



Maximum Density Curve Work Sheet

Transmittal Ltr. No. _____	Lab. No. _____
Project No. _____	
Computed By _____	Date _____
Checked By _____	Date _____
Type of Mat'l. _____	

	<u>Fine Density</u>	<u>3/4" Max. Coarse Density</u>		<u>2 1/2" Max. Coarse Density</u>
Max. size	_____	_____	Mold and material wt.	_____
Wt. of batch	_____	_____	Mold tar wt.	_____
H ₂ O added	_____	_____	Wt. of material	_____
% H ₂ O added	_____	_____	Final density reading (Z)	_____
Exud. Press.	_____	_____	Ring const. (Y)	_____
Comp. Run	_____	_____	Sum (Z + Y)	_____
Ht. Reading 1	_____	_____	Initial reading (X)	_____
2	_____	_____	Density vol. (Z + Y = X)	_____
3	_____	_____	Mold vol.	_____
Sum	_____	_____	Density Vol.	_____
Avg. hts.	_____	_____	Dry density (A)	_____
Ht. corr. const.	_____	_____	Dry Density = $\frac{\text{Mat'l wt.}}{\text{Volume}}$	
Corr. Ht.	_____	_____		
Mold vol. const.	_____	_____		
Wet wt. and tare	_____	_____		
Dry wt. and tar	_____	_____		
Wt. moisture	_____	_____		
Tare wt.	_____	_____		
Dry wt.	_____	_____		
Dry density	_____	_____		
(Max. B) % Moist = $\frac{\text{Wt. moist.}}{\text{Dry wt.}} \times 100 =$				
Dry Density = $\frac{\text{Dry Wt.} \times \text{Mold Vol. Const.}}{\text{Avg. Height}}$				

<u>Specific Gravity</u>		
	<u>Fines</u>	<u>Course</u>
(a) Wt. Dry Mat.	_____	_____
(b) Wt. pyc. - H ₂ O	_____	_____
(a + b)	_____	_____
(c) Wt. pyc. + H ₂ O mat.	_____	_____
(a + b - c)	_____	_____
Sp. Gr. $\frac{a}{(a + b - c)}$	_____	_____

Date to Computer

Ct _____ Contract No.
 A _____ Coarse Density
 B _____ Fine Density
 C _____ Coarse Sp. Gr.
 D _____ Fine Sp. Gr.

Data Summary

For Preparation of Curve

<u>% Passing No. 4</u>	<u>Density</u>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

% Passing No. 4 Sieve _____