

011\11027\dwg\11027-4001 Site Development Plan.dwg, Plan Sheet 3, 2/2/2012 6:11:3

PLANTS, RELATED MATERIAL, AND OPERATIONS SHALL MEET THE DETAILED DESCRIPTION AS GIVEN ON THE PLANS AND AS DESCRIBED HEREIN ALL PLANT MATERIAL, UNLESS OTHERWISE SPECIFIED, SHALL BE NURSERY GROWN, UNIFORMLY BRANCHED, HAVE A VIGOROUS ROOT SYSTEM, AND SHALL CONFORM TO THE SPECIES, SIZE, ROOT AND SHAPE SHOWN ON THE PLANT LIST AND THE AMERICAN ASSOCIATION OF NURSERYMEN (AAN) STANDARDS. PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS, FREE FROM DEFECTS, DECAY, DISFIGURING ROOTS, SUN SCALD INJURIES, ABRASIONS OF THE BARK, PLANT DISEASE, INSECT PEST EGGS, BORERS AND ALL FORMS OF INSECT INFESTATIONS OR OBJECTIONABLE DISFIGUREMENTS. PLANT MATERIAL THAT IS WEAK OR WHICH HAS BEEN CUT BACK FROM LARGER GRADES TO MEET SPECIFIED REQUIREMENTS WILL BE REJECTED. TREES WITH FORKED LEADERS WILL NOT BE ACCEPTED. ALL PLANTS SHALL BE FRESHLY DUG; NO HEALED-IN PLANTS FROM COLD STORAGE WILL BE ACCEPTED

UNLESS OTHERWISE SPECIFIED, ALL GENERAL CONDITIONS, PLANTING OPERATIONS, DETAILS AND PLANTING SPECIFICATION SHALL CONFORM TO "LANDSCAPE SPECIFICATION GUIDELINES FOR BALTIMORE—WASHINGTON METROPOLITAN AREAS", (HEREINAFTER "LANDSCAPE GUIDELINES") APPROVED BY THE LANDSCAPE CONTRACTORS ASSOCIATION OF METROPOLITAN WASHINGTON AND THE POTOMAC CHAPTER OF THE AMERICAN SOCIETY OF LANDSCAPE ARCHITECT, LATEST EDITION, INCLUDING ALL AGENDA.

CONTRACTOR SHALL BE REQUIRED TO GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE YEAR AFTER DATE OF ACCEPTANCE IN ACCORDANCE WITH THE APPROPRIATE SECTION OF THE LANDSCAPE GUIDELINES CONTRACTOR'S ATTENTION IS DIRECTED TO THE MAINTENANCE REQUIREMENTS FOUND WITHIN THE ONE YEAR SPECIFICATIONS INCLUDING WATERING AND REPLACEMENT OF SPECIFIED PLANT CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING UTILITY COMPANIES, UTILITY CONTRACTORS AND "MISS UTILITY" A MINIMUM OF 40 HOURS PRIOR TO BEGINNING ANY WORK. CONTRACTOR MAY MAKE

PROTECTION OF EXISTING VEGETATION TO REMAIN SHALL BE PROVIDED IN ACCORDANCE WITH THE APPROVED FOREST CONSERVATION PLAN

CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL MATERIAL IN THE PROPER PLANTING SEASON FOR EACH PLANT TYPE. ALL PLANTING IS TO BE COMPLETED WITHIN THE GROWING SEASON OF COMPLETION OF BID SHALL BE BASED ON ACTUAL SITE CONDITIONS. NO EXTRA PAYMENT SHALL BE MADE FOR WORK ARISING FROM SITE CONDITIONS DIFFERING FROM THOSE INDICATED ON DRAWINGS AND SPECIFICATIONS PLANT QUANTITIES ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. IF DISCREPANCIES EXIST BETWEEN QUANTITIES SHOWN ON PLAN AND THOSE SHOWN ON THE PLANT LIST, THE QUANTITIES ON THE PLAN TAKE PRECEDENCE.

ALL SHRUBS SHALL BE PLANTED IN CONTINUOUS TRENCHES OR PREPARED PLANTING BEDS AND MULCHED WITH COMPOSTED HARDWOOD MULCH AS DETAILS AND SPECIFIED EXCEPT WHERE NOTED ON PLANS. POSITIVE DRAINAGE SHALL BE MAINTAINED IN PLANTING BEDS (2 PERCENT SLOPE). PLANTING MIX SHALL BE AS FOLLOWS: DECIDUOUS PLANTS — TWO PARTS TOPSOIL, ONE PART WELL-ROTTED COW OR HORSE MANURE. ADD 3 LBS. OF STANDARD FERTILIZER PER CUBIC YARD OF PLANTING MIX. EVERGREEN PLANTS — TWO PARTS TOPSOIL, ONE PART HUMUS OR OTHER APPROVED ORGANIC MATERIAL. ADD 3 LBS. OF EVERGREEN (ACIDIC) FERTILIZER PER CUBIC YARD OF PLANTING MIX. TOPSOIL SHALL CONFORM TO THE LANDSCAPE GUIDELINES.

NOTE: FENCE POST SPACING SHALL NOT EXCEED 10

STANDARD SYMBOL

CENTER TO CENTER

TINTINTINTIN .

GROUND 1

SURFACE

CHAIN LINK FENCING

EMBED FILTER CLOTH & _____

6' LENGTH POSTS.

MINIMUM INTO GROUND * IF MULTIPLE LAYERS ARE

REQUIRED TO ATTAIN 42"

21/2" DIAMETER

GALVANIZED

OR ALUMINUM

POSTS

10' MAXIMUM

FILTER CLOTH

CONSTRUCTION SPECIFICATIONS

1. FENCING SHALL BE 42" IN HEIGHT AND CONSTRUCTED IN ACCORDANCE WITH THE

latest maryland state highway details for chain link fencing. The

2. CHAIN LINK FENCE SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH WI

3. FILTER CLOTH SHALL BE FASTENED SECURELY TO THE CHAIN LINK FENCE WITH TIES

6. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SILT BUILDUPS REMOVED WHEN

"BULGES" DEVELOP IN THE SILT FENCE, OR WHEN SILT REACHES 50% OF FENCE 7. FILTER CLOTH SHALL BE FASTENED SECURELY TO EACH FENCE POST WITH WIRE TIES OR STAPLES AT TOP AND MID SECTION AND SHALL MEET THE FOLLOWING

0.3 GAL/FT /MINUTE (MAX.) TEST: MSMT 322

SLOPE LENGTH

UNLIMITED

200 FEET 100 FEET

100 FEET

50 FEET

POST CAPS ARE NOT REQUIRED EXCEPT ON THE ENDS OF THE FENCE.

4. FILTER CLOTH SHALL BE EMBEDDED A MINIMUM OF 8" INTO THE GROUND.

50 LBS/IN (MIN.)

20 LB5/IN (MIN.)

DESIGN CRITERIA

SUPER SILT FENCE, TREE PROTECTION FENCE

NOT TO SCALE

75% (MIN.)

5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE

SPACED EVERY 24" AT THE TOP AND MID SECTION.

OVERLAPPED BY 6" AND FOLDED.

TENSILE STRENGTH

FILTERING EFFICIENCY

TENSILE MODULUS

FLOW RATE

0 - 10%

10 - 20%

20 - 33%

33 - 50%

50% +

REQUIREMENTS FOR GEOTEXTILE CLASS F:

0 - 10:1

10:1 - 5:1

5:1 - 3:1

3:1 - 2:1

2:1 +

- CHAIN LINK FENCE

WITH I LAYER OF

FLOW

- 16" MIN. 15T LAYER OF

TEST: MSMT 509

SILT FENCE LENGTH

(MAXIMUM)

UNLIMITED

1.500 FEET

1,000 FEET

500 FEET

250 FEET

TEST: MSMT 322

FILTER CLOTH

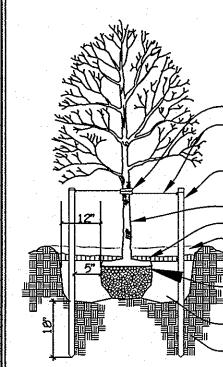
WEED CONTROL: INCORPORATE A PRE-EMERGENT HERBICIDE INTO THE PLANTING BED FOLLOWING RECOMMENDED RATES ON THE LABEL. CAUTION: BE SURE TO CAREFULLY CHECK THE CHEMICAL USED TO ASSURE ITS ADAPTABILITY TO THE SPECIFIC GROUND COVER TO BE TREATED. ALL AREAS WITHIN CONTRACT LIMITS DISTURBED DURING OR PRIOR TO CONSTRUCTION NOT DESIGNATED TO RECEIVE PLANTS AND MULCH SHALL BE FINE GRADED AND SEEDED

SCHEDULE A PERIMETER LANDSCAPE EDGE PERIMETER P-2 ADJACENT ADJACENT CATEGORY to property to property LANDSCAPE TYPE LINEAR FEET OR ROADWAY 130' 290' FRONTAGE/PERIMETER YE5 CREDIT FOR EXISTING VEGETATION (YES, NO LINEAR FEET) x. 36° Black (DESCRIBE BELOW IF NEEDED) Cherry Tree CREDIT FOR WALL, FENCE OR BERM (YES, NO LINEAR FEET) NO NO (DESCRIBE BELOW IF NEEDED) NUMBER OF PLANTS REQUIRED SHADE TREES EVERGREEN TREES SHRUBS ------NUMBER OF PLANTS PROVIDED SHADE TREES EVERGREEN TREES SHRUBS

* CREDIT FOR ONE 36" BLACK CHERRY TREE FOUR (4) SHADE TREES SHALL BE PLANTED ALONG P-1 TO SCREEN THE SIDE OF THE NEW BUILDING.

HORTICULTURAL PRACTICES

NOTCH STAKE.



TREE SHALL BEAR SAME RELATION TO FINISH GRADE AS IT BORE IN NURSERY. REMOVE DEAD AND DAMAGED BRANCHES BY PRUNING ACCORDING TO RECOGNIZED

- REINFORCED BLACK RUBBER HOSE 1/2" DIA. DOUBLE #10 GAGE NON-CORRODABLE WIRE TWISTED UNTIL TAUT. STAKES & WIRE TO BE REMOVED AFTER SIX (6) MONTHS - 2" X 2" HARDWOOD STAKES, 8' LONG. 2 PER TREE.

3" SHREDDED BARK MULCH 3" MIN. 50IL RIM, 4' DIA. REMOVE AFTER ONE YEAR. FLOOD TWICE DURING FIRST 24 HOURS.

REMOVE ROTTABLE BURLAP FROM UPPER SOIL MIX - SEE SOIL SPECIFICATIONS

existing undisturbed subsoil. If Subsoil IS FILL, SET TREE 4" ABOVE FINISH GRADE TO ALLOW FOR SETTLEMENT.

TREE PLANTING DETAIL NO SCALE

LANDSCAPING PLANT LIST						
QTY.	KEY	NAME	SIZE			
4		ACER RUBRUM RED MAPLE	2-1/2" - 3" CAL			

DEVELOPER'S LANDSCAPE CERTIFICATE "I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION A LETTER OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE ONE YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

48/12

LANDSCAPE PLAN GENERAL NOTES A. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE & LANDSCAPE MANUAL.

B. ALTERNATIVE LANDSCAPING HAS BEEN PROVIDED ALONG PERIMETER NO.1 TO ESTABLISHED AN ADDITIONAL SCREEN FOR THE PROPOSED RESIDENTIAL UNITS.

EXISTING TREES TO REMAIN

MINIMUM

118118118

36" MINIMUM

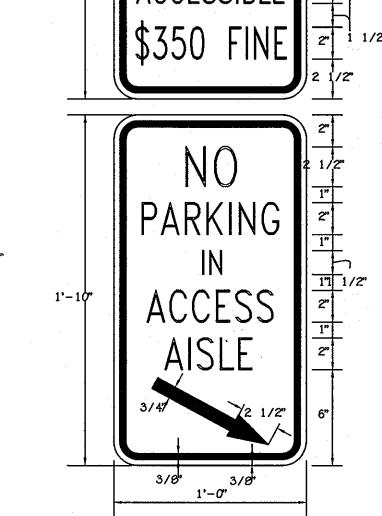
- 8° MINIMUM

3'± O.C.

'± Orange Streamers

C. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING MUST BE POSTED AS PART OF THE GRADING PERMIT IN THE AMOUNT OF \$1,500 (5 SHADE TREES @ 300.00/TREE)

D. AT THE TIME OF PLANT INSTALLATION, ALL SHRUBS AND TREES LISTED AND APPROVED ON THE LANDSCAPE PLAN, SHALL COMPLY WITH THE PROPER HEIGHT REQUIREMENT IN ACCORDANCE WITH THE HOWARD COUNTY LANDSCAPE MANUAL. IN ADDITION, NO SUBSTITUTIONS OR RELOCATIONS OF THE REQUIRED PLANTINGS MAY BE MADE WITHOUT PRIOR REVIEW AND APPROVAL FROM THE DEPARTMENT OF PLANNING AND ZONING. ANY DEVIATION FROM THE APPROVED LANDSCAPE PLAN MAY RESULT IN DENIAL OR DELAY IN THE RELEASE OF LANDSCAPE SURETY UNTIL SUCH TIME AS ALL REQUIRED MATERIALS ARE PLANTED AND/OR REVISIONS ARE MADE TO THE APPLICABLE PLANS.



4 7/8" | 5"

2'-1"

3/8"

ANNAPOLIS JUNCTION; PARCEL 106 $\binom{C/O}{1}$ 225 BUILDING NO. 1 5LAB = 222.00220 220 4"5@1.00% 215 217.23 - 216.71 210 PROFILE 5CALE: HORZ.: 1" = VERT.: 1" =

4" SEWER MAIN TO BUILDING

CLEAN-OUT TABULATION CHART						
NO.	NORTHING	easting	RIM ELEVATION			
1	531987.73	1368632.45	221.50			

NOTE: SET MH RIMS FLUSH W/EXISTING GROUND OR PROPOSED GRADE AS APPLICABLE.

1. SIGNS SHALL MEET DESIGN STANDARDS OF THE FEDERAL HIGHWAY ADMINISTRATION AND CONFORM TO THE STATE OF MARYLAND STANDARD HIGHWAY SIGN BOOKLET DETAIL R7—8. 2. ONE SIGN IS REQUIRED PER SPACE PLACED AS SHOWN ON SITE IMPROVEMENT PLAN. 3. SIGNS SHALL BE POLE MOUNTED WITH HOT DIPPED CALVANIZED COUNTY APPROVED PERFORATED CHANNEL POSTS W/TOP OF SIGNS 9'-1" ABOVE FINISHED GRADE OR AS INDICATED ON SITE DRAWINGS. 4. SIGN SHALL BE ATTACHED TO FLANGED SIDE OF POST. POST SHALL EXTEND INTO GROUND 2'-6" MIN. 5. COLORS: LEGEND AND BORDER-GREEN SYMBOL-WHITE ON BLUE BACKGROUND BACKGROUND-WHITE

6. CONTRACTOR SHALL COORDINATE ARROW DIRECTION WITH LOCATION OF ADJACENT AISLE. 7. SPACES INDICATED ON SITE DEVELOPMENT PLANS AS "VAN ACCESSIBLE" SHALL BE SIGNED

HANDICAP PARKING SIGN DETAIL NOT TO SCALE

BLUE PAINT (SEE NOTE) -WHITE PAINT INSTALL CENTER OF PARKING 1'-0" LINE SPACING FOR PAINTED CROSSWALKS SHALL BE SHOWN LINES W/12" UNLESS OTHERWISE NOTED MAX. SPACES PAINTED WHITE Ø'−0" ACCESSIBLE SPACE LAYOUT

| Handicap Sign | Van Accessible Sign

5'x8'Levely

PROPOSED

BUILDING NO. 1

14,100 sq. ft. SLAB ELEV. = 222.00/

HANDICAP ACCESS PLAN

5CALE: = 1" = 20"

Area

1'-1" 4" NOTE:
SYMBOL IS REQUIRED TO CONTRAST WITH BACKGROUND (WHITE ON BLUE:
COLOR NO. 105090 IN FED. STANDARD 5952-DOUBLE COAT TYP.)

3'-1/2"

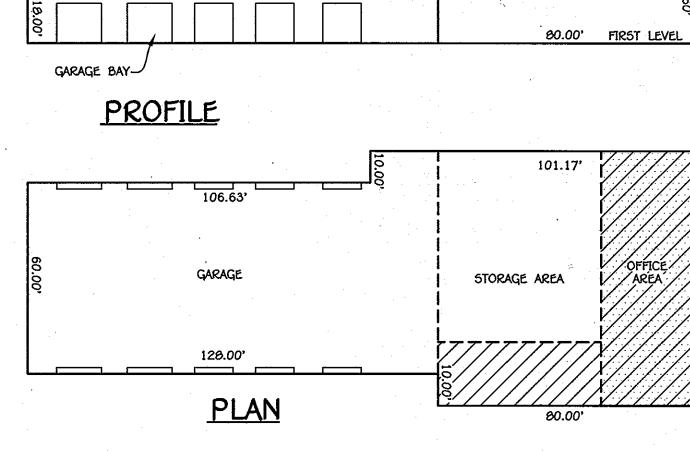
PARKING SPACEST

comp 221.45

222.00 5'x7' Level

2

HANDICAP SPACE STENCIL LAYOUT SCALE: 1" = 20'



BUILDING DETAIL

MEZZANINE OFFICE 3,344 SqFt. /// FIRST LEVEL OFFICE 2,325 SQFT. [

SCALE: = 1" = 30"

FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS

2 Added Elevs, etc. to Handicop Acc. Plan 9:14:12 1 REVISIONS ASSOCIATED WITH ADDITION OF NEW BUILDING 2/2/12 REVISION

CERTIFICATION ents were prepared or approved by ROFESSIONAL ENGINEER UNDER THE LAWS 10. 20784, EXPIRATION DATE: 2/22/13.

SCALE: 1" = 20'

OWNER JOHN L. VOS, TRUSTEE 8830 CORRIDOR ROAD HOWARD COUNTY, MARYLAND 21042 DEVELOPER RASMUSSEN CONSTRUCTION SERVICES, INC. 614 KLEES MILL ROAD WESTMINSTER, MD 21157

410-701-7575

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING 3-29-12 Chul Cohonsh 3.28.1Z Chief, Development Engineering Division Her Director - Department of Planning and Zoning 3/4/12 PROJECT PARCEL NO. ANNAPOLIS JUNCTION PARCEL 106 TAX/ZONE | ELEC. DIST. CENSUS TR. ZONE BLOCK NO. 1621 / M-2 SIXTH 784 WATER CODE SEWER CODE 400 4020000

REVISED SEWER PROFILE, LANDSCAPING, TREE PROTECTION DETAILS, HANDICAP ACCESS PLAN, NOTES & DETAILS SHEET

VERMEER SALES AND SERVICE INC. PROPOSED BUILDING

TAX MAP NO.: 48 GRID NO.: 13 PARCEL NO.: 106 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND SCALE: AS SHOWN DATE: JANUARY, 2012 SHEET 4 OF 6

5DP-88-199

MEZZANINE

VEGETATIVE STABILIZATION SPECIFICATIONS ARE USED TO PROMOTE THE ESTABLISHMENT OF VEGETATION ON EXPOSED SOIL WHEN SOIL IS STABILIZED WITH VEGETATION, THE SOIL IS LESS LIKELY TO ERODE AND MORE LIKELY TO ALLOW INFILTRATION OF RAINFALL, THEREBY REDUCING SEDIMENT LOADS AND RUN-OFF TO DOWNSTREAM AREAS. AND IMPROVING WILDLIFE HABITAT AND VISUAL RESOURCES.

CONDITIONS WHERE PRACTICE APPLIES

THIS PRACTICE SHALL BE USED ON DENUDED AREAS AS SPECIFIED ON THE PLANS AND MAY BE USED ON HIGHLY ERODIBLE OR CRITICALLY ERODING AREAS. THIS SPECIFICATION IS DIVIDED INTO TEMPORARY SEEDING, TO QUICKLY ESTABLISH VEGETATIVE COVER FOR SHORT DURATION (UP TO ONE YEAR), AND PERMANENT SEEDING, FOR LONG TERM VEGETATIVE COVER. EXAMPLES OF APPLICABLE AREAS FOR TEMPORARY SEEDING ARE TEMPORARY SOIL STOCKPILES, CLEARED AREAS BEING LEFT IDLE BETWEEN CONSTRUCTION PHASES, EARTH DIKES, ETC. AND FOR PERMANENT SEEDING ARE LAWNS, DAMS, OUT AND FILL SLOPES AND OTHER AREAS AT FINAL GRADE. FORMER STOCKPILE AND STACING AREAS, ETC.

EFFECTS ON WATER QUALITY AND QUANTITY

PLANTING VEGETATION IN DISTURBED AREAS WILL HAVE AN EFFECT ON THE WATER BUDGET, ESPECIALLY ON VOLUMES AND RATES OF RUNOFF, INFILTRATION EVAPORATION, TRANSPIRATION, PERCOLATION, AND GROUNDWATER RECHARGE. VEGETATION, OVER TIME, WILL INCREASE ORGANIC MATTER CONTENT AND IMPROVE THE WATER HOLDING CAPACITY OF THE SOIL AND SUBSECUENT PLANT GROWTH. VEGETATION WILL HELP REDUCE THE MOVEMENT OF SEDIMENT, NUTRIENTS, AND OTHER CHEMICALS CARRIED BY RUNOFF TO RECEIVING WATERS. PLANTS WILL ALSO HELP PROTECT CROUNDWATER SUPPLIES BY ASSIMILATING THOSE SUBSTANCES PRESENT WITH THE ROOT ZONE. SEDIMENT CONTROL DEVICES MUST REMAIN IN PLACE DURING GRADING, SEEDBED PREPARATION, SEEDING, MULCHING AND VEGETATIVE ESTABLISHMENT TO PREVENT LARGE QUANTITIES OF SEDIMENT AND ASSOCIATED CHEMICALS AND NUTRIENTS FROM WASHING INTO SURFACE WATERS.

SECTION 1 - VEGETATIVE STABILIZATION METHODS AND MATERIALS

A SITE PREPARATION INSTALL EROSION AND SEDIMENT CONTROL STRUCTURES (EITHER TEMPORARY OF PERMANENT) SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, BERMS, WATERWAYS, OR SEDIMENT CONTROL BASINS. PERFORM ALL GRADING OPERATIONS AT RIGHT ANGLES TO THE SLOPE. FINAL GRADING AND SHAPING IS NOT USUALLY NECESSARY FOR TEMPORARY SEEDING.

iii. SCHEDULE REQUIRED SOIL TESTS TO DETERMINE SOIL AMENOMENT COMPOSITION AND APPLICATION RATES FOR SITES HAVING DISTURBED AREA OVER 5 ACRES.

B. SOIL AMENDMENTS (FERTILIZER AND LIME SPECIFICATIONS) SOIL TESTS MUST BE PERFORMED TO DETERMINE THE EXACT RATIOS AND APPLICATION RATES FOR BOTH LIME AND FERTILIZER ON SITES HAVING DISTURBED AREAS OVER 5 ACRES, SOIL ANALYSIS MAY BE PERFORMED BY THE UNIVERSITY OF MARYLAND OR A RECOGNIZED COMMERCIAL LABORATORY. SOIL SAMPLES TAKEN FOR ENGINEERING PURPOSES MAY ALSO BE USED FOR CHEMICAL ANALYSES.

FERTILIZERS SHALL BE UNIFORM IN COMPOSITION. FREE FLOWING AND SUITABLE FOR ACCURATE APPLICATION BY APPROVED EQUIPMENT. MANURE MAY BE SUBSTITUTED FOR FERTILIZER WITH PRIOR APPROVAL FROM THE APPROPRIATE APPROVAL AUTHORITY. FERTILIZERS SHALL ALL BE DELIVERED TO THE SITE FULLY LABELED ACCORDING TO THE APPLICABLE STATE FERTILIZER LAWS AND SHALL BEAR THE NAME, TRADEMARK AND WARRANTEE

OF THE PRODUCER. LIME MATERIALS SHALL BE GROUND LIMESTONE (HYDRATED OR BURNT LIME MAY BE SUBSTITUTED) WHICH CONTAINS AT LEAST 50% TOTAL OXIDES (CALCIUM OXIDE PLUS MAGNESIUM OXIDE). LIMESTONE SHALL BE GROUND TO SUCH FINENESS THAT AT LEAST 50% WILL PASS THROUGH A *100 MESH SIEVE AND 90-100% WILL PASS THROUGH A *20 MESH SIEVE. iv. INCORPORATE LIME AND FERTILIZER INTO THE TOP 3-5" OF SOIL BY DISKING OR OTHER SUITABLE MEANS. C. SEEDBED PREPARATION

TEMPORARY SEEDING SEEDBED PREPARATION SHALL CONSIST OF LOOSENING SOIL TO A DEPTH OF 3" TO 5" BY MEANS OF SUITABLE ACRICULTURAL OR CONSTRUCTION EQUIPMENT, SUCH AS DISC HARROWS OR CHISEL PLOWS OR RIPPERS MOUNTED ON CONSTRUCTION EQUIPMENT. AFTER THE SOIL IS LOOSENED IT SHOULD NOT BE ROLLED OR DRAGGED SMOOTH, BUT LEFT IN THE ROUGHENED CONDITION. SLOPED AREAS (GREATER THAN 3:1) SHOULD BE TRACKED LEAVING THE SURFACE IN AN IRREGULAR CONDITION WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE.

b. APPLY FERTILIZER AND LIME AS PRESCRIBED ON THE PLANS. c. INCORPORATE LIME AND FERTILIZER INTO THE TOP 3-5" OF SOIL BY DISKING OR OTHER SUITABLE MEANS.

a. MINIMUM SOIL CONDITIONS REQUIRED FOR PERMANENT VEGETATIVE ESTABLISHMENT: SOIL PH SHALL BE BETWEEN 6.0 AND 7.0.

SOLUBLE SALTS SHALL BE LESS THAN 500 PARTS PER MILLION (PPM). THE SOIL SHALL CONTAIN LESS THAN 40CLAY, BUT ENOUGH FINE GRAINED MATERIAL (>30% SILT PLUS CLAY) TO PROMIDE THE CAPACITY TO HOLD A MODERATE AMOUNT OF MOISTURE. AN EXCEPTION IS IF LOVECRASS OR SERECIA LESPEDEZAS IS TO BE PLANTED, THEN A SANDY SOIL (<30% SILT PLUS CLAY) WOULD BE

SOIL SHALL CONTAIN 1.5% MINIMUM ORGANIC MATTER BY WEIGHT. SOIL MUST CONTAIN SUFFICIENT PORE SPACE TO PERMIT ADEQUATE ROOT PENETRATION. 6. IF THESE CONDITIONS CANNOT BE MET BY SOILS ON SITE, ADDING TOPSOIL IS REQUIRED

IN ACCORDANCE WITH SECTION 21 STANDARD AND SPECIFICATION FOR TOPSOIL. AREAS PREVIOUSLY GRADED IN CONFORMANCE WITH THE DRAWINGS SHALL BE MAINTAINED IN A TRUE AND EVEN GRADE, THEN SCARIFIED OR OTHERWISE LOOSENED TO A DEPTH OF 3-5" TO PERMIT BONDING OF THE TOPSOIL to the surface area and to create horizontal erosion check slots to prevent topscil from sliding

APPLY SOIL AMENOMENTS AS PER SOIL TESTS OR AS INCLUDED ON THE PLANS. MIX SOIL AMENOMENTS INTO THE TOP 3-5" OF TOPSOIL BY DISKING OR OTHER SUITABLE MEANS. LAWN AREAS SHOULD BE RAKED TO SMOOTH THE SURFACE, REMOVE LARGE OBJECTS LIKE STONES AND BRANCHES, AND READY THE AREA FOR SEED AND APPLICATION. WHERE SITE CONDITIONS WILL NOT PERMIT NORMAL SEEDBED, PREPARATION, LOOGEN SURFACE SOIL BY DRAGGING WITH A HEAVY CHAIN OR OTHER EQUIPMENT TO ROUGHEN THE SURFACE. STEEP SLOPES (STEEPER THAN 3:1) SHOULD BE TRACKED BY A DOZER LEAVING THE SOIL IN AN IRREGULAR CONDITION WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE. THE TOP 1-3" OF SOIL SHOULD BE LOOSE AND FRIABLE. SEEDBED LOOSENING MAY NOT BE NECESSARY ON NEWLY DISTURBED AREAS.

ALL SEED MUST MEET THE REQUIREMENTS OF THE MARYLAND STATE SEED LAW. ALL SEED SHALL BE SUBJECT TO RE-TESTING BY A RECOCNIZED SEED LABORATORY. ALL SEED USED SHALL HAVE BEEN TESTED WITHIN THE 6 MONTHS IMMEDIATELY PRECEDING THE DATE OF SOWING SUCH MATERIAL ON THIS JOB.

NOTE: SEED TACS SHALL BE MADE AVAILABLE TO THE INSPECTOR TO VERIFY TYPE AND RATE OF SEED USED. INOCULATION - THE INOCULANT FOR TREATING LEGUME SEED IN THE SEED MOXTURES SHALL BE A PURE CULTURE OF NTROGEN-FIXING BACTERIA PREPARED SPECIFICALLY FOR THE SPECIES. INOCULANTS SHALL NOT BE USED LATER THAN THE DATE INDICATED ON THE CONTAINER. ADD FRESH INCCULANT AS DIRECTED ON PACKAGE. USE FOUR TIMES THE RECOMMENDED RATE WHEN HYDROGEEDING. NOTE: IT IS VERY IMPORTANT TO KEEP INDOULANT AS COOL AS POSSIBLE UNTIL USED. TEMPERATURES ABOVE 75°-80° F. CAN WEAKEN BACTERIA AND MAKE THE INOCULANT LESS EFFECTIVE.

E. METHOOS OF SEEDING HYDROSEEDING: APPLY SEED UNIFORMLY WITH HYDROSEEDER (SLURRY INCLUDES SEED AND FERTILIZER). BROADCAST OR DROP SEEDED, OR A CULTIPACKER SEDER.

a. If FERTILIZER IS BEING APPLIED AT THE TIME OF SEEDING, THE APPLICATION RATES AMOUNTS WILL NOT EXCEED THE FOLLOWING; NTROGEN; MAXIMUM OF 100 LBS. PER ACRE TOTAL OF SOLUBLE NTROGEN; P205 (PHOSPHOROUS);

200 LBS/AC: K20 (POTASSIUM): 200 LBS/AC. LIME - USE ONLY GROUND AGRICULTURAL LIMESTONE, (UP TO 3 TONS PER ACRE MAY BE APPLIED BY HYDROSEEDING). NORMALLY, NOT MORE THAN 2 TONS ARE APPLIED BY HYDROGEEDING AT ANY ONE TIME. DO NOT USE BURNT OR

HYDRATED LIME WHEN HYDROSEEDING SEED AND FERTILIZER SHALL BE MIXED ON SITE AND SEEDING SHALL BE DONE IMMEDIATELY AND WITHOUT

DRY SEEDING: THIS INCLUDES USE OF CONVENTIONAL DROP OR BROADCAST SPREADERS SEED SPREAD DRY SHALL BE INCORPORATED INTO THE SUBSOIL AT THE RATES PRESCRIBED ON THE temporary or permanent sceding summaries or tables 265 or 266. The seeded area shall then be ROLLED WITH A WEIGHTED ROLLER TO PROMDE GOOD SEED TO SOIL CONTACT WHERE PRACTICAL, SEED SHOULD BE APPLIED IN TWO DIRECTIONS PERPENDICULAR TO EACH OTHER. APPLY HALF

THE SEEDING RATE IN EACH DIRECTION. DRILL OR CULTIPACKER SEEDING. MECHANIZED SEEDERS THAT APPLY AND COVER SEED WITH SOIL CULTIPACKING SEEDERS ARE REQUIRED TO BURY THE SEED IN SUCH A FASHION AS TO PROMDE AT LEAST 1/4 INCH

OF SOIL COVERING. SEEDBED MUST BE FIRM AFTER PLANTING. WHERE PRACTICAL, SEED SHOULD BE APPLIED IN TWO DIRECTIONS PERPENDICULAR TO EACH OTHER. APPLY HALF THE SEEDING RATE IN EACH DIRECTION.

MULCH SPECIFICATIONS (IN ORDER OF PREFERENCE) STRAW SHALL CONSIST OF THOROUGHLY THRESHED WHEAT, RYE OR OAT STRAW, REASONABLE BRIGHT IN COLOR, AND SHALL NOT BE MUSTY, MOLDY, CAKED, DECAYED, OR EXCESSIVELY DUSTY AND SHALL BE FREE OF NOXIOUS WEED SEEDS AS SPECIFIED IN THE MARYLAND SEED LAW.

WOOD CELLULOSE FIBER MULCH (WCFM) WCFM SHALL CONSIST OF SPECIALLY PREPARED WOOD CELLULOSE PROCESSED INTO A UNIFORM FIBROUS

PHYSICAL STATE WCFM SHALL BE DYED GREEN OR CONTAIN A GREEN DYE IN THE PACKAGE THAT WILL PROVIDE AN APPROPRIATE COLOR TO FACILITATE VISUAL INSPECTION OF THE UNIFORMLY SPREAD SLURRY.

WCFM, INCLUDING DYE, SHALL CONTAIN NO GERMINATION OR GROWTH INHIBITING FACTORS. WOFM MATERIALS SHALL BE MANUFACTURED AND PROCESSED IN SUCH A MANNER THAT THE WOOD CELLULOSE FIBER MULCH WILL REMAIN IN UNIFORM SUSPENSION IN WATER UNDER ACTIATION AND WILL BLEND WITH SEED, FERTILIZER AND OTHER ADDITIVES TO FORM A HOMOGENEOUS SLURRY. THE MULCH MATERIAL SHALL FORM A BLOTTER-LIKE GROUND COVER, ON APPLICATION, HAVING MOISTURE ABSORPTION AND PERCOLATION PROPERTIES AND SHALL COVER AND HOLD GRASS SEED IN CONTACT WITH THE SOIL WITHOUT INHIBITING THE GROWTH OF THE

GRASS SEEDLINGS. WOFM MATERIAL SHALL CONTAIN NO ELEMENTS OR COMPOUNDS AT CONCENTRATION LEVELS THAT WILL BE

WOFM MUST CONFORM TO THE FOLLOWING PHYSICAL REQUIREMENTS: FIBER LENGTH TO APPROXIMATELY 10 MM., DIAMETER APPROXIMATELY 1 MM., pH RANCE OF 4.0 TO 8.5, ASH CONTENT OF 1.6% MAXIMUM AND WATER HOLDING CAPACITY OF 90% MINIMUM. NOTE: ONLY STERILE STRAW MULCH SHOULD BE USED IN AREAS WHERE ONE SPECIES OF GRASS IS DESIRED.

G. MULCHING SEEDED AREAS - MULCH SHALL BE APPLIED TO ALL SEEDED AREAS IMMEDIATELY AFTER SEEDING. IF GRADING IS COMPLETED OUTSIDE OF THE SEEDING SEASON, MULCH ALONE SHALL BE APPLIED AS PRESCRIBED IN THIS SECTION AND MAINTAINED UNTIL THE SEEDING SEASON RETURNS AND SEEDING CAN BE PERFORMED IN ACCORDANCE

WITH THESE SPECIFICATIONS. WHEN STRAW MULCH IS USED, IT SHALL BE SPREAD OVER ALL SEEDED AREAS AT THE RATE OF 2 TONS/ACRE. MULCH SHALL BE APPLIED TO A UNIFORM LOOSE DEPTH OF BETWEEN 1" AND 2". MULCH APPLIED SHALL ACHIEVE A UNIFORM DISTRIBUTION AND DEPTH SO THAT THE SOIL SURFACE IS NOT EXPOSED. IF A MULCH ANCHORING TOOL IS TO BE USED,

THE RATE SHOULD BE INCREASED TO 2.5 TONS/ACRE. iii. WOOD CELLULOSE FIBER USED AS A MULCH SHALL BE APPLIED AT A NET DRY WEIGHT OF 1,500 LBS. PER ACRE. THE WOOD CELLULOSE FIBER SHALL BE MIXED WITH WATER, AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LBS. OF WOOD CELLULOSE FIBER PER 100 CALLONS OF WATER.

H. SECURING STRAW MULCH (MULCH ANCHORING): MULCH ANCHORING SHALL BE PERFORMED IMMEDIATELY FOLLOWING MULCH APPLICATION TO MINIMIZE LOGS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS (LISTED BY PREFERENCE), DEPENDING UPON SIZE OF AREA AND EROSION HAZARD:

i. A MULCH ANCHORING TOOL IS AS TRACTOR DRAWN IMPLEMENT DESIGNED TO PUNCH, AND ANCHOR MULCH INTO THE SOIL SURFACE A MINIMUM OF TWO (2) INCHES. THIS PRACTICE IS MOST EFFECTIVE ON LARGE AREAS, BUT IS LIMITED TO FLATTER SLOPES WHERE EQUIPMENT CAN OPERATE SAFELY. IF USED ON SLOPING LAND, THIS PRACTICE SHOULD BE USED ON THE CONTOUR IF POSSIBLE.

WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. THE FIBER BINDER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 POUNDS/ACRE. THE WOOD CELLULOSE FIBER SHALL BE MIXED WITH WATER AND THE MIXTURE SHALL

CONTAIN A MAXIMUM OF 50 POUNDS OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER. iii. APPLICATION OF LIQUID BINDERS SHOULD BE HEAMER AT THE EDGES WHERE WIND CATCHES MULCH, SUCH AS IN VALLEYS AND CREST OF BANKS. THE REMAINDER OF AREA SHOULD BE APPEAR UNIFORM AFTER BINDER APPLICATION. SYNTHETIC BINDERS-SUCH AS ADRYLIC DLR (AGRO-TACK), DCA-70 PETROSET, TERRA TAX II, TERRA TACK AR OR OTHER APPROVED EQUAL MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER TO ANOHOR MULCH.

LIGHTWEIGHT PLASTIC NETTING MAY BE STAPLED OVER THE MULCH ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. NETTING IS USUALLY AVAILABLE IN ROLLS 4' TO 15' FEET WIDE AND 300 TO 3,000 FEET LONG. I. INCREMENTAL STABILIZATION - CUT SLOPES ALL CUT SLOPES SHALL BE DRESSED, PREPARED, SEEDED AND MULCHED AS THE WORK PROGRESSES. SLOPES SHALL BE

EXCAVATED AND STABILIZED IN EQUAL INCREMENTS NOT TO EXCEED 15'. CONSTRUCTION SEQUENCE (REFER TO FIGURE 3 BELOW): a. EXCAVATE AND STABILIZE ALL TEMPORARY SWALES, SIDE DITCHES, OR BERMS THAT WILL BE USED TO CONVEY

RUNOFF FROM THE EXCAVATION.

PERFORM PHASE 1 EXCAVATION, DRESS, AND STABILIZE. PERFORM PHASE 2 EXCAVATION, DRESS, AND STABILIZE. OVERSEED PHASE 1 AREAS AS NECESSARY.

PERFORM FINAL PHASE EXCAVATION, DRESS, AND STABILIZE. OVERSEED PREVIOUSLY SEEDED AREAS NECESSARY. NOTE: ONCE EXCAVATION HAS BEGUN THE OPERATION SHOULD FROM GRUBBING THROUGH THE COMPLETION OF GRADING AND PLACEMENT OF TOPSOIL (IF REQUIRED) AND PERMANENT SEED AND MULCH. ANY INTERRUPTIONS IN THE OPERATION OF COMPLETING THE OPERATION OUT OF THE SEEDING SEASON WILL NECESSITATE THE APPLICATION OF TEMPORARY J. INCREMENTAL STABILIZATION OF EMBANKMENTS - FILL SLOPES

EMBANKMENTS SHALL BE CONSTRUCTED IN LIFTS AS PRESCRIBED ON THE PLANS. SLOPES SHALL BE STABILIZED IMMEDIATELY WHEN THE VERTICAL HEIGHT OF THE MULTIPLE LIFTS REACHES 15". OR WHEN THE GRADING OPERATION CEASES AS PRESCRIBED IN THE PLANS.

AT THE END OF EACH DAY, TEMPORARY BERMS AND PIPE SLOPE DRAINS SHOULD BE CONSTRUCTED ALONG THE TOP EDGE OF THE EMBANKMENT TO INTERCEPT SURFACE RUNOFF AND CONVEY IT DOWN THE SLOPE IN A NON-EROSIVE MANNER TO A SEDIMENT TRAPPING DEVICE.

iv. CONSTRUCTION SEQUENCE: REFER TO FIGURE 4 (BELOW): a. EXCAVATE AND STABILIZE ALL TEMPORARY SWALES. SIDE DITCHES, OR BERMS THAT WILL BE USED TO DIVERT RUNOFF AROUND THE FILL CONSTRUCT SLOPE SILT FENCE ON LOW SIDE OF FILL AS SHOWN IN FIGURE 5,

UNLESS OTHER METHODS SHOWN ON THE PLANS ADDRESS THIS AREA. b. PLACE PHASE 1 EMBANKMENT, DRESS, AND STABILIZE

:. PLACE PHASE 2 EMBANKMENT, DRESS, AND STABILIZE. I. PLACE FINAL PHASE EMBANKMENT, DRESS, AND STABILIZE. OVERSEED PREVIOUSLY SEEDED AREAS AS NECCESSARY. NOTE: ONCE THE PLACEMENT OF FILL HAS BEGUN THE OPERATION SHOULD BE CONTINUOUS FROM GRUBBING THROUGH THE COMPLETION OF AND PLACEMENT OF TOPSOIL (IF REQUIRED) GRADING AND PERMANENT SEED AND MULCH. ANY INTERRUPTIONS IN THE OPERATION OR COMPLETING THE OPERATION UOT OF THE SEEDING SEASON WILL NECESSITATE THE APPLICATION OF TEMPORARY STABILIZATION.

SEDIMENT CONTROL NOTES 1) A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL

DIMISION PRIOR TO THE START OF ANY CONSTRUCTION (313-1855). ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THERETO.

FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN; a) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3:1, b) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

4) ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.

5) ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC. 51), 500 (SEC. 54), TEMPORARY SEEDING (SEC. 50). AND MULCHING (SEC. 52), TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.

. SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE. TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL

7) SITE ANALYSIS: TOTAL AREA OF SITE 5.94 ACRES (FROM RECORD PLAT) AREA TO BE VEGETATIVELY STABILIZED 0.00 ACRES

ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR CONSTRUCTION OF THE WASTEWATER PUMPING STATION, ACCESS DRIVEWAY & UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE. ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY

BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR. 10) ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING, OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INTIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.

11) TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THE THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

SECTION 21:

STANDARD AND SPECIFICATIONS FOR TOPSOIL 1. DEFINITION: PLACEMENT OF TOPSOIL OVER A PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION.

PURPOSE: TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. . SPECIFICATIONS: A. TOPSOIL SHALL BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY

DATE

LOAM, OR LOAMY SAND. B. TOPSOIL SHALL NOT BE A MIXTURE OF CONTRASTING SUBSOILS. C. TOPSOIL SHALL CONTAIN LESS THAN 5% BY VOLUME OF CINDERS, GRAVEL, STICKS,

ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1.5" IN DIAMETER. A. TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED IN A 4"- 8" LAYER AND LIGHT COMPACTED TO A MINIMUM THICKNESS OF 4"; AVOID SURFACE IRREGULARITIES.

8. PLACE TOPSOIL AND APPLY SOIL AMENDMENTS AS SPECIFIED IN "STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION". C. TOPSOIL SHALL NOT BE PLACED DURING FROZEN, MUDDY, OR EXCESSIVELY WET CONDITIONS

Signature of Developer

SEQUENCE OF CONSTRUCTION

. OBTAIN GRADING PERMIT . INSTALL SEDIMENT EROSION CONTROL DEVICES AS SHOWN ON PLAN.

WHICH INCLUDE SUPER SILT FENCE AND TREE PROTECTION, AS WELL A STONE CONSTRUCTION ENTRANCE CLEAR AND GRUB TO LIMITS OF DISTURBANCE . CONSTRUCT BUILDING

I. FINE GRADE SITE AND INSTALL PERMANENT SEEDING AND LANDSCAPE . REMOVE SEDIMENT CONTROL DEVICES AS UPLAND AREAS ARE STABILIZED AND PERMISSION IS GRANTED BY E/S CONTROL INSPECTOR.

5 DAYS 5 DAYS 90 DAYS 7 DAYS 5 DAYS

1 DAY

TEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED. SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED. SOIL AMENOMENTS: APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS. PER 1000 SQ.FT.). SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU NOVEMBER 15. SEED WITH 2-1/2 BUSHELS PER ACRE OF ANNUAL RYE (3.2 LBS. PER 1000 SQ.FT.). FOR THE PERIOD MAY 1 THRU AUQUST 14, SEED WITH 3 LBS. PER ACRE OF WEEPING LOVE GRASS (0.07 LBS. PER 1000 SQ.FT.). FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 20, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL. ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOO. MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS. PER 1000 50.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING, ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 CAL PER ACRE (5 CAL PER 1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES, 8 FT. OR HIGHER, USE 347 GAL. PER ACRE (Ø GAL. PER 1000 5Q.FT.) FOR ANCHORING, REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED. SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF

THE FOLLOWING SCHEDULES 1. PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS. PER 1000 SQ.FT.) AND 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS. PER 1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS. PER 1000 SQ.FT.).

2. ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS. PER 1000 SQ.FT.) AND 1000 LBS. PER ACRE 10-10-10 FERTILIZER (23 LBS. PER 1000 SQ.FT.) BEFORE SEEDING, HARROW OR DISC INTO UPPER THREE INCHES OF SOIL SEEDING: FOR THE PERIOD MARCH 1 THRU APRIL 30 AND FROM AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS. PER ACRE (1.4 LBS. PER 1000 5Q.FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS. KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS. PER ACRE (0.05 LBS. PER 1000 SQ.FT.) OF WEEPING LOVE GRASS. DURING THE PERIOD OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY ONE OF THE FOLLOWING OPTIONS:

2 TONS PER ACRE OF WELL-ANCHORED MULCH STRAW AND SEED AS SOON AS POSSIBLE IN THE SPRING. 3. SEED WITH 60 LBS. PER ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS PER ACRE WELL ANCHORED STRAW. MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS. PER 1000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING, ANOHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GAL PER ACRE (5 GAL PER 1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES, 8 FT. OR HIGHER, USE 347 GAL PER ACRE (8 GAL PER 1000 SQ.FT.) FOR ANCHORING.

REPLACEMENTS AND RESEEDINGS. SITE ANALYSIS DATA CHART

A. TOTAL PROJECT AREA = 5.94 Ac. ±. LIMIT OF DISTURBED AREA = 37,456 Saft. or 0.86 Ac*.

MAINTENANCE : INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS.

PRESENT ZONING DESIGNATION = M-2 (PER 02/02/04 COMPREHENSIVE ZONING PLAN AND THE COMP-LITE ZONING AMENDMENTS DATED 07/20/06). D. PROPOSED USE: OFFICE AND GARAGE

EXISTING BUILDING EXISTING USE: OFFICE AND STORAGE 10,555 Saft. PROPOSED USE: STORAGE

PROPOSED BUILDING PROPOSED USE: OFFICE 5,669 SQFT (FIRST LEVEL 2,325 SQFT + MEZZANINE 3,344 SQFT)
STORAGE 11,775 SQFT

E. FLOOR SPACE OF PROPOSED BUILDING: 17,444 SQ.FT. F. PARKING FOR EXISTING BUILDING IS BASED ON THE ORIGINAL SDP: 4 SPACES PARKING FOR THE PROPOSED BUILDING: 5,669 SQUARE FEET OFFICE (3.3 SPACES/1,000 SQUARE FEET) AND 11,775 SQUARE FEET OF STORAGE (0.5 SPACES/1,000 SQUARE FEET) = 25 SPACES. TOTAL SPACES REQUIRED: 29 SPACES

PARKING PROVIDED: 10 PAVED SPACES AND 19 GRAVEL PARKING LOT SPACES. G. OPEN SPACE ON SITE: N/A RECREATIONAL AREA PROVIDED: N/A

BUILDING COVERAGE OF SITE: 24,655 SQ.FT. OR 0.10% PREVIOUS HOWARD COUNTY FILES: ECP-12-021, WP-12-080, F-12-079

TOTAL AREA OF FLOODPLAIN LOCATED ON SITE: 0.00 Ac. TOTAL AREA OF SLOPES IN EXCESS OF 25% = 0.00 Ac. M. NET TRACT AREA = 5.94 Ac+ (TOTAL SITE AREA - FLOODPLAIN - STEEP SLOPES AREA)

TOTAL AREA OF WETLANDS (INCLUDING BUFFER) = 0.22 Ac+ O. TOTAL AREA OF FOREST = 1.38 Ac. ±

TOTAL GREEN OPEN AREA = 1.13 Ac. * Q. TOTAL IMPERVIOUS AREA = 3.43 Ac. ±

36" MINIMUM LENGTH FENCE POST, 10' MAXIMUM CENTER TO DRIVEN A MINIMUM OF 16" INTO – Center 16" MINIMUM HEIGHT OF GEOTEXTILE CLASS F – 8" MINIMUM DEPTH IN GROUND FLOW FLOW 36" MINIMUM FENCE POST LENGTH PERSPECTIVE VIEW FILTER FENCE POST SECTION CLOTH MINIMUM 20" ABOVE GROUND HAMANAMANANANA UNDISTURBED GROUND -TINTO TINTO TINTO EMBED GEOTEXTILE CLASS F FENCE POST DRIVEN A TOP VIEW A MINIMUM OF 8" VERTICALLY INTO THE GROUND MINIMUM OF 16" INTO THE GROUND CROSS SECTION SECTION B SECTION A STANDARD SYMBOL STAPLE ? JOINING TWO ADJACENT SILT FENCE SECTIONS

CONSTRUCTION SPECIFICATIONS

FLOW RATE

FABRIC HEIGHT.

SHALL NOT EXCEED 10 CENTER TO CENTER

TINTINTINTIN .

FLOW

21/2" DIAMETER

CHAIN LINK FENCING -

FILTER CLOTH

CONSTRUCTION SPECIFICATIONS

ARE NOT REQUIRED EXCEPT ON THE ENDS OF THE FENCE.

SPACED EVERY 24" AT THE TOP AND MID SECTION.

BY 6" AND FOLDED

GEOTEXTILE CLASS F:

TENSILE STRENGTH

TENSILE MODULUS

I. FENOING SHALL BE 42" IN HEIGHT AND CONSTRUCTED IN ACCORDANCE WITH THE

LATEST MARYLAND STATE HIGHWAY DETAILS FOR CHAIN LINK FENCING. THE SPECIFICATION

2. CHAIN LINK FENCE SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH WIRE TIES.

THE LOWER TENSION WIRE, BRACE AND TRUSS ROOS, DRIVE ANCHORS AND POST CAPS

5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED

"BULGES" DEVELOP IN THE SILT FENCE. OR WHEN SILT REACHES 50% OF FENCE HEIGHT.

STAPLES AT TOP AND MID SECTION AND SHALL MEET THE FOLLOWING REQUIREMENTS-FOR

6. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SILT BUILDUPS REMOVED WHEN

50 LBS/IN (MIN.)

20 LB5/IN (MIN.)

7. FILTER CLOTH SHALL BE FASTENED SECURELY TO EACH FENCE POST WITH WIRE TIES OR

FOR A 6' FENCE SHALL BE USED, SUBSTITUTING 42' FABRIC AND 6' LENGTH POSTS.

3. FILTER CLOTH SHALL BE FASTENED SECURELY TO THE CHAIN LINK FENCE WITH TIES

4. FILTER CLOTH SHALL BE EMBEDDED A MINIMUM OF 8' INTO THE GROUND.

I. FENCE POSTS SHALL BE A MINIMUM OF 36" LONG DRIVEN 16" MINIMUM INTO THE GROUND. WOOD POSTS SHALL BE 11/2" X 11/2" SQUARE (MINIMUM) CUT. OR 13/4" DIAMETER (MINIMUM) ROUND AND SHALL BE OF SOUND QUALITY HARDWOOD. STEEL POSTS WILL BE STANDARD 'T' OR 'U' SECTION WEIGHTING NOT LESS THAN 1.00 POUND PER LINEAR FOOT.

0.3 GAL FT.2/ MINUTE (MAX.)

TEST: MSMT 322

34" MINIMUM

" MINIMUM

-8" MINIMUM

2. GEOTEXTILE SHALL FASTENED SECURELY TO EACH FENCE POST WITH WIRE TIES OR STAPLE AT TOP OR MID-SECTION AND SHALL MEET THE FOLLOWING REQUIREMENTS FOR GEOTEXTILE CLASS 'F': TENSILE STRENGTH 50 LBS/IN (MIN.) TEST: MSMT 509 20 LB5/IN (MIN.) TENSILE MODULUS TEST: MSMT 509

FILTERING EFFICIENCY TEST: MSMT 322 75% (MIN.) 3. WHERE ENDS OF GEOTEXTILE FABRIC COME TOGETHER, THEY SHALL BE OVERLAPPED, FOLDED AND STAPLED TO PREVENT SEDIMENT BYPASS 4. SILT FENCE SHALL BE INSPECTED AFTER EACH RAINFALL EVENT AND MAINTAINED WHEN BULGES OCCUR OR WHEN SEDIMENT ACCUMULATION REACHED 50% OF THE

SILT FENCE DESIGN CRITERIA (MAXIMUXAM) (MUMIXAM) SLOPE STEEPNESS SLOPE LENGTH SILT FENCE LENGTH FLATTER THAN 50: UNLIMITED 50:1 TO 10:1 125 FEET 1,000 FFFT 10:1 TO 5: 500 FEE 5:1 TO 3:1 3:1 TO 2:1 250 FEET 2:1 AND STEEPER 20 FEET 125 FEET

NOTE: IN AREAS OF LESS THAN 2% SLOPE AND SANDY SOILS (USDA GENERAL CLASSIFICATION SYSTEM, SOIL CLASS A) MAXIMUM SLOPE LENGTH AND SILT FENCE LENGTH WILL BE unlimited. In these areas a silt fence may be the only perimeter control.

WITH I LAYER OF

filter cloth

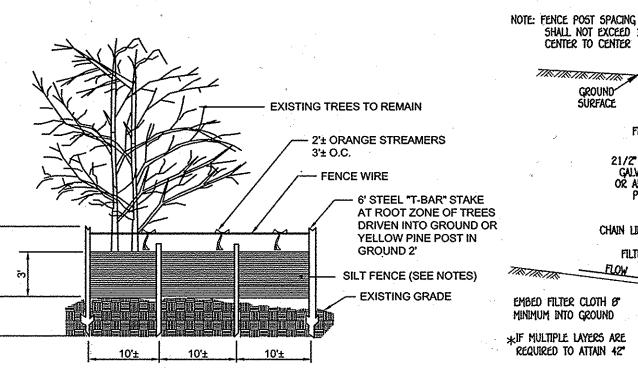
TRANKTRIK

FILTER CLOTH *

TEST: MSMT 509

TEST: MSMT 509

STANDARD SYMBOL



1. SILT FENCE TO BE HEELED INTO THE SOIL. 2. WIRE, SNOW FENCE, ETC. FOR TREE PROTECTION ONLY.

3. BOUNDARIES OF RETENTION AREA WILL BE ESTABLISHED AS PART OF THE FOREST CONSERVATION PLAN REVIEW PROCESS. 4. BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED

PRIOR TO INSTALLING DEVICE. 5. AVOID ROOT DAMAGE WHEN PLACING ANCHOR POSTS 6. DEVICE SHOULD BE PROPERLY MAINTAINED THROUGHOUT CONSTRUCTION.

7. PROTECTION SIGNS ARE ALSO REQUIRED, SEE FIGURE C-4. 8. LOCATE FENCE OUTSIDE THE CRICTICAL ROOT ZONE.

SILT FENCE AND TREE PROTECTION

DEVELOPER'S CERTIFICATION I/WE HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL 8 DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING 3-29-12 う・セオ・ノス Director — Department of Planning and Zoning PARCEL NO. SECTION TAX/ZONE | ELEC. DIST. BLOCK NO. ZONE CENSUS TR. 6069.02 M-2SIXTH SEWER CODE 4020000

FLOW RATE 0.3 GAL/FT²/MINUTE (MAX.) TEST: MSMT 322 FILTERING EFFICIENCY 75% (MIN.) TEST: MSMT 322 design criteria SLOPE SLOPE LENGTH SILT FENCE LENGTH (MAXIMUM) (Maximum) 0 - 10% 0 - 10:110 - 20% 10:1 - 5:1 200 FEET 1,500 FEET 5:1 - 3:1 20 - 33% 100 FEET 1.000 FEFT 500 FEET 33 - 50% 3:1 - 2:1 50% + 2:1 + 50 FEET 250 FEET SUPER SILT FENCE REVISED.

PROFILE, DETAILS & NOTES SHEET

VERMEER SALES AND SERVICE INC.

PROPOSED BUILDING TAX MAP NO.: 48 GRID NO.: 13 PARCEL NO.: 106 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND SCALE: AS SHOWN DATE: JANUARY, 2012 SHEET 5 OF 6

5DP-88-199

FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS revisions associated with addition of New Building (REVISION

ENGINEER'S CERTIFICATE sion and sediment control represents a practical and workable viedge of the site conditions and that it was prepared in s of the Howard Soil Conservation District." ALDO M. VITUCCI DIBURDER/DEVELOPER'S CERTIFICATE "I/We certify that all development and construction will be done according to this plan and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and

the HOWARD SOIL CONSERVATION DISTRICT.

DEVELOPER OWNER JOHN L. VOS, TRUSTEE 8830 CORRIDOR ROAD HOWARD COUNTY, MARYLAND 21042

410-701-7575

Erosion before beginning the project. I also authorize periodic on-site inspection by the Heward Soil Conservation District."

RASMUSSEN CONSTRUCTION SERVICES, INC. 614 KLEES MILL ROAD WESTMINSTER, MD 21157

This development plan is approved for soil erosion and sediment control by

PROJECT ANNAPOLIS JUNCTION PARCEL 106 1621 784 WATER CODE 400

