

Detail Use-in-Common Driveway

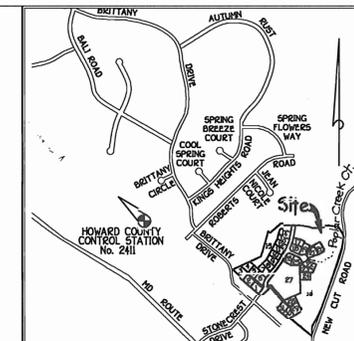
NOT TO SCALE
See General Note 23 For Additional Details

INDEX CHART	
SHEET	DESCRIPTION
SHEET 1	TITLE SHEET, NOTES AND DETAILS
SHEET 2	SITE DEVELOPMENT PLAN
SHEET 3	SEDIMENT AND EROSION CONTROL PLAN
SHEET 4	SEDIMENT AND EROSION CONTROL DETAILS

MINIMUM LOT SIZE CHART						
LOT No.	GROSS AREA	PIPESTEM AREA	REMAINING AREA	100 YEAR FLOODPLAIN	25% SLOPES	MINIMUM LOT SIZE
5	15,076 Sq Ft.	1,027 Sq Ft.	14,049 Sq Ft.	0 Sq Ft.	0 Sq Ft.	14,049 Sq Ft.

ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
1	4458 STONECREST DRIVE
5	4452 STONECREST DRIVE
6	4438 STONECREST DRIVE
7	4434 STONECREST DRIVE
8	4430 STONECREST DRIVE
9	4426 STONECREST DRIVE
11	4420 STONECREST DRIVE
12	4416 STONECREST DRIVE
13	4412 STONECREST DRIVE
14	4408 STONECREST DRIVE
25	4604 POPLAR CREEK COURT
26	4600 POPLAR CREEK COURT

BENCH MARKS
HO. CO. MONUMENT No. 2411 N 577292.80
E 1366061.29
HO. CO. MONUMENT No. 2413 N 580643.01
E 1364960.99



VICINITY MAP
SCALE: 1" = 200'

LEGEND	
Symbol	Description
+ 624	Spot Elevation
-SSP-SSP	Super Silt Fence
Proposed Walkout	Proposed Walkout
Existing Earth Dike	Existing Earth Dike
Existing Tree Line	Existing Tree Line
L.O.D.	Limit Of Disturbance
ECH	Erosion Control Matting
L.O.D.	Stone Construction Entrance
Existing Street Tree Taken From F-00-54	Existing Street Tree Taken From F-00-54
TP	Tree Protection
SF	Silt Fence
AGIP	Irrigation Protection

LANDSCAPING PLANT LIST			
QTY.	KEY	NAME	SIZE
3	(Symbol)	ACER SACCHARUM GREEN MOUNTAIN GREEN MOUNTAIN SUGAR MAPLE	2 1/2" - 3" CALIPER FULL CROWN, B&B
3	(Symbol)	PINUS STROBUS EASTERN WHITE PINE	6'-8" HGT.

SCHEDULE A PERIMETER LANDSCAPE EDGE FOR LOT 26 ONLY				
PERIMETER	CATEGORY	LANDSCAPE TYPE	LINEAR FEET OF ROADWAY FRONTAGE PERIMETER	TOTAL NUMBER OF PLANTS REQUIRED
P-1	ADJACENT TO ROADWAY	B	136'	12 SHADE, 3 EVER-GREEN TREES

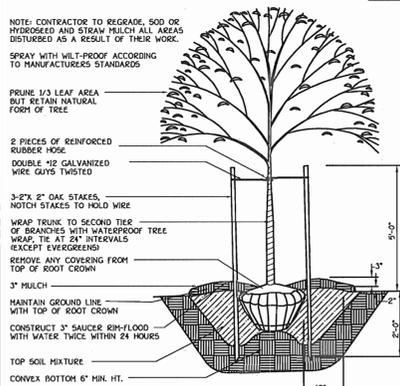
DEVELOPER'S / BUILDER'S CERTIFICATE
I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION A CERTIFICATION OF LANDSCAPE INSTALLATION ACCOMPANIED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

Signature of Developer: *W. McCam* Date: 4/26/02

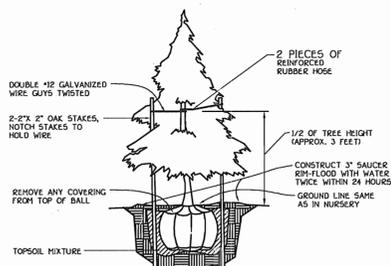
THE OWNER, TENANT, AND/OR THEIR AGENTS OF LOT 26 SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED LANDSCAPING. ALL PLANT MATERIALS SHALL BE MAINTAINED IN GOOD GROWING CONDITION, AND WHEN NECESSARY, REPLACED WITH NEW MATERIALS TO ENSURE CONTINUED COMPLIANCE WITH APPLICABLE REGULATIONS.

GENERAL NOTES:

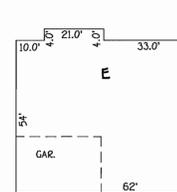
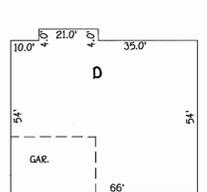
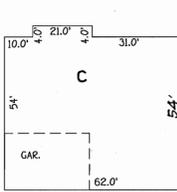
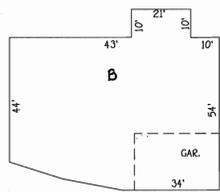
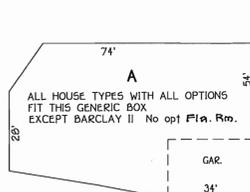
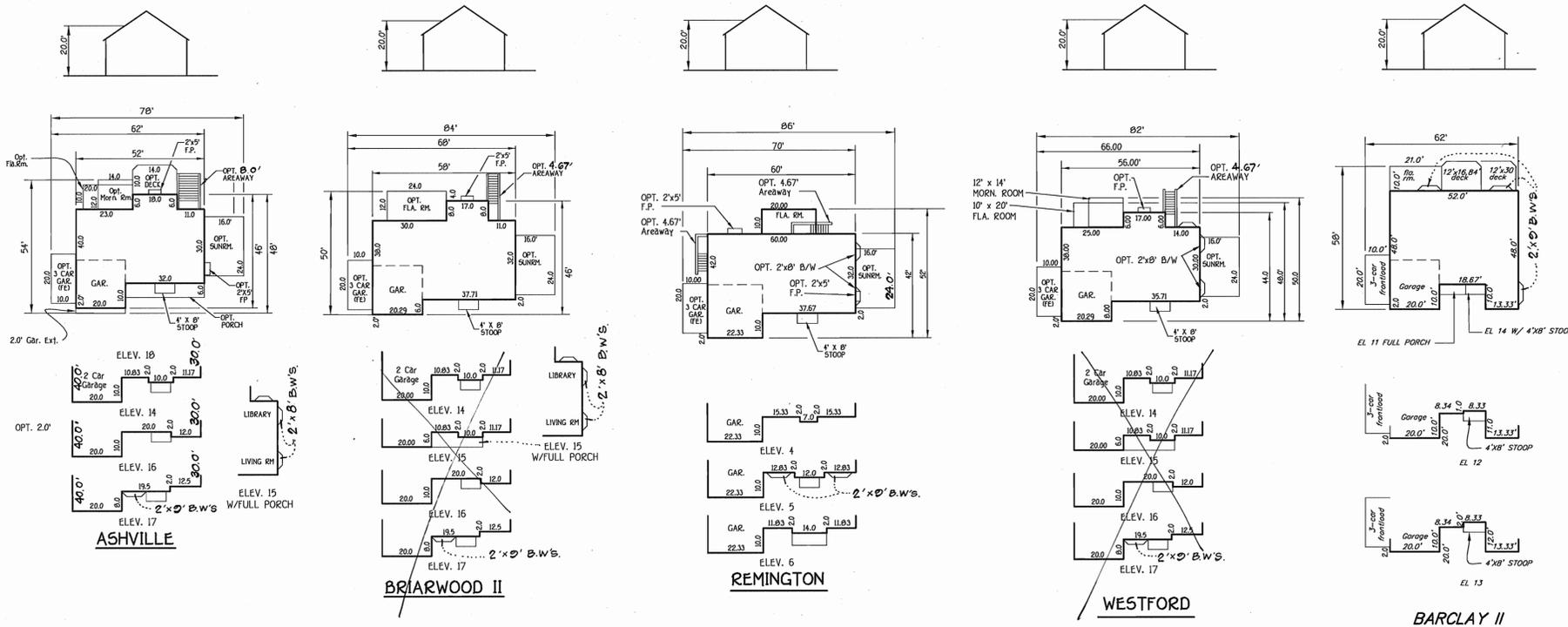
- SUBJECT PROPERTY IS ZONED: R-20 PER 10-18-93 COMPREHENSIVE ZONING PLAN.
- THE TOTAL AREA INCLUDED IN THIS SUBMISSION IS: 175,077 Sq Ft. or 4.0192 AC.
- THE TOTAL NUMBER OF LOTS INCLUDED IN THIS SUBMISSION IS: 12.
- THE TOTAL DISTURBED AREA IS: 3,526 AC.
- SHC ELEVATIONS SHOWN ARE LOCATED AT THE PROPERTY LINE.
- DEPARTMENT OF PLANNING AND ZONING REFERENCE FILE NUMBERS ARE: 5-97-16, 5P-98-15, F-00-54 AND WAS CONTRACT #14-3899-D.
- UTILITIES SHOWN AS EXISTING ARE TAKEN FROM APPROVED WATER AND SEWER PLANS; CONTRACT #14-3899-D APPROVED ROAD CONSTRUCTION PLANS: F-00-54
- ANY DAMAGE TO COUNTY OWNED RIGHTS-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.
- ALL ROADWAYS ARE PUBLIC AND EXISTING.
- THE EXISTING TOPOGRAPHY IS BASED ON AERIAL PHOTOGRAPHIC SURVEY PREPARED BY WINGS AERIAL MAPPING CO., INC. FLOWN JULY 1997 AND FIELD RUN DATA BY FISHER, COLLINS & CARTER, INC. IN OCTOBER 1997.
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM - HOWARD COUNTY CONTROL STATIONS: 2411 AND 2413.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/DIVISION OF CONSTRUCTION INSPECTION AT 410-313-1880 AT LEAST TWENTY-FOUR (24) HOURS 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.
- FOR DRIVEWAY ENTRANCE DETAILS, REFER TO HOWARD COUNTY DESIGN MANUAL VOLUME IV, DETAILS R6.03 AND R6.05
- IN ACCORDANCE WITH SECTION 12B(4)(D) OF THE HOWARD COUNTY SUPPLEMENTARY ZONING DISTRICT REGULATIONS, BAY WINDOWS OR CHIMNEYS NOT MORE THAN 16 FEET IN WIDTH MAY PROJECT NOT MORE THAN 4 FEET INTO ANY SETBACKS; PORCHES AND DECKS MAY PROJECT NOT MORE THAN 10 FEET INTO THE FRONT OR REAR SETBACKS.
- STORMWATER MANAGEMENT IS PROVIDED PER: F-00-54. CONTROL WILL BE PROVIDED BY EXTENDED DETENTION FACILITIES WHICH WILL BE PRIVATELY OWNED AND MAINTAINED BY HOME OWNER'S ASSOCIATION.
- NO FLOODPLAINS EXIST ON SITE.
- PERIMETER LANDSCAPING AND STREET SIDE LANDSCAPING WILL BE PROVIDED AS SHOWN ON THE APPROVED ROAD DRAWINGS, F-00-54. LANDSCAPE SURETY HAS BEEN MADE A PART OF THE DEVELOPER'S AGREEMENT.
- THE FOREST CONSERVATION OBLIGATIONS FOR THIS SITE WERE FULFILLED UNDER F-00-54 IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY FOREST CONSERVATION ACT BY RETAINING 7.7 ACRES OF ON-SITE FOREST. FOREST MANAGEMENT PRACTICES DESCRIBED IN THE DEED OF FOREST CONSERVATION EASEMENTS ARE PERMITTED.
- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL. FINANCIAL SURETY FOR THE TREES IN SCHEDULE 'A' IN THE AMOUNT OF \$13,800.00 SHALL BE PART OF THE BUILDERS GRADING PERMIT APPLICATION FOR LOT 26.
- NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE FOREST CONSERVATION EASEMENT, EXCEPT AS SHOWN ON THE APPROVED ROAD CONSTRUCTION DRAWING F-00-54.
- NO WETLANDS OR STREAMS EXIST ON THIS PLAN.
- USE-IN-COMMON DRIVEWAYS SHALL BE PROVIDED PRIOR TO RESIDENTIAL OCCUPANCY TO ENSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING (MINIMUM) REQUIREMENTS:
A) WIDTH - 12 FEET (14 FEET SERVING MORE THAN ONE RESIDENCE);
B) SURFACE - SIX (6) INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING. (1 - 1/2" MINIMUM);
C) GEOMETRY - MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE AND 45-FOOT TURNING RADIUS;
D) STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (425-LOADING);
E) DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100 YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER SURFACE;
F) STRUCTURE CLEARANCES - MINIMUM 12 FEET;
G) MAINTENANCE - SUFFICIENT TO ENSURE ALL WEATHER USE.
- NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN WETLANDS, STREAMS OR THEIR BUFFERS OR FOREST CONSERVATION EASEMENTS.
- This plan conforms to the Fifth Edition of the Subdivision and Land Development Regulations.



TREE PLANTING DETAIL



EVERGREEN PLANTING DETAIL



ALL HOUSE TYPES WITH ALL OPTIONS FIT THIS GENERIC BOX EXCEPT BARCLAY II No opt Fla. Rm.

ASHVILLE No 10' side gar. ext. w/ side sunroom
BRIARWOOD II No 10' side gar. ext. w/ side sunroom
REMININGTON No Opt Sunroom
WESTFORD No 10' Side Gar. Opt. w/ Side Sunroom
BARCLAY II

ASHVILLE No side sunroom
BRIARWOOD II No side sunroom
REMININGTON No 10' side gar. ext. or side sunroom
WESTFORD No 10' side gar. ext. or side sunroom
BARCLAY II

ASHVILLE No side sunroom
BRIARWOOD II No 10' side gar. ext. or side sunroom
REMININGTON No 10' side gar. ext. or side sunroom
WESTFORD No side sunroom
BARCLAY II

ASHVILLE No side sunroom
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REMININGTON No 10' side gar. ext. or side sunroom
WESTFORD No 10' side gar. ext. or side sunroom
BARCLAY II

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21042
410-461-3000

STATE OF MARYLAND
REGISTERED PROFESSIONAL ENGINEER

ENGINEER'S CERTIFICATE
I 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.

Earl DeBall 4/16/02
Signature of Engineer Date

DEVELOPER'S CERTIFICATE
I/WE certify that all development and construction will be done according to this plan, for sediment and erosion control 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.

W. McCam 4/26/02
Signature of Developer Date

Reviewed for HOWARD SCD and meets Technical Requirements.

Jim Myers 5/23/02
Conservation Services Date

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

John K. Robertson 5/23/02
Howard SCD Date

OWNER/DEVELOPER
STONECREST MANOR, LLC
C/O LAND DESIGN & DEVELOPMENT, LLC
8000 MAIN STREET
ELLICOTT CITY, MARYLAND 21043

BUILDER
PULTE HOMES
1501 S. EDGEWOOD STREET, SUITE K
BALTIMORE, MARYLAND 21227

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Cindy Harris 5/29/02
Chief, Division of Land Development Date

Walter D. ... 5/29/02
Chief, Development Engineering Division Date

... 5/29/02
Director, Department of Planning and Zoning Date

PROJECT	STONE MANOR	SECTION	1	LOTS NO.	17 THRU 24 & 28 THRU 31
PLAZOT	15006	BLOCK NO.	1	ZONE	R-20
TAX/ZONE	31	ELEC. DIST.	SECOND	CENSUS TR.	6028.00
WATER CODE	G-01	SEWER CODE	1253100		

SITE DEVELOPMENT PLAN

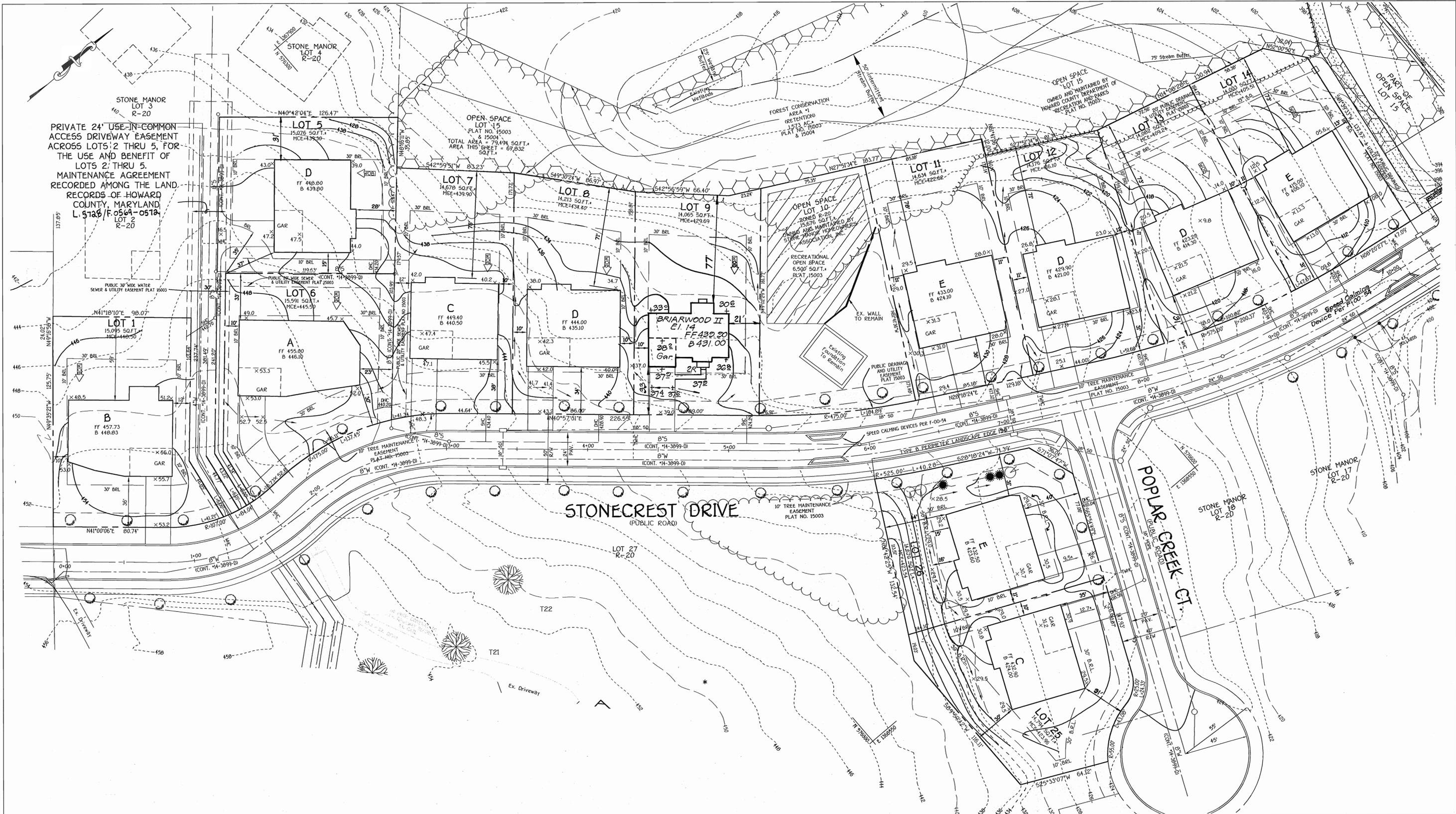
STONE MANOR SECTION ONE

LOTS 1, 5 THRU 9, 11 THRU 14, 25 AND 26

TAX MAP No: 31 P/O PARCELS: 2 & 805 GRID 1
SECOND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
SCALE: 1" = 30' DATE: JANUARY, 2001
SHEET 1 OF 4

SDP-02-90

K:\Drawings\681658\Stone Manor (See 1)\P\681658 Sub-plans\15-9 11-14-25 26.dwg, 04/25/02 04:04:14 PM



FISHER, COLLINS & CARTER, INC.
 1100 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND 21114
 (410) 461-2955

NO.	REVISIONS	DATE
1	Rev. hsa. f. gnd. lot 2	10-4-02



ENGINEER'S CERTIFICATE
 I 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.

William McCann 4/26/02
 Signature of Engineer Date

DEVELOPER'S CERTIFICATE
 I/we certify that all development and construction will be done according to this plan for sediment and erosion control 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.

William McCann 4/26/02
 Signature of Developer Date

Reviewed for HOWARD SCD and meets Technical Requirements.

Jim Maris 5/23/02
 U.S.A. Natural Resources Conservation Service Date

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

Jim K. Rowson 5/23/02
 Date

OWNER/DEVELOPER
 STONECREST MANOR, L.L.C.
 C/O LAND DESIGN & DEVELOPMENT, LLC
 8000 MAIN STREET
 ELLICOTT CITY, MARYLAND 21043

BUILDER
 PULTE HOMES
 1501 S. EDGEWOOD STREET, SUITE K
 BALTIMORE, MARYLAND 21227

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Andy Smith 5/29/02
 Chief, Division of Land Development Date

William McCann 5/21/02
 Chief, Department of Planning and Zoning Date

William McCann 5/23/02
 Director, Department of Planning and Zoning Date

STONE MANOR	SECTION	LOTS NO.
15002 - 15006	I	1, 5-9, 11-14, 25 & 26
PLAT	BLOCK NO.	ZONE
15002 - 15006	I	R-20
TAX/ZONE	ELEC. DIST.	CENSUS TR.
31	SECOND	6028.08
WATER CODE	SEWER CODE	
G-01	1253100	

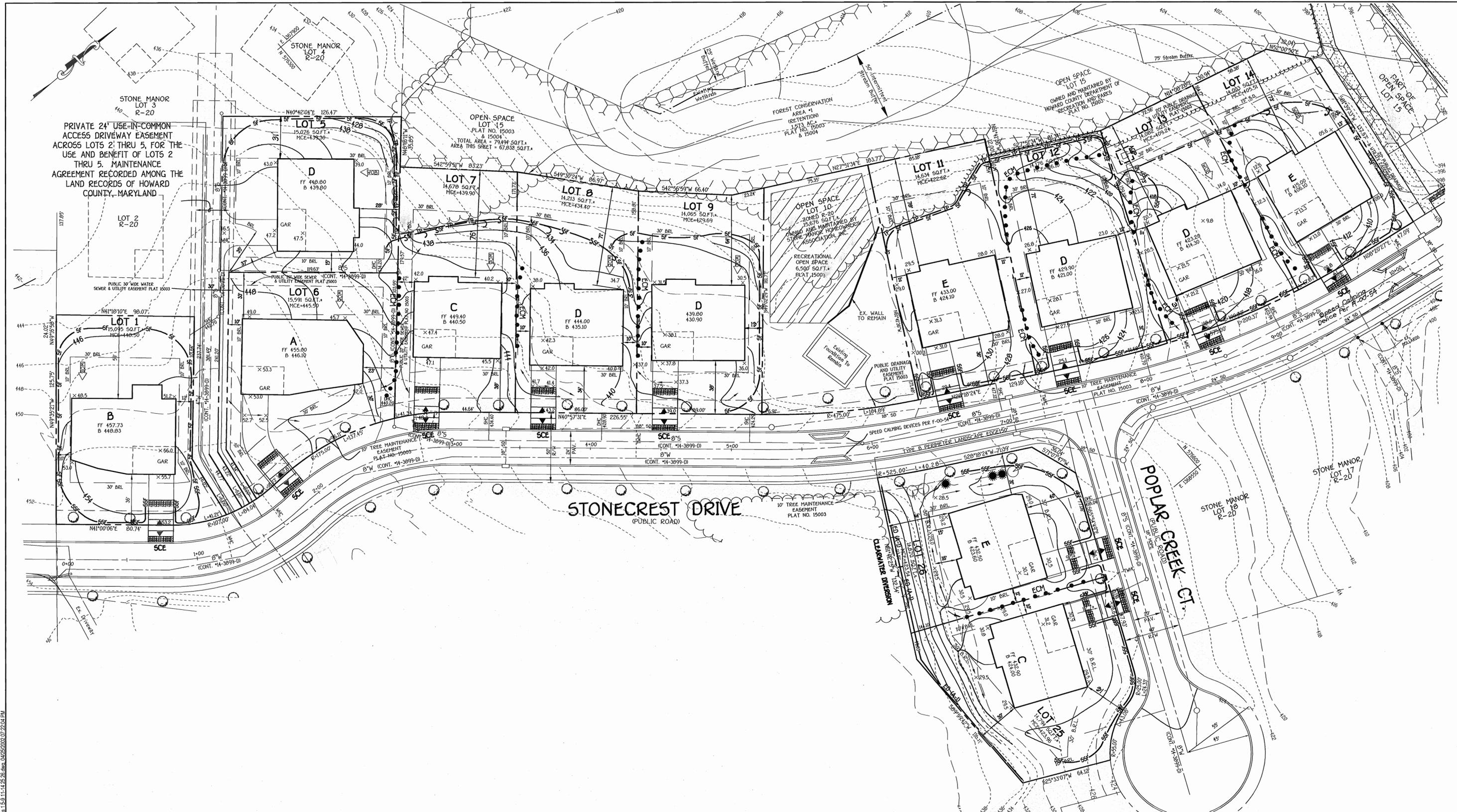
SITE DEVELOPMENT PLAN

STONE MANOR

SECTION ONE
 LOTS 1, 5 THRU 9, 11 THRU 14, 25 AND 26

TAX MAP No: 31 P/O PARCELS: 2 & 805 GRID 1
 SECOND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
 SCALE: 1"= 30' DATE: JANUARY, 2002
 SHEET 2 OF 4

K:\Drawings\661689 Stone Manor (Sec 1)\Pulte\6689 Sub-plans\15-9 11-14-25-26.dwg, 04/25/02 04:05:23 PM



PRIVATE 24' USE-IN-COMMON ACCESS DRIVEWAY EASEMENT ACROSS LOTS 2 THRU 5, FOR THE USE AND BENEFIT OF LOTS 2 THRU 5. MAINTENANCE AGREEMENT RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND

STONECREST DRIVE
(PUBLIC ROAD)

POPULAR CREEK CT.

A:\Drawings\6101688\Stone Manor (Site - 1)\Plan\61688_SitePlan_15-9-11.dwg 28-Jan-04 09:25:00 07:22:04 PM

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 1672 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21042
410.461.2999

ENGINEER'S CERTIFICATE

"I 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."

Earl L. Cole 4/26/02
Signature of Engineer Date

DEVELOPER'S CERTIFICATE

"I certify that all development and construction will be done according to this plan, for sediment and erosion control 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."

Jim McCann 4/26/02
Signature of Developer Date

Reviewed for HOWARD SCD and meets Technical Requirements.

Jim Mays 5/23/02
Date
V.E.D.A. - Natural Resources
Conservation Service Staff

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

John K. Roberts 5/23/02
Date
HOWARD SCD

OWNER/DEVELOPER
STONECREST MANOR, L.L.C.
C/O LAND DESIGN & DEVELOPMENT, LLC
8000 MAIN STREET
ELLICOTT CITY, MARYLAND 21043

BUILDER
PULTE HOMES
1501 S. EDGEWOOD STREET, SUITE K
BALTIMORE, MARYLAND 21227

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Cindy Thomas 5/29/02
Date
Chief, Division of Land Development

John Dammann 5/29/02
Date
Chief, Development Engineering Division

John T. Tait 5/29/02
Date
Director - Department of Planning and Zoning

PROJECT	SECTION	LOTS NO.
STONE MANOR	1	1, 5-9, 11-14, 25 & 26

PLAT	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
15002 - 15006	1	R-20	31	SECOND	602B.00

WATER CODE	SEWER CODE
G-01	1253100

SEDIMENT & EROSION CONTROL PLAN

STONE MANOR

SECTION ONE

LOTS 1, 5 THRU 9, 11 THRU 14, 25 AND 26

TAX MAP No: 31 P/O PARCELS: 2 & 805 GRID 1
SECOND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
SCALE: 1"= 30' DATE: JANUARY, 2002
SHEET 3 OF 4

20.0 STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION DEFINITION

Using vegetation as cover for barren soil to protect it from forces that cause erosion.

Vegetative stabilization specifications are used to promote the establishment of vegetation on exposed soil. When soil is stabilized with vegetation, the soil is less likely to erode and more likely to allow infiltration of rainfall, thereby reducing sediment loads and run-off to downstream areas, and improving wildlife habitat and visual resources.

This practice shall be used on eroded areas as specified on the plans and may be used on highly erodible or critically eroding areas. This specification is divided into Temporary Seeding, to quickly establish vegetative cover for short duration (up to one year), and Permanent Seeding, for long term vegetative cover. Examples of applicable areas for Temporary Seeding are Temporary Soil Stockpiles, cleared areas being left side between construction phases, earth dikes, etc. and for Permanent Seeding are barren, disturbed cut and fill slopes and other areas at final grade, former stockpile and staging areas, etc.

EFFECTS ON WATER QUALITY AND QUANTITY
Planting vegetation in disturbed areas will have an effect on the water budget, especially on volumes and rates of runoff, infiltration, evaporation, transpiration, percolation, and groundwater recharge. Vegetation over time, will increase organic matter content and improve the water holding capacity of the soil and subsequent plant growth. Vegetation will help reduce the movement of sediment, nutrients, and other chemicals carried by runoff to receiving waters. Plants will also help protect groundwater supplies by assimilating those substances present within the root zone. Sediment control devices must remain in place during grading, seeded preparation, seeding, mulching and vegetative establishment to prevent large quantities of sediment and associated chemicals and nutrients from washing into surface waters.

SECTION 1 - VEGETATIVE STABILIZATION METHODS AND MATERIALS

1. Initial erosion and sediment control structures (either temporary or permanent) such as diversions, grade stabilization structures, berms, waterways, or sediment control basins.
2. Perform all grading operations at right angles to the slope. Final grading and shaping is not usually necessary for temporary seeding.
3. Schedule required soil tests to determine soil amendment composition and application rates for sites having disturbed areas over 5 acres.
4. Soil Amendments (Fertilizer and Lime Specifications)
 - a. Soil tests must be performed to determine the exact ratios and application rates for both lime and fertilizer on sites having disturbed areas over 5 acres. Soil analysis may be performed by the University of Maryland or a recognized commercial laboratory. Soil samples taken for engineering purposes may also be used for chemical analysis.
 - b. Fertilizers shall be uniform in composition, free flowing and suitable for accurate application by approved equipment. Nitrate may be substituted for fertilizer with prior approval from the appropriate approval authority. Fertilizers shall be delivered to the site fully labeled according to the applicable state fertilizer laws and shall bear the name, trade name or trademark and warranty of the producer.
 - c. Lime material shall be ground limestone (hydrated or burnt lime) may be substituted which contains at least 50% total oxidized calcium oxide plus magnesium oxide. Limestone shall be ground to size materials that at least 50% will pass through a #100 mesh sieve and 90-100% will pass through a #20 mesh sieve.
 - d. Incorporate lime and fertilizer into the top 3-5" of soil by diking or other suitable means.

5. Temporary Seeding
 - a. Seeding preparation shall consist of loosening soil to a depth of 3" to 5" by means of suitable agricultural or construction equipment, such as disc harrows or chisel plows or ripper shanks on construction equipment. After the soil is loosened it should not be rolled or dragged smooth, but left in the roughened condition. Sloped areas greater than 3:1 should be tracked leaving the surface in an irregular condition with ridges running parallel to the contour of the slope.
 - b. Apply fertilizer and lime as prescribed on the plans.
 - c. Incorporate lime and fertilizer into the top 3-5" of soil by diking or other suitable means.
6. Permanent Seeding
 - a. Soil pH conditions required for permanent vegetative establishment
 - i. Soil pH shall be between 6.0 and 7.0.
 - ii. Soluble salts shall be less than 500 parts per million (ppm).
 - iii. The soil shall contain less than 40% clay, but enough fine grained material (silt plus clay) to provide the capacity to provide moderate amount of moisture. An exception is for loess soils or special loess soils to be planted, then a sandy soil (50% silt plus clay) would be acceptable.
 - iv. Soil shall contain 1.5% minimum organic matter by weight.
 - v. Soil must contain sufficient pore space to permit adequate root penetration.
 - vi. If these conditions cannot be met by soils on site, adding topsoil is required.
 - b. Areas previously graded in conformance with the drawings shall be maintained in a true and even grade, then scarified or otherwise loosened to a depth of 3" to 5" to permit bonding of the topsoil to the surface area and to create horizontal erosion check slots to prevent topsoil to the surface area and to create horizontal erosion check slots to prevent topsoil from sliding down a slope.
 - c. Apply soil amendments as per soil test or as included on the plans.
 - d. The soil amendments into the top 3-5" of topsoil by diking or other suitable means. Lawn areas should be raked to smooth the surface, remove large objects like stones and branches, and ready the area for seed application. Where site conditions will permit normal seeded preparation, loosen surface soil by dragging with a heavy chain or other equipment to roughen the surface. Slope slopes steeper than 3:1 should be tracked by a doker leaving the soil in an irregular condition with ridges running parallel to the contour of the slope. The top 1-3" of soil should be loose and friable. Seeded loosening may not be necessary on newly disturbed areas.

7. Seed Specifications
 - a. All seed must meet the requirements of the Maryland State Seed Law. All seed shall be subject to retesting by a recognized seed laboratory. All seed shall have been tested within the 6 months immediately preceding the date of sowing such material on the job.
 - b. Note: Seed tags shall be made available to the inspector to verify type and rate of seed used.
 - c. Incubant - The incubant for treating become seed in the seed mixtures shall be a pure culture of nitrogen-fixing bacteria prepared specifically for the species. Incubants shall not be used later than the date indicated on the container. Add fresh incubant as directed on package. Use four times the recommended rate when hydroseeding. Note: It is very important to keep incubant as cool as possible until used. Temperatures above 75-80° F. can weaken bacteria and make the incubant less effective.
 - d. Methods of Seeding
 - i. Hydroseeding - Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer, broadcast drop seeds, or a cultipacker seeder.
 - ii. If fertilizer is being applied at the time of seeding, the application rates amounts will not exceed the following: Nitrogen maximum of 100 lbs. per acre total of soluble nitrogen; P205 (phosphorous) 200 lbs./ac. K2O (potassium) 200 lbs./ac.
 - iii. Lime - use only ground agricultural limestone, 2 to 3 tons per acre may be applied by hydroseeding. Normally, not more than 2 tons are applied by hydroseeding at any one time. Do not use burnt or hydrated lime when hydroseeding.
 - iv. Seed and fertilizer shall be mixed on site and seeding shall be done immediately and without delay.
 - e. Dry Seeding - This includes use of conventional drop or broadcast spreaders.
 - i. Seed and fertilizer shall be incorporated into the subsoil as described on the Temporary or Permanent Seeding Summaries or Tables 265 or 266. The seeded area shall be tracked to provide a rough surface. The seeded area shall be tracked to provide a rough surface.
 - ii. Where practical, seed should be applied in two directions perpendicular to each other.
 - f. Drill or Cultipacker Seeding - Mechanized seeders that apply and cover seed with soil.
 - i. Cultipacker seeders are required to bury the seed in such a fashion as to provide at least 1/4 inch of soil covering. Seeded must be firm after planting.
 - ii. Where practical, seed should be applied in two directions perpendicular to each other.
 - iii. Apply the seeding rate in each direction.

8. Mulch Specifications (in order of preference)
 - a. Straw shall consist of thoroughly threshed wheat, rye or oat straw, reasonable bright in color, and shall not be musty, moldy, caked, decayed, or excessively dusty and shall be free of noxious weed seeds as specified in the Maryland State Seed Law.
 - b. Wood Cellulose Fiber Mulch (WCFF)
 - i. WCFF shall consist of specially prepared wood cellulose processed into a uniform fibrous physical state.
 - ii. WCFF shall be dried green or contain a green dye in the package that will provide an appropriate color to facilitate visual inspection of the uniform spread slurry.
 - iii. WCFF, including dye, shall contain no granular material or sawdust.
 - iv. WCFF materials shall be manufactured and processed in such a manner that the wood cellulose fiber mulch will remain in uniform suspension in water under agitation and will blend with seed, fertilizer and other additives to form a homogeneous slurry.
 - v. The mulch material shall form a batter-like ground cover, on application, having moisture absorption and percolation properties and shall cover and hold grass seed in contact with the soil without inhibiting its growth.
 - vi. WCFF material shall contain no elements or compounds at concentrations that will be phytotoxic.
 - vii. WCFF must conform to the following physical requirements: fiber length to be 1/2" to 3/4"; moisture content to be 40 to 60%; pH range of 6.0 to 8.5, ash content of 1.6% maximum and water holding capacity of 90% minimum.
 - viii. Only sterile straw mulch should be used in areas where one species of grass is desired.

SEQUENCE OF CONSTRUCTION

- | | |
|---|---------|
| 1. OBTAIN GRADING PERMIT | 7 DAYS |
| 2. INSTALL SEDIMENT AND EROSION CONTROL DEVICES AS SHOWN ON PLAN | 7 DAYS |
| 3. CLEAR AND GRUB TO LIMITS OF DISTURBANCE | 4 DAYS |
| 4. INSTALL TEMPORARY SEEDING | 2 DAYS |
| 5. CONSTRUCT BUILDINGS | 60 DAYS |
| 6. FINE GRADE SITE AND INSTALL PERMANENT SEEDING AND LANDSCAPE | 14 DAYS |
| 7. REMOVE SEDIMENT CONTROL DEVICES AS UPLAND AREAS ARE STABILIZED AND PERMISSION IS GRANTED BY E/S CONTROL INSPECTOR. | 7 DAYS |

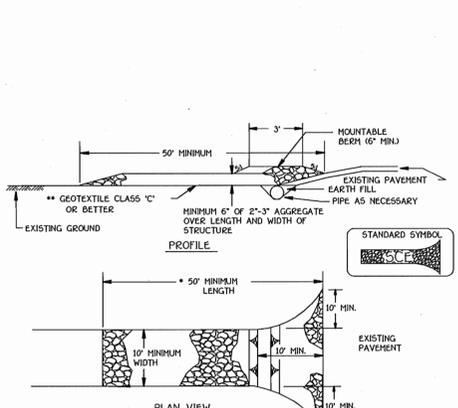
SEDIMENT CONTROL NOTES

1. A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEEDING DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (311-1852).
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 SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THEREOF.
3. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 31 DAYS CALENDAR DAYS FOR ALL PERMITS. SEEDING SHALL BE COMPLETED WITHIN 31 DAYS AS TO ALL OTHERS DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
4. ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FORCED AND MAINTAINED 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. PERMANENT SEEDING (S.E.C. 50, S.O.D. (S.E.C. 54), TEMPORARY SEEDING (S.E.C. 50), AND MULCHING (S.E.C. 50), TEMPORARY STABILIZATION WITH MULCH (ALONG WITH PERMANENT SEEDING) SHALL BE MAINTAINED 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: 4,092 ACRES
 - AREA DISTURBED: 3,526 ACRES
 - AREA TO BE VEGETATIVELY STABILIZED: 2,572 ACRES
 - TOTAL CUT: 12,289 CU.YDS.
 - TOTAL FILL: N/A
 - OFFSITE WASTEWATER/SEWAGE AREA LOCATION: OFFSITE
8. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
9. ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
10. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROL DEVICES. APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF GRADING, OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THE INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
11. TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR MORE WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

- i. Mating Seeded Areas - Mulch shall be applied to all seeded areas immediately after seeding. If grading is completed outside of the seeding season, mulch shall be applied as prescribed in this section and maintained until the seeding season returns and seeding can be performed in accordance with these specifications.
- ii. When straw mulch is used, it shall be spread over all seeded areas at the rate of 2 tons/acre. Mulch shall be applied to a uniform loose depth of between 1" and 2". Mulch applied shall achieve a uniform distribution and depth so that the soil surface is not exposed. If a mulch anchoring tool is to be used, the rate should be increased to 2.5 tons/acre.
- iii. Wood cellulose fiber (used as a mulch) shall be applied at a net dry weight of 1,500 lbs. per acre. The wood cellulose fiber shall be mixed with water, and the mixture shall contain a minimum of 50 lbs. of wood cellulose fiber per 100 gallons of water.
- iv. Securing Straw Mulch (Anchoring) - Mulch anchoring shall be performed immediately following mulch application to minimize loss by wind or water. This may be done by one of the following methods listed by preference, depending upon size of area and erosion hazard:
 - a. Mulch anchoring tool is a tractor drawn implement designed to punch and anchor mulch into the soil surface a minimum of two (2) inches. This practice is most effective on large areas, but is limited to flatter slopes where equipment can operate safely. If used on sloping lands, this practice should be used on the contour if possible.
 - b. Wood cellulose fiber may be used for anchoring the mulch. The fiber binder shall be applied at a net dry weight of 750 pounds/acre. The wood cellulose fiber shall be mixed with water and the mixture shall contain a minimum of 50 pounds of wood cellulose fiber per 100 gallons of water.
 - c. Application of liquid binders should be heavier at the edges where wind catches much, such as in valleys and crest of banks. The remainder of the area should be applied uniform after binder application. Synthetic binders, such as Acrylic DLR (Duro-Tack), DCA-70 (Folrotex), Terra Tex II, Terra Tac AK or other approved equal may be used at rates recommended by the manufacturer to anchor mulch.
 - d. Lightweight plastic netting may be applied over the mulch according to manufacturer's recommendations. Netting is usually available in rolls 4' to 10' feet wide and 300 to 3,000 feet long.
- v. Incremental Stabilization - Cut Slopes
 - a. All cuts shall be dressed, prepared, seeded and mulched as the work progresses. Slopes shall be excavated and stabilized in equal increments not to exceed 10'.
 - b. Construction sequence (Refer to Figure 3 below):
 - i. Excavate and stabilize all temporary swales, side ditches, or berms that will be used to convey runoff from the excavation.
 - ii. Perform Phase 1 excavation, dress and stabilize.
 - iii. Perform Phase 2 excavation, dress and stabilize. Overseed previously seeded areas as necessary.
 - iv. Perform final phase excavation, dress and stabilize. Overseed previously seeded areas as necessary.

- i. Note: Once excavation has begun the operation should be continuous from grubbing through the completion of grading and placement of topsoil if required and permanent seed and mulch. Any interruptions in the operation of completing the operation out of the seeding season will necessitate the application of temporary stabilization.
- j. Incremental Stabilization of Embankments - Fill Slopes
 - a. Embankments shall be constructed in lifts as prescribed on the plans.
 - b. Slopes shall be stabilized immediately when the vertical height of the multiple lifts reaches the lift maximum to be stabilized on the slope side of the fill as shown in Figure 3, unless other methods shown on the plans address this area.
 - c. Place Phase 2 embankment, dress and stabilize.
 - d. Place final phase of fill as necessary. Overseed previously seeded areas as necessary.
- k. At the end of each day, temporary berms and pipe slope drains should be constructed along the top edge of the embankment to prevent erosion of the fill and cover it down the slope in a non-erosive manner to a sediment trapping device.
- l. Excavate and stabilize all temporary swales, side ditches, or berms that will be used to divert runoff around the fill (Refer to Figure 3 below):
 - a. Excavate and stabilize all temporary swales, side ditches, or berms that will be used to divert runoff around the fill (Refer to Figure 3 below):
 - i. Excavate and stabilize all temporary swales, side ditches, or berms that will be used to divert runoff around the fill (Refer to Figure 3 below):
 - ii. Perform Phase 1 excavation, dress and stabilize.
 - iii. Perform Phase 2 excavation, dress and stabilize.
 - iv. Perform final phase excavation, dress and stabilize. Overseed previously seeded areas as necessary.

Note: Once the placement of fill has begun the operation should be continuous from grubbing through the completion of grading and placement of topsoil if required and permanent seed and mulch. Any interruptions in the operation or completing the operation out of the seeding season will necessitate the application of temporary stabilization.



1. Length - minimum of 50' (+30' for single residence lot).
 2. Width - 10' minimum, should be fitted at the existing road to provide a turning radius.
 3. Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. The plan approval authority may not require single family residences to use geotextile.
 4. Stone - crushed aggregate (1" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance.
 5. Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe treated through the stabilized construction entrance shall be protected with a mountable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum 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.

STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE

EROSION CONTROL MATTING

NOT TO SCALE

ENGINEER'S CERTIFICATE

"I 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."

Emilio...
Signature of Engineer
Date: 3/11/02

DEVELOPER'S CERTIFICATE

"I/we certify that all development and construction will be done according to this plan for erosion and sediment control and that any 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."

Jim Mc...
Signature of Developer
Date: 3/11/02

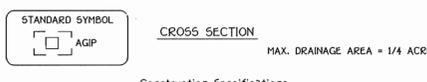
OWNER/DEVELOPER

Reviewed for HOWARD SCD and meets Technical Requirements.
Jim Mc...
Signature of Owner/Developer
Date: 3/23/02

Signature of Builder
Date: 3/23/02

AT GRADE INLET PROTECTION

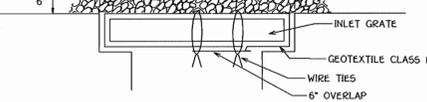
NOT TO SCALE



1. Lift grate and wrap with Geotextile Class E to completely cover all openings, then set grate back in place.
2. Place 3/4" to 1 1/2" stone, 4"-6" thick on the grate to secure the fabric and provide additional filtration.

EARTH DIKE

NOT TO SCALE



1. All temporary earth dikes shall have uninterrupted positive grade to an outlet. Spot elevations may be necessary for grades less than 1:1.
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 at a non-erosive velocity.
4. All trees, brush, stumps, obstructions, and other objectionable material shall be removed and disposed of so as not to interfere with the proper functioning of the dike.
5. The dike shall be excavated or shaped 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.
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.

TEMPORARY SEEDING NOTES

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

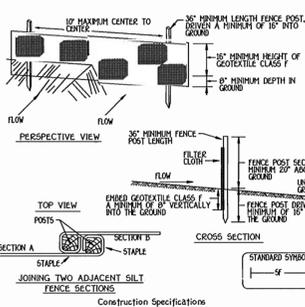
SEEDING PREPARATION:
LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS:
APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (4 LBS./1,000 SQ.FT.)

SEEDING:
FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 15 THROUGH NOVEMBER 15, SEED WITH 17 BUSHEL PER ACRE OF ANNUAL RYE (32 LBS./ACRE OF WEEPING LOVEGRASS (07 LBS./1,000 SQ.FT. FOR THE PERIOD NOVEMBER 16 THRU 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 50D.

MULCHING:
APPLY 1 TO 2 TONS PER ACRE (70 TO 90 LBS./1,000 SQ.FT.) OF UNMOTTLED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHORING TOOL OR 2 1/2 GALLONS PER ACRE (5 GALLON/1,000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT ACRES ON SLOPES 6 FEET OR HIGHER, USE 3 1/2 GALLONS PER ACRE (8 GALLON/1,000 SQ.FT.) FOR ANCHORING.

REFER TO THE 1998 MARYLAND STANDARDS AND SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.



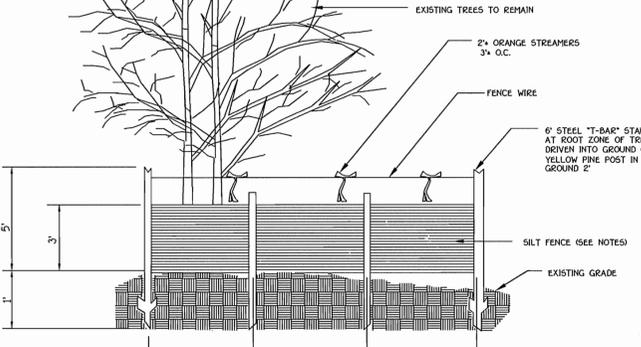
1. Fence posts shall be a minimum of 36" long driven 18" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square hardwood. Steel posts will be 1/2" x 1/2" section weighing not less than 100 lbs. per linear foot.
2. Geotextile fabric shall be fastened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements for Geotextile Class F:

Tensile Strength	50 lbs/in (min)	Test: HSMT 509
Tensile Modulus	20 lbs/in (min)	Test: HSMT 509
Flow Rate	0.3 gal/ft ² /minute (max)	Test: HSMT 322
Filtering Efficiency	75% (min)	Test: HSMT 322
3. Where ends of geotextile fabric come together, they shall be overlapped.
4. Silt fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.

SILT FENCE

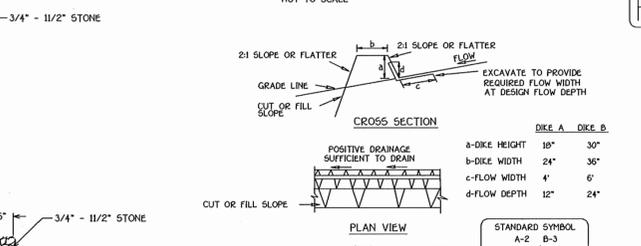
NOT TO SCALE

1. Silt fence to be heeled into the soil.
2. Wire, snow fence, etc. for line protection only.
3. Boundaries of Retention Area will be established as part of the forest conservation plan review process.
4. Boundaries of Retention Area should be staked and flagged prior to installing device.
5. Avoid foot damage when placing anchor posts.
6. Device should be properly maintained throughout construction.
7. Protection signs are also required, see Figure C-4.
8. Locate fence outside the Critical Root Zone.



SILT FENCE AND TREE PROTECTION

NOT TO SCALE



1. Seed and cover with straw mulch.
2. Seed and cover with Erosion Control Matting or Liner with seed.
3. 4" - 7" stone or recycled concrete equivalent pressed into the soil 7" minimum.

1. All temporary earth dikes shall have uninterrupted positive grade to an outlet. Spot elevations may be necessary for grades less than 1:1.
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 at a non-erosive velocity.
4. All trees, brush, stumps, obstructions, and other objectionable material shall be removed and disposed of so as not to interfere with the proper functioning of the dike.
5. The dike shall be excavated or shaped 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.
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.

Slope	Slope Steepness	Slope Length (maximum)	Silt Fence Length (maximum)
0 - 10%	0 - 10:1	Unlimited	Unlimited
10 - 20%	10 - 5:1	200 feet	1,500 feet
20 - 33%	5 - 3:1	100 feet	1,000 feet
33 - 50%	3 - 2:1	100 feet	500 feet
50% +	2:1 +	50 feet	250 feet

SUPER SILT FENCE

NOT TO SCALE

PERMANENT SEEDING NOTES

ALL DISTURBED AREAS SHALL BE STABILIZED AS FOLLOWS:

SEEDING PREPARATION:
LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

SOIL AMENDMENTS:
APPLY TWO TONS PER ACRE DOLOMITE LIMESTONE (92 LBS./1,000 SQ.FT.) AND 600 LBS. PER ACRE 0-20-20 FERTILIZER (4 LBS./1,000 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 UREA/ORM FERTILIZER (9 LBS./1,000 SQ.FT.) AND 500 LBS. PER ACRE (11.5 LBS./1,000 SQ.FT.) OF 10-20-20 FERTILIZER.

SEEDING:
FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 100 LBS. PER ACRE (2.3 LBS./1,000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THROUGH JULY 31, SEED WITH 60 LBS./ACRE (1.4 LBS./1,000 SQ.FT.) KENTUCKY 31 TALL FESCUE AND 100 LBS. PER ACRE (0.05 LBS./1,000 SQ.FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THROUGH FEBRUARY 28, PROJECT SITE BY OPTION (D) - TWO TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (E) - USE 500D. OPTION (E) - SEED WITH 100 LBS./ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH TWO TONS/ACRE WELL ANCHORED STRAW. ALL SLOPES SHOULD BE HYDROSEEDED.

MULCHING:
APPLY 1 TO 2 TONS PER ACRE (80 TO 90 LBS./1,000 SQ.FT.) OF UNMOTTLED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING 200 GALLONS PER ACRE (5 GALLON/1,000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT ACRES ON SLOPES 6 FEET OR HIGHER. USE 3 1/2 GALLONS PER ACRE (8 GALLON/1,000 SQ.FT.) FOR ANCHORING.

MAINTENANCE:
INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

* FOR PUBLIC PLOTS SUBSTITUTE CHEMUNG CROWNWATH AT 15 LBS./ACRE AND KENTUCKY 31 TALL FESCUE AT 10 LBS./ACRE AS THE SEEDING REQUIREMENT. OPTIMUM SEEDING DATE FOR THIS MIXTURE IS MARCH 1 TO APRIL 30.

SEDIMENT/EROSION CONTROL NOTES & DETAILS

STONE MANOR
SECTION ONE
LOTS 1, 5 THRU 9, 11 THRU 14, 25 AND 26

TAX MAP No: 31 P/O PARCELS: 2 & 805 GRID 1
SECOND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: MARCH, 2002
SHEET 4 OF 4

PROJECT	SECTION	LOTS NO.
STONE MANOR	1	1, 5-9, 11-4, 25 & 26

PLAT	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
15002 - 15006	1	R-20	31	SECOND	6028.00

WATER CODE	SEWER CODE
G-01	1253100

FISHER, COLLINS & CARTER, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21114
(410) 461 - 2955



NO.	REVISIONS	DATE

W:\Drawings\66\66\Stone Manor (Sec. 1) Plan\11-11-02\26 SHEET 4.dwg, 09/11/2002, 05:02:27 PM