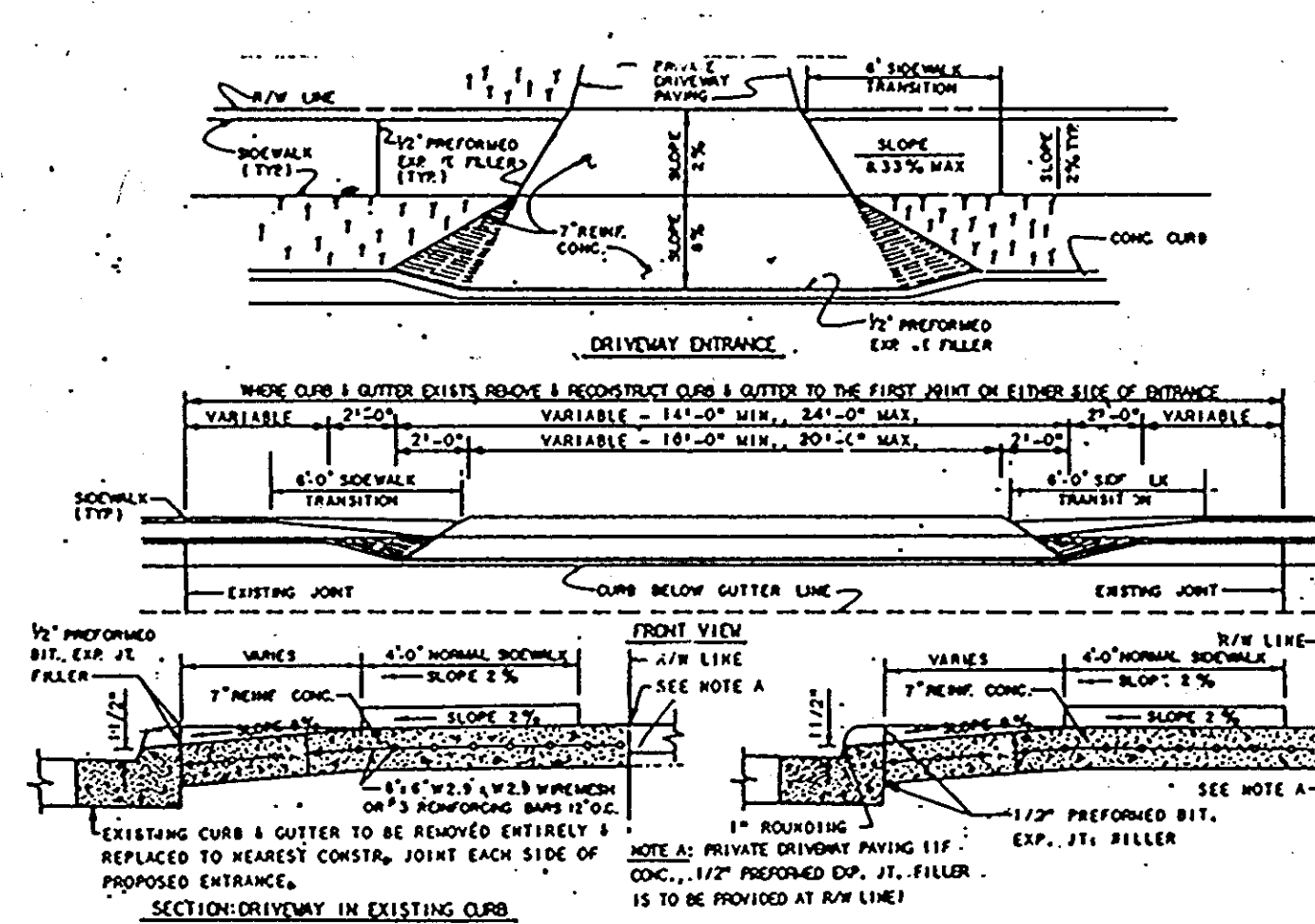
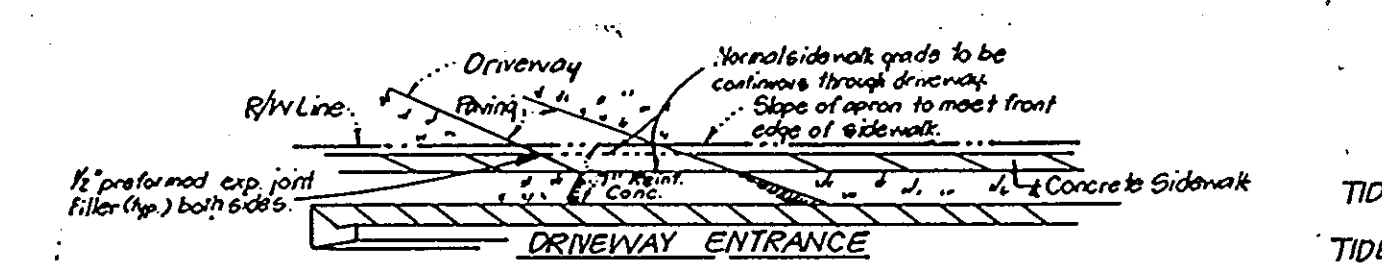


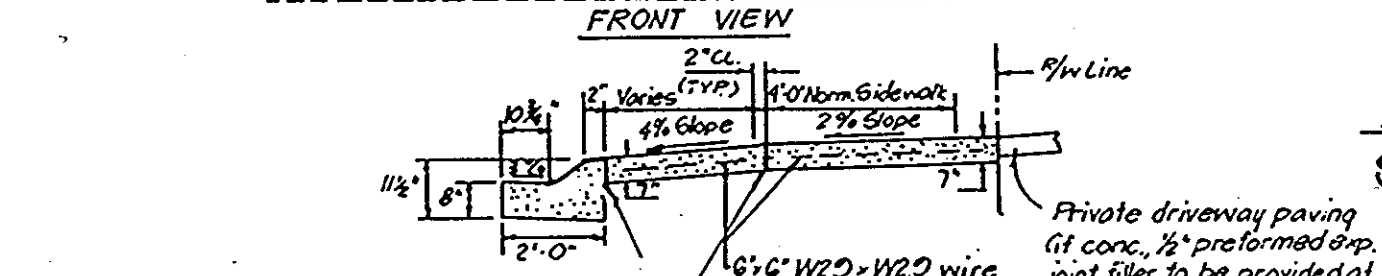
LOT #	STREET ADDRESS
8	6902 Raven Lane
9	6906 " "
10	6910 " "
11	6914 " "
12	6918 " "
13	6922 " "
14	6908 " "
15	6905 Raven Lane
16	6985 Newberry Drive



DRIVEWAY ABUTTING CLOSED SECTION WITH STD 7" COMB. CURB & GUTTER & SIDEWALK SET BACK FROM CURB

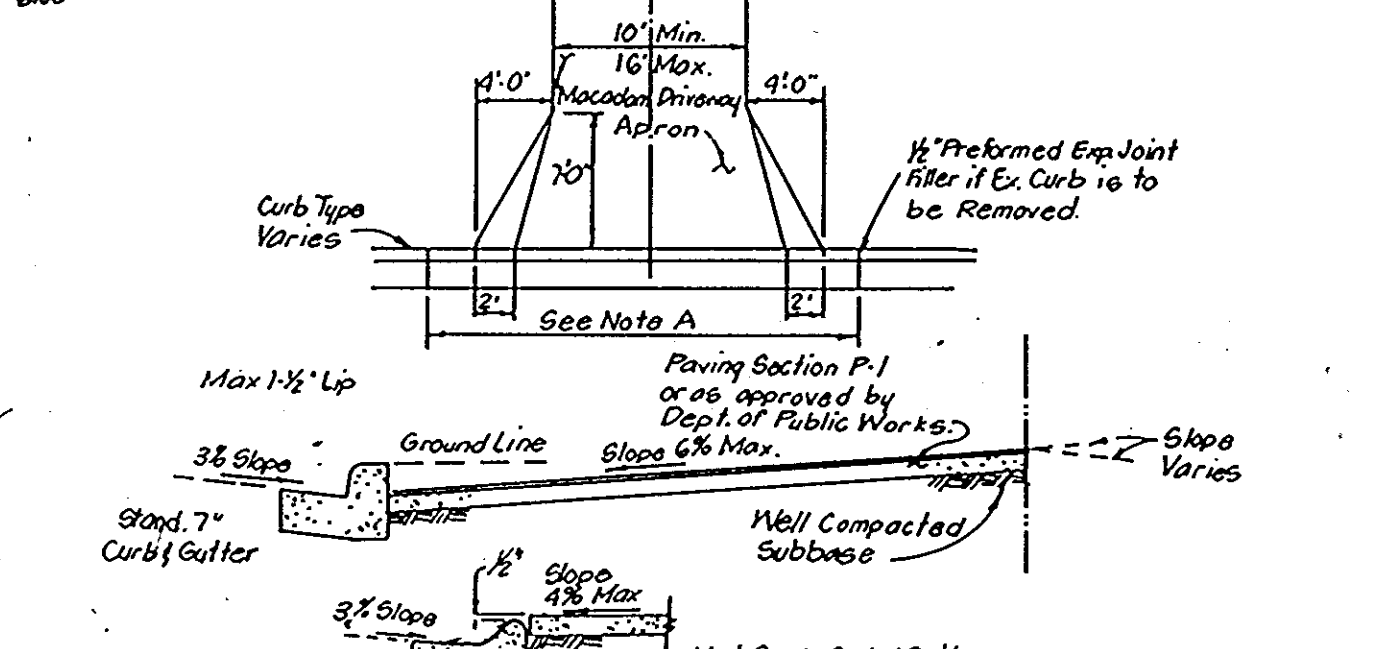


DRIVEWAY ABUTTING CLOSED SECTION WITH MODIFIED COMB CURB & GUTTER & SIDEWALK

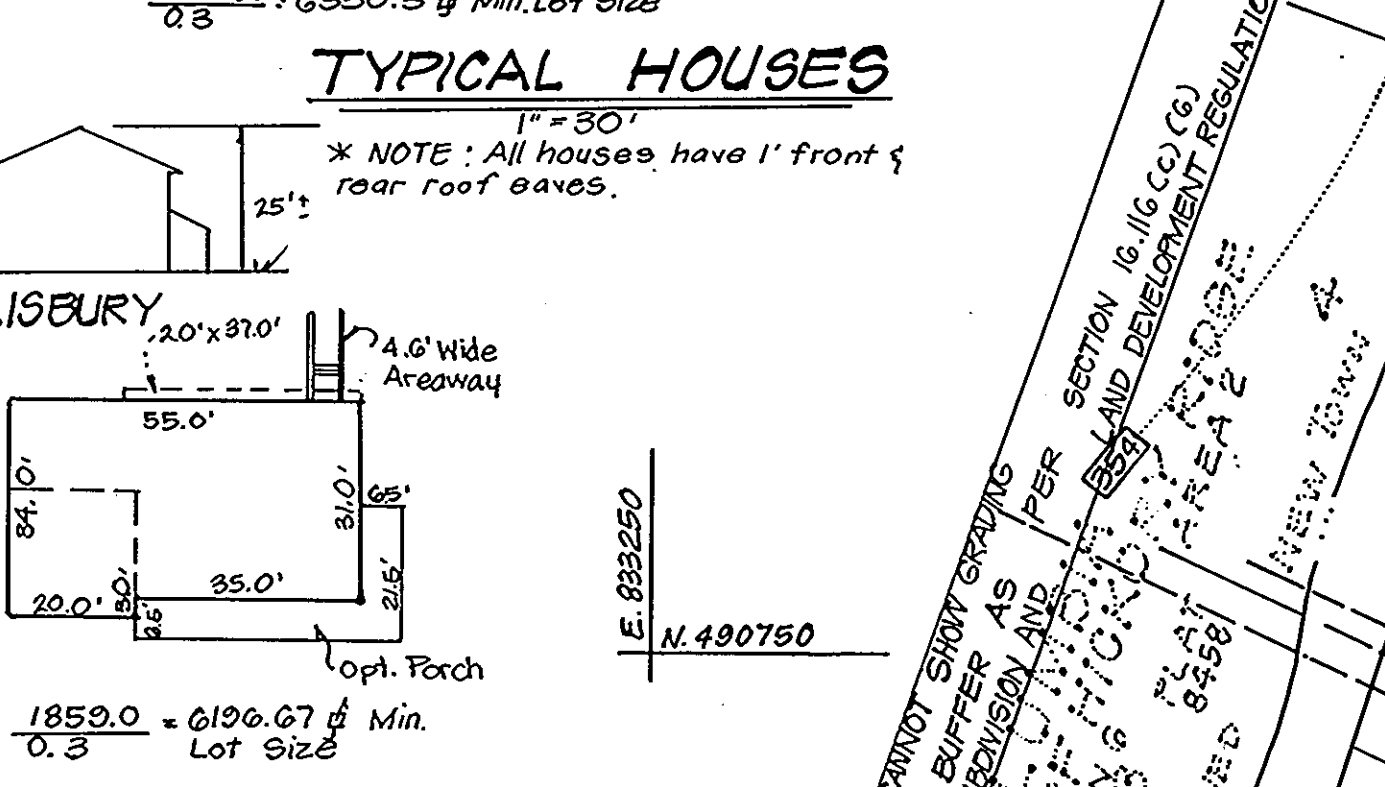
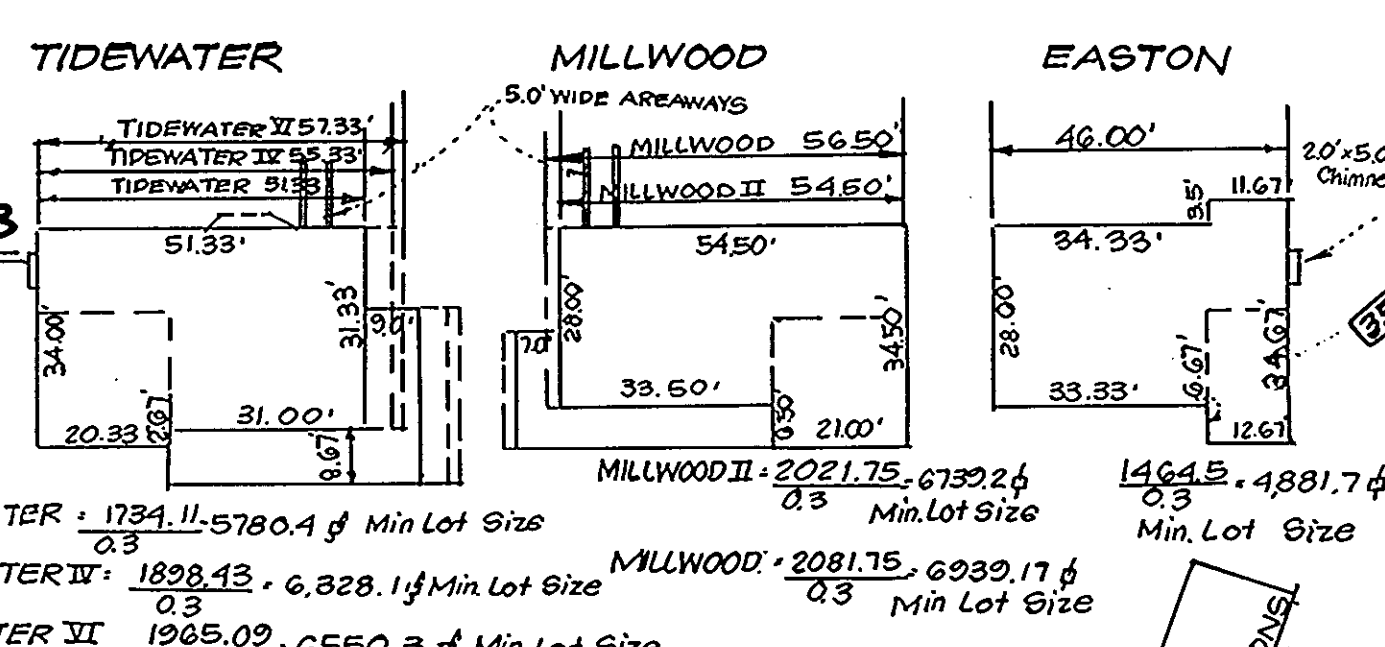


DRIVEWAY ABUTTING CLOSED SECTION WITHOUT CONCRETE SIDEWALK

NOTE A: Where curb & gutter exists, remove & reconstruct curb & gutter to meet joint on either side.



DRIVEWAY ABUTTING CLOSED SECTION WITHOUT CONCRETE SIDEWALK



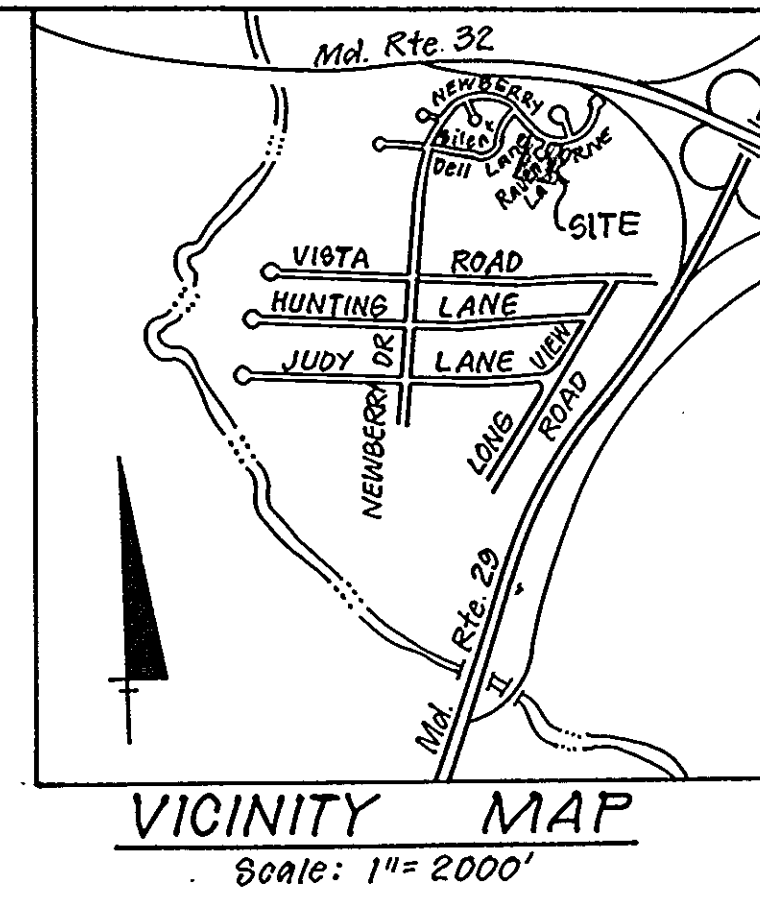
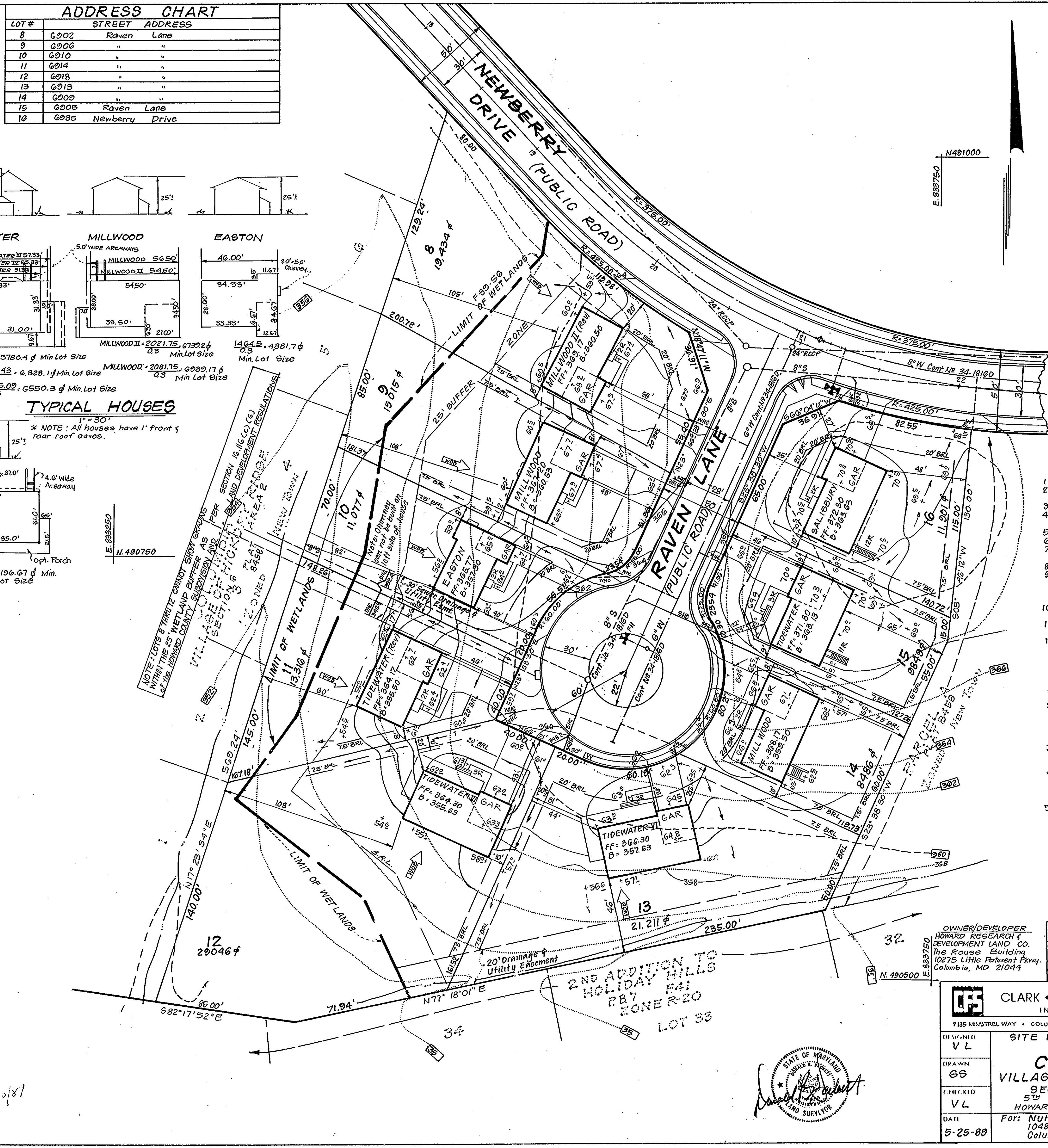
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: FOR ROAD COUNTY OFFICE OF PLANNING & ZONING

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

APPROVED
DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND

DATE: 7-27-89
DATE: 8/1/89
DATE: 7/25/89
DATE: 7-25-89



LEGEND

CONTOUR INTERVAL: 2 FT.
EXISTING CONTOUR: ---
PROPOSED CONTOUR: - - -
SPOT ELEVATION: +
DIRECTION OF DRAINAGE: →
WALK-OUT BASEMENT: [Symbol]

GENERAL NOTES

- SUBJECT PROPERTY IS ZONED: NEW TOWN STATE GRID SYSTEM.
- COORDINATES ARE BASED UPON THE MARYLAND STATE GRID 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: 3.20 AC
- TOTAL NUMBER OF LOTS: 9
- REFERENCE FINAL DEVELOPMENT PLAN 198 AUGUST 2, 1985.
- MAXIMUM BUILDING COVERAGE IS 80%.
- THE CONTRACTOR OR DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION SURVEY DIVISION 24 HOURS IN ADVANCE OF COMMENCEMENT OF WORK AT 792-2630.
- THE EXISTING TOPO WAS TAKEN FROM PLANS PREPARED BY CENTURY ENGINEERING, INC.
- REFERENCE NO'S: S-87-73, P88-31, F-88-199, F-88-71, WP 89-23, F 89-56.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL, VOL. IV, STANDARDS, SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, 1989 AMENDMENTS.

SPECIAL NOTES

- APPROVED ROAD CONSTRUCTION PLANS SHALL BE USED FOR ALL PUBLIC UTILITIES.
- THE WATER AND SEWER HOUSE CONNECTIONS NOT INCLUDED IN A DEVELOPER'S AGREEMENT SHALL CONFORM TO HOWARD COUNTY PLUMBING CODE. THE ON-SITE WHC SHALL BE 1" COPPER, THE SHC SHALL BE 4" IRON.
- PUBLIC WATER & SEWER SHOWN FOR REFERENCE ONLY FOR MORE DETAILED INFORMATION SEE CONTRACT NO 34-1810D.
- A WAIVER FROM STORMWATER MANAGEMENT FOR THIS SITE WAS GRANTED JAN. 14, 1989, PREPARED BY CENTURY ENGINEERING, INC. (HO. CO. FILE NO. F-88-199).
- NOTE: WETLAND DELINEATION PROVIDED BY F-89-56 FOR THIS PROJECT.

Subdivision Name	COLUMBIA	Sect./Area	8/16
Village of Hickory Ridge		6/2	
Plot No	8458	Block No	6
Zone	NewTown	Tax/Map#	41
Elec. Dist.	5	Census Tr.	G051
Water Code:	H-03	Sewer Code:	5758200

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

7135 MINSTREL WAY • COLUMBIA, MD. 21045 • (301) 881-7500 BALTO • (301) 621-8100 WASH

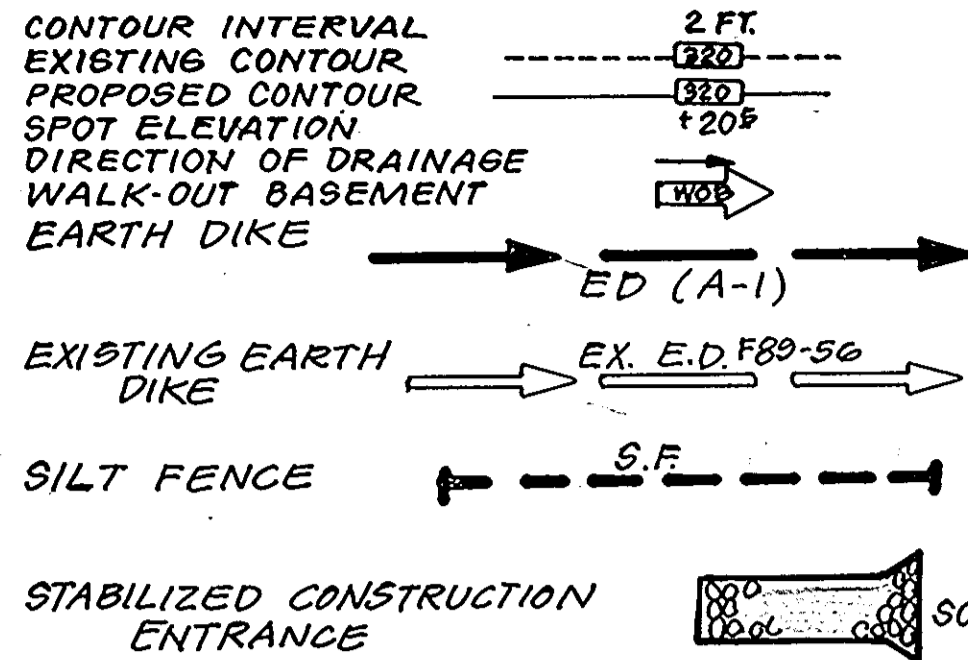
SITE DEVELOPMENT PLAN
LOTS 8-16
COLUMBIA
VILLAGE OF HICKORY RIDGE
SECTION G AREA 2
5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

For: NuHomes
10480 Little Patuxent Pkwy
Columbia, Maryland 21044

SCALE: 1" = 30'
DRAWING: 1 of 2
JOB NO: 89-052
FILE NO: 89-052 X

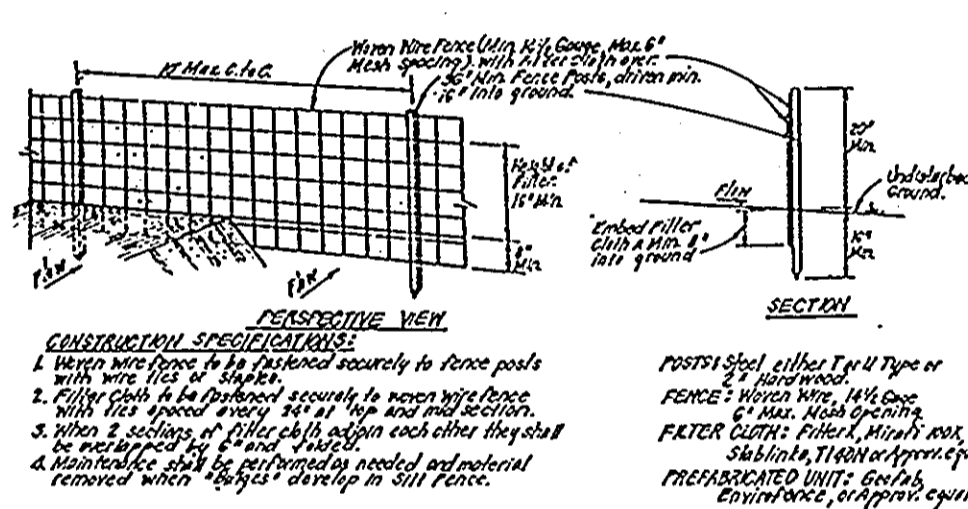


LEGEND



CONSTRUCTION SEQUENCE:

Activity	# OF DAYS
A. Obtain Grading Permit and Install Sediment and Erosion Control Devices and Stabilize.	7
B. Excavate for Foundations and Rough Grade & Temporarily Stabilize.	30
C. Construct Structures, Sidewalks and Driveways.	120
D. Final Grade and stabilize in accordance with Stds. & Specs.	30
E. Upon approval of the sediment control inspector, remove sediment control devices and stabilize.	7



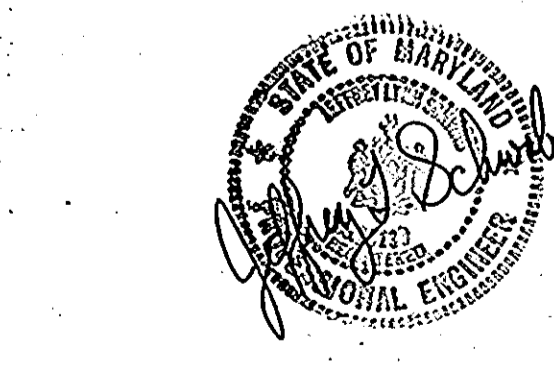
APPROVED
DIVISION OF
COMMUNITY PLANNING
& LAND DEVELOPMENT
HOWARD COUNTY,
MARYLAND
DATE: 6-28-89

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER: [Signature] 7-27-89
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
PLANNING DIRECTOR: [Signature] 8-10-89
DATE: 8/1/89
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE,
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR: [Signature] 7/25/89
DATE: 7-25-89

Reviewed for: HOWARD S.C.D.
Name: [Signature]
Signature: [Signature] 11/18/89
Date: 11/18/89
U.S. Soil Conservation Service
THIS DEVELOPMENT PLAN IS APPROVED
FOR SOIL EROSION AND SEDIMENT
CONTROL BY THE HOWARD SOIL
CONSERVATION DISTRICT.
[Signature] 11/18/89
Date: 11/18/89

TRAP #1 S.O.ST. (ST-X)
D.A. = 1.5 Acres
Storage Required = 2700 LF
Storage Provided = 2700 LF
Depth = 4'
Top of Stone Elev. = 354.0
Bottom Elev. = 349.0
Clean-out Elev. = 351.0
Bottom Dimensions = 4' x 14'
1:1 Side slopes in cut
L = 6'

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 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] 5/30/89
Date: 5/30/89



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.
[Signature] 5/30/89
Date: 5/30/89

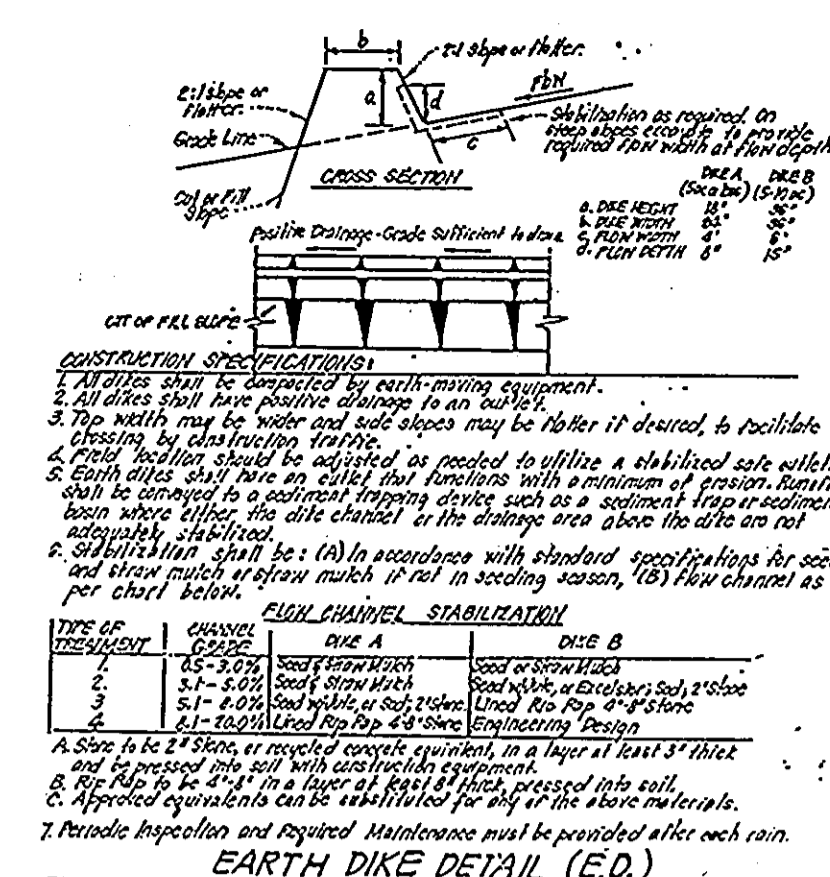
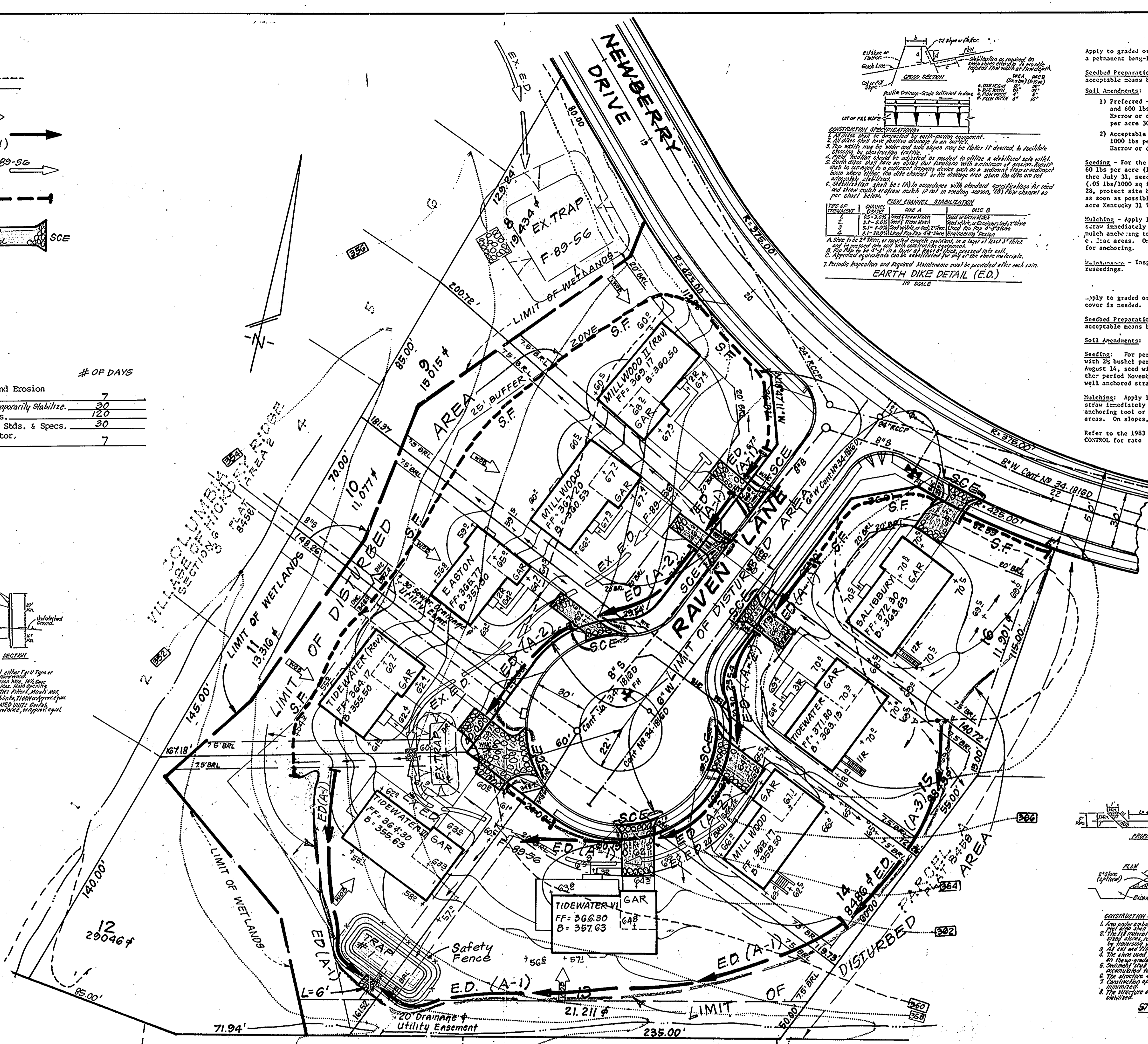
CLARK • FINEFROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS
7186 MONTELEONE WAY • COLUMBIA, MD 21046 • (301) 471-8800 • WASH

DESIGNED: KWM
DRAWN: VLM
CHECKED: KWM
DATE: 5-25-89

SCALE: 1"=30'
DRAWING: 2 of 2
JOB NO.: 89-052
FILE NO.: 89-0525E

SEDIMENT AND EROSION CONTROL PLAN
LOTS 8-16
COLUMBIA
VILLAGE OF HICKORY RIDGE
SECTION 6 AREA 2
5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
For: N/Homes
10480 Little Patuxent Pkwy
Columbia, Maryland 21044

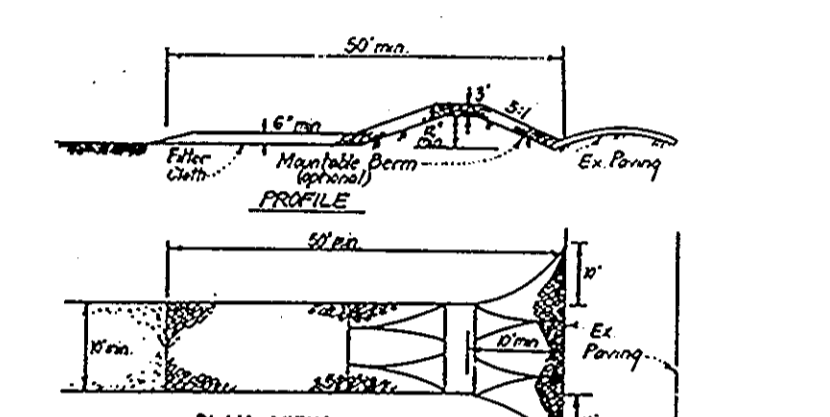
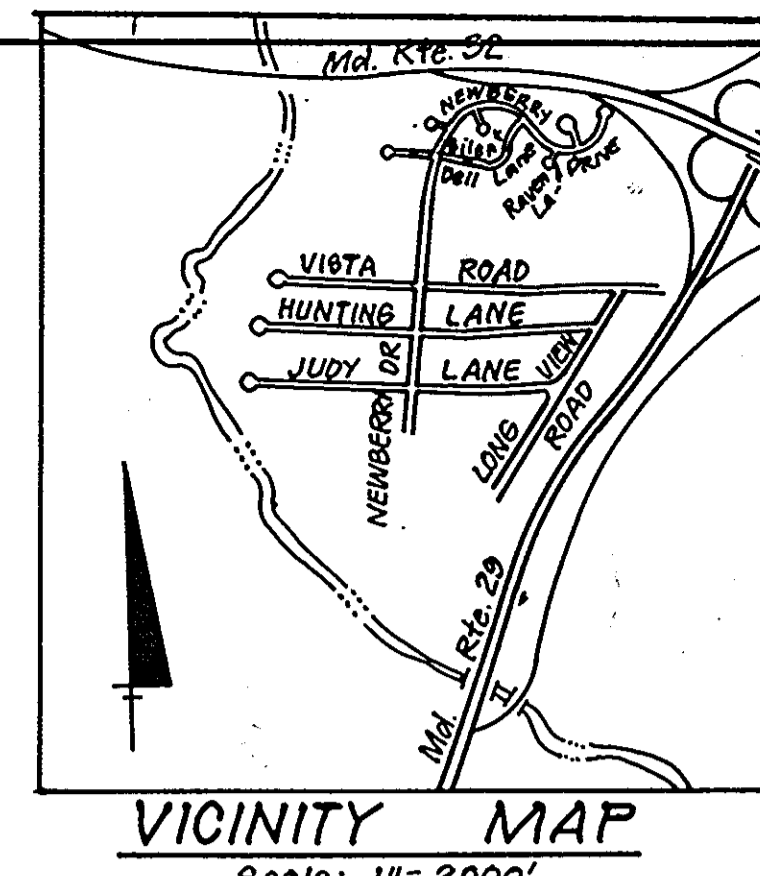
Subdivision Name - COLUMBIA Village of Hickory Ridge
Block No. 8454
Zone Co NewTown
Taxl Map# 41
Elec. Dist. 5
Census Tr. 6051
Water Code: H-03
Sewer Code: 5758200



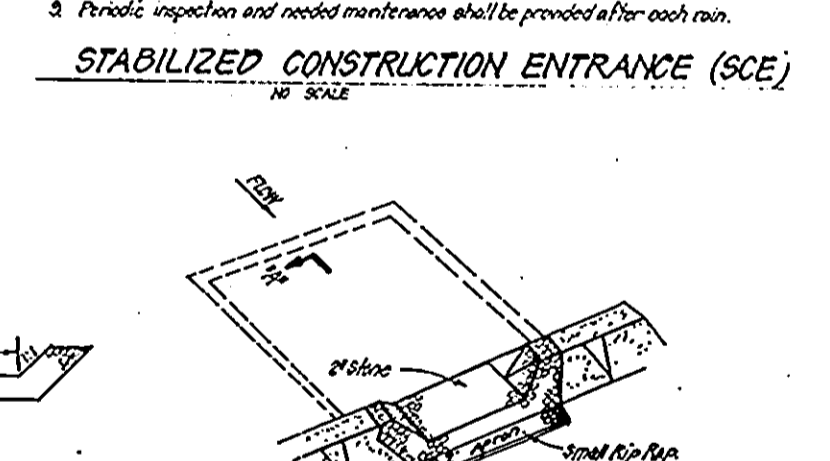
PERMANENT SEEDING NOTES
Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.
Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened.
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/1000 sq ft) 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 time of seeding, apply 400 lbs per acre 30-0-0 urea-form 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 of 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 gallon per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes, 8 feet or higher, use 348 gallon per acre (8 gal/1000 sq ft) for anchoring.
Maintenance: Inspect all seeded areas and make needed repairs, replacements and reseedings.

TEMPORARY SEEDING NOTES
Apply to graded or cleared areas likely to be redistributed 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, 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 25 bushel 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 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 gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes, 8 feet or higher, use 348 gal 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.

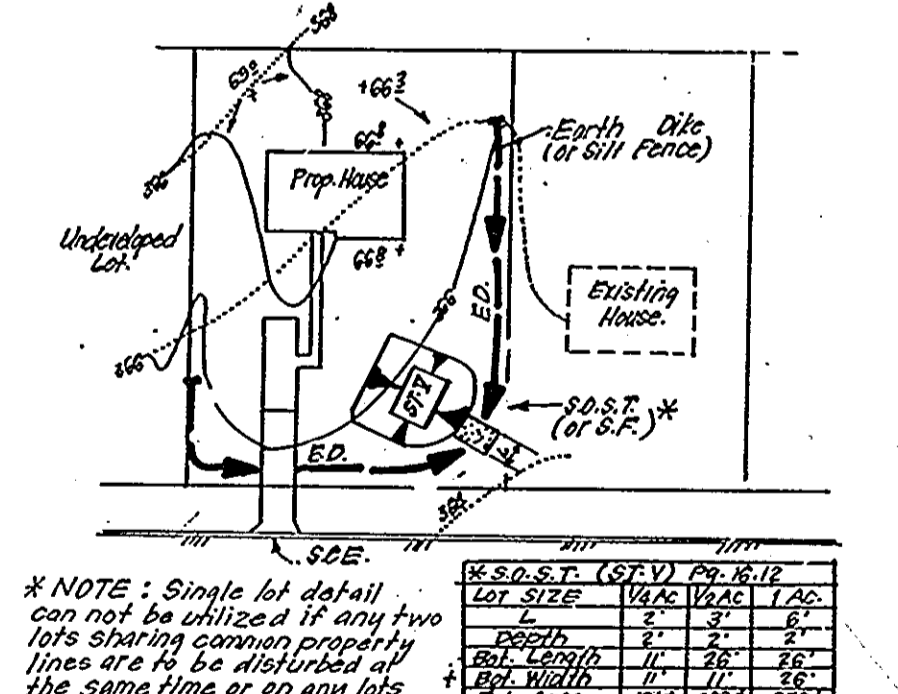
SEDIMENT CONTROL NOTES
1) A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (992-2437)
2) All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
3) Following initial soil disturbance or redistribution, 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, 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 perimeter 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) and (Sec. 52). Temporary stabilization with mulch alone can only be done on 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: 3.19 Acres
Area Disturbed: 2.12 Acres
Area to be roofed or paved: 0.58 Acres
Area to be vegetatively stabilized: 1.54 Acres
Total Cut: 1905 Cu. Yds
Total Fill: 2180 Cu. Yds
Offsite waste/borrow area location: N/A
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 DPM 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 a "lot-to-lot" basis, as follows, Single Lot Sediment Control as shown below shall be implemented.
12) All pipes to be blocked at the end of each day (soo detail below).
13) The total amount of straw bales/silt fence equals 230 L.F.



CONSTRUCTION SPECIFICATIONS
1. Stone Size - Use 2" stone, or rounded 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 slopes or curves occur.
5. Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will be replaced as soon as it is found to be ineffective. All sediment and debris will be removed from the filter cloth as it is replaced.
6. Surface Water - All surface water flowing or directed toward construction entrances shall be spread across the entrance. If piping is impractical, a manhole with a 2' diameter will be installed.
7. Maintenance - The entrance shall be maintained in a condition which will prevent erosion or other damage. The entrance shall be inspected and maintained as needed. The entrance shall be replaced as soon as it is found to be ineffective. All sediment and debris will be removed from the filter cloth as it is replaced.
8. Warning - Signs shall be placed to warn of the entrance and to indicate that the entrance is to be maintained in a condition which will prevent erosion or other damage.
9. Periodic inspection and needed maintenance shall be provided for each one.



STONE OUTLET SEDIMENT TRAP (S.O.ST.) STD.
CONSTRUCTION SPECIFICATIONS:
1. An easily maintained trap to be placed, graded and sloped of any vegetation and root mat. The trap shall be 4' deep.
2. The material for the construction shall be free of roots and other debris as well as excess soil. The material shall be compacted.
3. All cut and fill shall be 2' or more.
4. The stone used in the outlet shall be 2" or more.
5. The outlet shall be 4' deep and 4' wide with a thickness of 2' aggregate placed on these areas with the small top of the outlet (filter cloth) in the center.
6. Sediment shall be removed from the trap as it is required. The outlet shall be maintained in a condition which will prevent erosion or other damage.
7. Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
8. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.



* NOTE: Single lot detail can be utilized if lot area two lots sharing common property lines are to be disturbed at the same time or two lots showing a sediment trap.

Lot No.	Block No.	Zone	Taxl Map#	Elec. Dist.	Census Tr.
8454	Co	NewTown	41	5	6051

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DRAWN: VLM
CHECKED: KWM
DATE: 5-25-89

SCALE: 1"=30'
DRAWING: 2 of 2
JOB NO.: 89-052
FILE NO.: 89-0525E

SEDIMENT AND EROSION CONTROL PLAN
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