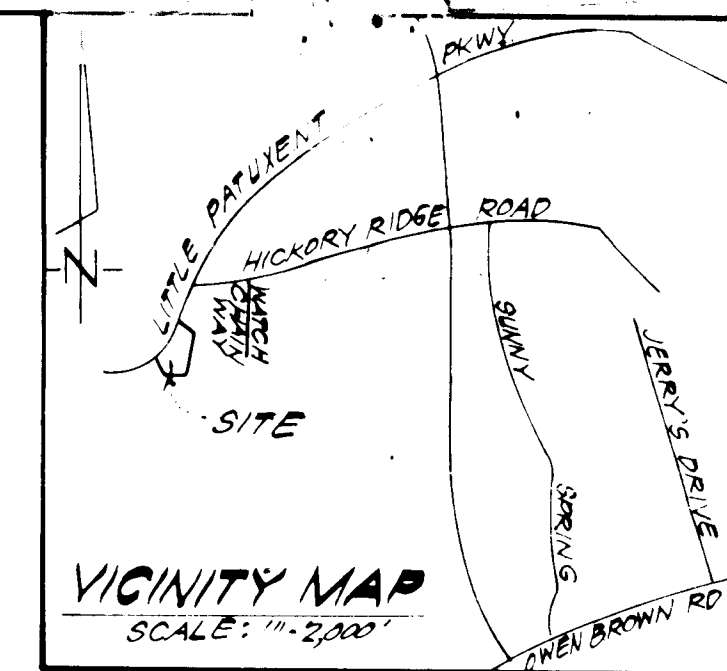
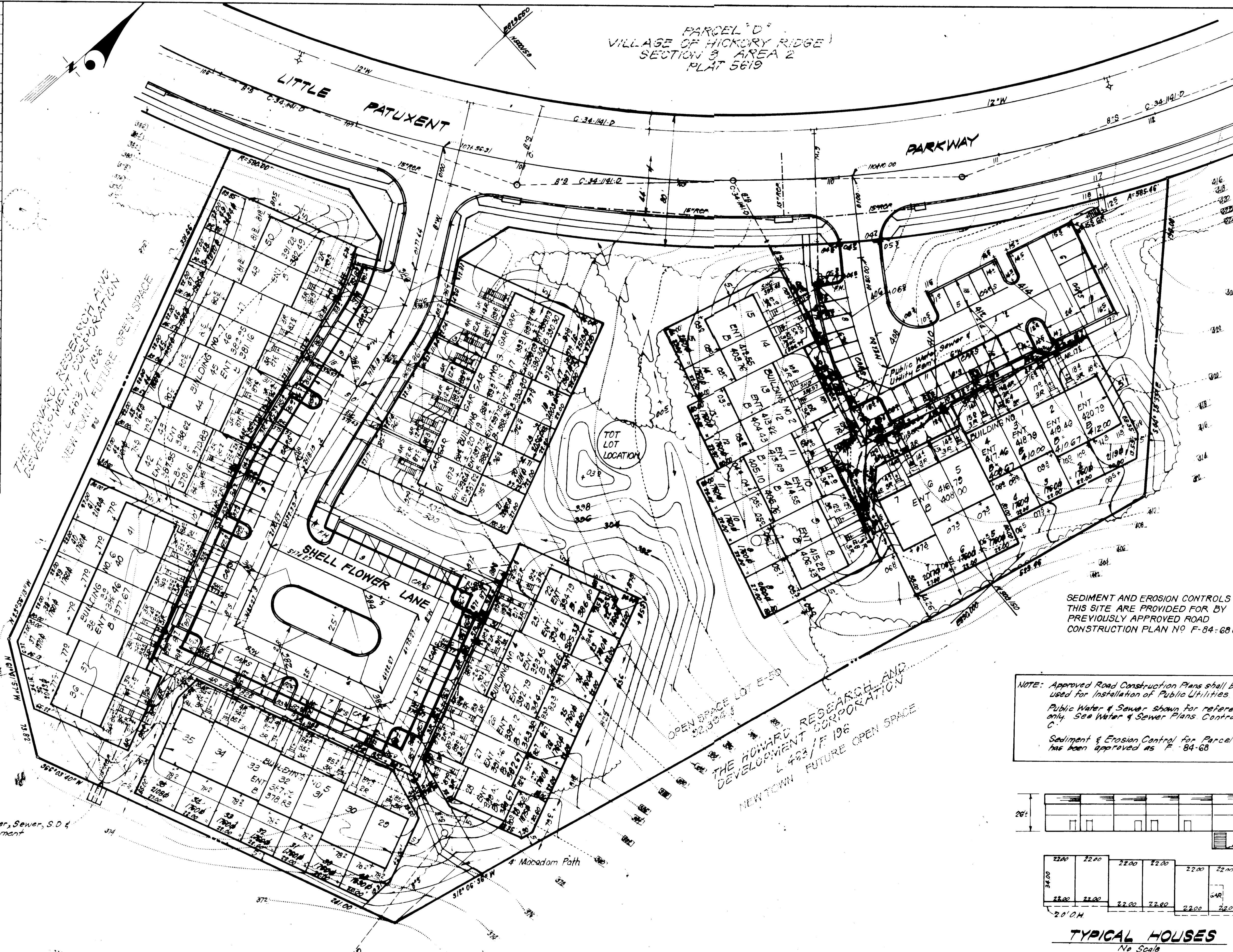


E/1	1502	"	"	"	"
E/2	1503	"	"	"	"
E/3	1504	"	"	"	"
E/4	1505	"	"	"	"
E/5	1506	"	"	"	"
E/6	1507	"	"	"	"
E/7	1508	"	"	"	"
E/8	1509	"	"	"	"
E/9	1510	"	"	"	"
E/10	1511	"	"	"	"
E/11	1512	"	"	"	"
E/12	1513	"	"	"	"
E/13	1514	"	"	"	"
E/14	1515	"	"	"	"
E/15	1516	"	"	"	"
E/16	1517	"	"	"	"
E/17	1518	"	"	"	"
E/18	1519	"	"	"	"
E/19	1520	"	"	"	"
E/20	1521	"	"	"	"
E/21	1522	"	"	"	"
E/22	1523	"	"	"	"
E/23	1524	"	"	"	"
E/24	1525	"	"	"	"
E/25	1526	"	"	"	"
E/26	1527	"	"	"	"
E/27	1528	"	"	"	"
E/28	1529	"	"	"	"
E/29	1530	"	"	"	"
E/30	1531	"	"	"	"
E/31	1532	"	"	"	"
E/32	1533	"	"	"	"
E/33	1534	"	"	"	"
E/34	1535	"	"	"	"
E/35	1536	"	"	"	"
E/36	1537	"	"	"	"
E/37	1538	"	"	"	"
E/38	1539	"	"	"	"
E/39	1540	"	"	"	"
E/40	1541	"	"	"	"
E/41	1542	"	"	"	"
E/42	1543	"	"	"	"
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E/45	1546	"	"	"	"
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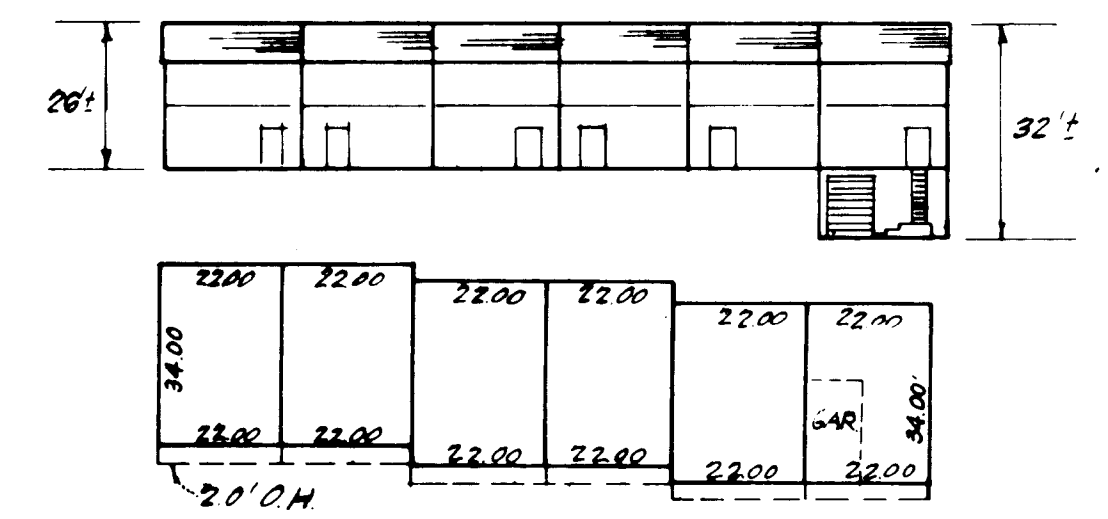
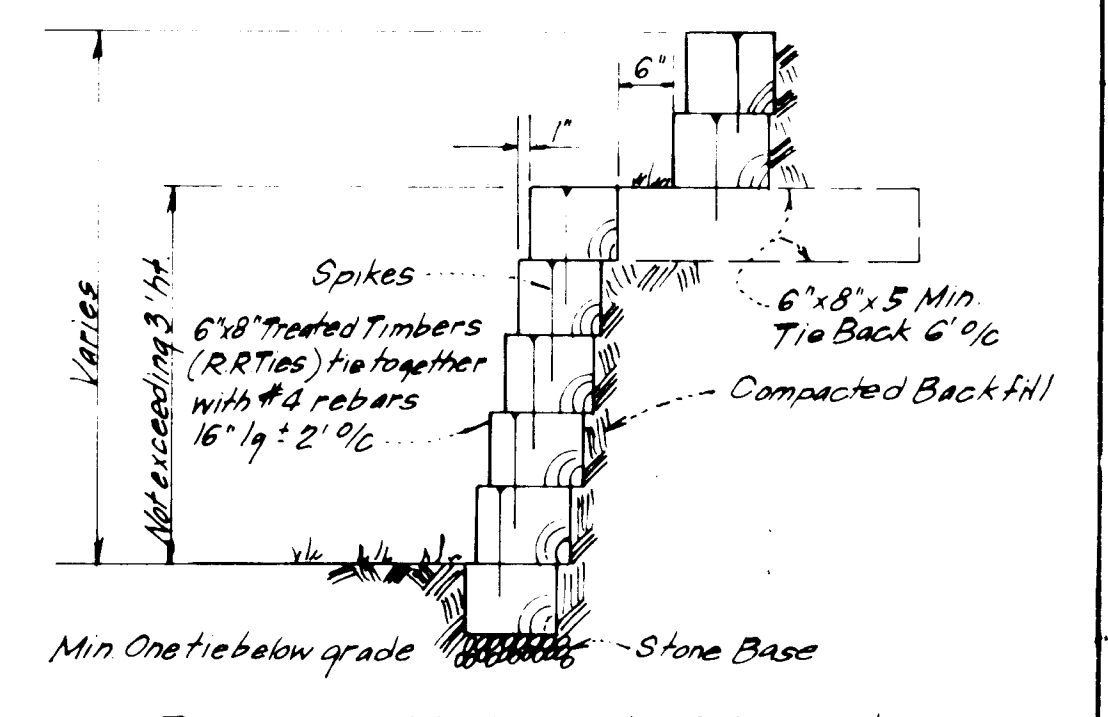


- GENERAL NOTES :**
- The Land included in this plan is Zoned: New Town S.F.A.
  - All coordinates shown hereon are based on the Maryland State Grid System.
  - The area covered is located on Tax Map #35.
  - The total area of this plan is 4.889 Acres.
  - All roadways are public & existing.
  - Any damage to county owned rights of way shall be corrected at the developer's expense.
  - Number of Units shown: 49
  - Number of Parking Spaces provided: 98, spaces required: 98
  - Building Coverage = 49,964 sq. ft. (area of Blotgs) = 21.9%  
186,742 sq. ft. (area of Lots & Open Space)
  - The lots shown are covered by Final Development Plan Phase 181A, Part 1.

- LEGEND:**
- Contour Interval 2 Ft
  - Existing Contour
  - Proposed Contour 400
  - Spot Elevation +157
  - Direction of Drainage
  - Existing Trees to be retained

SEDIMENT AND EROSION CONTROLS FOR THIS SITE ARE PROVIDED FOR BY PREVIOUSLY APPROVED ROAD CONSTRUCTION PLAN NO F-84-68C

NOTE: Approved Road Construction Plans shall be used for installation of Public Utilities.  
Public Water & Sewer shown for reference only. See Water & Sewer Plans Contract C.  
Sediment & Erosion Control for Parcel "E" has been approved as F-84-68



SUBDIVISION NAME	VILLAGE OF HICKORY RIDGE	SECT. AREA	3.12	LOT/PARCEL	E 14 E 57
PLAT NO. & DATE	5734 10	PLANNING ZONE	5TH	PLANNING DISTRICT	5TH
WATER CODE	I-15	SEWER CODE	659.3000		

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT  
 COUNTY HEALTH OFFICER: [Signature] DATE: 2/22/84  
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
 PLANNING DIRECTOR: [Signature] DATE: 2-24-84  
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIRECTOR: [Signature] DATE: 11-84  
 CHIEF BUREAU OF ENGINEERING: [Signature] DATE: 2-16-84

APPROVED  
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION  
 HOWARD COUNTY, MARYLAND  
 DATE: 12-13-83  
 [Signature]

Owner: HOWARD RESEARCH & DEVELOPMENT CORP.  
 The Rouse Company  
 Columbia, Maryland, 21044

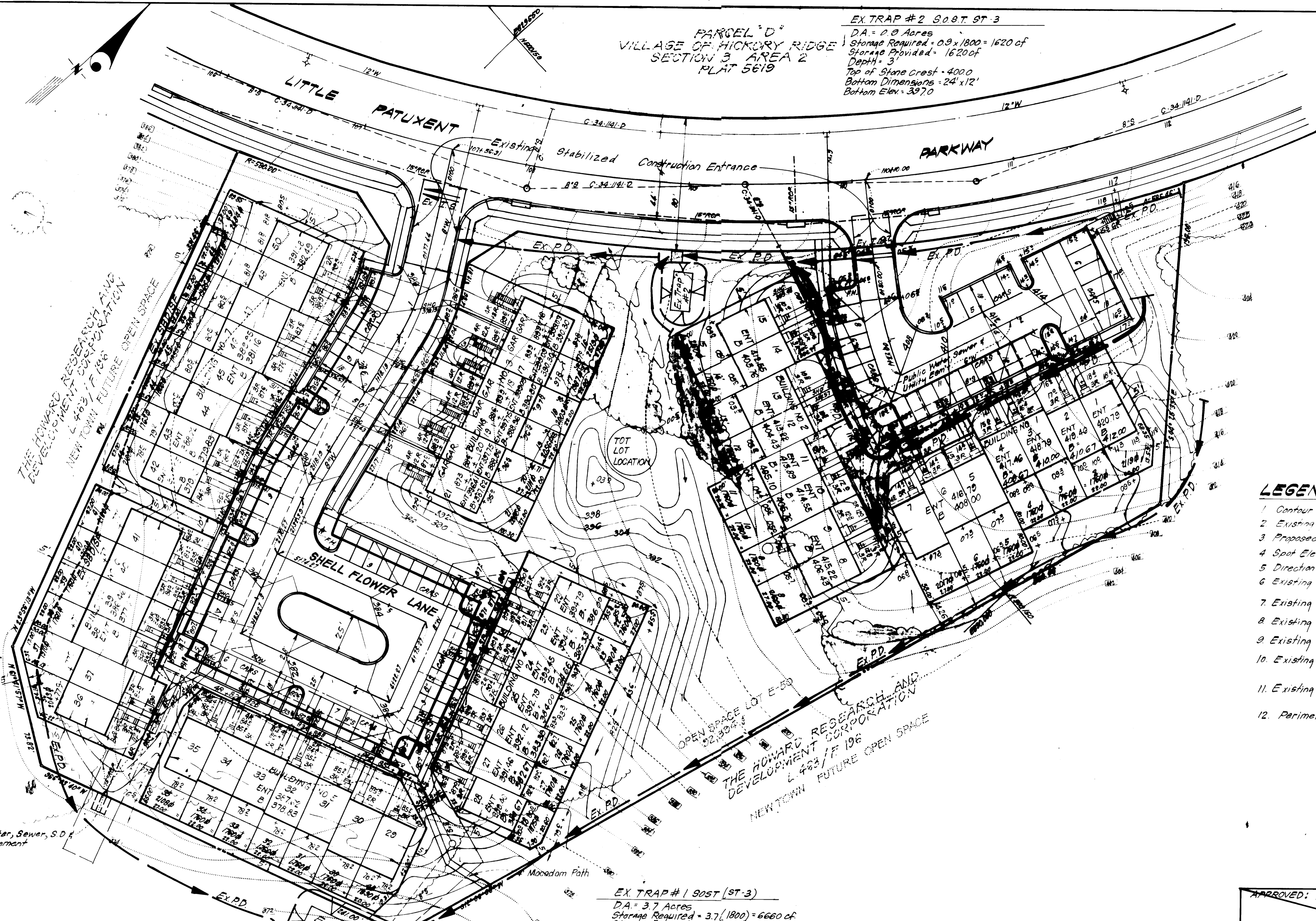
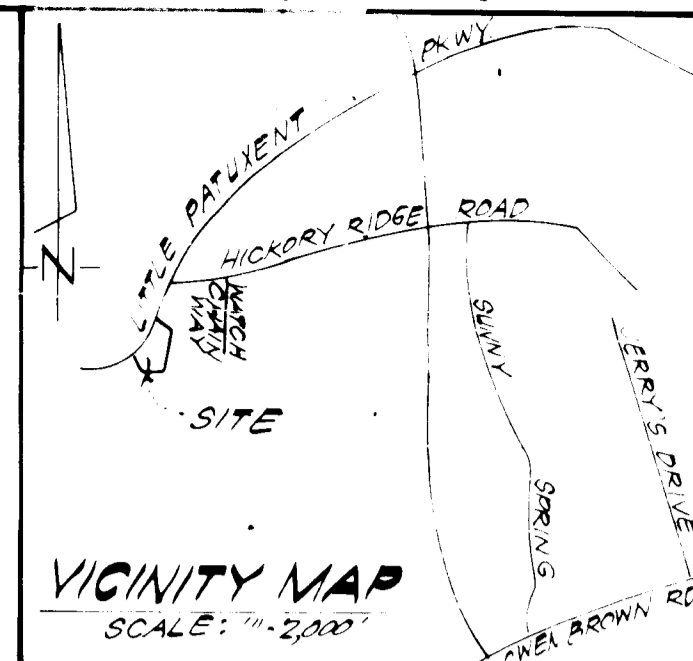
**CFE CLARK • FINEFROCK & SACKETT**  
 ENGINEERS • PLANNERS • SURVEYORS  
 11315 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20904 • (301) 593-3408

DESIGNED	J.M.E.	SITE DEVELOPMENT PLAN	LOPSEI THRU E-50	SCALE	1/4" = 30'
DRAWN	K.I.W.	<b>COLUMBIA</b>		DRAWING	1054
CHECKED	V.L.B.	VILLAGE OF HICKORY RIDGE		JOB NO.	83-065
	J.M.E.	SECTION 3 AREA 2		FILE NO.	83-065-X
DATE	10-28-83	FOR: Clary's Forest Joint Venture Three Lakesfront North Block, Suite 200 Columbia, Maryland, 21044			

SDP-84-118.

PARCEL 'D'  
VILLAGE OF HICKORY RIDGE  
SECTION 3 AREA 2  
PLAT 5619

EX TRAP #2 SOST ST-3  
DA = 0.8 Acres  
Storage Required = 0.9 x 1800 = 1620 cf  
Storage Provided = 1620 cf  
Depth = 3'  
Top of Stone Crest = 400.0  
Bottom Dimensions = 24' x 12'  
Bottom Elev = 397.0



- LEGEND:**
- 1. Contour Interval 2 Ft
  - 2. Existing Contour
  - 3. Proposed Contour 400
  - 4. Spot Elevation +15.7
  - 5. Direction of Drainage
  - 6. Existing Trees to be retained
  - 7. Existing Perimeter Dike Ex. P.D.
  - 8. Existing Straw Bale Dike/Silt Fence Ex. SBD/SF
  - 9. Existing Interceptor Swale Ex. I.S.
  - 10. Existing Stabilized Construction Entrance
  - 11. Existing Sediment Trap
  - 12. Perimeter Dike P.D.

EX TRAP #1 SOST (ST-3)  
DA = 3.7 Acres  
Storage Required = 3.7 (1800) = 6660 cf  
Storage Provided = 6660 cf  
Depth = 4'  
Top of Stone Crest = 372.0  
Bottom Dimensions = 47.5' x 22'  
Bottom Elev = 368.0

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT  
James M. Boyd, M.D. / M.D. / M.D.  
COUNTY HEALTH OFFICER 3/8  
DATE 2/23/84

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING  
PLANNING DIRECTOR  
DATE 2-24-84

APPROVED DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION  
CHIEF DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION  
DATE 2-24-84

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
DIRECTOR  
DATE 2-17-84

CHIEF BUREAU OF ENGINEERING  
DATE 2-16-84

APPROVED  
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE 12-13-83

Reviewed for: Howard S.C.D.  
Name  
and meets Technical Requirements  
Signature Date 2/15/84  
U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
Approved Date 2/15/84

DEVELOPER-BUILDER'S CERTIFICATE  
I hereby 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.  
Signature of Developer/Builder Date 2/7/84  
B. James Greenfield

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 Date 2-7-84



APPROVED: Department of Public Works  
Chief, Bureau of Engineering Date  
APPROVED: Howard County Office of Planning and Zoning  
Chief, Division of Land Development & Zoning Administration Date

CLARK • FINEFROCK & SACKETT  
ENGINEERS • PLANNERS • SURVEYORS  
11315 LOCKWOOD DRIVE (301) 593-3400

DESIGNED J.L.S. SCALE 1"=30'  
DRAWN K.I.W. DRAWING 2"=4'  
CHECKED V.L.B. JOB NO. 83-065  
J.M.E. FILE NO. 83-1655E  
DATE 2-7-84

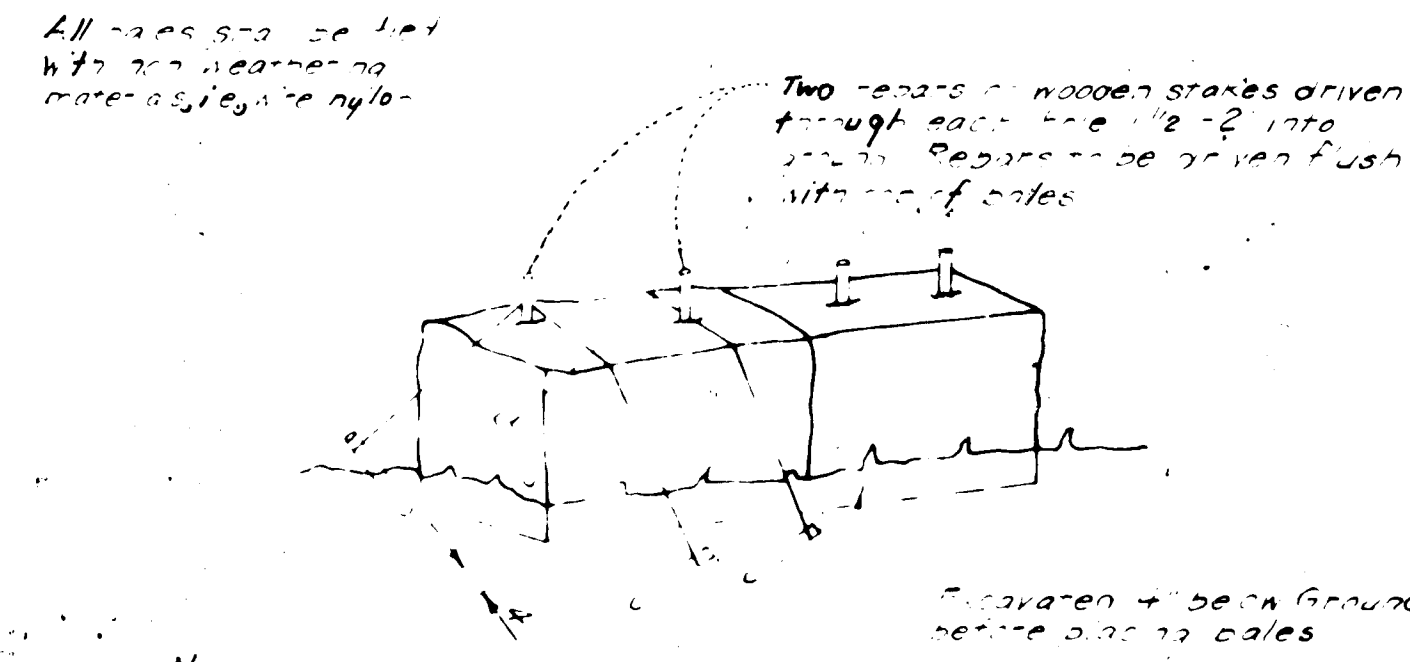
SDP-84-118c  
SEDIMENT & EROSION CONTROL PLAN  
LOTS 51 & 52 E-50  
COLUMBIA  
VILLAGE OF HICKORY RIDGE  
SECTION 3 AREA 2  
5TH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
FOR: Clary's Forest Joint Venture  
Three Lakelant North Blvd., Suite 201  
Columbia, Maryland 21044

Owner: HOWARD RESEARCH & DEVELOPMENT CORP.  
The Rouse Company  
Columbia, Maryland, 21044

SDP-84-118c

**GENERAL NOTES**

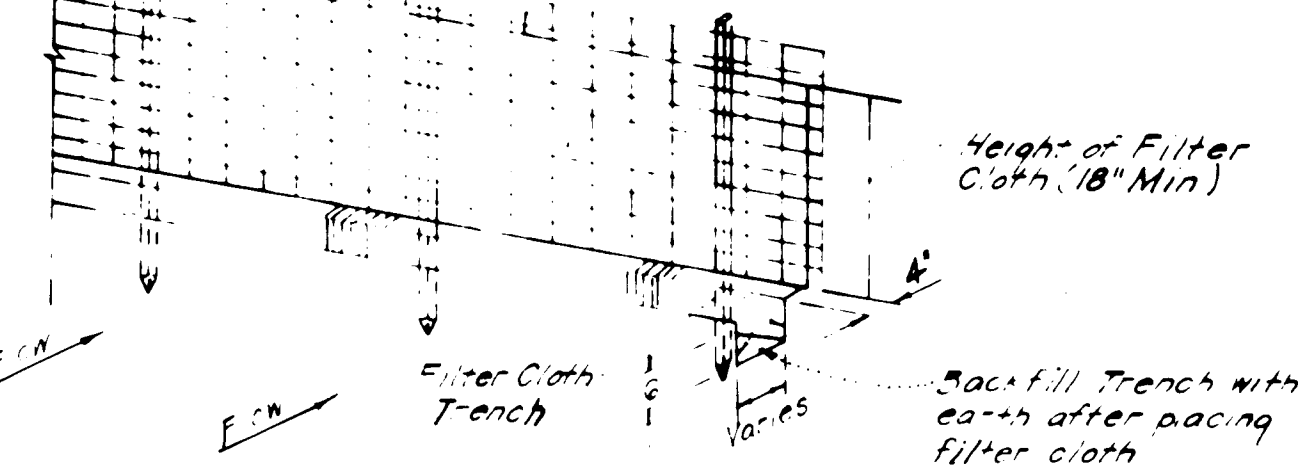
- Grading Permits shall be obtained prior to installation of Sediment Control & Grading.
- All Sediment and Erosion Control Measures will be installed and stabilized according to this plan prior to any other grading, clearing or disturbance of the existing surface of the site. See note #16 for stabilization except that the seed mixture will be applied the applied at a rate of 14 lbs/1000 sq ft.
- Notify the Bureau of Inspections and Permits at least 24 hrs before starting any work.
- All Sediment Control Practices to conform to the "Standards and Specifications for Soil Erosion and Sediment Control in Developing Areas" and shall be adjusted, for more a full field conditions.
- Stabilization of Disturbed ground to be done as soon after construction as possible.
- All disturbed area to be stabilized in accordance with the following Seed Mixtures:
  - Seed - certified 85% germination applied at the rate of 3.55/1000 sq ft. Mixture - Kentucky Blue, 20% chewing Fescue, 20% Kentucky 3 and 20% annual ryegrass.
  - Fertilizer - 10-10-10 applied at a rate of 23 lbs/1000 sq ft. Ground Agricultural Lime - Dolomitic Lime applied at a rate of 50 lbs/1000 sq ft.
  - Mulch - Weed free grain straw applied at a rate of 70-80 lbs/1000 sq ft. - Mulch shall be secured to the ground by any approved method, e.g. sod stakes, chemical fasteners, etc.
  - All Seed used shall be Maryland State Certified.
- All structural Sediment Control Measures are to remain in place until permission for their removal has been obtained from the Bureau of Inspections and Permits.
- On-Site Inspection and Maintenance of all Sediment Control Measures including clean out of Sediment Traps and Dikes, and proper establishment of a permanent vegetative measures will be the responsibility of the developer or his representative on the site, on a continuing day to day basis.
- It will be the developer's responsibility to provide additional Sediment & Erosion Control Devices to protect stabilized areas during construction.
- The Contractor shall keep all public roads free of sediment deposits left from traffic leaving construction site.
- Approval of this plan is conditional upon the approval of Sediment Control Plan of the off-site waste or borrow area prior to the import of any borrow or export of waste from this site.
- All pipes to be blocked at the end of each day. See detail this sheet.
- Total Amount of Straw Bales or Silt Fence shown = 300 - L F.
- SITE ANALYSIS:**
  - Total Area: 4.889 Acres
  - Area to be Roofed: 2.866 Acres
  - Area to be Paved: 1.109 Acres
  - Area to be Seeded: 2.414 Acres
  - Area Undisturbed: 2.500 Acres
- CONSTRUCTION SEQUENCE:**
  - Cleanout and repair existing sediment & erosion control measures shown and construct proposed Perimeter Dike.
  - Excavate for Foundations.
  - Construct Buildings.
  - Final grade and construct sidewalks.
  - Stabilize all other disturbed areas on site in accordance with standards & specs.
  - Remove Sediment & Erosion Control Measures after all areas draining to them have been stabilized.



Note: In lieu of the use of rebar, each strain bale may be fastened to ground with pipe (4" dia) and wire or nylon as shown above.

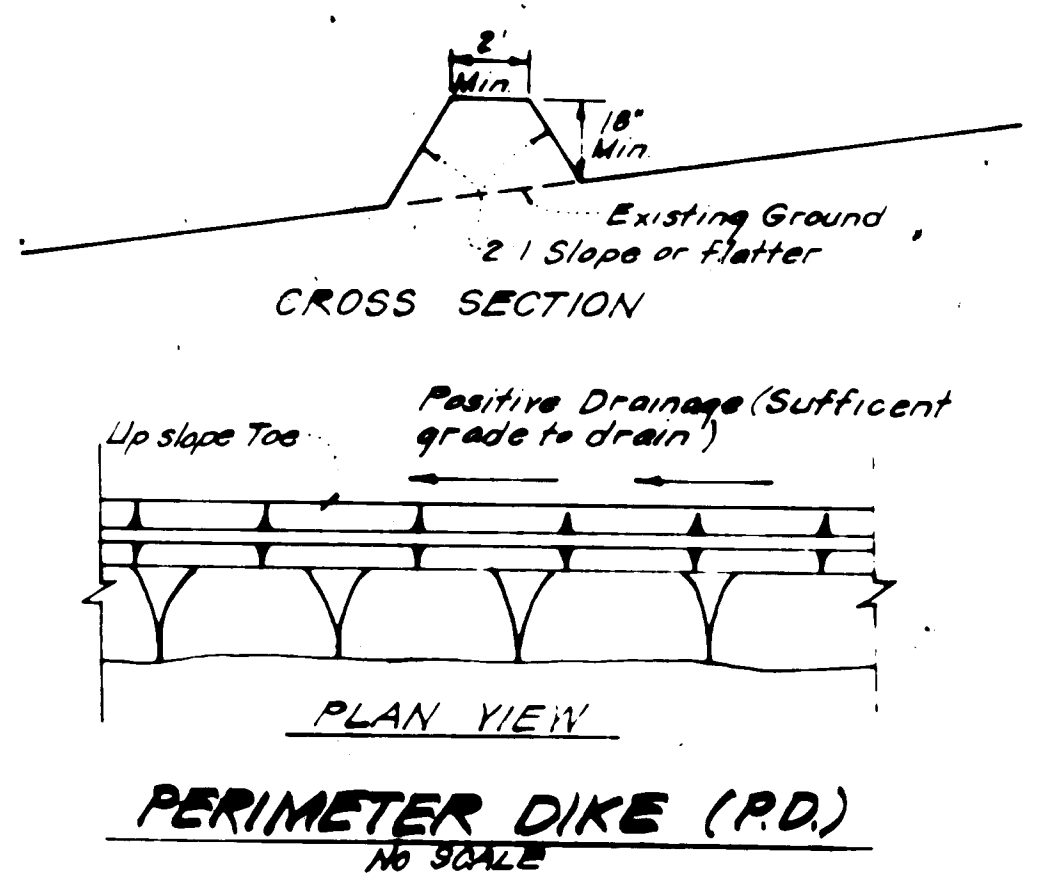
**STRAIN BALE DIKE DETAIL (SBD)**  
NO SCALE

Woven wire fence - Min. 4 gauge, 6" Max. spacing.  
36" Min. Metal Horiz. Duty Fiber Glass - equal, Fence Posts Driven into ground in min. 14" dia. Filter Cloth (Mirafi 21-3, Poly Filter - X or approved equal).

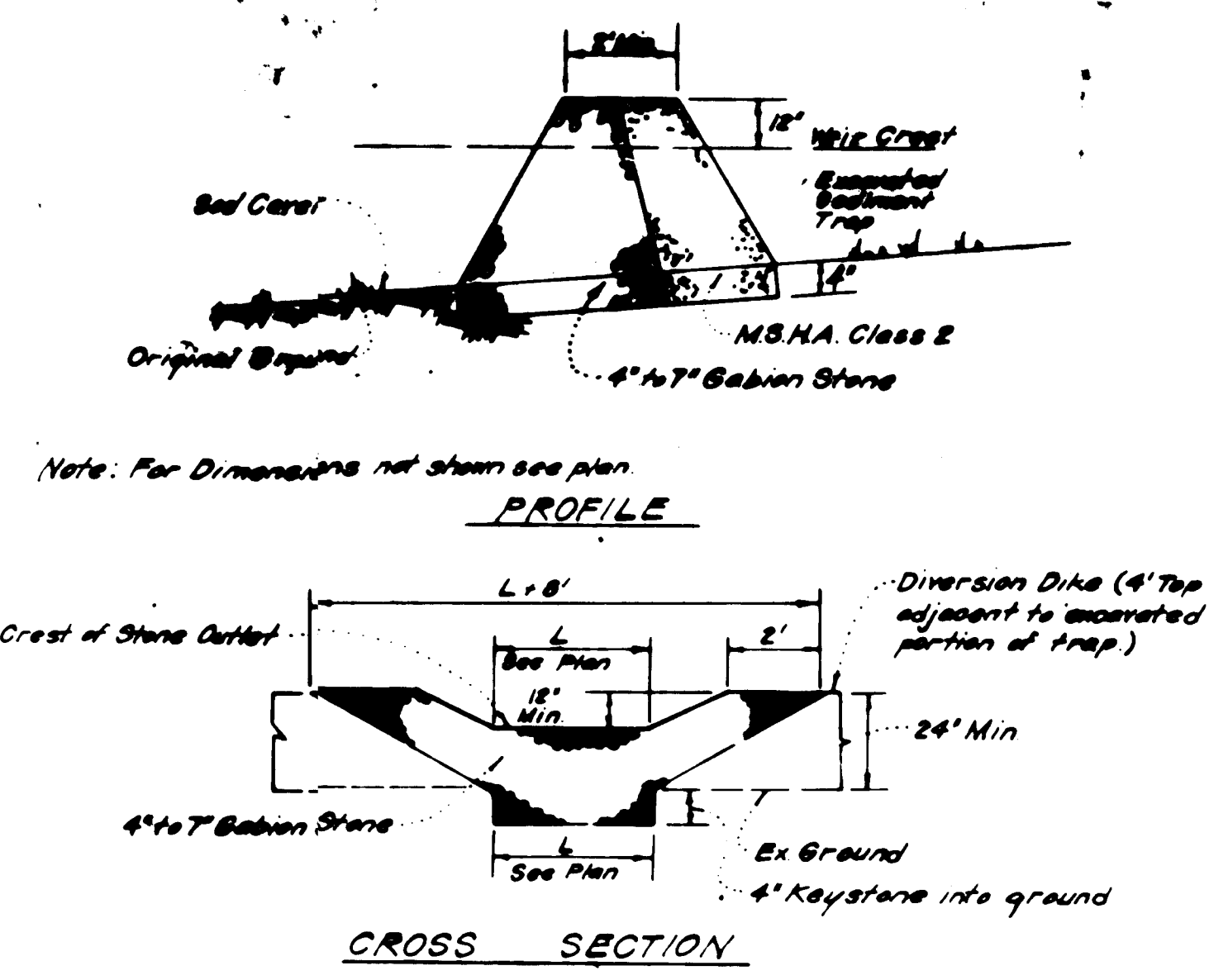


Notes: 1. Silt Fence to be fastened securely to fence posts by use of wire ties. 2. Filter Cloth to be fastened securely to Woven Wire by use of wire ties spaced every 24" x 24".

**SILT FENCE DETAIL (SF)**  
NO SCALE

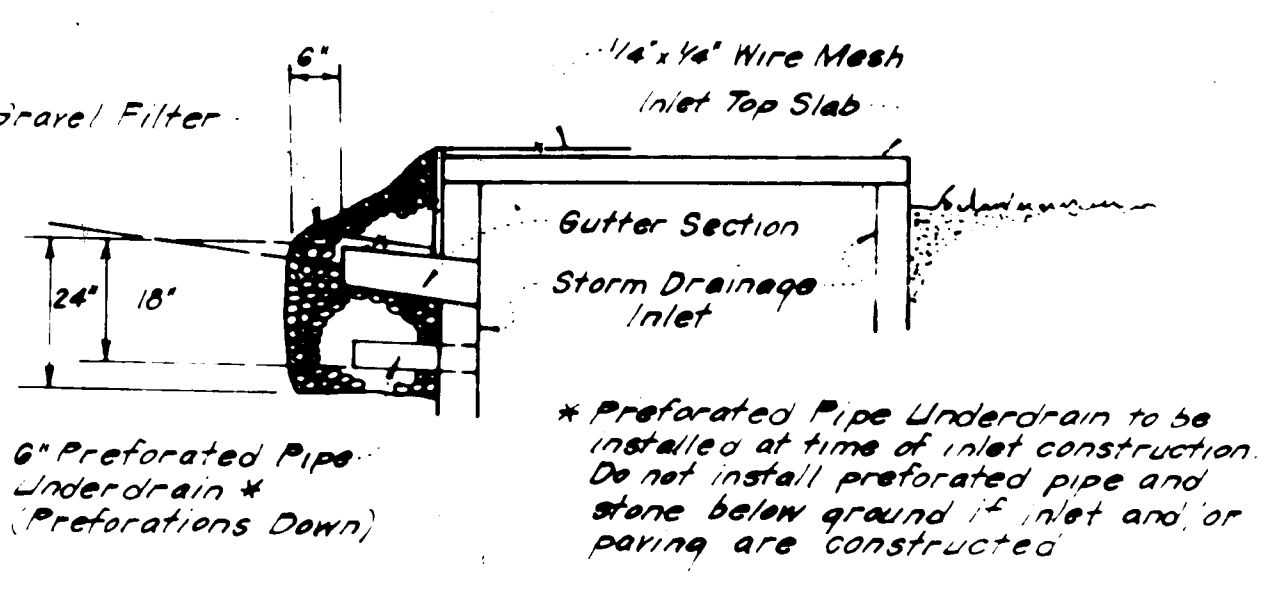
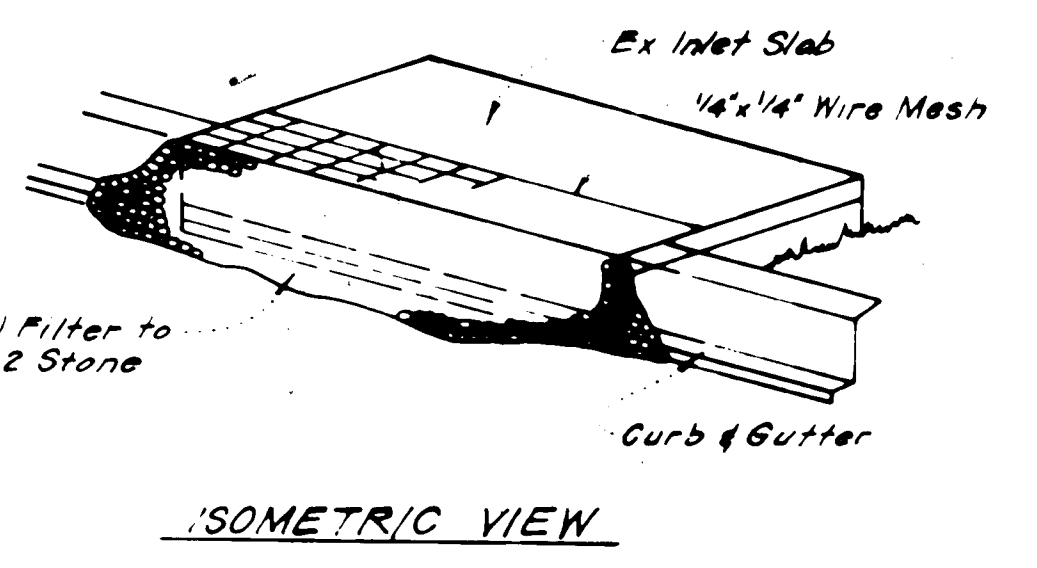


**PERIMETER DIKE (P.D.)**  
NO SCALE

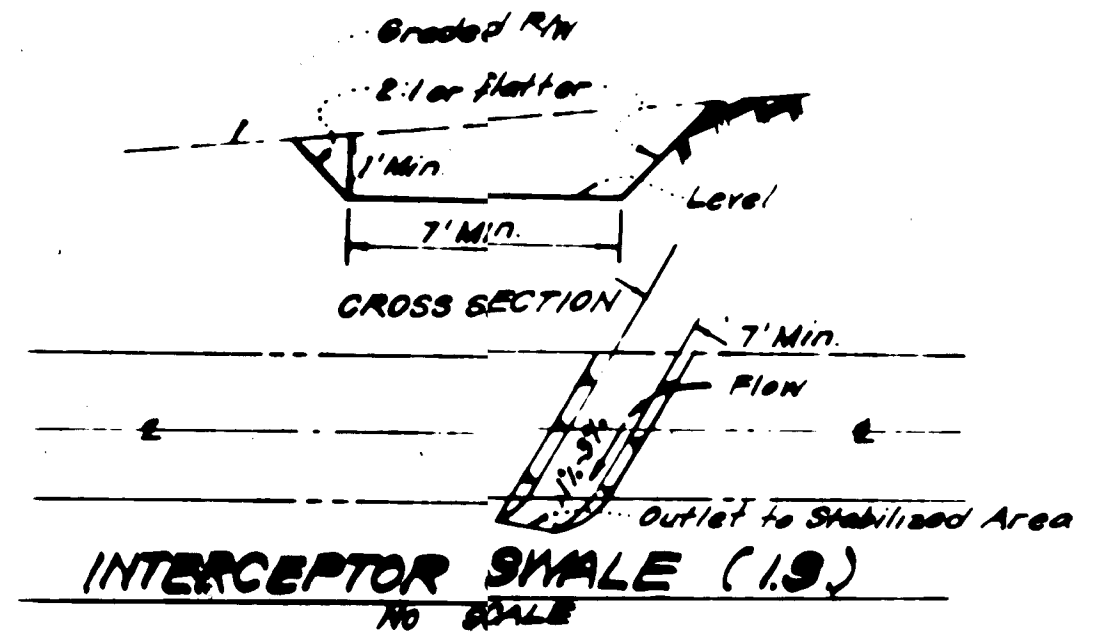


Notes: 1. Sediment Trap to be cleaned out when sediment reaches a level of 1 ft. below crest of stone outlet. 2. Bottom of Sediment Trap to be level and constructed to the dimensions shown on plan. 3. Stone Outlet to be constructed through diversion dike adjacent to excavated trap.

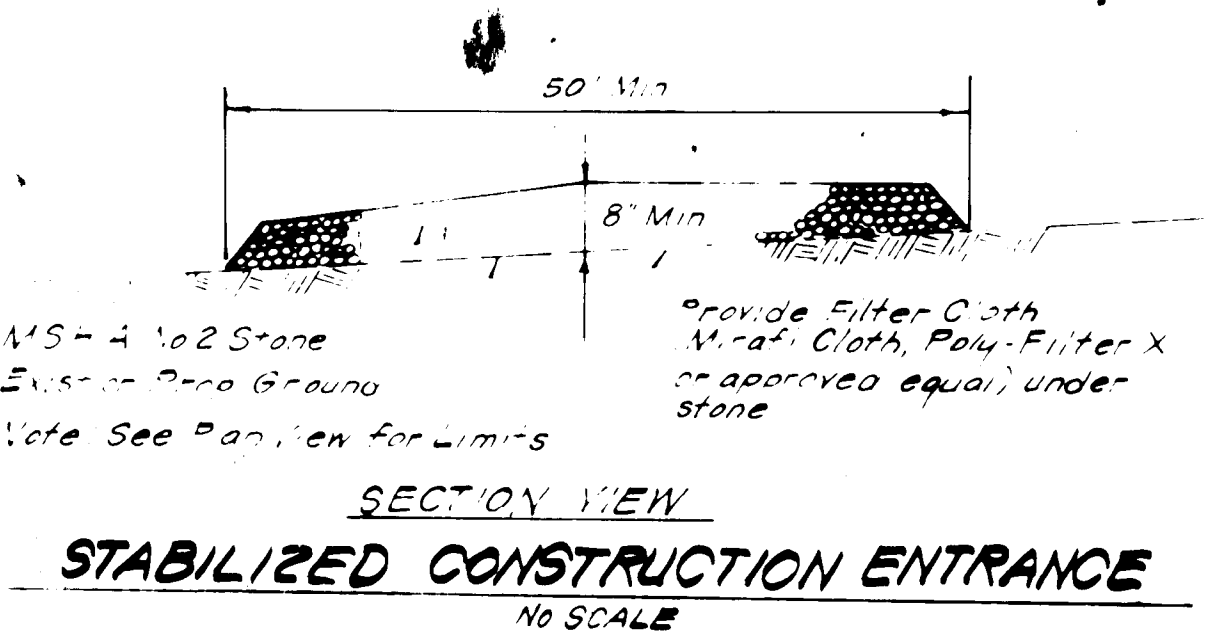
**DETAIL OF STONE FILTER OUTLET FOR SEDIMENT TRAP**  
NO SCALE



**STONE FILTER INLET PROTECTION (S.F.I.P.)**  
NO SCALE



**INTERCEPTOR SMAILE (I.S.)**  
NO SCALE



**STABILIZED CONSTRUCTION ENTRANCE**  
NO SCALE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT  
 COUNTY HEALTH OFFICER: [Signature] DATE: 2/23/04  
 APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
 PLANNING OFFICER: [Signature] DATE: 2-24-04  
 APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 CHIEF OF BUREAU OF ENGINEERING: [Signature] DATE: 2-24-04

APPROVED  
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION  
 HOWARD COUNTY, MARYLAND  
 DATE: 12-13-93

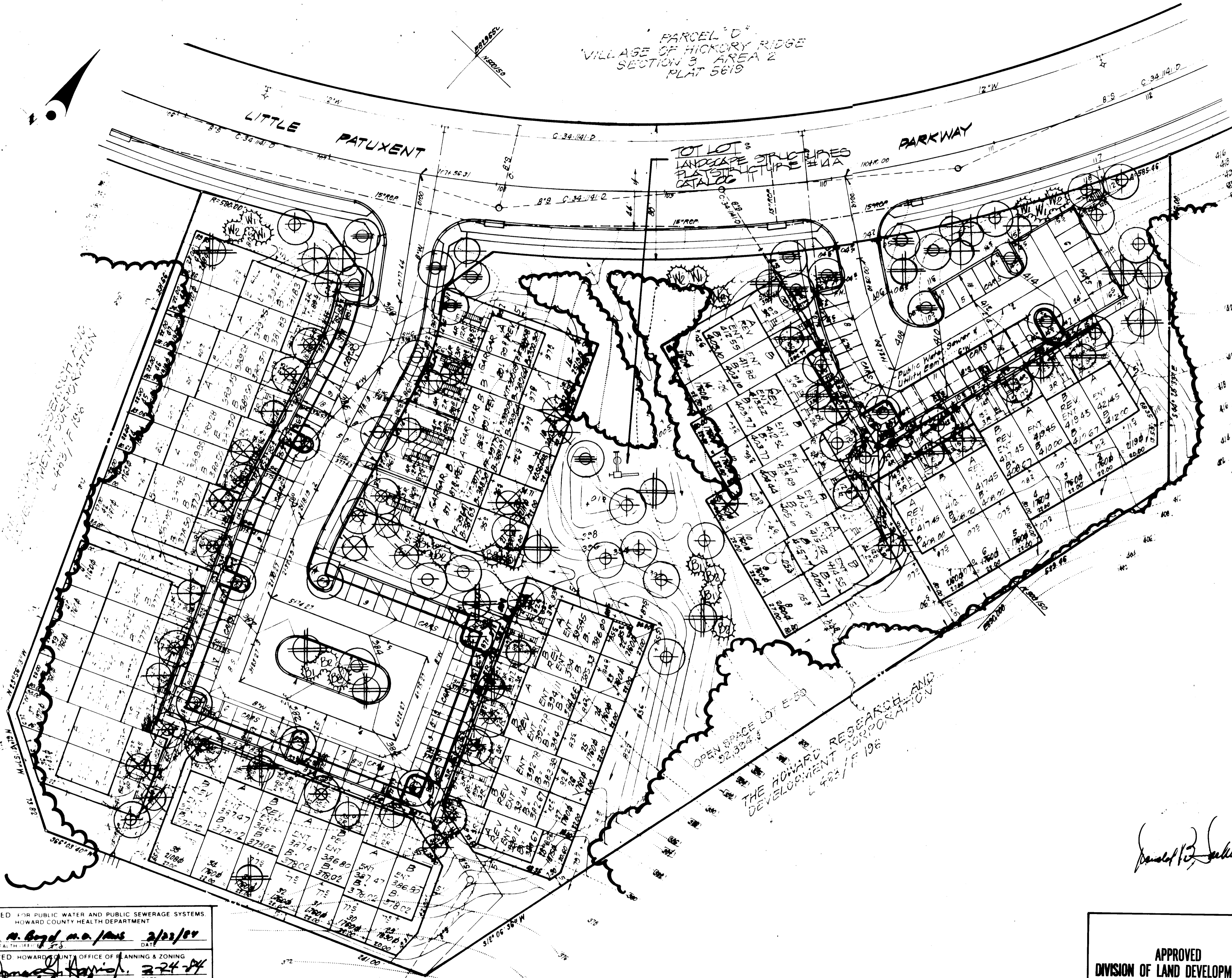
Reviewed for Howard SCD  
 Name: [Signature]  
 Title: [Signature]  
 U.S. Soil Conservation Service  
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 Approved: [Signature] DATE: 2/15/04

DEVELOPER'S/BUILDER'S CERTIFICATE  
 I hereby 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.  
 B. James Urbanfield DATE: 2/7/04

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 DATE: 2-7-04



OWNER: The Howard Research & Development Corp.  
 10275 Little Mykonos Parkway  
 Columbia, Md 21044  
 APPROVED: Department of Public Works  
 Chief, Bureau of Engineering  
 APPROVED: Howard County Office of Planning and Zoning  
 Chief, Division of Land Development & Zoning  
 CLARK • FINEFROCK & SACKETT  
 ENGINEERS • PLANNERS • SURVEYORS  
 11315 LOCKWOOD DRIVE  
 CLARKSPRING, MARYLAND 21034  
 DESIGNED: JLS  
 DRAWN: V.L.B. / K.W.  
 CHECKED: JLS  
 DATE: 2-7-04  
 SEDIMENT & EROSION CONTROL PLAN  
 LOTS E-1 THRU E-50  
 A RESUBDIVISION OF PARCEL 151  
 COLUMBIA  
 VILLAGE OF NICKONY RIDGE  
 SECTION 5 AREA 2  
 SITE SELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 FOR: CLARY'S FOREST JOINT VENTURE  
 Three Late Point North Drive, Suite 200  
 Columbia, Md 21044  
 SCALE: As Shown  
 DRAWING: 3 OF 4  
 JOB NO: 03-065  
 FILE NO: 03-065B-E  
 SDP-84-118



**PLANT SCHEDULE**

KEY	PLANT NAME	SIZE	QUANT	REMARKS
⊕	RED HIPPURID OF SOFT STOOP GRAFT VASE	22" DIA 12' HGT	21	3"22 HEAVY HEADS
⊕	ELKOVA'S VILLAGE GREEN VILLAGE GREEN GLOBES		16	
⊕	GLEND PLASTIC PL OAK		11	
⊗	LIQUIDAMBER STRAETHIA SWEETGUM		14	
⊕	PINKS O KANZAN KANZAN HEPT	2.2' DIA 8'0" HT	16	
⊕	WILD SNOWGLOBE SNOWGLOBE GLOBE		18	
⊕	WILD THUMB PINK LEAF CAMELITE		6	
⊗	ORNID FLORA FLOWERING DOGWOOD		12	✓
W1	PINKS OAKLEED EASTERN WHITE PINE	60 HT.	5	3"22 HEAVY
W2	PINKS OAKLEED EASTERN WHITE PINE	78 HT.	4	
B1	PINKS THUNDER CAPANESE BLACK PINE	60 HT.	5	
B2	PINKS THUNDER CAPANESE BLACK PINE	78 HT.	6	✓

NOTE:  
 1. COMPASSION HAS BEEN LOCATED IN ALL PLANTED SPACES.  
 2. ALL PLANTING SHALL BE DONE IN ACCORDANCE WITH COLUMBIA LAND PLANTING DEPARTMENT.  
 3. SUBSTITUTION MAY BE PERMITTED WITH THE APPROVAL OF THE ARCHITECT.  
 4. SEE SHEET

*Donald B. Sackett*

Owner: HOWARD RESEARCH & DEVELOPMENT CORP.  
 The Rouse Company  
 Columbia, Maryland 21044

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
 HOWARD COUNTY HEALTH DEPARTMENT  
*John A. Boyd, M.D.* 2/23/84  
 APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
*James J. Davis* 2-24-84  
 APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE  
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*Steve F. Neimey* 2-17-84  
 DIRECTOR  
*William S. P...* 2-16-84  
 CHIEF BUREAU OF ENGINEERING

APPROVED  
 DIVISION OF LAND DEVELOPMENT &  
 ZONING ADMINISTRATION  
 HOWARD COUNTY, MARYLAND  
 DATE 12-13-83  
*[Signature]*

**CLARK • FINEFROCK & SACKETT**  
 ENGINEERS • PLANNERS • SURVEYORS

DESIGNED: JBC  
 DRAWN: JBC  
 CHECKED: WHT  
 DATE: 11-11-83

**LANDSCAPE PLANTING PLAN**  
 LOT 10 E1 THRU E50  
 COLUMBIA  
 VILLAGE SECTION 3, AREA 2  
 5TH ELECTION DISTRICT  
 HOWARD COUNTY, MD

SCALE: 1" = 30'  
 DRAWING: 4 OF 4  
 JOB NO: SD-083  
 FILE NO: L-3  
 23-84