

VICINITY MAP
Scale: 1" = 2000'

SPECIAL NOTES

- All work shall be done in accordance with Howard County Standards, Specifications and details for construction. All roads and details for construction, storm drainage facilities, construction, storm water and sewer are shown for reference only. Use approved Howard County plans for all phases of construction.
- The wetland stream buffer shown on this site plan does not affect the initial construction of a residential unit on a lot it does prohibit subsequent clearing, grading or construction in the buffer area. Maintenance of residences, landscaping and utilities permitted.
- All work shall be done in accordance with Howard County Design Manual, Volume III, Standards, Specifications and Details for Construction, 1988 Amendments.
- Stormwater Management provided by F-90-91.
- 10' Tree Maintenance easement along all road frontages.

GENERAL NOTES

- Subject property zoned NTSFLD as per B 2 85 Comprehensive Zoning Plan.
- The coordinates shown hereon are based on The Maryland State Grid System and derived from the following Howard County Control Stations 2340010 and 2340005.
- All roadways are public and existing.
- Total area included in this submission: 113,809 sq ft or 2.6126 Ac.
- Total number of lots: 5
- Any damage to county owned right-of-ways shall be corrected at the Developer's expense.
- Maximum lot coverage is 30%.
- Reference plans S-89-07, P-89-64, WP-89-155, WP-89-07, F-90-91 & FDP-206.
- The Contractor or Developer shall contact the Construction Inspection Division, 24 hours in advance of commencement of work at 752-2630.
- The existing topography shown was taken from road construction plans prepared by John E. Harris Jr. and Assoc. Inc. Improvement to property Single Family Detached Unit.

LEGEND

- Contour Interval: 2 FT.
- Existing Contour: ---
- Proposed Contour: - - - -
- Spot Elevation: +10
- Direction of Drainage: →
- Walk out Basement: [Symbol]
- Ex. Trees to be saved: [Symbol]
- Construction Fence for tree protection to be adjusted as necessary: [Symbol]

LOT NO.	STREET ADDRESS
7	6815 Caravan Court
8	6819 " "
9	6823 " "
10	6827 " "
11	6831 " "

THE PURPOSE OF THIS REVISED SDP IS TO REVISE THE HOUSE TYPES ON LOTS 7-11 FROM HALLMARK BLDG, INC. TO PATRIOT HOMES, INC. TYPE UNITS

OWNER / DEVELOPER
HOWARD RESEARCH & DEVELOPMENT CORP
10275 LITTLE PATUXENT PKWY
Columbia, Maryland 21044

Subdivision Name	COLUMBIA	Sect./Area	6/4	Lots	7-11
Village of Hickory Ridge					
Plot No.	9345-9349	Block No.	5, 2, 3	Zone	NTSFLD
Water Code	E25	Sever Code	6880000		

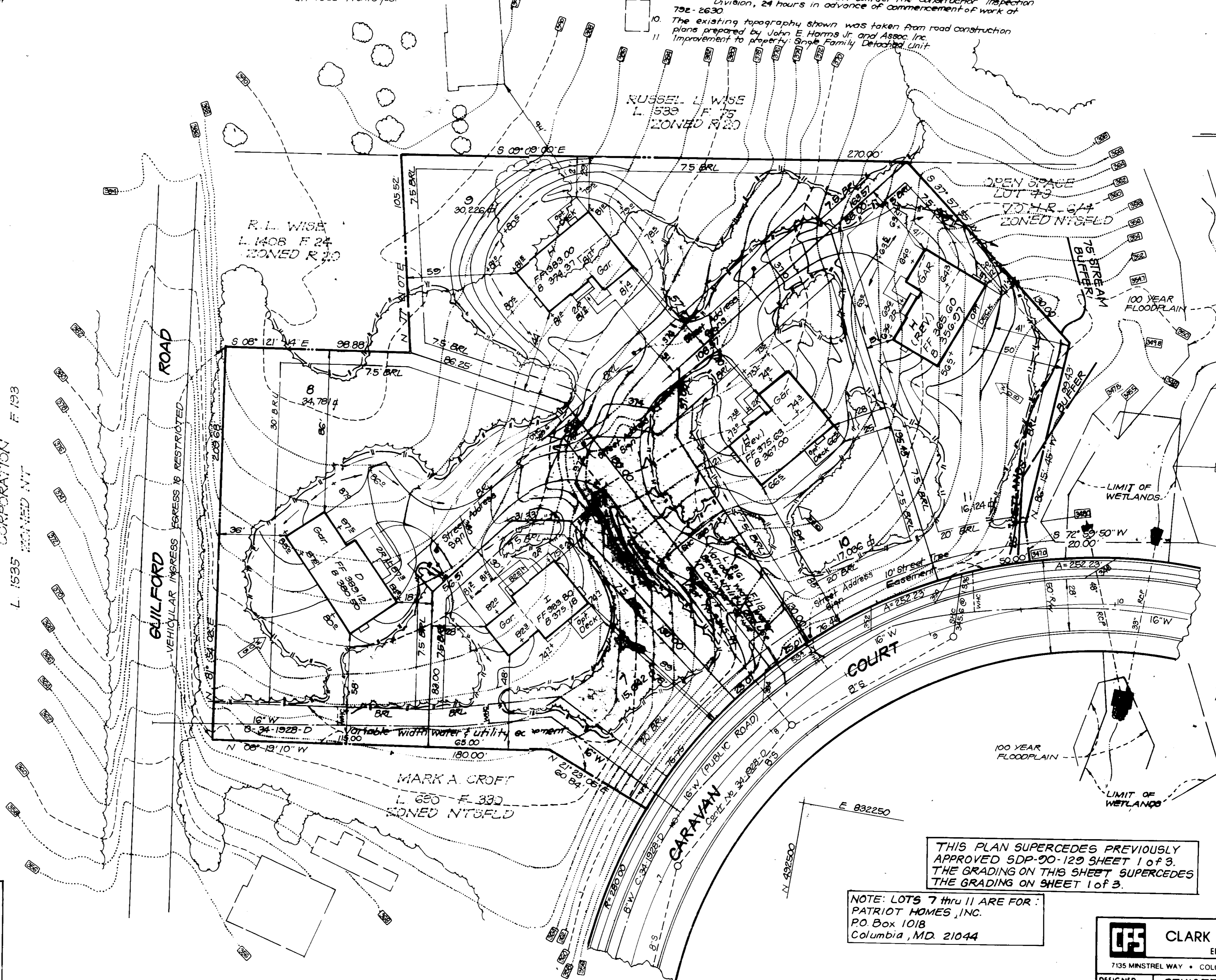
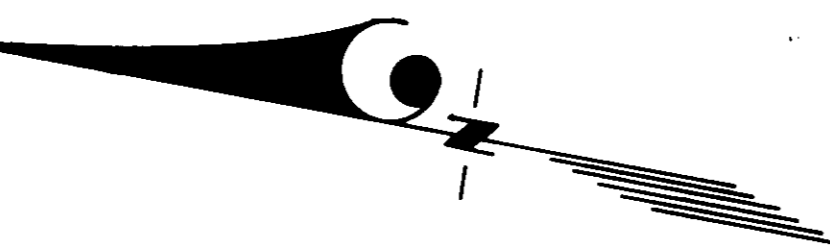
NOTE: LOTS 7 thru 11 ARE FOR PATRIOT HOMES, INC. PO Box 1018 Columbia, MD. 21044

THIS PLAN SUPERCEDES PREVIOUSLY APPROVED SDP-20-129 SHEET 1 of 3. THE GRADING ON THIS SHEET SUPERCEDES THE GRADING ON SHEET 1 of 3.

CLARK • FINEFROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS
7135 MINSTREL WAY • COLUMBIA, MD 21045 • (301) 381-7900 - BALTO • (301) 621-8100 - WASH

DESIGNED	VLP/JME	REVISIED SITE DEVELOPMENT PLAN	SCALE	1" = 30'
DRAWN	BAL	LOTS 7 thru 11	DRAWING	1 of 3
CHECKED	JME	PATUXENT RUN	JOB NO.	88-162
DATE	Nov, 1991	(VILLAGE OF HICKORY RIDGE)	FILE NO.	2-141-X

FOR: HALLMARK BUILDERS, INC.
P.O. Box 1008
Columbia, Maryland 21044



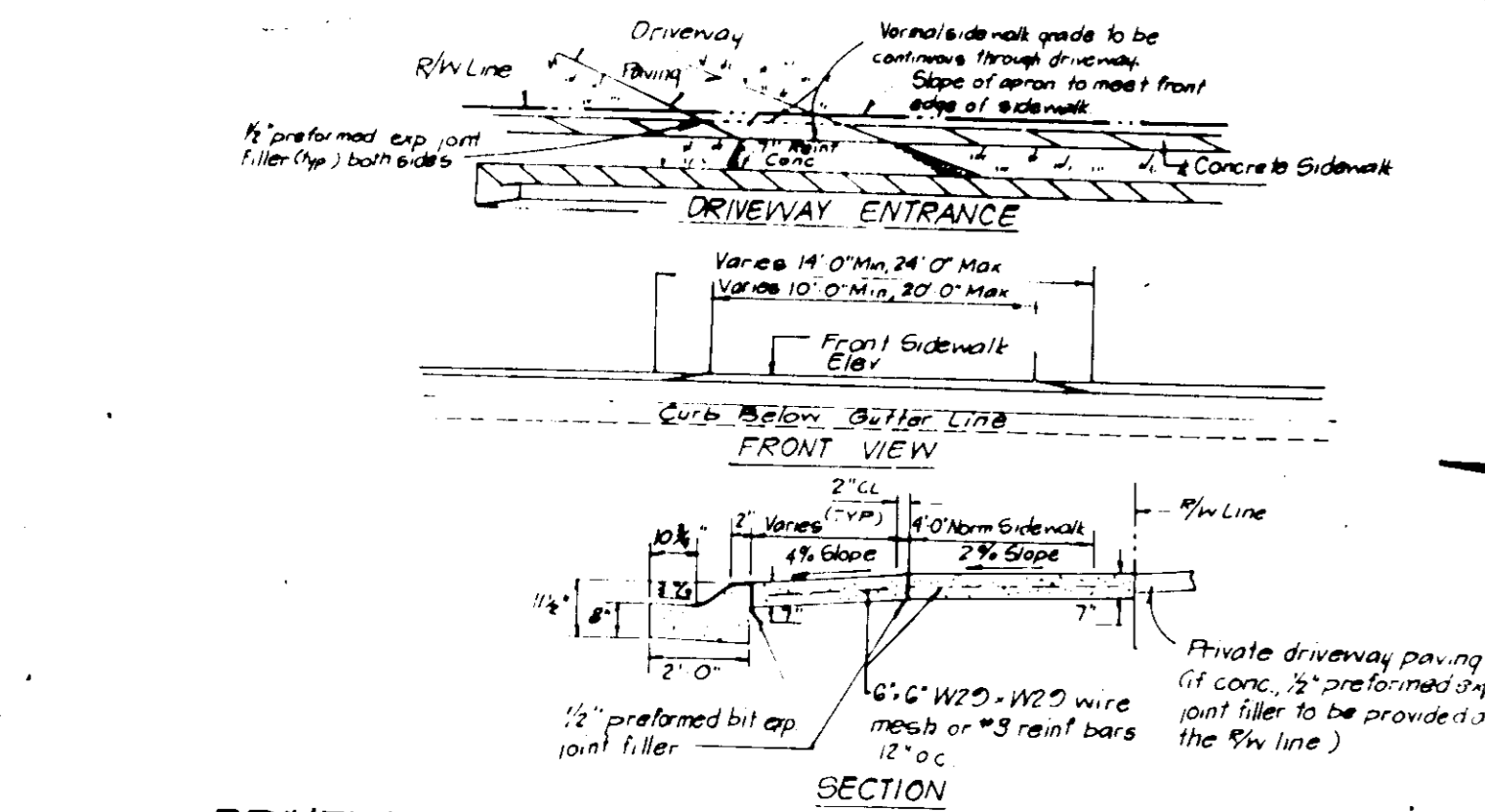
HOWARD RESEARCH AND DEVELOPMENT CORPORATION F 193 L 1535 ZONED NT

GUILFORD ROAD - VEHICULAR IMPRESS EGRESS IS RESTRICTED

MARK A. CROFT L 650 F 380 ZONED NTSFLD

RUSSEL L WISE L 1538 F 75 ZONED R 20

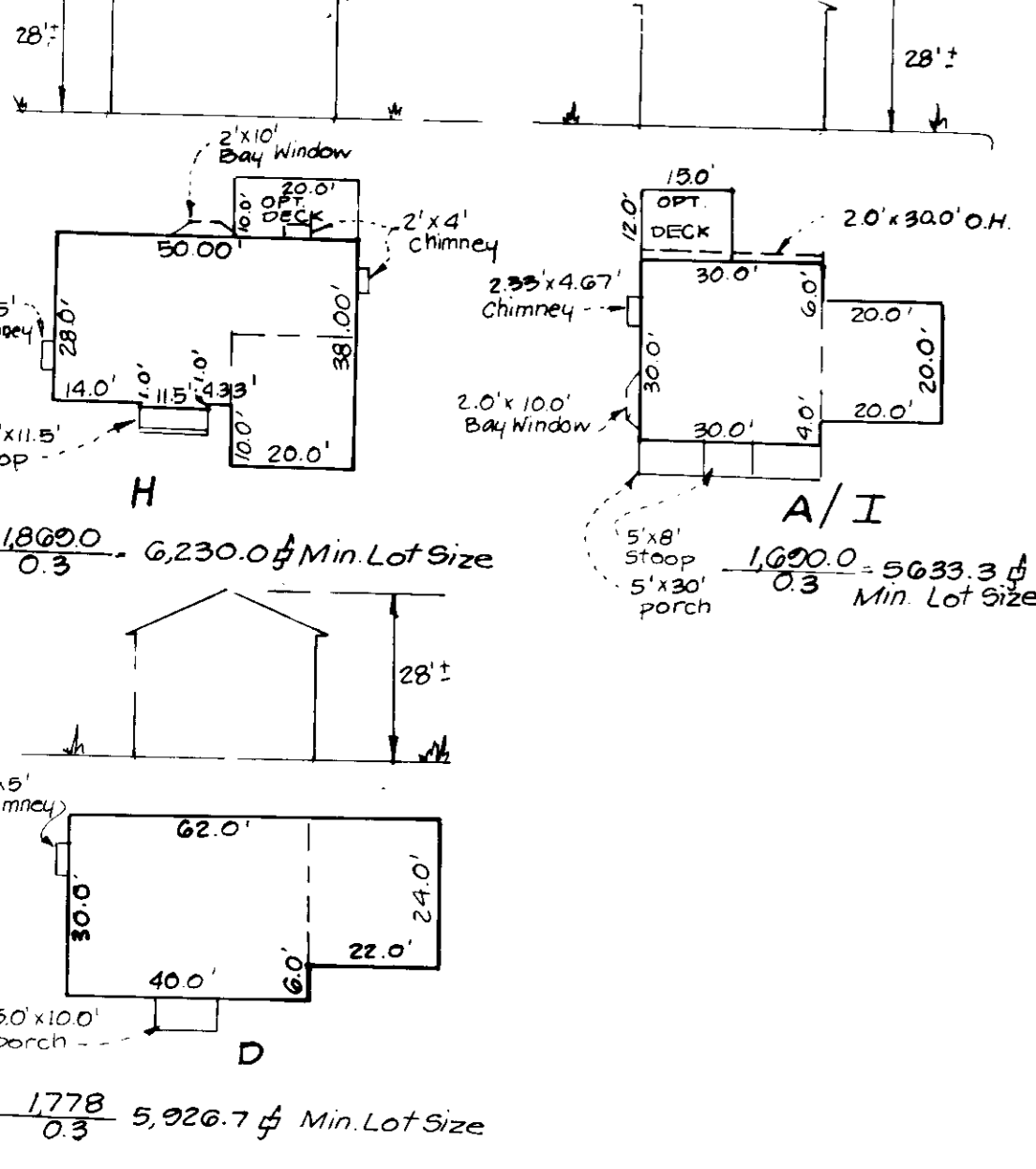
R.L. WISE L 1408 F 24 ZONED R 20



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

TYPICAL HOUSES
Scale: 1" = 30'

NOTE: All units have 1" roof eaves front & rear.



PAVEMENT MATERIALS

FULL DEPTH BIT CONG. ALT.	GRAVEL BASE ALTERNATIVES
1" Bit Conc. Surface	1" Bit Conc. Surface
4" Bit Conc. Base	2" Bit Conc. Base
	PRIME
	Crusher Run Base
	Aggregate Base Course

SECTION P-1
No Scale
Paving Section for use in common drive

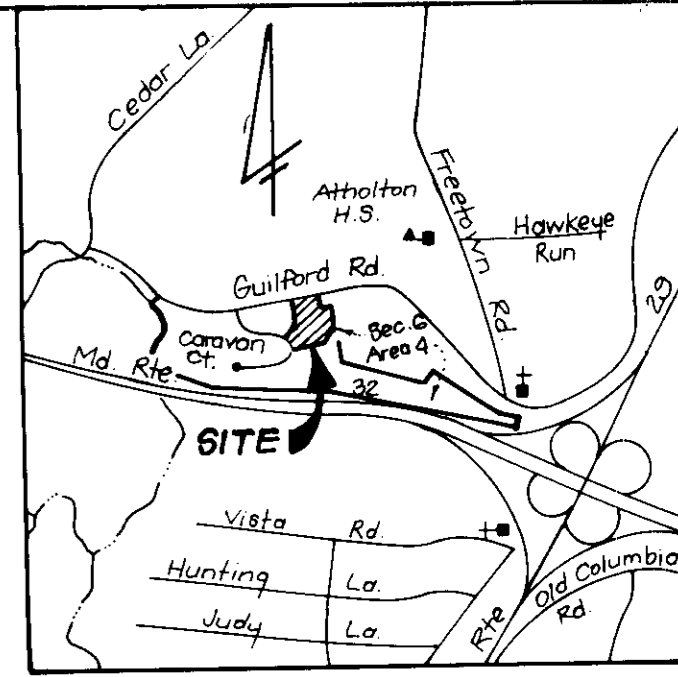
NO	Revision	Date
1	Raise Hses and Revise grading by 1'-0" as per client's request, on Lots 7, 9, 10 and 11.	6-6-90
2	Rev. hse & grad. lot 8 & 10	3-19-92
3	Rev. hse & grad. lots 7 & 9, Add hse. typical	4-16-92

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

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

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

CHIEF BUREAU OF ENGINEERING M.K.



VICINITY MAP
Scale 1" = 2000'

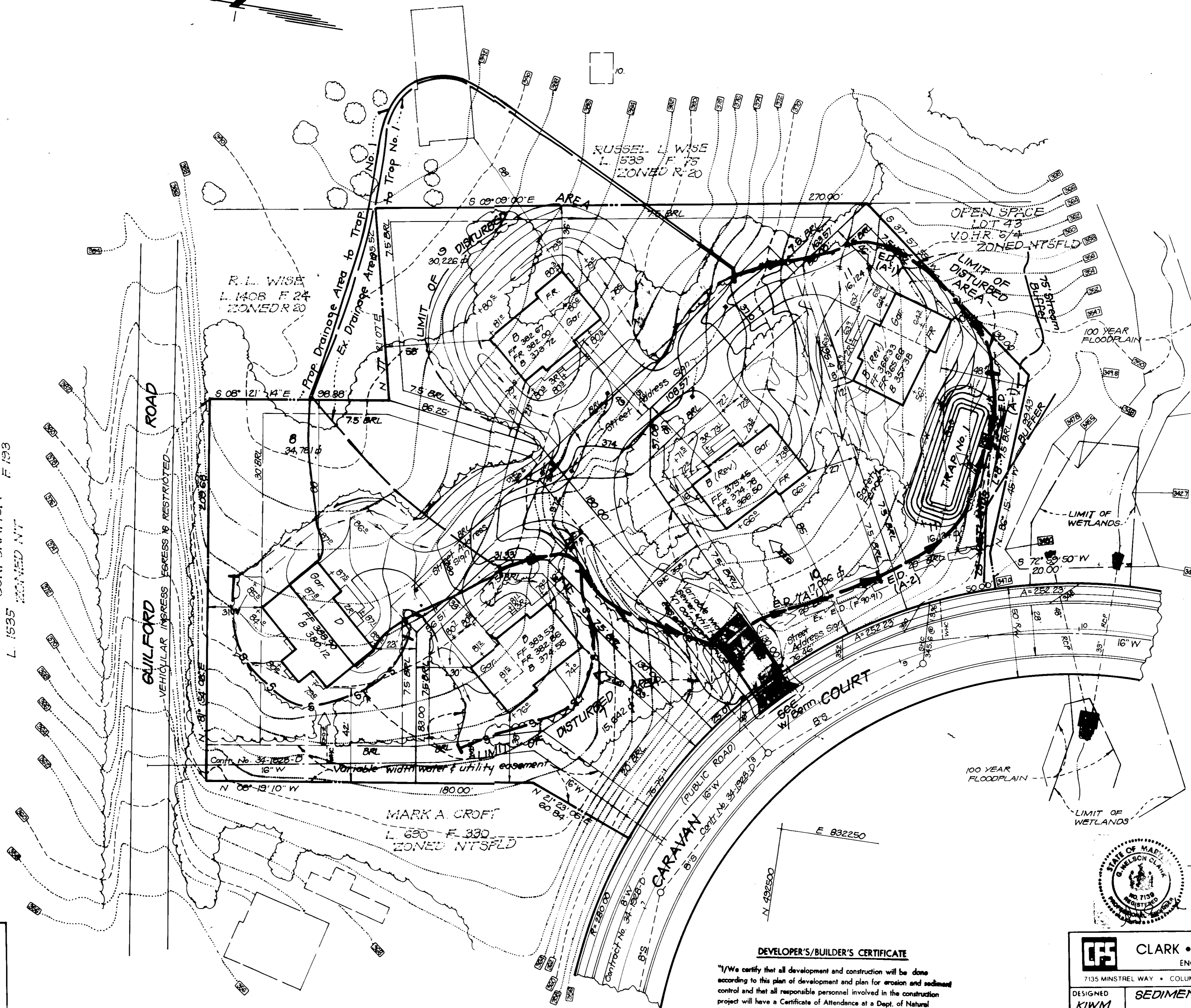
TRAP No. 1 SOST. ST. V

Drainage Area 2.0 Ac.
Storage Required 3600 of
Storage Provided 3600 of
Depth 4'
Top of Stone Crest 351.0
Bottom Elev. 346.0
Clean out Elev. 345.0
Bottom Dimensions 56' x 11'
1:1 Side Slopes in cut
L=8'

LEGEND

- Contour Interval 2 FT.
- Existing Contour
- Proposed Contour
- Spot Elevation
- Direction of Drainage
- Ex. trees to be saved
- Earth Dike
- Silt Fence
- Stabilized Construction Entrance

HOWARD RESEARCH AND DEVELOPMENT CORPORATION F.193
L. 1535 ZONED NT



Reviewed for HOWARD S.C.D.
Name
and meets Technical Requirements
 4/17/90
Signature Date
U.S. Soil Conservation Service

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

Approved
4/17/90 Date

OWNER / DEVELOPMENT
HOWARD RESEARCH & DEVELOPMENT CORP.
10275 Little Patuxent Pkwy.
Columbia, Maryland 21044

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.

4-18-90
G. Nelson Clark Date



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."

4/18/90
Signature of Developer/Builder Date

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT	4-25-90 DATE
APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING	4-30-90 DATE
DIRECTOR CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	4-23-90 DATE
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	4-23-90 DATE

CLARK • FINEROCK & SACKETT, INC. ENGINEERS • PLANNERS • SURVEYORS	
7135 MINSTREL WAY • COLUMBIA, MD 21045 • (301) 381-7500 - BALTO • (301) 621-8100 - WASH	
DESIGNED KIWM	SEDIMENT & EROSION CONTROL PLAN LOTS 7 thru 11 PATUXENT RUN (VILLAGE OF HICKORY RIDGE) SECTION 6 5TH ELECTION DISTRICT HOWARD COUNTY MARYLAND
DRAWN BAL	SCALE 1" = 30'
CHECKED KIWM	DRAWING 2 OF 3
DATE JAN 1999	JOB NO 89-164
	FILE NO 89-162
	FOR: HALLMARK BUILDERS, INC. P.O. Box 1058 Columbia, Maryland 21044

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, 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 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) 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	2.61 Acres
Area Disturbed	1.69 Acres
Area to be roofed or paved	0.88 Acres
Area to be vegetatively stabilized	1.72 Acres
Total Cut	997 Cu. yds
Total Fill	283 Cu. yds
Offsite waste/borrow area location	undetermined
- 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 an "As-Sold" basis, at Random, Single Lot Sediment Control as shown below shall be implemented.
- 12) All pipes to be blocked at the end of each day (see detail below). N/A
- 13) The total amount of straw bale dikes/silt fence equals 270 L.F.

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 ureaform 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 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, replacements and reseeds.

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redistributed where a short-term vegetative cover is needed.

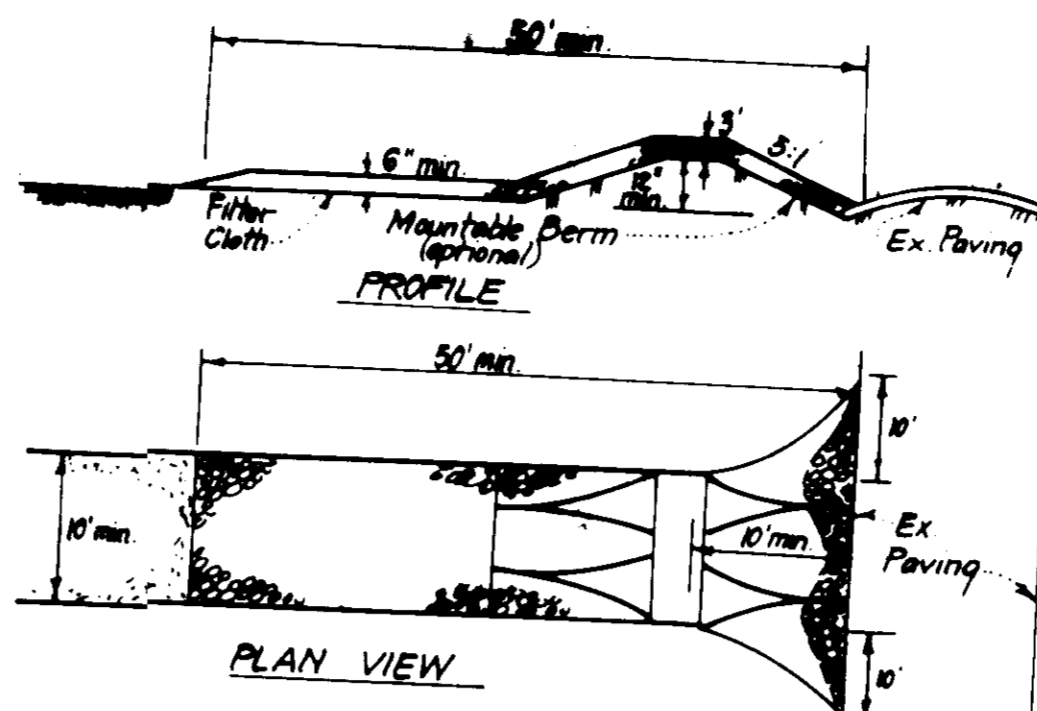
Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened.

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 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.

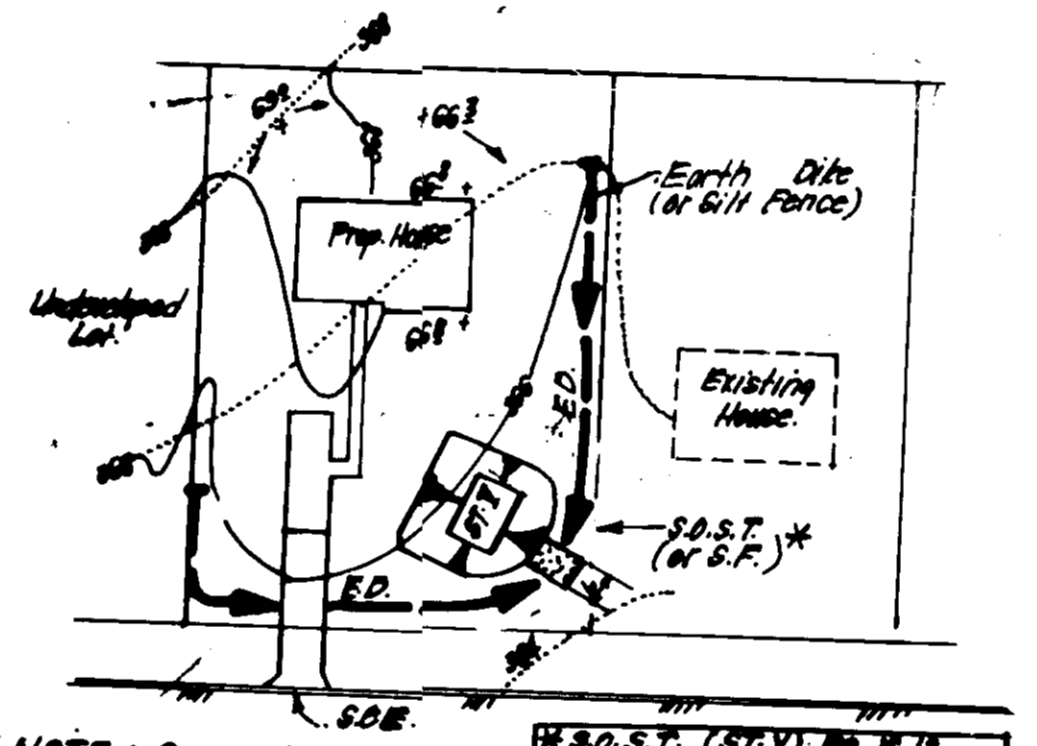
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Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.



- 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) feet minimum, but not less than the full width of 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 manure 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 to be conditionally cleaned and repaired and/or cleaned of any materials 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 using a trapping device.
 9. Periodic inspection and needed maintenance shall be provided after each rain.

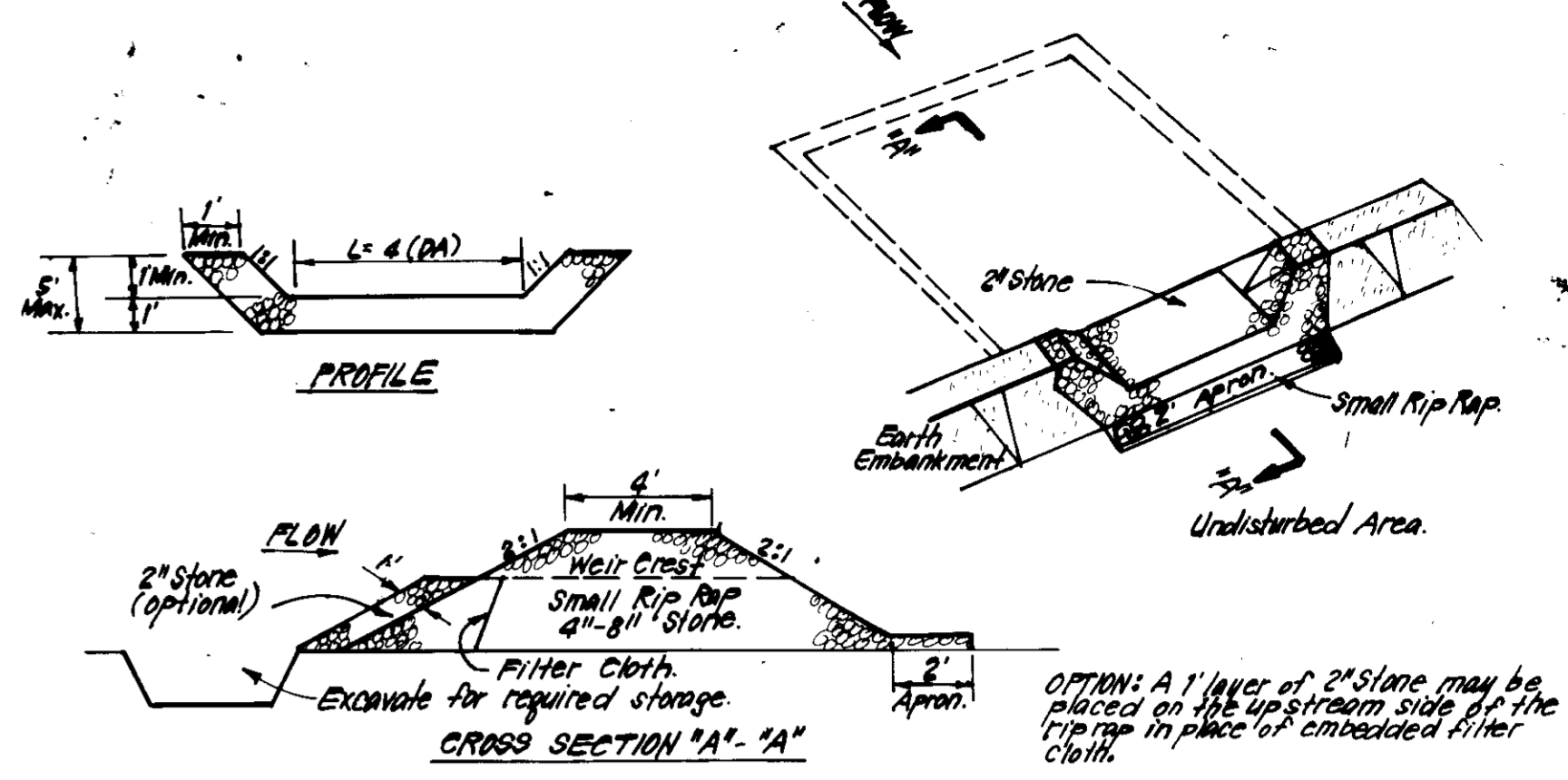
STABILIZED CONSTRUCTION ENTRANCE (SCE)
NO SCALE



* 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.

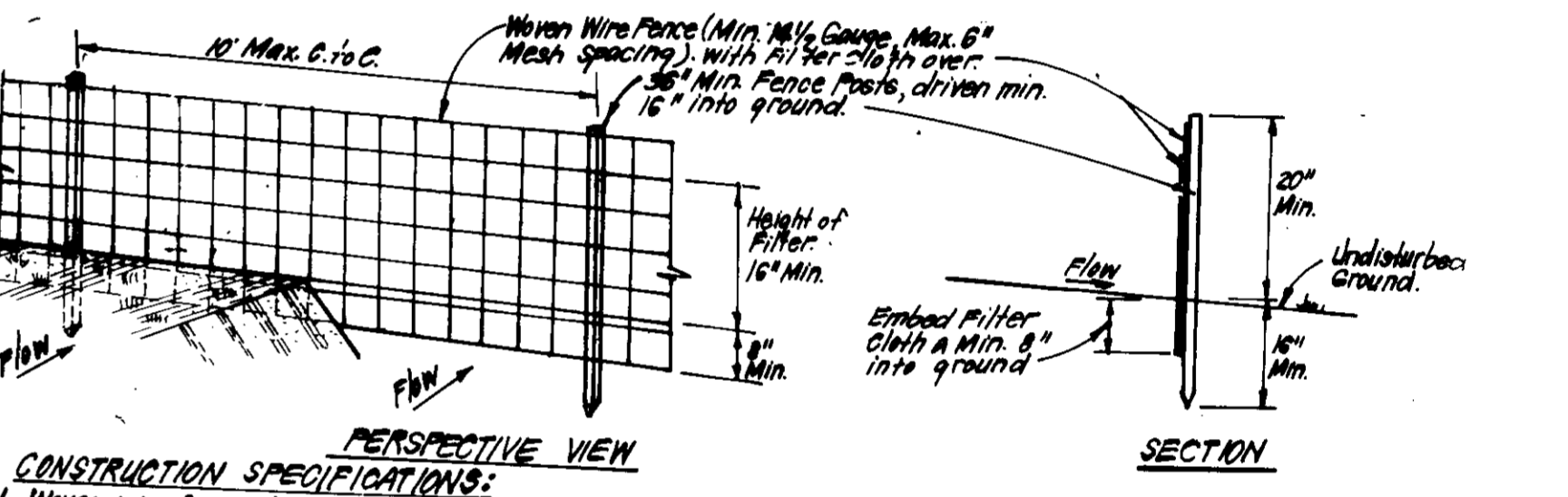
TYPE OF CHANNEL	CHANNEL GRADE	DIKE A	DIKE B
1	0.5 - 3.0%	Sod or Straw Mulch	Sod or Straw Mulch
2	3.1 - 5.0%	Sod or Straw Mulch	Sod or Straw Mulch
3	5.1 - 8.0%	Sod or Straw Mulch	Sod or Straw Mulch
4	8.1 - 20.0%	2" Stone or Recycled Concrete Equivalent	2" Stone or Recycled Concrete Equivalent

EARTH DIKE DETAIL (E.D.)
NO SCALE



- CONSTRUCTION SPECIFICATIONS:**
1. Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The soil grade shall be compacted.
 2. The fill material for the embankment shall be free of roots and other woody vegetation as well as oversized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
 3. All cut and fill slopes shall be 3:1 or flatter.
 4. The stone used in the outlet shall be small rip rap 4"-8" along with 1" thickness of 2" aggregate placed on the upstream side of the small rip rap or embedded filter cloth in the rip rap.
 5. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap.
 6. The structure shall be inspected after each rain and repairs made as needed.
 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.

STONE OUTLET SEDIMENT TRAP (S.O.S.T.) ST.V.
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 108 spaced every 36" at top and mid section.
 3. When 2 sections of filter cloth adjoin each other they shall be overlapped 12" and stapled.
 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, 1/4" Gauge
1" Max. Mesh Opening
FILTER CLOTH: Filter Cloth, 1" Min. Max. Mesh Opening
PREFABRICATED UNIT: Silt Fence, 10' Long, 10' High, 1" Mesh, 1/4" Gauge

SILT FENCE DETAIL (S)
NO SCALE

CONSTRUCTION SEQUENCE:

	No. of Days
A. Obtain Grading Permit and Install Sediment and Erosion Control Devices and Stabilize.	7
B. Excavate for Foundations and Rough Grade of 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 and erosion controls and stabilize.	7

* Delay construction of house on Lot 11 until trap NO. 1 is removed.

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER: [Signature] DATE: 4-25-90

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
DIRECTOR: [Signature] DATE: 4-20-90
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE.
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR: [Signature] DATE: 4-28-90
CHIEF BUREAU OF ENGINEERING

Reviewed for... HOWARD... S.C.U.
Name: [Signature]
and meets Technical Requirements
Signature: [Signature] Date: 4/17/90
U.S. Soil Conservation Service

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

Approved: [Signature] 7/17/90 Date

DEVELOPER'S/BUILDER'S CERTIFICATE

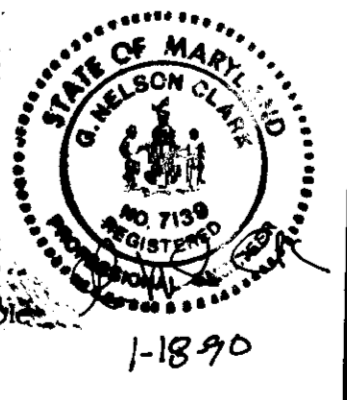
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Signature of Developer/Builder: [Signature] Date: 1/18/90

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: [Signature] Date: 1-18-90
G. Nelson Clark



OWNER / DEVELOPER
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Columbia, Maryland 21044

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ENGINEERS • PLANNERS • SURVEYORS
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DESIGNED: KIWM
DRAWN: BAL
CHECKED: KIWM
DATE: JAN 1990

SEDIMENT & EROSION CONTROL PLAN
LOTS 7 thru 11
PATUXENT RUN
VILLAGE OF HICKORY RIDGE
SECTION 6 AREA 4
5TH ELECTION DISTRICT
HOWARD COUNTY MARYLAND

SCALE: AS SHOWN
DRAWING: 3 OF 3
JOB NO: 89-162
FILE NO: 89-162 36

FOR: HALL MARK BUILDERS, INC.
P.O. Box 1058
Columbia, Maryland 21044