MOISTURE-DENSITY RELATIONSHIP TESTS

North Dakota Department of Transportation, Materials & Research Division
SFN 10063 (Rev. 01-2009)

Project Number	PCN	Station	Depth Below Grade
Offset From Centerline		Type of Soil	
AASHTO Designation	Date	Test Number	

Density

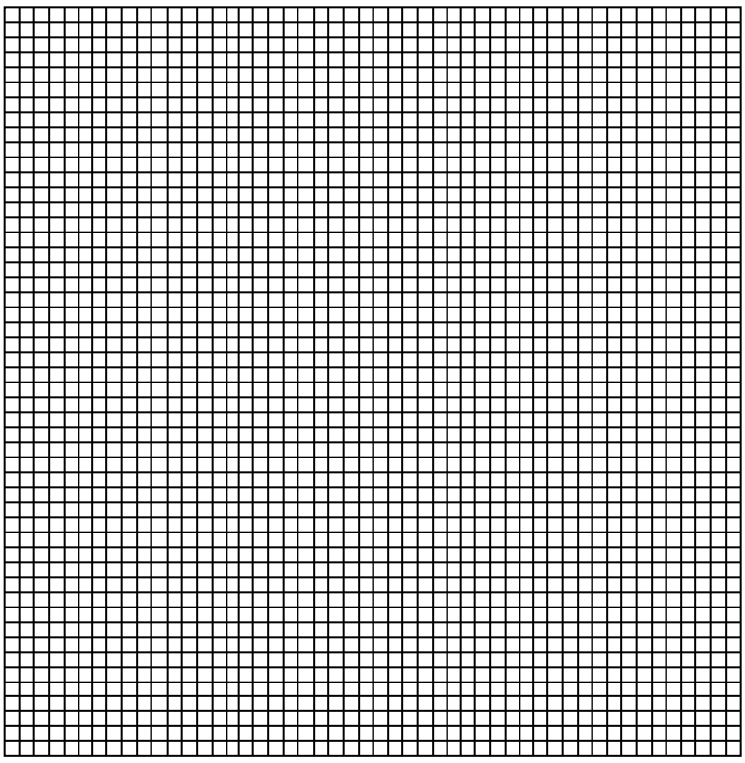
Determination No.		1	2	3	4	5
A. Volume of Mold	cu. ft.					
B. Weight of Mold + compacted soil	lbs.					
C. Weight of Mold	lbs.					
D. Weight of Compacted Soil = B - C	lbs.					
E. Wet density = D/A	lbs./cu. ft.					
F. Dry density = $\frac{E \times 100}{100 + L}$	lbs./cu. ft.					

AASHTO T99 or T180 Tested by _____

Moisture Content

Container No.						
G. Wet Weight + Container	gms.					
H. Dry Weight + Container	gms.					
I. Moisture Loss = G - H	gms.					
J. Weight of Container	gms.					
K. Dry Weight of Soil = H - J	gms.					
L. % Moisture (I/K) x 100						

ASTM D4643 AASHTO T217, or T-265 Tested by _____



Max. Dry Density	lbs./cu. ft.
Optimum Moisture	%

Remarks: