



LEGEND

- EXISTING CONTOURS
- PROPOSED CONTOURS
- EXISTING STREAM
- EXISTING TREELINE
- EXISTING VEGETATION TO REMAIN PER F-99-147 ROAD DRAWINGS
- LIMIT OF SUBMISSION
- INDICATES A WALK-OUT BASEMENT
- FOREST CONSERVATION EASEMENT
- EXISTING PERIMETER LANDSCAPE TREE INSTALLED UNDER F-99-147
- PROPOSED PERIMETER LANDSCAPE TREE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chris Deamus 5/30/00 DATE
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

Chris Hamilton 4/13/00 DATE
 CHIEF, DIVISION OF LAND DEVELOPMENT

James S. Smith 4/15/00 DATE
 DIRECTOR

NO.	DATE	REVISION
1	9-22-00	RESITE AN ALEXANDRIA WITH FLIPPED DRIVEWAY ON LOT 4.

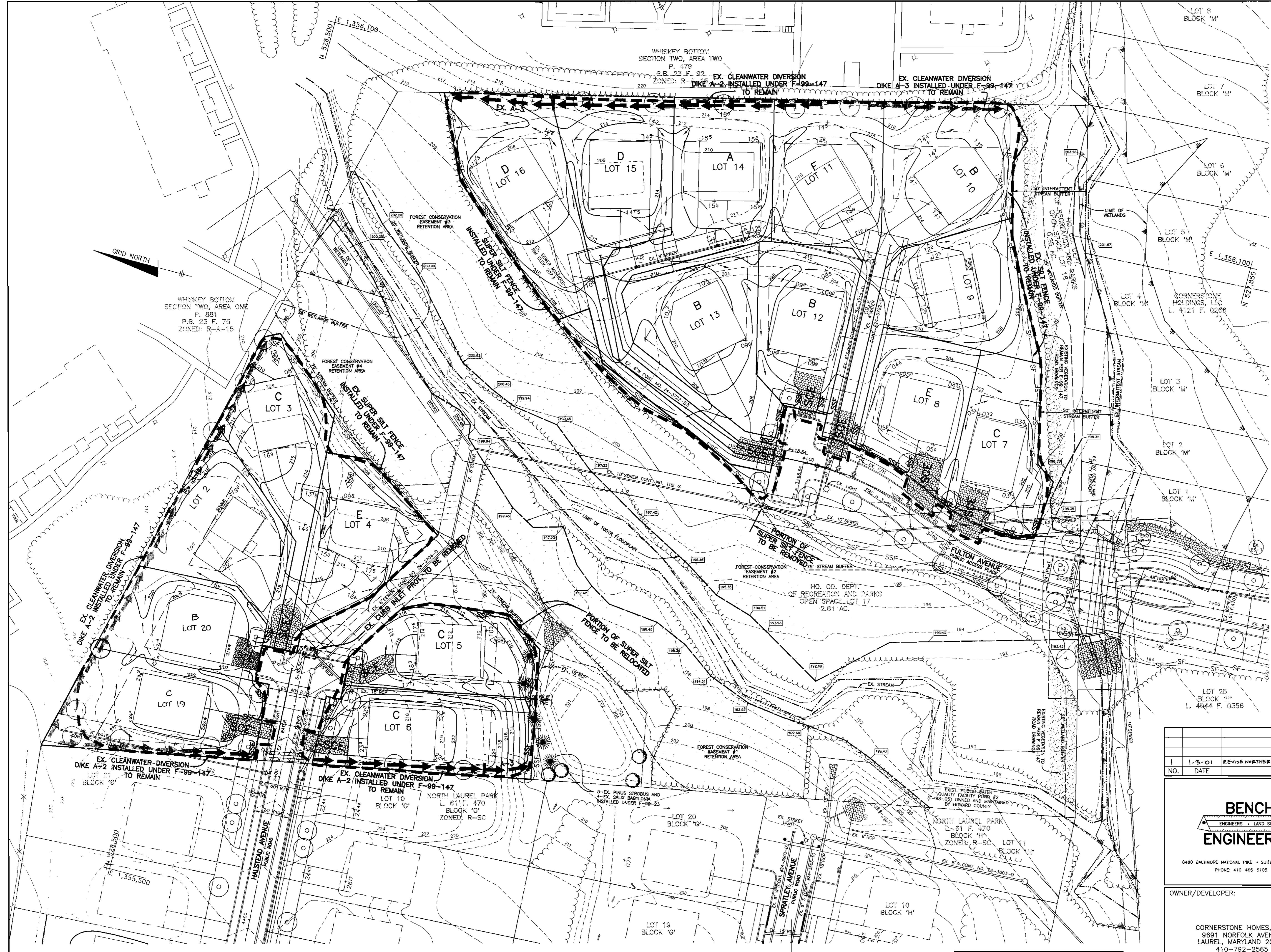
BENCHMARK
 ENGINEERS • LAND SURVEYORS • PLANNERS

Donald Mason

ENGINEERING, INC.

8480 BALTIMORE NATIONAL PIKE • SUITE 418 • ELLICOTT CITY, MARYLAND 21043
 PHONE: 410-465-6105 FAX: 410-465-6644

OWNER/DEVELOPER:	PROJECT:
CORNERSTONE HOMES, INC. 9691 NORFOLK AVENUE LAUREL, MARYLAND 20723 410-792-2565	PATUXENT RIDGE LOTS 1 - 16 AND OPEN SPACE LOTS 17-18
LOCATION:	TITLE:
TAX MAP 50, GRID 3 - PARCEL 374 810 ELECTION DISTRICT HOWARD COUNTY, MARYLAND	GENERIC SITE DEVELOPMENT PLAN
DATE:	PROJECT NO.:
FEBRUARY 4, 2000 MARCH 13, 2000	1313
DES: DBT DRAFT: DBT CHECK: CAM	SCALE: 1" = 30'
	SHEET 2 OF 4



LEGEND

- SF — EXISTING SILT FENCE
- SSF — EXISTING SUPER SILT FENCE
- ← ← ← ← ← EXISTING EARTH DIKE
- SSF — PROPOSED SUPER SILT FENCE
- — — — — LIMIT OF DISTURBANCE
- SCS STABILIZED CONSTRUCTION ENTRANCE

BY THE DEVELOPER:
 I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR 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 EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

B. D. Bay 3-13-00
 DEVELOPER DATE

BY THE ENGINEER:
 I/WE CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT 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.

Donald Mason 3-14-00
 ENGINEER - DONALD A. MASON, P.E. # 21443 DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

Clayton Semmes 3/28/00
 NATURAL RESOURCES CONSERVATION SERVICE DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT TECHNICAL REQUIREMENTS:
John R. Poluto 3/28/00
 HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Clayton Semmes 3/28/00
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

David Hamilton 4/3/00
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Joseph P. Smith 4/8/00
 DIRECTOR DATE

NO.	DATE	REVISION
1	1-3-01	REVISE NORTHERN BOUNDARY LINE, CONVERT LOT 1 INTO LOTS 19 AND 20 CREATING AN ADDITIONAL HOUSE ON LOT 20.

BENCHMARK ENGINEERING, INC.
 ENGINEERS • LAND SURVEYORS • PLANNERS

Donald Mason

8480 BALTIMORE NATIONAL PIKE • SUITE 418 • ELLICOTT CITY, MARYLAND 21043
 PHONE: 410-465-8105 FAX: 410-465-6544

OWNER/DEVELOPER: CORNERSTONE HOMES, INC. 9691 NORFOLK AVENUE LAUREL, MARYLAND 20723 410-792-2565

PROJECT: PATUXENT RIDGE LOTS 2-16, 19, 20 AND OPEN SPACE LOTS 17-18

LOCATION: TAX MAP 50, GRID 3 - PARCEL 374 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE: SEDIMENT AND EROSION CONTROL PLAN
 SP-98-09 F-99-23 F-99-147 F-01-44 F-01-45

DATE: FEBRUARY 4, 2000 PROJECT NO. 1313
 MARCH 13, 2000

DES: DBT DRAFT: DBT CHECK: CAM SCALE: 1" = 30' SHEET 3 OF 4

THIS PLAN IS FOR SEDIMENT AND EROSION CONTROL PURPOSES ONLY

SEDIMENT CONTROL NOTES

- 1. A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTION, LICENSING AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION...
2. 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 SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL...
3. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DICES, PERMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, 5:1 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE...
4. ALL SEDIMENT TRAPS/BASINS SHALL 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 SEEDINGS (SEC. 5) SOD (SEC. 5A) TEMPORARY SEEDING (SEC. 5C) AND MULCHING (SEC. 5D) TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES...
6. ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMITS FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR...
7. SITE ANALYSIS:
TOTAL AREA OF SITE (THIS SUBMISSION) 3.08 ACRES
AREA DISTURBED 3.08 ACRES
AREA TO BE ROOFED OR PAVED 1.02 ACRES
AREA TO BE VEGETATIVELY STABILIZED 2.07 ACRES
TOTAL CUT 6623 CY
TOTAL FILL 8987 CY
OFFSITE WASTE/BORROW AREA LOCATION *

TOPSOIL SPECIFICATIONS

- 1. Topsoil salvaged from the existing site may be used provided that it meets that 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-SCS in cooperation with Maryland Agricultural Experiment Station...
2. Topsoil specifications - Soil to be used as topsoil must meet the following:
I. Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting texture subsoils and shall contain less than 5% by volume of clods, stones, roots, twigs, sticks, rocks, trash, or other materials larger than 1-1/2" in diameter.
ii. Topsoil must be free of plants or plant parts such as Bermuda grass, quack grass, Johnson grass, nutgrass, poison ivy, thistle, or others as specified.
iii. Where the subsoil is either highly acidic or composed of heavy clays, ground conditions shall be assessed at the rate of 4-8 tons/acre (200-800 pounds per 1,000 square feet) prior to the placement of topsoil. Lime shall be distributed uniformly over designated areas or worked into the soil in conjunction with tillage operations as described in the following procedures.
III. For sites having disturbed areas under 5 acres:
I. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.
IV. For sites having disturbed areas over 5 acres:
I. On soil meeting Topsoil specifications, obtain test results indicating fertilizer and lime amendments required to bring the soil into compliance with the following:
a. 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.
b. Organic content or topsoil shall be not less than 1.5 percent by weight.
c. Topsoil having soluble salt content greater than 500 parts per million shall not be used.
d. No soil or seed shall be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min) to permit dissipation of phytotoxic 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.
ii. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.
V. Topsoil Application
I. 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.
ii. Grades on the areas to be topsoiled, which have been previously established, shall be maintained, about 4" - 8" higher in elevation.
iii. 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 seeding or sodding or sodding in conjunction with 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.
iv. Topsoil shall not be placed 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 seedbed preparation.
VI. Alternative for Permanent Seeding - Instead of applying the full amounts of lime and commercial fertilizer, composted sludge and amendments may be applied as specified below:
I. Composted Sludge Material for use as a soil conditioner for sites having distributed areas over 5 acres shall be tested to determine amendments and for sites having disturbed areas under 5 acres shall conform to the following requirements:
a. Composted sludge shall be supplied by, or originate from, a person or persons that are permitted (at the time of acquisition of the compost) by the Maryland Department of the Environment under COMAR 26.04.06.
b. Composted sludge shall contain at least 1 percent nitrogen, 1.5 percent phosphorus, and 0.2 percent potassium and have a pH of 7.0 to 8.0. If compost does not meet these requirements, the appropriate constituents must be added to meet the requirements prior to use.
c. Composted sludge shall be applied at a rate of 1 ton/1,000 square feet.
ii. Composted sludge shall be amended with a potassium fertilizer applied at the rate of 4 lb/10,000 square feet, and 1/3 the normal lime application rate.
Reference: Guidelines Specifications, Soil Preparation and Sodding - MD-HA, Pub. #1, Cooperative Extension Service, University of Maryland and Virginia Polytechnic Institute, Revised 1973.

TEMPORARY SEEDBED PREPARATIONS

- 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, DISING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.
SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ FT).
SEEDING: FOR PERIOD MARCH 1 THROUGH APRIL 30 AND FROM AUGUST 15 THROUGH NOVEMBER 15, SEED WITH 2-1/2 BUSHELS PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ FT) FOR THE PERIOD MAY 1 THROUGH AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (0.7 LBS/1000 SQ FT). FOR THE PERIOD NOVEMBER 16 THROUGH FEBRUARY 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 SQ FT) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (8 GAL/1000 SQ FT) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES 8 FT OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ FT) FOR ANCHORING.
REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

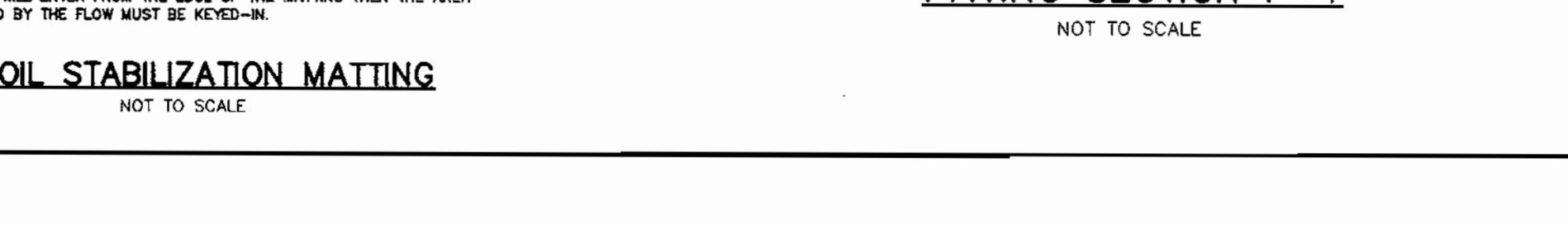
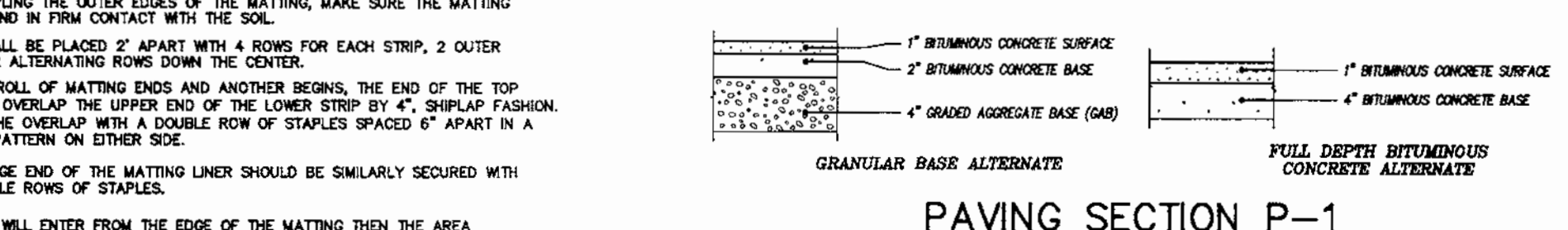
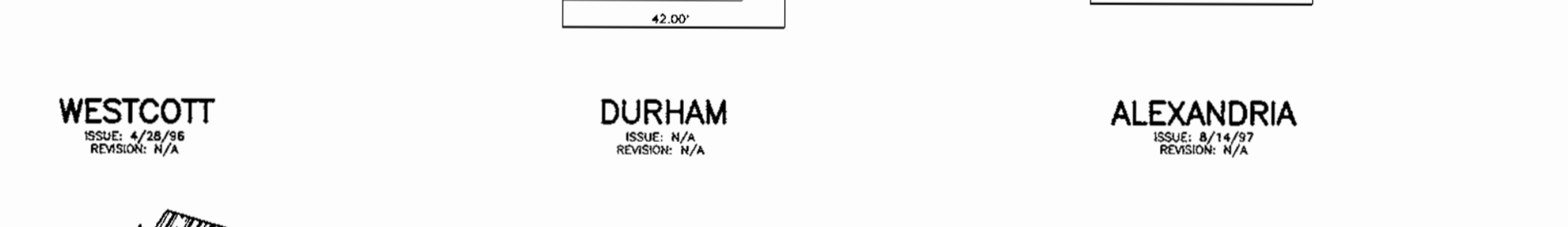
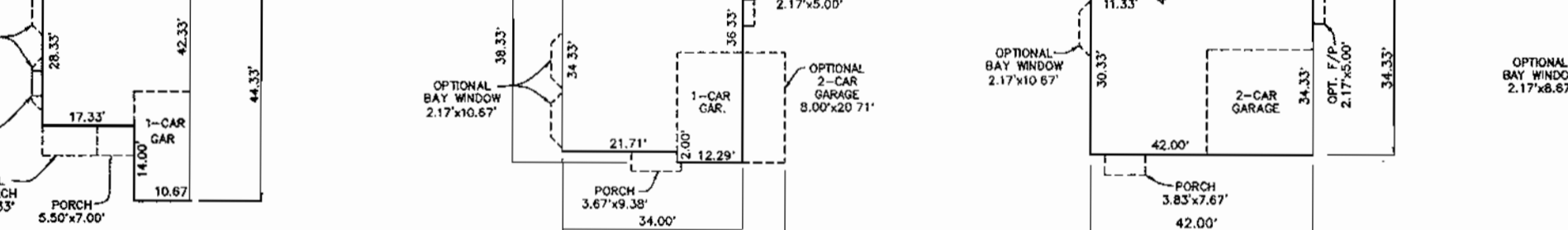
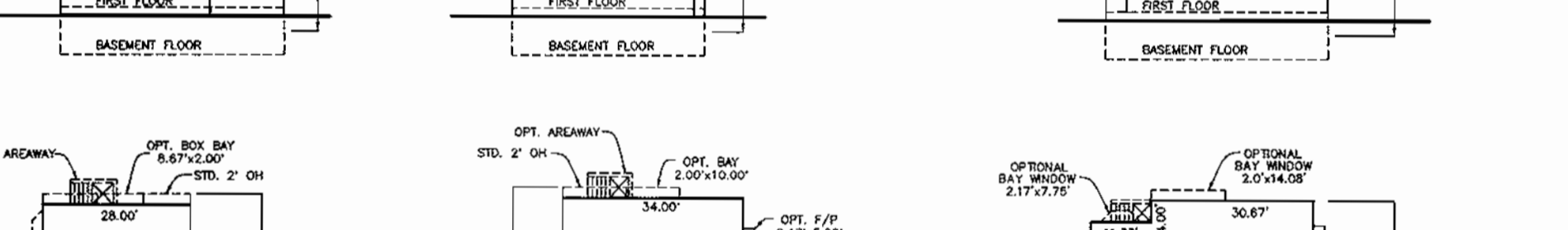
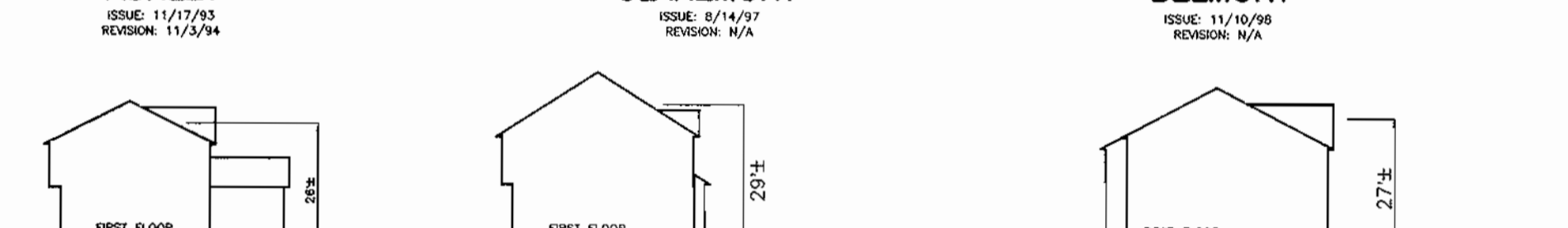
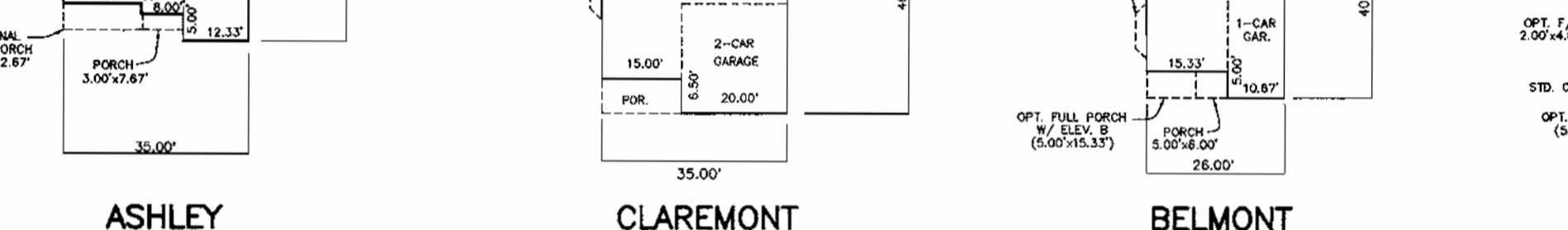
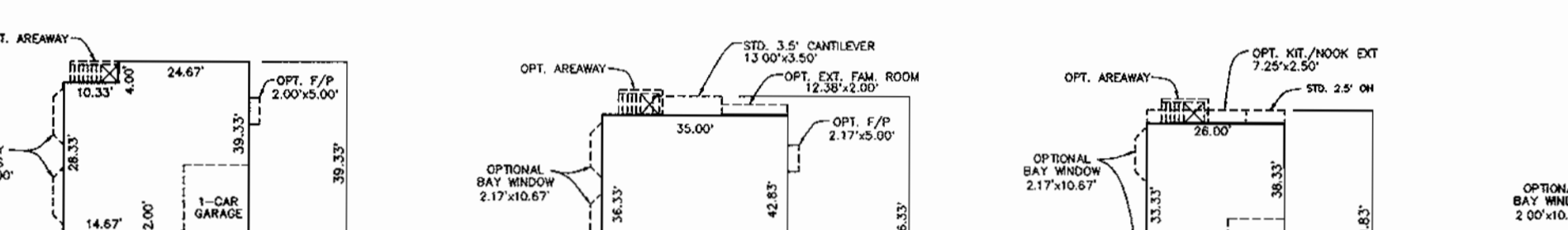
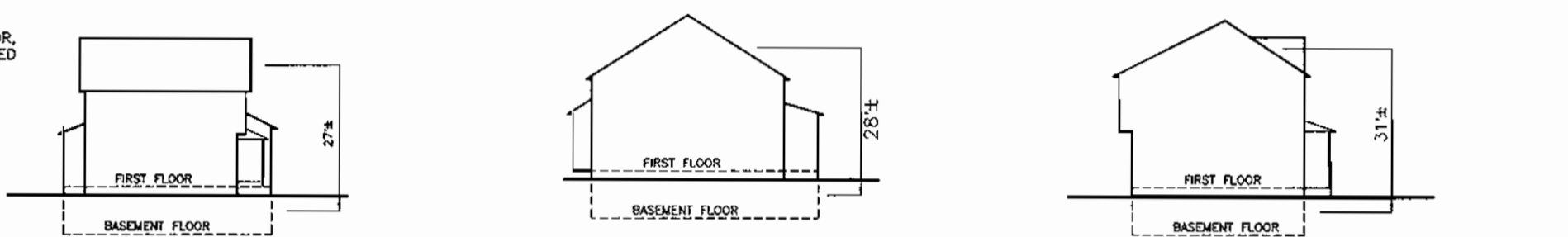
SEQUENCE OF CONSTRUCTION

- NOTIFY SEDIMENT CONTROL DIVISION 48 HOURS PRIOR TO START OF CONSTRUCTION
DAY 1-1) OBTAIN GRADING PERMIT.
DAY 2-8) 2) INSTALL SEDIMENT CONTROLS THAT ARE NOTED TO BE INSTALLED UNDER THIS SDP. THE EXISTING CONTROLS THAT WERE INSTALLED UNDER 1-99-147 THAT ARE TO REMAIN SHALL BE INSPECTED AND/OR MODIFIED AS SHOWN ON PLANS TO ENSURE THEY MEET COMPLIANCE WITH SPECIFICATIONS. ANY REMAINING CONTROLS INSTALLED UNDER F-99-147 THAT WILL NOT BE UTILIZED UNDER THIS SDP SHALL BE REMOVED BY THE DEVELOPER.
DAY 9-12*) 3) EXCAVATE FOR FOUNDATIONS, ROUGH GRADE AND STABILIZE IN ACCORDANCE WITH TEMPORARY SEEDBED NOTES.
DAY 13-82) 4) CONSTRUCT HOUSES, BACKFILL AND CONSTRUCT DRIVEWAYS.
DAY 83-87) 5) FINAL GRADE AND STABILIZE IN ACCORDANCE WITH PERMANENT SEEDBED NOTES AND FLUSH STORM DRAIN SYSTEM.
DAY 88-91) 6) WITH THE APPROVAL OF THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL DEVICES AND STABILIZE ANY REMAINING DISTURBED AREAS.
-- INDICATES SINGLE HOUSE CONSTRUCTION.

NOTE: 1. SEDIMENT CONTROL LOCATION AND IMPLEMENTATION SHOWN ON THESE PLANS IS SUBJECT TO REVISION IN THE FIELD AT THE DISCRETION OF THE SEDIMENT CONTROL INSPECTOR.
2. EROSION CONTROL MATTING SHALL BE PLACED IN SLOPES WHERE DEEMED NECESSARY UNLESS VEGETATION IS ESTABLISHED OR SOLID SOD SHOULD BE USED.

GENERIC BOXES

SCALE: 1" = 30'



OPTIONS CHART

Table with columns for house types (ALEXANDRIA, ASHLEY, BELMONT, CHARLESTON, CLAREMONT, DURHAM, LEXINGTON, WESTCOTT) and rows for options (BOX A-F). Includes a legend for options and a note: 'NOTE: THE OPTIONS LISTED IN THIS CHART ARE OPTIONS WHICH "WILL" FIT WITHIN THE GENERIC BOX FOOTPRINT.'

* WILL NOT ACCEPT A OPT. #4 ON THE CLAREMONT ON LOT 1.
** ALEXANDRIA WILL ONLY FIT ON LOT 13 IF DRIVEWAY IS 'FLUPPED'. THIS WILL REQUIRE A HOUSE TYPE REVISION.

LOT/BOX CHART table with columns for Lot #, Box, Lot #, Box. Includes a legend for options and a note: 'BY THE DEVELOPER: I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR 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 EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.'

BY THE ENGINEER: I/WE CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT 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.

Signature: Donald Moan, 3-14-00, ENGINEER - DONALD A. MASON, P.E. # 21443

Signature: Paul Simmons, 3/28/00, REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT. MEETS TECHNICAL REQUIREMENTS.

Signature: John P. Blanton, 3/28/00, APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Signature: Cindy Hamilton, 4/3/00, CHIEF, DIVISION OF LAND DEVELOPMENT

Signature: [Signature], 4/5/00, DATE

Signature: [Signature], 4/5/00, DATE

Signature: [Signature], 4/5/00, DATE

Signature: [Signature], 4/5/00, DATE

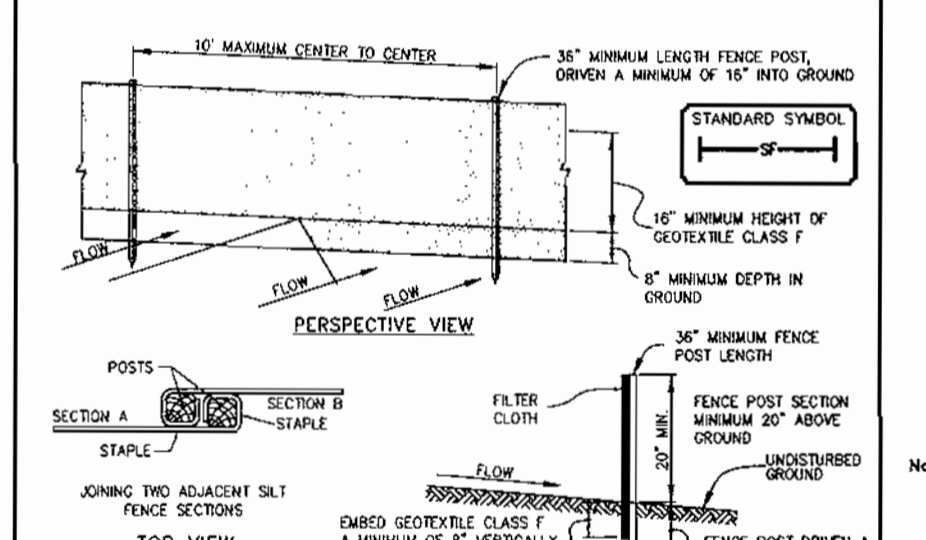
Signature: [Signature], 4/5/00, DATE

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PERMANENT SEEDBED PREPARATIONS

- SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISING 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/1000 SQ FT) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ FT) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL AT TIME OF SEEDING. APPLY 400 LBS PER ACRE 3-0-0-0 UREAFORM FERTILIZER (9 LBS/1000 SQ FT).
2. ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ FT) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ FT) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.
SEEDING: FOR THE PERIODS MARCH 1 THROUGH APRIL 30 AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 60 LBS PER ACRE (1.4 LBS/1000 SQ FT) OF KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (0.5 LBS/1000 SQ FT) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THROUGH FEBRUARY 28, PROTECT SITE WITH 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOD OPTION (3) SEED WITH 3 LBS PER ACRE OF KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS PER ACRE OF WELL ANCHORED STRAW.
MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ FT) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (8 GAL/1000 SQ FT) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ FT) FOR ANCHORING.
MAINTENANCE: INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

DETAIL 22 - SILT FENCE



CONSTRUCTION NOTES FOR FABRICATED SILT FENCE
1. Fence posts shall be a minimum of 38" long driven 16" minimum into the ground. Wood posts shall be 1 1/2" square (minimum) (minimum) round and shall be of sound quality hardwood. Steel posts shall be standard 1" or U section weighing not less than 10 lbs per linear foot.
2. Geotextile shall be fastened securely to each fence post with wire ties or staples of top and mid-section and shall meet the following requirements for Geotextile Class F:
Tensile Strength 50 lbs/in (min.) Test: MSMT 509
Tensile Modulus 20 lbs/in (min.) Test: MSMT 509
Flow Rate 0.5 gpm/ft (min.) Test: MSMT 522
Filtering Efficiency 75% (min.) Test: MSMT 522
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 reaches 50% of the fabric height.

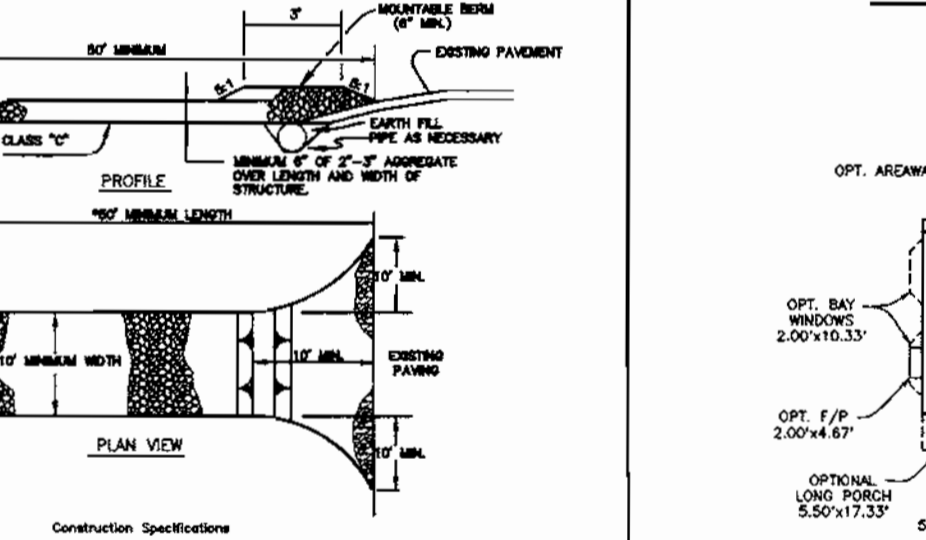
U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE E-15-3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

SILT FENCE

SILT FENCE DESIGN CRITERIA table with columns for Slope Steepness, Maximum Slope Length, and Silt Fence Length. Includes a note: '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 required.'

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE E-15-3A MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

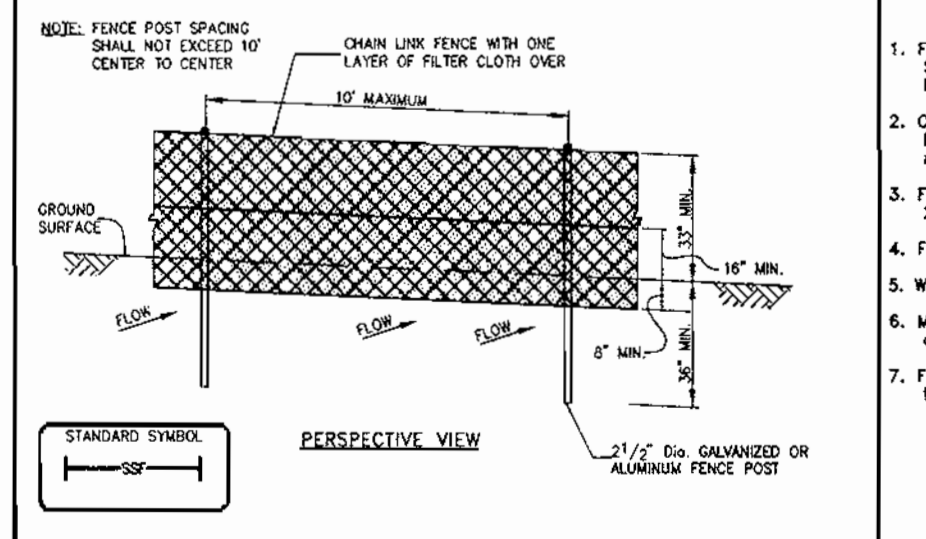
DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE



CONSTRUCTION SPECIFICATIONS
1. Length - minimum of 50' (40' for single residence lots).
2. Width - 10' minimum, should be formed at the existing road to provide a turning radius.
3. Concrete fabric (other than) shall be placed over the existing ground prior to placing stone. The stone support structure shall be constructed with a minimum of 12" concrete.
4. Slope - maximum of 3:1 or 2:1 on the up-slope and 1:1 on the down-slope.
5. Surface Water - use surface water flowing to or diverted toward construction entrance shall be placed through the entrance, including positive drainage. Pipe installed through entrance shall be protected with a minimum of 12" concrete.
6. Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicle tires shall be washed on the entire length of the stabilized construction entrance.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE F-17-3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL 33 - SUPER SILT FENCE



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 specification for a 6" fence shall be used, substituting 42" fabric and 6" length posts.
2. Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, brace and frass rods, drive anchors and post caps are not required except on the ends of the fence.
3. Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" of the top and mid section.
4. Filter cloth shall be embedded a minimum of 8" into the ground.
5. When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and folded.
6. Maintenance shall be performed as needed and all buildups removed when "bulges" develop in the silt fence, or when 50% reaches 50% of fence height.
7. Filter cloth shall be fastened securely to each fence post with wire ties or staples of top and mid section and shall meet the following requirements for Geotextile Class F:
Tensile Strength 50 lbs/in (min.) Test: MSMT 509
Tensile Modulus 20 lbs/in (min.) Test: MSMT 509
Flow Rate 0.5 gpm/ft (min.) Test: MSMT 522
Filtering Efficiency 75% (min.) Test: MSMT 522

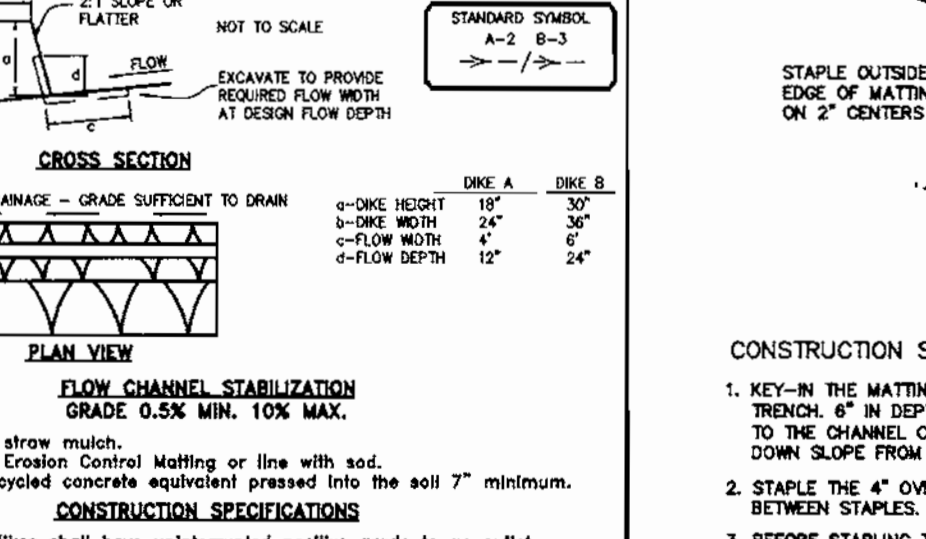
U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE H-26-3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

SUPER SILT FENCE

SUPER SILT FENCE DESIGN CRITERIA table with columns for Slope, Slope Length, and Silt Fence Length. Includes a note: '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 required.'

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE E-26-3A MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL 1 - EARTH DIKE

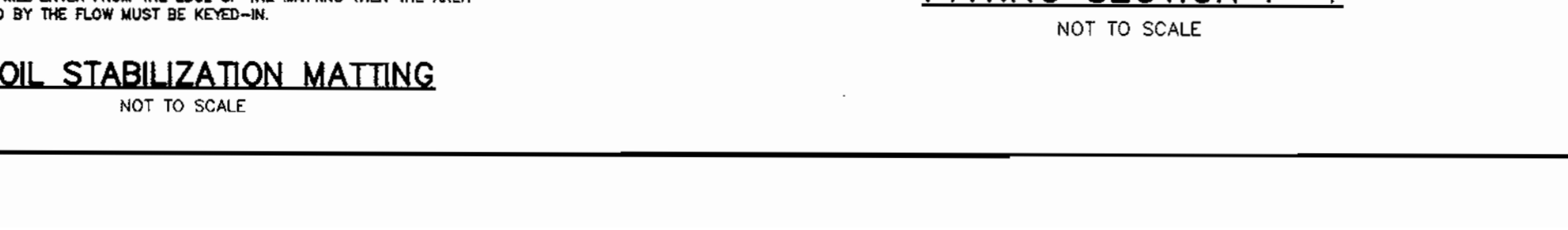
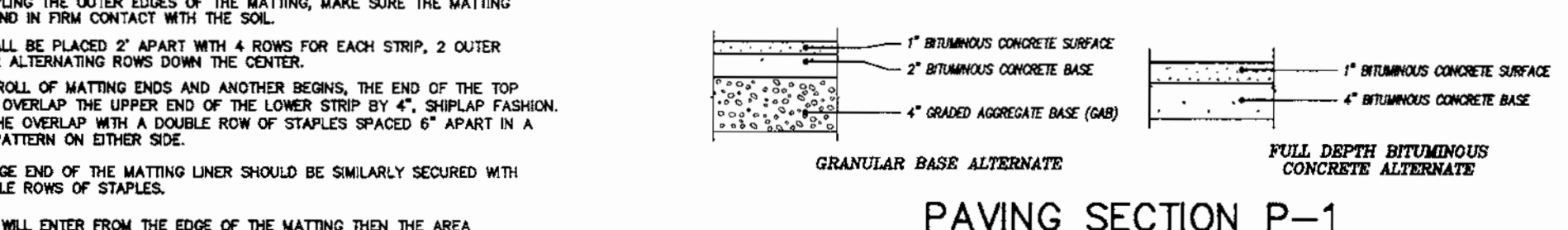
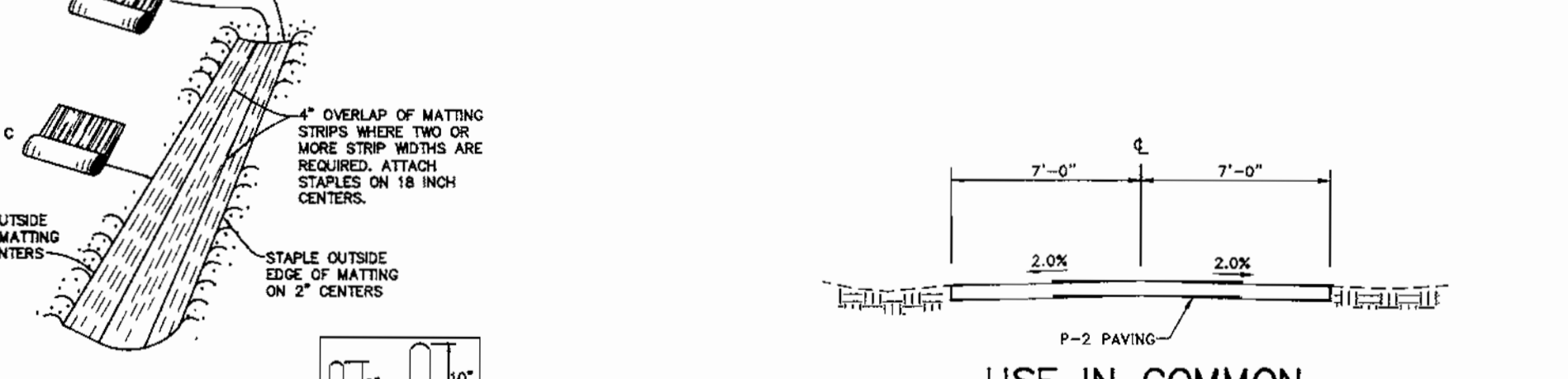


CONSTRUCTION SPECIFICATIONS
1. Seed and cover with straw mulch.
2. Seed and cover with Erosion Control Matting or live with sod.
3. 4" - 7" stone or recycled concrete equivalent placed into the soil 7" minimum.
CONSTRUCTION SPECIFICATIONS
1. All temporary earth dikes shall have uninterrupted positive grade to an outlet. Spot elevations may be necessary for grades less than 1%.
2. Runoff diverted from a disturbed area shall be conveyed to a sediment trapping device.
3. Runoff diverted from an undisturbed area shall outlet directly into an undisturbed, stabilized area of no-on-erosive velocity.
4. All trees, brush, stumps and other obstructions shall be removed and disposed of so as not to interfere with the proper functioning of the dike.
5. The dike shall be accreted or shaped to line, grade and cross section as required to meet the criteria specified in the preceding paragraph.
6. Fill shall be compacted by earth moving equipment.
7. All earth removed and not needed for construction shall be placed so that it will not interfere with the functioning of the dike.
8. Inspection and maintenance must be provided periodically and after each rain event.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE A-1-6 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

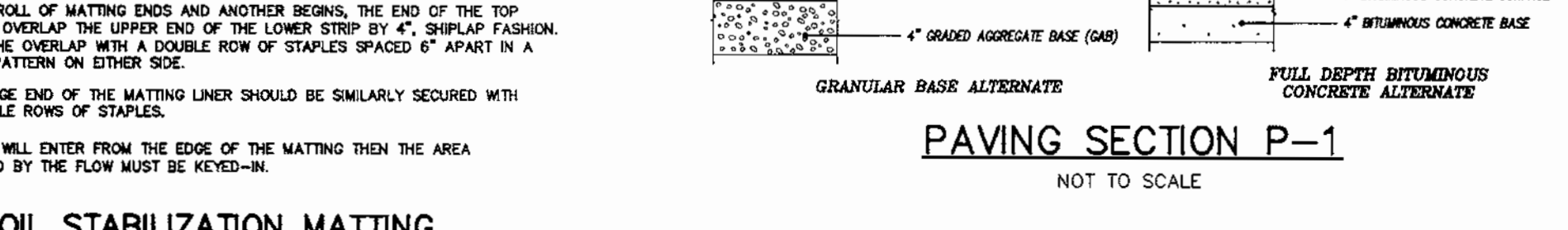
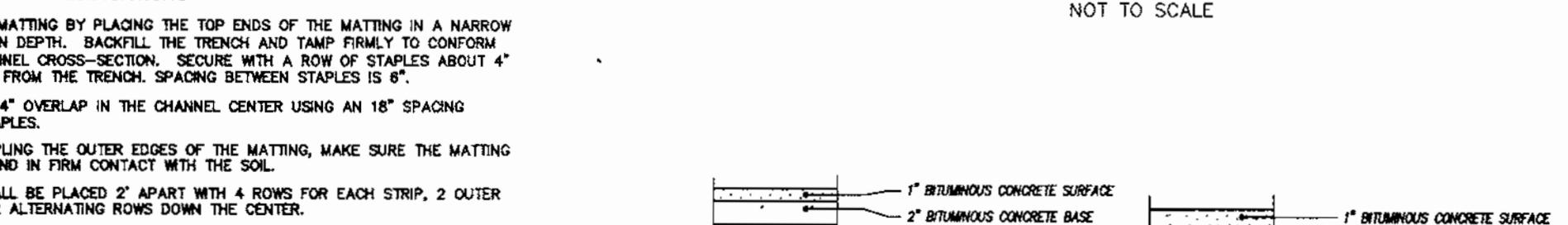
HOUSE FOOTPRINTS

SCALE: 1" = 30'



USE IN COMMON DRIVEWAY TYPICAL SECTION

NOT TO SCALE



CONSTRUCTION SPECIFICATIONS
1. KEY-IN THE MATTING BY PLACING THE TOP ENDS OF THE MATTING IN A NARROW TRENCH 4" IN DEPTH. BACKFILL THE TRENCH AND TAMP FIRMLY TO CONFORM TO THE CHANNEL CROSS-SECTION. SECURE WITH A ROW OF STAPLES ABOUT 4" DOWN SLOPE FROM THE TRENCH. SPACING BETWEEN STAPLES IS 6".
2. STAPLE THE MATTING IN THE CHANNEL CENTER USING AN 18" SPACING BETWEEN STAPLES.
3. BEFORE STAPLING THE OUTER EDGES OF THE MATTING, MAKE SURE THE MATTING IS SMOOTH AND IN FIRM CONTACT WITH THE SOIL.
4. STAPLES SHALL BE PLACED 2' APART WITH A ROWS FOR EACH STRIP, 2 OUTER ROWS, AND 2 ALTERNATING ROWS DOWN THE CENTER.
5. WHERE ONE ROLL OF MATTING ENDS AND ANOTHER BEGINS, THE END OF THE TOP STRIP SHALL OVERLAP THE UPPER END OF THE LOWER STRIP BY 4". SHIP-LAP FASHION. REINFORCE THE OVERLAP WITH A DOUBLE ROW OF STAPLES SPACED 4' APART IN A STAGGERED PATTERN ON EITHER SIDE.
6. THE DISCHARGE END OF THE MATTING LINE SHOULD BE SIMILARLY SECURED WITH WITH 2 DOUBLE ROWS OF STAPLES.
NOTE: IF FLOW WILL ENTER FROM THE EDGE OF THE MATTING THEN THE AREA EFFECTED BY THE FLOW MUST BE KEPT-DRY.

SOIL STABILIZATION MATTING NOT TO SCALE

BENCHMARK ENGINEERS, LAND SURVEYORS & PLANNERS
8480 BALTIMORE NATIONAL PIKE • SUITE 418 • ELLICOTT CITY, MARYLAND 21043
PHONE: 410-465-6105 FAX: 410-465-6644

OWNER/DEVELOPER: CORNERSTONE HOMES, INC. 9691 NORFOLK AVENUE LAUREL, MARYLAND 20723 410-792-2565

PROJECT: PATUXENT RIDGE
Lots 2-14, 20 AND OPEN SPACE LOTS 17-18
LOCATION: TAX MAP 50, GRID 3 - PARCEL 374 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE: SEDIMENT AND EROSION CONTROL NOTES AND DETAILS HOUSE FOOTPRINTS AND BOX DETAILS SHEET
DATE: FEBRUARY 4, 2000 PROJECT NO. 1313
MARCH 13, 2000
DES: DBT DRAFT: DBT CHECK: CAM SCALE: AS SHOWN SHEET 4 OF 4

SITE DEVELOPMENT PLAN

PATUXENT RIDGE

LOTS 2-16, 19, 20 AND OPEN SPACE LOTS 17-18

6th ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

SCHEDULE A PERIMETER LANDSCAPE EDGE	
CATEGORY	ADJACENT TO PERIMETER PROP.
LANDSCAPE TYPE	A
LINEAR FEET OF PERIMETER FRONTAGE/PERMETER	253 LF.
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO
CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO
NUMBER OF PLANTS REQUIRED:	253 L.F.
SHADE TREES	4
EVERGREEN TREES	0
OTHER TREES (2:1 SUBSTITUTE)	0
SHRUBS	0
NUMBER OF PLANTS PROVIDED:	1*
SHADE TREES	0
EVERGREEN TREES	0
OTHER TREES (2:1 SUBSTITUTE)	0
SHRUBS (10:1 SUBSTITUTE)	0

* 3 SHADE TREES WERE PROVIDED UNDER F-99-147.

LANDSCAPE PLANTING LIST			
SYMBOL	QUANTITY	NAME	REMARKS
+	1	PLANTANUS ACERIFOLIA 'BLOODGOOD' (Bloodgood London Plane)	2 1/2" MIN. CAL. B&S FULL HEAD

NOTE:
THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPE TREE ON LOT 1 IS NOT REQUIRED UNDER THIS SDP (SDP-00-G). THE DEPT. OF PLANNING AND ZONING WILL INSPECT FOR THE REQUIRED LANDSCAPE TREE UPON THE AUTHORIZED RELEASE OF THE LANDSCAPE SURETY FOR F-99-147.

SHC TABLE		
NO.	MIN. CELLAR	SHC INV.
19	213.42	209.00 *
2	204.59	200.57
3	205.18	199.62
4	203.00	199.40 *
5	205.00	201.10 *
6	213.00	209.00 *
7	194.21	190.53
8	195.33	191.57
9	203.35	202.27 *
10	204.39	202.99 *
11	204.30	203.26 *
12	197.34	196.36 *
13	198.94	195.22
14	203.88	202.70 *
15	201.69	200.51 *
16	200.12	195.70
20	210.00	206.02 *

NOTE: CONTRACTOR TO CHECK SEWER HOUSE CONNECTION ELEVATION AT PROPERTY/EASEMENT LINE PRIOR TO CONSTRUCTION OF HOUSE TO ENSURE PROPER SHC SLOPES CAN BE MAINTAINED.
* INDICATES A DROP SEWER HOUSE CONNECTION

SITE ANALYSIS DATA CHART

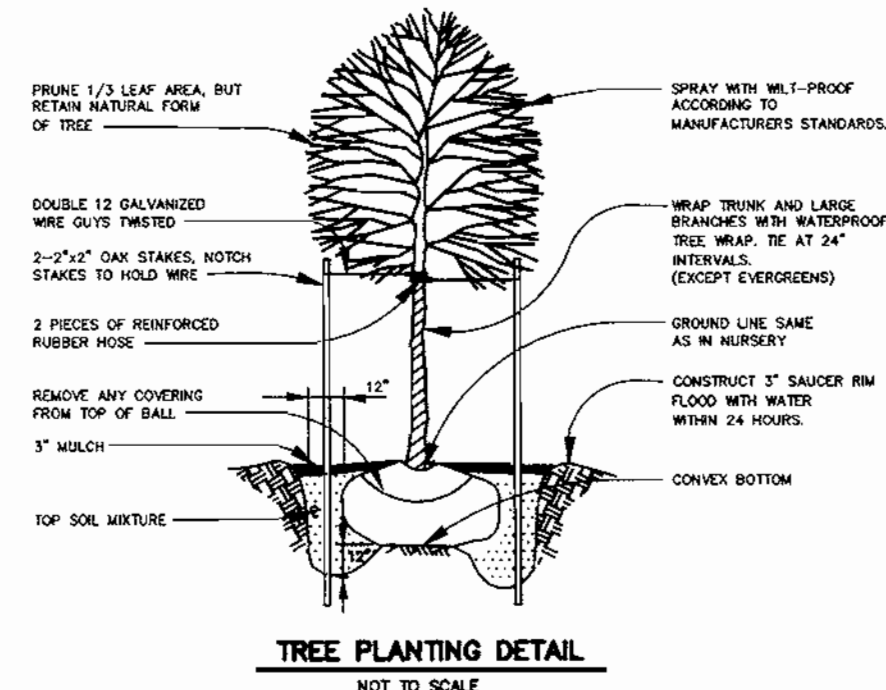
- GENERAL SITE DATA**
- PRESENT ZONING: R-SC
 - APPLICABLE DPZ FILE REFERENCES: S-99-09, F-99-23, F-99-147, F-01-44, F-01-45
 - PROPOSED USE OF SITE: SINGLE FAMILY DETACHED
 - PROPOSED WATER AND SEWER SYSTEMS: PUBLIC PRIVATE
- AREA TABULATION**
- TOTAL PROJECT AREA: 6.37 AC.
 - AREA OF THIS PLAN SUBMISSION: 3.08 AC.
 - APPROXIMATE LIMIT OF DISTURBANCE: 3.08 AC.
 - TOTAL NUMBER OF LOTS ALLOWED AS SHOWN ON FINAL PLATS: 17
 - TOTAL NUMBER OF RESIDENTIAL UNITS/LOTS PROPOSED ON THIS SUBMISSION: 17
 - OPEN SPACE ON-TOTAL SITE: 3.04 AC. PERCENTAGE OF GROSS AREA: 47.7%
 - AREA OF RECREATIONAL OPEN SPACE REQUIRED: 0.00 AC.
 - AREA OF RECREATIONAL OPEN SPACE PROVIDED: 0.00 AC.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

[Signature] 3/30/00
CHIEF, DEVELOPMENT ENGINEERING DIVISION

[Signature] 4/3/00
CHIEF, DIVISION OF LAND DEVELOPMENT

[Signature] 4/5/00
DIRECTOR



NOTE:

- TREES SHOULD BE PLANTED A MINIMUM OF 6 FEET FROM THE EDGE OF PAVING AND MUST BE A MINIMUM OF 5 FEET FROM ANY STORM DRAIN.
- TREES MUST BE PLANTED A MINIMUM OF 5 FEET FROM AN OPEN SPACE ACCESS STRIP AND 10 FEET FROM A DRIVEWAY.
- SEE TREE PLANTING DETAIL - THIS SHEET.



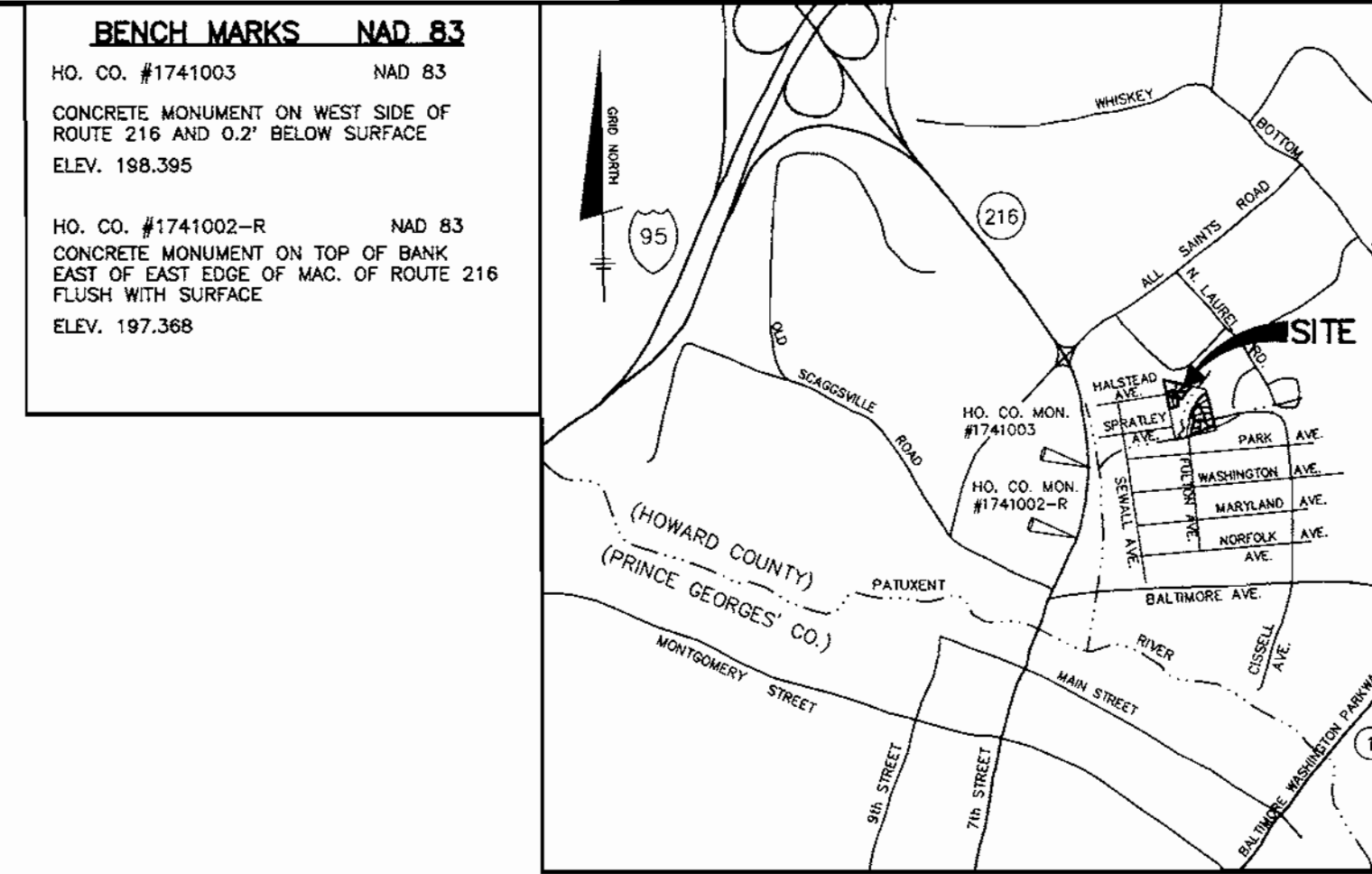
PLAN VIEW
SCALE: 1" = 100'

SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET
2	SITE DEVELOPMENT PLAN
3	GRADING, SEDIMENT AND EROSION CONTROL PLAN
4	SEDIMENT AND EROSION CONTROL NOTES AND DETAILS HOUSE FOOTPRINT AND BOX DETAIL SHEET

ADDRESS CHART			
SUBDIVISION: PATUXENT RIDGE LOTS 1 - 16			
LOT No.	STREET ADDRESS	LOT No.	STREET ADDRESS
2	9655 HALSTEAD AVENUE	9	9221 FULTON AVENUE
3	9651 HALSTEAD AVENUE	11	9213 FULTON AVENUE
4	9650 HALSTEAD AVENUE	12	9209 FULTON AVENUE
5	9654 HALSTEAD AVENUE	13	9205 FULTON AVENUE
6	9658 HALSTEAD AVENUE	14	9201 FULTON AVENUE
7	9229 FULTON AVENUE	15	9200 FULTON AVENUE
8	9225 FULTON AVENUE	16	9204 FULTON AVENUE
		19	9663 HALSTEAD AVE.
		20	9659 HALSTEAD AVE.

MINIMUM LOT SIZE CHART			
LOT NO.	GROSS AREA	PIPESTEM AREA	MINIMUM LOT SIZE
2	7,311 S.F.	120 S.F.	7,191 S.F.
3	7,114 S.F.	595 S.F.	6,519 S.F.
4	6,909 S.F.	120 S.F.	6,789 S.F.
9	7,956 S.F.	669 S.F.	7,287 S.F.
10	9,486 S.F.	976 S.F.	8,510 S.F.
11	8,605 S.F.	979 S.F.	7,262 S.F.
14	9,564 S.F.	2,384 S.F.	7,180 S.F.
15	9,001 S.F.	1,518 S.F.	7,483 S.F.
16	10,815 S.F.	1,388 S.F.	9,427 S.F.

PERMIT INFORMATION CHART					
SUBDIVISION NAME:			SECTION/AREA:	LOT/PARCEL #	
PATUXENT RIDGE LOTS 2-16, 19, 20 AND OPEN SPACE LOTS 17-18			N/A	374	
PLAT Nos.	BLOCK No.	ZONE	TAX MAP	ELECTION DISTRICT	CENSUS TRACT
14077-14079 14478 14548	3	R-SC	50	6th	606903
WATER CODE C05			SEWER CODE 7141500		



VICINITY MAP
SCALE: 1" = 2000'

GENERAL NOTES

- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS CONSTRUCTION INSPECTION DIVISION AT (410)313-1880 AT LEAST FIVE(5) WORKING DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
- TOPOGRAPHY SHOWN HEREON WAS TAKEN FROM ROAD CONSTRUCTION PLANS F-99-147. CONTOUR INTERVAL IS 2 FEET.
- HORIZONTAL AND VERTICAL DATUM ARE NAD '83 - MONUMENTS 1741003 AND 1741002-R.
- ALL ROADWAYS ARE PUBLIC.
- EXISTING UTILITIES SHOWN HAVE BEEN TAKEN FROM CONTRACT DRAWINGS 24-3722-D & 24-3704-D AND ROAD CONSTRUCTION PLANS F-99-23 & F-99-147. IF NECESSARY, CONTRACTOR SHALL ADJUST ALL TOP ELEVATIONS TO MATCH SDP GRADES.
- STORMWATER MANAGEMENT IS PROVIDED FOR THESE LOTS UNDER ROAD CONSTRUCTION PLANS F-98-05 BY MEANS OF EXTENDED DETENTION.
- NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN WETLANDS, WETLAND BUFFERS, STREAM BUFFERS OR FOREST CONSERVATION AREAS.
- PORCHES, FIREPLACES, CHIMNEYS, EXTERIOR STAIRWAYS, DECKS AND BAY WINDOWS WHICH EXTENDS ACROSS THE BRL SHALL BE IN ACCORDANCE WITH SECTION 128 (c)(1) OF THE HOWARD COUNTY ZONING REGULATIONS.
- WOB INDICATES WALKOUT BASEMENT.
- PREVIOUS HOWARD COUNTY FILE NOS. SP-98-09 F-99-23 F-99-147
- THE STAKING OF FOUNDATIONS PRIOR TO CONSTRUCTION TO ENSURE COMPLIANCE WITH REGULATORY BUILDING RESTRICTION LINES IS RECOMMENDED.
- ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE BUILDERS EXPENSE.
- BRL INDICATES BUILDING RESTRICTION LINE.
- FOR DRIVEWAY ENTRANCE DETAIL SEE HOWARD COUNTY STANDARD DETAILS R-6.03 & R-6.05.
- HOUSES/GARAGES WILL BE SITED ON LOTS SO THAT A SECOND CAR, IF PARKED IN THE DRIVEWAY, WILL NOT OVERHANG THE USE-IN-COMMON ACCESS DRIVEWAY.
- DRIVEWAY SLOPES SHOWN ARE AVERAGE. THE SLOPE AT THE OUTSIDE EDGES COULD BE FLATTER OR STEEPER DEPENDING ON GRADE OF ROADWAY.
- MOST OF THE PERIMETER LANDSCAPING WAS PROVIDED UNDER THE F-99-147 ROAD CONSTRUCTION PLANS AS PART OF THE DEVELOPER'S AGREEMENT AS LABELED ON THIS SDP. HOWEVER, ONE (1) ADDITIONAL LANDSCAPE TREE WILL BE PROVIDED UNDER THIS PLAN (SDP-00-G). FINANCIAL SURETY UNDER THIS PLAN IS NOT REQUIRED.
- SUBJECT PROPERTY IS ZONED R-SC PER 10-18-93 COMPREHENSIVE ZONING PLAN.
- FOREST CONSERVATION OBLIGATIONS HAVE BEEN MET BY RETAINING 1.2 ACRES OF FOREST ON-SITE IN 4 FOREST CONSERVATION EASEMENTS AND BY A FEE-IN-LIEU PAYMENT OF \$13,068.00 FOR THE REQUIRED 1.0 ACRE OF REFORESTATION.
- GENERIC BOXES LOCATED ON THE REAR BUILDING RESTRICTION LINE MAY HAVE LIMITATIONS TO THE SIZE OF DECKS ALLOWED ON CERTAIN MODELS.
 - WIDTH - 12' (14' SERVING MORE THAN ONE RESIDENCE).
 - SURFACE - 6" OF COMPACT CRUSHER RUN BASE WITH TAR AND CHIP COATING (1-1/2" MIN).
 - GEOMETRY - MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE AND MINIMUM 45' TURNING RADIUS.
 - STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (425 LOADINGS).
 - DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100 YEAR FLOODPLAIN WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY.
 - STRUCTURE CLEARANCES - MINIMUM 12 FEET.
 - MAINTENANCE - SUFFICIENT TO INSURE ALL WEATHER USE.

NO.	DATE	REVISION
2	1-3-01	REVISE BETWEEN BOUNDARY LINE, CONVEY LOT 1 INTO LOTS 19 AND 20 CREATING AN ADDITIONAL HOUSE ON LOT 20, REVISION TABLES AND CHARTS.
3	5-30-00	REVISE LANDSCAPE SURETY NOTES PER DPZ LETTER DATED 5-2-2000.

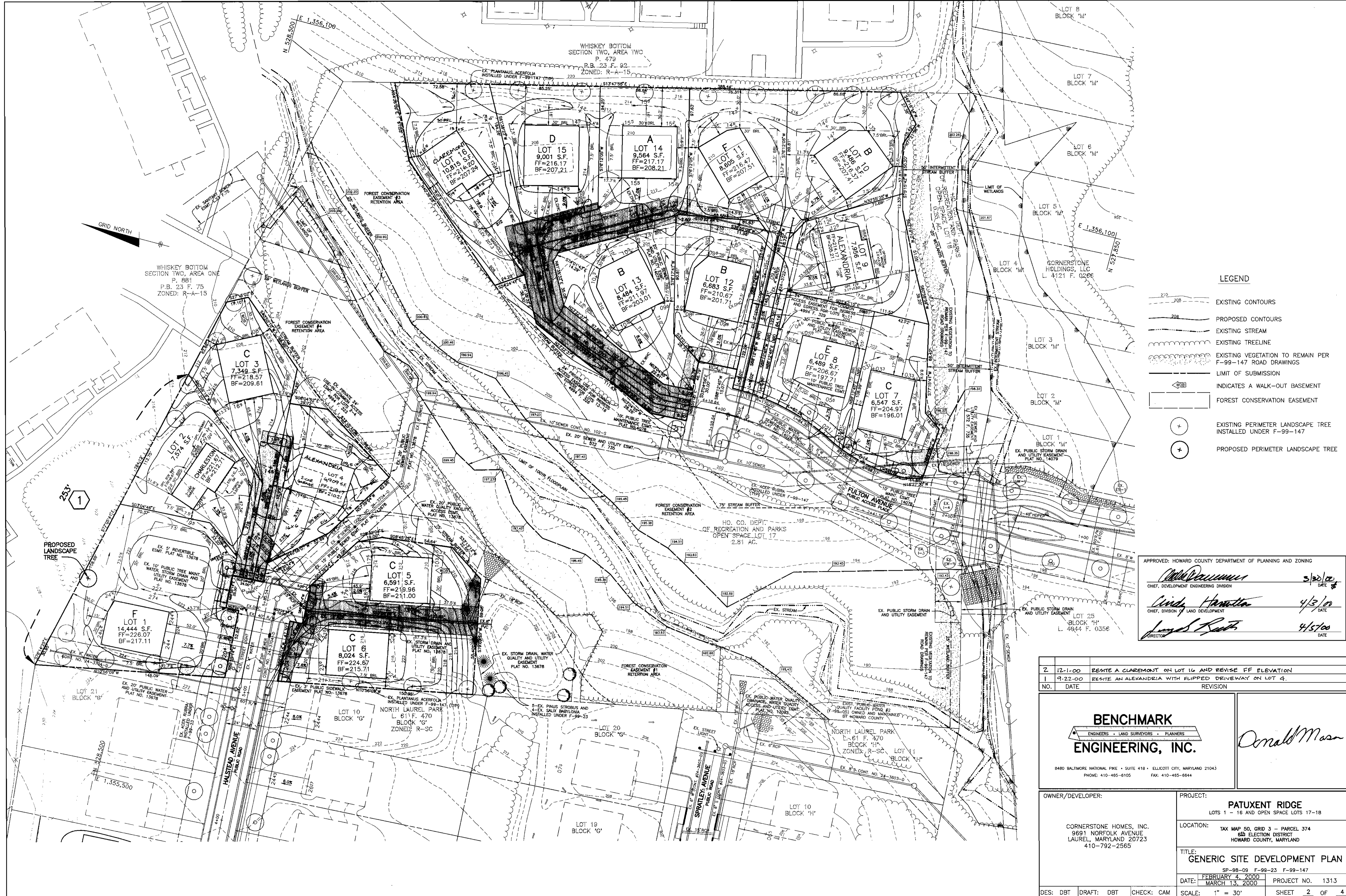
BENCHMARK ENGINEERING, INC.

ENGINEERS • LAND SURVEYORS • PLANNERS

Donald Mason

8480 BALTIMORE NATIONAL PIKE • SUITE 418 • ELLICOTT CITY, MARYLAND 21043
PHONE: 410-465-6105 FAX: 410-465-8644

OWNER/DEVELOPER:	PROJECT:
CORNERSTONE HOMES, INC. 9691 NORFOLK AVENUE LAUREL, MARYLAND 20723 410-792-2565	PATUXENT RIDGE LOTS 2-16, 19, 20 AND OPEN SPACE LOTS 17-18
LOCATION:	TITLE:
TAX MAP 50, GRID 3 - PARCEL 374 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	TITLE SHEET SITE DEVELOPMENT PLAN
DATE: FEBRUARY 4, 2000 MARCH 13, 2000	PROJECT NO. 1313
DES: DBT DRAFT: DBT CHECK: CAM	SCALE: AS SHOWN SHEET 1 OF 4



LEGEND

- EXISTING CONTOURS
- PROPOSED CONTOURS
- EXISTING STREAM
- EXISTING TREELINE
- EXISTING VEGETATION TO REMAIN PER F-99-147 ROAD DRAWINGS
- LIMIT OF SUBMISSION
- INDICATES A WALK-OUT BASEMENT
- FOREST CONSERVATION EASEMENT
- EXISTING PERIMETER LANDSCAPE TREE INSTALLED UNDER F-99-147
- PROPOSED PERIMETER LANDSCAPE TREE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

John P. ... 3/30/00
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
Andy ... 4/3/00
 CHIEF, DIVISION OF LAND DEVELOPMENT
... 4/5/00
 DIRECTOR

NO.	DATE	REVISION
2	12-1-00	RESITE A CLAREMONT ON LOT 16 AND REVISE FF ELEVATION
1	9-22-00	RESITE AN ALEXANDRIA WITH RIPPED DRIVEWAY ON LOT 4.

BENCHMARK
 ENGINEERS • LAND SURVEYORS • PLANNERS

Donald Mason

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 PHONE: 410-465-6105 FAX: 410-465-6844

OWNER/DEVELOPER: CORNERSTONE HOMES, INC. 9691 NORFOLK AVENUE LAUREL, MARYLAND 20723 410-792-2565	PROJECT: PATUXENT RIDGE LOTS 1 - 16 AND OPEN SPACE LOTS 17-18
LOCATION: TAX MAP 50, GRID 3 - PARCEL 374 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	TITLE: GENERIC SITE DEVELOPMENT PLAN SP-98-09 F-98-23 F-99-147
DATE: FEBRUARY 4, 2000 MARCH 13, 2000	PROJECT NO. 1313
DES: DBT DRAFT: DBT CHECK: CAM	SCALE: 1" = 30' SHEET 2 OF 4

SEDIMENT CONTROL NOTES

- A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTION, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION. (131-1850).
- 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. REVISIONS THERE TO.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, Dikes, PERMETER SLOPES AND ALL SLOPES GREATER THAN 3:1. 14 DAYS AS TO ALL OTHERS DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPS/BASINS 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.
- 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 SEEDINGS (SEC. 51) SOO (SEC. 54), TEMPORARY SEEDING (SEC. 52) AND REPAIRING (SEC. 53) REQUIREMENTS. STABILIZATION WITH MULCH ALONE CAN ONLY 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 PERMITS FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:

TOTAL AREA OF SITE (THIS SUBMISSION)	3.08	ACRES
AREA DISTURBED	3.08	ACRES
AREA TO BE ROOFED OR PAVED	1.02	ACRES
AREA TO BE VEGETATIVELY STABILIZED	2.07	ACRES
TOTAL CUT	6623	CY
TOTAL FILL	8987	CY
OFFSITE WASTE/BORROW AREA LOCATION	*	
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY THE SOIL/BORROW SITE AND NOTIFY AND OBTAIN APPROVAL FROM THE SEDIMENT CONTROL INSPECTOR OF THE SITE AND ITS GRADING PERMIT NUMBER AT THE TIME OF CONSTRUCTION.
- ANY SEDIMENT CONTROL PRACTICE WHICH IS OBTAINED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING, OTHER BUILDING OR CRUISING INSPECTION APPROVALS MAY NOT BE OBTAINED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIECE LENGTHS OR THAT WHICH CAN BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

TOPSOIL SPECIFICATIONS

- Topsoil salvaged from the existing site may be used provided that it meets that 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 the U.S. Department of Agriculture in cooperation with Maryland Agricultural Experiment Station.
- Topsoil Specifications - Soil to be used as topsoil must meet the following:
 - Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting texture subsoils and soil contain less than 3% by weight of charcoal, stones, clumps, twigs, roots, trash, or other materials larger than 1-1/2" in diameter.
 - Topsoil must be free of plants or plant parts such as Bermuda grass, quack grass, Johnson grass, nutgrass, poison ivy, thistle, or others as specified.
 - 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 1,000 square feet) 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.
- For sites having disturbed areas under 5 acres:
 - Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section 1 - Vegetative Stabilization Methods and Materials.
- For sites having disturbed areas over 5 acres:
 - On soil meeting topsoil specifications, obtain test results detailing fertilizer and lime amendments required to bring the soil into compliance with the following:
 - 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.
 - Organic content of topsoil shall be not less than 1.5 percent by weight.
 - Topsoil having soluble salt content greater than 500 parts per million shall not be used.
 - No rod or seed shall be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of phytotoxic materials.
 - 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.
 - Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section 1 - Vegetative Stabilization Methods and Materials.
- Topsoil Application
 - 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.
 - Grades on the areas to be topsoiled, which have been previously established, shall be maintained, unless 4" - 8" higher in elevation.
 - Topsoil shall be uniformly distributed in a 4" - 6" layer and lightly compacted to a minimum thickness of 4". Spreading shall be performed in such a manner that mounding or heaping or seeding 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.
 - Topsoil shall not be placed 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 needed preparation.
- Alternative for Permanent Seeding - Instead of applying the full amounts of lime and commercial fertilizer, composted sludge and amendments may be applied as specified below:
 - Composted Sludge Material for use as a soil conditioner for sites having disturbed areas over 5 acres shall be tested to provide amendments and for sites having disturbed areas under 5 acres shall conform to the following requirements:
 - Composted sludge shall be supplied by, or originate from, a person or persons that are permitted (at the time of acquisition of the compost) by the Maryland Department of the Environment under COMAR 26.04.06.
 - Composted sludge shall contain at least 1 percent nitrogen, 1.5 percent phosphorus, and 0.2 percent potassium and have a pH of 7.0 to 8.0. If compost does not meet these requirements, the appropriate constituents must be added to meet the requirements prior to use.
 - Composted sludge shall be applied at a rate of 1 ton/1,000 square feet.
 - Composted sludge shall be amended with a potassium fertilizer applied at the rate of 4 lb/1,000 square feet, and 1/3 the normal lime application rate.

TEMPORARY SEEDBED PREPARATIONS

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED TO PREVENT EROSION.

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

SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ FT).

SEEDING: FOR PERIODS MARCH 1 THROUGH APRIL 30 AND FROM AUGUST 15 THROUGH NOVEMBER 15, SEED WITH 2-1/2 BUSHELS PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ FT). FOR PERIOD MAY 1 THROUGH AUGUST 14, SEED WITH 3 LBS PER ACRE OF WHEAT/RYEGRASS (0.7 LBS/1000 SQ FT). FOR PERIOD NOVEMBER 16 THROUGH FEBRUARY 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 SOO.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ FT) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ FT) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES, 8 FT. OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ FT) FOR ANCHORING.

REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

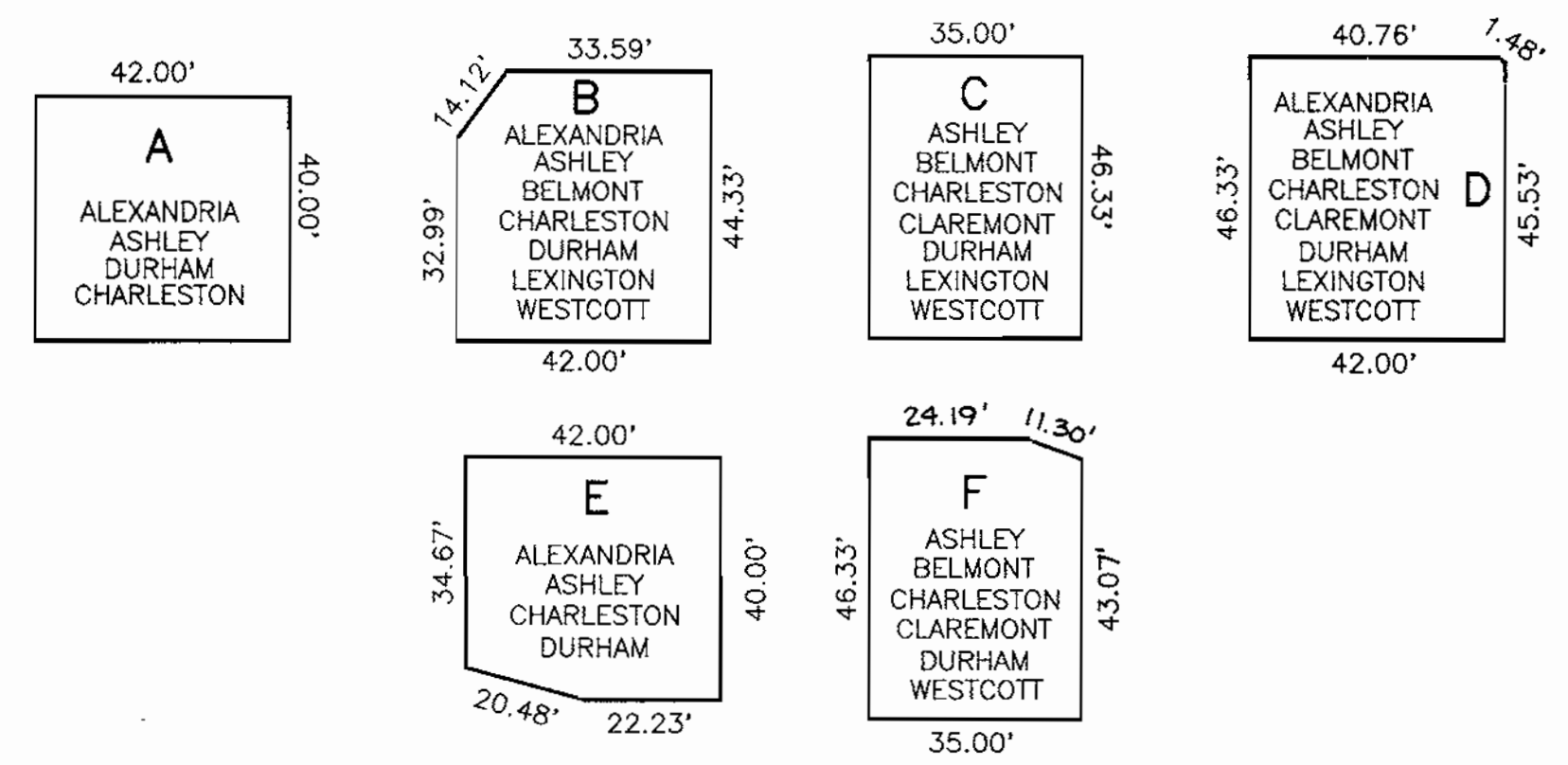
SEQUENCE OF CONSTRUCTION

- NOTIFY SEDIMENT CONTROL DIVISION 48 HOURS PRIOR TO START OF CONSTRUCTION
- DAY 1 - 1) OBTAIN GRADING PERMIT.
- DAY 2-8 2) INSTALL SEDIMENT CONTROLS THAT ARE NOTED TO BE INSTALLED UNDER THIS SDP. THE EXISTING CONTROLS THAT WERE INSTALLED UNDER F-99-147 THAT ARE TO REMAIN SHALL BE INSPECTED AND/OR MODIFIED AS SHOWN ON PLAN TO ENSURE THEY MEET COMPLIANCE WITH SPECIFICATIONS. ANY REMAINING CONTROLS INSTALLED UNDER F-99-147 THAT WILL NOT BE UTILIZED UNDER THIS SDP SHALL BE REMOVED BY THE DEVELOPER.
- DAY 9-12 3) EXCAVATE FOR FOUNDATIONS, ROUGH GRADE AND STABILIZE IN ACCORDANCE WITH TEMPORARY SEEDBED NOTES.
- DAY 13-82 4) CONSTRUCT HOUSES, BACKFILL AND CONSTRUCT DRIVEWAYS.
- DAY 83-87 5) FINAL GRADE AND STABILIZE IN ACCORDANCE WITH PERMANENT SEEDBED NOTES AND FLUSH STRIP GRASS SYSTEM.
- DAY 88-91 6) WITH THE APPROVAL OF THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL DEVICES AND STABILIZE ANY REMAINING DISTURBED AREAS.

INDICATES SINGLE HOUSE CONSTRUCTION.

NOTE: 1. SEDIMENT CONTROL LOCATION AND IMPLEMENTATION SHOWN ON THESE PLANS IS SUBJECT TO REVISION IN THE FIELD AT THE DISCRETION OF THE SEDIMENT CONTROL INSPECTOR.

2. EROSION CONTROL MATTING SHALL BE PLACED IN SWALES WHERE DEEMED NECESSARY UNTIL VEGETATION IS ESTABLISHED OR SOLID SOO SHOULD BE USED.



GENERIC BOXES
SCALE: 1" = 30'

OPTIONS CHART
NOTE: THE OPTIONS LISTED IN THIS CHART ARE OPTIONS WHICH "WILL" FIT WITHIN THE GENERIC BOX FOOTPRINT.

	ALEXANDRIA	ASHLEY	BELMONT	CHARLESTON	CLAREMONT	DURHAM	LEXINGTON	WESTCOTT
BOX A	YES	YES	X	YES	X	YES	X	X
BOX B	** YES	YES	YES	YES	X	YES	YES	YES
BOX C	X	YES	YES	YES	YES	YES	YES	YES
BOX D	YES	YES	YES	YES	YES	YES	YES	YES
BOX E	YES	YES	X	YES	X	YES	X	X
BOX F	X	YES	YES	YES	YES	YES	X	YES

* WILL NOT ACCEPT A OPT. #4 ON THE CLAREMONT ON LOT 1.

** ALEXANDRIA WILL ONLY FIT ON LOT 13 IF DRIVEWAY IS "FLIPPED". THIS WILL REQUIRE A HOUSE TYPE REVISION.

- OPTIONS LEGEND:
- = KITCHEN EXTENSION
 - = 2-CAR GARAGE
 - = BREAKFAST NOOK
 - = EXT. FAMILY ROOM
 - = 1-CAR GARAGE
 - = FAM. ROOM BEHIND 1-CAR GARAGE (CHARLESTON ONLY)

LOT/BOX CHART

LOT #	BOX	LOT #	BOX
LOT 2	CHARLESTON	LOT 10	B
LOT 3	CLAREMONT	LOT 11	F
LOT 4	ALEXANDRIA	LOT 12	B
LOT 5	C	LOT 13	B
LOT 6	C	LOT 14	A
LOT 7	C	LOT 15	D
LOT 8	E	LOT 16	CLAREMONT
LOT 19	C	LOT 20	B

BY THE DEVELOPER:

"I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR 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 EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

B. D. Bay
DEVELOPER
3-12-00
DATE

BY THE ENGINEER:

"I/WE CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT 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."

Donald Mason
ENGINEER - DONALD A. MASON, P.E. # 21443
3-14-00
DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

Paul Simmons 3/28/00
MANUAL RESOURCES CONSERVATION SERVICE
DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT MEETS TECHNICAL REQUIREMENTS.

John Blanton 3/28/00
HOWARD SOIL CONSERVATION DISTRICT
DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Michael D. ...
CHIEF, DEVELOPMENT ENGINEERING DIVISION
3/30/00
DATE

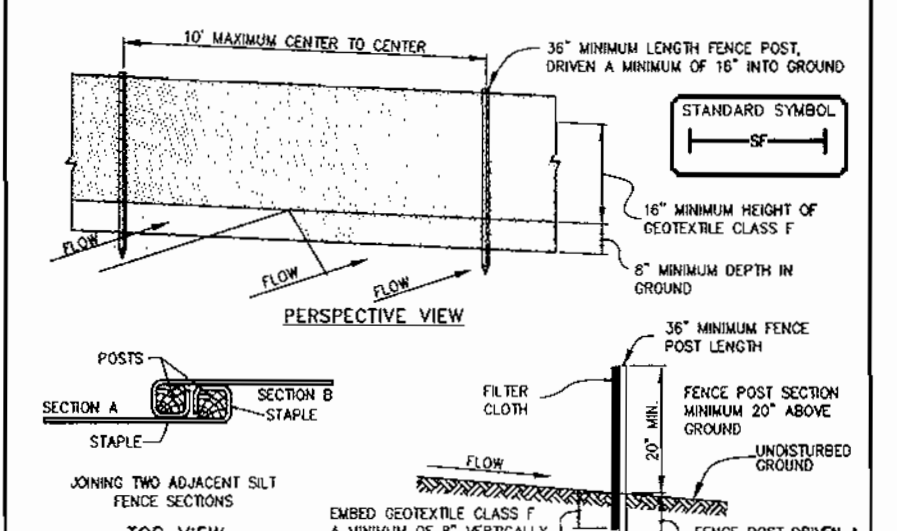
Cindy ...
CHIEF, DIVISION OF LAND DEVELOPMENT
4/3/00
DATE

...
DIRECTOR
4/5/00
DATE

PERMANENT SEEDBED PREPARATIONS

- 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:
- PREFERRED - APPLY 2 TONS PER ACRE DOLICMITIC LIMESTONE (92 LBS/1000 SQ FT) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ FT) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL AT TIME OF SEEDING. APPLY 400 LBS PER ACRE 30-0-0-0 UREA-FORMALDEHYDE FERTILIZER (9 LBS/1000 SQ FT).
 - ACCEPTABLE - APPLY 2 TONS PER ACRE DOLICMITIC LIMESTONE (92 LBS/1000 SQ FT) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (21 LBS/1000 SQ FT) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.
- SEEDING: FOR THE PERIODS MARCH 1 THROUGH APRIL 30 AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 40 LBS PER ACRE (1.4 LBS/1000 SQ FT) OF KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (0.5 LBS/1000 SQ FT) OF WHEAT/RYEGRASS. DURING THE PERIOD OF OCTOBER 16 THROUGH FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOO. OPTION (3) SEED WITH 40 LBS PER ACRE OF KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS PER ACRE OF WELL ANCHORED STRAW.
- MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ FT) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ FT) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ FT) FOR ANCHORING.
- MAINTENANCE: INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

DETAIL 22 - SILT FENCE



- CONSTRUCTION NOTES FOR FABRICATED SILT FENCE
- Fence posts shall be a minimum of 3/4" long driven 16" minimum into the ground. Round posts shall be minimum of 1 1/2" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard 2" O.D. section weighing not less than 10 lbs/foot.
 - Geotextile shall be fastened securely to each fence post with wire ties or staples of top and mid-section and shall meet the following requirements for Geotextile Class F:

Tensile Strength	50 lbs/in. (min.)	Test: MSMT 509
Tensile Modulus	20 lbs/in. (min.)	Test: MSMT 509
Flow Rate	0.3 gpl/ft. (max.)	Test: MSMT 522
Filtering Efficiency	75% (min.)	Test: MSMT 522
 - Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
 - Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reaches 50% of the fabric height.

U.S. DEPARTMENT OF AGRICULTURE PAGE 1-15-3
MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

SILT FENCE

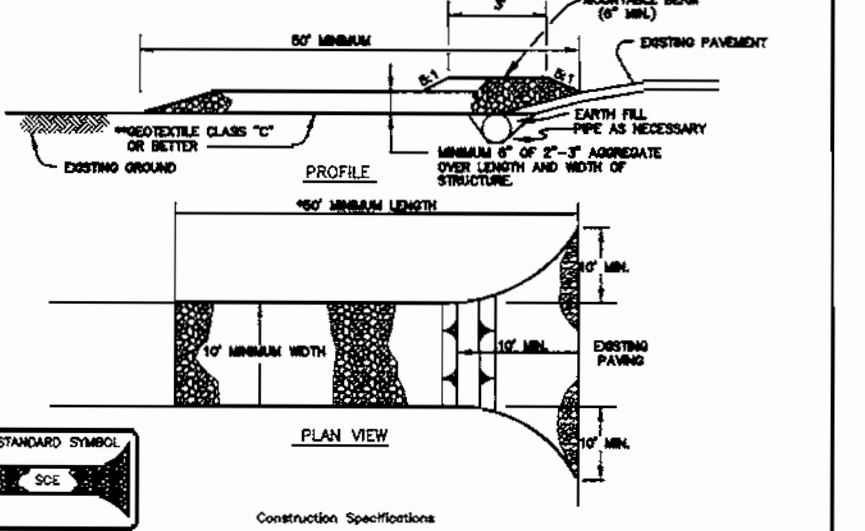
SILT FENCE DESIGN CRITERIA

Slope Steepness	(Maximum) Slope Length	(Maximum) Silt Fence Length
Flatter than 50:1	unlimited	unlimited
50:1 to 10:1	125 feet	1,000 feet
10:1 to 5:1	100 feet	750 feet
5:1 to 3:1	100 feet	500 feet
3:1 to 2:1	40 feet	250 feet
2:1 and steeper	20 feet	125 feet

Note: In areas of less than 2X slope and sandy soils (USDA general classification system, soil Class A) maximum slope length and silt fence length will be limited. In these areas a silt fence may be the only perimeter control required.

U.S. DEPARTMENT OF AGRICULTURE PAGE 1-15-3A
MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

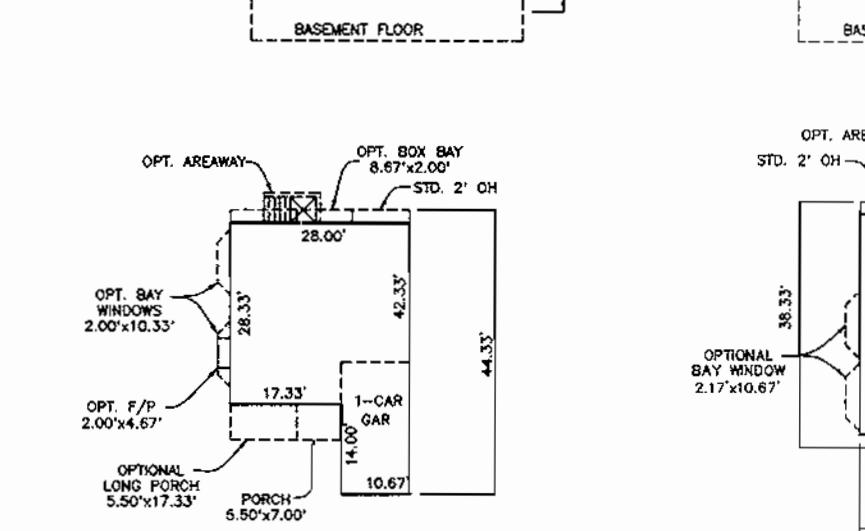
DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE



- CONSTRUCTION SPECIFICATIONS
- Length - minimum of 50' (30' for steep resistance).
 - Width - 10' minimum, should be flared at the exiting road to provide a landing zone.
 - Geotextile fabric (other than straw) shall be placed over the existing ground prior to placing stone. The geotextile fabric shall be secured to the existing ground with staples or pins.
 - Staples - normal staples (2" to 3") or stainless or recycled concrete equivalent, shall be placed at least 6" deep over the length and width of the entrance.
 - Surface Water - all surface water flowing to or diverted through construction entrances shall be piped through the entrance, maintaining sufficient drainage. Pipe installed through the stabilized construction entrance shall be protected with extended berm with 2:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be laid according to the drainage when the pipe is located at a high spot and has no drainage to nearby pipe will not be necessary. Pipe should be sized according to the capacity of catch to be conveyed. A 6" diameter will be required.
 - Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

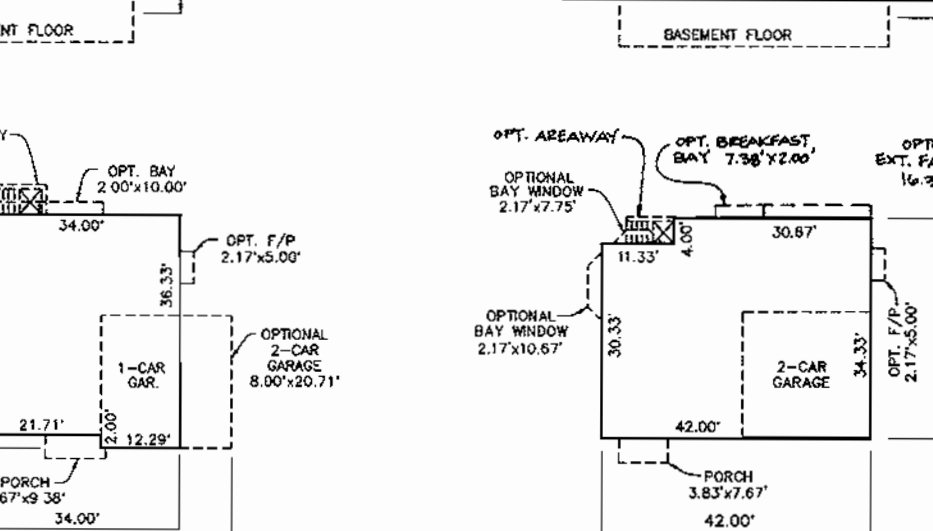
U.S. DEPARTMENT OF AGRICULTURE PAGE F-17-3
MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

ASHLEY



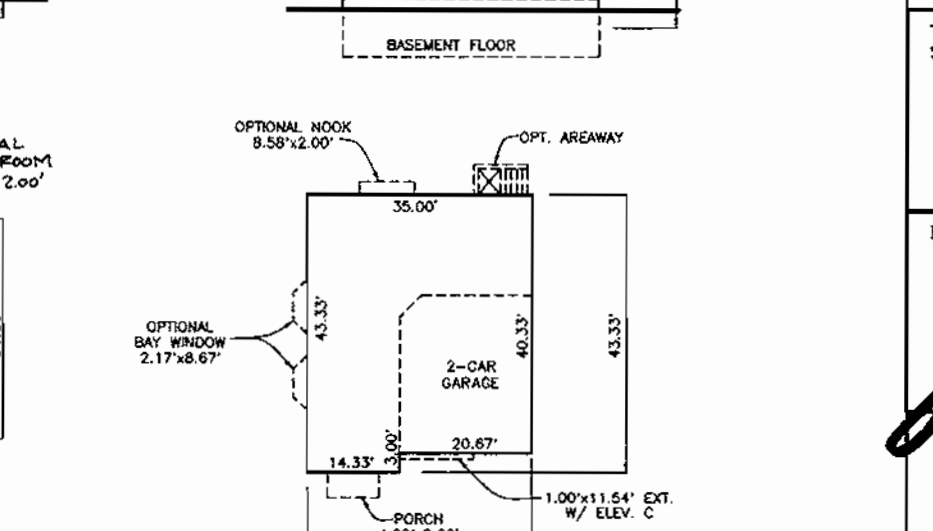
ASHLEY
ISSUE: 11/17/93
REVISION: 11/23/94

CLAREMONT



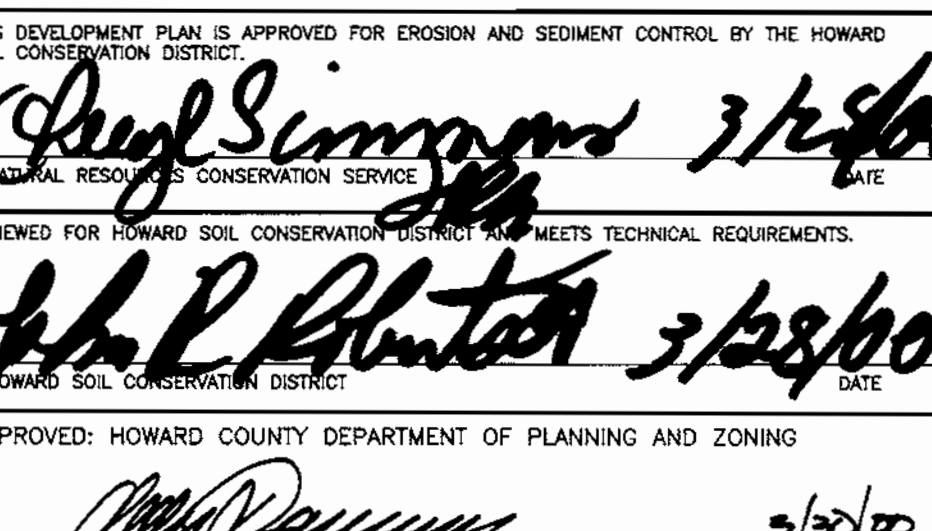
CLAREMONT
ISSUE: 6/14/97
REVISION: N/A

BELMONT



BELMONT
ISSUE: 11/10/98
REVISION: N/A

CHARLESTON

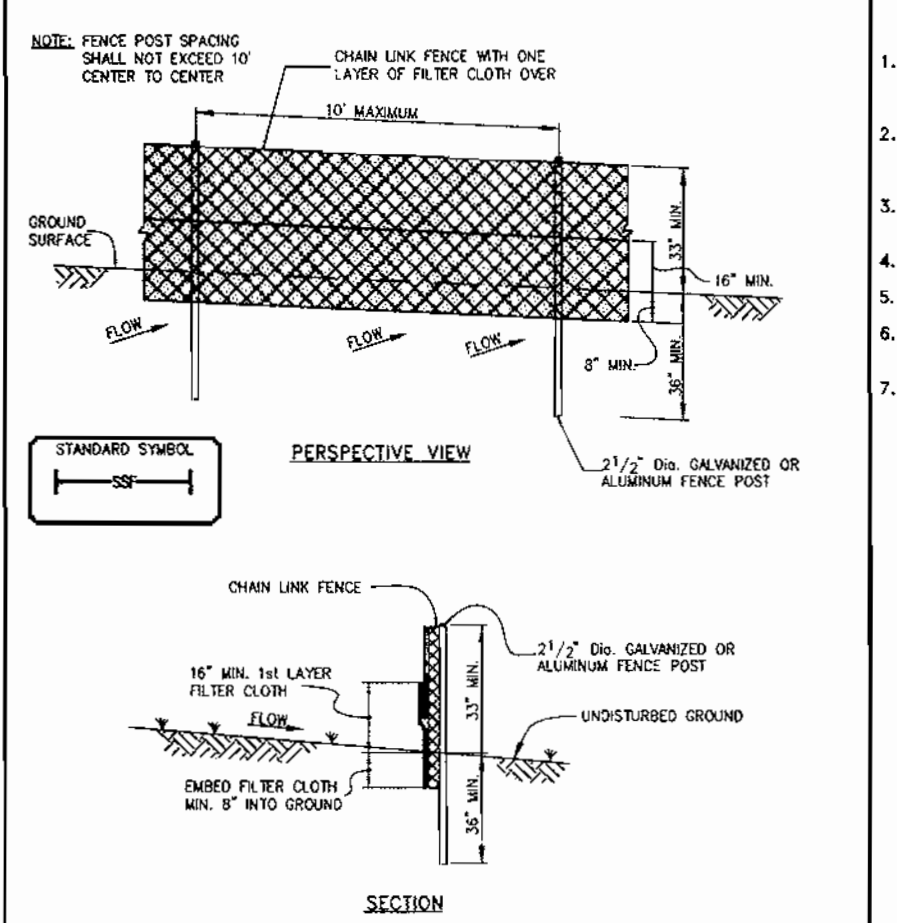


CHARLESTON
ISSUE: 8/14/97
REVISION: 9/1/98

HOUSE FOOTPRINTS

SCALE: 1" = 30'

DETAIL 33 - SUPER SILT FENCE



U.S. DEPARTMENT OF AGRICULTURE PAGE H-26-3
MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

SUPER SILT FENCE

CONSTRUCTION SPECIFICATIONS

- Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Design for Chain Link Fencing. The specification for a 6" fence shall be used, substituting 42" fabric and 6" height posts for the 36" fence.
- Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, braces and truss rods, drive anchors and post caps are not required except on the ends of the fence.
- Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" of the top and mid section.
- Filter cloth shall be embedded a minimum of 8" into the ground.
- When two sections of filter cloth adjoin each other, they shall be overlapped by 8" and folded.
- Maintenance shall be performed as needed and silt buildup removed when "bulges" develop in the silt fence, or when silt reaches 50% of fence height.
- Filter cloth shall be fastened securely to each fence post with wire ties or staples of top and mid section and shall meet the following requirements for Geotextile Class F:

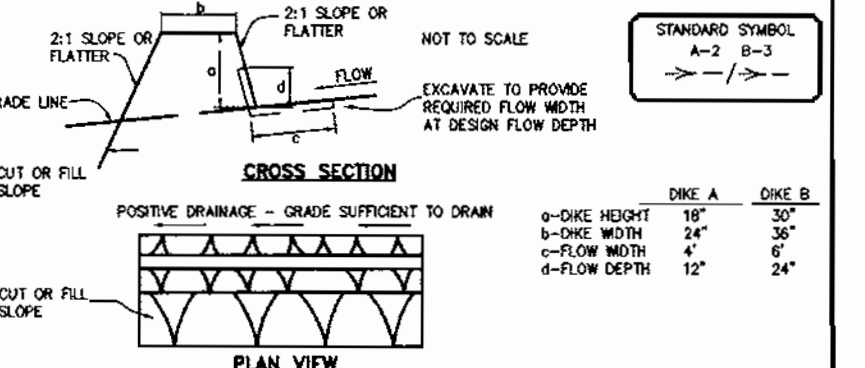
Tensile Strength	50 lbs/in. (min.)	Test: MSMT 509
Tensile Modulus	20 lbs/in. (min.)	Test: MSMT 509
Flow Rate	0.3 gpl/ft. (max.)	Test: MSMT 522
Filtering Efficiency	75% (min.)	Test: MSMT 522

SUPER SILT FENCE DESIGN CRITERIA

Slope Steepness	Slope Length (Maximum)	Silt Fence Length
0 - 10%	0 - 10:1	Unlimited
10 - 20%	10:1 - 5:1	200 feet
20 - 33%	5:1 - 3:1	100 feet
33 - 50%	3:1 - 2:1	100 feet
50% +	2:1 +	50 feet

U.S. DEPARTMENT OF AGRICULTURE PAGE E-26-3A
MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

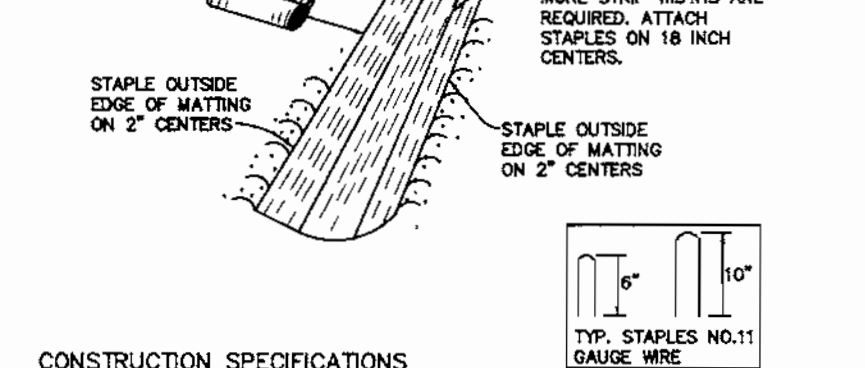
DETAIL 1 - EARTH DIKE



- CONSTRUCTION SPECIFICATIONS
- Seed and cover with straw mulch.
 - Seed and cover with Erosion Control Matting or straw with sod.
 - 4" - 7" stone or recycled concrete equivalent placed into the soil 7" minimum.
- CONSTRUCTION SPECIFICATIONS
- All temporary earth dikes shall have underdrains positive grade to an outlet. Spot elevations may be necessary for positive grade.
 - Runoff diverted from a disturbed area shall be conveyed to a sediment trapping device.
 - Runoff diverted from an undisturbed area shall outlet directly into an undisturbed, stabilized area on a non-erosive roadway.
 - All trees, brush, stumps, obstructions and other objectional material shall be removed and disposed of so as not to interfere with the proper functioning of the dike.
 - The dike shall be excavated or topped to line, grade and cross section as required to meet the criteria specified herein and be free of bank projections or other irregularities which will impede normal flow.
 - Fill shall be compacted by earth moving equipment.
 - All earth removed and not needed for construction shall be placed so that it will not interfere with the functioning of the dike.
 - Inspection and maintenance must be provided periodically and after each rain event.

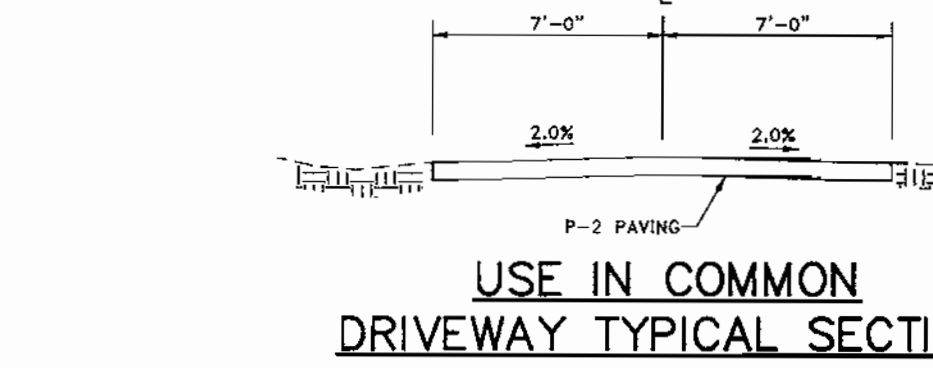
U.S. DEPARTMENT OF AGRICULTURE PAGE A-1-6
MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

WESTCOTT



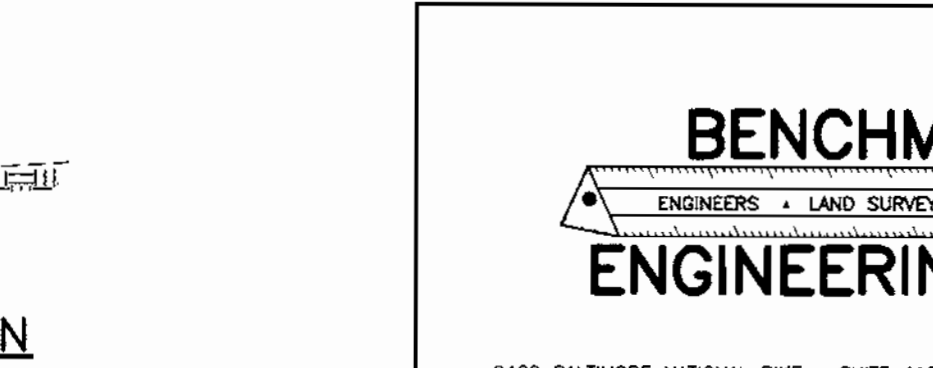
WESTCOTT
ISSUE: 4/29/96
REVISION: N/A

DURHAM



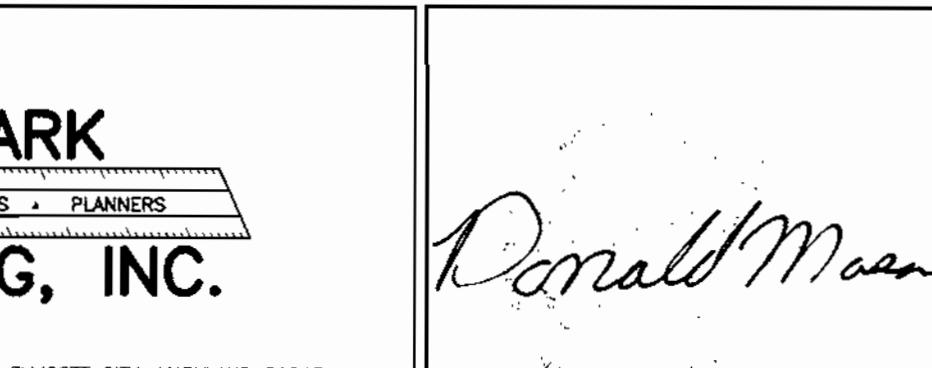
DURHAM
ISSUE: N/A
REVISION: N/A

ALEXANDRIA



ALEXANDRIA
ISSUE: 8/14/97
REVISION: 9/1/98

LEXINGTON



LEXINGTON
ISSUE: 11/6/97
REVISION: 1/17/98

SOIL STABILIZATION MATTING

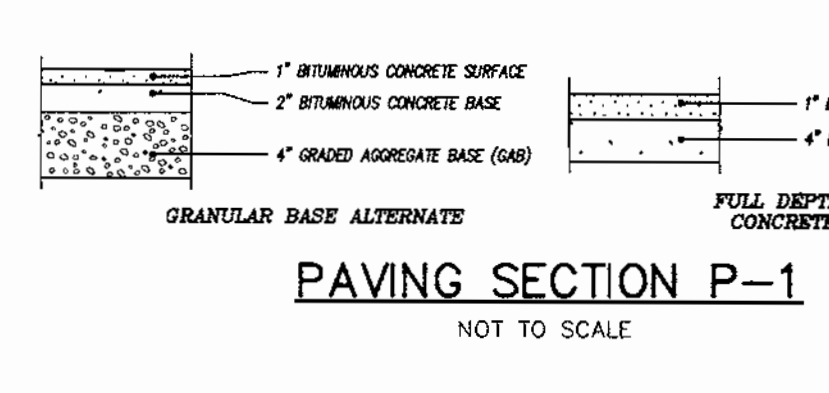
NOT TO SCALE

USE IN COMMON DRIVEWAY TYPICAL SECTION



NOT TO SCALE

PAVING SECTION P-1



NOT TO SCALE

NO.	DATE	REVISION
2	2-26-01	ADD EXT. FAM. ROOM AND OPT. BREAKFAST BAY TO ALEXANDRIA MODEL.
1	1-3-01	HOUSE ON LOT 20, REVISE CHARTS.

BENCHMARK ENGINEERING, INC.
ENGINEERS • LAND SURVEYORS • PLANNERS

8480 BALTIMORE NATIONAL PIKE • SUITE 418 • ELICOTT CITY, MARYLAND 21043
PHONE: 410-465-8105 FAX: 410-465-8644

OWNER/DEVELOPER: **PATUXENT RIDGE**
Lots 2-16, 20 AND OPEN SPACE LOTS 17-18

PROJECT: **CORNERSTONE HOMES, INC.**
9691 NORFOLK AVENUE
LAUREL, MARYLAND 20723
410-792-2565

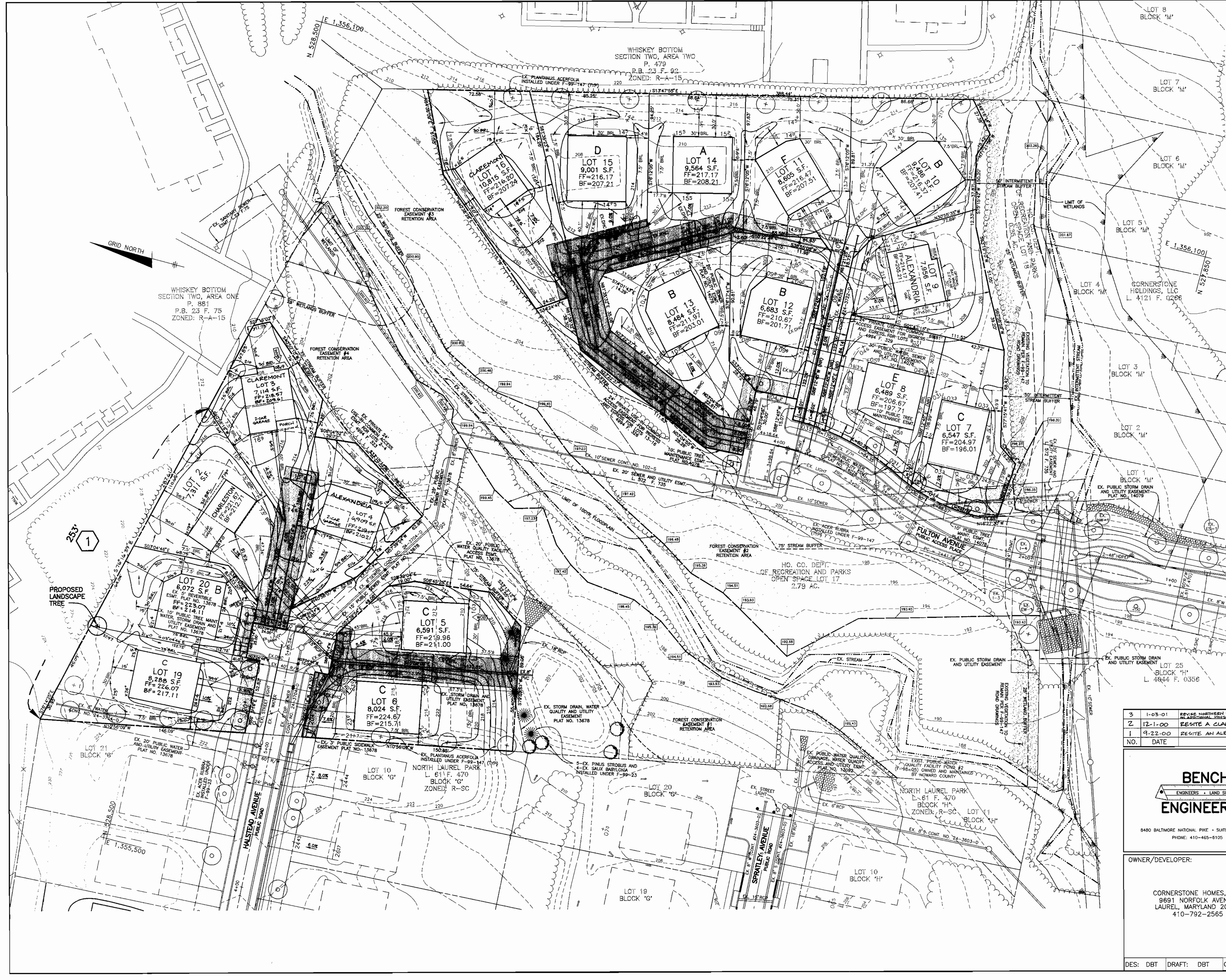
LOCATION: TAX MAP 50, GRID 3 - PARCEL 374
6th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE: **SEDIMENT AND EROSION CONTROL NOTES AND DETAILS HOUSE FOOTPRINTS AND BOX DETAILS SHEET**
SP-98-09 F-99-23 F-99-147 F-01-44 F-01-45

DATE: FEBRUARY 4, 2000
MARCH 13, 2000

PROJECT NO. 1313

DES: DBT DRAFT: DBT CHECK: CAM SCALE: AS SHOWN SHEET 4 OF 4



- LEGEND**
- EXISTING CONTOURS
 - PROPOSED CONTOURS
 - EXISTING STREAM
 - EXISTING TREELINE
 - EXISTING VEGETATION TO REMAIN PER F-99-147 ROAD DRAWINGS
 - LIMIT OF SUBMISSION
 - INDICATES A WALK-OUT BASEMENT
 - FOREST CONSERVATION EASEMENT
 - EXISTING PERIMETER LANDSCAPE TREE INSTALLED UNDER F-99-147
 - PROPOSED PERIMETER LANDSCAPE TREE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chad Dammann 5/30/02
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Cindy Hamilton 4/3/02
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Loylee R. Smith 4/5/02
 DIRECTOR DATE

NO.	DATE	REVISION
3	1-03-01	REVISE NORTHERN BOUNDARY LINE, SITE CLAREMONT ON LOT 3, CONVERT LOT 1 INTO LOTS 19 AND 20 CREATING AN ADJACENT LOT TO LOT 20
2	12-1-00	RESITE A CLAREMONT ON LOT 16 AND REVISE FF ELEVATION
1	9-22-00	RESITE AN ALEXANDRIA WITH FLIPPED DRIVEWAY ON LOT 4.

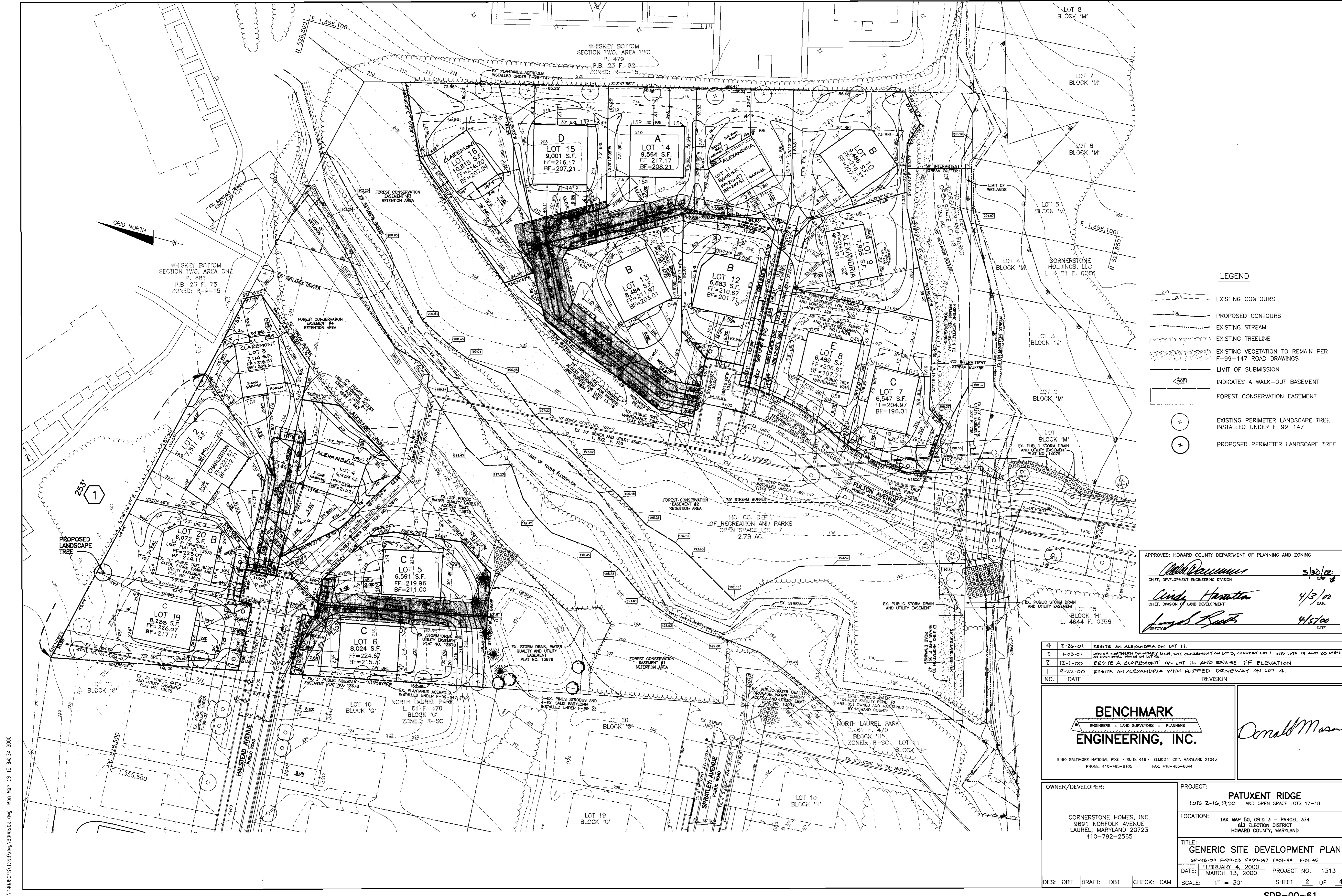
BENCHMARK
 ENGINEERS • LAND SURVEYORS • PLANNERS

Donald Mason

8480 BALTIMORE NATIONAL PIKE • SUITE 418 • ELLICOTT CITY, MARYLAND 21045
 PHONE: 410-465-8105 FAX: 410-465-8644

OWNER/DEVELOPER:	PROJECT:
CORNERSTONE HOMES, INC. 8881 NORFOLK AVENUE LAUREL, MARYLAND 20723 410-792-2565	PATUXENT RIDGE LOTS 2-16, 19, 20 AND OPEN SPACE LOTS 17-18
LOCATION:	TITLE:
TAX MAP 50, GRID 3 - PARCEL 374 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	GENERIC SITE DEVELOPMENT PLAN SP-98-09 F-99-23 F-99-147 F-01-44 F-01-45
DATE: FEBRUARY 4, 2000 MARCH 13, 2000	PROJECT NO. 1313
DES: DBT DRAFT: DBT CHECK: CAM	SCALE: 1" = 30' SHEET 2 OF 4

P:\PROJECTS\1313\Map\15000502.dwg Mon Mar 13 15:34:34 2000



WHISKEY BOTTOM SECTION TWO, AREA ONE P. 881 P.B. 23 F. 75 ZONED: R-A-15

WHISKEY BOTTOM SECTION TWO, AREA TWO P. 479 P.B. 23 F. 92 ZONED: R-A-15

LEGEND

- EXISTING CONTOURS
- PROPOSED CONTOURS
- EXISTING STREAM
- EXISTING TREELINE
- EXISTING VEGETATION TO REMAIN PER F-99-147 ROAD DRAWINGS
- LIMIT OF SUBMISSION
- INDICATES A WALK-OUT BASEMENT
- FOREST CONSERVATION EASEMENT
- EXISTING PERIMETER LANDSCAPE TREE INSTALLED UNDER F-99-147
- PROPOSED PERIMETER LANDSCAPE TREE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

William D. ... 3/20/00
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Cindy Hamilton 4/3/00
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

James P. ... 4/5/00
 DIRECTOR DATE

NO.	DATE	REVISION
4	2-26-01	RESITE AN ALEXANDRIA ON LOT 11.
3	1-03-01	REVISE NORTHERN BOUNDARY LINE, SITE CLAREMONT ON LOT 3, CONVERT LOT 1 INTO LOTS 19 AND 20 CREATING AN ADDITIONAL HOUSE ON LOT 20.
2	12-1-00	RESITE A CLAREMONT ON LOT 16 AND REVISE FF ELEVATION
1	9-22-00	RESITE AN ALEXANDRIA WITH FLIPPED DRIVEWAY ON LOT 4.

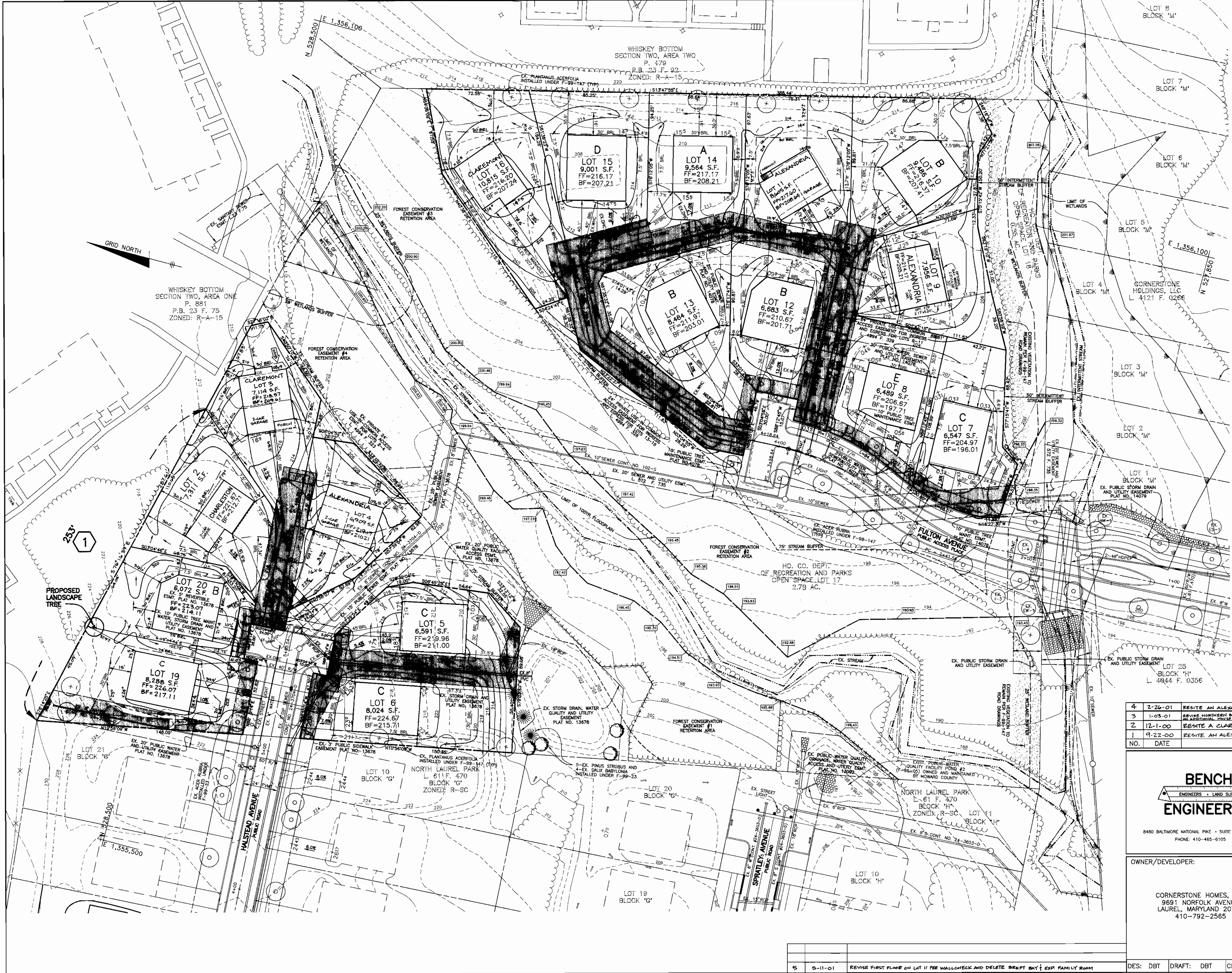
BENCHMARK ENGINEERING, INC.

ENGINEERS • LAND SURVEYORS • PLANNERS

8480 BALTIMORE NATIONAL PIKE • SUITE 418 • ELLICOTT CITY, MARYLAND 21043
 PHONE: 410-485-6105 FAX: 410-485-6644

Donald Mason

OWNER/DEVELOPER: CORNERSTONE HOMES, INC. 9691 NORFOLK AVENUE LAUREL, MARYLAND 20723 410-792-2565	PROJECT: PATUXENT RIDGE LOTS 2-16, 19, 20 AND OPEN SPACE LOTS 17-18
LOCATION: TAX MAP 50, GRID 3 - PARCEL 374 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	TITLE: GENERIC SITE DEVELOPMENT PLAN SP-98-09 F-99-23 F-99-147 F-01-44 F-01-45
DATE: FEBRUARY 4, 2000 MARCH 13, 2000	PROJECT NO. 1313
DES: DBT DRAFT: DBT CHECK: CAM	SCALE: 1" = 30' SHEET 2 OF 4



- LEGEND**
- EXISTING CONTOURS
 - PROPOSED CONTOURS
 - EXISTING STREAM
 - EXISTING TREELINE
 - EXISTING VEGETATION TO REMAIN PER F-99-147 ROAD DRAWINGS
 - LIMIT OF SUBMISSION
 - INDICATES A WALK-OUT BASEMENT
 - FOREST CONSERVATION EASEMENT
 - EXISTING PERIMETER LANDSCAPE TREE INSTALLED UNDER F-99-147
 - PROPOSED PERIMETER LANDSCAPE TREE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

John DeWitt 5/20/00
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Cindy Hamilton 4/13/00
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

James S. Ruff 4/15/00
 DIRECTOR DATE

NO.	DATE	REVISION
4	2-26-01	RESITE AN ALEXANDRIA ON LOT 11.
3	1-05-01	REVISE NORTHERN BOUNDARY LINE, SITE CLAREMONT ON LOTS 3, CONVERT LOT 1 INTO LOTS 19 AND 20 CREATING ALEXANDRIA, DRIVE DEL DEL.
2	12-1-00	RESITE A CLAREMONT ON LOT 16 AND REVISE FF ELEVATION
1	9-22-00	RESITE AN ALEXANDRIA WITH FLIPPED DRIVEWAY ON LOT 4.

BENCHMARK
 ENGINEERS • LAND SURVEYORS • PLANNERS

ENGINEERING, INC.

8480 BALTIMORE NATIONAL PIKE • SUITE 418 • ELLICOTT CITY, MARYLAND 21043
 PHONE: 410-465-6105 FAX: 410-465-6644

Donald Mason

OWNER/DEVELOPER: CORNERSTONE HOMES, INC. 9691 NORFOLK AVENUE LAUREL, MARYLAND 20723 410-792-2565	PROJECT: PATUXENT RIDGE LOTS 2-16, 19, 20 AND OPEN SPACE LOTS 17-18
LOCATION: TAX MAP 50, GRID 3 - PARCEL 374 818 ELECTION DISTRICT HOWARD COUNTY, MARYLAND	TITLE: GENERIC SITE DEVELOPMENT PLAN SP-99-09 F-99-23 F-99-147 F-01-44 F-01-45 DATE: FEBRUARY 4, 2000 MARCH 13, 2000 PROJECT NO. 1313
DES: DBT DRAFT: DBT CHECK: CAM	SCALE: 1" = 30' SHEET 2 OF 4

P:\PROJECTS\1313\GND\B000502.dwg Mon Mar 13 15:34:34 2000