

# MAXIMUM DENSITY WORKSHEET

North Dakota Department of Transportation, Construction  
SFN 50289 (5-2019)

					Project Number		PCN
Contractor						Date	Time
Test Number	Lot Number	Daily Tons	Total Tons	Station	Lane	Lift	

## FIELD PLUGS

Plug Number	(A) Weight in Air	(B) Weight in Water	(C) Weight Sat. Surf	(D) Volume (C - B)	(E) Bulk Sp. Gr. (A / D)
Average Bulk Sp. Gr. (F)					
Density (F x 62.4) PCF					

## MAXIMUM THEORETICAL DENSITY

<b>Flask Number</b>			
(G) Sample, Container & Water			Avg Max SPG
(H) Container & Water			
(I) Sample in Water (G - H)			
(J) Sample in Air			
(K) Volume of Void-less Mix (J - I)			
(L) Meas. Max. Spec Gravity (J / K)			
(M) Max. Theor. Density (62.4 x L)			
Percent Air Voids			
$\% \text{ Air Voids} = (L - F) / L \times 100 = ( \quad - \quad ) / \quad \times 100 = \quad \% \text{ Air Voids}$			

<b>Aggregate Blend Proportions</b> <table border="1" style="display: inline-table; margin-right: 20px;"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table> <table border="1" style="display: inline-table;"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>																	AC Content	
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Tester's Signature		Tech ID																