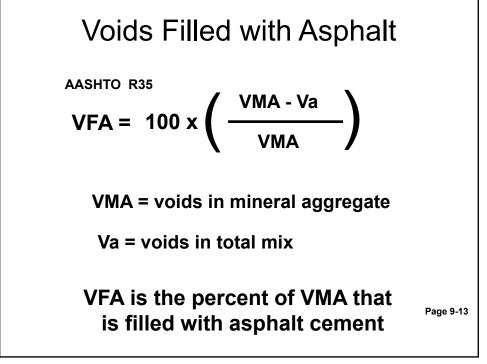
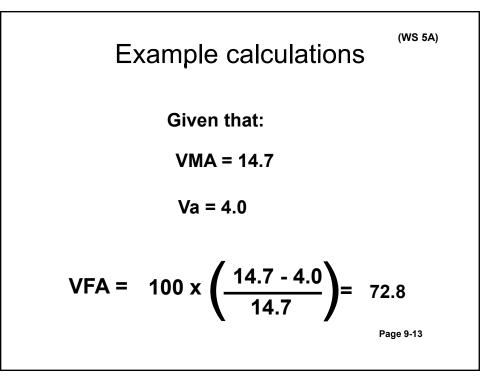


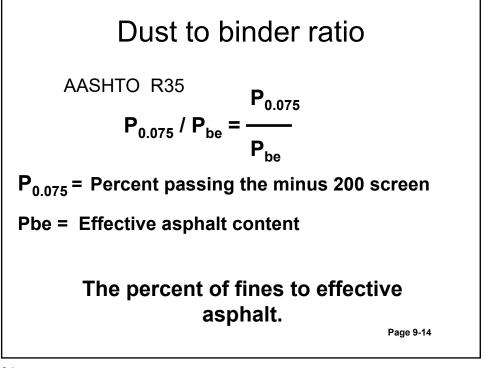
(WS 4A)
Example Calculations
Given that :

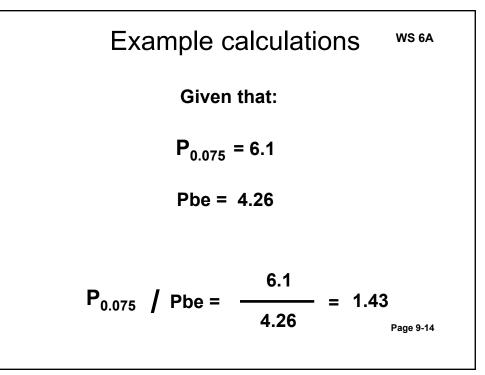
$$Gmb = 2.426$$

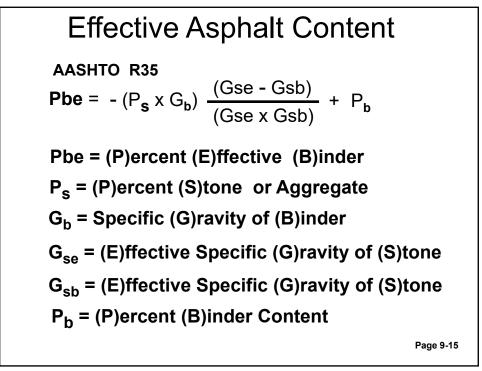
 $Ps = .95 (100 - 5.0 \text{ AC })/100$
 $Gsb = 2.703$
 $VMA=100 \times \left(1 - \frac{2.426 \times .95}{2.703}\right) = 14.7$
 $Pag 9-12$







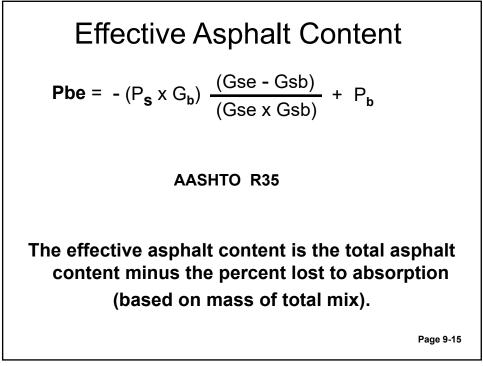


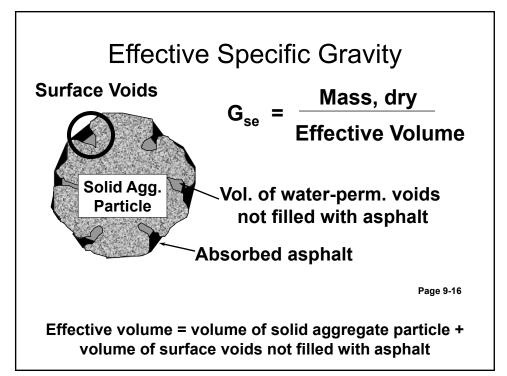


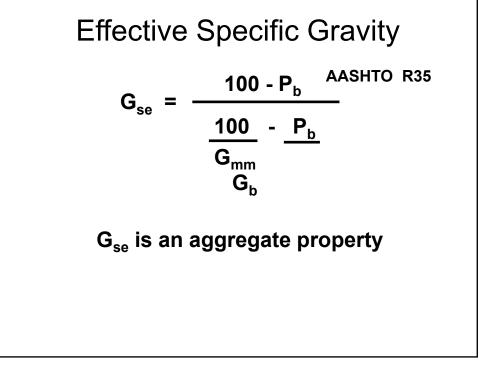
Effective Asphalt Content (WS 7A)
AASHTO R35

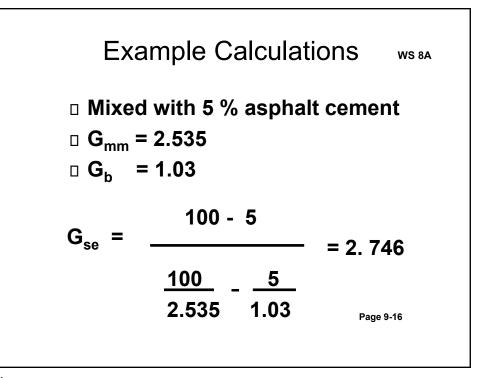
$$P_{s} = 95.0 (100 - 5.0 \text{ AC})$$

 $G_{b} = 1.025$ $P_{b} = 5.0$
 $G_{se} = 2.760$ $G_{sb} = 2.703$
Pbe = - (95.0 x 1.025) $\frac{(2.760 - 2.703)}{(2.760 x 2.703)} + 5.0$
Pbe = 4.26

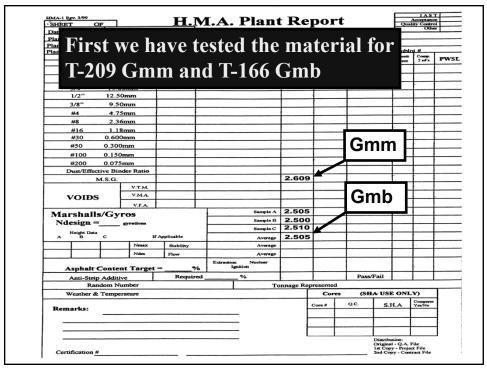




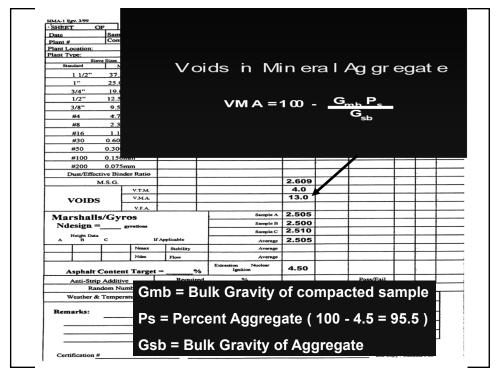








SHEET C	DF Samn	le Date											
Plant #	Contr												
Plant # Plant Location:													
Plant Type:			Mix #										
Sie	ve Sizes		Grac	1									
Standard	Me	turic	J.M.F.		Percent Air Voids								
1 1/2"	37.5	0mm											
1"	25.00	Omm											
3/4"	19.0	0mm						~					
1/2"	12.50	mm			$\nabla TM = (1)$			- <u>G_{mb}</u>)100 G _{mm}					
3/8"	9.50	mm						Gmm					
#4	4.75	mm											
#8	2.36	mm											
#16	1.18												
#30	0.600												
#50	0.300												
#100	0.150												
#200	0.075						1						
Dust/Effec													
	M.S.G.	acr ratio				2.609							
	vi. S.G.	V.T.M.				4.0	1			-			
	ŀ	V.T.M. V.M.A.				0	+						
VOIDS	• -						+						
		V.F.A.				2.505							
Marshall					Sample A								
Ndesign =	·	gyrations			Sample B	2.500							
Height Data					Sample C								
A B	c				Average	2.505	·						
	1	Nmax	Stability		Average					-			
	1	Ndes	Flow		Average								
				Extract	ion Nuclear Ignition								
Asphalt	Conten	t Target		<u> </u>									
Anti-Strip			Requir	ed	<u>~</u> %		1	Pass	/Fail				
Rar	ndom Nu	mber			То	nnage Re	presented						
Weather &	: Temper	ature					Con	es (SE	A USE O	NLY)			
							Core #	Q.C.	S.H.A	Compares Yes/No			
Remarks:						t			-				
						ŀ							
						ł							
						- 1							
									Distribution: Original - Q.	A File			



·SHEET O		le Date	<u> </u>	<u>r</u> -							
Date Plant #	Contr										
Plant Location:				A							
Plant Type:		Mix #		<u>.</u>							
	Sieve Sizes		Gradation		n.						
		tric	J.M.F.	t							
1 1/2"	37.5				Vaida	E 311		with	^ ~	- h	
1"	25.00			<u> </u>	Voids		ea v	with	AS	spn	an
3/4"	19.00			<u> </u>							
1/2"	12.50			i							
3/8"	9.50	mm		L	-						
#4	4.75	mm		L	- V	EA =	100 -		- V_		
#8	2.36	mm			¥		100 X		· ^ ~		
#16	1.18							VIV			
#30	0.600	mm									
#50	0.300	mm									
#100	0.150	mm									
#200	0.075	mm									
Dust/Effecti	ve Bind	der Ratio								1	
м	.s.g.					2.609				-	
		V.T.M.				4.0					
VOIDS	Г	V.M.A.				13.0					
voibs	F	V.F.A.				69.4	T				
Marshalls	/C-w	.06			Sample A	2.500				1	
				t	Sample B	2.510					
	Ndesign = gyrations			L I	Sample C	2.505					
Height Data A B	LC .	Applicable		Average	2.505						
		Nmax	Stability	+	Average					<u> </u>	1. 1.
		Ndes	Flow	-	Average					1	
I					Extraction Nuclear						
Asphalt C	onten	t Target	9	10	Ignition	4.50					
Anti-Strip	Additiv	e	Requir	red _	%	-		Pass	s/Fail		
	iom Nu				To	nnage Re	presented	d			
Weather &	Temper	ature					Cor		LA US	E ONI	m I
							Core#	Q.C.		H.A	Compares Yes/No
Remarks:	Gsl	b: 2.750	Gse: 2.	800			Core #	4.6.	<u> </u>	H.A	Yes/No
									+		
			-						Distribu	ution:	

• SHEET Date	OF	ample Date											
Plant #		Contract #											
Plant Location:													
Plant Type:			Mix #										
Standard	ieve Sizes	letric	LM.F.		Dus	st to	bin	der r	atio				
			J.M.F.										
1 1/2"		50mm											
1"		00mm						P _{0.075}					
3/4"		DOmm			в	,	в –						
	1/2" 12.50mm			$P_{0.075} / P_{be} =$									
3/8"	9.5	Omm						P_{be}					
#4	4.7	5mm						be					
#8	2.3	6mm											
#16	1.1	8mm											
#30	0.60	Omm											
#50	0.300	Omm											
#100	0.150	mm											
#200	0.075	5mm				3.9							
		der Ratio				1.01	T			1			
	M.S.G.					2.609	•		-				
		V.T.M.				4.0							
VOID	VOIDS V.M.A.					13.0							
VOID						69.4							
	- 10	V.F.A.			Sample A	2.500	_			+ +			
Marshal				Sample B 2.51						+ +			
Ndesign	Ndesign = gyrations				Sample C 2					+			
Height Di A B	Height Data A B C If				Average 2.50		_			+ +			
			If Applicable				·			+			
		Nmax	Stability		Average					+ +			
-		Ndes	Flow		Average					+			
Asphal	Conte	nt Target	- ?	6 Extraction	on Nuclear Ignition	4.50				- 1			
	ip Additi	T	Requir	ed	%			Pass/	Fail				
	andom N		-		To	nnage Re	presented	1	•				
	& Tempe						Cor		A USE ON	LYD	Т		
								1	Compares Yes/No	1			
Remarks:	Gs	b: 2.750	Gse: 2.	.800			Core #	Q.C.	S.H.A	Yes/No	ł		
									l	<u> </u>	1		
									· · · · ·		-		
						[1			
									Distribution: Original - Q.A.				

