STATE OF NEVADA DEPARTMENT OF TRANSPORTATION MOISTURE-DENSITY DETERMINATION, COMPACTION REPORT - PART 1

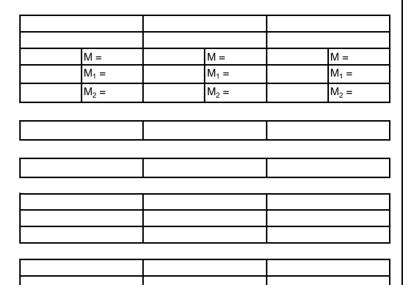
Date	Test Hole No. (code) Station Distance to Centerline Embankment Depth Type of Material Compaction Equipment					
	Sand Vol	ume Data Ne	ev. T102			
Initial Wt. of Sand Wt. of Residue	kg (lbs) kg (lbs)					
3. Wt. of Sand Used, 1 - 2	kg (lbs)					
4. Sand Density	Mg/m³ (lb/ft³)					
5. Vol. Hole + Cone + Plate, 3 / 4						
6. Vol. of Cone + Plate	m ³ x 1000 (ft ³)					
7. Vol. of Hole, 5 - 6	m ³ x 1000 (ft ³)					
	Excavate	d Sample Ne	ev. T102			
8. Total Excavated Wet Wt.	kg (lbs)					
9. Wet Wt.	grams					
10. Dry Wt.	grams					
11. Wt. of Water, 9 - 10	grams					
12. % Moisture, (11 / 10)100	May/res 3 / Uh /643\					
13. Field Wet Density, 8 / 7	Mg/m³ (lb/ft³)					
11 Field Dry Dencity						
14. Field Dry Density, [13 / (100 + % Moisture)]10			<u> </u>		<u> </u>	
[13 / (100 + % Moisture)]10 Total Sample Wt.			y Determinati % retained on +		B % retaine	ed on +No.4
[13 / (100 + % Moisture)]10 Total Sample Wt. Wt. of + 3/4"	0	9	-	3/4",		
Total Sample Wt Wt. of + 3/4" Wt. of + No. 4	O Data for Calculated Max	9	% retained on +	3/4",	% retaine	
[13 / (100 + % Moisture)]10 Total Sample Wt. Wt. of + 3/4" Wt. of + No. 4 16. Wt. of Mold + Compacted Soil	Data for Calculated Max	º (Method S	% retained on + Selected)	3/4", Method " <i>A</i>	% retaine A" □ Meth	od "D" 🗆
[13 / (100 + % Moisture)]10 Total Sample Wt. Wt. of + 3/4" Wt. of + No. 4 16. Wt. of Mold + Compacted Soil	Data for Calculated Maxingrams grams grams	º (Method S	% retained on + Selected)	3/4", Method " <i>A</i>	% retaine A" □ Meth	od "D" 🗆
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[13 / (100 + % Moisture)]10 Total Sample Wt. Wt. of + 3/4" Wt. of + No. 4 16. Wt. of Mold + Compacted Soil 17. Wt. of Mold 18. Wt. of Compacted Soil, 16 - 1 19. Wet Density, (Line 18 / 453.59) x Factor	Data for Calculated Maxing grams grams grams (Ib/ft³) (Ib/ft³) (Ib/ft³) * (1 / Volume) () use 30.03	(Method S	% retained on + Selected)	3/4", Method "A Point 3	% retaine A" ☐ Meth Point 4 Soil / 453.59) x F	Point 5 Poactor
[13 / (100 + % Moisture)]10 Total Sample Wt. Wt. of + 3/4" Wt. of + No. 4 16. Wt. of Mold + Compacted Soil 17. Wt. of Mold 18. Wt. of Compacted Soil, 16 - 1' 19. Wet Density, (Line 18 / 453.59) x Factor 20. Dry Density, (Line 19 / (100 + % Moist.))10 Note: Mold Volume Factor, F = For Method "A" (4" Mold For Method "D" (6" Mold	Data for Calculated Maxing grams grams grams (Ib/ft³) (Ib/ft³) (Ib/ft³) * (1 / Volume) () use 30.03	Point 1 Wet Dry	Point 2 Density = (Wt. 4) Density = (Wet. 4)	Method "A Point 3 of Compacted S Density / (100 +	% retaine A" □ Meth Point 4 Soil / 453.59) x F Moisture)) x	Point 5 Poactor
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STATE OF NEVADA DEPARTMENT OF TRANSPORTATION MOISTURE-DENSITY DETERMINATION, COMPACTION REPORT - PART 2

Oversized Aggregate Correction, Nev. T104

Apply to **Method "A"** if aggregate particles exceed 5% by mass retained on the 4.75 mm (No. 4) sieve Apply to **Method "D"** if aggregate particles exceed 5% by mass retained on the 19.0 mm (3/4 in.) sieve

- 25. Wt. of Aggregate = A
- 26. Wt. of Pycnometer = p
- 27. (Wt. of Pyc. + Water) p = M
- 28. (Wt. of Pyc. + Water + Aggregate) $(p + A) = M_1$
- 29. Wt. of Water Recovered from Pyc. = M₂
- 30. If M_1 M_2 ≤ 14 g,
 - $G = [A / (M M_1)] \times 62.4$
- 31. If $M_1 M_2 > 14 g$,
 - $G = [A / (M M_1) + 0.5 (M_1 M_2 14 g)] \times 62.4$
- 32. Decimal Equiv. of % + No.4 or + 3/4", (1 P)
- 33. Decimal Equiv. of % No. 4 or 3/4", P
- 34. Maximum Dry Density = d
- 35. Corrected Max. Dry Density
 - D = dG / [(d)(1-P) + (G)(P)] (lb/ft³)
- 36. % Compaction = (14 / 35)100



Density Mg/m³ (lb/ft³)

(lb/ft3)

% Moisture

As Plotted

Max. Dry Density (d)	Mg/m³ (lb/ft³)
Optimum Moisture	%

Corrected Max. Density and Opt. Moisture Utilizing the Coarse Aggregate Correction

Max. Dry Density (D)	Mg/m³ (lb/ft³)
Optimum Moisture	%

Corrected Optimum Moisture Calculation:

[(1-P) x 2] + [P x "As Plotted" Opt. Moisture]

Note: For Metric, $lb/ft^3 / 62.4 = Mg/m^3$

Determine Decimal Equiv. of $\% \pm \text{No.4}$ or $\pm 3/4$ " (Round to nearest 0.001)

- 37. Sieve Test No.
- 38. Total Sample Wt.
- 39. Wt. of + No.4 or + 3/4"
- 40. Dec. Equiv. (1-P), 39 / 38
- 41. Wt. of No.4 or 3/4"
- 42. Dec. Equiv. (P), 41 / 38

REMARKS:			
TESTED B'	/ :	RESIDENT ENGINEER:	

NDOT 040-069 Rev. 02/13

Distribution: Headquarters Construction, District, Resident Engineer, Contractor