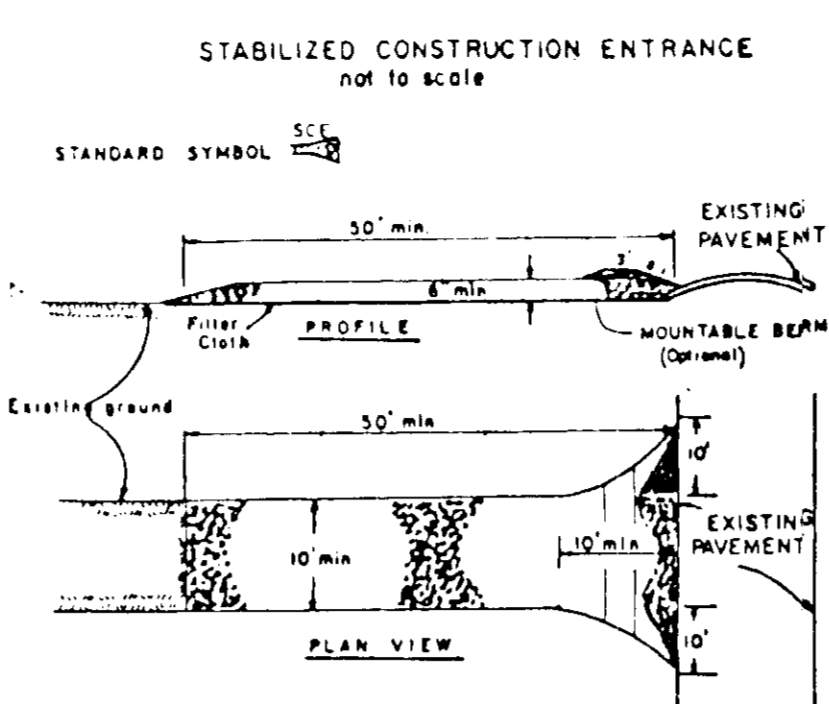
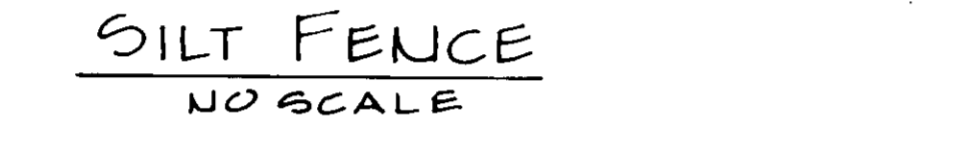
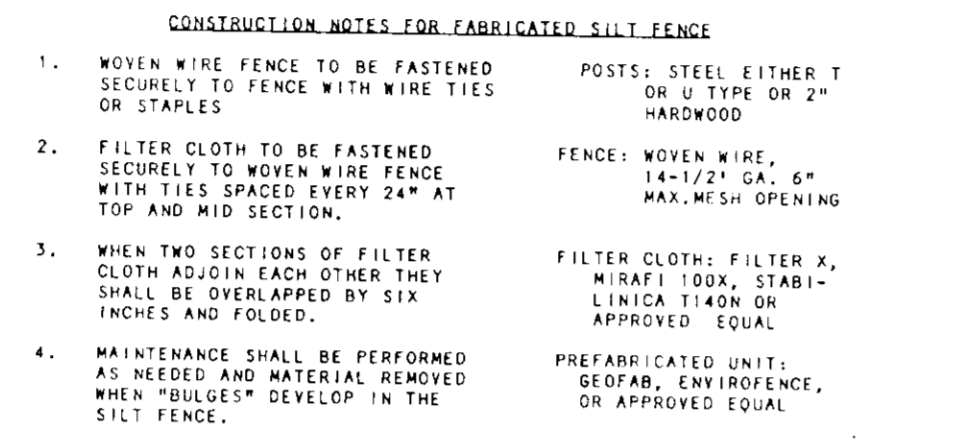
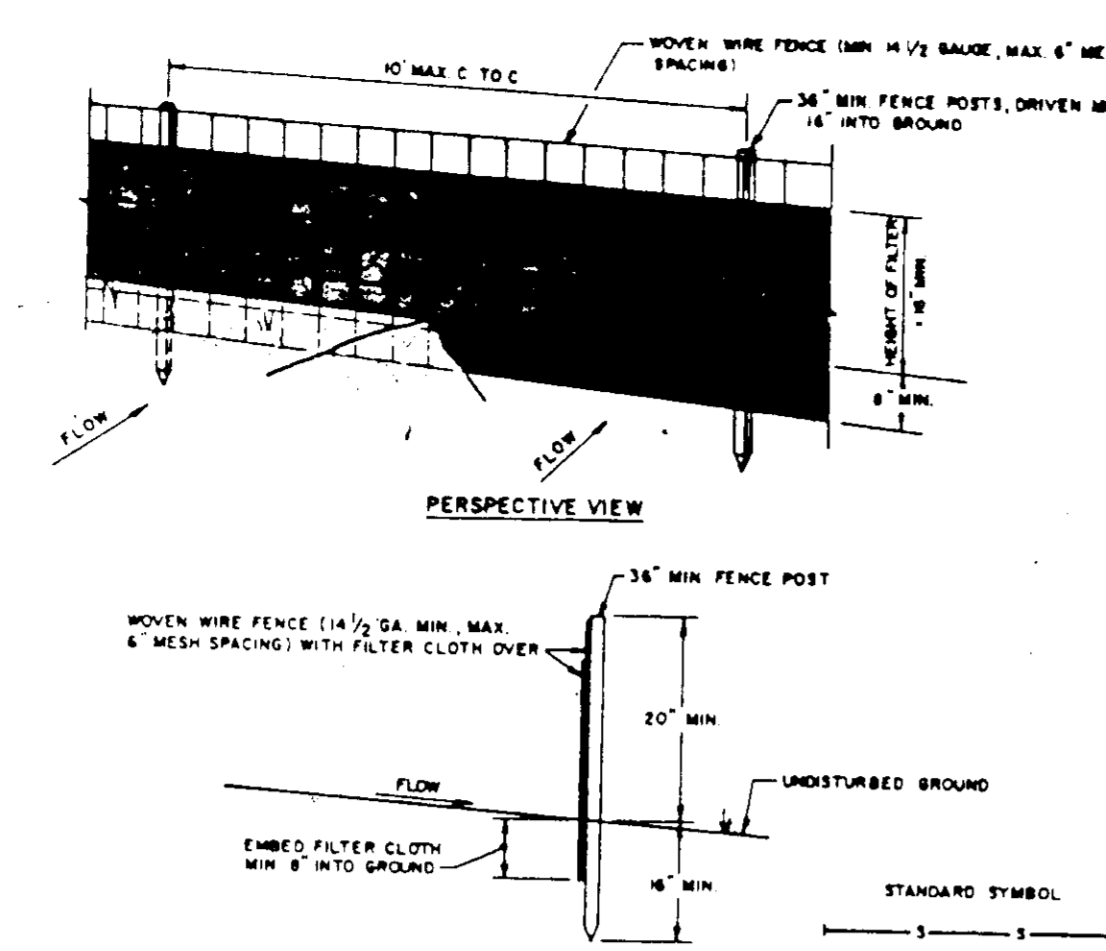
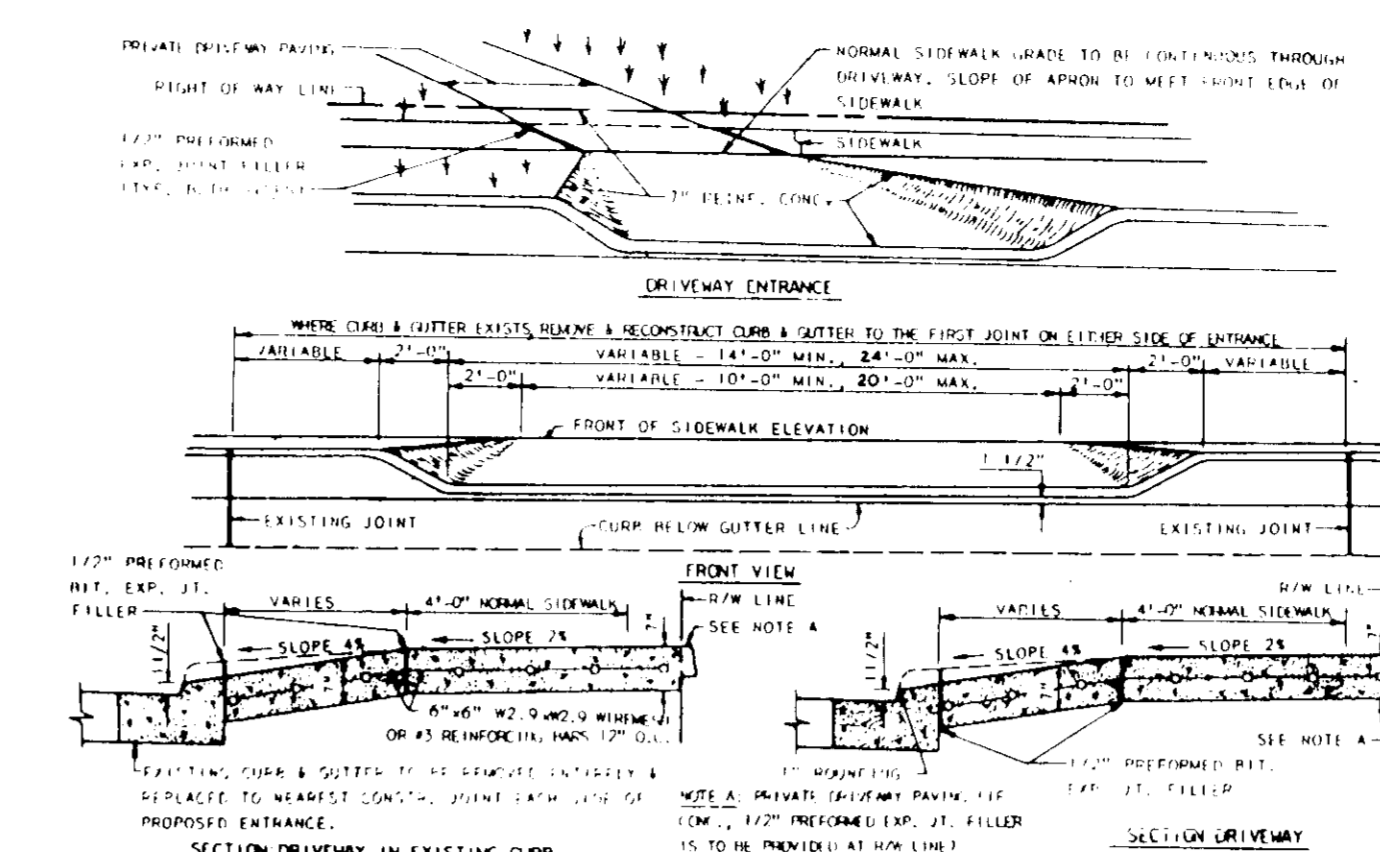


- SEDIMENT CONTROL NOTES**
- A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction (992-2437).
 - All vegetative and structural practices are to be installed according to the drawings and specifications. No construction shall be commenced until the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
 - Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within 14 calendar days for all permanent sediment control structures, channels, permanent slopes and all slopes greater than 3:1. 14 days as to all other disturbed or graded areas must be project specific.
 - 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. 51) sod (Sec. 54), temporary seedings (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seedings 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 operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
 - Site Analysis:
 - Total Area of Site: 2.51 acres
 - Area Disturbed: 1.00 acres
 - Area to be roofed or paved: 1.00 acres
 - Area to be vegetatively stabilized: 1.51 acres
 - Total Cut: 3000 cu. yds.
 - Total Fill: 6000 cu. yds.
 - 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 controls must be provided, if deemed necessary by the Howard County DPE sediment control inspector.
 - Site grading will begin only after all perimeter sediment control measures have been installed and are in a functioning condition.
 - Sediment will be removed from traps when its depth reaches the clean out elevation shown on the plans.



- CONSTRUCTION SPECIFICATIONS**
- Stone Size - Use 2\"/>



DRIVEWAY ENTRANCE DETAIL
NO SCALE

- SEQUENCE OF CONSTRUCTION**
- OBTAIN GRADING PERMIT.
 - CLEAR FOR AND INSTALL SILT FENCE.
 - ROUGH GRADE FOR DRIVEWAY AND REMOVE SIDEWALK AS NECESSARY. INSTALL STABILIZED CONSTRUCTION ENTRANCE.
 - CONSTRUCT HOUSE AND UTILITY CONNECTIONS.
 - FINAL GRADE AND INSTALL DRIVEWAY. STABILIZE ALL DISTURBED AREAS ACCORDING TO TEMP SEEDING NOTES WHEN HOUSE IS CLOSED-IN.
 - COMPLETE ALL CONSTRUCTION AND STABILIZE ALL DISTURBED AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES.
 - UPON APPROVAL OF THE DEPARTMENT OF PUBLIC WORKS SEDIMENT CONTROL INSPECTOR, REMOVE ALL SEDIMENT CONTROL DEVICES AND SEED ALL REMAINING DISTURBED AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES.

Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 140 lbs. per acre of annual ryegrass (3.2 lbs./1000 sq. ft.). For the period May 1 thru August 14, seed with 150 lbs. per acre of creeping lovegrass (0.7 lbs./1000 sq. ft.). For the period September 15 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 (30 to 90 lbs./1000 sq. ft.) of vermiculite small grain straw immediately after application using mulch anchoring tool or 216 gal./1000 sq. ft. of mulch. If mulch is applied on flat areas, on slopes, 8 ft. or higher, use 348 gal. per acre (18 gal./1000 sq. ft.) for anchoring.

TERMINAL SEEDING NOTES
Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

Soil Preparation: Loosen upper three inches of soil by hand or discing or other acceptable means before seeding.

Soil Amendments: Apply 0-20-20 fertilizer at the rate of 600 lbs. per acre. Harrow or disc (use 0-20-20 fertilizer) into soil to a minimum depth of 3\"/>

Seeding: For the periods March 1 thru April 30 and August 1 thru October 15, seed with 40 lbs. per acre (1 lb./1000 sq. ft.) of a mixture of certified seed of Kentucky Bluegrass, common fescue, Perennial ryegrass # 20 lbs. per acre (1 lb./1000 sq. ft.) and Red clover # 10 lbs. per acre (1 lb./1000 sq. ft.) for the period May 1 thru July 31, seed with 40-20-20 fertilizer as specified above and 2 lbs. per acre (0.05 lbs./1000 sq. ft.) of creeping 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 40-40-20 mix fertilizer and mulch with 2 tons/acre well-anchored straw.

Mulching: Apply 1-1/2 to 2 tons per acre (30 to 90 lbs./1000 sq. ft.) of vermiculite small grain straw immediately after application using mulch anchoring tool or 216 gallons per acre (18 gal./1000 sq. ft.) of mulch. If mulch is applied on flat areas, on slopes 8 feet or higher, use 348 gallons per acre (18 gal./1000 sq. ft.) for anchoring.

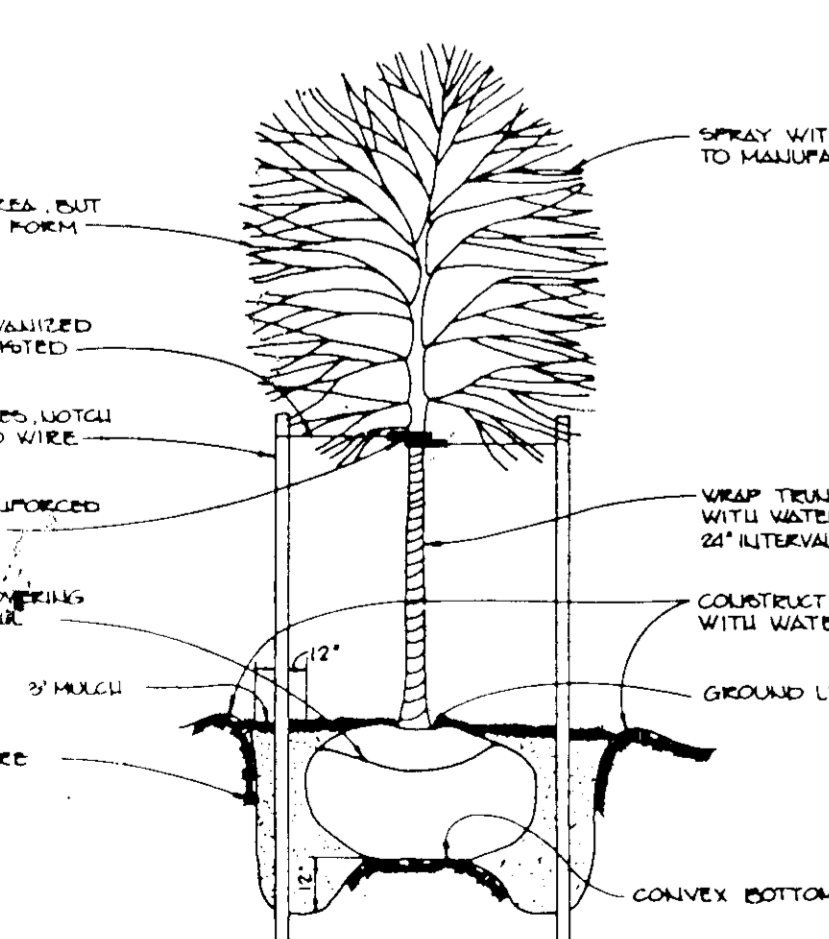
Maintenance: Inspect all seeded areas and make needed repairs, replacements and reseedings.

TERMINAL SEEDING NOTES
Apply to graded or cleared areas likely to be re-disturbed where a short-term vegetative cover is needed.

Soil Preparation: Loosen upper three inches of soil by hand or discing or other acceptable means before seeding.

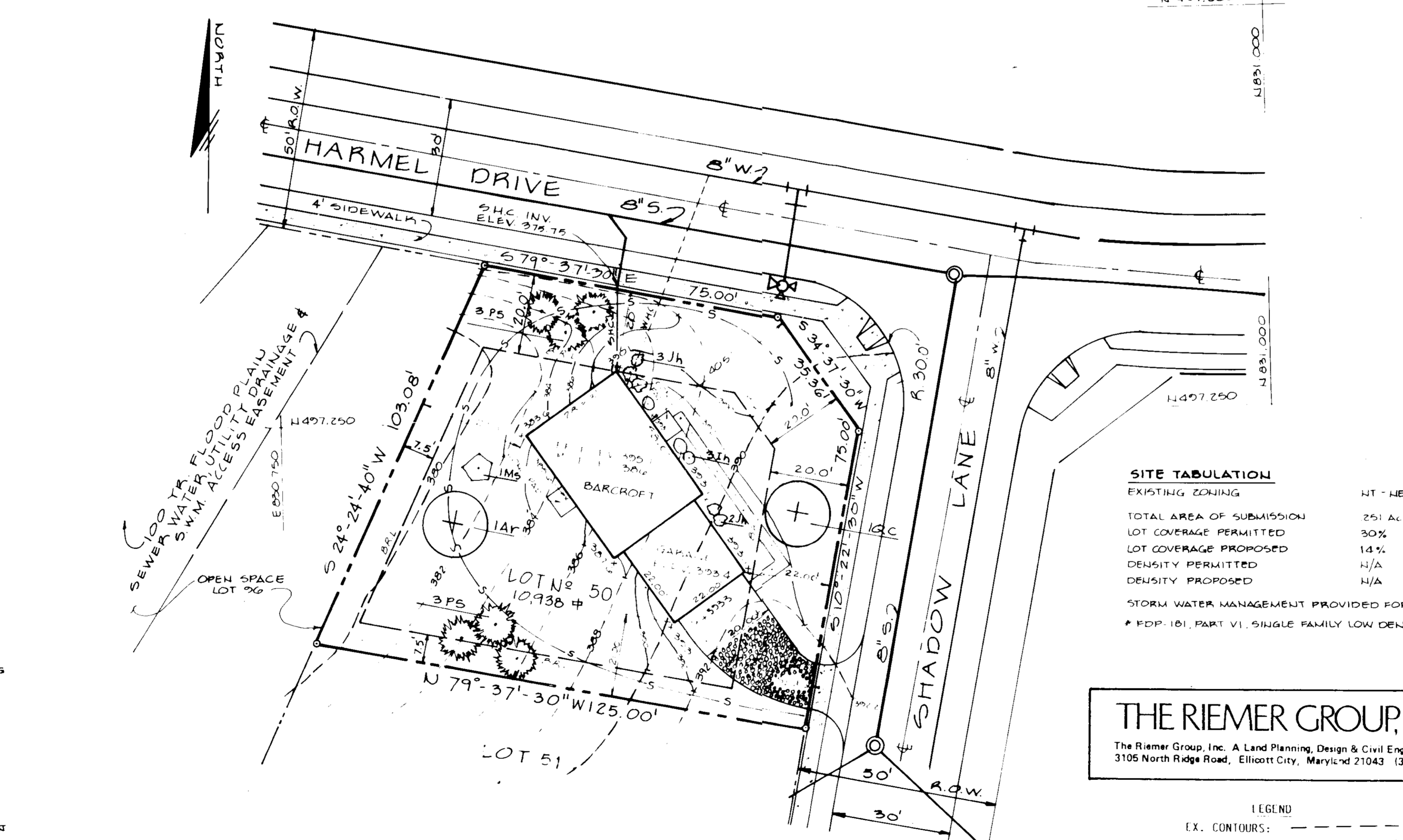
Soil Amendments: Apply 600 lbs. per acre (1 lb./1000 sq. ft.) of a mixture of certified seed of Kentucky Bluegrass, common fescue, Perennial ryegrass # 20 lbs. per acre (1 lb./1000 sq. ft.) and Red clover # 10 lbs. per acre (1 lb./1000 sq. ft.) for the period May 1 thru July 31, seed with 40-20-20 fertilizer as specified above and 2 lbs. per acre (0.05 lbs./1000 sq. ft.) of creeping 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 40-40-20 mix fertilizer and mulch with 2 tons/acre well-anchored straw.

PLANT LIST	HEIGHT	REMARKS
ACER RUBRUM Red Maple	2-1/2\"/>	
QUERCUS COCCINEA Scarlet Oak	2-1/2\"/>	
PINUS STROBUS	7-8\"/>	
EMMUS WILLOW PINE	8-10\"/>	
SNOW CLOUD DRAGGEE		
JUNIPERUS HORIZONTALIS 18-24\"/>		
PLUMOSA		
ANDRUEA JUNIPER		
ILIX NELLIE STEVENS 2-1/2\"/>		

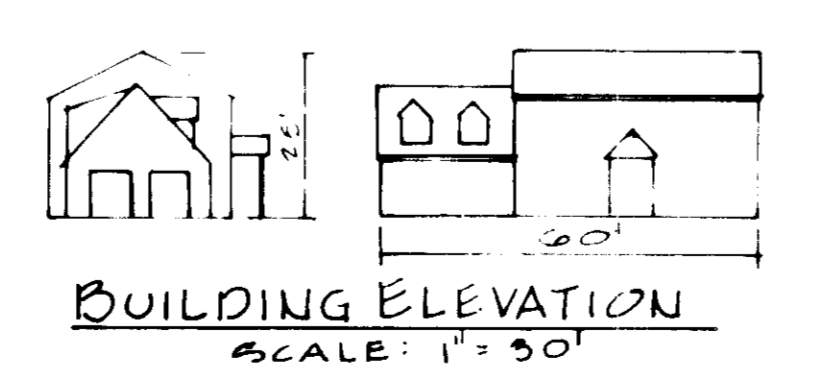


TREE PLANTING DETAIL
NO SCALE

STABILIZED CONSTRUCTION ENTRANCE
NO SCALE



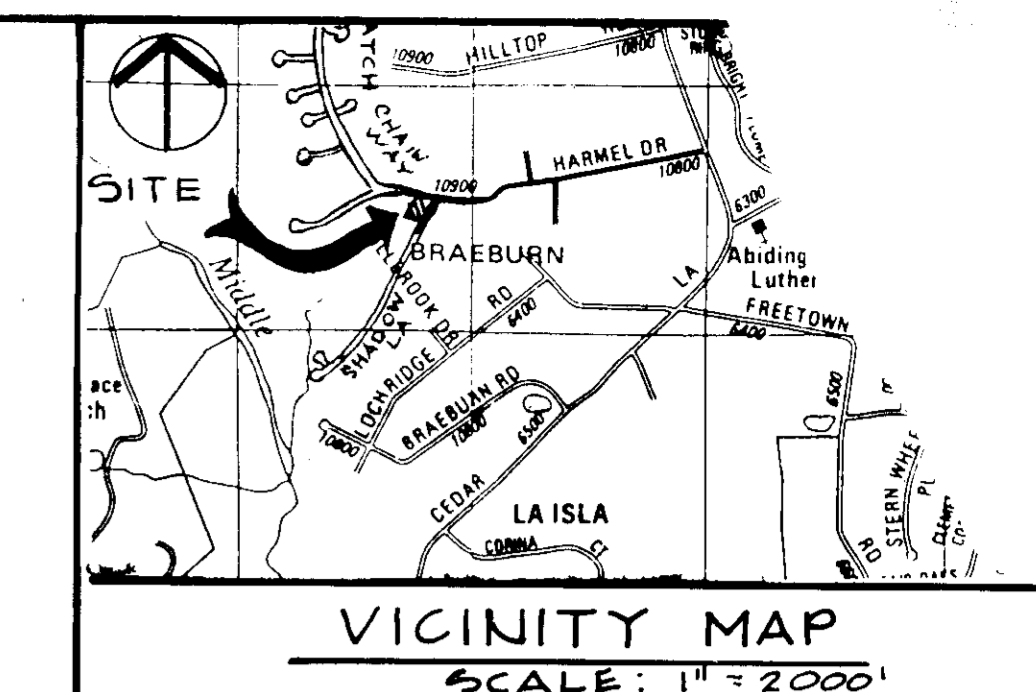
SITE DEVELOPMENT PLAN
SCALE: 1\"/>



BUILDING ELEVATION
SCALE: 1\"/>

THE RIEMER GROUP, INC.
The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm
3105 North Ridge Road, Ellicott City, Maryland 21043 (301) 461-2690

- LEGEND**
- EX. CONTOURS: 438
 - PROP. CONTOURS: 38
 - STABILIZED CONSTRUCTION ENTRANCE: [Symbol]
 - DRIVEWAY-CONCRETE: [Symbol]
 - LIMIT OF DISTURBED AREA: [Symbol]
 - BUILDING RESTRICTION LINE: B.R.L.
 - SILT FENCE: S-S-S
- NOTES:**
PUBLIC WATER AND SEWER SERVICE IS PROVIDED UNDER CONTRACT NO. 34 1437 D.



ADDRESS CHART

LOT NUMBER	STREET ADDRESS
50	10920 SHADOW LANE

SUBDIVISION NAME HICKORY RIDGE SECT. 4/AREA 1

PLAT No. 7067	BLOCK #17	LOT #50	TAX/ZONE MAP 30	ELEC. DIST. 5	CENSUS TR. 603501
WATER CODE E-32	SEWER CODE 609000				

- APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
- Joseph M. Boyer*
COUNTY HEALTH OFFICER
DATE: 9-15-87
- APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
- W. P. Amin*
PLANNING DIRECTOR
DATE: 9-18-87
- John W. Macdonald*
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION
DATE: 9-16-87
- APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
- James M. Schmitt*
DIRECTOR
DATE: 9/16/87
- William S. Reed*
CHIEF, BUREAU OF ENGINEERING
DATE: 9-9-87

BY THE DEVELOPER:

David S. Steiner
DEVELOPER
DATE: 8/20/87

BY THE ENGINEER:

"I 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."

Arthur E. Muegge
DATE: 8-20-87

REVIEWED FOR NAME S.C.D.

James M. Schmitt
U.S. SOIL CONSERVATION SERVICE
DATE: 9/4/87

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

Stephen E. Fisher
HOWARD S.C.D.
DATE: 9/4/87

OWNER: HOWARD RESEARCH AND DEVELOPMENT CORP
10215 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044

DEVELOPER: HOWARD VOCATIONAL CONSTRUCTION CO.
10920 CLARKSVILLE PIKE (RTE.100)
ELLICOTT CITY, MARYLAND 21043

PROJECT: VILLAGE OF HICKORY RIDGE LOT 50

AREA TAX MAP NO. 20 ELECTION DISTRICT 5TH SECTION 4 AREA 1
HOWARD COUNTY, MARYLAND

TITLE SITE DEVELOPMENT PLAN

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 8-10-87

EDUCATION PLUS

DESIGNED BY: *Arthur E. Muegge*
DRAWN BY:
PROJECT NO:
DATE:
SCALE: 1\"/>