

SYMBOLS	MSMT CLASSIFICATION	AASHTO CLASSIFICATION	TYPICAL GRADING	TYPICAL PHYSICALS	REMARKS FOR MSMT CLASSIFICATION
	A-3 SAND	A-1-a, A-1-b, A-3	C.S. =22% F.S. =48% SILT =20% CLAY =8% COLL.=2%	L.L. = N.P. P.I. = N.P.	SAND-53% MIN. %-#200-20% MAX. P.I.-N.P. L.L.-MUST BE N.P.
	A-2 SAND & FINES	A-1-a, A-1-b	C.S. =20% F.S. =43% SILT =19% CLAY =10% COLL.=8%	L.L. = 22 P.I. = 2	SAND-53% MIN. %-#200-20% MAX. P.I.-7 MAX. L.L.-34 MAX. (MUST HAVE L.L.)
	A-2-4 SILTY SAND	A-1-a, A-1-b	C.S. =25% F.S. =30% SILT =32% CLAY =7% COLL.=6%	L.L. = 24 P.I. = 2	SAND-53% MIN. %-#200-21% MIN.-30% MAX. P.I.-7 MAX. L.L.-34 MAX. (MAY BE N.P.)
	A-4-2 SANDY SILT	A-2-4	C.S. =23% F.S. =28% SILT =33% CLAY =10% COLL.=6%	L.L. = 25 P.I. = 3	SAND-48% MIN. %-#200-31% MIN. P.I.-7 MAX. L.L.-40 MAX. (MAY BE N.P.)
	A-2-7 CLAYEY SAND	A-2-5, A-2-6	C.S. =38% F.S. =31% SILT =15% CLAY =8% COLL.=8%	L.L. = 31 P.I. = 10	SAND-48% MIN. CLAY-29% MAX. P.I.-8-14 L.L.-40 MAX.
	A-7-2 SANDY CLAY	A-2-7	C.S. =20% F.S. =29% SILT =17% CLAY =21% COLL.=13%	L.L. = 39 P.I. = 17	SAND-48% MIN. CLAY-17%-35% P.I.-15 MIN. L.L.-30 MIN.
	A-4 SILT	A-4	C.S. =20% F.S. =22% SILT =40% CLAY =10% COLL.=8%	L.L. = 30 P.I. = 6	SAND-47% MAX. CLAY-29% MAX. P.I.-9 MAX. L.L.-40 MAX.
	A-4-7 CLAYEY SILT	A-6, A-7-5	C.S. =8% F.S. =17% SILT =40% CLAY =23% COLL.=12%	L.L. = 33 P.I. = 11	SAND-47% MAX. CLAY-25% MIN. P.I.-14 MAX. L.L.-40 MAX.
	A-7-4 SILTY CLAY	A-7-6	C.S. =18% F.S. =20% SILT =35% CLAY =12% COLL.=15%	L.L. = 39 P.I. = 15	SAND-47% MAX. CLAY-29% MAX. P.I.-15 MIN. L.L.-30 MIN.
	A-7 CLAY	A-7	C.S. =18% F.S. =22% SILT =23% CLAY =22% COLL.=15%	L.L. = 40 P.I. = 17	SAND-47% MAX. CLAY-30%-59% P.I.-15 MIN. L.L.-35 MIN.
	A-6 COLLOIDAL CLAY	A-7	C.S. =6% F.S. =7% SILT =18% CLAY =33% COLL.=36%	L.L. = 50 P.I. = 33	CLAY-60% MIN. P.I.-25 MIN. L.L.-45 MIN.
	A-5 MICA, DIATOMS, DECOMPOSED ROCK	A-5, A-6, A-7	C.S. =15% F.S. =35% SILT =30% CLAY =15% COLL.=5%	L.L. = 35 P.I. = 4	GRAD. NOT SIGNIFICANT P.I.-LOW L.L.-HIGH VISUAL INSPECTION NECESSARY TO DETERMINE TYPE
	A-8 SWAMP MUCK	A-8* (MI45)	C.S. =18% F.S. =26% SILT =45% CLAY =7% COLL.=4%	L.L. = 52 P.I. = 7	ORGANIC CONTENT-4% MIN. P.I.-LOW L.L.-HIGH, WHEN OBTAINABLE
	ROCK REFUSAL				

SPECIFICATION	CATEGORY CODE ITEMS
APPROVED	<i>Kirk G. McCall</i> DIRECTOR - OFFICE OF HIGHWAY DEVELOPMENT
	APPROVAL • SHA REVISIONS
	APPROVAL 6-11-68
	REVISED 3-01-07
	REVISED 3-25-10
	APPROVAL • FEDERAL HIGHWAY ADMINISTRATION
	APPROVAL 11-1-68
	REVISED 12-22-09
	REVISED

Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES

SOILS & SOIL-AGGREGATE MIXTURES
GUIDE TO CLASSIFICATIONS

STANDARD NO. MD 000.03