LEGEND

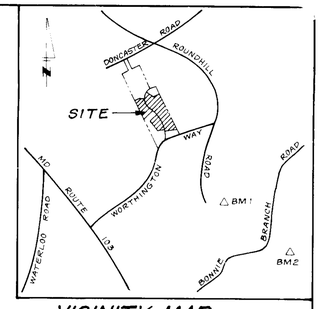
Contour Interval 2 Ft
Existing Contour
Proposed Contour
Spot Elevation +90.2
Direction of Drainage
Existing Trees to Remain
Tree Protection Fence

MINIMUM LOT SIZE TABLE

Lot No.	Gross Area	Pipe Stem Area	Ex. Steep Slope (To remain)	Prop. Steep Slope Area	Flood Plain Area	Net Area
1	18475	N/A	1925	N/A	N/A	16,550 ±
2	15128	N/A	575	280	N/A	14,233 ±
3	15856	N/A	650	3290	N/A	11,956 ±
20	14713	N/A	450	2650	N/A	11,613 ±
21	14222	N/A	130	500	N/A	13,592 ±
22	14209	N/A	N/A	950	N/A	13,850 ±
23	14135	N/A	N/A	130	N/A	14,005 ±
24	20078	N/A	435	2250	N/A	17,393 ±

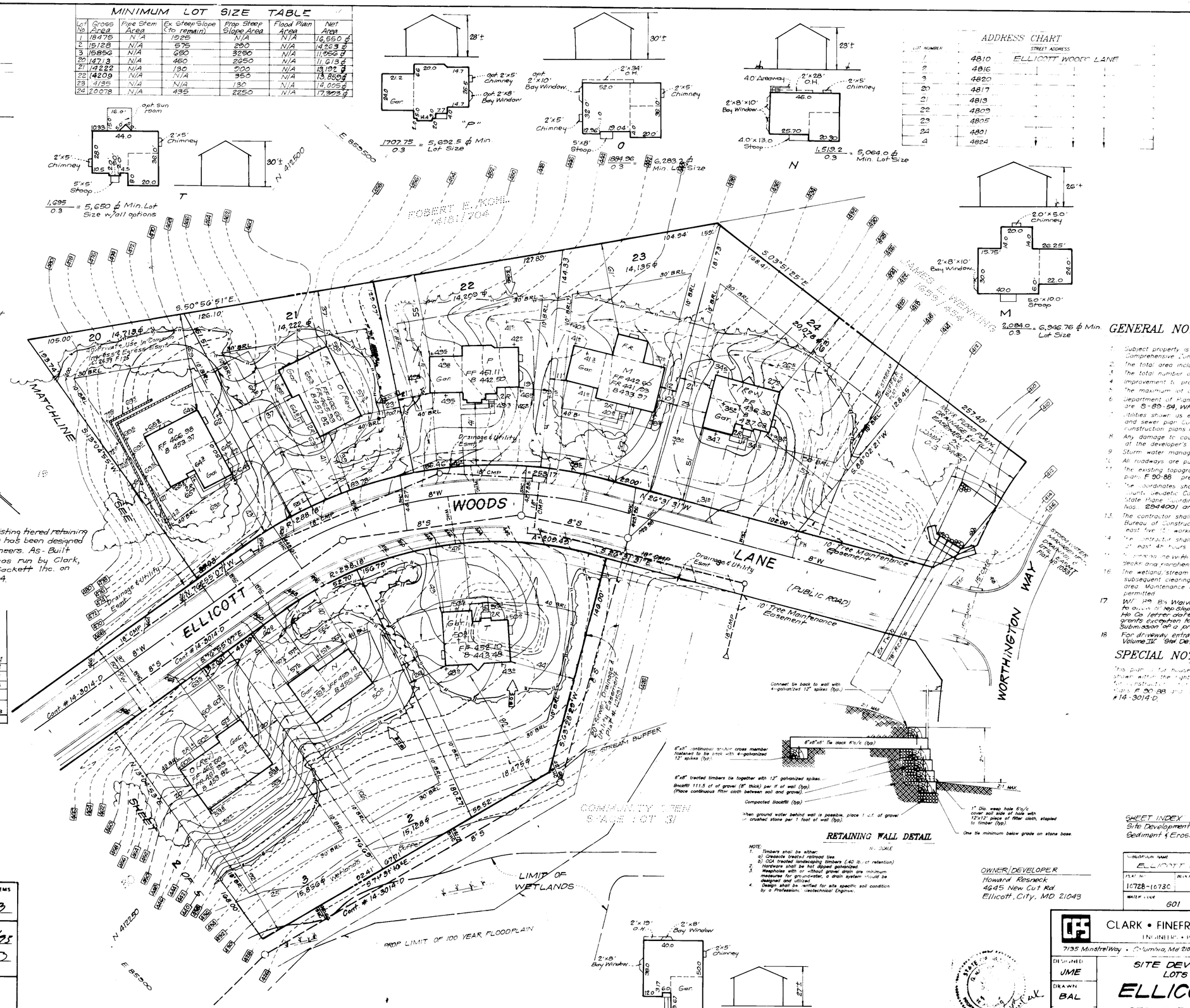
ADDRESS CHART

LOT NUMBER	STREET ADDRESS ELLICOTT WOODS LANE
1	4810
2	4816
3	4820
20	4817
21	4813
22	4809
23	4805
24	4801
4	4824



VICINITY MAP

Scale 1" = 2000'



Nº	REVISIONS	Date
6	Add As-Built retaining wall and topo to lot 20	10-20-94
5	Rev. hse. & grd. lot 20, Add hse. typical	4-21-94
4	Rev. hse. & grd. lots 3 and 20	3-24-94
3	Rev. hse. & grd. lots 1, 21 & 24 Add hse. types	10-4-93
2	Rev. hse. & grd. lot 22 Add hse. typical	8-13-93
1	Rev. hse. and grd. lots 2, 23, 24 and add hse. typicals	7-20-93

GENERAL NOTES:

1. Subject property is zoned R-20 as per 6/2/94 Comprehensive Zoning Plan.
2. The total area included in this submission is 303,208 ± or 6.962 Ac.
3. The total number of lots included in this submission are 17.
4. Improvement to property: Single family, detached.
5. The maximum lot coverage permitted is 30%.
6. Department of Planning and Zoning reference file numbers are S-89-54, WP-89-83, F-90-88.
7. Utilities shown as existing are taken from approved water and sewer plan Contract #14-3014-D, approved road construction plans F-90-88, and actual field survey.
8. Any damage to county owned rights of way shall be corrected at the developer's expense.
9. Storm water management is provided per F-90-88.
10. All roadways are public and existing.
11. The existing topography shown was taken from road construction plans F-90-88, prepared by Dewberry & Davis.
12. 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. 2944001 and 2944002.
13. The contractor shall notify the Department of Public Works/ Bureau of Construction Inspection at (301) 792-7672 at least five (5) working days prior to the start of work.
14. The contractor shall notify "Miss Utility" at 1-800-257-7777 at least 48 hours prior to any excavation work.
15. In order to comply with Section 128 of the Zoning Regulations, decks and porches may exceed up to 6' into the required front or rear setback.
16. The wetland/stream buffer indicated on the plan prohibits subsequent clearing, grading or construction in the buffer area. Maintenance of residences, landscaping and utilities is permitted.
17. WP-89-83 Waiver grants approval from Section 16.116.c.4 to allow 3:1 rep. Slopes to count toward minimum lot size. See Ho. Co. letter dated Feb. 24, 1989. WP-89-83 waiver also grants exception to 16.120 of the Ho. Co. Code requiring the Submission of a preliminary plan.
18. For driveway entrance details refer to Ho. Co. Design Manual Volume IV Std. Details: R-6.01 & R-6.05.

SPECIAL NOTES:

This plan is for house siting and lot grading only. Improvements shown within the rights of way in this plan are not to be used for construction. Road construction see approved road construction plans F-90-88 and approved water and sewer plans Contract #14-3014-D.

SHEET INDEX
Site Development Plan Sheets 1 & 2
Sediment & Erosion Control Plan Sheets 3, 4 & 5

OWNER/DEVELOPER
Howard Resneck
4645 New Cut Rd.
Ellicott City, MD 21043

SUBDIVISION NAME			SECTION/AREA	LOT/PARCELS
ELLICOTT WOODS			N/A	1-3, 5-7, 15-21, 30
PLAT NO.	BLOCK NO.	ZONE	TAX MAP NO.	ELECTION DIST.	CENSUS TRACT
10728-10730		R-20	31	2ND	
WATER CODE			SEWER CODE	
601			1257025	

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 3/12/93

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
DIRECTOR — DATE 3/19/93
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 3/19/93

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 3/10/93
CHIEF BUREAU OF ENGINEERING — DATE 3-10-93

CLARK • FINEFROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS
7135 Minstrel Way • Columbia, Md 21045 • (410) 381-7500 - Balto. (301) 621-8100 Wash.

DESIGNED JME	SITE DEVELOPMENT PLAN LOTS 1-3, 5-7, 15-24 & 30	SCALE 1" = 30'
DRAWN BAL	ELLICOTT WOODS	DRAWING 1 OF 5
CHECKED JME	SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO. 92 033
DATE Oct 1992	FOR: PATRIOT HOMES, INC. PO BOX 1018 Columbia, Md 21044	FILE NO. 92 033X

2-8-93

SDP 93-36

ADDRESS CHART

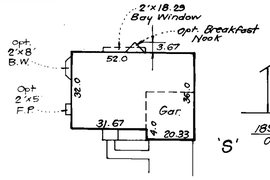
LOT NO	STREET ADDRESS
5	4828 Ellicott Woods Lane
6	4832
7	4836
15	4837
16	4833
17	4825
18	4825
19	4821

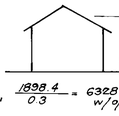
REVISION

No.	REVISION	Date
1	Rev. hse. & grd. lots 16 & 18, Add hse. typical "T"	1-19-94
2	Rev. hse. & grd. lot 17, Add hse. typical	3-4-94
3	Rev. hse. & grd. lot 15, Rev. hse. typical	3-11-94
4	Rev. hse. & grd. lot 19 & 7, Add house typical	4-22-94
5	Rev. hse. & grd. lot 15	10-27-94
6	Rev. hse. & grd. Lots 5 & 6, Add B-2 & T-2 hse. typicals	7-10-95

MINIMUM LOT SIZE TABLE

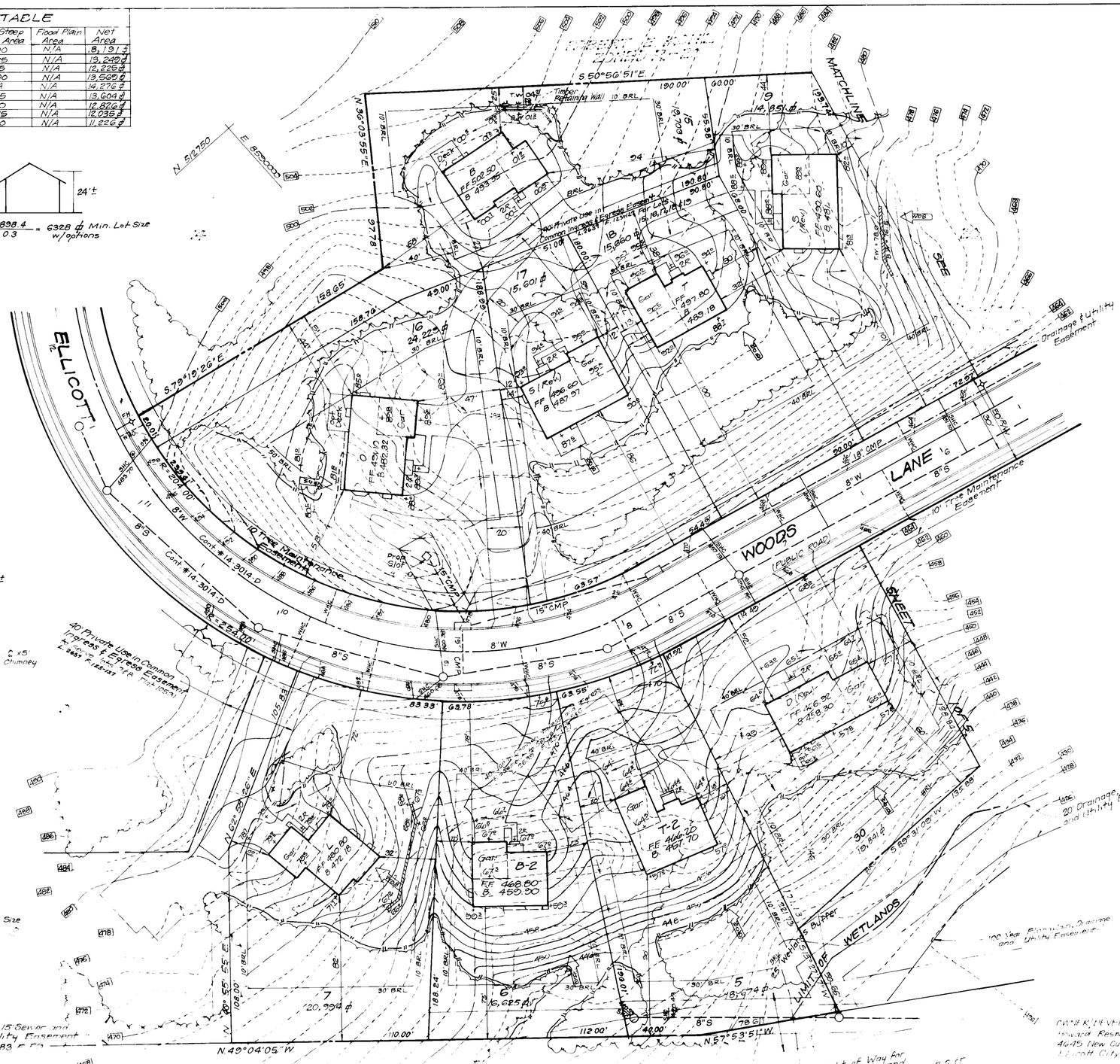
Lot No.	Gross Area	Pipe Stem Area	Ex. Steep Slope (to remain)	Prop Steep Slope Area	Flood Plain Area	Net Area
4	30143	N/A	11,150	500	N/A	8,191 ±
5	18,674	N/A	3100	2325	N/A	13,249 ±
6	16625	N/A	575	3825	N/A	12,225 ±
7	20594	N/A	2425	5000	N/A	13,569 ±
15	16709	3177	2250	N/A	N/A	14,276 ±
16	24229	N/A	1850	8775	N/A	13,604 ±
17	15601	N/A	925	1850	N/A	12,826 ±
18	15660	N/A	N/A	3225	N/A	12,035 ±
19	14851	N/A	225	3400	N/A	11,226 ±

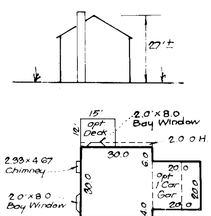




'S'

$\frac{1898.4}{0.3}$ = 6328 ± Min. Lot Size w/options

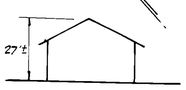


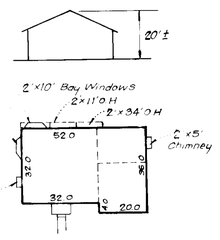


A

1 Car Gar = $\frac{1530}{0.3}$ = 5100 ± Min Lot Size

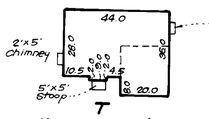
2 Car Gar = $\frac{1690}{0.3}$ = 5633.33 ± Min Lot Size





O

$\frac{1912}{0.3}$ 6373.33 ± Min Lot Size



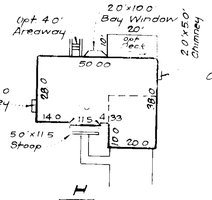
T

$\frac{1455}{0.3}$ = 4,850.0 ± Min. Lot Size

TYPICAL HOUSES

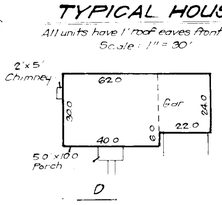
All units have 1' roof eaves front and rear

Scale: 1" = 30'



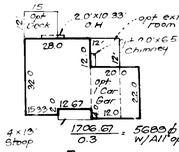
H

$\frac{1661.5}{0.3}$ = 5,538.33 ± Min Lot Size



D

$\frac{1778}{0.3}$ = 5,926.7 ± Min Lot Size

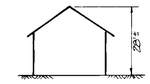


B

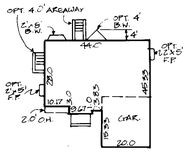
$\frac{1706.67}{0.3}$ = 5688 ± min. lot Size w/All options

1 Car Gar = $\frac{1,421.34}{0.3}$ = 4737.8 Min Lot Size

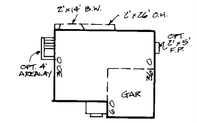
2 Car Gar = $\frac{1,597.34}{0.3}$ = 5,324.46 Min Lot Size

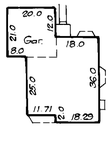


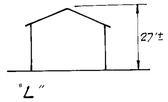
T-2



B-2







"L"

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

Joyce M. Beyer for JGM — 3/12/93
COUNTY HEALTH OFFICER — DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

Lewis Kelly — 3/19/93
DIRECTOR — DATE

Ellen M. Gibbons — 3/19/93
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

3.9.93
DIRECTOR — DATE

3-10-93
CHIEF, BUREAU OF ENGINEERING — DATE

CLARK • FINEFROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS
410

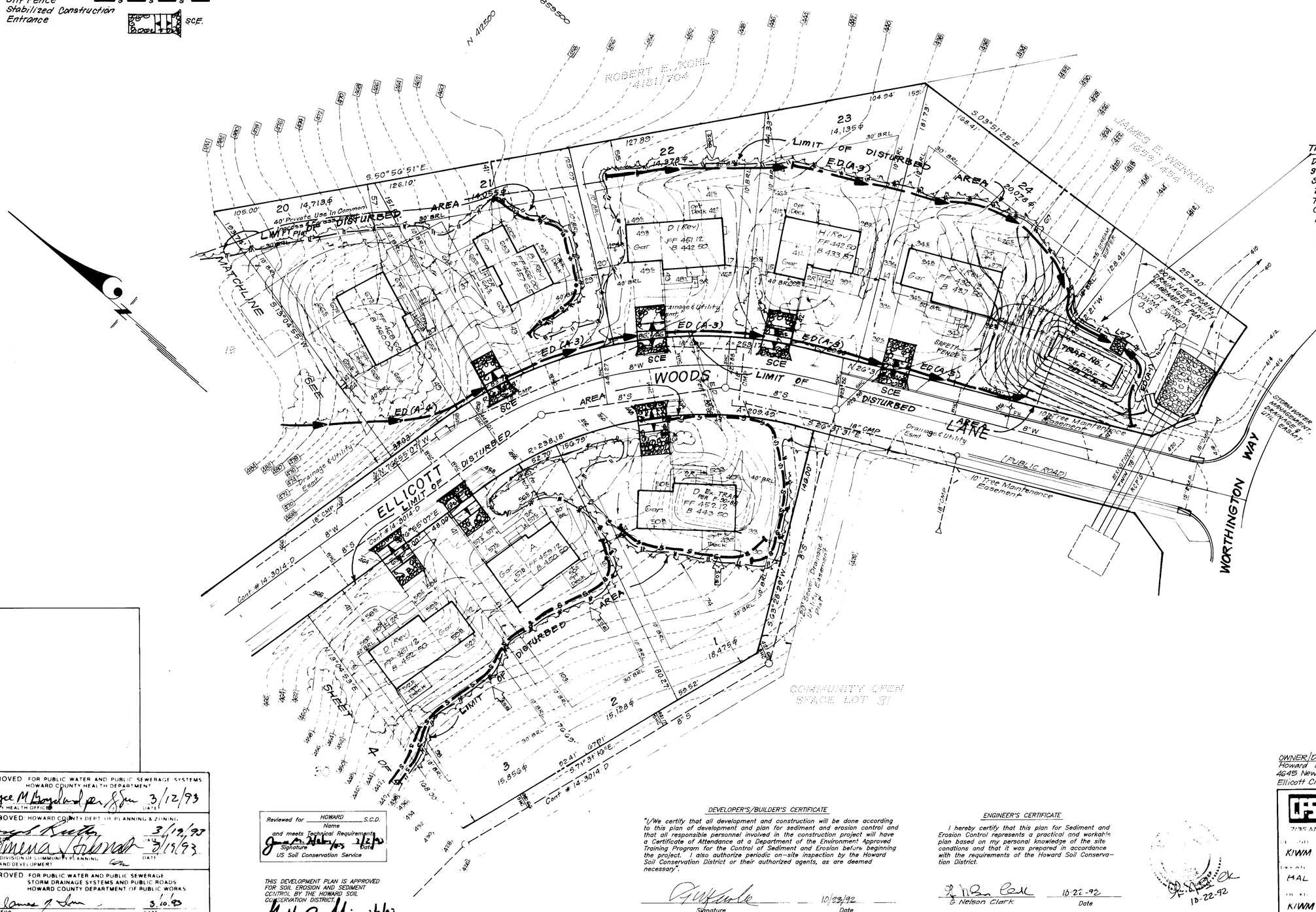
DESIGNED UME	SITE DEVELOPMENT PLAN LOTS 1-3, 5-7, 15-24 & 30
DRAWN BAL	ELLICOTT WOODS
CHECKED UME	SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
DATE Oct 1992	FOR PATRIOT HOMES, INC. 7 TAYLOR AVE. Columbia, Md 21044
SCALE 1" = 30'	
DRAWING 2 OF 5	
JOB NO 92 033	
FILE NO 92 033	

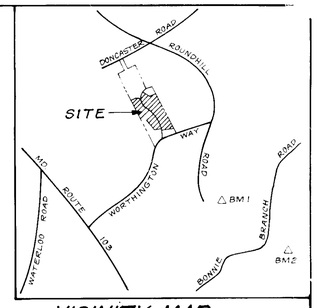
S.D.P. 93-36

LEGEND

Contour Interval 2 Ft
Existing Contour 490
Proposed Contour 490
Spot Elevation +90.2
Direction of Drainage
Existing Trees to Remain

Tree Protection Fence
Earth Dike E.D. (A-1)
Silt Fence
Stabilized Construction Entrance SCE.





VICINITY MAP
Scale 1" = 2000'

TRAP No. 1 S.O.S.T ST-V
D.A. = 1.8 Ac
Storage Req'd = 3240 CF
Storage Provided = 3276 CF
Depth = 3 Ft.
Top of Stone Weir = 414.5
Clean Out Elev. = 412.0
Bottom Elev. = 410.5
Bottom Dimensions = 46'X15'
2:1 Side Slopes
L = 7'

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
Joyce M Boyd and per J. Jun 3/12/93
COUNTY HEALTH OFFICER DATE

APPROVED HOWARD COUNTY DEPT. OF PLANNING & ZONING
Joseph Kutter 3/19/93
DIRECTOR DATE
Emma Hubert 3/19/93
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. Lam 3.10.93
DIRECTOR DATE
William E. Riley 3.10.93
CHIEF BUREAU OF ENGINEERING CD 3/10/93 DATE

Reviewed for HOWARD S.C.D.
Name
and meets Technical Requirements
Signature 3/2/93 Date
US Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Geoff Z. Selling 3/2/93
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".

G.W. Kunkle 10/23/92
Signature Date
/E.W. Kunkle

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.

G. Nelson Clark 10-22-92
G. Nelson Clark Date

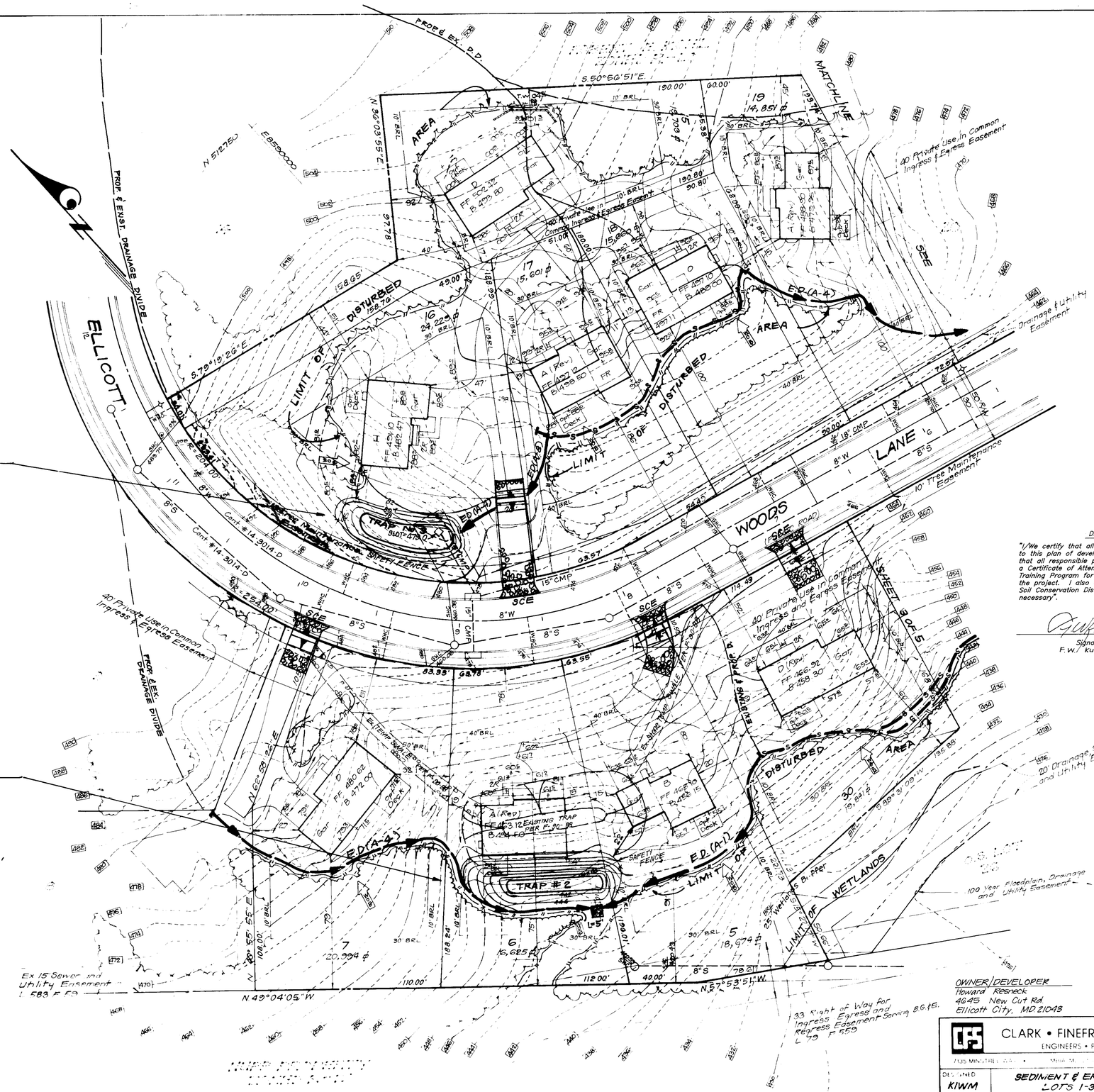
10-22-92

OWNER/DEVELOPER
Howard Resneck
4645 New Cut Rd.
Ellicott City, MD. 21043

CLARK • FINEFROCK & SACKETT INC.
ENGINEERS • PLANNERS • SURVEYORS
7135 Minstrel Way • Columbia, Md 21045 • 410 [illegible]

DESIGNED KIWM	SEDIMENT & EROSION CONTROL PLAN LOTS 1-3, 5-7, 15-24 & 30	SCALE 1" = 30'
DRAWN BAL	ELLICOTT WOODS	DRAWING 3 OF 5
CHECKED KIWM	SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO. 92-033
DATE Oct 1992	FOR PATRIOT HOMES, INC. PO BOX 1018 Columbia, Md 21044	FILE NO. 92-033 SE

SDP 93-36



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".

F.W. Kunkle 10/23/92
Signature Date
F.W. Kunkle

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.

G. Nelson Clark 10-22-92
G. Nelson Clark Date

OWNER/DEVELOPER
Howard Resnick
4045 New Cut Rd
Ellicott City, MD 21043

Reviewed for HOWARD S.C.D.
Name
and meets Technical Requirements
Signature Date
US Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
Approved 3/1/93

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
Joyce M Boyd for S.S. 3/12/93
COUNTY HEALTH OFFICER DATE

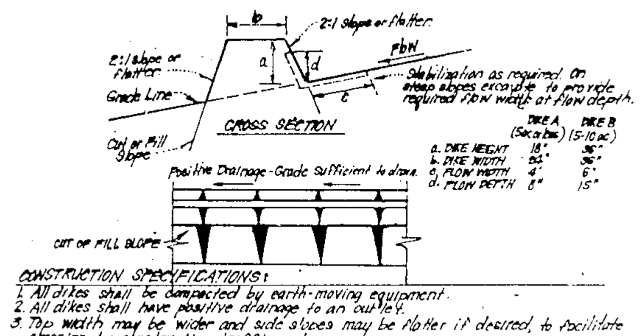
APPROVED HOWARD COUNTY DEPT OF PLANNING & ZONING
DIRECTOR DATE 3/15/93
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE 3/15/93

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR DATE 3-10-93
CHIEF BUREAU OF ENGINEERING DATE 3-10-93

CLARK • FINEFROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS
7135 MINSTREL WAY • MARYLAND • (410)

DESIGNED KIWM	SEDIMENT & EROSION CONTROL PLAN LOTS 1-3, 5-7, 15-24 & 30
DRAWN BAL	ELLICOTT WOODS
CHECKED KIWM	SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
DATE Oct 1992	FOR: DATISCOT HOMES, INC. 10 RAVEN CYR Columbia, Md 21044
SCALE 1" = 30	
DRAWING 4 OF 5	
JOB NO 92 033	
FILE NO 92-033 SE	

SDP 93-36



CONSTRUCTION SPECIFICATIONS:
1. All dikes shall be compacted by earth-moving equipment.
2. All dikes shall have positive drainage to an outlet.
3. Top width may be wider and side slopes may be flatter if desired, to facilitate crossing by construction traffic.
4. Field location should be adjusted as needed to utilize a stabilized safe outlet.
5. 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 dike channel or the drainage area above the dike are not adequately stabilized.
6. Stabilization shall be: (A) In accordance with standard specifications for seed and straw mulch or straw mulch if not in seeding season, (B) Flow channel as per chart below.

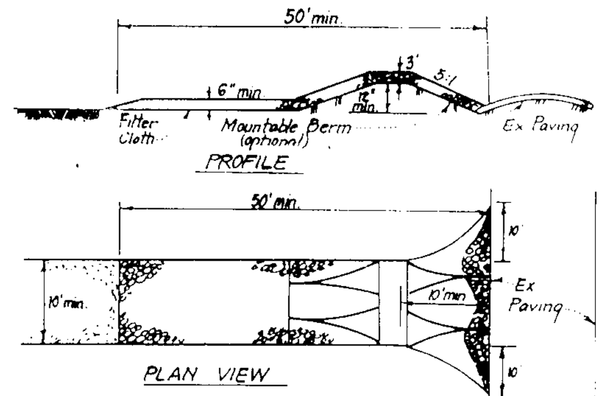
FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1.	0.5-3.0%	Seed & Straw Mulch	Seed or Straw Mulch
2.	3.1-5.0%	Seed & Straw Mulch	Seed w/Jute, or Excelsior; Sod; 2" Stone
3	5.1-8.0%	Seed w/Jute or Sod; 2" Stone	Lined Rip Rap 4"-8" Stone
4	8.1-20.0%	Lined Rip Rap 4-8" Stone	Engineering Design

A. Stone to be 2" Stone, or recycled concrete equivilent, in a layer at least 3" thick and be pressed into soil with construction equipment.
B. Rip Rap to be 4"-8" in a layer at least 8" thick, pressed into 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.

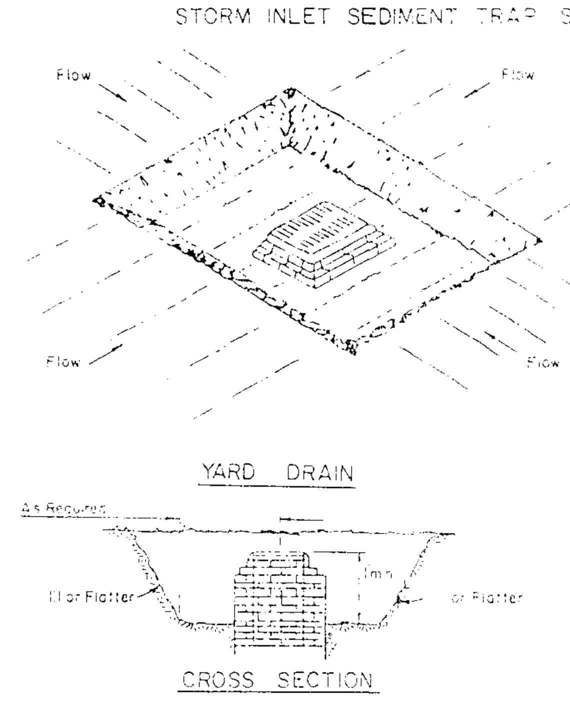
EARTH DIKE DETAIL (E.D.)
NO SCALE



CONSTRUCTION SPECIFICATIONS:
1. Stone size - Use 2" stone, or reclaimed or recycled concrete equivalent.
2. Length - As required, but not less than 50 feet, except on a single residence lot where a 30 foot minimum length would apply.
3. Thickness - Not less than six (6) inches.
4. Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
5. Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
6. Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
7. Maintenance - The entrance shall be maintained in a condition, which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
8. Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
9. Periodic inspection and needed maintenance shall be provided after each rain.

STABILIZED CONSTRUCTION ENTRANCE (SCE)
NO SCALE

STORM INLET SEDIMENT TRAP ST-II



CONSTRUCTION SPECIFICATIONS FOR ST-II

1. Sediment shall be removed and the trap restored to its original dimensions when the sediment has accumulated to ½ the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
2. The volume of sediment storage shall be 1800 cubic feet per acre of contributory drainage.
3. The structure shall be inspected after each rain and repairs made as needed.
4. Construction operations shall be carried out in such a manner that erosion and water pollution shall be minimized.
5. The sediment trap shall be removed and the area stabilized when the constructed drainage area has been properly stabilized.
6. All cut slopes shall be 1:1 or flatter.

Maximum Drainage Area: 3 Acres

PERMANENT SEEDING NOTES

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

SEEDBED PREPARATION: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened.

SOIL AMENDMENTS: In lieu of **soil test recommendations, use one of the following schedules:**
1) **Preferred- Apply 2 tons per acre dolomitic limestone (92 lbs/100 sqft.)** 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 the time of seeding, apply 400 lbs. per acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq.ft.)

2) Acceptable- Apply 2 tons per acre dolomatic limestone (92 lbs/1000 sg ft.) and 1000 lbs. per acre 10-10-10- fertilizer (23 lbs./1000 sg 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 60lbs 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 (.05 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 sod. 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 unrotted 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 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, repalcements and reseedings.

TEMPORARY SEEDING NOTES

SEEDBED PREPARARTION: 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 (14lbs/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 rye (3.2 lbs./1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (.07 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 sod.

MULCHING: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted 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 emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq ft) for anchoring.

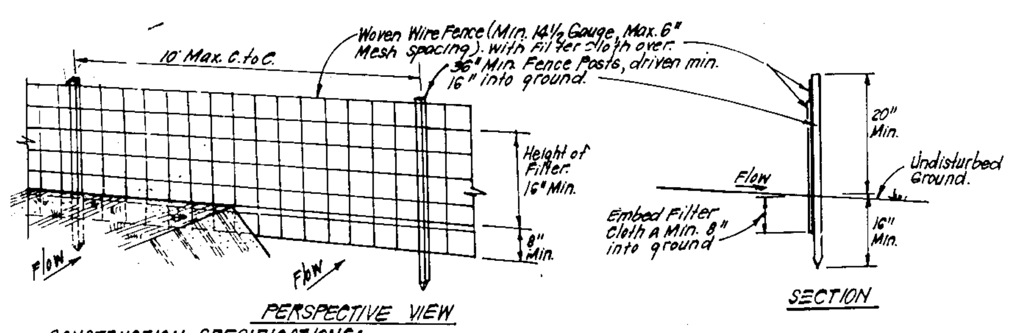
REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

SEDIMENT AND EROSION CONTROL NOTES

1. A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (992-2437).
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 1983 MARYLAND STANDARDS AND SPECS. FOR SOIL EROSION AND SEDIMENT CONTROL.
3. Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control stuctures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.
4. 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.
5. 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) sod (Sec.54), temporary seeding (Sec.50) and mulching (Sec 52). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
6. All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
7. SITE ANALYSIS:
   - Total Area of Site: 6.96 Ac.
   - Area Disturbed: 4.17 Ac.
   - Area to be roofed or paved: 1.51 Ac.
   - Area to be vegetatively stabilized: 2.66 Ac.
   - Total Cut: 4760 CF
   - Total Fill: 12,795 CF
   - Offsite 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. Additional sediment control must be provided, if deemed necessary by the Howard County DPW Sediment Control Inspector.
10. On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
11. If houses are to be constructed on an "as sold" basis, at random, Single Family Sediment Control, as shown below shall be implemented.

12. The total amount of silt fence= 950 LF

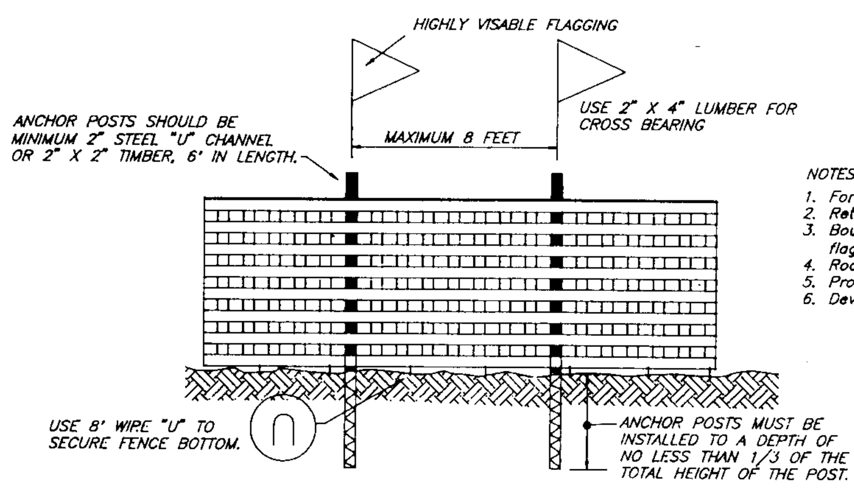
* It is the responsibility of the contractor to identify the spoil/borrow site and notify and gain approval from the sediment control inspector of the site and it's grading permit number at the time of construction.



CONSTRUCTION SPECIFICATIONS:
1. Woven wire fence to be fastened securely to fence posts with wire ties or staples.
2. Filter Cloth to be fastened securely to woven wire fence with ties spaced every 24" at top and mid section.
3. When 2 sections of filter cloth adjoin each other they shall be overlapped by 6" and folded.
4. Maintenance shall be performed as needed and material removed when "Bulges" develop in Silt Fence.

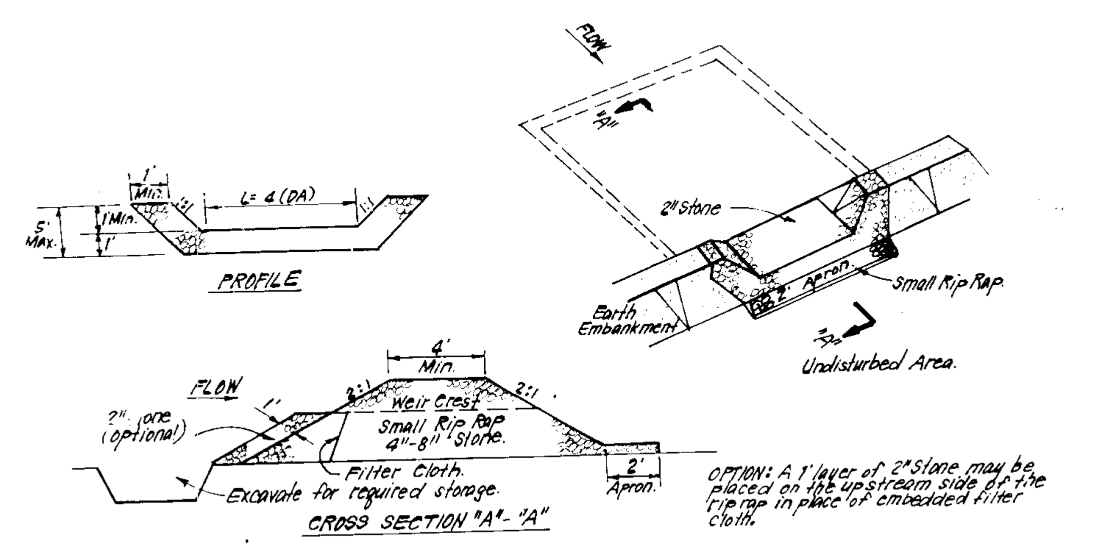
POSTS: Steel either T or U Type or 2" Hardwood.
FENCE: Woven Wire, 14½ Gage 6" Max. Mesh Opening.
FILTER CLOTH: FilterX, Mirafi 100X, Stablinka, T140N or Approv. equal.
PREFABRICATED UNIT: Geofab, Envirofence, or Approv. equal.

SILT FENCE DETAIL (S)
NO SCALE



NOTES:
1. Forest protection device only.
2. Retention area will be set as part of the review process.
3. Boundaries of retention area should be staked and flagged prior to installing device.
4. Root damage should be avoided.
5. Protection signage may also be used.
6. Device should be maintained throughout construction.

BLAZE ORANGE PLASTIC MESH TYPICAL TREE PROTECTION FENCE DETAIL
NO SCALE



OPTION: A 1' layer of 2" Stone may be placed on the upstream side of the rip rap in place of embedded filter cloth.

CONSTRUCTION SPECIFICATIONS:
1. Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
2. 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 compacted by traversing with equipment while it is being constructed.
3. All cut and fill slopes shall be 2:1 or flatter.
4. The stone used in the outlet shall be small rip-rap 4"-8" along with 1' thickness of 2" aggregate placed on the up-grade side on the small rip rap or embedded filter cloth in the rip rap.
5. Sediment shall be removed and trap restored to its orginal dimensions when the sediment has accumulated to ½ the design depth of the trap.
6. The structure shall be inspected after each rain and repairs made as needed.
7. Construction operations shall be carried out in such a manner than erosion and water pollution is minimized.
8. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

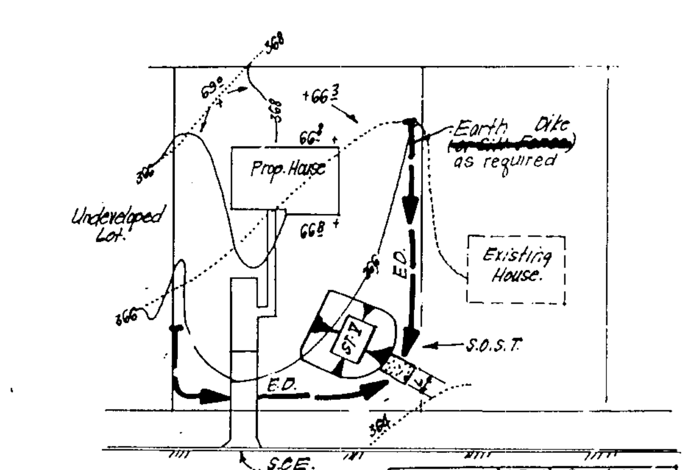
STONE OUTLET SEDIMENT TRAP (S.O.S.T.) ST-V
NO SCALE

CONSTRUCTION SEQUENCE

	No. of Days
A. Obtain grading permit	7
B. Install tree protection fence	7
+ C. Install Sediment and Erosion Control Devices and Stabilize	7
D. Excavate for for foundations and rough grade & temporarily stabilize	30
* E. Construct Structures, sidewalks and driveways	60
F. Final grade and stabilize	14
G. Upon approval of the sediment control inspector, remove sediment and erosion controls and stabilize.	7

* Temporarily delay construction on lots 6, 16 and 24 until area draining to the lots has been permanently stabilized.

+ The builder/owner/developer is responsible for cleaning the SWM Facility of any Sediments caused by the construction & grading proposed on these plans. The stormwater management pond is to refurbished to it's original dimensions.



*S.O.S.T. (ST-V) Pg. 16.12			
LOT SIZE	1/4 Ac	1/2 Ac	1 Ac.
L	2'	3'	6'
Depth	2'	2'	2'
+ Bot. Length	11'	26'	26'
+ Bot. Width	11'	11'	26'
Bot Area.	121#	286#	676#

+ can be adjusted in field, but bottom area must be as given or greater

* NOTE: Single lot detail can not be utilized if any two lots sharing common property lines are to be disturbed at the same time or on any lots showing a sediment trap.

SINGLE LOT SEDIMENT CONTROL PLAN
NO SCALE

Reviewed for HOWARD S.C.D.
Name
and meets Technical Requirements
Signature 3/2/93 Date
US Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
Approved 3/2/93

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".

Signature F.W. Kunkle — 10/23/92 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 condtions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

G. Nelson Clark — 10-22-92 Date

STATE OF MARYLAND — G. NELSON CLARK — NO. 7133 — REGISTERED PROFESSIONAL ENGINEER — 10-22-92

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 3/12/93

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
DIRECTOR — DATE 3/19/93
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 3/19/93

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 3/10/93
CHIEF BUREAU OF ENGINEERING — DATE 3-10-93

166888

OWNER/DEVELOPER
Howard Resneck
4645 New Cut Rd.
Ellicott City, MD. 21043

CLARK • FINEFROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS
7135 MINSTREL WAY • COLUMBIA, MD 21045 • (410) 381-7500 – BALTO • (301) 621-8100 – WASH

DESIGNED KIWM	SEDIMENT & EROSION CONTROL DETAIL SHEET LOTS 1-3, 5-7, 15-24 & 30	SCALE As Shown
DRAWN BAL	ELLICOTT WOODS	DRAWING 5 OF 5
CHECKED KIWM	SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO. 92·033
DATE Oct 1992	FOR: PATRIOT HOMES, INC. PO BOX 1018 Columbia, Md. 21044	FILE NO 92·033 SE

SDP 93-36