

# **HMA MIX DESIGN (District) USER GUIDE AGENCY**

- Switch Role
- Brent Slade
- ADMIN
- CONSTRINSP\_KS
- CONTRACTS\_KS
- CONTRACTS\_KS\_NONC
- EXTERNALBIDDER
- EXTERNALPRIMEPAYROLL
- EXTERNALSUBPAYMENT
- EXTERNALSUBPAYROLL
- KDOT\_CONTRACTS
- KDOT\_LABORUSER
- MATERIALUSER\_KS**
- OCC
- PROJMAN\_KS\_AREA
- PROJMAN\_KS\_BUREAU
- PROJMAN\_KS\_CO
- PROJMAN\_KS\_DISTRICT
- PROJMAN\_KS\_FHWA
- Receive Sample at Destination Lab
- Receive Sample at Lab Unit
- Review Samples
- Review Tests

Construction Person Overview Reference Data

User (Copied from MATERIALUSER)

- Construction
  - Change Order
  - Contract Administration
  - Contract Claims
  - Contract Permits
  - Contract Progress
  - Contract Specific Authorities
  - Contract Time
  - Contract Vendor Assets
  - Contractor Evaluation
  - Meetings
  - Payment Estimate Accounting
  - Payment Estimate Approval Decisions
  - Payment Estimates

Person Overview Save ?

Qualifications User Reference Employee

No Filter No Filter No Filter

0 marked for deletion | 0 changed

Enter search criteria above to see results or Show first 10

Reference Data ?

- Administrative Offices
- Alternate Test Workflow
- Code Tables

On this page: Materials Materials Worksheets Construction Person Overview Reference Data

### PROJECT KDOT role for Materials User (Copied from MATERIALUSER)

- Materials**
  - Acceptance Actions
  - Action Relationships
  - Daily Source Reports
  - Find Sample
  - Mix Design ← **Click "Mix Design".**
  - Product Group Sample Reviewer Assignment
  - Sample Records
- Materials Worksheets**
  - Enter Test Results
  - Maintain Test Queue
  - Receive Sample at Destination Lab
  - Receive Sample at Lab Unit
  - Review Samples
  - Review Tests
- Construction**
  - Change Order
  - Contract Administration
  - Contract Claims
  - Contract Permits
  - Contract Progress
  - Contract Specific Authorities
  - Contract Time
  - Contract Vendor Assets
  - Contractor Evaluation
  - Meetings
  - Payment Estimate Accounting
  - Payment Estimate Approval Decisions
  - Payment Estimates

### Person Overview Save

Advanced
Qualifications: No Filter
User: No Filter
Reference Employee: No Filter

0 marked for deletion | 0 changed

Enter search criteria above to see results or Show first 10

- Reference Data**
  - Administrative Offices
  - Alternate Test Workflow
  - Code Tables

### Mix Design Overview

▼ Mix Design Overview Save ?

Q Type search criteria or press Enter Advanced

2. Click "Add".

Actions ×  
Add

0 marked for deletion | 0 changed

Enter search criteria above to see results or Show first 10

Overview

### Add Mix Design

▼ Add Mix Design 7. Click "Save".  ?

Mix Design ID\*  1. Enter your Mix Design ID. MUST be unique.

Type\*  2. Select "HMA Surface and Base Mixture - HMA Surf & Base Mixes" from drop down.

Description

Material\*  3. Enter your mix designation. EXAMPLE: HMA\_12.5A

Source\*  4. Enter source for the mix design.

Facility

▼ Remarks

Type\*  Remark\*

Approval Date  DO NOT enter an Approval Date at this point.

Approved By

Effective Date  5. Enter the Effective Date for the mix design.

Expiration Date

Status  6. Select "Active" from the drop down.

SUGGESTION: Identify the project and mix here.

Overview

### Mix Design Summary

Mix Design 4G21018C - 69-19 KA-1554-03 SR-12.5A (PG 64-22) Successfully Saved

▼ Mix Design: 4G21018C

1. Click the component action button.



- General
- Component Materials
- Contracts
- Specifications
- SMFMI

**Mix Design ID \***  
4G21018C

**Mix Design Type**  
HMA Surface and Base Mixture - HMA Surf & Base Mixes; SM

**Description**  
69-19 KA-1554-03 SR-12.5A (PG 64-22)

**Material \***  
HMA\_12.5A  
Hot Mix Asphalt SR/SM-12.5A

**Source \***  
CC079300  
HECKERT CONST CO INC (PITTSBURG,KS)

**Remarks**  
0

**Approval Date**  
[Calendar icon]

**Approved By**  
[Text field] or press Enter

**Effective Date**  
06/17/2021 [Calendar icon]

**Expiration Date**  
[Calendar icon]

**Status**  
ACTIVE - Active

**Active**  
Yes

2. Select "HMA Mix Design".



- Actions
- Add New Mix Design
- Add New SMFMI
- Copy
- Views
- Attachments
- Bituminous HMA Mix Design
- HMA Mix Design
- Issues
- Links

▼ Remarks

Type *	Remark *
[Dropdown]	[Text field]

1. Select the location for the Mix placement.  
EXAMPLE: Mainline

2. Enter the compaction temperature range for the mix.

3. Enter the information for the mix component.

4. Enter the binder information.

5. Enter the "N" values.

6. Enter information for any additives.

7. Enter the single point gradation for the mix.

8. Click "Save".

NOTE: %/Gsb is automatically populated once the Gsb is entered.

NOTE: Repeat step 3 for each component material.

The screenshot shows a software interface for Mix Design. At the top, there are navigation buttons: Home, Previous, Actions, Help, and Log off. Below these are tabs for Mix Design and Age. A 'Save' button is visible in the top right. The main form is divided into several sections:

- Mix Design ID:** 4G21018C
- Mix Blend:** Asphalt SR/SM-12.5A
- Location:** A dropdown menu.
- Comp Temp R:** A text input field.
- Material Component Table:** A table with columns: Material Code, Source, Source Name, Local Name, %, Gsb, and % / Gsb. There are 8 rows, each with a search input for the Source column.
- Binder Information:** Fields for Binder Type, Source, Source Name, Location, Combined Aggregate Gsb, Target AC, and Gb of added AC.
- Additives:** Fields for Additive (Warm Mix, Anti-Strip, Rejuvenator), Source, Source Name, Product, and %.
- Single Point Gradation:** Fields for Mix Design Single Point and Virgin Aggregate Single Point, with a row of input boxes for sieve sizes: 1.5, 1, 3/4, 1/2, 3/8, #4, #8, #16, #30, #50, #100, #200.

Red arrows and callout boxes provide instructions for each step. Step 1 points to the Location dropdown. Step 2 points to the Comp Temp R field. Step 3 points to the Source column of the material component table. Step 4 points to the Binder Type dropdown. Step 5 points to the Nini, Ndes, and Nmax input fields. Step 6 points to the Product column of the additives table. Step 7 points to the 3/8 sieve size input box. Step 8 points to the Save button. Two notes are also present: one stating that %/Gsb is automatically populated, and another stating to repeat step 3 for each component material.

Click "Home".

Mix Design

Agency View Summary

Save Complete

0 changed

Mix Design ID: 4G21018C    Hot Mix Asphalt SR/SM-12.5A    Location: M - Mainline    Comp Temp R: 290-299

\*\*\* Mix Blend \*\*\*

Material Code	Source	Source Name	Local Name	%	Gsb	% / Gsb
AGGHMA_CS-1	00801725	MIDWEST MINERALS INC (PITTSBURG WEST QUARRY)	S29 T30S R24E BJCK	10.00	2.594	3.855
AGGHMA_CS-1A	00801725	MIDWEST MINERALS INC (PITTSBURG WEST QUARRY)	S29 T30S R24E BJCK	30.00	2.586	11.601
AGGHMA_CS-2	00801725	MIDWEST MINERALS INC (PITTSBURG WEST QUARRY)	S29 T30S R24E BJCK	18.00	2.548	7.064
AGGHMA_SSG	00820103	CORNEJO (KINGSBURY SAND)(SEDGWICK, CO)	S23 T26S R01W SSG	17.00	2.603	6.531
AGGHMA_CH-1	00821816	WILLIAMS DIVERSIFIED MAT(LAWYERS PILE)(OTTAWA OK)	S28 T29N R23E Lawyer Pile	10.00	2.544	3.931
AGGHMA_RAP	KD999904	K.D.O.T. DISTRICT-4 (CHANUTE,KS)	US-400	15.00	2.575	5.825
				<b>Total Aggregate</b>		38.807
				<b>Combined Aggregate Gsb</b>		2.577
				<b>Gb of added AC</b>		1.0110
				<b>Target AC</b>		5.90

Blinder Type: 021PG6422    Source: 00002801    Source Name: VALERO ENERGY CORP    Location: Ark City

Additive	Source	Source Name	Product	%	Nini	Ndes	Nmax
Warm Mix					7	75	
Anti-Strip	00069701	ARR MAZ CUSTOM CHEMICALS (MULBERRY, FL)	24020000	0.40			115
Rejuvenator							

0 changed

	1.5	1	3/4	1/2	Sieve (% retained)							
					3/8	#4	#8	#16	#30	#50	#100	#200
Mix Design Single Point		0	0	4	10	38	57	69	78	87	93	95.8
Virgin Aggregate Single Point		0	0	4	11	40	59	70	78	88	93	95.6



On this page: Reference Data Materials Materials Worksheets Construction Person Overview

### PROJECT KDOT role for Materials User (Copied from MATERIALUSER)

- Reference Data
  - Administrative Offices
  - Alternate Test Workflow
  - Code Tables
  - Contract Claim Types
  - Counties
  - Design Evaluation & Structure
  - Destination Labs
  - Districts
  - Employees
  - Ethnic Groups
  - Facilities
  - Issues
  - Item Bulk Editor
  - Item Family
  - Item Group Sets
  - Item Mappings
  - Items
  - Lab
  - Material Categories
  - Materials
  - Mix Design Types
  - Product Group
  - Product Group Assignments
  - Qualifications
  - Reference Contract Time
  - Reference Sample Statuses
  - Reference Specifications
  - Remark Configuration
  - Source Management Level
  - Sources
  - Special Provisions
  - Test Assignment Information
  - Test Equipment
  - Test Triggered Events
  - Tests
  - Vendors
  - Weather
- Materials
  - Acceptance Actions
  - Action Relationships
  - Daily Source Reports
  - Find Sample
  - Mix Design
  - Product Group Sample Reviewer Assignment
  - Sample Records
- Materials Worksheets
  - Enter Test Results
  - Maintain Test Queue
  - Receive Sample at Destination Lab
  - Receive Sample at Lab Unit
  - Review Samples
  - Review Tests
- Construction
  - Change Order
  - Contract Administration
  - Contract Claims

Click "Sample Records".

### Sample Record Overview

Sample Record Overview

1. Click on the component action button.

Type search criteria or press Enter Advanced

2. Click "Add".

Actions  
Add

0 marked for deletion | 0 changed

Enter search criteria above to see results or Show first 10

Overview

Add Sample Record

1. Enter the Sample ID. It should be the Mix Design number followed by "Verification Data".

7. Click "Sample Location".

6. Click "Save".

3. Enter the material code for the mix.

2. Enter the date the material was sampled.

4. Select "VER-Verification" from the drop down.

5. Select "ACCP-KDOT Tests And/Or Field Inspection" from the drop down.

▼ Add Sample Record

General

Sample ID\*

Up to 53 characters

Material Code - Name

Begin typing to search or press Enter

Lab Control Number

Lab Reference Number

Lot/Heat Number

Lot/Heat Type

Specimen Number

Sample Size

Sample Size Units

Represented Quantity

Represented Quantity Units

Sample Date

Sample Status

Sample Type

Acceptance Method

Authorized By

Authorized Date

Revising Sample ID

Revised By

Link To Related Sample ID

Linked Related Sample ID

Save

Sample Location information is optional. IF you enter any information on this tab remember to click "Save" when you are done.

Home Previous My Pages TEST ENVIRONMENT Actions Help Log off

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

### Sample Record Summary

Sample Record 4G21018BWS Verification Data - Successfully Saved

Sample Record: 4G21018BWS Verification Data Save ?

General Sample Record: Test(s) may not be assigned to Sample Records without a Destination Lab association on the Associations tab.

Sample Location

Additional Information Sources Associations Contract Tests

Sampled From Reference

Sample Origin Station

Geographic Area Station Plus

Latitude Offset Distance

Longitude Offset Direction

Distance From Grade Elevation

Distance From Grade Units Comments

Sampled Ledge Name

Location

Start Coordinate X	End Coordinate X
Start Coordinate Y	End Coordinate Y
Start Coordinate Z	End Coordinate Z
Start Location Method	End Location Method
Start Location Quality	End Location Quality
Start Location Quality Unit	End Location Quality Unit
Start Location Issue	End Location Issue
Start Location Created By	End Location Created By
Start Location Created Date	End Location Created Date
Start Location Last Updated By	End Location Last Updated By
Start Location Last Updated Date	End Location Last Updated Date
Start Location End Active Date	End Location End Active Date

Click "Additional Information".

### Sample Record Summary

Save Complete

4. Click "Save".



General

Sample Record: Test(s) may not be assigned to Sample Records without a Destination Lab association on the Associations tab.

Sample Location

Sampler ID - Name

Begin typing to search or press Enter

1. Enter your name as the Sampler ID.

Created By

KDOTAD/slade

Additional Information

Witnessed By ID - Name

Begin typing to search or press Enter

Created Date

06/23/2021 1:22:22 PM

Sources

Requested By

Begin typing to search or press Enter

Last Updated By

KDOTAD/slade

Associations

Intended Use

Searchable text field for Intended Use.

Last Updated Date

06/23/2021 1:25:29 PM

Contract

Mix Design Type

Drop-down menu for Mix Design Type.

2. Select "HMA Surface and Base Mixture-HMA Surf & Base" from the drop down.

DWR Inspector

DSR Inspector

Test

Mix Design ID

Begin typing to search or press Enter

3. Enter your Mix Design ID.

Limited Sample Access Last Modified By

Limited Sample Access Last Modified Date

Buy America

Buy USA Requirements

Drop-down menu for Buy USA Requirements.

Administrative Office Modified By

slade

Administrative Office Modified Date

06/23/2021

5. Click "Sources".

### Sample Record Summary

Save Complete X

Sample Record: 4G21018BWS Verification Data Save ?

- General
- Sample Location
- Additional Information
- Sources
- Associations
- Contract
- Tests

Sample Record: Test(s) may not be assigned to Sample Records without a Destination Lab association on the Associations tab.

#### Primary Source/Facility

Select Primary Source... Select Primary Facility...

Source ID - Source Name	Facility ID - Facility Name
-	-

Facility City

Source Type Facility Type

Source Location Description Facility Location Description

SMFMI Name  
Q Begin typing to search or press Enter

#### Additional Sources

Q Type search criteria or press Enter Advanced

Select Sources... 0 marked for deletion | 0 changed

No rows found matching criteria.

#### Additional Facilities

Q Type search criteria or press Enter Advanced

Click "Select Primary Source".

Home Overview Sample Sources Associations Contract Tests

### Select Primary Source

Log off

Q Type search criteria or press Enter **Advanced**

Enter search criteria above to see results of **Show first 10** 0 selected

Add to Sample Record

Source ID - Source Name	Facility ID - Facility Name
-	-
Source City	Facility City
Source Type	Facility Type
Source Location Description	Facility Location Description

SMFMI Name

Q Begin typing to search or press Enter

Additional Sources

Q Type search criteria or press Enter **Advanced**

Select Sources... 0 marked for deletion | 0 changed

No rows found matching criteria.

Additional Facilities

Q Type search criteria or press Enter **Advanced**

Either enter the source name or click "Show first 10".

Home Overview Sample Sources Association Contract Tests

### Select Primary Source

Q heckert Advanced Showing 3 of 3 1 selected

**1. Select the source from the list.**

Source ID - Name	Source City	Location Description
✓ CC079300 - HECKERT CONST CO INC (PITTSBURG,KS)	P - PRODUCER	PITTSBURG
CC079306 - HECKERT CONST CO CMI (OWNER # 06)	M - MIX PLANT	PITTSBURG
CC079307 - HECKERT CONST CO DEI (OWNER #07)	M - MIX PLANT	PITTSBURG

**2. Click "Add to Sample Record".** → Add to Sample Record

Source Location Description Facility Location Description

SMFMI Name

Q Begin typing to search or press Enter

Additional Sources

Q Type search criteria or press Enter Advanced

Select Sources... 0 marked for deletion | 0 changed

No rows found matching criteria.

Additional Facilities

Q Type search criteria or press Enter Advanced



### Sample Record Summary

There are unsaved changes. X

Sample Record: 4G21018BWS Verification Data **1. Click "Save".** Save ?

General: Sample Record: Test(s) may not be assigned to Sample Records without a Destination Lab association on the Associations tab.

Sample Location: Primary Source/Facility

Additional Information: Select Primary Source... Select Primary Facility...

Source ID - Source Name	Facility ID - Facility Name
CC079300 - HECKERT CONST CO INC (PITTSBURG,KS)	
Source City	Facility City
PITTSBURG	
Source Type	Facility Type
P - PRODUCER	
Source Location Description	Facility Location Description

SMFMI Name:

Additional Sources:  Advanced

Select Sources... 0 marked for deletion | 0 changed

No rows found matching criteria.

Additional Facilities:  Advanced

2. Click "Associations".



### Sample Record Summary

Save Complete

Sample Record: 4G21018BWS Verification Data Save ?

- General
- Sample Location
- Additional Information
- Sources
- Associations
- Contract
- Tests

Sample Record: Test(s) may not be assigned to Sample Records without a Destination Lab association on the Associations tab.

Q Type search criteria or press Enter Advanced

New ← Click "New".

0 added | 0 marked for deletion | 0 changed

No rows found matching criteria.

### Sample Record Summary

Save Complete

Sample Record: 4G21018BWS Verification Data **3. Click "Save".** Save

- General
- Sample Location
- Additional Information
- Sources
- Associations
- Contract
- Tests**

Sample Record: Test(s) may not be assigned to Sample Records without a Destination Lab association on the Associations tab.

Type search criteria or press Enter Advanced

New

1 added 0 marked for deletion 0 changed

Association Type\* Association Value\*  
Begin typing to search or press Enter

**4. Click "Tests".**

**1. Select "Destination Lab" from the drop down.**

**2. Enter your lab.**

### Sample Record Summary

Save Complete x

Sample Record: 4G21018BWS Verification Data Save ?

- General
- Sample Location
- Additional Information
- Sources
- Associations
- Contract
- Tests

Material: HMA\_12.5A - Hot Mix Asphalt SR/SM-12.5A  
Sample Type: VER - Verification

Q Type search criteria or press Enter Advanced

1. Click the action button next to the "Assign Tests" button.

Assign Tests

0 marked for deletion | 0 changed

- Actions
- Assign Default Tests

2. Click "Assign Default Tests".

### Sample Record Summary

Save Complete X

Sample Record: rickba-Training Guide Verification Data Save ?

- General
- Sample Location
- Additional Information
- Sources
- Associations
- Contract
- Tests

Material: HMA\_12.5A - Hot Mix Asphalt SR/SM-12.5A

Sample Type: VER - Verification

Q Type search criteria or press Enter Advanced Showing 3 of 3

Assign Tests 0 marked for deletion | 0 changed

Test Number	Test Method	Destination Lab	Lab Unit	MAA <span style="font-size: small;">▼</span>	Required	Default	Test Status <span style="float: right;">▼</span>
1.0	KT-56	District 1 Materials	District 1 Materials Lab	<input checked="" type="checkbox"/>	No	Yes	05 - Test Assigned <span style="float: right;">▼</span>
1.0	HMA Mix Analysis	District 1 Materials	District 1 Materials Lab	<input checked="" type="checkbox"/>	No	Yes	05 - Test Assigned <span style="float: right;">▼</span>
1.0	Misc. Aggregate Test	District 1 Materials	District 1 Materials Lab	<input checked="" type="checkbox"/>	No	Yes	05 - Test Assigned <span style="float: right;">▼</span>

### Sample Record Summary Save Complete

#### Sample Record (Add Training Code Verification Data)

General

Sample Location

Additional Information

Source

Associations

Contact

Tests

Material	Sample Type
HMA_125A-Hot Mix Asphalt (R) 5A-125A	VER - Verification

  

Test Number	Test Method	Destination Lab	Lab Unit	MMA	Required	Default	Test Status
10	HMA Mix Analysis	District 1 Materials	District 1 Materials Lab	IS	No	Yes	IS - Test Ass
10	Misc Aggregate Test	District 1 Materials	District 1 Materials Lab	IS	No	Yes	IS - Test Ass

1. Click the row action button.

(0 marked for deletion) (0 changed)

- Actions
- Delete
- Exclude from Search Results
- Open
- Tasks
- Add Test Run
- Generate Test Results Comparison
- Send Cylinder Data to Filesystem
- Views
- Adjustments
- HMA Superpave**
- Links
- Tracked Issues

2. Click "HMA Superpave".



Pages 23-27 are the same screen.

3. Enter data from the KT-39 test.

KT-39: HMA, GMM, Rice THEORETICAL MAX

	A	B
Flask used Yes/No	<input type="text"/>	<input type="text"/>
Mass Of Sample and Container (g)	<input type="text"/>	<input type="text"/>
Mass Of Container (g)	<input type="text"/>	<input type="text"/>
Mass of Sample (g)	<input type="text"/>	<input type="text"/>
Water Temperature (°F)	<input type="text"/>	<input type="text"/>
Container & Sample & Water (g)	<input type="text"/>	<input type="text"/>
Mass of Container & Water (g)	<input type="text"/>	<input type="text"/>
Mass Sample in Water (g)	<input type="text"/>	<input type="text"/>
Max. Sp. Gr. (Gmm)	<input type="text"/>	<input type="text"/>
Average Gmm	<input type="text"/>	<input type="text"/>

4. Enter data from the KT-58 test.

KT-58 (Gyratory Plugs)

Nini Revolutions: 7

Ndes Revolutions: 75

Nmax Revolutions: 115      Compacting Temp. Range (F): 290-299

	A	B
Mold. Temp. (F)	<input type="text"/>	<input type="text"/>
HT.@Nini (mm)	<input type="text"/>	<input type="text"/>
HT.@Ndes (mm)	<input type="text"/>	<input type="text"/>
HT.@Nmax (mm)	<input type="text"/>	<input type="text"/>
Mass In Air (Dry)	<input type="text"/>	<input type="text"/>
Mass In Water(Sat.)	<input type="text"/>	<input type="text"/>
Mass In Air(Sat.)	<input type="text"/>	<input type="text"/>
Sp.Gr.(Nmax)	<input type="text"/>	<input type="text"/>
% Gmm(Nmax)	<input type="text"/>	<input type="text"/>
Sp.Gr.(Ndes)	<input type="text"/>	<input type="text"/>
% Gmm(Ndes)	<input type="text"/>	<input type="text"/>
Sp.Gr.(Nini)	<input type="text"/>	<input type="text"/>
% Gmm(Nini)	<input type="text"/>	<input type="text"/>



KT-57 (Ignition Oven Burn-off)

Sample & Basket Mass (g)

Basket Mass (g)

Mass of Sample (g)

Aggregate & Basket Mass (g)

Mass Loss (g)

Correction Factor (%)

%AC (Corrected)

5. Enter data from the KT-57 test.

Sieve Analysis

Sample Dry Mass (g)

Sample Mass After Wash (g)

Sieve	Grams Retained	% Retained
1 1/2"	<input type="text"/>	<input type="text"/>
1	<input type="text"/>	<input type="text"/>
3/4	<input type="text"/>	<input type="text"/>
1/2	<input type="text"/>	<input type="text"/>
3/8	<input type="text"/>	<input type="text"/>
#4	<input type="text"/>	<input type="text"/>
#8	<input type="text"/>	<input type="text"/>
#16	<input type="text"/>	<input type="text"/>
#30	<input type="text"/>	<input type="text"/>
#50	<input type="text"/>	<input type="text"/>
#100	<input type="text"/>	<input type="text"/>
#200	<input type="text"/>	<input type="text"/>
Pan	<input type="text"/>	<input type="text"/>

Test Acceptability

-#200

Surface Area 0.00

6. Enter your Sieve Analysis information.

Recap of Mix Properties

Target % AC in the Mix

% AC by Mass of Mix

Pages 23-27 are the same screen.

Sp. Gr. of AC	<input type="text"/>	7. Enter the Specific Gravity of the Virgin AC.
Bulk Sp. Gr. of Aggr.		
Max. Sp. Gr.		
Percent Passing the #200 Sieve		
Surface Area	0.00	
Bulk Sp. Gr. of Mix		
Eff. Sp. Gr. of Aggr.		
Absorbed % AC		
Eff. Asphalt Content		
% VMA		
% Air Voids		
% VFA		
Eff. Film Thickness		
Dust/Binder Ratio		
% AC(Dev. from Target)		
% Gmm @ Nini		
% Gmm @ Nmax		

8. Click the up arrow to return to the top of the page.

Pages 23-27 are the same screen.

Sample Record Test ← 10. Click "Sample Record Test".

Agency View Summary

Save Complete

▼ HMA Superpave 9. Click "Save". Save ?

0 changed

Quality Control/Verification Sublot/Lot Volumetrics Report

Project Number:	Contract No.	Sample ID	4G21018BWS Verification Data
Mix Type: Hot Mix Asphalt SR/SM-12.5A	Location: M - Mainline	Tests performed by:	Slade Brent
Design Lab No.: 4G21018C	Represented Qty (Tons)	Certified Inspector #:	
Lot/Sublot #:			
Date Sampled: 06/17/2021	Remarks:	Verification of Mix Design Submitted by Heckert	
PG Grade	021PG6422		

0 changed

Mix Blend

Mix Design:	Source	Source Name	Local Name	%	Gsb	% / Gsb	
4G21018C	AGGHMA_CS-1	00801725	MIDWEST MINERALS INC (PITTSBURG WEST QUARRY)	S29 T30S R24E BJCK	10.00	2.594	3.855

Enter Test Results Maintain Test Queue Review Samples Review Tests Sample Record ← 3. Click "Sample Record".

### Sample Record Test Summary

2. Click "Save". Save ?

Sample Record ID: 4G21018BWS Verification Data  
Test Number: 1.0 Test Method - Description: HMA Mix Analysis - HMA Mix Analysis (KT-58, KT-15-III, KT-39, KT-57, KT-34)

- General
- Testers
- Reference Specifications
- Retests

**Test Information**

<b>Test Status</b> 05 - Test Assigned	<b>Remarks</b> 0
<b>Priority</b>	<b>Planned Test Start Date</b> <input type="text"/>
<b>Default Test</b> Yes	<b>Test Start Date</b> 06/23/2021
<b>Required Test</b> No	<b>Estimated Completion Date</b> <input type="text"/>
<b>Due Date</b> <input type="text"/>	<b>Actual Completion Date</b>

**Sample Information**

<b>Sample Type</b> VER - Verification	<b>Contract ID</b>
<b>Lab Unit</b> District 4 Materials Lab - District 4 Materials Lab Unit	<b>Source</b> CC079300 - HECKERT CONST CO INC (PITTSBURG,KS)
<b>Lab Reference Number</b>	<b>Sample Date</b>
<b>Test Result Value</b> <input type="text"/>	<b>Sample Record Remarks</b> 0
	<b>Counts Toward MAA</b> No

1. Select the appropriate Test Result. Options are Pass, Fail, PAAA or COMP.

**Sample Record Remarks**

Type	Remark
------	--------

**Additional Test Information**

<b>Retest Test</b> No	<b>Reportable</b> Yes
<b>Number of Retests</b>	<b>Updateable</b> Yes
<b>Retest Requested</b> No	
<b>Test Requested</b> No	

**Remarks**

Type *	Remark *
<input type="text"/>	<input type="text"/>

### Sample Record Summary

Sample Record: rickba-Training Guide Verification Data Save ?

- General
- Sample Location
- Additional Information
- Sources
- Associations
- Contract
- Tests**

Click "Test".

Sample ID\*  
rickba-Training Guide Verification Data

Up to 53 characters  
Name  
HMA\_12.5A  
Hot Mix Asphalt SR/SM-12.5A

Lab Reference Number

Lot/Heat Number

Lot/Heat Type

Represented Quantity

Represented Quantity Units  
Begin typing to search or press Enter

Lab Control Number  
CNrickba-Training Guide Verification Data

Specimen Number

Remarks

0

Sample Date

02/22/2022

Sample Status

Received at Destination Lab

Sample Type

VER - Verification

Acceptance Method

ACCP - KDOT Tests And/Or Field Inspection

Authorized By

Authorized Date

Revised By

Link To Related Sample ID

Begin typing to search or press Enter

Linked Related Sample ID

Remarks

Type*	Remark*

### Sample Record Summary

Sample Record: rickba-Training Guide Verification Data Save ?

- General
- Sample Location
- Additional Information
- Sources
- Associations
- Contract
- Tests

Material: HMA\_12.5A - Hot Mix Asphalt SR/SM-12.5A  
Sample Type: VER - Verification

Type search criteria or press Enter Advanced Showing 3 of 3

1. Click the row action button for the "KT-56" test.

Assign Tests

Test Number	Test Method	Destination Lab	Lab Unit	MAA	Required	Default	Test Status	
1.0	KT-56	District 1 Materials	District 1 Materials Lab	<input checked="" type="checkbox"/>	No	Yes	05 - Test As	
1.0	HMA Mix Analysis	District 1 Materials	District 1 Materials Lab	<input checked="" type="checkbox"/>	No	Yes	05 - Test As	
1.0	Misc. Aggregate Test	District 1 Materials	District 1 Materials Lab	<input checked="" type="checkbox"/>	No	Yes	05 - Test As	

- Actions
- Delete
- Exclude from Search Results
- Open
- Tasks
- Add Test Run
- Generate Test Results Comparison
- Send Cylinder Data to ForneyVault
- Views
- Attachments
- Links
- Tracked Issues

2. Click "Delete".

### Sample Record Summary

Sample Record: rickba-Training Guide Verification Data Save ?

- General
- Sample Location
- Additional Information
- Sources
- Associations
- Contract
- Tests

Material: HMA\_12.5A - Hot Mix Asphalt SR/SM-12.5A  
Sample Type: VER - Verification

Q Type search criteria or press Enter Advanced Showing 3 of 3

Assign Tests

Test Number	Test Method	Destination Lab	Lab Unit	MAA	Required	Default	Test Status
1.0	KT-56	District 1 Materials	District 1 Materials Lab	<input checked="" type="checkbox"/>	No	Yes	05 - Test Assigned
1.0	HMA Mix Analysis	District 1 Materials	District 1 Materials Lab	<input checked="" type="checkbox"/>	No	Yes	05 - Test Assigned
1.0	Misc. Aggregate Test	District 1 Materials	District 1 Materials Lab	<input checked="" type="checkbox"/>	No	Yes	05 - Test Ass

1. Click the row action button for "Misc. Aggregate Test".

2. Click "Misc. Aggregate Test".

- Actions
- Delete
- Exclude from Search Results
- Open
- Tasks
- Add Test Run
- Generate Test Results Comparison
- Send Cylinder Data to ForneyVault
- Views
- Attachments
- Links
- Misc. Aggregate Test
- Tracked Issues

2. Once done scroll to the top and enter the Completion Date and then click "Save".

3. Click "Sample Record Test" link.

▼ KT-57: Determination of Ignition Burn-off Correction Factor

New 0 a

Target AC %

	TRIAL 1	TRIAL 2
Mass of Sample & Basket, g	<input type="text" value="4,724.9"/>	<input type="text" value="4,557.4"/>
Mass of Basket, g	<input type="text" value="3,216.8"/>	<input type="text" value="3,049.8"/>
Mass of Sample, g	1,508.1	1,507.6
Mass of Aggregate & Basket, g	<input type="text" value="4,635.6"/>	<input type="text" value="4,467.9"/>
Mass of Basket, g	3,216.8	3,049.8
Mass Loss, g	89.3	89.5
% AC by Mass of Mix (Uncorrected)	5.92	5.94
Difference from Target %	0.02	0.04
Average:	0.03 Correction Factor (use this)	

----- Burn-off Gradation -----

Orig. Mass, g	1.5" Sieve	1" Sieve	3/4" Sieve	1/2" Sieve	3/8" Sieve	#4 Sieve	#8 Sieve	#16 Sieve	#30 Sieve	#50 Sieve	#100 Sieve	#200 Sieve	*** Mass Inputs, (g) ***
<input type="text" value="1,543.5"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="0.0"/>	<input type="text" value="50.0"/>	<input type="text" value="175.0"/>	<input type="text" value="565.0"/>	<input type="text" value="900.0"/>	<input type="text" value="1,100.0"/>	<input type="text" value="1,240.0"/>	<input type="text" value="1,365.0"/>	<input type="text" value="1,430.0"/>	<input type="text" value="1,470.0"/>	
Final Weight, g	<input type="text" value="1,540.76"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="3"/>	<input type="text" value="11"/>	<input type="text" value="37"/>	<input type="text" value="58"/>	<input type="text" value="71"/>	<input type="text" value="80"/>	<input type="text" value="88"/>	<input type="text" value="93"/>	<input type="text" value="95.2"/> *** Percent, (%) ***
Wash Loss, g	<input type="text" value="2.8"/>												

1. Enter the weights for the Ignition Burn-Off and the Gradation.



### Sample Record Test Summary

There are unsaved changes.

Sample Record ID: 4G21018B Verification Data

2. Click "Save".

Save ?

Test Number: 1.0 Test Method - Description: HMA Mix Analysis - HMA Mix Analysis (KT-58, KT-15-III, KT-39, KT-57, KT-34)

- General
- Testers
- Reference Specifications
- Relests

#### Test Information

Test Status	Remarks
05 - Test Assigned	0
Priority	Planned Test Start Date
	<input type="text"/>
Default Test	Test Start Date
Yes	06/17/2021
Required Test	Estimated Completion Date
No	<input type="text"/>
Due Date	Actual Completion Date
<input type="text"/>	

#### Sample Information

Sample Type	Contract ID
VER - Verification	
Lab Unit	Source
District 4 Materials Lab - District 4 Materials Lab Unit	CC079300 - HECKERT CONST CO INC (PITTSBURG,KS)
Lab Reference Number	Sample Date

Test Result Value

Pass - Pass	Counts Toward Work
Fail - Fail	Yes
Pass - Pass	
PAAA - PAAA	

1. Select the appropriate Test Result from the drop down.

Type	Remark
------	--------

#### Additional Test Information

Retest Test	Reportable
No	Yes

3. Click "Home".

Sample Record Test Summary

There are unsaved changes.

Sample Record ID: 4G21018B Verification Data

1. Click the component action button.

Test Number: 1.0 Test Method - Description: HMA Mix Analysis - HMA Mix Analysis (KT-58, KT-15-III, KT-39, KT-57, KT-34)

- General
- Testers
- Reference Specifications
- Relests

Test Information

Test Status	Remarks
05 - Test Assigned	
Priority	Planned Test Start Date
	<input type="text"/>
Default Test	Test Start Date
Yes	06/17/2021
Required Test	Estimated Completion Date
No	<input type="text"/>
Due Date	Actual Completion Date
<input type="text"/>	

2. Click "Mark Test Complete".

Actions

There are no actions available.

Tasks

- Generate Test Results Comparison
- Mark Test Complete

Views

- Attachments
- HMA Superpave
- Issues
- Links

Sample Information

Sample Type	Contract ID
VER - Verification	
Lab Unit	Source
District 4 Materials Lab - District 4 Materials Lab Unit	CC079300 - HECKERT CONST CO INC (PITTSBURG.KS)
Lab Reference Number	Sample Date
Test Result Value	Sample Record Remarks
Pass - Pass	0
	Counts Toward MAA
	Yes

Sample Record Remarks

Type	Remark

Additional Test Information

Retest Test	Reportable
No	Yes

On this page: Materials Materials Worksheets Construction Person Overview Reference Data

### PROJECT KDOT role for Materials User (Copied from MATERIALUSER)

#### Materials ? Construction ?

- Acceptance Actions
- Action Relationships
- Daily Source Reports
- Find Sample
- Mix Design
- Product Group Sample Reviewer Assignment
- Sample Records

Click "Mix Design".

#### Construction ?

- Change Order
- Contract Administration
- Contract Claims
- Contract Permits
- Contract Progress
- Contract Specific Authorities
- Contract Time
- Contract Vendor Assets
- Contractor Evaluation
- Meetings
- Payment Estimate Accounting
- Payment Estimate Approval Decisions
- Payment Estimates

#### Materials Worksheets ?

- Enter Test Results
- Maintain Test Queue
- Receive Sample at Destination Lab
- Receive Sample at Lab Unit
- Review Samples
- Review Tests

#### Person Overview Save ?

Advanced
Qualifications
User
Reference Employee

0 marked for deletion | 0 changed

Enter search criteria above to see results 0 Show first 10

#### Reference Data ?

- Administrative Offices
- Alternate Test Workflow
- Code Tables

### Mix Design Overview

▼ Mix Design Overview Save ?

Q Type search criteria or press Enter Advanced

Either enter your Mix Design ID or click "Show first 10".

0 marked for deletion | 0 changed

Enter search criteria above to see results or Show first 10

### Mix Design Overview

▼ Mix Design Overview Save ?

Q bws Advanced Showing 2 of 2

0 marked for deletion | 0 changed

Mix Design ID	Material Code	Material Name	Description
5PDBWS-G	PCC000017	CONCRETE BRIDGE DECK WEARING SURFACE	5PDBWS-G-CROSS REFERENCE: BDWS-7
4G21018BWS	HMA_12.5A	Hot Mix Asphalt SR/SM-12.5A	69-19 KA-1554-03 SR-12.5A (PG 64-22)



Click on your Mix Design ID.

**NOTE: DO NOT proceed if you intend on editing the Mix Design. Approving the Mix Design will lock it.**

Overview

### Mix Design Summary

▼ Mix Design: 4G21018BWS **3. Click "Save".** Save ?

- General
- Component Materials
- Contracts
- Specifications
- SMFMI

**Mix Design ID\***  
4G21018BWS  
Up to 40 characters  
Mix Design type

**Description**  
HMA Surface and Base Mixture - HMA Surf & Base Mixes; SM  
69-19 KA-1554-03 SR-12.5A (PG 64-22)

**Material\***  
HMA\_12.5A  
Hot Mix Asphalt SR/SM-12.5A

**Source\***  
CC079300  
HECKERT CONST CO INC (PITTSBURG, KS)

**Remarks**  
0

**Approval Date**  
[Calendar icon]

**Approved By**  
[Search: Begin typing to search or press Enter]

**Effective Date**  
06/17/2021 [Calendar icon]

**Expiration Date**  
[Calendar icon]

**Status**  
ACTIVE - Active

**Active**  
Yes

**1. Enter the Date of Approval for the Mix Design.**

**2. Enter the name of the person approving the Mix Design.**

▼ Remarks

Type*	Remark*
[Dropdown]	[Text input]