

21.0 STANDARDS AND SPECIFICATIONS FOR TOPSOIL

DEFINITION: PLACEMENT OF TOPSOIL OVER A PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION. PURPOSE: TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETABLE GROWTH...

PLANT LIST table with columns: QTY, BOTANICAL NAME/Common Name, SIZE, ROOT. Entry: ACER RUBRUM 'OCTOBER GLORY'...

SOILS LEGEND table with columns: SYMBOL, NAME/DESCRIPTION, GROUP. Entry: SANDY & CLAYEY LAND, GENTLY SLOPING...

OWNER/DEVELOPER CERTIFICATE: I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL...

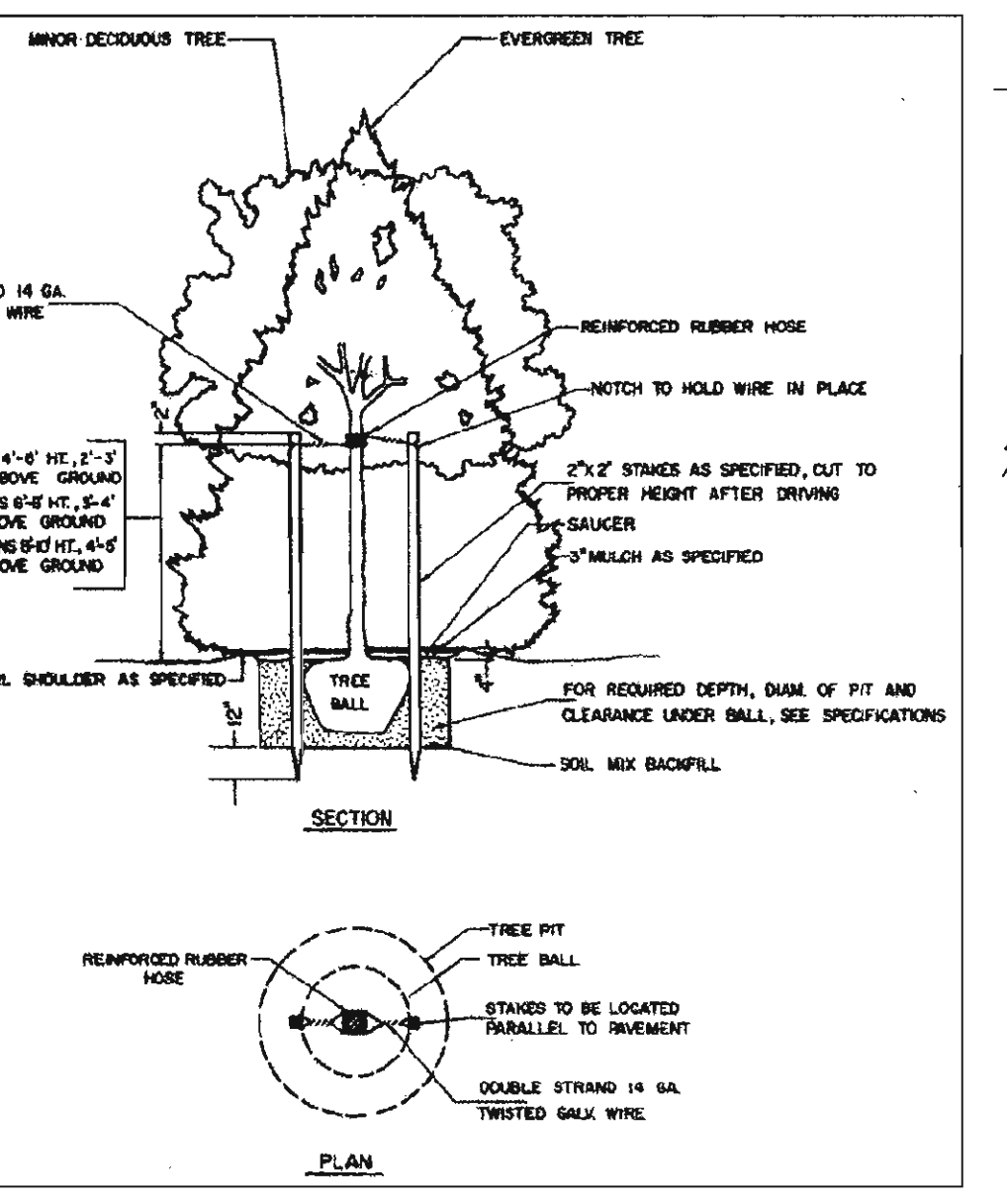
ENGINEER'S CERTIFICATE: I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS...

Professional stamps and signature for W. DUVALL & ASSOCIATES, INC. ENGINEERS - SURVEYORS - LAND PLANNERS...

SEDIMENT CONTROL NOTES

- 1. A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTION LICENSE AND PERMITS SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (313-1855)...

SCHEDULE A PERIMETER LANDSCAPE EDGE table with columns: CATEGORY, ADJACENT TO ROADWAYS, ADJACENT TO PERMETER PROPERTIES, ADJACENT TO PERMETER PROPERTIES, ADJACENT TO PERMETER PROPERTIES...



TREE PLANTING AND STAKING

N.T.S. I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16124 OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS...

DEVELOPER'S/BUILDER'S CERTIFICATE: I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16124 OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS...

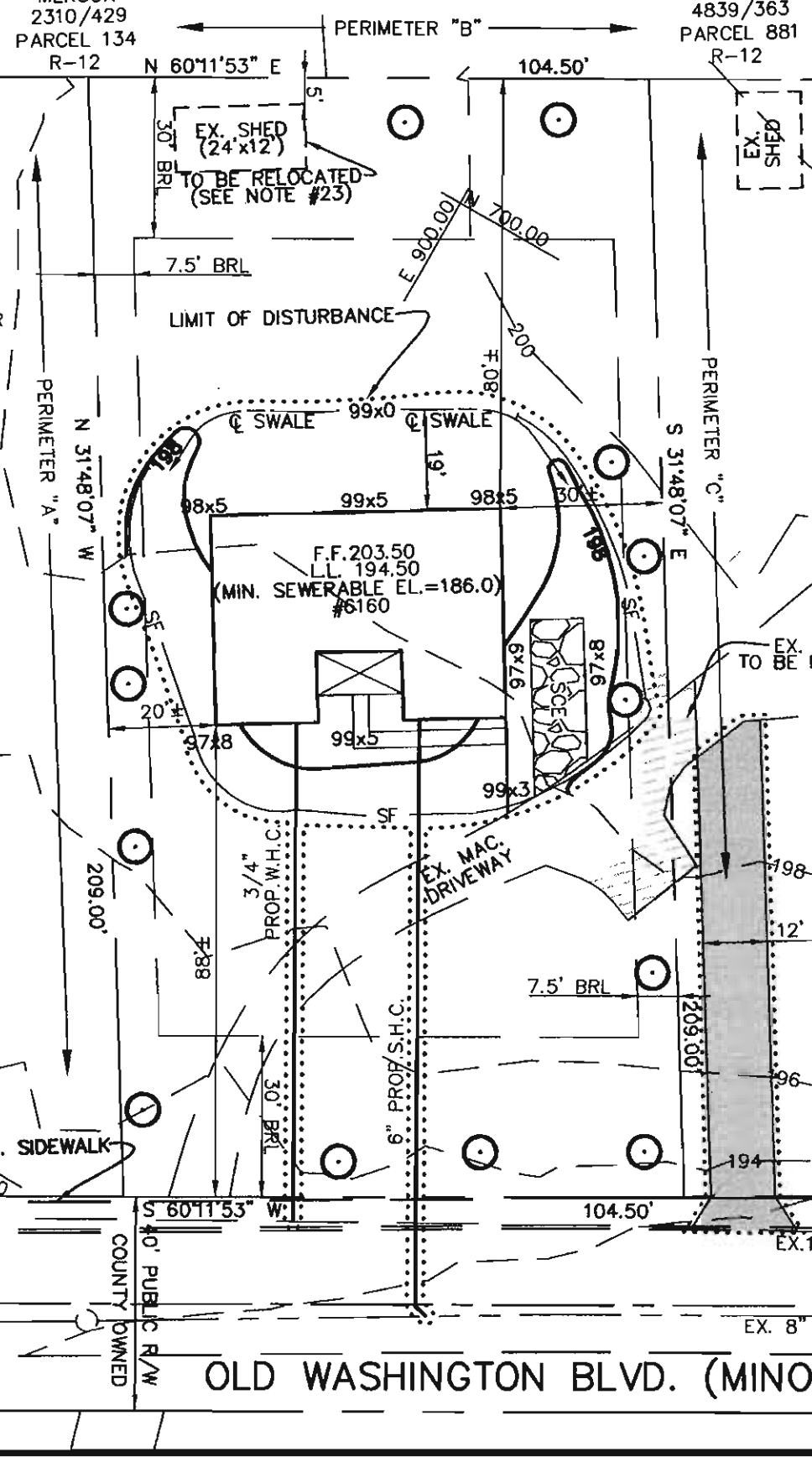
Professional stamps and signatures for approval by HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING and DEVELOPER'S/BUILDER'S CERTIFICATE.

PERMANENT SEEDING NOTES:

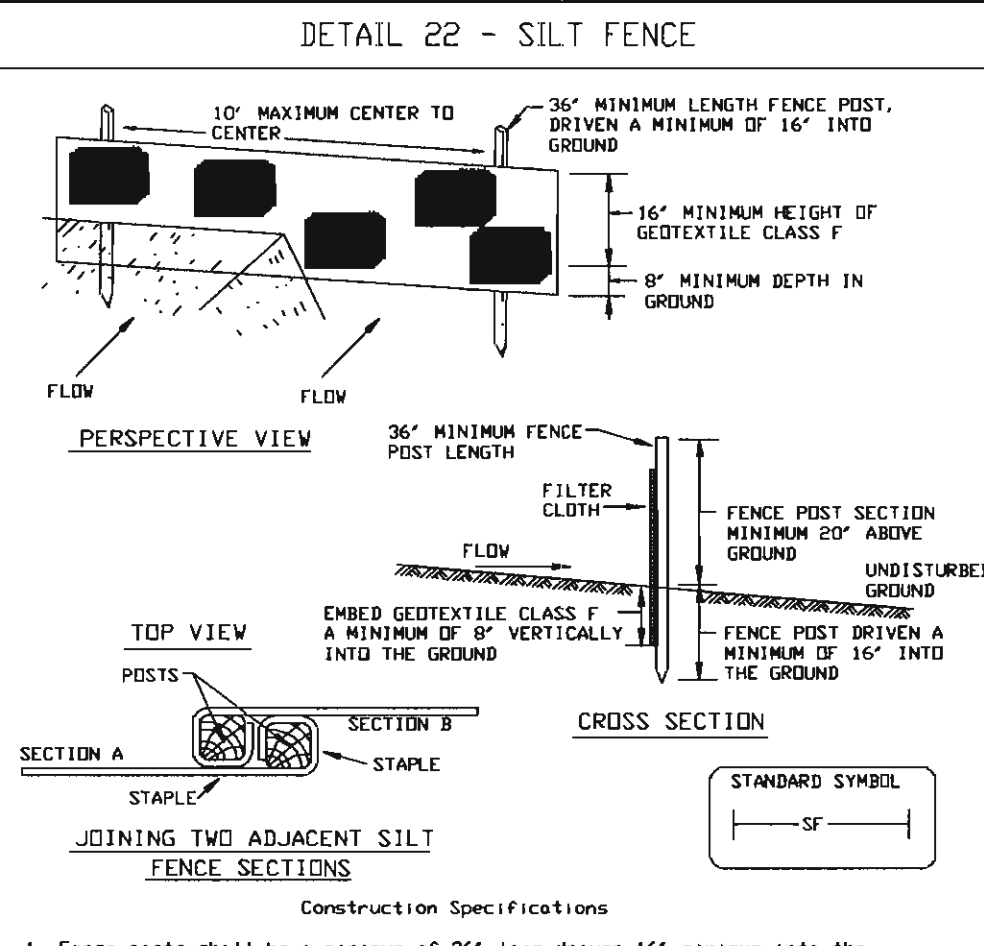
- APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED. SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING...

TEMPORARY SEEDING NOTES

SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSEND.



Professional stamps and signatures for approval by HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING and DEVELOPER'S/BUILDER'S CERTIFICATE.



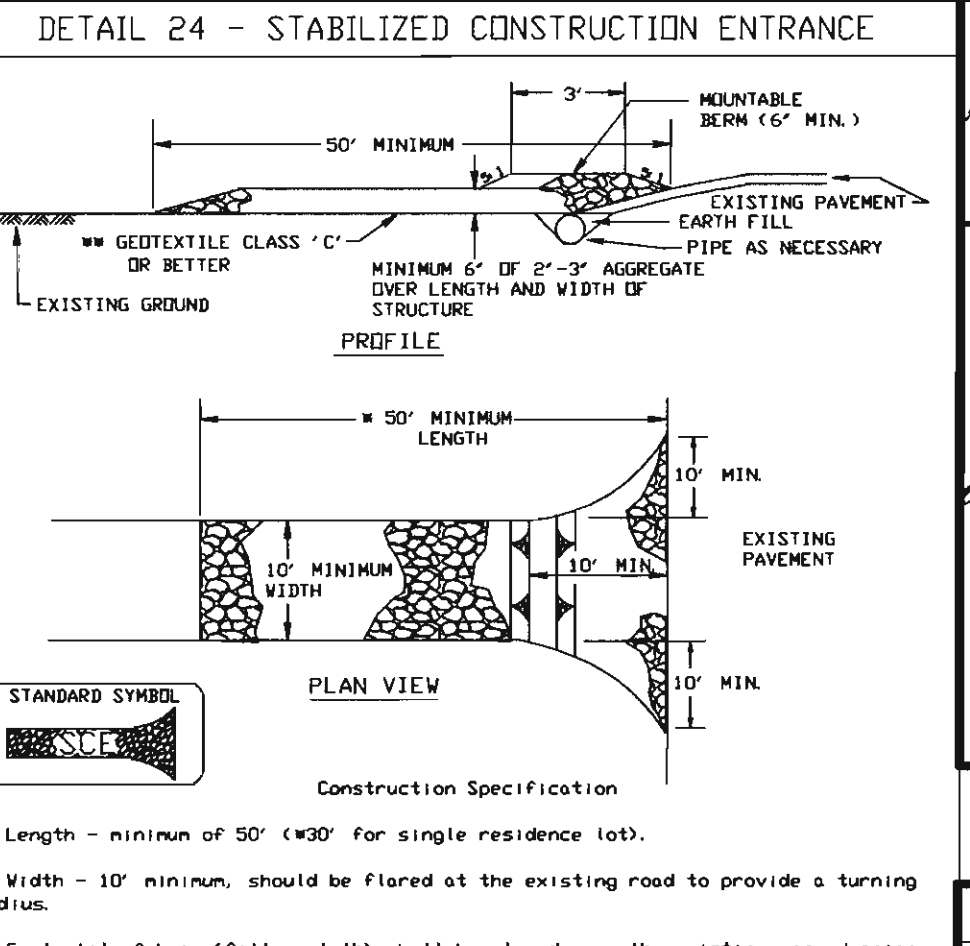
- 1. Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum cut, or 1 3/4" diameter minimum round and shall be of sound quality hardwood. Steel posts will be standard 1 or U section weighting not less than 1.00 pound per linear foot.

SEQUENCE OF CONSTRUCTION: 1. OBTAIN GRADING PERMIT. 2. NOTIFY HOWARD COUNTY BUREAU OF INSPECTIONS AND PERMITS 48 HOURS PRIOR TO ANY EXCAVATION WORK.

- 1. CONTRACTOR SHALL NOTIFY 'MISS UTILITY' AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK. 2. CONTRACTOR IS TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK ON THESE DRAWINGS:

GENERAL NOTES

- 1. THE CONTRACTOR SHALL NOTIFY 'MISS UTILITY' AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK. 2. THE CONTRACTOR IS TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK ON THESE DRAWINGS:



BENCHMARKS table with columns: NO., NORTHING, EASTING, ELEVATION. Entries for 38AA and 38BA.

LEGEND: -200- EXISTING 10 FT. CONTOUR, -198- EXISTING 2 FT. CONTOUR, --- PROPOSED CONTOUR, - - - - - LIMIT OF DISTURBANCE, - - - SILT FENCE, - - - STABILIZED CONST. ENTRANCE, ( ) PROPOSED TREE.

SITE ANALYSIS DATA CHART

SITE ANALYSIS DATA CHART table with columns: TOTAL PROJECT AREA, AREA OF PLAN SUBMISSION, LIMIT OF DISTURBED AREA, PRESENT ZONING, etc.

PERMIT INFORMATION CHART table with columns: PROJECT NAME, SECTION/AREA, PARCEL NUMBER, DEED REF., etc.

ADDRESS CHART table with columns: PARCEL #, STREET ADDRESS. Entries for 328 and 962 parcels.

SHEET INDEX table with columns: NO., REVISION, DATE.

SITE DEVELOPMENT PLAN for CHOLAK PROPERTY, 6160 OLD WASHINGTON BLVD., PROPOSED IMPROVEMENT TO PROPERTY.

**21.0 STANDARDS AND SPECIFICATIONS FOR TOPSOIL**

**DEFINITION:** PLACEMENT OF TOPSOIL OVER A PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION.  
**PURPOSE:** TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETABLE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.  
**CONSTRUCTION REQUIREMENTS:**  
 I. THIS PRACTICE IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:  
 A. THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.  
 B. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.  
 C. THE ORIGINAL SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.  
 II. FOR THE PURPOSE OF THESE STANDARDS AND SPECIFICATIONS, AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN FOR ADEQUATE STABILIZATION. AREAS HAVING SLOPES STEEPER THAN 2:1 SHALL HAVE THE APPROPRIATE STABILIZATION SHOWN ON THE PLANS.  
**CONSTRUCTION AND MATERIAL SPECIFICATIONS:**  
 I. TOPSOIL SALVAGED FROM THE STABILIZED SITE MAY BE USED PROVIDED THAT IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA - NRCS IN CONJUNCTION WITH MARYLAND AGRICULTURAL EXPERIMENTAL STATION.  
 II. TOPSOIL SPECIFICATIONS-SOIL TO BE USED AS A TOPSOIL MUST MEET THE FOLLOWING:  
 A. TOPSOIL SHALL BE A LOAM, SANDY LOAM, CLAY LOAM, CLAY LOAM, OR OTHER SOILS AS SPECIFIED.  
 B. SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR A SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. REGARDLESS, SUBSOILS SHALL CONTAIN LESS THAN 5% BY VOLUME OF CHALK, STONES, SLAG, COARSE FRAGMENTS OF BRICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1" AND 1/2" IN DIAMETER.  
 C. TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACKGRASS, JOHNSON GRASS, NUISANCE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.  
 D. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 4-8 TONS/ACRE (200-400 POUNDS PER 1000 SF.) PRIOR TO THE PLACEMENT OF TOPSOIL. LIME SHALL BE DISTRIBUTED UNIFORMLY OVER DESIGNATED AREAS AND WORKED INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURES.  
 III. FOR SITES HAVING DISTRIBUTED AREAS UNDER 5 ACRES:  
 IV. FOR SITES HAVING DISTRIBUTED AREAS OVER 5 ACRES:  
 A. ON SOIL MEETING TOPSOIL SPECIFICATIONS, OBTAIN TEST RESULTS DICTATING AMENDMENTS REQUIRED TO BRING THE SOIL INTO COMPLIANCE WITH THE FOLLOWING:  
 B. PH FOR TOPSOIL SHALL BE BETWEEN 6.0 AND 7.5 IF THE TESTED SOIL DEMONSTRATES A PH OF LESS THAN 6.0, SUFFICIENT LIME SHALL BE PRESCRIBED TO RAISE THE PH TO 6.5 OR HIGHER.  
 C. ORGANIC CONTENT OF TOPSOIL SHALL BE NOT LESS THAN 1.5 PERCENT BY WEIGHT.  
 D. TOPSOIL HAVING SOLUBLE SALT CONTENT GREATER THAN 500 PARTS PER MILLION SHALL NOT BE USED.  
 E. NO SOIL OR SEED SHALL BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STABILIZER OR CHEMICALS USED FOR WEED CONTROL UNTIL SUFFICIENT TIME HAS ELAPSED (14 DAYS MIN.) TO PERMIT DISSIPATION OF PHYTO-TOXIC MATERIALS.  
 NOTE: TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF NATURAL TOPSOIL.  
 V. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS DESCRIBED IN 20.0 VEGETATIVE STABILIZATION-SECTION 1-VEGETATIVE STABILIZATION METHODS AND MATERIALS.  
 VI. TOPSOIL APPLICATION  
 A. WHEN TOPSOILING, MAINTAIN NEEDED EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, EARTH DIKES, SLOPE SILT FENCE AND SEDIMENT TRAPS AND BASINS.  
 B. GRADES ON THE AREAS TO BE TOPSOILED, WHICH HAVE BEEN PREVIOUSLY ESTABLISHED, SHALL BE MAINTAINED, ALBERT 4"-8" HIGHER IN ELEVATION.  
 C. TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED IN A 4"-8" LAYER AND LIGHTLY COMPACTED TO A MINIMUM THICKNESS OF 4". SPREADING SHALL BE PERFORMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.  
 D. TOPSOIL SHALL NOT BE IN PLACE WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDING PREPARATION.

**SEDIMENT CONTROL NOTES**

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTION, LICENSE AND PERMITS SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (313-1855).
- ALL VEGETATION AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1984 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THEREOF.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: (A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3:1; (B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THE PERIMETER IN ACCORDANCE WITH VOL. 1, CHAP. 7, HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- 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, SOIL TEMPORARY SEEDING, AND MULCHING (SEC. 6). TEMPORARY STABILIZATION WITH MULCH ALONE SHALL BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES. ALL 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 INSPECTOR.
- ESTIMATES OF EARTHWORK QUANTITIES ARE PROVIDED SOLELY FOR THE PURPOSE OF CALCULATING FEES TO BE DETERMINED BY CONTRACTOR, WITH PRE-APPROVAL OF THE SEDIMENT CONTROL INSPECTOR WITH AN APPROVED AND ACTIVE GRADING PERMIT.

**PERMANENT SEEDING NOTES:**

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.  
 SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSED.  
 SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:  
 1) PREFERABLY APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS./100 SF) AND 800 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./100 SF) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL AT THE TIME OF SEEDING. APPLY 400 LBS. PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS./1000 SF).  
 2) PREFERABLY APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS./1000 SF) AND APPLY 1000 LBS. PER ACRE 10-10-10 FERTILIZER (23 LBS./1000 SF) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.  
 SEEDING: FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUG 1 THRU OCT 15, SEED WITH 60 LBS. PER ACRE (14 LBS./1000 SF) 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 (0.9 LBS./1000 SF) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCT 16 THRU FEB 28, PROTECT SITE BY OPTION (1) 2 TONS PER ACRE WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOD. OPTION (3) SEED WITH 60 LBS./ACRE KENTUCKY TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.  
 MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SF) OF UNROTTED SMALL GRAIN IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GAL PER ACRE (5 GAL/1000 SF) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES 8:1 FT. OR HIGHER, USE 348 GAL PER ACRE (8 GAL/1000 SF) FOR ANCHORING.  
 MAINTENANCE: INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS, AND RESEEDING.

**TEMPORARY SEEDING NOTES**

SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSED.  
 SOIL AMENDMENTS: APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SF).  
 SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUG 15 THRU NOV 15, SEED WITH 2 1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS./1000 SF) FOR THE PERIOD MAY 1 THRU AUG 14, SEED WITH 3 LBS. PER ACRE OF WEEPING LOVEGRASS (0.7 LBS./1000 SF). FOR THE PERIOD NOV 1 THRU FEB 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.  
 MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SF) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GAL PER ACRE (5 GAL/1000 SF) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES 8:1 FT. OR HIGHER, USE 348 GAL PER ACRE (8 GAL/1000 SF) FOR ANCHORING.  
 REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

**SCHEDULE A PERIMETER LANDSCAPE EDGE**

CATEGORY	ADJACENT TO ROADWAYS	ADJACENT TO PERIMETER PROPERTIES	ADJACENT TO PERIMETER PROPERTIES	ADJACENT TO PERIMETER PROPERTIES
LANDSCAPE TYPE	N/A	TYPE "A"	TYPE "A"	TYPE "A"
LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER	N/A	209 (A)	104.5 (B)	209 (C)
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	N/A	NO	NO	NO
CREDIT FOR WALL, FENCE, OR BERM (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	N/A	NO	NO	NO
NUMBER OF PLANTS REQ'D. SHADE TREES EVERGREEN TREES SHRUBS	N/A N/A N/A N/A	4 0 0 0	2 0 0 0	4 0 0 0
NUMBER OF PLANTS PROVIDED SHADE TREES EVERGREEN TREES OTHER TREES (2:1 SUBSTITUTION) SHRUBS (10:1 SUBSTITUTION) (DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED)	3 N/A N/A N/A	4 0 0 0	2 0 0 0	4 0 0 0

**PLANT LIST**

QTY	BOTANICAL NAME/COMMON NAME	SIZE	ROOT
13	ACER RUBRUM 'OCTOBER GLORY'/OCTOBER GLORY RED MAPLE	2 1/2" - 3" CAL.	B&B

**SOILS LEGEND**

SYMBOL	NAME/DESCRIPTION	GROUP
ScB	SANDY & CLAYEY LAND, GENTLY SLOPING	'B'

**OWNER/DEVELOPER CERTIFICATE**  
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION 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.  
 JACK T. CHOLAK  
 DATE: 10-5-04

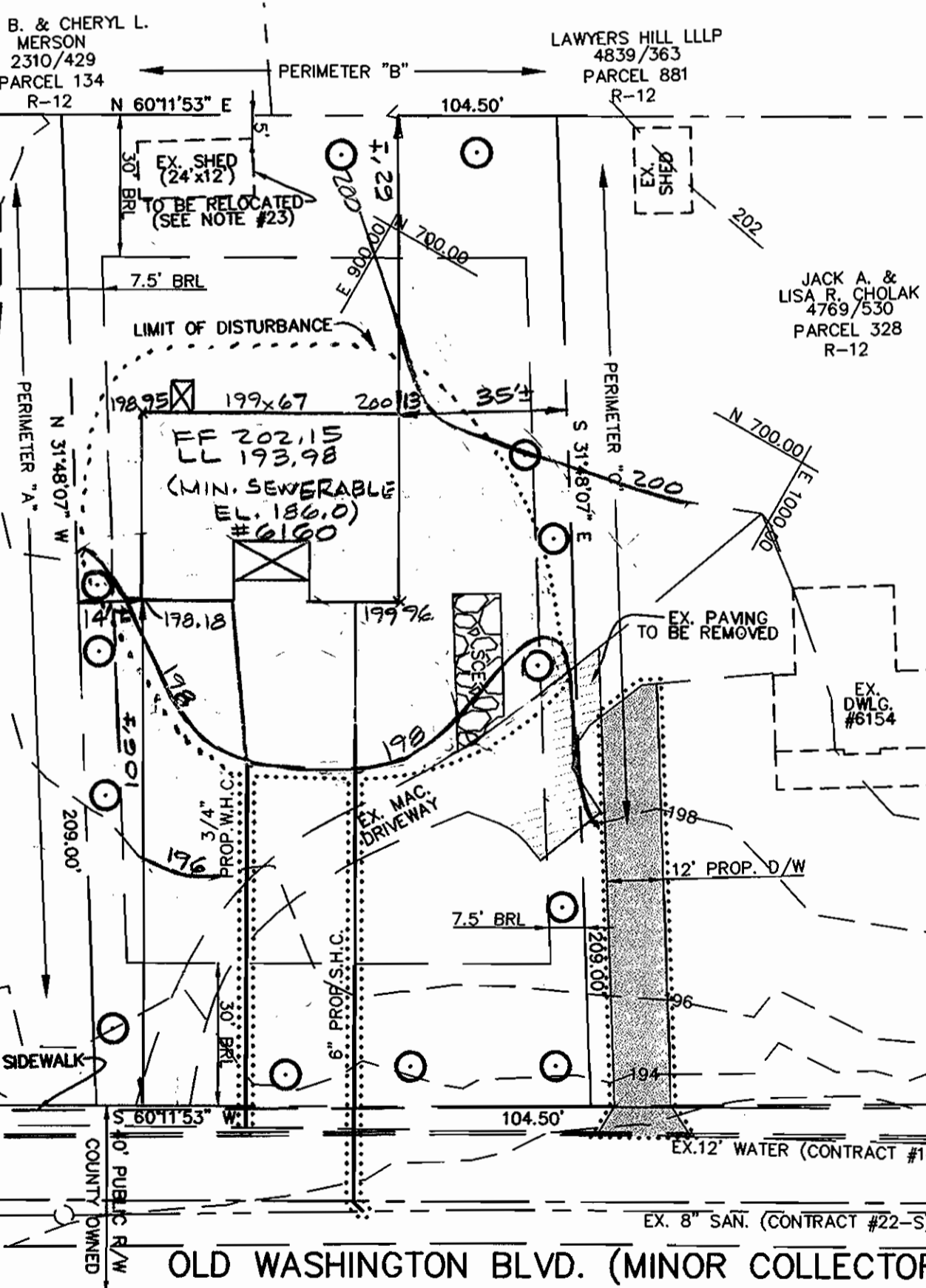
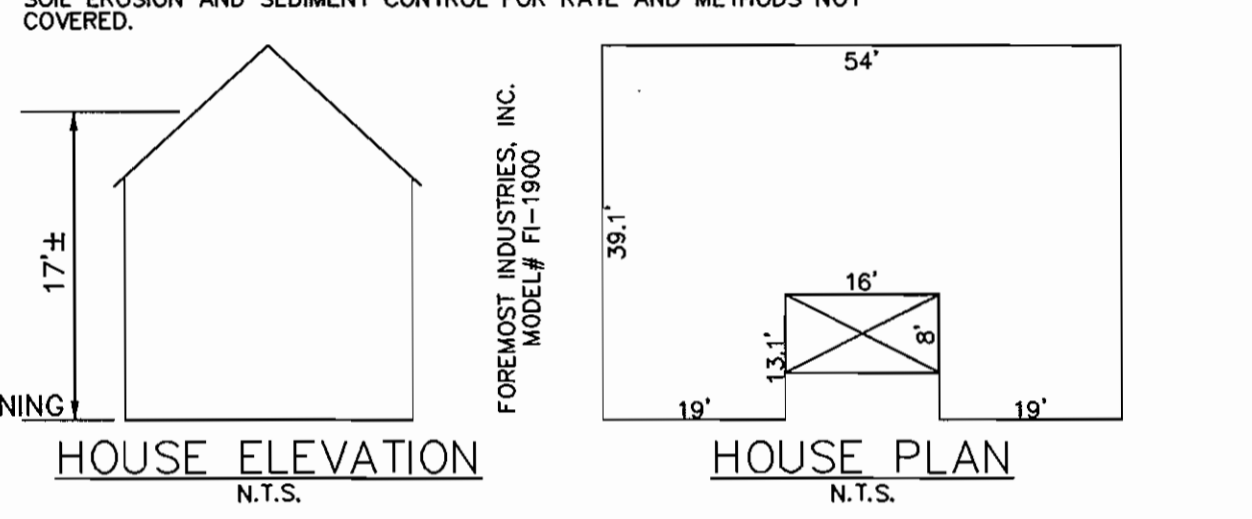
**ENGINEER'S CERTIFICATE**  
 I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.  
 W. DUVALL, JR., PE# 12906  
 DATE: 10/1/04

**W. DUVALL & ASSOCIATES, INC.**  
 ENGINEERS . SURVEYORS . LAND PLANNERS  
 530 EAST JOPPA ROAD  
 TOWSON, MARYLAND 21286  
 Phone: 410.583.9571  
 E-mail: wduvall2@verizon.net



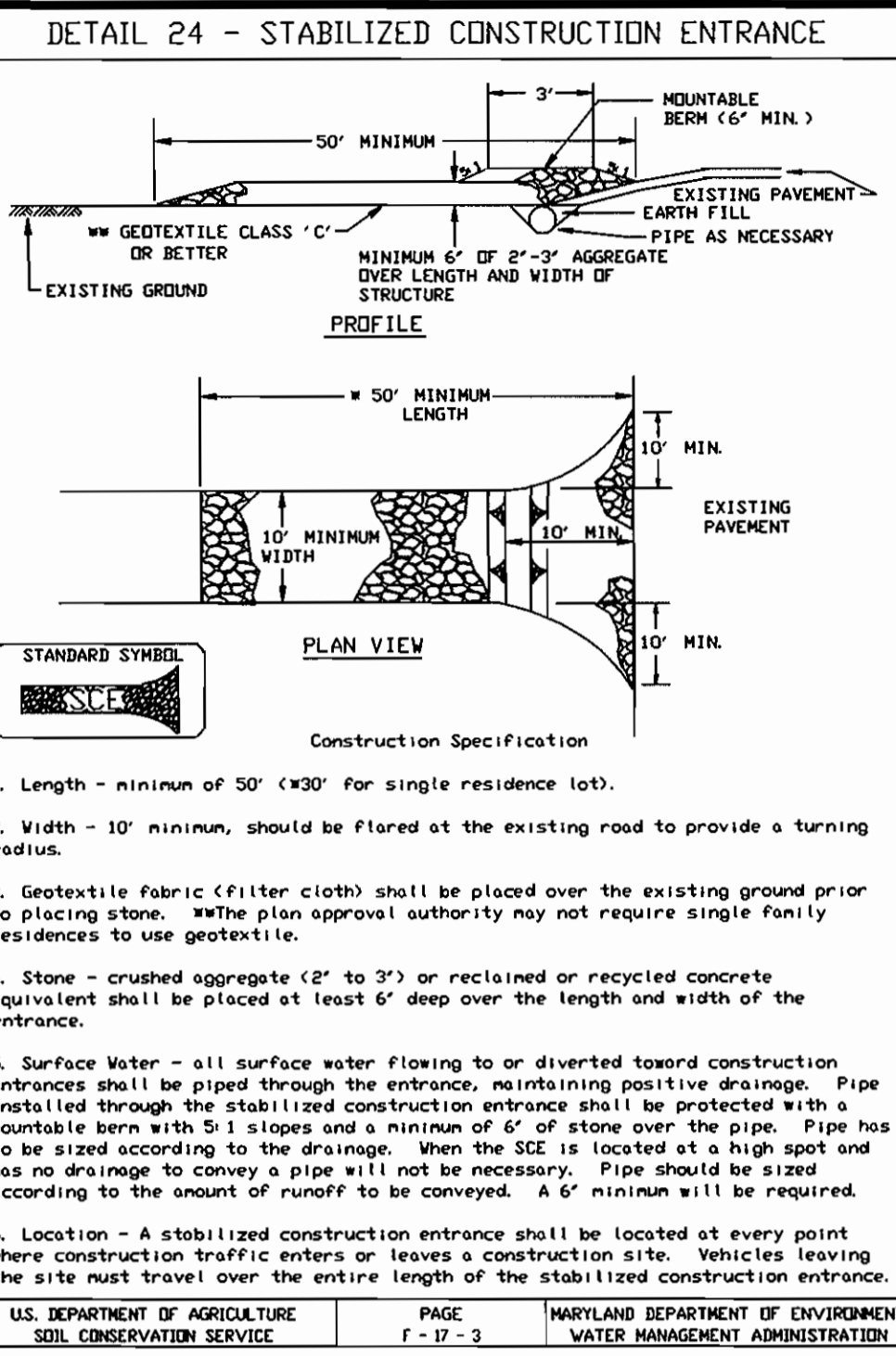
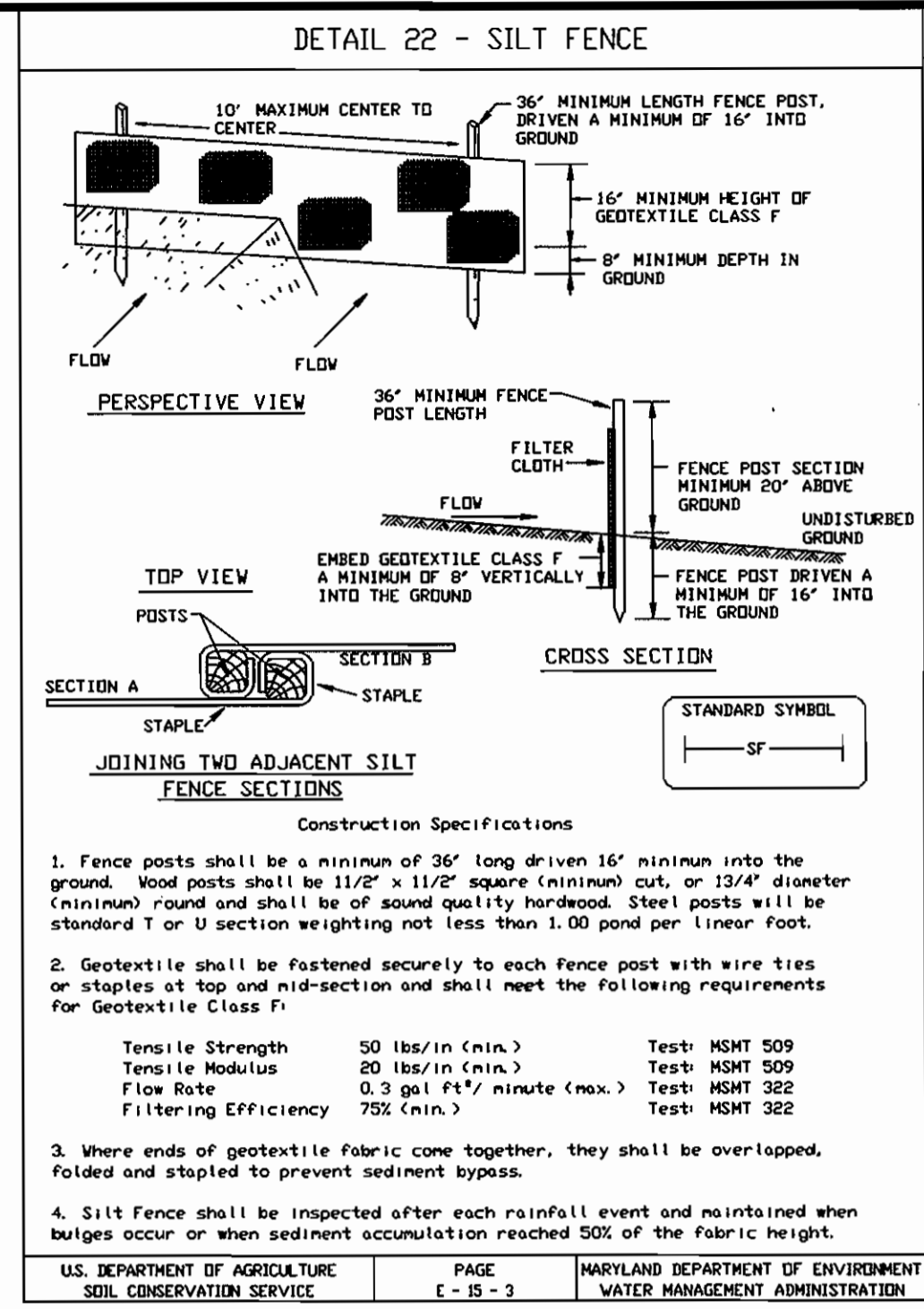
**DEVELOPER'S/BUILDER'S CERTIFICATE**  
 I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION, A LETTER OF NOTICE OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.  
 DATE: 10-5-04

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
 DATE: 10/20/04



REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS  
 DATE: 10/20/04

THIS DEVELOPMENT PLAN IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 DATE: 10/20/04



**SEQUENCE OF CONSTRUCTION**

- OBTAIN GRADING PERMIT.
- NOTIFY HOWARD COUNTY BUREAU OF INSPECTIONS AND PERMITS (410-313-1880) AT LEAST 24 HOURS BEFORE STARTING ANY WORK.
- CONSTRUCT STABILIZED CONSTRUCTION ENTRANCES (1 DAY).
- INSTALL SILT FENCE (1 DAY).
- CONSTRUCT PERIMETER SEDIMENT CONTROL STRUCTURES (2 DAYS).
- CONSTRUCT HOUSE. THE FIRST FLOOR ELEVATION CANNOT BE MORE THAN 1" HIGHER OR 0.2" LOWER THAN THE ELEVATION SHOWN ON THIS PLAN. THE FOUNDATION FOOTPRINT MUST BE THE SAME AS THE GENERIC BLOCK FOUNDATION (MOUNTAIN). UPON STABILIZATION OF ALL DISTURBED AREAS AND WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, REMOVE ALL SEDIMENT CONTROL DEVICES.
- DURING GRADING AND AFTER EACH RAINFALL, THE CONTRACTOR SHALL INSPECT AND PROVIDE THE NECESSARY MAINTENANCE ON THE SEDIMENT AND EROSION CONTROL MEASURES.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN.

**GENERAL NOTES**

- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
- THE CONTRACTOR IS TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK ON THESE DRAWINGS:  
 1-800-257-7777  
 725-9976  
 4839/363  
 393-3553  
 850-4820  
 787-4620  
 531-5533
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT 410-313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO START OF WORK.
- ANY DAMAGE TO PUBLIC UTILITIES, OR EXISTING UTILITIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- EXISTING UTILITIES LOCATED FROM ROAD CONSTRUCTION PLANS AND AVAILABLE CONSTRUCTION DRAWINGS APPROXIMATELY PASSING 100 FEET FROM THE PERIMETER OF THE PROJECT SHALL BE MAINTAINED AND PROTECTED. THE CONTRACTOR SHALL LOCATE EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE OF ANY ASPHALT.
- TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- IN ACCORDANCE WITH SECTION 128 OF THE HOWARD COUNTY ZONING REGULATIONS, BAY WINDOWS, CHIMNEYS, OR EXTERIOR STAIRWAYS NOT MORE THAN 16 FEET IN WIDTH MAY PROJECT BEYOND THE FRONT YARD SETBACK. ALL OTHER EXTERIOR STAIRWAYS, OPEN OR ENCLOSED MAY PROJECT NOT MORE THAN 10 FEET INTO THE FRONT OR REAR YARD SETBACK.
- DRIVEWAYS SHALL BE PROVIDED PRIOR TO RESIDENTIAL OCCUPANCY TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:  
 A) WIDTH-12 FEET (14 FEET IF SERVING MORE THAN ONE RESIDENCE)  
 B) SURFACE-6 INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING.  
 C) GEOMETRY-MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CROSS, AND MINIMUM 45 FOOT TURNING RADIUS.
- STRUCTURES (CULVERTS/BRIDGES)-MUST SUPPORT 25 GROSS TON LOADING (H25 LOADING) AND BE MAINTAINED SUFFICIENT TO INSURE ALL WEATHER USE.
- THE SUBJECT PROPERTY IS ZONED R-12 PER THE FEB. 2, 2004 COMPREHENSIVE ZONING PLAN. COORDINATES AND ELEVATIONS ARE BASED ON HOWARD COUNTY MONUMENT NOS. 38AA AND 38BA.
- THE PROJECT BOUNDARY IS BASED ON A BOUNDARY SURVEY PERFORMED BY W. DUVALL & ASSOC. DATED JUNE 2003.
- ACCESS TO PUBLIC WATER HAS BEEN PROVIDED UNDER CONTRACT NO. 1-W. ACCESS TO PUBLIC SEWER HAS BEEN PROVIDED UNDER CONTRACT NO. 22-5.
- NO BURIED GROUNDS OR CEMETERIES ARE LOCATED ON THIS PROPERTY.
- NO STREAMS OR WETLANDS EXIST ON SITE.
- NO 100 YEAR FLOODPLAINS EXIST ON SITE.
- FOR DRIVEWAY ENTRANCE DETAILS REFER TO THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD DETAIL R-606 (OPEN SECTION).
- THIS PROJECT IS EXEMPT FROM THE REQUIREMENTS OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION IN ACCORDANCE WITH SECTION 16.1202.(b),(1),(i) BECAUSE IT IS THE DEVELOPMENT OF LAND LESS THAN 40,000 SQUARE FEET.
- THIS PROJECT IS EXEMPT FROM THE REQUIREMENTS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL FINANCIAL SURETY FOR THE REQUIRED THIRTEEN (13) SHADE TREES IN THE AMOUNT OF \$3,900.00 IS PART OF THE BUILDER'S GRADING PERMIT APPLICATION FOR THIS PARCEL.
- STORMWATER MANAGEMENT IS NOT REQUIRED FOR THE SUBJECT PROPERTY AS THE SITE IS CURRENTLY LAWN AND A TOTAL OF 3000 SF IS PROPOSED TO BE CHANGED TO IMPERVIOUS COVER, WHICH IS LESS THAN THE 5000 SF. THRESHOLD REQUIRING STORMWATER MANAGEMENT.
- THIS PLAN IS SUBJECT TO THE AMENDED 5TH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS PER COUNCIL BILL 45-2003 AND THE ZONING REGULATIONS AS AMENDED BY COUNCIL BILL 45-2003 AND THE ZONING REGULATIONS AS AMENDED BY COUNCIL BILL 45-2003 AND THE ZONING REGULATIONS AS AMENDED BY COUNCIL BILL 45-2003. THE PROJECT SHALL COMPLY WITH SETBACK AND BUFFER REGULATIONS IN EFFECT AT THE TIME OF SUBMISSION OF THE SITE DEVELOPMENT OR BUILDING/GRADING PERMIT.
- THE PROJECT IS EXEMPT FROM THE REQUIREMENTS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL FINANCIAL SURETY FOR THE REQUIRED THIRTEEN (13) SHADE TREES IN THE AMOUNT OF \$3,900.00 IS PART OF THE BUILDER'S GRADING PERMIT APPLICATION FOR THIS PARCEL.
- EXISTING SHED TO BE RELOCATED TO A MINIMUM OF TEN FEET (10') FROM THE REAR PROPERTY LINE TO CONFORM WITH ZONING REGULATIONS.
- THIS PROJECT WITHIN THE EIM APPROVED ZONING DISTRICT.
- APPROVAL BY MAA PERMIT NO. 04-102 DATED 9/3/04, NO CONDITIONS REQUIRED.

OWNER/DEVELOPER  
 JACK T. CHOLAK  
 BETTY J. CHOLAK  
 9085 THAMESMEADE RD. APT. A  
 LAUREL, MD. 20723-5810  
 DEED REF. 4828/498

**LEGEND**

- EXISTING 10 FT. CONTOUR
- EXISTING 2 FT. CONTOUR
- PROPOSED CONTOUR
- LIMIT OF DISTURBANCE
- SILT FENCE
- STABILIZED CONST. ENTRANCE
- PROPOSED TREE

**SITE ANALYSIS DATA CHART**

TOTAL PROJECT AREA	AREA OF PLAN SUBMISSION	LIMIT OF DISTURBED AREA	PRESENT ZONING
21840 S.F. (0.50 AC.)	21840 S.F. (0.50 AC.)	7195 S.F. (0.17 AC.)	R-12
PROPOSED USE	TYPE OF UNIT	TOTAL UNITS ALLOWED	TOTAL UNITS PROPOSED
RESIDENTIAL	SINGLE FAM. DETACHED	1	1
OPEN SP. REQ'D.	OPEN SP. PROV.	RECREATION OPEN SP. REQ'D.	RECREATION OPEN SP. PROVIDED
N/A	N/A	N/A	N/A

DPZ FILE REF.: SDP-04-116 DEED REF.: 4828/498

**PERMIT INFORMATION CHART**

PROJECT NAME	SECTION/AREA	PARCEL NUMBER
CHOLAK PROPERTY	N/A	962
DEED REF.	BLOCK NO.	ZONE
4828/498	9	R-12
TAX MAP	ELECT. DIST.	CENSUS TR.
38	1ST	6012.01
WATER CODE: A01801	SEWER CODE: 2023400	

**ADDRESS CHART**

PARCEL #	STREET ADDRESS
328	6154 OLD WASHINGTON BLVD., ELKRIDGE, MD. 21075
962	6160 OLD WASHINGTON BLVD., ELKRIDGE, MD. 21075

**SHEET INDEX**

DESCRIPTION	SHEET NO.
SITE DEVELOPMENT PLAN	1

**REVISIONS**

NO.	REVISION	DATE
1	AS-BUILT CONDITIONS	6/28/05

**SITE DEVELOPMENT PLAN**  
**CHOLAK PROPERTY**  
 6160 OLD WASHINGTON BLVD.  
 PROPOSED IMPROVEMENT TO PROPERTY:  
 SINGLE FAMILY DWELLING PARCEL 962 DEED REF. 4828/498 & DRIVEWAY CONSTRUCTION PARCEL 328 DEED REF. 4769/530  
 TAX MAP 38 GRID 9  
 COUNCILMANIC DISTRICT 1  
 ELECTION DISTRICT 1 HOWARD COUNTY, MARYLAND  
 SCALE : 1"=30' DATE : SEPTEMBER 28, 2004  
 SHEET 1 OF 1  
 SDP-04-116