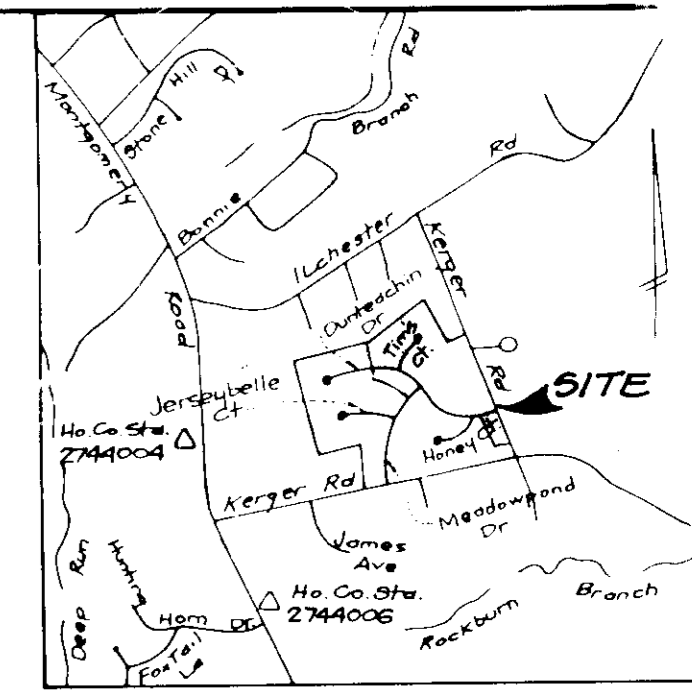


LEGEND

- Contour Interval: 2 FT
- Existing Contour: ---
- Proposed Contour: - - -
- Spot Elevation: +10'
- Direction of Drainage: (arrow)
- Walk out Basement: (arrow)
- Trees to be Saved: (circle)
- Tree Protection Fence: (line)

ADDRESS CHART

LOT No.	STREET ADDRESS
66	5335 DUNTEACHIN DRIVE
105	5344
106	5340
107	5336
108	5332
120	5260 KERGER ROAD



GENERAL NOTES:

- Subject property is zoned: R-20 per 10-18-93 Comprehensive Zoning Plan.
- The total area included in this submission is: 14.35 AC.
- The total number of lots included in this submission are: 42.
- Improvement to property: Single family detached.
- SHC elevations shown are located at the property line.
- Department of Planning and Zoning reference file numbers are: F-20-103, F-20-115, F-20-101.
- Utilities shown as existing are taken from approved water and sewer plan Contract # 14-3034-D approved road construction plans F-20-101 and actual field survey.
- Any damage to county owned rights-of-way shall be corrected at the developer's expense.
- Storm water management is provided per: F-20-101.
- All roadways are public and existing.
- The existing topography shown was taken from road construction plans F-20-101 prepared by Dewberry and Davis Inc.
- The coordinates shown herein are based upon the Howard County Geodetic Control which is based upon the Maryland State Plane Coordinate System - Howard County Monument Nos.: 2744004, 2744006.
- The contractor shall notify the Department of Public Works/Division of Construction Inspection (410) 313-1880 at least twentyfour (24) hours prior to the start of work.
- The contractor shall notify "Miss Utility" at 1-800-777-7777 at least 48 hours prior to any excavation work.
- In accordance with sections 12B, A, B and C of the Zoning Regulations, bay windows or chimneys not more than 10 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 setback.
- For driveway entrance details, refer to Ho. Co. Design Manual Volume III detail R-201, 2-603 & 2-605.
- The wetland/stream buffer indicated on this plan does not affect the 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.

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-20-101 and/or approved Water and Sewer Plans Contract # 14-3034-D. SHC elevations shown are of the property line.

OWNER / DEVELOPER

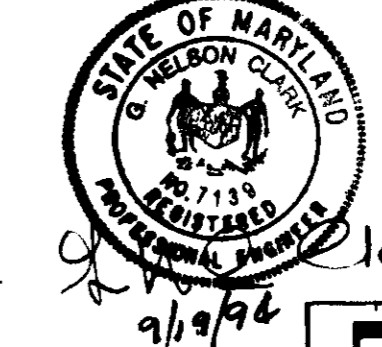
THE RYLAND GROUP
7130 Minstrel Way, Suite 215
Columbia, Maryland 21045

SHEET INDEX

SITE DEVELOPMENT PLAN SHEETS 1-3 of 7
SEDIMENT & EROSION CONTROL PLAN SHEETS 4-7 of 7

MINIMUM LOT SIZE CHART

LOT NO.	GROSS AREA	PIPED AREA	REMAINING AREA	100 YEAR FLOODPLAIN	25% SLOPES	MINIMUM LOT SIZE
106	20,737#	3526#	17,211#	N/A	N/A	17,211#
105	16,075#	3377#	12,698#	N/A	N/A	12,698#



SUBDIVISION NAME	DUNTEACHIN FARM	SECTION/AREA	TWO	LOT No.	47-49, 60-71, 80-100
BLK NO.	21	ZONE	R-20	TAX MAPING	31
DATE	10/14/94	ELEC DIST	18	CENSUS TRACT	5011.01
WATER CODE	D 03	SEWER CODE	21550000		

CLARK • FINEFROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS
7135 MINSTREL WAY • COLUMBIA MD 21045 • (410) 381-7500 - BALTO • (301) 624-8000 - WASH

DESIGNED: VLP
DRAWN: MCR
CHECKED: JME
DATE: 9-15-94

SITE DEVELOPMENT PLAN
LOTS 47 to 49, 60 to 71, 80 to 120
DUNTEACHIN FARM
SECTION TWO
1ST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE: 1" = 30'
DRAWING: 1 OF 7
JOB NO: 93-089
FILE NO: 93-089

FOR: THE RYLAND GROUP
7130 Minstrel Way, Suite 215
Columbia, Maryland 21045

3 Add S.R. to Avondale hse. typical 6-28-97
2 Add Hawthorne II hse. typical 5-3-95
1 Rev. hse. & grd. lot 108 3-6-95
N/A REVISION Date

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
Director: [Signature] 10/14/94
CHIEF DIVISION OF LAND DEVELOPMENT AND RESEARCH

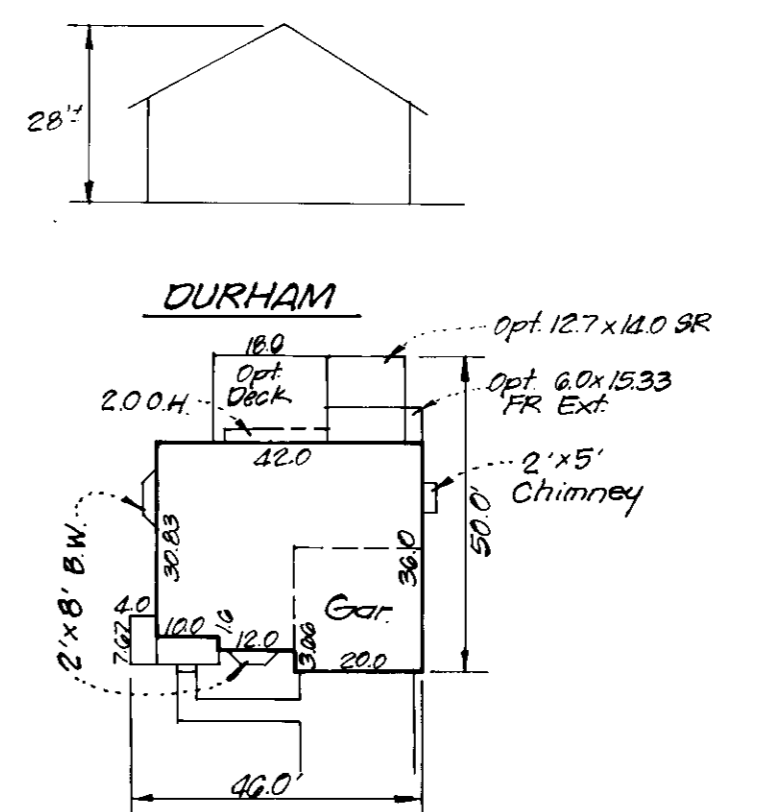
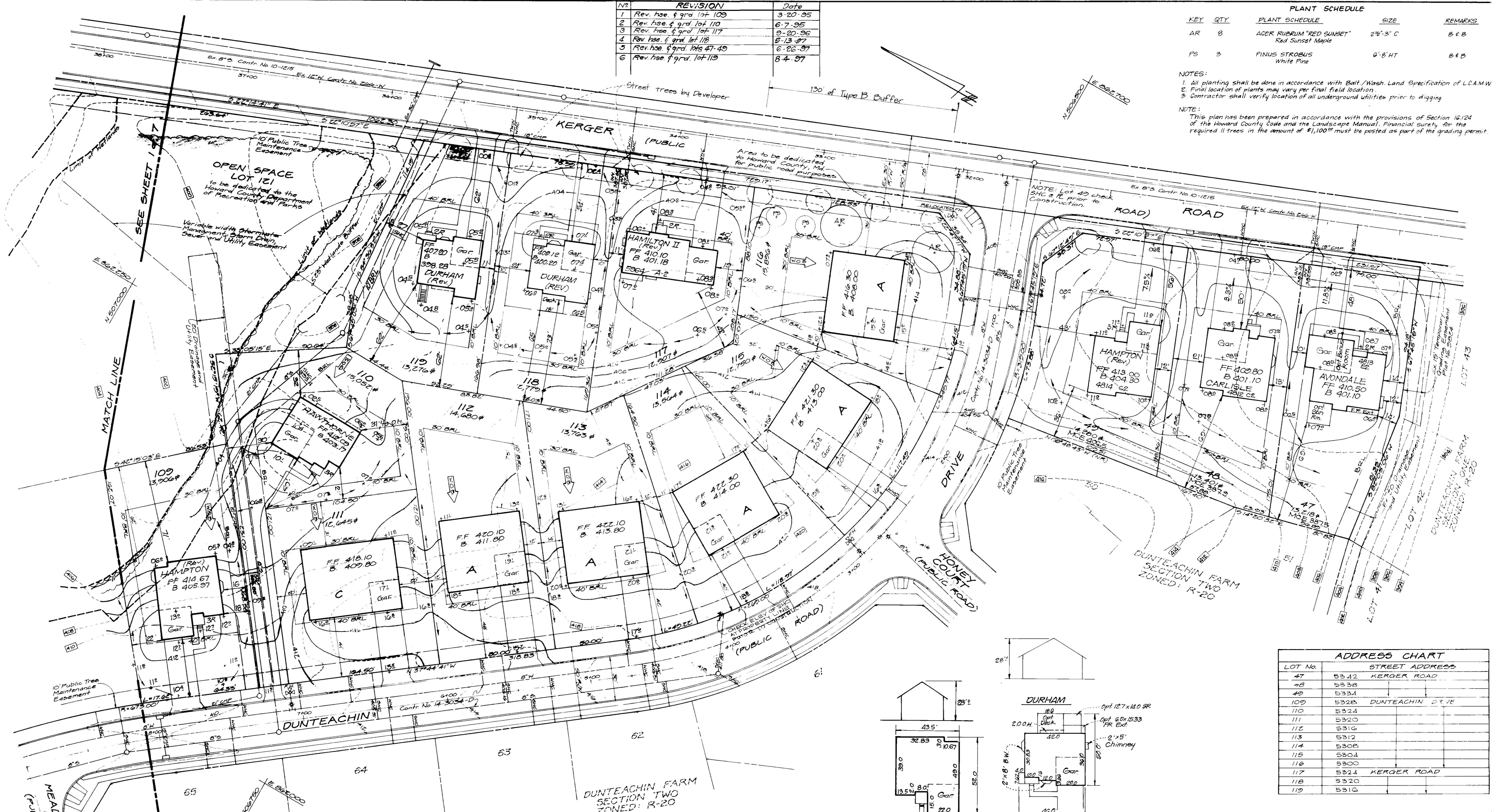
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Director: [Signature] 10/14/94
CHIEF BUREAU OF ENGINEERING M.K. OD W/1/94

NO	REVISION	DATE
1	Rev. hse. § grad. lot 109	3-20-95
2	Rev. hse. § grad. lot 110	6-7-95
3	Rev. hse. § grad. lot 117	9-20-96
4	Rev. hse. § grad. lot 118	9-13-97
5	Rev. hse. § grad. lots 47-49	6-26-97
6	Rev. hse. § grad. lot 119	8-4-97

KEY	QTY	PLANT SCHEDULE	SIZE	REMARKS
AR	8	ACER RUBRUM "RED SUNSET" Red Sunset Maple	2 1/2" - 3" C	B & B
PS	3	PINUS STROBUS White Pine	6" - 8" HT	B & B

NOTES:
 1. All planting shall be done in accordance with Baltimore/Wash. Land Specification of L.C.A.M.W.
 2. Final location of plants may vary per final field location.
 3. Contractor shall verify location of all underground utilities prior to digging.

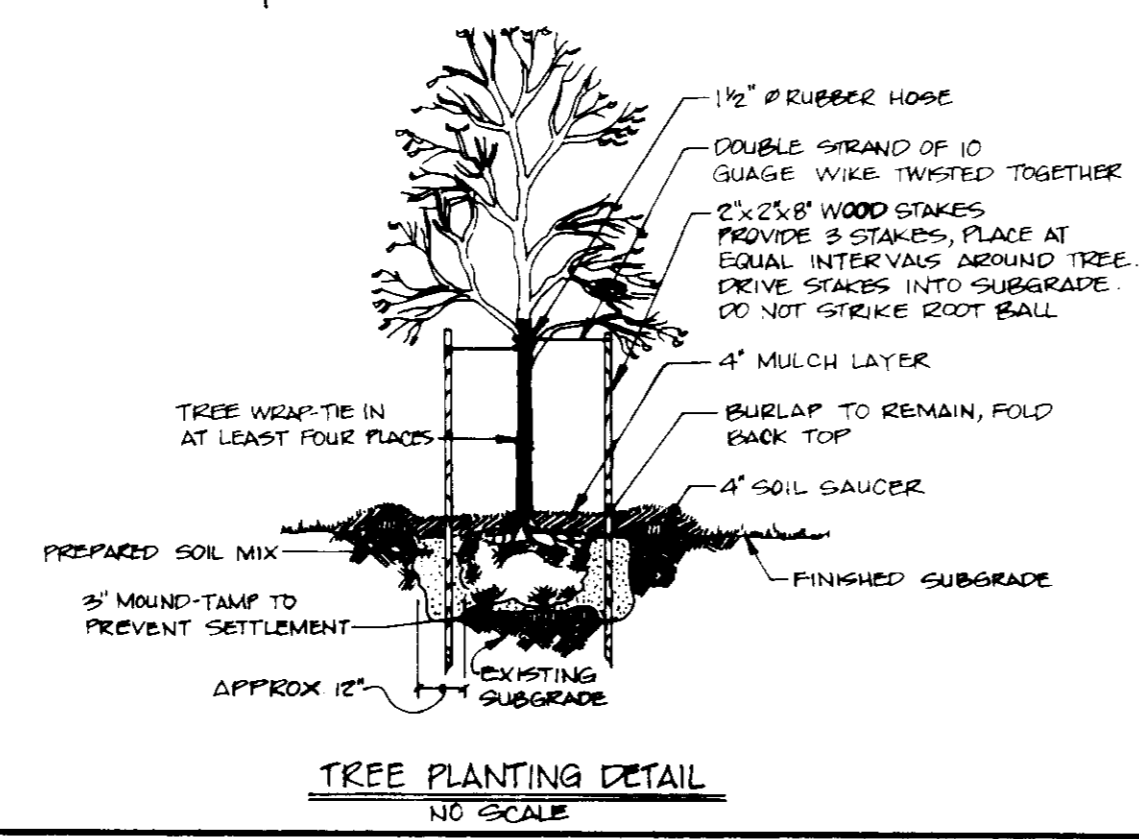
NOTE:
 This plan has been prepared in accordance with the provisions of Section 16.124 of the Howard County Code and the Landscape Manual. Financial surety for the required 11 trees in the amount of \$1,100.00 must be posted as part of the grading permit.



ADDRESS CHART		
LOT No.	STREET ADDRESS	
47	5342 KERGER ROAD	
48	5338	
49	5334	
109	5328 DUNTEACHIN DRIVE	
110	5324	
111	5320	
112	5316	
113	5312	
114	5308	
115	5304	
116	5300	
117	5324 KERGER ROAD	
118	5320	
119	5316	

MINIMUM LOT SIZE CHART						
LOT No.	GROSS AREA	PIPESTEM AREA	REMAINING AREA	100 YEAR FLOODPLAIN	25% SLOPED	MINIMUM LOT SIZE
110	15,052 #	2,420 #	12,532 #	N/A	N/A	12,532 #

SCHEDULE A PERIMETER LANDSCAPE EDGE		
CATEGORY	ADJACENT TO ROADWAYS	ADJACENT TO PERIMETER PROPERTIES
Landscape Type	B	A
Linear Feet of Roadway Frontage/Perimeter	130	1540
Credit for Existing Vegetation (Yes, No, Linear Feet) (Describe below if Needed)	---	1165
Credit for Wall, Fence or Berm (Yes, No, Linear Feet) (Describe below if Needed)	---	---
Number of Plants Required		
Shade Trees	2	6
Evergreen Trees	3	3
Shrubs	---	---
Number of Plants Provided		
Shade Trees	2	6
Evergreen Trees	3	3
Other Trees (2:1 substitute)	---	---
Shrubs (10:1 substitute)	---	---



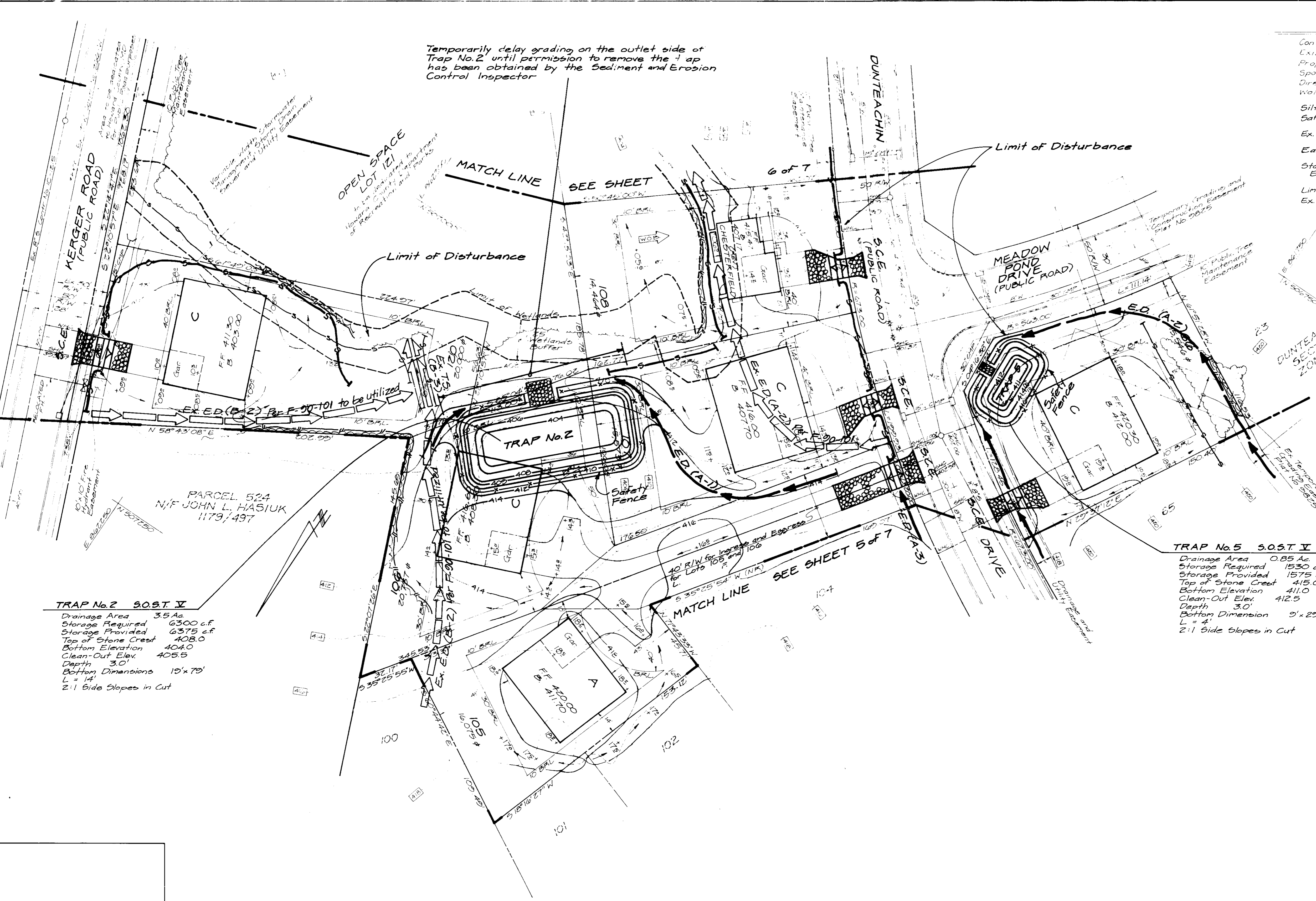
OWNER/DEVELOPER
 THE RYLAND GROUP
 7130 Minstrel Way, Suite 215
 Columbia, Maryland 21045

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
 Director: *Anna Summary* DATE: 10/14/94
 Chief Division of: *Anna Summary* DATE: 10/14/94

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Director: *Lawrence J. Lee* DATE: 10/17/94
 Chief Bureau of Engineering: *Mark D. [unclear]* DATE: 10/17/94

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

DESIGNED	VLP	SITE DEVELOPMENT PLAN LOTS 47 to 49, 66 to 71, 88 to 120 DUNTEACHIN FARM SECTION TWO 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: THE RYLAND GROUP 7130 Minstrel Way, Suite 215 Columbia, Maryland 21045	SCALE	1" = 30'
DRAWN	MCR		DRAWING	3 of 7
CHECKED	JME		JOB NO.	03-089
DATE	9-19-94		FILE NO.	03-089-X
				SDP-03-1C

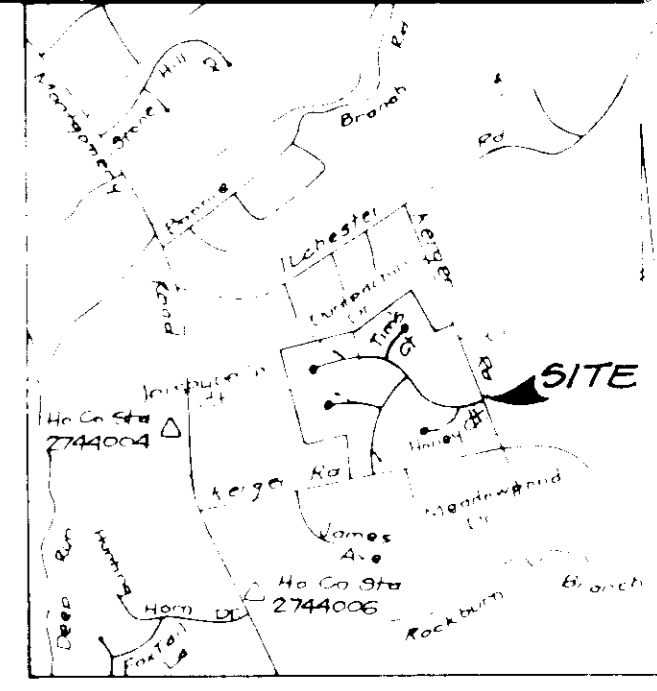


LEGEND

Contour Interval 2 FT
 Existing Contour [Symbol]
 Proposed Contour [Symbol]
 Spot Elevation [Symbol]
 Direction of Drainage [Symbol]
 Walk out Basement [Symbol]

Silt Fence [Symbol]
 Safety Fence [Symbol]
 Ex. Earth Dike [Symbol]
 Earth Dike [Symbol]
 Stabilized Construction Entrance [Symbol]
 Limit of Disturbance [Symbol]
 Ex. Temporary Swale [Symbol]

Ex. Trees to be saved [Symbol]
 Tree Protection Fence [Symbol]
 Temporary Swale [Symbol]



Ho Co Control Station 2744004 - Elev. 415.94'
 7 1/2' Radius O.B. below surface 7 1/2' W of Route 103
 and 1400' S.E. of Interstate Road

Ho Co Control Station 2744005 - Elev. 400.533' Cont.
 Mon. 0.4' below surface B.C.E. of Route 103 E. 700' S. of
 of Kerger Rd. 18.3' E. off E. Route 103

NOTE: Temporary Grading Easements to be null and void at such time as the area is stabilized and all bedrock control devices are removed.

TRAP No. 2 S.O.S.T. V
 Drainage Area 35 Ac
 Storage Required 6300 c.f.
 Storage Provided 6375 c.f.
 Top of Stone Crest 408.0
 Bottom Elevation 404.0
 Clean-Out Elev. 405.5
 Depth 3.0'
 Bottom Dimensions 19' x 79'
 L = 14'
 2:1 Side Slopes in Cut

TRAP No. 5 S.O.S.T. V
 Drainage Area 0.85 Ac
 Storage Required 1530 c.f.
 Storage Provided 1575 c.f.
 Top of Stone Crest 415.0
 Bottom Elevation 411.0
 Clean-Out Elev. 412.5
 Depth 3.0'
 Bottom Dimension 9' x 25'
 L = 4'
 2:1 Side Slopes in Cut

OWNER / DEVELOPER
 THE RYLAND GROUP
 7130 Minstrel Way, Suite 215
 Columbia, Maryland 21045

SUBDIVISION NAME DUNTEACHIN FARM		SECTION/AREA TWO	LOT NO. 47-49, 66-71, 88-100
PLAT NO. 5916 thru 5920	BLOCK NO. 21	ZONE R-20	TAX MAP NO. 31
ELEV. DIST. 5'		CENSUS TRACT 8011.01	
WATER CODE D-03		SEWER CODE 21550000	

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
 Director: [Signature] 10/17/94
 Chief Division of Land Development and Research: [Signature] 10/14/94

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 Director: [Signature] 10/7/94
 Chief Bureau of Engineering: [Signature] 10/7/94

Reviewed for HOWARD COUNTY
 Name: [Signature] 9/11/94
 U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY CONSERVATION DISTRICT
 [Signature] 7/27/94
 Approved

DEVELOPERS/SUBMITTER
 I hereby certify that this plan complies with the requirements of the Howard County Department of Planning and Zoning and that it meets the requirements of the Howard County Department of Public Water and Sewerage, Storm Drainage Systems and Public Roads.
 [Signature] 7/28/94
 Signature of Developer: [Signature] Derek McDaniel Ryland Homes

DESIGNED BY: [Signature] 7/28/94
 G. NELSON CLARK DATE

CLARK • FINEROCK & SACKETT, INC.
 ENGINEERS • PLANNERS • SURVEYORS
 7135 MINSTREL WAY • COLUMBIA, MD 21046 • 410-381-7800 • BALTO. • 410-424-1000 • WASH.

DESIGNED ZAL	SEDIMENT and EROSION CONTROL PLAN LOTS 47 to 49, 66 to 71, 88 to 100	SCALE 1" = 30'
DRAWN MCR	DUNTEACHIN FARM SECTION TWO	DRAWING 4 OF 7
CHECKED JLS	1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO. 93-089
DATE 9-19-94	FOR THE RYLAND GROUP 7130 Minstrel Way, Suite 215 Columbia, Maryland 21045	FILE NO. 93-089

TRAP No.3 SOST V

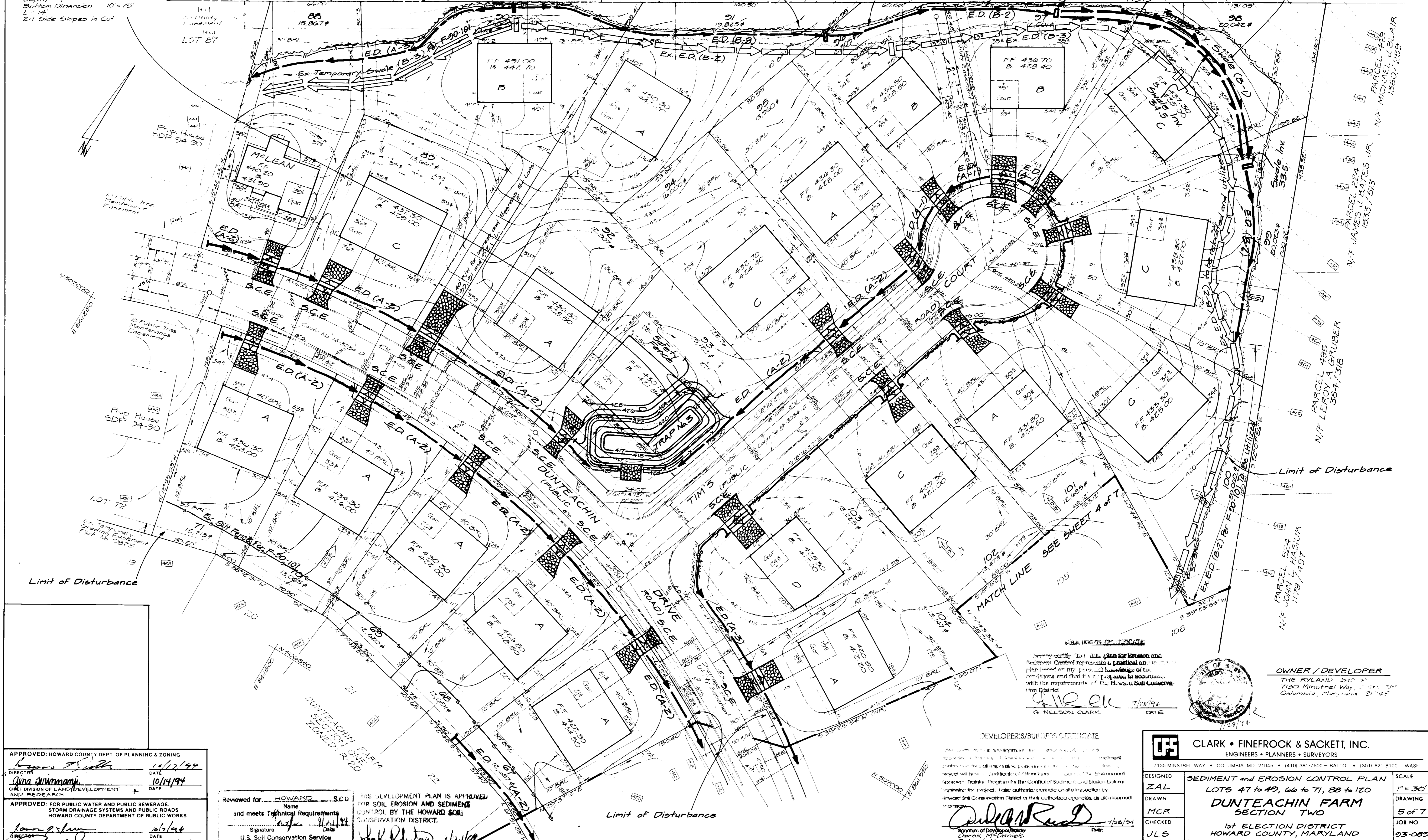
Drainage Area 3.5 Ac.
 Storage Required 5940 cf
 Storage Provided 5970 cf
 Top of Stone Crest 422.0
 Bottom Elevation 417.0
 Clean-Out Elev. 419.0
 Depth 4'
 Bottom Dimension 10' x 75'
 L=14'
 2:1 Side Slopes in Cut

PARCEL 217
 N/F CHARLES F MEYER JR
 1555/130

PARCEL 242
 N/F LEO J ZEHRHAUSEN
 761/130

PARCEL 221
 N/F HERMAN F ONEILL
 201/324

PARCEL 221
 N/F LEO G WALKER
 201/324



APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
 Director: *Anna Sivammani* 10/14/94
 CHIEF DIVISION OF LAND DEVELOPMENT AND RESEARCH

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Director: *James P. Sullivan* 10/17/94
 CHIEF BUREAU OF ENGINEERING M.K. 02/1/94

Reviewed for: HOWARD S.C.D.
 Name: Howard
 and meets Technical Requirements
 Signature: *[Signature]* Date: 10/14/94
 U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED
 FOR SOIL EROSION AND SEDIMENT
 CONTROL BY THE HOWARD SOIL
 CONSERVATION DISTRICT.
 Signature: *[Signature]* Date: 10/14/94
 Approved

DEVELOPER'S/BUILDER'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 conditions and that I'm a duly qualified professional engineer with the requirements of the Howard Soil Conservation District.
 Signature: *[Signature]* Date: 7/22/94
 G. NELSON CLARK



OWNER / DEVELOPER
 THE RYLAND GROUP
 7130 Minstrel Way, Suite 215
 Columbia, Maryland 21045

CLARK • FINEFROCK & SACKETT, INC. ENGINEERS • PLANNERS • SURVEYORS 7135 MINSTREL WAY • COLUMBIA, MD. 21045 • (410) 381-7500 - BALTO. • (301) 621-8100 - WASH.		
DESIGNED ZAL	SEDIMENT and EROSION CONTROL PLAN LOTS 47 to 49, 66 to 71, 88 to 120 DUNTEACHIN FARM SECTION TWO 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: THE RYLAND GROUP 7130 Minstrel Way, Suite 215 Columbia, Maryland 21045	SCALE 1" = 30'
DRAWN MCR		DRAWING 5 of 7
CHECKED JLS		JOB NO. 93-089
DATE 9/19/94		FILE NO. 93-089B
SDP-2-10		

TRAP No. 4 S.O.S.T. ST-V
 Drainage Area 10 Ac.
 Storage Required 1800 c.f.
 Storage Provided 1832 c.f.
 Top of Stone Crest 401.0
 Bottom Elevation 397.0
 Clean-Out Elev. 398.5
 Depth 3.0'
 Bottom Dimensions 26' x 26' x 38'
 L = 4'
 2:1 Side Slopes in Cut

TRAP No. 1 S.O.S.T. V
 Drainage Area 3.7 Ac.
 Storage Required 660 c.f.
 Storage Provided 670 c.f.
 Top of Stone Crest 401.0
 Bottom Elevation 396.0
 Clean-Out Elev. 398.0
 Depth 4'
 Bottom Dimensions 16' x 62'
 L = 15'
 2:1 Side Slopes in Cut

OWNER / DEVELOPER
 THE RYLAND GROUP
 7150 Minstrel Way, Suite 215
 Columbia, Maryland 21045

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
 Director: *[Signature]* DATE: 10/17/94
 Chief Division of: *[Signature]* DATE: 10/14/94

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Director: *[Signature]* DATE: 10/16/94
 Chief Bureau of Engineering / M.K. O'Sullivan DATE: 10/7/94

Reviewed for: **HOWARD** S.E.
 Name: *[Signature]*
 Signature: *[Signature]*
 U.S. Soil Conservation Service

DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

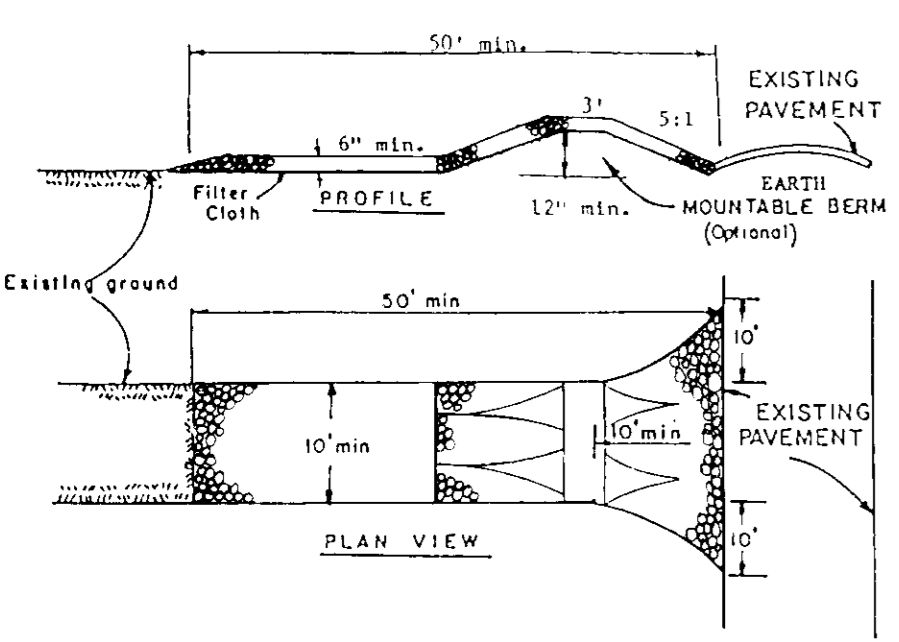
[Signature] 7/21/94
 Approved: Derek McDaniel Ryland Homes

DESIGNED: *[Signature]*
 DRAWN: *[Signature]*
 MCR: *[Signature]*
 CHECKED: *[Signature]*
 JLS: *[Signature]*
 DATE: 7/28/94
 G. NELSON CLARK



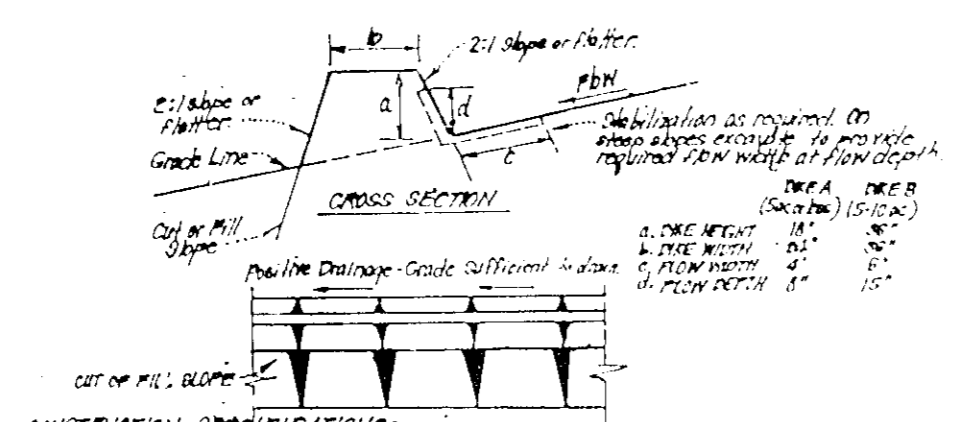
CLARK • FINEFROCK & SACKETT, INC. ENGINEERS • PLANNERS • SURVEYORS		
7135 MINSTREL WAY • COLUMBIA, MD 21045 • (410) 381-7500 • BALTO • (301) 621-8100 • WASH		
DESIGNED	SEDIMENT and EROSION CONTROL PLAN	SCALE
DRAWN	LOTS 47 to 49, 66 to 71, 88 to 120	1" = 30'
MCR	DUNTEACHIN FARM	DRAWING
CHECKED	SECTION TWO	6 of 7
JLS	1st ELECTION DISTRICT	JOB NO.
DATE	HOWARD COUNTY, MARYLAND	93-089
9/10/94	FOR: THE RYLAND GROUP	FILE NO.
	7150 Minstrel Way, Suite 215	93-089
	Columbia, Maryland 21045	

SDP-25-10

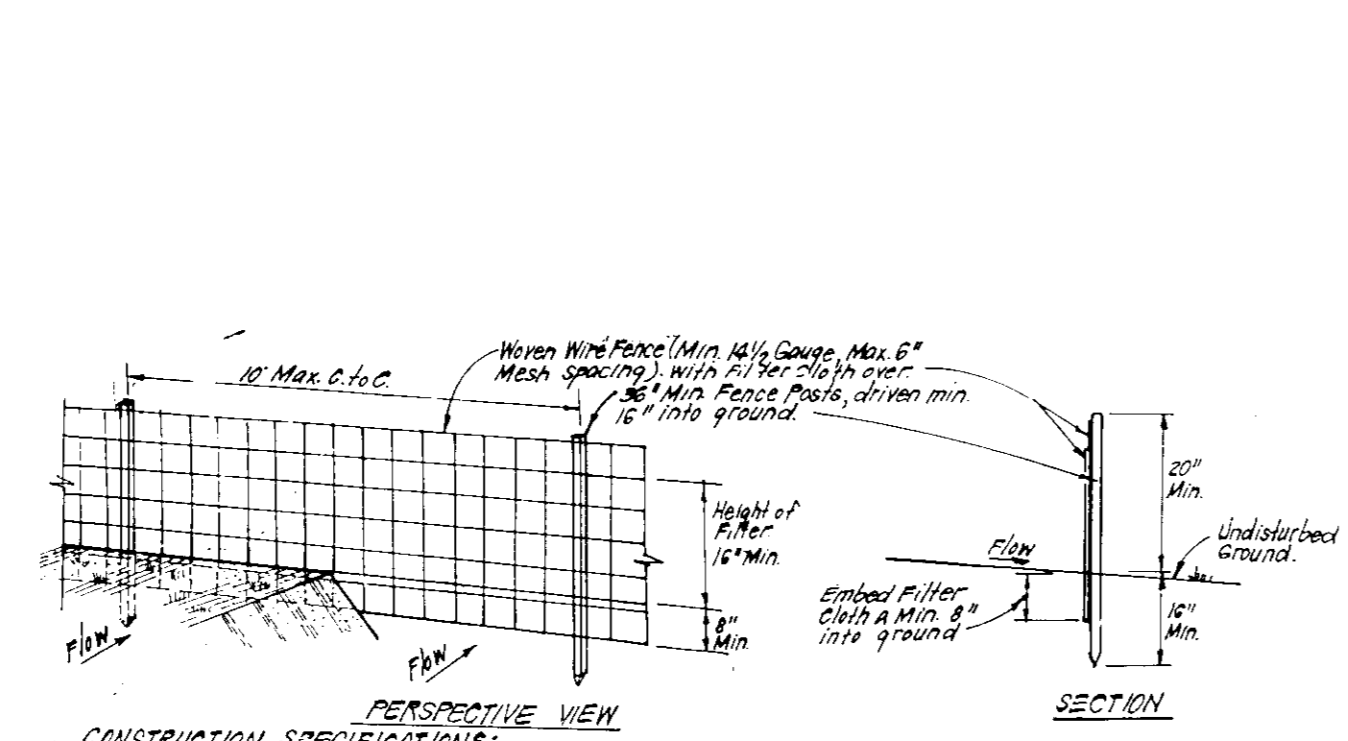


- CONSTRUCTION SPECIFICATIONS**
1. Stone Size - Use 2" stones, or reclaimed or recycled concrete equivalent.
 2. Length - As required, but not less than 30 feet (except on a single residence lot where a 10 foot minimum length would apply).
 3. Thickness - Not less than six (6) inches.
 4. Width - Ten (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 base with six 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 raking 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 established 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

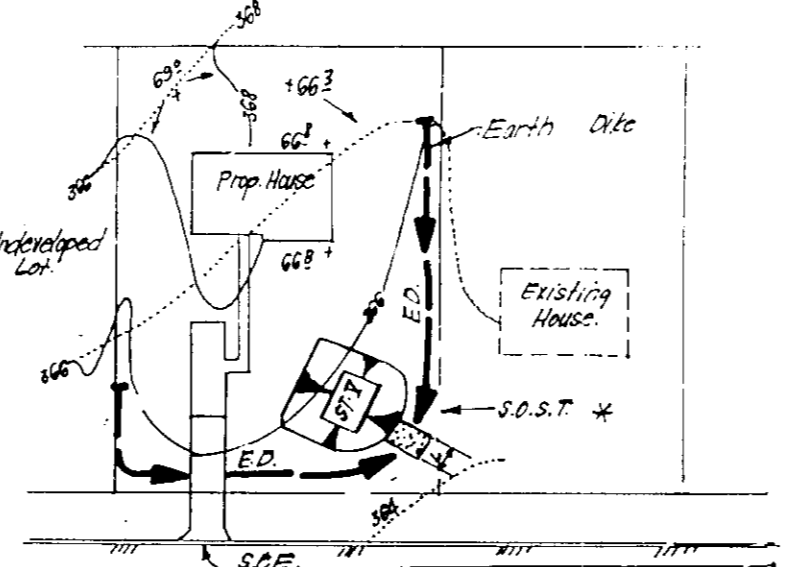


- CONSTRUCTION SPECIFICATIONS**
1. All dikes shall be constructed by earth moving equipment.
 2. All dikes shall have positive drainage to an outlet.
 3. Top width may be wider and side slopes may be steeper if desired, to facilitate passage by construction vehicles.
 4. Filter cloth shall be placed over the entire area prior to placing of stone.
 5. Earth dikes shall have an outlet that discharges into a minimum of 100 feet of open ditch or to a sediment trapping device such as a sediment trap or sediment basin where dikes are adjacent to the drainage area above the dikes are not adequately stabilized.
 6. Construction 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.
- CHANNEL STABILIZATION**
- | TYPE OF CHANNEL | CHANNEL GRADE | VEGETATION | STONE OR MULCH |
|-----------------|---------------|------------|----------------|
| 1 | 1% - 2% | Grass | None |
| 2 | 3% - 6% | Grass | None |
| 3 | 7% - 10% | Grass | None |
| 4 | 11% - 15% | Grass | None |
| 5 | 16% - 20% | Grass | None |
| 6 | 21% - 25% | Grass | None |
| 7 | 26% - 30% | Grass | None |
| 8 | 31% - 35% | Grass | None |
| 9 | 36% - 40% | Grass | None |
| 10 | 41% - 45% | Grass | None |
| 11 | 46% - 50% | Grass | None |
| 12 | 51% - 55% | Grass | None |
| 13 | 56% - 60% | Grass | None |
| 14 | 61% - 65% | Grass | None |
| 15 | 66% - 70% | Grass | None |
| 16 | 71% - 75% | Grass | None |
| 17 | 76% - 80% | Grass | None |
| 18 | 81% - 85% | Grass | None |
| 19 | 86% - 90% | Grass | None |
| 20 | 91% - 95% | Grass | None |
| 21 | 96% - 100% | Grass | None |
- EARTH DIKE DETAIL (E.D.)**
NO SCALE



- CONSTRUCTION SPECIFICATIONS**
1. Weave wire fence to be fastened securely to fence posts with wire ties or staples.
 2. Filter cloth to be fastened securely to weave wire fence with wire spaced every 24" at top and mid section.
 3. When 2 sections of filter cloth begin each other they shall be overlapped by 6" and stapled.
 4. Maintenance shall be performed as needed and material removed when "clumps" develop in silt fence.
- POSTS:** Steel, either T or U Type or 2" Hardwood
FENCE: Weave Wire, 1/2" Gauge, 6" Max. Mesh Opening
FILTER CLOTH: Filter, Mira's 1000, Stabilink, T140N or Approx. equal
PREPARED UNIT: geotext, geotext, geotext, equal

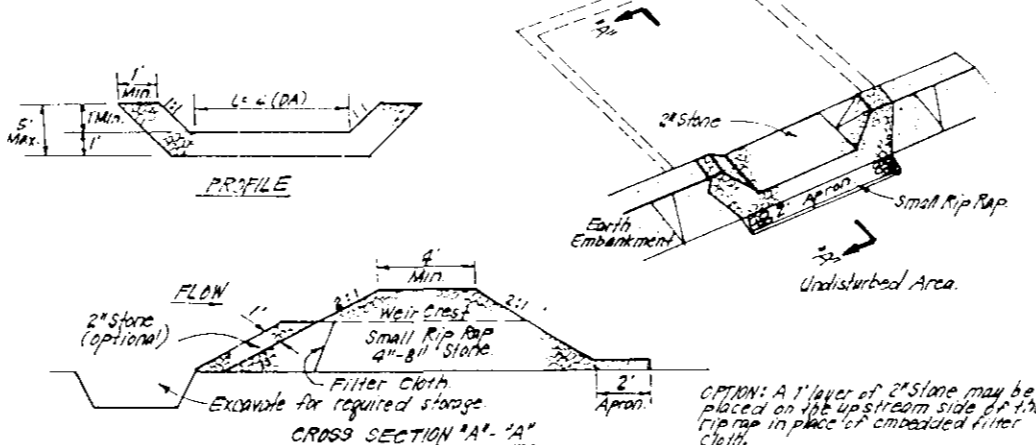
SILT FENCE DETAIL (S)
NO SCALE



SINGLE LOT SEDIMENT CONTROL PLAN
NO SCALE

ITEM	DESCRIPTION	QUANTITY	UNIT
1	Stone	100	cu yd
2	Filter Cloth	100	sq ft
3	Earth Dike	100	ft
4	Trap	1	unit

SINGLE LOT SEDIMENT CONTROL PLAN
NO SCALE



- CONSTRUCTION SPECIFICATIONS**
1. Top under placement shall be checked, graded and stripped of any vegetation and root material. The top shall be 12" wide.
 2. The 18" material for the sediment trap shall be placed in a single layer. The sediment trap shall be constructed of 18" material. The sediment trap shall be constructed of 18" material.
 3. The 18" material shall be placed in a single layer. The sediment trap shall be constructed of 18" material.
 4. The 18" material shall be placed in a single layer. The sediment trap shall be constructed of 18" material.
 5. The 18" material shall be placed in a single layer. The sediment trap shall be constructed of 18" material.
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 7. The 18" material shall be placed in a single layer. The sediment trap shall be constructed of 18" material.
 8. The 18" material shall be placed in a single layer. The sediment trap shall be constructed of 18" material.

STONE OUTLET SEDIMENT TRAP (SOST) STV
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.

SEEDING PREPARATION: Loosen upper three inches of soil by raking, disking 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.) before seeding, 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 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 60 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 well anchored straw mulch and seed as soon as possible in the spring. Option (2) use seed. 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 unrattled 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 reseeding.

TEMPORARY SEEDING NOTES

SEEDING PREPARATION: Loosen upper three inches of soil by raking, disking 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 bushels 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 (.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 seed.

MULCHING: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq ft.) of unrattled 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 Permit prior to the start of any construction. (31B-1895)
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 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 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 sod or straw 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: 14.55 AC
Area Disturbed: 14.55 AC
Area to be seeded or paved: 3.45 AC
Area to be vegetatively stabilized: 10.88 AC
Total Soil: 25.37 AC
Total Fill: 25.37 AC
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. 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.
10. All pipes to be blocked at the end of each day (see detail this sheet).
11. The total amount of silt fence is 1580 LF.

*It is the responsibility of the contractor to identify from 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 SEQUENCE:

NO.	DESCRIPTION	NO. OF DAYS
1	Obtain grading permit	7
2	Install tree protection fence	7
3	Install sediment and erosion control devices and stabilize	14
4	Excavate for foundations, rough grade and temporarily stabilize	30
5	Construct structures, sidewalks and driveways	60
6	Final grade and stabilize in accordance with Stds. and Specs.	14
7	Upon approval of the sediment control inspector, remove sediment and erosion control devices and stabilize	7

*Delay construction of houses on lots 23, 24, 102, 110, 117, 121. See single lot sediment control detail, this sheet.

OWNER/DEVELOPER

THE RYLAND GROUP
7130 Minnetre Way, Suite 215
Columbia, Maryland 21045

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
Director: *[Signature]* 10/7/94
Date: 10/14/94
CHIEF DIVISION OF LAND DEVELOPMENT AND RESEARCH

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC WORKS
Director: *[Signature]* 10/14/94
Date: 10/7/94
CHIEF BUREAU OF ENGINEERING

Reviewed for HOWARD COUNTY S.C.D. Name: _____
I hereby certify that the development plan complies with the requirements of the US Soil Conservation Service.
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 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] 7/28/94
Date: 7/28/94
Derek McDermott
Ryland Homes

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] 7/28/94
Date: 7/28/94
G. NELSON CLARK

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

7135 MINNETRE WAY • COLUMBIA MD 21045 • (410) 381-7500 - BALTO • (301) 621-8000 - WA311

DESIGNED	SEDIMENT AND EROSION CONTROL DETAILS	SCALE
ZAL	LOTS 47 to 49, 66 to 71, 88 to 120	AS NOTED
DRAWN	DUNTEACHIN FARM	DRAWING
MCR	SECTION TWO	7 of 7
CHECKED	1ST ELECTION DISTRICT	JOB NO
ULS	HOWARD COUNTY, MARYLAND	03-089
DATE	FOR THE RYLAND GROUP	FILE NO
9/10/94	7130 Minnetre Way, Suite 215 Columbia, Maryland 21045	03-089

CL - 05-10