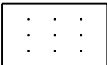
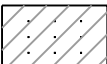
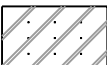
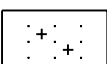
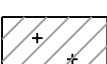
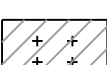
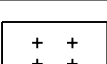
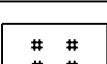
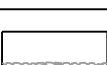


	SYMBOLS	TYPICAL GRADING	TYPICAL PHYSICALS	REMARKS
A-3 SAND		C.S. =22% F.S. =48% SILT =20% CLAY =8% COLL.=2%	L.L.#N.P. P.I.#N.P.	SAND-53% MIN. %-#200-20% MAX. P.I.-N.P. L.L.-MUST BE N.P.
A-2 SAND & FINES		C.S. =20% F.S. =43% SILT =19% CLAY =10% COLL.=8%	L.L.#22 P.I.#2 S.L.#18	SAND-53% MIN. %-#200-20% MAX. P.I.-7 MAX. L.L.-34 MAX. (MUST HAVE L.L.)
A-2-4 SILTY SAND		C.S. =25% F.S. =30% SILT =32% CLAY =7% COLL.=6%	L.L.#24 P.I.#2 S.L.#21	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		C.S. =23% F.S. =28% SILT =33% CLAY =10% COLL.=6%	L.L.#25 P.I.#3 S.L.#21	SAND-48% MIN. %-#200-31% MIN. P.I.-7 MAX. L.L.-40 MAX. (MAY BE N.P.)
A-2-7 CLAYEY SAND		C.S. =38% F.S. =31% SILT =15% CLAY =8% COLL.=8%	L.L.#31 P.I.#10 S.L.#18	SAND-48% MIN. CLAY-29% MAX. P.I.-8-14 L.L.-40 MAX.
A-7-2 SANDY CLAY		C.S. =20% F.S. =29% SILT =17% CLAY =21% COLL.=13%	L.L.#39 P.I.#17 S.L.#16	SAND-48% MIN. CLAY-17%-35% P.I.-15 MIN. L.L.-30 MIN.
A-4 SILT		C.S. =20% F.S. =22% SILT =40% CLAY =10% COLL.=8%	L.L.#30 P.I.#6 S.L.#19	SAND-47% MAX. CLAY-29% MAX. P.I.-9 MAX. L.L.-40 MAX.
A-4-7 CLAYEY SILT		C.S. =8% F.S. =17% SILT =40% CLAY =23% COLL.=12%	L.L.#33 P.I.#11 S.L.#18	SAND-47% MAX. CLAY-25% MIN. P.I.-14 MAX. L.L.-40 MAX.
A-7-4 SILTY CLAY		C.S. =18% F.S. =20% SILT =35% CLAY =12% COLL.=15%	L.L.#39 P.I.#15 S.L.#16	SAND-47% MAX. CLAY-29% MAX. P.I.-15 MIN. L.L.-30 MIN.
A-7 CLAY		C.S. =18% F.S. =22% SILT =23% CLAY =22% COLL.=15%	L.L.#40 P.I.#17 S.L.#15	SAND-47% MAX. CLAY-30%-59% P.I.-15 MIN. L.L.-35 MIN.
A-6 COLLOIDAL CLAY		C.S. =6% F.S. =7% SILT =18% CLAY =33% COLL.=36%	L.L.#50 P.I.#33 S.L.#14	CLAY-60% MIN. P.I.-25 MIN. L.L.-45 MIN.
A-5 MICA, DIATOMS, DECOMPOSED ROCK		C.S. =15% F.S. =35% SILT =30% CLAY =15% COLL.=5%	L.L.#35 P.I.#4 S.L.#26	GRAD. NOT SIGNIFICANT P.I.-LOW L.L.-HIGH S.L.-26 MIN. VISUAL INSPECTION NECESSARY TO DETERMINE TYPE
A-8 SWAMP MUCK		C.S. =18% F.S. =26% SILT =45% CLAY =7% COLL.=4%	L.L.#52 P.I.#7 S.L.#38	ORGANIC CONTENT-4% MIN. P.I.-LOW L.L.-HIGH, WHEN OBTAINABLE S.L.-26 MIN.
ROCK REFUSAL				

SPECIFICATION	CATEGORY CODE ITEMS										
APPROVED	<i>Karl G. McCall</i> DIRECTOR - OFFICE OF HIGHWAY DEVELOPMENT										
SHA State Highway Administration	<table> <tr> <td>APPROVAL • SHA REVISIONS</td><td>APPROVAL • FEDERAL HIGHWAY ADMINISTRATION</td></tr> <tr> <td>APPROVAL 6-11-68</td><td>APPROVAL 11-1-68</td></tr> <tr> <td>REVISED 10-1-01</td><td>REVISED</td></tr> <tr> <td>REVISED</td><td>REVISED</td></tr> <tr> <td>REVISED</td><td>REVISED</td></tr> </table>	APPROVAL • SHA REVISIONS	APPROVAL • FEDERAL HIGHWAY ADMINISTRATION	APPROVAL 6-11-68	APPROVAL 11-1-68	REVISED 10-1-01	REVISED	REVISED	REVISED	REVISED	REVISED
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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