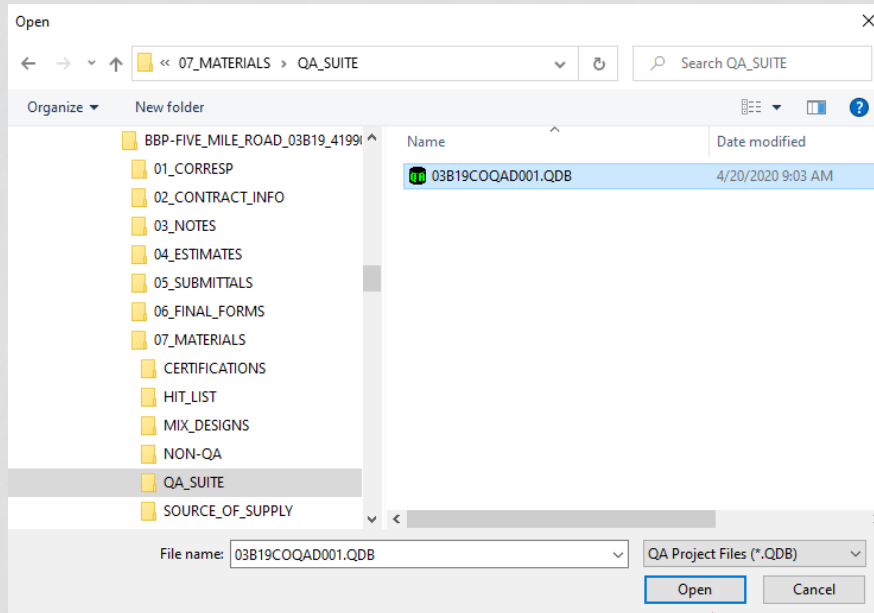


QA TRAINING MDT BILLINGS DISTRICT

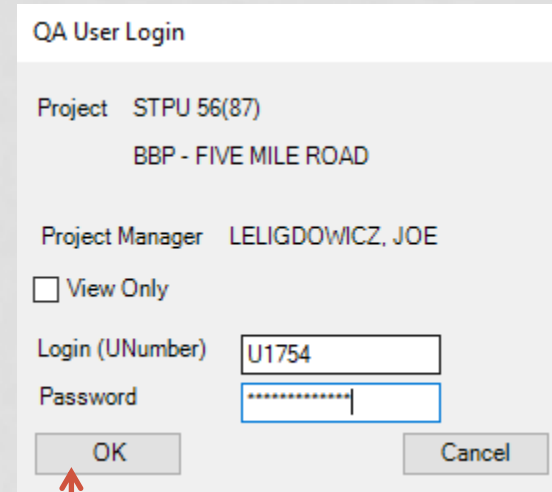
CONCRETE – CLASS GENERAL

PRESENTED BY: EMILY PETERSON, DISTRICT ENGINEERING OFFICER

QA CONTRACT FILE SETUP



- Navigate to the file you want to setup. It should be located under the projects Materials folder, QA Suite. Click Open



- Login using the same credentials as you use to log into the computer and click ok.

QA CONTRACT FILE SETUP

MDT Quality Assurance Suite - BBP - FIVE MILE ROAD - PETERSON, EMILY

File View Specifications Tools Window Help

Materials Summary

Existing Material Items

- CONCRETE-CLASS GENERAL (608010090)
- CONCRETE-CLASS GENERAL (551020030)
- COVER - TYPE 1 (409000010)
- CRUSHED BASE COURSE TYPE A GRADE 5 (301020340)
- CRUSHED BASE COURSE TYPE A GRADE 6 (301020340)
- CRUSHED BASE COURSE TYPE A GRADE 7 (301020340)
- CRUSHED TOP SURFACING TYPE A GRADE 2 (301020340)
- CONCRETE-CLASS GENERAL (609010200)
- CONCRETE-CLASS GENERAL (609010030)
- CONCRETE-CLASS GENERAL (609010121)
- CONCRETE-CLASS GENERAL (617000000)
- CONCRETE-CLASS GENERAL (609010160)
- PLANT MIX BIT SURF GR S - 3/4 IN (401020045)
- CONCRETE-CLASS PAVE (501010126)

Information for Selected Item

Spec Year: 2014

Bid Item Name: CONCRETE 3 IN

Material Type: CONCRETE-CLASS GENERAL

Effective Date: 8/10/2017

Comment: Concrete Class General Material Item Used for Concrete Specs Results Evaluation

Unit Cost: 60.00 Contract Quantity: 1562.9 Sq Yd

Base Price: 0.00 Bid Item Number: 608010090

Fit Lab Number: Material Code: 551.03.02.02

Last Modified By: Contract File Creation

Status: Currently in Specification Edit Mode

Number	Quantity	Unit Cost
0670	1562.9	60.00

Add Material Edit Selected Delete Selected

MDT Quality Assurance Suite - BBP - FIVE MILE ROAD - PETERSON, EMILY

File View Specifications Tools Window Help

Materials Summary

Existing Material Items

- CONCRETE-CLASS GENERAL (608010090)
- CONCRETE-CLASS GENERAL (551020030)
- COVER - TYPE 1 (409000010)
- CRUSHED BASE COURSE TYPE A GRADE 5 (301020340)
- CRUSHED BASE COURSE TYPE A GRADE 6 (301020340)
- CRUSHED BASE COURSE TYPE A GRADE 7 (301020340)
- CRUSHED TOP SURFACING TYPE A GRADE 2 (301020340)
- CONCRETE-CLASS GENERAL (609010200)
- CONCRETE-CLASS GENERAL (609010215)
- CONCRETE-CLASS GENERAL (609010030)
- CONCRETE-CLASS GENERAL (609010121)
- CONCRETE-CLASS GENERAL (617000000)
- CONCRETE-CLASS GENERAL (609010160)
- PLANT MIX BIT SURF GR S - 3/4 IN (401020045)
- CONCRETE-CLASS PAVE (501010126)

Information for Selected Item

Spec Year: 2014

Bid Item Name: CONCRETE 3 IN

Material Type: CONCRETE-CLASS GENERAL

Effective Date: 8/10/2017

Comment: Concrete Class General Material Item Used for Concrete Specs Results Evaluation

Unit Cost: 60.00 Contract Quantity: 1562.9 Sq Yd

Base Price: 0.00 Bid Item Number: 608010090

Fit Lab Number: Material Code: 551.03.02.02

Last Modified By: PETERSON, EMILY

Status: Currently in Specification Edit Mode

Number	Quantity	Unit Cost
0670	1562.9	60.00

Add Material Edit Selected Delete Selected

- To begin setting up the specific materials. Click on Specifications, then Materials Summary. You will see a list of all the possible materials for the project.

- Choose the Material you would like to set up. This example will show setting up Concrete – Class General – Concrete 3 In. Click Edit Selected.

QA CONTRACT FILE SETUP

Material Item Information

Name: CONCRETE-CLASS GENERAL

Effective Date: 8/10/2017

Comment: Concrete Class General Material Item Used for Concrete Specs Results Evaluation Per 8/10/2017 Special Provision Modifying Strength, Optimized Gradation and Overall Pay

Unit Cost: 60.00 Base Price: 0.00 Contract Quantity: 1562.9 Sq Yd

Item Number: 608010090 Pit Lab Number: Material Code: 551.03.02.02

Aggregate Selection Other Specifications

Select Aggregate (None if no Aggregate for this Material):
None - Aggregate Tests Imported As Gradation Results From AWPR

Material Item Information

Name: CONCRETE-CLASS GENERAL

Effective Date: 8/10/2017

Comment: Concrete Class General Material Item Used for Concrete Specs Results Evaluation Per 8/10/2017 Special Provision Modifying Strength, Optimized Gradation and Overall Pay

Unit Cost: 60.00 Base Price: 0.00 Contract Quantity: 1562.9 Sq Yd

Item Number: 608010090 Pit Lab Number: Material Code: 551.03.02.02

Aggregate Selection Other Specifications

Existing Specifications for This Material:

ConcSpecs_AirContent_PayFactor_CalcMethod
ConcSpecs_ConventionalGradation_PayFactor_Ca
ConcSpecs_OptimizedGradation_PayFactor_Ca
ConcSpecs_Overall_PayFactor_CalcMethod
ConcSpecs_Strength_PayFactor_CalcMethod
Concrete_Specs
Gradation_Results
MT101_CompressiveStrengthCylinders
MT102_AirContent

Info for Selected Specification

Test Method: ConcSpecs_AirContent_PayFactor_C.
Effective Date: 5/25/2017
Comment: Used to set Concrete Specs Air Content Pay Factor Calculation Method to use. Per Special Provision Dated 5/25/2017 - allow incentive in pay factor.

Choose Specifications

Details for Selected Specification

Procedure Only (no embedded specifications).

- Verify that the information is correct.

*Note: If you did the setup correctly everything should be accurate and you can just click edit complete.

- Choose Other Specification and verify that the information is correct.
- Then choose Edit Complete and then click ok.

QA CONTRACT FILE SETUP

MDT Quality Assurance Suite - BBP - FIVE MILE ROAD - PETERSON, EMILY

File View Specifications Tools Window Help

Materials Summary

Existing Material Items

- CONCRETE-CLASS GENERAL (609010090)
- CONCRETE-CLASS GENERAL (651020030)
- COVER - TYPE 1 (409000010)
- CRUSHED BASE COURSE TYPE A GRADE 5 (301020340)
- CRUSHED BASE COURSE TYPE A GRADE 6 (301020340)
- CRUSHED BASE COURSE TYPE A GRADE 7 (301020340)
- CRUSHED TOP SURFACING TYPE A GRADE 2 (301020340)
- CONCRETE-CLASS GENERAL (609010200)
- CONCRETE-CLASS GENERAL (609010215)
- CONCRETE-CLASS GENERAL (609010030)
- CONCRETE-CLASS GENERAL (609010121)
- CONCRETE-CLASS GENERAL (617000000)
- CONCRETE-CLASS GENERAL (609010160)
- PLANT MIX BIT SURF GR S - 3/4 IN (401020045)
- CONCRETE-CLASS PAVE (601010126)

Information for Selected Item

Spec Year: 2014

Bid Item Name: CONCRETE 3 IN

Material Type: CONCRETE-CLASS GENERAL

Effective Date: 8/10/2017

Comment: Concrete Class General Material Item Used for Concrete Specs Results Evaluation

Unit Cost: 60.00 Contract Quantity: 1562.9 Sq Yd

Base Price: 0.00 Bid Item Number: 608010090

Pit Lab Number: Material Code: 551.03.02.02

Last Modified By: PETERSON, EMILY

Status: Currently awaiting Specification Review - Specification Edit Mode marked as complete by PETERSON, EMILY

Number	Quantity	Unit Cost
0670	1562.9	60.00

Material Version Info for Selected Item

Material Version 1 of 1

Comment:

Unit Cost: 60.00 Last Modified By: Material Version Creation

Base Price: 0.00 Status: Currently in Specification Edit Mode

Quantity: 1562.9 Sq Yd

Line Item Number: 0670

Concrete Specs

Material Info for Selected Test

Concrete Specs

Last Modified By: Material Test Creation

Status: Currently in Specification Edit Mode

- Under Material Info for Selected Test Click Edit

Concrete Specs Material Info

Material Item Information

Material Item Name: CONCRETE-CLASS GENERAL

Unit Cost: 60.00 Base Price: 0.00 Edit Complete

Line Item Number: 0670

Specification Items

Default Gradation Type: Optimized

Default Cylinder Test Days: Optimized

OK

Cancel

Print

Print Preview

- Verify the information is correct and choose the correct Gradation Type from the approved mix design. For this example, we are choosing Optimized. The click Edit Complete and then OK.

QA CONTRACT FILE SETUP

MDT Quality Assurance Suite - BBP - FIVE MILE ROAD - PETERSON, EMILY

File View Specifications Tools Window Help

Materials Summary

Existing Material Items

- CONCRETE-CLASS GENERAL (609010090)
- CONCRETE-CLASS GENERAL (551020340)
- COVER - TYPE 1 (409000010)
- CRUSHED BASE COURSE TYPE A GRADE 5 (301020340)
- CRUSHED BASE COURSE TYPE A GRADE 6 (301020340)
- CRUSHED BASE COURSE TYPE A GRADE 7 (301020340)
- CRUSHED TOP SURFACING TYPE A GRADE 2 (301020340)
- CONCRETE-CLASS GENERAL (609010200)
- CONCRETE-CLASS GENERAL (609010215)
- CONCRETE-CLASS GENERAL (609010030)
- CONCRETE-CLASS GENERAL (609010121)
- CONCRETE-CLASS GENERAL (617000000)
- CONCRETE-CLASS GENERAL (609010160)
- PLANT MIX BIT SURF GR S - 3/4 IN (401020045)
- CONCRETE-CLASS PAVE (501010126)

Information for Selected Item

Spec Year: 2014

Bid Item Name: CONCRETE 3 IN

Material Type: CONCRETE-CLASS GENERAL

Effective Date: 8/10/2017

Comment: Concrete Class General Material Item Used for Concrete Specs Results Evaluation

Unit Cost: 60.00 Contract Quantity: 1562.9 Sq Yd

Base Price: 0.00 Bid Item Number: 608010090

Pit Lab Number: Material Code: 551.03.02.02

Last Modified By: PETERSON, EMILY

Status: Currently awaiting Specification Review - Specification Edit Mode marked as complete by PETERSON, EMILY

Line Item Information:

Number	Quantity	Unit Cost
0670	1562.9	60.00

Material Version Info for Selected Item

Material Version 1 of 1

Comment:

Unit Cost: 60.00 Last Modified By: Material Version Creation

Base Price: 0.00 Status: Currently in Specification Edit Mode

Quantity: 1562.9 Sq Yd

Line Item Number: 0670

Concrete Specs

Material Info for Selected Test

Concrete Specs

Edit

Last Modified By: PETERSON, EMILY

Status: Currently in Specification Review Mode - Specification Edit Mode marked as complete by PETERSON, EMILY

Edit Complete

MDT Quality Assurance Suite - BBP - FIVE MILE ROAD - PETERSON, EMILY

File View Specifications Tools Window Help

Materials Summary

Existing Material Items

- CONCRETE-CLASS GENERAL (609010090)
- COVER - TYPE 1 (409000010)
- CRUSHED BASE COURSE TYPE A GRADE 5 (301020340)
- CRUSHED BASE COURSE TYPE A GRADE 6 (301020340)
- CRUSHED BASE COURSE TYPE A GRADE 7 (301020340)
- CRUSHED TOP SURFACING TYPE A GRADE 2 (301020340)
- CONCRETE-CLASS GENERAL (609010200)
- CONCRETE-CLASS GENERAL (609010215)
- CONCRETE-CLASS GENERAL (609010030)
- CONCRETE-CLASS GENERAL (609010121)
- CONCRETE-CLASS GENERAL (617000000)
- CONCRETE-CLASS GENERAL (609010160)
- PLANT MIX BIT SURF GR S - 3/4 IN (401020045)
- CONCRETE-CLASS PAVE (501010126)

Information for Selected Item

Spec Year: 2014

Bid Item Name: CONCRETE 3 IN

Material Type: CONCRETE-CLASS GENERAL

Effective Date: 8/10/2017

Comment: Concrete Class General Material Item Used for Concrete Specs Results Evaluation

Unit Cost: 60.00 Contract Quantity: 1562.9 Sq Yd

Base Price: 0.00 Bid Item Number: 608010090

Pit Lab Number: Material Code: 551.03.02.02

Last Modified By: PETERSON, EMILY

Status: Currently awaiting Specification Review - Specification Edit Mode marked as complete by PETERSON, EMILY

Line Item Information:

Number	Quantity	Unit Cost
0670	1562.9	60.00

Material Version Info for Selected Item

Material Version 1 of 1

Comment:

Unit Cost: 60.00 Last Modified By: Material Version Creation

Base Price: 0.00 Status: Currently in Specification Review Mode - Specification Edit Mode marked as complete by PETERSON, EMILY

Quantity: 1562.9 Sq Yd

Line Item Number: 0670

Concrete Specs

Material Info for Selected Test

Concrete Specs

Edit

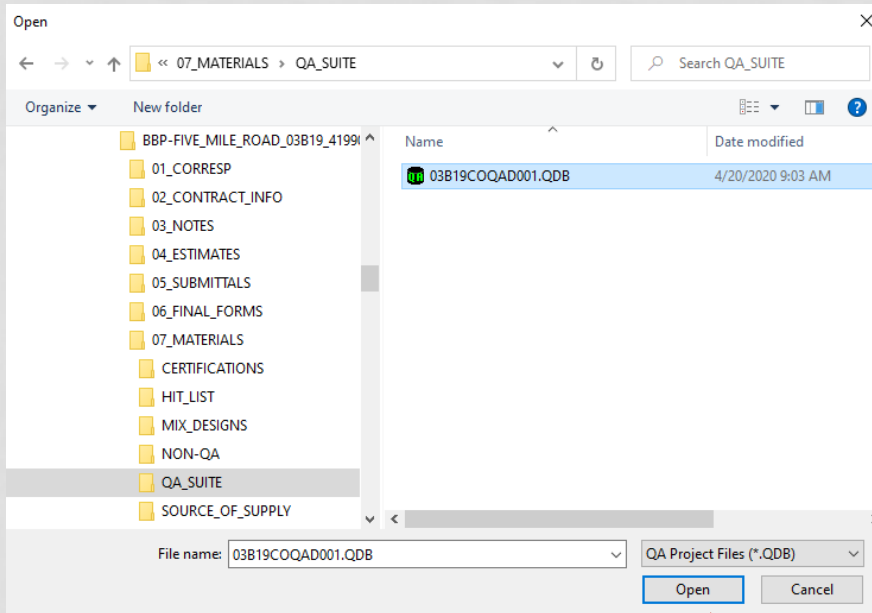
Last Modified By: PETERSON, EMILY

Status: Currently in Specification Review Mode - Specification Edit Mode marked as complete by PETERSON, EMILY

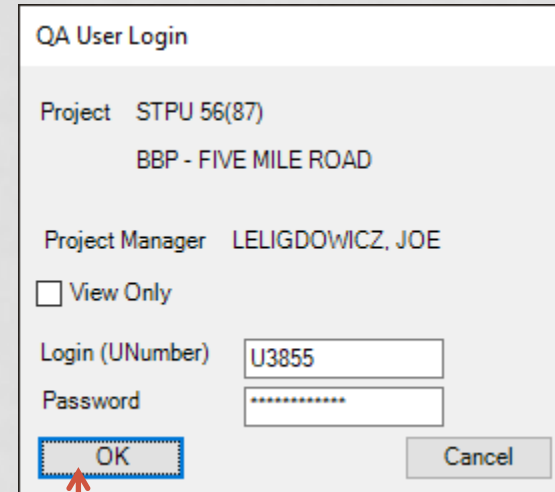
- Verify that everything is correct under the Material Version Info for Selected Item and click Edit Complete.

- This material is now awaiting specification Review (Locking).
- QA has a two-person setup process which means a different person must log in and review the specification setup and lock the material, so it is ready for data entry.
- Click save and exit QA.

QA CONTRACT FILE LOCK



- Navigate to the file you want to lock. It should be located under the projects Materials folder, QA Suite. Click Open



- Login using the same credentials as you use to log into the computer and click ok. Remember to Lock QA it must be a different person than who set it up.

QA CONTRACT FILE LOCK

MDT Quality Assurance Suite - BBP - FIVE MILE ROAD - PETERSON, EMILY

File View Specifications Tools Windows Help

Materials Summary

Existing Material Items

- CONCRETE-CLASS GENERAL (608010090)
- CONCRETE-CLASS GENERAL (551020030)
- COVER - TYPE 1 (409000010)
- CRUSHED BASE COURSE TYPE A GRADE 5 (301020340)
- CRUSHED BASE COURSE TYPE A GRADE 6 (301020340)
- CRUSHED BASE COURSE TYPE A GRADE 7 (301020340)
- CRUSHED TOP SURFACING TYPE A GRADE 2 (301020340)
- CONCRETE-CLASS GENERAL (609010200)
- CONCRETE-CLASS GENERAL (609010215)
- CONCRETE-CLASS GENERAL (609010030)
- CONCRETE-CLASS GENERAL (609010121)
- CONCRETE-CLASS GENERAL (617000000)
- CONCRETE-CLASS GENERAL (609010160)
- PLANT MIX BIT SURF GR S - 3/4 IN (401020045)
- CONCRETE-CLASS PAVE (501010126)

Information for Selected Item

Spec Year: 2014

Bid Item Name: CONCRETE 3 IN

Material Type: CONCRETE-CLASS GENERAL

Effective Date: 8/10/2017

Comment: Concrete Class General Material Item Used for Concrete Specs Results Evaluation

Unit Cost: 60.00 Contract Quantity: 1562.9 Sq Yd

Base Price: 0.00 Bid Item Number: 608010090

Pit Lab Number: Material Code: 551.03.02.02

Last Modified By: PETERSON, EMILY

Status: Currently awaiting Specification Review - Specification Edit Mode marked as complete by PETERSON, EMILY

Material Version Info for Selected Item

Material Version 1 of 1

Comment:

Unit Cost: 60.00 Last Modified By: Material Version Creation

Base Price: 0.00 Status: Currently in Specification Review Mode - Specification Edit Mode marked as complete by PETERSON, EMILY

Quantity: 1562.9 Sq Yd

Line Item Number: 0670

Concrete Specs

Edit

Last Modified By: PETERSON, EMILY

Status: Currently in Specification Review Mode - Specification Edit Mode marked as complete by PETERSON, EMILY

Edit Material Item Definition

Material Item Information

Name: CONCRETE-CLASS GENERAL

Effective Date: 8/10/2017

Comment: Concrete Class General Material Item Used for Concrete Specs Results Evaluation Per 8/10/2017 Special Provision Modifying Strength, Optimized Gradation and Overall Pay

Unit Cost: 60.00 Base Price: 0.00 Contract Quantity: 1562.9 Sq Yd

Item Number: 608010090 Pit Lab Number: Material Code: 551.03.02.02

Aggregate Selection Other Specifications

Select Aggregate (None if no Aggregate for this Material):

None - Aggregate Tests Imported As Gradation Results From A/WPR

Lock OK Cancel Print Print Preview

- To begin locking the specific materials. Click on Specifications, then Materials Summary. You will see a list of all the possible materials for the project. Choose the material that is ready for locking. Then Click Edit Selected.

- After reviewing that all information is correct, click lock and then click ok.
- Then click save.

QA CONTRACT FILE LOCK

Materials Summary

Existing Material Items

- CONCRETE-CLASS GENERAL (608010090)
- CONCRETE-CLASS GENERAL (651020030)
- COVER - TYPE 1 (469900010)
- CRUSHED BASE COURSE TYPE A GRADE 5 (301020340)
- CRUSHED BASE COURSE TYPE A GRADE 6 (301020340)
- CRUSHED BASE COURSE TYPE A GRADE 7 (301020340)
- CRUSHED TOP SURFACING TYPE A GRADE 2 (301020340)
- CONCRETE-CLASS GENERAL (609010200)
- CONCRETE-CLASS GENERAL (609010215)
- CONCRETE-CLASS GENERAL (609010300)
- CONCRETE-CLASS GENERAL (609010121)
- CONCRETE-CLASS GENERAL (617000000)
- CONCRETE-CLASS GENERAL (609010160)
- PLANT MIX BIT SURF GR S - 3/4 IN (401020045)
- CONCRETE-CLASS PAVE (501010126)

Information for Selected Item

Spec Year: 2014

Bid Item Name: CONCRETE 3 IN

Material Type: CONCRETE-CLASS GENERAL

Effective Date: 8/10/2017

Unit Cost: 60.00

Base Price: 0.00

Contract Quantity: 1562.9 Sq Yd

Material Code: 551.03.02.02

Line Item Information:

Number	Quantity	Unit Cost
0670	1562.9	60.00

Material Version Info for Selected Item

Material Version: 1 of 1

Unit Cost: 60.00

Base Price: 0.00

Quantity: 1562.9 Sq Yd

Line Item Number: 0670

Material Info for Selected Test

Concrete Specs

Preview

Concrete Specs Material Info

Material Item Information

Material Item Name: CONCRETE-CLASS GENERAL

Unit Cost: 60.00

Base Price: 0.00

Line Item Number: 0670

Lock

Specification Items

Default Gradation Type: Optimized

Default Cylinder Test Days: 28

OK

Cancel

Print

Print Preview

- Under Material Info for Selected Test Click Review

- After reviewing that all information is correct, click lock and then click ok.
- Then click save.

QA CONTRACT FILE LOCK

The screenshot shows the 'Materials Summary' window in the QA Suite. The 'Existing Material Items' list on the left includes 'CONCRETE CLASS GENERAL (608010090)'. The 'Information for Selected Item' section on the right shows details for 'CONCRETE 3 IN'. A red arrow points to the 'Lock' button in the 'Material Version Info for Selected Item' section.

- Verify that everything is correct under the Material Version Info for Selected Item and click Lock
- Then Click Save.

The screenshot shows the 'Materials Summary' window with 'CONCRETE CLASS GENERAL (608010090)' selected. The 'Existing Material Items' list includes various concrete and crushed base course items. The 'Information for Selected Item' section shows details for 'CONCRETE 3 IN', including unit cost, base price, and material code. The 'Material Version Info for Selected Item' section shows the material is locked by 'WRIGHT, CHRISTIAN'.

- After the above step, you can see that the material is now located in the dropdown list on the left of the screen. This material is now ready for data entry. For Concrete Items, the data entry will be done in AASHTOWare and then transferred to the QA Suite.

QA CONTRACT FILE RESULTS

MDT Quality Assurance Suite - BBP - FIVE MILE ROAD - PETERSON, EMILY

File View Specifications Tests Tools Window Help

Tests

- CONCRETE-CLASS GENERAL (608010090)
- Concrete Specs
- CONCRETE-CLASS GENERAL (551020030)
- CONCRETE-CLASS GENERAL (609010200)
- CONCRETE-CLASS GENERAL (609010215)
- CONCRETE-CLASS GENERAL (609010030)
- CONCRETE-CLASS GENERAL (609010121)
- CONCRETE-CLASS GENERAL (617000000)
- CONCRETE-CLASS GENERAL (609010160)

Materials Summary Concrete Specs

Bid Item: CONCRETE 3 IN
Material Type: CONCRETE-CLASS GENERAL
Bid Item No.: 608010090
Line Item No.: 0670
Material Version: 1

Lot Number: [Dropdown] Gradation Type: Optimized [Dropdown] View Comments Show Pay Adjustment Results For This Lot

Quantity Represented [Input] Sq Yd Cylinder Test Days: 28 [Dropdown] View Material Info Update All Data From AASHTOWARE Project

Accum Quantity [Input] Sq Yd Last Updated from AWPR: [Dropdown]

Strength Air Content Optimized Gradation Results

AWPR Sample Id: [Input]
AWPR Sample Test No.: [Input] Lot Strength: Average [Input] Min [Input] Max [Input] psi
AWPR Sample Date: [Input]
AWPR Status Date: [Input]
AWPR Status: [Input]
AWPR Intended Use: [Input]
AWPR Material Code: [Input]
AWPR Producer Supplier ID: [Input]
AWPR Producer Supplier Name: [Input]

Comments [Input] Last Modified By [Input]

- After the test results are entered in AASHTOWare you will need to log into QA and click Update All Data From AASHTOWARE Project.
- The Strength and Air Content info will be brought in from AASHTOWare. The Optional Gradation Results will need to be selected each time with the correct gradation sample for the LOT.

QA CONTRACT FILE RESULTS

The screenshot displays the MDT Quality Assurance Suite interface. The main window is titled "Materials Summary Concrete Specs" and shows details for "CONCRETE 3 IN". The "Update All Data From AASHTOWARE Project" button is highlighted with a blue box. An error dialog box is open in the foreground, titled "Updating Data From AASHTOWARE Project", with the message: "No Strength Data Entered in AASHTOWARE Project For: Bid Item CONCRETE 3 IN (608010090) Line Item Number 0670 (Material Version 1). The Strength Data for Lots Must be entered in AASHTOWARE Project before any Test Results for the Lots can be imported into the QA Suite." An orange arrow points from the text on the right to the error dialog box.

- If you receive this error message after trying to update the data, the test results may not be entered yet or something is wrong with the sample record. For example, the sample record may not be tied to the contract.