CONSOLIDATION TEST

				(Specime				
Date								
Proje	ct							
Borir	ng No.				Sample No			
Class	ification							
				Before Test			After Test	
			Specimen		Trimmings		Specimen	
Tare No.				Ring and Plates				
Weight in grams	Tare plus wet soil							
	Tare plus dry soil							
	Water	W W	W wo			W wf		
	Tare							
	Dry Soil	W S						
	Water content	w	w o			w f		
Consolidometor No.					Area of specimen, A, sq cm			
Weight of ring, g					Height of specimen, H, in.			
Weight of plates, g					Sp gr of solids, G s			
Heig	ht of solids, $H = W_s$	i	=		=		in.	
Height of solids, $H_s = \frac{W_s}{A \times G_s \times \gamma_w}$ Original height of water, $H_{wo} = \frac{W_s}{A \times G_s \times \gamma_w}$				Х	X 1 X 2.54			
Final height of water, H $_{wo} = \frac{W}{A \times W}$				= v	X 1 X 2.54	=	i n .	
				$\frac{wf}{v_{u}} = \frac{x 1 x 2.54}{x 1 x 2.54}$		=	i n .	
			w					
Net change in height of specimen at end of test, $\Delta H = H$ Height of specimen at end of test, $H_f = H - \Delta H = I$ in.								
		•					in.	
Void	ratio before test, $e_0 = $	H - I	1 s	=		=	:	
Void	ratio after test, e = -	H _f - ⊢	s I s	=		=		
	† —	Hs						
Degr	ee of saturation before test,	S =	- <u> </u>	H wo =			=	
				S				
Degr	ee of saturation after test, S	f =	_	H _{wf} =			=	
				' f - ''s				
Dry density before test, γ d = $\frac{W}{H X}$				=	X 62.4 X X 2.54	_=	lb/cu ft	
		11 /	^					
Rem	arks							
Tech	nician			Computed by	Checked by			