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ation													UNIT WI	EIGHT		T-1	19				PCF	M=(G-T)
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TEST OPERATOR & DATE

RECEIVED DATE

SUPERVISOR

Flakiness	Index	(Ariz 233)	
i iakiiiess	IIIUEA	(7112 233)	

Sieve Size	1-1/2"	1"	3/4"	1/2"	3/8"	1/4"	#4	#8
% Pass from Sieve Analysis								
% Ret. From Sieve Analysis (F)								
Weight of Test Sample								
Weight Passing Slot								
*Percent Passing Slot (P)								

NOTE: Only the size fractions which have 10 or more percent retained are tested for passing the appropriate slot, and used to determine the Flakiness Index by the equation below.

(O.D. basis)

*Percent Passing Slot (P) = $\frac{\text{Weight Passing Slot}}{\text{Weight of Test Sample}} x$ 100

Fractured Particles (T-335)

At least one Fractured Face: Wt. of Fract. Particles (F) =
Wt. of Non-Fract. particles (N) =
Wt. of Questionable particles (Q) =
$P = \left(\frac{F + \frac{Q}{2}}{F + Q + N}\right) \times 100$
At least two Fractured Faces: Wt. of Fract. Particles (F) =
Wt. of Non-Fract. particles (N) =
Wt. of Questionable particles (Q) =

Fractured Particles =

FLAKINESS INDEX = $[F(1-1/2") \times P(1-1/2")] + \cdots + [F(No. 8) \times P(No. 8)]$ $[F(1-1/2") + \cdots + F(No. 8)]$

FLAKINESS INDEX =

			Dimension F	Ratio Used:				
	A	В	С	D	E	F		
Size Fractions (Passing by Retained)	Cumulative Percentage Passing (%)	Individual Percentage Retained (%)	Weight of Sample (g)	Weight of Flat & Elongated Particles (g)	Percentage Flat & Elongated Particles (D/C x100)	Individual % Retained x % F&E Particles (B x E)		
3 in. x 2 in.								
2 in. x 1 ½ in.								
1 ½ in. x 1 in.								
1 in. x ¾ in.								
³⁄₄ in. x ½ in.								
½ in. x 3/8 in.								
3/8 in. x No. 4								
Total	of Column B $ o $		Total of Column F →					
			% Flat & Elongated Particles = $\frac{\text{Total F}}{\text{Total B}}$ = = %					

Specific Gravity and Absorption of Coarse Aggregate (T-85)

where:	A = mass of oven-dry sample in air, g. B = mass of saturated-surface-dry sample in air, g. C = mass of saturated sample in water, g.		
Bulk Sp. Gr. (SSD basis)	$=\frac{B}{B-C}=\frac{(}{(})$	=	
Apparent Sp. Gr	$=\frac{A}{A-C}=\frac{(}{(})$	=	
Absorption percent	$t = B - A \times 100 = ($	100 =	