

OREGON DEPARTMENT OF TRANSPORTATION
MATERIALS LABORATORY
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Contract No.: C14649 EA: CON03587 F.A. No STP-S091(055) Lab No. 14-MD0088
Project Name: OR99W: Newbury St & Vermont St Bridge Rehab Amendment 1 Date:
Highway: Pacific Highway West County: Multnomah Amendment 2 Date:
Begin MP: 3.21 End MP: 3.55 Amendment 3 Date:
Contractor: Wildish Standard Paving Co.
Project Manager: Statler, Wayne Use: Level 3 1/2" Dense Mix

BITUMINOUS MIX DESIGN REVIEW

Lab Name: Knife River Certified Mix Design Technician: Daniel Schnurbusch
Mix Producer: Knife River - Coffee Lake/Reedpit Contractor Mix Design No.: 5014-OCGM7T200
Asphalt Supplier: McCall Transferred from Lab No.: 13-MD0088
Asphalt Grade: PG64-22 Antistrip Information: %
Gb (60°/60° F): 1.030
RAP and Aggregate properties updated for 2014.

Stockpile Information

Stockpile Size	1/2" - #4	#4 - #8	#8 - 0	#8 - 0 W	RAP	Fines
Stockpile Source	24-023-2	24-023-2	24-023-2	24-023-2	Slkpile	24-023-2
Stockpile Percentage	31.0	8.0	12.0	17.0	30.0	2.0
Bulk Specific Gravity (Gsb)	2.579	2.558	2.547	2.566	2.647	2.625
						0.100

Job Mix Formula

Sieve	% Pass	Paving Course	% Asphalt by Wt. of Mixture (Pb)	Maximum Specific Gravity (Gmm):
3/4" (19mm)	100	Wearing ☒	5.7	2.438
1/2" (12.5mm)	99	Base ☒		
3/8" (9.5mm)	82	Leveling ☒		
1/4" (6.25mm)	63	Temporary ☒		
No. 4 (4.75mm):	59			
No. 8 (2.36mm):	41	VMA:	14.8	VFA: 73
No. 16 (1.18mm):	26	Percent A/C in Rap:	5.2	Combined Aggregate Gravity (Gsb): 2.592
No. 30 (0.60mm):	18	Number of Gyration:	80	Gmb Sample Weight: 4630
No. 60 (0.30mm):	13	Void Target (Va):	4.0	Mixing Temp Range: 305-315 F
No. 100 (0.15mm):	9	Tensile Strength Ratio:	89	Placement Temp Range: 285-293 F
No. 200 (0.075mm):	6.9			

Compliance Statement: Based on the information submitted for review, this mix design does comply with specifications.

Total Lab Charges: \$0.00

Reviewed by Signature

Chris Duman

16 Sept 2014
Date

C: Files; Project Manager; Chris Duman, Pavements; Bituminous; Region 1 QA Coord;
Larry Iig, Pavements

Wildish Standard Paving Co.