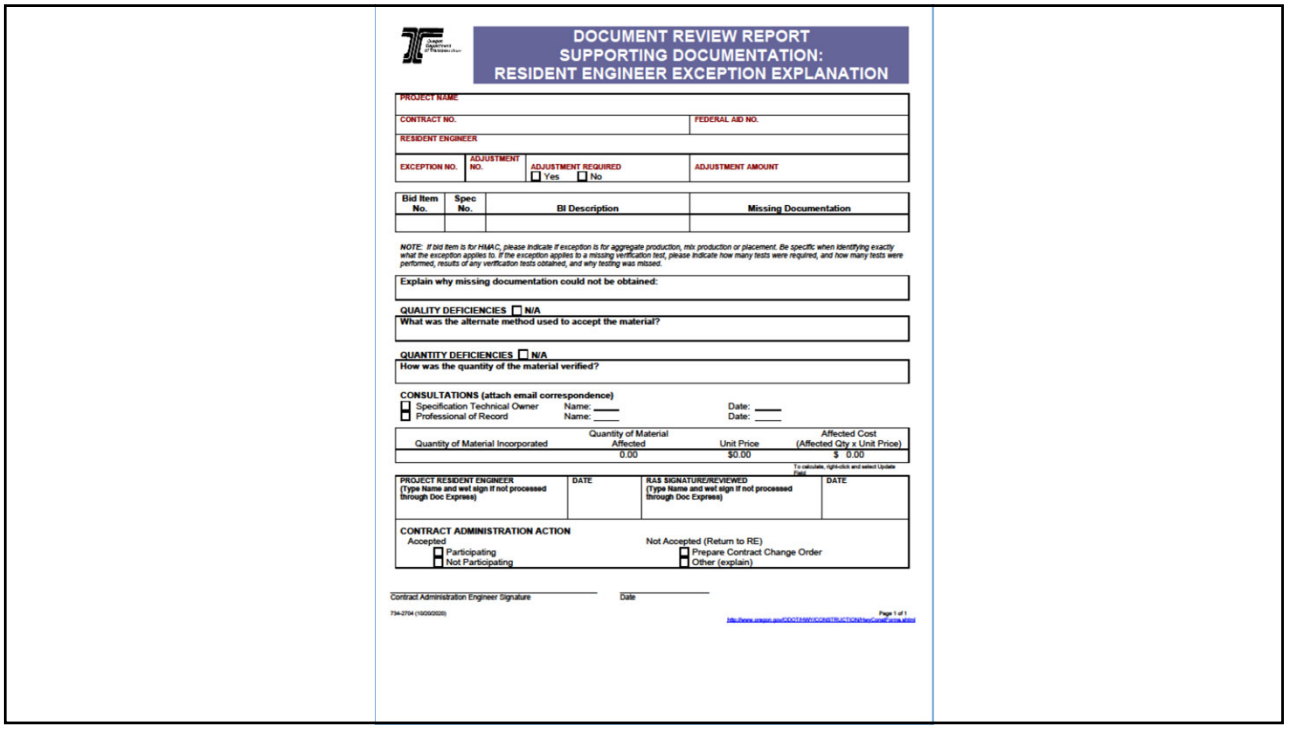
2023 QCCS Workshop

RE Exception
&
Adjustments

1



DOCUMENT REVIEW REPORT
SUPPORTING DOCUMENTATION:
RESIDENT ENGINEER EXCEPTION EXPLANATION

PROJECT NAME

CONTRACT NO. | FEDERAL AID NO.

RESIDENT ENGINEER

EXCEPTION NO. | ADJUSTMENT NO. | ADJUSTMENT REQUIRED ☐ Yes ☐ No | ADJUSTMENT AMOUNT

Bid Item No.	Spec No.	BI Description	Missing Documentation

NOTE: If bid item is for HMAC, please indicate if exception is for aggregate production, mix production or placement. Be specific when identifying exactly what the exception applies to. If the exception applies to a missing verification test, please indicate how many tests were required, and how many tests were performed, results of any verification tests obtained, and why testing was missed.

Explain why missing documentation could not be obtained:

QUALITY DEFICIENCIES ☐ **N/A**
What was the alternate method used to accept the material?

QUANTITY DEFICIENCIES ☐ **N/A**
How was the quantity of the material verified?

CONSULTATIONS (attach email correspondence)
☐ Specification Technical Owner Name: ____ Date: ____
☐ Professional of Record Name: ____ Date: ____

Quantity of Material Incorporated	Quantity of Material Affected	Unit Price	Affected Cost (Affected Qty x Unit Price)
	0.00	$0.00	$ 0.00

To calculate, right-click and select Update Field

PROJECT RESIDENT ENGINEER (Type Name and wet sign if not processed through Doc Express)	DATE	RAS SIGNATURE/REVIEWED (Type Name and wet sign if not processed through Doc Express)	DATE

CONTRACT ADMINISTRATION ACTION
Accepted
☐ Participating
☐ Not Participating
Not Accepted (Return to RE)
☐ Prepare Contract Change Order
☐ Other (explain)

Contract Administration Engineer Signature ____ Date ____

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2

RE Exception

What is an exception and when do you use it?

- A *RE Exception* is a quality or quantity item that is being accepted by the RE in a method that differs from the normal procedures. Exceptions are deficiencies to the quality/quantity documentation that cannot be "resolved" in any other manner.
- If the payment is made due to an alternate method of measurement instead of what is specified in the Contract.

3

RE Exception

- If the exception applies to a missing quality compliance certification or missing field tests, then an explanation of how the materials are being accepted needs to be included. This information is critical in making the determination of participation or nonparticipation on projects with federal funding.

4

RE Exception

- If there are any quality or quantity issues outstanding for which the RE is requesting an exception, the Documentation Review Report Supporting Documentation: RE Exception Explanation, form 734-2704 will need to be completed. The RE must also obtain, and attach to this form, written concurrence from the applicable Technical Resource (TR) and Professional of Record (POR). In addition, this form needs to be signed by both the RE and RAS, and submitted with the final Project documentation.

5

RE Exception

- This form will be signed off by the Contract Administration Engineer (CAE) at the time of final documentation acceptance, and designated as “Accepted – Participating (federal funds)”, “Accepted – Non-Participating”, “Not Accepted (Return to RE) - Prepare CCO”, or “Not Accepted (Return to RE) - Other”. Refer to Chapter 37 – Submittal of Final Project Documentation.

- Mark as “CCO Required”. This will require the RE to handle the Exception as a CCO, at which point it would be removed from the DRR.

6

RE Exception

Do I need an Exception or a CCO

- A CCO or Exception is NOT required when:
  - There are no changes to the Contract Documents.
  - The Standard price adjustments (6000 series) are being applied
    (Concal, Stat Spec, Adjustment)

7

RE Exception

- **<u>A CCO is required when:</u>**

  There are changes to the requirements, specifications or design.

  There are changes in testing requirements.

  Money is due to ODOT

  Money is due to the contractor.

  When there is a zero net cost and a change has been made.

  Accepting a reduced quality product.

  Allowing Non-Specification material to remain in place.

8

RE Exception

- **An Exception Letter/Form is required when**:

  Acceptance of the material is done by an alternate means

Examples are:

Missisng QC Tests, Missing Scale Certs, Missing Check Weights, Missing Tare Weights, Missing Weigh Backs for payment, Missing Verification Tests.

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RE Exception

Acceptability of the documents, documentation, or Materials that may need an alternate acceptance method such as an exception or Contract Change Order [Refer to Exception vs. CCO guidance document].

There are limitations as to what is considered an exception. [Refer to Exception vs. CCO guidance document.]

The RAS will list the following on the final DRR:

Any quantity or quality items that pertain to a RE exception.

10

RE Exception

The RE must also attempt to obtain the concurrence to use the Exception method of acceptance from the Technical Resource (TR) and Professional of Record (POR). If the TR or POR does not respond, attach the email request that was not responded to.

The Technical Resource List includes both the general specifications (00110 – 00199) and technical specifications (00205 – 03020).

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TECHNICAL RESOURCE LIST

UPDATED 09-28-2022		TECHNICAL RESOURCES					STAKEHOLDER (Include in correspondence with Technical Resource)		Questions? E-mail: ODOT_SPECIFICATIONS	Review of Industry Concerns		
Section	Section Title	Primary Responsible Unit	Resource Position	Resource Name	Phone Number	Measurement and Payment Resource	Stakeholder Position	Stakeholder Name	Remarks	Concern Resolution if both agree Construction and Materials Engineer	Discipline Section Manager	Concern Resolution Chief Engineer
For specification sections not listed, contact ODOT Specifications												
00110	Organization, Conventions, Abbreviations, and Definitions	Project Letting	Specifications Engineer *	Dan Anderson	(503) 986-3777	N/A			* Specifications Engineer before Award. Contract Administration Engineer after Award.	Chris Bucher	Mike Kimlinger	Mike Kimlinger
00120	Bidding Requirements and Procedures	Project Letting	Specifications Engineer *	Dan Anderson	(503) 986-3777	N/A			* Specifications Engineer before Award. Contract Administration Engineer after Award.	Chris Bucher	Mike Kimlinger	Mike Kimlinger
00130	Award and Execution of Contract	Project Letting	Specifications Engineer *	Dan Anderson	(503) 986-3777	N/A			* Specifications Engineer before Award. Contract Administration Engineer after Award.	Chris Bucher	Mike Kimlinger	Mike Kimlinger
00140	Scope of Work	Project Letting	Specifications Engineer *	Dan Anderson	(503) 986-3777	N/A			* Specifications Engineer before Award. Contract Administration Engineer after Award.	Chris Bucher	Mike Kimlinger	Mike Kimlinger
00150	Control of Work	Project Letting	Specifications Engineer *	Dan Anderson	(503) 986-3777	N/A			* Specifications Engineer before Award. Contract Administration Engineer after Award.	Chris Bucher	Mike Kimlinger	Mike Kimlinger
00160	Source of Materials	Project Letting	Specifications Engineer *	Dan Anderson	(503) 986-3777	N/A			* Specifications Engineer before Award. Contract Administration Engineer after Award.	Chris Bucher	Mike Kimlinger	Mike Kimlinger
00165	Quality of Materials	Project Letting	Specifications Engineer *	Dan Anderson	(503) 986-3777	N/A	Quality Assurance Engineer	Larry Ilg	* Specifications Engineer before Award. Construction QA Engineer after Award.	Chris Bucher	Mike Kimlinger	Mike Kimlinger
00170	Legal Relations and Responsibilities	Project Letting	Specifications Engineer *	Dan Anderson	(503) 986-3777	N/A			* Specifications Engineer before Award. Contract Administration Engineer after Award.	Chris Bucher	Mike Kimlinger	Mike Kimlinger
00180	Prosecution and Progress	Project Letting	Specifications Engineer *	Dan Anderson	(503) 986-3777	N/A			* Specifications Engineer before Award. Contract Administration Engineer after Award.	Chris Bucher	Mike Kimlinger	Mike Kimlinger
00190	Measurement of Pay Quantities	Project Letting	Specifications Engineer *	Dan Anderson	(503) 986-3777	N/A	Contract Administration Engineer	Measurement Payment	* Specifications Engineer before Award. Contract Administration Engineer after Award.	Chris Bucher	Mike Kimlinger	Mike Kimlinger
00195	Payment	Project Letting	Specifications Engineer *	Dan Anderson	(503) 986-3777	N/A	Contract Administration Engineer	Measurement Payment	* Specifications Engineer before Award. Contract Administration Engineer after Award.	Chris Bucher	Mike Kimlinger	Mike Kimlinger
00196	Payment for Extra Work	Project Letting	Specifications Engineer *	Dan Anderson	(503) 986-3777	N/A			* Specifications Engineer before Award. Contract Administration Engineer after Award.	Chris Bucher	Mike Kimlinger	Mike Kimlinger
00197	Payment for Force Account Work	Project Letting	Specifications Engineer *	Dan Anderson	(503) 986-3777	N/A			* Specifications Engineer before Award. Contract Administration Engineer after Award.	Chris Bucher	Mike Kimlinger	Mike Kimlinger
00199	Disagreements, Protests and Claims	Project Letting	Specifications Engineer *	Dan Anderson	(503) 986-3777	N/A			* Specifications Engineer before Award. Contract Administration Engineer after Award.	Chris Bucher	Mike Kimlinger	Mike Kimlinger
00205	Field Laboratory, Weighhouse, Etc.	Quality Assurance	Quality Assurance Engineer	Larry Ilg	(503) 986-3072	Measurement Payment				Chris Bucher	Mike Kimlinger	Mike Kimlinger
00210	Mobilization	Contract Administration	Contract Administration Engineer	Measurement Payment	(503) 986-3012	N/A				Chris Bucher	Mike Kimlinger	Mike Kimlinger
00220	Accommodations for Public Traffic	Traffic Standards	State Traffic Work Zone Engineer	Justin King	(503) 986-3584	Measurement Payment				Chris Bucher	Mike Kimlinger	Mike Kimlinger
00221	Common Provisions for Work Zone Traffic Control	Traffic Standards	State Traffic Work Zone Engineer	Justin King	(503) 986-3584	Measurement Payment				Chris Bucher	Mike Kimlinger	Mike Kimlinger
00222	Temporary Traffic Control Signs	Traffic Standards	State Traffic Work Zone Engineer	Justin King	(503) 986-3584	Measurement Payment				Chris Bucher	Mike Kimlinger	Mike Kimlinger
00223	Work Zone Traffic Control Labor and Vehicles	Traffic Standards	State Traffic Work Zone Engineer	Justin King	(503) 986-3584	Measurement Payment				Chris Bucher	Mike Kimlinger	Mike Kimlinger
00224	Temporary Traffic Channelizing Devices	Traffic Standards	State Traffic Work Zone Engineer	Justin King	(503) 986-3584	Measurement Payment				Chris Bucher	Mike Kimlinger	Mike Kimlinger
00225	Temporary Pavement Marking	Traffic Standards	State Traffic Work Zone Engineer	Justin King	(503) 986-3584	Measurement Payment				Chris Bucher	Mike Kimlinger	Mike Kimlinger
00226	Temporary Roadside Barriers and Impact Attenuators	Traffic Standards	State Traffic Work Zone Engineer	Justin King	(503) 986-3584	Measurement Payment				Chris Bucher	Mike Kimlinger	Mike Kimlinger
00227	Temporary Traffic Signals and Illumination	Traffic Standards	State Traffic Work Zone Engineer	Justin King	(503) 986-3584	Measurement Payment				Chris Bucher	Mike Kimlinger	Mike Kimlinger
00228	Temporary Pedestrian and Bicyclist Routing	Traffic Standards	State Traffic Work Zone Engineer	Justin King	(503) 986-3584	Measurement Payment				Chris Bucher	Mike Kimlinger	Mike Kimlinger
00229	Smart Work Zone Systems	Traffic Standards	State Traffic Work Zone Engineer	Justin King	(503) 986-3584	Measurement Payment				Chris Bucher	Mike Kimlinger	Mike Kimlinger
00230	Temporary Roadbed and Surfacing	Geotechnical Engineering	State Geotechnical Engineer	Guiran Mohney	(503) 986-3490	Measurement Payment	State Traffic Work Zone Engineer	Justin King	Stand-Alone Special Provision	Chris Bucher	John Roesch	Mike Kimlinger
						Measurement Payment	Pavement Design Engineer	Paul Burch				Mike Kimlinger
						Measurement Payment	Engineering Geology Program Lead	Guiran Mohney				Mike Kimlinger
00231	Temporary Access Road	Geotechnical Engineering	State Geotechnical Engineer	Guiran Mohney	(503) 986-3490	Measurement Payment			Stand-Alone Special Provision	Chris Bucher	John Roesch	Mike Kimlinger
00235	Agency Provided Material Sources	Geotechnical Engineering and Engineering Geology	Material Source Program Leader	Curtis Ehlert	(541)388-6093	Measurement Payment	Engineering Geology Program Lead	Guiran Mohney	Stand-Alone Special Provision	Chris Bucher	John Roesch	Mike Kimlinger
00236	Agency Provided Disposal Sites	Geotechnical Engineering and Engineering Geology	Material Source Program Leader	Curtis Ehlert	(541)388-6093	Measurement Payment	Engineering Geology Program Lead	Guiran Mohney	Stand-Alone Special Provision	Chris Bucher	John Roesch	Mike Kimlinger
00237	Agency Provided Staging Areas	Geotechnical Engineering and Engineering Geology	Material Source Program Leader	Curtis Ehlert	(541)388-6093	Measurement Payment	Engineering Geology Program Lead	Guiran Mohney	Stand-Alone Special Provision	Chris Bucher	John Roesch	Mike Kimlinger
00240	Temporary Drainage Facilities	Hydraulic Engineering	Senior Stormwater Hydraulic Engineer	Lu Baepler	(503) 986-3365	Measurement Payment				Chris Bucher	Paul Wirth	Mike Kimlinger
00245	Temporary Water Management	Hydraulic Engineering	Senior Culvert Maintenance Hydraulic Engineer	Wade Hoksbe	(503) 986-4046	Measurement Payment	Aquatics Biology Program Leader	Tom Leynes	Stand-Alone Special Provision	Chris Bucher	Paul Wirth	Mike Kimlinger
00250	Diversion Bridges (Contractor Provided)	Bridge Engineering	Steel Standards Engineer	Alok Lim	(971) 283-5518	Measurement Payment			Stand-Alone Special Provision	Chris Bucher	Ray Bottenberg	Mike Kimlinger
00251	Agency Provided Temporary Bridges	Bridge Engineering	Steel Standards Engineer	Alok Lim	(971) 283-5518	Measurement Payment			Stand-Alone Special Provision	Chris Bucher	Ray Bottenberg	Mike Kimlinger
00252	Temporary Work Bridges	Bridge Engineering	Steel Standards Engineer	Alok Lim	(971) 283-5518	Measurement Payment			Stand-Alone Special Provision	Chris Bucher	Ray Bottenberg	Mike Kimlinger

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http://www.oregon.gov/ODOT/HWY/SPECS/Pages/manuals_forms_etc.aspx#Guides

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RE Exception

Items that require an Exception to the general specifications (00110 – 00199) will also need concurrence from the applicable Technical Resource (TR).

Items that require an Exception to the measurement (.80) or payment (.90) subsections of the technical specifications will only need concurrence from the CAU Technical Resource.

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RE Exception

- Once the RE has obtained concurrence from the TR and POR to use an Exception, the RE should:
  - Send the draft to the RAS to ensure the Exception form addresses the issues on the DRR prior to submitting it to the TR and POR.
  - Attach the TR's and POR's written concurrence to the RE Exception Explanation form prior to submittal.

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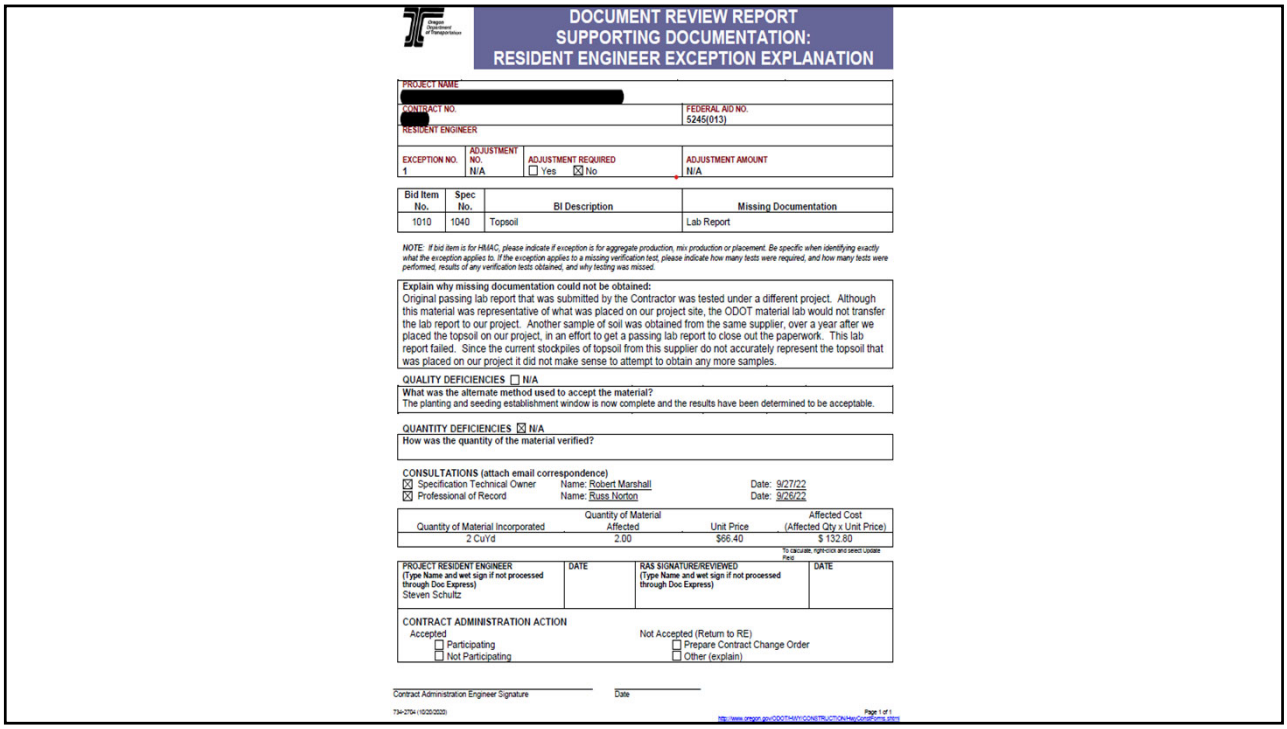
RE Exception

  - Note the names of the TR and POR and the date of when the TR and POR provided concurrence.
  - Attach any additional supporting documentation to the Exception form.
  - Sign and date the form.

- If all the above items have been completed, the RAS will review the Exception form and all the supporting documents, and then sign and date the form.

16



DOCUMENT REVIEW REPORT
SUPPORTING DOCUMENTATION:
RESIDENT ENGINEER EXCEPTION EXPLANATION

PROJECT NAME: [redacted]

CONTRACT NO.: [redacted] | FEDERAL AID NO.: 5245(013)

RESIDENT ENGINEER:

EXCEPTION NO.	ADJUSTMENT NO.	ADJUSTMENT REQUIRED	ADJUSTMENT AMOUNT
1	N/A	☐ Yes ☒ No	N/A

Bid Item No.	Spec No.	BI Description	Missing Documentation
1010	1040	Topsoil	Lab Report

NOTE: If bid item is for HMAC, please indicate if exception is for aggregate production, mix production or placement. Be specific when identifying exactly what the exception applies to. If the exception applies to a missing verification test, please indicate how many tests were required, and how many tests were performed, results of any verification tests obtained, and why testing was missed.

Explain why missing documentation could not be obtained:
Original passing lab report that was submitted by the Contractor was tested under a different project. Although this material was representative of what was placed on our project site, the ODOT material lab would not transfer the lab report to our project. Another sample of soil was obtained from the same supplier, over a year after we placed the topsoil on our project, in an effort to get a passing lab report to close out the paperwork. This lab report failed. Since the current stockpiles of topsoil from this supplier do not accurately represent the topsoil that was placed on our project it did not make sense to attempt to obtain any more samples.

QUALITY DEFICIENCIES ☐ N/A

What was the alternate method used to accept the material?
The planting and seeding establishment window is now complete and the results have been determined to be acceptable.

QUANTITY DEFICIENCIES ☒ N/A

How was the quantity of the material verified?

CONSULTATIONS (attach email correspondence)
☒ Specification Technical Owner Name: Robert Marshall Date: 9/27/22
☒ Professional of Record Name: Russ Norton Date: 9/26/22

Quantity of Material Incorporated	Quantity of Material Affected	Unit Price	Affected Cost (Affected Qty x Unit Price)
2 CuYd	2.00	$66.40	$ 132.80

To calculate, right-click and select Update Field

PROJECT RESIDENT ENGINEER (Type Name and wet sign if not processed through Doc Express)	DATE	RAS SIGNATURE/REVIEWED (Type Name and wet sign if not processed through Doc Express)	DATE
Steven Schultz			

CONTRACT ADMINISTRATION ACTION
Accepted
☐ Participating
☐ Not Participating
Not Accepted (Return to RE)
☐ Prepare Contract Change Order
☐ Other (explain)

Contract Administration Engineer Signature _____ Date _____

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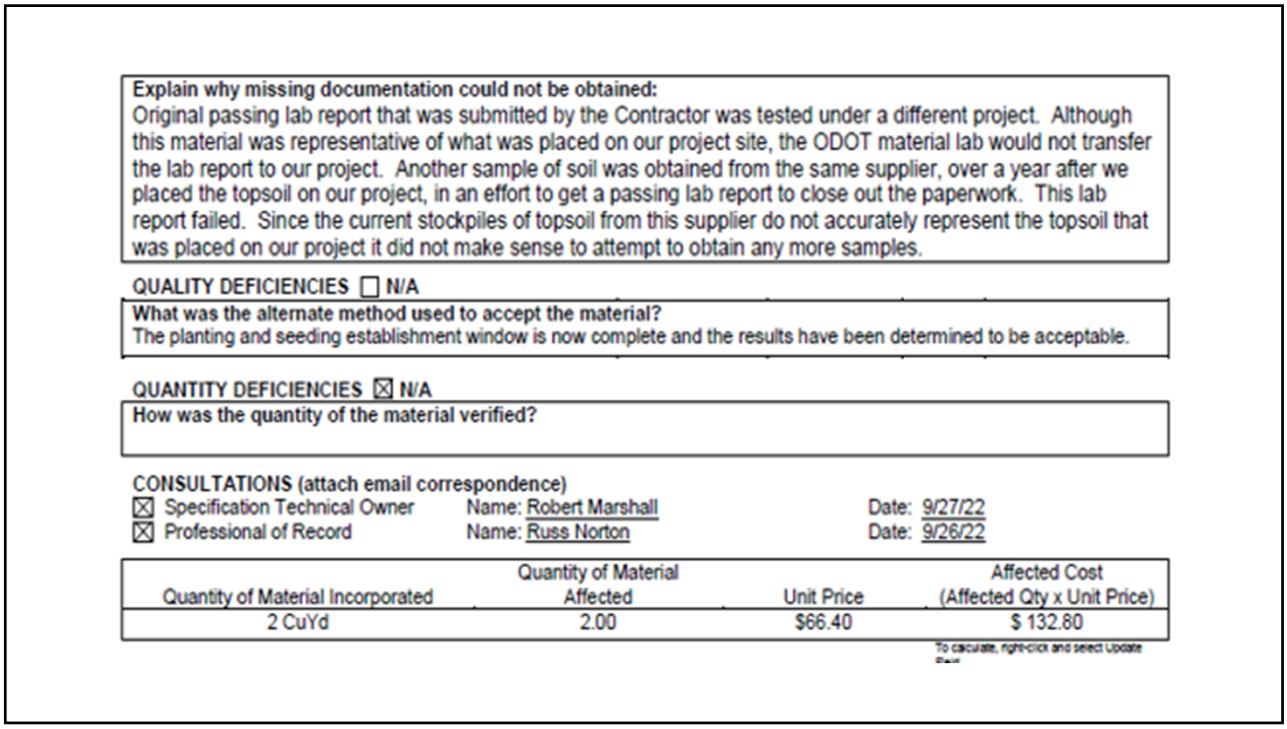

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QUALITY DEFICIENCIES ☐ N/A

What was the alternate method used to accept the material?
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Quantity of Material Incorporated	Quantity of Material Affected	Unit Price	Affected Cost (Affected Qty x Unit Price)
2 CuYd	2.00	$66.40	$ 132.80

To calculate, right-click and select Update Field

18

DOCUMENT REVIEW REPORT
SUPPORTING DOCUMENTATION:
RESIDENT ENGINEER EXCEPTION EXPLANATION

PROJECT NAME [redacted]

CONTRACT NO. [redacted] | FEDERAL AID NO. 035(019)

RESIDENT ENGINEER [redacted]

EXCEPTION NO.	ADJUSTMENT NO.	ADJUSTMENT REQUIRED	ADJUSTMENT AMOUNT
1	1	☐ Yes ☒ No	0.00

Bid Item No.	Spec No.	BI Description	Missing Documentation
3230	640	Aggregate Base	Tare Masses 6/27/2019, P.M. Tares

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Explain why missing documentation could not be obtained:
Material Supplier forgot to provide Daily listing of Tare Masses and only tared the trucks in the morning

QUALITY DEFICIENCIES ☒ N/A

What was the alternate method used to accept the material?
N/A

QUANTITY DEFICIENCIES ☐ N/A

How was the quantity of the material verified?
The Quantity affected is 5 loads after noon of this shift, with a total quantity of 79.69 delivered after noon. Mid shift Tares are to account for changes in the haul unit during the shift. Agg Base doesn't usually build up in the bed, so in this case changes would be due to fuel consumption. The potential Cost discrepency is very low. The alternate means of Quantity verification is to Accept the materials off the tare weight that was recorded at the beginning of the shift.

CONSULTATIONS (attach email correspondence)

☒ Specification Technical Owner Name: Gene Wilborn, PE Date: June 1, 2021
☒ Professional of Record Name: Jason Kelly , PE Date: June 9, 2021

Quantity of Material Incorporated	Quantity of Material Affected	Unit Price	Affected Cost (Affected Qty x Unit Price)
237.15	79.69	$50.00	$3,984.50

To calculate, right-click and select Update Field

PROJECT RESIDENT ENGINEER (Type Name and wet sign if not processed through Doc Express)	DATE	RAS SIGNATURE/REVIEWED (Type Name and wet sign if not processed through Doc Express)	DATE
Jayson Buchholz	6/1/2021		

CONTRACT ADMINISTRATION ACTION

Accepted
☐ Participating
☐ Not Participating

Not Accepted (Return to RE)
☐ Prepare Contract Change Order
☐ Other (explain)

Contract Administration Engineer Signature Date

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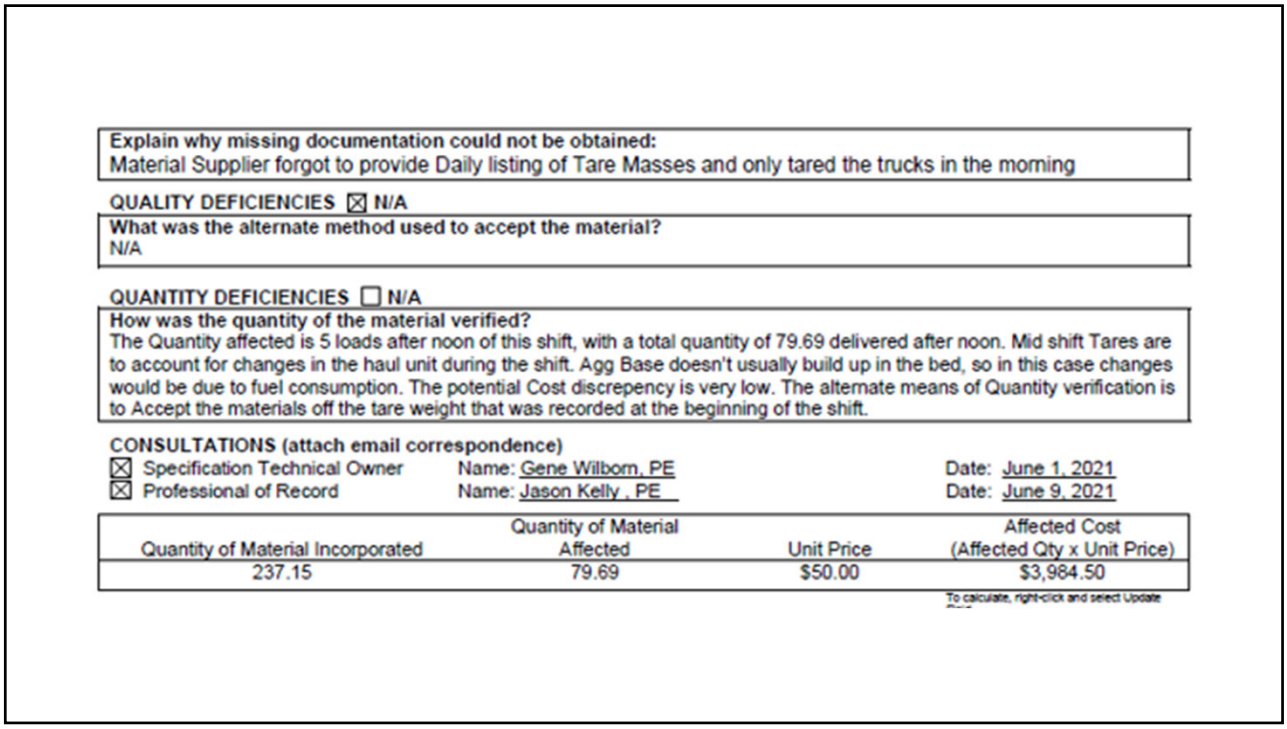

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Material Supplier forgot to provide Daily listing of Tare Masses and only tared the trucks in the morning

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What was the alternate method used to accept the material?
N/A

QUANTITY DEFICIENCIES ☐ N/A

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To calculate, right-click and select Update

20

DOCUMENT REVIEW REPORT
SUPPORTING DOCUMENTATION:
RESIDENT ENGINEER EXCEPTION EXPLANATION

PROJECT NAME: [redacted]
CONTRACT NO.: [redacted] | FEDERAL AID NO.: 7195(002)
RESIDENT ENGINEER: [redacted]

EXCEPTION NO.	ADJUSTMENT NO.	ADJUSTMENT REQUIRED	ADJUSTMENT AMOUNT
1	1	☒ Yes ☐ No	$4399.50

Bid Item No.	Spec No.	BI Description	Missing Documentation
0360	0330	General Excavation	Quality Control and Quality Assurance Testing

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Explain why missing documentation could not be obtained:
The contractor failed to get the required Quality Control (QC) and Quality Assurance (QA) testing for a significant part of the original ground on the project. When we discovered this, they started testing the excavation area under the shoulder for deflection with QC. About 30% of the shoulder excavation area was tested for deflection. The project is limited to shoulder (40%) and sidewalk (60%) excavation. Total affected area is 70% of the shoulder. This quantity would be just over the Small Quantity requirements outlined in the MFTP. One QA test would have been required.

QUALITY DEFICIENCIES ☐ N/A
What was the alternate method used to accept the material?
The deflection testing that was done met the specification requirements. There were also no signs in the existing pavements indicating underlying structural problems. The misssed testing resulted in a penalty to the contractor, based on hourly rates for technicians.

QUANTITY DEFICIENCIES ☒ N/A
How was the quantity of the material verified?

CONSULTATIONS (attach email correspondence)
☒ Specification Technical Owner Name: Curran Mohney Date: 12/5/22
☒ Professional of Record Name: Carl Deaton Date: 12/2/22

Quantity of Material Incorporated	Quantity of Material Affected	Unit Price	Affected Cost (Affected Qty x Unit Price)
2744.40	768.43	$43.50	$33,426.71

To calculate, right-click and select Update Field

PROJECT RESIDENT ENGINEER (Type Name and wet sign if not processed through Doc Express)	DATE	RAS SIGNATURE/REVIEWED (Type Name and wet sign if not processed through Doc Express)	DATE
Steven Schultz			

CONTRACT ADMINISTRATION ACTION
Accepted
☐ Participating
☐ Not Participating
Not Accepted (Return to RE)
☐ Prepare Contract Change Order
☐ Other (explain)

Contract Administration Engineer Signature _____ Date _____

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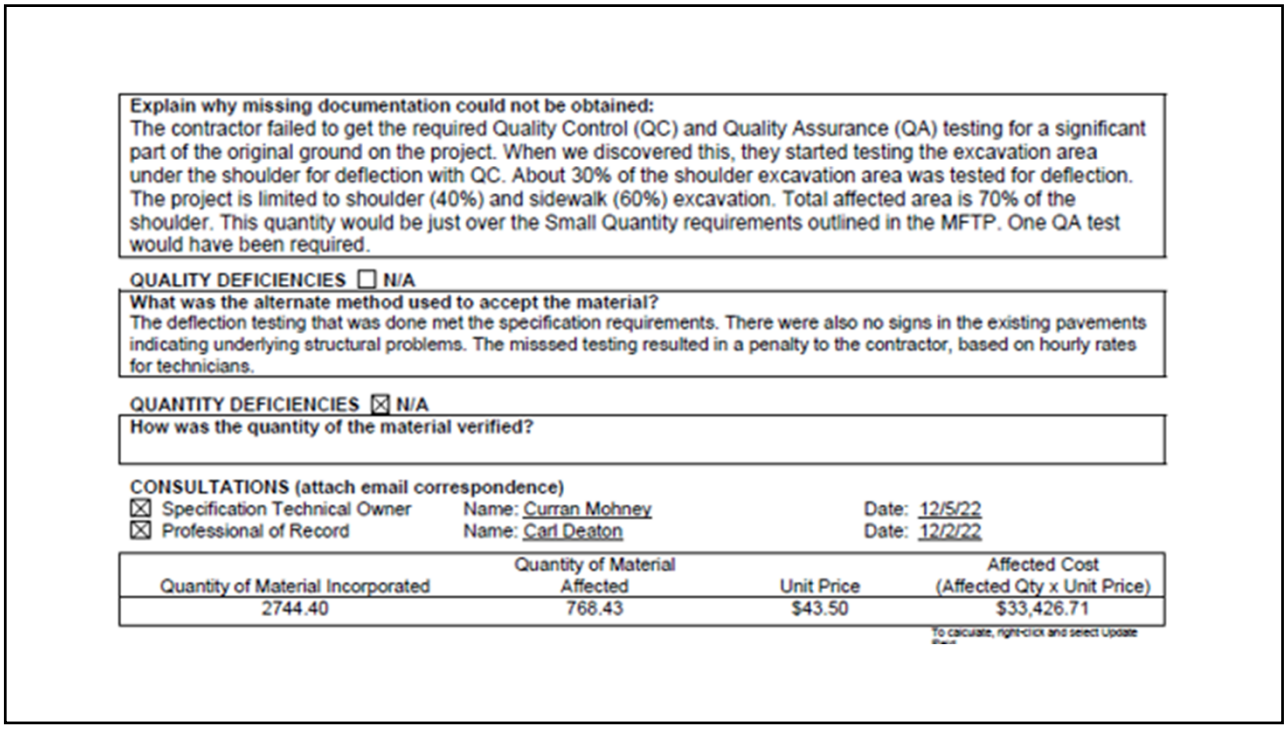

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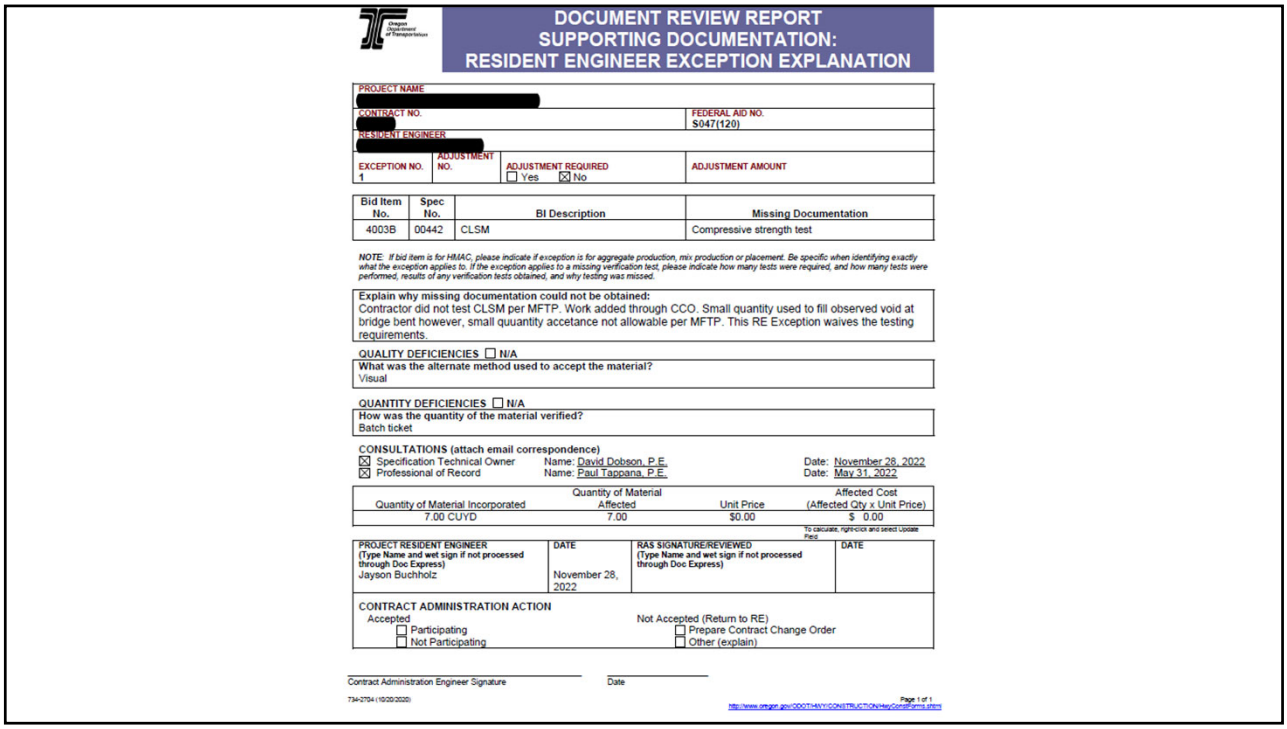


DOCUMENT REVIEW REPORT
SUPPORTING DOCUMENTATION:
RESIDENT ENGINEER EXCEPTION EXPLANATION

PROJECT NAME [redacted]

CONTRACT NO. [redacted] | FEDERAL AID NO. S047(120)

RESIDENT ENGINEER [redacted]

EXCEPTION NO.	ADJUSTMENT NO.	ADJUSTMENT REQUIRED	ADJUSTMENT AMOUNT
1		☐ Yes ☒ No	

Bid Item No.	Spec No.	BI Description	Missing Documentation
4003B	00442	CLSM	Compressive strength test

NOTE: If bid item is for HMAC, please indicate if exception is for aggregate production, mix production or placement. Be specific when identifying exactly what the exception applies to. If the exception applies to a missing verification test, please indicate how many tests were required, and how many tests were performed, results of any verification tests obtained, and why testing was missed.

Explain why missing documentation could not be obtained:
Contractor did not test CLSM per MFTP. Work added through CCO. Small quantity used to fill observed void at bridge bent however, small quuantity accetance not allowable per MFTP. This RE Exception waives the testing requirements.

QUALITY DEFICIENCIES ☐ N/A

What was the alternate method used to accept the material?
Visual

QUANTITY DEFICIENCIES ☐ N/A

How was the quantity of the material verified?
Batch ticket

CONSULTATIONS (attach email correspondence)
☒ Specification Technical Owner Name: David Dobson, P.E. Date: November 28, 2022
☒ Professional of Record Name: Paul Tappana, P.E. Date: May 31, 2022

Quantity of Material Incorporated	Quantity of Material Affected	Unit Price	Affected Cost (Affected Qty x Unit Price)
7.00 CUYD	7.00	$0.00	$ 0.00

To calculate, right-click and select Update Field

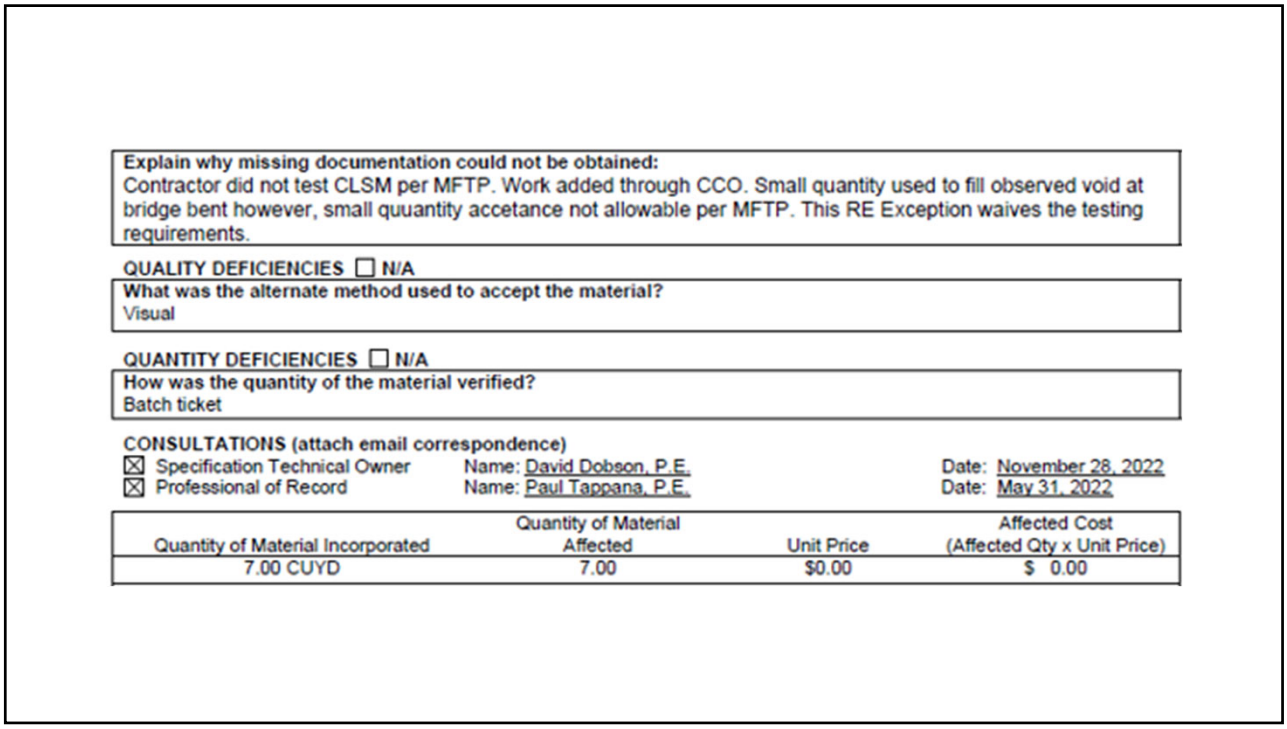
PROJECT RESIDENT ENGINEER (Type Name and wet sign if not processed through Doc Express)	DATE	RAS SIGNATURE/REVIEWED (Type Name and wet sign if not processed through Doc Express)	DATE
Jayson Buchholz	November 28, 2022		

CONTRACT ADMINISTRATION ACTION
Accepted
☐ Participating
☐ Not Participating
Not Accepted (Return to RE)
☐ Prepare Contract Change Order
☐ Other (explain)

Contract Administration Engineer Signature Date

734-2704 (10/20/2020) Page 1 of 1
http://www.oregon.gov/ODOT/HWY/CONSTRUCTION/Hwy/ConstForms.shtml

23



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QUALITY DEFICIENCIES ☐ N/A

What was the alternate method used to accept the material?
Visual

QUANTITY DEFICIENCIES ☐ N/A

How was the quantity of the material verified?
Batch ticket

CONSULTATIONS (attach email correspondence)
☒ Specification Technical Owner Name: David Dobson, P.E. Date: November 28, 2022
☒ Professional of Record Name: Paul Tappana, P.E. Date: May 31, 2022

Quantity of Material Incorporated	Quantity of Material Affected	Unit Price	Affected Cost (Affected Qty x Unit Price)
7.00 CUYD	7.00	$0.00	$ 0.00

24

Quality Price Adjustment

The Contractor must furnish Materials and perform the required Work in a manner that closely conforms to Contract requirements. As stated in Section 00150.25, if the Materials furnished or the Work performed are not in close conformance, the Resident Engineer (RE) may order the Materials or Work to be removed and replaced or may allow the Materials or Work to remain in place at a reduction in payment.

25

Adjustments

Some Contracts also allow the Contractor to receive a premium price adjustment (bonus) for Work or Materials that meet the requirements for such an adjustment. To assess an adjustment and modify the Pay Item price, the RE will need to enter the amount of each adjustment in the 6000 series of the Contract Payment System (CPS), including a reference to the Pay Item.

The RE must also address the issue of Quality of Materials and workmanship when completing the required Prime Contractor Performance Evaluation. [Refer to Chapter 34 - Contractor Performance Evaluation.]

26

Adjustments

Materials and Work that are in close conformance with the Contract requirements are paid at the full price.

Materials or Work that are not in close conformance with the requirements, but are considered suitable for the intended purpose, may be approved for use with an appropriate adjustment (reduction) in price. The RE must consult with the Professional of Record (POR) for the Work when determining whether the Material or Work is suitable for the intended purpose.

27

Adjustments

Materials or Work that are not in close conformance with the Contract requirements, and are not considered suitable for the intended purpose, shall be rejected and not incorporated into the finished Work unless the defects are corrected in a manner acceptable to the RE.

A Contract Change Order (CCO) is not required if one of the standard price adjustments listed in Section 12C-2 is used. A CCO is required whenever a non-standard adjustment is made allowing no specification Material to remain in place.

28

Adjustments

If you have any questions regarding whether or not a CCO is required, contact the Region Assurance Specialist (RAS) or Contract Administration Unit (CAU) for guidance.

Agency will pay a bonus for Materials (normally Materials used in surfacings) or workmanship (including compaction of asphalt concrete or smoothness of pavement) that exceeds the specified Contract requirements.

Refer to the Specification for particular Materials to determine whether the Contractor may be eligible to receive a bonus payment.

29

Adjustments

All premium price adjustments must be listed on the Final Materials Certification (form 734-1979) when the final Project documentation is compiled for submittal at the completion of the Project. [Refer to Chapter 12B Quality and Chapter 37 – Submittal of Final Project Documentation.]

Materials that are not in close conformance with Contract requirements but are suitable for the intended purpose, the RE must assess a price adjustment if the Materials are to remain in place.

30

Adjustments

Items for Price Adjustment are, but not limited to:

- Geotextile Products
- Flexible Bituminous Adhesives
- Failing PG Asphalt Cement
- Failing Emulsified Asphalt
- Failing Bituminous Mixtures
- Failing Density, ACP
- Failing Aggregate Test

31

Adjustments

- Failing Aggregate Test
- Failing Concrete
- Stat Spec
- Smoothness Bonus
- Missing Process Control test and Missing Reports

32

CONSTRUCTION MATERIAL TESTING SERVICES

Costs based on testing services from each region.

TEST NAME	DESIGNATION	Cost per Test or Hour
Mileage (per mile)	NA	$0.75
Minimum Charge	NA	$100.00
Technician - CCT/QCT	NA	$100.00
Technician (Cat 1, CagT, CDT)	NA	$100.00
Engineer-hourly	NA	$125.00
AGGREGATE TESTS		
Sand Equivalent	AASHTO T 176	$141.00
Liquid Limit	AASHTO T 89	$63.00
Plastic Limit	AASHTO T 90	$77.00
Unit Weight	AASHTO T 19	$59.00
Fine Bulk Gravity	AASHTO T 84	$98.00
Coarse Bulk Gravity	AASHTO T85	$77.00
Dry Gradation	AASHTO T 27	$81.00
Washed Grading	AASHTO T27/T11	$121.00
% Fracture	AASHTO T 335	$59.00
Wood Waste	ODOT TM 225	$40.00
Cleanness Value	ODOT TM 227	$106.00
Elongated Pieces 5:1	ODOT TM 229	$63.00
Moisture-aggr	AASHTO T 255	$59.00
SOILS TESTS		
Sand Equivalent	AASHTO T 176	$141.00
Liquid Limit	AASHTO T 89	$63.00
Plastic Limit	AASHTO T 90	$77.00
Moisture-Density Method A (5.5 lb)	AASHTO T 99	$367.00
Moisture-Density Method D (5.5 lb)	AASHTO T 99	$367.00
Moisture-Density Method A (10 lb)	AASHTO T 180	$500.00
Moisture-Density Method D (10 lb)	AASHTO T 180	$500.00
Moisture Content	AASHTO T 265	$21.00
BITUMINOUS TESTS		
% AC by Incineration	AASHTO T 308	$300.00
Calibration Factor for T-308	ODOT TM 323	$1200.00
Moisture-bit mix	AASHTO T 329	$100.00
Bulk Gravity- DG Compacted mix	AASHTO T 166	$167.00
Maximum Specific Density-rice	AASHTO T 209	$100.00
Tensile Strength Ratio (TSR)	AASHTO T 283	$500.00
CONCRETE TESTS		
Cylinder Compressive Strength-per cylinder	AASHTO T 22	$57.00
Grout Cube Compressive Str-per cube	AASHTO T 106	$57.00

*minimum charge is $100.00.
If total of tests missed does not equal $100.00, you must still charge $100.00.

construction_materials_testing_fees.docx 10-31-2019

33

Project Information

[redacted] | [redacted] | 011 Subjob | 06 Estimate | 01 Pay Note | [redacted] Contract

Adjustment, Missing Moisture Tests | 6039 Bid/Pay Item | [redacted] Resident Engineer | [redacted] Prepared by

Method of Quality Assurance

Quality Documentation*		F - Field Inspection Report (FIR)				QPL
		New*	Previous	Estimate	Pay Note	Link (opt.)	
☐ E	☐ O	☐	☐				☑ No QPL
☐ L (Report #)	☐ BG	☐	☐				☐ QPL - Approved
☐ I (Report #)	☐ R	☐	☐				☐ QPL - Qualified
☐ W	☐ P/R	☐	☐				QPL #
☐ P	☐ Q	☐	☐				QPL #
☐ M	☐ T	☐	☐				QPL #
☐ Small Quantity	☑ Field Tested Material	☐	☑				QPL #
*Click on letters for definitions.		*Enter on New Field Inspection Information page below.					Future QPL #

Quantity Data

0.000 Previous Quantity | Dollar Unit

(888.000) (+ or -) Quantity This Note

(888.000) Total Quantity to Date

☐ Remeasurement

☐ Measured In Place Method

☐ Partial Payment

☐ Material on Hand (see Material on Hand page below)

See Below Installation Date

Item Completion Date

Calculations and/or Remarks

As per Spec. 00641.16 of the Standard Specification for Aggregate Base & Shoulder Mixture.
MFTP, Stated a Moisture Test (T255 & T265) to be performed 1/Sublot or 1/Day

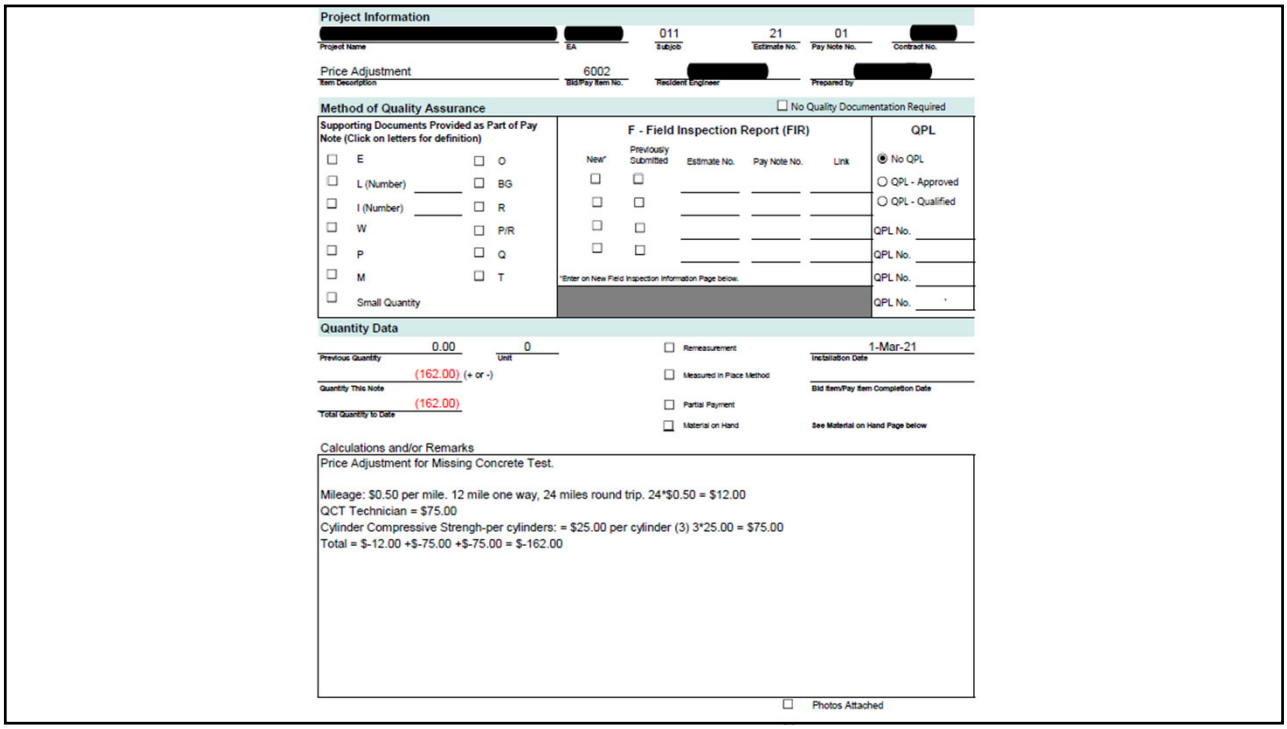
Moisture Test Missed for Plant Mix Aggregate Base.
Mileage: 23 miles one way. Total 46 miles @ $0.50 per mile = $23.00

1 Technician (Cagt) $75.00
1 Moisture-Aggregate Test $50.00
Total = $-125.00 Deduction

Dates Missing:
04-01-22
04-04-22
04-05-22
04-06-22
04-07-22
04-08-22

6 Days @ $-23.00 = $-138.00
6 Days @ $-125.00 = $-750.00
Total = $-888.00

34



Project Information

[redacted] | EA | 011 Subjob | 21 Estimate No. | 01 Pay Note No. | [redacted] Contract No.

Price Adjustment (Item Description) | 6002 Bid/Pay Item No. | [redacted] Resident Engineer | [redacted] Prepared by

Method of Quality Assurance ☐ No Quality Documentation Required

Supporting Documents Provided as Part of Pay Note (Click on letters for definition)

☐ E ☐ O
☐ L (Number) ☐ BG
☐ I (Number) ☐ R
☐ W ☐ P/R
☐ P ☐ Q
☐ M ☐ T
☐ Small Quantity

F - Field Inspection Report (FIR)

New*	Previously Submitted	Estimate No.	Pay Note No.	Link
☐	☐			
☐	☐			
☐	☐			
☐	☐			

*Enter on New Field Inspection Information Page below.

QPL

◉ No QPL
○ QPL - Approved
○ QPL - Qualified
QPL No.
QPL No.
QPL No.
QPL No.

Quantity Data

0.00 Previous Quantity | 0 Unit
(162.00) (+ or -) Quantity This Note
(162.00) Total Quantity to Date

☐ Remeasurement
☐ Measured in Place Method
☐ Partial Payment
☐ Material on Hand

1-Mar-21 Initiation Date
Bid Item/Pay Item Completion Date
See Material on Hand Page below

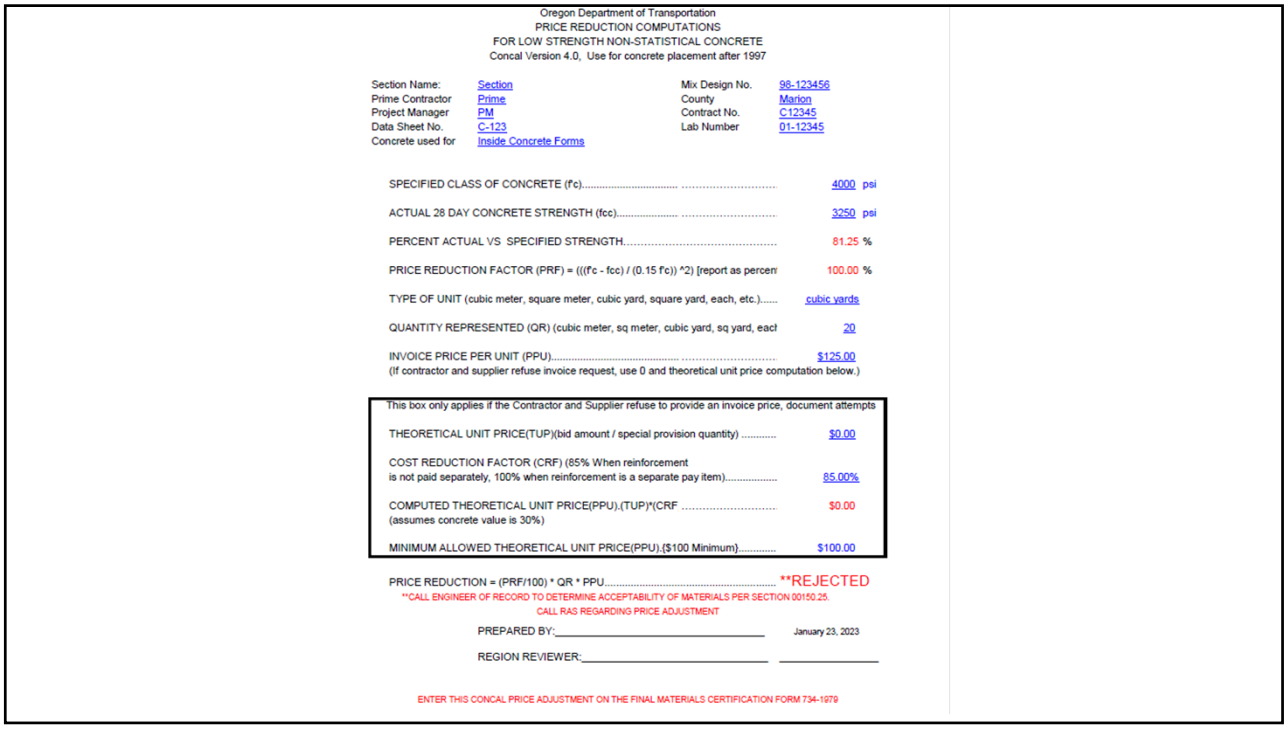
Calculations and/or Remarks

Price Adjustment for Missing Concrete Test.

Mileage: $0.50 per mile. 12 mile one way, 24 miles round trip. 24*$0.50 = $12.00
QCT Technician = $75.00
Cylinder Compressive Strengh-per cylinders: = $25.00 per cylinder (3) 3*25.00 = $75.00
Total = $-12.00 +$-75.00 +$-75.00 = $-162.00

☐ Photos Attached

35



Oregon Department of Transportation
PRICE REDUCTION COMPUTATIONS
FOR LOW STRENGTH NON-STATISTICAL CONCRETE
Concal Version 4.0, Use for concrete placement after 1997

Section Name:	Section	Mix Design No.	98-123456
Prime Contractor	Prime	County	Marion
Project Manager	PM	Contract No.	C12345
Data Sheet No.	C-123	Lab Number	01-12345
Concrete used for	Inside Concrete Forms		

SPECIFIED CLASS OF CONCRETE (f'c)	4000 psi
ACTUAL 28 DAY CONCRETE STRENGTH (fcc)	3250 psi
PERCENT ACTUAL VS SPECIFIED STRENGTH	81.25 %
PRICE REDUCTION FACTOR (PRF) = (((f'c - fcc) / (0.15 f'c)) ^2) [report as percen	100.00 %
TYPE OF UNIT (cubic meter, square meter, cubic yard, square yard, each, etc.)	cubic yards
QUANTITY REPRESENTED (QR) (cubic meter, sq meter, cubic yard, sq yard, eac	20
INVOICE PRICE PER UNIT (PPU) (If contractor and supplier refuse invoice request, use 0 and theoretical unit price computation below.)	$125.00

This box only applies if the Contractor and Supplier refuse to provide an invoice price, document attempts

THEORETICAL UNIT PRICE(TUP)(bid amount / special provision quantity)	$0.00
COST REDUCTION FACTOR (CRF) (85% When reinforcement is not paid separately, 100% when reinforcement is a separate pay item)	85.00%
COMPUTED THEORETICAL UNIT PRICE(PPU).(TUP)*(CRF (assumes concrete value is 30%)	$0.00
MINIMUM ALLOWED THEORETICAL UNIT PRICE(PPU).($100 Minimum)	$100.00

PRICE REDUCTION = (PRF/100) * QR * PPU **REJECTED

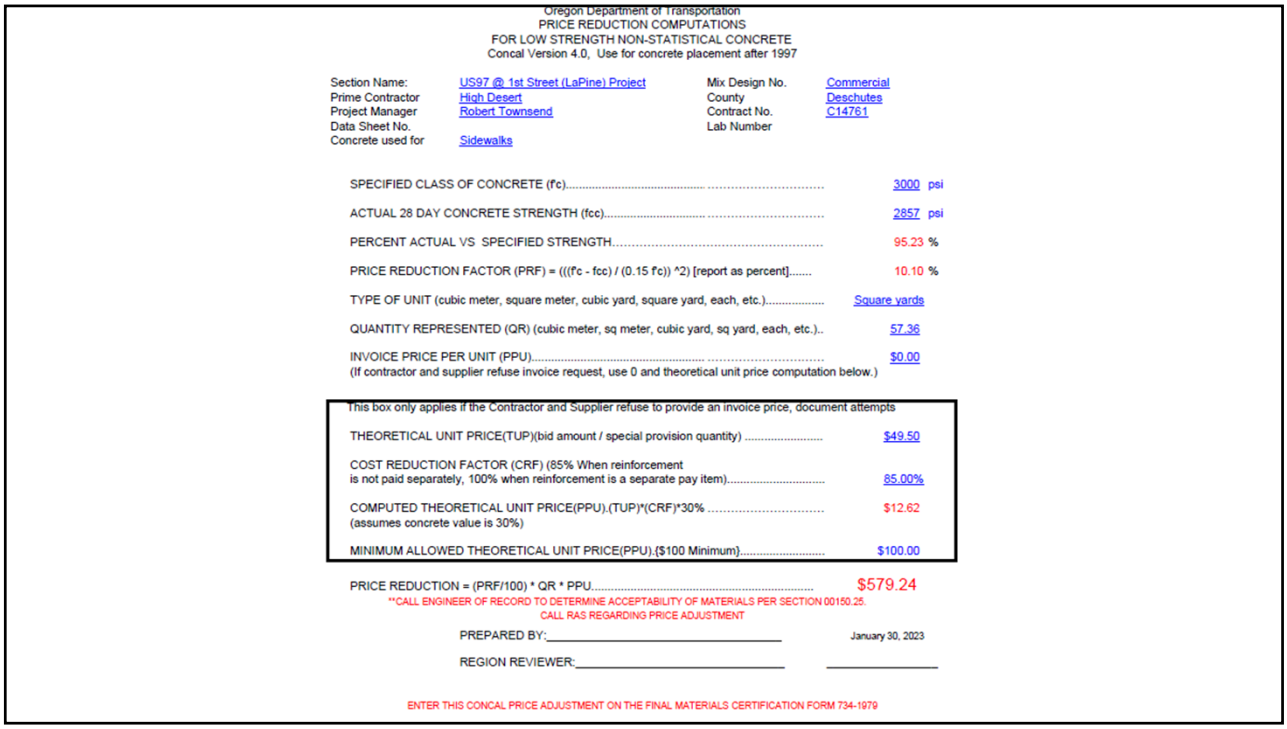
**CALL ENGINEER OF RECORD TO DETERMINE ACCEPTABILITY OF MATERIALS PER SECTION 00150.25.
CALL RAS REGARDING PRICE ADJUSTMENT

PREPARED BY:_____ January 23, 2023

REGION REVIEWER:_____

ENTER THIS CONCAL PRICE ADJUSTMENT ON THE FINAL MATERIALS CERTIFICATION FORM 734-1979

36



Oregon Department of Transportation
PRICE REDUCTION COMPUTATIONS
FOR LOW STRENGTH NON-STATISTICAL CONCRETE
Concal Version 4.0, Use for concrete placement after 1997

Section Name:	US97 @ 1st Street (LaPine) Project	Mix Design No.	Commercial
Prime Contractor	High Desert	County	Deschutes
Project Manager	Robert Townsend	Contract No.	C14761
Data Sheet No.		Lab Number	
Concrete used for	Sidewalks		

SPECIFIED CLASS OF CONCRETE (f'c)	3000 psi
ACTUAL 28 DAY CONCRETE STRENGTH (fcc)	2857 psi
PERCENT ACTUAL VS SPECIFIED STRENGTH	95.23 %
PRICE REDUCTION FACTOR (PRF) = (((f'c - fcc) / (0.15 f'c)) ^2) [report as percent]	10.10 %
TYPE OF UNIT (cubic meter, square meter, cubic yard, square yard, each, etc.)	Square yards
QUANTITY REPRESENTED (QR) (cubic meter, sq meter, cubic yard, sq yard, each, etc.)	57.36
INVOICE PRICE PER UNIT (PPU) (If contractor and supplier refuse invoice request, use 0 and theoretical unit price computation below.)	$0.00

This box only applies if the Contractor and Supplier refuse to provide an invoice price, document attempts

THEORETICAL UNIT PRICE(TUP)(bid amount / special provision quantity)	$49.50
COST REDUCTION FACTOR (CRF) (85% When reinforcement is not paid separately, 100% when reinforcement is a separate pay item)	85.00%
COMPUTED THEORETICAL UNIT PRICE(PPU).(TUP)*(CRF)*30% (assumes concrete value is 30%)	$12.62
MINIMUM ALLOWED THEORETICAL UNIT PRICE(PPU).($100 Minimum)	$100.00

PRICE REDUCTION = (PRF/100) * QR * PPU $579.24

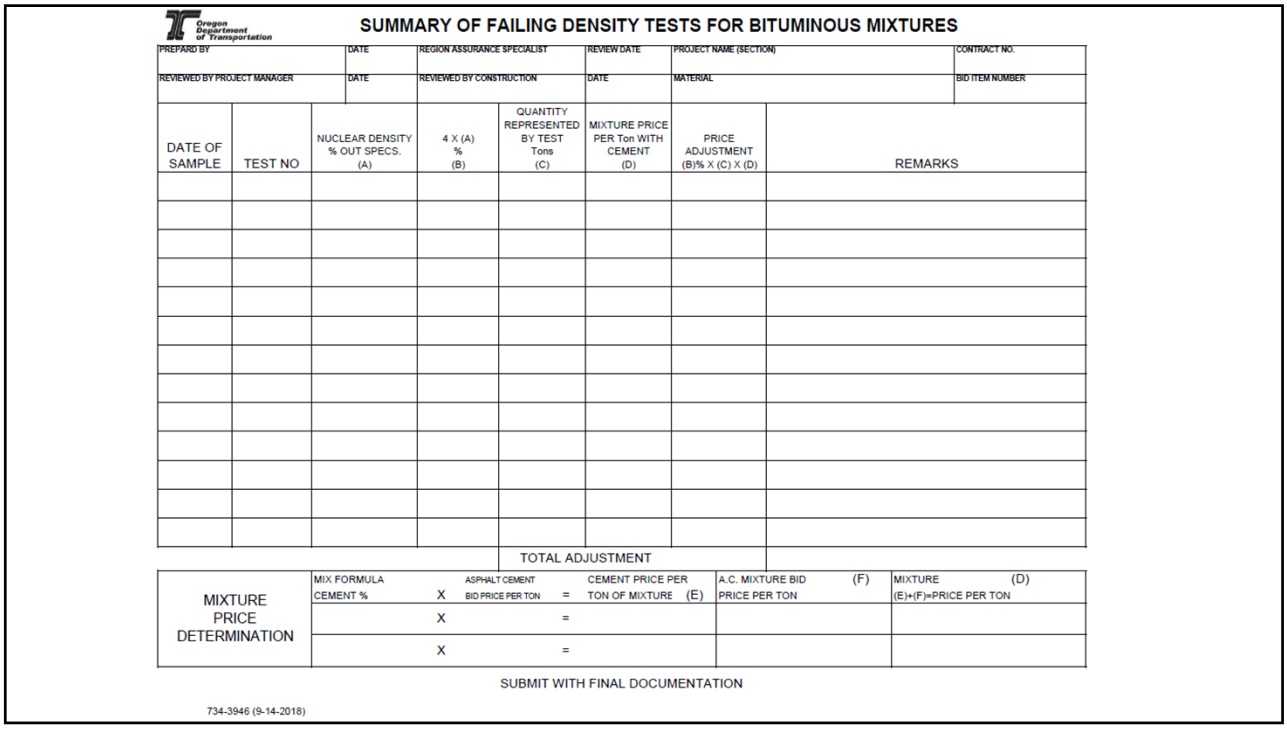
**CALL ENGINEER OF RECORD TO DETERMINE ACCEPTABILITY OF MATERIALS PER SECTION 00150.25.
CALL RAS REGARDING PRICE ADJUSTMENT

PREPARED BY:_____ January 30, 2023

REGION REVIEWER:_____ _____

ENTER THIS CONCAL PRICE ADJUSTMENT ON THE FINAL MATERIALS CERTIFICATION FORM 734-1979

37



Oregon Department of Transportation

SUMMARY OF FAILING DENSITY TESTS FOR BITUMINOUS MIXTURES

PREPARD BY	DATE	REGION ASSURANCE SPECIALIST	REVIEW DATE	PROJECT NAME (SECTION)	CONTRACT NO.
REVIEWED BY PROJECT MANAGER	DATE	REVIEWED BY CONSTRUCTION	DATE	MATERIAL	BID ITEM NUMBER

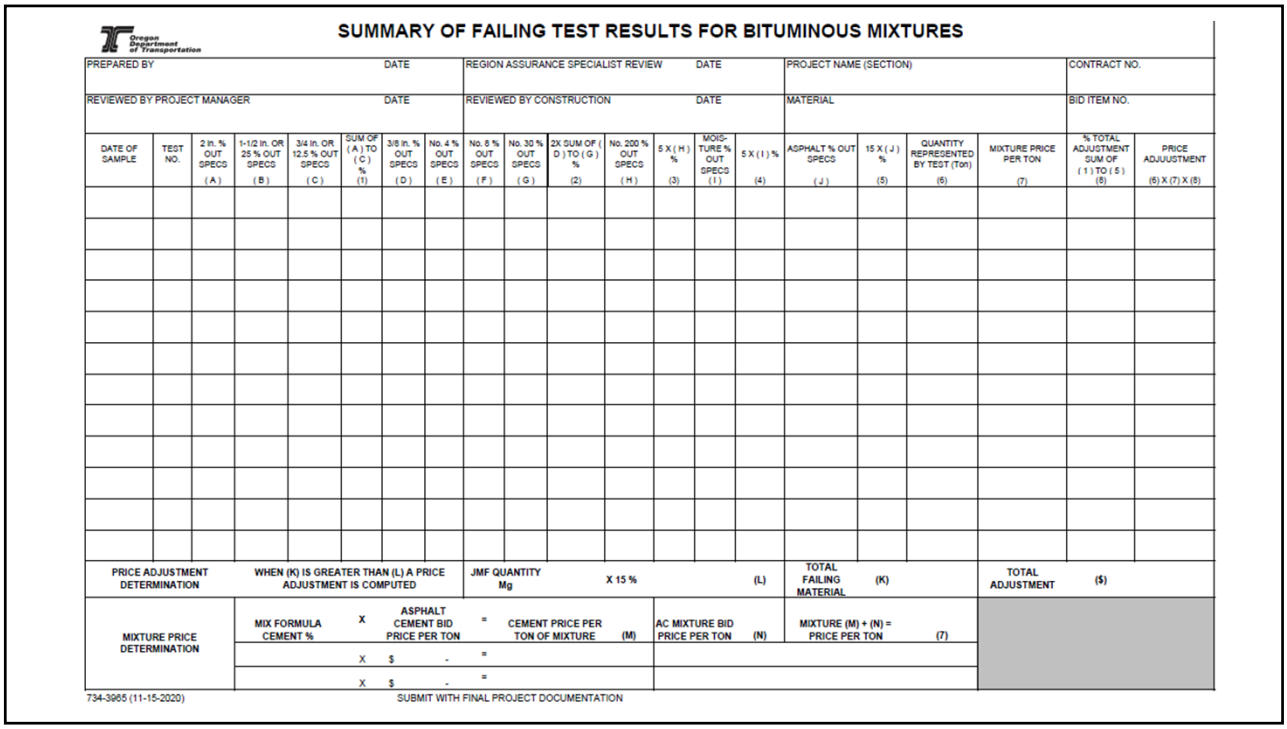
DATE OF SAMPLE	TEST NO	NUCLEAR DENSITY % OUT SPECS. (A)	4 X (A) % (B)	QUANTITY REPRESENTED BY TEST Tons (C)	MIXTURE PRICE PER Ton WITH CEMENT (D)	PRICE ADJUSTMENT (B)% X (C) X (D)	REMARKS
				TOTAL ADJUSTMENT			

	MIX FORMULA CEMENT %		ASPHALT CEMENT BID PRICE PER TON		CEMENT PRICE PER TON OF MIXTURE (E)	A.C. MIXTURE BID PRICE PER TON (F)	MIXTURE (E)+(F)=PRICE PER TON (D)
MIXTURE PRICE DETERMINATION		X		=			
		X		=			

SUBMIT WITH FINAL DOCUMENTATION

734-3946 (9-14-2018)

38



SUMMARY OF FAILING TEST RESULTS FOR BITUMINOUS MIXTURES

Oregon Department of Transportation

PREPARED BY	DATE	REGION ASSURANCE SPECIALIST REVIEW	DATE	PROJECT NAME (SECTION)	CONTRACT NO.
REVIEWED BY PROJECT MANAGER	DATE	REVIEWED BY CONSTRUCTION	DATE	MATERIAL	BID ITEM NO.

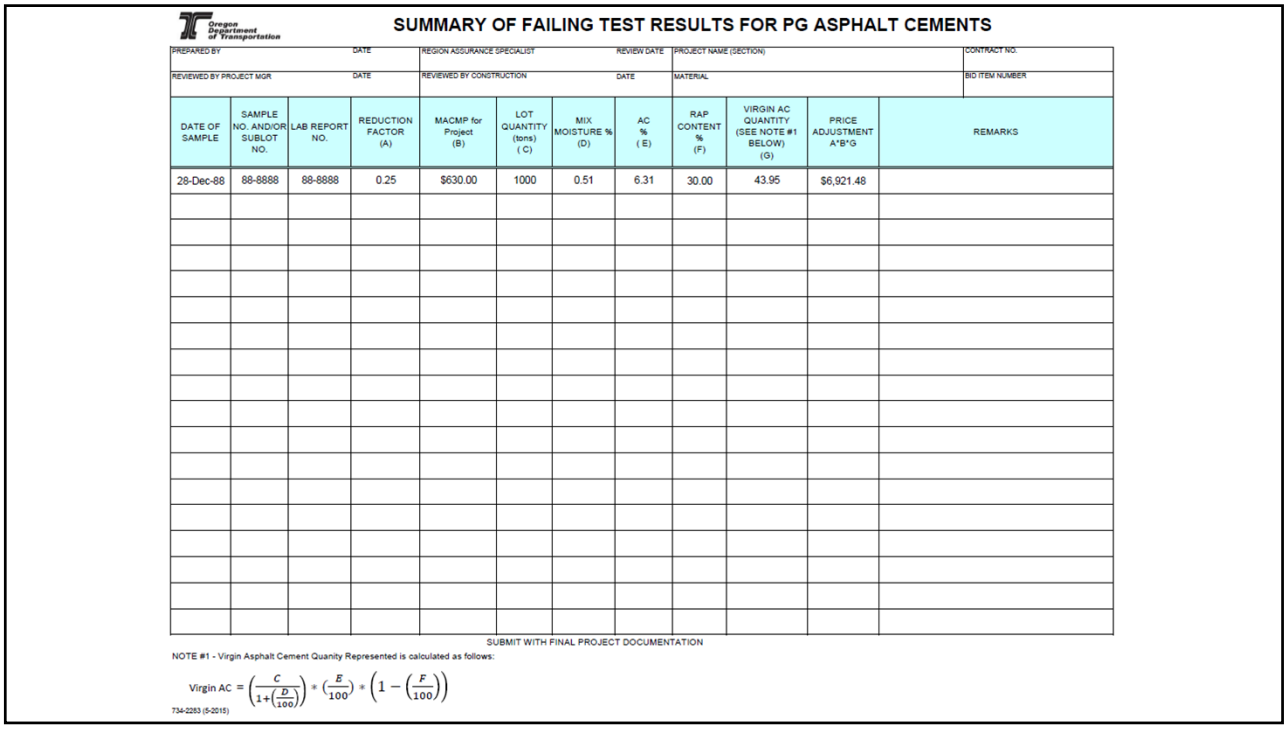
DATE OF SAMPLE	TEST NO.	2 in. % OUT SPECS (A)	1-1/2 in. OR 25 % OUT SPECS (B)	3/4 in. OR 12.5 % OUT SPECS (C)	SUM OF (A) TO (C) % (1)	3/8 in. % OUT SPECS (D)	No. 4 % OUT SPECS (E)	No. 8 % OUT SPECS (F)	No. 30 % OUT SPECS (G)	2X SUM OF (D) TO (G) % (2)	No. 200 % OUT SPECS (H)	5 X (H) % (3)	MOIS-TURE % OUT SPECS (I)	5 X (I) % (4)	ASPHALT % OUT SPECS (J)	15 X (J) % (5)	QUANTITY REPRESENTED BY TEST (Ton) (6)	MIXTURE PRICE PER TON (7)	% TOTAL ADJUSTMENT SUM OF (1) TO (5) (8)	PRICE ADJUUSTMENT (6) X (7) X (8)

PRICE ADJUSTMENT DETERMINATION	WHEN (K) IS GREATER THAN (L) A PRICE ADJUSTMENT IS COMPUTED	JMF QUANTITY Mg	X 15 %	(L)	TOTAL FAILING MATERIAL (K)	TOTAL ADJUSTMENT ($)

MIXTURE PRICE DETERMINATION	MIX FORMULA CEMENT %	X	ASPHALT CEMENT BID PRICE PER TON	=	CEMENT PRICE PER TON OF MIXTURE (M)	AC MIXTURE BID PRICE PER TON (N)	MIXTURE (M) + (N) = PRICE PER TON (7)
		X	$ -	=			
		X	$ -	=			

734-3965 (11-15-2020) SUBMIT WITH FINAL PROJECT DOCUMENTATION

39



SUMMARY OF FAILING TEST RESULTS FOR PG ASPHALT CEMENTS

Oregon Department of Transportation

PREPARED BY	DATE	REGION ASSURANCE SPECIALIST	REVIEW DATE	PROJECT NAME (SECTION)	CONTRACT NO.
REVIEWED BY PROJECT MGR	DATE	REVIEWED BY CONSTRUCTION	DATE	MATERIAL	BID ITEM NUMBER

DATE OF SAMPLE	SAMPLE NO. AND/OR SUBLOT NO.	LAB REPORT NO.	REDUCTION FACTOR (A)	MACMP for Project (B)	LOT QUANTITY (tons) (C)	MIX MOISTURE % (D)	AC % (E)	RAP CONTENT % (F)	VIRGIN AC QUANTITY (SEE NOTE #1 BELOW) (G)	PRICE ADJUSTMENT A*B*G	REMARKS
28-Dec-88	88-8888	88-8888	0.25	$630.00	1000	0.51	6.31	30.00	43.95	$6,921.48	

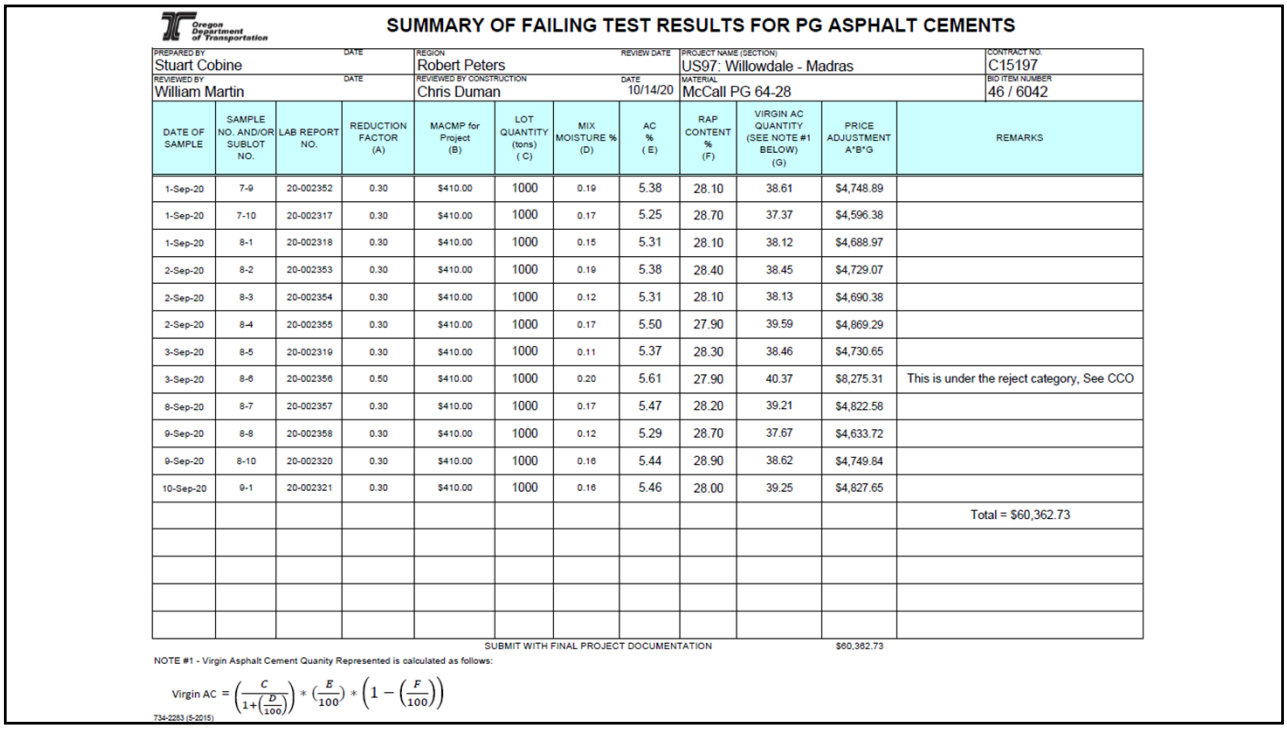
SUBMIT WITH FINAL PROJECT DOCUMENTATION

NOTE #1 - Virgin Asphalt Cement Quanity Represented is calculated as follows:

$$\text{Virgin AC} = \left(\frac{C}{1+\left(\frac{D}{100}\right)}\right) * \left(\frac{E}{100}\right) * \left(1-\left(\frac{F}{100}\right)\right)$$

734-2283 (5-2015)

40



Oregon Department of Transportation

SUMMARY OF FAILING TEST RESULTS FOR PG ASPHALT CEMENTS

PREPARED BY: Stuart Cobine	DATE	REGION: Robert Peters	REVIEW DATE	PROJECT NAME (SECTION): US97: Willowdale - Madras		CONTRACT NO.: C15197	
REVIEWED BY: William Martin	DATE	REVIEWED BY CONSTRUCTION: Chris Duman	DATE: 10/14/20	MATERIAL: McCall PG 64-28		BID ITEM NUMBER: 46 / 6042	

DATE OF SAMPLE	SAMPLE NO. AND/OR SUBLOT NO.	LAB REPORT NO.	REDUCTION FACTOR (A)	MACMP for Project (B)	LOT QUANTITY (tons) (C)	MIX MOISTURE % (D)	AC % (E)	RAP CONTENT % (F)	VIRGIN AC QUANTITY (SEE NOTE #1 BELOW) (G)	PRICE ADJUSTMENT A*B*G	REMARKS
1-Sep-20	7-9	20-002352	0.30	$410.00	1000	0.19	5.38	28.10	38.61	$4,748.89	
1-Sep-20	7-10	20-002317	0.30	$410.00	1000	0.17	5.25	28.70	37.37	$4,596.38	
1-Sep-20	8-1	20-002318	0.30	$410.00	1000	0.15	5.31	28.10	38.12	$4,688.97	
2-Sep-20	8-2	20-002353	0.30	$410.00	1000	0.19	5.38	28.40	38.45	$4,729.07	
2-Sep-20	8-3	20-002354	0.30	$410.00	1000	0.12	5.31	28.10	38.13	$4,690.38	
2-Sep-20	8-4	20-002355	0.30	$410.00	1000	0.17	5.50	27.90	39.59	$4,869.29	
3-Sep-20	8-5	20-002319	0.30	$410.00	1000	0.11	5.37	28.30	38.46	$4,730.65	
3-Sep-20	8-6	20-002356	0.50	$410.00	1000	0.20	5.61	27.90	40.37	$8,275.31	This is under the reject category, See CCO
8-Sep-20	8-7	20-002357	0.30	$410.00	1000	0.17	5.47	28.20	39.21	$4,822.58	
9-Sep-20	8-8	20-002358	0.30	$410.00	1000	0.12	5.29	28.70	37.67	$4,633.72	
9-Sep-20	8-10	20-002320	0.30	$410.00	1000	0.16	5.44	28.90	38.62	$4,749.84	
10-Sep-20	9-1	20-002321	0.30	$410.00	1000	0.16	5.46	28.00	39.25	$4,827.65	
											Total = $60,362.73

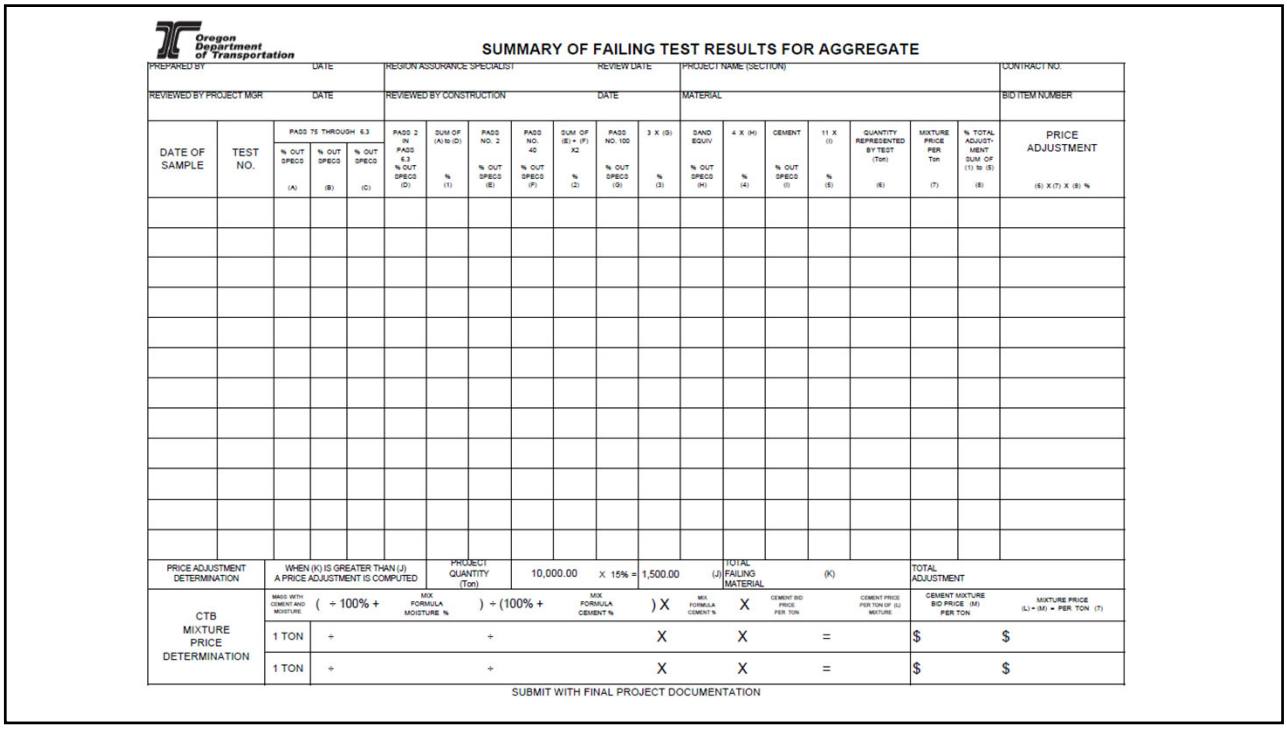
SUBMIT WITH FINAL PROJECT DOCUMENTATION $60,362.73

NOTE #1 - Virgin Asphalt Cement Quanity Represented is calculated as follows:

$$\text{Virgin AC} = \left(\frac{C}{1+\left(\frac{D}{100}\right)}\right) * \left(\frac{E}{100}\right) * \left(1-\left(\frac{F}{100}\right)\right)$$

734-2283 (5-2015)

41



Oregon Department of Transportation

SUMMARY OF FAILING TEST RESULTS FOR AGGREGATE

PREPARED BY	DATE	REGION ASSURANCE SPECIALIST	REVIEW DATE	PROJECT NAME (SECTION)		CONTRACT NO.	
REVIEWED BY PROJECT MGR	DATE	REVIEWED BY CONSTRUCTION	DATE	MATERIAL		BID ITEM NUMBER	

DATE OF SAMPLE	TEST NO.	PASS 75 THROUGH 6.3			PASS 2 IN PASS 6.3 % OUT SPECS (D)	DUM OF (A) to (D)	PASS NO. 2	PASS NO. 40	DUM OF (E) + (F) X2	PASS NO. 100	3 X (G)	SAND EQUIV	4 X (H)	CEMENT	11 X (I)	QUANTITY REPRESENTED BY TEST (Ton)	MIXTURE PRICE PER Ton	% TOTAL ADJUST-MENT DUM OF (1) to (5)	PRICE ADJUSTMENT
		% OUT SPECS (A)	% OUT SPECS (B)	% OUT SPECS (C)		% (1)	% OUT SPECS (E)	% OUT SPECS (F)	% (2)	% OUT SPECS (G)	% (3)	% OUT SPECS (H)	% (4)	% OUT SPECS (I)	% (5)	(6)	(7)	(8)	(6) X (7) X (8) %

PRICE ADJUSTMENT DETERMINATION	WHEN (K) IS GREATER THAN (J) A PRICE ADJUSTMENT IS COMPUTED				PROJECT QUANTITY (Ton)	10,000.00	X 15% =	1,500.00	(J)	TOTAL FAILING MATERIAL		(K)				TOTAL ADJUSTMENT			
CTB MIXTURE PRICE DETERMINATION	MASS WITH CEMENT AND MOISTURE	(÷ 100% +	MIX FORMULA MOISTURE %	) ÷ (100% +	MIX FORMULA CEMENT %	) X	MIX FORMULA CEMENT %	X	CEMENT BID PRICE PER TON	X	CEMENT PRICE PER TON OF (L) MIXTURE	=				CEMENT MIXTURE BID PRICE (M) PER TON		MIXTURE PRICE (L) + (M) = PER TON (7)	
	1 TON	÷		÷		X		X		=						$		$	
	1 TON	÷		÷		X		X		=						$		$	

SUBMIT WITH FINAL PROJECT DOCUMENTATION

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Question?

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