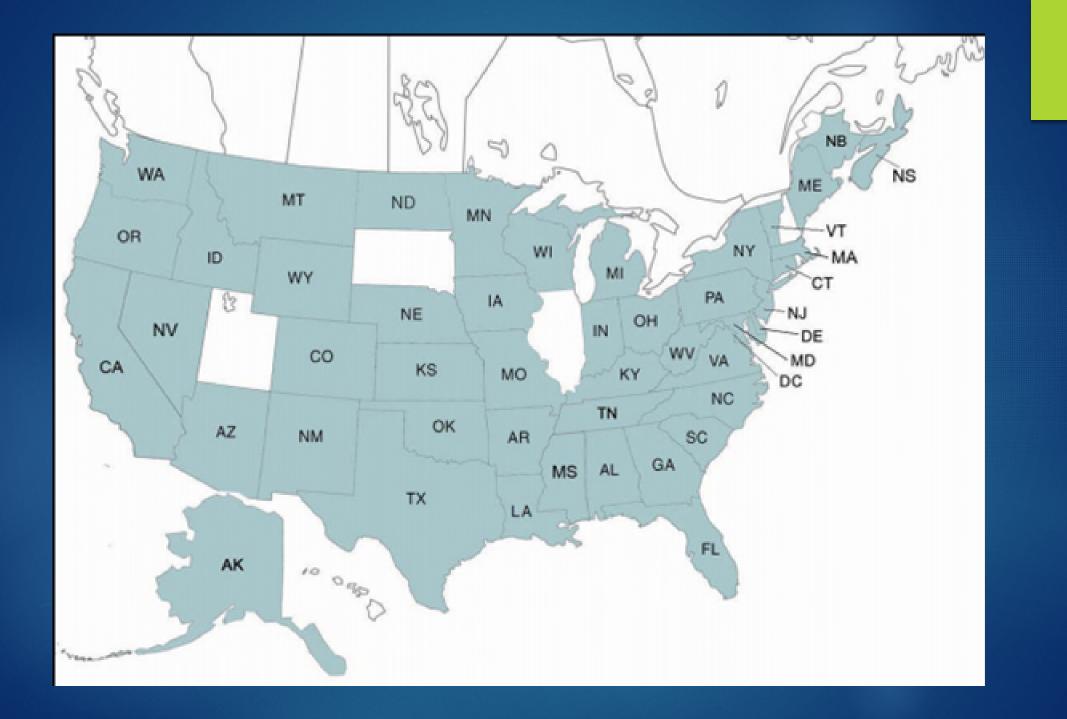


What is AASHTOWare Project?

- Powerful enterprise-wide software suite
- Manages entire contract and construction lifecycle
- Designed by transportation professionals for transportation professionals
- Web-based software with external access options
- Mobile Apps
- ▶ 30+ years in production





AASHTOWare Project Data Analytics™ Info Tech® Mobile Inspector® **AASHTOWare Project** Estimation™ **AASHTOWare Project UNIFIED Construction &** Materials™ **DATABASE** M22 bill 35 3 bill 3 sell 3 se **AASHTOWare Project AASHTOWare Project** Preconstruction™ **Civil Rights & Labor™** Info Tech® Field Interviewerm

- Data stored in single location
- Single standard security modal
- Captures information at the source
- Easy reporting of information from the various modules

Construction Implementation Timeline

2023 2024 2025

STATEWIDE TRUNKLINE PILOTS

ALL NEW TRUNKLINE PROJECTS

LOCAL PILOTS

ALL NEW LOCAL PROJECTS

20CO101(A025)

MICHIGAN DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION FOR CONSTRUCTION MANAGEMENT

COS:DCB

1 of 2

APPR:JJG:LFS:07-15-21

- a. Description. This work consists of complying with the Department's construction management processes. The Department will manage this contract using the AASHTOWare Project Construction Materials (APCM) software. Ensure all change orders are approved APCM. No paper documents, faxes, or other methods/media are permitted for change order approvals except as allowed by this special provision or specifically approved by the Engineer.
- b. Terminology. Replace the following terms in all of the contract:
 - Inspector's Daily Report (IDR) replaced with Daily Work Report (DWR)
 - Contract Modification replaced with Change Order
 - . Construction Pay Estimate Report replaced with Pay Estimate for Contractor
 - Contractor's Performance Evaluation replaced with Contractor Evaluation
 - Site Times replaced with Contract Times

The new terms have the same definition as the term being replaced.

c. Contractor Access to APCM. APCM access is available at no cost to all contractors associated with the project. APCM user accounts and access is granted using the State of Michigan Identity, Credential and Access Management solution, MILogin. MILogin is a web based access portal at the following website:

https://milogintp.michigan.gov

Use MILogin to submit all APCM access requests.

d. Roles and Contract Authority. Roles restrict what data each user can view and the actions they can perform in the system. Roles will be assigned at user creation through the MILogin access request process. Read only and change order approver roles are available to the Contractor. The change order approval role requires written authorization from an authorized officer of the company.

Contract authority grants the user the ability to use one of the user's roles on a specific contract. Contract authority will be granted by the Engineer at the request of the Contractor. Provide the Engineer with a list of users and the user role for this contract at the time of the preconstruction meeting.

Notify the Engineer within 24 hours of any user access changes for this contract.

e. Training. Additional documentation and training for APCM processes, details of scheduled classes and methods for requesting training are available by contacting the MDOT AASHTOWare Help Desk at 1-844-4MI-MDOT (1-844-464-6368) between the hours of 8:00 a.m. 20CO101(A025) 07-15-21

COS:DCB

2 of 2

and 4:00 p.m., Monday through Friday.

f. Technical Issue Resolution. Upon discovery of an APCM access issue the Contractor must immediately notify the Engineer and submit a notice to the e-mail resource at:

MDOT-ConstructionSoftware@michigan.gov.

- g. Change Order Approvals. Ensure electronic review/approval of change orders are accomplished through APCM approval decisions and automated e-mail notifications. An approval decision is the system recorded decision entered by the user. When a change order is ready for approval, the user with authority to approve is notified by e-mail. Submit the approval decision by accessing APCM, reviewing the change order, and recording the approval decision within the system.
- h. Data/File Retention. The electronic data and files stored within APCM are part of the official project documentation and will be retained per the current documentation retention schedule.
- Measurement and Payment. The work included in this special provision will not be paid for separately and is considered to be included in other pay items of work in the contract.

APCM User Access Request Form



MDOT AASHTOWare Project Construction & Materials User Account Request Form

Please complete this form to request a user account and access to MDOT's AASHTOWare Project Construction & Materials application. This form should be completed by the user requesting access.

* Required

User Information Section

This section will help us determine your required level of access and will give us the information we need to set up your user account. Please provide the following information:

1. First Name: *

Enter your answer

2. Middle Initial:

Enter your answer

Training



Classroom



Webinar



Recorded Video



AP Wiki

Training Schedule

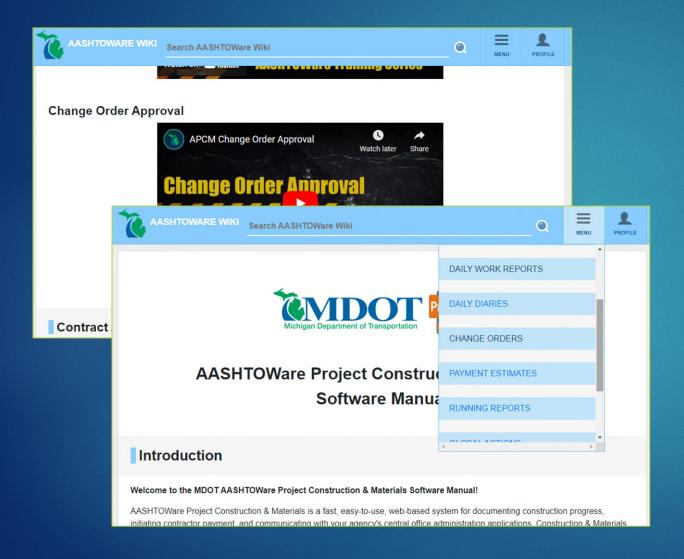
- Trainings will be scheduled regularly (like Projectwise training)
- Self-service sign up and management of bookings with Microsoft Bookings page



MDOT - AASHTOWare Project Construction & Materials Trainings

SELECT A SERVICE APCM for Engineers & Reviewers Office Tech Round Table • This training offers an overview of the soft... Read more • This session is provided as an open questi... Read more Free · 1 hour 30 minutes @ Free · 2 hours 🕀 APCM For Office Tech's APCM for Inspectors . This training offers in depth discussion of ... Read more . This training offers an overview of the soft... Read more Free · 8 hours 🗇 Free · 2 hours 30 minutes @ APCM for Contractors . This training offers an overview of the soft... Read more Free · 2 hours 🗇

AASHTOWare Wiki





https://mdotwiki.state.mi.us/aashtoware/

What's the future?

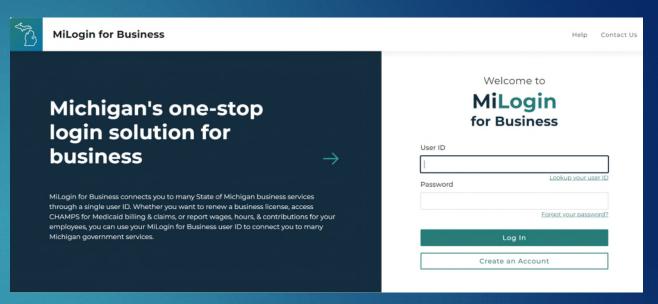


Aggregate Project Mission

"Digitize the aggregate sampling and testing workflows to improve aggregate tracking, analysis, and reporting to reduce audit risk."

What to look forward to...

- Access Via MILogin
- Live Data
 - "Real Time" Data
 - Direct Data Entry
- ► Fewer PDFs and signatures
 - Sample ID forms
 - Mix Designs
 - Weekly shipping reports



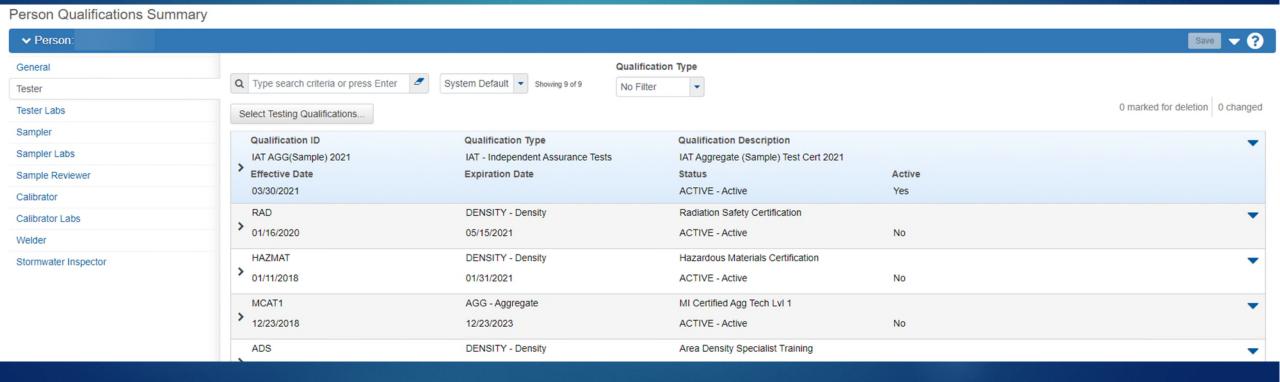
Aggregate Source Inventory (ASI)

- Data migrated into AASHTOWare Project
- Naming convention change
 - Added deposit type designation to ASI code
 - Retained historical ASI code for cross reference
- Foundational step for other system functions
- Improved Physical Property Test tracking

Michigan Department of Transportation Aggregate Source Inventory				*this listing includes sources in with information on file at N -addresses may b	MDOT Aggregate Quality	9/12/2
ASI	County	Region	Historical ASI	Quarry/Source Name	Producer	Source Address
01-0005SG	Alcona	North	01-005	Laidlaw(Wallace)	R. E. Glancy, Inc.	1048 M-65,Barton City,MI,48705
02-0060CA	Alger	Superior	02-060	Lindberg	A. Lindberg and Sons, In	nc. 5741 Percy Road(Co Road653), Shingleton, MI, 49884
02-0069SG	Alger	Superior	02-069	Turri	A. Lindberg and Sons, In	nc. 3202 Ladoga Road(Co Road281), Trenary, MI, 49891
02-0086SG	Alger	Superior	02-086	Carr	Bacco Construction Con	npa E7779 M-28,Munising,MI,49862
02-0087SG	Alger	Superior	02-087	Forest Land Group	Bacco Construction Corr	npa Pit Access Road, Christmas, MI, 49862
02-0088CA	Alger	Superior	02-088	Bed Rock	Mottes Sand & Gravel	6237 Percy Road (Co Road 653), Shingleton, MI, 49884
02-0089SG	Alger	Superior	02-089	Cunningham	Mottes Sand & Gravel	County Road 705, Burt Township, MI, 49884
02-0090SG	Alger	Superior	02-090	Peterson Pond		5370 Rielly Lake Road, Rapid River, MI, 49878
02-0091SG	Alger	Superior	02-091	Deerton		1387 M-28,Onota Township,MI,49822
	Alexan	Comparing		Viscours Description of Occasion	Dance Construction Con-	F 40046 D. Weight D 4 Chinalatan M 40004

Person Qualifications

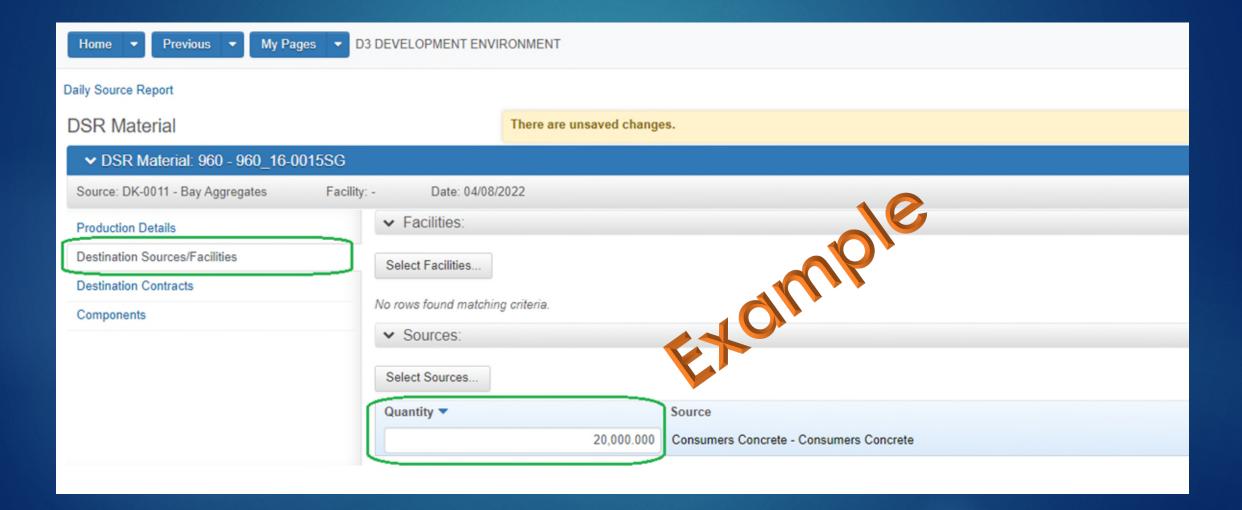
- Replacement of Construction Quality Partnership (CQP) program with Red Vector
- Tracking MCAT 1 & 2, Density, IATs, and more



Weekly Shipping Reports

- Known in the system as Daily Source Reports (DSRs)
 - Still weekly
 - ▶ Required for <u>ALL</u> suppliers shipping for MDOT contracts
 - ▶ Multiple materials can be listed on the same DSR
- Direct System access to suppliers to enter data into the system

Weekly Shipping Reports Cont.

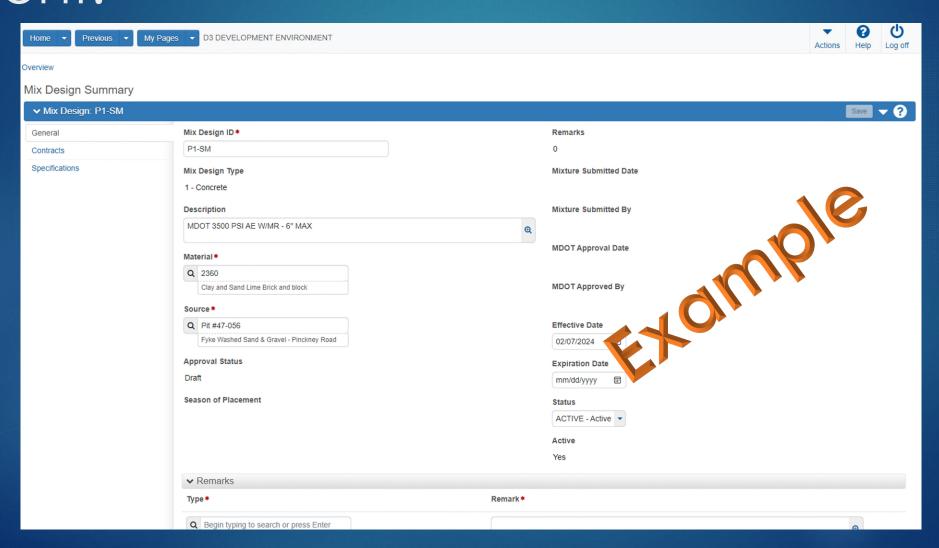


Job Mix Formulas (Mix Designs)

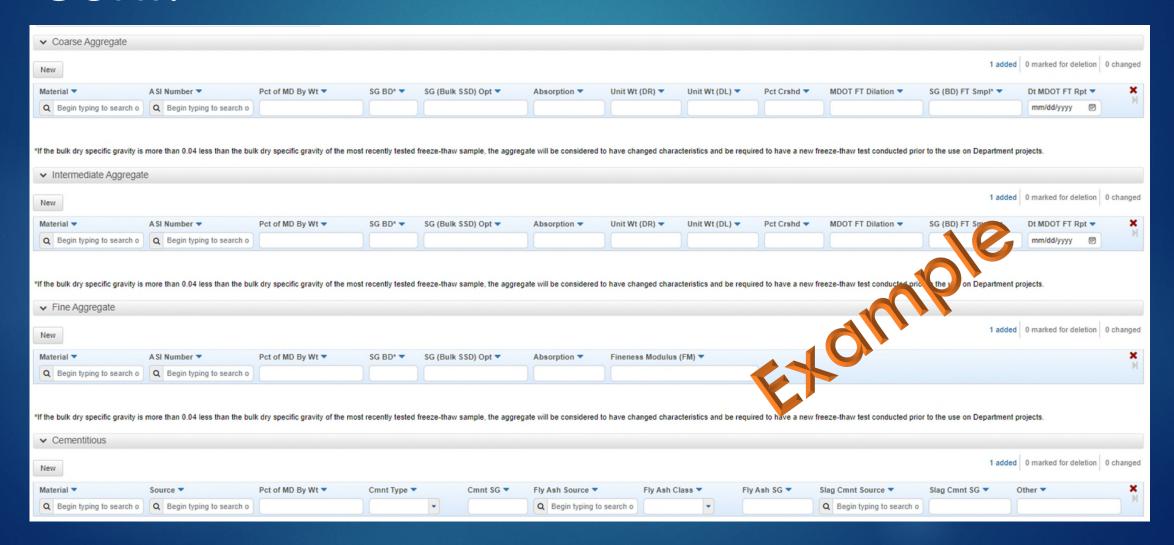
- Creating a statewide database of approved mix designs
- Incorporating MDOT Review and Approval Process

Michigan Department of Transportation 1976 (06/17)	This for	CONCI m applies only to	RETE FIELD the project listed be Project Engineer CO	COMMUN low and is not	IICATION transferable to o	ther projects S, Region, Insp	File 20	
CONTROL SECTION	PROJECT LOCATION			PROJECT ENGINEER				
CONCRETE SUPPLIER	PLANT LOCATION			PLANT NUMBER				
GRADE OF CONCRETE PSI REQUIREMEN		MIX DESIGN NUMBER		INTENDED USE (S)		CONTRACTOR QC PLAN Y SUBMITTED? (MDOT use only) N		
PRIME / SUBCONTRACTOR(S STANDARD SPEC DATE	QC/QA SPECI	TE JMF	EFFECTIVE D	AGG. CORRECTION				
		MATERIAL D	ESIGN SOURCES	S AND PROP	ERTIES			
COARSE AC	INTERMEDIATE AGGREGATE			FINE AGGREGATE				
Aggregate Type		Aggregate Type						
		Source Name			Source Name			
		MDOT Source No.			MDOT Source No.			
		MDOT Series Class			MDOT Series Cl			
Specific Gravity (Bulk Dry)*	Specific Gravity (Bulk Dry)*			Specific Gravity (Bulk Dry)*				
		Specific Gravity (Bulk SSD) optional			Specific Gravity (Bulk SSD) optional			
		Absorption			Absorption			
		Unit Weight (Dry Rodded) DR or			Fineness Moduli	ıs (FM)	-	
		Unit Weight (Dry Loose) DL		-				
		Percent Crushed MDOT Freeze-Thaw (F-T) Dilation			-			
		Specific Gravity (Bulk Dry) of F-T						
		Sample*						
	Date of MDOT Freeze-Thaw Report							

Job Mix Formulas (Mix Designs) cont.



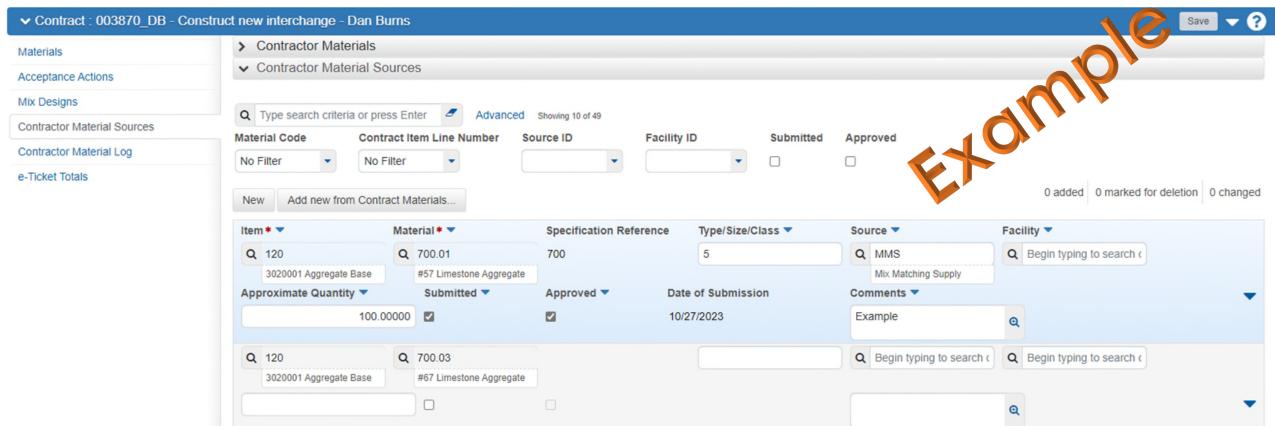
Job Mix Formulas (Mix Designs) cont.



Material Source Lists

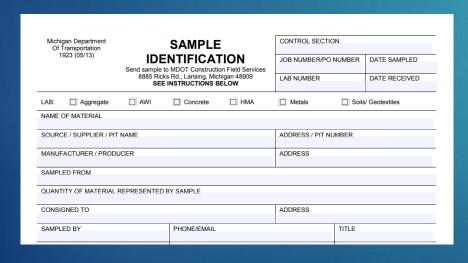
- Direct entry and submission within the system
- Reduction of processing time

Contract Materials and Acceptance Actions Summary



Improved Sample Tracking

"Bag it, tag it, scan it, track it, test it, report it"







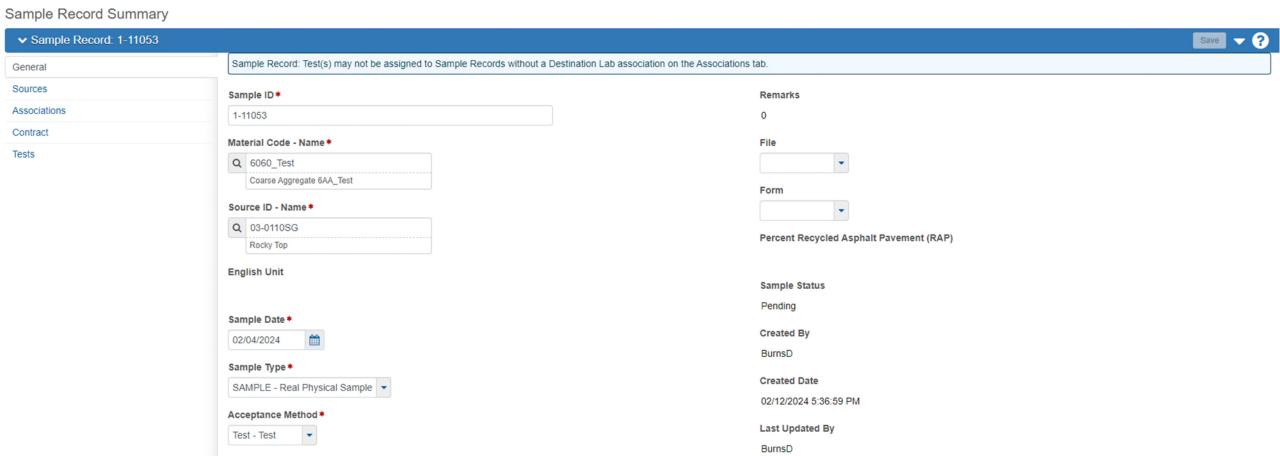




Improved Sample Tracking

Overview Find Sample Maintain Test Queue Receive at Destination Lab Receive at Lab Unit Review Samples

"Bag it, tag it, scan it, track it, test it, report it"



Thank You!

MDOT-CONSTRUCTIONSOFTWARE@MICHIGAN.GOV