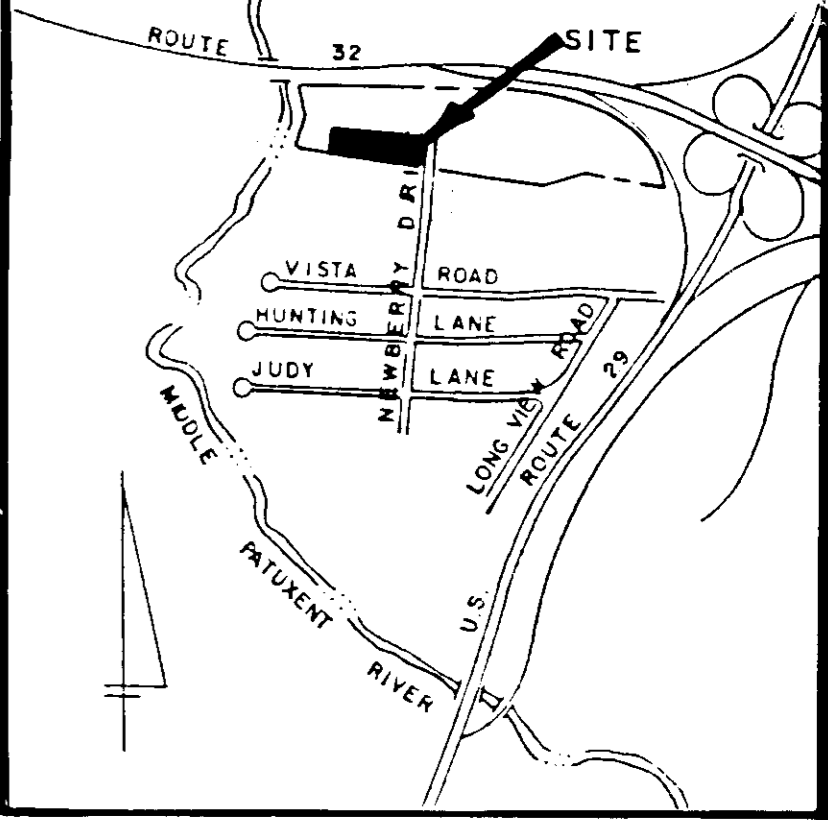


GENERAL NOTES:

1. Area of site (lots 1-18): 6.64 Ac. or 289,332 s.f.
2. Site is zoned New Town.
3. Area shown is located on Tax Map 41, Parcel 45.
4. Area shown is recorded as plat number 8133 among the Land Records of Howard County, Maryland.
5. The total number of lots included in this plan is 18.
6. Refer to O.P.2. files: F-88-199 and F-88-199c.
7. See sheet 3 of 3 for driveway apron detail.

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING WOODED AREA
- WOODED AREA TO REMAIN
- W/O WALK-OUT BASEMENT
- C-1234 MIN CELLAR W/ 1 FT OF BASEMENT SLAB
- STREET LIGHT (By F-88-199c)



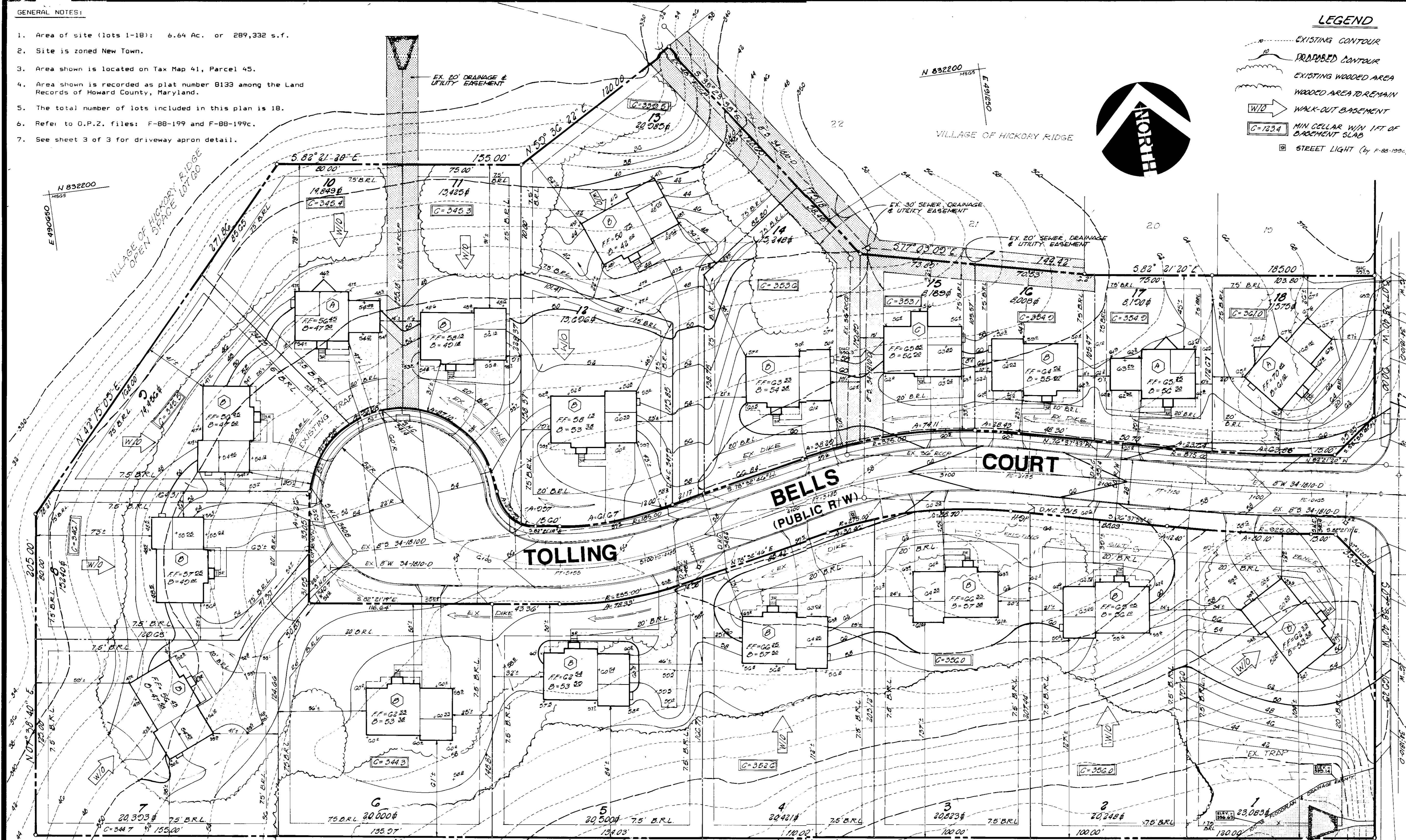
VICINITY MAP  
SCALE 1" = 2000'

ADDRESS CHART

| LOT | STREET ADDRESS        |
|-----|-----------------------|
| 1   | 6903 TOLLING BELLS CT |
| 2   | 6907                  |
| 3   | 6911                  |
| 4   | 6915                  |
| 5   | 6919                  |
| 6   | 6923                  |
| 7   | 6927                  |
| 8   | 6931                  |
| 9   | 6935                  |
| 10  | 6939                  |
| 11  | 6943                  |
| 12  | 6947                  |
| 13  | 6951                  |
| 14  | 6955                  |
| 15  | 6959                  |
| 16  | 6963                  |
| 17  | 6967                  |
| 18  | 6971 NEWBERRY DRIVE   |

NEWBERRY

DRIVE  
(50 FT. PUBLIC R/W)



APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT  
Date: 2-14-89

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
Date: 3-3-89

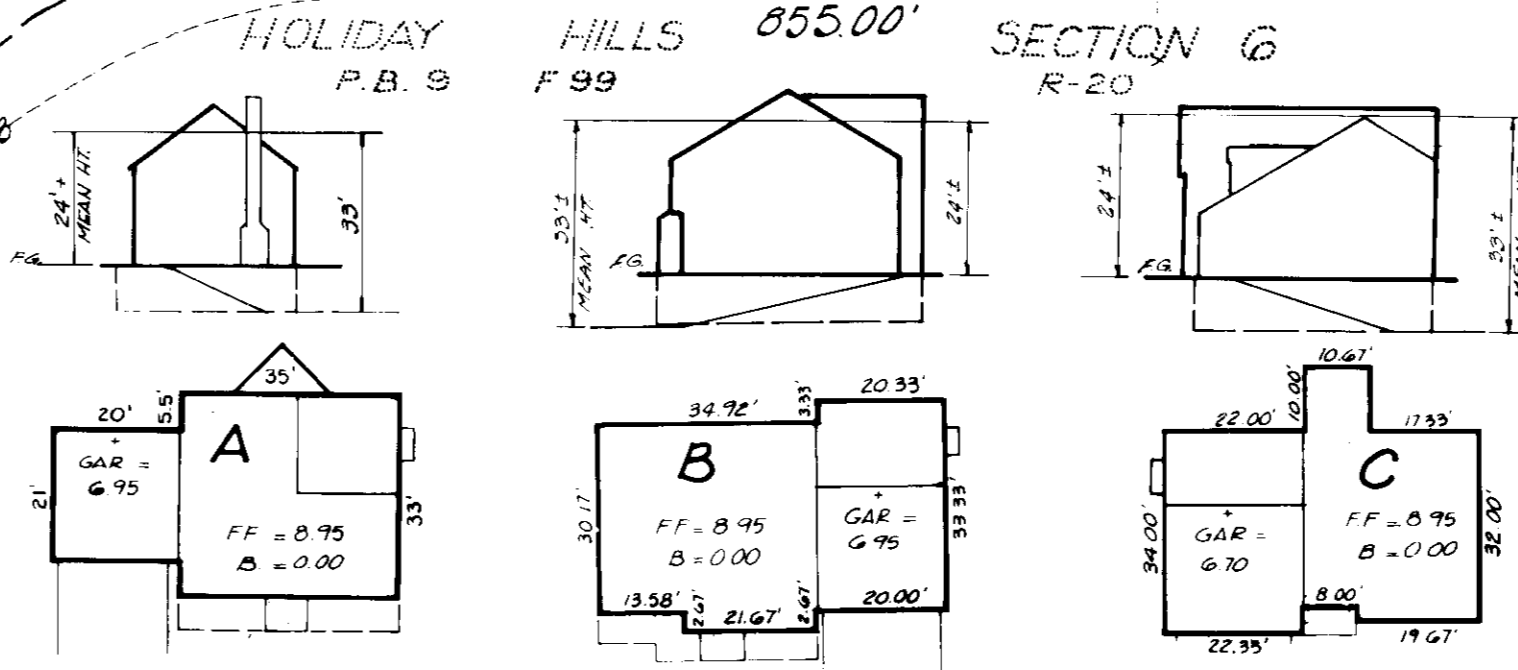
APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE,  
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
Date: 2-21-89

JAN. 6, 1989  
COM

ENGINEER'S CERTIFICATE  
"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."  
C.K. Dutcheal 12/9/88



DEVELOPER'S/BUILDER'S CERTIFICATE  
"I/We certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department 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 H.S.C.D."  
Signature of Developer/Builder: [Signature] Date: 12/9/88



THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
Date: 4/21/89

Reviewed for: [Name] S.C.D. and meets Technical Requirements.  
H.S.C.D. Soil Conservation District Date: [Date]

|                          |                |                     |
|--------------------------|----------------|---------------------|
| SUBDIVISION NAME         | SECTION AREA   | LOT/PARCEL #        |
| Village of Hickory Ridge | 6/1            | LOTS 1-18 PARCEL 45 |
| PLAT #                   | BLOCK # ZONING | TAX MAP #           |
| 8133                     | 5 NT SFMD      | 41                  |
| ELECT. DIST.             | GENBUS TR      |                     |
| 5                        | GC51           |                     |
| WATER CODE               | SEWER CODE     |                     |
| E-22                     | 6450000        |                     |

**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
ENGINEERS, PLANNERS, SURVEYORS  
3909 NATIONAL DRIVE SUITE 250 BURTONSVILLE OFFICE PARK BURTONSVILLE, MD. 20886  
TELEPHONE: (301) 421-4024

PREPARE FOR:  
**HALLMARK BUILDERS**  
P.O. Box 1018 Columbia, MD 21044 (301) 964-4440

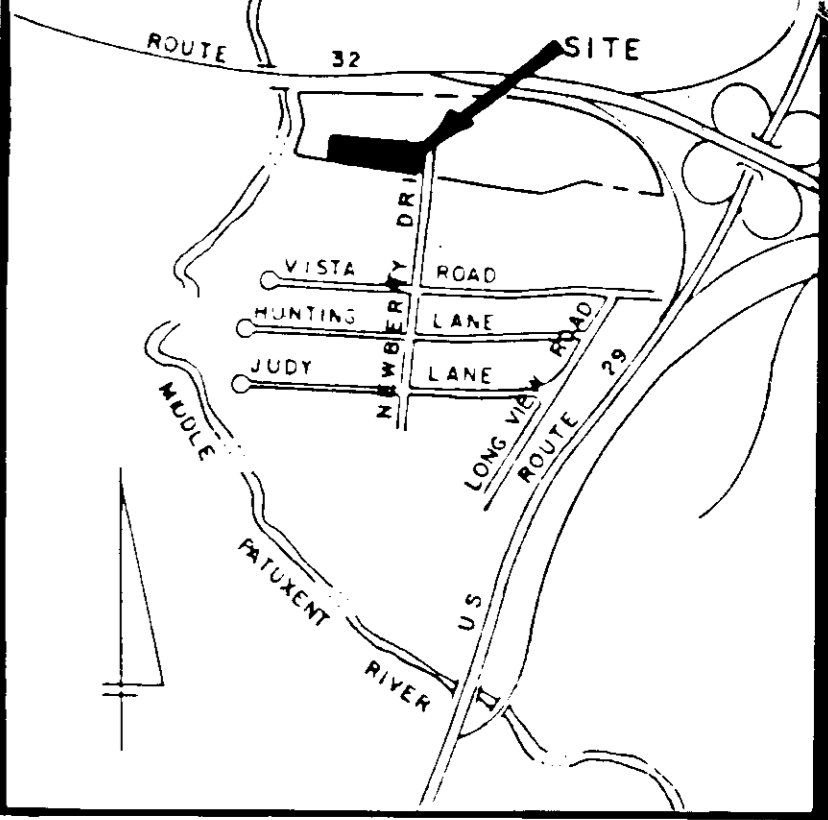
SITE DEVELOPMENT PLAN  
**VILLAGE OF HICKORY RIDGE**  
SECTION G AREA 1 LOTS 1-18  
5TH ELECTION DISTRICT OF HOWARD COUNTY COLUMBIA, MARYLAND

|               |             |                 |
|---------------|-------------|-----------------|
| SCALE         | ZONING      | G.L.W. FILE NO. |
| 1" = 30'      | NT          | 88072           |
| DATE          | TAX MAP NO. | SHEET           |
| JANUARY, 1989 | 41          | 1 of 3          |

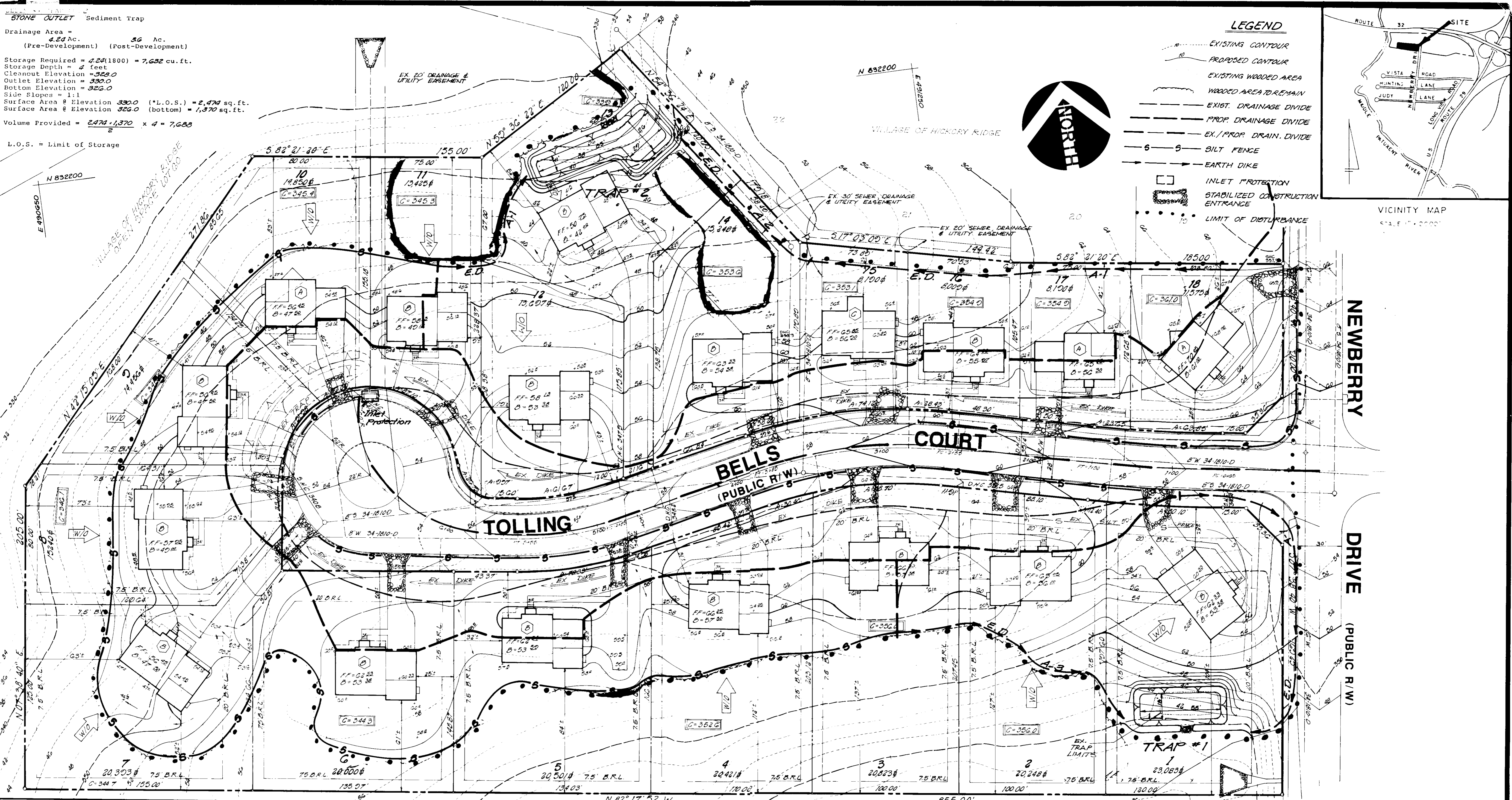
**STONE OUTLET Sediment Trap**  
 Drainage Area = 4.24 Ac. (Pre-Development) 3.6 Ac. (Post-Development)  
 Storage Required = 4,24(1800) = 7,632 cu. ft.  
 Storage Depth = 4 feet  
 Cleanout Elevation = 328.0  
 Outlet Elevation = 330.0  
 Bottom Elevation = 326.0  
 Side Slopes = 1:1  
 Surface Area @ Elevation 330.0 (\*L.O.S.) = 2,474 sq. ft.  
 Surface Area @ Elevation 326.0 (bottom) = 1,370 sq. ft.  
 Volume Provided =  $\frac{2,474 - 1,370}{2} \times 4 = 7,688$   
 L.O.S. = Limit of Storage

**LEGEND**

- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING WOODED AREA
- WOODED AREA TO REMAIN
- EXIST. DRAINAGE DIVIDE
- PROP. DRAINAGE DIVIDE
- EX./PROP. DRAIN. DIVIDE
- SILT FENCE
- EARTH DIKE
- INLET PROTECTION
- STABILIZED CONSTRUCTION ENTRANCE
- LIMIT OF DISTURBANCE

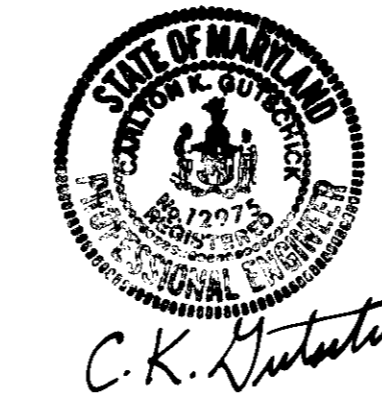


VICINITY MAP  
 SCALE 1" = 2000'



**APPROVED:** FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS  
 HOWARD COUNTY HEALTH DEPARTMENT  
 County Health Officer: *[Signature]* Date: 12-14-89  
**APPROVED:** HOWARD COUNTY OFFICE OF PLANNING & ZONING  
 Director: *[Signature]* Date: 3-3-89  
 Chief Division of Community Planning and Land Development: *[Signature]* Date: 2-28-89  
**APPROVED:** FOR PUBLIC WATER & PUBLIC SEWERAGE  
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 Director: *[Signature]* Date: 1-1-89  
 Chief Bureau of Engineering: *[Signature]* Date: 1-1-89

**ENGINEER'S CERTIFICATE**  
 I certify that this plan for erosion and sediment control implements 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.  
 C.K. Gustafson 12/19/88  
**DEVELOPER'S/BUILDER'S CERTIFICATE**  
 I/We certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department 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 HSD.  
 J. E. [Signature] 12/19/88  
 Signature of Developer/Builder Date



**SEDIMENT TRAP NO. 1**  
**STONE OUTLET Sediment Trap**  
 Drainage Area = 2.0 Ac. (Pre-Development) 1.8 Ac. (Post-Development)  
 Storage Required = 2(1800) = 3600 cu. ft.  
 Storage Depth = 3 feet  
 Cleanout Elevation = 337.5  
 Outlet Elevation = 339.0  
 Bottom Elevation = 336.0  
 Side Slopes = 1:1  
 Surface Area @ Elevation 339.0 (\*L.O.S.) = 1,264 sq. ft.  
 Surface Area @ Elevation 336.0 (bottom) = 970 sq. ft.  
 Volume Provided =  $\frac{1,264 - 970}{2} \times 3 = 3,681$   
 \*L.O.S. = Limit of Storage

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 Howard S.C.D. Date: 1/1/89

|                          |         |            |           |                         |
|--------------------------|---------|------------|-----------|-------------------------|
| SUBDIVISION NAME         |         | SECTION    | AREA      | LOT/PARCEL #            |
| Village of Hickory Ridge |         | 6/1        |           | LOTS 1-18 PARCEL 46     |
| PLAT #                   | BLOCK # | ZONING     | TAX MAP # | ELECT. DIST. CENSUS TR. |
| 8/33                     | 5       | NT         | 41        | 5 0051                  |
| WATER CODE               |         | SEWER CODE |           |                         |
| E-22                     |         | G450000    |           |                         |

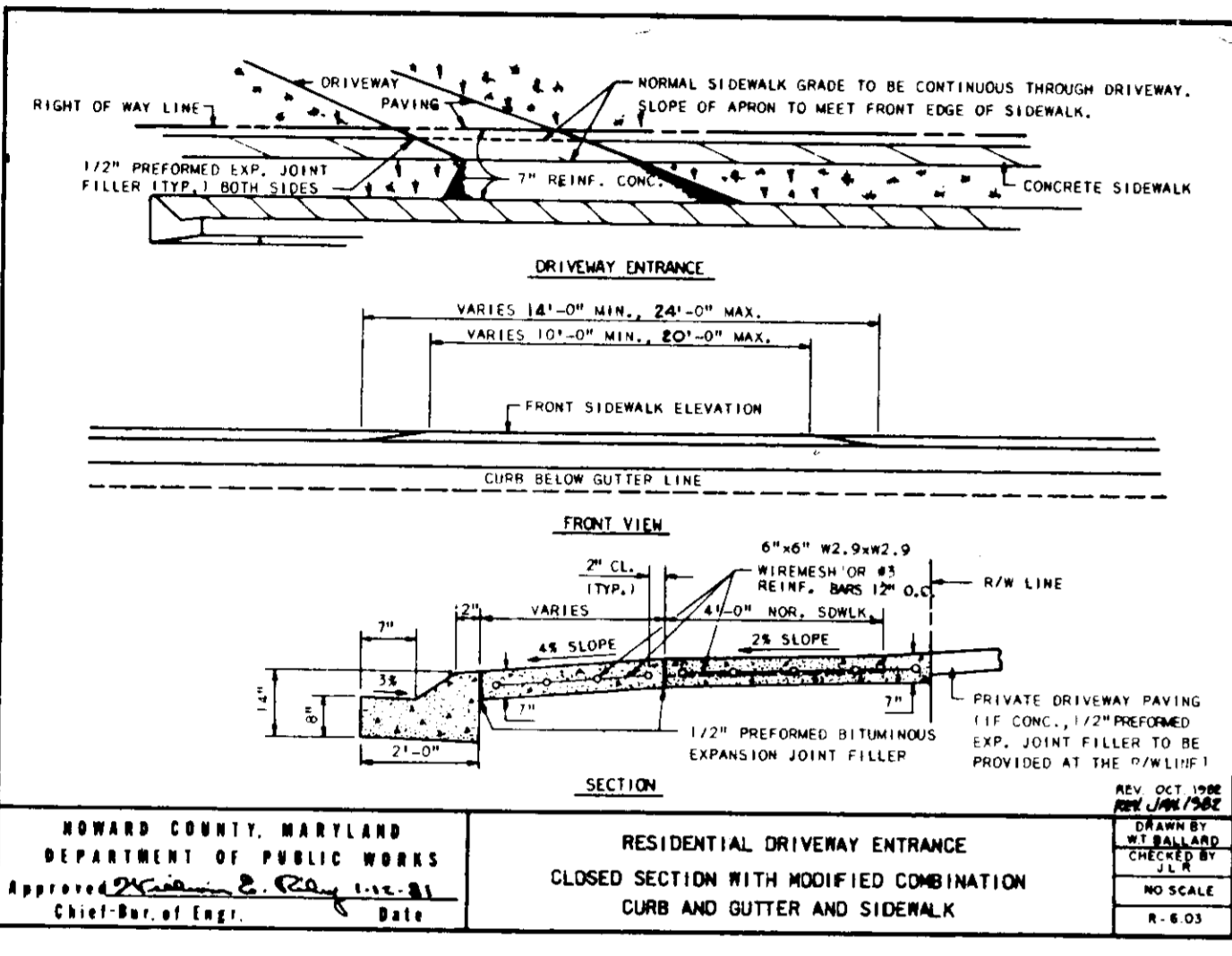
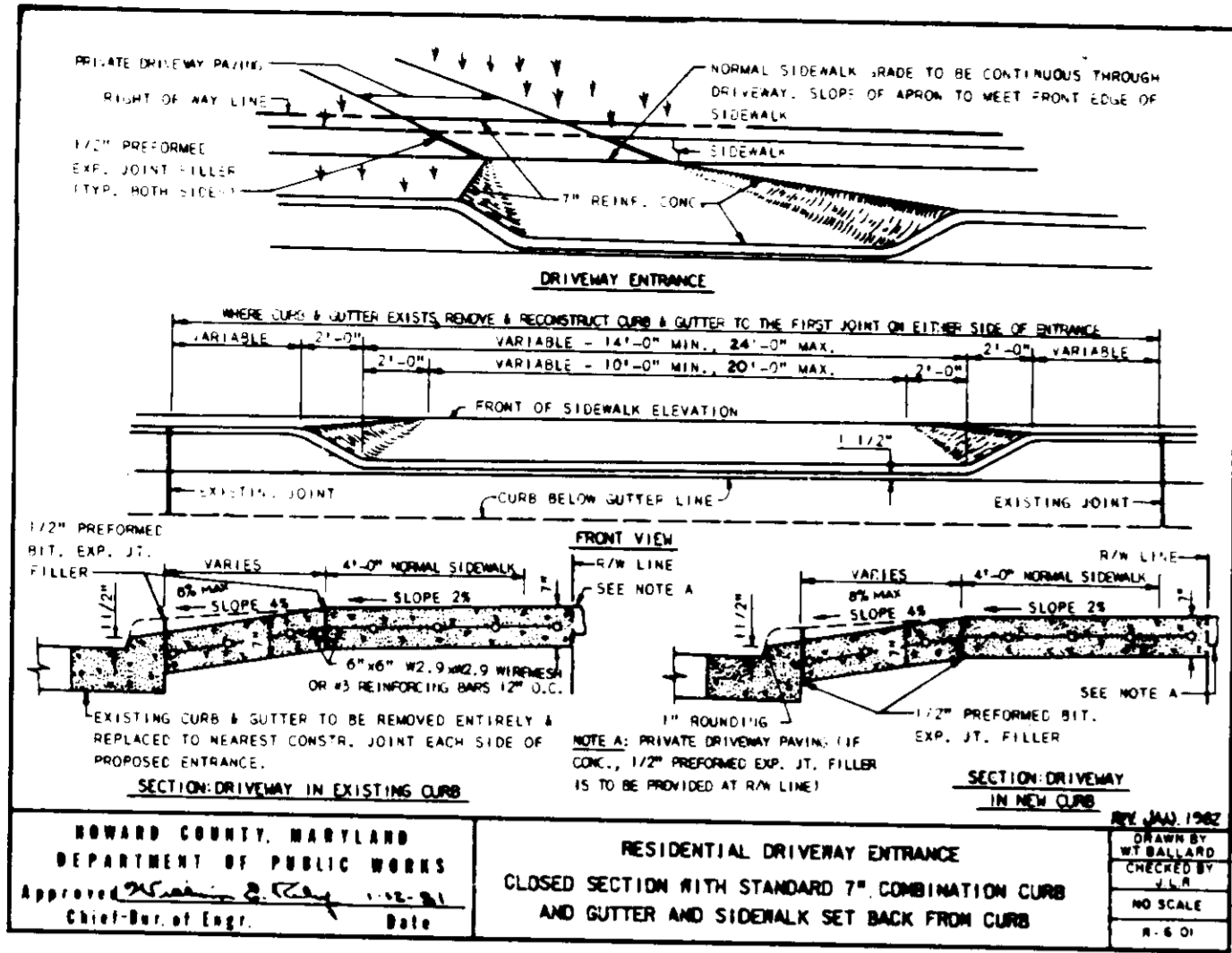
**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
 ENGINEERS, PLANNERS, SURVEYORS  
 3909 NATIONAL DRIVE SUITE 250 BURTONSVILLE OFFICE PARK BURTONSVILLE, MD 20866  
 TELEPHONE (301) 421-4024

|         |         |             |      |          |    |        |
|---------|---------|-------------|------|----------|----|--------|
| DES. NB | DRN. NB | CHK. C.K.G. | DATE | REVISION | BY | APP'R. |
|         |         |             |      |          |    |        |

PREPARE FOR:  
**HALLMARK BUILDERS**  
 P.O. Box 1018 Columbia, MD 21044 (301) 964-6440

**SEDIMENT CONTROL PLAN**  
**VILLAGE OF HICKORY RIDGE**  
 SECTION 6 AREA 1 LOTS 1-18  
 5TH ELECTION DISTRICT OF HOWARD COUNTY COLUMBIA, MARYLAND

|               |             |                 |
|---------------|-------------|-----------------|
| SCALE         | ZONING      | G.L.W. FILE No. |
| 1" = 30'      | NT          | 88072           |
| DATE          | TAX MAP No. | SHEET           |
| JANUARY, 1989 | 41          | 2 of 3          |



DEVELOPER'S/BUILDER'S CERTIFICATE

"I/We certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department 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 HSCD."

Signature: *[Signature]* Date: 12/9/88

ENGINEER'S CERTIFICATE

"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."

Signature: *C.K. Antwine* Date: 12/9/88

Reviewed for HONARD S.C.D. and meets Technical Requirements.

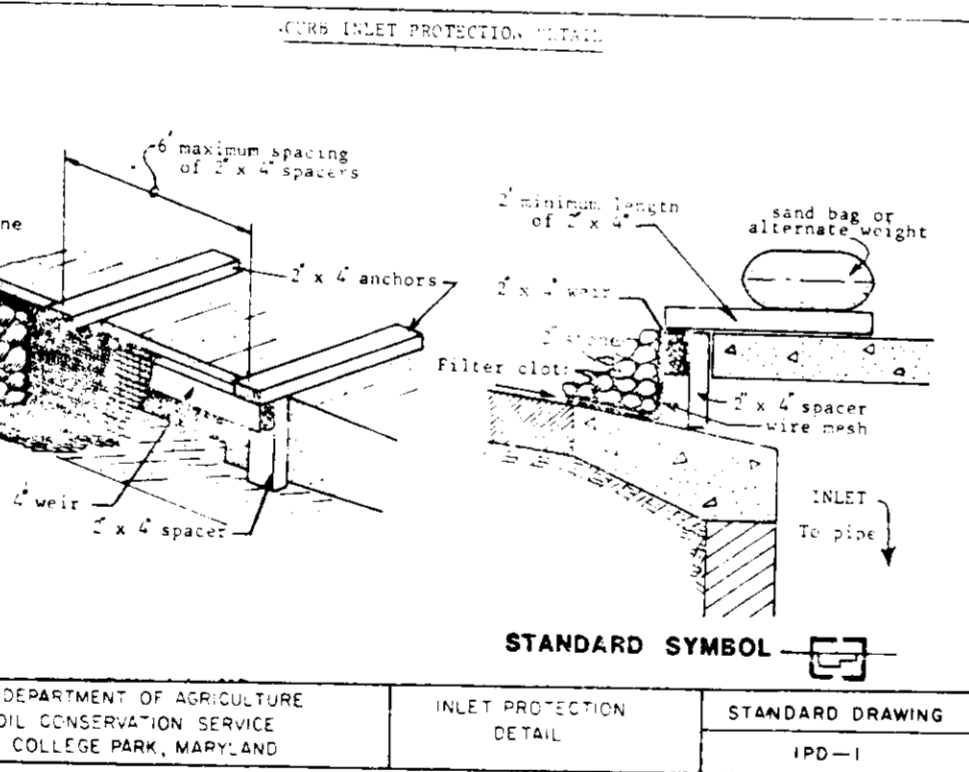
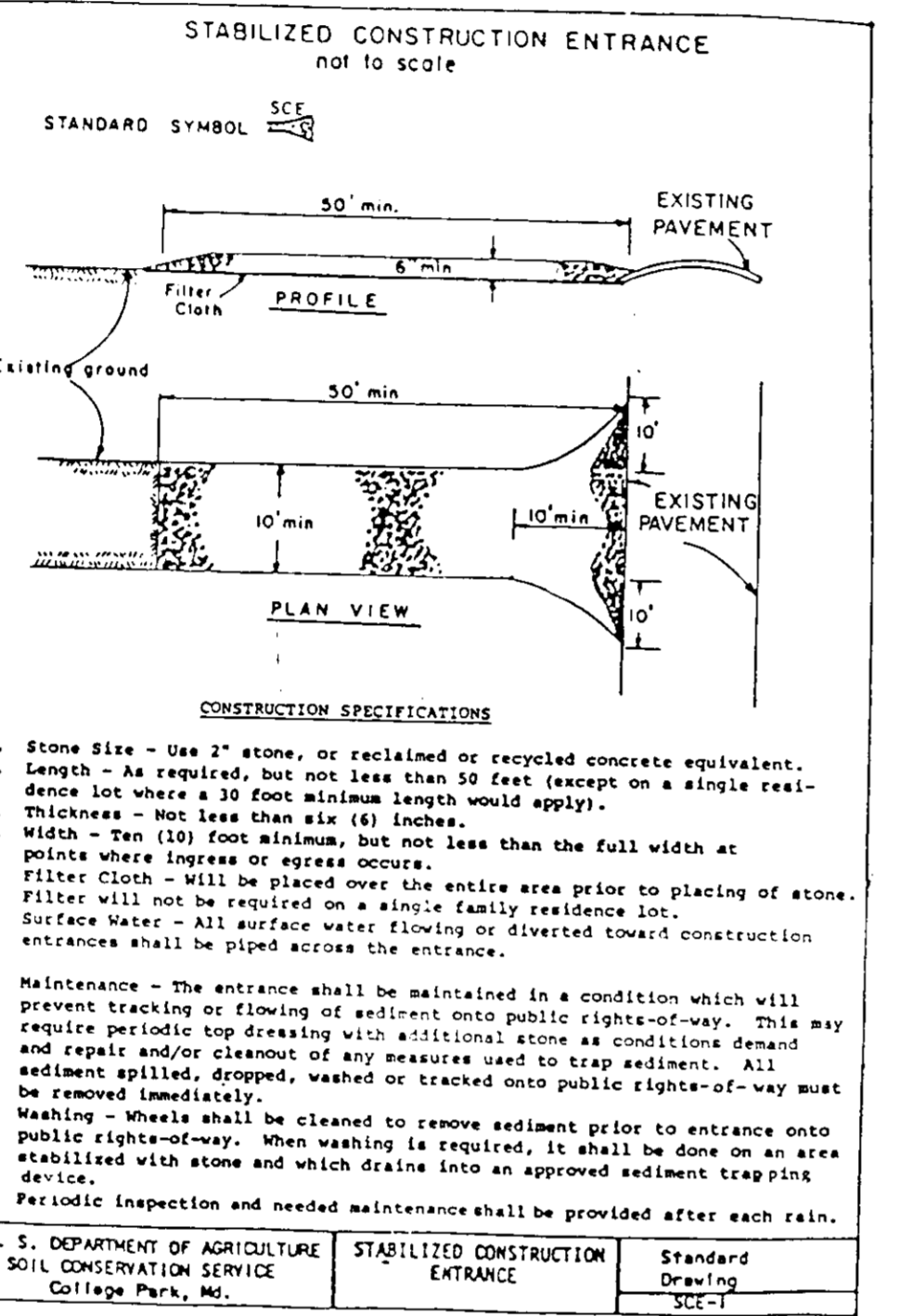
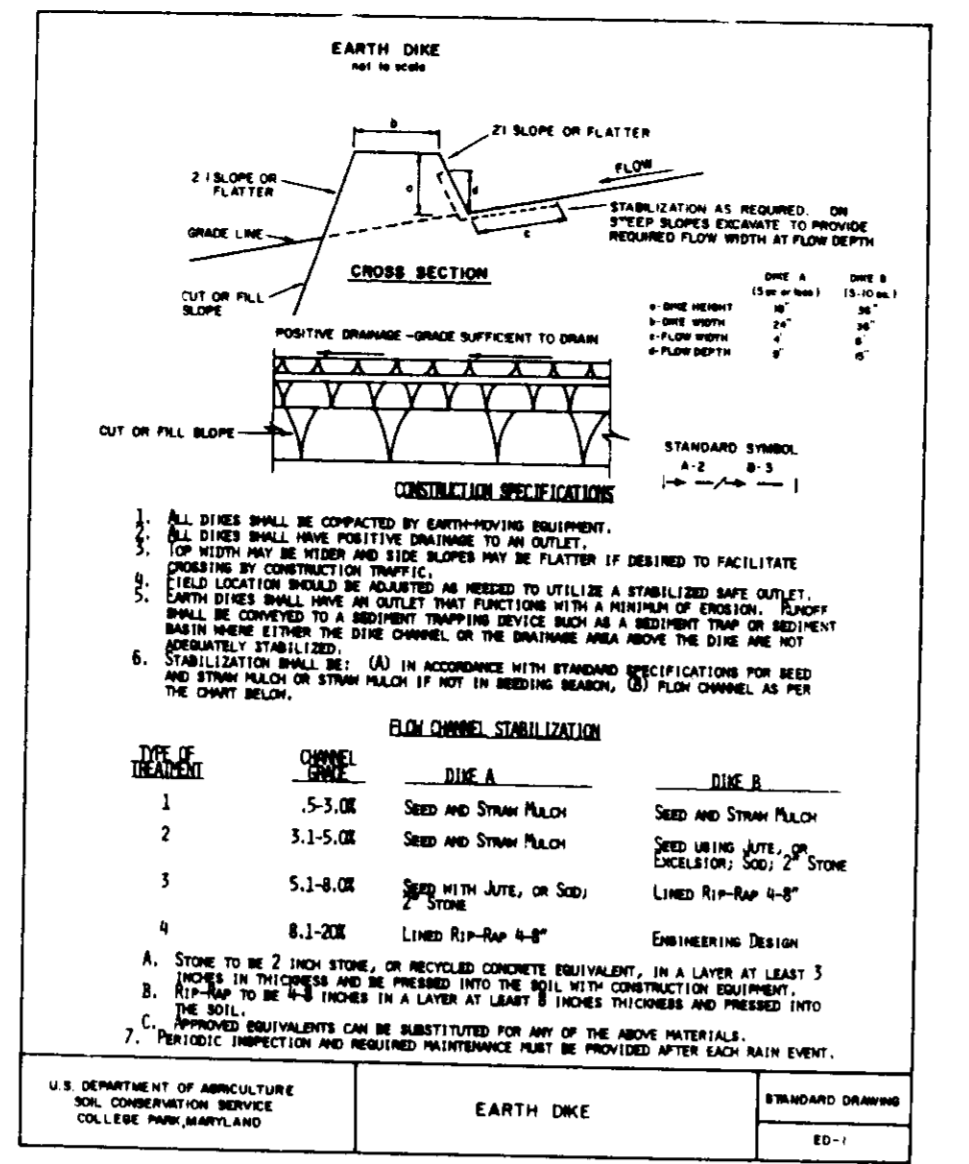
Signature: *[Signature]* Date: 2/23/89

Signature: *[Signature]* Date: 2/23/89

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT. Date: 2-14-89

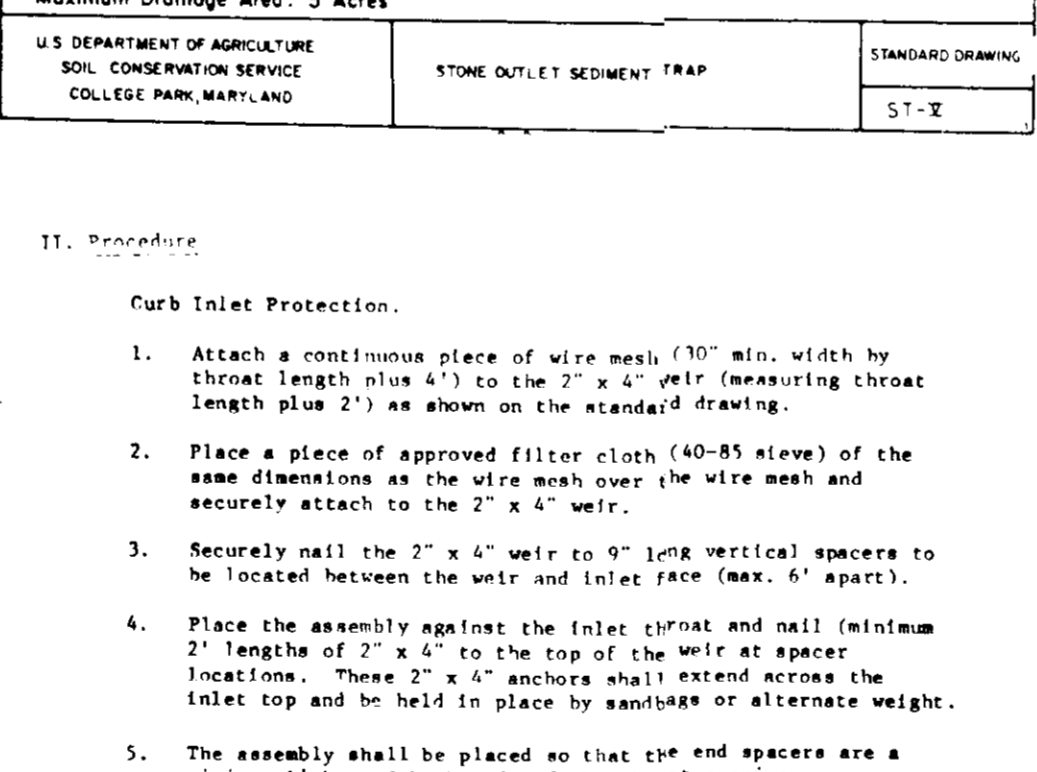
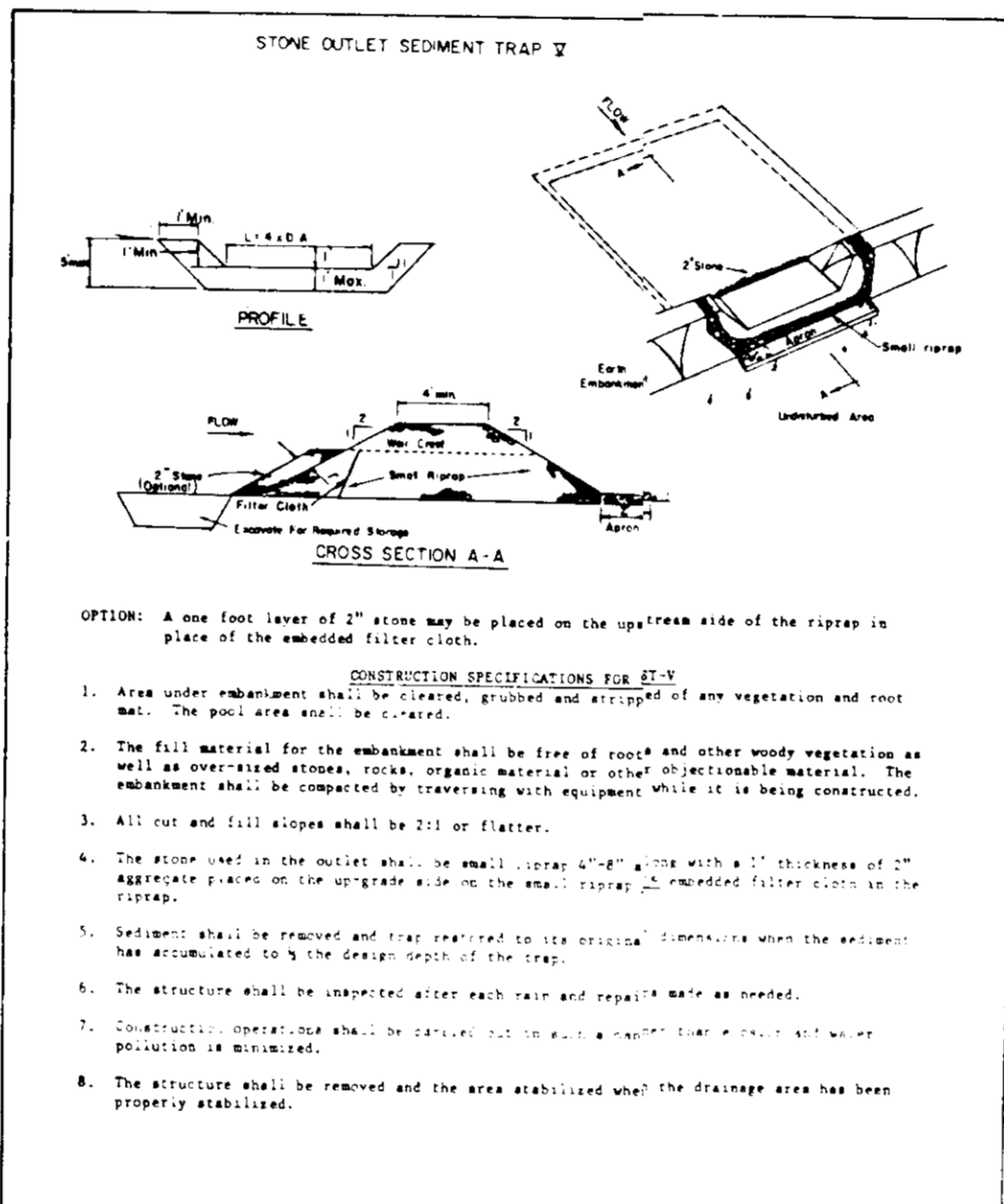
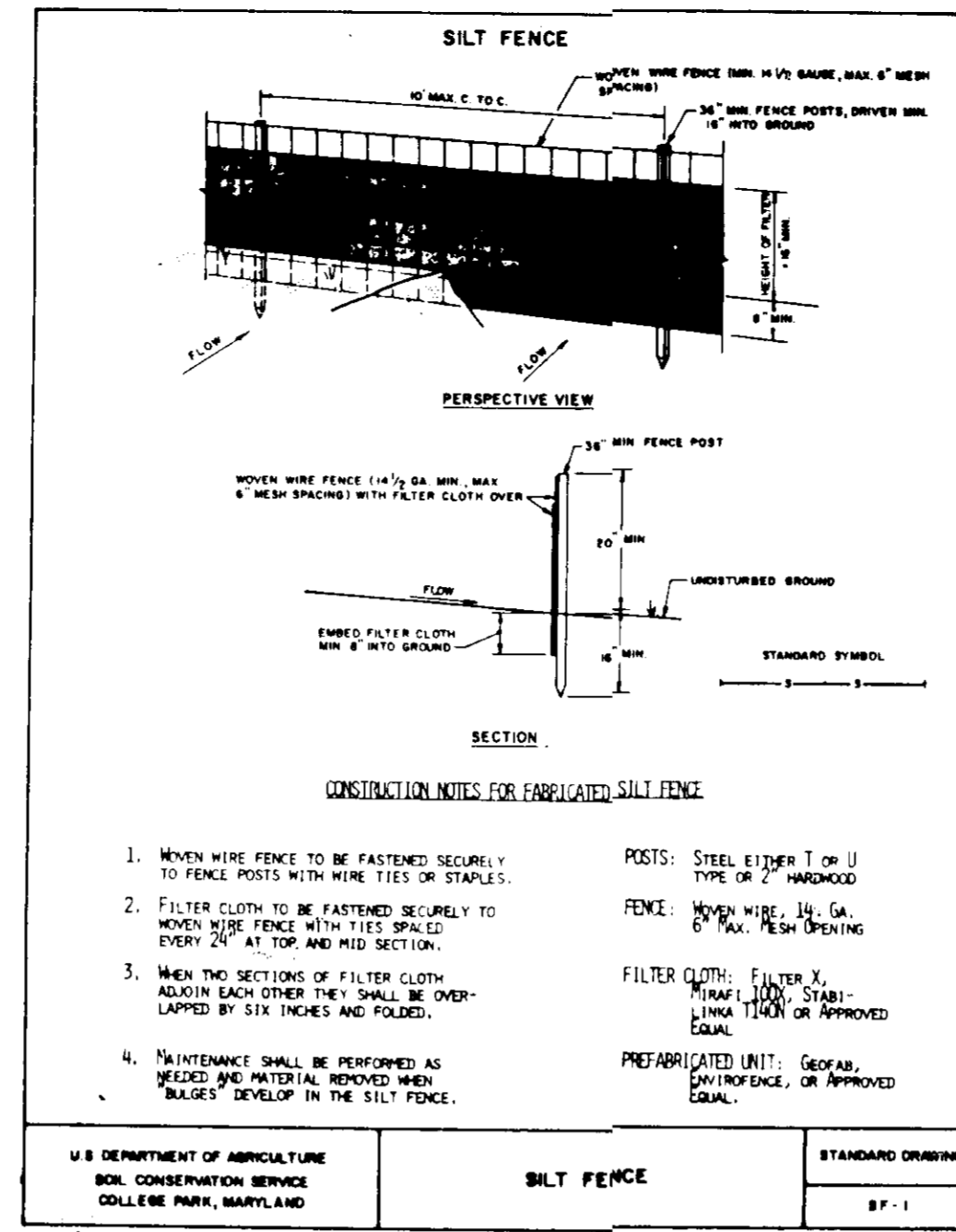
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING. Date: 2-3-89

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC WORKS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS. Date: 2-7-89



CONSTRUCTION SPECIFICATIONS

- Stone Size - Use 2" stone, or recycled or recycled concrete equivalent.
- Length - As required, but not less than 30 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) foot 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 piped across the entrance.
- Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public right-of-way. This may require periodic top dressing with additional stone as conditions demand sediment applied, dropped, washed or tracked onto public right-of-way must be removed immediately.
- Washing - Wheels shall be cleaned to remove sediment prior to entrance onto stabilized right-of-way. When washing is required, it shall be done on an area public right-of-way. When washing is required, it shall be done on an area public right-of-way.
- Periodic inspection and needed maintenance shall be provided after each rain.



CONSTRUCTION SPECIFICATIONS

- Attach a continuous piece of wire mesh (10" min. width by throat length plus 4") to the 2" x 4" weir (measuring throat length plus 2") as shown on the standard framing.
- Place a piece of approved filter cloth (40-80 sieve) of the same dimensions as the wire mesh over the wire mesh and securely attach to the 2" x 4" weir.
- Securely nail the 2" x 4" weir to 9" LMR vertical spacers to be located between the weir and inlet face (max. 6' apart).
- Place the assembly against the inlet throat and nail (minimum 2" lengths of 2" x 4" to the top of the weir at spacer locations. These 2" x 4" anchors shall extend across the inlet top and be held in place by sandbags or alternate weight.
- The assembly shall be placed so that top and spacers are a minimum 1' beyond both ends of the throat opening.
- Form the wire mesh and filter cloth to the concrete gutter and against the face of curb on both sides of the inlet. Place clean 2" stone over the wire mesh and filter fabric in such a manner as to prevent water from entering the inlet under or around the filter cloth.
- This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.
- Assure that storm flow does not bypass inlet by installing temporary earth or asphalt dike directing flow into inlet.

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. Unless 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.

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.

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 feet) 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 reseedings.

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 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. 54), temporary seeding (Sec. 50) and 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                 | 6.68 Acres          |
| Area Disturbed                     | 1.05 Acres          |
| Area to be seeded or paved         | 1.12 Acres          |
| Area to be vegetatively stabilized | 2.33 Acres          |
| Total Cut                          | 6200 Cu. Yds ± BAL. |
| Total Fill                         | 6200 Cu. Yds ± BAL. |
| 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 controls must be provided, if deemed necessary by the Howard County DPW 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.

CONSTRUCTION SEQUENCE

1. Obtain grading permit.
2. Install and maintain existing sediment control measures.
3. Excavate for foundations and rough grade.
4. Construct buildings, driveways and walkways. NOTE: Delay construction of building on lot number 13 until area is stabilized enough to remove trap #2 and associated dikes.
5. Final grade and stabilized in accordance with standards and specifications.

GW GUTSCHICK LITTLE & WEBER, P.A.  
ENGINEERS, PLANNERS, SURVEYORS  
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MD. 20866  
TELEPHONE: (301) 421-4024

REVISION

| NO. | DATE | BY | APP'R. |
|-----|------|----|--------|
|     |      |    |        |

PREPARED FOR:  
HALLMARK BUILDERS  
P.O. Box 2024 • Columbia, MD 21044 • (301) 994-4440

NOTES and DETAILS  
VILLAGE OF HICKORY RIDGE  
SECTION G AREA 1 LOTS 1-18  
5TH ELECTION DISTRICT OF HOWARD COUNTY  
COLUMBIA, MARYLAND

|               |             |                 |
|---------------|-------------|-----------------|
| SCALE         | ZONING      | G.L.W. FILE NO. |
| —             | NT          | 88072           |
| DATE          | TAX MAP No. | SHEET           |
| JANUARY, 1989 | 41          | 3 of 3          |