

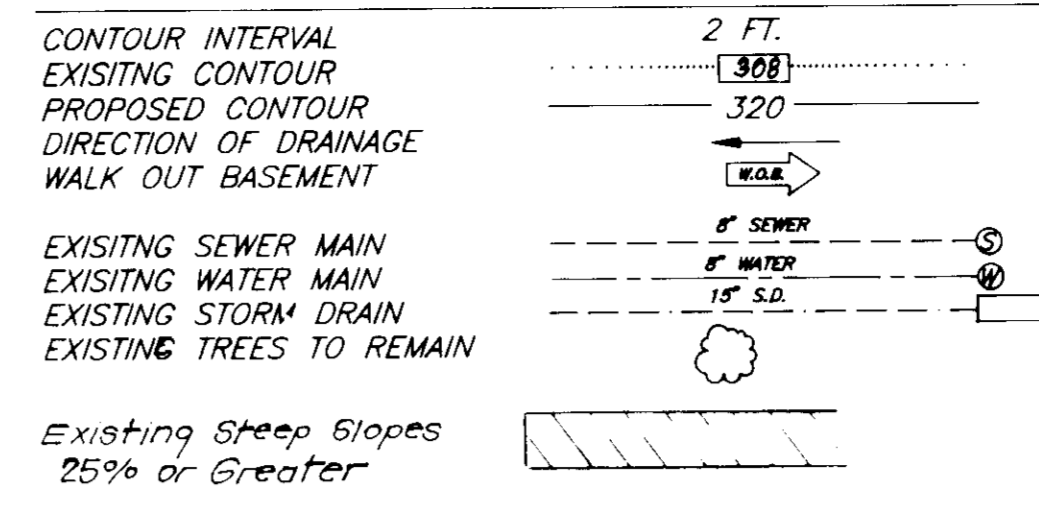
PLANT SCHEDULE			
KEY	PLANT NAME	SIZE	QTY/REMARKS
PS	PINK SPROUTS - WHITE PINE	6-8 HT.	6 B & B

NOTES:  
 1) ALL PLANTING SHALL BE DONE IN ACCORDANCE WITH BOUTINASH LANDSCAPE SPECIFICATIONS OF L.C.A.M.W.  
 2) CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO DIGGING.

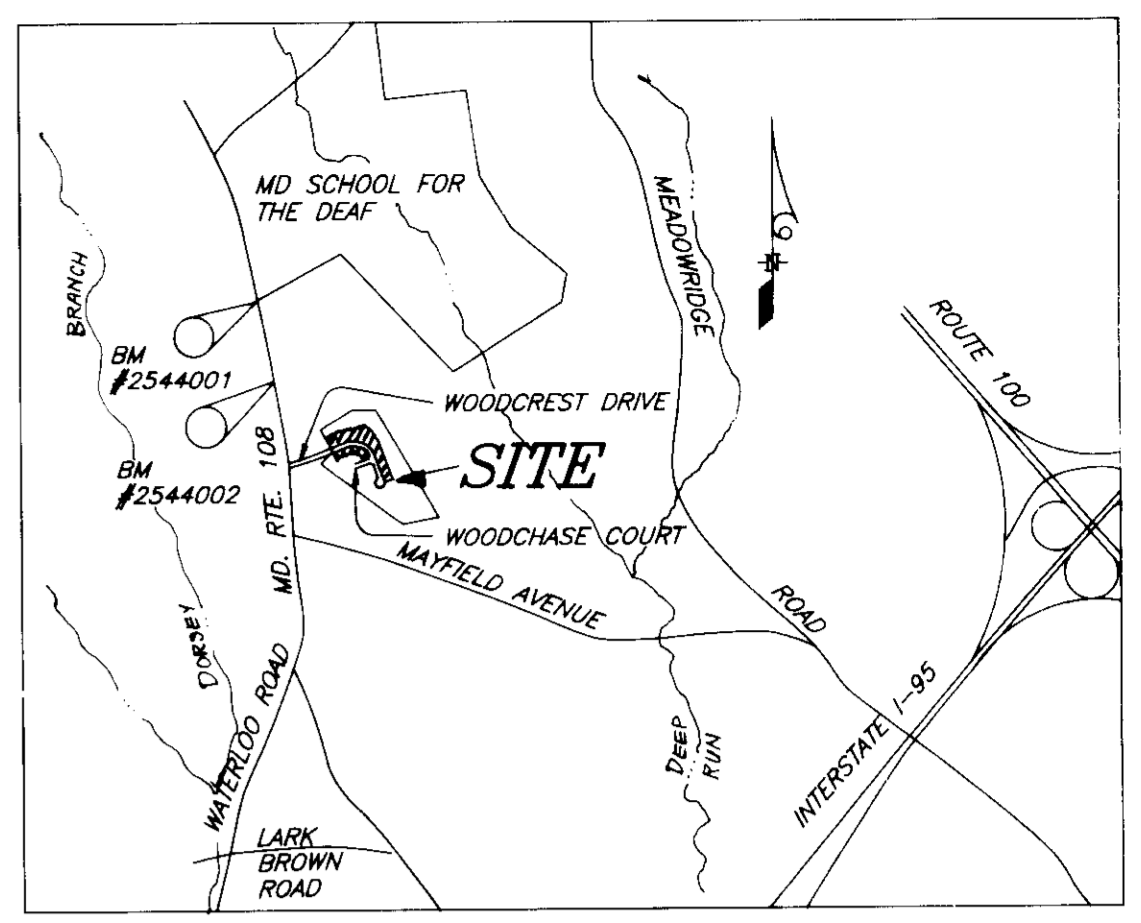
LOT NO.	GROSS AREA	Flood Plain	Flag Stem	Ex. Steep Slope	Net Area	Created Steep Slope	10% Credit	Min. Lot Area
11	19,992.32		22.00	320.0	13672.32			11,382.92
12	9,795.05		2010.40	1197.5	8597.65			6,597.15
13	8,418.68			756.0	7662.68			7,662.68
14	7,826.52			693.0	7133.52			7,133.52
15	6,510.69			386.0	6124.69			6,124.69

**MINIMUM LOT SIZE CHART**

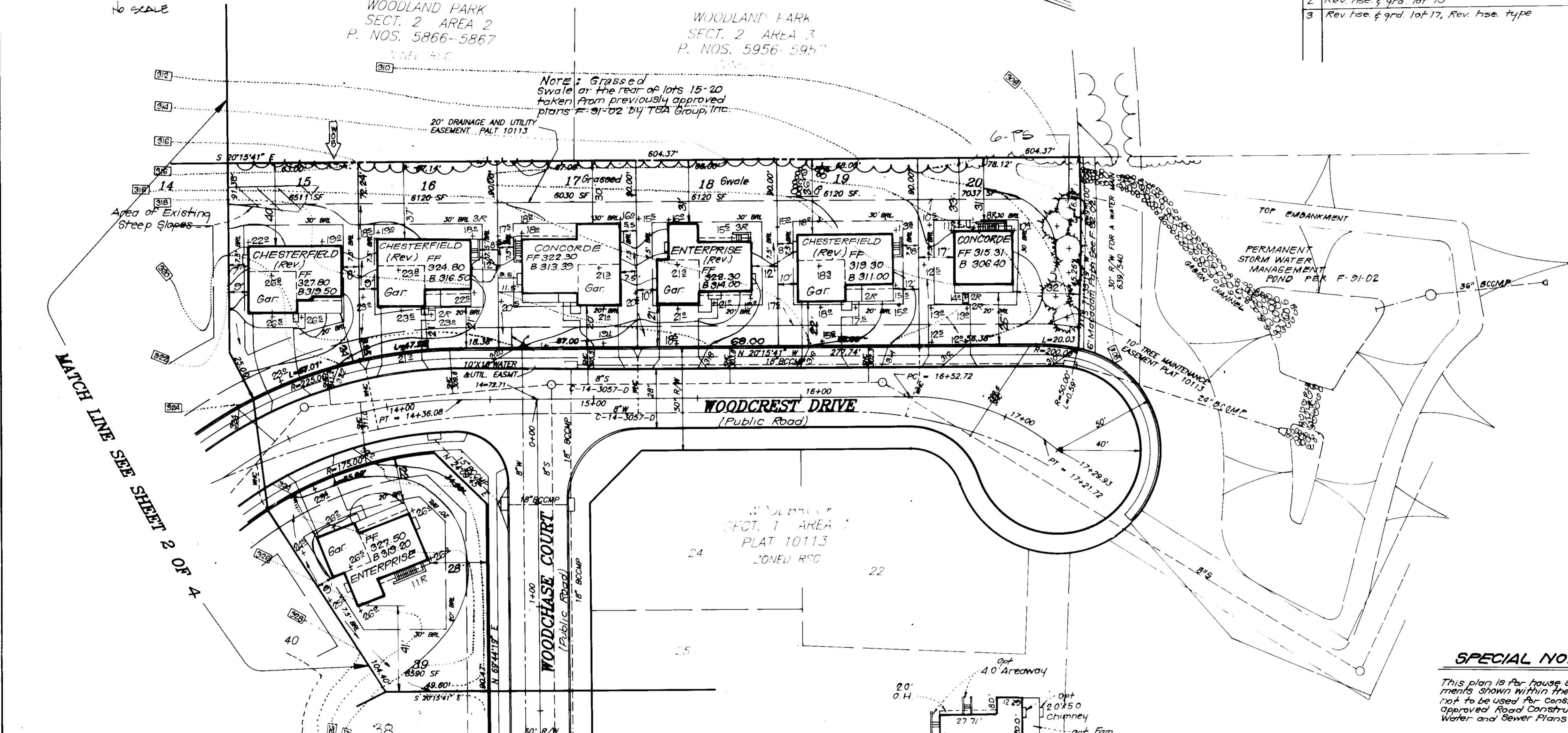
**LEGEND**



NO.	REVISIONS	Date
1	Rev. hse. & grad. lot 16	11/7/92
2	Rev. hse. & grad. lot 19	12/8/92
3	Rev. hse. & grad. lot 17, Rev. hse. type	6/24/93



**VICINITY MAP**  
SCALE: 1"=2000'



**GENERAL NOTES:**

- The contractor shall notify the Department of Public Works/Bureau of Construction Inspection a (301) 792-7272 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.
- The existing topography shown was field run by Clark, Finrock and Sackett, Inc. on 10-15-91.
- The coordinates shown hereon are based upon the Howard County Geodetic Control which is based upon the Maryland State Plane Coordinate System - Howard County Monument Nos.: 254-4001 & 254-4002.
- Storm water management is provided per: F-91-02.
- Any damage to county owned rights-of-way shall be corrected at the developer's expense.
- Utilities shown as existing are taken from approved water and sewer plan Contract #C-14-3057-D, approved road construction plans F-91-02, and actual field survey.
- Department of Planning and Zoning reference file numbers are: S-89-71, WP-89-180, P-90-17, F-91-02, F-92-62 & WP-92-122.
- All roadways are public and existing.
- Subject property is zoned: RSC per B-2-85 Comprehensive Zoning Plan.
- The total area included in this submission is: 5.40 Acres
- The total number of lots included in this submission are: 13
- The maximum lot coverage is: 40%
- Improvements to property: Single Family Detached Units.
- No clearing, grading or construction is permitted within wetlands or stream buffers except lots 39 & 40 per WP-92-122.
- For driveway entrance details refer to Howard County Design Manual Volume 4 Standard Detail R 6.03.
- Single car garages are for parking purposes only. In accordance with Section 127.B.2.b(18) of the Ho. Co. Zoning Regulations providing 2 off street parking spaces per unit.
- 20 foot wide Landscape Buffer shown in accordance with Section 18.116(f)(1) of the Subdivision and Land Development Regulations no clearing of existing vegetation is permitted, however, landscape maintenance is authorized.
- Porches or Deck open or enclosed may not project more than four feet into the required front or rear yard building restriction lines as per section 128 of the zoning regulations.
- Fireplace chimneys and Bay Windows not more than 10' in width may project not more than 4' into any required yard in accordance with Section 128 of the Zoning Regulations.
- WP-92-122 granted permission to Waive Section 18.116(c)(6) to allow grading on lots 39 & 40 within the 25' Stream Buffer for a driveway and Approving on lot 39.

**SPECIAL NOTES**

This plan is for house siting and lot grading only. Improvements shown within the rights-of-way on this S.D.P. are not to be used for construction. For construction, see approved Road Construction Plans, F-91-02, and/or approved Water and Sewer Plans Contract #C-14-3057-D.

ADDRESS CHART	
LOT NO.	STREET ADDRESS
15	6313 Woodcrest Drive
16	6317 Woodcrest Drive
17	6321 Woodcrest Drive
18	6325 Woodcrest Drive
19	6329 Woodcrest Drive
20	6333 Woodcrest Drive
39	6310 Woodcrest Drive

**SHEET INDEX**

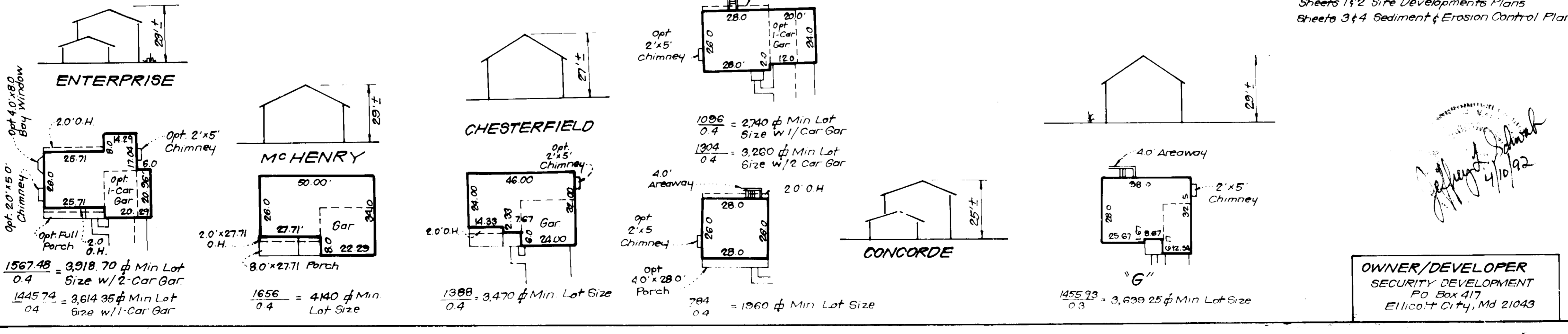
Sheets 1 & 2 Site Development Plans  
 Sheets 3 & 4 Sediment & Erosion Control Plans

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.  
 HOWARD COUNTY HEALTH DEPARTMENT  
 COUNTY HEALTH OFFICER: *[Signature]* DATE: 5-6-92

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING  
 DATE: 5/14/92

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIRECTOR: *[Signature]* DATE: 5/5/92

CHIEF BUREAU OF ENGINEERING DATE: 3-4-92



**CLARK • FINEFROCK & SACKETT, INC.**  
 ENGINEERS • PLANNERS • SURVEYORS

DESIGNED: JME  
 DRAWN: VHL, BAL  
 CHECKED: JME

OWNER/DEVELOPER: SECURITY DEVELOPMENT, 7111 WINDRILL WAY SUITE 215, COLLIERIA, MARYLAND 21043

SUBDIVISION NAME: WOODBROOK  
 SECTION/AREA: 1/1  
 LOTS/PARCELS: 11-20, 39-49, 51-60

PLAT NO.: 10112  
 BLOCK NO.: 14  
 ZONE: RSC  
 TAX MAP NO.: 37  
 ELECTION DIST.: 151  
 CENSUS TRACT: G011 02

WATER CODE: 0 05  
 SEWER CODE: 2650200

SITE DEVELOPMENT PLAN  
 LOTS 11-20, 39-49, AND 51-60

**WOODBROOK**  
 SECTION 1 AREA 1  
 1ST ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

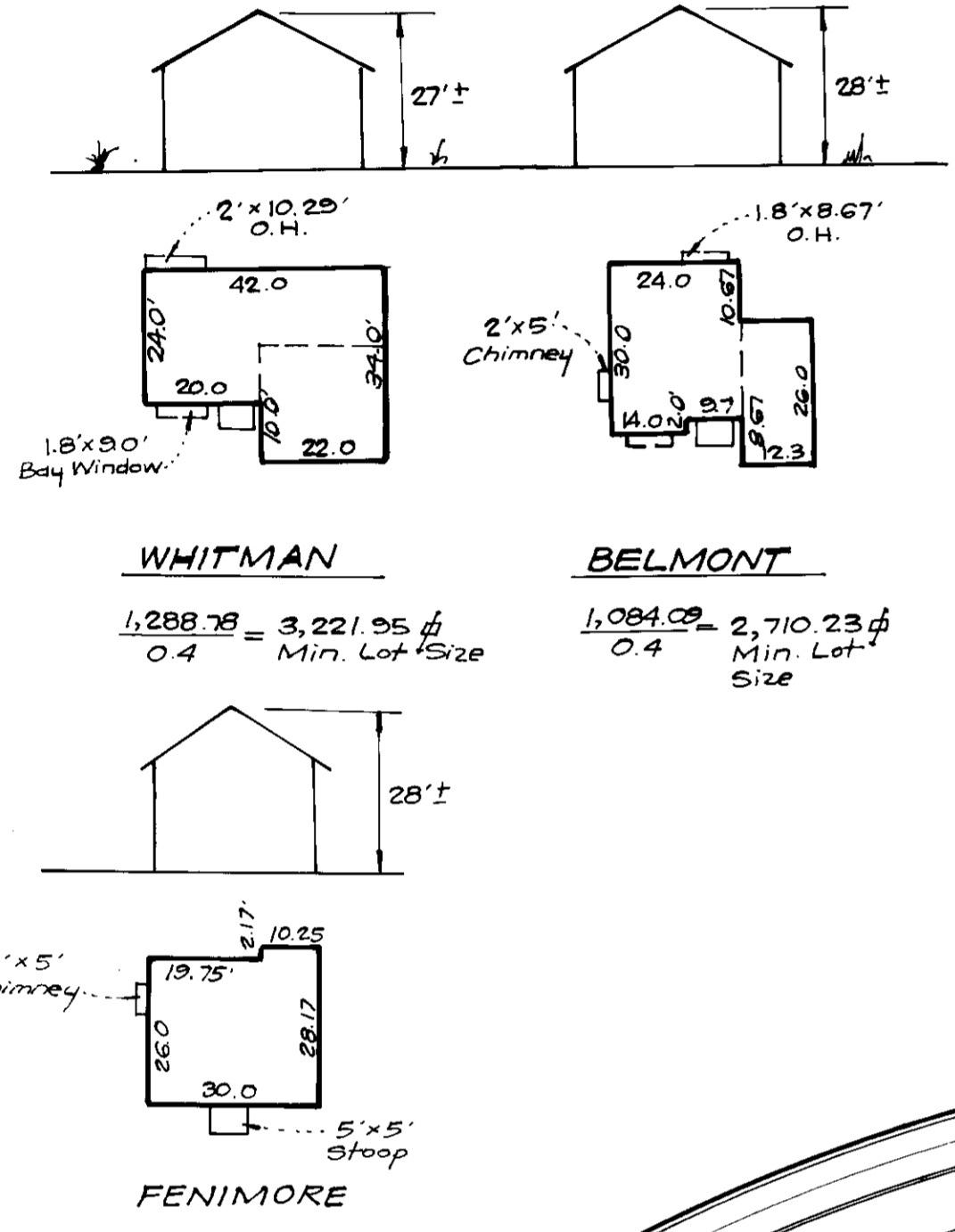
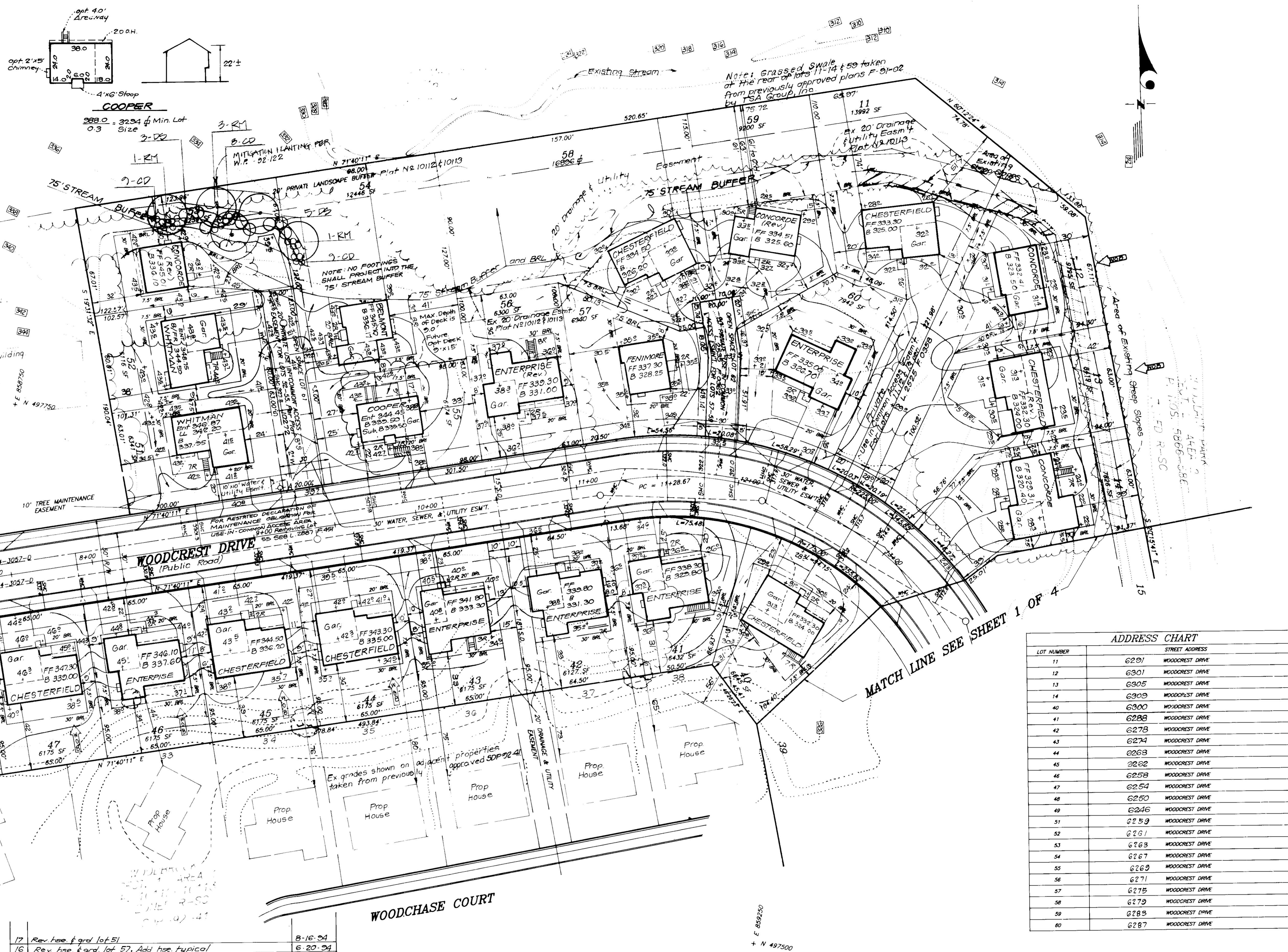
FOR: THE RYLAND GROUP, INC.  
 7111 WINDRILL WAY SUITE 215  
 COLLIERIA, MARYLAND 21045

SCALE: 1"=90'  
 DRAWING: 1 OF 4  
 JOB NO: 91-134  
 FILE NO: 91-134-X  
 DATE: JAN 1992

PLANT SCHEDULE FOR WP 1/2 IN MITIGATION

KEY	PLANT NAME	SIZE	RATY	REMARKS
RM	ACEE PLUM	6-8 HT.	5	P&B
DB	AMELANCHIER CANADENSIS	9-1 HT.	5	CAIT
CD	COENONYX LAEVOLENS	2'-3' HT.	20	CAIT

NOTES: 1. ALL PLANTING SHALL BE DONE IN ACCORDANCE WITH CAIT/WASH. LAND SPECIFICATIONS OF L.O.A.M.B.  
2. CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO DIGGING.



ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
11	6201 WOODCREST DRIVE
12	6301 WOODCREST DRIVE
13	6305 WOODCREST DRIVE
14	6309 WOODCREST DRIVE
40	6300 WOODCREST DRIVE
41	6288 WOODCREST DRIVE
42	6278 WOODCREST DRIVE
43	6274 WOODCREST DRIVE
44	6263 WOODCREST DRIVE
45	6262 WOODCREST DRIVE
46	6258 WOODCREST DRIVE
47	6254 WOODCREST DRIVE
48	6250 WOODCREST DRIVE
49	6246 WOODCREST DRIVE
51	6259 WOODCREST DRIVE
52	6261 WOODCREST DRIVE
53	6263 WOODCREST DRIVE
54	6267 WOODCREST DRIVE
55	6269 WOODCREST DRIVE
56	6271 WOODCREST DRIVE
57	6275 WOODCREST DRIVE
58	6279 WOODCREST DRIVE
59	6283 WOODCREST DRIVE
60	6287 WOODCREST DRIVE

NO	REVISIONS	DATE
17	Rev. hse. & grad. lot 51	8-16-92
16	Rev. hse. & grad. lot 57, Add hse. typical	6-20-92
15	Rev. hse. & grad. lot 42	2-2-92
14	Rev. hse. & grad. lot 59	9-29-93
13	Rev. hse. & grad. lot 14	8-13-93
12	Rev. hse. & grad. lot 43	8-3-93
11	Rev. hse. & grad. lot 55, Add hse. typical	7-2-93
10	Rev. hse. & grad. lots 52 & 54, Add hse. typicals	6-21-93
9	Rev. hse. & grad. lot 14	3-11-93
8	Rev. hse. & grad. lots 11 & 40	12-10-92
7	Rev. hse. & grad. lot 45	12-8-92
6	Rev. hse. & grad. lot 41	12-1-92
5	Add ex. driveway to rear of house on lot 56	11-17-92
4	Rev. hse. & grad. lot 46	11-17-92
3	Rev. hse. & grad. lot 58	9-18-92
2	Rev. hse. & grad. lot 13	8-27-92
1	Rev. hse. & grad. lot 48 from Enterprise to "G"	3-26-92

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT  
 COUNTY HEALTH OFFICER: *Joseph M. Boyd* 5-6-92  
 APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING  
 PLANNING OFFICER: *James K. Smith* 5/14/92  
 PLANNING OFFICER: *Thomas J. Hammill* 5/14/92  
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIRECTOR: *James G. Law* 5/5/92  
 CHIEF BUREAU OF ENGINEERING: *William R. Reay* 5-4-92

OWNER/DEVELOPER  
 SECURITY DEVELOPMENT  
 P.O. Box 4.7  
 Elllicott City, Md 21043

**CLARK • FINEROCK & SACKETT, INC.**  
 ENGINEERS • PLANNERS • SURVEYORS  
 7135 MINSTREL WAY • COLUMBIA, MD 21045 • (301) 381-7500 • BALTO. • (301) 621-8100 - WASH.

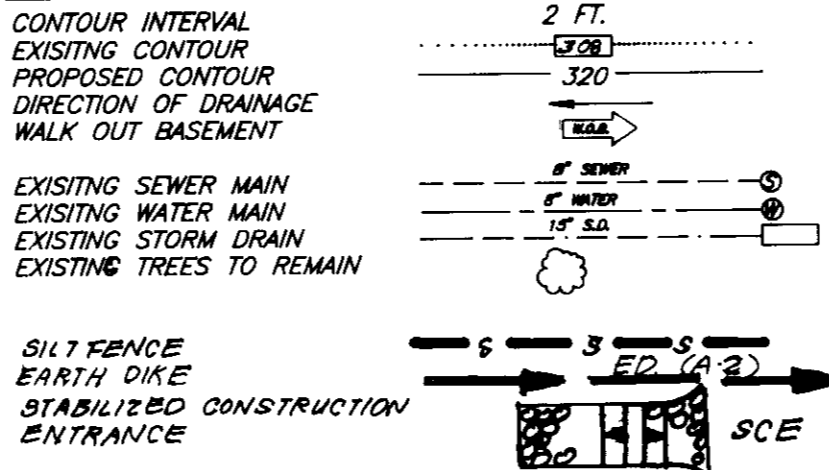
DESIGNED: JME  
 DRAWN: VLP, BAL  
 CHECKED: JME  
 DATE: Jan., 1992

SITE DEVELOPMENT PLAN  
 LOTS 11-20, 39-49, AND 51-60  
**WOODBROOK**  
 SECTION 1 AREA 1  
 1ST ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

FOR: THE RYLAND GROUP, INC.  
 7130 MINSTREL WAY SUITE 215  
 HOWARD COUNTY, MARYLAND 21045

SCALE: 1"=30'  
 DRAWING: 2 of 4  
 JOB NO.: 91-134  
 FILE NO.: 91-134-X

**LEGEND**



**TRAP #1 S.O.S.T. (ST-V)**

D.A. = 3.10 Acres  
 Storage Required = 180 X3.1 = 5580CF  
 Storage Provided = 5720CF  
 Depth = 4'  
 Top of Stone Weir = 308.0  
 Bottom Elevation = 303.0  
 Clean Out Elevation = 305.0  
 Bottom Dimensions = 57' X 14'  
 2:1 Side Slopes  
 L = 12'

**NOTE: DELAY CONSTRUCTION ON LOT 20 UNTIL AREA DRAINING TO TRAP #1 HAS BEEN STABILIZED.**

**NOTE: THE BUILDER IS RESPONSIBLE FOR REMOVING SEDIMENTS FROM THE SWM POND WHICH ARE ATTRIBUTED TO HOUSE CONSTRUCTION AND LOT GRADING PROPOSED ON THESE PLANS.**

**PERMANENT SEEDING NOTES**

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

**SEEDING PREPARATION:** Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously 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/100 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 30-0-0 uniform 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 thru April 30, and August 1 thru October 15, seed with 6000 lbs per acre (1.4 lbs/1000 sq ft) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs. Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (0.5 lbs/1000 sq ft) of weeping lovegrass. During the period of October 16 thru February 28, protect site by: Option (1) 2 tons per acre well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use soil. Option (3) Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

**MULCHING:** Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of untreated small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq ft) of untreated 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 reseeding.

**TEMPORARY SEEDING NOTES**

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 (14 lbs/1000 sq ft).

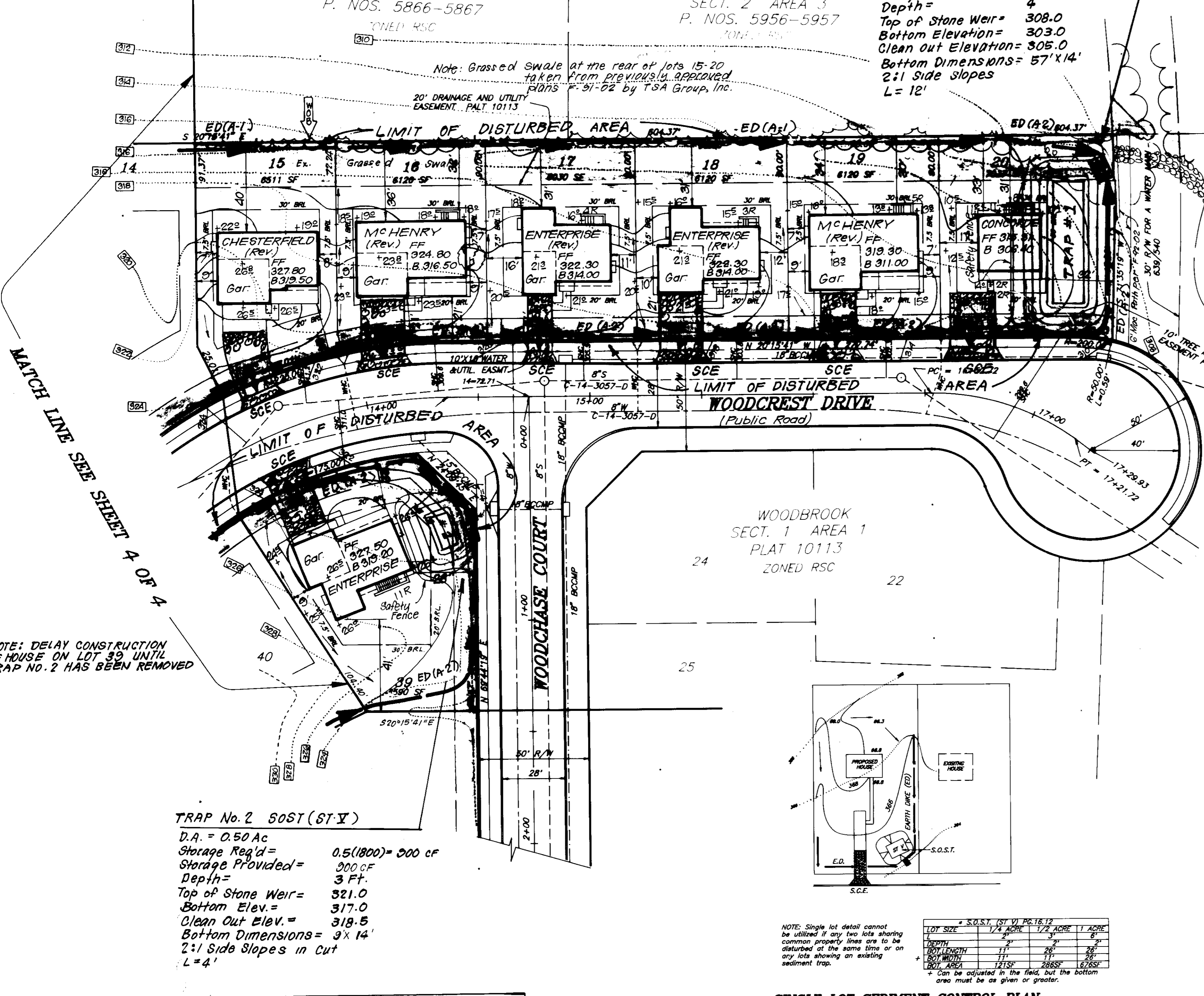
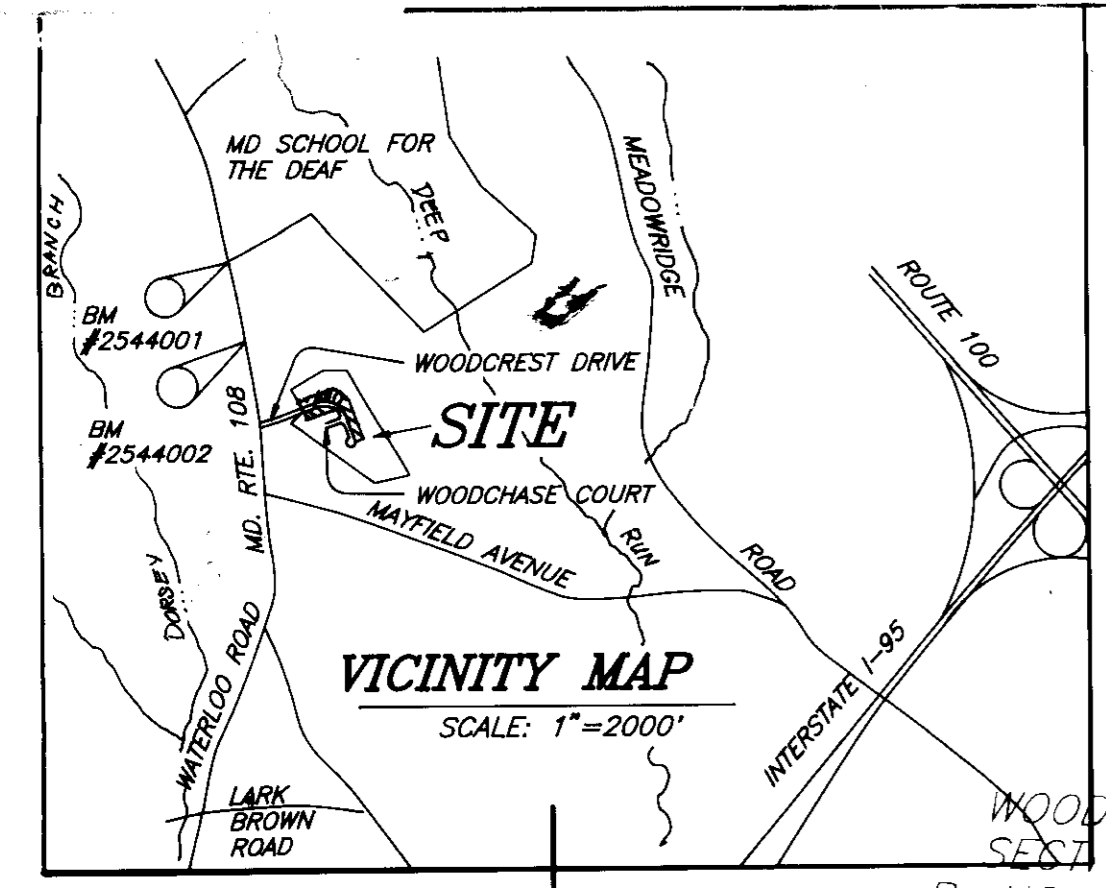
**SEEDING:** For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2 1/2 bushel per acre of annual ryegrass (3.2 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (0.7 lbs/1000 sq ft). For the period November 16 thru February 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 soil.

**MULCHING:** Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of untreated small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq ft) of untreated asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq ft) for anchoring.

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

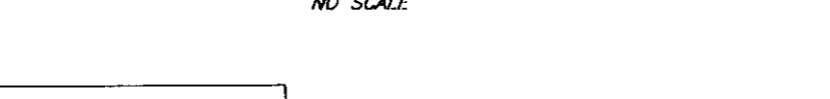
**SEDIMENT AND EROSION CONTROL NOTES**

- A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permitting prior to the start of any construction. (992-2437)
- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in accordance with the 1983 MARYLAND STANDARDS AND SPECS. FOR SOIL EROSION AND SEDIMENT CONTROL.
- Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within 30 days. Temporary stabilization shall be completed within 14 days. Permanent stabilization shall be completed within 14 days. All slopes greater than 3:1, 14 days after all other disturbed or graded areas on the project site.
- All sediment traps/basins shown must be fenced and warning signs posted around their perimeters 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 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51) soil (Sec. 54), temporary seedings (Sec. 53) and mulching (Sec. 52). Temporary stabilization with much slope 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 permission are to be removed has been obtained from the Howard County Sediment Control Inspector.
- SITE ANALYSIS:**  
 Total Area of Site: 5.49 Ac.  
 Area to be seeded or planted: 1.82 Ac.  
 Area to be vegetatively stabilized: 3.67 Ac.  
 Total Cost: 7700.00  
 Total Area: 5.49 Ac.
- Off-site Waste/Borrow Area Location:  
 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. Sediment control practices shall be provided, if deemed necessary by the Howard County DPW 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 perimeter erosion and sediment controls, but before grading or any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.  
 10. If houses are to be constructed on an "as sold" basis, at random, Single Family Sediment Control, as shown below shall be implemented.  
 11. All plans are to be submitted at the end of each day (see detail 11-1000) 1/16" = 1" = 36.00' F.  
 12. The total amount of all site fences = 3630 LF.
- It is the responsibility of the contractor to identify the spoil/borrow site and notify and gain approval from the sediment control inspector of the site and it's grading permit number at the time of construction.



**TRAP No. 2 SOST (ST-V)**  
 D.A. = 0.50 Ac  
 Storage Req'd = 0.5(1800) = 900 CF  
 Storage Provided = 900 CF  
 Depth = 3 FT.  
 Top of Stone Weir = 321.0  
 Bottom Elev. = 317.0  
 Clean Out Elev. = 318.5  
 Bottom Dimensions = 9' X 14'  
 2:1 Side Slopes in cut  
 L = 4'

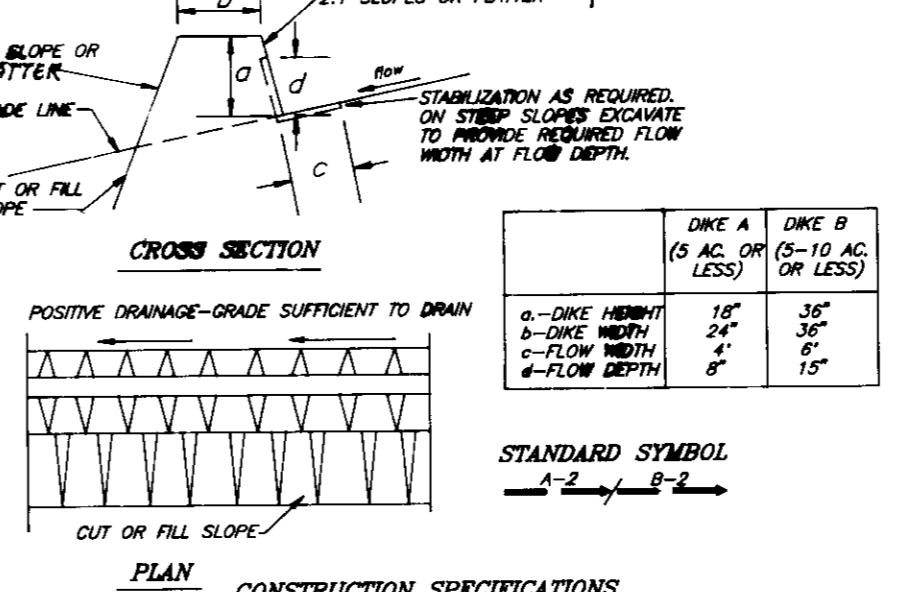
**SINGLE LOT SEDIMENT CONTROL PLAN**



NO SCALE

LOT SIZE	1/2 ACRE	1/2 ACRE	1 ACRE
DEPTH	2'	2'	2'
LENGTH	11'	11'	11'
WIDTH	11'	11'	11'
TOTAL AREA	1215'	1215'	1215'

NOTE: Single lot detail cannot be utilized if any two lots abutting common property lines are to be disturbed at the same time or on any lots showing an existing sediment trap.



**CONSTRUCTION SPECIFICATIONS**

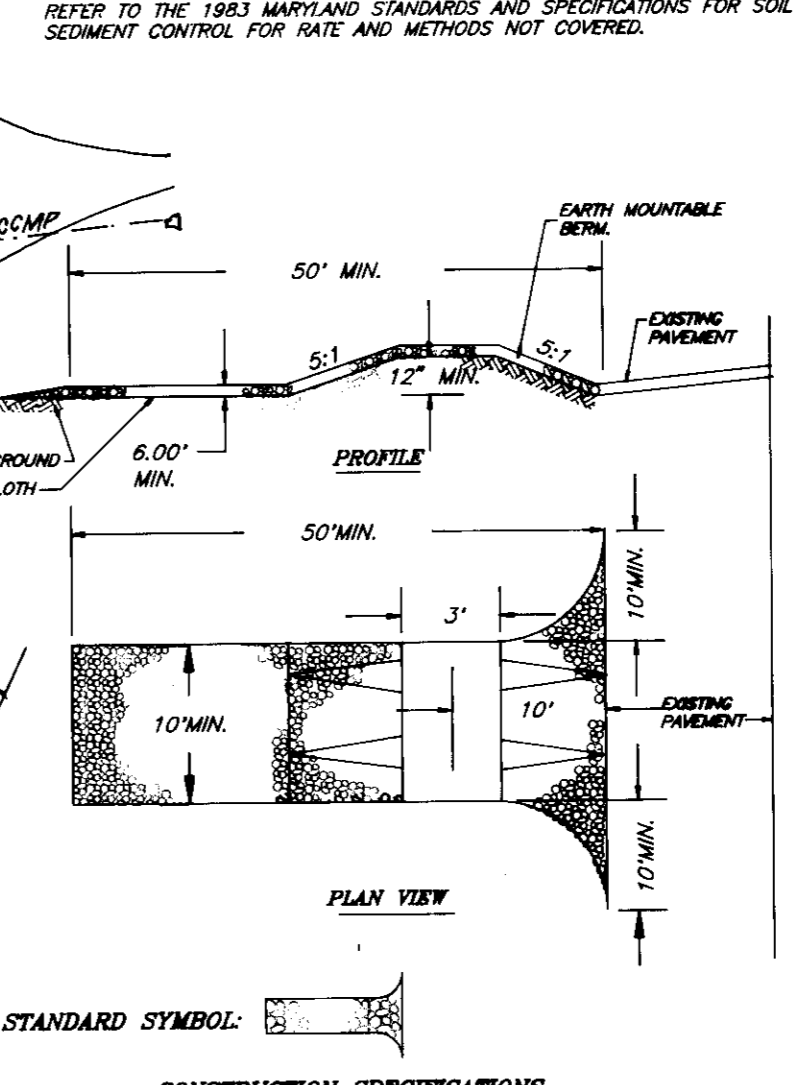
- All dikes shall be compacted by earth moving equipment.
- All dikes shall have positive drainage to an outlet.
- Top width may be wider and side slopes may be flatter if desired to facilitate crossing by construction traffic.
- Flatter locations should be adjusted as needed to utilize a stabilized soil outlet.
- Earth dikes shall have an outlet that functions with a minimum of erosion. Runoff shall be conveyed to a sediment trapping device such as a sediment trap or sediment basin where either the outlet or the drainage area above the dike are not constructively stabilized.
- Stabilization shall be (A) in accordance with standard specifications for seed and straw mulch or stone mulch if not in nearby areas, (B) Flow channel as per the chart below.

TYPE OF TREATMENT	CHANNEL GRADE	DIKE A (5 AC. OR LESS)	DIKE B (5-10 AC. OR LESS)
1	0.5-1.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	1.1-5.0%	SEED AND STRAW MULCH	SEED USING JUTE OR STONE EXCELSSION SOIL 2" STONE
3	5.1-8.0%	SEED WITH JUTE OR SOIL	LINED RP-RIP 4"-6"
4	8.1-20%	LINED RP-RIP 4"-6"	ENGINEERING DESIGN

A. Stone to be 2 inch stone, or recycled concrete equivalent, in a layer of least 3 inches in thickness and be presented into the soil with construction equipment.  
 B. Rip to be 4-6 inches in a layer of least 3 inches thick and presented into the soil.  
 C. Approved equivalents can be substituted for any of the above materials.  
 7. Periodic inspection and required maintenance must be provided after each rain event.

**EARTH DIKE (ED)**

NO SCALE



**CONSTRUCTION SPECIFICATIONS**

- STONE SIZE: USE 2" STONE OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH: AS REQUIRED, BUT NOT LESS THAN 30 FEET (EXCEPT ON A DESIGN LIST WHICH MAY BE LESS THAN 30 FEET).
- THICKNESS: NOT LESS THAN SIX (6) INCHES.
- WIDTH: TEN (10) FEET MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE IMPROVED OR EXCESS OCCUR.
- FILTER CLOTH: WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER CLOTH WILL NOT BE REQUIRED ON A SINGLE SLOPE ENTRANCE.
- SURFACE WATER: ALL SURFACE WATER FLOWING OR OVERWHELED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE.
- PERIMETER: PERIMETER SHALL BE FINISHED WITH PUBLIC RIGHTS-OF-WAY OR ANY MEASURES USED TO TRIM SEDIMENT. ALL SEDIMENT PRIOR TO CONSTRUCTION SHALL BE REMOVED WITH PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SHALL BE REMOVED IMMEDIATELY.
- ENTRANCE: ENTRANCE SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN IMPROVED IS REQUIRED, IT SHALL BE DONE ON AN APPROVED STABILIZED SOIL AND WHEN DRAINING INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAINFALL.

**STABILIZED CONSTRUCTION ENTRANCE (SCE)**

NO SCALE

**CONSTRUCTION SEQUENCE:**

	NO. OF DAYS
A. Obtain grading permit and install sediment and erosion control devices and stabilize.	7
* B. Excavate for foundations, rough grade and temporarily stabilize.	14
C. Construct structures, sidewalks and driveways.	60
D. Final grade and stabilize in accordance with Stds. and Specs.	14
E. Upon approval of the sediment control inspector, remove sediment and erosion control devices and stabilize.	7

\* Delay Construction of House on Lots 20 & 30 until the Traps have been removed and the area draining to them has been stabilized.

**OWNER / DEVELOPER SECURITY DEVELOPMENT**  
 P.O. Box 417  
 Ellicott City, Md. 21043

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
 HOWARD COUNTY HEALTH DEPARTMENT.  
 COUNTY HEALTH OFFICER: *Joseph A. Boyle* DATE: 5-6-92

APPROVED - HOWARD COUNTY DEPT. OF PLANNING & ZONING  
 DIRECTOR: *James J. Helms* DATE: 5/18/92  
 CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT: *James J. Helms* DATE: 8/1/92

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE  
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIRECTOR: *James J. Helms* DATE: 5/5/92  
 CHIEF BUREAU OF ENGINEERING: *James J. Helms* DATE: 5-4-92

viewed for HOWARD S.C.D. Name: *James J. Helms* Date: *5/18/92*  
 Signature: *James J. Helms*  
 US Soil Conservation Service

DEVELOPER'S/BUILDER'S CERTIFICATE  
 NO SCALE  
 I/We certify that all development and construction will be done according to this plan of development and plan for sediment and erosion control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary.  
 Signature: *James J. Helms* Date: *5/18/92*

ENGINEER'S CERTIFICATE  
 I hereby certify that this plan for Sediment and Erosion Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.  
 Signature: *Jeffrey J. Schmitt* Date: *1/14/92*

**CLARK • FINEFROCK & SACKETT, INC.**  
 ENGINEERS • PLANNERS • SURVEYORS

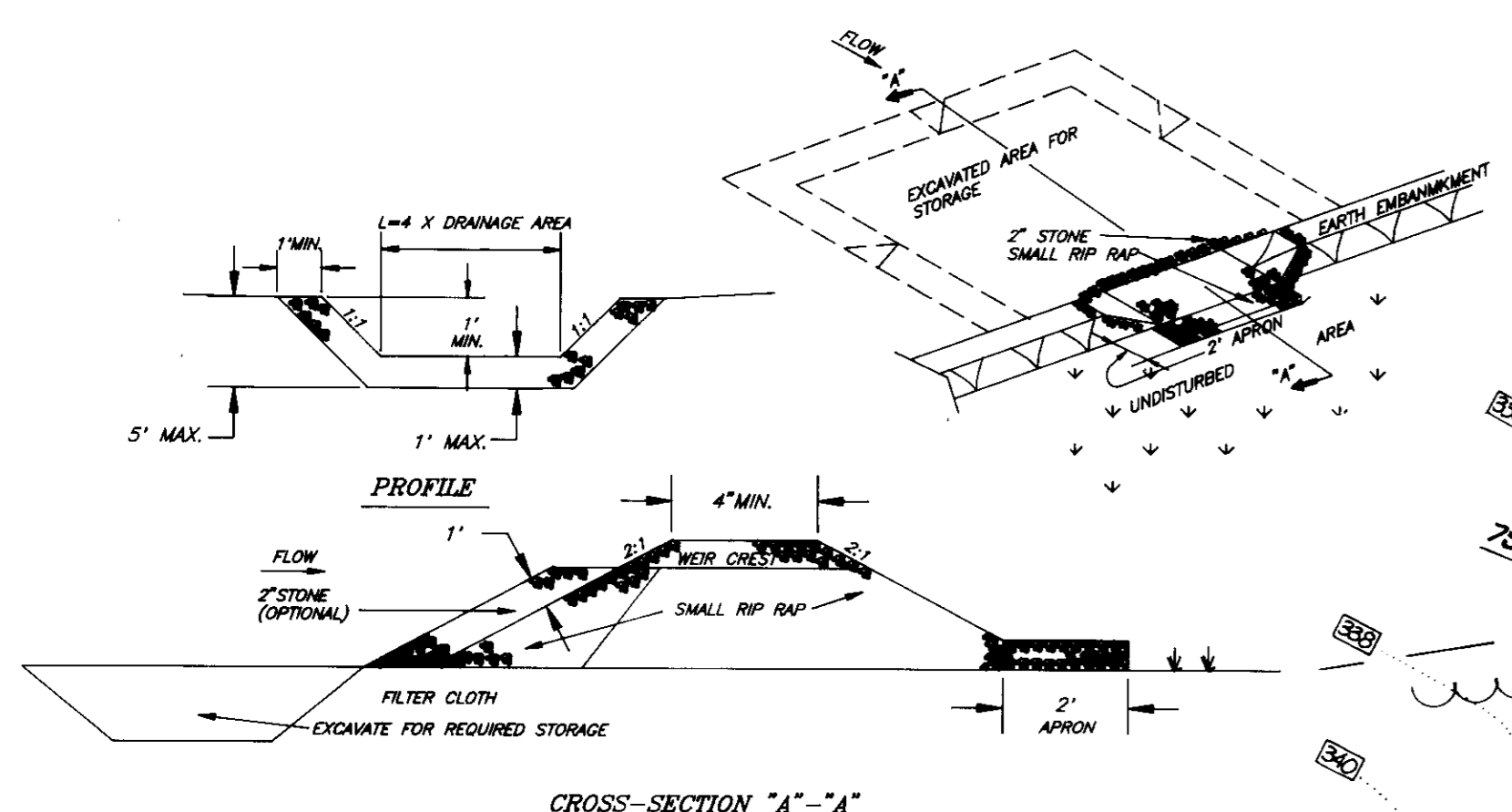
DESIGNED: **SEDIMENT AND EROSION CONTROL DETAILS**  
 LOTS 11, 20, 39, 49, AND 51 60  
 SCALE: 1"=30'

DRAWN: **KIWM**  
 CHECKED: **KIWM**  
 DATE: **JAN. 1992**

**WOODBROOK**  
 SECTION 1 AREA 1  
 1ST ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

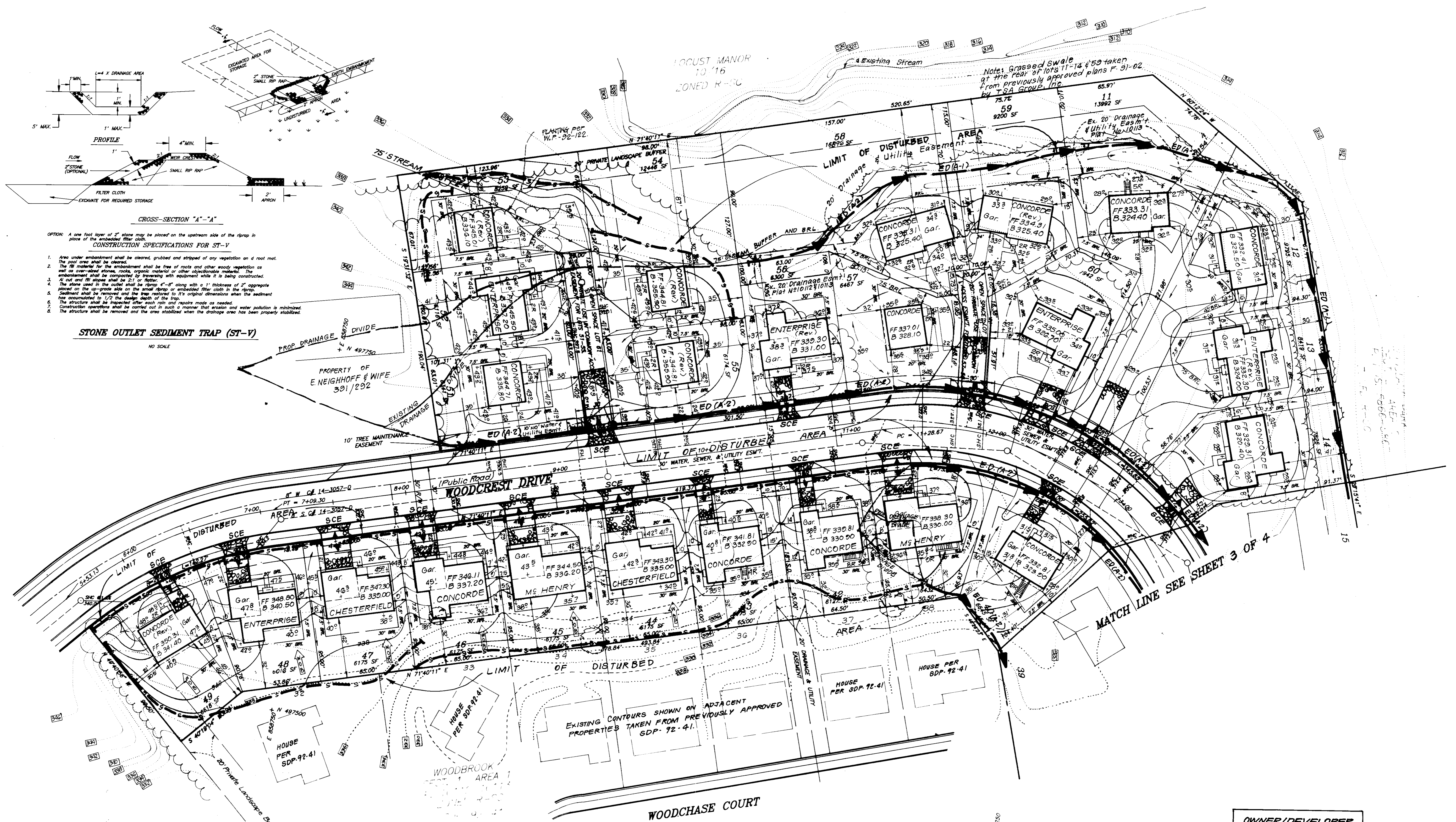
FOR: THE RYAN GROUP, INC.  
 2110 MINISTREL WAY SUITE 215  
 COLLEGE PARK, MARYLAND 21046

JOB NO: 91-134  
 FILE NO: 91/134 SE



- CROSS-SECTION "A-A"**
- OPTION: A one foot layer of 2" stone may be placed on the upstream side of the riprap in place of the embedded filter cloth.
- CONSTRUCTION SPECIFICATIONS FOR ST-V**
- Area under embankment shall be cleared, grubbed and stripped of any vegetation on a root mat. The soil area shall be covered.
  - The fill material for the embankment shall be free of roots and other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The embankment shall be constructed by traversing with equipment while it is being constructed.
  - A cut and fill slope shall be 2:1 or flatter.
  - The stone used in the outlet shall be riprap 4"-8" along with a 1" thickness of 2" aggregate placed on the up-slope side on the small riprap or embedded filter cloth in the riprap.
  - Sediment shall be removed and the trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap.
  - The structure shall be inspected after each rain and repairs made as needed.
  - Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
  - The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

**STONE OUTLET SEDIMENT TRAP (ST-V)**  
NO SCALE



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.  
HOWARD COUNTY HEALTH DEPARTMENT

*Joseph B. Bond* 5-6-92  
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

*James J. Bond* 5/14/92  
DIRECTOR DATE

*William J. Bond* 5/11/92  
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*James J. Bond* 5/5/92  
DIRECTOR DATE

*William J. Bond* 5-4-92  
CHIEF BUREAU OF ENGINEERING DATE

Reviewed for HOWARD COUNTY S.C.D. Name: *James J. Bond* Date: *5/14/92*

Signature: *James J. Bond* Date: *5/14/92*

US Soil Conservation Service

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

*James J. Bond* Approved

DEVELOPER'S/BUILDER'S CERTIFICATE

"I/We certify that all development and construction will be done according to this plan of development and plan for sediment and erosion control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary."

*James J. Bond* 1-14-92  
Signature Date

ENGINEER'S CERTIFICATE

I hereby certify that this plan for Sediment and Erosion Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

*Jeffrey L. Schaub* 1/14/92  
Signature Date

OWNER/DEVELOPER  
SECURITY DEVELOPMENT  
P.O. Box 417  
Ellicott City, Md. 21043

<b>CLARK • FINEFROCK &amp; SACKETT, INC.</b> ENGINEERS • PLANNERS • SURVEYORS 7130 MOUNTAIN VIEW WAY • COLUMBIA, MD. 21046 • (301) 991-7200 • BALTO. • ELICOTT CITY, MARYL.		
DESIGNED KIWM	<b>SEDIMENT &amp; EROSION CONTROL PLAN</b> LOTS 11-20, 39-49, AND 51-60  <b>WOODBROOK</b>  SECTION 1 AREA 1 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE 1"=30'
DRAWN VLP BAL		DRAWING 4 of 4
CHECKED JLS	JOB NO 01-134	FILE NO 01-134SE
DATE Jan, 1992	FOR: THE RYLAND GROUP, INC. 7130 MOUNTAIN VIEW SUITE 215 HOWARD COUNTY, MARYLAND 21045	