n
Lane S	ection [Lane # 1.0]				
#	Layer Name	Data Entry Status			
5	HMA Top Course	Complete			
4	HMA Level Course	Complete			
3	Aggregate Base Course	Complete			
2	HMA Base Course	Complete			
1	Subbase	Complete			
	Move	Up Move Down Remove			
Select	ew Layer				
Select Layer	Select a Layer				
Select Layer * = Re	Select a Layer	Add Layer			
Select Layer * = Re	Select a Layer	Add Layer			

EDIT LANE DETAILS: SAVING

- Click 'Save Lane As Draft':
 - Saves <u>current</u> lane as **Draft** use to save and <u>add more</u> data/layers later
- Click 'Save Lane':
 - Saves <u>current</u> lane as data/layers are added

Complete – use when <u>all</u> <u>& complete</u>	Lane T * Year [F * Partial Paving?	ype : <u>Mainline</u> Paved/Placed] : 2016 [yyyy] Width : Ores No		
	Lane Sec	ction [Lane # 1.0]		
	#	Layer Name	Data Entry Status	
ment Lane(s) Overview	5	HMA Top Course	Complete	
ne # Work Done Status	4	HMA Level Course	Complete	
Yes Draft	3	HMA Base Course	Complete	
	2	Aggregate Base Course	Complete	
Lane Details	1	Subbase	Complete	
esult in the Segment Overview Screen	\mathbf{k}	Move	Jp Move Down	Remove
	Select 1	ew Layer		
	Layer :	Select e Layer 🗸 🗸		
Status			Add L	ayer
Complete	* = Req	uired Fields		
	Ba	ck Save Lane Save Lane As Draft	Cancel	
)	Copy Lane	Layers to Shoulder(s)		

Lane Details [Lane #1.0]

Surface Type

Width

: HMA full depth

∨ ft

: 12

 \sim

Result in the Segment Overview Screen

Work Done

Segment Lane(s) Overview

Yes

Lane Details

Lane # 1.0

1.0



EDIT LANE DETAILS: COPY LANE

- (1) Click 'Copy Lane' (After Saving a lane as Complete)
- 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'
 - Else, uncheck a box to not overwrite everything- click 'Copy' (4)



(4)

: Post Construction Data | Lane Summary

= Required Fields

Role[s]:: Data Owner, System Administrato

EDIT LANE DETAILS: COPY TO SHOULDER(S)

: Post Construction Data Lane Sur	mmary	Role[s]:: Data Ov	vner
* = Required Fields	,		
Segment Details [PR # - 961905	5 / MP : 4.465 4.499]	[Show]	
Segment Lanes		Selected Lane	e
Select Lane : Lane #1.0	✓ Work Done	: [•] Yes • No	
Add Left Lane Add Right Lane Copy L	Lane Details Remove Lane		
<u>NOTE</u> : Lanes are always numbe segment: - Lane 1 is the right-most trave - Increasing lane numbers 2, 3, - Decreasing lane numbers 0, -	ered right to left facing toward in I lane of the PR segment. , and greater are lanes left of Lar 1, and less are lanes right of Lan	creasing milepoints of the PR ne 1. ne 1.	
Lane Details [Lane #1.0]			
* Surface Type : HMA fr	ŭ		
• Width : 12	Which Shoulder side	e to copy laver to?	
* Lane Type : Mainlir			
* Vaca [Davied / Diagonal] : 20:	WARNING: Selected	side(s) existing shoulde	r laye
* rear [Paved/Placed] · 20.	will be removed and	replaced with copied is	lyers
Partial Width : Oyes Paving?			
-	Roth Left F	Right Cancel	
Lane Section [Lane # 1.0]		Current	
# Layer Name	e Status		
5 HMA Top Cou	<u>rse</u> Complete	···· (2)	
4 HMA Level Cou	urse Complete		
3 <u>HMA Base Cou</u>	Complete		_ 1
1 Subbase	Complete		_ 1
	Move Up Move Down	Remove	
Select New Laver			
Laver : Select a Laver			
Layer . Select a Layer			
* = Required fields	Add La	yer	
Back Save Lane Sar	ve Lane As Draft Cancel		_
Copy Lane Layers to Shoulder(s)			
	1)		

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

Left Side	Right Side					
Shoulder Deta	ils [Job # - 11074	9 / PR # - 9619	05/ MP :4.46	5 4.499]	Left S	ide
* Work Done		: 🖲 Yes	O No			
* Has Corruga	ations(Rumble Str	ip): 🔿 Yes	No			
* Is Parking L	ane	: 🔿 Yes	No			
* Partial Widtl	n Paving?	: O Yes	No			
Payed Width	1	: 8		✓ Feet		
* Total Widd		: 8		✓ Feet		
* Shoulder Su	rface Type	: HMA ov	ver exist Join	ited Conc	~	
(pavement cro	ss-section)					
Select New La	yer		Shoulder	Sections		
Laver : Selec	t a Layer	~	#	Layer Name	Data Entry Status	
				Top Course	Draft	
		Add Layer				
		Add Layer	4 <u>HMA</u>	Level Course	Draft	

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

Post Construction Data Shoulder,	Curb & Gutter I	Details	Role[s] :: Data Owner ,	System Administrator
* = Required Fields				
Left Side Right Side				
Shoulder Details [Job # - 110749	/ PR # - 96190	05/ MP :4.46	5 4.499]	Left Side
* Work Done	: 🖲 Yes	O No		
* Has Corrugations(Rumble Strip): O Yes	O No		
* Is Parking Lane	: 🔿 Yes	O No		
* Partial Width Paving?	: 🔿 Yes	O No		
* Paved Width	: 8		✓ Feet	
* Total Width	: 8		✓ Feet	
* Shoulder Surface Type (pavement cross-section)	: HMA ov	er exist Join	ted Conc 🗸	
Select New Layer		Shoulder	Sections	
Layer : Select a Layer	~	#	Layer Name	Data Entry Status
	Add Layer	Move Up	Move Down	Remove
Curb & Gutter Details [Job # - 110	749 / PR # - 9	61905/ MP :	4.465 4.499]	Left Side
* Work Done : 〇 Yes ⑧ No				
* Work Done : O Yes O No	der, Curb & Gutte	r] [Cancel	
* Work Done : O Yes No Back Save Shoulder and/or Curb & Gut	der, Curb & Gutte	r	Cancel	

i Seament Shoulder	Overview		Seamen	t Lane(s) Overview	
	Left	Right	Lane #	Work Done	Status
Work Done	Yes	Yes	3.0	Yes	Complete
Status	Draft	Draft	2.0	Yes	Complete
Seament Curb & G	utter Overview		1.0	res	Complete
	l eft	Right	Lane	2 Details	
Work Done	No	No			
Status					
Shoulder, Curb &	Gutter Details]			
Median Overview	N				
* Median Type :	Undivided	~	1		
incolum type t					
Segment Comme	nts rs]				

- > 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 <u>selected side</u> 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

* Work Done	2): <u>ves</u> No	Left 3
Has Corrugations(Rumble Str	ip) : 🔿 Yes 🔿 No	
* Is Parking Lane	: 🔾 Yes 🔿 No	
* Partial Width Paving?	: 🔾 Yes 🔿 No	(3)
* Paved Width	: 8 v Feet	
* Total Width	: 8 V Feet	
* Shoulder Surface Type (pavement cross-section)	: HMA over exist Jointed Conc	∽
Select New Layer	Shoulder Sections	
Layer : Select a Layer	V # Layer Name	Data Entry Status
	Add Layer Move Up Move Dov	wn R
Curb & Gutter Details [Job # - 1	10749 / PR # - 961905/ MP :4.465 4.499]	Left S



□ 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



Shoulder Details [Job # - 2011	195 / PR	# - 15624	406/ MP :0	0.059]	Left Side
* Work Done	:	Yes	О _{No}		
* Has Corrugations(Rumble S	trip) :	O Yes	🔘 No		
* Is Parking Lane	:	○ Yes	No		
* Partial Width Paving?	:	🔘 Yes	0 No		
* Partial Paving Width	:	3		✓ Feet	
* Paved Width		8		✓ Feet	
* Total Width	 :	8		✓ Feet	
* Shoulder Surface Type (pavement cross-section)	:	HMA ful	l depth	~	
Select New Layer			Shoulder	Sections	
Select New Layer		×	Shoulder : #	Sections Layer Name	Data Entry Status
Select New Layer	Add	✓ Layer	Shoulder : # Move Up	Sections Layer Name Move Down	Data Entry Status Remo
Select New Layer Layer : Select a Layer	Add 201195 /	✓ Layer / PR # - 1	Shoulder # Move Up 562406/ MP	Sections Layer Name Move Down :0 0.059]	Data Entry Status Remo Left Side
Select New Layer Layer : Select a Layer	Add 201195 /	✓ Layer / PR # - 1	Shoulder 3 # Move Up 562406/ MP	Sections Layer Name Move Down :0 0.059]	Data Entry Status Remo Left Side
Select New Layer Layer : Select a Layer Curb & Gutter Det ils [Job # - Work Done : Yes O Curb Type : Select Curb	Аdd 201195 / No Туре	✓ Layer / PR # - 1	Shoulder 3 # Move Up 562406/ MP	Sections Layer Name Move Down :0 0.059]	Data Entry Status Remo Left Side



SHOULDER, CURB & GUTTER: SIMPLIFIED CPM



Save Shoulder As Draft:

Left

Yes

Draft

Left

- Saves <u>current side</u> as **Draft** more data/layers later
- Save Shoulder, Curb & Gutter:

Right

No

Right

No

Saves <u>current side</u> as **Comple** data/layers are added & comple

Segme

Status

Segmer

Status

Left Side Right Side Shoulder Details [Job # - 110749 / PR # - 961905/ MP :4.465 4.499] * Work Done : • Yes • No * Has Corrugations(Rumble Strip) : • Yes • No * Is Parking Lane : • Yes • No	Left Side
Partial Width Paving? : ○ Yes ● No Paved Width : ⑧	
* Total Width : 8	
Selec New Layer Shoulder Sections	ata Entre
Layer : Select a Layer # Layer Name Add Layer 2 HMA Top Course Dr 1 Cold Milling Dr	Status
Move Up Move Down Curb & Gutter Details Nob # - 110749 / PR # - 961905/ MP :4.465 4.499]	Remove Right Side
Work Done : Yes No Curb Type Concrete Cult & Gutter Back Save Shoulder, Curb & Gutter Cancel Curb Rendered to Curb & Gutter Cancel	
	Shoulder Details [Job # - 110749 / PR # - 961905/ MP :4.465 4.499] * 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 (havement cross-section) : HMA over exist Jointed Conc • Selet: New Layer Shoulder Sections Layer : Select a Layer # Layer Name Dr. 1 Cold Milling Dr. Move Up Move Down Move Up Move Down Curb & Gutter Details Vob # - 110749 / PR # - 961905/ MP :4.465 4.499] * Curb Xuets Done : • Yes No * Curb Xuets Done : • Yes No * Curb Type Concrete Curb & Gutter Cancel Cancel Back Save Shoulder, Curb & Gutter Cancel Cancel



Segment Curb & Gutter Overview

Result in the Segment

Segment Shoulder Overview

Overview Screen

Work Done

Status

9 – Data Entry Process

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)

	Solution Construction Data Copy Shoulder and/or Curb & Gutter Role[5]:: Data Owner, System Administrator		Layer
	Instructions - Shoulder Details Copy [Hide] 🔻		
	Select the copy option.	7	
	(1) All the existing shoulder information will be lost.		Curb
(3)	Copy Options Select Option Shoulder Details Shoulder Layers Curb & Gutter Details		* Cur
	Back Copy to Right Shoulder	-	

: Post Construction Data Shoulder	, Curb & Gutter D	etails	Role[s] :: Data Owner ,	System Administ	rator
* = Required Fields					
Left Side Right Side					_
Shoulder Details [Job # - 110749	9 / PR # - 96190	5/ MP :4.46	5 4.499]	Left Sic	le
* Work Done	: 🖲 Yes	O No			
* Has Corrugations(Rumble Stri	p): 🔿 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 ove	r exist Joir	ted Conc 🗸		
Select New Layer		Shoulder	Sections		
Select New Layer Layer : Select a Layer	~	Shoulder #	Sections Layer Name	Data Entry Status	
Select New Layer Layer : Select a Layer	► ✓	Shoulder # 1 <u>HMA</u>	Sections Layer Name Top Course	Data Entry Status Complete	
Select New Layer Layer : Select a Layer	Add Layer	Shoulder # 1 HMA Move Up	Sections Layer Name Top Course Move Down	Data Entry Status Complete Rem	ove
Select New Layer Layer : Select a Layer	✓ Add Layer 0749 / PR # - 96	Shoulder # 1 HMA Move Up	Sections Layer Name Top Course Move Down 4.465 4.499]	Data Entry Status Complete Rem Left Sid	ove le
Select New Layer Layer : Select a Layer Curb & Gutter Details [Job # - 11 * Work Done : • Yes O No	Add Layer	Shoulder # 1 HMA Move Up 61905/ MP	Sections Layer Name Top Course Move Down 4.465 4.499]	Data Entry Status Complete Rem Left Sid	■ ove
Select New Layer Layer : Select a Layer Curb & Gutter Details [Job # - 11 * Work Done : Yes O No * Curb Type : Concrete Curb	Add Layer Add Layer 0749 / PR # - 96 Add Layer Comparison	Shoulder # 1 HMA Move Up 51905/ MP	Sections Layer Name Top Course Move Down 4.465 4.499]	Data Entry Status Complete Rem Left Sid	ove de
Select New Layer Layer : Select a Layer Curb & Gutter Details [Job # - 11 * Work Done : Yes O No * Curb Type : Concrete Curb	Add Layer Add Layer 0749 / PR # - 96 % Gutter	Shoulder # 1 HMA Move Up S1905/ MP	Sections Layer Name Top Course Move Down 4.465 4.499]	Data Entry Status Complete Rem Left Sid	ove de
Select New Layer Layer : Select a Layer Curb & Gutter Details [Job # - 11 * Work Done : Yes No * Curb Type : Concrete Curb Back Save Shor	Add Layer 0749 / PR # - 96 & Gutter alder, Curb & Gutter	Shoulder # 1 HMA Move Up 51905/ MP	Sections Layer Name Top Course Move Down 4.465 4.499]	Data Entry Status Complete Rem Left Sid	ove de
Select New Layer Layer : Select a Layer Curb & Gutter Details [Job # - 11 * Work Done : Yes O No * Curb Type : Concrete Curb Back Save Show Copy Shoulder and/or Curb & Gu	Add Layer Add Layer 0749 / PR # - 96 & Gutter alder, Curb & Gutter tter	Shoulder # 1 HMA Move Up 1905/ MP • • • • • • • • • • • • •	Sections Layer Name Top Course Move Down 4.465 4.499] Cancel	Data Entry Status Complete Rem Left Sid	ove ie
Select New Layer Layer : Select a Layer Curb & Gutter Details [Job # - 11 * Work Done : Yes O No * Curb Type : Concrete Curb Back Save Show Copy Shoulder and/or Curb & Gu	Add Layer Add Layer 0749 / PR # - 96 & Gutter alder, Curb & Gutter tter	Shoulder # 1 HMA Move Up 1905/ MP Standard Associations e Shoulder Associations	Sections Layer Name Top Course Move Down 4.465 4.499] Cancel Draft	Data Entry Status Complete Rem Left Sid	love



EDIT SEGMENT DETAILS: SAVING

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



: Post Construction Data | Segment Overview

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

Role[s] :: Data Owner

[Show]

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 <u>same</u> for Simplified CPM (adds layers to segments, not lanes)

Click Layers Library Overview

The Layers Library Overview screen will appear

	Layer	S LISI	lleer	
Layer : Select a Layer Jser Specified :	* #	Layer Name	Specified Name	Data Entry Status
Name				Rom
Add Laye	r			Kenn





Save

LAYERS LIBRARY OVERVIEW: CREATE/MODIFY



Create/Modify Layer(s) Add Layer(s) Layers List Select New Layer User : Select a Layer ~ Laver Data Entry Layer Name Specified Status User Name Specified : HMA Top Course Top_201403 Draft Name Add Remove Pavement Attributes HMA Top Course User Specifica Name : Top_201403 [Numeric Value] AWI (Actual) : Select Application Rate 🗸 #/syd Application Rate : Select Asphalt Binder Asphalt Binder ~ Select Asphalt Binder Certified Supplier ~ Asphalt Binder Cert, Supplier Mix Design No (Case Sensitive) : Select Mix Type - HMA Top Course ~ Mix Type Shingles used in the mix? : 🔿 Yes 🔘 No : O Yes O No Warm Mix? Select New Aggregate Aggregate Summary Source Aggregate Aggregate : Select an Aggregate ~ Source Empty - Add Aggregates Add Aggregate Remove Aggregate Save Layer Restore Defaults

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

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

Create/Modify Layer(s)

Specified : Top_201403

HMA Top Course

Select New Laver

Laver

Edit/complete the layer & aggregate details (4)

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

Lavers List

Layer Nam

User

Specified

Status

Remove

Add Laver(s)



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.

Layer : Select a Layer	~	Layer	Name	User Specified Name	Data Entry Status
Name	1	HMA Top	Course	Top_201403	Draft
Ad	d Layer			•	
Pavement Attributes - HMA To	op Course				
User Specified Name : Top	_201403				
* AWI (Actual)	:			263 [Numeric	Value]
* Application Rate	: 165		~	#/syd	
* Asphalt Binder	: PG 64	-28			
* Asphalt Binder Cert, Suppli	er : Flint H	lills Resourc	es, LP, Gr	een Bay, WI	
* Mix Design No (Case Sensit	tive) :				
* Mix Type	: Select	Mix Type - H	HMA Top	Course	
* Shingles used in the mix?	: О үе	s 🔍 No		Mi	ssina
* Warm Mix?	: О үе	s 🔍 No			Joing
Select New Aggregate			Aggregat	e Summary	Source
* Aggregate : Select an Aggr	regate	~	,	Ayyreyate	Source
Source : -]		Empty -	Add Aggregat	es
Add Aggregate					
					Remove Ag
Save Layer Restore Defaults				N	lissino

Create/Modify Layer(s) Add Layer	(5)				
Select New Layer	Layers List				
Layer : Select a Layer User Specified :	# Lay	er Name	User Specified Name	Data Entry Status	
Name	1 HMA To	p Course	Top_201403	Complete	
Add Layer			1	Ren	nove
Pavement Attributes - HMA Top Course					
User Specified Name : Top_201403					
* AWI (Actual) :		/	263 [Numeric	Value]	
* Application Rate : 10	55	~	#/syd		
* Asphalt Binder : PC	G 64-28			``	~
* Asphalt Binder Cert. Supplier : Fl	int Hills Reyou	rces, LP, Gre	en Bay, WI	`	~
* Mix Design No (Case Sensitive) : 13	SMOD72				
* Mix Type : 50	EV af			`	~
* Shingles used in the mix? C	Yes 💿 No				
* Warm Mix? : C) Yes 💿 No				
Select New Aggregate		Aggregate	e Summary		
* Aggregate : Selat an Aggregate	~	A	ggregate	Source	
		Sand		02-004	
Source		3/8		04-012	
Add Aggreette				Remove Aggreg	gate
Save Layer Restore Defaults					
Back Save					_



Complete

9 – Data Entry Process

LAYERS LIBRARY OVERVIEW: CREATE/MODIFY

- > To <u>change</u> the active 'Layer', click the layer name in the Layers List pane
- > To <u>remove</u> 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

Create/Modify Layer(s)	Add Lay	yer(s)								
Select New Layer		Laye	Layers List							
Layer : Select a Layer User	`	• #	Layer Name	User Specified Name	Data Entry Status					
Name		2	<u>HMA Level Course</u>	Level_54875	Draft					
	Add Layer	1	<u>HMA Top Course</u>	Top_201403	Complete					
					R	emove				
NOTE: HMA Level Course										
Pavement Attributes - HMA	Level Cou	irse								
User Specified Name : L	evel_54875	5								
* Application Rate * Asphalt Binder	:	Select A Select A	pplication Rate 🗸 #, sphalt Binder	/syd		~				
* Asphalt Binder Cert. Sup	plier :	Select A	sphalt Binder Certifie	d Supplier		~				
* Mix Design No (Case Ser	nsitive) :									
* Mix Type	:	Select M	lix Type - HMA Level (Course		~				
* Shingles used in the mix	? :	O Yes	No							
* Warm Mix?	:	O Yes	O No							
Select New Aggregate			Aggregate	Summary						
* Aggregate : Select an Ag	ggregate		× A	ggregate	Source					
Source :			Empty - A	Add Aggregate	25					
Aud Aggregate										
					Remove Aggi	regate				
Save Layer Restore Defaults										
Back Save										



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)

micamdevw.michigan.gov says			-				_				
Any unsaved data in this project will be lost - proceed?		PR S	egme	ent List							Hide]
OK Cancel	move		#	PR Number	PR(v)	BMP	EMP	Route	Direction	Framework Status	Data Statu
		0	1	526107	23	0.092	0.285	M-66	2 Way	Active	Draft
vement Attributes - HMA Level Course		0	2	526107	23	1.067	1.521	M-66	2 Way	Active	Draft
er Specified Name : Level_54875		0	3	240805	23	1.737	1.926	S West County Line Rd		Active	Draft
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	~				Add	Library La	iyer ^				
••											
Shingles used in the mix? : O Yes O No											
Shingles used in the mix? : O Yes O No		Laye	rs Li	St							
Shingles used in the mix? : O Yes O No Warm Mix? : O Yes No Hect New Aggregate Aggregate Aggregate Source		Laye	ers Li #	st Lay	er Nam	e U	lser Specif Name	ied Data Entr Status	Ŋ		
Shingles used in the mix? : Ores ONO Warm Mix? : Ores No ect New Aggregate ggregate : Select an Aggregate Source		Laye	ers Li # 1	ST Lay	er Nam Course	e U	ser Specifi Name p_201403	ied Data Entr Status Complete	ry		
Shingles used in the mix? : O Yes O No Warm Mix? : O Yes No ect New Aggregate ggregate : Select an Aggregate ource : O - O - O - O - O - O - O - O - O - O		Laye	ers Li # 1	E Lay	er Nam Course	e U	ser Specifi Name p_201403	ied Data Entr Status Complete	ry		
Shingles used in the mix? : O Yes O No Warm Mix? : O Yes No No No No No No No No No No		Laye	ers Li # 1	st Lay HMA Top	er Nam Course	e U	ser Specif Name p_201403	ied Data Entr Status Complete	ny 🛛		

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





Back

LAYERS LIBRARY OVERVIEW: ADD LAYERS

- \Box 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

Create/Modify Layer(s) Add Layer(s)									
2 5	Segm	ent List						[]	Hide] 🔻
	#	PR Number	PR(v)	BMP	EMP	Route	Direction	Framework Status	Data Status
	1	526107	23	0.092	0.285	M-66	2 Way	Active	Draft
)	2	526107	23	1.067	1.521	M-66	2 Way	Active	Draft
С	3	240805	23	1.737	1.926	S West County Line Rd		Active	Draft
ane	es an	d Shoulders							
		#			Lane/	Shoulder			
		2.0	2		L	ane			
		1.0	<u>)</u>		L	ane			
		Lef	t		Sho	oulder			
		Righ	<u>nt</u>		Sho	oulder			



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)
- \succ Enter the name in the pop-up window (2)
- Click 'Ok' (3)

	l .						
Select a Layer [Job # - 211048 / PR # - 526107/ MP :0.092 0.285]		Create/Modify Layer(s)	Add Layer	(5)			
Layer : Cold Milling V		Select New Layer		Layers List			
Development Attribute a Calid Milling		Layer : Select a Layer User	~	# Layer Name	User Specified Name	Data Entry Status	
Pavement Attributes - Cold Milling		Specified : Name		3 <u>Cold Milling</u>	1.5 CM	Draft	
* Cold Milling Depth : 1.5 ✓ in			AddLayer	2 <u>HMA Level Course</u> 1 <u>HMA Top Course</u>	Level_54875 Top_201403	Draft Complete	
Cold Milling Texture : Standard	l	([Remove
Cold Milling Type		/		F	Result in	the Lay	ers/
Back Complete Layer Restore Defaults Cancel User specified I Save Layer As Draft Add to Layers Library (1) (1) (1)	Name for Layer : 1.5 CM			Librar	y Overv	iew Scr	een
(3) Ok Cance	(2)						



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

guiler / w							Number	(v)	
,	:: Post Construction Data Copy Segme	nt Details	Role	s] :: Data Owner		01	962706	16 10.505	1
	Instructions - Segment Details Copy	y		[Hide] 🔻		0 2	962706	16 10.789	1
	 Select a Segment from the " Select the Segments from th segment details are to be co 	Completed Segments [(e "Incomplete Segments pied.	Copy From]" list. ; [Copy To]" list to which t	he completed		 3 4 5 	962706 961905	16 11.123 16 4.465 16 4.499	4
_	(1) All the existing segme	ent information will be			Segment Quick Layer O	Details verview	Copy Segme	ent De	
Conv From	Completed Segments [Copy From	1				Change PF	Segment M	ile Points	
Complete Compared	# PR PR BMP	EMP Route	e Direction Framewo	ork Data 2		# PR Nur	nber BMP	E	ИP
Complete Segment	④ 4 961905 16 4.465	4.499 M-19	N/S Active	Complete	'	4 961905	;	4.465	
1	Incomplete Segments [Copy To]					Apply Milepoin	t Changes		
Сору То	# PR PR BMP	EMP Rout	e Direction Framewo	ork Data Status					
Draft Segments	✓ 1 962706 16 10.505 ✓ 2 962706 16 10.789	10.789 I-69 11.123 I-69	E Active	Draft 3		Project Co	mments		
Brun ocymenia	3 962706 16 11.123	11.554 I-69	E Active	Draft			liaracters		
L L	5 961905 16 4.499	4.719 M-19	N/S Active	Draft		Back	Finali	ize Job Save	Job a
.	Back Copy Details	4)							
WDO			9 -	- Data Entry Proce	255				



: Post Construction Data | Road Segment List

Role[s] :: Data Owne

COPYING EXAMPLE (1)

Using Copy Lane or Copy Segment Details can reduce data entry time and errors
 For Example:

- Segment I 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 I 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

:: Pos	st Con	struction Data	a Ro	ad Segment	t List			Role[s]:	: Data Owner
Job	Detai	ls [80912 / 1	63 - C	Concrete R	leconstruc	tion]			[Show] 🔺
	Edit la	h Dataile							
	Cuit Ju								
PR S	Segm	ent List							[Hide]▼
	#	PR Number	PR (V)	BMP	EMP	Route	Direction	Framework Status	Data Status
0	1	962706	16	10.505	10.789	I-69	E	Active	Complete
$^{\circ}$	2	962706	16	10.789	11.123	I-69	E	Active	Complete
0	3	962706	16	11.123	11.554	I-69	E	Active	Draft
۲	4	961905	16	4.465	4.499	M-19	N/S	Active	Complete
0	5	961905	16	4.499	4.719	M-19	N/S	Active	Draft
S	egmen	nt Details	C	opy Segment	Details	Create Segment	Delete Segme	nt View Map	
Quick	Layer	Overview							
Char	nge P	R Segment	Mile P	oints		Create PR S	ub Segmen	ts	
# F	PR Nu	Imber BMP		EMF	כ	No. of Sub	Segments	: [At	least 2]
4 9	6190)5	4	465	4.499	Create Sub Seor	nents	•	
Apply	Milepo	int Changes		DD				nto	
				<u> </u>	OJE		ime	nts	
Proj [ma>	ect C c 250	Comments characters]							
	Bad	k Fin	alize Jo	b Save Job	o as Draft	Cancel			
					Proj	ect Summary			

oeginent beta	lls [PR # - 9619	05 / MP : 4.465	4.499]		[Show] 🛦			
Segment Should	er Overview		Segmen	Segment Lane(s) Overview				
	Left	Right	Lane #	Work Done	status			
Work Done	Yes	Yes	3.0	Yes	Complete			
Status	Complete	Complete	2.0	Yes	Complete			
Segment Curb &	Gutter Overview		Lane	Details	complete			
	Left	Right	Lan	- oculo				
Work Done	Yes	Yes						
Status	Complete	Complete						
Shoulder Curb	& Gutter Details							
Chouse, our		l						
Median Overview	r .							
* Median Type :	Undivided	~	1					
fieldan type -			SEG	MENT Co	omment			
Seament Comm	ents							
Segment Comm [max 250 charac	ters]							
Segment Comm [max 250 charact	ters]							

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 character:	This j s]	ob was constructed	concurre	ently (with job 11	10441.	1	$\langle \rangle$		
Back	Finalize Job S	Save Job as Draft	Cancel Summary							
			P	roject	Summary					
	Job Summary Job Number	Work Type		Fix Life (Yrs)	Cost ^[1] / Lane Mile (\$)	Date	Lanes	Special Proj	ect Type	Pavement Study Number
	80912 163	- Concrete Reconstruction		26		09/20/2016 ^[a]	0	N/A		N/A
	^[1] - Constructio Segment Detail	n Cost or A Phase CTD from s	MPINS / [8]	- Open t	to Traffic Date /	^[b] - Let Date / ^{[c}	^{:]} - A Ph	ase start date / ^{[d}	^{]]} - Sufficiency	y Year_Imp
	Region	TSC	Co	ounty		Route		PR Number	PR BMP	PR EMP
	Bay	Huron	St. Clair		I-69			962706	10.	505 10.789
	Median Type: U Lane [1.0], Lan	'ndivided / Median Width: 0 f e Type [Mainline], Sectional	ft Details [Sur	face Typ	e:HMA full dej	pth / Width: 12.0	0 ft / Pai	tial Width Pavir	ıg: No / Pavin	g Width: N/A]
	Year Constructed	Pavement		Attrib	ute	Val	ue	I	Aggregate	Pit / Source
			AWI (Ac	tual)		283		2NS		72-006
			Applicati	on Rate		165 Pounds Per S	Square 3	ard 21A		13-078
			Asphalt E	Binder		PG 70-28P				

Segment Comm [max 250 charac	ters]	
Back	Save Segment	Save Segment As Draft Cancel

		Segment Summar	v			
		Segurent Summin	·			
Job Summary	Ŧ					
Job Number	Work Type	Fix Cost ⁽¹⁾ /Lan Life Mile (\$)	se Date Lanes	Special Project Ty	rpe Pave	ement Study Number
		(YIB)				
80912 163	- Concrete Reconstruction	n 26	09/20/2016 ^[A] 0	N/A		N/A
^{1]} - Constructio Segment Detai	on Cost or A Phase CTD fr ils	rom MPINS / [*] - Open to Traffic Da	te / [16] - Let Date / [6] - A Phase	start date / [d] - Suf	fficiency Year	r_Imp
Region	TSC	County	Route	PR. Number P	REMP	PR. EMP
Bay	Huron	St. Clair M-19	96	1905	4.465	4.49
ane [1.0], Lar Year	ne Type [Mainline], Sectio Pavement	mal Details [Surface Type:HMA full Attribute	depth / Width: 12.00 ft / Partia Value	l Width Paving: No	/ Paving Wid	ith: N/A] Pit / Source
Lane [1.0], Lai Year Constructed	ne Type [Mainline], Sectio Pavement	mal Details [Surface Type:HMA full Attribute	depth / Width: 12.00 ft / Partia Value	l Width Paving: No Agg	/ Paving Wid gregate	ith: N/A] Pit / Source
Lane [1.0], Lan Year Constructed	ne Type [Mainline], Sectio Pavement	nal Details [Surface Type:HMA full Attribute AWI (Actual)	depth / Width: 12.00 ft / Partia Value 283	l Width Paving: No Agg 2NS) / Paving Wid gregate	ith: N/A] Pit / Source 72-006
Lane [1.0], Lan Year Constructed	ne Type [Mainline], Sectio Pavement	anal Details [Surface Type:HMA full Attribute Attribute AWI (Actual) Application Rate	depth / Width: 12.00 ft / Partia Value 283 165 Pounds Per Square Yar	l Width Paving: No Agg 2NS d 21A) / Paving Wid gregate	ith: N/A] Pit / Source 72-006 13-078
Lane [1.0], Lan Year Constructed	ne Type [Mainline], Sectio Pavement	anal Details [Surface Type:HMA full Attribute Attribute AWI (Actual) Application Rate Asphalt Binder	depth / Width: 12.00 ft / Partial Value 283 165 Pounds Per Square Yan PG 70-28P	I Width Paving: No Agg 2NS 1 21A) / Paving Wid gregate	ith: N/A] Pit / Sourc 72-006 13-078
Lane [1.0], Lan Year Constructed	ne Type [Mainline], Sectio Pavement	nal Details [Surface Type:HMA full Attribute AWI (Actual) Application Rate Asphalt Binder Asphalt Binder Certified Suppler	depth / Width: 12.00 ft / Partial Value 283 165 Pounds Per Square Yan PG 70-28P Ajax Asphalt Terminal, Det MI	I Width Paving: No Agg 2NS d 21A) / Paving Wid gregate	ith: N/A] Pit / Sourc 72-006 13-078
Lane [1.0], Lan Year Constructed	ne Type [Mzinline], Sectio Pavement HMA Top Course	aal Details [Surface Type:HMA full Attribute AWI (Actual) Application Rate Asphalt Binder Asphalt Binder Mit Design No. (Case Sensitive)	depth / Width: 12.00 ft / Partial Value 283 165 Pounds Per Square Yan PG 70-28P Ajax Asphalt Terminal, Det MI 13MD299	I Width Paving: No Agg 2NS d 21A) / Paving Wid gregate	ith: N/A] Pit / Sourc 72-006 13-078
Lane [1.0], Lan Year Constructed	ne Type [Mainline], Sectio Pavement HMA Top Course	nal Details [Surface Type:HMA full Attribute AWI (Actual) Application Rate Asphalt Binder Asphalt Binder Mix Design No. (Case Sensitive) Mix Type - HMA Top Course	depth / Width: 12.00 ft / Partial Value 283 165 Pounds Per Square Yan PG 70-28P Ajax Asphalt Terminal, Det Mf 13MD299 5E3	I Width Paving: No Agg 2NS d 21A) / Paving Wid gregate	ith: N/A] Pit / Sourc 72-006 13-078
Lane [1.0], Lan Year Constructed	ne Type [Mainline], Sectio Pavement HMA Top Course	nal Details [Surface Type:HMA full Attribute AWI (Actual) Application Rate Asphalt Binder Asphalt Binder Asphalt Binder Mix Design No. (Case Sensitive) Mix Type -HMA Top Course Shingles Used	depth / Width: 12.00 ft / Partia Value 283 165 Pounds Per Square Yan PG 70-28P Ajag Asphalt Terminal, Det MI 13MD299 5E3 N	Width Paving: No Agg 2NS 21A roit,) / Paving Wid gregate	ith: N/A] Pit / Sourc 72-006 13-078
Lane [1.0], Lar Year Constructed	ne Type [Mainline], Sectio Pavement HMA Top Course	nal Details [Surface Type:HMA full Attribute AWT (Actual) Application Rate Asphalt Binder Asphalt Binder Asphalt Binder Mitt Design No. (Case Sensitive) Mitt Type - HMA Top Course Shingles Used Warm Mitt	depth / Width: 12.00 ft / Partial Value 283 165 Pounds Per Square Yan PG 70-28P Ajax Asphalt Terminal, Det Mf 13MD299 5E3 N N	Width Paving: No Agg 2NS 2NS 21A 7001,) / Paving Wid gregate	ith: N/A] Pit / Sourc 72-006 13-078
ane [1.0], Lau Year Constructed	ne Type [Mainline], Sectio Pavement HMA Top Course	aal Details [Surface Type:HMA full Attribute AWT (Actual) Application Rate Asphalt Binder Asphalt Binder Asphalt Binder Certified Supplier Mity Design No. (Case Sensitive) Mity Type - HMA Top Course Shingles Used Warm Mity Application Rate	depth / Width: 12.00 ft / Partial Value 283 165 Pounds Per Square Yan PG 70-28P Ajax Asphalt Terminal, Det MI 13MD299 5E3 N N 220 Pounds Per Square Yan	Width Paving: No Agg 2NS d 21A root, d 22A	> / Paving Wid gregate	ith: N/A] Pit / Sourc 72-006 13-078 13-078 13-003
Lane [1.0], Lan Year Constructed	ne Type [Mainline], Sectio Pavement HMA Top Course	nal Details [Surface Type:HMA full Attribute AWT (Actual) Application Rate Asphalt Binder Asphalt Binder Certified Supplier Mix Design No. (Case Sensitive) Mix Type - HMA Top Course Shingles Used Warm Mix Application Rate Asphalt Binder	depth / Width: 12.00 ft / Partial Value 283 165 Pounds Per Square Yan PG 70-28P Ajax Asphalt Terminal, Det MI 13MD299 5E3 N N 220 Pounds Per Square Yan PG 70-28P	Width Paving: No Agg 2NS d 21A roit, d 22A 2NS	Paving Wid gregate	ith: N/A] Pit / Sourc 72-006 13-078 13-078 13-003 72-006
Lane [1.0], Lar Year Constructed	ne Type [Mainline], Sectio Pavement HMA Top Course	aal Details [Surface Type:HMA full Attribute AWT (Actual) Application Rate Asphalt Binder Asphalt Binder Asphalt Binder Certified Supplier Mitr Design No. (Case Sensitive) Mitr Type - HMA Top Course Shingles Used Warm Mitr Application Rate Asphalt Binder Certified Supplier	depth / Width: 12.00 ft / Partial Value 283 165 Pounds Per Square Yan PG 70-28P Ajax Asphalt Terminal, Det MI 13MD299 5E3 N N N 220 Pounds Per Square Yan PG 70-28P Ajax Asphalt Terminal, Det MI	Width Paving: No Agg 2NS d 21A root, d 22A 22X zNS root, d 22A	/ Paving Wid	kth: N/A] Pit / Sourc 72-006 13-078 13-003 72-006
Lane [1.0], Lar Year Constructed	ne Type [Mainline], Sectio Pavement HMA Top Course	aal Details [Surface Type:HMA full Attribute AWT (Actual) Application Rate Asphalt Binder Asphalt Binder Certified Supplier Mitz Design No. (Case Sensitive) Mitz Type - HMA Top Course Shingles Used Warm Mitz Application Rate Asphalt Binder Asphalt Binder Asphalt Binder Asphalt Binder Asphalt Binder Asphalt Binder	depth / Width: 12.00 ft / Partial Value 283 165 Pounds Per Square Yan PG 70-28P Ajax Asphalt Terminal, Det MI 13MD299 5E3 N 200 Pounds Per Square Yan PG 70-28P Ajax Asphalt Terminal, Det MI 13MD297	Width Paving: No Agg 2NS d 21A root, 4 22A 2NS root, 2NS 2NS 2NS	/ Paving Wid	kth: N/A] Pit / Sourc 72-006 13-078 13-003 72-006 13-003



SAVE JOB AS DRAFT OR FINALIZE JOB

□ Save Job as Draft:

Role[s]:: Data Owner , System Administrator

Work Type

 I

 1
 2
 3
 4
 5
 >

310-New Routes

169-Cncr Pv Rubb & Bit Resurt

163—Concrete Reconstruction

163-Concrete Reconstruction

170—Major Rehabilitation

[Show1]

- 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:

Post Construction Data | Modify List

MAP Job ID 🔺 Non MAP Job ID

Job [80912] has been saved as a Draft

Search Filter

45824

80912

84072

Page: 1 of 7

- 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

PR	Edit Jo Seam	ob Details							[Hide]▼
	#	PR Number	PR(v)	ВМР	ЕМР	Route	Direction	Framework Status	Data Status
۲	1	962706	16	10.505	10.789	I-69	E	Active	Complete
0	2	962706	16	10.789	11.123	I-69	E	Active	Complete
\bigcirc	3	962706	16	11.123	11.554	I-69	E	Active	Complete
0	4	961905	16	4.465	4.499	M-19	N/S	Active	Complete
\odot	5	961905	16	4.499	4.719	M-19	N/S	Active	Complete
Segment Details Copy Quick Layer Overview Change PR Segment Mile Poin # PR Number BMP 1 962706 10.50 Indy Milepoint Changes Indepoint Changes				milo Do ya c 🗌 P	ginworke ou want to revent this	erqa.michigar Save this job as page from creat	n.gov say: a Draft? ing additior	5: nal dialogs.	Cancel
Proj Con [ma char	ject nmen × 250 racter	ts s]							1.

