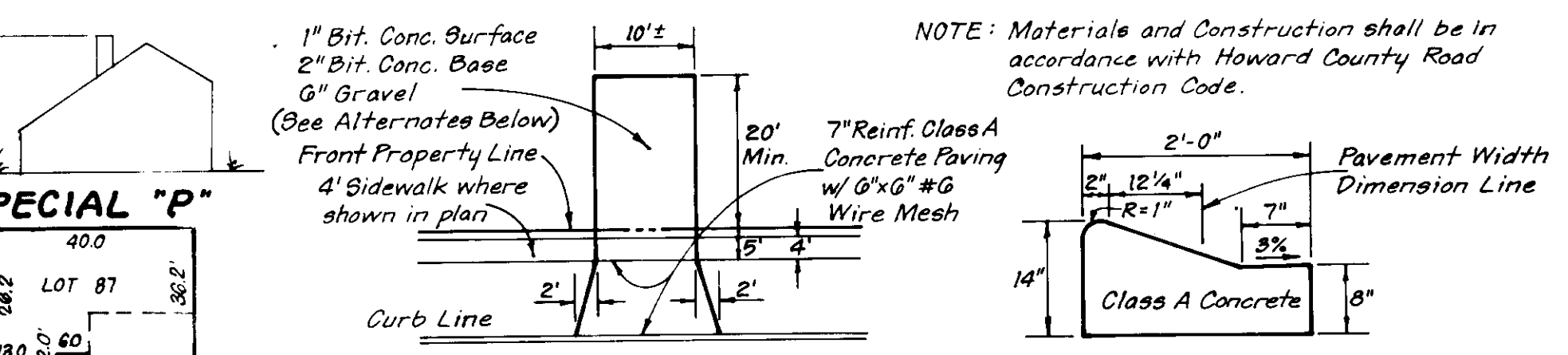


LONG GATE
SECT. 1 AREA 1
OPEN SPACE LOT 9
ZONED R9C

LONG GATE
SECT. 1 AREA 2
OPEN SPACE LOT 60
ZONED R9C



DRIVEWAY ABUTTING MOD. COMB. CURB & GUTTER*

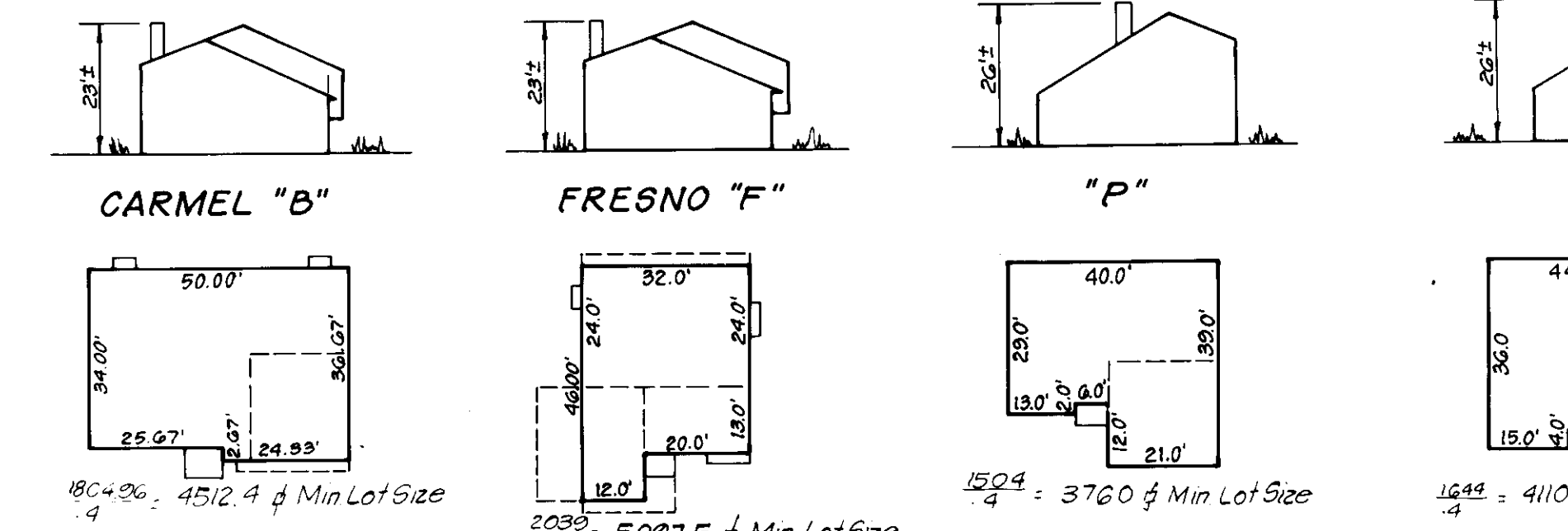
Alternate #1
1" Bit. Concrete Surface
4" Bit. Concrete Base

Alternate #2
1" Bit. Concrete Surface
3" Bit. Concrete Base
3" Gravel

* See Ho. Co. Std. R-301 for Std. 7" Comb. Curb and Gutter necessary on Lots in Cul-de-Sac.

LEGEND

Contour Interval 2 Ft.
Existing Contour 500
Proposed Contour 390
Spot Elevation +87±
Direction of Drainage
Ex. Trees to be Saved
Walk-Out Basement



TYPICAL HOUSES
NO SCALE

GENERAL NOTES

- All coordinates are based on Howard County Control Station Nos. 3043001-R and 3043002-R.
- Total Number of Lots: 20 Total Number of Units: 20
- The total area included in this plan is 3.46 Acres.
- All roadways are public and existing.
- Any damage to county owned rights-of-way shall be corrected at the developer's expense.
- The contractor or developer shall contact the Construction Survey Division, 24 hours in advance of commencement 992-2417 or 992-2418.
- The maximum Lot coverage is 40% per lot.
- Stormwater Management for Long Gate 1/3 is provided F-86-95.

SPECIAL NOTES:

Approved Road Construction Plans shall be used for all Public Utilities.

Public Water and Sewer shown for reference only. For more detailed information see water and sewer plans Contract No. 24-1511-D.

LOT No.	STREET
73	8547
74	8551
75	8555
76	8559
77	8563
78	8567
79	8571
80	8575
81	8579
82	8583
83	8587
84	8591
85	8595
86	8599
87	8603
88	8607
89	8611
90	8615
91	8619
92	8623

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

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE: 10-10-86

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

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

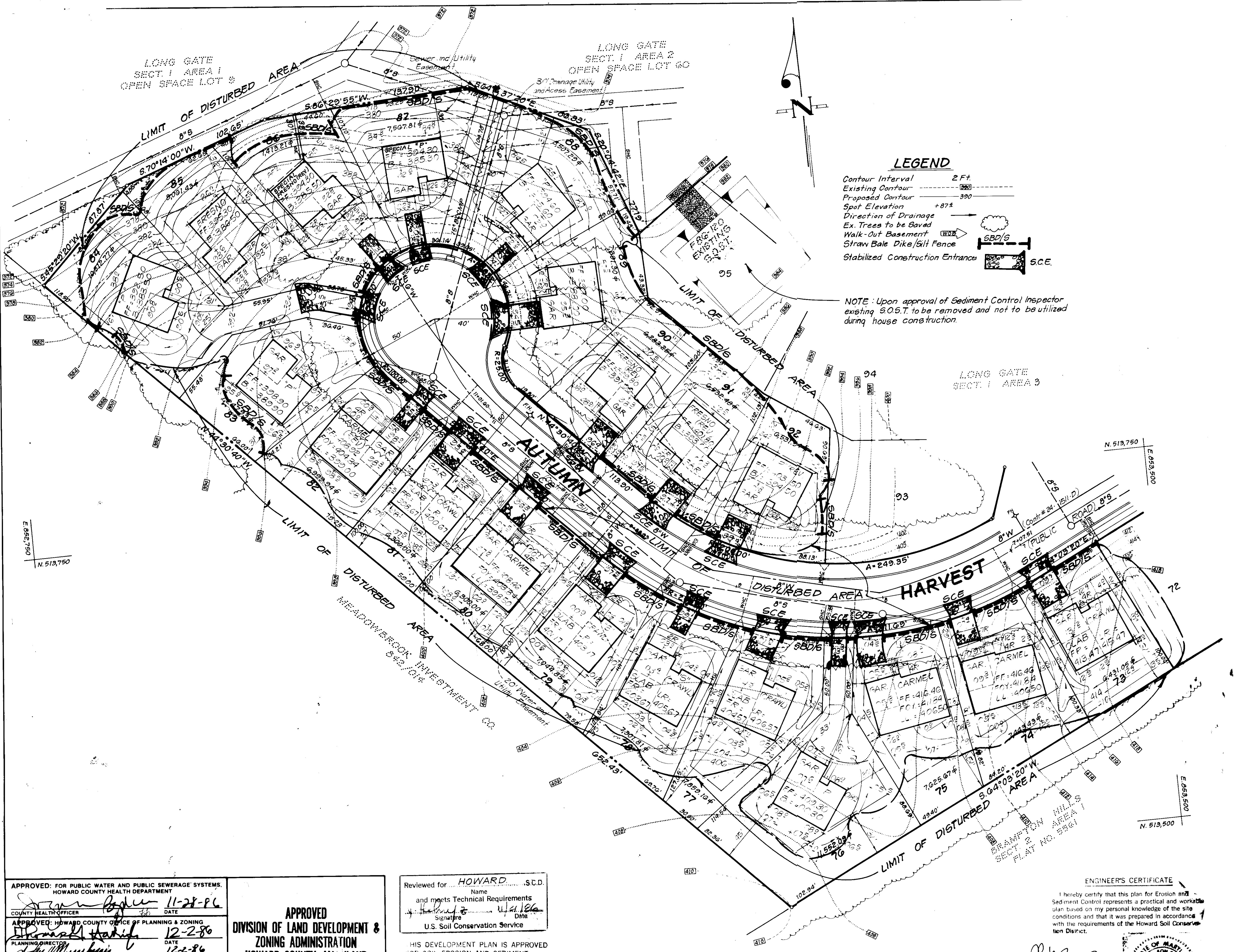
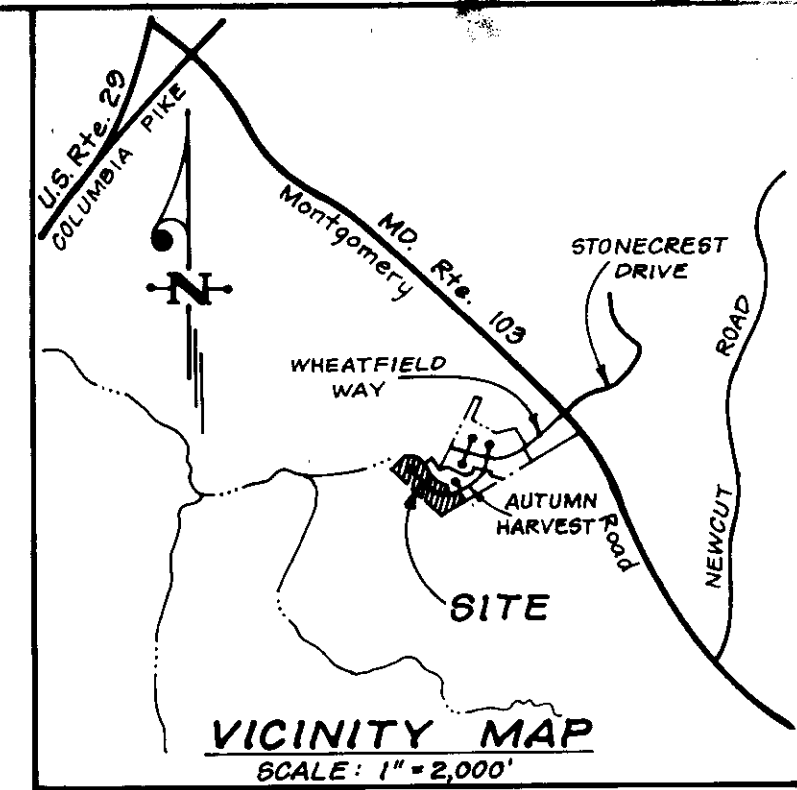
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE: 10-10-86

CLARK · FINEFROCK & SAUNDERS
ENGINEERS · PLANNERS · SURVEYORS
11315 LOCKWOOD DRIVE · SILVER SPRING, MARYLAND 20904

DESIGNED: C.J.S.
DRAWN: L.A.I.
CHECKED: J.M.E.

DATE: August, 1986

FOR: ALLAN HOMES, INC.
P.O. Box 1058
Columbia, Maryland 21044



LEGEND

- Contour Interval 2 Ft.
- Existing Contour 390
- Proposed Contour 390
- Spot Elevation +87.2
- Direction of Drainage
- Ex. Trees to be Saved
- Walk-Out Basement
- Straw Bale Dike/Gilt Fence
- Stabilized Construction Entrance

NOTE: Upon approval of Sediment Control Inspector existing S.O.S.T. to be removed and not to be utilized during house construction.

DEVELOPER'S/BUILDER'S CERTIFICATE

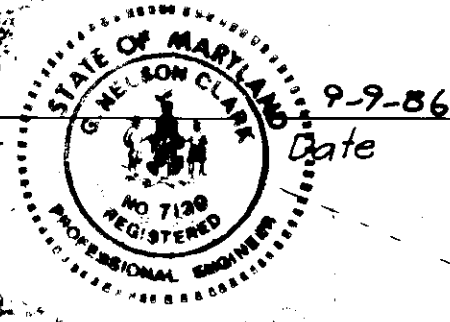
"We certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. of Natural Resources Approved Training 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."

Allan Washak
Signature of Developer/Builder
ALLAN WASHAK
Date 9-9-86

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
G. Nelson Clark
Date 9-9-86



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER [Signature] DATE 11-28-86
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
 PLANNING DIRECTOR [Signature] DATE 12-2-86
 CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR [Signature] DATE 11-25-86
 CHIEF BUREAU OF ENGINEERING [Signature] DATE 11-24-86

APPROVED
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE 10-10-86

Reviewed for HOWARD .S.C.D.
 Name
 and meets Technical Requirements
 Signature [Signature] Date 11-21-86
 U.S. Soil Conservation Service

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

Stephen L. Huber
Approved [Signature] Date 11/21/86

CLARK · FINEFROCK & SACKETT ENGINEERS · PLANNERS · SURVEYORS 11315 LOCKWOOD DRIVE · SILVER SPRING, MARYLAND 20904 · (301) 593-3400		DESIGNED GUB	SEDIMENT & EROSION CONTROL PLAN LOTS 73 THRU 92 LONG GATE SECT. 1 AREA 3 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE 1" = 30'
		DRAWN VHL		DRAWING 2 of 3
CHECKED GUB	DATE August, 1986	FOR: ALLAN HOMES, INC. P.O. Box 1058 Columbia, Maryland 21044	JOB NO. 86-095	FILE NO. 86-0953E
S.D.P. - 87-61				

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 redisturbance, 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 perimeters 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	3464 Acres
Area Disturbed	3085 Acres
Area to be roofed or paved	1140 Acres
Area to be vegetatively stabilized	1045 Acres
Total Cut	Cu. yds
Total Fill	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 DFW 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 1380 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.

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 square 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.

Inspection - Inspect all seeded areas and make needed repairs, replacements and reseedings.

TEMPORARY SEEDING NOTES

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

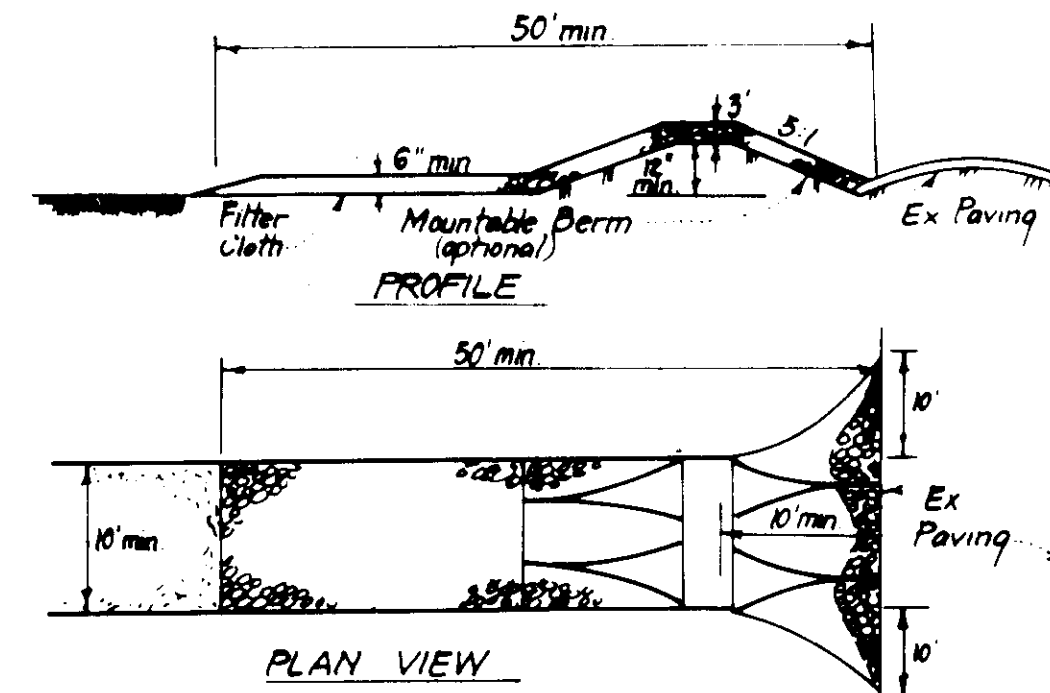
Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.

Soil Amendments: 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.

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 ft 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.

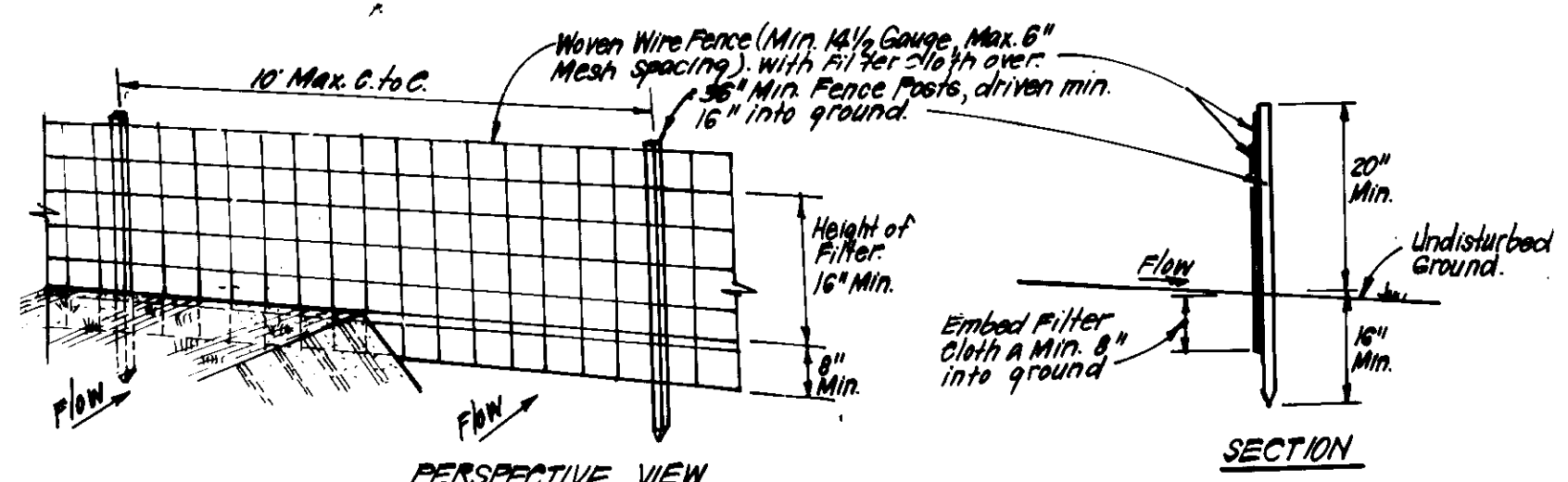


CONSTRUCTION SPECIFICATIONS:

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) foot minimum, but not less than the full width at 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 mountable 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 as conditions demand and repair and/or cleanup of any measures used to trap sediment. All sediment spilled, trapped, 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 on an area stabilized with stone and which drains into an approved sediment trapping device.
9. Periodic inspection and needed maintenance shall be provided after each rain.

STABILIZED CONSTRUCTION ENTRANCE (SCE)

NO SCALE

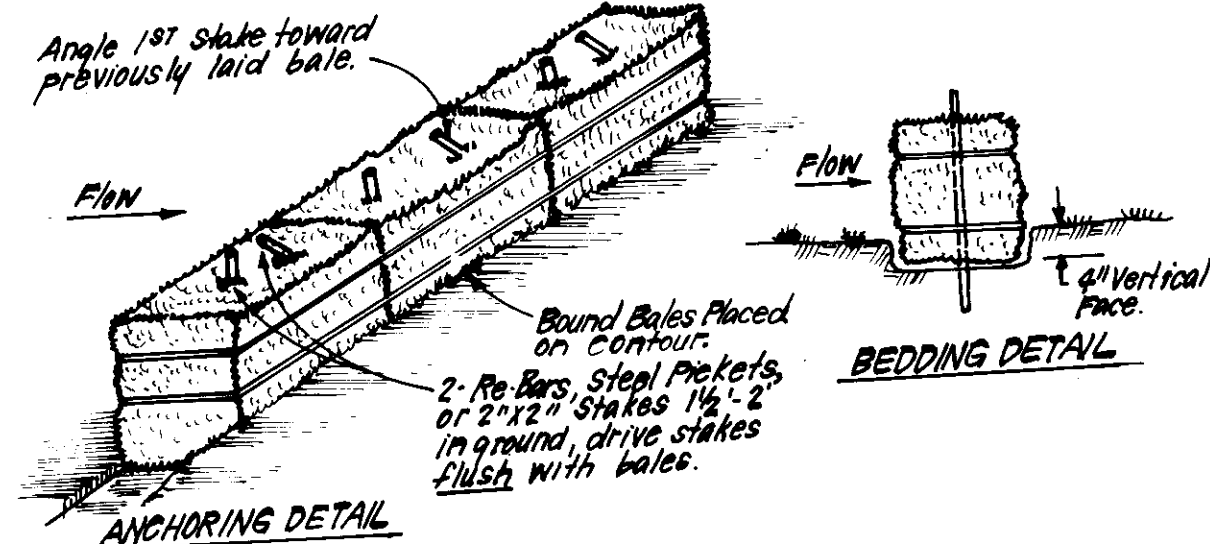


CONSTRUCTION SPECIFICATIONS:

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 ties spaced every 24" at top and mid section.
3. When 2 sections of filter cloth adjoin each other they shall be overlapped by 6" and "staples" driven min. 16" into ground.
4. Maintenance shall be performed as needed and material removed when "bulges" develop in Silt Fence.

SILT FENCE DETAIL (S)

NO SCALE

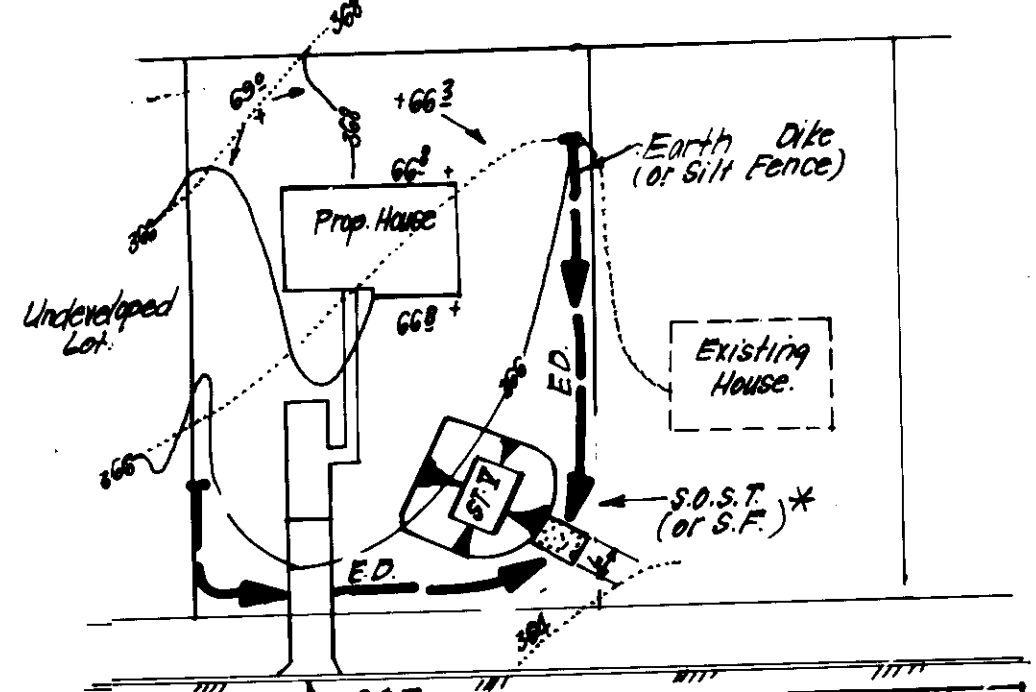


CONSTRUCTION SPECIFICATIONS:

1. Bales shall be placed at the top of a slope or on the contour and in a row with ends tightly abutting the adjacent bales.
2. Each bale shall be embedded in the soil a min. of 4" and placed so the bindings are horizontal.
3. Bales shall be securely anchored in place by either 2 stakes or re-bars driven thru the bale. The 1st stake in each bale shall be driven toward the previously laid bale at an angle to force the bales together. Stakes shall be replaced promptly as needed.
4. Inspection shall be frequent and repair/replacement shall be made promptly as needed.
5. Bales shall be removed when they have served their usefulness so as not to block or impede storm flow or drainage.

STRAW BALE DIKE DETAIL (SBD)

NO SCALE



H.S.O.S.T. (S.T.V.)	PA	1612
LOT SIZE	VALE	1 AC.
Depth	2	3
Bat Length	11	16
Bat Width	11	16
Bat Area	121	256

+ can be adjusted in field, but bottom area must be as given or greater

SINGLE LOT SEDIMENT CONTROL PLAN

NO SCALE

CONSTRUCTION SEQUENCE:

	No. of Days
A. Obtain Grading Permit and Install Sediment and Erosion Control Devices and Stabilize.	5
B. Excavate for Foundations and Rough Grade & Temporarily Stabilize.	25
C. Construct Structures, Sidewalks and Driveways.	350
D. Final Grade and stabilize in accordance with Sids. & Specs.	20
E. Upon approval of the sediment control inspector, remove sediment and erosion controls and stabilize.	5

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 10-10-86

Reviewed for... Howard... S.C.D. Name and meets Technical Requirements Date 11-21-86 U.S. Soil Conservation Service

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

Stephen... Approved Date 11/21/86

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
DATE 11-28-86
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
DATE 12-2-86
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE 11-28-86
DATE 11-28-86

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.
Signature of Developer/Builder ALLAN WASHAK Date 9-9-86

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 of Engineer G. Nelson Clark Date 11-21-86

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

DESIGNED GUB	SEDIMENT & EROSION CONTROL PLAN LOTS 73 THRU 92 LONG GATE SECT. 1 AREA 3 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE As Shown
DRAWN VHL		DRAWING 3 of 3
CHECKED GUB	FOR: ALLAN HOMES, INC. P.O. Box 1058 Columbia, Maryland 21044	JOB NO. 86-095
DATE August, 1986		FILE NO. 86-0955

S.D.P. - 87-01