



Asphalt Concrete Conformance Report

TO: _____ ATTN: _____
 FROM: _____
 DATE: _____
 CONTRACT: _____
 SALES QUOTE #: _____ JOB #: _____

CCA,LLC: MIRAMAR PLANT

ASPHALT CONCRETE MIX DESIGN
 Standard Specifications for Public Works Construction
 2018 Greenbook Section 203-6.5

3/4" Type III B3 (with recycled plastic additive)

Mix # 33441163

Aggregate Materials % Used		Hanson Bin #4 11%	Hanson Bin #3 13%	Hanson Bin #2 25%	Hanson Bin #1 35%	M.F. 1%	CCA Recycle 15%	Combined Gradation 100%	Specification Table 203-6.5.4(A) 3/4" Type III, B3	
Sieve Size									Individual	Mov. Avg.
1"	25mm	100	100	100	100	100	100	100	100	100
3/4"	19mm	94	100	100	100	100	100	99	90-100	95-100
1/2"	12.5mm	25	71	100	100	100	98	88		
3/8"	9.5mm	5	17	98	100	100	86	76	60-84	65-80
#4	4.75mm	1	2	26	100	100	68	53	40-60	45-60
#8	2.36mm	1	1	3	82	100	58	39	24-50	30-45
#16	1.18mm	1	1	2	59	100	39	28		
#30	600µm			2	41	100	24	19	11-29	15-25
#50	300µm			1	25	100	19	13		
#100	150µm				14	99	12	8		
#200 (Wash)	75µm				9	99	8.5	5.2	1-9	3-7
C.V. - Cleanliness Value		79	81	79						
S.E. - Sand Equivalent			CA 217		81			81		45 Min.
% Crushed		98.7	CA 205							25 Min.
Moisture Vapor		34	CA 307							25 Min.
Stripping		None	CA 302							25% Max.
LA Rattler @ 100 Rev.		3.0%	CA 211							15 Max.
@ 500 Rev.		15.0%								52 Max.
Swell		0.016	CA 305							0.030 Max.
Hveem Density		146.1	CA 366	Max. Theo.	152.2	Voids %*	4.0			
Hveem Stability		43	CA 366							35 Min.

Binder content shall be 5.1% PG 64-10 Asphalt Oil by Dry Weight of Aggregate (DWA)
 Binder will consist of PG 64-10 plus MacRebur MR8 recycled plastic additive @ 6.5 lbs per ton of HMA.
 Note: The maximum density should be verified on the date of actual production or when the test strip is placed.
 *Air void values are not to be used as acceptance criteria per Green Book section 203-6.4.1

Respectfully submitted,

Patrick Terrell
 Technical Services Director
 California Commercial Asphalt, LLC



Asphalt Concrete Conformance Report

TO: _____ ATTN: _____
 FROM: _____
 DATE: _____
 CONTRACT: _____
 SALES QUOTE #: _____ JOB #: _____
CCA,LLC: MIRAMAR PLANT

ASPHALT CONCRETE MIX DESIGN
 Standard Specifications for Public Works Construction
 2018 Greenbook Section 203-6.5

1/2" Type III C2 (with recycled plastic additive) Mix # 31242163

Aggregate Materials % Used		Hanson Bin #4 0%	Hanson Bin #3 25%	Hanson Bin #2 16%	Hanson Bin #1 43%	M.F. 1%	CCA Recycle 15%	Combined Gradation 100%	Specification Table 203-6.5.4(A) 1/2" Type III C2	
Sieve Size									Individual	Mov. Avg.
1"	25mm		100	100	100	100	100	100	100	100
3/4"	19mm		100	100	100	100	100	100	100	100
1/2"	12.5mm		93	100	100	100	99	98	89-100	95-100
3/8"	9.5mm		35	94	100	100	94	82	70-94	75-90
#4	4.75mm		2	8	95	100	69	54	44-72	50-67
#8	2.36mm		1	1	68	100	51	38	30-54	35-50
#16	1.18mm		1	1	52	100	39	30		
#30	600µm			1	38	100	29	22	10-34	15-30
#50	300µm				24	100	20	14		
#100	150µm				14	100	12	9		
#200 (Wash)	75µm				8.8	95.0	8.1	5.9	2-10	4-7
C.V. - Cleanness Value			81	79					65 Min.	
S.E. - Sand Equivalent			CA 217		81			85	45 Min.	
% Crushed		98.7	CA 205						25 Min.	
Moisture Vapor		34	CA 307						25 Min.	
Stripping		None	CA 302						Not Specified	
LA Rattler @ 100 Rev.		3.0%	CA 211						15 Max.	
@500 Rev.		15.0%							52 Max.	
Swell		0.016	CA 305						0.030 Max.	
Hveem Density		145.7	CA 366	Max. Theo.	151.8	Voids %*	4.0			
Hveem Stability		42	CA 366						35 Min.	

Total binder content shall be 5.6% by Dry Weight of Aggregate. Virgin binder shall be decreased by amount of MR8. Binder will consist of PG 64-10 plus MacRebur MR8 recycled plastic additive @ 6.5 lbs per ton of HMA.
 Note: The maximum density should be verified on the date of actual production or when test strip is placed.
 *Air voids values are not to be used as acceptance criteria per Green Book section 203-6.4.1

Respectfully submitted,

Patrick Terrell
 Technical Services Director
 California Commercial Asphalt, LLC