TRA	PAR <b>NSF</b>		ATIC			ERS	7 [	SC		D AGGRE	ENT OF TRANSPORTATE TABULATION TL TYPE	PUR-	TES LAE		SIZE		SIZE %	
	TES	TNC	D.		SUF			FROM	SAMPL	ED BY	MO DAY YEAR TIME  MILITARY TIME  LIFT NO. RDWY STATION							
		(	ORI	GINA	IL SC	DUR	CE		PR	OJECT ENG SUPERVI REM	GINEER / SOR PROJECT	T NUMBER					DECIMAL JMBER	
											CONTACT P	HONE NO.						
		e:	01/0	Anal	voio r	and \	Noch /T	-27/T-11	`							¬ T:	= AASHTO <sup>-</sup>	Test
		JI	eve	Allai				-21/1-11	,		Liquid Limit (LL)	T-	89			┦ .	70101110	1001
				+	3 ″	OVER	SI∠E + 6 ″				Plastic Limit (PL)			-90		4	SPECS.	
											Plasticity Index (PI) = LL - PL T-90							
						_	•	_			Abrasion method (A,B,C,D)			T-96	3			
											@ 100 Revolutions %							%
	WET WT. OF - #4 =										@ 500 Revolutions		%	,	%			
										CUMULATIVE % RET.	Specific Gravity, OD	T-84 / T-85						
CCUMUL	.ATIVE	WEIGI	HTS R	ETAIN	ED		% RET.	% PASS	SPECS.	% RET. FINENESS MODULUS	Specific Gravity, SSD							
3″											Specific Gravity, Apparent	T-84 / T-85						_
1/2″											Absorption, H <sub>2</sub> O	T-84 / T-85					T-99/T-180	
2″					<u></u>	_					Proctor Method					}_	Method A,B,C,D	
1/2″											Optimum Moisture				$\neg$	%	. ,_,_,	
1″						_					Max. Dry Density				$\neg$	PCF	:	
/4"					ļ	_					Sand Equivalent					- 		
/2"					<u> </u>	_			-	-						_ 		
/8"									-		At Least One Fractured Face		335			<b> </b> %		
/4"											At Least Two Fractured Faces		335			] % ¬		
#4 #4					<u> </u>			]	] [	1	Uncompacted Void Content T-304 A, B, or C							
otal					H				] [		Moisture Content T-265 / T-255							
Jiai						•	IF TOTAL	SAMPLE IS	S WASHED:		Flakiness Index	ARIZ 2	233					
								SHED WT. : ED WT. =			Carbonates	ARIZ 2	238			Ī		
DRY V	WT. C	)F -#4	SPL	IT				RIATION = _			рН	T	289			i		
											Resistivity (ohm-cm)	T-288	203		•	1		
ACC	CUMU	ATIVE	= WFI	GHTS I	RETAIN	NFD	% RFT	% PASS	SPECS		Soluble Salts (PPM)	ARIZ 237				1		
#8	JOIVIO		1111	1	1741	Ī	70 11211	7017100	0, 200.		` ′					∟ ٦ ـ		
#10						Ī					Unit Weight	T-1				PCI	-	
#16						Ī					Voids	T-1				%		
#30											Organic Impurities	T-2				-		
#40						ļ _					Clay Lumps	T-1	12		+	%		
#50											Chloride Content (PPM)	T-291				-		
ŧ100				_		<u> </u>	<b> </b>	1			Sulfate Content (PPM)	T-290			-	-		
200				1		<u> </u>			1	7	Exchangeable Sodium (%)	ARIZ 729			+	-		
#200				_		<u> </u>	Dry			]	Exchangeable Sodium (PPM)  Calcium Carbonate (%)	ARIZ 729			+	-		
Total				1		ļ .	Dry Weight				. ,	ARIZ 732			+	J		
lutri- ation						1	J					LATIVE % RET	:					
	R	ECEIV	/ED D	ATE		_		TEST	OPERATO	OR & DATE		SUPERVISOR						

	Sı	pecific Gravity ar	ıd Absor	rption of	Fine Aa	areaate	(T-84)				TEST OPERATOR & DATE PERFORMED					
Bulk Sp. Gr.		C ( ) +								Coarse Sieve						
(O.D. basis)	B + S -	C ( ) +	) + ( ) - ( )								Fine Sieve					
where:	A = mass of	f oven-dry sample	in air, g.								P.I					
		f pycnometer filled	d with water, g.							Abrasion						
		f saturated-surface	sample and water to calibration mark, g. e-dry sample, g.							Fine Sp. Gr.						
Dulle Co. Co.	_ 0	_								Course Sp. Gr						
Bulk Sp. Gr. (SSD basis)	= <u>S</u> B + S -	C ( ) +	<u>( )</u> =						Proctor							
,		,							Sand Equiv.							
Apparent Sp. Gr.	= <u>Α</u> Β + Δ -	<u> </u>	(	) - (		= _			_		Fractured Faces					
		, ,								Uncompacted Voids						
Absorption, percent	t = <u>S - A</u>	x 100 = (	) – (		x 100	o = _			%		Moisture					
			`	,							Flakiness Index					
5 " 6 6		ecific Gravity and		tion of C							Carbonates					
Bulk Sp. Gr. (O.D. basis)	= <u>A</u> =	( )-(	,							pH						
(0.5. 5000)	Ь	( ) (								Resistivity						
where: A = mass of oven-dry sample in air, g. B = mass of saturated-surface-dry sample in air, g.											Soluble Salts					
	C = mass or	f saturated sample	in wate	npie in aii r, g.	ı, y.						Unit Weight/Voids					
Dulle Co. Co.	_ D _	/	•							Org. Impurities						
Bulk Sp. Gr. (SSD basis)	= <u>B</u> =	( )-(	)			= _			_		Clay Lumps					
		, , ,	,								Chloride Content					
Apparent Sp. Gr	= <u>A</u> =	( )-(				= _			_		Sulfate Content					
			-								Exchangeable Sodium					
Absorption, percent	t = <u>B - A</u>	x 100 = (	) – (	)	x 100	) = _			%		Calcium Carbonates					
	A		(	)							Fractured Particles					
		Flai	kiness Ir	ndex (Ar	iz 233)						(T-335)					
Sieve Size			1–1/2"	1"	3/4"	1/2"	3/8"	1/4"	#4	#8	At least one Fractured Face: Wt. of Fract. Particles (F) =					
% Pass from Sieve Ar											Wt. of Non-Fract. particles (N) =					
% Ret. From Sieve Ar											Wt. of Questionable particles (Q) =					
Weight of Test Sample	e										( 5. 2 )					
Weight Passing Slot											$P = \left(\frac{F + \frac{Q}{2}}{F + Q + N}\right) \times 100$					
*Percent Passing Slot NOTE: Only the size fract		0									$\binom{F+Q+N}{}$					
retained are tested for pas	ssing the appropri	ate slot, and used to								At least two Fractured Faces:						
determine the Flakiness I	ndex by the equat	ion below.	*Percent Passing Slot (P) = Weight Passing Slot x 100							Wt. of Fract. Particles (F) =  Wt. of Non-Fract. particles (N) =						
			Weight of Test Sample							Wt. of Nori-Fract. particles (N) =  Wt. of Questionable particles (Q) =						
									Fractured Particles =(%							
FLAKINESS INDEX				P(No. 8)]												
ELAKINEGO INDEV		–1/2") +···+ F(No. 8								_	0/					
FLANINESS INDEX											%					
Moisture Content (7	T-255 T-265)	= Wet Weight - D	ry Weigh	nt x 100 =	:(	) – (	)	x 100 =		(	%					
moistare content (	1 200, 1 200,	Dry Wei		<u> </u>			)	X 100			,,					
SAND EQUIVA	ALENT	ABR	ASION			UNCO	MPACTED	VOIDS			PLASTICITY INDEX					
(AASHTO T	-176)	(AASI	HTO T-96)	)		(T-3	304 A, B, o	r C)		LIQUID LIMI	(AASHTO T-89 & T-90)					
		% Abrasion =	<u>A - B</u>	x 100							BOTTLE					
SAND READING			Α				ASURE &			BOTTLE#_ % MOISTUR	TARE WT # BLOWS					
CLAY READING		Where: A = Original Mass	(5000 ± 10	0 grams)			g 2		.9	RE =						
SAND EQUIV.		B = Plus #12 Mate				SS OF ME			а	. <u>WITH BOTTLE</u> ) – <u>(DRY WT. WITH BOTTLE)</u> × 100 . WITH BOTTLE) – (TARE WT. OF BOTTLE)						
SAND READING		100 REV:				1g 2g  MASS OF AGGREGATE = (					)-( ) x 100 = %					
CLAY READING		100 REV:			1g 2g					)-( ) x 100 =%						
SAND EQUIV.		x	x 100 =%							MIT = (FOR 25 BLOWS)						
SAND READING										PLASTIC LIN						
CLAY READING		500 REV:	FINE	FINE O.D. SPECIFIC GRAVITY					BOTTLE							
SAND EQUIV.			I						TARE WT							
		x	x 100 =%				MEASURE			IMIT: =						
					cm³						<u>MITH BOTTLE) – (DRY WT. WITH BOTTLE)</u> x 100 <u>MITH BOTTLE) – (TARE WT. OF BOTTLE)</u>					
AVEDAGE 04112 5511	107 -	TVDE 05 ::	ON.		UV =	UV = = (					)-( ) x 100 =%					
AVERAGE SAND EQU	лv. =	TYPE OF ABRASI	ON: = (						- (	)-( ) x 100 =%						
				UV =	PLASTICITY					'INDEX (PI):						
44-935 R10/25 (BACK)					I		_ <b>_</b>			PI = LL - PL	= ( ) – ( ) =					