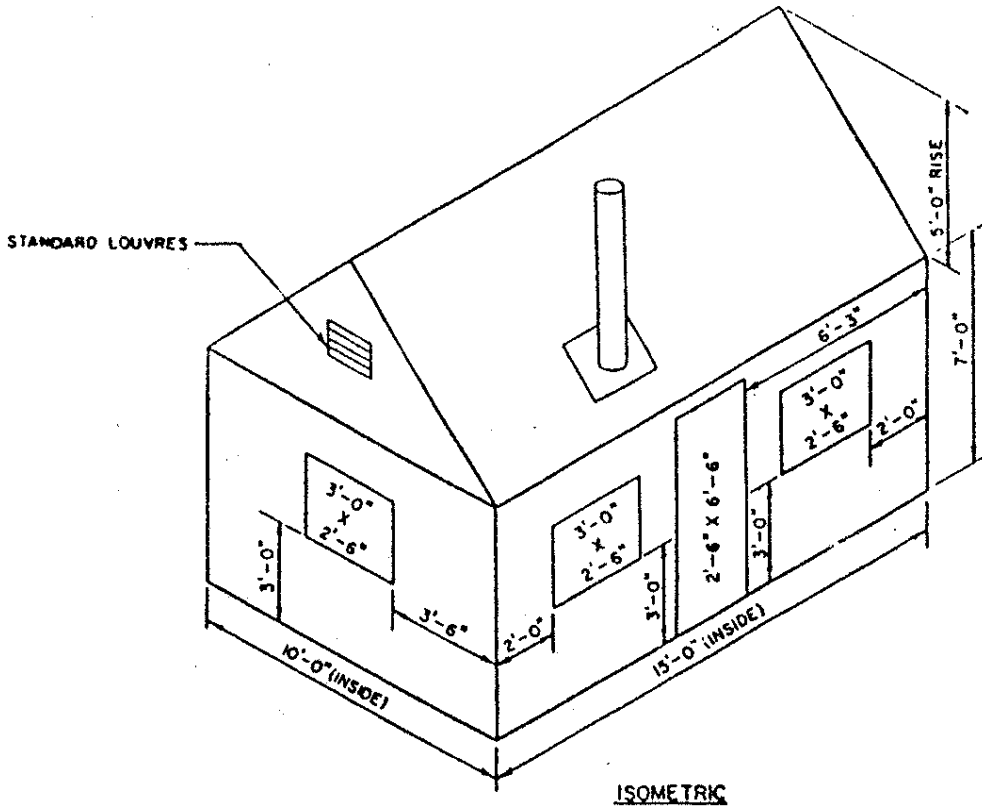


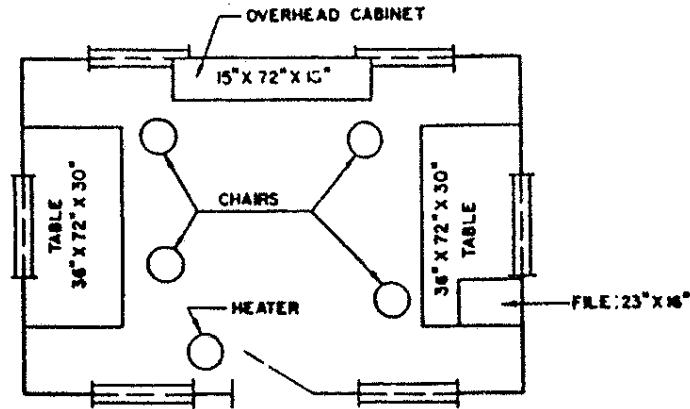
SECTION I
GENERAL

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G-5	Soils & Soil-Aggregate Mixtures Characteristics And Performance
G-6	Soils & Soil-Aggregate Mixtures Treatment & Use
G-7	Soils & Soil-Aggregate Mixtures Guide To Classification



ISOMETRIC



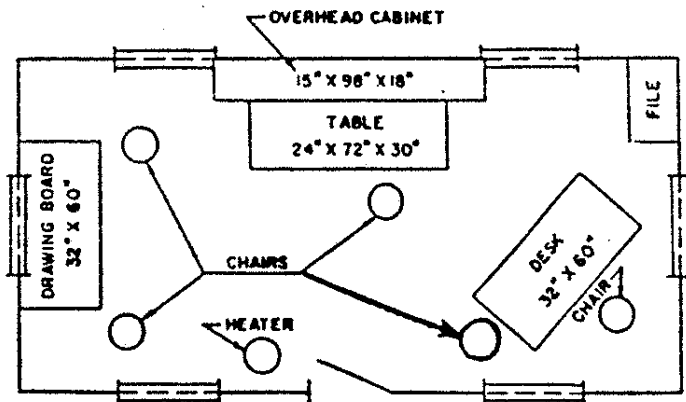
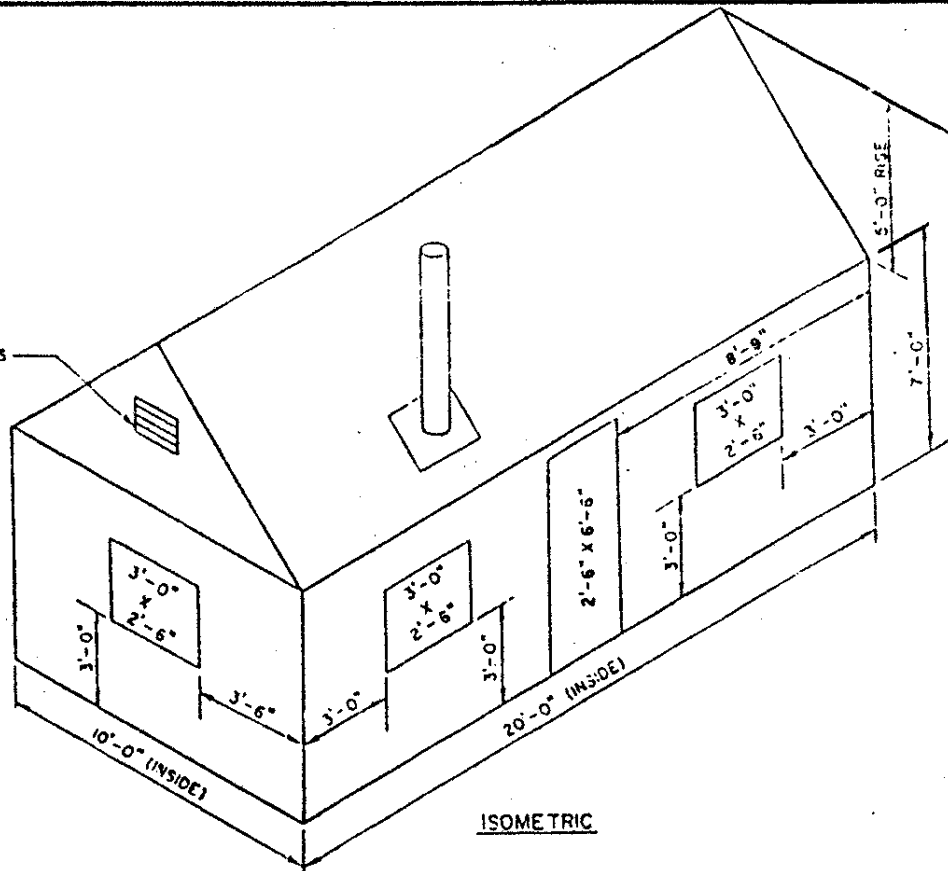
FLOOR PLAN

EXPLANATORY NOTES

1. IN ADDITION TO THE EQUIPMENT INDICATED ABOVE, AIR CONDITIONING WILL BE REQUIRED, THE COST OF WHICH IS TO BE INCLUDED WITHIN THE LUMP SUM BID PRICE OF THE OFFICE, THE SYSTEM MUST BE CAPABLE OF MAINTAINING A TEMPERATURE OF 80° F DRY BULB AND APPROXIMATELY 50% RELATIVE HUMIDITY IN THE CONDITIONED AREA, WHEN OUTSIDE TEMPERATURES ARE 95° F DRY BULB AND 78° F WET BULB.
2. FURNITURE & FIXTURES INDICATED ARE BASIC. ADDITIONAL EQUIPMENT REQUIRED AND NOT SHOWN IS SO SPECIFIED IN SECTION 01200.02 OF THE SPECIFICATIONS.
3. DIMENSIONS FOR THE LENGTH MAY BE VARIED SO THAT WHEN MULTIPLIED BY THE WIDTH A MINIMUM INSIDE AREA OF 150 SQ. FT. WILL RESULT. MINIMUM HEIGHT TO BE 7'0".
4. TOILET FACILITIES INTEGRAL TO THE STRUCTURE MAY BE CONNECTED TO AN APPROVED WATER SUPPLY AND TO A SEWER OR SEPTIC TANK SYSTEM, OR SEPARATE TOILET. TOILET FACILITIES MEETING THE REQUIREMENTS OF PARAGRAPH C.3 OF SECTION 01200.02 OF THE SPECIFICATIONS MAY BE PROVIDED.

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS	APPROVED <i>[Signature]</i> CHIEF ENGINEER <i>[Signature]</i> DESIGN ENGINEER 9/7/68	STANDARD GENERAL DETAILS ENGINEER'S OFFICE TYPE I	REVISED	G 1

STANDARD LOUVRES



FLOOR PLAN

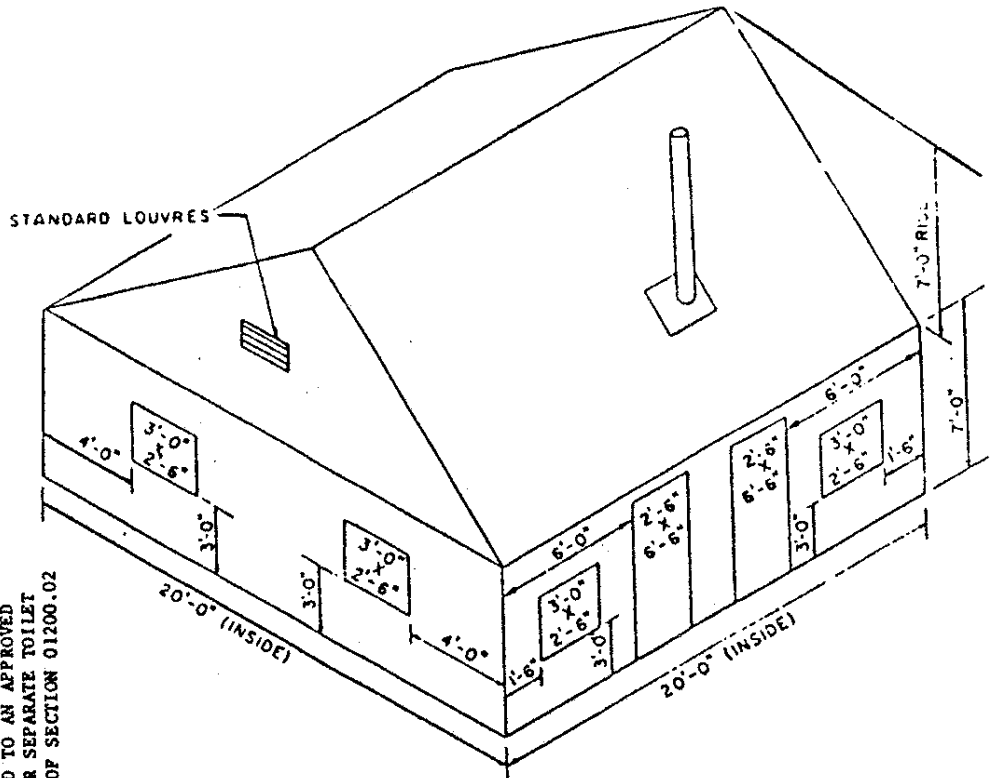
EXPLANATORY NOTES

1. IN ADDITION TO THE EQUIPMENT INDICATED ABOVE, AIR CONDITIONING WILL BE REQUIRED, THE COST OF WHICH IS TO BE INCLUDED WITHIN THE LUMP SUM BID PRICE OF THE OFFICE. THE SYSTEM MUST BE CAPABLE OF MAINTAINING A TEMPERATURE OF 80°F DRY BULB AND APPROXIMATELY 50% RELATIVE HUMIDITY IN THE CONDITIONED AREA, WHEN OUTSIDE TEMPERATURES ARE 95°F DRY BULB AND 78°F WET BULB AT LEAST ONE UNIT WILL BE REQUIRED FOR EACH OF THE TWO COMPARTMENTS.
2. FURNITURE & FIXTURES INDICATED ARE BASIC TO THE TRAILER. ADDITIONAL EQUIPMENT REQUIRED AND NOT SHOWN IS SO SPECIFIED IN SECTION 01200.02 OF THE SPECIFICATIONS.
3. DIMENSIONS FOR THE LENGTH MAY BE VARIED SO THAT WHEN MULTIPLIED BY THE WIDTH A MINIMUM INSIDE AREA OF 200 SQ. FT. WILL RESULT. MINIMUM HEIGHT TO BE 7'-0".
4. TOILET FACILITIES INTEGRAL TO THE STRUCTURE CONNECTED TO AN APPROVED WATER SUPPLY AND TO A SEWER OR SEPTIC TANK SYSTEM, OR SEPARATE TOILET FACILITIES MEETING THE REQUIREMENTS OF PARAGRAPH C3 OF SECTION 01200.02 OF THE SPECIFICATIONS MAY BE PROVIDED.

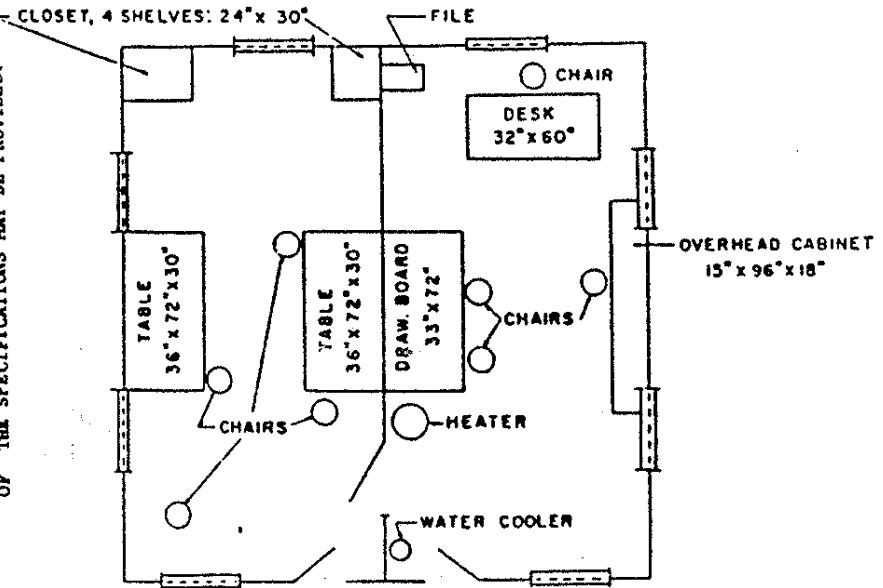
ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS	APPROVED <i>[Signature]</i> CHIEF ENGINEER	STANDARD GENERAL DETAILS ENGINEER'S OFFICE TYPE 2	REVISED	G 2
	DESIGN ENGINEER <i>[Signature]</i> DATE 9/17/88		[Empty]	

EXPLANATORY NOTES

1. IN ADDITION TO THE EQUIPMENT INDICATED ABOVE, AIR CONDITIONING WILL BE REQUIRED, THE COST OF WHICH IS TO BE INCLUDED WITHIN THE LUMP SUM BID PRICE OF THE OFFICE. THE SYSTEM MUST BE CAPABLE OF MAINTAINING A TEMPERATURE OF 80°F DRY BULB AND APPROXIMATELY 50% RELATIVE HUMIDITY IN THE CONDITIONED AREA, WHEN OUTSIDE TEMPERATURES ARE 95°F DRY BULB AND 78°F WET BULB AT LEAST ONE UNIT WILL BE REQUIRED FOR EACH OF THE TWO COMPARTMENTS.
2. FURNITURE & FIXTURES INDICATED ARE BASIC TO THE TRAILER. ADDITIONAL EQUIPMENT REQUIRED AND NOT SHOWN IS SO SPECIFIED IN SECTION 01200.02 OF THE SPECIFICATIONS.
3. DIMENSIONS FOR THE LENGTH MAY BE VARIED SO THAT WHEN MULTIPLIED BY THE WIDTH A MINIMUM INSIDE AREA OF 400 SQ. FT. WILL RESULT. MINIMUM HEIGHT TO BE 7'-0".
4. TOILET FACILITIES INTEGRAL TO THE STRUCTURE CONNECTED TO AN APPROVED WATER SUPPLY AND TO A SEWER OR SEPTIC TANK SYSTEM, OR SEPARATE TOILET FACILITIES MEETING THE REQUIREMENTS OF PARAGRAPH C3 OF SECTION 01200.02 OF THE SPECIFICATIONS MAY BE PROVIDED.

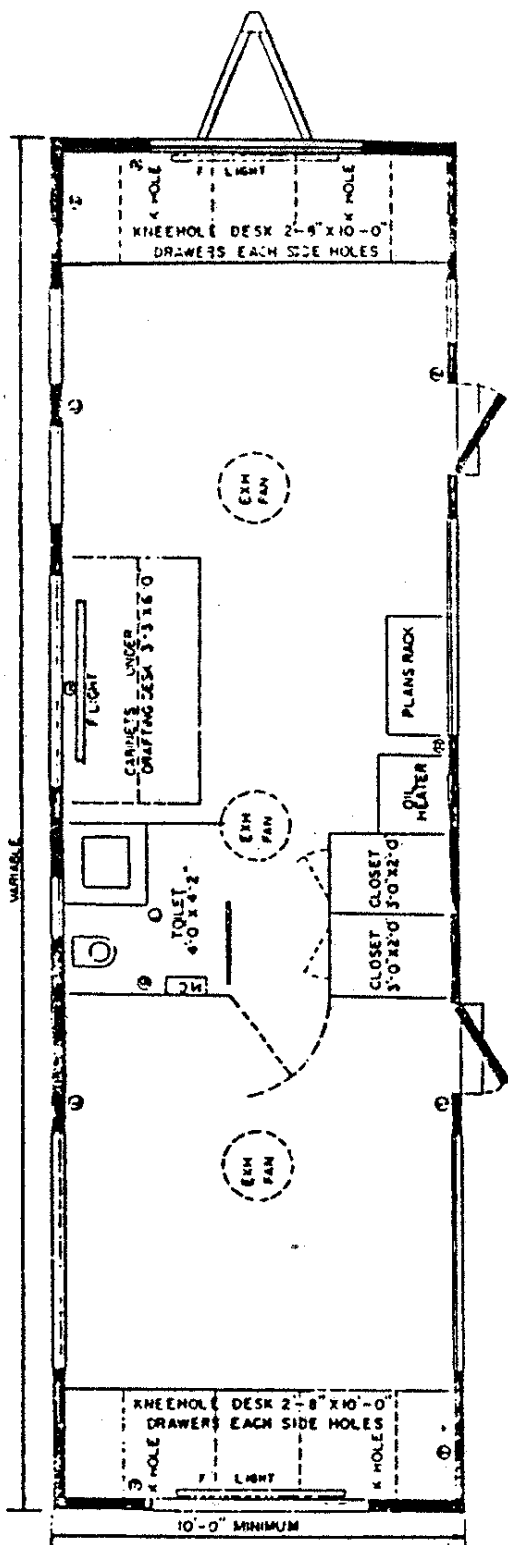


ISOMETRIC



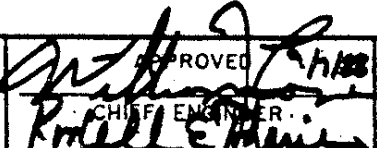
FLOOR PLAN

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS	APPROVED	STANDARD GENERAL DETAILS ENGINEER'S OFFICE TYPE 3	REVISED	G 3
	CHIEF ENGINEER			
	DESIGN ENGINEER			
	DATE 9/7/88			



EXPLANATORY NOTES

1. IN ADDITION TO THE EQUIPMENT INDICATED ABOVE, AIR CONDITIONING WILL BE REQUIRED, THE COST OF WHICH IS TO BE INCLUDED WITHIN THE LUMP SUM BID PRICE OF THE OFFICE. THE SYSTEM MUST BE CAPABLE OF MAINTAINING A TEMPERATURE OF 80°F DRY BULB AND APPROXIMATELY 50% RELATIVE HUMIDITY IN THE CONDITIONED AREA, WHEN OUTSIDE TEMPERATURES ARE 95°F DRY BULB AND 78°F WET BULB AT LEAST ONE UNIT WILL BE REQUIRED FOR EACH OF THE TWO COMPARTMENTS.
2. FURNITURE & FIXTURES INDICATED ARE BASIC TO THE TRAILER. ADDITIONAL EQUIPMENT REQUIRED AND NOT SHOWN IS SO SPECIFIED IN SECTION 01200.02 OF THE SPECIFICATIONS.
3. DIMENSIONS FOR THE LENGTH MAY BE VARIED SO THAT WHEN MULTIPLIED BY THE WIDTH A MINIMUM INSIDE AREA OF 400 SQ. FT. WILL RESULT. MINIMUM HEIGHT TO BE 7'-0".
4. TOILET FACILITIES AS INDICATED IN THE TRAILER MAY BE CONNECTED TO AN APPROVED WATER SUPPLY AND TO A SEMI OR SEPTIC TANK SYSTEM, OR SEPARATE TOILET FACILITIES MEETING THE REQUIREMENTS OF PARAGRAPH C3 OF SECTION 01200.02 OF THE SPECIFICATIONS MAY BE PROVIDED.

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS	APPROVED  CHIEF ENGINEER DESIGN ENGINEER 9/7/88 DATE	STANDARD GENERAL DETAILS ENGINEER'S OFFICE TYPE 3 TRAILER SUBSTITUTE	REVISED 	G 4
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GENERAL CLASSIFICATION GROUP CLASSIFICATION	BRANULAR MATERIALS				SILT-CLAY MATERIALS																
	2-2	4-3	2-3-4	4-4-2	2-2-7	2-2-7	2-2-7	2-2-7	2-2-7	2-2-7	2-2-7	2-2-7	2-2-7	2-2-7	2-2-7	2-2-7	2-2-7	2-2-7	2-2-7	2-2-7	
GENERAL DESCRIPTION	SAND	SAND	SILTY-SAND	SANDY-SILT	CLAYEY-SAND	SANDY CLAY	SILT	CLAYEY SILT	SILT CLAY	CLAY	COLLOIDAL CLAY	MICA, BIATIBBS SILT	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	
STABILITY	WHEN PLASTIC, GOOD WHEN DRY	IDEAL WHEN COMFINED DRY	GOOD WHEN DRY	GOOD WHEN DRY	GOOD WHEN PROPERLY COMPACTED	GOOD WHEN PROPERLY COMPACTED OR UNDISTURBED	POOR	POOR	POOR	POOR	POOR	POOR	GOOD TO POOR	POOR	POOR	POOR	POOR	POOR	POOR	POOR	MORE
USE AS A BASE	FAIR	EXCELL.	FAIR	FAIR	POOR	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY
USE AS A SUB-BASE	EXCELL.	EXCELL.	FAIR	FAIR	FAIR	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY
USE AS A SUB-GRADE	EXCELL.	EXCELL.	FAIR	FAIR	FAIR	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY
FILLS UNDER 30'	EXCELL.	EXCELL.	GOOD	GOOD	FAIR	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY
FILLS OVER 30'	GOOD	FAIR	FAIR	FAIR	FAIR	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY
FROST ACTION	POOR TO NONE	POOR TO LOW	FAIR	FAIR	FAIR	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY
RANGE OF MAX DRY DENSITY (AASHTO T-150) (pcf)	118-135	109-130	110-130	110-130	112-138	118-130	110-135	110-135	105-130	100-120	90-115	100-135	100-135	100-135	100-135	100-135	100-135	100-135	100-135	100-135	100-135
RANGE OF OPTIMUM MOISTURE CONTENTS (AASHTO T-150) (%)	9-12	8-15	8-15	8-15	8-12	9-15	9-15	9-15	10-17	12-28	14-30	11-18	11-18	11-18	11-18	11-18	11-18	11-18	11-18	11-18	11-18
REQUIRED COMPACTION (AASHTO T-150) (%)	93-96	92-96	92-96	92-96	92-96	92-96	92-96	92-96	92-96	92-96	92-96	92-96	92-96	92-96	92-96	92-96	92-96	92-96	92-96	92-96	92-96
COMPACTION METHODS	ROLLING WITH SMOOTH FACE TAMPING, RUBBER-TIRED ROLLER OR VIBRATORY COMPACTOR	TRACTOR TAMPING OR BIKING VIBRATION ROLLER	TAMPING OR RUBBER-TIRED ROLLER	TAMPING OR RUBBER-TIRED ROLLER	TAMPING OR RUBBER-TIRED ROLLER	TAMPING OR RUBBER-TIRED ROLLER	TAMPING OR RUBBER-TIRED ROLLER	TAMPING OR RUBBER-TIRED ROLLER	TAMPING OR RUBBER-TIRED ROLLER	TAMPING OR RUBBER-TIRED ROLLER	TAMPING OR RUBBER-TIRED ROLLER	TAMPING OR RUBBER-TIRED ROLLER	TAMPING OR RUBBER-TIRED ROLLER	TAMPING OR RUBBER-TIRED ROLLER	TAMPING OR RUBBER-TIRED ROLLER	TAMPING OR RUBBER-TIRED ROLLER	TAMPING OR RUBBER-TIRED ROLLER	TAMPING OR RUBBER-TIRED ROLLER	TAMPING OR RUBBER-TIRED ROLLER	TAMPING OR RUBBER-TIRED ROLLER	TAMPING OR RUBBER-TIRED ROLLER
COMPACTION ABILITIES	GOOD WITH CLOSE CONTROL	GOOD	GOOD TO POOR	GOOD TO POOR	GOOD TO POOR	GOOD TO POOR	GOOD TO POOR	GOOD TO POOR	GOOD TO POOR	GOOD TO POOR	GOOD TO POOR	GOOD TO POOR	GOOD TO POOR	GOOD TO POOR	GOOD TO POOR	GOOD TO POOR	GOOD TO POOR	GOOD TO POOR	GOOD TO POOR	GOOD TO POOR	GOOD TO POOR
PUMPING ACTION	EXCELLENT TO FAIR	EXCELLENT TO FAIR	SLIGHT TO NONE	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR
BEARING VALUE	EXCELLENT TO FAIR	EXCELLENT TO FAIR	SLIGHT TO NONE	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR
DRAINAGE	EXCELLENT TO FAIR	EXCELLENT TO FAIR	SLIGHT TO NONE	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR	GOOD TO FAIR

NOTES:
 1. ALL SOILS, WHEN USED AS A BASE, PLASTIC INDEX AND LIQUID LIMIT SHOULD NOT EXCEED 6 AND 25 RESPECTIVELY. BEST FOR SOIL-CEMENT STABILIZATION, GENERALLY 6 TO 12% CEMENT BY WEIGHT WILL BE SUFFICIENT.
 2. ALL SOILS, WHEN USED AS A SUB-BASE, PLASTIC INDEX AND LIQUID LIMIT SHOULD NOT EXCEED 6 AND 25 RESPECTIVELY. BEST FOR SOIL-CEMENT STABILIZATION, GENERALLY 6 TO 12% CEMENT BY WEIGHT WILL BE SUFFICIENT.
 3. ALL SOILS, WHEN USED AS A SUB-GRADE, PLASTIC INDEX AND LIQUID LIMIT SHOULD NOT EXCEED 6 AND 25 RESPECTIVELY. BEST FOR SOIL-CEMENT STABILIZATION, GENERALLY 6 TO 12% CEMENT BY WEIGHT WILL BE SUFFICIENT.
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 8. ALL SOILS, WHEN USED AS A SUB-GRADE, PLASTIC INDEX AND LIQUID LIMIT SHOULD NOT EXCEED 6 AND 25 RESPECTIVELY. BEST FOR SOIL-CEMENT STABILIZATION, GENERALLY 6 TO 12% CEMENT BY WEIGHT WILL BE SUFFICIENT.
 9. ALL SOILS, WHEN USED AS A SUB-GRADE, PLASTIC INDEX AND LIQUID LIMIT SHOULD NOT EXCEED 6 AND 25 RESPECTIVELY. BEST FOR SOIL-CEMENT STABILIZATION, GENERALLY 6 TO 12% CEMENT BY WEIGHT WILL BE SUFFICIENT.
 10. ALL SOILS, WHEN USED AS A SUB-GRADE, PLASTIC INDEX AND LIQUID LIMIT SHOULD NOT EXCEED 6 AND 25 RESPECTIVELY. BEST FOR SOIL-CEMENT STABILIZATION, GENERALLY 6 TO 12% CEMENT BY WEIGHT WILL BE SUFFICIENT.
 11. ALL SOILS, WHEN USED AS A SUB-GRADE, PLASTIC INDEX AND LIQUID LIMIT SHOULD NOT EXCEED 6 AND 25 RESPECTIVELY. BEST FOR SOIL-CEMENT STABILIZATION, GENERALLY 6 TO 12% CEMENT BY WEIGHT WILL BE SUFFICIENT.
 12. ALL SOILS, WHEN USED AS A SUB-GRADE, PLASTIC INDEX AND LIQUID LIMIT SHOULD NOT EXCEED 6 AND 25 RESPECTIVELY. BEST FOR SOIL-CEMENT STABILIZATION, GENERALLY 6 TO 12% CEMENT BY WEIGHT WILL BE SUFFICIENT.
 13. ALL SOILS, WHEN USED AS A SUB-GRADE, PLASTIC INDEX AND LIQUID LIMIT SHOULD NOT EXCEED 6 AND 25 RESPECTIVELY. BEST FOR SOIL-CEMENT STABILIZATION, GENERALLY 6 TO 12% CEMENT BY WEIGHT WILL BE SUFFICIENT.
 14. ALL SOILS, WHEN USED AS A SUB-GRADE, PLASTIC INDEX AND LIQUID LIMIT SHOULD NOT EXCEED 6 AND 25 RESPECTIVELY. BEST FOR SOIL-CEMENT STABILIZATION, GENERALLY 6 TO 12% CEMENT BY WEIGHT WILL BE SUFFICIENT.
 15. ALL SOILS, WHEN USED AS A SUB-GRADE, PLASTIC INDEX AND LIQUID LIMIT SHOULD NOT EXCEED 6 AND 25 RESPECTIVELY. BEST FOR SOIL-CEMENT STABILIZATION, GENERALLY 6 TO 12% CEMENT BY WEIGHT WILL BE SUFFICIENT.
 16. ALL SOILS, WHEN USED AS A SUB-GRADE, PLASTIC INDEX AND LIQUID LIMIT SHOULD NOT EXCEED 6 AND 25 RESPECTIVELY. BEST FOR SOIL-CEMENT STABILIZATION, GENERALLY 6 TO 12% CEMENT BY WEIGHT WILL BE SUFFICIENT.
 17. ALL SOILS, WHEN USED AS A SUB-GRADE, PLASTIC INDEX AND LIQUID LIMIT SHOULD NOT EXCEED 6 AND 25 RESPECTIVELY. BEST FOR SOIL-CEMENT STABILIZATION, GENERALLY 6 TO 12% CEMENT BY WEIGHT WILL BE SUFFICIENT.
 18. ALL SOILS, WHEN USED AS A SUB-GRADE, PLASTIC INDEX AND LIQUID LIMIT SHOULD NOT EXCEED 6 AND 25 RESPECTIVELY. BEST FOR SOIL-CEMENT STABILIZATION, GENERALLY 6 TO 12% CEMENT BY WEIGHT WILL BE SUFFICIENT.
 19. ALL SOILS, WHEN USED AS A SUB-GRADE, PLASTIC INDEX AND LIQUID LIMIT SHOULD NOT EXCEED 6 AND 25 RESPECTIVELY. BEST FOR SOIL-CEMENT STABILIZATION, GENERALLY 6 TO 12% CEMENT BY WEIGHT WILL BE SUFFICIENT.
 20. ALL SOILS, WHEN USED AS A SUB-GRADE, PLASTIC INDEX AND LIQUID LIMIT SHOULD NOT EXCEED 6 AND 25 RESPECTIVELY. BEST FOR SOIL-CEMENT STABILIZATION, GENERALLY 6 TO 12% CEMENT BY WEIGHT WILL BE SUFFICIENT.
 21. ALL SOILS, WHEN USED AS A SUB-GRADE, PLASTIC INDEX AND LIQUID LIMIT SHOULD NOT EXCEED 6 AND 25 RESPECTIVELY. BEST FOR SOIL-CEMENT STABILIZATION, GENERALLY 6 TO 12% CEMENT BY WEIGHT WILL BE SUFFICIENT.
 22. ALL SOILS, WHEN USED AS A SUB-GRADE, PLASTIC INDEX AND LIQUID LIMIT SHOULD NOT EXCEED 6 AND 25 RESPECTIVELY. BEST FOR SOIL-CEMENT STABILIZATION, GENERALLY 6 TO 12% CEMENT BY WEIGHT WILL BE SUFFICIENT.
 23. ALL SOILS, WHEN USED AS A SUB-GRADE, PLASTIC INDEX AND LIQUID LIMIT SHOULD NOT EXCEED 6 AND 25 RESPECTIVELY. BEST FOR SOIL-CEMENT STABILIZATION, GENERALLY 6 TO 12% CEMENT BY WEIGHT WILL BE SUFFICIENT.
 24. ALL SOILS, WHEN USED AS A SUB-GRADE, PLASTIC INDEX AND LIQUID LIMIT SHOULD NOT EXCEED 6 AND 25 RESPECTIVELY. BEST FOR SOIL-CEMENT STABILIZATION, GENERALLY 6 TO 12% CEMENT BY WEIGHT WILL BE SUFFICIENT.
 25. ALL SOILS, WHEN USED AS A SUB-GRADE, PLASTIC INDEX AND LIQUID LIMIT SHOULD NOT EXCEED 6 AND 25 RESPECTIVELY. BEST FOR SOIL-CEMENT STABILIZATION, GENERALLY 6 TO 12% CEMENT BY WEIGHT WILL BE SUFFICIENT.


ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED
 [Signature]
 CHIEF ENGINEER
 [Signature]
 DESIGN ENGINEER
 9/17/88
 DATE

STANDARD GENERAL DETAILS
 SOILS & SOIL-AGGREGATE MIXTURES
 CHARACTERISTICS AND PERFORMANCE

REVISED
 G
 5

TYPE	TREATMENT & USE
<u>A-2 SOILS:</u>	WELL GRADED TO POORLY GRADED SAND AND GRAVELS. GOOD BASE FOR MODERATE FLEXIBLE OR THIN RIGID PAVEMENT. GOOD FILL. FROST HEAVE, BREAK-UP IF PLASTIC. SOFTENS WHEN WET IF PLASTIC. USE BASE COURSE WHEN SUB-GRADE P.I. IS GREATER THAN 6. SUB-DRAINAGE EFFECTIVE. STABILIZE WITH BITUMEN, CHLORIDES, CEMENT OR ADMIXTURE SOIL.
<u>A-3 SOILS:</u>	CLEAN SANDS AND GRAVELS. IDEAL BASE FOR MODERATE FLEXIBLE OR THIN RIGID PAVEMENT. GOOD FILL. NO FROST HEAVE OR BREAK-UP. SUB-DRAINAGE ONLY THROUGH IMPERVIOUS SHOULDERS. STABILIZE WITH SOIL BINDER, BITUMINOUS, OR CHEMICAL ADMIXTURES.
<u>A-4 SOILS:</u>	SILTY SOILS. NOT GOOD FOR SURFACE. POOR BASE. ABSORBS WATER. UNSTABLE WHEN WET. BAD FROST HEAVE AND BREAK-UP. USE SUB-DRAINAGE AND/OR BASE AND SUB-BASE WITH FLEXIBLE PAVEMENT. USE BITUMINOUS SUB-GRADE PRIME. USE THICK CONCRETE PAVEMENT (7" TO 10") WITH STEEL REINFORCEMENT AND CRACK CONTROL.
<u>A-5 SOILS:</u>	ELASTIC SILTS. USE SUB-DRAINAGE AND/OR GRANULAR BASE AND SUB-BASE WITH BITUMINOUS SUB-GRADE PRIME. USE THICK CONCRETE PAVEMENT, REINFORCED WITH CRACK CONTROL.
<u>A-6 SOILS:</u>	CLAYS. IMPERMEABLE AND STABLE WHEN DRY AND UNDISTURBED (HARD CLAY). PLASTIC AND ABSORBENT IF DISTURBED. BAD PUMPING INTO POROUS BASE. MACADAM OR PAVEMENT JOINTS. SHRINKS OR CRACKS WHEN DRY. USE GRANULAR BASE AND SUBBASE. USE SUB-DRAINAGE ONLY WHEN MADE PERVIOUS BY CRACKS, ROOT HOLES AND LAMINATIONS. FROST HEAVE SLIGHT WHEN IMPERMEABLE, BAD WHEN PERVIOUS. USE SUB-GRADE PRIME. USE THICK, STRONG, DENSE FLEXIBLE PAVEMENT OR REINFORCED CRACK CONTROLLED CONCRETE.
<u>A-7 SOILS:</u>	EXPANSIVE, PLASTIC CLAYS. EXCESSIVE VOLUME CHANGE. BAD FROST HEAVE AND BREAK-UP. SUB-DRAINAGE NOT EFFECTIVE. USE THICK, DENSE, FLEXIBLE PAVEMENT WITH BASE AND SUB-BASE OVER SUB-GRADE PRIME OR REINFORCED CRACK CONTROLLED CONCRETE PLACED ON IMPERVIOUS PAPER.
<u>A-8 SOILS:</u>	MUCK AND PEAT. UNFIT FOR CONSTRUCTION PURPOSES. EXCAVATE TO SOLID STRATUM AND REPLACE WITH SELECTED FILL. DISPLACEMENT BY SUPERIMPOSED FILL IS DOUBTFUL. DISPLACEMENT BY EXPLOSIVE UNDER SUPERIMPOSED FILL IS SOMETIMES EFFECTIVE.

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS	APPROVED  CHIEF ENGINEER DESIGN ENGINEER 9/7/88 DATE	STANDARD GENERAL DETAILS SOILS & SOIL-AGGREGATE MIXTURES TREATMENT & USE	REVISED	6 <hr/> 6

	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				

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