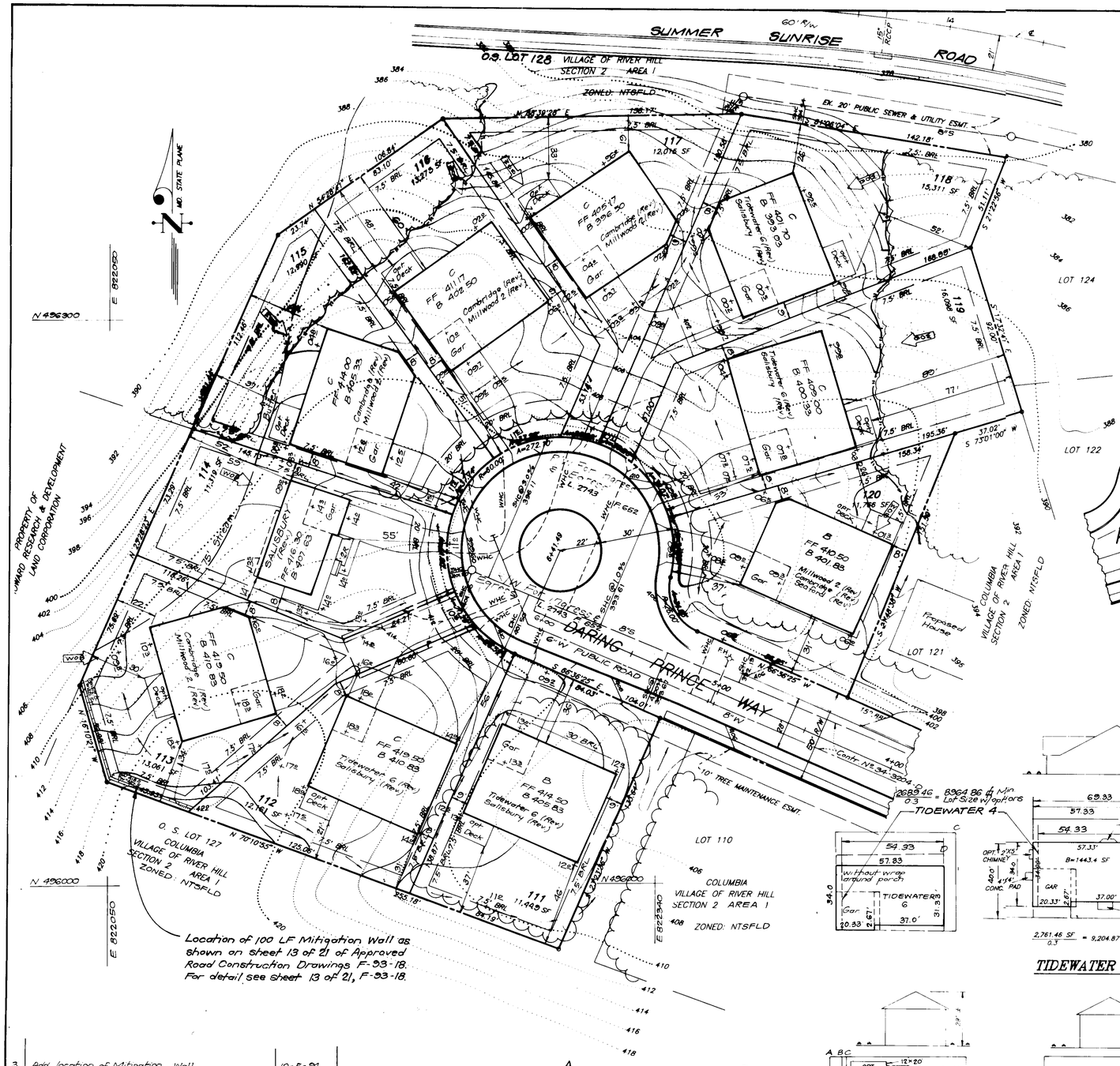
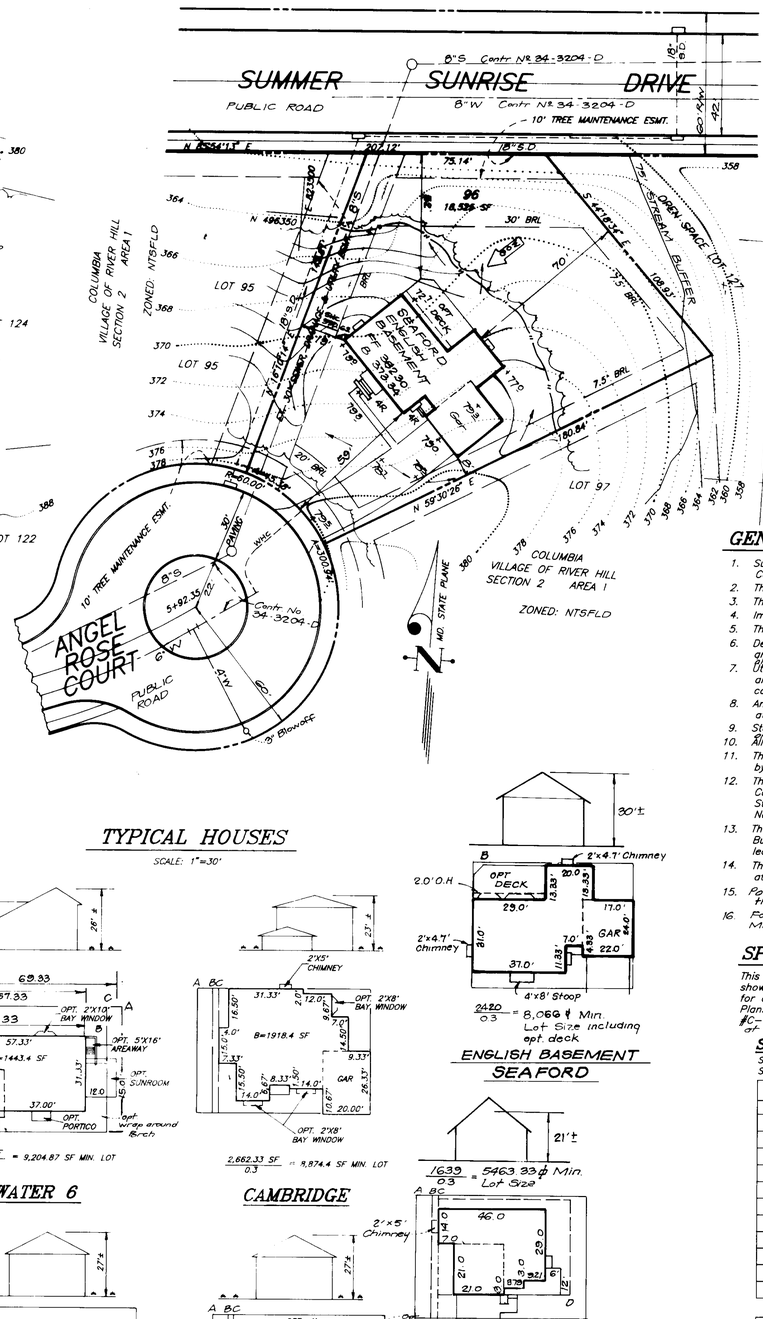
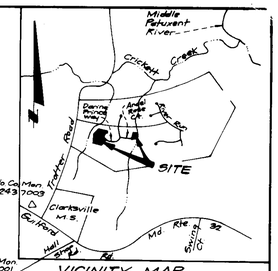






VICINITY MAP

Scale: 1" = 2000'

BENCHMARK No 1: Railroad Spike in pole # 525680 Telfer Road, El 303.27 N 496697.02, E 822026.81

LEGEND

CONTOUR INTERVAL	2 FT.
EXISTING CONTOUR	348
PROPOSED CONTOUR	348
DIRECTION OF DRAINAGE	
WALK OUT BASEMENT	WOB
EXISTING SEWER MAIN	8" SEWER
EXISTING WATER MAIN	8" WATER
EXISTING STORM DRAIN	12" S.D.
EXISTING TREES TO REMAIN	
TREE PROTECTION FENCE	

GENERAL NOTES:

1. Subject property is zoned: NTSFLD per 8-2-85 Comprehensive Zoning Plan and FDP Phase 200 Part I
2. The total area included in this submission is : 148,104 ± sf or 3.4 Ac.
3. The total number of lots included in this submission are: 11
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-91-03, P-92-13, WP-92-13, F-93-18 WP02-19 to allow a cul-de-sac to exceed 1,000 and 1,200 LF.
7. Utilities shown as existing are taken from approved water and sewer plan Contract # 34-3204-D , approved road construction plans F-93-18 ,
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-93-18, Detention & Quality Control provided on-site at the Quality Control Pond.
10. All roadways are public and existing.
11. The existing topography shown was taken from plans prepared by Riemer Mugge and Associates, Inc. F-93-18.
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.: 2337001 & 2437003.
13. The contractor shall notify the Department of Public Works/ Bureau of Construction Inspection at (410) 313-1870 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. Porches, decks, open or enclosed may project not more than three (3) feet into the front or rear setback
16. For driveway entrance details refer to Ho. Co. Design Manual Volume IV Std. Detail R-6.05, and R.6.01

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-93-18 and/or approved Water and Sewer Plans Contract #o- 34-3204-D. Sewer house connection elevations shown are of the property line.

SHEET INDEX:

ADDRESS CHART

LOT NUMBER	STREET ADDRESS	
96	6325	ANGEL ROSE COURT
111	6333	DARING PRINCE WAY
112	6337	DARING PRINCE WAY
113	6341	DARING PRINCE WAY
114	6345	DARING PRINCE WAY
115	6348	DARING PRINCE WAY
116	6344	DARING PRINCE WAY
117	6340	DARING PRINCE WAY
118	6336	DARING PRINCE WAY
119	6332	DARING PRINCE WAY
120	6328	DARING PRINCE WAY

TYPICAL HOUSES

SCALE: 1"=30'

TIDEWATER 4

268946 / 8964.86 ± Min. Lot Size w/ opt'ns = 0.3

2,761.46 SF / 0.3 = 9,204.87 SF MIN. LOT

TIDEWATER 6

3,021.2 SF / 0.3 = 10,071.67 SF MIN. LOT

CAMBRIDGE

2,662.33 SF / 0.3 = 8,874.4 SF MIN. LOT

SALISBURY

SALISBURY 2

2,342.34 SF / 0.3 = 7,807.8 SF MIN. LOT

MILLWOOD 2

1,960.5 SF / 0.3 = 6,535 SF MIN. LOT

ENGLISH BASEMENT SEAFORD

1639 / 0.3 = 5463.33 ± Min. Lot Size

CHRISFIELD

3	Add location of Mitigation Wall	10-5-94
2	Rev. hse and grade lot 119	6-20-94
1	Add hse typicals, Tidewater 4 & Chrisfield	2-7-94
No	REVISIONS	Date

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

COUNTY HEALTH OFFICER — DATE 7-14-93

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

DIRECTOR — DATE 7/6/93

CHIEF, DIVISION OF DEVELOPMENT AND RESEARCH — DATE 7/6/93

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

DIRECTOR — DATE 7/6/93

CHIEF, BUREAU OF ENGINEERING — DATE 6/30/93

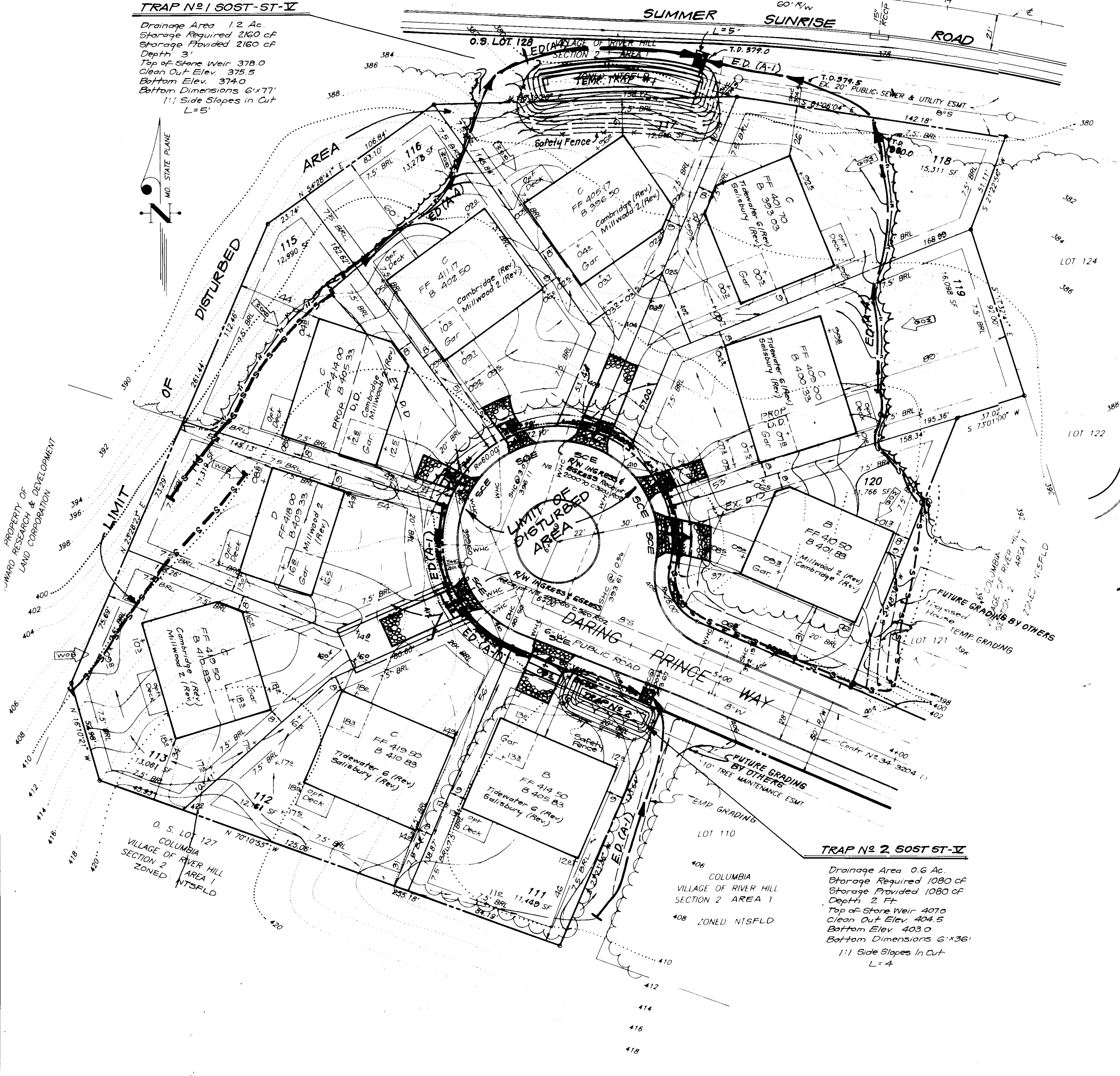
OWNER:
HOWARD RESEARCH AND DEVELOPMENT CORPORATION
10275 Little Patuxent Parkway
Columbia, Maryland 21044

SUBDIVISION NAME			SECTION/AREA	LOTS/PARCELS
COLUMBIA VILLAGE OF RIVER HILL			2/1	96 & 111-120
PLAT NO.	BLOCK NO.	ZONE	TAX MAP NO.	ELECTION DIST.	CENSUS TRACT
10863-10868	14, 15	NT 9FLD	35	5TH	6055
WATER CODE	I-12	SEWER CODE	6652500		

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 LOT 96 AND LOTS 111 THRU 120	SCALE 1"= 30'
DRAWN LAI BAL	COLUMBIA VILLAGE OF RIVER HILL SECTION 2 AREA 1 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	DRAWING 1 OF 3
CHECKED JME		JOB NO. 93-059
DATE April 1993	FOR: NUHOMES, INC. 10480 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044	FILE NO. 93-059X

SDP - 93-91

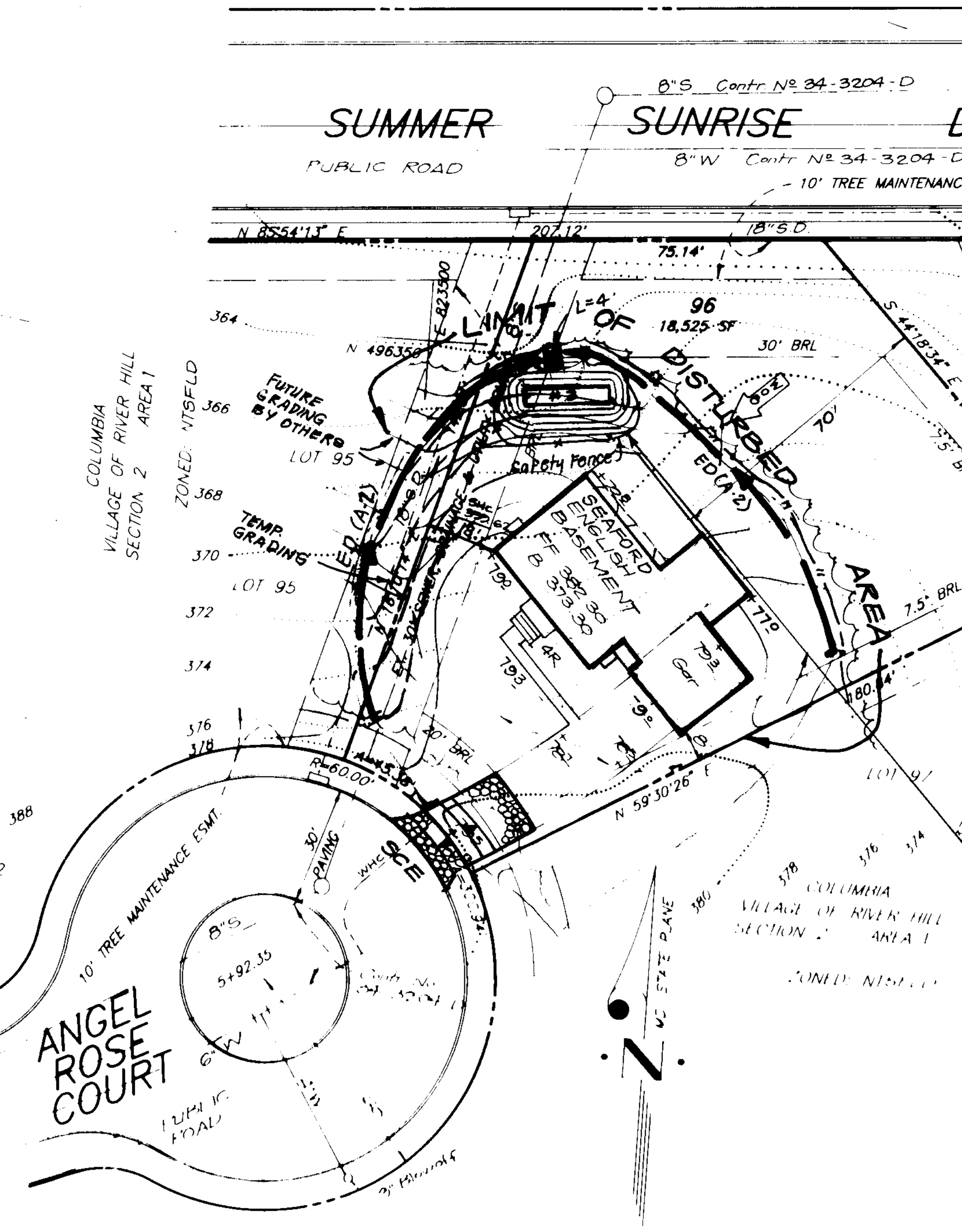


TRAP № 1 SOST-ST-V

Drainage Area 1.2 Ac.
Storage Required 2160 cf
Storage Provided 2160 cf
Depth 3'
Top of Stone Weir 378.0
Clean Out Elev. 375.5
Bottom Elev. 374.0
Bottom Dimensions 6'x77'
1:1 Side Slopes in Cut
L=5'

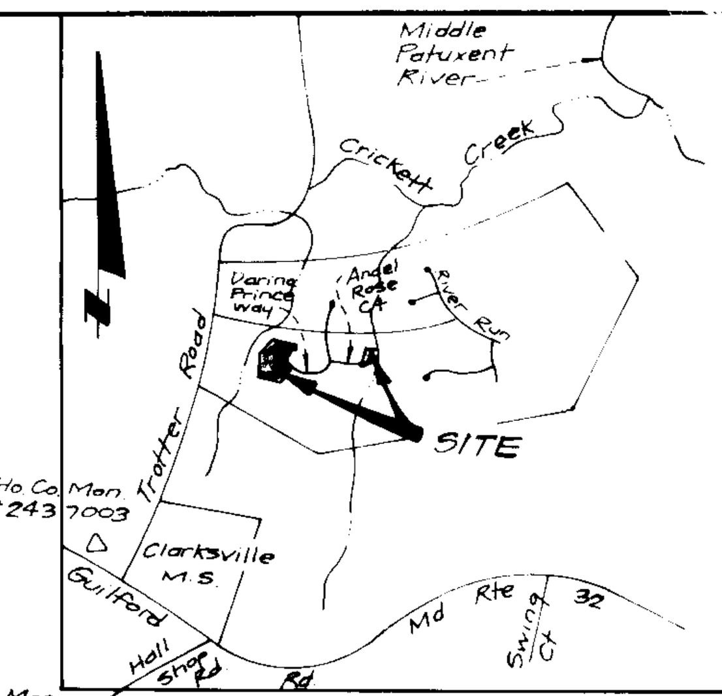
TRAP № 2 SOST ST-V

Drainage Area 0.6 Ac.
Storage Required 1080 cf
Storage Provided 1080 cf
Depth 2 Ft.
Top of Stone Weir 407.0
Clean Out Elev. 404.5
Bottom Elev. 403.0
Bottom Dimensions 6'x36'
1:1 Side Slopes In Cut
L=4



TEMP. TRAP #3 S.O.S.T (ST-V)

D.A. = 0.30 Ac.
Storage Req'd. = 540 CF
Storage Provided = 609 CF
Depth = 3 Ft.
Top of Stone Weir 365.0
Clean Out Elev. = 362.5
Bottom Elev. = 361.0
Bottom Dimensions = 4'x 23'
1:1 side slopes
L = 4'



VICINITY MAP

Scale 1" = 2000

BENCHMARK № 1 Railroad Spike in pole #525680 Trotter Road, El 303.27 N 496697.02, E 822026.81

Ho Co Mon #2337001

LEGEND

CONTOUR INTERVAL	2 FT.
EXISTING CONTOUR	340
PROPOSED CONTOUR	340
DIRECTION OF DRAINAGE	
WALK OUT BASEMENT	W.O.B.
EXISTING SEWER MAIN	8" SEWER
EXISTING WATER MAIN	8" WATER
EXISTING STORM DRAIN	15" S.D.
EXISTING TREES TO REMAIN	
TREE PROTECTION FENCE	
STABILIZED CONSTRUCTION ENTRANCE	SCE
SILT FENCE	— S — S — S —
Earth Dike	E.D. (A-1)

OWNER:
HOWARD RESEARCH AND DEVELOPMENT CORPORATION
10275 Little Patuxent Parkway
Columbia, Maryland 21044

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

COUNTY HEALTH OFFICER — DATE 7-14-93

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

DIRECTOR — DATE 7/16/93

CHIEF DIVISION OF DEVELOPMENT AND RESEARCH — DATE 7/16/93

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

DIRECTOR — DATE 7/13/93

CHIEF BUREAU OF ENGINEERING — DATE 6/30/93

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

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 — Date 3.31.93

ENGINEER'S CERTIFICATE

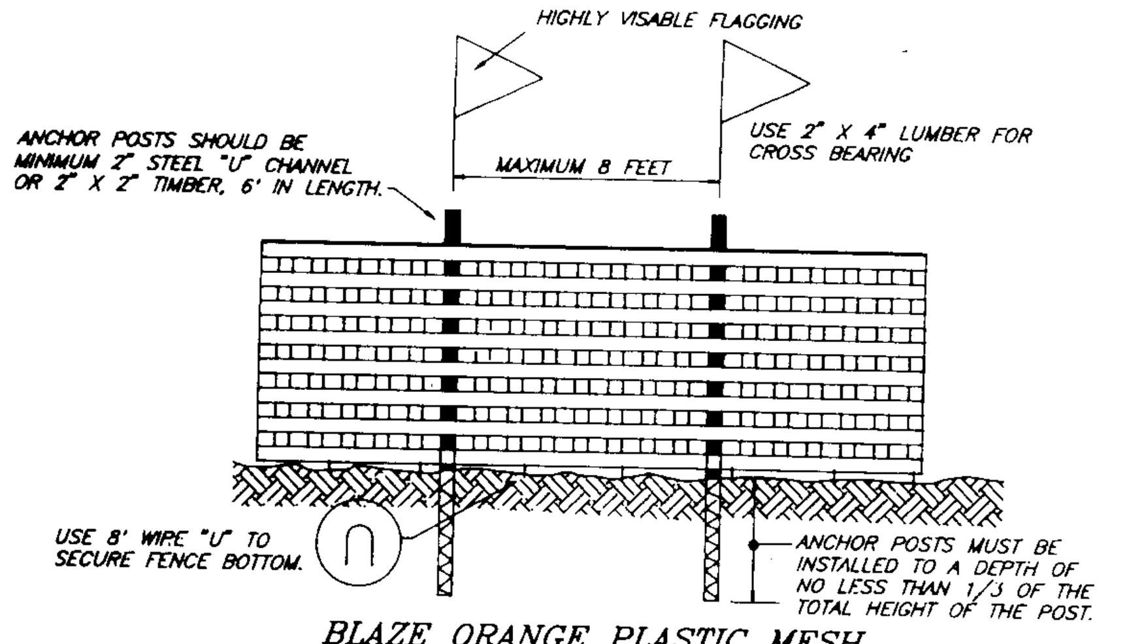
I hereby certify that this plan for Sediment and Erosion Control represents a practical and workable plan based on my personal knowledge of the site condtions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

G. Nelson Clark — Date 4-2-93

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

DESIGNED	SEDIMENT & EROSION CONTROL PLAN	SCALE
KIWM	LOT 96 AND LOTS 111 THRU 120	1" = 30'
DRAWN	**COLUMBIA**	DRAWING
BAL	VILLAGE OF RIVER HILL SECTION 2 AREA 1	2 OF 3
CHECKED	5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO.
KIWM		93-059
DATE	FOR: NUHOMES, INC. 10480 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044	FILE NO.
April 1993		93-059SE

SDP-93-91

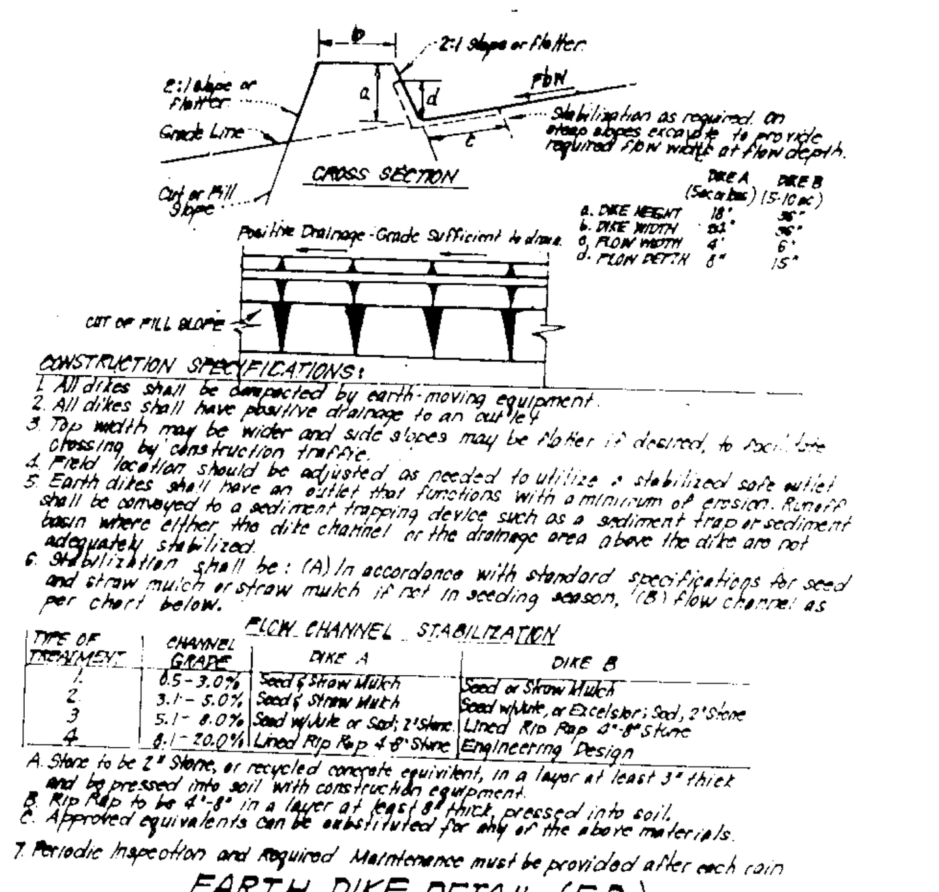


BLAZE ORANGE PLASTIC MESH TYPICAL TREE PROTECTION FENCE DETAIL

NO SCALE

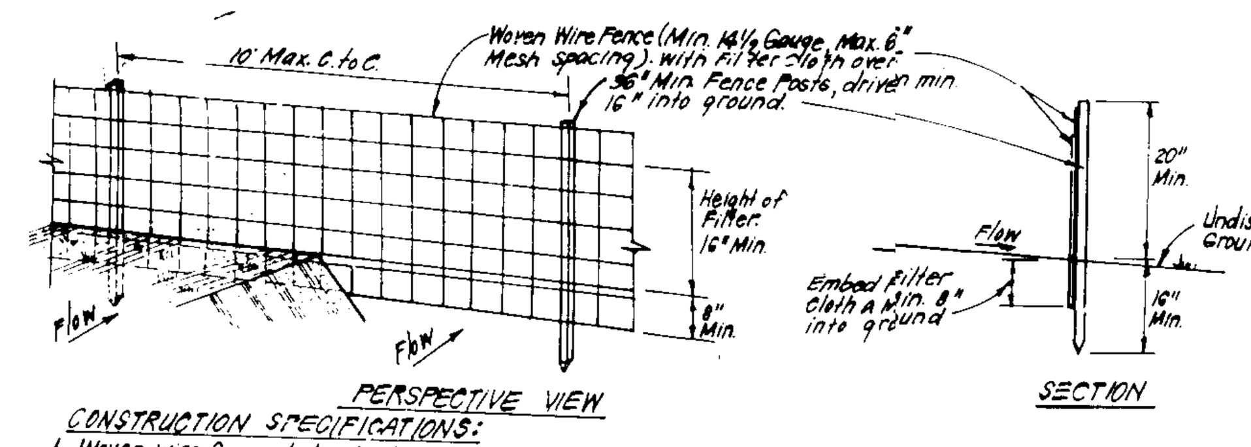
NOTES:

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.



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 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

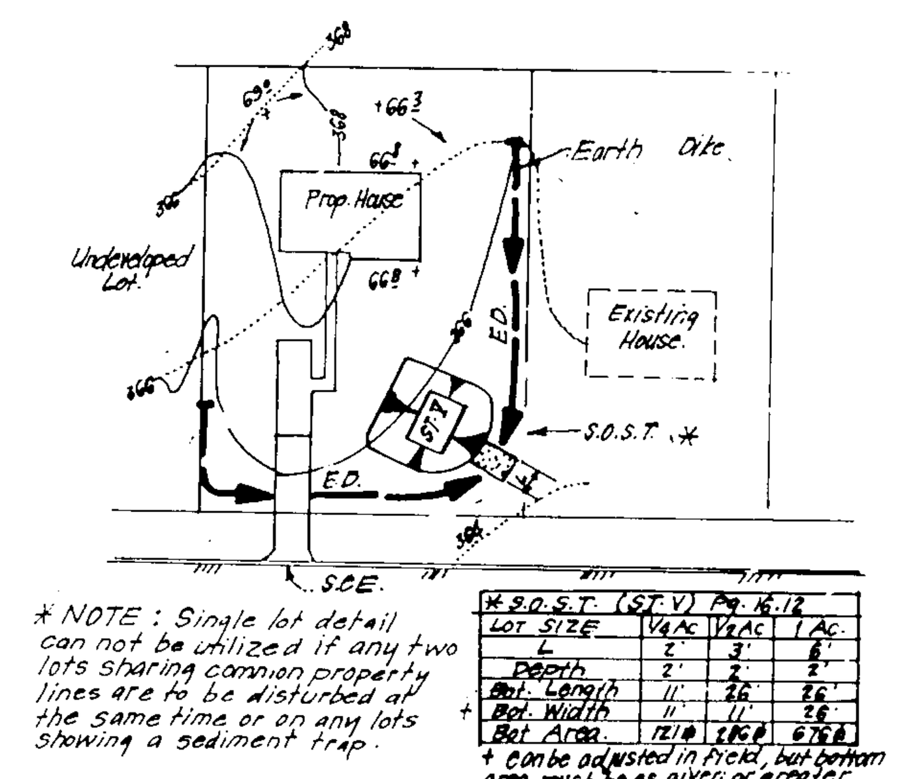
FENCE: Woven wire, 14½ Ga. 6" Max. Mesh Opening

FILTER CLOTH: Filter X, Mirafi 100X, Stabilinka T140N or Approved equal

PREFABRICATED UNIT: Geofab, Envirofence, or Approved equal

SILT FENCE DETAIL (S)

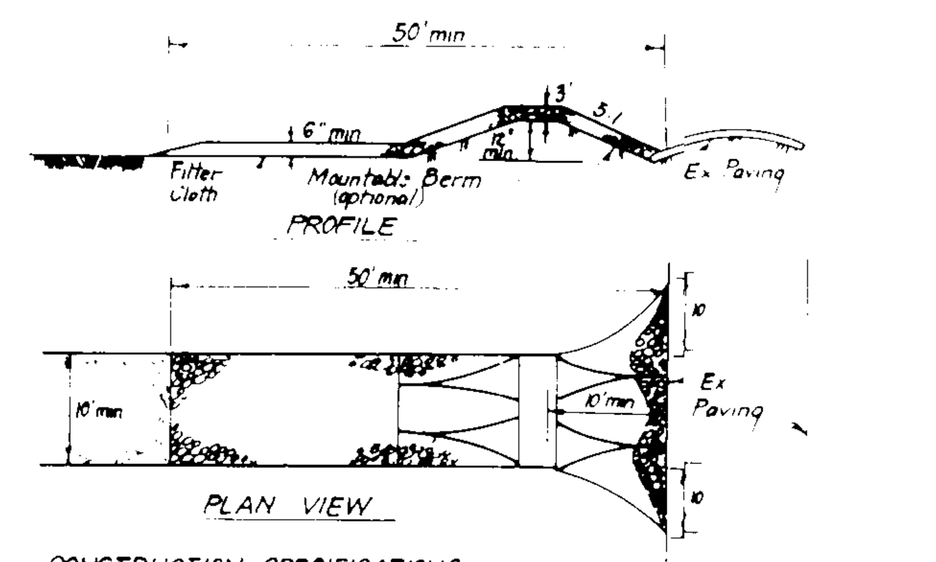
NO SCALE



* 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



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 [illegible] 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/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

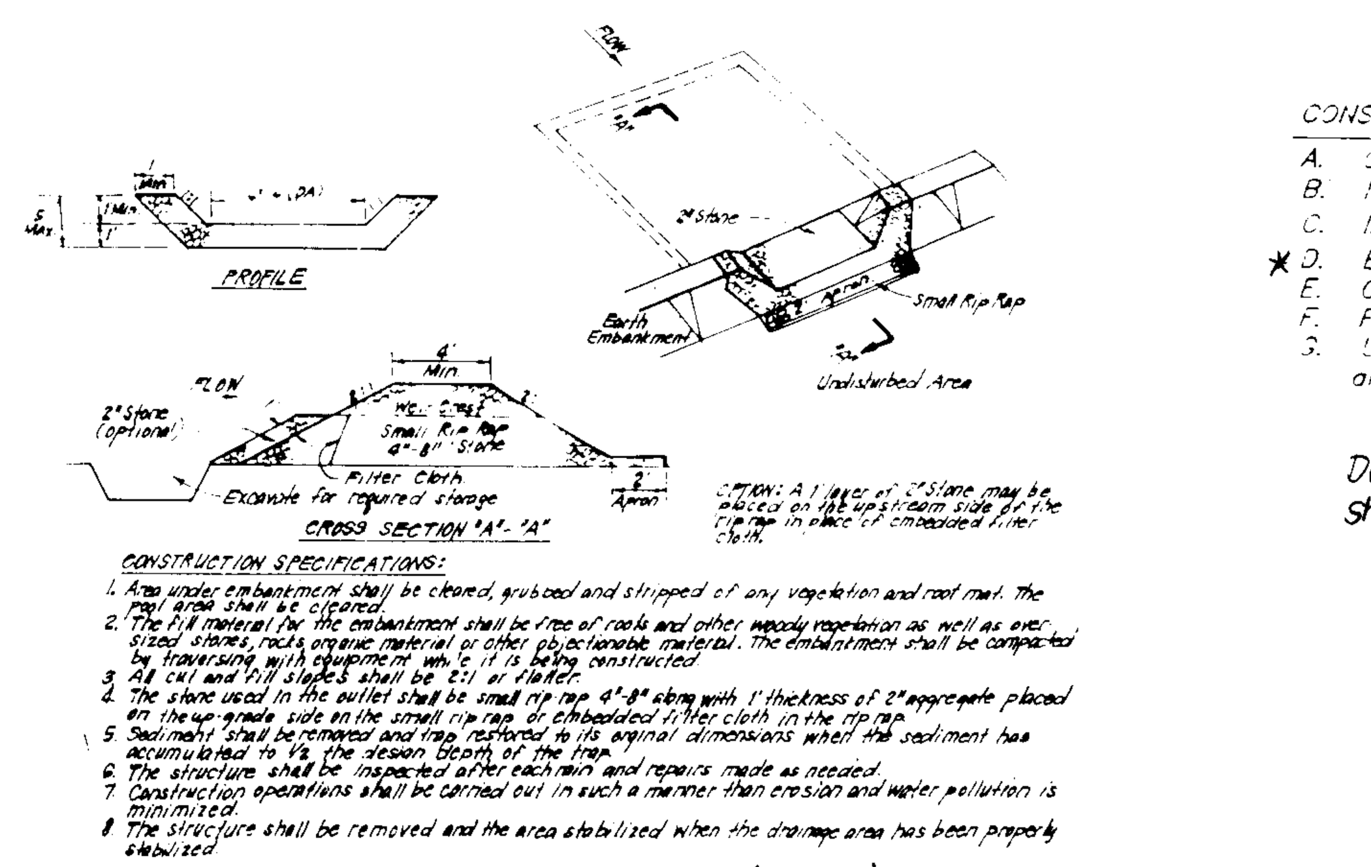
SEEDBED PREPARARTION: Loosen upper three inches of soil by raking, discing,or other acceptable means before seeding, if not previously loosened.

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.



STONE OUTLET SEDIMENT TRAP (S.O.S.T.) ST-V

NO SCALE

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. (313-1810).
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: 3.396 Ac
   - Area Disturbed: 2.88 Ac
   - Area to be roofed or paved: 1.10 Ac
   - Area to be vegetatively stabilized: 1.78 Ac
   - Total Cut: 4227 CY
   - Total Fill: 11,262 CY
   - 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. All pipes to be blocked at the end of each day (see detail this sheet).
13. The total amount of silt fence= 615 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 SEQUENCE:	NO. OF DAYS
A. Obtain grading permit	
B. Install tree protection fence.	7
C. Install sediment and erosion control devices and stabilize.	7
★ D. Excavate for foundations, rough grade and temporarily stabilize.	14
E. Construct structures, sidewalks and driveways.	30
F. Final grade and stabilize in accordance with Stds. and Specs.	60
G. Upon approval of the sediment control inspector, remove sediment and erosion control devices and stabilize.	14
	7

Delay construction on Lot 117, See single lot sediment detail this sheet.

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

[signature] 7-14-93

COUNTY HEALTH OFFICER — DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

[signature] 7/16/93

DIRECTOR — DATE

[signature] 7/16/93

CHIEF DIVISION OF DEVELOPMENT AND RESEARCH — DATE

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

[signature] 7/13/93

DIRECTOR — DATE

[signature] 6/30/93

CHIEF BUREAU OF ENGINEERING — DATE

Reviewed for HOWARD SCD and meets Technical Requirements

[signature] 6/28/93

Signature — Date

US Soil Conservation Service

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

[signature] 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. [illegible] also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary"

Harry A. Bowie — 3.31.93

Signature — Date

ENGINEER'S CERTIFICATE

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

[signature] 4-2-93

G. Nelson Clark — Date

[Seal: STATE OF MARYLAND — G. NELSON CLARK — REGISTERED PROFESSIONAL ENGINEER] 4-2-93

OWNER:
HOWARD RESEARCH AND DEVELOPMENT CORPORATION
10275 Little Patuxent Parkway
Columbia, Maryland 21044

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 PLAN	SCALE 1" = 30'
DRAWN BAL	LOTS 96 AND 111 THRU 120	DRAWING 3 OF 3
CHECKED KIWM	COLUMBIA VILLAGE OF RIVER HILL SECTION 2 AREA 1 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO 93-059
DATE 4/93	FOR: NU-HOMES, INC. 10480 Little Patuxent Pkwy. Columbia, Md. 21044	FILE NO. 93-059SE

SDP 93-91