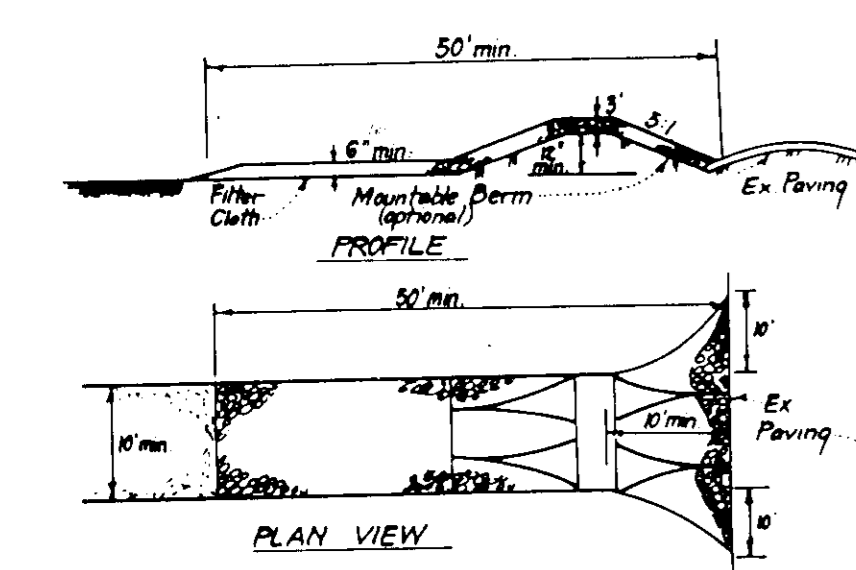


PERMANENT SEEDING NOTES

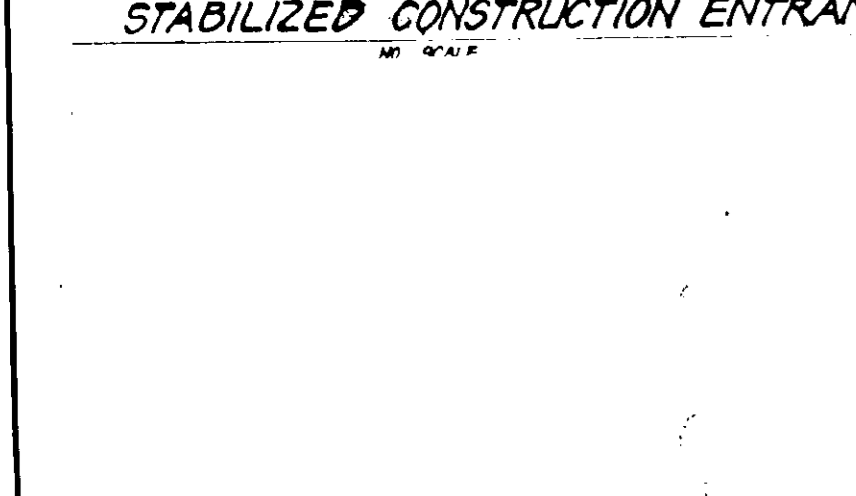
- A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (892-2437)
- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- Following initial soil disturbance or redisturbances, permanent or temporary stabilization shall be completed within 7 calendar days for all permanent sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1. 14 days as to all other disturbed or graded areas on the project site.
- All sediment traps/basins shall be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- 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. 31) and (Sec. 34), temporary seeding (Sec. 30) and mulching (Sec. 32). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
- All sediment control structures are to remain in place and are to be maintained in operating condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
- Site Analysis:
 - Total Area of Site: 1,481 Acres
 - Area Disturbed: 108.9 Acres
 - Area to be roofed or paved: 0.268 Acres
 - Area to be vegetatively stabilized: 0.271 Acres
 - Total Cut: 10,725 Cu. Yds
 - Total Fill: 17,725 Cu. Yds
 - Offsite waste/harrow area: 1000000 N/A
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment control must be provided, if deemed necessary by the Howard County EIM approval 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.
- If houses are to be constructed on an "As-Built" basis, at random, single lot sediment control as shown below shall be implemented.
- All dikes shall be blocked at the end of each day (see detail below). N/A
- The total amount of straw bale dikes/silt fence equals N/A S.F.

CONSTRUCTION SEQUENCE

Activity	No. of Days
Obtain Grading Permit and Install Sediment and Erosion Control Devices and Stabilize	7
Excavate for Foundations and Rough Grade of Temporary Stabilize	30
Construct Structures, Sidewalks and Driveways	30
Final Grade and stabilize in accordance with Sids. & Specs.	30
Upon approval of the sediment control inspector, remove sediment and erosion controls and stabilize	14



- CONSTRUCTION SPECIFICATIONS:**
- Stone size - Use 2" stone or reclaimed or recycled concrete equivalent.
 - Length - As required, but not less than 50 feet (except on a single residence lot where a 30-foot minimum length would apply).
 - Thickness - Not less than six (6) inches.
 - Width - Ten (10) feet minimum, but not less than the full width at points where ingress or egress occurs.
 - 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.
 - Surface Water - All surface water flowing or diverted toward construction entrances shall be passed across the entrance. If paving is impractical, a mounded curb with 3:1 slopes will be permitted.
 - 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, sand, raking and/or cleanup of any measure used to trap sediment. All sediment applied, dragged, or tracked onto public rights-of-way must be removed immediately.
 - 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.
 - Periodic inspection and needed maintenance shall be provided after each run.



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER: [Signature] 10-31-86
 DATE: 10-31-86

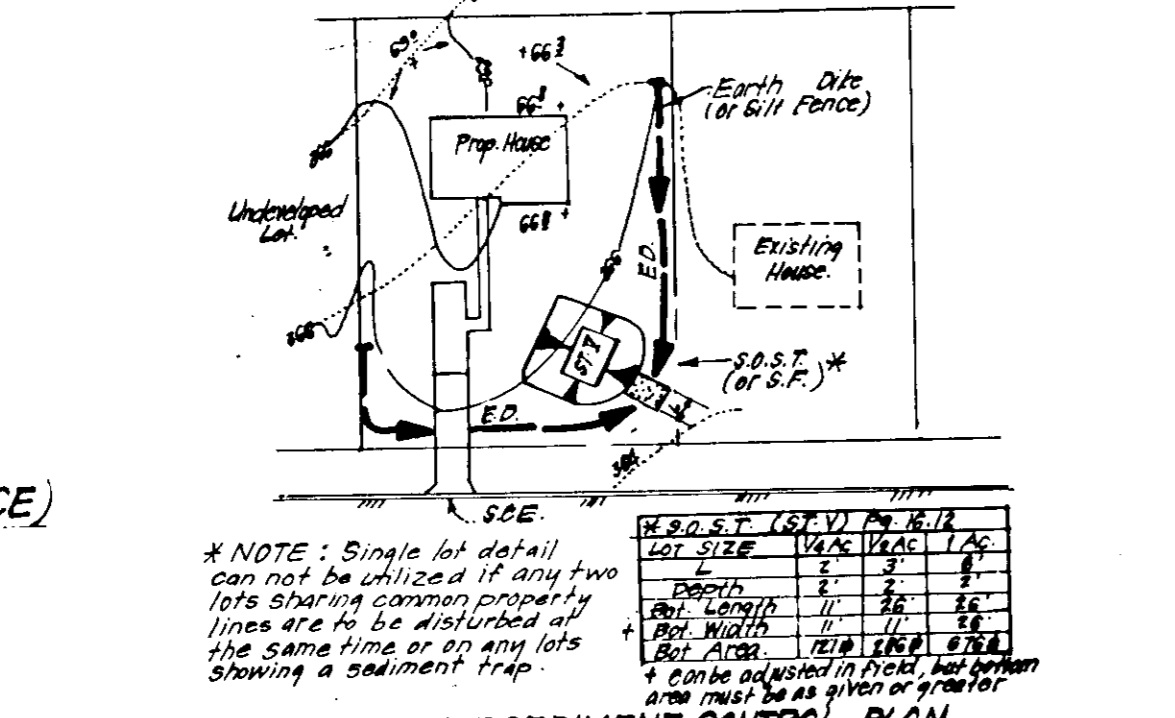
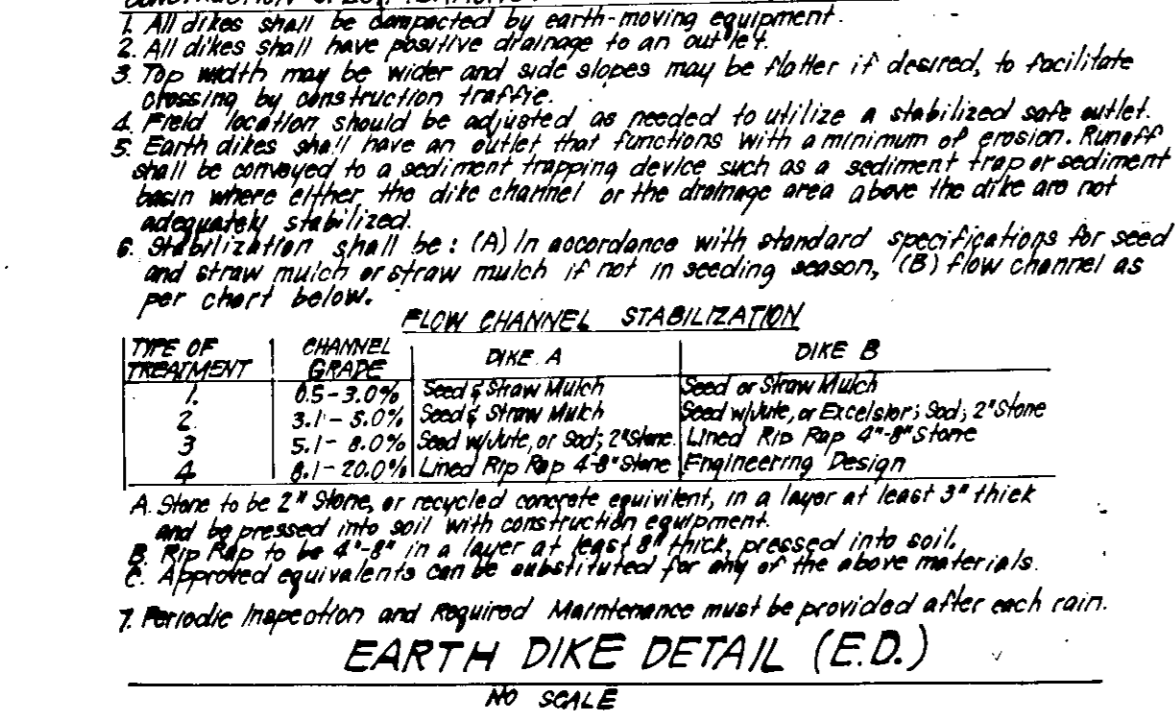
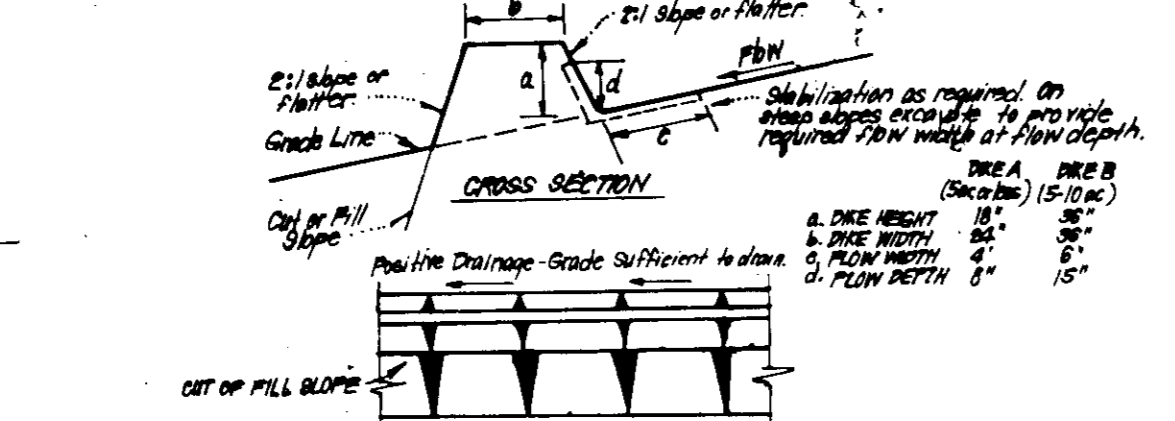
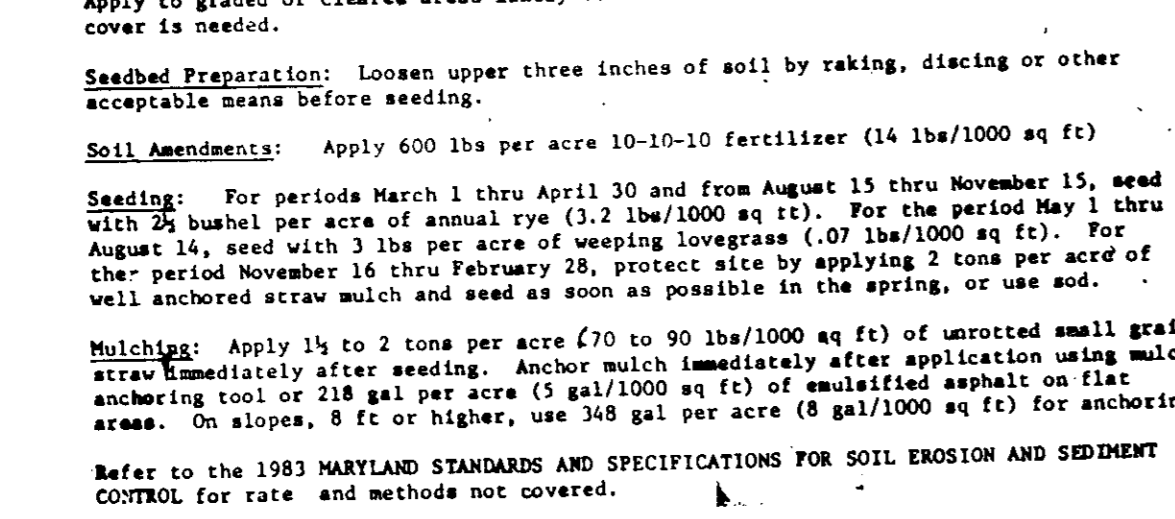
APPROVED FOR PLANNING AND ZONING
 OFFICE OF PLANNING & ZONING
 PLANNING DIRECTOR: [Signature] 11-3-86
 DATE: 11-3-86

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: [Signature] 10-21-86
 DATE: 10-21-86

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.
- Soil Amendments:** In lieu of soil test recommendations, use one of the following schedules:
- 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).
 - 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 20 bushels per acre of annual ryegrass (3.2 lbs/1000 sq ft). 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 October 16 thru February 28, protect site by: Option (1) 2 tons per acre of well anchored straw mulch and seed 20 bushels per acre of annual ryegrass. Option (2) Seed with 60 lbs per 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 untreated 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 unmodified 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.

TRAP #1 (S.O.S.T.)

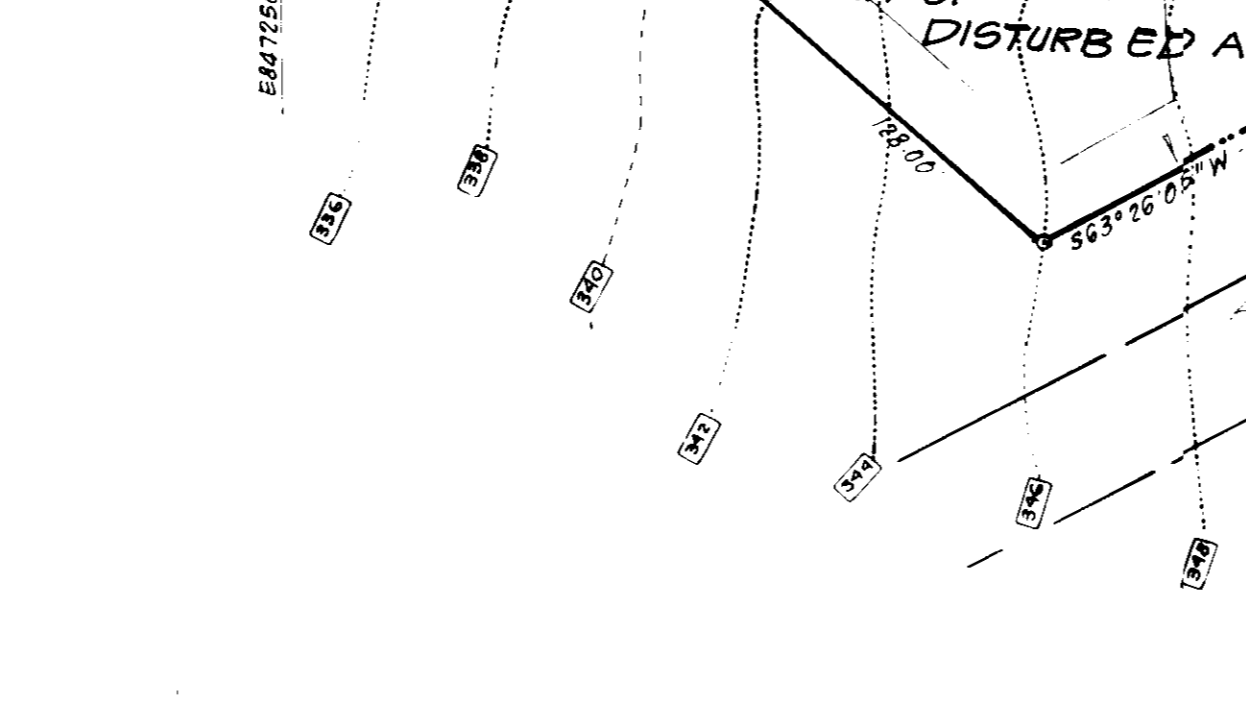
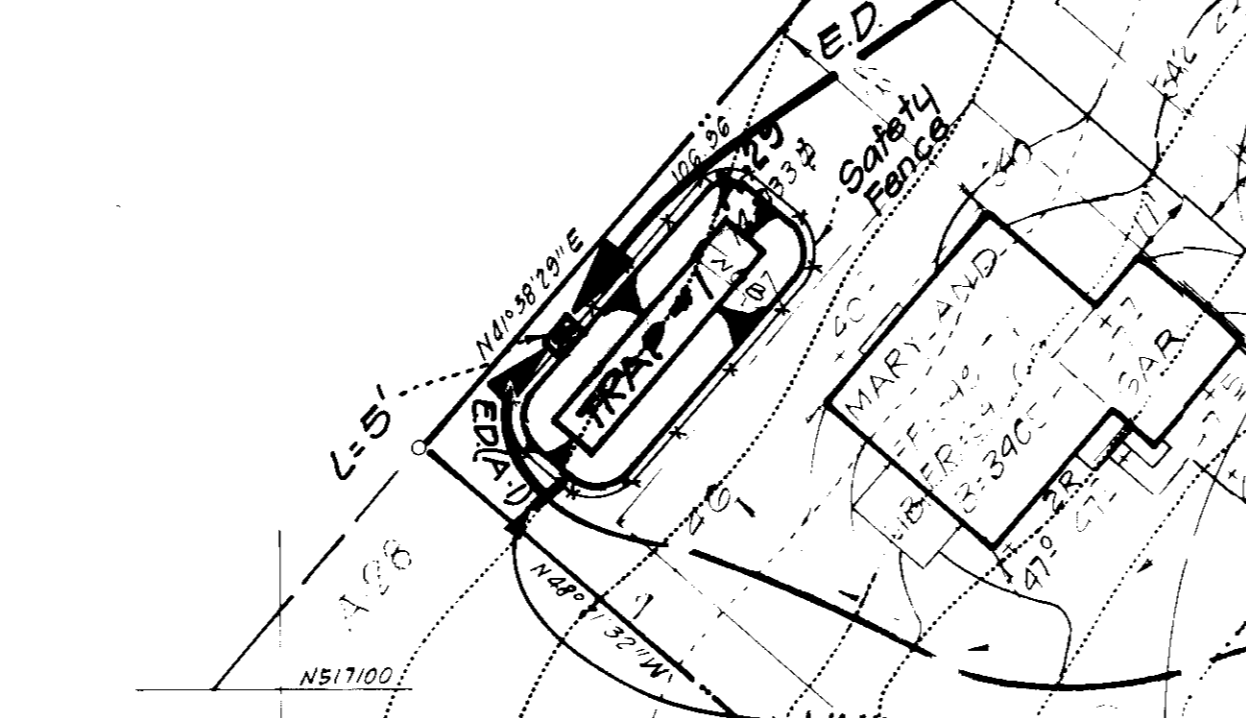
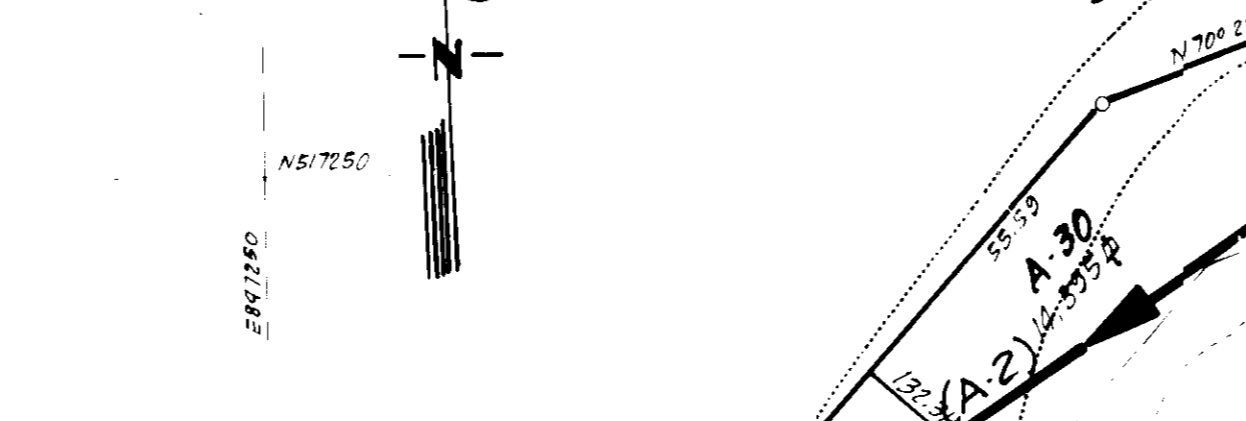
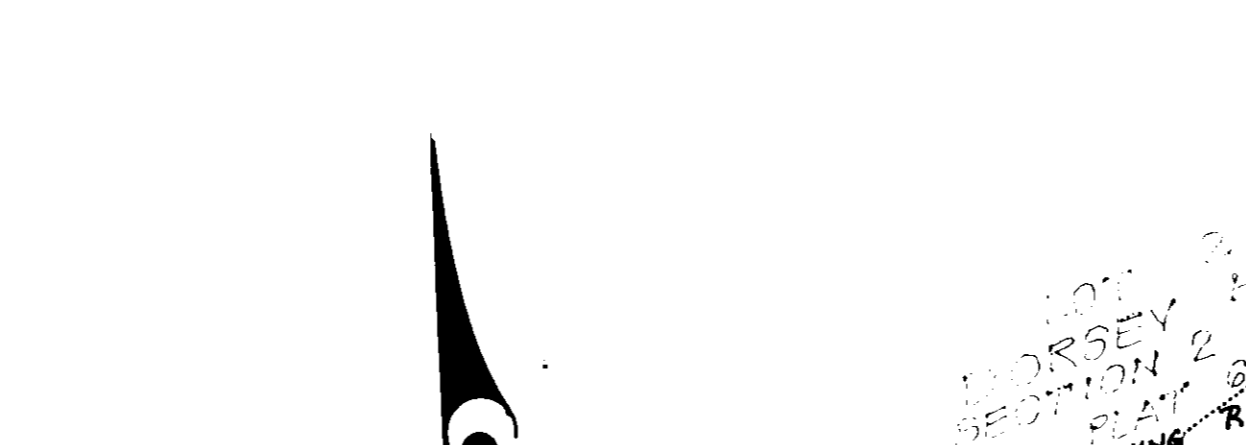


APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER: [Signature] 10-17-86
 DATE: 10-17-86

APPROVED FOR PLANNING AND ZONING
 OFFICE OF PLANNING & ZONING
 PLANNING DIRECTOR: [Signature] 10-28-86
 DATE: 10-28-86

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: [Signature] 10-21-86
 DATE: 10-21-86

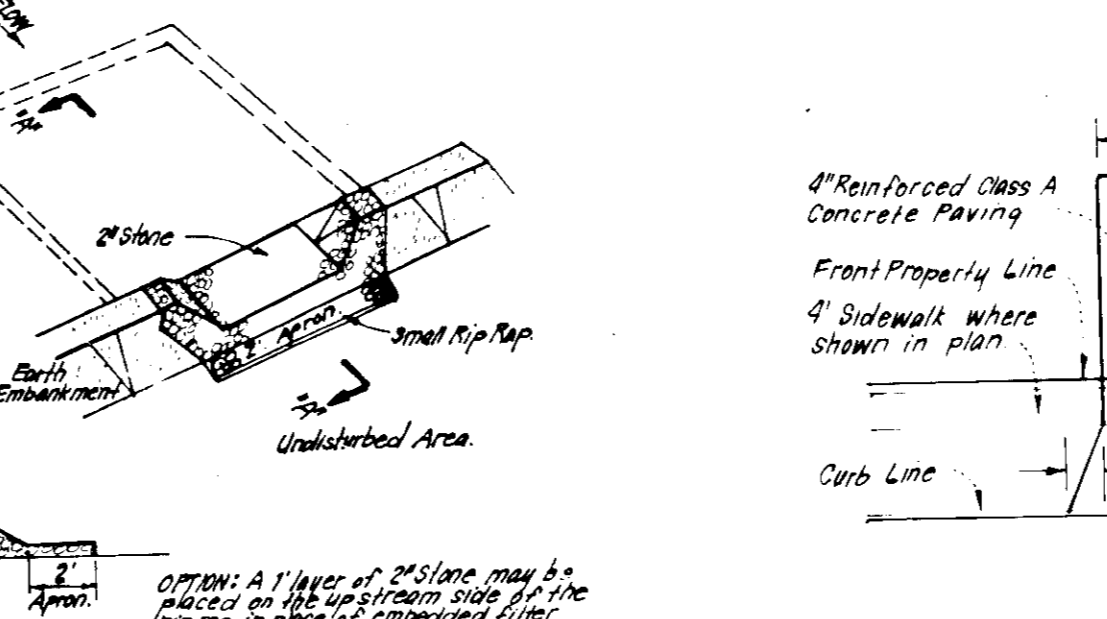
DA: 12 A.C.
 Storage Required: 12x1800x2160cf
 Storage Provided: 2160cf
 Top of Stone Crest: 336.0
 Bottom Elevation: 331.0
 Depth: 4'
 Cleanout Elevation: 333.0
 Bottom Dimensions: 4'x8'
 * 1:1 Slopes in cut



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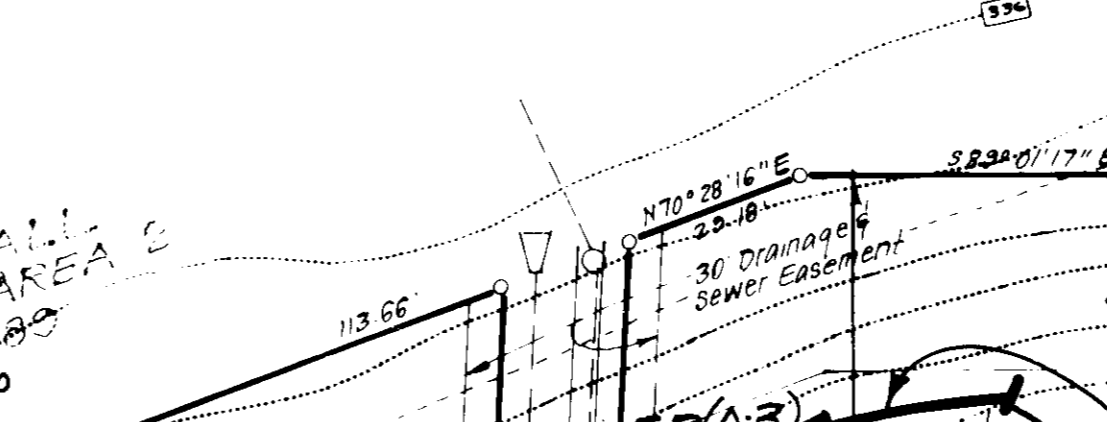
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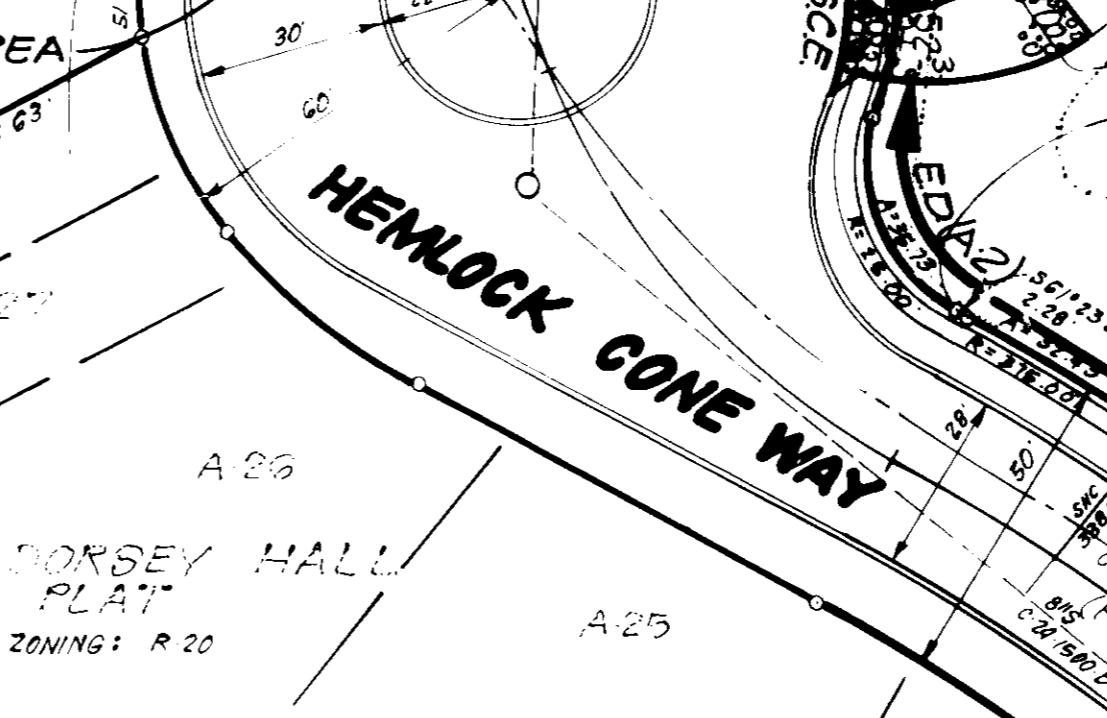
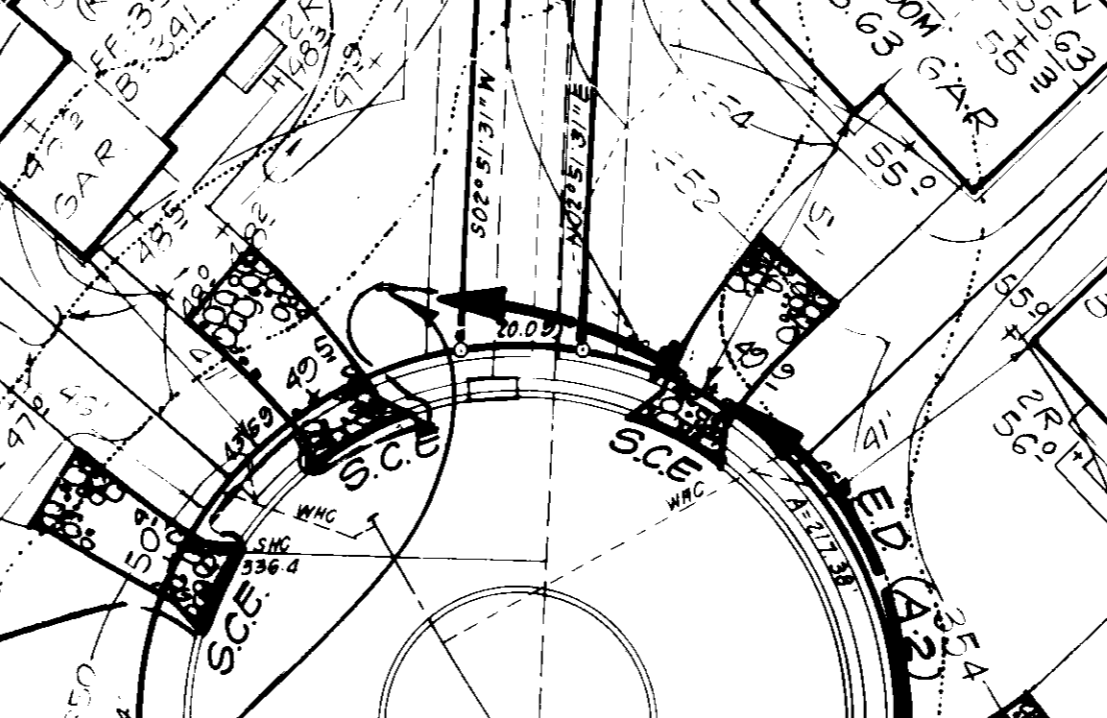
DRIVEWAY ABUTTING STD 7" COMB. CURB & GUTTER
 No Scale

CONSTRUCTION SPECIFICATIONS:

- Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The soil shall be compacted.
- The fill material for the embankment shall be free of rocks and other hard vegetation as well as oversized stones, rock, organic material or other objectionable material. The embankment shall be compacted by tamping with equipment while it is being constructed.
- All cut and fill slopes shall be 2:1 or flatter.
- 2" stone used in the outlet shall be small rip rap 4" or less with 1" thickness of 2" aggregate placed immediately to the outer edge of the rip rap.
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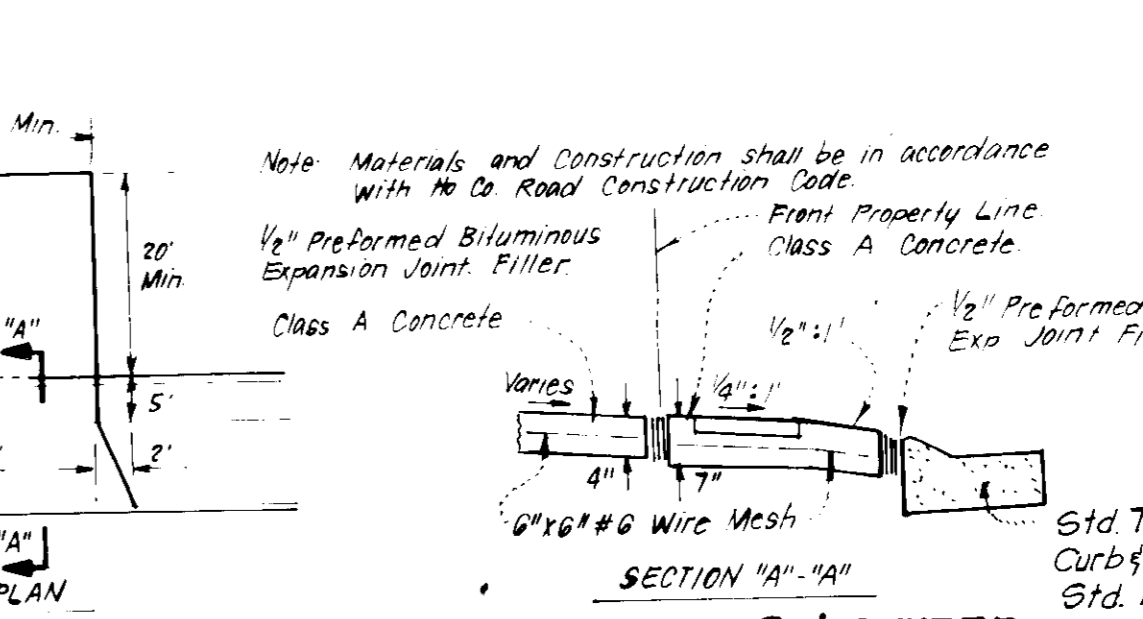
STONE OUTLET SEDIMENT TRAP (S.O.S.T.)
 NO SCALE



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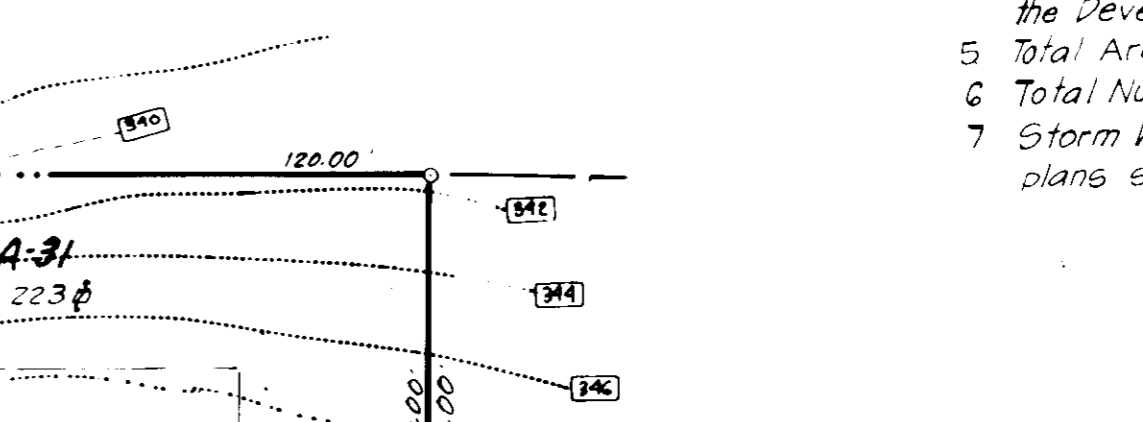
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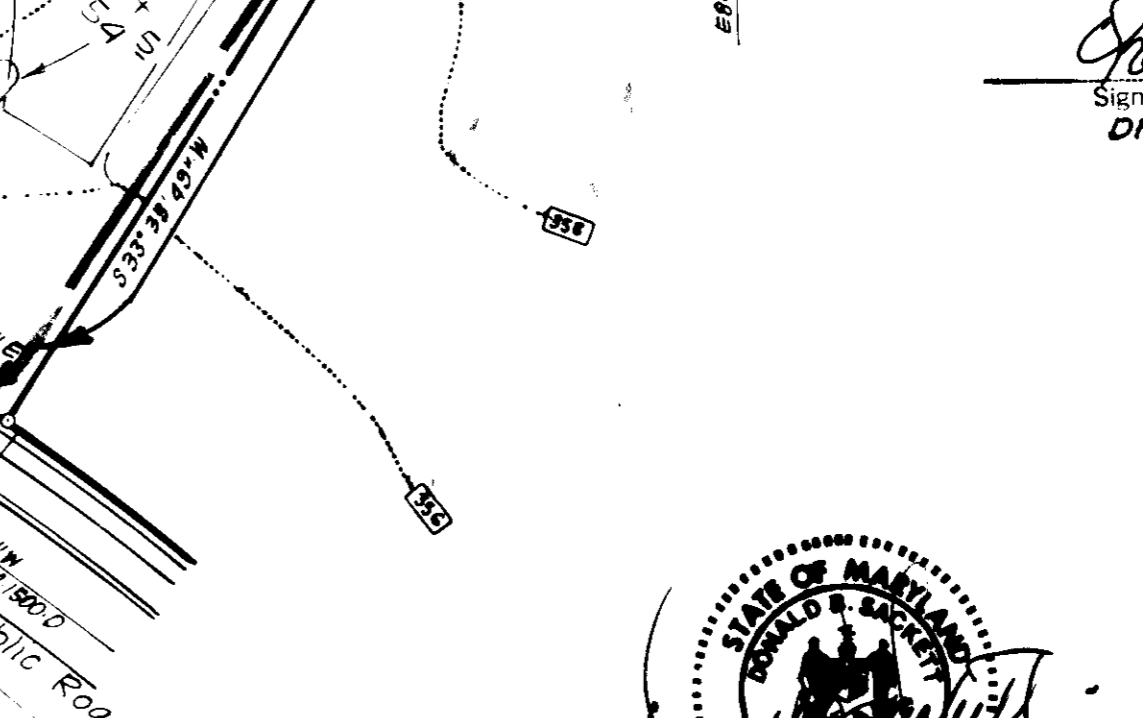
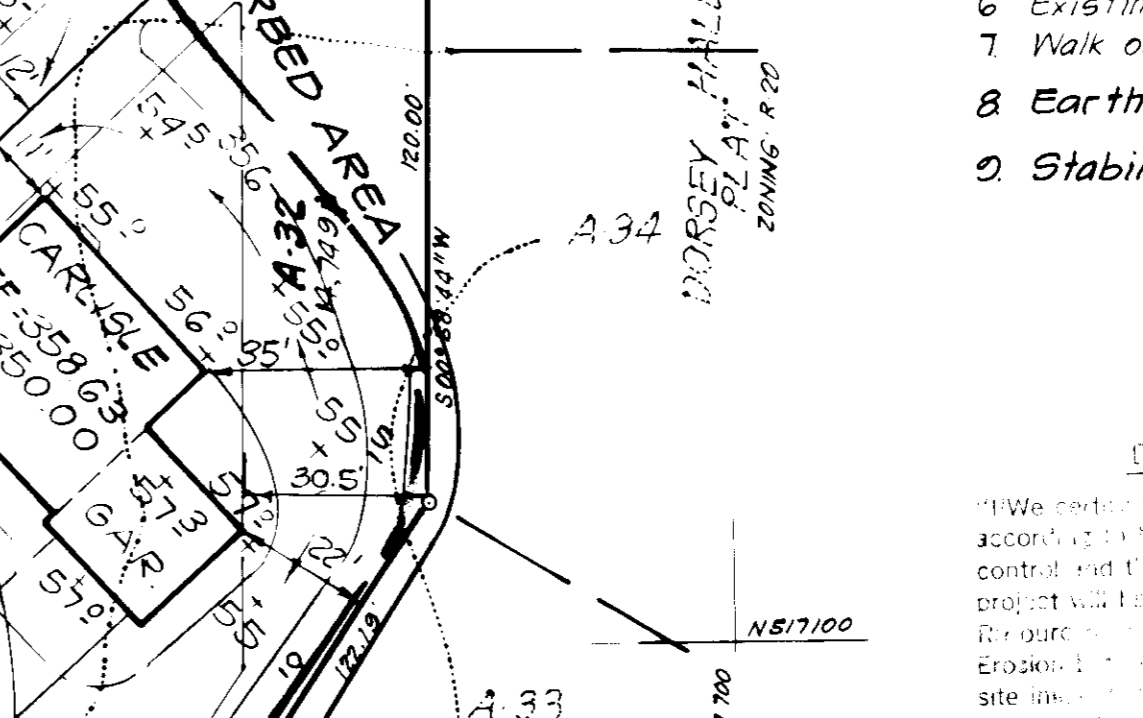
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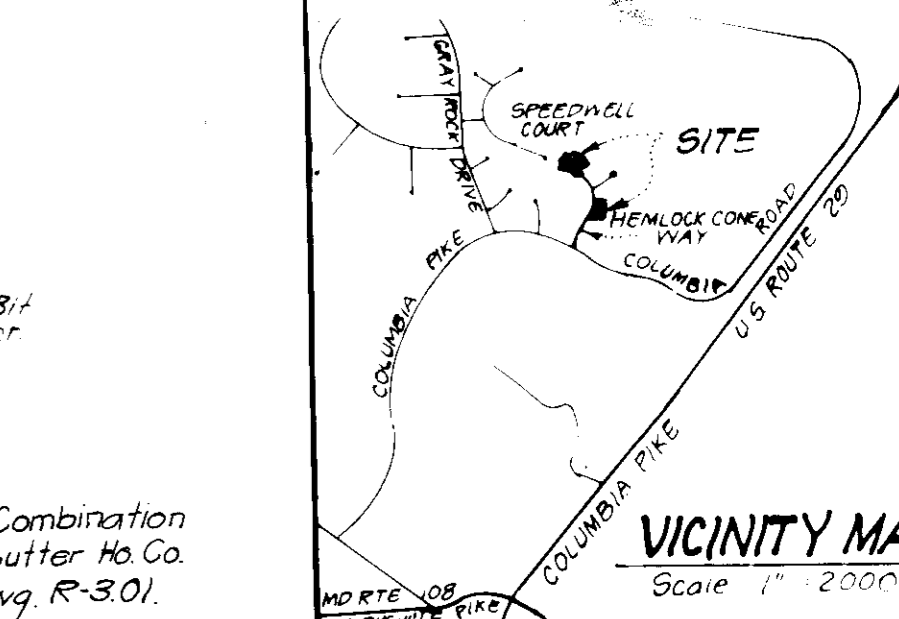
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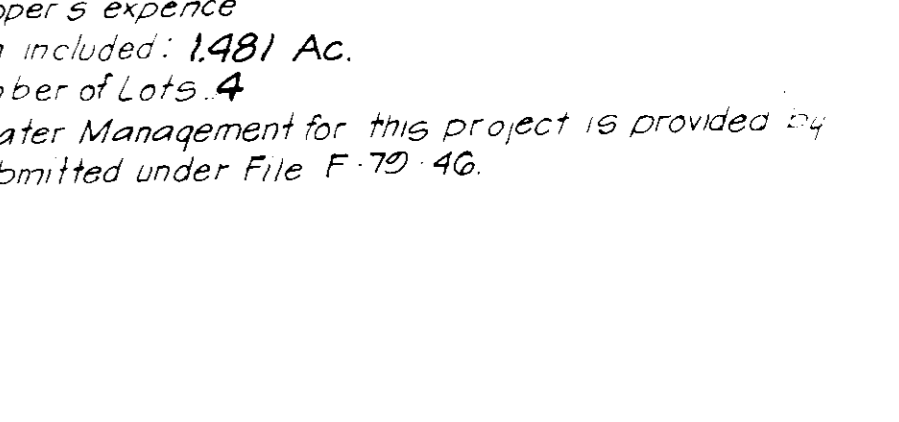
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 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: [Signature] 10-21-86
 DATE: 10-21-86



GENERAL NOTES:

- The land included in this plan is zoned R-20
- All coordinates are based upon Howard County Geodetic Control Monuments 2841002 and 2942002 which are based upon the Maryland State Plane Coordinate System
- All roads are public and existing
- Any damage to county owned rights-of-way to be corrected at the Developer's expense
- Total Area included: 1,481 Ac.
- Total Number of Lots: 4
- Storm Water Management for this project is provided by plans submitted under File F-79-46.



LEGEND:

- Contour Interval 2ft
- Existing Contour
- Proposed Contour
- Spot Elevation
- Direction of Drainage
- Existing Trees to be Saved
- Walk out Basement
- Earth Dike
- Stabilized Construction Entrance

DEVELOPER'S BUILDER'S CERTIFICATE

I, [Signature], certify that the information contained in this plan is true and correct and that I am a duly licensed professional engineer or surveyor in the State of Maryland.

DATE: 9-23-86
 SIGNATURE: DREW J. SIKORSKI

ADDRESS CHART

Lot #	STREET ADDRESS
A 29	4577 Hemlock Cone Way
A 30	4568 "
A 31	4564 "
A 32	4560 "

ENGINEER'S CERTIFICATE

I, [Signature], certify that the information contained in this plan is true and correct and that I am a duly licensed professional engineer or surveyor in the State of Maryland.

DATE: 9-23-86
 SIGNATURE: G. Neelson Clark

CLARK • FINEFROCK & SACKETT
 ENGINEERS • PLANNERS • SURVEYORS
 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400

SITE DEVELOPMENT PLAN AND SEDIMENT & EROSION CONTROL PLAN
 LOTS A20 THRU A32

DORSEY HALL
 SECTION 2 AREA 2
 2ND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

FOR CONSOLIDATED HOME BUILDERS, INC.
 8350 Route 108
 Columbia, Md 21045

SCALE: 1"=30'
 DRAWING: 10F1
 JOB NO: 86-086
 FILE NO: 86-086

DATE: 9-18-86
 SDP-87-64

