



# CHAPTER 12D

## QUANTITIES

### 12D-1 Measurement

General measurement guidelines are defined in Subsection 00190.10. These include the guidelines for measuring Work or Materials on the unit basis, length basis, area basis, weight basis, volume basis, time basis and lump sum basis. Specific measurement requirements may be contained in the individual Measurement Subsection of the Standard Specifications or Special Provisions.

Check Contract Change Orders (CCOs), Addenda, Special Provisions, Project-specific drawings, Standard Drawings, and Standard Specifications to assure that the correct measurement is used for each item.

Guidelines for measurement are:

#### **A. Area, Linear, and Volume**

These measurements should normally be supplemented with a field sketch. Each document must be validated to show that the Work was performed. A validation statement, such as "measured", "re-measured", "installed", or "constructed", validates the source document in addition to a signature and date.

Measurement of certain Pay Items is limited to the Neat Lines shown in the Plans (e.g., 00557.80(b), Constructing Premixed Polymer Concrete Overlay). For these items a change order is required to modify dimensions. There is sometimes an allowance for changes as directed by the Engineer (e.g., 00759.80, volume and area basis).

For these items, unless there is an Agency-required change that modifies the dimensions of the Work, field measurements should not be used to calculate quantities for payment. If the Contractor is directed to perform Work beyond the Neat Lines (increasing or decreasing the dimensions of the Work), field measurements are required to support the quantities paid. When an Agency-required change modifies the dimensions of the Work, written direction from the Engineer, or an FIR that documents the Agency-required change, should be included with the source document.

#### **B. Vehicle Measure**

Document each haul vehicle volume with measurements of the hauling portion to support "water level" capacity. Be sure to use the proper mathematical procedure to calculate the volume. If there is doubt, the prismoidal formula works for all cases.

When each load is delivered, verify that the load quantity equals the calculated "water level" quantity. If it is less than the "water level" quantity, deduct the quantity less than "water level". If a load is over the "water level" quantity, make no adjustment for the extra Material. Clearly document this on the Material Delivery and Yield Check Sheet, form 734-2792. [See Section 12D-1(n)(4)(b).]

If the same number of loader buckets of a Material will be loaded into each haul vehicle, determine the average load volume instead of determining the measured capacity of each haul vehicle. Load the same number of full buckets, not leveled, onto a minimum of two (2) haul vehicles. Level, measure, and calculate the volume of each load. The average of the two (2) loads is the pay volume for all loads delivered and accepted.

Refer to the discussion of Weigh Memos and Scale Diary in Section 12D-1(n) for quantity requirements related to loads of material.

Remember that the Resident Engineer (RE) is responsible for measuring and determining quantity for all Pay Items. The Contractor is not allowed to document or establish pay quantities.

#### **C. Weight/Volume Measurement Method Change**

If the RE wishes to change the measurement from weight (Ton) to volume (cubic yards) or wishes to change any of the requirements of Subsection 00190.20, the RE must execute a CCO. The CCO shall include a credit to the Agency for the Contractor's cost savings related to not providing and operating the scales required by 00190.20.

Determine conversion factors prior to performing the work. Include conversion factor data for each Pay Item as part of the CCO, consisting of:

- For each type of Material, load a minimum of two (2) haul vehicles that can be readily measured.
- Determine the net weight (also gross and tare weights when appropriate) and the volume for each load.
- The average of the loads will establish the conversion factor.

#### **D. Weighing**

See the discussion on Weigh Memos and Scale Diary in Section 12D-1(n).

#### **E. Lump Sum**

At the pre-construction conference, the Contractor should submit a breakdown or schedule for lump sum payments. If the Contractor does not provide the breakdown, the RE will complete and share with the Contractor. See Section 12D-2(c) - Example #2, for a good example of a completed lump sum breakdown.

The RE must review the breakdown and make adjustments, if necessary, after discussion with the Contractor. Each progress payment for the lump sum item must relate to, and be substantiated by, the lump sum breakdown. If RE will be making partial payment on a LS pay item, a copy of the LS breakdown must be included with the first pay note. Also, refer to 00195.50.

#### **F. Each**

These items must be identified by station or location. Items that are installed in groups, such as plants and shrubs, are exceptions that may be listed in groups at general locations.

#### **G. Temporary Striping, Temporary Tape (Removable, Non-Removable, Non-Reflective), Temporary Pavement Bars and Bar Removal**

The bid prices for these items only apply to the bid quantity. Payment for quantities beyond the bid quantity will be made as specified under Subsection 00225.90. Address this prior to the quantity of Work performed reaches the bid quantity.

To continue paying at the bid price beyond the bid quantity, the RE must analyze the cost of the Work and justify that the bid price is no more than the cost to perform the Work. If the bid price is no more than the cost to perform the Work, the RE must include a cost analysis with the item documentation and include it with the Project documentation.

## 12D-2 Quantity Documentation

The written evidence to support progress payments, and eventually final payment, consists of “source documents” with appropriate signed and dated calculation sheets showing the quantities of Work completed or accepted. For progress payments on lump sum items, a signed and dated source document must verify the amount of Work completed and correspond to an appropriate lump sum breakdown, or schedule, approved by the Resident Engineer (RE) and generally submitted by the Contractor.

### A. Source Documents

Source documents must be prepared in a clear manner such that a person who has never been on the Project and knows nothing about the Work should be able to follow what is being paid for and why.

“Source documents” are the field notes, calculations, receipts, invoices, and reports used to determine project pay quantities. Acceptable source documents generally do not exceed a single pay period and shall include the following:

- 1. Project Identification** – There must be sufficient identification on each document to clearly identify on which Project the Work was done. If the document is large enough, both the Project name and Contract number should appear on each document, including those documents prepared by the Contractor, Supplier, or manufacturer.
- 2. Pay Item Identification** – Project Pay Item number(s) and, if appropriate, the item name. The source document must also indicate the proper Participation Indicator (sub-job) to which the Work is to be charged if more than one Participation Indicator could be used for that Pay Item.
- 3. Validation** – Verifying statement that the item was actually installed, performed, re-measured, furnished, completed, received, or accepted.
- 4. Specific Location of Installation** – Project station(s) and, when appropriate to clarify or explain measurements, a sketch of the installation to show measurements or as-constructed details. Include additional information, such as Bridge number or stream, intersection, street, or road names (if applicable).
- 5. Date(s)** – Date(s) the source document was prepared, validated, checked, and, (when appropriate) the date(s) of the Work.
- 6. Signatures** – Signatures for each person that prepared, validated, and checked the document. If the checker finds an error in the original information, the checker should have the orig-

inal preparer review and confirm the correction. A signature is a person's name written the way that they normally write it. Initials are not acceptable unless the person's signature also appears on or is attached to the document. Source documents shall show the signature of the person making the entries and the names of other members of the crew involved in obtaining the information on the note. Payments should not be posted until the document has been checked by a second person.

Prepare the source document at the time and place of delivery, performance, installation, or measurement of the Pay Item. Line out, rather than erase, incorrect entries on a source document. Validate alteration of data by date and signature. If one person makes all of the changes and the affected documents are bound, a single validation statement is sufficient.

### **B. Computer-Generated Source Documents**

In order to allow the use of computers by field personnel, the following guidelines also apply to computer-generated source documents:

- A source document for a unit price Pay Item normally covers one pay period.
- Calculation methods and input must be checked.
- Formula(s) for calculations must be included and shown on the final quantity source document.
- Summary sheets do not replace final quantity source documents.

### **C. Record Keeping**

Record keeping is extremely important for payment purposes. Accurate records are required to assure proper progress and final payments. The RE must assure that the procedures include the following activities:

- Review Plan quantities to verify their accuracy.
- Establish quantity documentation methods for progress and final payments.
- Organize a user-friendly system for records.
- Use proper validation of source documents.
- Use accurate, easy to follow measurement and calculation methods.
- Assure that each pay quantity is properly charged to the right Participation Indicator (sub-job).
- Have a second person check all formulas and calculations.

- Prepare a summary sheet of pay quantities.
- Assemble documents for final records submittal.

It is important to remember that Section 00190.00 of the Contract specifically states that the Engineer will measure or determine all pay quantities unless otherwise specified. The RE is responsible for measurement and quantity determinations for all Pay Items.

Contractors and Subcontractors are not allowed to document or establish pay quantities. The RE may use some information that is developed by the Contractor or Subcontractor to determine pay quantities, but must perform some sort of validation of the Contractor or Subcontractor's information. For example:

- Although the Contractor is allowed to complete a Sprinkling Tally Sheet, form 734-3427 or a similar format, the Inspector must validate the quantity used. [See Section 12D-1(k).]
- Section 12D-1(n) on Weigh Memos and Scale Diary addresses Materials weighed on Contractor-provided scales.
- If the RE uses information prepared by the Contractor's surveyor to calculate pay quantities, the RE must perform a validation of the surveyor's information. [See Section 12D-1(j).]

Each Pay Item must have documentation to support each monthly payment. It is reasonable to expect a reviewer to request documentation for a payment made the previous month or many months before. Do not make any payment without the proper quantity calculations and required quality documents.

Organize the documentation for easy review. Submit as discussed in Chapter 37 - Submittal of Final Project Documentation.

For reference, following are some examples of Source Documents ("paynotes") prepared using the ODOT Paynote, form 734-2605.

# **TP & DT Example**



## Pay Note (Project Work Record)

### Project Information

US101/OR38: Variable Message Sign Upgrades Project	CON04384	011	04	03	C15266
Project Name	EA	Subjob	Estimate No.	Pay Note No.	Contract No.
Temporary Protection & Direction of Traffic	0020	Don Duey	Lajuana Kelley 49678		
Item Description	Bid/Pay Item No.	Resident Engineer	Prepared by		

### Method of Quality Assurance

 No Quality Documentation Required

Supporting Documents Provided as Part of Pay Note (Click on letters for definition)	F - Field Inspection Report (FIR)					QPL
<input type="checkbox"/> E <input type="checkbox"/> O <input type="checkbox"/> L (Number) _____ <input type="checkbox"/> BG <input type="checkbox"/> I (Number) _____ <input type="checkbox"/> R <input type="checkbox"/> W <input type="checkbox"/> P/R <input type="checkbox"/> P <input type="checkbox"/> Q <input type="checkbox"/> M <input type="checkbox"/> T <input type="checkbox"/> Small Quantity	New*	Previously Submitted	Estimate No.	Pay Note No.	Link	<input type="checkbox"/> No QPL <input type="checkbox"/> QPL - Approved <input type="checkbox"/> QPL - Qualified QPL No. _____ QPL No. _____ QPL No. _____ QPL No. _____ QPL No. (Future) _____
*Enter on New Field Inspection Information Page below.						

### Quantity Data

Previous Quantity	66.66	LS	<input type="checkbox"/> Remeasurement	2021/10/31
Unit				Installation Date
Quantity This Note	33.34 (+ or -)		<input type="checkbox"/> Measured in Place Method	2021/10/31
Total Quantity to Date	100.00		<input checked="" type="checkbox"/> Partial Payment	Bid Item/Pay Item Completion Date
			<input type="checkbox"/> Material on Hand	See Material on Hand Page below

### Calculations and/or Remarks

According to the Contractor's Lump Sum Breakdown, this item is to be paid as follows:

August	33.33%
September	33.33%
October	<b>33.34%</b>
Total =	100.00%
Project complete	

Photos Attached  
 Illustration Attached

### Reviewed by

Quality Checked by	Date
Quality Checked by	Date



# **Erosion Control Example**



# Pay Note (Project Work Record)

## Project Information

Cornelius Pass Road, Arterial Corridor Management Project Project Name	CON04506 EA	011 Subjob	08 Estimate	02 Pay Note	C15353 Contract
Erosion Control Item Description	0130 Bid/Pay Item	Rick Smith Resident Engineer		Jeffrey Martin Prepared by	

## Method of Quality Assurance

Quality Documentation*	F - Field Inspection Report (FIR)	QPL																																			
<input type="checkbox"/> E <input type="checkbox"/> L (Report #) _____ <input type="checkbox"/> I (Report #) _____ <input type="checkbox"/> W <input type="checkbox"/> P <input type="checkbox"/> M <input type="checkbox"/> Small Quantity  <input type="checkbox"/> O <input type="checkbox"/> BG <input type="checkbox"/> R <input type="checkbox"/> P/R <input type="checkbox"/> Q <input type="checkbox"/> T <input type="checkbox"/> Field Tested Material  <small>*Click on letters for definitions.</small>	<table border="1"> <thead> <tr> <th>New*</th> <th>Previous</th> <th>Estimate</th> <th>Pay Note</th> <th>Link (opt.)</th> </tr> </thead> <tbody> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>_____</td><td>_____</td><td>_____</td></tr> </tbody> </table> <small>*Enter on New Field Inspection Information page below.</small>	New*	Previous	Estimate	Pay Note	Link (opt.)	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	<input checked="" type="checkbox"/> No QPL <input type="checkbox"/> QPL - Approved <input type="checkbox"/> QPL - Qualified  QPL # _____ QPL # _____ QPL # _____ QPL # _____ Future QPL # _____
New*	Previous	Estimate	Pay Note	Link (opt.)																																	
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____																																	
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____																																	
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____																																	
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____																																	
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____																																	
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____																																	

## Quantity Data

Previous Quantity	25.00%	LS	<input type="checkbox"/> Remeasurement	20221221
Quantity This Note	25.00% (+ or -)		<input type="checkbox"/> Measured in Place Method	Installation Date
Total Quantity to Date	50.00%		<input checked="" type="checkbox"/> Partial Payment	Item Completion Date
Calculations and/or Remarks			<input type="checkbox"/> Material on Hand (see Material on Hand page below)	

Please see attached LS Breakdown for payment justification for the month of December, 2022. Contractor's Erosion and Sediment Control Plan accepted on March 28, 2022 and is on-file on DocExpress.

- No Quality Documentation Required     
  Photos Attached     
  Illustration Attached

## Reviewed by

Quality Checked by	Date	Quantity Checked by	Date
--------------------	------	---------------------	------

<b>Lump Sum Breakdown</b>									
<b>Bid Item # 0130, Erosion Control</b>									
C15353 Cornelius Pass Road Arterial Corridor Management									
<i>Lump Sum breakdown as per 00280.90 of the 2021 Standard Specifications</i>									
DESCRIPTION	Bid Qty	Unit	Unit Price	Bid Price	Prev. Qty	Qty. this est.	\$ This est.	Qty TL	Total \$ Paid
Erosion Control	1.00	LS		2,000.00			0.25	0.50	1,000.00
Initial ESCP, narrative, and schedule are complete and accepted, and the initial EC devices are installed.	1.00	LS	500.00	500.00	1.00	0.00	0.00	1.00	500.00
50% of the original Contract is complete, excluding MOH payments	1.00	LS	500.00	500.00	0.00	1.00	500.00	1.00	500.00
75% of the original Contract is complete, excluding MOH payments	1.00	LS	500.00	500.00	0.00	0.00	0.00	0.00	0.00
At completion of the Contract and all ESCD's are either removed from the Project site or are fully functioning as permanent components of the project	1.00	LS	500.00	500.00	0.00	0.00	0.00	0.00	0.00
<b>Month of Estimate: December</b>							500.00		1,000.00
						Installed this estimate	25.00%		
<b>Signature/Date</b>									

# **Temporary Stripe Example**



**Pay Note  
(Project Work Record)**

**Project Information**

I-84: Multnomah Falls - Toothrock Tunnel - Cascade Locks Project Name	CON04501 EA	011 Subjob	04 Estimate	01 Pay Note	15348 Contract
Temporary Striping Item Description	0150 Bid/Pay Item	Resident Engineer	Prepared by		

**Method of Quality Assurance**

Quality Documentation*	F - Field Inspection Report (FIR)	QPL																																			
<input type="checkbox"/> E <input type="checkbox"/> O <input type="checkbox"/> L (Report #) <input type="checkbox"/> BG <input type="checkbox"/> I (Report #) <input type="checkbox"/> R <input type="checkbox"/> W <input type="checkbox"/> P/R <input type="checkbox"/> P <input type="checkbox"/> Q <input type="checkbox"/> M <input type="checkbox"/> T <input type="checkbox"/> Small Quantity <input type="checkbox"/> Field Tested Material	<table border="1"> <thead> <tr> <th>New*</th> <th>Previous</th> <th>Estimate</th> <th>Pay Note</th> <th>Link (opt.)</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td align="center">004</td> <td align="center">001</td> <td></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	New*	Previous	Estimate	Pay Note	Link (opt.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	004	001		<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/> No QPL <input checked="" type="checkbox"/> QPL - Approved <input type="checkbox"/> QPL - Qualified QPL #                      4999 QPL #                      4998 QPL #                      1448 QPL #                      _____ Future QPL #             _____
New*	Previous	Estimate	Pay Note	Link (opt.)																																	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	004	001																																		
<input type="checkbox"/>	<input type="checkbox"/>																																				
<input type="checkbox"/>	<input type="checkbox"/>																																				
<input type="checkbox"/>	<input type="checkbox"/>																																				
<input type="checkbox"/>	<input type="checkbox"/>																																				
<input type="checkbox"/>	<input type="checkbox"/>																																				
<small>*Click on letters for definitions.</small>	<small>*Enter on New Field Inspection Information page below.</small>																																				

**Quantity Data**

0.000 Previous Quantity	FT Unit	<input type="checkbox"/> Remeasurement	6/19/22 Installation Date
7366.000 (+ or -) Quantity This Note		<input checked="" type="checkbox"/> Measured in Place Method	Item Completion Date
7366.000 Total Quantity to Date		<input type="checkbox"/> Partial Payment	
Calculations and/or Remarks		<input type="checkbox"/> Material on Hand (see Material on Hand page below)	

Pay per Std Spec 225  
Field verified WB I-84 at Structures 8692 and 8610W, measured in place as follows;

White 4" Fog from 884+36 - 865+68 =	1868 ft
White 4" skip 885+20 - 866+00 = 1920/40 = 48 x 10 =	480 ft
White 4" Fog from 522+89 - 508+23 =	1466 ft
White 4" skip 522+88 - 509+48 = 1340/40 = 33.5 x 10 =	335 ft
<b>Subtotal White</b>	<b>4149 ft</b>
Yellow 4" CL from 885+20 - 866+78 =	1842 ft
Yellow 4" CL from 522+90 - 509+15 =	1375 ft
<b>Subtotal Yellow</b>	<b>3217 ft</b>

**Pay Total: 7366 ft**

No Quality Documentation Required     
  Photos Attached     
  Illustration Attached

**Reviewed by**

Quality Checked by	Date	Quality Checked by	Date
--------------------	------	--------------------	------



**Pay Note (New Field Inspection)  
(Project Work Record)**

I-84: Multnomah Falls - Toothrock Tunnel - Cascade Locks	0150	04	01	15348
Project Name	Bid/Pay Item	Estimate	Pay Note	Contract

**Materials Delivered for this Project**

Longitudinal Pavement Marking- Yellow  
Type of Material

Swarco  
Source of Material (Manufacturer or Fabricator)

<u>3217.00</u>	<u>FT</u>	<u>3217.00</u>
Quantity Delivered	Unit	Quantity Received

<u>3217.00</u>	<u>117000.00</u>	
Total Accepted to Date	Estimated Total Required	

6/19/2022  
Date Delivered

KERR Contractors  
Delivered to (Name of Contractor/Subcontractor)

0.00  
Quantity Rejected

n/a  
Rejection explanation/reason

on site  
Where inspected

Em Swager  
Inspector Name

51050  
Cert. #

Remarks

**Materials Delivered for this Project**

Longitudinal Pavement Marking - White  
Type of Material

Swarco  
Source of Material (Manufacturer or Fabricator)

<u>4149.00</u>	<u>FT</u>	<u>4149.00</u>
Quantity Delivered	Unit	Quantity Received

<u>4149.00</u>	<u>234000.00</u>	
Total Accepted to Date	Estimated Total Required	

6/19/2022  
Date Delivered

KERR Contractors  
Delivered to (Name of Contractor/Subcontractor)

0.00  
Quantity Rejected

n/a  
Rejection explanation/reason

on site  
Where inspected

Em Swager  
Inspector Name

51050  
Cert. #

Remarks

**Materials Delivered for this Project**

Glass beads - reflective elements  
Type of Material

Potter's  
Source of Material (Manufacturer or Fabricator)

	<u>FT</u>	
Quantity Delivered	Unit	Quantity Received

	<u>234000.00</u>	
Total Accepted to Date	Estimated Total Required	

6/19/2022  
Date Delivered

KERR Contractors  
Delivered to (Name of Contractor/Subcontractor)

0.00  
Quantity Rejected

n/a  
Rejection explanation/reason

on site  
Where inspected

Em Swager  
Inspector Name

51050  
Cert. #

Remarks

# **Delineator Example**



**Pay Note  
(Project Work Record)**

**Project Information**

NW Oregon (Southern Portion) curve warning upgrades	CON04453	011	06	01	15313
Project Name	EA	Subjob	Estimate	Pay Note	Contract
DELINEATORS, TYPE 7	0190	Steven Schultz PE RE		Bryce Cunnington	52216
Item Description	Bid/Pay Item	Resident Engineer		Prepared by	

**Method of Quality Assurance**

<p align="center"><b>Quality Documentation*</b></p> <table border="0"> <tr><td><input type="checkbox"/> E</td><td><input type="checkbox"/> O</td></tr> <tr><td><input type="checkbox"/> L (Report #) _____</td><td><input type="checkbox"/> BG</td></tr> <tr><td><input type="checkbox"/> I (Report #) _____</td><td><input type="checkbox"/> R</td></tr> <tr><td><input type="checkbox"/> W</td><td><input type="checkbox"/> P/R</td></tr> <tr><td><input type="checkbox"/> P</td><td><input checked="" type="checkbox"/> Q</td></tr> <tr><td><input type="checkbox"/> M</td><td><input type="checkbox"/> T</td></tr> <tr><td><input type="checkbox"/> Small Quantity</td><td><input type="checkbox"/> Field Tested Material</td></tr> </table> <p><small>*Click on letters for definitions.</small></p>	<input type="checkbox"/> E	<input type="checkbox"/> O	<input type="checkbox"/> L (Report #) _____	<input type="checkbox"/> BG	<input type="checkbox"/> I (Report #) _____	<input type="checkbox"/> R	<input type="checkbox"/> W	<input type="checkbox"/> P/R	<input type="checkbox"/> P	<input checked="" type="checkbox"/> Q	<input type="checkbox"/> M	<input type="checkbox"/> T	<input type="checkbox"/> Small Quantity	<input type="checkbox"/> Field Tested Material	<p align="center"><b>F - Field Inspection Report (FIR)</b></p> <table border="0"> <tr> <th>New*</th> <th>Previous</th> <th>Estimate</th> <th>Pay Note</th> <th>Link (opt.)</th> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> </table> <p><small>*Enter on New Field Inspection Information page below.</small></p>	New*	Previous	Estimate	Pay Note	Link (opt.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	<p align="center"><b>QPL</b></p> <table border="0"> <tr><td><input type="checkbox"/> No QPL</td></tr> <tr><td><input checked="" type="checkbox"/> QPL - Approved</td></tr> <tr><td><input type="checkbox"/> QPL - Qualified</td></tr> <tr><td>QPL # _____ 3470</td></tr> <tr><td>QPL # _____</td></tr> <tr><td>QPL # _____</td></tr> <tr><td>QPL # _____</td></tr> <tr><td>Future QPL # _____</td></tr> </table>	<input type="checkbox"/> No QPL	<input checked="" type="checkbox"/> QPL - Approved	<input type="checkbox"/> QPL - Qualified	QPL # _____ 3470	QPL # _____	QPL # _____	QPL # _____	Future QPL # _____
<input type="checkbox"/> E	<input type="checkbox"/> O																																																					
<input type="checkbox"/> L (Report #) _____	<input type="checkbox"/> BG																																																					
<input type="checkbox"/> I (Report #) _____	<input type="checkbox"/> R																																																					
<input type="checkbox"/> W	<input type="checkbox"/> P/R																																																					
<input type="checkbox"/> P	<input checked="" type="checkbox"/> Q																																																					
<input type="checkbox"/> M	<input type="checkbox"/> T																																																					
<input type="checkbox"/> Small Quantity	<input type="checkbox"/> Field Tested Material																																																					
New*	Previous	Estimate	Pay Note	Link (opt.)																																																		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____																																																		
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____																																																		
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____																																																		
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____																																																		
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____																																																		
<input type="checkbox"/> No QPL																																																						
<input checked="" type="checkbox"/> QPL - Approved																																																						
<input type="checkbox"/> QPL - Qualified																																																						
QPL # _____ 3470																																																						
QPL # _____																																																						
QPL # _____																																																						
QPL # _____																																																						
Future QPL # _____																																																						

**Quantity Data**

Previous Quantity	0.000	EACH	<input type="checkbox"/> Remeasurement	20220817
Quantity This Note	81.000 (+ or -)		<input checked="" type="checkbox"/> Measured in Place Method	20220817
Total Quantity to Date	81.000		<input type="checkbox"/> Partial Payment	Item Completion Date
Calculations and/or Remarks			<input type="checkbox"/> Material on Hand (see Material on Hand page below)	

<p>Contractors approved Unit of Measure, Each, valued each Type 7 delineator at \$560.00          Total delineators installed this note (see below for location) 81 ea          Total dollar amount \$45360.00          Bid Item value \$59920.00          Measure of bid item to be paid this note \$45360.00, pay this amount</p>	<p><input type="checkbox"/> No Quality Documentation Required</p> <p><input type="checkbox"/> Photos Attached</p> <p><input type="checkbox"/> Illustration Attached</p>
---	---

**Reviewed by**

Len Saltekoff	08/29/2022	Len Saltekoff	08/29/2022
Quality Checked by	Date	Quantity Checked by	Date







**Pay Note (New Field Inspection)  
(Project Work Record)**

NW Oregon (Southern Portion) curve warning upgrades

0190

06

01

15313

Project Name

Bid/Pay Item

Estimate

Pay Note

Contract

**Materials Delivered for this Project**

Delineator Type 7

Type of Material

20220817

Date Delivered

Knife River

Delivered to (Name of Contractor/Subcontractor)

Luciol Systems

Source of Material (Manufacturer or Fabricator)

0.00

Quantity Rejected

NA

Rejection explanation/reason

107.00

Quantity Delivered

EACH

Unit

107.00

Quantity Received

On Site

Where inspected

81.00

Total Accepted to Date

107.00

Estimated Total Required

Bryce Cunningham

Inspector Name

52216

Cert. #

Installed according to Oregon Specification Book 2021, section 00840.10, adhering to Linear Delineator Detail BA02. Material brought out was new and in good condition.

Remarks

**Materials Delivered for this Project**

Type of Material

Date Delivered

Delivered to (Name of Contractor/Subcontractor)

Source of Material (Manufacturer or Fabricator)

Quantity Rejected

Rejection explanation/reason

Quantity Delivered

Unit

Quantity Received

Where inspected

Total Accepted to Date

Estimated Total Required

Inspector Name

Cert. #

Remarks

**Materials Delivered for this Project**

Type of Material

Date Delivered

Delivered to (Name of Contractor/Subcontractor)

Source of Material (Manufacturer or Fabricator)

Quantity Rejected

Rejection explanation/reason

Quantity Delivered

Unit

Quantity Received

Where inspected

Total Accepted to Date

Estimated Total Required

Inspector Name

Cert. #

Remarks



# **Rip Rap Example**



**Pay Note  
(Project Work Record)**

**Project Information**

US20: Ward-Hamby Rd. Intersection	CON04447	011	06	01	C15305
<small>Project Name</small>	<small>EA</small>	<small>Subjob</small>	<small>Estimate</small>	<small>Pay Note</small>	<small>Contract</small>
Loose Riprap, Class 50	0320	William Martin		Stephanie Ness	
<small>Item Description</small>	<small>Bid/Pay Item</small>	<small>Resident Engineer</small>		<small>Prepared by</small>	

**Method of Quality Assurance**

<p align="center"><b>Quality Documentation*</b></p> <table border="0" style="width:100%;"> <tr> <td><input type="checkbox"/> E</td> <td><input type="checkbox"/> O</td> </tr> <tr> <td><input type="checkbox"/> L (Report #) _____</td> <td><input type="checkbox"/> BG</td> </tr> <tr> <td><input type="checkbox"/> I (Report #) _____</td> <td><input type="checkbox"/> R</td> </tr> <tr> <td><input type="checkbox"/> W</td> <td><input type="checkbox"/> P/R</td> </tr> <tr> <td><input type="checkbox"/> P</td> <td><input type="checkbox"/> Q</td> </tr> <tr> <td><input type="checkbox"/> M</td> <td><input type="checkbox"/> T</td> </tr> <tr> <td><input type="checkbox"/> Small Quantity</td> <td><input type="checkbox"/> Field Tested Material</td> </tr> </table> <p><small>*Click on letters for definitions.</small></p>	<input type="checkbox"/> E	<input type="checkbox"/> O	<input type="checkbox"/> L (Report #) _____	<input type="checkbox"/> BG	<input type="checkbox"/> I (Report #) _____	<input type="checkbox"/> R	<input type="checkbox"/> W	<input type="checkbox"/> P/R	<input type="checkbox"/> P	<input type="checkbox"/> Q	<input type="checkbox"/> M	<input type="checkbox"/> T	<input type="checkbox"/> Small Quantity	<input type="checkbox"/> Field Tested Material	<p align="center"><b>F - Field Inspection Report (FIR)</b></p> <table border="0" style="width:100%;"> <tr> <th style="text-align: left;">New*</th> <th style="text-align: left;">Previous</th> <th style="text-align: left;">Estimate</th> <th style="text-align: left;">Pay Note</th> <th style="text-align: left;">Link (opt.)</th> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> </table> <p><small>*Enter on New Field Inspection Information page below.</small></p>	New*	Previous	Estimate	Pay Note	Link (opt.)	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	<p align="center"><b>QPL</b></p> <p><input checked="" type="checkbox"/> No QPL</p> <p><input type="checkbox"/> QPL - Approved</p> <p><input type="checkbox"/> QPL - Qualified</p> <p>QPL # _____</p> <p>QPL # _____</p> <p>QPL # _____</p> <p>QPL # _____</p> <p>Future QPL # _____</p>
<input type="checkbox"/> E	<input type="checkbox"/> O																																													
<input type="checkbox"/> L (Report #) _____	<input type="checkbox"/> BG																																													
<input type="checkbox"/> I (Report #) _____	<input type="checkbox"/> R																																													
<input type="checkbox"/> W	<input type="checkbox"/> P/R																																													
<input type="checkbox"/> P	<input type="checkbox"/> Q																																													
<input type="checkbox"/> M	<input type="checkbox"/> T																																													
<input type="checkbox"/> Small Quantity	<input type="checkbox"/> Field Tested Material																																													
New*	Previous	Estimate	Pay Note	Link (opt.)																																										
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____																																										
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____																																										
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____																																										
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____																																										
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____																																										

**Quantity Data**

0.000	CUYD	<input type="checkbox"/> Remeasurement	20220429
<small>Previous Quantity</small>	<small>Unit</small>		<small>Installation Date</small>
15.300 (+ or -)		<input type="checkbox"/> Measured in Place Method	
<small>Quantity This Note</small>		<input checked="" type="checkbox"/> Partial Payment	
15.300		<input type="checkbox"/> Material on Hand (see Material on Hand page below)	<small>Item Completion Date</small>
<small>Total Quantity to Date</small>			

**Calculations and/or Remarks**

Contractor placed 15.3 CUYD of Loose Riprap per 00390.44(b) in the month of April.

Rip rap pads were visually inspected on site.

See below for locations, calculations, and quantities.

Pay 15.3 CUYD per 00390.90(c)

- No Quality Documentation Required     
  Photos Attached     
  Illustration Attached

**Reviewed by**

<small>Quality Checked by</small>	<small>Date</small>	<small>Quantity Checked by</small>	<small>Date</small>



# **Compost Erosion Blanket Example**



## Pay Note (Project Work Record)

### Project Information

I 205 Exit Ramps at Division St.	CON04379	011	15	03	15250
Project Name	EA	Subjob	Estimate No.	Pay Note No.	Contract No.
Compst Erosion Blanket	0330	Amer Hmidan	Brandon Ford		
Item Description	Bid/Pay Item No.	Resident Engineer	Prepared by		

### Method of Quality Assurance

No Quality Documentation Required

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

- |   |   |
|---|---|
| <input type="checkbox"/> E                | <input type="checkbox"/> O              |
| <input type="checkbox"/> L (Number) _____ | <input type="checkbox"/> BG             |
| <input type="checkbox"/> I (Number) _____ | <input type="checkbox"/> R              |
| <input type="checkbox"/> W                | <input checked="" type="checkbox"/> P/R |
| <input type="checkbox"/> P                | <input checked="" type="checkbox"/> Q   |
| <input type="checkbox"/> M                | <input checked="" type="checkbox"/> T   |
| <input type="checkbox"/> Small Quantity   |   |

#### F - Field Inspection Report (FIR)

Previously Submitted	New*	Estimate No.	Pay Note No.	Link
<input type="checkbox"/>	<input checked="" type="checkbox"/>	015	003	
<input type="checkbox"/>	<input type="checkbox"/>			
<input type="checkbox"/>	<input type="checkbox"/>			
<input type="checkbox"/>	<input type="checkbox"/>			

#### QPL

- No QPL
- QPL - Approved
- QPL - Qualified
- QPL No. \_\_\_\_\_
- QPL No. \_\_\_\_\_
- QPL No. \_\_\_\_\_
- QPL No. \_\_\_\_\_

\*Enter on New Field Tested Inspection Information Page below.

### Quantity Data

10286.86	SQYD	<input type="checkbox"/> Remeasurement	28-Mar-22
Previous Quantity	Unit		Installation Date
104.66	(+ or -)	<input checked="" type="checkbox"/> Measured in Place Method	
Quantity This Note		<input type="checkbox"/> Partial Payment	Bid Item Completion Date
10391.52		<input type="checkbox"/> Material on Hand	See Material on Hand Page below
Total Quantity to Date			

### Calculations and/or Remarks

104.66 sqyd of compost installed to button up project.

**Total: 104.66sqyd**

See marked up sheet attached.

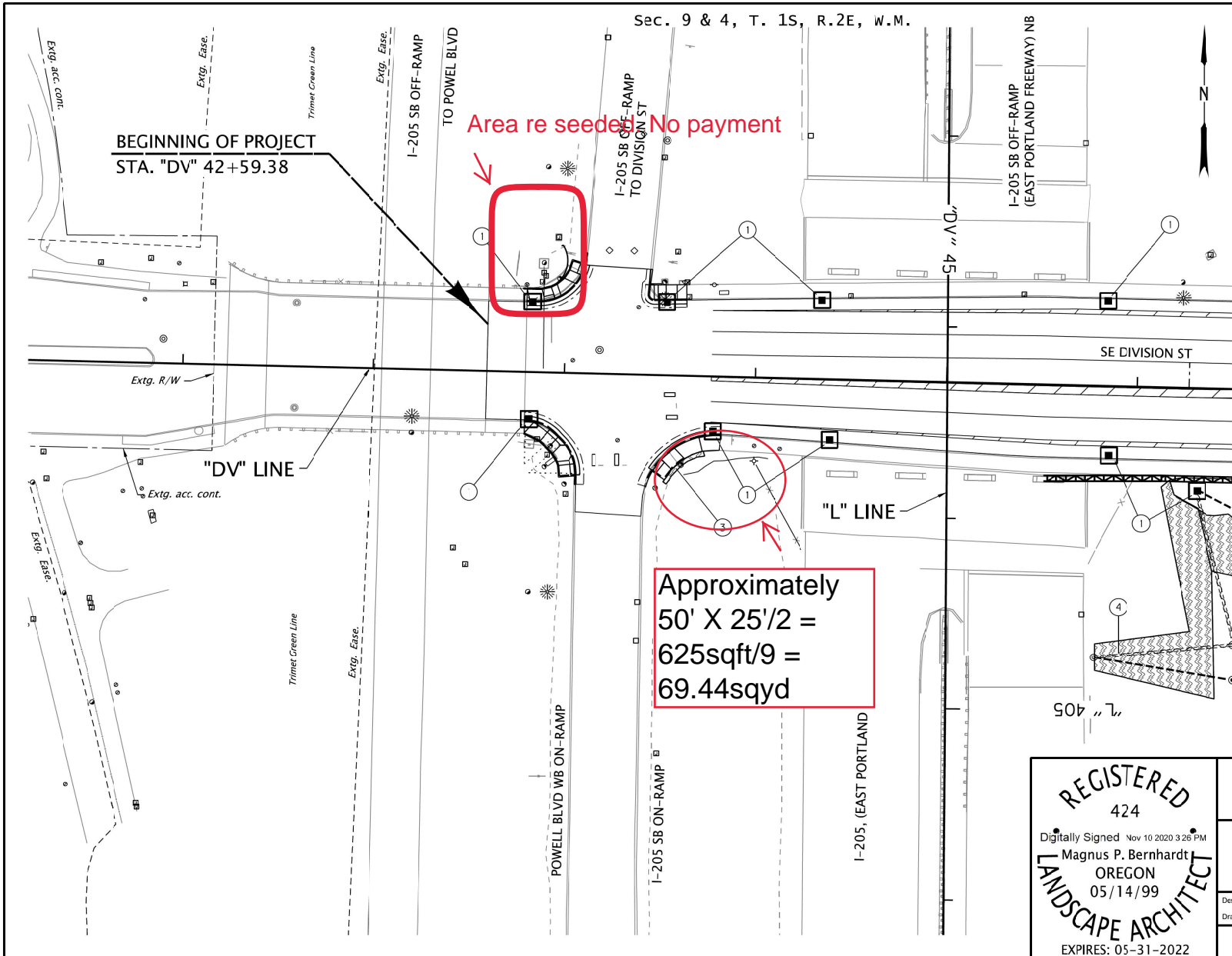
- Photos Attached
- Illustration Attached

### Reviewed by

Quality Checked by	Date
Quantity Checked by	Date



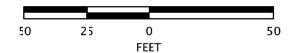




- ① Install inlet protection type 3 (filter fabric insert) (see RD1010)
- ② Install sediment barrier type 3 (fiber roll) (see RD1030)
- ③ Install compost erosion blanket and lawn seeding. (See sheet FA01 for detail)
- ④ Install compost erosion blanket and permanent seeding mix No. 1. (See sheet FA01 for detail)

LEGEND:

- Inlet protection
- Sediment barrier, straw wattle
- Compost erosion blanket and seeding
- Construction entrance
- Check dam



**REGISTERED**  
424  
Magnus P. Bernhardt  
OREGON  
05/14/99  
**LANDSCAPE ARCHITECT**

EXPIRES: 05-31-2022

OREGON DEPARTMENT  
OF TRANSPORTATION

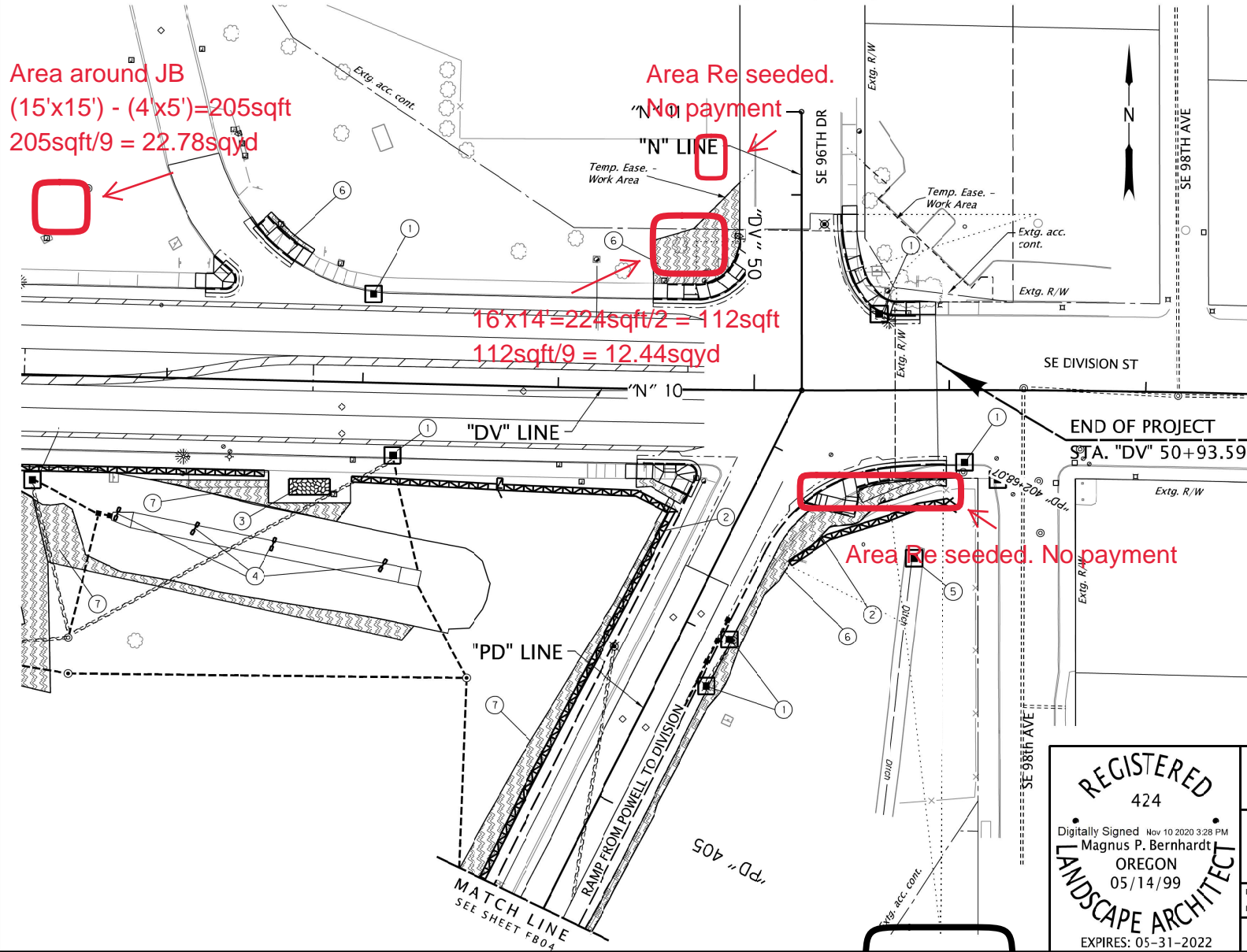
**I-205 EXIT RAMP AT SE DIVISION ST PROJ.**  
EAST PORTLAND FREEWAY  
MULTNOMAH COUNTY

Designer: Sarah Eastman      Reviewer: Robert Marshall  
Drafter: Larry Nichols      Checker: Anitha Vazrath

**EROSION AND SEDIMENT CONTROL**

SHEET NO.  
FB02

Sec. 9 & 4, T. 1S, R.2E, W.M.



- ① Install inlet protection type 3 (filter fabric insert) (see RD1010)
- ② Install sediment barrier type 3 (fiber roll) (see RD1030)
- ③ Install construction entrance type 3 (see RD1000)
- ④ Install check dam type 6 (compost filter sock) (see RD 1006)
- ⑤ Install inlet protection type 4 (bio-filter bag) (see RD 1015).
- ⑥ Install compost erosion blanket and lawn seeding. (See sheet FA01 for detail)
- ⑦ Install compost erosion blanket and permanent seeding mix No. 1. (See sheet FA01 for detail)

LEGEND:

- Inlet protection
- Sediment barrier, straw wattle
- Compost erosion blanket and seeding
- Construction entrance
- Check dam

50 25 0 50  
FEET

<p>REGISTERED 424 Magnus P. Bernhardt OREGON 05/14/99 LANDSCAPE ARCHITECT EXPIRES: 05-31-2022</p>	<p>OREGON DEPARTMENT OF TRANSPORTATION</p>
	<p>I-205 EXIT RAMP AT SE DIVISION ST PROJ. EAST PORTLAND FREEWAY MULTNOMAH COUNTY</p>
<p>Designer: Sarah Eastman  Drafter: Larry Nichols</p>	<p>Reviewer: Robert Marshall  Checker: Anitha Vazrath</p>
<p>EROSION AND SEDIMENT CONTROL</p>	<p>SHEET NO. FB03</p>

69.44sqyd + 22.78sqyd + 12.44sqyd = 104.66sqyd

# **Storm Sewer Pipe Example**



**Pay Note  
(Project Work Record)**

**Project Information**

<u>OR99W (Barbur Blvd) at SW Capitol Hwy Project</u> Project Name	<u>CON04417</u> EA	<u>011</u> Subjob	<u>04</u> Estimate	<u>01</u> Pay Note	<u>15287</u> Contract
<u>12 inch Storm Sewer Pipe, 5ft Depth</u> Item Description	<u>BI0410</u> Bid/Pay Item	<u>Christopher Aguon, P.E.</u> Resident Engineer	<u>Edwin Klaassen</u> Prepared by		

**Method of Quality Assurance**

Quality Documentation*	F - Field Inspection Report (FIR)	QPL																																			
<input type="checkbox"/> E <input type="checkbox"/> O <input type="checkbox"/> L (Report #) <input type="checkbox"/> BG <input type="checkbox"/> I (Report #) <input type="checkbox"/> R <input type="checkbox"/> W <input type="checkbox"/> P/R <input type="checkbox"/> P <input type="checkbox"/> Q <input type="checkbox"/> M <input type="checkbox"/> T <input type="checkbox"/> Small Quantity <input type="checkbox"/> Field Tested Material <small>*Click on letters for definitions.</small>	<table border="1"> <thead> <tr> <th>New*</th> <th>Previous</th> <th>Estimate</th> <th>Pay Note</th> <th>Link (opt.)</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td align="center"><u>004</u></td> <td align="center"><u>001</u></td> <td></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <small>*Enter on New Field Inspection Information page below.</small>	New*	Previous	Estimate	Pay Note	Link (opt.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>004</u>	<u>001</u>		<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>				<input checked="" type="checkbox"/> No QPL <input type="checkbox"/> QPL - Approved <input type="checkbox"/> QPL - Qualified QPL # _____ QPL # _____ QPL # _____ QPL # _____ Future QPL # _____
New*	Previous	Estimate	Pay Note	Link (opt.)																																	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>004</u>	<u>001</u>																																		
<input type="checkbox"/>	<input type="checkbox"/>																																				
<input type="checkbox"/>	<input type="checkbox"/>																																				
<input type="checkbox"/>	<input type="checkbox"/>																																				
<input type="checkbox"/>	<input type="checkbox"/>																																				
<input type="checkbox"/>	<input type="checkbox"/>																																				

**Quantity Data**

<u>0.000</u> Previous Quantity	<u>Ft</u> Unit	<input type="checkbox"/> Remeasurement	<u>2022.03.17</u> Installation Date
<u>76.010</u> (+ or -) Quantity This Note		<input checked="" type="checkbox"/> Measured in Place Method	<u>TBD</u> Item Completion Date
<u>76.010</u> Total Quantity to Date		<input type="checkbox"/> Partial Payment	
<b>Calculations and/or Remarks</b>		<input type="checkbox"/> Material on Hand (see Material on Hand page below)	

14 FT utilized at corner 08, NW Corner of Taylors Ferry and OR99W - Per Plans (02/22/2022)

6 FT required via plans, 8 FT accepted and approved by ODOT PM Office for broken existing pipe located at this corner (02/22/2022)

51.01 FT utilized at Corner 02, NE Corner of Capitol Hwy and OR99W - OR99W arm

11.0 FT utilized at Corner 02, NE Corner of Capitol Hwy and OR99W -Capitol arm

- No Quality Documentation Required     
  Photos Attached     
  Illustration Attached

**Reviewed by**

<u>Darcy Hessellgesser</u> Quality Checked by	<u>2020.02.28</u> Date	<u>Darcy Hessellgesser</u> Quantity Checked by	<u>2020.02.28</u> Date
--	---------------------------	---	---------------------------





**Pay Note (New Field Inspection)  
(Project Work Record)**

OR99W (Barbur Blvd) at SW Capitol Hwy Project	BI0410	04	01	15287
Project Name	Bid/Pay Item	Estimate	Pay Note	Contract

**Materials Delivered for this Project**

12" Storm Sewer Pipe	2022.02.18	Wildish Standard Paving, Co.		
Type of Material	Date Delivered	Delivered to (Name of Contractor/Subcontractor)		
Cascade Concrete Products	0.00	N/A		
Source of Material (Manufacturer or Fabricator)	Quantity Rejected	Rejection explanation/reason		
76.01	Ft	76.01	Station 119+36.9 "B" Line	
Quantity Delivered	Unit	Quantity Received	Where inspected	
76.01	72.00	Edwin Klaassen		
Total Accepted to Date	Estimated Total Required	Inspector Name		
		51095		
		Cert. #		

Concrete Pipe meets criteria set forth In Oregon Standard Specifications for Construction section 445

Remarks

**Materials Delivered for this Project**

Installation - 12" Storm Sewer Pipe	2022.02.18	Wildish Standard Paving, Co.		
Type of Material	Date Delivered	Delivered to (Name of Contractor/Subcontractor)		
Wildish Standard Paving, Co.	0.00	N/A		
Source of Material (Manufacturer or Fabricator)	Quantity Rejected	Rejection explanation/reason		
14.00	Ft	14.00	Cor 08, NW Corner Taylors Ferry @ OR99W	
Quantity Delivered	Unit	Quantity Received	Where inspected	
14.00	72.00	Edwin Klaassen		
Total Accepted to Date	Estimated Total Required	Inspector Name		
		51095		
		Cert. #		

12" Storm Sewer Pipe was installed per plans and Oregon Standard Specifications for Construction section 445

Remarks

**Materials Delivered for this Project**

Installation - 12" Storm Sewer Pipe	2022.03.17	Wildish Standard Paving, Co.		
Type of Material	Date Delivered	Delivered to (Name of Contractor/Subcontractor)		
Wildish Standard Paving, Co.	0.00	N/A		
Source of Material (Manufacturer or Fabricator)	Quantity Rejected	Rejection explanation/reason		
62.01	Ft	62.01	Cor 02, NE Corner Capitol Hwy @ OR99W	
Quantity Delivered	Unit	Quantity Received	Where inspected	
62.01	76.01	Edwin Klaassen		
Total Accepted to Date	Estimated Total Required	Inspector Name		
		51095		
		Cert. #		

12" Storm Sewer Pipe was installed per plans and Oregon Standard Specifications for Construction section 445

Remarks



# Culvert / Pipe Data Sheet

Print Form

## Project Information

OR99W (BARBURD BLVD) AT SW CAPITOL HWY PROJECT  
Project Name (Section)

15287  
Contract No. EA

CON04417

12" Concrete Storm Sewer

BI0410

11

Item Description

Item No.

Group No.

## Method of Quality Assurance (Agency Use Only)

Pipe Material

Class or Type:

### Supporting Data:

T - Test Certs

Q - Compliance Certs

No QPL

O - CMO

E - Equipment List & Drawing

F - FIR #

ODOT Lab Report No.

QPL Product No.

QPL - Approved

No Quality Documentation Required

Quality Documents Submitted with Pay Note

QPL - Qualified

Installed as Per Plans:  Yes  No

If No, why?

## Culvert Data (for Contractor Field Fit Verification)

C01A-C01B

19-24

12" CONCRETE

14.7

Plan Sheet No.

Note No.

Pipe Size

Pipe Length

<b>Inlet</b>	21.5	<input checked="" type="radio"/> Left	583.63
	Offset	<input type="radio"/> Right	F.L. Elevation
<b>C</b>	156+71.1		
Alignment	Station	Northing	Easting

<b>Outlet</b>	19.3	<input checked="" type="radio"/> Left	583.44
	Offset	<input type="radio"/> Right	F.L. Elevation
<b>C</b>	156+85.6		
Alignment	Station	Northing	Easting

14.7

Staked Length

.19

Total Fall

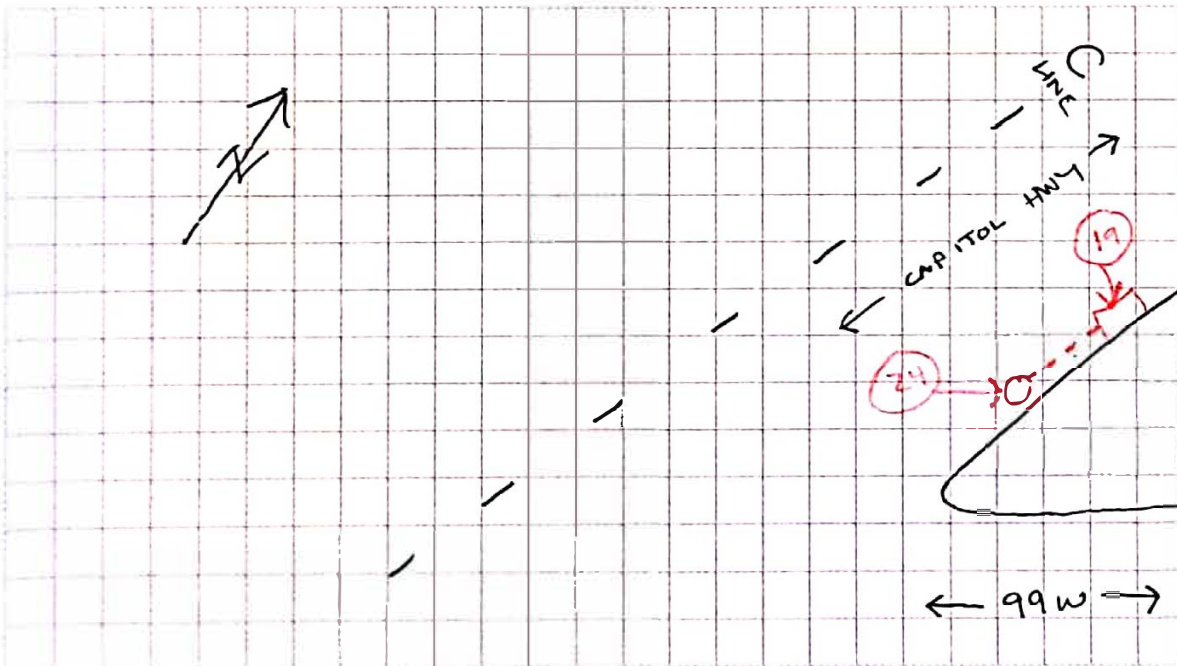
1.3

% Slope

3.16

Minimum Cover

Drawings / Remarks



See attached drawing

CDA SURVEY

Staked by

2/28/22

Date Staked

Agency Use Only

Installation Date

Pay Quantity

Unit

Re-measure

Measured in place

Partial payment

Edwin Klaassen

51095

03/17/2022

Item Complete:

Inspector Name

Cert#

Date

Yes

No

## For Office Use Only

Quantity Checked

Reviewed by

Date

Quantity This Note

Unit

Quality Checked

Reviewed by

Date

Estimate No.

Note No.

734-3247 (10-29-2018)

1 of 2





# Culvert / Pipe Data Sheet

Print Form

## Project Information

OR99W (BARBURD BLVD) AT SW CAPITOL HWY PROJECT

15287

CON04417

Project Name (Section)

Contract No.

EA

12" Concrete Storm Sewer Pipe

BI0410

11

Item Description

Item No.

Group No.

## Method of Quality Assurance (Agency Use Only)

12" Concrete Pipe

Pipe Material

Class or Type:

Supporting Data:

T - Test Certs

Q - Compliance Certs

No QPL

O - CMO

E - Equipment List & Drawing

F - FIR #

ODOT Lab Report No.

QPL Product No.

QPL - Approved

QPL - Qualified

No Quality Documentation Required

Quality Documents Submitted with Pay Note

Installed as Per Plans:  Yes  No

If No, why?

## Culvert Data (for Contractor Field Fit Verification)

C01A-C01B

23

12" CONCRETE

49

Plan Sheet No.

Note No.

Pipe Size

Pipe Length

<b>Inlet</b>	41.4	<input type="radio"/> Left	583.38	<b>Outlet</b>	41.4	<input type="radio"/> Left	583.13
	Offset		F.L. Elevation		Offset		F.L. Elevation
		<input checked="" type="radio"/> Right				<input checked="" type="radio"/> Right	
<b>B</b>	124+25.2			<b>B</b>	123+76.2		
Alignment	Station	Northing	Easting	Alignment	Station	Northing	Easting

49

Staked Length

.25

Total Fall

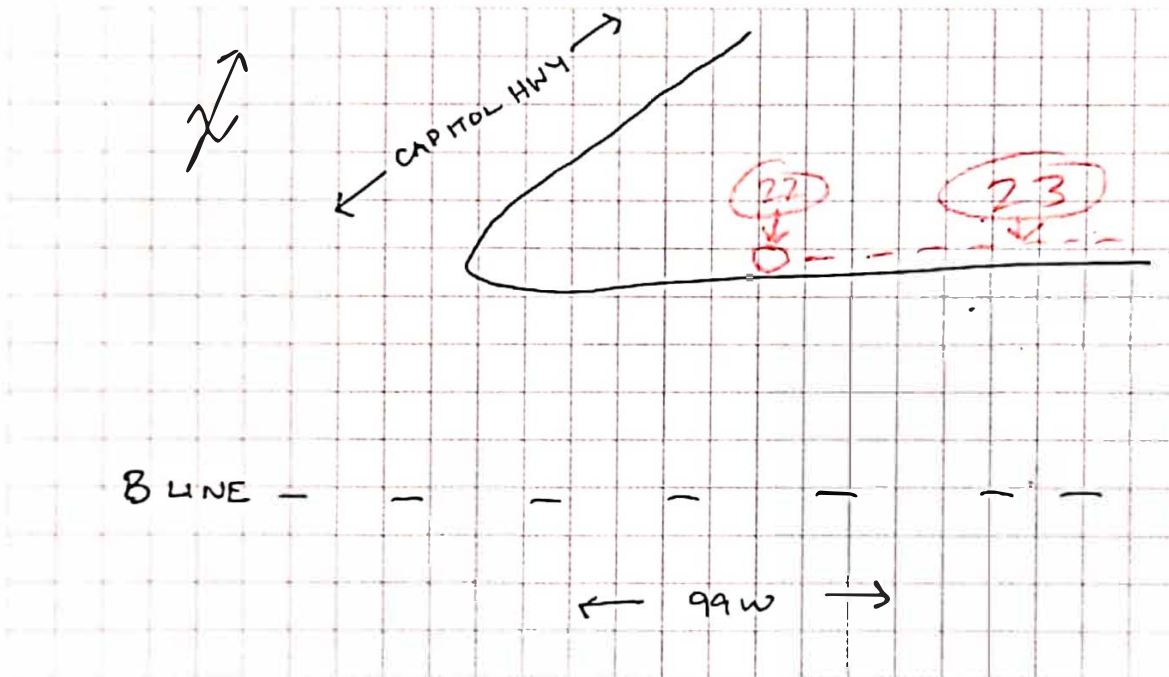
0.5

% Slope

3.19

Minimum Cover

Drawings / Remarks:



See attached drawing

CDA SURVEY

Staked by

2/28/22

Date Staked

Agency Use Only

Installation Date

Pay Quantity

Unit

Re-measure

Measured in place

Partial payment

Edwin Klaassen

51095

03/17/2022

Bid Item Complete:

Inspector Name

Cert#

Date

Yes

No

## For Office Use Only

Quantity Checked

Reviewed by

Date

Quantity This Note

Unit

Quality Checked

Reviewed by

Date

Estimate No.

Note No.

736-2247 (10-29-2018)

1 of 2



# Culvert / Pipe Data Sheet

Print Form

## Project Information

OR99W (BARBURD BLVD) AT SW CAPITOL HWY PROJECT  
 Project Name (Section) 12" Concrete Storm Sewer Pipe

15287  
 Contract No. EA CON04417

Item Description 12" Concrete Storm Sewer Pipe Item No. BIO410 Group No. 11

## Method of Quality Assurance (Agency Use Only)

Concrete storm sewer

Pipe Material \_\_\_\_\_ Class or Type: Concrete

Supporting Data:

T - Test Certs     Q - Compliance Certs     No QPL  
 O - CMO     E - Equipment List & Drawing     QPL - Approved  
 No Quality Documentation Required     Quality Documents Submitted with Pay Note     QPL - Qualified

Installed as Per Plans:  Yes     No    If No, why? \_\_\_\_\_

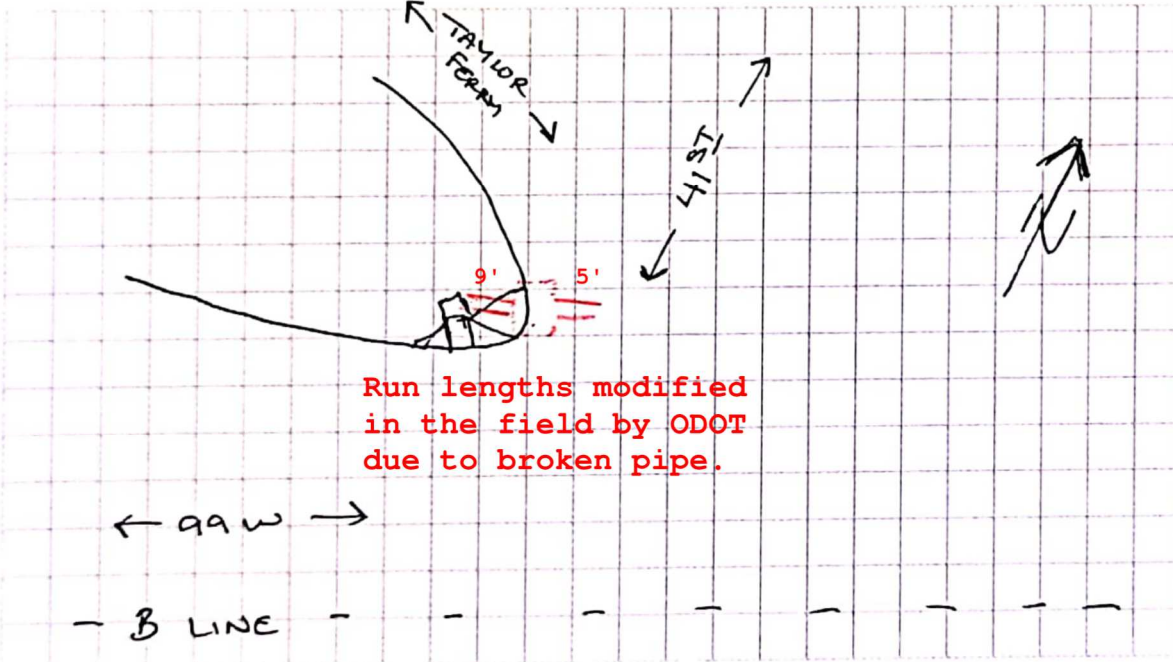
## Culvert Data (for Contractor Field Fit Verification)

CO2A-C02B    9    12" CONCRETE    14  
 Plan Sheet No.    Note No.    Pipe Size    Pipe Length

<b>Inlet</b> Offset _____ B    119+36.69 Alignment    Station    Northing    Easting				<input type="radio"/> Left    577.75 <input checked="" type="radio"/> Right    F.L. Elevation				<b>Outlet</b> Offset _____ Alignment    Station    Northing    Easting				<input type="radio"/> Left <input checked="" type="radio"/> Right    F.L. Elevation			
---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

14  
 Staked Length    Total Fall    % Slope    Minimum Cover

### Drawings / Remarks:



See attached drawing

CDA SURVEY  
 Staked by \_\_\_\_\_  
 NA  
 Date Staked \_\_\_\_\_

**Agency Use Only**

Installation Date \_\_\_\_\_

Pay Quantity    Unit

Re-measure  
 Measured in place  
 Partial payment

Edwin Klaassen    51095    03/17/2022    Bid Item Complete:  
 Inspector Name    Cert#    Date     Yes     No

### For Office Use Only

Quantity Checked    Reviewed by \_\_\_\_\_    Date \_\_\_\_\_    Quantity This Note    Unit \_\_\_\_\_

Quality Checked    Reviewed by \_\_\_\_\_    Date \_\_\_\_\_    Estimate No.    Note No. \_\_\_\_\_



# CERTIFICATE OF MATERIALS ORIGIN

PROJECT NAME (SECTION) Capitol Highway @ SW Barbur	CONTRACT NO. <b>15287</b>
---	------------------------------

BID ITEM NO. <b>0410</b>	BID ITEM NAME <b>12" RCP</b>
-----------------------------	---------------------------------

DOMESTIC MATERIALS SOURCE (NAME AND ADDRESS)		
<u>Engineered Wire Products</u> 505 Venture Dr. Las Cruces, NM 88007	<u>Davis Wire Corp</u> 19411 80th Ave South Kent, WA 98032	<u>Tree Inland Steel</u> 3880 West Valley Blvd. Walnut, CA 91789

DOMESTIC MATERIALS DESCRIPTION
W2 Steel Reinforcing Wire or Welded Wire Mesh

FOREIGN MATERIALS SOURCE INCLUDING MATERIAL OF UNKNOWN ORIGIN (NAME AND ADDRESS)

FOREIGN MATERIALS (OR OF UNKNOWN ORIGIN) DESCRIPTION AND VALUE OF IRON OR STEEL PRODUCT AS IT IS DELIVERED TO THE PROJECT

This certification is made for the purpose of establishing materials acceptance under the Contract Special Provisions titled 00160.20(a) Buy America. All iron or steel manufacturing processes, including protective coatings, for the domestic materials described above occurred within the United States of America.

Manufacturers' certificates verifying the origin of the above described domestic materials will be kept on file for three years following final payment. Copies will be furnished to the Engineer upon request.

I declare under penalty of perjury under Oregon and Federal laws that the foregoing is true and correct.

AUTHORIZED REPRESENTATIVE*	COMPANY* NAME AND ADDRESS:
NAME: <u>Tom Gianotti</u>	<b>Cascade Concrete Products, Inc.</b>
TITLE: <u>General Manager</u>	33475 NE Crownzellerbach Rd.
SIGNATURE: <u></u>	Scappoose, OR 97056
DATE: <u>3/8/2022</u>	

Submit a new certificate for subsequent shipments if any of the above information changes. \*May be Contractor, Sub-Contractor or supplier

## PL Search

### Information for Database Record No. 239908

Construction  
Home

**Spec No:** 02080.20

QPL Home

**Product Name:** SC MULTIPURPOSE GROUT

Do fresh  
search

**Product Name 2:**

**Category:** GROUT, NON-EPOXY

**Category 2:** NON-SHRINK

**Product Number:** 3494

**Type of List:** A

**Effective date:** 70909

**Manufacturer:** SPEC CHEM 913/371-8700

**Manuf. 2:** MASONS 800/537-3407WHITE CAP 800/456-7445

**Remarks:**

Version 1.0.4 April 23, 2015

Content maintained by [Mike Dunlap](#) | For programming, contact [ODOT Computer Support](#)

---

Oregon Department of Transportation  
355 Capitol St. NE  
Salem OR 97301-3871

# HDD-CCS PE45

## (DIRECTIONAL DRILLING)

Tracer Wire • Horizontal Directional Drilling Copper Clad Steel (HDD-CCS) • 21% IACS Conductivity • Corrosion Resistant High-Density, High Molecular Weight Polyethylene (HMWPE-HDPE) Insulation • Moisture, Chemical, and Oil Resistant Impact, Crush, and Abrasion Resistant • RoHS Compliant • Direct Burial Rated • 30 Volts

**“PRO-TRACE® HDD-CCS -- DIRECTIONAL BORING DONE RIGHT THE FIRST TIME -- EVERY TIME!”**



### Applications and Information

- **PRO-TRACE® HDD-CCS PE45** is also referred to as Extra High-Strength (EHS-CCS).
- **PRO-TRACE® HDD-CCS PE45** conductor is equal to copper in signal tracing performance for tracer wire applications not exceeding 30 Volts. Tracer wire is used to conductively locate buried utility lines for the gas, water, sewer, telecommunication, and electrical markets.
- **PRO-TRACE® HDD-CCS PE45** has almost **700%** the break load of copper, which allows 1 wire to be installed in critical installations like directional boring and pipe bursting.
- Has 2-4% elongation, providing the perfect balance between tensile strength, ductility, and decreasing brittleness. Higher elongation causes wire deformation in boring.
- Considerably lower in cost and great price stability compared to copper.
- RoHS Compliant and works with connectors you already use.

### Standards and References

**PRO-TRACE® HDD-CCS PE45** conductors meets or exceeds all applicable ASTM specifications, and requirements of the National Electrical Code.

- ASTM B869: Specification for 21% Conductivity, Hard Drawn, Copper-Clad Steel Wire
- ASTM B170: Specification for Oxygen-Free Electrolytic Copper
- ASTM D1248: Standard Specification for Polyethylene Plastics Extrusion Materials for Wire and Cable

### Construction

**PRO-TRACE® HDD-CCS PE45** is an extra high-strength, copper clad steel tracer wire. A high carbon steel core, metallurgically bonded with a copper cladding, that is uniform and continuous, creating a bi-metal conductor that acts as one and is corrosion resistant. The high break load allows only 1 conductor to be used in any tracer wire application while providing the perfect balance between break load, ductility, and decreasing brittleness. It is the best performing tracer wire on the market.

**PRO-TRACE® HDD-CCS PE45** is protected with a 45 mil, high-density, high molecular weight polyethylene (HDPE) insulation. HDPE provides an excellent balance of surface smoothness, processing ease and electrical consistency. HDPE insulation provides superior strength against underground elements that help prevent accidental breaks caused by rocks in shifting soil conditions.

### Specification Example

Tracer wire for directional boring installation shall be a 12 AWG solid, PRO-TRACE HDD-CCS PE45. Conductor shall be hard-drawn, 21% IACS, copper-clad steel, utilizing a AISI 1055 high carbon steel core with minimum break load of 1,330 lbs or 260,000 psi (required to meet break load). Conductor shall be extruded with a 45 mil, high density, high molecular weight polyethylene (HMW-HDPE) pursuant to ASTM D1248. Tracer wire shall be rated for direct burial use at 30 volts and RoHS compliant. Tracer wire shall be PRO-TRACE HDD-CCS PE45 as manufactured by **Pro-Line Safety Products**.

Specification Updated: 1.3.2017 15:10:00 CST

PRO-TRACE® is a registered trademark of Pro-Line Safety Products Co.

[www.prolinesafety.com](http://www.prolinesafety.com)

**TABLE 1: CONDUCTOR (Physical, Mechanical and Electrical Properties)**

PROPERTY	14 AWG	12 AWG	10 AWG	8 AWG	6 AWG 7x7
Conductor Type	HDD-CCS	HDD-CCS	HDD-CCS	HDD-CCS	HDD-CCS
Conductor Temper	Hard-Drawn	Hard-Drawn	Hard-Drawn	Hard-Drawn	Hard-Drawn
Steel Grade	AISI 1065	AISI 1055	AISI 1055	AISI 1065	AISI 1065
Copper Grade	UNS C10200	UNS C10200	UNS C10200	UNS C10200	UNS C10200
Rated Break Load (Minimum)	855 lbs	1,330 lbs	1,940 lbs	2,785 lbs	4,705 lbs
Rated Tensile Strength (Minimum)	265,000 psi	260,000 psi	238,000 psi	215,000 psi	252,000 psi
Elongation (ASTM B869)	≥ 1.0%	≥ 1.0%	≥ 1.0%	≥ 1.0%	≥ 1.0%
Nominal Copper Thickness (% of Diameter)	3.0%	3.0%	3.0%	3.0%	3.0%
Nominal Copper Weight (Per 1,000')	13.0%	13.0%	13.0%	13.0%	13%
Nominal DC Resistance	12.024 ohms	7.562 ohms	4.756 ohms	2.991 ohms	

**TABLE 2: INSULATION & PRINTING (Physical, Mechanical and Electrical Properties)**

TEST DESCRIPTION	ASTM STANDARD	TYPICAL VALUES
Density @ 23°C	ASTM D1505	0.945 g/cm <sup>3</sup>
Melt Flow Rate	ASTM D1238	0.70 g/10 min
Tensile Strength	ASTM D638	3,400 psi
Tensile Strength Retention	ASTM D638	90% after 48 hours @ 100°C
Tensile Elongation	ASTM D638	500%
Tensile Elongation Retention	ASTM D638	90% after 48 hours @ 100°C
Environmental Stress Cracking	ASTM D1693	0 failures @ 48 hours
Thermal Stress Cracking	ASTM D2951	0 failures @ 96 hours
Brittleness Temperature	ASTM D746	-76°C
Melting Temperature	ASTM D3418	260°C
Oxidative Induction Time	ASTM D3895	170 min @ 200°C
Dielectric Constant	ASTM D1531	2.32 @ 1 MHz
Dissipation Factor	ASTM D1531	0.00006 @ 1 MHz
DC Volume Resistivity @ 23°C	ASTM D257	> 1 x 10 <sup>15</sup> ohm-cm

**TABLE 3: ORDERING INFORMATION (Weights, Measurements, and Packaging)**

PRODUCT PART NO.	PRODUCT DESCRIPTION	RATED BREAK LOAD	RATED TENSILE STRENGTH	HDPE INSULATION THICKNESS	NOMINAL O.D.	APPROX. WEIGHT PER 1,000 FT		STANDARD PACKAGES
						CCS WEIGHT	FINISHED WEIGHT	
<b>PRO-TRACE HDD-CCS PE45 TRACER WIRE - DIRECTIONAL DRILLING and PIPE BURSTING</b>								
74642.XXXX	14 AWG HDD-CCS PE45	855 lbs	265,000 psi	0.045"	0.154"	11.1800	19.00	**NEW - CALL US
74642.XXXX	12 AWG HDD-CCS PE45	1,330 lbs	260,000 psi	0.045"	0.171"	17.7644	27.00	500' / 1000' / 2500'
74643.XXXX	10 AWG HDD-CCS PE45	1,940 lbs	238,000 psi	0.045"	0.192"	28.2537	40.00	500' / 1000' / 2500'
74644.XXXX	8 AWG HDD-CCS PE45	2,785 lbs	215,000 psi	0.045"	0.219"	44.9297	58.00	500' / 1000' / 2500'
74666.XXXX	6 STR 7x7 HDD-CCS PE60	4,705 lbs	252,000 psi	0.060"	0.324"	81.80	104.00	**NEW - CALL US

PRO-TRACE® • 12 AWG SOLID HDD-CCS • 45 MIL HDPE • DIRECTIONAL DRILLING TRACER WIRE (1,330 LBS) • 30V • DIRECT BURIAL • CAUTION GAS LINE BELOW

INSULATION COLOR AND REEL SIZE				REEL AND PACKAGING INFORMATION					
COLOR	500' REEL	1000' REEL	2500' REEL	SIZE	LENGTH	MATERIAL	REEL DIMENSION	ARBOR HOLE	PALLET QUANTITY
BLACK	0132	0141	0147	12 AWG	500	PLYWOOD or PLASTIC	8" x 6"	1.5"	108,000 FT
BLUE	0232	0241	0247		1000	PLYWOOD or PLASTIC	12" x 6"	1.5"	112,000 FT
BROWN	0332	0341	0347		2500	PLYWOOD or PLASTIC	12" x 12"	1.5"	120,000 FT
GREEN	0532	0541	0547	10 AWG	500	PLYWOOD or PLASTIC	8" x 9"	1.5"	72,000 FT
ORANGE	0632	0641	0647		1000	PLYWOOD or PLASTIC	12" x 6"	1.5"	64,000 FT
PURPLE	0832	0841	0847		2500	PLYWOOD or PLASTIC	16" x 10"	1.5"	67,500 FT
RED	0932	0941	0947	8 AWG	500	PLYWOOD or PLASTIC	12" x 6"	1.5"	48,000 FT
WHITE	1132	1141	1147		1000	PLYWOOD or PLASTIC	12" x 9"	1.5"	48,000 FT
YELLOW	1232	1241	1247		2500	PLYWOOD or PLASTIC	16" x 12"	1.5"	45,000 FT

\*\*\* Some colors and sizes may be subject to mins \*\*\*

\*\*\* Custom length reels are available upon request, some restrictions may apply \*\*\*

\*\*\* Bulk reels up to 60,000' are available, some restrictions may apply \*\*\*

# **Cold Plane Concrete Pavement (Grinding) Example**



## Pay Note (Project Work Record)

### Project Information

US101: JOHNSON AVE. INTERSECTIONS PROJECT	CON04240	000	06	01	C15213
Project Name	EA	Subjob	Estimate No.	Pay Note No.	Contract No.
Cold Plane Pavement Removal, 2 Inches Deep	0470	Don Duey		Chris Ball	
Item Description	Bid/Pay Item No.	Resident Engineer		Prepared by	

### Method of Quality Assurance

No Quality Documentation Required

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

- |   |                              |
|---|------------------------------|
| <input type="checkbox"/> E                | <input type="checkbox"/> O   |
| <input type="checkbox"/> L (Number) _____ | <input type="checkbox"/> BG  |
| <input type="checkbox"/> I (Number) _____ | <input type="checkbox"/> R   |
| <input type="checkbox"/> W                | <input type="checkbox"/> P/R |
| <input type="checkbox"/> P                | <input type="checkbox"/> Q   |
| <input type="checkbox"/> M                | <input type="checkbox"/> T   |
| <input type="checkbox"/> Small Quantity   |                              |

#### F - Field Inspection Report (FIR)

New*	Previously Submitted	Estimate No.	Pay Note No.	Link
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____

\*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

Previous Quantity	SQYD	12-Jul-21
Unit		Installation Date
6049.21 (+ or -)		12-Jul-21
Quantity This Note		Bid Item/Pay Item Completion Date
6049.21		See Material on Hand Page below
Total Quantity to Date		

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

### Calculations and/or Remarks

See Attached Sheets for Quantaties

Sheet  
 A = 3026.66 SQYD  
 B = 2744.22 SQYD  
 C = 278.33 SQYD

**Pay 6049.21 sqyd**

**Est06 Note01 LK**

Note: Over quantity due to Job sight extensions and extra grinding to taper road to be ADA compliant as the road approaches the ramps.

- Photos Attached
- Illustration Attached

### Reviewed by

S. Church	8/6/21
Quality Checked by	Date
Quantity Checked by	Date



C15213 Johnson Ave  
Johnson Ave Sections  
Sta

Sta	Length (Ft)	Width (Ft)	SQFT
"J"6+46 to "J"6+06	40	55	2200
"J"6+06 to "J"5+26	80	56	4480
"J"5+26 to "J"4+66	60	57	3420
"J"4+66 to "J"4+46	20	56	1120
"J"3+95 to "J"3+75	20	55	1100
"J"3+75 to "J"3+55	20	54	1080
"J"3+55 to "J"2+35	120	56	6720
"J"2+35 to "J"2+15	20	54	1080
"J"2+15 to "J"2+00	15	52	780
"J"1+18 to "J"0+78	40	47	1880
"J"0+78 to "J"0+58	20	48	960
"J"0+58 to "J"0+38	20	47	940
"J"0+38 to "J"0+18	20	44	880
"J"0+18 to "J"0+03	15	40	600

27240 SQFT / 9 = 3026.66 sqyd

C15213 Johnson Ave

US101 NB&amp;SB

Sta	Length (Ft)	Width (Ft)	SQFT
"SB"22+37 to "SB"22+57	20	58	1160
"SB"22+57 to "SB"22+77	20	59	1180
"SB"22+77 to "SB"22+97	20	62	1240
"SB"22+97 to "SB"23+17	20	77	1540
"SB"23+17 to "SB"23+37	20	88	1760
"SB"23+37 to "SB"23+57	20	73	1460
"SB"23+57 to "SB"23+77	20	68	1360
"SB"23+77 to "SB"23+97	20	69	1380
"SB"23+97 to "SB"24+17	20	81	1620
"SB"24+17 to "SB"24+37	20	102	2040
"SB"24+37 to "SB"24+53	16	104	1664
"NB"80+27to"NB"79+87	40	46	1840
"NB"79+87to"NB"79+67	20	45	900
"NB"79+67to"NB"79+47	20	56	1120
"NB"79+47to"NB"79+07	40	59	2360
"NB"79+07to"NB"78+87	20	38	760
"NB"78+87to"NB"78+67	20	37	740
"NB"78+67to"NB"78+47	14	41	574

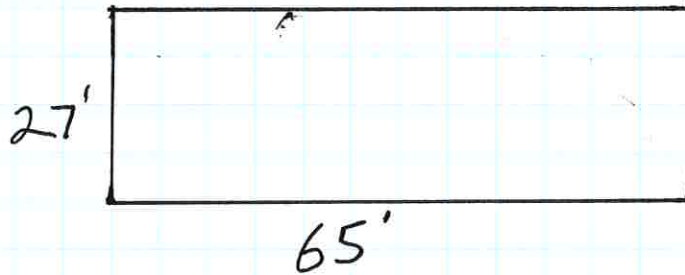
24698 SQFT /9 =

2744.22 sqyd

Calculations for: Extra for 6" grind

Made by: \_\_\_\_\_ 20 \_\_\_\_\_ Checked by: \_\_\_\_\_ 20 \_\_\_\_\_ Backchecked by: \_\_\_\_\_ 20 \_\_\_\_\_

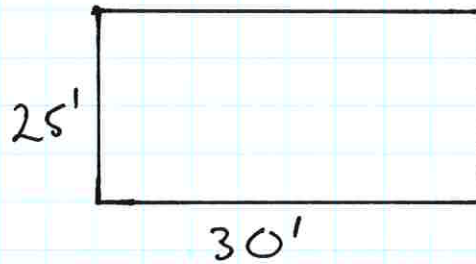
US101 "SB" 22+90 to "SB" 23+55



$$27' \times 65' = 1755 \text{ SQFT}$$

$$1755 \text{ SQFT} / 9 = 195 \text{ SQYD}$$

Johnson Ave "J" 1+05 to J 1+35



$$25' \times 30' = 750 \text{ SQFT} / 9 = 83.33 \text{ SQYD}$$

$$83.33 + 195 = 278.33$$

# **Aggregate Base Example**



# Pay Note (Project Work Record)

## Project Information

OR99: I-5 to Scenic Ave Project Name	CON04572 EA	011 Subjob	02 Estimate	02 Pay Note	C15409 Contract
AGG BASE Item Description	0610 Bid/Pay Item	Tim Fletcher Resident Engineer		Patrick Renfrew Prepared by	

## Method of Quality Assurance

Quality Documentation*	F - Field Inspection Report (FIR) Tracking	QPL																																			
<input type="checkbox"/> E <input type="checkbox"/> O <input type="checkbox"/> L (Report #) _____ <input type="checkbox"/> BG <input type="checkbox"/> I (Report #) _____ <input type="checkbox"/> R <input type="checkbox"/> W <input type="checkbox"/> P/R <input type="checkbox"/> P <input type="checkbox"/> Q <input type="checkbox"/> M <input type="checkbox"/> T <input type="checkbox"/> Small Quantity <input type="checkbox"/> Field Tested Material	<table border="1"> <thead> <tr> <th>New*</th> <th>Previous</th> <th>Estimate</th> <th>Pay Note</th> <th>Link (opt.)</th> </tr> </thead> <tbody> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>_____</td><td>_____</td><td>_____</td></tr> </tbody> </table> <p>*This box is not the FIR - New Field Inspection page(s) must be completed!</p>	New*	Previous	Estimate	Pay Note	Link (opt.)	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	<input checked="" type="checkbox"/> No QPL <input type="checkbox"/> QPL - Approved <input type="checkbox"/> QPL - Qualified  QPL # _____ QPL # _____ QPL # _____ QPL # _____ Future QPL # _____
New*	Previous	Estimate	Pay Note	Link (opt.)																																	
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____																																	
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____																																	
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____																																	
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____																																	
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____																																	
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____																																	
<small>*Click on letters for definitions.</small>																																					

## Quantity Data

44.500 Previous Quantity	TON Unit	<input type="checkbox"/> Remeasurement	20230118 Installation Date
199.870 (+ or -) Quantity This Note		<input checked="" type="checkbox"/> Measured in Place Method	_____ Item Completion Date
244.370 Total Quantity to Date		<input type="checkbox"/> Partial Payment	
<b>Calculations and/or Remarks</b>		<input type="checkbox"/> Material on Hand (see Material on Hand page below)	

See installation record for quantities.

No Quality Documentation Required     
 Photos Attached     
 Illustration Attached

## Reviewed by

_____ Quality Checked by	_____ Date	_____ Quantity Checked by	_____ Date
-----------------------------	---------------	------------------------------	---------------





# MATERIAL DELIVERY & YIELD CHECK SHEET

Page 1 of 1

PROJECT OR99 I-5 to Scenic Ave

CONTRACT 15409

DATE 1/3/2023

SOURCE Knife River Materials

BID ITEM 610

MATERIAL Aggregate Base

## MATERIAL DELIVERY

LOAD #	TICKET #	QUANTITY DELIVERED	LOCATION PLACED	TIME DELIVERED	REMARKS
1	14135419	17.71	78+97.9	12:22:00 PM	KRM MEDFORD 0421804 BT
2	14135422	15.37	79+16.0	12:33:00 PM	JESSE BAILEY 68 BOBTAIL
3	14135433	17.71	79+34.1	1:07:00 PM	KRM MEDFORD 0421804 BT
4	14135436	15.30	79+52.2	1:20:00 PM	JESSE BAILEY 68 BOBTAIL
5	14135440	17.32	79+70.3	1:32:00 PM	KRM MEDFORD 0421804 BT
6	14135447	17.76	79+88.4	1:57:00 PM	KRM MEDFORD 0421804 BT
7					
8					
9					
10					
<b>(A) Total</b>		101.17			

## (B) THEORETICAL YIELD CALC: $(\text{Width} \times \text{Length} \times (\text{Depth}/12) \times (\text{MAMD} \times \% \text{Comp.}/100) / 2000) = \text{TONS}$

WIDTH (Feet)	LENGTH (Feet)	DEPTH (Inches)	MAMD	% COMPACTION	THEORETICAL TONS

## (C) COMPARISON CALC: $(A/B) \times 100$      (D) % TOLERANCE CALC: $(100-C)$ (must be within +/- 10% tolerance)

Ten Load Yield (A)	
Theoretical Tons (B)	
Comparison (C)	
% Tolerance (D)	

**\* Initial here if yield calculations are not applicable due to irregular areas or lack of consistent placement**

Inspected by (Print Name) \_\_\_\_\_

Inspected by (Signature) \_\_\_\_\_

\_\_\_\_\_ Date

### OFFICE USE ONLY

Checked by (Print Name) \_\_\_\_\_

Checked by (Signature) \_\_\_\_\_

\_\_\_\_\_ Date

Quantity This Note \_\_\_\_\_

Pay Unit \_\_\_\_\_

Quality Checked

Estimate Number \_\_\_\_\_

Note No. \_\_\_\_\_

Quantity Checked



Southern Oregon Division  
3959 Hamrick Road  
Central Point, OR 97502  
(541) 770-2960

Ticket # 14135419

Copy 2 Customer

Sold To: OR99 TO SCENIC AVE 16221123

Order No: 17014 Cost Code: 30510 PO: \_\_\_\_\_

Hauler: KRM MEDFORD 0421804 BT Truck # KRM804BT

Material	Net Tons
<u>17014</u>	<u>17.71</u>

Weighmaster Shannon Stanfield

Received By \_\_\_\_\_

TERMS: Net 10th day of month following date of invoice. A late payment Service Charge of 1 1/2% per month will be charged on accounts 30 days past due from date of billing. This Service Charge is an Annual Percentage Rate of 18%. Minimum Service Charge \$1.00. In the event any account is not fully paid when due, Buyer agrees to pay upon demand all expenses and fees reasonably incurred in collecting the balance due, whether or not a legal action is filed. Such expenses shall include, but are not limited to, attorney fees and other professional fees incurred in the collection process. If legal action is instituted, Buyer shall be liable for all fees, costs, and expenses awarded by the trial court or by any appellate court.

		Pounds	Tons
1/3/23 12:22 pm			
171110 KIRTLAND SCALES			
3/4" - 0 CRUSHED ROCK			
Gross	62,940	31.47	
Tare	27,520	13.76	
Net	35,420	17.71	
Loads Today:	1		
Qty. Today:		17.71	
COMMENTS: OR99 TO SCENIC AVE			



Southern Oregon Division  
3959 Hamrick Road  
Central Point, OR 97502  
(541) 770-2960

Ticket # 14135422

Copy 3 Delivery

Sold To: OR99 TO SCENIC AVE 16221123

Order No: 17014 Cost Code: 30510 PO: \_\_\_\_\_

Hauler: JESSE BAILEY 68 BOBTAIL Truck # JESSE68BT

Material	Net Tons
<u>17014</u>	<u>15.37</u>

Weighmaster Shannon Stanfield

Received By \_\_\_\_\_

TERMS: Net 10th day of month following date of invoice. A late payment Service Charge of 1 1/2% per month will be charged on accounts 30 days past due from date of billing. This Service Charge is an Annual Percentage Rate of 18%. Minimum Service Charge \$1.00. In the event any account is not fully paid when due, Buyer agrees to pay upon demand all expenses and fees reasonably incurred in collecting the balance due, whether or not a legal action is filed. Such expenses shall include, but are not limited to, attorney fees and other professional fees incurred in the collection process. If legal action is instituted, Buyer shall be liable for all fees, costs, and expenses awarded by the trial court or by any appellate court.

		Pounds	Tons
1/3/23 12:33 pm			
171110 KIRTLAND SCALES			
3/4" - 0 CRUSHED ROCK			
Gross	55,480	27.74	
Tare	24,740	12.37	
Net	30,740	15.37	
Loads Today:	2		
Qty. Today:		33.08	
COMMENTS: OR99 TO SCENIC AVE			



Southern Oregon Division  
3959 Hamrick Road  
Central Point, OR 97502  
(541) 770-2960

Ticket # 14135433

Copy 2 Customer

Sold To: OR99 TO SCENIC AVE 16221123

Order No: 17014 Cost Code: 30510 PO: \_\_\_\_\_

Hauler: KRM MEDFORD 0421804 BT Truck # KRM804BT

Material	Net Tons
<u>17014</u>	<u>17.71</u>

Weighmaster Shannon Stanfield

Received By \_\_\_\_\_

TERMS: Net 10th day of month following date of invoice. A late payment Service Charge of 1 1/2% per month will be charged on accounts 30 days past due from date of billing. This Service Charge is an Annual Percentage Rate of 18%. Minimum Service Charge \$1.00. In the event any account is not fully paid when due, Buyer agrees to pay upon demand all expenses and fees reasonably incurred in collecting the balance due, whether or not a legal action is filed. Such expenses shall include, but are not limited to, attorney fees and other professional fees incurred in the collection process. If legal action is instituted, Buyer shall be liable for all fees, costs, and expenses awarded by the trial court or by any appellate court.

		Pounds	Tons
1/3/23 1:07 pm			
171110 KIRTLAND SCALES			
3/4" - 0 CRUSHED ROCK			
Gross	62,940	31.47	
Tare	27,520	13.76	
Net	35,420	17.71	
Loads Today:	3		
Qty. Today:		50.79	
COMMENTS: OR99 TO SCENIC AVE			





Southern Oregon Division  
3959 Hamrick Road  
Central Point, OR 97502  
(541) 770-2960

Ticket # 14135436

Copy 3 Delivery

Sold To: OR99 TO SCENIC AVE 16221123

Order No: 17014 Cost Code: 30510 PO: \_\_\_\_\_

Hauler: JESSE BAILEY 68 BOBTAIL Truck # JESSE68BT

Material	Net Tons
17014	15.30

Weighmaster Shannon Stanfield

Received By \_\_\_\_\_

TERMS: Net 10th day of month following date of invoice. A late payment Service Charge of 1 1/2% per month will be charged on accounts 30 days past due from date of billing. This Service Charge is an Annual Percentage Rate of 18%. Minimum Service Charge \$1.00. In the event any account is not fully paid when due, Buyer agrees to pay upon demand all expenses and fees reasonably incurred in collecting the balance due, whether or not a legal action is filed. Such expenses shall include, but are not limited to, attorney fees and other professional fees incurred in the collection process. If legal action is instituted, Buyer shall be liable for all fees, costs, and expenses awarded by the trial court or by any appellate court.

	Pounds	Tons
1/3/23 1:20 pm 171110 KIRTLAND SCALES 3/4" - 0 CRUSHED ROCK		
<b>Gross</b>	55,340	27.67
<b>Tare</b>	24,740	12.37
<b>Net</b>	30,600	15.30
<b>Loads Today:</b>	4	
<b>Qty. Today:</b>		66.09
<b>COMMENTS: OR99 TO SCENIC AVE</b>		



Southern Oregon Division  
3959 Hamrick Road  
Central Point, OR 97502  
(541) 770-2960

Ticket # 14135440

Copy 2 Customer

Sold To: OR99 TO SCENIC AVE 16221123

Order No: 17014 Cost Code: 30510 PO: \_\_\_\_\_

Hauler: KRM MEDFORD 0421804 BT Truck # KRM804BT

Material	Net Tons
17014	17.32

Weighmaster Shannon Stanfield

Received By \_\_\_\_\_

TERMS: Net 10th day of month following date of invoice. A late payment Service Charge of 1 1/2% per month will be charged on accounts 30 days past due from date of billing. This Service Charge is an Annual Percentage Rate of 18%. Minimum Service Charge \$1.00. In the event any account is not fully paid when due, Buyer agrees to pay upon demand all expenses and fees reasonably incurred in collecting the balance due, whether or not a legal action is filed. Such expenses shall include, but are not limited to, attorney fees and other professional fees incurred in the collection process. If legal action is instituted, Buyer shall be liable for all fees, costs, and expenses awarded by the trial court or by any appellate court.

	Pounds	Tons
1/3/23 1:32 pm 171110 KIRTLAND SCALES 3/4" - 0 CRUSHED ROCK		
<b>Gross</b>	62,160	31.08
<b>Tare</b>	27,520	13.76
<b>Net</b>	34,640	17.32
<b>Loads Today:</b>	5	
<b>Qty. Today:</b>		83.41
<b>COMMENTS: OR99 TO SCENIC AVE</b>		



Southern Oregon Division  
3959 Hamrick Road  
Central Point, OR 97502  
(541) 770-2960

Ticket # 14135447

Copy 2 Customer

Sold To: OR99 TO SCENIC AVE 16221123

Order No: 17014 Cost Code: 30510 PO: \_\_\_\_\_

Hauler: KRM MEDFORD 0421804 BT Truck # KRM804BT

Material	Net Tons
17014	17.76

Weighmaster Shannon Stanfield

Received By \_\_\_\_\_

TERMS: Net 10th day of month following date of invoice. A late payment Service Charge of 1 1/2% per month will be charged on accounts 30 days past due from date of billing. This Service Charge is an Annual Percentage Rate of 18%. Minimum Service Charge \$1.00. In the event any account is not fully paid when due, Buyer agrees to pay upon demand all expenses and fees reasonably incurred in collecting the balance due, whether or not a legal action is filed. Such expenses shall include, but are not limited to, attorney fees and other professional fees incurred in the collection process. If legal action is instituted, Buyer shall be liable for all fees, costs, and expenses awarded by the trial court or by any appellate court.

	Pounds	Tons
1/3/23 1:57 pm 171110 KIRTLAND SCALES 3/4" - 0 CRUSHED ROCK		
<b>Gross</b>	63,040	31.52
<b>Tare</b>	27,520	13.76
<b>Net</b>	35,520	17.76
<b>Loads Today:</b>	6	
<b>Qty. Today:</b>		101.17
<b>COMMENTS: OR99 TO SCENIC AVE</b>		

**PROJECT:** OR99 I-5 to Scenic Ave  
**CONTRACT:** C15409  
**BID ITEM:** 610.00

**DATE PLACED:** 1/3/2023  
**DAILY TOTAL =** 101.17 TONS

**PREPARED BY:** Patrick Renfrew  
**DATE:** 1/26/2023

- SCALE CERTS
- 00190.20(f)(3)
- TARE SHEETS
- PRE-DETERMINED TARE

Aggregate Bas: **Base Course**

**NOTE: TALLY 1 = CONTRACTOR/INSPECTOR RUNNING TOTAL, TALLY 2 NOT REQUIRED.**

LOAD NO.	TONS PLACED	TALLY 1	LOAD NO.	TONS PLACED	TALLY 2
1	17.71	17.71	1		0.00
2	15.37	33.08	2		0.00
3	17.71	50.79	3		0.00
4	15.30	66.09	4		0.00
5	17.32	83.41	5		0.00
6	17.76	101.17	6		0.00
7		101.17	7		0.00
8		101.17	8		0.00
9		101.17	9		0.00
10		101.17	10		0.00
11		101.17	11		0.00
12		101.17	12		0.00
13		101.17	13		0.00
14		101.17	14		0.00
15		101.17	15		0.00
16		101.17	16		0.00
17		101.17	17		0.00
18		101.17	18		0.00
19		101.17	19		0.00
20		101.17	20		0.00
21		101.17	21		0.00
22		101.17	22		0.00
23		101.17	23		0.00
24		101.17	24		0.00
25		101.17	25		0.00
26		101.17	26		0.00
27		101.17	27		0.00
28		101.17	28		0.00
29		101.17	29		0.00
30		101.17	30		0.00
31		101.17	31		0.00
32		101.17	32		0.00
33		101.17	33		0.00
34		101.17	34		0.00
35		101.17	35		0.00
36		101.17	36		0.00
37		101.17	37		0.00
38		101.17	38		0.00



# MATERIAL DELIVERY & YIELD CHECK SHEET

Page 1 of 1

PROJECT OR99 I-5 to Scenic Ave

CONTRACT 15409

DATE 1/4/2023

SOURCE Knife River Materials

BID ITEM 610

MATERIAL Aggregate Base

## MATERIAL DELIVERY

LOAD #	TICKET #	QUANTITY DELIVERED	LOCATION PLACED	TIME DELIVERED	REMARKS
1	14135533	16.00	80+06.5	11:10:00 AM	JESSE BAILEY 68 BOBTAIL
2	14135547	17.45	80+24.6	11:50:00 AM	KRM MEDFORD 0421804 BT
3	14135549	15.54	80+42.7	12:03:00 PM	JESSE BAILEY 68 BOBTAIL
4	14135560	16.15	80+60.8	1:08:00 PM	KRM MEDFORD 0421804 BT
5	14135561	15.88	80+78.9	1:12:00 PM	JESSE BAILEY 68 BOBTAIL
6					
7					
8					
9					
10					
<b>(A) Total</b>		<b>81.02</b>			

## (B) THEORETICAL YIELD CALC: (Width x Length x (Depth/12) x (MAMD \* %Comp./100) / 2000) = TONS

WIDTH (Feet)	LENGTH (Feet)	DEPTH (Inches)	MAMD	% COMPACTION	THEORETICAL TONS

## (C) COMPARISON CALC: (A/B) X 100      (D) % TOLERANCE CALC: (100-C) (must be within +/- 10% tolerance)

Ten Load Yield (A)	
Theoretical Tons (B)	
Comparison (C)	
% Tolerance (D)	

**\* Initial here if yield calculations are not applicable due to irregular areas or lack of consistent placement**

Inspected by (Print Name) \_\_\_\_\_

Inspected by (Signature) \_\_\_\_\_

\_\_\_\_\_ Date

### OFFICE USE ONLY

Checked by (Print Name) \_\_\_\_\_

Checked by (Signature) \_\_\_\_\_

\_\_\_\_\_ Date

Quantity This Note \_\_\_\_\_

Pay Unit \_\_\_\_\_

Quality Checked

Estimate Number \_\_\_\_\_

Note No. \_\_\_\_\_

Quantity Checked



Southern Oregon Division  
3959 Hamrick Road  
Central Point, OR 97502  
(541) 770-2960

Ticket # 14135533

Copy 3 Delivery

Sold To: OR99 TO SCENIC AVE 16221123

Order No: 17014 Cost Code: 30510 PO: \_\_\_\_\_

Hauler: JESSE BAILEY 68 BOBTAIL Truck # JESSE68BT

Material	Net Tons
17014	16.00

Weighmaster Shannon Stanfield

Received By \_\_\_\_\_

TERMS: Net 10th day of month following date of invoice. A late payment Service Charge of 1 1/2% per month will be charged on accounts 30 days past due from date of billing. This Service Charge is an Annual Percentage Rate of 18%. Minimum Service Charge \$1.00. In the event any account is not fully paid when due, Buyer agrees to pay upon demand all expenses and fees reasonably incurred in collecting the balance due, whether or not a legal action is filed. Such expenses shall include, but are not limited to, attorney fees and other professional fees incurred in the collection process. If legal action is instituted, Buyer shall be liable for all fees, costs, and expenses awarded by the trial court or by any appellate court.

		Pounds	Tons
1/4/23 11:10 am			
171110 KIRTLAND SCALES			
3/4" - 0 CRUSHED ROCK			
Gross		57,000	28.50
Tare		25,000	12.50
Net		32,000	16.00
Loads Today:	1		
Qty. Today:			16.00
COMMENTS: OR99 TO SCENIC AVE			



Southern Oregon Division  
3959 Hamrick Road  
Central Point, OR 97502  
(541) 770-2960

Ticket # 14135547

Copy 3 Delivery

Sold To: OR99 TO SCENIC AVE 16221123

Order No: 17014 Cost Code: 30510 PO: \_\_\_\_\_

Hauler: KRM MEDFORD 0421804 BT Truck # KRM804BT

Material	Net Tons
17014	17.45

Weighmaster Shannon Stanfield

Received By \_\_\_\_\_

TERMS: Net 10th day of month following date of invoice. A late payment Service Charge of 1 1/2% per month will be charged on accounts 30 days past due from date of billing. This Service Charge is an Annual Percentage Rate of 18%. Minimum Service Charge \$1.00. In the event any account is not fully paid when due, Buyer agrees to pay upon demand all expenses and fees reasonably incurred in collecting the balance due, whether or not a legal action is filed. Such expenses shall include, but are not limited to, attorney fees and other professional fees incurred in the collection process. If legal action is instituted, Buyer shall be liable for all fees, costs, and expenses awarded by the trial court or by any appellate court.

		Pounds	Tons
1/4/23 11:50 am			
171110 KIRTLAND SCALES			
3/4" - 0 CRUSHED ROCK			
Gross		62,420	31.21
Tare		27,520	13.76
Net		34,900	17.45
Loads Today:	2		
Qty. Today:			33.45
COMMENTS: OR99 TO SCENIC AVE			



Southern Oregon Division  
3959 Hamrick Road  
Central Point, OR 97502  
(541) 770-2960

Ticket # 14135549

Copy 3 Delivery

Sold To: OR99 TO SCENIC AVE 16221123

Order No: 17014 Cost Code: 30510 PO: \_\_\_\_\_

Hauler: JESSE BAILEY 68 BOBTAIL Truck # JESSE68BT

Material	Net Tons
17014	15.54

Weighmaster Shannon Stanfield

Received By \_\_\_\_\_

TERMS: Net 10th day of month following date of invoice. A late payment Service Charge of 1 1/2% per month will be charged on accounts 30 days past due from date of billing. This Service Charge is an Annual Percentage Rate of 18%. Minimum Service Charge \$1.00. In the event any account is not fully paid when due, Buyer agrees to pay upon demand all expenses and fees reasonably incurred in collecting the balance due, whether or not a legal action is filed. Such expenses shall include, but are not limited to, attorney fees and other professional fees incurred in the collection process. If legal action is instituted, Buyer shall be liable for all fees, costs, and expenses awarded by the trial court or by any appellate court.

		Pounds	Tons
1/4/23 12:03 pm			
171110 KIRTLAND SCALES			
3/4" - 0 CRUSHED ROCK			
Gross		56,140	28.07
Tare		25,060	12.53
Net		31,080	15.54
Loads Today:	3		
Qty. Today:			48.99
COMMENTS: OR99 TO SCENIC AVE			



Southern Oregon Division  
 3959 Hamrick Road  
 Central Point, OR 97502  
 (541) 770-2960

Ticket # **14135560**

Copy 3 Delivery

Sold To: OR99 TO SCENIC AVE 16221123

Order No: 17014 Cost Code: 30510 PO: \_\_\_\_\_

Hauler: KRM MEDFORD 0421804 BT Truck # KRM804BT

Material	Net Tons
<u>17014</u>	<u>16.15</u>

Weighmaster Shannon Stanfield

Received By \_\_\_\_\_

TERMS: Net 10th day of month following date of invoice. A late payment Service Charge of 1 1/2% per month will be charged on accounts 30 days past due from date of billing. This Service Charge is an Annual Percentage Rate of 18%. Minimum Service Charge \$1.00. In the event any account is not fully paid when due, Buyer agrees to pay upon demand all expenses and fees reasonably incurred in collecting the balance due, whether or not a legal action is filed. Such expenses shall include, but are not limited to, attorney fees and other professional fees incurred in the collection process. If legal action is instituted, Buyer shall be liable for all fees, costs, and expenses awarded by the trial court or by any appellate court.

1/4/23	1:08 pm		
171110 KIRTLAND SCALES 3/4" - 0 CRUSHED ROCK			
		<b>Pounds</b>	<b>Tons</b>
<b>Gross</b>		59,660	29.83
<b>Tare</b>		27,360	13.68
<b>Net</b>		32,300	16.15
<b>Loads Today:</b>	<b>4</b>		
<b>Qty. Today:</b>			<b>65.14</b>
<b>COMMENTS: OR99 TO SCENIC AVE</b>			



Southern Oregon Division  
 3959 Hamrick Road  
 Central Point, OR 97502  
 (541) 770-2960

Ticket # **14135561**

Copy 3 Delivery

Sold To: OR99 TO SCENIC AVE 16221123

Order No: 17014 Cost Code: 30510 PO: \_\_\_\_\_

Hauler: JESSE BAILEY 68 BOBTAIL Truck # JESSE68BT

Material	Net Tons
<u>17014</u>	<u>15.88</u>

Weighmaster Shannon Stanfield

Received By \_\_\_\_\_

TERMS: Net 10th day of month following date of invoice. A late payment Service Charge of 1 1/2% per month will be charged on accounts 30 days past due from date of billing. This Service Charge is an Annual Percentage Rate of 18%. Minimum Service Charge \$1.00. In the event any account is not fully paid when due, Buyer agrees to pay upon demand all expenses and fees reasonably incurred in collecting the balance due, whether or not a legal action is filed. Such expenses shall include, but are not limited to, attorney fees and other professional fees incurred in the collection process. If legal action is instituted, Buyer shall be liable for all fees, costs, and expenses awarded by the trial court or by any appellate court.

1/4/23	1:12 pm		
171110 KIRTLAND SCALES 3/4" - 0 CRUSHED ROCK			
		<b>Pounds</b>	<b>Tons</b>
<b>Gross</b>		56,820	28.41
<b>Tare</b>		25,060	12.53
<b>Net</b>		31,760	15.88
<b>Loads Today:</b>	<b>5</b>		
<b>Qty. Today:</b>			<b>81.02</b>
<b>COMMENTS: OR99 TO SCENIC AVE</b>			

**PROJECT:** OR99 I-5 to Scenic Ave  
**CONTRACT:** C15409  
**BID ITEM:** 610.00

**DATE PLACED:** 1/4/2023  
**DAILY TOTAL =** 81.02 TONS

**PREPARED BY:** Patrick Renfrew  
**DATE:** 1/26/2023

- SCALE CERTS
- 00190.20(f)(3)
- TARE SHEETS
- PRE-DETERMINED TARE

Aggregate Bas **Base Course**

**NOTE: TALLY 1 = CONTRACTOR/INSPECTOR RUNNING TOTAL, TALLY 2 NOT REQUIRED.**

LOAD NO.	TONS PLACED	TALLY 1	LOAD NO.	TONS PLACED	TALLY 2
1	16.00	16.00	1		0.00
2	17.45	33.45	2		0.00
3	15.54	48.99	3		0.00
4	16.15	65.14	4		0.00
5	15.88	81.02	5		0.00
6		81.02	6		0.00
7		81.02	7		0.00
8		81.02	8		0.00
9		81.02	9		0.00
10		81.02	10		0.00
11		81.02	11		0.00
12		81.02	12		0.00
13		81.02	13		0.00
14		81.02	14		0.00
15		81.02	15		0.00
16		81.02	16		0.00
17		81.02	17		0.00
18		81.02	18		0.00
19		81.02	19		0.00
20		81.02	20		0.00
21		81.02	21		0.00
22		81.02	22		0.00
23		81.02	23		0.00
24		81.02	24		0.00
25		81.02	25		0.00
26		81.02	26		0.00
27		81.02	27		0.00
28		81.02	28		0.00
29		81.02	29		0.00
30		81.02	30		0.00
31		81.02	31		0.00
32		81.02	32		0.00
33		81.02	33		0.00
34		81.02	34		0.00
35		81.02	35		0.00
36		81.02	36		0.00
37		81.02	37		0.00
38		81.02	38		0.00



# MATERIAL DELIVERY & YIELD CHECK SHEET

Page 1 of 1

PROJECT OR99 I-5 to Scenic Ave

CONTRACT 15409

DATE 1/18/2023

SOURCE Knife River Materials

BID ITEM 610

MATERIAL Aggregate Base

## MATERIAL DELIVERY

LOAD #	TICKET #	QUANTITY DELIVERED	LOCATION PLACED	TIME DELIVERED	REMARKS
1	14136540	17.68	80+97.0	10:47:00 AM	KRM MEDFORD 0421805 BT
2					
3					
4					
5					
6					
7					
8					
9					
10					
<b>(A) Total</b>		17.68			

## (B) THEORETICAL YIELD CALC: (Width x Length x (Depth/12) x (MAMD \* %Comp./100) / 2000) = TONS

WIDTH (Feet)	LENGTH (Feet)	DEPTH (Inches)	MAMD	% COMPACTION	THEORETICAL TONS

## (C) COMPARISON CALC: (A/B) X 100      (D) % TOLERANCE CALC: (100-C) (must be within +/- 10% tolerance)

Ten Load Yield (A)	
Theoretical Tons (B)	
Comparison (C)	
% Tolerance (D)	

**\* Initial here if yield calculations are not applicable due to irregular areas or lack of consistent placement**

Inspected by (Print Name) \_\_\_\_\_

Inspected by (Signature) \_\_\_\_\_

\_\_\_\_\_ Date

### OFFICE USE ONLY

Checked by (Print Name) \_\_\_\_\_

Checked by (Signature) \_\_\_\_\_

\_\_\_\_\_ Date

Quantity This Note \_\_\_\_\_

Pay Unit \_\_\_\_\_

Quality Checked

Estimate Number \_\_\_\_\_

Note No. \_\_\_\_\_

Quantity Checked



3959 Hamrick Road  
Central Point, OR 97502  
(541) 770-2960

Ticket # 14136540  
Copy 3 Delivery

Sold To: OR99 TO SCENIC AVE 16221123

Order No: 17014 Cost Code: 30510 PO: \_\_\_\_\_

Hauler: KRM MEDFORD 0421805 BT Truck # KRM805BT

Material	Net Tons
<u>17014</u>	<u>17.68</u>

Weighmaster Shannon Stanfield

Received By \_\_\_\_\_

TERMS: Net 10th day of month following date of invoice. A late payment Service Charge of 1 1/2% per month will be charged on accounts 30 days past due from date of billing. This Service Charge is an Annual Percentage Rate of 18%. Minimum Service Charge \$1.00. In the event any account is not fully paid when due, Buyer agrees to pay upon demand all expenses and fees reasonably incurred in collecting the balance due, whether or not a legal action is filed. Such expenses shall include, but are not limited to, attorney fees and other professional fees incurred in the collection process. If legal action is instituted, Buyer shall be liable for all fees, costs, and expenses awarded by the trial court or by any appellate court.

	Pounds	Tons
1/18/23 10:47 am		
171110 KIRTLAND SCALES		
3/4" - 0 CRUSHED ROCK		
<b>Gross</b>	62,660	31.33
<b>Tare</b>	27,300	13.65
<b>Net</b>	35,360	17.68
<b>Loads Today:</b>	1	
<b>Qty. Today:</b>		17.68
<b>COMMENTS: OR99 TO SCENIC AVE</b>		



**PROJECT:** OR99 I-5 to Scenic Ave  
**CONTRACT:** C15409  
**BID ITEM:** 610.00

**DATE PLACED:** 1/18/2023  
**DAILY TOTAL =** 17.68 TONS

**PREPARED BY:** Patrick Renfrew  
**DATE:** 1/26/2023

- SCALE CERTS
- 00190.20(f)(3)
- TARE SHEETS
- PRE-DETERMINED TARE

Aggregate Bas **Base Course**

**NOTE: TALLY 1 = CONTRACTOR/INSPECTOR RUNNING TOTAL, TALLY 2 NOT REQUIRED.**

LOAD NO.	TONS PLACED	TALLY 1	LOAD NO.	TONS PLACED	TALLY 2
1	17.68	17.68	1		0.00
2		17.68	2		0.00
3		17.68	3		0.00
4		17.68	4		0.00
5		17.68	5		0.00
6		17.68	6		0.00
7		17.68	7		0.00
8		17.68	8		0.00
9		17.68	9		0.00
10		17.68	10		0.00
11		17.68	11		0.00
12		17.68	12		0.00
13		17.68	13		0.00
14		17.68	14		0.00
15		17.68	15		0.00
16		17.68	16		0.00
17		17.68	17		0.00
18		17.68	18		0.00
19		17.68	19		0.00
20		17.68	20		0.00
21		17.68	21		0.00
22		17.68	22		0.00
23		17.68	23		0.00
24		17.68	24		0.00
25		17.68	25		0.00
26		17.68	26		0.00
27		17.68	27		0.00
28		17.68	28		0.00
29		17.68	29		0.00
30		17.68	30		0.00
31		17.68	31		0.00
32		17.68	32		0.00
33		17.68	33		0.00
34		17.68	34		0.00
35		17.68	35		0.00
36		17.68	36		0.00
37		17.68	37		0.00
38		17.68	38		0.00

# **ACP Mixture (Paving)**

## **Example**



# Pay Note (Project Work Record)

## Project Information

C15347 - US20: 53rd Ave - East of 60th Ave. (Sweet Home)	CON04499	011	04	01	15347
Project Name	EA	Subjob	Estimate	Pay Note	Contract
Level 3, 1/2" ACP Mixture	0540	Steven Schultz	Josh Gann		
Item Description	Bid/Pay Item	Resident Engineer	Prepared by		

## Method of Quality Assurance

Quality Documentation*	F - Field Inspection Report (FIR) Tracking	QPL																																			
<input type="checkbox"/> E <input type="checkbox"/> L (Report #) _____ <input type="checkbox"/> I (Report #) _____ <input type="checkbox"/> W <input type="checkbox"/> P <input type="checkbox"/> M <input type="checkbox"/> Small Quantity	<table border="1"> <thead> <tr> <th>New*</th> <th>Previous</th> <th>Estimate</th> <th>Pay Note</th> <th>Link (opt.)</th> </tr> </thead> <tbody> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>_____</td><td>_____</td><td>_____</td></tr> </tbody> </table> <p>*This box is not the FIR - New Field Inspection page(s) must be completed!</p>	New*	Previous	Estimate	Pay Note	Link (opt.)	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	<input type="checkbox"/> No QPL <input type="checkbox"/> QPL - Approved <input type="checkbox"/> QPL - Qualified QPL # _____ QPL # _____ QPL # _____ QPL # _____ Future QPL # _____
New*	Previous	Estimate	Pay Note	Link (opt.)																																	
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____																																	
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____																																	
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____																																	
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____																																	
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____																																	
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____																																	
<input type="checkbox"/> O <input type="checkbox"/> BG <input type="checkbox"/> R <input type="checkbox"/> P/R <input type="checkbox"/> Q <input type="checkbox"/> T <input checked="" type="checkbox"/> Field Tested Material																																					

\*Click on letters for definitions.

## Quantity Data

0.000	Ton	<input type="checkbox"/> Remeasurement	9/27/22-9/28/22
Previous Quantity	Unit	<input checked="" type="checkbox"/> Measured in Place Method	Installation Date
490.260 (+ or -)		<input type="checkbox"/> Partial Payment	Item Completion Date
Quantity This Note		<input type="checkbox"/> Material on Hand (see Material on Hand page below)	
490.260			
Total Quantity to Date			

## Calculations and/or Remarks

- No Quality Documentation Required
  Photos Attached
  Illustration Attached

## Reviewed by

Len Saltekoff	10/11/2022	Len Saltekoff	10/11/2022
Quality Checked by	Date	Quantity Checked by	Date





Pay Note (New Field Inspection)
(Project Work Record)

C15347 - US20: 53rd Ave - East of 60th Ave. (Sweet Home)

0540

04

01

15347

Project Name

Bid/Pay Item

Estimate

Pay Note

Contract

Materials Delivered for this Project

Level 3, 1/2" ACP

Type of Material

9/27-9/28

Date Delivered

Knife River

Delivered to (Name of Contractor/Subcontractor)

Knife River

Source of Material (Manufacturer or Fabricator)

0.00

Quantity Rejected

Rejection explanation/reason

490.26

Ton

490.26

Quantity Delivered

Unit

Quantity Received

Field Tested

Where inspected

490.26

Total Accepted to Date

769.00

Estimated Total Required

Josh Gann

Inspector Name

49593

Cert. #

Remarks

Materials Delivered for this Project

Type of Material

Date Delivered

Delivered to (Name of Contractor/Subcontractor)

Source of Material (Manufacturer or Fabricator)

Quantity Rejected

Rejection explanation/reason

Quantity Delivered

Unit

Quantity Received

Where inspected

Total Accepted to Date

Estimated Total Required

Inspector Name

Cert. #

Remarks

Materials Delivered for this Project

Type of Material

Date Delivered

Delivered to (Name of Contractor/Subcontractor)

Source of Material (Manufacturer or Fabricator)

Quantity Rejected

Rejection explanation/reason

Quantity Delivered

Unit

Quantity Received

Where inspected

Total Accepted to Date

Estimated Total Required

Inspector Name

Cert. #

Remarks

Tickets Start	88070214	COUNT #			COUNT #			COUNT #		
		1	2		1	2		1	2	
Tickets End	88070244	LOAD	Ton	Ton	LOAD	Ton	Ton	LOAD	Ton	Ton
UNIT =	Ton	1	17.37		55			109		
TOTAL 1 =	245.45	2	17.43		56			110		
TOTAL 2 =	0.00	3	17.58		57			111		
Contract #	C15347	4	14.85		58			112		
<u>PROJECT</u>		5	14.99		59			113		
US20: 53rd Ave - East of 60th		6	15.15		60			114		
Ave. (Sweet Home)		7	17.20		61			115		
<u>CONTRACTOR</u>		8	17.43		62			116		
Emery and Sons Construction		9	16.85		63			117		
Group LLC		10	14.56		64			118		
BI#	540	11	15.09		65			119		
<u>MATERIAL</u>		12	14.76		66			120		
Level 3, 1/2" ACP		13	17.33		67			121		
<u>DATE</u>		14	17.42		68			122		
9/27/2022		15	17.44		69			123		
<u>LOCATION</u>		16			70			124		
"L" 1674+10 (56th) - 1684+00.		17			71			125		
Left of CL. 2 Base lifts and top		18			72			126		
lift		19			73			127		
<i>Josh Gann</i>		20			74			128		
9-29-22		21			75			129		
		22			76			130		
		23			77			131		
		24			78			132		
		25			79			133		
		26			80			134		
		27			81			135		
		28			82			136		
		29			83			137		
		30			84			138		
		31			85			139		
		32			86			140		
		33			87			141		
		34			88			142		
		35			89			143		
		36			90			144		
		37			91			145		
		38			92			146		
		39			93			147		
		40			94			148		
		41			95			149		
		42			96			150		
		43			97			151		
		44			98			152		
		45			99			153		
		46			100			154		
		47			101			155		
		48			102			156		
		49			103			157		
		50			104			158		
		51			105			159		
		52			106			160		
		53			107			161		
		54			108			162		



# MATERIAL DELIVERY & YIELD CHECK SHEET

PROJECT	US20: 53th Ave - East of 60th Ave. (Sweet Ho	CONTRACT	C15347
DATE	9/27/2022	SOURCE	Knife River
BID ITEM	540	MATERIAL	Level 3, 1/2" ACP

MATERIAL DELIVERY						
LOAD #	TICKET #	QUANTITY DELIVERED	LOCATION PLACED	TIME DELIVERED	CUMULATIVE DELIVERED	REMARKS (Width)
1	214	17.37	Base1	8:00 AM	17.37	56th Ave. - 1679+01
2	215	17.43	Base1	8:15 AM	34.80	56th Ave. - 1679+01
3	216	17.58	Base2	9:00 AM	52.38	56th Ave. - 1679+01
4	217	14.85	Base1	9:30 AM	67.23	1679+01 - Bridge
5	218	14.99	Base1	10:00 AM	82.22	1679+01 - Bridge
6	219	15.15	Base1	10:30 AM	97.37	Bridge - 1681+38
7	226	17.20	Base2	11:30 AM	114.57	1679+01 - Bridge
8	228	17.43	Base2	12:00 PM	132.00	Bridge - 1681+38
9	229	16.85	Top	12:30 PM	148.85	56th Ave. - 1679+01
10	231	14.56	Top	12:45 PM	163.41	1679+01 - Bridge
<b>(A) Total</b>		163.41				

**(B) THEORETICAL YIELD CALC: (Width x Length x (Depth/12) x (MAMD \* %Comp./100) / 2000) = TONS**

WIDTH (Ft)	LENGTH (Ft)	DEPTH (In)	MAMD	% COMPACTION	THEORETICAL TONS

**(C) COMPARISON CALC: (A/B) X 100      (D) % TOLERANCE CALC: (100-C) (expected tolerance to be within +/- 10.0%)**

Ten Load Yield (A)	163.41	JG	<b>* Initial here if yield calculations are not applicable due to irregular areas or lack of consistent placement</b>
Theoretical Tons (B)			
Comparison (C)			
% Tolerance (D)			
When +/- 10.0% tolerance is exceeded, verify Depth, Width, and Length, then MAMD and Compaction. Notify Contractor of unsatisfactory yield that needs adjustment. Continue checking yields.			

**DAILY THEORETICAL YIELD CALCULATION ( expected tolerance to be within +/- 10.0%)**  
 ( Avg Width x Overall Length x (Avg Depth/12) x (MAMD \* Avg %Comp./100) / 2000) = TONS

WIDTH (Ft)	LENGTH (Ft)	DEPTH (In)	MAMD	% COMPACTION	THEORETICAL TONS	TOLERANCE

Josh Gann	<i>Josh Gann</i>	9-27-22
Inspected by (Print Name)	Inspected by (Signature)	Date

**OFFICE USE ONLY**

Checked by (Print Name)	Checked by (Signature)	Date
Quantity This Note	Pay Unit	<input type="checkbox"/> Quality Checked
Estimate Number	Note No.	<input type="checkbox"/> Quantity Checked



# MATERIAL DELIVERY & YIELD CHECK SHEET

PROJECT	US20: 53th Ave - East of 60th Ave. (Sweet Hd	CONTRACT	C15347
DATE	9/27/2022	SOURCE	Knife River
BID ITEM	540	MATERIAL	Level 3, 1/2" ACP

LOAD #	TICKET #	QUANTITY DELIVERED	LOCATION PLACED	TIME DELIVERED	CUMULATIVE DELIVERED	REMARKS (Width)
11	233	15.09	Top	1:00 PM	178.50	1679+01 - Bridge
12	236	14.76	Top	1:30 PM	193.26	Bridge - 1681+38
13	240	17.33	Base1	2:00 PM	210.59	1681+38 - 1684+00
14	243	17.42	Base2	2:30 PM	228.01	1681+38 - 1684+00
15	244	17.44	Top	3:30 PM	245.45	1681+38 - 1684+00
16					245.45	
17					245.45	
18					245.45	
19					245.45	
20					245.45	
	Subtotal	82.04	Running Total		245.45	

Yield	Width	Length	Depth	MAMD	% Comp	Theoretical Tons	Tolerance
10-Load							
Running							

LOAD #	TICKET #	QUANTITY DELIVERED	LOCATION PLACED	TIME DELIVERED	CUMULATIVE DELIVERED	REMARKS (Width)
21					245.45	
22					245.45	
23					245.45	
24					245.45	
25					245.45	
26					245.45	
27					245.45	
28					245.45	
29					245.45	
30					245.45	
	Subtotal		Running Total		245.45	

Yield	Width	Length	Depth	MAMD	% Comp	Theoretical Tons	Tolerance
10-Load							
Running							



# HISTORY TICKET INQUIRY

BEGIN DATE	9/26/2022	LOCATION	240320
END DATE	9/29/2022	CUSTOMER	24224026
SELL/BUY/TRANS	ALL		
SHIP/RECEIVE	ALL		

<u>Ticket</u>	<u>Loc</u>	<u>Date</u>	<u>Time</u>	<u>Customer</u>	<u>Order</u>	<u>Product</u>	<u>Carrier</u>	<u>Vehicle</u>	<u>Qty</u>	<u>Unit</u>
88070214	24032	9/27/2022	7:02:47AM	US20: 53RD AV	123753	5009 - OR53D:	KNIFE RIVER	0421606	17.37	Ton
88070215	24032	9/27/2022	7:14:56AM	US20: 53RD AV	123753	5009 - OR53D:	KNIFE RIVER	0421803	17.43	Ton
88070216	24032	9/27/2022	7:31:34AM	US20: 53RD AV	123753	5009 - OR53D:	KNIFE RIVER	0421605	17.58	Ton
88070217	24032	9/27/2022	7:43:44AM	US20: 53RD AV	123753	5009 - OR53D:	OREGON OU1	TM55	14.85	Ton
88070218	24032	9/27/2022	7:55:44AM	US20: 53RD AV	123753	5009 - OR53D:	OREGON OU1	JC3	14.99	Ton
88070219	24032	9/27/2022	8:09:45AM	US20: 53RD AV	123753	5009 - OR53D:	OREGON OU1	SEC2	15.15	Ton
88070226	24032	9/27/2022	9:35:34AM	US20: 53RD AV	123753	5009 - OR53D:	KNIFE RIVER	0421606	17.20	Ton
88070228	24032	9/27/2022	10:06:53AM	US20: 53RD AV	123753	5009 - OR53D:	KNIFE RIVER	0421803	17.43	Ton
88070229	24032	9/27/2022	10:22:10AM	US20: 53RD AV	123753	5009 - OR53D:	KNIFE RIVER	0421605	16.85	Ton
88070231	24032	9/27/2022	10:45:43AM	US20: 53RD AV	123753	5009 - OR53D:	OREGON OU1	TM55	14.56	Ton
88070233	24032	9/27/2022	11:32:29AM	US20: 53RD AV	123753	5009 - OR53D:	OREGON OU1	JC3	15.09	Ton
88070236	24032	9/27/2022	12:25:46PM	US20: 53RD AV	123753	5009 - OR53D:	OREGON OU1	SEC2	14.76	Ton
88070240	24032	9/27/2022	1:04:44PM	US20: 53RD AV	123753	5009 - OR53D:	KNIFE RIVER	0421606	17.33	Ton
88070243	24032	9/27/2022	1:32:24PM	US20: 53RD AV	123753	5009 - OR53D:	KNIFE RIVER	0421803	17.42	Ton
88070244	24032	9/27/2022	1:39:37PM	US20: 53RD AV	123753	5009 - OR53D:	KNIFE RIVER	0421605	17.44	Ton
88070267	24032	9/28/2022	6:58:05AM	US20: 53RD AV	123753	5009 - OR53D:	KNIFE RIVER	0481902	17.27	Ton
88070268	24032	9/28/2022	7:21:42AM	US20: 53RD AV	123753	5009 - OR53D:	OREGON OU1	TM55	14.94	Ton
88070269	24032	9/28/2022	7:27:27AM	US20: 53RD AV	123753	5009 - OR53D:	OREGON OU1	JC3	14.90	Ton
88070270	24032	9/28/2022	7:44:03AM	US20: 53RD AV	123753	5009 - OR53D:	OREGON OU1	SEC4	13.93	Ton
88070271	24032	9/28/2022	8:26:53AM	US20: 53RD AV	123753	5009 - OR53D:	KNIFE RIVER	0480636	14.78	Ton
88070274	24032	9/28/2022	9:33:35AM	US20: 53RD AV	123753	5009 - OR53D:	KNIFE RIVER	0481902	17.23	Ton
88070279	24032	9/28/2022	10:11:12AM	US20: 53RD AV	123753	5009 - OR53D:	OREGON OU1	TM55	14.94	Ton
88070280	24032	9/28/2022	10:47:12AM	US20: 53RD AV	123753	5009 - OR53D:	OREGON OU1	JC3	14.72	Ton
88070281	24032	9/28/2022	10:51:50AM	US20: 53RD AV	123753	5009 - OR53D:	OREGON OU1	SEC4	13.92	Ton
88070283	24032	9/28/2022	11:05:44AM	US20: 53RD AV	123753	5009 - OR53D:	KNIFE RIVER	0480636	14.73	Ton
88070287	24032	9/28/2022	12:26:42PM	US20: 53RD AV	123753	5009 - OR53D:	KNIFE RIVER	0481902	17.28	Ton
88070289	24032	9/28/2022	1:07:17PM	US20: 53RD AV	123753	5009 - OR53D:	OREGON OU1	TM55	14.86	Ton
88070291	24032	9/28/2022	1:21:21PM	US20: 53RD AV	123753	5009 - OR53D:	OREGON OU1	JC3	14.94	Ton
88070292	24032	9/28/2022	1:37:27PM	US20: 53RD AV	123753	5009 - OR53D:	OREGON OU1	SEC4	14.03	Ton
88070293	24032	9/28/2022	1:55:26PM	US20: 53RD AV	123753	5009 - OR53D:	KNIFE RIVER	0480636	14.98	Ton
88070295	24032	9/28/2022	2:46:52PM	US20: 53RD AV	123753	5009 - OR53D:	KNIFE RIVER	0481902	17.36	Ton

Tickets 31

490.26



Corvallis Asphalt

Ticket No.: **88070244**

Date: 9/27/2022 Time: 1:39:37PM

Vehicle : 0421605 KNIFE RIVER SOLO  
Customer : 24224026 US20: 53RD AVE - E. 60TH AVE  
Order : 123753 # 32420 - B/H LVL 3, 1/2"

P.O. :  
Product : 240322 5009 - OR53D30000 ODOT LVL3 **17.44 Ton**

*3:25 pm*  
*1683+60*  
*[Signature]*

TERMS: NET - CASH SALES PAYABLE UPON PICKUP OR DELIVERY. CHARGE SALES DUE AND PAYABLE BY THE 10TH OF MONTH FOLLOWING PURCHASE. A service charge of 1.6% per month, or a minimum of \$1.00, will be made on the unpaid balance at the end of the following month's billing cycle. This is an ANNUAL PERCENTAGE RATE OF 18%. PERSONAL NOTICE: We reserve the right to claim lien for all labor and material furnished on this job according to OREGON REVISED STATUTE 87.021

	<u>Pounds</u>	<u>Tons</u>	<u>Metric</u>
Gross	61420	30.71	27.86
Tare	26540	13.27	12.04
Net	34880	17.44	15.82

Ordered		
Remaining		
Today:	245.45	Loads: 15

Weighmaster: SCOTT.BOYSEN

Received : \_\_\_\_\_



Corvallis Asphalt

Ticket No.: **88070243**

Date: 9/27/2022 Time: 1:32:34PM

Vehicle : 0421803 KNIFE RIVER SOLO  
Customer : 24224026 US20: 53RD AVE - E. 60TH AVE  
Order : 123753 # 32420 - B/H LVL 3, 1/2"

	<u>Pounds</u>	<u>Tons</u>	<u>Metric</u>
Gross	61760	30.88	28.01
Tare	26920	13.46	12.21
Net	34840	17.42	15.80

P.O. :

Product : 240322 5009 - OR53D30000 ODOT LVL3 17.42 Ton

@ 2:28 pm

1683+15

TERMS: NET - CASH SALES PAYABLE UPON PICKUP OR DELIVERY. CHARGE SALES DUE AND PAYABLE BY THE 10TH OF MONTH FOLLOWING PURCHASE. A service charge of 1.5% per month, or a minimum of \$1.00, will be made on the unpaid balance at the end of the following month's billing cycle. This is an ANNUAL PERCENTAGE RATE OF 18%. PERSONAL NOTICE: We reserve the right to claim lien for all labor and material furnished on this job according to OREGON REVISED STATUTE 87.021

Ordered
Remaining
Today: 228.01 Loads: 14

Weighmaster: SCOTT.BOYSEN

Received : \_\_\_\_\_

CUSTOMER COPY



Corvallis Asphalt

Ticket No.: **88070240**

Date: 9/27/2022 Time: 1:04:54PM

Vehicle : 0421606 KNIFE RIVER SOLO  
Customer : 24224026 US20: 53RD AVE - E. 60TH AVE  
Order : 123753 # 32420 - B/H LVL 3, 1/2"

P.O. :  
Product : 240322 5009 - OR53D30000 ODOT LVL3 **17.33** Ton

	<u>Pounds</u>	<u>Tons</u>	<u>Metric</u>
Gross	61060	30.53	27.70
Tare	26400	13.20	11.97
Net	34660	17.33	15.72

Ordered		
Remaining		
Today:	210.59	Loads: 13

TERMS: NET - CASH SALES PAYABLE UPON PICKUP OR DELIVERY. CHARGE SALES DUE AND PAYABLE BY THE 10TH OF MONTH FOLLOWING PURCHASE. A service charge of 1.6% per month, or a minimum of \$1.00, will be made on the unpaid balance at the end of the following month's billing cycle. This is an ANNUAL PERCENTAGE RATE OF 18%. PERSONAL NOTICE: We reserve the right to claim lien for all labor and material furnished on this job according to OREGON REVISED STATUTE §7.021

Received : \_\_\_\_\_

Weighmaster: SCOTT.BOYSEN



# KNIFE RIVER

AN MDU RESOURCES COMPANY

Corvallis Asphalt

Ticket No.: **88070236**

Date : 9/27/2022 Time : 12:25:47PM

Vehicle : SEC2 SEC SOLO  
 Customer : 24224026 US20: 53RD AVE - E. 60TH AVE  
 Order : 123753 # 32420 - B/H LVL 3, 1/2"

P.O. :

Product : 240322 5009 - OR53D30000 ODOT LVL3 **14.76 Ton**

	<u>Pounds</u>	<u>Tons</u>	<u>Metric</u>
Gross	54040	27.02	24.51
Tare	24520	12.26	11.12
Net	29520	14.76	13.39

Ordered		
Remaining		
Today:	193.26	Loads: 12

TERMS: NET - CASH SALES PAYABLE UPON PICKUP OR DELIVERY. CHARGE SALES DUE AND PAYABLE BY THE 10TH OF MONTH FOLLOWING PURCHASE. A service charge of 1.5% per month, or a minimum of \$1.00, will be made on the unpaid balance at the end of the following month's billing cycle. This is an ANNUAL PERCENTAGE RATE OF 18%. PERSONAL NOTICE: We reserve the right to claim lien for all labor and material furnished on this job according to OREGON REVISED STATUTE 87.021

Received : \_\_\_\_\_

Weighmaster: SCOTT.BOYSEN



Corvallis Asphalt

Ticket No.: **88070233**

Date: 9/27/2022 Time: 11:32:29AM  
Vehicle: JC3 JOHNNY CLAUSEN SOLC  
Customer: 24224026 US20: 53RD AVE - E. 60TH AVE  
Order: 123753 # 32420 - B/H LVL 3, 1/2"

	<u>Pounds</u>	<u>Tons</u>	<u>Metric</u>
Gross	54960	27.48	24.93
Tare	24780	12.39	11.24
Net	30180	15.09	13.69

P.O. :  
Product: 240322 5009 - OR53D30000 ODOT LV **15.09 Ton**

TERMS: NET - CASH SALES PAYABLE  
UPON PICKUP OR DELIVERY.  
CHARGE SALES DUE AND PAYABLE  
BY THE 10TH OF MONTH FOLLOWING  
PURCHASE. A service charge of 1.5%  
per month, or a minimum of \$1.00, will  
be made on the unpaid balance at the  
end of the following month's billing  
cycle. This is an ANNUAL  
PERCENTAGE RATE OF 18%.  
PERSONAL NOTICE: We reserve the  
right to claim lien for all labor and  
material furnished on this job according  
to OREGON REVISED STATUTE  
87.021

Ordered		
Remaining		
Today:	178.50	Loads: 11

Received :

Weighmaster: SCOTT.BOYSEN

TANGENT COPY



# KNIFE RIVER

AN MDU RESOURCES COMPANY

Corvallis Asphalt

Ticket No.: **88070231**

Date: 9/27/2022 Time: 10:45:43AM  
 Vehicle: TM55 TERRY MAYFIELD TRUCI  
 Customer: 24224026 US20: 53RD AVE - E. 60TH AVE  
 Order: 123753 # 32420 - B/H LVL 3, 1/2"

	<u>Pounds</u>	<u>Tons</u>	<u>Metric</u>
Gross	53820	26.91	24.41
Tare	24700	12.35	11.20
Net	29120	14.56	13.21

P.O. :  
 Product: 240322 5009 - OR53D30000 ODOT L<sub>1</sub> **14.56 Ton**

TERMS: NET - CASH SALES PAYABLE  
 UPON PICKUP OR DELIVERY.  
 CHARGE SALES DUE AND PAYABLE  
 BY THE 10TH OF MONTH FOLLOWING  
 PURCHASE. A service charge of 1.5%  
 per month, or a minimum of \$1.00, will  
 be made on the unpaid balance at the  
 end of the following month's billing  
 cycle. This is an ANNUAL  
 PERCENTAGE RATE OF 18%.  
 PERSONAL NOTICE: We reserve the  
 right to claim lien for all labor and  
 material furnished on this job according  
 to OREGON REVISED STATUTE  
 87.021

Ordered		
Remaining		
Today:	163.41	Loads: 10

Received : \_\_\_\_\_

Weighmaster: SCOTT.BOYSEN



Corvallis Asphalt

Ticket No.: **88070229**

Date: 9/27/2022 Time: 10:22:11AM

Vehicle : 0421605 KNIFE RIVER SOLO  
Customer : 24224026 US20: 53RD AVE - E. 60TH AVE  
Order : 123753 # 32420 - B/H LVL 3, 1/2"

P.O. :  
Product : 240322 5009 - OR53D30000 ODOT LVL3 **16.85 Ton**

TERMS: NET - CASH SALES PAYABLE UPON PICKUP OR DELIVERY. CHARGE SALES DUE AND PAYABLE BY THE 10TH OF MONTH FOLLOWING PURCHASE. A service charge of 1.5% per month, or a minimum of \$1.00, will be made on the unpaid balance at the end of the following month's billing cycle. This is an ANNUAL PERCENTAGE RATE OF 18%. PERSONAL NOTICE: We reserve the right to claim lien for all labor and material furnished on this job according to OREGON REVISED STATUTE 87.021

	<u>Pounds</u>	<u>Tons</u>	<u>Metric</u>
Gross	60300	30.15	27.35
Tare	26600	13.30	12.07
Net	33700	16.85	15.29

Ordered		
Remaining		
Today:	148.85	Loads: 9

Weighmaster: SCOTT.BOYSEN

Received : \_\_\_\_\_





# KNIFE RIVER

AN MDU RESOURCES COMPANY

Corvallis Asphalt

Ticket No.: **88070228**

Date : 9/27/2022 Time : 10:07:02AM  
 Vehicle : 0421803 KNIFE RIVER SOLO  
 Customer : 24224026 US20: 53RD AVE - E. 60TH AVE  
 Order : 123753 # 32420 - B/H LVL 3, 1/2"

	<u>Pounds</u>	<u>Tons</u>	<u>Metric</u>
Gross	61860	30.93	28.06
Tare	27000	13.50	12.25
Net	34860	17.43	15.81

P.O.#:  
 Product : 240322 5009 - OR53D30000 ODOT L# **17.43 Ton**

TERMS: NET - CASH SALES PAYABLE UPON PICKUP OR DELIVERY. CHARGE SALES DUE AND PAYABLE BY THE 10TH OF MONTH FOLLOWING PURCHASE. A service charge of 1.5% per month, or a minimum of \$1.00, will be made on the unpaid balance at the end of the following month's billing cycle. This is an ANNUAL PERCENTAGE RATE OF 18%. PERSONAL NOTICE: We reserve the right to claim lien for all labor and material furnished on this job according to OREGON REVISED STATUTE 87.021

Ordered		
Remaining		
Today:	132.00	Loads: 8

Weighmaster: SCOTT.BOYSEN

Received : \_\_\_\_\_



Corvallis Asphalt

Ticket No.: **88070226**

Date: 9/27/2022 Time: 9:35:34AM

Vehicle: 0421606 KNIFE RIVER SOLO  
Customer: 24224026 US20: 53RD AVE - E. 60TH AVE  
Order: 123753 # 32420 - B/H LVL 3, 1/2"

P.O.:

Product: 240322 5009 - OR53D30000 ODOT LVL3 **17.20 Ton**

TERMS: NET - CASH SALES PAYABLE  
UPON PICKUP OR DELIVERY.  
CHARGE SALES DUE AND PAYABLE  
BY THE 10TH OF MONTH FOLLOWING  
PURCHASE. A service charge of 1.5%  
per month, or a minimum of \$1.00, will  
be made on the unpaid balance at the  
end of the following month's billing  
cycle. This is an ANNUAL  
PERCENTAGE RATE OF 18%.  
PERSONAL NOTICE: We reserve the  
right to claim lien for all labor and  
material furnished on this job according  
to OREGON REVISED STATUTE  
87.021

	<u>Pounds</u>	<u>Tons</u>	<u>Metric</u>
Gross	60920	30.46	27.63
Tare	26520	13.26	12.03
Net	34400	17.20	15.60

Ordered		
Remaining		
Today:	114.57	Loads: 7

Weighmaster: SCOTT.BOYSEN

Received: \_\_\_\_\_

CUSTOMER COPY



Corvallis Asphalt

Ticket No.: **88070219**

Date: 9/27/2022 Time: 8:09:45AM

Vehicle : SEC2 SEC SOLO  
Customer : 24224026 US20: 53RD AVE - E. 60TH AVE  
Order : 123753 # 32420 - B/H LVL 3, 1/2"

P.O. :  
Product : 240322 5009 - OR53D30000 ODOT LVL3 **15.15 Ton**

**TERMS: NET - CASH SALES PAYABLE UPON PICKUP OR DELIVERY. CHARGE SALES DUE AND PAYABLE BY THE 10TH OF MONTH FOLLOWING PURCHASE.** A service charge of 1.5% per month, or a minimum of \$1.00, will be made on the unpaid balance at the end of the following month's billing cycle. This is an ANNUAL PERCENTAGE RATE OF 18%.  
**PERSONAL NOTICE:** We reserve the right to claim lien for all labor and material furnished on this job according to OREGON REVISED STATUTE 87.021

	<u>Pounds</u>	<u>Tons</u>	<u>Metric</u>
Gross	55000	27.50	24.95
Tare	24700	12.35	11.20
Net	30300	15.15	13.74

Ordered		
Remaining		
Today:	97.37	Loads: 6

Weighmaster: SCOTT.BOYSEN

Received : \_\_\_\_\_

CUSTOMER COPY



Corvallis Asphalt

Ticket No.: 88070218

Date: 9/27/2022 Time: 7:55:44AM  
Vehicle: JC3 JOHNNY CLAUSEN SOLC  
Customer: 24224026 US20: 53RD AVE - E. 60TH AVE  
Order: 123753 # 32420 - B/H LVL 3, 1/2"

P.O. :  
Product: 240322 5009 - OR53D30000 ODOT L) 14.99 Ton

TERMS: NET - CASH SALES PAYABLE  
UPON PICKUP OR DELIVERY.  
CHARGE SALES DUE AND PAYABLE  
BY THE 10TH OF MONTH FOLLOWING  
PURCHASE. A service charge of 1.6%  
per month, or a minimum of \$1.00, will  
be made on the unpaid balance at the  
end of the following month's billing  
cycle. This is an ANNUAL  
PERCENTAGE RATE OF 18%.  
PERSONAL NOTICE: We reserve the  
right to claim lien for all labor and  
material furnished on this job according  
to OREGON REVISED STATUTE  
87.021

	<u>Pounds</u>	<u>Tons</u>	<u>Metric</u>
Gross	54860	27.43	24.88
Tare	24880	12.44	11.29
Net	29980	14.99	13.60

Ordered		
Remaining		
Today:	82.22	Loads: 5

Received : \_\_\_\_\_

Weighmaster: SCOTT.BOYSEN

TANGENT COPY



Corvallis Asphalt

Ticket No.: 88070217

Date : 9/27/2022 Time : 7:43:44AM  
Vehicle : TM55 TERRY MAYFIELD TRUCI  
Customer : 24224026 US20: 53RD AVE - E. 60TH AVE  
Order : 123753 # 32420 - B/H LVL 3, 1/2"

	<u>Pounds</u>	<u>Tons</u>	<u>Metric</u>
Gross	54520	27.26	24.73
Tare	24820	12.41	11.26
Net	29700	14.85	13.47

P.O. :  
Product : 240322 5009 - OR53D30000 ODOT L\ 14.85 Ton

TERMS: NET - CASH SALES PAYABLE UPON PICKUP OR DELIVERY.  
CHARGE SALES DUE AND PAYABLE BY THE 10TH OF MONTH FOLLOWING PURCHASE. A service charge of 1.5% per month, or a minimum of \$1.00, will be made on the unpaid balance at the end of the following month's billing cycle. This is an ANNUAL PERCENTAGE RATE OF 18%.  
PERSONAL NOTICE: We reserve the right to claim lien for all labor and material furnished on this job according to OREGON REVISED STATUTE 87.021

Ordered		
Remaining		
Today:	67.23	Loads: 4

Received : \_\_\_\_\_

Weighmaster: SCOTT.BOYSEN



Corvallis Asphalt

Ticket No.: **88070216**

Date: 9/27/2022 Time: 7:31:34AM

Vehicle : 0421605 KNIFE RIVER SOLO  
Customer : 24224026 US20: 53RD AVE - E. 60TH AVE  
Order : 123753 # 32420 - B/H LVL 3, 1/2"

P.O. :  
Product : 240322 5009 - OR53D30000 ODOT LVL3 **17.58 Ton**

TERMS: NET - CASH SALES PAYABLE  
UPON PICKUP OR DELIVERY.  
CHARGE SALES DUE AND PAYABLE  
BY THE 10TH OF MONTH FOLLOWING  
PURCHASE. A service charge of 1.5%  
per month, or a minimum of \$1.00, will  
be made on the unpaid balance at the  
end of the following month's billing  
cycle. This is an ANNUAL  
PERCENTAGE RATE OF 18%.  
PERSONAL NOTICE: We reserve the  
right to claim lien for all labor and  
material furnished on this job according  
to OREGON REVISED STATUTE

	<u>Pounds</u>	<u>Tons</u>	<u>Metric</u>
Gross	61920	30.96	28.09
Tare	26760	13.38	12.14
Net	35160	17.58	15.95

Ordered		
Remaining		
Today:	52.38	Loads: 3

Weighmaster: SCOTT.BOYSEN

Received : \_\_\_\_\_



Corvallis Asphalt

Ticket No.: 88070215

Date: 9/27/2022 Time: 7:14:57AM  
Vehicle: 0421803 KNIFE RIVER SOLO  
Customer: 24224026 US20: 53RD AVE - E. 60TH AVE  
Order: 123753 # 32420 - B/H LVL 3, 1/2"

	<u>Pounds</u>	<u>Tons</u>	<u>Metric</u>
Gross	61960	30.98	28.10
Tare	27100	13.55	12.29
Net	34860	17.43	15.81

P.O. :  
Product: 240322 5009 - OR53D30000 ODOT LI 17.43 Ton

TERMS: NET - CASH SALES PAYABLE UPON PICKUP OR DELIVERY. CHARGE SALES DUE AND PAYABLE BY THE 10TH OF MONTH FOLLOWING PURCHASE. A service charge of 1.6% per month, or a minimum of \$1.00, will be made on the unpaid balance at the end of the following month's billing cycle. This is an ANNUAL PERCENTAGE RATE OF 18%. PERSONAL NOTICE: We reserve the right to claim lien for all labor and material furnished on this job according to OREGON REVISED STATUTE 87.021

Ordered		
Remaining		
Today:	34.80	Loads: 2

Weighmaster: SCOTT.BOYSEN

Received : \_\_\_\_\_

TANGENT COPY



Corvallis Asphalt

Ticket No.: 88070214

Date: 9/27/2022 Time: 7:03:00AM

Vehicle: 0421606 KNIFE RIVER SOLO  
Customer: 24224026 US20: 53RD AVE - E. 60TH AVE  
Order: 123753 # 32420 - B/H LVL 3, 1/2"

P.O.: 240322 5009 - OR53D30000 ODOT LVL3 17.37 Ton

TERMS: NET - CASH SALES PAYABLE  
UPON PICKUP OR DELIVERY.  
CHARGE SALES DUE AND PAYABLE  
BY THE 10TH OF MONTH FOLLOWING  
PURCHASE. A service charge of 1.5%  
per month, or a minimum of \$1.00, will  
be made on the unpaid balance at the  
end of the following month's billing  
cycle. This is an ANNUAL  
PERCENTAGE RATE OF 18%.  
PERSONAL NOTICE: We reserve the  
right to claim lien for all labor and  
material furnished on this job according  
to OREGON REVISED STATUTE  
87.021

	<u>Pounds</u>	<u>Tons</u>	<u>Metric</u>
Gross	61380	30.69	27.84
Tare	26640	13.32	12.08
Net	34740	17.37	15.76

Ordered		
Remaining		
Today:	17.37	Loads: 1
Weighmaster: SCOTT.BOYSEN		

Received: \_\_\_\_\_

CUSTOMER COPY



Tickets Start	88070267	COUNT #			COUNT #			COUNT #		
		LOAD	Ton	Ton	LOAD	Ton	Ton	LOAD	Ton	Ton
Tickets End	88070293	1	17.27		55			109		
UNIT =	Ton	2	14.94		56			110		
TOTAL 1 =	244.81	3	14.90		57			111		
TOTAL 2=	0.00	4	13.93		58			112		
Contract #	C15347	5	14.78		59			113		
<u>PROJECT</u>		6	17.23		60			114		
US20: 53rd Ave - East of 60th		7	14.94		61			115		
Ave. (Sweet Home)		8	14.72		62			116		
<u>CONTRACTOR</u>		9	13.92		63			117		
Emery and Sons Construction		10	14.73		64			118		
Group LLC		11	17.28		65			119		
BI#	540	12	14.86		66			120		
<u>MATERIAL</u>		13	14.94		67			121		
Level 3, 1/2" ACP		14	14.03		68			122		
<u>DATE</u>		15	14.98		69			123		
9/28/2022		16	17.36		70			124		
<u>LOCATION</u>		17			71			125		
"L" 1671+26 - 1673+23.		18			72			126		
1684+00 - 1693+25. Left of CL.		19			73			127		
2 Base lifts and top lift		20			74			128		
<i>Josh Gann</i>		21			75			129		
10/5/22		22			76			130		
		23			77			131		
		24			78			132		
		25			79			133		
		26			80			134		
		27			81			135		
		28			82			136		
		29			83			137		
		30			84			138		
		31			85			139		
		32			86			140		
		33			87			141		
		34			88			142		
		35			89			143		
		36			90			144		
		37			91			145		
		38			92			146		
		39			93			147		
		40			94			148		
		41			95			149		
		42			96			150		
		43			97			151		
		44			98			152		
		45			99			153		
		46			100			154		
		47			101			155		
		48			102			156		
		49			103			157		
		50			104			158		
		51			105			159		
		52			106			160		
		53			107			161		
		54			108			162		



# MATERIAL DELIVERY & YIELD CHECK SHEET

PROJECT	US20: 53th Ave - East of 60th Ave. (Sweet Ho	CONTRACT	C15347
DATE	9/28/2022	SOURCE	Knife River
BID ITEM	540	MATERIAL	Level 3, 1/2" ACP

MATERIAL DELIVERY						
LOAD #	TICKET #	QUANTITY DELIVERED	LOCATION PLACED	TIME DELIVERED	CUMULATIVE DELIVERED	REMARKS (Width)
1	267	17.27	Base	8:00 AM	17.27	1690+45 - 1693+25
2	268	14.94	Base1	8:45 AM	32.21	60th Ave - 1690+45
3	269	14.90	Base1	8:55 AM	47.11	60th Ave - 1690+45
4	270	13.93	Base1	9:30 AM	61.04	1684+00 - 60th Ave
5	271	14.78	Base1	9:50 AM	75.82	1684+00 - 60th Ave
6	274	17.23	Base2	11:10 AM	93.05	1684+00 - 60th Ave
7	279	14.94	Base2	11:45 AM	107.99	60th Ave - 1690+45
8	280	14.72	Base2	12:00 PM	122.71	60th Ave - 1690+45
9	281	13.92	Top	12:30 PM	136.63	60th Ave - 1690+45
10	283	14.73	Top	12:50 PM	151.36	1684+00 - 60th Ave
<b>(A) Total</b>		<b>151.36</b>				

**(B) THEORETICAL YIELD CALC: (Width x Length x (Depth/12) x (MAMD \* %Comp./100) / 2000) = TONS**

WIDTH (Ft)	LENGTH (Ft)	DEPTH (In)	MAMD	% COMPACTION	THEORETICAL TONS

**(C) COMPARISON CALC: (A/B) X 100      (D) % TOLERANCE CALC: (100-C) (expected tolerance to be within +/- 10.0%)**

Ten Load Yield (A)	151.36		<b>* Initial here if yield calculations are not applicable due to irregular areas or lack of consistent placement</b>
Theoretical Tons (B)			
Comparison (C)			
% Tolerance (D)		When +/- 10.0% tolerance is exceeded, verify Depth, Width, and Length, then MAMD and Compaction. Notify Contractor of unsatisfactory yield that needs adjustment. Continue checking yields.	

**DAILY THEORETICAL YIELD CALCULATION ( expected tolerance to be within +/- 10.0%)  
( Avg Width x Overall Length x (Avg Depth/12) x (MAMD \* Avg %Comp./100) / 2000) = TONS**

WIDTH (Ft)	LENGTH (Ft)	DEPTH (In)	MAMD	% COMPACTION	THEORETICAL TONS	TOLERANCE

Josh Gann	<i>Josh Gann</i>	9/28/22
Inspected by (Print Name)	Inspected by (Signature)	Date

**OFFICE USE ONLY**

Checked by (Print Name)	Checked by (Signature)	Date
Quantity This Note _____	Pay Unit _____	<input type="checkbox"/> Quality Checked
Estimate Number _____	Note No. _____	<input type="checkbox"/> Quantity Checked

# MATERIAL DELIVERY & YIELD CHECK SHEET

PROJECT	US20: 53th Ave - East of 60th Ave. (Sweet Hd	CONTRACT	C15347
DATE	9/28/2022	SOURCE	Knife River
BID ITEM	540	MATERIAL	Level 3, 1/2" ACP

LOAD #	TICKET #	QUANTITY DELIVERED	LOCATION PLACED	TIME DELIVERED	CUMULATIVE DELIVERED	REMARKS (Width)
11	287	17.28	Top	1:30 PM	168.64	1684+00 - 60th Ave
12	289	14.86	Base1	2:00 PM	183.50	1671+26 - 1673+23
13	291	14.94	Base2	2:35 PM	198.44	1671+26 - 1673+23
14	292	14.03	Base2	3:00 PM	212.47	1671+26 - 1673+23
15	293	14.98	Top	3:45 PM	227.45	1671+26 - 1673+23
16	295	17.36	Top	4:00 PM	244.81	1671+26 - 1673+23
17					244.81	
18					244.81	
19					244.81	
20					244.81	
	Subtotal	93.45	Running Total		244.81	

Yield	Width	Length	Depth	MAMD	% Comp	Theoretical Tons	Tolerance
10-Load							
Running							

LOAD #	TICKET #	QUANTITY DELIVERED	LOCATION PLACED	TIME DELIVERED	CUMULATIVE DELIVERED	REMARKS (Width)
21					244.81	
22					244.81	
23					244.81	
24					244.81	
25					244.81	
26					244.81	
27					244.81	
28					244.81	
29					244.81	
30					244.81	
	Subtotal		Running Total		244.81	

Yield	Width	Length	Depth	MAMD	% Comp	Theoretical Tons	Tolerance
10-Load							
Running							

# HISTORY TICKET INQUIRY

BEGIN DATE	9/26/2022	LOCATION	240320
END DATE	9/29/2022	CUSTOMER	24224026
SELL/BUY/TRANS	ALL		
SHIP/RECEIVE	ALL		

<u>Ticket</u>	<u>Loc</u>	<u>Date</u>	<u>Time</u>	<u>Customer</u>	<u>Order</u>	<u>Product</u>	<u>Carrier</u>	<u>Vehicle</u>	<u>Qty</u>	<u>Unit</u>
88070214	24032	9/27/2022	7:02:47AM	US20: 53RD AV	123753	5009 - OR53D:	KNIFE RIVER	0421606	17.37	Ton
88070215	24032	9/27/2022	7:14:56AM	US20: 53RD AV	123753	5009 - OR53D:	KNIFE RIVER	0421803	17.43	Ton
88070216	24032	9/27/2022	7:31:34AM	US20: 53RD AV	123753	5009 - OR53D:	KNIFE RIVER	0421605	17.58	Ton
88070217	24032	9/27/2022	7:43:44AM	US20: 53RD AV	123753	5009 - OR53D:	OREGON OU1	TM55	14.85	Ton
88070218	24032	9/27/2022	7:55:44AM	US20: 53RD AV	123753	5009 - OR53D:	OREGON OU1	JC3	14.99	Ton
88070219	24032	9/27/2022	8:09:45AM	US20: 53RD AV	123753	5009 - OR53D:	OREGON OU1	SEC2	15.15	Ton
88070226	24032	9/27/2022	9:35:34AM	US20: 53RD AV	123753	5009 - OR53D:	KNIFE RIVER	0421606	17.20	Ton
88070228	24032	9/27/2022	10:06:53AM	US20: 53RD AV	123753	5009 - OR53D:	KNIFE RIVER	0421803	17.43	Ton
88070229	24032	9/27/2022	10:22:10AM	US20: 53RD AV	123753	5009 - OR53D:	KNIFE RIVER	0421605	16.85	Ton
88070231	24032	9/27/2022	10:45:43AM	US20: 53RD AV	123753	5009 - OR53D:	OREGON OU1	TM55	14.56	Ton
88070233	24032	9/27/2022	11:32:29AM	US20: 53RD AV	123753	5009 - OR53D:	OREGON OU1	JC3	15.09	Ton
88070236	24032	9/27/2022	12:25:46PM	US20: 53RD AV	123753	5009 - OR53D:	OREGON OU1	SEC2	14.76	Ton
88070240	24032	9/27/2022	1:04:44PM	US20: 53RD AV	123753	5009 - OR53D:	KNIFE RIVER	0421606	17.33	Ton
88070243	24032	9/27/2022	1:32:24PM	US20: 53RD AV	123753	5009 - OR53D:	KNIFE RIVER	0421803	17.42	Ton
88070244	24032	9/27/2022	1:39:37PM	US20: 53RD AV	123753	5009 - OR53D:	KNIFE RIVER	0421605	17.44	Ton
88070267	24032	9/28/2022	6:58:05AM	US20: 53RD AV	123753	5009 - OR53D:	KNIFE RIVER	0481902	17.27	Ton
88070268	24032	9/28/2022	7:21:42AM	US20: 53RD AV	123753	5009 - OR53D:	OREGON OU1	TM55	14.94	Ton
88070269	24032	9/28/2022	7:27:27AM	US20: 53RD AV	123753	5009 - OR53D:	OREGON OU1	JC3	14.90	Ton
88070270	24032	9/28/2022	7:44:03AM	US20: 53RD AV	123753	5009 - OR53D:	OREGON OU1	SEC4	13.93	Ton
88070271	24032	9/28/2022	8:26:53AM	US20: 53RD AV	123753	5009 - OR53D:	KNIFE RIVER	0480636	14.78	Ton
88070274	24032	9/28/2022	9:33:35AM	US20: 53RD AV	123753	5009 - OR53D:	KNIFE RIVER	0481902	17.23	Ton
88070279	24032	9/28/2022	10:11:12AM	US20: 53RD AV	123753	5009 - OR53D:	OREGON OU1	TM55	14.94	Ton
88070280	24032	9/28/2022	10:47:12AM	US20: 53RD AV	123753	5009 - OR53D:	OREGON OU1	JC3	14.72	Ton
88070281	24032	9/28/2022	10:51:50AM	US20: 53RD AV	123753	5009 - OR53D:	OREGON OU1	SEC4	13.92	Ton
88070283	24032	9/28/2022	11:05:44AM	US20: 53RD AV	123753	5009 - OR53D:	KNIFE RIVER	0480636	14.73	Ton
88070287	24032	9/28/2022	12:26:42PM	US20: 53RD AV	123753	5009 - OR53D:	KNIFE RIVER	0481902	17.28	Ton
88070289	24032	9/28/2022	1:07:17PM	US20: 53RD AV	123753	5009 - OR53D:	OREGON OU1	TM55	14.86	Ton
88070291	24032	9/28/2022	1:21:21PM	US20: 53RD AV	123753	5009 - OR53D:	OREGON OU1	JC3	14.94	Ton
88070292	24032	9/28/2022	1:37:27PM	US20: 53RD AV	123753	5009 - OR53D:	OREGON OU1	SEC4	14.03	Ton
88070293	24032	9/28/2022	1:55:26PM	US20: 53RD AV	123753	5009 - OR53D:	KNIFE RIVER	0480636	14.98	Ton
88070295	24032	9/28/2022	2:46:52PM	US20: 53RD AV	123753	5009 - OR53D:	KNIFE RIVER	0481902	17.36	Ton

Tickets 31

490.26



Corvallis Asphalt

Ticket No.: 88070293

Date: 9/28/2022 Time: 1:55:26PM  
Vehicle: 0480636 KNIFE RIVER SOLO  
Customer: 24224026 US20: 53RD AVE - E. 60TH AVE  
Order: 123753 # 32420 - B/H LVL 3, 1/2"

	<u>Pounds</u>	<u>Tons</u>	<u>Metric</u>
Gross	55300	27.65	25.08
Tare	25340	12.67	11.49
Net	29960	14.98	13.59

P.O. :  
Product: 240322 5009 - OR53D30000 ODOT L1 **14.98 Ton**

TERMS: NET - CASH SALES PAYABLE UPON PICKUP OR DELIVERY. CHARGE SALES DUE AND PAYABLE BY THE 10TH OF MONTH FOLLOWING PURCHASE. A service charge of 1.5% per month, or a minimum of \$1.00, will be made on the unpaid balance at the end of the following month's billing cycle. This is an ANNUAL PERCENTAGE RATE OF 18%. PERSONAL NOTICE: We reserve the right to claim lien for all labor and material furnished on this job according to OREGON REVISED STATUTE 87.021

Ordered		
Remaining		
Today:	227.45	Loads: 15

Received: \_\_\_\_\_

Weighmaster: SCOTT.BOYSEN

TANGENT COPY



Corvallis Asphalt

Ticket No.: **88070292**

Date : 9/28/2022 Time : 1:37:27PM

Vehicle : SEC4 SEC SOLO  
Customer : 24224026 US20: 53RD AVE - E. 60TH AVE  
Order : 123753 # 32420 - B/H LVL 3, 1/2"

P.O. #:  
Product : 240322 5009 - OR53D30000 ODOT LVL3 **14.03 Ton**

TERMS: NET - CASH SALES PAYABLE  
UPON PICKUP OR DELIVERY.  
CHARGE SALES DUE AND PAYABLE  
BY THE 10TH OF MONTH FOLLOWING  
PURCHASE. A service charge of 1.5%  
per month, or a minimum of \$1.00, will  
be made on the unpaid balance at the  
end of the following month's billing  
cycle. This is an ANNUAL  
PERCENTAGE RATE OF 18%.  
PERSONAL NOTICE: We reserve the  
right to claim lien for all labor and  
material furnished on this job according  
to OREGON REVISED STATUTE  
87.021

Received : \_\_\_\_\_

**CUSTOMER COPY**

	<u>Pounds</u>	<u>Tons</u>	<u>Metric</u>
Gross	52500	26.25	23.81
Tare	24440	12.22	11.09
Net	28060	14.03	12.73

Ordered		
Remaining		
Today:	212.47	Loads: 14

Weighmaster: SCOTT.BOYSEN



# KNIFE RIVER

AN MDU RESOURCES COMPANY

Corvallis Asphalt

Ticket No.:

**88070291**

Date : 9/28/2022 Time : 1:21:30PM  
 Vehicle : JC3 JOHNNY CLAUSEN SOLC  
 Customer : 24224026 US20: 53RD AVE - E. 60TH AVE  
 Order : 123753 # 32420 - B/H LVL 3, 1/2"

	<u>Pounds</u>	<u>Tons</u>	<u>Metric</u>
Gross	54840	27.42	24.88
Tare	24960	12.48	11.32
Net	29880	14.94	13.55

P.O. :  
 Product : 240322 5009 - OR53D30000 ODOT L1 **14.94 Ton**

TERMS: NET - CASH SALES PAYABLE UPON PICKUP OR DELIVERY. CHARGE SALES DUE AND PAYABLE BY THE 10TH OF MONTH FOLLOWING PURCHASE. A service charge of 1.6% per month, or a minimum of \$1.00, will be made on the unpaid balance at the end of the following month's billing cycle. This is an ANNUAL PERCENTAGE RATE OF 18%. PERSONAL NOTICE: We reserve the right to claim lien for all labor and material furnished on this job, according to OREGON REVISED STATUTE 87.021

Ordered		
Remaining		
Today:	198.44	Loads: 13

Received : \_\_\_\_\_

Weighmaster: SCOTT.BOYSEN

TANGENT COPY



# KNIFE RIVER

AN MDU RESOURCES COMPANY

Corvallis Asphalt

Ticket No.:

**88070289**

Date: 9/28/2022 Time: 1:07:26PM  
 Vehicle: TM55 TERRY MAYFIELD TRUCI  
 Customer: 24224026 US20: 53RD AVE - E. 60TH AVE  
 Order: 123753 # 32420 - B/H LVL 3, 1/2"

	<u>Pounds</u>	<u>Tons</u>	<u>Metric</u>
Gross	54400	27.20	24.68
Tare	24680	12.34	11.19
Net	29720	14.86	13.48

P.O. :  
 Product: 240322 5009 - OR53D30000 ODOT L<sub>1</sub> **14.86 Ton**

**TERMS: NET - CASH SALES PAYABLE UPON PICKUP OR DELIVERY.  
 CHARGE SALES DUE AND PAYABLE BY THE 10TH OF MONTH FOLLOWING PURCHASE. A service charge of 1.5% per month, or a minimum of \$1.00, will be made on the unpaid balance at the end of the following month's billing cycle. This is an ANNUAL PERCENTAGE RATE OF 18%.**  
**PERSONAL NOTICE: We reserve the right to claim lien for all labor and material furnished on this job according to OREGON REVISED STATUTE 87.021**

Ordered		
Remaining		
Today:	183.50	Loads: 12

Received :

\_\_\_\_\_

Weighmaster: SCOTT.BOYSEN

TANGENT COPY





Corvallis Asphalt

Ticket No.: 88070287

Date: 9/28/2022 Time: 12:26:43PM

Vehicle: 0481902 KNIFE RIVER SOLO  
Customer: 24224026 US20: 53RD AVE - E. 60TH AVE  
Order: 123753 # 32420 - B/H LVL 3, 1/2"

	<u>Pounds</u>	<u>Tons</u>	<u>Metric</u>
Gross	61700	30.85	27.99
Tare	27140	13.57	12.31
Net	34560	17.28	15.68

P.O. :  
Product: 240322 5009 - OR53D30000 ODOT LVL3 17.28 Ton

127pm 1672+00

TERMS: NET - CASH SALES PAYABLE UPON PICKUP OR DELIVERY. CHARGE SALES DUE AND PAYABLE BY THE 10TH OF MONTH FOLLOWING PURCHASE. A service charge of 1.5% per month, or a minimum of \$1.00, will be made on the unpaid balance at the end of the following month's billing cycle. This is an ANNUAL PERCENTAGE RATE OF 18%. PERSONAL NOTICE: We reserve the right to claim lien for all labor and material furnished on this job according to OREGON REVISED STATUTE 87.021

Ordered			
Remaining			
Today:	168.64	Loads:	11

Weighmaster: SCOTT.BOYSEN

Received: \_\_\_\_\_

CUSTOMER COPY



# KNIFE RIVER

AN MDU RESOURCES COMPANY

Corvallis Asphalt

Ticket No.: **88070283**

Date : 9/28/2022 Time : 11:05:44AM  
 Vehicle : 0480636 KNIFE RIVER SOLO  
 Customer : 24224026 US20: 53RD AVE - E. 60TH AVE  
 Order : 123753 # 32420 - B/H LVL 3, 1/2"

P.O. :  
 Product : 240322 5009 - OR53D30000 ODOT L1 **14.73 Ton**

**TERMS: NET - CASH SALES PAYABLE  
 UPON PICKUP OR DELIVERY.  
 CHARGE SALES DUE AND PAYABLE  
 BY THE 10TH OF MONTH FOLLOWING  
 PURCHASE. A service charge of 1.6%  
 per month, or a minimum of \$1.00, will  
 be made on the unpaid balance at the  
 end of the following month's billing  
 cycle. This is an ANNUAL  
 PERCENTAGE RATE OF 18%.  
 PERSONAL NOTICE: We reserve the  
 right to claim lien for all labor and  
 material furnished on this job according  
 to OREGON REVISED STATUTE  
 87.021**

Received : \_\_\_\_\_

	<u>Pounds</u>	<u>Tons</u>	<u>Metric</u>
Gross	54920	27.46	24.91
Tare	25460	12.73	11.55
Net	29460	14.73	13.36

Ordered		
Remaining		
Today:	151.36	Loads: 10

Weighmaster: SCOTT.BOYSEN

TANGENT COPY



Corvallis Asphalt

Ticket No.: 88070281

Date : 9/28/2022 Time : 10:51:50AM

Vehicle : SEC4 SEC SOLO
Customer : 24224026 US20: 53RD AVE - E. 60TH AVE
Order : 123753 # 32420 - B/H LVL 3, 1/2"

P.O. :
Product : 240322 5009 - OR53D30000 ODOT LVL3 13.92 Ton

TERMS: NET - CASH SALES PAYABLE UPON PICKUP OR DELIVERY. CHARGE SALES DUE AND PAYABLE BY THE 10TH OF MONTH FOLLOWING PURCHASE. A service charge of 1.6% per month, or a minimum of \$1.00, will be made on the unpaid balance at the end of the following month's billing cycle. This is an ANNUAL PERCENTAGE RATE OF 18%. PERSONAL NOTICE: We reserve the right to claim lien for all labor and material furnished on this job according to OREGON REVISED STATUTE 87.021

Received : \_\_\_\_\_

CUSTOMER COPY

Table with 4 columns: Pounds, Tons, Metric. Rows: Gross (52360, 26.18, 23.75), Tare (24520, 12.26, 11.12), Net (27840, 13.92, 12.63)

Table with 2 columns: Ordered, Remaining. Row: Today (136.63, 9 Loads)

Weighmaster: SCOTT.BOYSEN



Corvallis Asphalt

Ticket No.: 88070280

Date: 9/28/2022 Time: 10:47:13AM  
Vehicle: JC3 JOHNNY CLAUSEN SOLC  
Customer: 24224026 US20: 53RD AVE - E. 60TH AVE  
Order: 123753 # 32420 - B/H LVL 3, 1/2"

	<u>Pounds</u>	<u>Tons</u>	<u>Metric</u>
Gross	54140	27.07	24.56
Tare	24700	12.35	11.20
Net	29440	14.72	13.35

P.O. :  
Product: 240322 5009 - OR53D30000 ODOT L\ 14.72 Ton

TERMS: NET - CASH SALES PAYABLE  
UPON PICKUP OR DELIVERY.  
CHARGE SALES DUE AND PAYABLE  
BY THE 10TH OF MONTH FOLLOWING  
PURCHASE. A service charge of 1.5%  
per month, or a minimum of \$1.00, will  
be made on the unpaid balance at the  
end of the following month's billing  
cycle. This is an ANNUAL  
PERSONAL NOTICE: We reserve the  
right to claim lien for all labor and  
material furnished on this job according  
to OREGON REVISED STATUTE  
87.021

Ordered		
Remaining		
Today:	122.71	Loads: 8

Received : \_\_\_\_\_

Weighmaster: SCOTT.BOYSEN

TANGENT COPY



Corvallis Asphalt

Ticket No.: 88070279

Date : 9/28/2022 Time : 10:11:12AM  
Vehicle : TM55 TERRY MAYFIELD TRUCI  
Customer : 24224026 US20: 53RD AVE - E. 60TH AVE  
Order : 123753 # 32420 - B/H LVL 3, 1/2"

	<u>Pounds</u>	<u>Tons</u>	<u>Metric</u>
Gross	54640	27.32	24.78
Tare	24760	12.38	11.23
Net	29880	14.94	13.55

P.O. :  
Product : 240322 5009 - OR53D30000 ODOT LI 14.94 Ton

TERMS: NET - CASH SALES PAYABLE  
UPON PICKUP OR DELIVERY.  
CHARGE SALES DUE AND PAYABLE  
BY THE 10TH OF MONTH FOLLOWING  
PURCHASE. A service charge of 1.5%  
per month, or a minimum of \$1.00, will  
be made on the unpaid balance at the  
end of the following month's billing  
cycle. This is an ANNUAL  
PERCENTAGE RATE OF 18%.  
PERSONAL NOTICE: We reserve the  
right to claim lien for all labor and  
material furnished on this job according  
to OREGON REVISED STATUTE  
87.021

Ordered		
Remaining		
Today:	107.99	Loads: 7

Received : \_\_\_\_\_

Weighmaster: SCOTT.BOYSEN

TANGENT COPY



Corvallis Asphalt

Ticket No.: 88070274

Date : 9/28/2022 Time : 9:33:35AM

Vehicle : 0481902 KNIFE RIVER SOLO
Customer : 24224026 US20: 53RD AVE - E. 60TH AVE
Order : 123753 # 32420 - B/H LVL 3, 1/2"

P.O.#:
Product : 240322 5009 - OR53D30000 ODOT LVL3 17.23 Ton

TERMS: NET - CASH SALES PAYABLE UPON PICKUP OR DELIVERY. CHARGE SALES DUE AND PAYABLE BY THE 10TH OF MONTH FOLLOWING PURCHASE. A service charge of 1.5% per month, or a minimum of \$1.00, will be made on the unpaid balance at the end of the following month's billing cycle. This is an ANNUAL PERCENTAGE RATE OF 18%. PERSONAL NOTICE: We reserve the right to claim lien for all labor and material furnished on this job according to OREGON REVISED STATUTE 87.021

Received : \_\_\_\_\_

CUSTOMER COPY

Table with 4 columns: Gross, Tare, Net, Pounds, Tons, Metric. Values: Gross 61720, Tare 27260, Net 34460, Pounds 61720, Tons 30.86, Metric 28.00.

Table with 2 columns: Ordered, Remaining. Today: 93.05 Loads: 6

Weighmaster: SCOTT.BOYSEN



Corvallis Asphalt

Ticket No.: 88070271

Date: 9/28/2022 Time: 8:26:54AM  
Vehicle: 0480636 KNIFE RIVER SOLO  
Customer: 24224026 US20: 53RD AVE - E. 60TH AVE  
Order: 123753 # 32420 - B/H LVL 3, 1/2"

	<u>Pounds</u>	<u>Tons</u>	<u>Metric</u>
Gross	55120	27.56	25.00
Tare	25560	12.78	11.59
Net	29560	14.78	13.41

P.O. :  
Product: 240322 5009 - OR53D30000 ODOT LV 14.78 Ton

TERMS: NET - CASH SALES PAYABLE UPON PICKUP OR DELIVERY. CHARGE SALES DUE AND PAYABLE BY THE 10TH OF MONTH FOLLOWING PURCHASE. A service charge of 1.5% per month, or a minimum of \$1.00, will be made on the unpaid balance at the end of the following month's billing cycle. This is an ANNUAL PERCENTAGE RATE OF 18%. PERSONAL NOTICE: We reserve the right to claim lien for all labor and material furnished on this job according to OREGON REVISED STATUTE 87.021

Ordered		
Remaining		
Today:	75.82	Loads: 5

Received : \_\_\_\_\_

Weighmaster: SCOTT.BOYSEN

TANGENT COPY



Corvallis Asphalt

Ticket No.: 88070270

Date : 9/28/2022 Time : 7:44:04AM

Vehicle : SEC4 SEC SOLO  
Customer : 24224026 US20: 53RD AVE - E. 60TH AVE  
Order : 123753 # 32420 - B/H LVL 3, 1/2"

P.O. :  
Product : 240322 5009 - OR53D30000 ODOT LVL3 13.93 Ton

TERMS: NET - CASH SALES PAYABLE  
UPON PICKUP OR DELIVERY.  
CHARGE SALES DUE AND PAYABLE  
BY THE 10TH OF MONTH FOLLOWING  
PURCHASE. A service charge of 1.5%  
per month, or a minimum of \$1.00, will  
be made on the unpaid balance at the  
end of the following month's billing  
cycle. This is an ANNUAL  
PERCENTAGE RATE OF 18%.  
PERSONAL NOTICE: We reserve the  
right to claim lien for all labor and  
material furnished on this job according  
to OREGON REVISED STATUTE  
87.021

Received : \_\_\_\_\_

CUSTOMER COPY

	<u>Pounds</u>	<u>Tons</u>	<u>Metric</u>
Gross	52480	26.24	23.80
Tare	24620	12.31	11.17
Net	27860	13.93	12.64

Ordered			
Remaining			
Today:	61.04	Loads:	4

Weighmaster: SCOTT.BOYSEN





Corvallis Asphalt

Ticket No.: 88070269

Date : 9/28/2022 Time : 7:27:27AM  
Vehicle : JC3 JOHNNY CLAUSEN SOLC  
Customer : 24224026 US20: 53RD AVE - E. 60TH AVE  
Order : 123753 # 32420 - B/H LVL 3, 1/2"

	Pounds	Tons	Metric
Gross	54600	27.30	24.77
Tare	24800	12.40	11.25
Net	29800	14.90	13.52

P.O. :  
Product : 240322 5009 - OR53D30000 ODOT LI 14.90 Ton

TERMS: NET - CASH SALES PAYABLE  
UPON PICKUP OR DELIVERY.  
CHARGE SALES DUE AND PAYABLE  
BY THE 10TH OF MONTH FOLLOWING  
PURCHASE. A service charge of 1.6%  
per month, or a minimum of \$1.00, will  
be made on the unpaid balance at the  
end of the following month's billing  
cycle. This is an ANNUAL  
PERCENTAGE RATE OF 18%.  
PERSONAL NOTICE: We reserve the  
right to claim lien for all labor and  
material furnished on this job according  
to OREGON REVISED STATUTE  
87.021

Ordered		
Remaining		
Today:	47.11	Loads: 3

Received : \_\_\_\_\_

Weighmaster: SCOTT.BOYSEN

TANGENT COPY



# KNIFE RIVER

AN MDU RESOURCES COMPANY

Corvallis Asphalt

Ticket No.:

**88070268**

Date: 9/28/2022 Time: 7:21:42AM  
 Vehicle: TM55 TERRY MAYFIELD TRUCI  
 Customer: 24224026 US20: 53RD AVE - E. 60TH AVE  
 Order: 123753 # 32420 - B/H LVL 3, 1/2"

	<u>Pounds</u>	<u>Tons</u>	<u>Metric</u>
Gross	54720	27.36	24.82
Tare	24840	12.42	11.27
Net	29880	14.94	13.55

P.O. :  
 Product: 240322 5009 - OR53D30000 ODOT L\ **14.94 Ton**

TERMS: NET - CASH SALES PAYABLE UPON PICKUP OR DELIVERY. CHARGE SALES DUE AND PAYABLE BY THE 10TH OF MONTH FOLLOWING PURCHASE. A service charge of 1.5% per month, or a minimum of \$1.00, will be made on the unpaid balance at the end of the following month's billing cycle. This is an ANNUAL PERCENTAGE RATE OF 18%. PERSONAL NOTICE: We reserve the right to claim lien for all labor and material furnished on this job according to OREGON REVISED STATUTE 87.021

Ordered		
Remaining		
Today:	32.21	Loads: 2

Received: \_\_\_\_\_

Weighmaster: SCOTT.BOYSEN

TANGENT COPY

7:58

1690+45 - 1693 +25 L

AJM

base



# KNIFE RIVER

AN MDU RESOURCES COMPANY

Corvallis Asphalt

Ticket No.:

**88070267**

Date: 9/28/2022 Time: 6:58:18AM

Vehicle: 0481902 KNIFE RIVER SOLO  
Customer: 24224026 US20: 53RD AVE - E. 60TH AVE  
Order: 123753 # 32420 - B/H LVL 3, 1/2"

P.O.:

Product: 240322 5009 - OR53D30000 ODOT LVL3 17.27 Ton

**TERMS: NET - CASH SALES PAYABLE UPON PICKUP OR DELIVERY. CHARGE SALES DUE AND PAYABLE BY THE 10TH OF MONTH FOLLOWING PURCHASE.** A service charge of 1.5% per month, or a minimum of \$1.00, will be made on the unpaid balance at the end of the following month's billing cycle. This is an ANNUAL PERCENTAGE RATE OF 18%.  
**PERSONAL NOTICE:** We reserve the right to claim lien for all labor and material furnished on this job according to OREGON REVISED STATUTE 87.021

Received: \_\_\_\_\_

	<u>Pounds</u>	<u>Tons</u>	<u>Metric</u>
Gross	61880	30.94	28.07
Tare	27340	13.67	12.40
Net	34540	17.27	15.67

Ordered			
Remaining			
Today:	17.27	Loads:	1

Weighmaster: SCOTT.BOYSEN

**CUSTOMER COPY**



Corvallis Asphalt

Ticket No.: **88070295**

Date: 9/28/2022 Time: 2:47:01PM

Vehicle : 0481902 KNIFE RIVER SOLO  
Customer : 24224026 US20: 53RD AVE - E. 60TH AVE  
Order : 123753 # 32420 - B/H LVL 3, 1/2"

P.O. :

Product : 240322 5009 - OR53D30000 ODOT LVL3 **17.36 Ton**

3:45 pm

1673+40

Received : \_\_\_\_\_

TERMS: NET - CASH SALES PAYABLE  
UPON PICKUP OR DELIVERY.  
CHARGE SALES DUE AND PAYABLE  
BY THE 10TH OF MONTH FOLLOWING  
PURCHASE. A service charge of 1.6%  
per month, or a minimum of \$1.00, will  
be made on the unpaid balance at the  
end of the following month's billing  
cycle. This is an ANNUAL  
PERCENTAGE RATE OF 18%.  
PERSONAL NOTICE: We reserve the  
right to claim lien for all labor and  
material furnished on this job according  
to OREGON REVISED STATUTE  
87.021

CUSTOMER COPY

	<u>Pounds</u>	<u>Tons</u>	<u>Metric</u>
Gross	61780	30.89	28.02
Tare	27060	13.53	12.27
Net	34720	17.36	15.75

Ordered		
Remaining		
Today:	244.81	Loads: 16

Weighmaster: SCOTT.BOYSEN

# **Curb and Sidewalk Example**



**Pay Note  
(Project Work Record)**

**Project Information**

<u>OR99W (Barbur Blvd) at SW Capitol Hwy Project</u>	<u>CON04417</u>	<u>011</u>	<u>08</u>	<u>01</u>	<u>15287</u>
<small>Project Name</small>	<small>EA</small>	<small>Subjob</small>	<small>Estimate</small>	<small>Pay Note</small>	<small>Contract</small>
<u>Monolithic Curb and Sidewalk</u>	<u>BI0540</u>	<u>Christopher Aguon, P.E.</u>	<u>Edwin Klaassen</u>		
<small>Item Description</small>	<small>Bid/Pay Item</small>	<small>Resident Engineer</small>	<small>Prepared by</small>		

**Method of Quality Assurance**

Quality Documentation*	F - Field Inspection Report (FIR)	QPL																																			
<input type="checkbox"/> E <input type="checkbox"/> O <input type="checkbox"/> L (Report #) <input type="checkbox"/> BG <input type="checkbox"/> I (Report #) <input type="checkbox"/> R <input type="checkbox"/> W <input type="checkbox"/> P/R <input type="checkbox"/> P <input type="checkbox"/> Q <input type="checkbox"/> M <input type="checkbox"/> T <input type="checkbox"/> Small Quantity <input type="checkbox"/> Field Tested Material	<table border="0" style="width:100%"> <tr> <td style="width:10%">New*</td> <td style="width:10%">Previous</td> <td style="width:10%">Estimate</td> <td style="width:10%">Pay Note</td> <td style="width:10%">Link (opt.)</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td align="center"><u>008</u></td> <td align="center"><u>001</u></td> <td></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> <td></td> <td></td> </tr> </table>	New*	Previous	Estimate	Pay Note	Link (opt.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>008</u>	<u>001</u>		<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/> No QPL <input checked="" type="checkbox"/> QPL - Approved <input checked="" type="checkbox"/> QPL - Qualified QPL # <u>5133</u> QPL # _____ QPL # _____ QPL # _____ Future QPL # _____
New*	Previous	Estimate	Pay Note	Link (opt.)																																	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>008</u>	<u>001</u>																																		
<input type="checkbox"/>	<input type="checkbox"/>																																				
<input type="checkbox"/>	<input type="checkbox"/>																																				
<input type="checkbox"/>	<input type="checkbox"/>																																				
<input type="checkbox"/>	<input type="checkbox"/>																																				
<input type="checkbox"/>	<input type="checkbox"/>																																				
<small>*Click on letters for definitions.</small>	<small>*Enter on New Field Inspection Information page below.</small>																																				

**Quantity Data**

<u>0.000</u>	<u>SF</u>	<input type="checkbox"/> Remeasurement	<u>2022.05.23</u>
<small>Previous Quantity</small>	<small>Unit</small>		<small>Installation Date</small>
<u>399.390</u> (+ or -)		<input checked="" type="checkbox"/> Measured in Place Method	<u>2022.05.23</u>
<small>Quantity This Note</small>		<input type="checkbox"/> Partial Payment	<small>Item Completion Date</small>
<u>399.390</u>		<input type="checkbox"/> Material on Hand (see Material on Hand page below)	
<small>Total Quantity to Date</small>			

**Calculations and/or Remarks**

Quantities for Monolithic Curb and Sidewalk is derived from Neat-Line Survey  
Neat-Line Survey attached as supporting documentation to this paynote

Concrete walk completed is on      Corner 03 - SE Corner Capitol Hwy & OR99W, & Capitol Block Face

- No Quality Documentation Required       Photos Attached       Illustration Attached

**Reviewed by**

<u>Matt Litchfield</u>	<u>2022.05.27</u>	<u>Matt Litchfield</u>	<u>2022.05.27</u>
<small>Quality Checked by</small>	<small>Date</small>	<small>Quantity Checked by</small>	<small>Date</small>





Pay Note (New Field Inspection)
(Project Work Record)

OR99W (Barbur Blvd) at SW Capitol Hwy Project BI0540 08 01 15287
Project Name Bid/Pay Item Estimate Pay Note Contract

Materials Delivered for this Project

Installation Monolithic Curb and Walk 2022.05.23 Wildish Standard Paving Co
Type of Material Date Delivered Delivered to (Name of Contractor/Subcontractor)
Faison Construction 0.00 N/A
Source of Material (Manufacturer or Fabricator) Quantity Rejected Rejection explanation/reason
399.39 SF 399.39 As described above
Quantity Delivered Unit Quantity Received Where inspected
399.39 410.00 Edwin Klaassen 51095
Total Accepted to Date Estimated Total Required Inspector Name Cert. #

Monolithic sidewalk completed as designed in contract, Wet-cure so no QPL for Cure, Special Concrete mix, see attachments. Elastomer QPL listed and attached, work was completed per specifications including removal of existing walk, listed in provisions and that located in Oregon Standard Specifications for Construction Section 759

Remarks

Materials Delivered for this Project

Type of Material Date Delivered Delivered to (Name of Contractor/Subcontractor)
Source of Material (Manufacturer or Fabricator) Quantity Rejected Rejection explanation/reason
Quantity Delivered Unit Quantity Received Where inspected
Total Accepted to Date Estimated Total Required Inspector Name Cert. #

Remarks

Materials Delivered for this Project

Type of Material Date Delivered Delivered to (Name of Contractor/Subcontractor)
Source of Material (Manufacturer or Fabricator) Quantity Rejected Rejection explanation/reason
Quantity Delivered Unit Quantity Received Where inspected
Total Accepted to Date Estimated Total Required Inspector Name Cert. #

Remarks



C15287  
 OR99W (Barbur Blvd) at SW Capitol Hwy  
 BI0670, Concrete Walks  
 Neatline by Microstation Surface Area A-Tool  
 Prepared by Minh Duong 04/19/2022



14.56 Sq Ft

7.30 Sq Ft

258.49 Sq Ft

"B" 126+00

"C" 158+00

399.39 Sq Ft

112.99 Sq Ft

 BI0660 Concrete Driveways

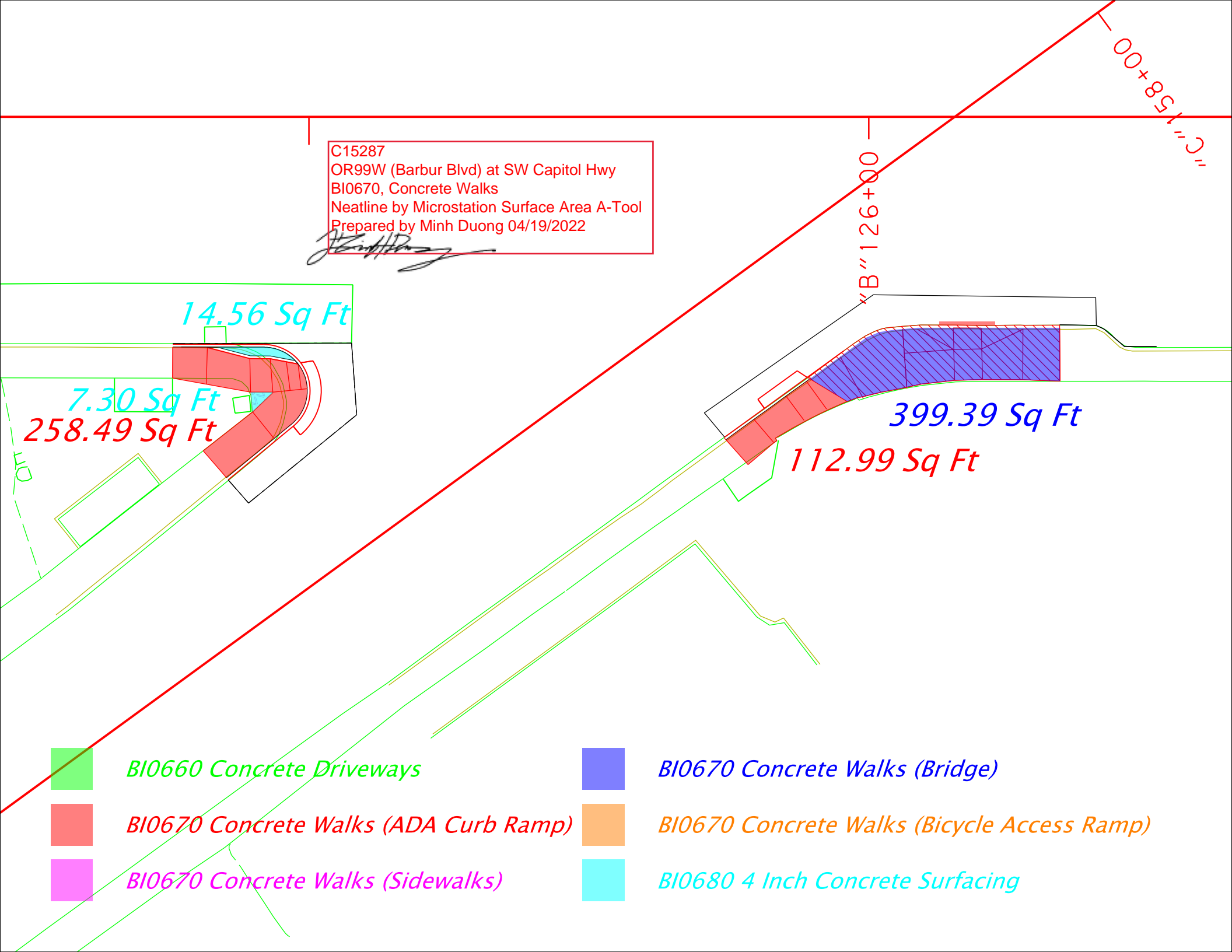
 BI0670 Concrete Walks (ADA Curb Ramp)

 BI0670 Concrete Walks (Sidewalks)

 BI0670 Concrete Walks (Bridge)

 BI0670 Concrete Walks (Bicycle Access Ramp)

 BI0680 4 Inch Concrete Surfacing





02/22/2022

## **FAISON CONSTRUCTION**

### **PROJECT: OR 99W BARBUR BLVD SW CAPITOL HWY PROJECT**

The enclosed concrete mix designs are being submitted for use on the above project. All mix designs are designed based on specification information provided. These mix designs will be produced in conformance with applicable codes and specification and shall be tested in accordance with ASTM, AASHTO, ODOT and/or WSDOT procedures.

ASTM C94 Section 4.6 states "...The purchaser shall ensure that the manufacturer is provided copies of all reports of tests performed on concrete samples...Reports shall be provided on a timely basis." In accordance with the specification, approval of these mix designs carries with it CalPortland's inclusion on the distribution list for all concrete test reports.

ACI 301 16.7.4.3 states "to facilitate testing and inspection, the contractor shall provide and maintain for the sole use of the testing agency adequate facilities for safe storage and proper curing of concrete test specimens on the project site for the first 24 hours as required by ASTM C31." **CalPortland does not guarantee field cured cylinders. Proper curing for early strength is the responsibility of the contractor.**

The cement used on this project will conform to ASTM C150, AASHTO M85, and are approved per ODOT and/or WSDOT Standard Specifications.

Pozzolanic materials used on this project will conform to ASTM C618, AASHTO M295, and are approved per ODOT and/or WSDOT Standard Specifications.

Ground Granulated Blast Furnace Slag used on this project will conform to ASTM C989, AASHTO M302, and are approved per ODOT and/or WSDOT Standard Specifications.

Aggregates used on this project will conform to ASTM C33 and are approved per ODOT and/or WSDOT Standard Specifications.

Air-entrainment used on this project will conform to ASTM C260 and are approved per ODOT and/or WSDOT Standard Specifications.

All other chemical admixtures used on this project will conform to ASTM C494 and are approved per ODOT and/or WSDOT Standard Specifications.

When ordering concrete, it is the customer's responsibility to order the approved mix number for the project and application. When ice, hot water, accelerator, retarder, or high-range water reducer is needed to meet project specifications, it is the contractor's responsibility and cost to order the proper materials.

CalPortland mix designs (strength, slump, air, and unit weight) are based on testing at the truck discharge per ASTM standards. **CalPortland will not be responsible for these plastic and hardened qualities due to pumping or other methods of conveying.**

If you have any questions please contact, Greg Hendrix CCT: 49905 at in our Technical Services Department.



## Concrete Design Submittal Summary

02/22/2022

To: **FAISON CONSTRUCTION**  
RE: **OR 99W BARBUR BLVD SW CAPITOL HWY PROJECT**

Thank you for the opportunity to provide materials for this project. The mixes chosen for this submittal were based on the documents provided by and conversations had with the requesting party.

**The mixes below have been included with this submittal for your review:**

Mix	Use	Slump	Air	W/CM
0766 5000PSI +AEA CITY OF PT	5000 PSI AT 28 DAYS	4"+/-1"	4.5%+/-1.5%	0.38

Concrete mix designs are submitted to meet project specifications. Acceptable material performance is based on proper testing and protection of concrete and concrete samples. Concrete mix design ingredients may be adjusted to maintain yield, consistency and performance. Similar materials, with proven performance, may be substituted at the supplier's discretion. Concrete will be batched in accordance with the applicable portions of the ASTM C94 standards unless otherwise agreed upon.

Additional Project Submittal Information:

Sincerely,

**Greg Hendrix CCT: 49905**  
**ghendrix@calportland.com**

*This submittal contains proprietary, confidential, and legally privileged information. Disclosure, copying, and distribution without express written permission are strictly prohibited.*



**CALPORTLAND®**  
Concrete Mix Submittal

Front Ave  
5075 Front Ave  
Portland, OR 97228  
503-535-7708

Submittal Information	Mix Information
-----------------------	-----------------

Submittal Name OR 99W BARBUR BLVD SW CAPITOL HWY PROJECT	Mix ID 0766
Date Submitted 02/22/2022	Mix Name 5000PSI +AEA CITY OF PT
Customer FAISON CONSTRUCTION	Compressive Strength (f'c) 5000 psi @ 28 Days
Project Name OR 99W BARBUR BLVD SW CAPITOL HWY PROJECT	Aggregate Nominal Size 1" (25mm)
Use 5000 PSI AT 28 DAYS	Air Entrained <input checked="" type="checkbox"/>

Mix Properties					
----------------	--	--	--	--	--

Slump 4"+/-1"	Sack Content 7.8 94 lb/sack	Total Mass 3923 lb
Air 4.5%+/-1.5%	Total Water 33.6 gal	Total Volume 27.00 ft3
W/CM Ratio 0.38	Water/Sack 4.3 gal	Unit Weight 145.3 lb/ft3

Group	Material Description	Supplier	Absorption	Specific Gravity	Mass lb	Volume ft3
Cement	Portland Type I/II CEMENT	CalPortland		3.15	730	3.714
Aggregate	Coarse Aggregate 1" - #4 DRUW: 108 lb/ft3	CALPORTLAND #05-004-1 - SANTOSH	1.4	2.7	1875	11.129
	Fine Aggregate CON SAND DRUW: 102.9 lb/ft3	CALPORTLAND #05-004-1 - SANTOSH	2.9	2.59	1035	6.407
Water	Potable Water WATER-1			1	280	4.487
Admixture	Air Entrainer AE-90 Dosage: 2.5 fl oz/yd3	BASF		1	0.163	0.00261
	Water Reducer ZYLA 630 Dosage: 3 fl oz/100 lb CM	GCP APPLIED TECHNOLOGIES		1	1.427	0.02287
	Water Reducer High Range MASTERGLENium 1466 Dosage: 3 fl oz/100 lb CM	BASF		1	1.427	0.02287
Air	Air					1.215

Submittal Notes CON SAND FM = 2.55

QPL:  
CEMENT - 4671  
MASTERGLENium 1466 - 3238  
ZYLA 630 - 3731  
AE 90 - 1163

Contact Greg Hendrix CCT: 49905

Email ghendrix@calportland.com



# CALPORTLAND®

## Concrete Mix Evaluation Report

ACI 318 Required Average Strength

Mix ID 0766  
 Mix Name 5000PSI +AEA CITY OF PT  
 Design Strength (f'c) 5000 psi @ 28 Days  
 Required Strength (f'cr) 5840 psi @ 28 Days

Number Of Tests 30  
 Average Strength 6445 psi  
 St Dev 573 psi  
 St Dev (Modified) 573 psi

Test Date	Mix	Lab	Temp (Concrete) (°F)	Slump (in)	Air Content (%)	Unit Weight (lb/ft3)	Comp Strength (7-Day) (psi)	Acceptance Strength (28-Day) (psi)	Moving Average (psi)
09/01/2020	0766	Carlson Testing Lab	85	5	5		5520	6710	
09/02/2020	0766	Carlson Testing Lab	79	4	4.6		6220	7240	
09/04/2020	0766	CalPortland Lab	85	6	5		5130	6220	6723
09/08/2020	0766	Carlson Testing Lab	83	5	4.2		4980	6250	6570
09/09/2020	0766	Carlson Testing Lab	82	5	4.1		5260	6690	6387
09/14/2020	0766	Carlson Testing Lab	86	4	6			5660	6200
09/21/2020	0766	Carlson Testing Lab	83	6	5.1		4990	5900	6083
10/15/2020	0766	CWE Lab	76	3	2.1	148.2	5620	6250	5937
10/20/2020	0766	Carlson Testing Lab	81	4.75	4.5		5150	6320	6157
11/05/2020	0766	CP	73	6.75	6		4880	6220	6263
11/12/2020	0766	Carlson Testing Lab	65	4.5	4.5		6260	7110	6550
11/13/2020	0766	Carlson Testing Lab	69	4.5	4.6		5450	6590	6640
11/25/2020	0766	Carlson Testing Lab	60	3.5	4.5		6080	7280	6993
12/09/2020	0766	Carlson Testing Lab	64	5	4.8		5970	7120	6997
12/31/2020	0766	Carlson Testing Lab	85	5.5	4.8		5080	6040	6813
01/20/2021	0766	Carlson Testing Lab	73	4.5	4.7		5830	6800	6653
02/04/2021	0766	Carlson Testing Lab	72	4	4.6		5070	5910	6250
03/09/2021	0766	Carlson Testing Lab	68	5	5.3		4200	5730	6147
03/18/2021	0766	PSI Lab	64	8.5	2.1		5510	8070	6570
04/06/2021	0766	Carlson Testing Lab	73	4.5	6		5420	6660	6820
04/06/2021	0766	CalPortland Lab	62	4.5	6		5600	6550	7093
05/07/2021	0766	CalPortland Lab	68	5.75	5.8	142.91	3610	6320	6510
05/13/2021	0766	Carlson Testing Lab	71	4.5	4.7		5130	6430	6433
05/18/2021	0766	Carlson Testing Lab	76	3.5	4.5		4860	5630	6127
05/18/2021	0766	CWE Lab	72	4.75	3.8	144.2	4730	5910	5990
07/12/2021	0766	CalPortland Lab	76	4.5	5		5080	6530	6023
07/19/2021	0766	Carlson Testing Lab	81	4.75	0.6		5490	6720	6387
08/06/2021	0766	CWE Lab	78	4.75	4.3	144.5	4670	5520	6257
08/16/2021	0766	CWE Lab	84	4.75	3.2	146.5	5640	6890	6377



# CALPORTLAND®

## Concrete Mix Evaluation Report

ACI 318 Required Average Strength

Mix ID	0766	Number Of Tests	30
Mix Name	5000PSI +AEA CITY OF PT	Average Strength	6445 psi
Design Strength (f'c)	5000 psi @ 28 Days	St Dev	573 psi
Required Strength (f'cr)	5840 psi @ 28 Days	St Dev (Modified)	573 psi

Test Date	Mix	Lab	Temp (Concrete) (°F)	Slump (in)	Air Content (%)	Unit Weight (lb/ft3)	Comp Strength (7-Day) (psi)	Acceptance Strength (28-Day) (psi)	Moving Average (psi)
08/17/2021	0766	CWE Lab	79	4.75	4.7	145.4	4910	6080	6163



# CALPORTLAND®

## Combined Aggregate Blend Report

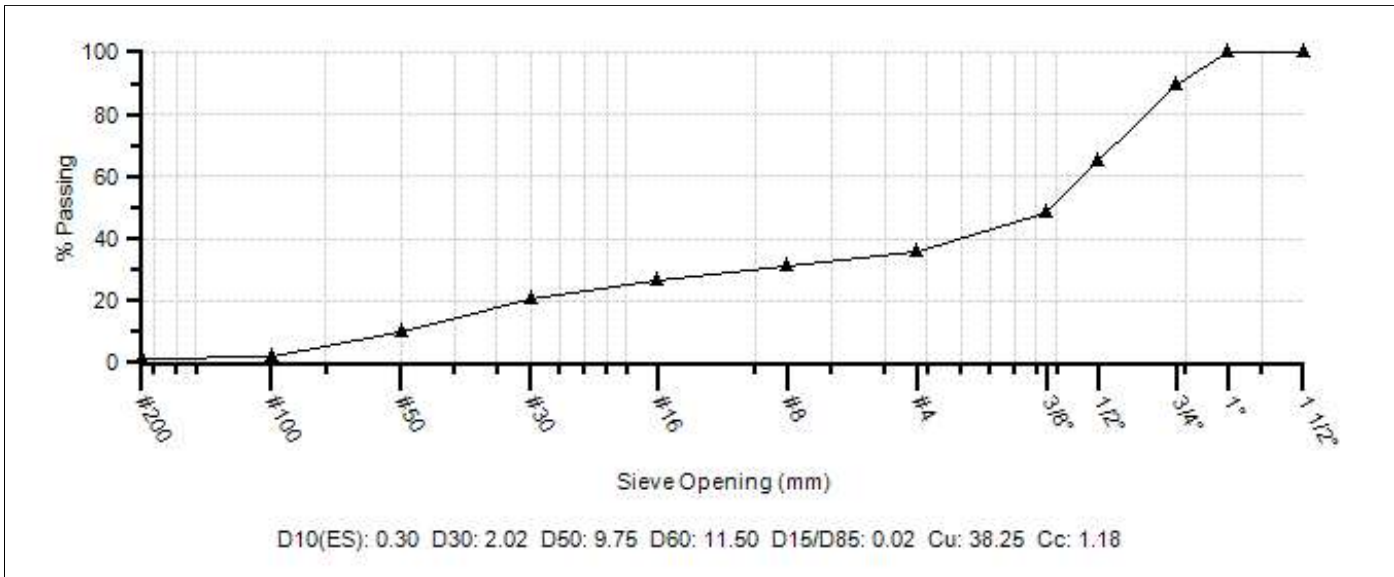
Mix ID 0766  
 Mix Name 5000PSI +AEA CITY OF PT  
 Design Strength (f'c) 5000 psi @ 28 Days  
 Specification

Nominal Max Size 1" (25mm)  
 Aggregate Volume 17.5  
 Coarse Aggregate % 64.4  
 Fine Aggregate % 35.6

### % Passing Gradations

Aggregate Type	Coarse	Fine
% Contribution	64.4	35.6

Sieve/Test	Spec	Result	1" - #4	CON SAND
1 1/2" (37.5mm)		100.0	100.0	100.0
1" (25mm)		99.7	99.5	100.0
3/4" (19mm)		89.6	83.9	100.0
1/2" (12.5mm)		65.1	45.8	100.0
3/8" (9.5mm)		48.4	19.9	100.0
#4 (4.75mm)		35.6	1.7	97.0
#8 (2.36mm)		31.0	1.0	85.4
#16 (1.18mm)		26.5	0.9	72.7
#30 (.6mm)		20.6	0.8	56.3
#50 (.3mm)		10.0	0.7	26.7
#100 (.15mm)		2.3	0.6	5.2
#200 (75µm)		1.07	0.55	2.00
Pan		0.00	0.00	0.00





## Manufacturer's Certification

Report Date: 1/5/2022

We hereby certify that CalPortland Type I/II Cement meets the standard requirements of ASTM C150 and AASHTO M85 specification for Type I and Type II cements. Reported are the average chemical and physical data for the lot.

Lot #: 22-001

Type I / II Cement

Source: SsangYong, So. Korea

Chemical Properties	ASTM C150 and AASHTO M85 Requirements		Analysis	Limestone
	Type I	Type II	Results	Analysis
Silicon dioxide (SiO <sub>2</sub> ), %	---	---	19.7	8.6
Aluminum oxide (Al <sub>2</sub> O <sub>3</sub> ), max, %	---	6.0	4.7	3.3
Ferric oxide (Fe <sub>2</sub> O <sub>3</sub> ), max, %	---	6.0	3.3	1.6
Calcium oxide (CaO), %	---	---	62.0	45.4
Magnesium oxide (MgO), max, %	6.0	6.0	4.3	3.3
Sulfur trioxide (SO <sub>3</sub> ), max, %	3.0	3.0	2.7	0.0
Loss on ignition (LOI), max, %	3.5	3.5	1.6	
Insoluble residue (IR), max, %	1.5	1.5	0.5	Base
Alkalies (Na <sub>2</sub> O+0.658*K <sub>2</sub> O), %	---	---	0.53	Cement
Tricalcium silicate (C <sub>3</sub> S), %	---	---	56	58
Dicalcium silicate (C <sub>2</sub> S), %	---	---	14	14
Tricalcium aluminate (C <sub>3</sub> A), max, %	---	8	7	7
Tetracalcium aluminoferrite (C <sub>4</sub> AF), %	---	---	10	10
CO <sub>2</sub> , %	---	---	1.2	
Limestone addition, max, %	5.0	5.0	3.3	Chloride content - 0.02%
CaCO <sub>3</sub> in Limestone, min, %	70	70	84	

### Physical Properties

Air content of mortar, max, volume %	12	12	8
Blaine Fineness, min, m <sup>2</sup> /kg	260	260	433
Autoclave expansion, max, %	0.80	0.80	0.07
Compressive Strength, min			
1 Day, psi	---	---	2140
3 Day, MPa	12.0	10.0	31.3
3 Day, psi	1740	1450	4540
7 Day, MPa	19.0	17.0	33.4
7 Day, psi	2760	2470	4850
28 Day (from previous lot), MPa	---	---	44.5
28 Day (from previous lot), psi	---	---	6450
Vicat Setting Time, min-max, minutes	45 - 375	45 - 375	136

Apparatus and methods used in this laboratory have been checked by the Cement and Concrete Reference Laboratory of the National Institute of Standards and Technology. A copy of the report detailing their findings is available upon request. Major oxides are analyzed in accordance with ASTM C114.

Kevin Wolf - Director of Technical Services



## Description

MB-AE 90 air-entraining admixture is for use in concrete mixtures. It meets the requirements of ASTM C 260, AASHTO M 154 and CRD-C 13.

## Applications

Recommended for use in:

- Concrete exposed to cyclic freezing and thawing
- Production of high-quality normal or lightweight concrete (heavyweight concrete normally does not contain entrained air)

# MB-AE™ 90

## Air-Entraining Admixture

### Features

- Ready-to-use in the proper concentration for rapid, accurate dispensing

### Benefits

- Improved resistance to damage from cyclic freezing and thawing
- Improved resistance to scaling from deicing salts
- Improved plasticity and workability
- Reduced permeability – increased watertightness
- Reduced segregation and bleeding

### Performance Characteristics

Concrete durability research has established that the best protection for concrete from the adverse effects of freezing and thawing cycles and deicing salts results from: proper air content in the hardened concrete, a suitable air-void system in terms of bubble size and spacing, and adequate concrete strength, assuming the use of sound aggregates and proper mixing, transporting, placing, consolidation, finishing and curing techniques. MB-AE 90 admixture can be used to obtain adequate freeze-thaw durability in a properly proportioned concrete mixture, if standard industry practices are followed.

**Air Content Determination:** The total air content of normal weight concrete should be measured in strict accordance with ASTM C 231, “Standard Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method” or ASTM C 173/C 173M, “Standard Test Method for Air Content of Freshly Mixed Concrete by the Volumetric Method.”

The air content of lightweight concrete should only be determined using the Volumetric Method. The air content should be verified by calculating the gravimetric air content in accordance with ASTM C 138/C 138M, “Standard Test Method for Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete.” If the total air content, as measured by the Pressure Method or Volumetric Method and as verified by the Gravimetric Method, deviates by more than 1-1/2%, the cause should be determined and corrected through equipment calibration or by whatever process is deemed necessary.

### Guidelines for Use

**Dosage:** There is no standard dosage for MB-AE 90 admixture. The exact quantity of air-entraining admixture needed for a given air content of concrete varies because of differences in concrete-making materials and ambient conditions. Typical factors that might influence the amount of air entrained include: temperature, cementitious materials, sand gradation, sand-aggregate ratio, mixture proportions, slump, means of conveying and placement, consolidation and finishing technique.

## Product Data: MB-AE™ 90

The amount of MB-AE 90 admixture used will depend upon the amount of entrained air required under actual job conditions. In a trial mixture, use 1/4 to 4 fl oz/cwt (16-260 mL/100 kg) of cementitious material. Measure the air content of the trial mixture, and, if needed, either increase or decrease the quantity of MB-AE 90 admixture to obtain the desired air content.

In mixtures containing water-reducing or set-control admixtures, the amount of MB-AE 90 admixture needed may be somewhat less than the amount required in plain concrete.

Due to possible changes in the factors that can affect the dosage of MB-AE 90 admixture, frequent air content checks should be made during the course of the work. Adjustments to the dosage should be based on the amount of entrained air required in the mixture at the point of placement.

If an unusually high or low dosage of MB-AE 90 admixture is required to obtain the desired air content, consult your BASF Construction Chemicals representative. In such cases, it may be necessary to determine that, in addition to a proper air content in the fresh concrete, a suitable air-void system is achieved in the hardened concrete.

**Dispensing and Mixing:** Add MB-AE 90 admixture to the concrete mixture using a dispenser designed for air-entraining admixtures, or add manually using a suitable measuring device that ensures accuracy within plus or minus 3% of the required amount.

For optimum, consistent performance, the air-entraining admixture should be dispensed on damp, fine aggregate. If the concrete mixture contains fine lightweight aggregate, field evaluations should be conducted to determine the best method to dispense the air-entraining admixture.

### Precaution

In a 2005 publication from the Portland Cement Association (PCA R&D Serial No. 2789), it was reported that problematic air-void clustering that can potentially lead to above normal decreases in strength was found to coincide with late additions of water to air-entrained concretes. Late additions of water include the conventional practice of holding back water during batching for addition at the jobsite. Therefore, caution should be exercised with delayed additions of water to air-entrained concrete. Furthermore, an air content check should be performed after any post-batching addition to an air-entrained concrete mixture.

### BASF Construction Chemicals, LLC Admixture Systems

[www.masterbuilders.com](http://www.masterbuilders.com)

United States 23700 Chagrin Boulevard, Cleveland, Ohio 44122-5544 ■ Tel: 800 628-9990 ■ Fax: 216 839-8821  
Canada 1800 Clark Boulevard, Brampton, Ontario L6T 4M7 ■ Tel: 800 387-5862 ■ Fax: 905 792-0651

™BASF Construction Chemicals, LLC

© BASF Construction Chemicals, LLC 2007 ■ Printed in USA ■ 03/07 ■ LIT # 1017027

### Product Notes

**Corrosivity – Non-Chloride, Non-Corrosive:** MB-AE 90 admixture will neither initiate nor promote corrosion of reinforcing and prestressing steel embedded in concrete, or of galvanized floor and roof systems. No calcium chloride or other chloride-based ingredients are used in the manufacture of this admixture.

**Compatibility:** MB-AE 90 admixture may be used in combination with any BASF Construction Chemicals admixture, unless stated otherwise on the data sheet for the other product. When used in conjunction with other admixtures, each admixture must be dispensed separately into the concrete mixture.

### Storage and Handling

**Storage Temperature:** MB-AE 90 admixture should be stored and dispensed at 31 °F (-0.5 °C) or higher. Although freezing does not harm this product, precautions should be taken to protect it from freezing. If MB-AE 90 admixture freezes, thaw at 35 °F (2 °C) or above and completely reconstitute by mild mechanical agitation. **Do not use pressurized air for agitation.**

**Shelf Life:** MB-AE 90 admixture has a minimum shelf life of 18 months. Depending on storage conditions, the shelf life may be greater than stated. Please contact your BASF Construction Chemicals representative regarding suitability for use and dosage recommendations if the shelf life of MB-AE 90 admixture has been exceeded.

**Safety:** Chemical goggles and gloves are recommended when transferring or handling this material.

### Packaging

MB-AE 90 admixture is supplied in 55 gal (208 L) drums, 275 gal (1040 L) totes and by bulk delivery.

### Related Documents

Material Safety Data Sheets: MB-AE 90 admixture.

### Additional Information

For additional information on MB-AE 90 admixture, or its use in developing a concrete mixture with special performance characteristics, contact your BASF Construction Chemicals representative.

*The Admixture Systems business of BASF Construction Chemicals is a leading provider of innovative additives for specialty concrete used in the ready mix, precast, manufactured concrete products, underground construction and paving markets throughout the NAFTA region. The Company's respected Master Builders brand products are used to improve the placing, pumping, finishing, appearance and performance characteristics of concrete.*



**Master  
Builders**

# ZYLA<sup>®</sup> 630

Water-reducing admixture -- ASTM C494 Type A and D

---

## Product Description

ZYLA<sup>®</sup> 630 water-reducing admixture is a proprietary formulation incorporating highly purified specialty organic chemicals. ZYLA<sup>®</sup> 630 promotes more complete hydration of Portland cement and has no effect on concrete air entrainment.

The ZYLA<sup>®</sup> product line of water reducers is specially formulated to have a synergistic effect with polycarboxylate-based mid-range and high-range water reducers that improve flat-work finishability. This product contains no intentionally added chloride and as such is essentially chloride free. It is manufactured under rigid controls that provide uniform, predictable performance. ZYLA<sup>®</sup> 630 is supplied as a light brown, low viscosity liquid, and is ready-to-use as received. One gallon weighs approximately 9.1 lbs (1.1 kg/L).

## Product Advantages

- No impact on concrete air content
- Better control of water reduction and setting times as compared to traditional lignin-based water reducers
- Synergistic performance of polycarboxylate-based mid-range and high-range water reducers, which includes water reduction, concrete strength and air control
- In the hardened state, improves the compressive and flexural strengths at all ages of concrete versus traditional lignin-based water reducers

## Uses

ZYLA<sup>®</sup> 630 is used to produce concrete mixes with lower water content (typically 3% to 10% reduction), greater plasticity and higher compressive strengths. ZYLA<sup>®</sup> 630 is suitable for normal weight and light weight concrete in ready-mix, precast and prestressed applications.

## Finishability

The unique chemistry of ZYLA<sup>®</sup> 630 positively impacts the finishability of concrete by providing a creamier and more homogenous texture, with more uniform bleed rate relative to traditional lignin-based water reducers. The influence of ZYLA<sup>®</sup> 630 on the finishability of lean mixes has been particularly noticeable. Floating and troweling, by machine or hand, imparts a smooth, close tolerance surface.

## Addition Rates

The addition rate range of 3 to 5 fl oz/100 lbs (195 to 325 mL/ 100 kg) of cement or cementitious is typical for most applications. However addition rates of 2 to 7 fl oz/100 lbs (130 to 455 mL/100 kg) of cement or cementitious may be used if local testing shows acceptable performance. Pretesting is required to determine the appropriate addition rate for desired performance. The optimum addition rate depends on the other concrete mixture components, job conditions, and desired performance characteristics.

## Compatibility with Other Admixtures and Batch Sequencing

ZYLA® 630 is compatible with most GCP admixtures as long as they are added separately to the concrete mix, usually through the water holding tank discharge line. In general, it is recommended that ZYLA® 630 be added to the concrete mix near the end of the batch sequence for optimum performance. Different sequencing may be used if local testing shows better performance. Please see GCP Technical Bulletin TB-0110, *Admixture Dispenser Discharge Line Location and Sequencing for Concrete Batching Operations* for further recommendations.

Pretesting of the concrete mix should be performed before use, as conditions and materials change in order to assure compatibility, and to optimize dosage rates, addition times in the batch sequencing and concrete performance. For concrete that requires air entrainment, the use of an ASTM C260 air-entraining agent (such as DARAVAIR® or DAREX® product lines) is recommended to provide suitable air void parameters for freeze-thaw resistance. Please consult your GCP Applied Technologies representative for guidance.

## Packaging & Handling

ZYLA® 630 is available in bulk, delivered by metered tank trucks, in totes, and in drums.

ZYLA® 630 will freeze at about 28°F (-2°C), but will be completely uniform after thawing and thorough agitation.

## Dispensing Equipment

A complete line of accurate, automatic dispensing equipment is available. ZYLA® 630 may be introduced to the mix through the water holding tank discharge line. The ZYLA® product line is formulated to be free of sediment.

## Specifications

Concrete shall be designed in accordance with *Standard Recommended Practice for Selecting Proportions for Concrete*, ACI 211.

The water-reducing admixture shall be ZYLA® 630, as manufactured by GCP Applied Technologies, or equal. The admixture shall not contain calcium chloride as a functional ingredient. ZYLA® 630 will not promote corrosion of reinforcing steel embedded in concrete. It shall be used in strict accordance with the manufacturers' recommendations. The admixture shall comply with ASTM Designation C494, Type A and D water-reducing admixtures. Certification of compliance shall be made available on request.

The admixture shall be delivered as a ready-to-use liquid product and shall require no mixing at the batching plant or job site.

[gcpat.com](http://gcpat.com) | North America Customer Service: 1 877-4AD-MIX1 (1 877-423-6491)

We hope the information here will be helpful. It is based on data and knowledge considered to be true and accurate, and is offered for consideration, investigation and verification by the user, but we do not warrant the results to be obtained. Please read all statements, recommendations, and suggestions in conjunction with our conditions of sale, which apply to all goods supplied by us. No statement, recommendation, or suggestion is intended for any use that would infringe any patent, copyright, or other third party right.

ZYLA, DARAVAIR, and DAREX are trademarks, which may be registered in the United States and/or other countries, of GCP Applied Technologies Inc. This trademark list has been compiled using available published information as of the publication date and may not accurately reflect current trademark ownership or status.

© Copyright 2018 GCP Applied Technologies Inc.

All rights reserved. GCP Applied Technologies Inc., 62 Whittemore Avenue, Cambridge, MA 02140 USA. In Canada, 294 Clements Road, West, Ajax, Ontario, Canada L1S 3C6.

This document is only current as of the last updated date stated below and is valid only for use in the United States. It is important that you always refer to the currently available information at the URL below to provide the most current product information at the time of use. Additional literature such as Contractor Manuals, Technical Bulletins, Detail Drawings and detailing recommendations and other relevant documents are also available on [www.gcpat.com](http://www.gcpat.com). Information found on other websites must not be relied upon, as they may not be up-to-date or applicable to the conditions in your location and we do not accept any responsibility for their content. If there are any conflicts or if you need more information, please contact GCP Customer Service.

Last Updated: 2018-08-24

[gcpat.com/solutions/products/zyla-water-reducing-admixtures/zyla-630](http://gcpat.com/solutions/products/zyla-water-reducing-admixtures/zyla-630)

# MasterGlenium<sup>®</sup> 1466

## High-Range Water-Reducing Admixture

### Description

MasterGlenium 1466 ready-to-use high-range water-reducing admixture is a new generation, patent pending admixture based on polycarboxylate chemistry. MasterGlenium 1466 admixture is very effective in producing concretes with different levels of workability.

MasterGlenium 1466 admixture is particularly effective in improving concrete mixtures with reduced portland cement contents without compromising 28-day strength requirements. MasterGlenium 1466 admixture meets ASTM C 494/C 494M requirements for Type A, water-reducing, and Type F, high-range water-reducing, admixtures.

### Applications

Recommended for use in:

- Concrete with varying water reduction requirements (5-40%)
- Concrete where high flowability, increased stability and durability are needed
- Producing self-consolidating concrete (SCC)
- Strength-on-demand concrete, such as 4x4<sup>™</sup> Concrete
- Pervious concrete

### Features

- Maximum dosage effectiveness for a given water reduction
- Controlled rheology
- Robust air-entraining admixture compatibility
- Improved strength development

### Benefits

- Can be used in a wide variety of concrete mixtures as a Type A or Type F admixture
- Improved finishability and surface appearance
- Mixture development flexibility for cement reductions and/or increased use of supplementary cementitious materials

### Performance Characteristics

**Compressive Strength:** Concrete produced with MasterGlenium 1466 admixture achieves significantly higher 28-day compressive strength compared to plain concrete and concrete mixtures containing naphthalene, melamine, and early generation polycarboxylate high-range water-reducing admixtures.

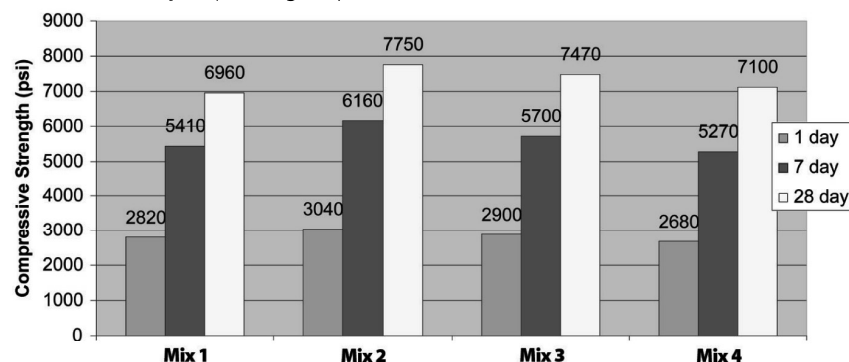
**Mixture Data:** Type I portland cement; Ambient Temperature, 70 °F (21 °C)

Mix 1: 620 lb/yd<sup>3</sup> (367 kg/m<sup>3</sup>); w/c = 0.43; Conventional PC HRWR

Mix 2: 620 lb/yd<sup>3</sup> (367 kg/m<sup>3</sup>); w/c = 0.43; MasterGlenium 1466

Mix 3: 600 lb/yd<sup>3</sup> (356 kg/m<sup>3</sup>); w/c = 0.44; MasterGlenium 1466

Mix 4: 580 lb/yd<sup>3</sup> (344 kg/m<sup>3</sup>); w/c = 0.46; MasterGlenium 1466



## Guidelines for Use

**Dosage:** MasterGlenium 1466 admixture has a recommended dosage range of 2-10 fl oz/cwt (130-650 mL/100 kg) of cementitious materials. For most applications, dosages in the range of 2-6 fl oz/cwt (130-390 mL/100 kg) will provide excellent performance. Because of variations in concrete materials, job site conditions and/or applications, dosages outside of the recommended range may be required. In such cases, contact your local sales representative.

**Mixing:** MasterGlenium 1466 admixture can be added with the initial batch water or as a delayed addition. However, optimum water reduction is generally obtained with a delayed addition.

## Product Notes

**Corrosivity – Non-Chloride, Non-Corrosive:** MasterGlenium 1466 admixture will neither initiate nor promote corrosion of reinforcing steel embedded in concrete, prestressing steel or of galvanized steel floor and roof systems. Neither calcium chloride nor other chloride-based ingredients are used in the manufacture of MasterGlenium 1466 admixture.

**Compatibility:** MasterGlenium 1466 admixture is compatible with most admixtures used in the production of quality concrete, including normal, mid-range and high-range water-reducing admixtures, air-entrainers, accelerators, retarders, extended set control admixtures, corrosion inhibitors, and shrinkage reducers.

**Do not use MasterGlenium 1466 admixture with admixtures containing naphthalene sulfonate. Erratic behaviors in slump, workability retention and pumpability may be experienced.**

## Storage and Handling

**Storage Temperature:** MasterGlenium 1466 admixture must be stored at temperatures above 40 °F (5 °C). If MasterGlenium 1466 admixture freezes, thaw and reconstitute by mechanical agitation. **Do not use pressurized air for agitation.**

**Shelf Life:** MasterGlenium 1466 admixture has a minimum shelf life of 6 months. Depending on storage conditions, shelf life may be greater than standard. Please contact your local sales representative regarding suitability for use and dosage recommendations if the shelf life of MasterGlenium 1466 admixture has been exceeded.

## Packaging

MasterGlenium 1466 admixture is supplied in 55 gal (208 L) drums, 275 gal (1040 L) totes and by bulk delivery.

## Related Documents

Safety Data Sheets: MasterGlenium 1466 admixture

## Additional Information

For additional information on MasterGlenium 1466 admixture or its use in developing concrete mixtures with special performance characteristics, contact your local sales representative.

*The Admixture Systems business of BASF's Construction Chemicals division is the leading provider of solutions that improve placement, pumping, finishing, appearance and performance characteristics of specialty concrete used in the ready-mixed, precast, manufactured concrete products, underground construction and paving markets. For over 100 years we have offered reliable products and innovative technologies, and through the Master Builders Solutions brand, we are connected globally with experts from many fields to provide sustainable solutions for the construction industry.*

## Limited Warranty Notice

BASF warrants this product to be free from manufacturing defects and to meet the technical properties on the current Technical Data Guide, if used as directed within shelf life. Satisfactory results depend not only on quality products but also upon many factors beyond our control. BASF MAKES NO OTHER WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO ITS PRODUCTS. The sole and exclusive remedy of Purchaser for any claim concerning this product, including but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is shipment to purchaser of product equal to the amount of product that fails to meet this warranty or refund of the original purchase price of product that fails to meet this warranty, at the sole option of BASF. Any claims concerning this product must be received in writing within one (1) year from the date of shipment and any claims not presented within that period are waived by Purchaser. BASF WILL NOT BE RESPONSIBLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDING LOST PROFITS) OR PUNITIVE DAMAGES OF ANY KIND.

Purchaser must determine the suitability of the products for the intended use and assumes all risks and liabilities in connection therewith. This information and all further technical advice are based on BASF's present knowledge and experience. However, BASF assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights, nor shall any legal relationship be created by or arise from the provision of such information and advice. BASF reserves the right to make any changes according to technological progress or further developments. The Purchaser of the Product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with a full application of the product(s). Performance of the product described herein should be verified by testing and carried out by qualified experts.



Contract No.: REG 1 QA EA No.: QA1000 000 Lab No.: 21-001941  
Project: REGION 1 COMMERCIAL PRODUCT - SANTOSH PLANT 05-004-1  
Highway: County: Data Sheet No.: F50816 078  
Contractor: FA No.:  
Project Manager: BARB WORBINGTON Org Unit: 7840 Bid Item No.:  
Submitted By: ERIC EGGE Org Unit: CALP Sample No.:  
Material Source: 05-004-1 SANTOSH PIT Qty Represented: 12 MONTHS  
Sampled At: STOCKPILE Sampled By: Witnessed By: M EIXENBERGER  
DATE-Sampled: 21/ 8/26 Received: 21/ 8/27 Tested: 21/ 9/10 Date Reported: 21/ 9/13  
Class/Type: COMPLIANCE Use: FINE PCC AGGR

Q or G: GRAVEL

AGGREGATE LABORATORY REPORT - FPCCAG

Size: CONCRETE SAND

Test	Field	Lab	T 84 F. Grav.	T 85 C. Grav.
T 176 S.E.			Bulk: 2.582	Bulk:
T 89 L.L.			S.S.D.: 2.639	S.S.D.:
T 90 P.I.			Appar.: 2.736	Appar.:
Fineness Modulus		2.61 FM	Absorp.: 2.18 %	Absorp.:
TM 226 Dust/Clay			T 104 Soundness	TM 208 Degrade
TM 227 Cleanness			C A: F A: 3%	
TM 229 Elong pcs			1.5-3/4:	
308 Incin/Ga A/C			3/4-3/8:	
Total A/C			3/8- #4: 0.1 %	Crse Ht:
Retention			#4- #8: 0.4 %	P20:
T 329 Moisture			#8-#16: 0.4 %	Fine Ht:
T 27/11			#16-#30: 1.0 %	P20:
Sieve	Passing	Passing	#30-#50: 1.4 %	T 21 Impurity
2.5			T 96 Abrasion	Plate #: 1
2			T 335 Fracture	T 112 Friables
1.5			3/4:	Wt'd Avg :
1			1/2:	1.5-3/4:
3/4			3/8:	3/4-3/8:
1/2			1/4:	3/8- #4:
3/8		100 %	#10:	#4-#16:
1/4		98 %	T 113 Lightweight	TM 225 Woodwaste
# 4		97 %	Coarse:	Lab:
# 8		85 %	Fine: 0.2 %	Field:
# 10			AASHTO T 288/289	AASHTO T 267
# 16			Resist: Ω	Organic:
# 30			pH:	
# 40			AASHTO T 291	AASHTO T 290
# 50		27 %	Chloride:	Sulfate:
#100		5 %		
#200		0.5 %		

T 327 Micro Deval ==> Grading:

Loss: %

1 @ t27 = \$ 61.00  
1 @ t11 = 30.00  
1 @ t21 = 21.00  
1 @ t84 = 74.00  
5 @ t104 = 38.00  
1 @ t113 = 44.00

NSM = Not Sufficient Material

TOTAL CHARGES: \$ 0.00

REMARKS:

Material represented by sample DOES comply with specifications.

KEVIN BROPHY - LABORATORY SERVICES MANAGER

REPORT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT WRITTEN APPROVAL OF THIS LABORATORY.

Contract No.: REG 1 QA EA No.: QA1000 000 Lab No.: 21-001934  
Project: REGION 1 COMMERCIAL PRODUCT - SANTOSH PLANT 05-004-1  
Highway: County: Data Sheet No.: F50816 071  
Contractor: FA No.:  
Project Manager: BARB WORBINGTON Org Unit: 7840 Bid Item No.:  
Submitted By: ERIC EGGE Org Unit: CALP Sample No.:  
Material Source: 05-004-1 SANTOSH PIT Qty Represented: 12 MONTHS  
Sampled At: STOCKPILE Sampled By: Witnessed By: M EIXENBERGER  
DATE-Sampled: 21/ 8/26 Received: 21/ 8/27 Tested: 21/ 9/10 Date Reported: 21/ 9/13  
Class/Type: COMPLIANCE Use: C-57 CON AGG COARSE PCC AGGR

Q or G: GRAVEL			AGGREGATE LABORATORY REPORT - CPCCAG		Size: 1"-#4	
Test	Field	Lab	T 84 F. Grav.	T 85 C. Grav.		
T 176 S.E.			Bulk:	Bulk: 2.666		
T 89 L.L.			S.S.D.:	S.S.D.: 2.697		
T 90 P.I.			Appar.:	Appar.: 2.749		
T 335 Ttl Frac.			Absorp.:	Absorp.: 1.13 %		
TM 226 Dust/Clay			T 104 Soundness	TM 208 Degrade		
TM 227 Cleanness			C A: 1% F A:			
TM 229 Elong pcs			1.5-3/4: 0.0 %			
308 Incin/Ga A/C			3/4-3/8: 0.7 %			
Total A/C			3/8- #4: 0.3 %			Crse Ht: 0.4 in
Retention			#4- #8:			P20: 12.2 %
T 329 Moisture			#8-#16:			Fine Ht:
T 27/11			#16-#30:			P20:
Sieve	Passing	Passing	#30-#50:			T 21 Impurity
2.5			T 96 Abrasion			Plate #:
2			13.5 %			
1.5		100 %	Type B			
1		100 %	T 335 Fracture			T 112 Friables
3/4		89 %	1.5:			Wt'd Avg :
1/2		49 %	1.0:			1.5-3/4:
3/8		17 %	3/4:			3/4-3/8:
1/4		1 %	1/2:			3/8- #4:
# 4		0 %	3/8:			#4-#16:
# 8		0 %	T 113 Lightweight			TM 225 Woodwaste
# 10			Coarse: 0.1 %			Lab:
# 16		0 %	Fine:			Field:
# 30		0 %	AASHTO T 288/289			AASHTO T 267
# 40			Resist: Ω			Organic:
# 50		0 %	pH:			AASHTO T 290
#100		0 %	AASHTO T 291			Sulfate:
#200		0.2 %	Chloride:			
			T 327 Micro Deval ==> Grading:			Loss: %

3 @ t27 = \$ 61.00	NSM = Not Sufficient Material	TOTAL CHARGES: \$ 0.00
3 @ t11 = 30.00	REMARKS:	
1 @ t85 = 58.00	Material represented by sample DOES comply with specifications.	
1 @ t96 = 125.00		
4 @ t104 = 38.00		
1 @ tm208 = 96.00		

KEVIN BROPHY - LABORATORY SERVICES MANAGER

REPORT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT WRITTEN APPROVAL OF THIS LABORATORY.



# *The Oregon Concrete and Aggregate Producers Association*

*This is to certify that*

*Greg Hendrix*

*has completed the Oregon Department of Transportation's Certification  
for*

*Certified Concrete Technician*

Date Taken: 08-Mar-2019

Expires: 08-Mar-2022





# CERTIFICATE OF MATERIALS ORIGIN

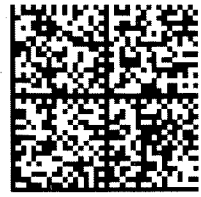
<b>PROJECT NAME (SECTION)</b> OR99W (Barbur Blvd) at Capitol Highway		<b>CONTRACT NO.</b> 15287		
<b>BID ITEM NO.</b> 540	<b>BID ITEM NAME</b> Monolithic Curbs and Sidewalks			
<b>DOMESTIC MATERIALS SOURCE (NAME AND ADDRESS)</b> Precision Rebar 1712 NE 99th St. Vancouver, WA				
<b>DOMESTIC MATERIALS DESCRIPTION</b> 875# of Rebar				
<b>FOREIGN MATERIALS SOURCE INCLUDING MATERIAL OF UNKNOWN ORIGIN (NAME AND ADDRESS)</b>				
<b>FOREIGN MATERIALS (OR OF UNKNOWN ORIGIN) DESCRIPTION AND VALUE OF IRON OR STEEL PRODUCT AS IT IS DELIVERED TO THE PROJECT</b>				
<p>This certification is made for the purpose of establishing materials acceptance under the Contract Special Provisions titled 00160.20(a) Buy America. All iron or steel manufacturing processes, including protective coatings, for the domestic materials described above occurred within the United States of America.</p> <p>Manufacturers' certificates verifying the origin of the above described domestic materials will be kept on file for three years following final payment. Copies will be furnished to the Engineer upon request.</p> <p>I declare under penalty of perjury under Oregon and Federal laws that the foregoing is true and correct.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; text-align: center; vertical-align: top;"> <p><b>AUTHORIZED REPRESENTATIVE*</b></p> <p>NAME: <u>Alan Bird</u></p> <p>TITLE: <u>Project Manager</u></p> <p>SIGNATURE: _____</p> <p>DATE: <u>5/31/2022</u></p> </td> <td style="width: 50%; text-align: center; vertical-align: top;"> <p><b>COMPANY* NAME AND ADDRESS:</b></p> <p>Wildish Standard Paving PO Box 40310 Eugene, OR 97404</p> </td> </tr> </table>			<p><b>AUTHORIZED REPRESENTATIVE*</b></p> <p>NAME: <u>Alan Bird</u></p> <p>TITLE: <u>Project Manager</u></p> <p>SIGNATURE: _____</p> <p>DATE: <u>5/31/2022</u></p>	<p><b>COMPANY* NAME AND ADDRESS:</b></p> <p>Wildish Standard Paving PO Box 40310 Eugene, OR 97404</p>
<p><b>AUTHORIZED REPRESENTATIVE*</b></p> <p>NAME: <u>Alan Bird</u></p> <p>TITLE: <u>Project Manager</u></p> <p>SIGNATURE: _____</p> <p>DATE: <u>5/31/2022</u></p>	<p><b>COMPANY* NAME AND ADDRESS:</b></p> <p>Wildish Standard Paving PO Box 40310 Eugene, OR 97404</p>			
<p style="font-size: small;">Submit a new certificate for subsequent shipments if any of the above information changes. <span style="float: right;">*May be Contractor, Sub-Contractor or supplier</span></p>				

Quantity: <b>18</b>	Size: <b>5</b>	Grade: <b>60</b>	Length: <b>20-0</b>	Mark:
------------------------	-------------------	---------------------	------------------------	-------

20-0

**Job #:  
WILDIL  
Rel #:  
00002**  
Detailer: Vincent

**Job 8392 Corner 3**  
Wildish Building Company  
Rebar for Corner 3



Item # 02-01 Dwg: 58299

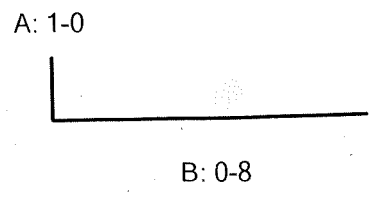
**Precision Rebar**  
1712 NE 99th St Vancouver, WA  
(360)-574-1022 (800)-815-2312

Tag: 2 of 4  
Same Pcs: 18

LBS: 375  
Printed 4/20/2022 07:42 A

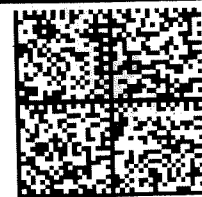
Quantity: <b>45</b>	Size: <b>5</b>	Grade: <b>60</b>	Length: <b>1-8</b>	Mark: <b>5A1</b>
------------------------	-------------------	---------------------	-----------------------	---------------------

Type: 2  
**90°**



Job #:  
**WILDIL**  
Rel #:  
**00002**  
Detailer: Vinc

**Job 8392 Corner 3**  
Wildish Building Company  
Rebar for Corner 3



Item # 01-01 Dwg: 58299

**Precision Rebar**

1712 NE 99th St Vancouver, WA  
(360)-574-1022 (800)-815-2312

Tag: 1 of 4  
Same Pcs: 45

LBS: 78  
Printed 4/20/2022 07:42 A

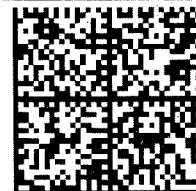
Quantity: <b>45</b>	Size: <b>5</b>	Grade: <b>60</b>	Length: <b>9-0</b>	Mark:
------------------------	-------------------	---------------------	-----------------------	-------

9-0

---

**Job #:**  
**WILDIL**  
**Rel #:**  
**00002**  
 Detailer: Vincent

**Job 8392 Corner 3**  
 Wildish Building Company  
 Rebar for Corner 3



Item # 03-01 Dwg: 58299

**Precision Rebar**  
 1712 NE 99th St Vancouver, WA  
 (360)-574-1022 (800)-815-2312

Tag: 3 of 4  
 Same Pcs: 45

LBS: 422  
 Printed 4/20/2022 07:42 A

# QPL Search

## Information for Database Record No. 235407

Construction  
Home

**Spec No:** 00535.10A

QPL Home

**Product Name:** ULTRABOND HS-1CC

Do fresh  
search

**Product Name 2:** EPOXY

**Category:** RESIN BONDED

**Category 2:** ANCHOR SYSTEM

**Product Number:** 5133

**Type of List:** Q

**Effective date:** 32619

**Manufacturer:** ADHESIVES TECHNOLOGY CORP.

**Manuf. 2:** 954/789-4764

**Remarks:** WHEN EMBEDMENT NOT SPECIFIED SUBMIT A  
PROPOSED EMBEDMENT TO THE EOR FOR APPROVAL.

Version 1.0.4 April 23, 2015

Content maintained by [Mike Dunning](#) | For programming, contact [ODOT Computer Support](#)

---

Oregon Department of Transportation  
355 Capitol St. NE  
Salem OR 97301-3871



# **Manhole Example**



# Pay Note (Project Work Record)

## Project Information

Old Hwy 99N:Oakland Bridge and Melrose RD: CONN Ford Bridge Project Name	CON04463 EA	011 Subjob	11 Estimate	01 ✓ Pay Note	15318 Contract
CONCRETE STORM SEWER MANHOLES Item Description	0850 Bid/Pay Item	Chris Hunter P.E. Resident Engineer		Joseph Dewey Prepared by	

## Method of Quality Assurance

<p><b>Quality Documentation*</b> ✓</p> <p><input type="checkbox"/> E                      <input checked="" type="checkbox"/> O</p> <p><input type="checkbox"/> L (Report #) _____ <input type="checkbox"/> BG</p> <p><input type="checkbox"/> I (Report #) _____ <input type="checkbox"/> R</p> <p><input type="checkbox"/> W                      <input type="checkbox"/> P/R</p> <p><input type="checkbox"/> P                      <input checked="" type="checkbox"/> Q</p> <p><input type="checkbox"/> M                      <input type="checkbox"/> T</p> <p><input type="checkbox"/> Small Quantity                      <input type="checkbox"/> Field Tested Material</p> <p><small>*Click on letters for definitions.</small></p>	<p><b>F - Field Inspection Report (FIR)</b></p> <table border="1"> <thead> <tr> <th>New*</th> <th>Previous</th> <th>Estimate</th> <th>Pay Note</th> <th>Link (opt.)</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td>011</td> <td>001</td> <td>_____</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> </tbody> </table> <p><small>*Enter on New Field Inspection Information page below.</small></p>	New*	Previous	Estimate	Pay Note	Link (opt.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	011	001	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	<p><b>QPL</b> ✓</p> <p><input type="checkbox"/> No QPL</p> <p><input checked="" type="checkbox"/> QPL - Approved</p> <p><input type="checkbox"/> QPL - Qualified</p> <p>QPL #                      4642*</p> <p>QPL #                      _____</p> <p>QPL #                      _____</p> <p>QPL #                      _____</p> <p>Future QPL #                      _____</p>
New*	Previous	Estimate	Pay Note	Link (opt.)																																	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	011	001	_____																																	
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____																																	
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____																																	
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____																																	
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____																																	
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____																																	

## Quantity Data

0.000 Previous Quantity	EACH Unit	<input type="checkbox"/> Remeasurement	20221114 Installation Date
1.000 (+ or -) ✓ Quantity This Note		<input checked="" type="checkbox"/> Measured in Place Method	_____
1.000 Total Quantity to Date		<input type="checkbox"/> Partial Payment	Item Completion Date
<b>Calculations and/or Remarks</b>		<input type="checkbox"/> Material on Hand (see Material on Hand page below)	

Per specification 00470.80 quantities of manholes will be measured on the unit basis. ✓

Installed this month: 1 Ea.

Due this note: 1 Ea

No Quality Documentation Required                       Photos Attached                       Illustration Attached

## Reviewed by

Quality Checked by _____	Date _____	Quantity Checked by _____	Date _____
--------------------------	------------	---------------------------	------------





Pay Note (New Field Inspection)
(Project Work Record)

Old Hwy 99N:Oakland Bridge and Melrose RD: CONN Ford Bridge 0850 11 01 15318
Project Name Bid/Pay Item Estimate Pay Note Contract

Materials Delivered for this Project

Concrete Storm Manhole 20221114 JRT Construction
Type of Material Date Delivered Delivered to (Name of Contractor/Subcontractor)
Oldcastle Infrastructure 1.00
Source of Material (Manufacturer or Fabricator) Quantity Rejected Rejection explanation/reason
1.00 Ea 1.00 On Site.
Quantity Delivered Unit Quantity Received Where inspected
1.00 1.00 Joseph Dewey 49412
Total Accepted to Date Estimated Total Required Inspector Name Cert. #

The manhole was delivered to the site in good condition. Material was visually verified to be from Oldcastle Infrastructures which is listed as an approved manufacturer in the Nonfield Tested Materials Guide. Area was excavated to required elevation and compacted, 6" of base rock was placed and compacted. Manhole was set to the provided survey staking. The area around manhole was then backfilled with aggregate material and each lift was compacted using a jumping jack. Quality documentation is supplied as a supporting document.

Remarks

Materials Delivered for this Project

Type of Material Date Delivered Delivered to (Name of Contractor/Subcontractor)
Source of Material (Manufacturer or Fabricator) Quantity Rejected Rejection explanation/reason
Quantity Delivered Unit Quantity Received Where inspected
Total Accepted to Date Estimated Total Required Inspector Name Cert. #

Remarks

Materials Delivered for this Project

Type of Material Date Delivered Delivered to (Name of Contractor/Subcontractor)
Source of Material (Manufacturer or Fabricator) Quantity Rejected Rejection explanation/reason
Quantity Delivered Unit Quantity Received Where inspected
Total Accepted to Date Estimated Total Required Inspector Name Cert. #

Remarks



# CERTIFICATE OF MATERIALS ORIGIN

<b>PROJECT NAME (SECTION)</b> Old Hwy 99N: Oakland Bridge & Melrose Road	<b>CONTRACT NO.</b> 15318
---	------------------------------

<b>BID ITEM NO.</b> 0850,0860,0870,0880	<b>BID ITEM NAME</b> Concrete Manholes & Inlets
--	--

**DOMESTIC MATERIALS SOURCE (NAME AND ADDRESS)**

D&L Supply Company  
13000 E. Wheeler Rd.  
Moses Lake, WA 98837

**DOMESTIC MATERIALS DESCRIPTION**

Ductile Iron per ASTM A-536  
Gray Iron per ASTM A-48  
Mild Steel per ASTM A-36  
Hot Dip Galvanized per ASTM A-123

**FOREIGN MATERIALS SOURCE INCLUDING MATERIAL OF UNKNOWN ORIGIN (NAME AND ADDRESS)**

**FOREIGN MATERIALS (OR OF UNKNOWN ORIGIN) DESCRIPTION AND VALUE OF IRON OR STEEL PRODUCT AS IT IS DELIVERED TO THE PROJECT**

This certification is made for the purpose of establishing materials acceptance under the Contract Special Provisions titled 00160.20(a) Buy America. All iron or steel manufacturing processes, including protective coatings, for the domestic materials described above occurred within the United States of America.

Manufacturers' certificates verifying the origin of the above described domestic materials will be kept on file for three years following final payment. Copies will be furnished to the Engineer upon request.

I declare under penalty of perjury under Oregon and Federal laws that the foregoing is true and correct.

**AUTHORIZED REPRESENTATIVE\***

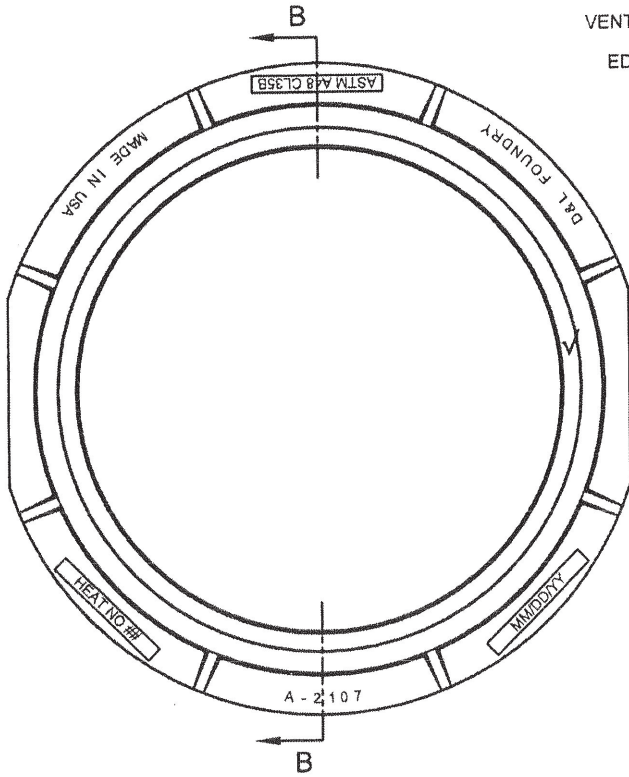
NAME: Ever Leos  
TITLE: Quality Control  
SIGNATURE: *Ever Leos*  
DATE: 11/15/2022

**COMPANY\* NAME AND ADDRESS:**

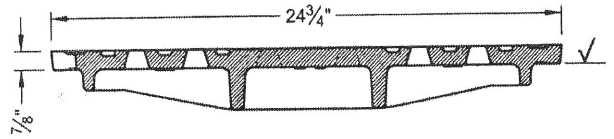
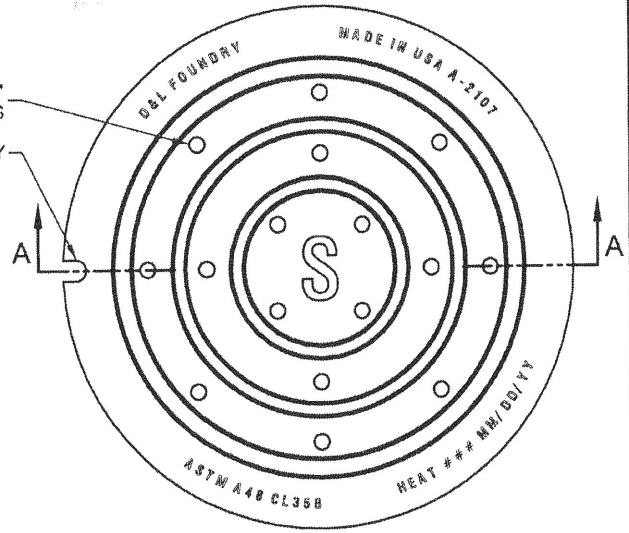
Oldcastle Infrastructure  
28499 SW Boberg Road  
Wilsonville, OR 97070

Submit a new certificate for subsequent shipments if any of the above information changes. \*May be Contractor, Sub-Contractor or supplier

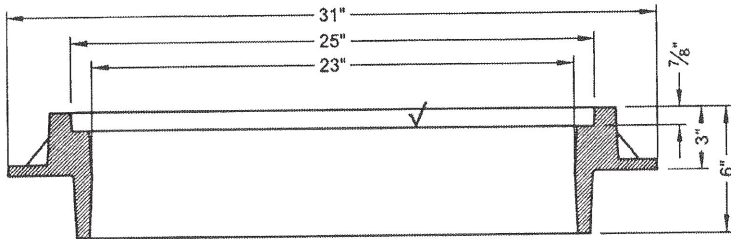
# A-2107



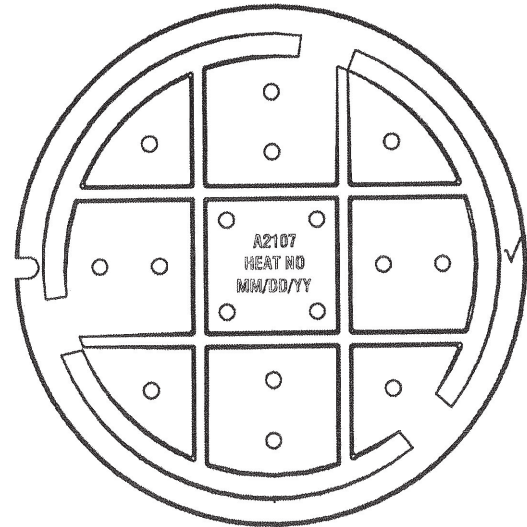
(16) 3/4"  
VENT HOLES  
EDGE PLY



SECTION A-A



SECTION B-B  
VIEW IS ROTATED



**CONFIDENTIALITY STATEMENT**

D&L Supply Co.(DLS) claims proprietary rights to the information disclosed in this document. The document is issued for information only and may not, in part or in whole, be reproduced or disclosed to anyone without the direct written consent of DLS. Dimensions are for reference ONLY. DLS reserves the right to change dimensions and or weights at its own discretion.

**D&L Supply Co.**

WA Sales: (509) 766-3131 Fax: (509) 765-8124  
CA Sales: (707) 557-4525 Fax: (707) 557-4655  
UT Sales: (801) 785-5016 Fax: (801) 785-0835

√ = INDICATES MACHINED SURFACE



PRODUCT NUMBER:

DRAWN BY:  
C.DILLEY

DATE:  
4/11/2014

COVER: A-2107-01

GRAY IRON: ASTM A-48 CL 35B

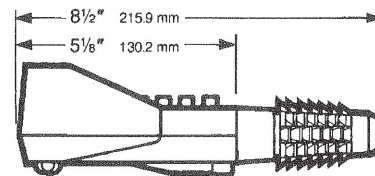
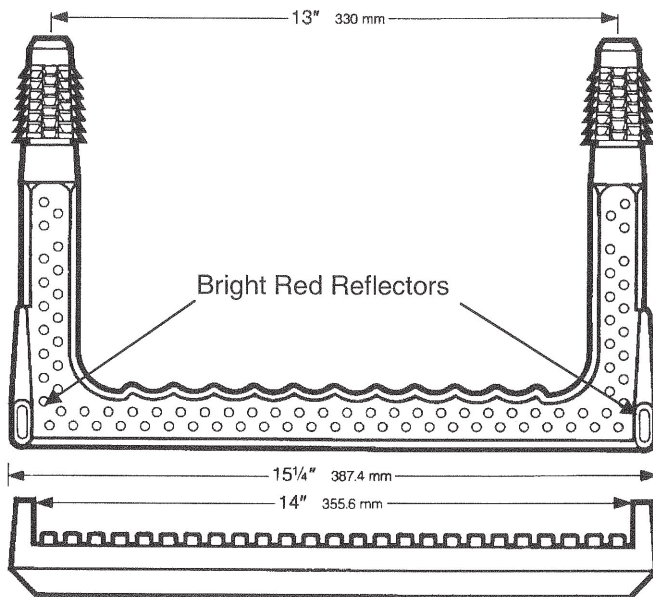
RING: A-2107-R2

GRAY IRON: ASTM A-48 CL 35B

MEETS: H2O WHEEL LOADING

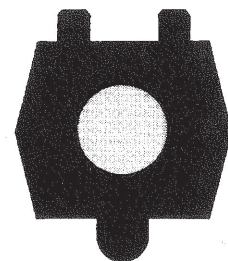
B:\D&L SUPPLY\A2100A-2107A-2107-01\_A-2107-R2.DWG

# P-14850



## SPECIFICATIONS

All Lane Poly Steps meet the requirements of ASTM C-478 and AASHTO M-199. The polypropylene conforms to ASTM D-4101. The 1/2" Grade 60 deformed reinforcing bar meets ASTM A-615.



RUNG

**LANE POLYPROPYLENE MANHOLE STEPS**

**LANE** INTERNATIONAL  
CORPORATION

P.O. Box 925 • 10758 S.W. Manhasset Dr. • Tualatin, OR 97062 • 503-692-9860 • 800-666-0076  
Fax 503-692-9863 • [www.laneinternational.com](http://www.laneinternational.com)



# Kor-N-Seal® I

## 106/406 Series Pipe-to-Manhole Connector



Most widely used flexible connector in sanitary sewer applications throughout the world

Easy-to-Install

Meets the specifications of ASTM C923

### PATENT

Patented Waveband technology creates a more effective seal by concentrating the compressive force of the expansion band. The rubber is "captured" between the band and the concrete.



### ORDERING INFORMATION

Kor-N-Seal I: 106/406 Series Pipe-to-Manhole Connector.

The 106 Series connector is 8 inches long, the 406 Series connector is 6 inches long. The number following the hyphen in our model numbers is the required hole size.

### RECOMMENDED TORQUE VALUES

Connectors with 8" hole size and smaller: Steel Wedge - 1/2" Socket Wrench - 8 ft. lbs.

Connectors with 10-20" hole sizes:

Ex Series - 1/2" Socket Wrench - 12 - 20 ft. lbs.

Steel Wedge - 1/2" Socket Wrench - 12 ft. lbs.

Preset torque limiters are available. Contact Customer Service at 1-800-626-2180 for more information.

### FOR LARGER PIPE SIZES REFER TO KOR-N-SEAL II SERIES CONNECTORS

206 Series - For pipe sizes 15" - 51" in diameter. Larger sizes available- contact Customer Service.

306 Series - To fit larger pipe into smaller diameter manholes.

506 Series - Designed specifically for stormwater applications

### USING CORRUGATED PIPE

Adapters are required when using Corrugated Pipe. Refer to the Corrugated Pipe Adapter Data Sheet for details.



## WEDGE STYLE CONNECTORS EX SERIES PLASTIC OR STAINLESS STEEL

Installation requires a 1/2" socket wrench & preset torque limiter.



## TOGGLE STYLE CONNECTORS (JACK-IN-STYLE)

Installation requires a hydraulic jack assembly.



PIPE O.D. RANGE	MODEL NUMBER	NOMINAL HOLE SIZE
1.50-4.80	S106-7MWS	7"
3.50-4.50	S106-7WS	7"
4.20-6.40	S106-8SRWS	8"
1.50-4.80	S106-8MWP-EX	8"
5.10-5.90	S106-8WS	8"
*6.00-6.75	S406-10AW	10"
*7.50-8.20	S406-10W	10"
*6.00-6.75	S406-10.5AW	10 <sup>1/2</sup> "
*7.50-8.70	S406-10.5W	10 <sup>1/2</sup> "
*6.00-7.00	S406-11BW	11"
*7.50-9.00	S406-11AW	11"
*3.50-6.90	S106-12M	12"
*6.00-7.00	S406-12CW	12"
*6.25-7.50	S406-12BW	12"
*7.50-9.00	S406-12AW	12"
*9.00-10.20	S406-12W	12"
*5.75-7.00	S106-12BW	12"
*7.00-8.50	S106-12AW	12"
*8.25-9.75	S106-12W	12"
*9.50-11.25	S106-14AW	14"
*9.50-11.25	S106-16BW	16"
*11.25-13.00	S106-16AW	16"
*13.00-14.20	S106-16W	16"
*14.00-15.50	S106-20BW	20"
*15.50-17.00	S106-20AW	20"
*17.00-18.15	S106-20W	20"

Refer to Recommended Installation Instructions.

\*These sizes available in Plastic "EX" Wedge or Steel Wedge.

PIPE O.D. RANGE	MODEL NUMBER	NOMINAL HOLE SIZE
1.50-4.80	S106-7MT	7"
3.50-4.50	S106-7T	7"
4.20-6.40	S106-8SRT	8"
1.50-4.80	S106-8MT	8"
5.10-5.90	S106-8T	8"
6.00-6.75	S406-10AT	10"
7.50-8.40	S406-10T	10"
6.00-6.75	S406-10.5AT	10 <sup>1/2</sup> "
7.50-8.90	S406-10.5T	10 <sup>1/2</sup> "
6.00-7.00	S406-11BT	11"
7.50-9.00	S406-11AT	11"
3.50-6.90	S106-12MT	12"
6.00-7.00	S406-12CT	12"
6.25-7.50	S406-12BT	12"
7.50-9.00	S406-12AT	12"
9.00-10.50	S406-12T	12"
5.75-7.00	S106-12BT	12"
7.00-8.50	S106-12AT	12"
8.25-9.75	S106-12T	12"
9.50-11.25	S106-14AT	14"
9.50-11.25	S106-16BT	16"
11.25-13.00	S106-16AT	16"
13.00-14.50	S106-16T	16"

Refer to Recommended Installation Instructions. To Install 7" & 8" Toggle Style Connectors: Expander Assembly (p/n 90225) 8" Extension (p/n 13808)

Refer to 206 or 306 Series for larger diameters.

Covered under U.S. Patent No. 5,738,359



WWW.TRELLEBORG.COM/PIPE-SEALS



**Certificate of Compliance**  
*Concrete Pipe, Manhole and  
Box Culvert Gaskets*

**TECH  
NOTE**

To Whom It May Concern

January 1, 2016

This letter is to confirm that, for the following Series of gaskets:

TSS	SOC	Type C	O-Ring
SORT	SOCL	CF	

- All gasket physical properties conform to the material requirements of the applicable ASTM, CSA and Greenbook standards. Applicable standards are identified by the colored stripe (or lack of a stripe) around the periphery of the gasket, as outlined in the Chart on Page 2 of this certification.
- All gasket physical properties are measured in accordance with the test methods outlined in the appropriate standard(s).
- All splices meet the requirements outlined in the appropriate standard(s).
- Physical dimensions, including cut-length, cross-sectional width and cross-sectional height, are routinely measured for conformance to the specific dimensions of the gasket profile in question.

For plants certified under the *National Precast Concrete Association Quality Control Manual for Precast and Prestressed Concrete Plants*, we hereby confirm that Hamilton Kent maintains an ISO 9001-2008, third-party audited, Quality Management System. A copy of the current Certificates of Registration are attached.

Should you have any questions or require clarification, please do not hesitate to contact us.

Best Regards,

Jenny Wang

Quality \ Quality Systems Manager  
416-675-9873 x242

Page 1 of 2

**Making Infrastructure Watertight Today**  
**for a Greener, Sustainable Tomorrow**

Colored Stripe on Periphery of Gaskets --->	<i>White or None</i>	<i>Blue*</i>	<i>Green</i>	<i>Orange</i>	<i>Yellow</i>
ASTM C443 (Standard)	X	O			
ASTM C443 (Oil Resistant)				X	O
ASTM C361 (Standard)		X			
ASTM C361 (Oil-Resistant)				X	O
ASTM C1619 Class A (Standard)		X			
ASTM C1619 Class B (Oil-Resistant)				X	O
ASTM C1619 Class C (Standard)	X	O			
ASTM C1619 Class D (Oil-Resistant)				X	O
ASTM C1619 Class E (Standard)		X			
ASTM C1677 (Standard)	X	O			
ASTM C1677(Oil-Resistant)				X	O
ASTM C425			X		
California Greenbook (Standard)			X		
California Greenbook (Oil-Resistant)					X
CSA A257.3 (Standard)	X	O			
CSA A257.3 (Oil-Resistant)				X	O

"X" and "O" indicate the applicable standard(s) for which a gasket will meet the required material properties. "X" indicates the primary material of choice for the listed standard.

\* **Note:** O-ring gaskets provided to meet these specifications will not have a Blue stripe printed on them. They will have no stripe.



TEL: (800) 268 8479  
 FAX: (888) 674 6960  
 WEB: [www.hamiltonkent.com](http://www.hamiltonkent.com)  
 E-MAIL: [sales@hamiltonkent.com](mailto:sales@hamiltonkent.com)

# ConSeal™ CS-102

## Butyl Rubber Sealant



## Butyl Rubber Sealant for All Precast Concrete Structures - Meets ASTM C-990

### Applications

For concrete joints in: Manholes, Concrete Pipe, Vaults, Box Culverts, Septic Tanks, and Vertical Panel Structures. **Not intended for use in expansion joints or joints that move.**

### Sealing Properties

- Provides permanently flexible watertight joints.
- Low to high temperature workability: 30°F to 120°F (-1°C to +48°C)
- Rugged service temperature: -30°F to +200°F (-34°C to +93°C)
- Excellent chemical and mechanical adhesion to clean dry surfaces.
- Greater cohesive and adhesive strengths.
- Sealed joints will not shrink, harden or oxidize upon aging.
- Controlled flow resistance for application ease.
- No priming normally necessary. When confronted with difficult installation conditions, such as wet concrete or temperatures below 40°F (4°C), priming the concrete will improve the bonding action. Consult Concrete Sealants for the proper primer to meet your application.

### Hydrostatic Strength

ConSeal CS-102 meets the hydrostatic performance requirement as set forth in ASTM C-990 section 10.1 (Performance requirement: 10psi for 10 minutes in straight alignment – in plant, quality control test for joint materials.)

### Specifications

ConSeal CS-102 meets or exceeds all of the requirements of Federal Specification SS-S-210 (210-A), AASHTO M-198B, and ASTM C-990-91.

### Physical Properties

#### Description

Description	Spec	Required	CS-102
Color			Black
Specific Gravity, 77°F	ASTM D71	1.15-1.50	1.25
Ductility, 77°F	ASTM D113	5.0 min.	10
Penetration, cone 77°F (25°C), 150 gm, 5 sec.	ASTM D217	50-100 mm	55-60 mm
Penetration, cone 32°F (0°C), 150 gm, 5 sec.	ASTM D217	40 mm min.	40-65 mm
Flash Point, C.O.C., °F	ASTM D92	350°F min.	450°F
Fire Point, C.O.C., °F	ASTM D92	375°F min.	475°F

*Don't Just Seal It, ConSeal It!*

© 2013 Concrete Sealants, Inc.

**Concrete Sealants, Inc.** 9325 State Route 201 ■ Tipp City, OH 45371 ■ P.O. Box 176 ■ New Carlisle, OH 45344  
**P.** 937.845.8776 **F.** 937.845.3587 **Toll Free** 800.332.7325 ■ **www.conseal.com**



# ConSeal™ CS-102

## Butyl Rubber Sealant



### Butyl Rubber Sealant for All Precast Concrete Structures - Meets ASTM C-990

#### Chemical Composition

##### Description

	Spec	Required	CS-102
Hydrocarbon plastic content % by weight	ASTM D297	50% min.	51%
Inert mineral filler % by weight	AASHTO T111	30% min.	35%
Volatile Mater % by weight	ASTM D6	2% max.	1.2%
Non-extractable, carbon-based material			12.8%
Recycled Content, % by weight			
Post Consumer:			8.41%
Post Industrial:			10.85%

#### Immersion Testing

**30-Day Immersion Testing:** No visible deterioration when tested in 5% Caustic Potash, 5% Hydrochloric Acid, 5% Sulfuric Acid, and 5% saturated Hydrogen Sulfide.

**One Year Immersion Testing:** No visible deterioration when tested in 5% Formaldehyde, 5% Formic Acid, 5% Sulfuric Acid, 5% Hydrochloric Acid, 5% Sodium Hydroxide, 5% Hydrogen Sulfide, and 5% Potassium Hydroxide.

#### Limited Warranty

This information is presented in good faith, but we cannot anticipate all conditions under which this information and our products, or the products of other manufactures in combination with our products, may be used. We accept no responsibility for results obtained by the application of this information or the safety and suitability of our products, either alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such product or product combinations for their own purposes. It is the **users' responsibility** to satisfy himself as to the suitability and completeness of such information for this own particular use. We sell this product without warranty, and buyers and users assume all responsibility and liability for loss or damage arising from the handling and use of this product, whether used alone or in combination with other products.

*Don't Just Seal It, ConSeal It!*

© 2013 Concrete Sealants, Inc.

**Concrete Sealants, Inc.** 9325 State Route 201 ■ Tipp City, OH 45371 ■ P.O. Box 176 ■ New Carlisle, OH 45344  
**P. 937.845.8776 F. 937.845.3587 Toll Free 800.332.7325 ■ www.conseal.com**



**ODOT CONSTRUCTION / MATERIALS SECTION  
QUALIFIED PRODUCTS LIST  
APPROVED LIST - NO SAMPLES OR TESTS REQUIRED\*  
QUALIFIED LIST - ADDITIONAL REQUIREMENTS\*\*  
JULY 2021**

<u>STANDARD SPEC #</u>	<u>CATEGORY</u>	<u>PRODUCT NAME</u>	<u>LOCAL REPRESENTATIVE AND/OR MANUFACTURER</u>	<u>EFFECTIVE DATE</u>	<u>PRODUCT NUMBER</u>	<u>LIST</u>	<u>REMARKS</u>
00470.00	MANHOLE ADJUSTING RING	PRORING MH GRADE ADJUSTMENT RING	CRETEX SPECIALTY PRODUCTS 800/345-3764	12/24/12	4416	A	
00470.00	MANHOLE COVER	16 HOLE 3 BOLT MANHOLE COVER A-2107-12	D&L FOUNDRY 509/765-7952	08/27/13	4644	A	
00470.00	MANHOLE COVER	16 HOLE MANHOLE COVER A-2107-01 A-2107-01	D&L FOUNDRY 509/765-7952	08/27/13	4642	A	
00470.00	MANHOLE COVER	2 HOLE 3 BOLT MANHOLE COVER A-2107-14	D&L FOUNDRY 509/765-7952	08/27/13	4645	A	
00470.00	MANHOLE COVER	2 HOLE SUB/STAN MANHOLE COVER A-2107-03	D&L FOUNDRY 509/765-7952	08/27/13	4643	A	
00470.00	MANHOLE COVER	EAST JORDAN 2603C3 #00260420	EJ IRON WORKS Frank Ray 503/550-1828 800/626-4653	05/08/08	3615	A	
00470.00	MANHOLE COVER	GMI 26" COMPOSITE COVER & FRAME	GMI COMPOSITES, INC 811/755-1611	12/24/10	4290	A	
00470.00	MANHOLE COVER	WATER TIGHT SUB/STAN MANHOLE COVER A-2107-15	D&L FOUNDRY 509/765-7952	08/27/13	4646	A	WATER TIGHT
00470.00	MANHOLE FRAME	3 BOLT STANDARD MANHOLE RING A-2108-R3	D&L FOUNDRY 509/765-7952	08/27/13	4650	A	

\*LIST 'A' = APPROVED. MAY BE USED WITHOUT SAMPLES, TESTING, OR QUALITY COMPLIANCE CERTIFICATIONS. MAY NEED A FIELD INSPECTION REPORT.

\*\*LIST 'Q' = QUALIFIED. USE WITH SAMPLING, TESTING, &/OR QUALITY COMPLIANCE CERTIFICATIONS AS NEEDED. NEEDS A FIELD INSPECTIONS REPORT. CHECK SPECS AND NFTMAG.  
LIST PUBLISHED BY: ODOT MATERIALS LAB; 800 AIRPORT RD SE; SALEM, OR 97301-4798; (503) 986-3059. PLEASE REPORT ANY PROBLEMS USING THESE PRODUCTS.

## 12D-3 Review Process for Quantity Documentation

### A. Review by RE

The RE must review each source document as it is prepared to verify that documentation and calculation methods are proper and correct.

Steps in the review procedure for quantity documentation include:

- Assure that required dates, signatures, Contract numbers, locations, etc. are included on each original source document. Also, assure that the Work has been charged to the proper Participation Indicator (sub-job).
- Prepare and include two (2) adding machine tapes or alternate summation method for all Weigh Memos, tickets, and Material receipts to verify that all individual quantities are included in the summation. Assure that the required date, signature, and Contract number are included on adding machine tapes, computer-generated source documents, and summaries.
- Assure that a separate person has checked all formulas and calculations and has also signed and dated the documents.
- When Material is paid for by volume of hauling vehicle, include measurements of the hauling vehicle and calculate the volume for each hauling vehicle. The person measuring the vehicle and calculating the volume must sign and date the document.
- When conversion factors have been used to compute pay quantities, assure that documentation of the conversion factors is included. The person calculating the conversion must sign and date the document.
- Verify that proper and correct formulas and procedures were used in each computer-generated source document and spreadsheet to calculate quantities. Computer calculated quantities must be documented with the original field measure notes along with input and output printouts.
- Compare the calculated quantity of each item to the bid quantity and resolve significant differences.
- Ask the theoretical question on each item: "Does this quantity seem appropriate for the Work that was actually done on the Project?"
- Assure that all Work has been included in the calculated quantity and that the calculated quantity does not include inappropriate areas, volumes, or quantities. This may

require some independent verification of quantities. For earthwork volumes, refer to the Measurement of Earthwork discussion in Section 12D-1(j).

- Check all lump sum quantity adjustments and supporting documentation.
- Verify and submit final quantities on a Quantity Ledger Report.

#### **B. Review by Region Assurance Specialist (RAS)**

The RAS will periodically review all Project quantity documentation. The frequency of those reviews will be planned and will depend on Project size, duration, complexity, and the RE's experience in administering ODOT construction Contracts.

The RAS will review and provide guidance in quantity documentation procedures used to support payments to the Contractor, including:

- Source document must be on file
- Lump sum schedules for progress payment of lump sum items
- Flagger and Pilot Car Receipts or similar format
- Sprinkling Tally Sheets or similar format
- Accurate, easy to follow measurement and calculation methods
- Calculations and calculation methods checked by a second person
- Proper source document validations
- For quantities paid by weight, padded Material receipts with adding machine tapes, or acceptable alternate method, summarizing the total quantities.
- Scale Diary, including scale certification and license
- For a complete list of items requiring cost justification for quantity overruns, refer to Chapter 15-2.
- Quantity price adjustments
- Material on Hand (MOH) payments

At the time of the periodic Project review, the RAS will review the quantity documentation to determine whether it fulfills the Contract requirements and supports the payments that have been made to the Contractor. The RAS will report any deficiencies to the RE. The RAS will also address the noted deficiencies and their resolution at the next scheduled periodic review.



The RAS will list the following on the Documentation Review Report, form 734-1903 regarding quantities:

- Agreement to resolution of calculations that are done in a manner different from that specified by the Contract, or from that normally accepted by ODOT, and
- Calculations for which the RE and RAS are unable to agree on the acceptability of the calculation or method.

For acceptance of final Project documentation, refer to Chapter 37 - Submittal of Final Project Documentation.