



Grant County
Department of Public Works
 124 Enterprise St. S.E.
 Ephrata, WA 98823



Serial No. 15-182

MEMO

To: ALL PLAN HOLDERS

From: Jeff Tincher, P.E.
 Director/County Road Engineer 

Date: May 13, 2015

Re: **Martin Road Reconstruction Project**
CRP 13-17

ADDENDUM #1

The Special Provisions for this project are amended as follows:

Special Provisions

The following Special Provisions are changed, added and/or supplemented:

Removing Aggregates from Stockpiles

Section 3-02.2(7) is supplemented with the following:

3" - 6" Cobbles shall be an acceptable substitute for Quarry Spalls to be used in the ditch drainage areas. An existing stockpile of acceptable material is located at the Grant County Landfill for use on this project.

<u>Location</u>	<u>Material</u>	<u>Price</u>
Grant County Landfill Sec. 33, T21N, R26E, WM	Cobbles (in lieu of Quarry Spalls)	\$0.00/CY

CONCRETE STRUCTURES

6-02.1 Description

Section 6-02.1 is supplemented with the following:

"To meet current and future needs, serving together with public and private entities, while fostering a respectful and successful work environment."

Information.....(509) 754-6082
 FAX.....(509) 754-6087
 E-mail..... publ.works@grantcountywa.gov
 Jeff Tincher, P.E., Director/County Engineer.....ext.3504
 Jerome Wawers, Assistant Director.....Ext. 3502

Todd Mittge, P.E., Assist. County Rd. Engineer....Ext. 3519
 Bob Bersanti, Construction Engineer.....Ext. 3503
 Rod Ohi, Accountant.....Ext. 3555
 Rod Follett, Foreman-Sign Shop.....Ext. 3579
 Janice Goeden, Solid Waste.....(509) 754-4319

Steve Hill, Supervisor-Dist. No. 1.....Ext. 3539
 Dennis Collier, Supervisor-Dist. No. 2.....(509) 765-4172
 John Brisley, Supervisor-Dist. No. 3.....(509) 787-2321
 Darrell Doolittle, Supervisor-Central Shop.....(509) 754-6086
 Andy Booth, Bridge Supervisor.....Ext. 3535

Test Holes 1 and 2 were excavated near the existing bridge, (See Plan Sheet 23 of 23). Sieve Analysis and Moisture Density Relationship curves are attached in the Geotechnical Information Appendix. General soil layer information from the existing surface (Shoulder of Roadway) is also shown.

Geotechnical analysis and substructure design for Bridge #328 using this information shall be included in the unit price for Bridge #328.

There is a chance that a hard caliche layer could be encountered during excavation for the new bridge abutments. In the event that hard caliche is encountered at the locations of the bridge abutments, the Contractor shall use mechanical means to excavate for the bridge substructure as approved by the Geotechnical Engineer of record for design of the substructure and the Contracting Agency.

Page 90, Lines 23-24 are deleted and replaced with the following:

(*****)
All costs for design and in connection with completing Bridge #328 shall be included in the lump sum contract price for "Bridge #328".

Page 91, Line 34 the following is inserted:

8-15.2 Materials

3"-6" Washed Cobbles shall be an acceptable substitute for Quarry Spalls.

Page 92, Line 3 is deleted and replaced with the following:

8-21.3 Construction Requirements

(*****)
Section 8-21.3 is supplemented with the following:

"To meet current and future needs, serving together with public and private entities, while fostering a respectful and successful work environment."

All existing signs, posts and hardware within the project limits shall be removed and salvaged to the Grant County Sign Shop, 124 Enterprise St. S.E., Ephrata, WA, Monday thru Friday, 7:00 A.M. to 3:00 P.M.

All locations for new sign installations within or near the project limits shall be staked in the field by the Engineer.

All sign post lengths shall be determined by the Contractor and approved by the Engineer prior to installation. See Standard Plan G-24.50-03, Type ST-2 Sign Support Detail for Steel Post and slip base installation requirements.

The Permanent Signing Appendix lists the signs that shall be furnished and installed by the Contractor.

Test holes in the Vicinity Bridge #328 and in some ditch drainage areas indicated hard caliche layers below subgrade. The contractor shall be prepared to place steel sign posts and slip bases at depth into these layers regardless of conditions encountered. If the slip bases are damaged during installation, they shall be replaced at the Contractors expense to the satisfaction of the Engineer prior to acceptance.

Proposal

The following Bid Item's are changed, added and/or supplemented:

Bid Item #10 AND 11 (Changed)

Bid Items "Crushed Surfacing Base Course" and "Crushed Surfacing Maintenance Rock" shall be measured and paid by the TON. The Bidder is instructed to cross out "Cubic Yard", initial, and hand write "Ton" on the original Proposal Form used for bidding.

Plan Sheets

On Sheets 1 through 4, the Sub-title "B-SE & 10-SE Road Reconstruction" is deleted.

The appropriate location on the proposal will need to be marked to acknowledge receipt of this Addendum.

"To meet current and future needs, serving together with public and private entities, while fostering a respectful and successful work environment."

All Plan Holders
Addendum #1
Martin Road Reconstruction Project
Page 4

Attachments:

- Geotechnical Information Appendix (Page #1 - Page #9)
- Permanent Signing Appendix (Sheet #1 & #2)

“To meet current and future needs, serving together with public and private entities, while fostering a respectful and successful work environment.”

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Andy Booth, Bridge Supervisor.....Ext. 3535

GEOTECHNICAL
INFORMATION
APPENDIX

REVISIONS _____
 BY _____ DATE _____

FILE _____

BY _____ DATE _____
 CHECKED BY _____

MAJOR DIVISIONS		SYMBOL	TYPICAL NAMES
COARSE GRAINED SOILS	GRAVELS	CLEAN GRAVELS	GW Well-Graded Gravel, Gravel-Sand Mixtures.
			GP Poorly-Graded Gravel, Gravel-Sand Mixtures.
		GRAVELS WITH FINES	GM Silty Gravel, Gravel-Sand-Silt Mixtures.
			GC Clayey Gravel, Gravel-Sand-Clay Mixtures.
	SANDS	CLEAN SANDS	SW Well-Graded Sand, Gravelly Sand.
			SP Poorly-Graded Sand, Gravelly Sand.
		SANDS WITH FINES	SM Silty Sand, Sand-Silt Mixtures.
			SC Clayey Sand, Sand-Clay Mixtures.
FINE GRAINED SOILS	SILTS AND CLAYS LIQUID LIMIT LESS THAN 50%	ML Inorganic Silt, Silty or Clayey Fine Sand.	
		CL Inorganic Clay of Low to Medium Plasticity, Sandy or Silty Clay.	
		OL Organic Silt and Clay of Low Plasticity.	
	SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50%	MH Inorganic Silt, Micaceous Silt, Fine Sand or Silt, Elastic Silt.	
		CH Inorganic Clay of High Plasticity, Fat Clay.	
		OH Organic Clay of Medium to High Plasticity.	
Highly Organic Soils		PT Peat, Muck and Other Highly Organic Soils.	

UNIFIED SOIL CLASSIFICATION SYSTEM

ASTM D-2487, Standard Classification of Soils
 For Engineering Purposes

Bridge #328 Test Holes

Test Hole #1

- 0.0'- 2.0' Medium brown fine/medium graded SILT (ML). Medium dense, moist, few caliche cobbles intermixed. Most likely Common Borrow.
- 2.0'-4.4' Course Graded Silty soil with Caliche Conglomerate and Gravel. (Sampled for testing)
- 4.4'- Hardpan Caliche Conglomerate Layer

Test Hole #2

- 0.0'-2.5' Poorly Graded Gravel Borrow Mixture (GP)
- 2.5'-5.25' Medium brown fine/medium graded SILT (ML). Medium dense, moist, few caliche cobbles intermixed. Most likely Common Borrow. (Sampled for testing)
- 5.25'- Hardpan Caliche Conglomerate Layer

**GRANT COUNTY
SIEVE ANALYSIS**

TEST HOLE # 1 - SAMPLE A

Contract # CRP13-17 Br. #328	Quantity:	Pit Name and #:	Contractor:
Sample #: Br. 328-TH-1A	Date: 5-4-15	Time:	Sample Wt. (min. 20 Lbs.)(crusher, stockpile, other.)
Sample Wt. 1052.8	% Moisture of Sample:		Test: Pass <input type="checkbox"/> Fail <input type="checkbox"/>

size	Wt. Retained	% Passed	% Specifications	Tolerance
2 1/2		%	%	
1 1/2		%	%	
1		%	%	
5/8		%	%	
1/2		%	%	
3/8		%	%	
1/4		%	%	
Pan				
Total				

Gradation; Pass: _____ Fail: _____

Fracture (spec. 75% tol. 70%) N/A

S.E. (N/A)

Pass/Fail Comments:
* oversized Material Retained on 1/4" screen & above Screened out before testing.

size	Retained	Passing
4	42.4	4 % 96 %
8	85.7	8 % 92 %
16	169.2	16 % 84 %
30	234.6	22 % 78 %
40	264.7	25 % 75 %
50	304.4	29 % 71 %
80		% %
100	420.8	40 % 60 %
200	559.7	53.2 % 46.8 %
Pan	690.4	
Total	691.1	

Construction Manual Tests

T-61
Fracture formula

$$P = \left[\frac{F + (Q/2)}{F + Q + N} \right] (100)$$
 T-176

$$SE = \frac{\text{Sand (100)}}{\text{Clay}}$$
 T-255

$$\% \text{ Moisture} = \frac{\text{wet} - \text{dry}}{\text{dry}}$$
 T-27/11

$$\text{correction} = \frac{\text{pan \#4} - \text{split \#4} - \dots}{\dots}$$

4	96	%	
8	92	%	
16	84	%	
30	78	%	
40	75	%	
50	71	%	
80		%	
100	60	%	
200	46.8	%	
Tare			
Wet wt.	1052.8		
Dry wt.			

Split the (#4-) above a min. of 500g. Per T 27/11 (watch overloaded fine screens) 470 g max under #4.

	split wt.	correction	#4 weight	corrected wt. Log in above.
#40	<input type="text"/>	X <input type="text"/>	+ <input type="text"/>	= <input type="text"/>
#200	<input type="text"/>	X <input type="text"/>	+ <input type="text"/>	= <input type="text"/>
Pan	<input type="text"/>	X <input type="text"/>	+ <input type="text"/>	= <input type="text"/>

SHOW WORK BELOW! USE BACK OF TEST SHEET FOR ADDITIONAL CALCULATIONS:

Fracture:(700g Min) Percent Moisture:

$$P = \left[\frac{\text{ } + (\text{ } / 2)}{\text{ } + \text{ } + \text{ } } \right] (100) = \underline{N/A} \quad \% \text{Moisture} = \frac{\text{ } - \text{ } }{\text{ } } = \underline{N/A}$$

approximately 1000g
Sand Equivalent: Average 2 tests Correction for bringing reduced sample back to proper weight:

$$SE = \frac{\text{ } (100)}{\text{ } } = \underline{N/A} \quad \text{correction} = \frac{\text{ } - \text{ } }{\text{ } } = \underline{\hspace{2cm}}$$

Inspector's Signature <i>Dave C. Dobby</i>	Date: 5-4-15	Contractor's Signature	Date:
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**GRANT COUNTY
SIEVE ANALYSIS**

TEST HOLE # 1 - SAMPLE B

Contract # CRP13-17 Br#328	Quantity:	Pit Name and #:	Contractor:
Sample #. Br328-TH-1B	Date: 5-6-15	Time:	Sample Wt. (min. 20 Lbs.)(crusher,stockpile,other.)
Sample Wt. 2177.9	% Moisture of Sample:		Test: Pass <input type="checkbox"/> Fail <input type="checkbox"/>

size	Wt. Retained	% Passed	% Specifications	Tolerance
2 1/2		%	%	
1 1/2		%	%	
1		%	%	
5/8		%	%	
1/2		%	%	
3/8		%	%	
1/4		%	%	
Pan		4	86	%
Total		8	82	%

Gradation; Pass: _____ Fail: _____
 Fracture (spec. 75% tol. 70%) N/A
 S.E. (N/A)
 Pass/Fail Comments:
 * Oversize Material Retained on 1/4" screen + above Included in Sample Total.

size	Retained	Passing
4	302.8	14 % 86 %
8	381.6	18 % 82 %
16	459.7	21 % 79 %
30	525.8	24 % 76 %
40	557.1	26 % 74 %
50	607.9	28 % 72 %
80		% %
100	792.6	36 % 64 %
200	1040.4	47.8 % 52.2 %
Pan	1082.6	
Total	1083.2	Washed Wt. Pan Check

Construction Manual Tests
 T-61
 Fracture formula

$$P = \frac{[F + (Q/2)]}{F + Q + N} (100)$$

 T-176

$$SE = \frac{Sand (100)}{Clay}$$

 T-255

$$\% Moisture = \frac{wet - dry}{dry}$$

 T-27/11

$$correction = \frac{pan \#4 - split \#4 -}{}$$

16	79	%
30	76	%
40	74	%
50	72	%
80		%
100	64	%
200	52.2	%
Tare		
Wet wt.	2177.9	
Dry wt.		

Split the (#4-) above a min. of 500g. Per T 27/11 (watch overloaded fine screens) 470 g max under #4.

split wt.	correction	#4 weight	corrected wt. Log in above.
#40	X	+	=
#200	X	+	=
Pan	X	+	=

SHOW WORK BELOW! USE BACK OF TEST SHEET FOR ADDITIONAL CALCULATIONS:

Fracture:(700g Min) Percent Moisture:

$$P = \frac{[\quad + (\quad / 2)]}{ \quad + \quad + \quad } (100) = \underline{N/A} \quad \% Moisture = \frac{ \quad - \quad }{ \quad } = \underline{N/A}$$

 approximately 1000g
 Sand Equivalent: Average 2 tests Correction for bringing reduced sample back to proper weight:

$$SE = \frac{ \quad (100) }{ \quad } = \underline{N/A} \quad correction = \underline{ \quad } = \underline{ \quad }$$

Inspector's Signature <i>Dave C. Dierling</i>	Date: 5-6-15	Contractor's Signature	Date:
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**GRANT COUNTY
SIEVE ANALYSIS**

TEST HOLE # 2 - SAMPLE A

Contract # CRP 13-17 Br #328	Quantity:	Pit Name and #:	Contractor:
Sample #: Br 328-TH-2A	Date: 5-6-15	Time:	Sample Wt. (min. 20 Lbs.)(crusher, stockpile, other.)
Sample Wt. 1373.0	% Moisture of Sample:		Test: Pass <input type="checkbox"/> Fail <input type="checkbox"/>

size	Wt. Retained	% Passed	% Specifications	Tolerance
2 1/2		%	%	
1 1/2		%	%	
1		%	%	
5/8		%	%	
1/2		%	%	
3/8		%	%	
1/4		%	%	
Pan		4	97 %	
Total		8	88 %	

Gradation; Pass: _____ Fail: _____

Fracture (spec. 75% tol. 70%) **N/A**

S.E. (**N/A**)

Pass/Fail Comments:
* Oversized Material Retained on 1/4" screen & above screened out before testing.

size	Retained	Passing
4	45.8	3 % 97 %
8	167.2	12 % 88 %
16	266.3	19 % 81 %
30	332.5	24 % 76 %
40	360.7	26 % 74 %
50	400.9	29 % 71 %
80		% %
100	530.6	39 % 61 %
200	719.7	52 % 48 %
Pan	752.7	
Total	753.2	

Construction Manual Tests

T-61
Fracture formula
 $P = \left[\frac{[F + (Q/2)]}{F + Q + N} \right] (100)$

T-176
 $SE = \frac{Sand (100)}{Clay}$

T-255
% Moisture = $\frac{wet - dry}{dry}$

T-27/11
correction = $\frac{pan \#4 - split \#4 -}{split \#4 -}$

16	81 %	
30	76 %	
40	74 %	
50	71 %	
80	%	
100	61 %	
200	48 %	
		1373.0
Tare	Wet wt.	Dry wt.

Split the (#4-) above a min. of 500g. Per T 27/11 (watch overloaded fine screens) 470 g max under #4.

split wt. correction #4 weight corrected wt. Log in above.

#40 X + =

#200 X + =

Pan X + =

SHOW WORK BELOW! USE BACK OF TEST SHEET FOR ADDITIONAL CALCULATIONS:

Fracture:(700g Min) Percent Moisture:

$P = \left[\frac{[\quad + (\quad/2)]}{\quad + \quad + \quad} \right] (100) = \underline{N/A}$ %Moisture = $\frac{\quad - \quad}{\quad} = \underline{N/A}$

approximately 1000g Sand Equivalent: Average 2 tests Correction for bringing reduced sample back to proper weight:

$SE = \frac{\quad (100)}{\quad} = \underline{N/A}$ correction = $\frac{\quad}{\quad} = \underline{\quad}$

Inspector's Signature Dave C Dierling	Date: 5-6-15	Contractor's Signature	Date:
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**GRANT COUNTY
SIEVE ANALYSIS**

TEST HOLE # 2 - SAMPLE B

Contract # CRP 13-17 Br. #328	Quantity:	Pit Name and #:	Contractor:
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Sample #: Br. 328-TH-2B	Date: 5-5-15	Time:	Sample Wt. (min. 20 Lbs.)(crusher, stockpile, other.):
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Sample Wt. 2296.5	% Moisture of Sample:	Test: Pass <input type="checkbox"/> Fail <input type="checkbox"/>
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size	Wt. Retained	% Passed	% Specifications	Tolerance
2 1/2		%	%	
1 1/2		%	%	
1		%	%	
5/8		%	%	
1/2		%	%	
3/8		%	%	
1/4		%	%	
Pan		81 %		
Total		73 %		

Gradation; Pass: _____ Fail: _____

Fracture (spec. 75% tol. 70%) **N/A**

S.E. (**N/A**)

Pass/Fail Comments:
* Oversize Material Retained on 1/4" screen & above Included in Sample Total.

size	Retained	Passing
4	444.8	19 % 81 %
8	617.3	27 % 73 %
16	753.1	33 % 67 %
30	841.2	37 % 63 %
40	879.0	38 % 62 %
50	936.4	41 % 59 %
80		% %
100	1117.7	49 % 51 %
200	1376.3	59.9 % 40 %
Pan	1413.5	
Total	1419.4	Washed Wt. Pan Check

Construction Manual Tests

T-61
Fracture formula
$$P = \frac{[F + (Q/2)]}{F + Q + N} (100)$$

T-176
$$SE = \frac{Sand (100)}{Clay}$$

T-255
% Moisture = $\frac{wet - dry}{dry}$

T-27/11
correction = $\frac{pan \#4 - split \#4 -}{split \#4 -}$

16	67 %	
30	63 %	
40	62 %	
50	59 %	
80		
100	51 %	
200	40 %	
Tare		2296.5
Wet wt.		
Dry wt.		

Split the (#4-) above a min. of 500g. Per T 27/11 (watch overloaded fine screens) 470 g max under #4.

#40	split wt.	X	correction	+	#4 weight	=	corrected wt. Log in above.
#40		X		+		=	
#200		X		+		=	
Pan		X		+		=	

SHOW WORK BELOW! USE BACK OF TEST SHEET FOR ADDITIONAL CALCULATIONS:

Fracture:(700g Min) Percent Moisture:

$$P = \frac{[\quad + (\quad / 2)]}{\quad + \quad + \quad} (100) = \underline{N/A} \quad \% Moisture = \frac{\quad}{\quad} = \underline{N/A}$$

approximately 1000g Sand Equivalent: Average 2 tests Correction for bringing reduced sample back to proper weight:

$$SE = \frac{\quad (100)}{\quad} = \underline{N/A} \quad correction = \underline{\quad} = \underline{\quad}$$

Inspector's Signature <i>Dane C. Dering</i>	Date: 5-5-15	Contractor's Signature	Date:
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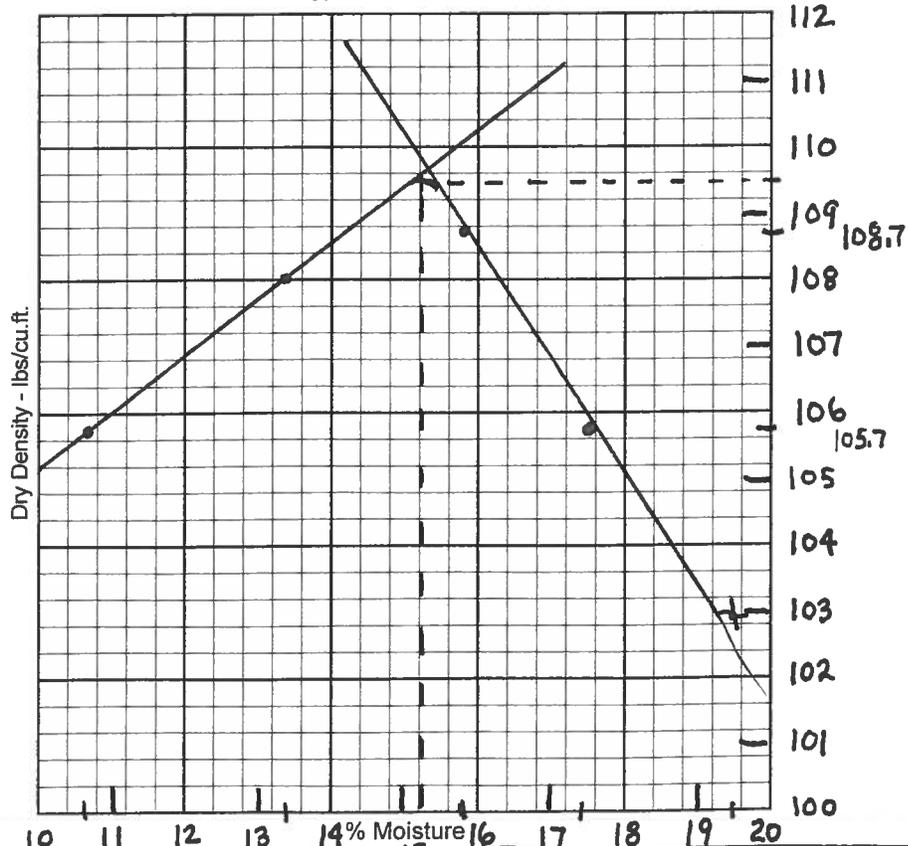


Field Sample Number Br328-TH-1		Lab Number GCPW		Control Number		Federal Aid Number	
SR Number	Section West side of Br. 328		Source of Materials N. shoulder of Road		Type of Material silty sand w/ caliche + gravel		
Percent Passing No. 4 76%	Date Taken 4/29/2015	Date Tested 5/4/2015		Station	Reference to C/L	Reference to Grade -2' to -4' Sub	

Can Number	C1	C2	C3	C4	C5
Specimen Wt. + Cyl.	6005.8	6093.0	6141.8	6120.2	6100.2
Cylinder Wt.	4236.1	4236.1	4236.1	4236.1	4236.1
Specimen Wt. (Grams)	1769.7	1856.9	1905.7	1884.1	1864.1
Specimen Wt. (lbs)					
Volume of Cylinder	30	30	30	30	30
Wet Density	116.9	122.7	125.9	124.5	123.1
Wet Sample + Can	710.3	708.7	702.1	684.7	700.1
Dry Sample + Can	657.7	643.5	628.4	607.3	617.5
Weight of Moisture	52.6	65.2	73.7	77.4	82.6
Weight of Can	162.9	164.1	163.0	165.3	183.8
Weight of Dry Soil	494.8	479.4	465.4	442.0	433.7
% Moisture	10.6	13.6	15.8	17.5	19.5
Dry Density	105.7	108.0	108.7	105.7	103.0
Speedy	Gauge				
Grams	% Moisture				
Speedy Dry Density					

NOTE: Oven Dry & Speedy to be used for correlation on typical materials.

OPTIMUM MOISTURE
15.2%
MATERIAL ABOVE #4
24%
 $15.2 - (15.2 \times .24) = 11.6$



Optimum Moisture 15.2%	Maximum Density 109.5	By <i>Paul C. [Signature]</i>	Date 5/4/15
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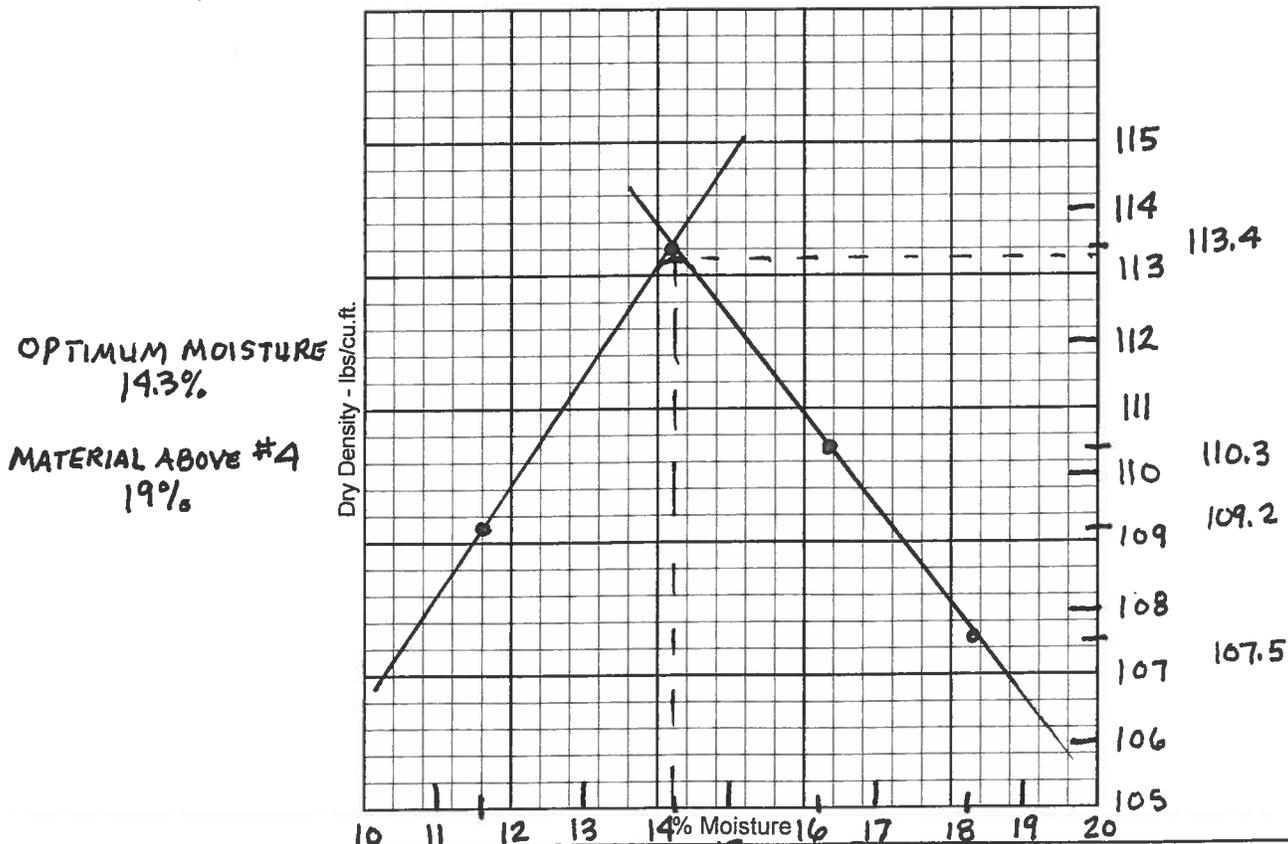


Moisture - Density Relationship Report

Field Sample Number Br328-TH-2		Lab Number GCPW		Control Number		Federal Aid Number	
SR Number	Section East side Br.328		Source of Materials N. Shoulder of Road		Type of Material Silty sand w/caliche & sm gravel		
Percent Passing No. 4 81%	Date Taken 4/29/2015	Date Tested 5/5/2015		Station	Reference to C/L	Reference to Grade -2' to -5' Sub	

Can Number	P1	P2	P3	P4				
Specimen Wt. + Cyl.	6080.9	6197.4	6176.7	6160.8				
Cylinder Wt.	4236.1	4236.1	4236.1	4236.1				
Specimen Wt. (Grams)	1844.8	1961.3	1940.6	1924.7				
Specimen Wt. (lbs)								
Volume of Cylinder	30	30	30	30				
Wet Density	121.9	129.6	128.2	127.1				
Wet Sample + Can	725.8	717.4	691.8	685.0				
Dry Sample + Can	667.4	648.0	617.9	604.8				
Weight of Moisture	58.4	69.4	73.9	80.2				
Weight of Can	162.2	162.6	162.9	164.1				
Weight of Dry Soil	505.2	485.4	455.0	440.7				
% Moisture	11.6	14.3	16.2	18.2				
Dry Density	109.2	113.4	110.3	107.5				
Speedy	Gauge							
Grams	% Moisture							
Speedy Dry Density								

NOTE: Oven Dry & Speedy to be used for correlation on typical materials.



Optimum Moisture 14.3 %	Maximum Density 113.4	By <i>Dave C. [Signature]</i>	Date 5/5/2015
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Martin Rd., CRP 13-17 -- Permanent Signing Appendix - Sheet #1

Sign No.	Quantity	Sign Code	Sign Description	Sign Size		Sheeting Type	Letter Size or Code	Post Material	Post Size	Location
				x	y					
1	1	W1-5R	WIDING RD RIGHT	30"	30"	High Intensity Prismatic	Standard	Steel		10+70
2	1	W13-1	advisory speed 25 mph	24"	24"	High Intensity Prismatic	Standard	Steel		10+70 bottom of sign no. 1
3	4	W1-8	CHEVRON	18	24	High Intensity Prismatic	Standard	Steel		START NEAR 19 + 68 END NEAR 23+36
4	4	W1-8	CHEVRON	18	24	High Intensity Prismatic	Standard	STEEL		START NEAR 23+99 END NEAR 25+49
5	1	W1--5	WINDING RD R	30"	30"	High Intensity Prismatic	Standard	Steel		28+71
6	1	W13-1	advisory speed 25 mph	24"	24"	High Intensity Prismatic	Standard	Steel		UNDER SIGN NO. 5
7	1	W1-5L	WINDING RD L	30"	30"	High Intensity Prismatic	Standard	Steel		36+60
8	1	W1-8	ADVISORY SPEED 30 mph	24"	24"	High Intensity Prismatic	Standard	Steel		UNDER SIGN NO. 7
9	1	W1-5R	WINDING RD R	30"	30"	High Intensity Prismatic	Standard	Steel		46+47
10	1	W1-8	ADVISORY SPEED 30 mph	24"	24"	High Intensity Prismatic	Standard	Steel		UNDER SIGN NO. 9
11	1	W1-3R	Reverse Turn R	30"	30"	High Intensity Prismatic	Standard	Steel		88+87
12	1	W13-1	ADVISORY SPEED 30 mph	24"	24"	High Intensity Prismatic	Standard	Steel		UNDER SIGN NO. 11
13	1	W1-3R	Reverse Turn R	30"	30"	High Intensity Prismatic	Standard	Steel		97+13
14	1	W13-1	ADVISORY SPEED 30 mph	24"	24"	High Intensity Prismatic	Standard	Steel		UNDER SIGN NO. 13
15	1	W1-3L	Reverse Turn Left	30"	30"	High Intensity Prismatic	Standard	Steel		168+09
16	1	W13-1	advisory speed 25 mph	24"	24"	High Intensity Prismatic	Standard	Steel		UNDER SIGN NO.15
17	4	W1-8	CHEVRONS	18	24	High Intensity Prismatic	Standard	Steel		START NEAR 172+60
18	1	W1-5R	WINDING RD R	30"	30"	High Intensity Prismatic	Standard	Steel		192+15
19	1	W13-1	advisory speed 25 mph	24"	24"	High Intensity Prismatic	Standard	Steel		UNDER SIGN NO.18
20	4	W1-8	CHEVRON	18	24	High Intensity Prismatic	Standard	Steel		START NEAR 196+42
21	1	W1-5L	WINDING RD L	30"	30"	High Intensity Prismatic	Standard	Steel		205+05
22	1	W13-1	advisory speed 25 mph	24"	24"	High Intensity Prismatic	Standard	Steel		UNDER SIGN NO.21
23	1	W3-1A	Stop Ahead Symbol	36"	36"	High Intensity Prismatic	Standard	Steel		200 ft EAST OF M NW/ADAMS RD
24	1	W2-1	Cross Road	30"	30"	High Intensity Prismatic	Standard	Steel		350 FT EAST OF M NW / ADAMS RD
25	1	D3-1	M NW	24"	8"	High Intensity Prismatic	6" C	Steel		BELOW SIGN NO. 24
26	1	W2-2	Side Road	30"	30"	High Intensity Prismatic	Standard	Steel		125 FT WEST OF K NW
27	1	D3-1	K NW	24"	8"	High Intensity Prismatic	6" C	Steel		BELOW SIGN NO. 26
28	1	R1-1	Stop	36"	36"	High Intensity Prismatic	Standard	Steel		K NW & MARTIN RD
29	1	D3-1	K NW	24"	8"	High Intensity Prismatic	6" C	Steel		ON TOP OF SIGN NO.28
30	1	D3-1	Martin	30"	8"	High Intensity Prismatic	Standard	Steel		ON TOP OF SIGN NO. 28
31	1	W2-2	Side Road	30"	30"	High Intensity Prismatic	Standard	Steel		125 FT EAST OF K NW
32	1	D3-1	K NW	24"	8"	High Intensity Prismatic	6" C	Steel		BELOW SIGN NO. 31

Construction Notes:

For Code References and Standard Details See Washington State Sign Fabrication Manual.

Street Identification Signs shall have 1 inch field borders on the top and bottom and 2 inch field side borders.

All letters shall be High Intensity Prismatic.

ALL POST WILL BE ALLIED TELES PAR 2" X 2 "X 12' BY 12 GUAGE WITH 36 " BASES UNLESS LISTED OTHER WISE

Sign locations will be staked in the field by the Engineer.

* The sign length shall be made as long as necessary to accommodate the message, 24" minimum size.

ANY QUESTIONS REFER TO THE WASHINGTON STATE MUTCD

D3 Message (Typical)



Advance ID (Typical)



