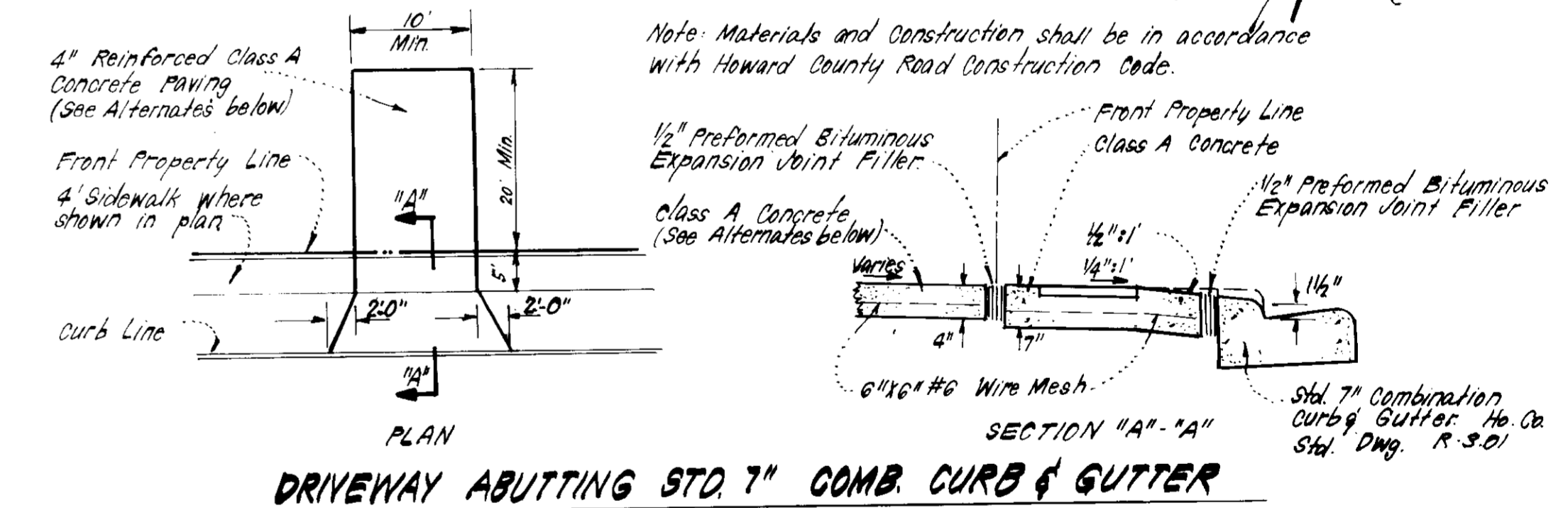


- GENERAL NOTES:**
1. The land included in this plan is zoned R-20
  2. All coordinates are based on traverse control for Columbia established by Maps Inc. in 1988 by Purdum & Veselke in 1968, which controls were tied to Maryland Bureau of Control Survey Monuments to U.S. Coast & Geodetic Survey Monuments in the Columbia Area.
  3. The area covered in this submission is located on Tax Map #24
  4. The total area on this plan is 1.385 Acres.
  5. All roadways are public and existing.
  6. All damage to county owned rights of way shall be corrected at the developer's expense.
  7. Total number of lots: 3

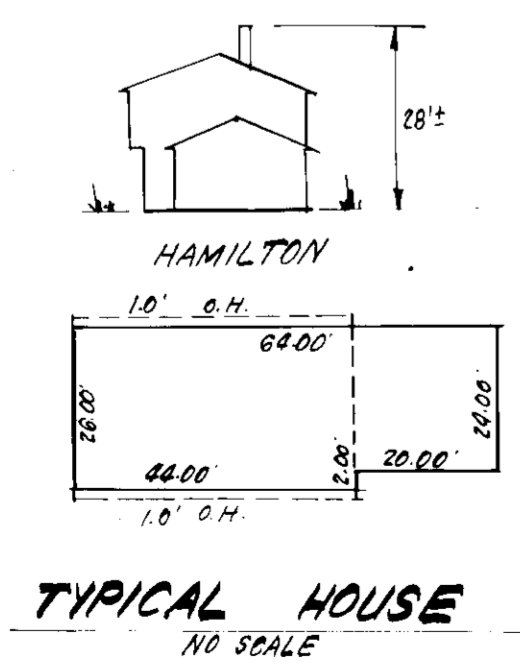
- LEGEND:**
1. Contour Interval 2 Ft.
  2. Existing Contour (dashed line)
  3. Proposed Contour (solid line)
  4. Spot Elevation 4.05
  5. Direction of Drainage (arrow)
  6. Existing Woods to be retained (cloud symbol)
  7. Walk Out Basement (W.O.B.)

APPROVED  
 DIVISION OF LAND DEVELOPMENT  
 ZONING ADMINISTRATION  
 HOWARD COUNTY, MARYLAND  
 DATE 5-17-83  
 [Signature]



Note: Materials and Construction shall be in accordance with Howard County Road Construction Code.

- ALTERNATE #1  
 1" Bit. Conc. Surface  
 2" Bit. Conc. Base  
 6" Gravel
- ALTERNATE #2  
 1" Bit. Conc. Surface  
 4" Bit. Conc. Base
- ALTERNATE #3  
 1" Bit. Conc. Surface  
 3" Bit. Conc. Base  
 3" Gravel



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT	DATE 6-9-83
APPROVED FOR HOWARD COUNTY OFFICE OF PLANNING & ZONING	DATE 6-10-83
APPROVED FOR DIVISION OF LAND DEVELOPMENT (ZONING ADMIN)	DATE 6-10-83
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	DATE 6-6-83
BUREAU OF ENGINEERING	DATE 6-6-83

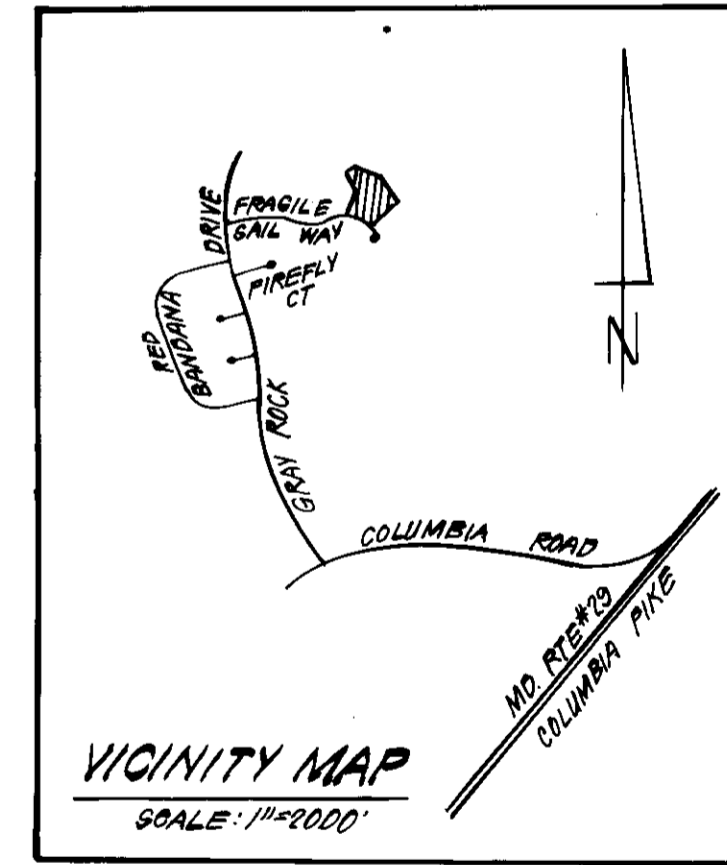
CLARK · FINEFROCK & SACKETT ENGINEERS · PLANNERS · SURVEYORS		SCALE 1"=30'
DESIGNED JME	SITE DEVELOPMENT PLAN LOTS 177, 178 & 179	DRAWING 10F2
DRAWN JME	<b>DORSEY HALL</b>	JOB NO. 79-092
CHECKED KIW	SECTION 1 AREA 9 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND	FILE NO. 79-092-X
DATE 4-20-83	FOR: The Ryland Group Inc. (Del. Div.) One Knoll North #505 Columbia, Md 21045	

**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 #6 for stabilization except that the seed mixture will be applied and 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 "Erosion and Sediment Control in Developing Areas" and shall be adjusted to meet actual 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 Specifications:
  - A Seed - certified 85% germination applied at the rate of 3.25/1000 sq ft. Mixture - Kentucky Blue, 20% Chewina Fescue, 20% Kentucky 3 and 20% annual Ryegrass.
  - B Fertilizer - 10-10-10 applied at a rate of 23 lbs/1000 sq ft. Ground Agricultural Lime or Dolomitic Lime applied at a rate of 90 lbs/1000 sq ft.
  - C Mulch - Weed free grain straw applied at a rate of 70-90 lbs/1000 sq ft. Mulch shall be secured to the ground by any approved method e.g. erosion fabric, chemical fasteners.
  - D 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 shall be kept out of Sediment Traps and Dikes, and proper establishment of all planted vegetation 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 and install Sediment & Erosion Control Devices to protect stabilized areas during construction.
- The Contractor shall keep all public roads free of sediment deposits and traffic leaving construction site.
- Approval of this plan is conditional upon the approval of Sediment Control Discharge 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 note #13.
- Total Amount of Straw Bales or Silt Fence shown = None.
- SITE ANALYSIS:**
  - A Total Area = 1.385 Acres
  - B Area to be Reroofed = 0.121 Acres
  - C Area to be Paved = 0.130 Acres
  - D Area to be Seeded = 0.396 Acres
  - E Area Undisturbed = 0.738 Acres
- CONSTRUCTION SEQUENCE:**
  - A Install Sediment & Erosion Control Devices and Stabilize Disturbed Areas.
  - B Excavate for Foundations and Rough Grade.
  - C Erect Structures, Driveways and Sidewalks.
  - D Final Grade and Stabilize in accordance with note #6.

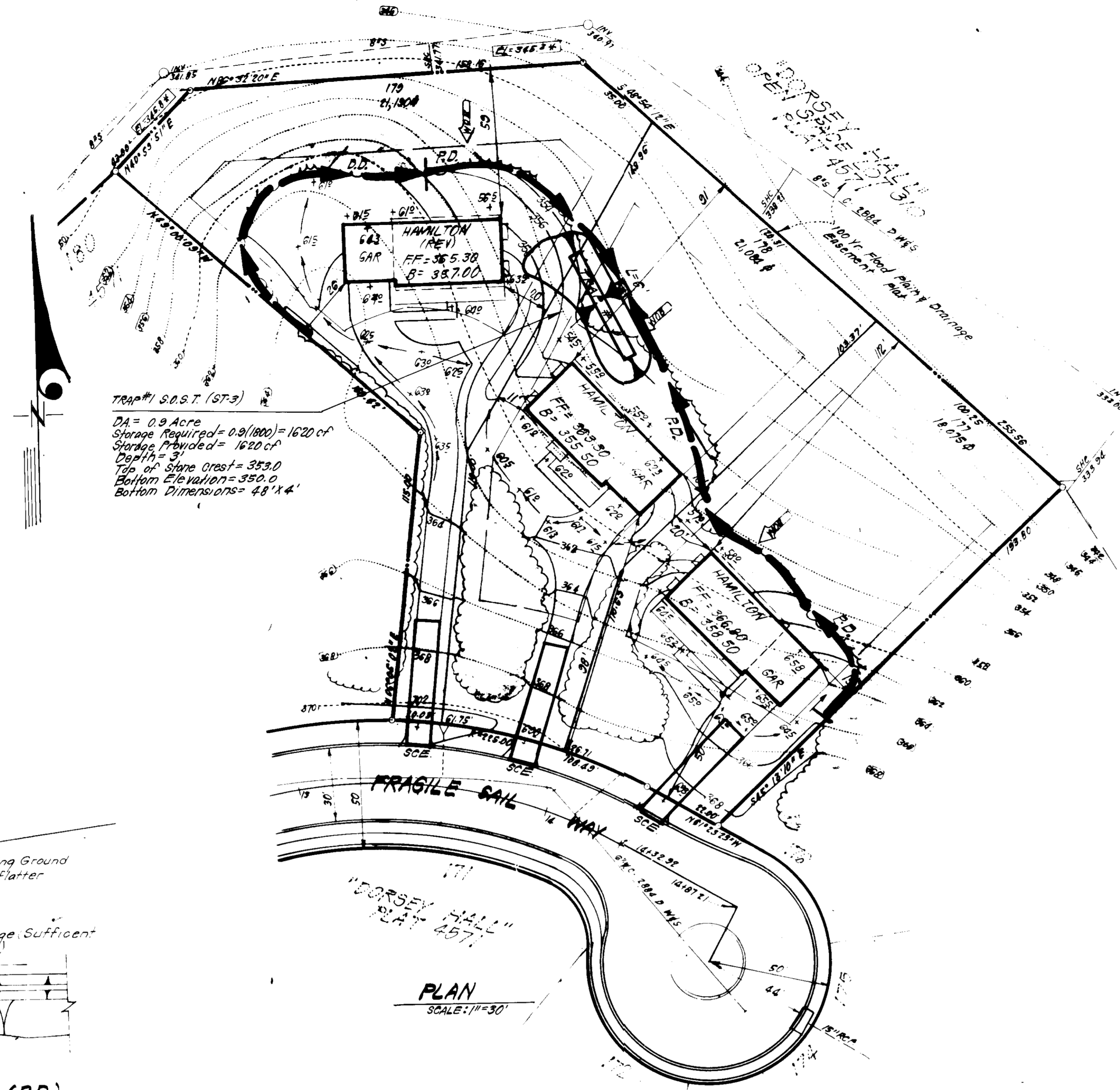
**LEGEND:**

- Existing Contour (2' Ft Interval)
- Proposed Contour
- Spot Elevation
- Direction of Drainage
- Existing Trees to be saved
- Perimeter Dike
- Diversion Dike
- Stone Construction Entrance
- Sediment Trap



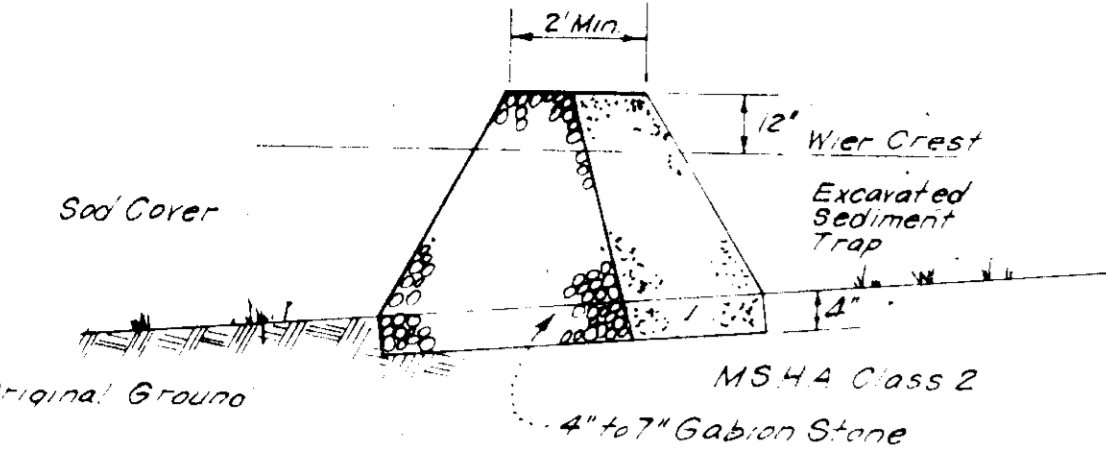
**VICINITY MAP**  
SCALE: 1"=2000'

**APPROVED**  
**DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION**  
**HOWARD COUNTY, MARYLAND**  
**DATE 5-17-83**  
*[Signature]*

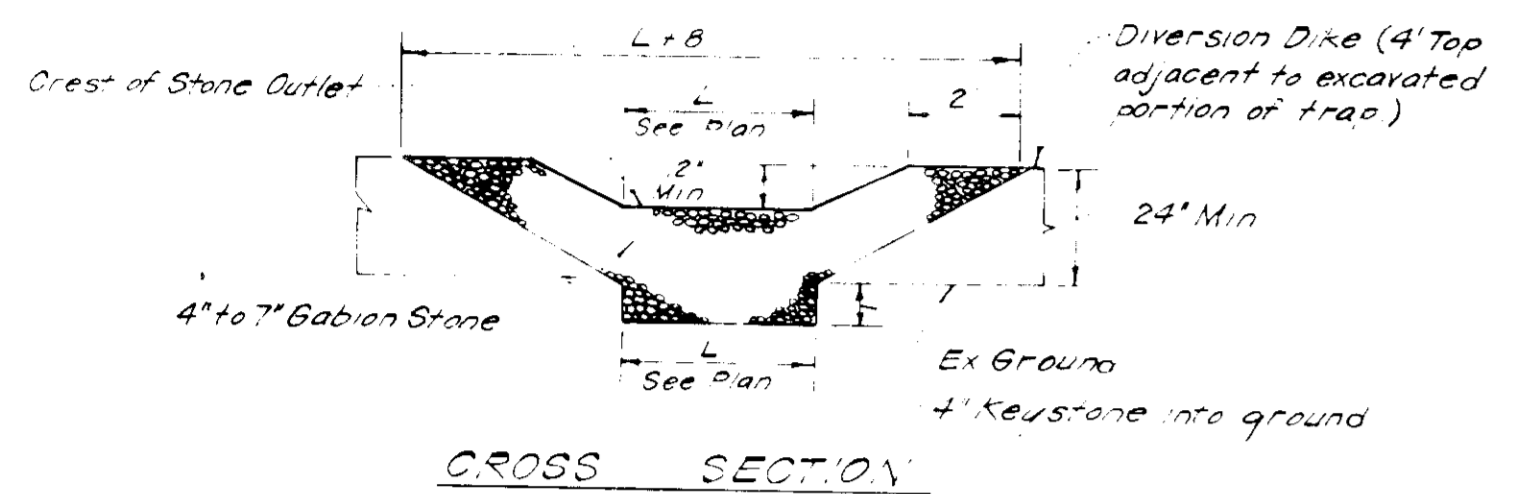


**PLAN**  
SCALE: 1"=30'

TRAP #1 S.O.S.T. (ST-3)  
DA = 0.9 Acre  
Storage Required = 0.9(100) = 1620 cf  
Storage Provided = 1620 cf  
Depth = 9'  
Top of Stone Crest = 353.0  
Bottom Elevation = 350.0  
Bottom Dimensions = 48' x 4'



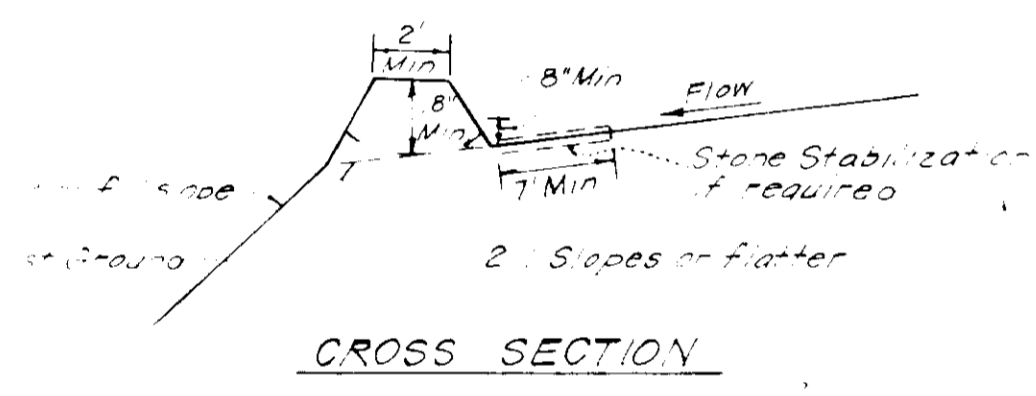
**PROFILE**



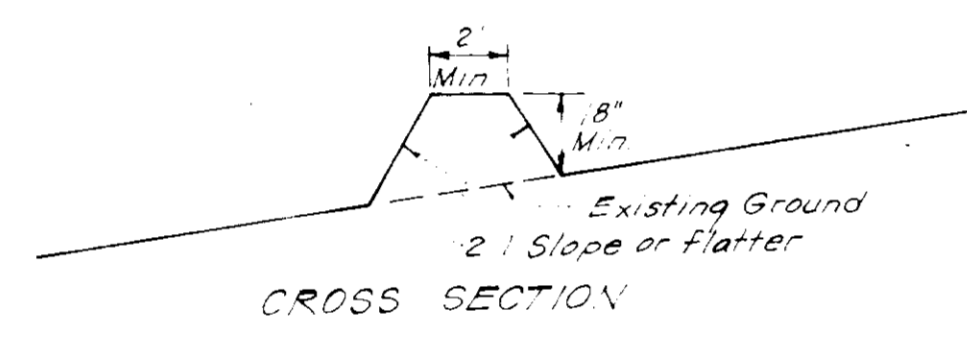
**CROSS SECTION**

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

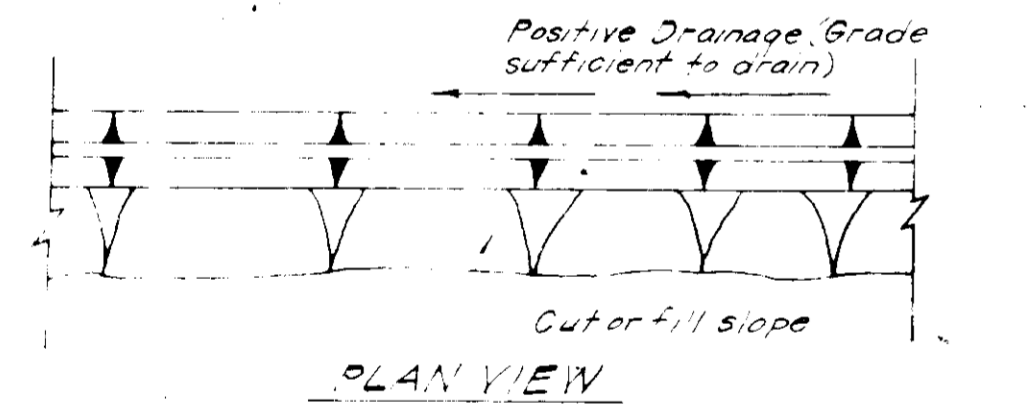
**DETAILS OF STONE FILTER OUTLET FOR STONE OUTLET SEDIMENT TRAP**  
NO SCALE



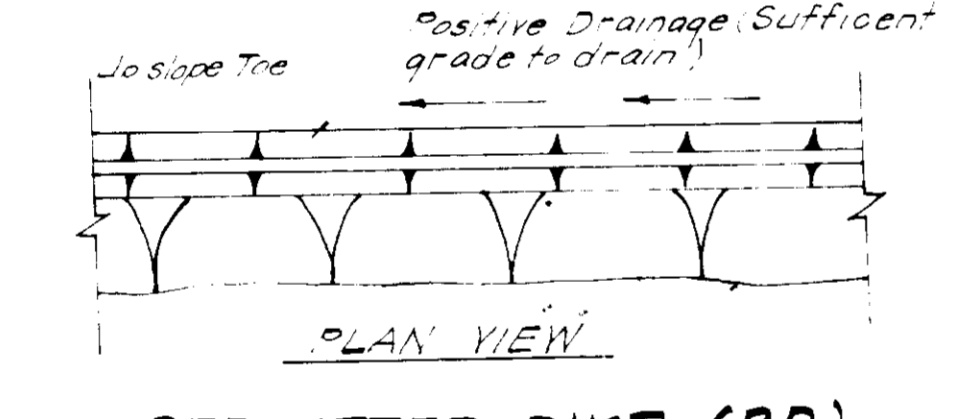
**CROSS SECTION**



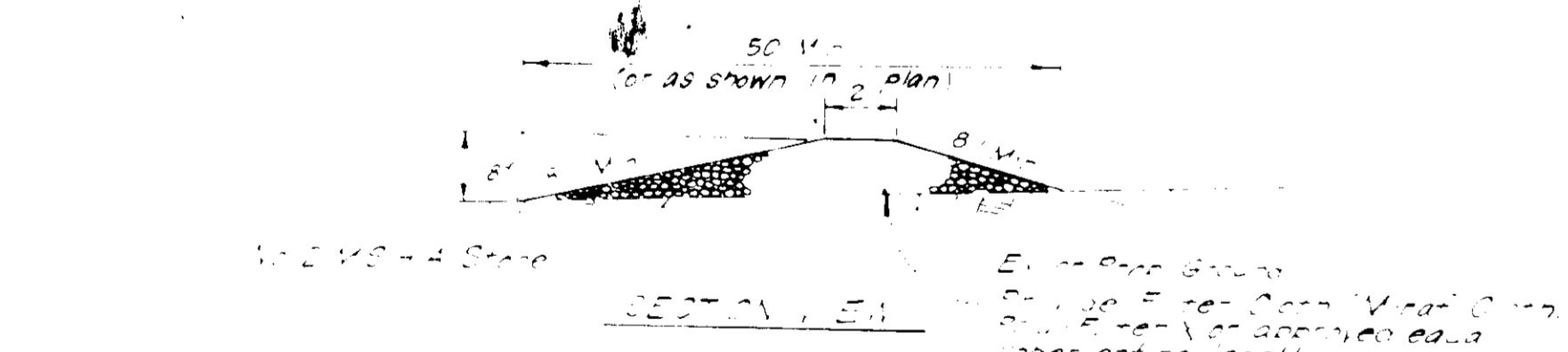
**CROSS SECTION**



**DIVERSION DIKE (D.D.)**  
NO SCALE



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



**SECTION**

**STONE CONSTRUCTION ENTRANCE (SCE)**  
NO SCALE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS. HOWARD COUNTY HEALTH DEPARTMENT	<i>[Signature]</i> OFFICER	6-9-83 DATE
APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING	<i>[Signature]</i> ZONING OFFICER	6-10-83 DATE
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	<i>[Signature]</i> DIRECTOR	6-10-83 DATE
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	<i>[Signature]</i> DIRECTOR	6-10-83 DATE

Reviewed for: **Howard SCD**  
*[Signature]*  
DATE 6/6/83  
U.S. Soil Conservation Service  
APPROVED  
DATE 6/28/83

**REGISTERED BUILDERS' CERTIFICATE**  
I 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 Sedimentation before beginning the project. I also authorize periodic inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary.  
*[Signature]* Maurice M. Simpkins  
4-25-83



**ENGINEER'S CERTIFICATE**  
I hereby certify that this plan for Erosion and Sediment Control meets the minimum standards for a workable plan and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.  
*[Signature]* G. Nelson Clark  
4-25-83  
DATE

<b>CLARK · FINEFROCK &amp; SACKETT</b> ENGINEERS · PLANNERS · SURVEYORS		11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400
DESIGNED VLS	SEDIMENT & EROSION CONTROL PLAN LOTS 177, 178 & 179 <b>DORSEY HALL</b>	SCALE As Shown
DRAWN KIW		DRAWING 2 OF 2
CHECKED VLS	SECTION 1 AREA A 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO 79192
DATE 4-20-83	FOR: The Ryland Group Inc (Coll) Div One Knob North #503 Columbia, Md 21045	FILE NO 79092-9E