MATT MENU SELECTION -- 04

ASPHALTIC CONCRETE PLANT REPORT - (2000 Specifications)

English/Metric ___ *(M / E)* Spec Year 2 0 0 0 *< Entry Fields located on MATT Menu*

Proj.No. ___-___-___ Plant H ___ Mix Code ___

Proj.No. ___-___-___ Seq. No. ___ Lot Number ___

Proj.No. ___-___-___ Purp Code 3 No. Gradations ___

Proj.No. ___-___-___ TSR, % ___ Ten.Str.Control ___

Proj.No. ___-___-___ Lot Size ___ Act.Lot Tons (Mg) _____

Start Date ___-___-___ Weather: _____

End Date ___-___-___ Temp:High _____ °F(°C) Low _____ °F (°C)

ASPHALT CONTENT

	AM Check			PM Check		
	Asphalt	Aggr	RAP	Asphalt	Aggr	RAP
2nd Meter Reading						
1st Meter Reading						
Difference						
Corr.lbs of AC/Aggr						
% AC						

ANTI STRIP CONTENT

	AM Check		PM Check	
	Asphalt	Anti Strip	Asphalt	Anti Strip
2nd Meter Reading				
1st Meter Reading				
Gallons				
Corr. Gal. at 60 °F				
Pounds Used				
% Anti Strip				

THEORETICAL MAXIMUM SPECIFIC GRAVITY, Gmm "RICE" *(AASHTO T 209 or DOTD TR 327)*

		Gmm1		Gmm2	
		Sample a	Sample b	Sample a	Sample b
Wt of Mix	A				
Wt of Pyc. & Water	D				
Wt of Pyc. Water & Mix	E				
Difference	A + D - E				
Gmm	A/(A + D - E)	Gmm 1a	Gmm 1b	Gmm 2a	Gmm 2b

Gmm1 = (Gmm1a + Gmm1b) / 2 = _____ Gmm2 = (Gmm2a + Gmm2b) / 2 = _____

Theo. Max. Sp. Gr Gmm = (Gmm1 + Gmm2) / 2 = _____

% AC BY EXTRACTION *(DOTD TR 323)*			TEST 1	TEST 2
Wt. (Mass) of Mix, Trays & Pan	M_T			
Wt. (Mass) of Trays & Pan	M_P			
Total Wt. (Mass) of Mix	M_S			
Correction Factor for Mix, %	CF			
Moisture Correction, % *(TR 319)*	MC	$M_T - M_P$		
Wt. (Mass) Loss, %	M_L			
AC Content, %	AC	$(M_L - CF)$ or $(M_L - CF - MC)$		
Dry Total Wt. (Mass) of Aggr.	M			
Dry Wt. (Mass) After Wash, *(TR 309)*	X			
Decantation Loss	Y	M - X		
Accumulated Total	Z			
% Difference		(M - Z / M) (100)		
Sample Taken - Tons/Mg Accum				

Technician: _____

Inspector: _____

District Lab: _____

Approved By: _____

GRADATION OF EXTRACTED AGGREGATE *(AASHTO T 30 or DOTD TR 309)* - % CRUSHED *(DOTD TR 306)*

SIEVE	TEST NO. 1					TEST NO. 2				
	WEIGHT (Mass)	%	% COARSER	% PASSING	DEV 1	WEIGHT (Mass)	%	% COARSER	% PASSING	DEV 2
2 in. (50 mm)										
1 1/2 in. (3.75 mm)										
1 in. (25.0 mm)										
3/4 in. (19.0 mm)										
1/2 in. (12.5 mm)										
3/8 in. (9.5 mm)										
No. 4 (4.75 mm)										
No. 8 (2.36 mm)										
No. 16 (1.18 mm)										
No. 30 (600 μm)										
No. 50 (300 μm)										
No. 100 (150 μm)										
No. 200 (75 μm)										

Passing 200 (75 μm)			WT CRUSHED			WT CRUSHED		
Decant. Loss	Y		WT + 4 (4.75 mm)			WT + 4 (4.75 mm)		
Accum. Total	Z		% CRUSHED			% CRUSHED		

AVERAGES

Sieves	Average	Avg. Dev.	JMF Limits
2 in. (50 mm)			
1 1/2 in. (37.5 mm)			
1 in. (25.0 mm)			
3/4 in. (19.0 mm)			
1/2 in. (12.5 mm)			
3/8 in. (9.5 mm)			
No. 4 (4.75 mm)			
No. 8 (2.36 mm)			
No. 16 (1.18 mm)			
No. 30 (600 µm)			
No. 50 (300 µm)			
No. 100 (150 µm)			
No. 200 (75 µm)			
% AC			
% AC(Met/Sc)		% AC- JMF	
% Crushed		Min.	

2000 Specifications

DOTD 03-22-3085
Rev. 06/02

PLANT TEST PROPERTIES (AASHTO T 166, T 209 & T 245 / DOTD TR's 304, 305 & 327)			1	2	3	4	AVERAGE
Wt (Mass) in Air	A						
Wt (Mass) in Water	B						
Difference		A - B					
SSD Wt (Mass)	C						
Bulk Sp Gr of Mix (G_{mb})	D	A / (C - B)					
Density	E	D x 62.4					
Theo Max Sp Gr (G_{mm})	F						
% Gmm	G	100 x D / F					
% Voids, V_a	H	100 - G					
% VMA	J	100 - (D x Ps) / Gsb					
% VFA	K	100 X (J - H) / J					
Dial Reading Marshall Test (AASHTO T245)							
Stability		From Chart					
Thickness							
Correction Factor							
Corrected Stability							
Flow 1/100							
Sample Taken Tons/Mg Accum.							
Temp of Mix °F							

DISCHARGE TEMPERATURE

JMF Limits: _____

	TONS ACC.	ACT. TEMP.
1		
2		
3		
4		
5		

% MOISTURE CONTENT (AGGR)	
% MOISTURE CONTENT (MIX)	

	TEST 1	TEST 2
% AC Met/Sc		
% Anti-Strip		
% Lime		

PERCENT PAY

Stability	
Gradation	
Anti - Strip	

Ps *(from JMF)* _____

Gsb *(from JMF)* _____

$$Gse = \frac{100 - Pb}{\frac{100}{Gmm} - \frac{Pb}{Gb}} = _____$$

(Pb is % A.C., Gb = 1.03)

$$Pba = \frac{(100 \times Gb)(Gse - Gsb)}{Gsb \times Gse} = _____$$

$$Pbe = Pb - \frac{Pba \times Ps}{100} = _____$$

**** Note: Report Once per Lot ****

MATERIAL		SOURCE	COLD FEED, %	COLD FEED + RAP, %	MIX, %
Bin No. 1					
Bin No. 2					
Bin No. 3					
Bin No. 4					
Bin No. 5					
Bin No. 6					
RAP Aggr.					
RAP AC					
Asphalt	Grade				
			100 %		100 %