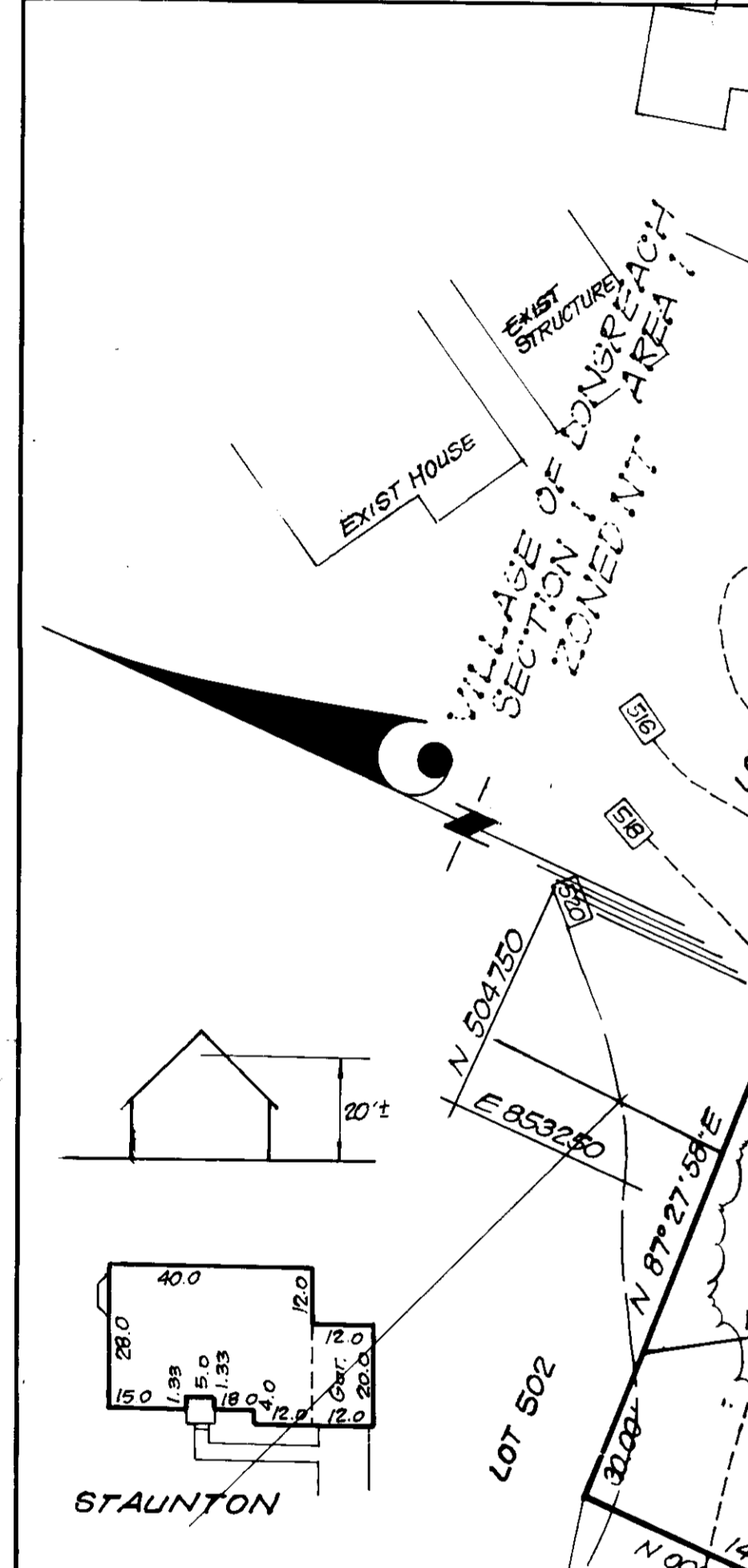


LEGEND

- Contour Interval 2 Ft
- Existing Contour
- Proposed Contour
- Spot Elevation
- Direction of Drainage
- Existing Trees to be saved
- Created 25% or greater steep slopes

ADDRESS CHART

LOT NO	STREET ADDRESS
9	5690 Roundtree Lane
10	5694 " "
11	5698 " "
12	5600 Foxcroft Way
13	5604 " "
14	5617 " "
15	5619 " "
16	5629 " "
17	5605 " "
18	5601 " "
19	5631 Roundtree Lane
20	5627 " "
21	5625 " "
22	5623 " "
23	5626 " "
24	5620 " "
25	5653 " "
26	5679 " "
27	5675 " "
28	5641 " "
29	5637 " "



NO	REVISION	DATE
14	Rev. hse. f. grad. lot 36	10/2/91
13	Rev. hse. f. grad. lot 32, Add hse. typical	8/4/91
12	Rev. hse. f. grad. lot 16	3-30-91
11	Rev. hse. f. grad. f. BRL's lot 16	3-11-91
10	Rev. hse. f. grad. lot 18, Add hse. typical	2-2-91
9	Rev. hse. f. grad. lot 12	8-13-90
8	Rev. hse. f. grad. lot 38	5-14-90
A	Rev. hse. f. grad. lot 9	4/15/92

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER *[Signature]* 8/19/91
 DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING
[Signature] 8/27/91
 DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR *[Signature]* 8/12/91
 DATE

CHIEF BUREAU OF ENGINEERING *[Signature]* 8-9-91
 DATE

NO	REVISION	DATE
1	Rev. hse. f. grad. lot 33	5-12-92
2	Rev. hse. f. grad. lot 38	6-18-92
3	Rev. hse. f. grad. lots 33 & 38	9-18-92
4	Rev. hse. f. grad. lot 10	11-20-92
5	Rev. hse. f. grad. lot 32	12-8-92
6	Rev. hse. f. grad. lot 33	1-19-93
7	Rev. hse. f. grad. lot 37	4-2-93

GENERAL NOTES

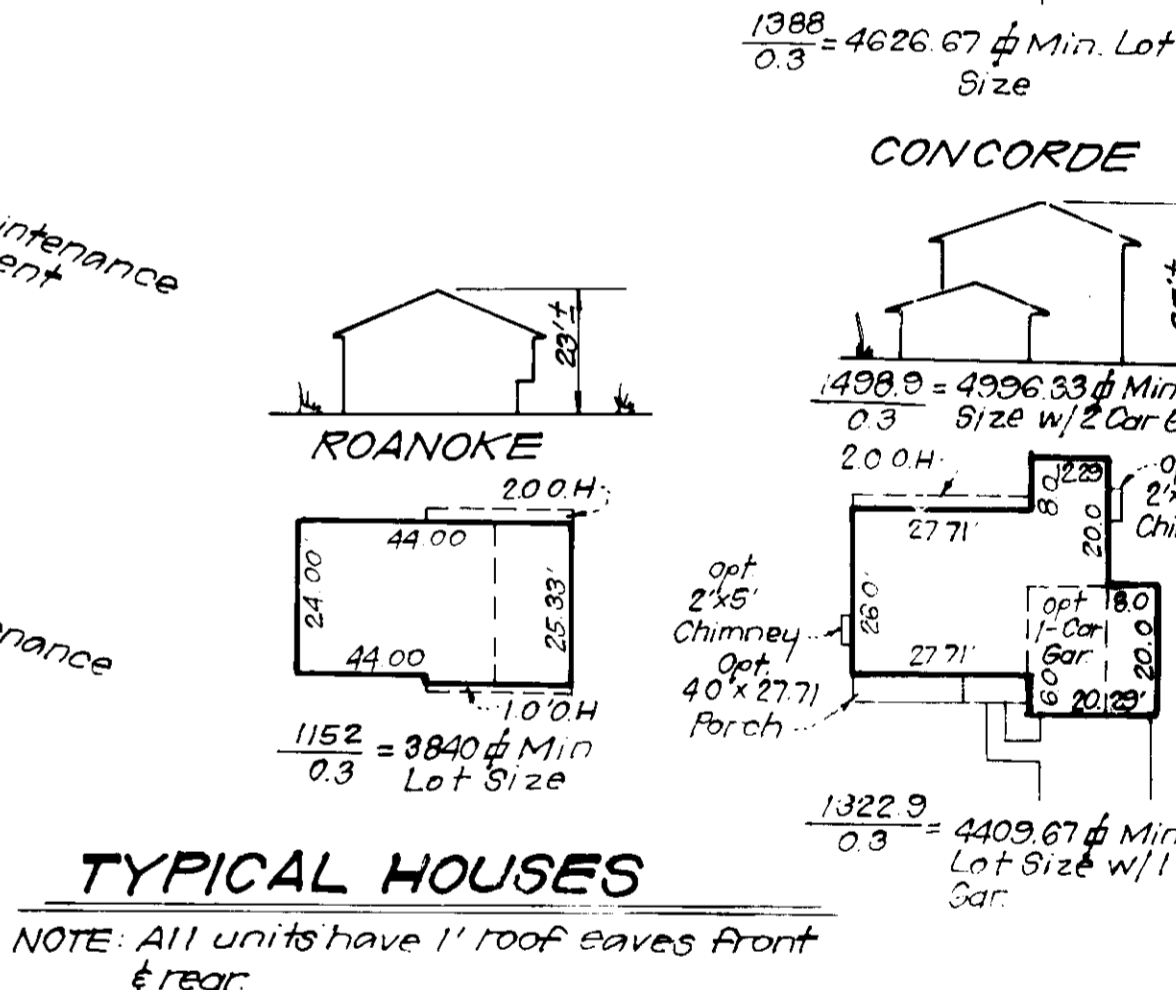
- Subject property zoned R-12 as per 8-2-85 Comprehensive Zoning Plan
- The coordinates shown hereon are extensions made from Maryland State Plane Coordinate System Bearings refer to true North and are based on Howard County Control Points.
- All roadways are public and existing.
- Total area included in this submission: 524026.8 sq ft or 12.03 Ac
- Total number of lots: 36
- Any damage to County owned right-of-ways shall be corrected at the Developer's expense.
- Maximum lot coverage is 30%
- Reference plans S-87-65, P-88-73 and F-89-76, W.P. 89-178, F-89-124
- The Contractor or Developer shall contact the Construction/Inspection Survey Division, 24 hours in advance of commencement of work at 792-2630
- The existing topography shown was field run by Clark, Finefrock & Sackett, Inc. on May 5, 1991.
- There is a 10' Tree Maintenance Easement along all road frontages
- One car garages on lots 9, 11, 40 and 51 shall be used for parking purposes only in accordance with Section 127.8.2 b(1)(b) of the Zoning Regulations.
- The chimney in encroachments for lots 20, 38 and 39 are in accordance with Section 128 of the Zoning Regulations.

SPECIAL NOTE

Improvements shown within the rights-of-way on this SDP are not to be used for construction. For construction see approved road construction plans 89-76 and 89-77 approved Water and Sewer plans Contract No. 24-1898-D & 24-1822-D.

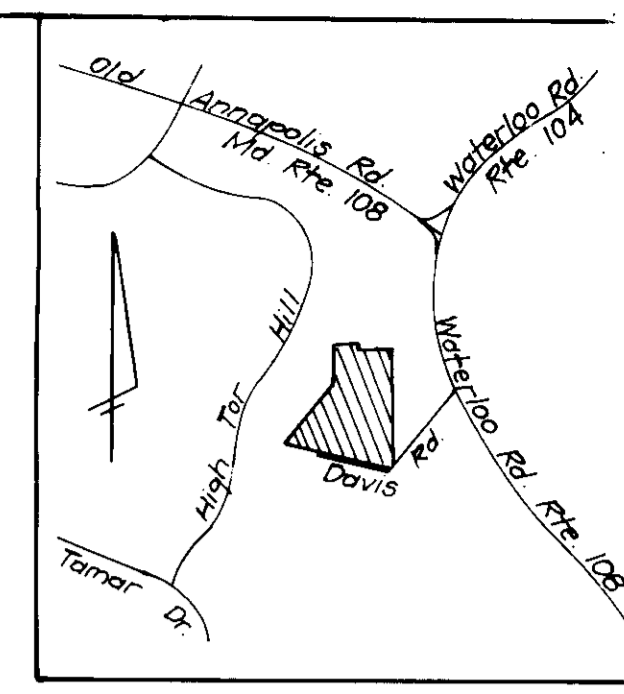
NOTE

- The Wetland/Stream buffer indicated on this plan does not affect initial construction of a residential unit on any lot. It does prohibit subsequent clearing, grading or construction in the buffer area. Maintenance of residences, landscaping and utilities is permitted.
- Stormwater Management provided for under F-89-76 (Section One Area One) F-89-124 (Section One Area 2)
- For driveway entrance details refer to Howard County Design Manual Volume III 3rd ed. details R-6.01, R-6.03 & R-6.05
- W.P. 89-178 granted approval on July 24, 1989 for a 25-foot wetland buffer within the 25-foot wetland buffer section 16.118 (a)(6) of the Subdivision Regulations.



TYPICAL HOUSES

NOTE: All units have 1' roof eaves front & rear.



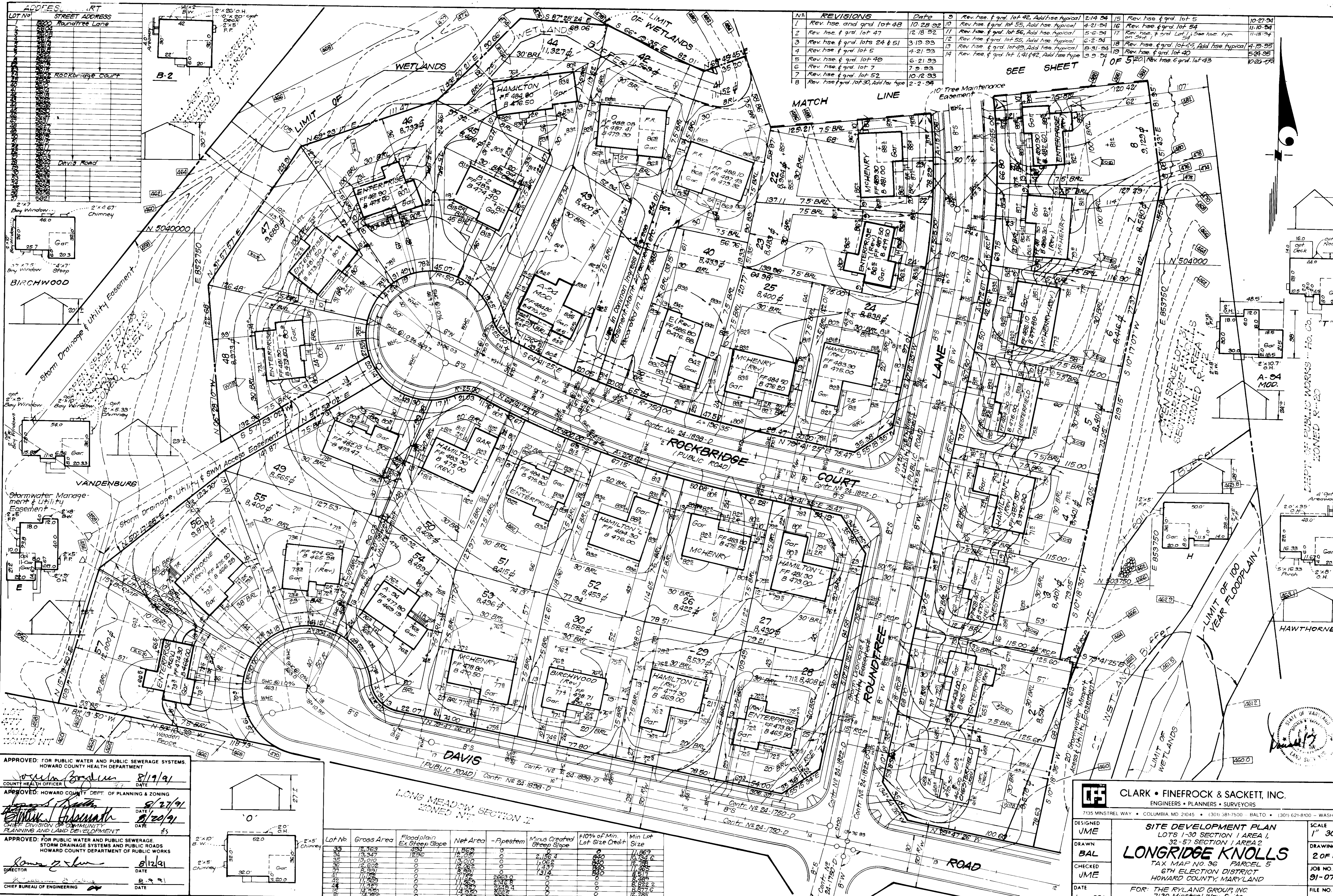
VICINITY MAP
Scale: 1" = 2000'

Subdivision Name	LONGRIDGE KNOLLS	Sheet / Area	1/1, 1/2	Lots	1 thru 36
Plot No.	36	Zone	R-12	File Map No.	6-74
Block No.	36	Water Code	6-07	File No.	91-070X
Water Code	6-07	Sewer Code	5335700		

CLARK • FINEFROCK & SACKETT, INC.
 ENGINEERS • PLANNERS • SURVEYORS
 1715 MINISTREE WAY • COLUMBIA, MD 21045 • (410) 871-7500 • BALTIMORE • (410) 528-1000 • WASH DC

DESIGNED	JME	SITE DEVELOPMENT PLAN LOTS 1-30 SECTION 1 AREA 1, 32-57 SECTION 1 AREA 2 LONGRIDGE KNOLLS TAX MAP NO. 36 PARCEL 5 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE	1" = 30'
DRAWN	94L		DRAWING	10F 5
CHECKED	JME		JOB NO.	91-070
DATE	JUNE 1991		FILE NO.	91-070X

FOR THE RYLAND GROUP INC
 7130 MINISTREE WAY
 Columbia, Maryland 21045



NO.	REVISIONS	Date
1	Rev. hse. and grd. lot 48	10-28-92
2	Rev. hse. & grd. lot 47	12-18-92
3	Rev. hse. & grd. lots 24 & 51	3-19-93
4	Rev. hse. & grd. lot 5	4-21-93
5	Rev. hse. & grd. lot 40	6-21-93
6	Rev. hse. & grd. lot 7	7-9-93
7	Rev. hse. & grd. lot 52	10-12-93
8	Rev. hse. & grd. lot 30, Add hse. type	2-2-94

ADDRESS	RT	LOT No	STREET ADDRESS
Roundtree Lane			
Rockbridge Court			
Davis Road			
Birchwood			
Vandenburg			
Hawthorne			

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

Wanda Z. Sullivan 8/19/91
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

Wanda Z. Sullivan 8/27/91
DATE

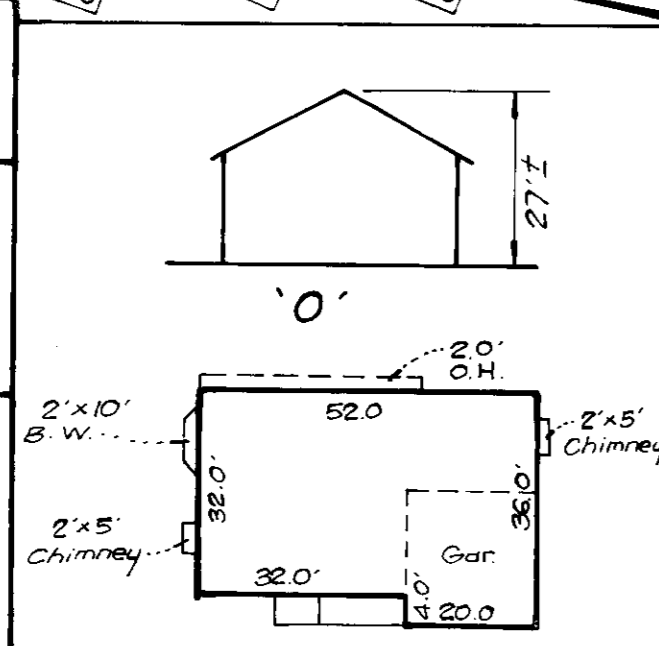
Wanda Z. Sullivan 8/20/91
DATE

CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

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

Wanda Z. Sullivan 8/12/91
DIRECTOR DATE

CHIEF BUREAU OF ENGINEERING DATE



Lot No	Gross Area	Floodplain Ex Steep Slope	Net Area	-Pipestem	Minus Created Steep Slope	+10% of Min. Lot Size Credit	Min Lot Size
24	13,363	294	13,069	0	2,156.4	830	10,912.6
25	13,010	1236	11,774	0	1,937	830	10,944
26	13,010	1236	11,774	0	1,937	830	10,944
27	13,010	1236	11,774	0	1,937	830	10,944
28	13,010	1236	11,774	0	1,937	830	10,944
29	13,010	1236	11,774	0	1,937	830	10,944
30	13,010	1236	11,774	0	1,937	830	10,944
31	13,010	1236	11,774	0	1,937	830	10,944
32	13,010	1236	11,774	0	1,937	830	10,944
33	13,010	1236	11,774	0	1,937	830	10,944
34	13,010	1236	11,774	0	1,937	830	10,944
35	13,010	1236	11,774	0	1,937	830	10,944
36	13,010	1236	11,774	0	1,937	830	10,944
37	13,010	1236	11,774	0	1,937	830	10,944
38	13,010	1236	11,774	0	1,937	830	10,944
39	13,010	1236	11,774	0	1,937	830	10,944
40	13,010	1236	11,774	0	1,937	830	10,944
41	13,010	1236	11,774	0	1,937	830	10,944
42	13,010	1236	11,774	0	1,937	830	10,944
43	13,010	1236	11,774	0	1,937	830	10,944
44	13,010	1236	11,774	0	1,937	830	10,944
45	13,010	1236	11,774	0	1,937	830	10,944
46	13,010	1236	11,774	0	1,937	830	10,944
47	13,010	1236	11,774	0	1,937	830	10,944
48	13,010	1236	11,774	0	1,937	830	10,944
49	13,010	1236	11,774	0	1,937	830	10,944
50	13,010	1236	11,774	0	1,937	830	10,944
51	13,010	1236	11,774	0	1,937	830	10,944
52	13,010	1236	11,774	0	1,937	830	10,944
53	13,010	1236	11,774	0	1,937	830	10,944
54	13,010	1236	11,774	0	1,937	830	10,944
55	13,010	1236	11,774	0	1,937	830	10,944
56	13,010	1236	11,774	0	1,937	830	10,944
57	13,010	1236	11,774	0	1,937	830	10,944

CLARK • FINEROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS

7135 MINSTREL WAY • COLUMBIA, MD 21045 • (301) 581-7500 • BALTO • (301) 621-8100 • WASH

DESIGNED: JME
DRAWN: BAL
CHECKED: JME
DATE: June 1991

SITE DEVELOPMENT PLAN
LOTS 1-30 SECTION 1 AREA 1,
32-57 SECTION 1 AREA 2
LONGMEADOW KNOLLS
TAX MAP NO. 36 PARCEL 5
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

FOR: THE RYLAND GROUP, INC.
7130 Minstrel Way Suite
Columbia, Md. 21045

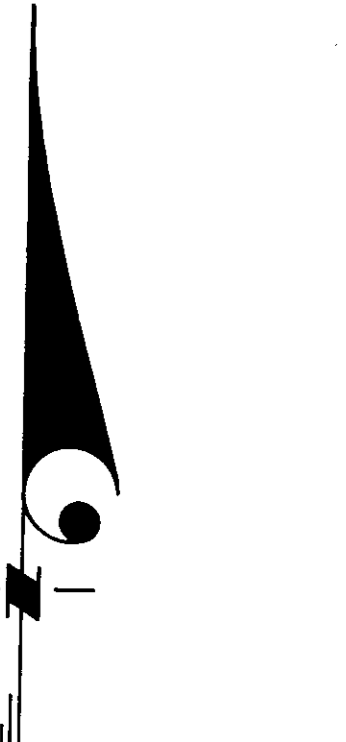
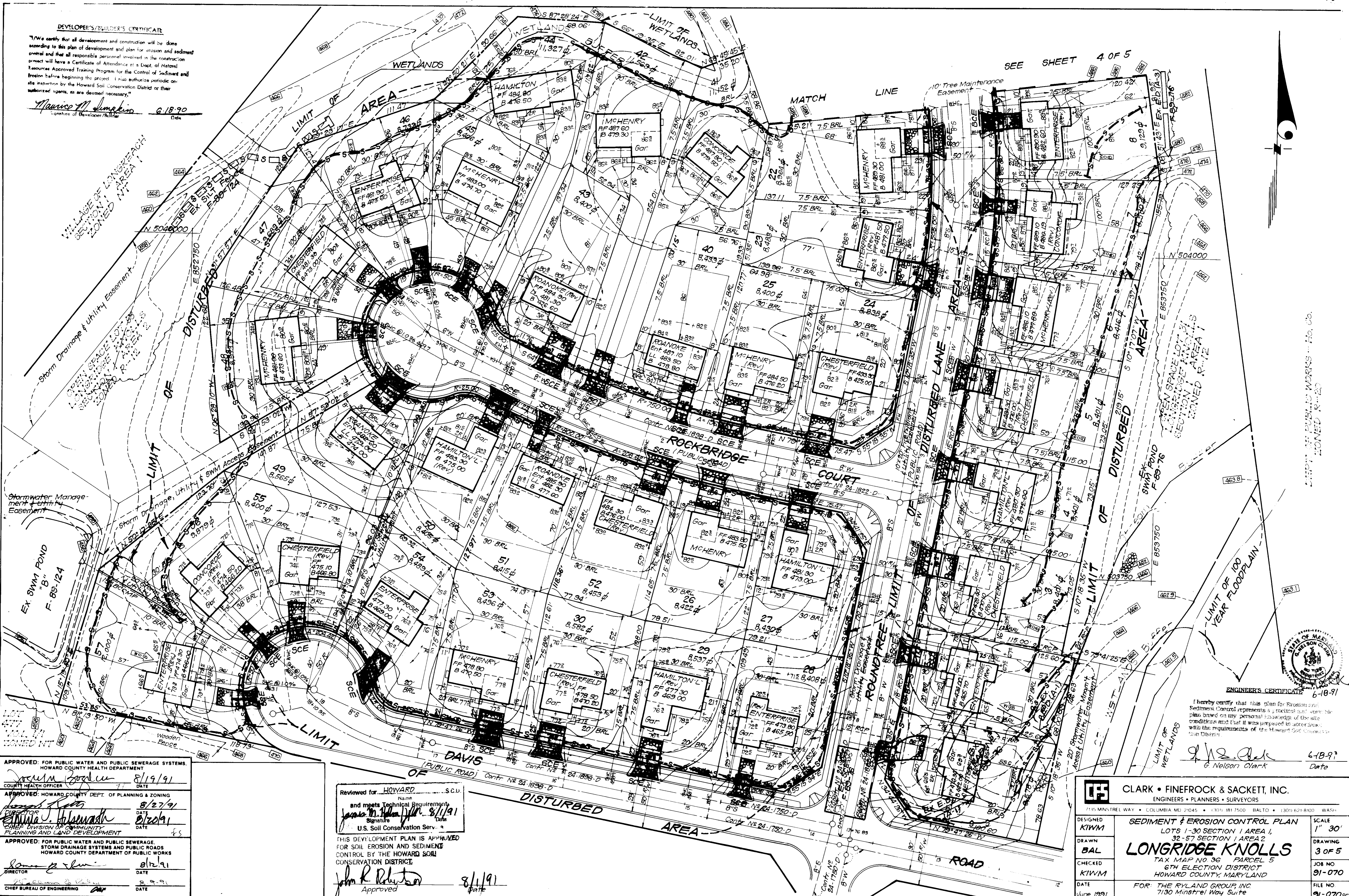
SCALE: 1" = 30'
DRAWING: 2 OF 5
JOB NO.: 91-070
FILE NO.: 91-070-X

SD.P-91-124

DEVELOPER'S CERTIFICATE

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

Maureen M. Amadio 6-18-90
Signature of Developer/Builder Date



SHEET OF PUBLIC WORKS - No. 00
ZONED R-12C



ENGINEER'S CERTIFICATE 6-18-91

I hereby 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.

G. Nelson Clark 6-18-91
Signature Date

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT
William G. Gorman 8/19/91
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
Christina J. Tolson 8/2/91
DIRECTOR DATE
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Samuel J. ... 8/12/91
DIRECTOR DATE
CHIEF BUREAU OF ENGINEERING

Reviewed for **HOWARD** S.C.D.
Name
and meets Technical Requirements
James M. ... 8/1/91
Signature Date
U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
John R. ... 8/1/91
Approved Date

CLARK • FINEROCK & SACKETT, INC. ENGINEERS • PLANNERS • SURVEYORS 7115 MINISTREL WAY • COLUMBIA, MD 21045 • (410) 881-7500 • BALTO • (301) 621-8100 • WASH.		DESIGNED KIWM	SEDIMENT & EROSION CONTROL PLAN LOTS 1-30 SECTION 1 AREA 1, 32-57 SECTION 1 AREA 2 LONGRIDGE KNOLLS TAX MAP NO. 96 PARCEL 5 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: THE RYLAND GROUP, INC. 7130 Ministrel Way, Suite Columbia, Md. 21045	SCALE 1" = 30'
		DRAWN BAL		DRAWING 3 OF 5
CHECKED KIWM	DATE June 1991	JOB NO. 91-070	FILE NO. 91-070	

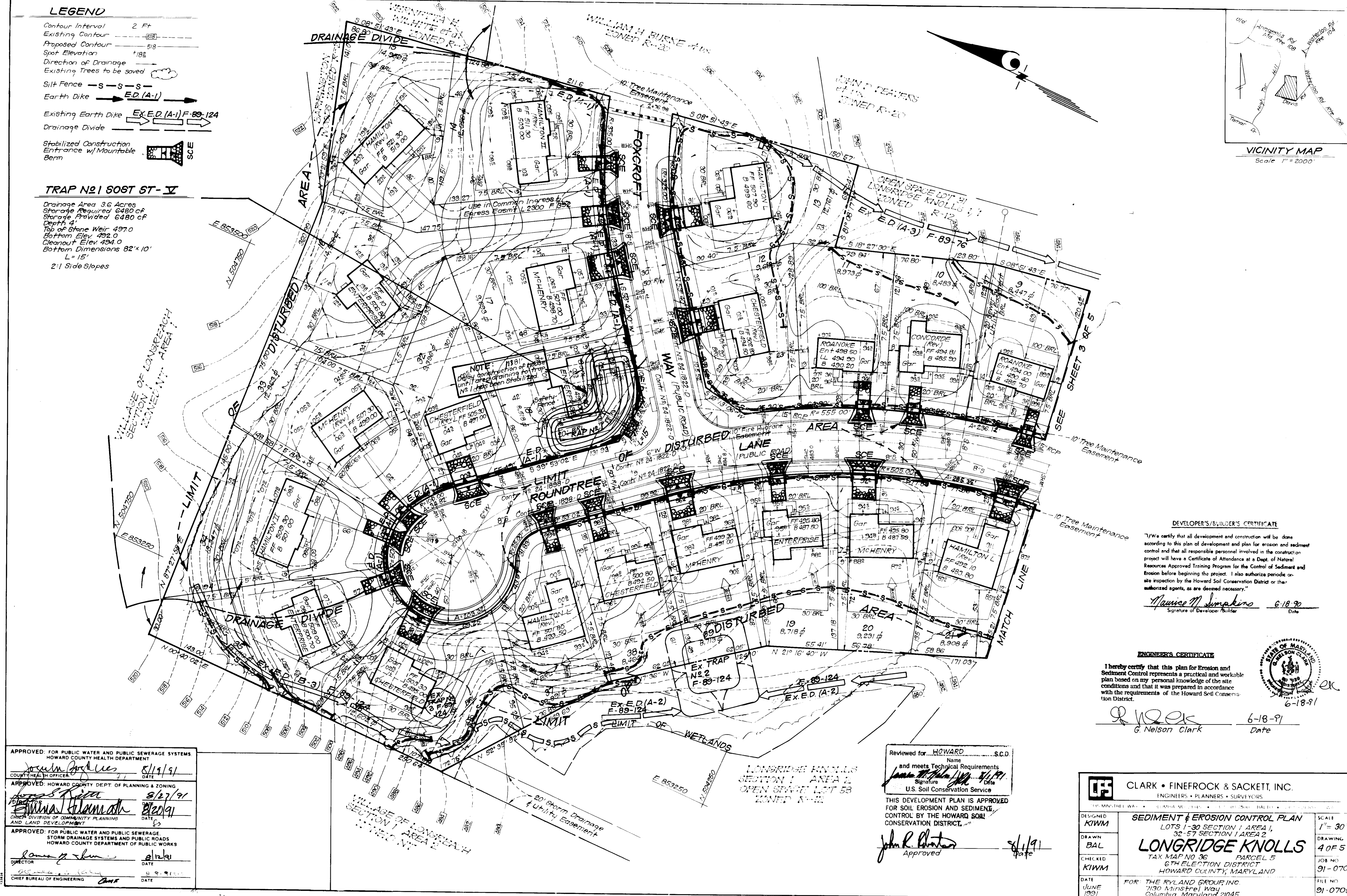
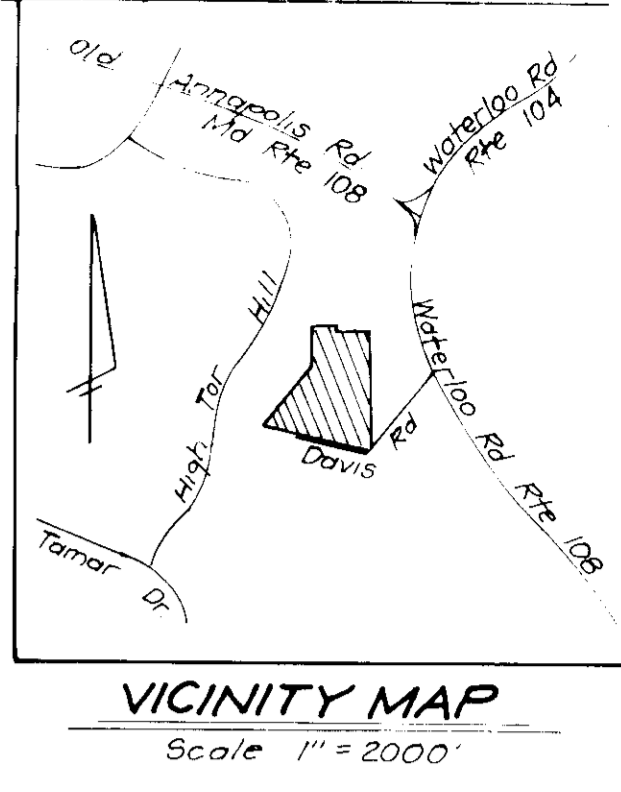
SDP-91-124

LEGEND

- Contour Interval 2 Ft
- Existing Contour
- Proposed Contour
- Spot Elevation
- Direction of Drainage
- Existing Trees to be saved
- Silt Fence
- Earth Dike
- Existing Earth Dike
- Drainage Divide
- Stabilized Construction Entrance w/ Mountable Berm

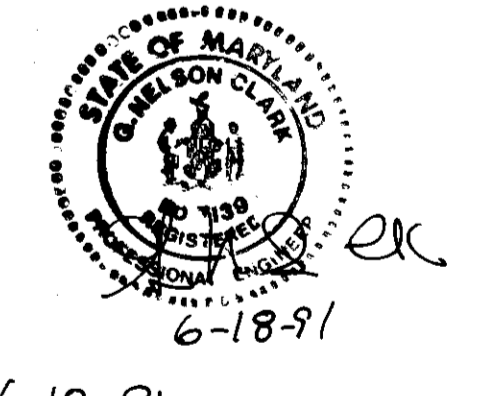
TRAP N21 SOST ST-IV

Drainage Area 3.6 Acres
 Storage Required 6480 cf
 Storage Provided 6480 cf
 Depth 4'
 Top of Stone Weir 497.0
 Bottom Elev 492.0
 Cleanout Elev 494.0
 Bottom Dimensions 82'x10'
 L=15'
 2:1 Side Slopes



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 erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. of Natural Resources 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.
Naivice M. Simakino 6-18-90
 Signature of Developer/Builder Date

ENGINEER'S CERTIFICATE
 I hereby 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.
G. Nelson Clark 6-18-91
 Date



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
John M. Goches 8/19/91
 COUNTY HEALTH OFFICER DATE

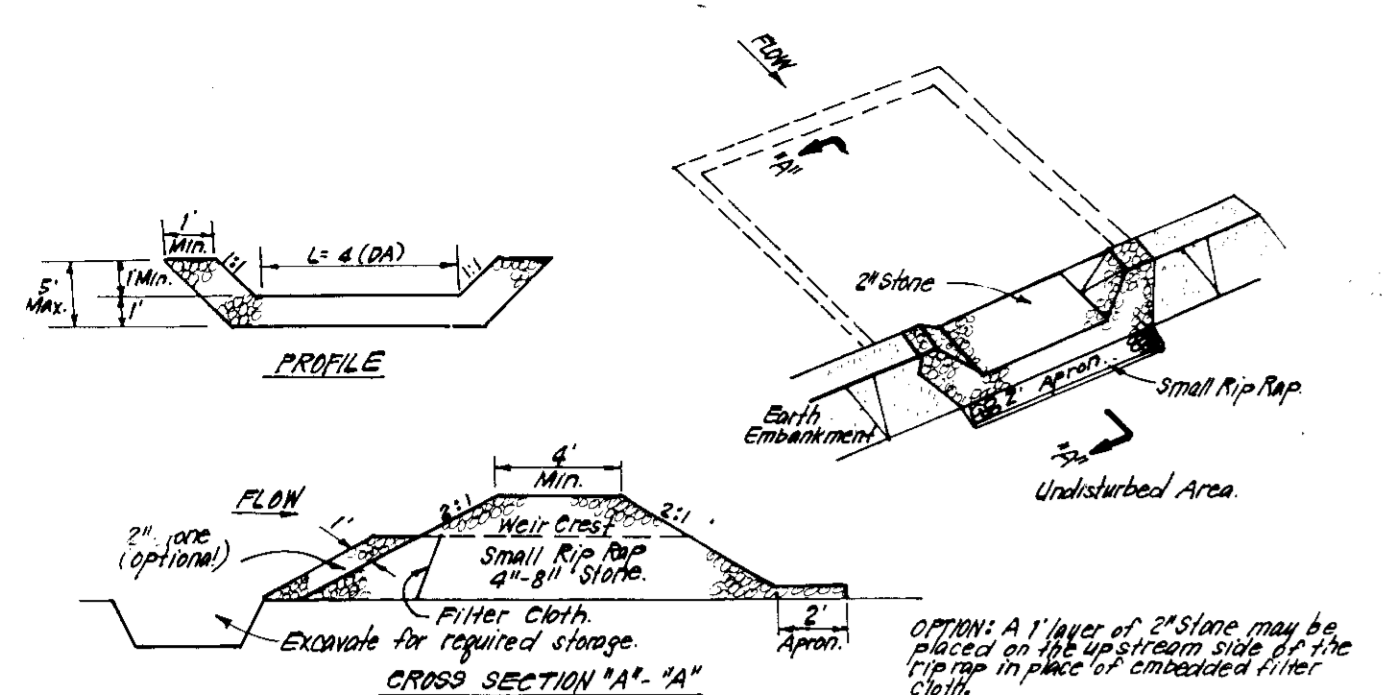
APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
John R. Clark 8/27/91
 COUNTY PLANNING & ZONING OFFICER DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
John R. Clark 8/12/91
 DIRECTOR DATE

APPROVED: CHIEF BUREAU OF ENGINEERING
John R. Clark 8/9/91
 DATE

Reviewed for... HOWARD COUNTY... S.C.D.
 Name: *John R. Clark*
 Signature: *John R. Clark* 8/19/91
 Date: 8/19/91
 U.S. Soil Conservation Service
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
John R. Clark 8/19/91
 Approved Date

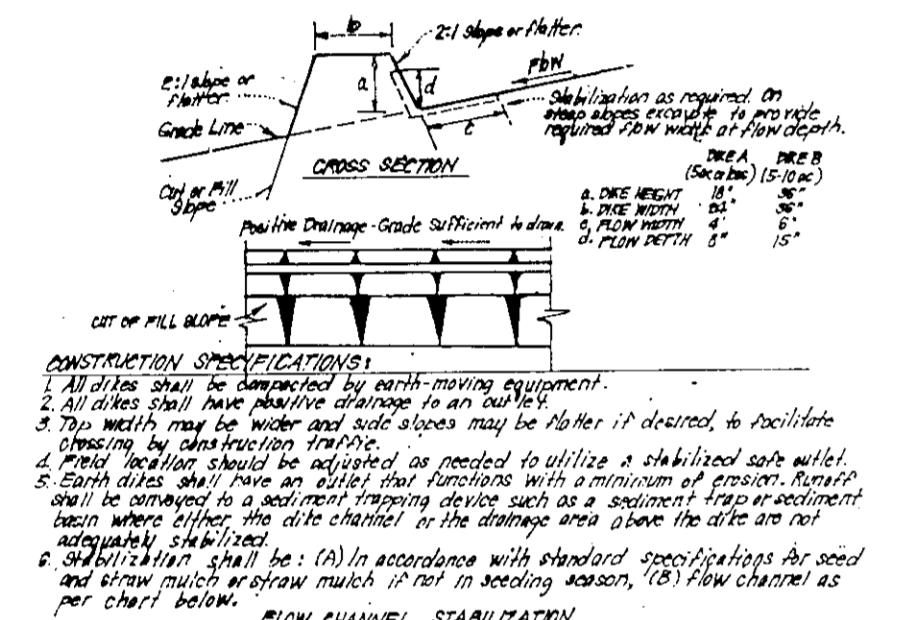
CLARK • FINEFROCK & SACKETT, INC. ENGINEERS • PLANNERS • SURVEYORS		
DESIGNED KIWM	SEDIMENT & EROSION CONTROL PLAN LOTS 1-30 SECTION 1, AREA 1, 32-57 SECTION 1, AREA 2 LONGRIDGE KNOLLS TAX MAP NO. 36 PARCEL 5 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE 1"= 30'
DRAWN BAL		DRAWING 4 OF 5
CHECKED KIWM		JOB NO. 91-070
DATE JUNE 1991	FOR: THE RYLAND GROUP INC. 7130 Minstrel Way Columbia, Maryland 21045	FILE NO. 91-070SE



CONSTRUCTION SPECIFICATIONS:

1. Rip rap under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The rip rap shall be compacted.
2. The filter material for the embankment shall be free of roots and other woody vegetation as well as over-lying stones, rocks, organic material or other objectionable material. The embankment shall be compacted by tamping with vibratory plate or other approved equipment.
3. The stone used in the outlet shall be small rip rap 1/2" to 2" in diameter.
4. The stone used in the outlet shall be small rip rap 1/2" to 2" in diameter with 1" thickness of 2" aggregate placed on the upstream side of the small rip rap or erodible filter cloth in the rip rap.
5. Sediment shall be trapped and trapped in its original dimensions when the sediment has accumulated to 10% 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 that erosion and water pollution is minimized.
8. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

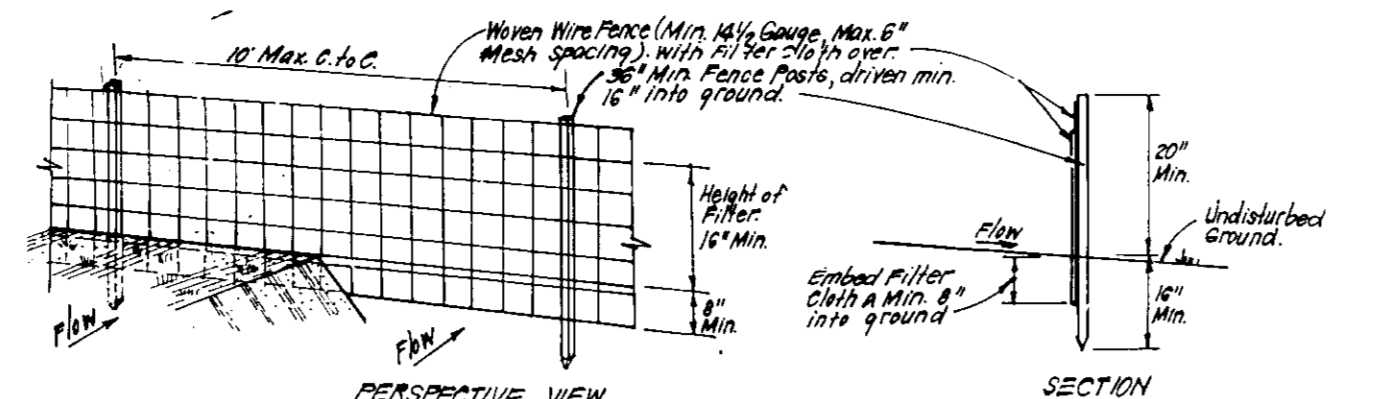
STONE OUTLET SEDIMENT TRAP (S.O.ST.) STY.
NO SCALE



CONSTRUCTION SPECIFICATIONS:

1. All dikes shall be constructed by earth-moving equipment.
2. All dikes shall have adequate drainage in an outlet.
3. The width may be wider and side slopes may be steeper if desirable to facilitate crossing by construction traffic.
4. Earth dikes shall have an outlet that functions with a minimum of erosion. Repair shall be performed to a sediment trapping device such as a sediment trap or sediment basin where erosion, the dike channel or the drainage area above the dike are not adequately stabilized.
5. Stabilization shall be: (a) in accordance with standard specifications for seed and straw mulch or straw mulch (prior to seeding season), (b) flow channel as per chart below.

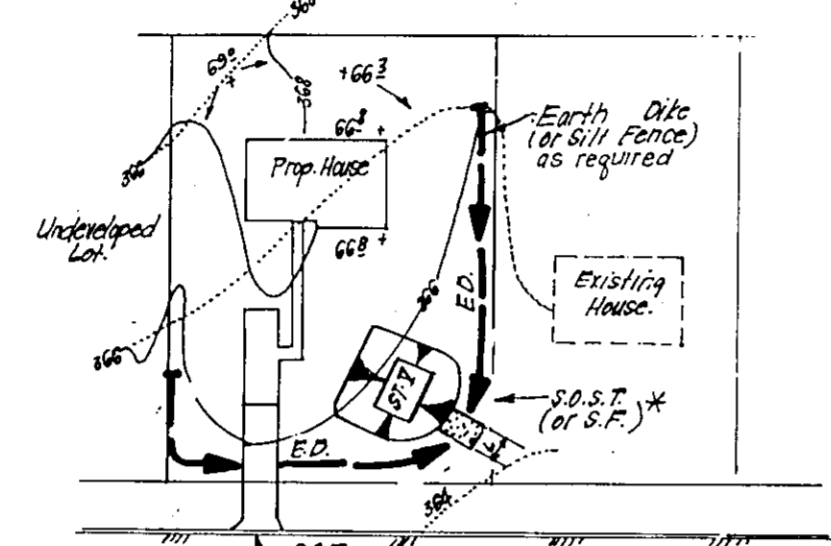
EARTH DIKE DETAIL (E.D.)
NO SCALE



CONSTRUCTION SPECIFICATIONS:

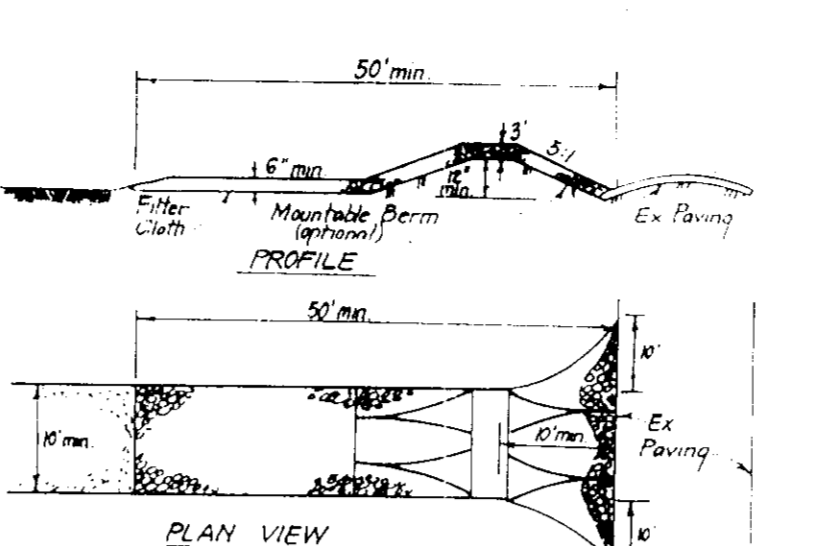
1. Woven wire fence to be fastened securely to fence posts with wire ties or staples.
2. Filter cloth to be fastened securely to woven wire fence with ties spaced every 30" at top and mid section.
3. When 2 sections of filter cloth adjoin each other they shall be overlapped 2" and stapled.
4. Maintenance shall be performed as needed and material removed when "bulges" develop in Silt Fence.

SILT FENCE DETAIL (S)
NO SCALE



NOTE: Single lot detail can not be utilized if only 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



CONSTRUCTION SPECIFICATIONS:

1. Stone size - Use 2" stone or rounded or recycled concrete equivalent.
2. Length - As required, but not less than 50 feet (exception a single residue lot where a 30' foot minimum length would apply).
3. Thickness - Not less than 6" (6" inches).
4. Width - Ten (10) feet minimum, but not less than the full width of 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 single family residences.
6. Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mound side berm with 5' slope will be constructed.
7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment into public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanup if any impurities used to trap sediment. All sediment shall be cleaned, washed or trucked 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

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/1000 sq ft) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Narrow or disc into upper three inches of soil. At 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 dolomitic limestone (92 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq ft) before seeding. Narrow 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 50 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 (.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 of 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, replacements and reseedings.

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redisturbed where a short-term vegetative cover is needed.

Seedbed Preparation: Loosen upper three inches of soil by raking, 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 20 bushel per acre of annual rye (3.2 lbs/1000 sq ft). For the period May 1 thru August 15, 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 gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes, 8 ft or higher, use 348 gal 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 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 SPECIFICATIONS 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 structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.
- 4) All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- 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) and temporary stabilization (Sec. 50) and 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	12.25 Acres
Area Disturbed	11.19 Acres
Area to be roofed or paved	3.17 Acres
Area to be vegetatively stabilized	8.02 Acres
Total Cut	11,870 Cu. yds
Total Fill	11,660 Cu. yds
Offsite waste/borrow area location	See Below

- 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 DW 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 Lot Sediment Control as shown below shall be implemented.
- 12) All pipes to be blocked at the end of each day (see detail below). N/A
- 13) The total amount of straw bale dikes/silt fence equals 5550 L.F.

*** If it is the responsibility of the contractor to identify spoil/borrow site and notify HSCD of the site and its grading permit number at the time of construction.**

CONSTRUCTION SEQUENCE:

	No. of Days
A. Obtain Grading Permit and Install Sediment and Erosion Control Devices and Stabilize.	7
*B. Excavate for foundations and Rough Grade & Temporarily Stabilize.	30
C. Construct Structures, Sidewalks and Driveways.	90
D. Final Grade and stabilize in accordance with Stds. & Specs.	14
E. Upon approval of the sediment control inspector, remove sediment and erosion controls and stabilize.	7

* Delay Construction on Lot 18, once trap is removed see single lot sediment control, this sheet.

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
 Approved: *Joselyn Boudous* 8/19/91
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
 Approved: *James P. ...* 8/27/91
 DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Approved: *James P. ...* 8/12/91
 DIRECTOR DATE

CHIEF BUREAU OF ENGINEERING
 Approved: *...* 8/9/91
 DATE

Reviewed for **HOWARD COUNTY** S.C.D.
 Name: *John M. ...*
 and meets Technical Requirements
 Signature: *John M. ...* 8/19/91
 Date
 U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY CONSERVATION DISTRICT.
 Approved: *John M. ...* 8/1/91
 Signature Date

DEVELOPER'S/BUILDER'S CERTIFICATE

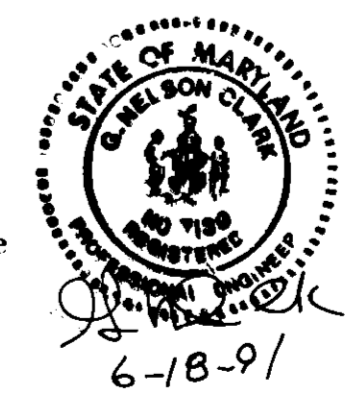
"I/We certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training 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: *Maurice M. Simpkins* Date: 6-18-90

ENGINEER'S CERTIFICATE

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

Signature: *G. Nelson Clark* Date: 6-18-91



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

DESIGNED KIWM	SEDIMENT & EROSION CONTROL PLAN LOTS 1-30 SECTION 1 AREA 1 32-57 SECTION 1 AREA 2 LONGRIDGE KNOLLS TAX MAP NO 36 PARCEL 5 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: THE RYLAND GROUP, INC. 7130 Minstrel Way Columbia, Maryland 21045 SDP-91-124	SCALE As Shown
DRAWN BAL		DRAWING 5 OF 5
CHECKED KIWM		JOB NO. 91-070
DATE JUNE 1991		FILE NO. 91-070