

Quick Reference Guide

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Reviewed for Version: SiteManager 3.7

Mat'l Sampling/Testing - Bituminous Surf. Treatments

When you have a contract with pay item, **402 5205, "(PL) Armor Coat"** (sometimes referred to as; "Bituminous Surface Treatments", "Armor Coat" or "Chip Seal"), changes to the Contract Sampling and Testing Requirements may be required to properly document testing and acceptance of the material. The default S&T Requirements are based on an assumption of using a specific application rate of a certain aggregate gradation, along with a specific Bituminous Binder. The assumed materials and application rates used to compute default conversion factors are defined in the special instructions window of Contract Sampling and Testing Requirements. If your project is using a different gradation, application rate, or binder; changes to the Contract S&T requirements must be made after generating materials.

The following screen shots provide step by step instructions on revising contract S&T requirements. Materials have been generated. The example is based on revising requirements because Lightweight Cover Aggregates (LWCA) will be used.

1. Navigate to Materials Management > Contract Materials > Contract Sampling and Testing. Choose your contract.

Select Contract/Material Information

Selection

Contract
Project/Line Item
Material

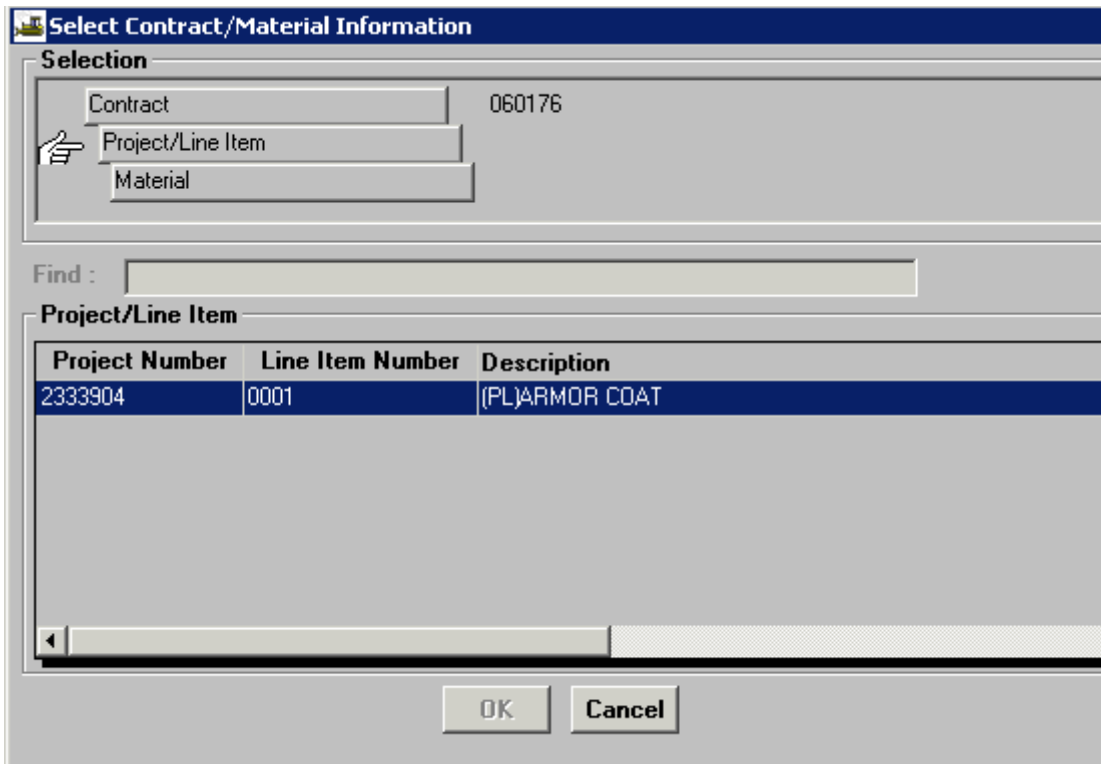
Find : 060176

Contract

Contract ID	Description
060176	ARMOR COAT
060177	ARMOR COAT
060178	ARMOR COAT
060179	ARMOR COAT
060198	RESURFACE
060203	RESURFACE

OK Cancel

2. Choose your Line Item:

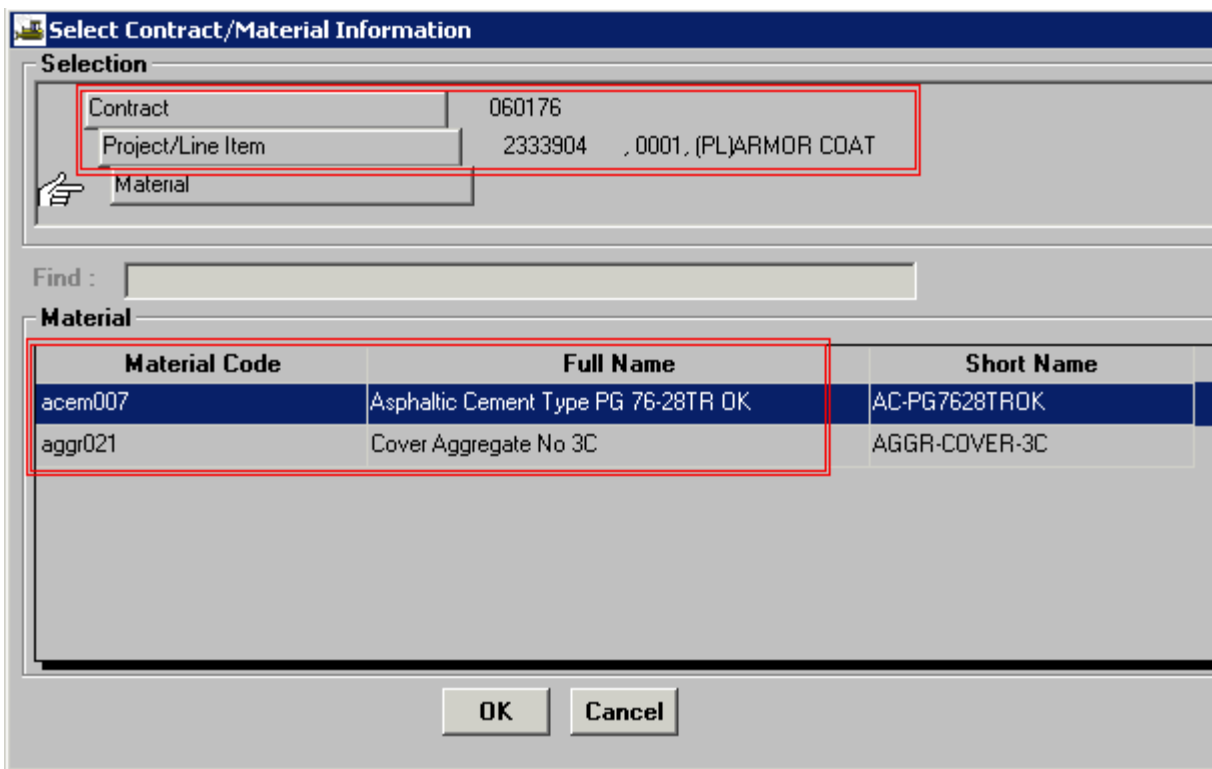


The dialog box is titled "Select Contract/Material Information". It has a "Selection" section with three tabs: "Contract", "Project/Line Item", and "Material". The "Contract" tab is selected, showing the value "060176". Below the tabs is a "Find:" text box. The "Project/Line Item" section contains a table with the following data:

Project Number	Line Item Number	Description
2333904	0001	(PL)ARMOR COAT

At the bottom of the dialog are "OK" and "Cancel" buttons.

3. You will note that two materials have been set up for this pay item. Notice the gradation is for 3C cover aggregate. Notice that the binder is a PG 76-28TR OK. If your project is using different materials, you will need to change the materials and probably the conversion factor for the binder and aggregate.



The dialog box is titled "Select Contract/Material Information". It has a "Selection" section with three tabs: "Contract", "Project/Line Item", and "Material". The "Contract" tab is selected, showing the value "060176". The "Project/Line Item" tab is also selected, showing the value "2333904 , 0001, (PL)ARMOR COAT". Below the tabs is a "Find:" text box. The "Material" section contains a table with the following data:


Material Code	Full Name	Short Name
acem007	Asphaltic Cement Type PG 76-28TR OK	AC-PG7628TROK
aggr021	Cover Aggregate No 3C	AGGR-COVER-3C

At the bottom of the dialog are "OK" and "Cancel" buttons.

4. First we need to change the asphalt binder to the actual material being used on the project. Start by selecting the binder material. Note the conversion factor and special instructions displayed in the Materials Tab Window.

Contract Sample and Testing Requirements			
Materials		Sample and Testing	
Contract	060176	Project	2333904
Bid Item Code	402 5205	Item Unit	SY
Desc. 1:	(PL)ARMOR COAT		
Desc. 2:			
Supp Desc1			
Supp Desc2			
Material Code:	acem007	Asphaltic Cement Type PG 76-28TR OK	
Conversion Factor:	.80000	<input type="checkbox"/> Approved Source Required	
Material Quantity:	72,640.000	Material Unit:	GALLON
Special Instruction:	Assumed application rate of 0.8 Gal per SY of PG 76-28TR. If different, change the conv factor and/or material code in Contract S&T.		

5. Let's take a look at the Sampling and Testing Tab Window and see what the S&T requirements are, especially the test method (test template) and the frequency of testing. Later we will need to refer to many of the settings in this window when we set up our new material.

Contract Sample and Testing Requirements

Materials

Sample and Testing

Contract

060176

Project

2333904

Bid Item Code

402 5205

Item Unit

SY

Material

acem007

Material Desc.

Asphaltic Cement Type PG 76-28TR OK

Desc. 1:

(PL)ARMOR COAT

Desc. 2:

Supp Desc1

Supp Desc2

Producer Supplier Code	Sample Type	Acceptance method	Test Method
	MAT Material	MAT Materials Division	C91003

Producer Supplier Code:

Sample Type:

MAT Material

Acceptance Method:

MAT Materials Division

Test Method:

C91003

PG Asphalt Binders - Project Sample

Sample Location:

N/A

Sample Units:

GALLON

Sample Responsibility:

Construction Residency

Test Responsibility:

Materials Division

Rate

1

Samples per.:

20,000.000

Sample Size:

1 quart

6. For our example of LWCA, the plans call for PMCRS-2S. To change the material code, we have to go back to the material tab and use the Services > Copy Records Menu. Select the material code for PMCRS-2S:

Select Material

Selection

Material:

Find :

Material

Material Code	Material Full Name	Material Category
asph019	Asphalt, Emulsified, Type CMS-2	Asphalt (Controlled)
asph020	Asphalt, Emulsified, Type CSS-1	Asphalt (Controlled)
asph021	Asphalt, Emulsified, Type PMCSS-1H	Asphalt (Controlled)
asph022	Asphalt, Emulsified, Type PMCRS-2S	Asphalt (Controlled)
asph023	Asphalt, Emulsified, Type PMCSS-2S	Asphalt (Controlled)
asph024	Asphalt, Emulsified, NovaBond	Asphalt (Controlled)

OK **Cancel**

7. Because we are copying the S&T requirements from a PG binder material to an Emulsion material, the system will warn us that the S&T info will be deleted on our new material. That is because the template used on PG binders (C91003) cannot be used to document an emulsion test. Click OK:

Contract Sample and Testing Requirements

Materials | Sample and Testing

Contract: 060176 | Project: 2333904 | Bid Item Code: 402 5205 | Item Unit: SY

Desc. 1: (PL)ARMOR COAT
Desc. 2:
Supp Desc1:
Supp Desc2:


Material Code: asph022 | Asphalt, Emulsified, Type PMCRS-2S

Conversion Factor: .80000 | ☐ Approved Source Required

Material Quantity: 72,640.000 | Material Unit: GALLON

Special Instruction: Assumed application rate of 0.8 Gal per SY of PG 76-28TR. If different, change the conv factor and/or material code in Contract S&T.

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 Invalid Sampling and Testing Record. Test method C91003 is not valid for material asph022. Therefore the affected Sample and Testing record with this test method will not be saved.

OK

8. Change the conversion factor for your new material if the application rate is different than the default value of 0.8.

9. If you navigate to the Sampling and Testing tab, you will see that everything is blank as indicated in the warning we had received. No big deal, we just need to fill in the S&T requirements just like what was defined for the original binder material, except, we need to choose the proper test method for emulsions. In the following screen shot, P/S is left blank, chose the proper sample type and acceptance method, then use the search lens on test method. Click in the test method column to sort and can see that the proper template to choose is C91006:

The screenshot shows the 'Sample and Testing' tab in a software interface. The 'Contract' is 060176, 'Project' is 2333904, 'Bid Item Code' is 402 5205, and 'Item Unit' is SY. The 'Material' is 'asph022' and the 'Material Desc.' is 'Asphalt, Emulsified, Type PMCRS-2S'. The 'Desc. 1' is '(PL)ARMOR COAT'. The 'Supp Desc1' and 'Supp Desc2' are blank.

Below the material details is a table with the following data:

Producer Supplier Code	Sample Type	Acceptance method	Test Method
	MAT Material	MAT Materials Division	

Below the table are input fields for 'Producer Supplier Code', 'Sample Type' (set to 'MAT Material'), 'Acceptance Method' (set to 'MAT Materials Division'), and 'Test Method'.

A 'Search Window' is open, showing a list of test methods. The 'Test Method' column is selected, and 'C91006' is highlighted. The 'Test Description' column shows the corresponding descriptions for each test method.

Test Method	Test Description
C91004	Emulsified Asphalt - Refinery Sample
C91005	Emulsified Asphalt - QM Sample
C91006	Emulsified Asphalt - Project Sample
C96006	IA Sampling Activity
z9100401	Emulsified Asphalt - Saybolt Furol Viscosity
z9100402	Emulsified Asphalt - Residue from Evaporation
z9100403	Emulsified Asphalt - Sieve Test
z9100404	Emulsified Asphalt - Oil Distillate

At the bottom of the search window are 'OK' and 'Cancel' buttons.

10. Fill in the remaining fields, Sample location, Rate, Frequency, Sample Units, Sample Responsibility, Test responsibility. Use the same values as was on the original binder material. When you are finished the Sampling and Testing Window for your new emulsion binder should look like the screen shot in step 5, except for the material code and test method. **SAVE.**

11. Navigate back to the Materials Tab. Click on the Open icon. You will now see three materials on your pay item. Choose the original binder material that is not going to be used on the project. Click OK to open. Delete.

Select Contract/Material Information

Selection

Contract: 060176
Project/Line Item: 2333904, 0001, (PL)ARMOR COAT
Material: 060176, 2333904, 0001, acem007

Find :

Material

Material Code	Full Name	Short Name
acem007	Asphaltic Cement Type PG 76-28TR OK	AC-PG7628TROK
aggr021	Cover Aggregate No 3C	AGGR-COVER-3C
asph022	Asphalt, Emulsified, Type PMCRS-2S	EMULSION-PMCRS2S

OK Cancel

12. Repeat steps 3 - 11 for your aggregate material. You will be able to omit steps 7, 9, 10 because the same test method is used for both aggregate materials.

13. The S&T requirements have been successfully changed. The changes to the contract S&T requirements will take effect and can be seen on the sampling checklist, once the Sampling Checklist Process has been ran.

Note on Last Modified Date:

This QRG is the 08/17/06 version. The Last modified date reflects a change to the design of the SSS database system.