



Table 2.—Soil classification															
General classification	Granular materials (35 percent or less passing a No. 200 sieve)					Silt-clay materials (more than 35 percent passing a No. 200 sieve)									
	A-1	a	b	A-3	4	5	6	7	A-4	A-5	A-6	5	6	A-7	A-8
Group classification					4	5	6	7							
Sieve analysis:					50 max.	50 max.	50 max.	51 min.							
Percent passing:					No. 10 sieve	No. 40 sieve	No. 60 sieve								
No. 10 sieve					50 max.	50 max.	50 max.	51 min.							
No. 40 sieve					50 max.	50 max.	50 max.	51 min.							
No. 60 sieve					50 max.	50 max.	50 max.	51 min.							
Characteristics of fraction passing:									35 max.	35 max.	35 max.	35 max.	36 min.	36 min.	36 min.
Liquid limit									40 max.	40 max.	40 max.	40 max.	41 min.	41 min.	42-400
Plasticity index									40 max.	40 max.	40 max.	40 max.	41 min.	41 min.	40-60
Group index					6 max.	6 max.	Nonplastic	10 max.	10 max.	10 max.	10 max.	11 min.	11 min.	11 min.	11 min.
General subgrade rating					0	0	0	0	4 max.	4 max.	8 max.	12 max.	16 max.	20 max.	
Material	Well-graded gravel	Clean sand and gravel	Poorly graded, silty or clayey sand	Silty soils	Plastic silts	Plastic clays	Expansive plastic	Muck-peat							

<sup>1</sup>Plasticity index of A-1-5 subgroup is equal to or less than the liquid limit minus 30. Plasticity index of A-7-6 subgroup is greater than the liquid limit minus 30.

Sample pit number	Depth of interval (inches)	Soil horizon	Mechanical analyses			Plasticity index <sup>2</sup>	Moisture-density <sup>3</sup>	Classification	H. R. B. <sup>4</sup>	Unified <sup>5</sup>
			Cumulative percent passing sieve sizes	Percent by weight	Liquid limit <sup>6</sup>					
1.....	0-10	A	100 100 100 100 100 100 100 100 100 100 100	99.9 99.9 99.9 99.9 99.9 99.9 99.9 99.9 99.9 99.9 99.9	69 12 33 NP 55.3*	16	A-4 (0) ML			
	20-30	A	100 100 100 100 100 100 100 100 100 100 100	99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8	22 22 NP	16	A-4 (0) ML			
	30-40	B	100 100 100 100 100 100 100 100 100 100 100	98.3 98.3 98.3 98.3 98.3 98.3 98.3 98.3 98.3 98.3 98.3	48.2 26.8 25.5 10.7	14	A-4 (0) CL	AM24		
	40-50	C	100 100 100 100 100 100 100 100 100 100 100	99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8	72 15 23 NP	14	A-4 (0) CL	AM4		
	50-60	C	100 100 100 100 100 100 100 100 100 100 100	99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8	72 15 23 NP	14	A-4 (0) CL	AM4		
	60-70	C	100 100 100 100 100 100 100 100 100 100 100	99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8	72 15 23 NP	14	A-4 (0) CL	AM4		
	70-80	C	100 100 100 100 100 100 100 100 100 100 100	99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8	72 15 23 NP	14	A-4 (0) CL	AM4		
	80-90	C	100 100 100 100 100 100 100 100 100 100 100	99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8	72 15 23 NP	14	A-4 (0) CL	AM4		
	90-100	C	100 100 100 100 100 100 100 100 100 100 100	99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8	72 15 23 NP	14	A-4 (0) CL	AM4		
	100-110	C	100 100 100 100 100 100 100 100 100 100 100	99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8	72 15 23 NP	14	A-4 (0) CL	AM4		
	110-120	C	100 100 100 100 100 100 100 100 100 100 100	99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8	72 15 23 NP	14	A-4 (0) CL	AM4		
	120-130	C	100 100 100 100 100 100 100 100 100 100 100	99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8	72 15 23 NP	14	A-4 (0) CL	AM4		
	130-140	C	100 100 100 100 100 100 100 100 100 100 100	99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8	72 15 23 NP	14	A-4 (0) CL	AM4		
	140-150	C	100 100 100 100 100 100 100 100 100 100 100	99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8	72 15 23 NP	14	A-4 (0) CL	AM4		
	150-160	C	100 100 100 100 100 100 100 100 100 100 100	99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8	72 15 23 NP	14	A-4 (0) CL	AM4		
	160-170	C	100 100 100 100 100 100 100 100 100 100 100	99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8	72 15 23 NP	14	A-4 (0) CL	AM4		
	170-180	C	100 100 100 100 100 100 100 100 100 100 100	99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8	72 15 23 NP	14	A-4 (0) CL	AM4		
	180-190	C	100 100 100 100 100 100 100 100 100 100 100	99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8	72 15 23 NP	14	A-4 (0) CL	AM4		
	190-200	C	100 100 100 100 100 100 100 100 100 100 100	99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8	72 15 23 NP	14	A-4 (0) CL	AM4		
	200-210	C	100 100 100 100 100 100 100 100 100 100 100	99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8	72 15 23 NP	14	A-4 (0) CL	AM4		
	210-220	C	100 100 100 100 100 100 100 100 100 100 100	99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8	72 15 23 NP	14	A-4 (0) CL	AM4		
	220-230	C	100 100 100 100 100 100 100 100 100 100 100	99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8	72 15 23 NP	14	A-4 (0) CL	AM4		
	230-240	C	100 100 100 100 100 100 100 100 100 100 100	99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8	72 15 23 NP	14	A-4 (0) CL	AM4		
	240-250	C	100 100 100 100 100 100 100 100 100 100 100	99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8	72 15 23 NP	14	A-4 (0) CL	AM4		
	250-260	C	100 100 100 100 100 100 100 100 100 100 100	99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8	72 15 23 NP	14	A-4 (0) CL	AM4		