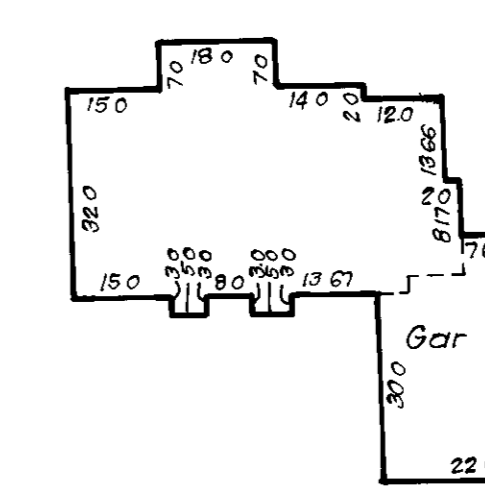
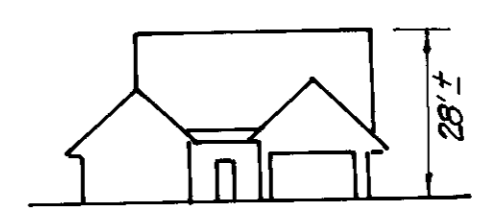


TYPICAL HOUSES
Scale 1" = 30'
NOTE: All Units Have 1 Roof Eaves, Front and Rear



LEGEND
CONTOUR INTERVAL: 2 FT
EXISTING CONTOUR: -110'
PROPOSED CONTOUR: -110'
SPOT ELEVATION: +10.5'
DIRECTION OF DRAINAGE: W
WALK OUT BASEMENT: W
TREES TO BE SAVED: W

ADDRESS CHART

Lot	Street Address
9	11800 Sweet Land Way
11	11800 Sweet Land Way
14	11850 Bright Passage
15	11860 Bright Passage
21	11884 Bright Passage
22	11885 Bright Passage
23	11881 Bright Passage
24	11877 Bright Passage

SPECIAL NOTES

- Approved road construction plans shall be used for public utilities.
- The water & sewer house connections not included in the Developer's Agreement shall remain to Howard County Plumbing Code. The on site W/M shall be 4" iron and the site shall be 4" iron.
- Stormwater management provided for in the V.I.I. of Hickory Ridge, P. 83, 120.
- Public water and sewer shown the center line. For more detailed information see water and sewer plan Contract No. 44-1591-1.

Lot	15, 21, 24
Zone	35
Water Code	E 2"
Sewer Code	6591000 & 6520030

GENERAL NOTES

- The land included is zoned New Town S1LT.
- Coordinates established by Maps Inc. in 1965 and Purdom & Leach in 1968 which were tied to the Maryland Bureau of Control Survey monuments and to U.S. Coast and Geodetic Survey monuments in the Columbia area.
- All roads are public and existing.
- Any damage to county owned rights of way to be corrected by Developer's expense.
- Total area included 3.955 Acres.
- Total number of lots: 8
- Reference Final Development Plan, criteria have 181 14 VII recorded in 30544 804 to 814
- Maximum lot coverage is 30%
- The Contractor or Developer shall contract the Construction Inspection, Survey Division, 24 hours in advance of commencement of work at 792-2631.



CLARK • FINEFROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS
7135 MINISTREL WAY • COLUMBIA, MD 21045 • (301) 381-7800 BALTO • (301) 821-8100 WASH

SITE DEVELOPMENT PLAN
LOTS 9, 11, 14, 15, 21, 24
COLUMBIA
VILLAGE OF HICKORY RIDGE
SECTION 3 AREA 14
5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

For: John McDonough Builders, Inc.
6310 Stevens Forest Road, Suite 104
Columbia, Maryland 21046

DATE: Oct 19 87

NOTE LOT 11 BASEMENT WILL NOT SEWER BY GRAVITY.

REVISIONS

N1	Add house typical	7-16-91
N2		

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

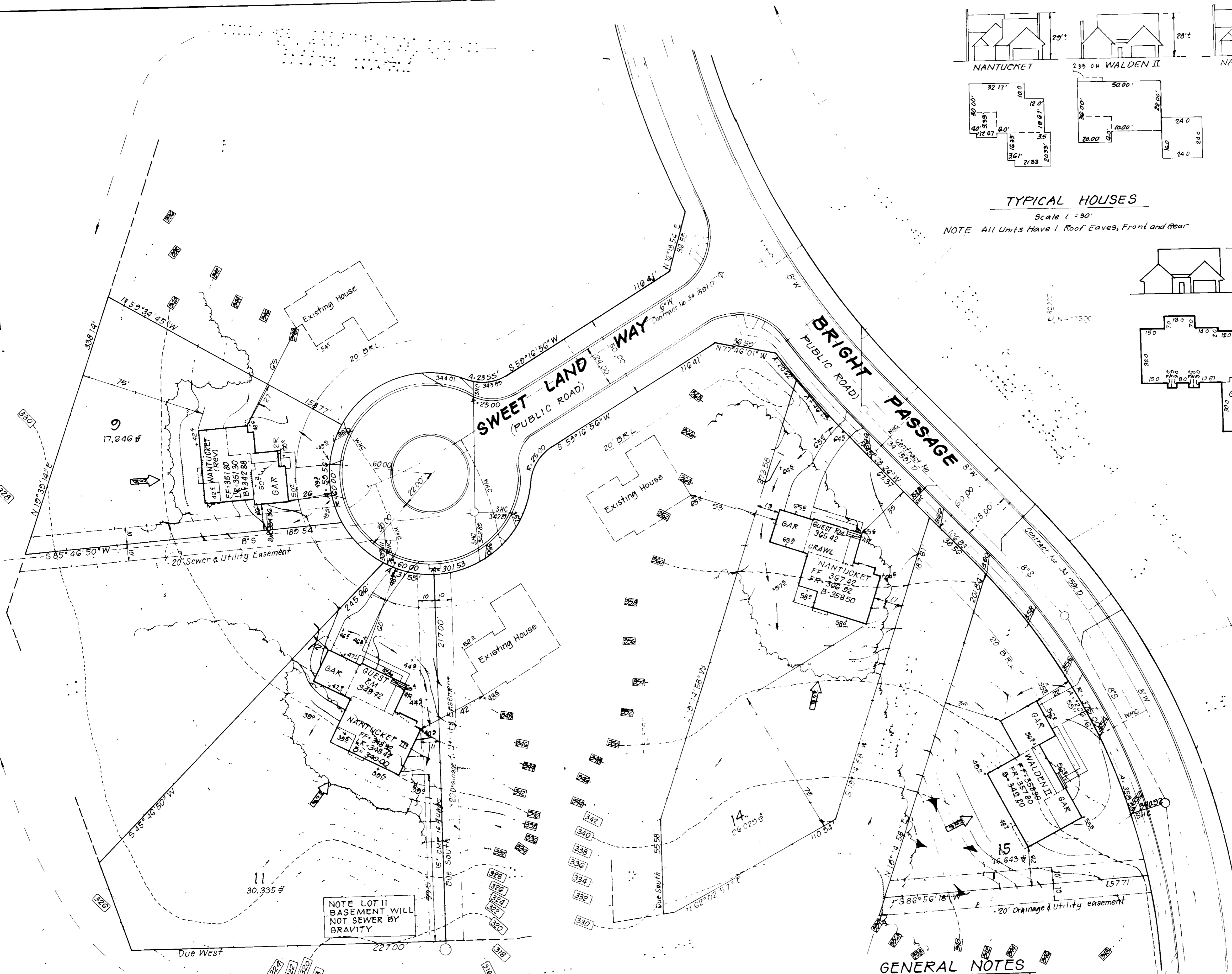
James E. Spiller 12-21-87
DATE

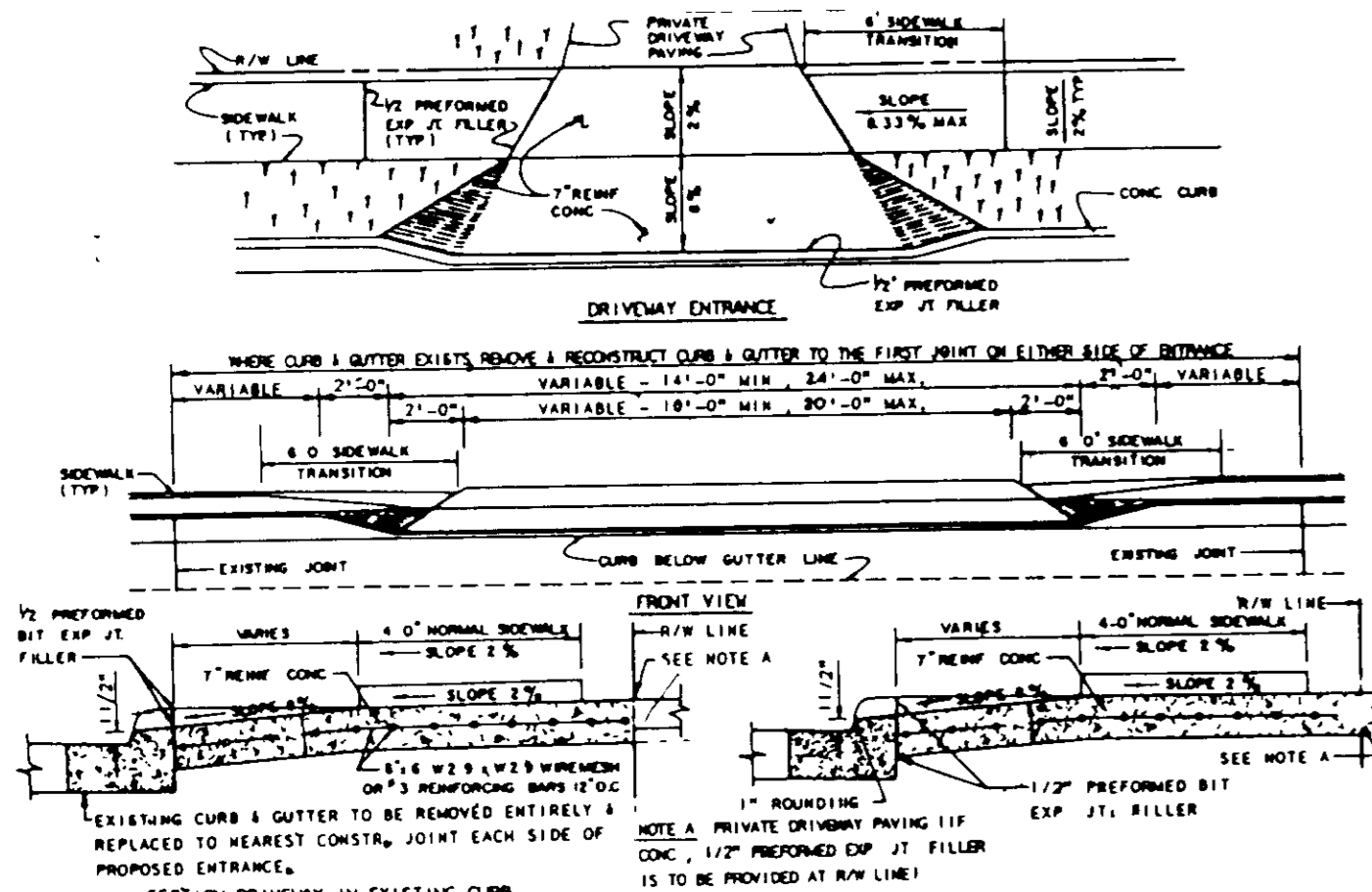
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

John A. ... 12-31-87
DATE

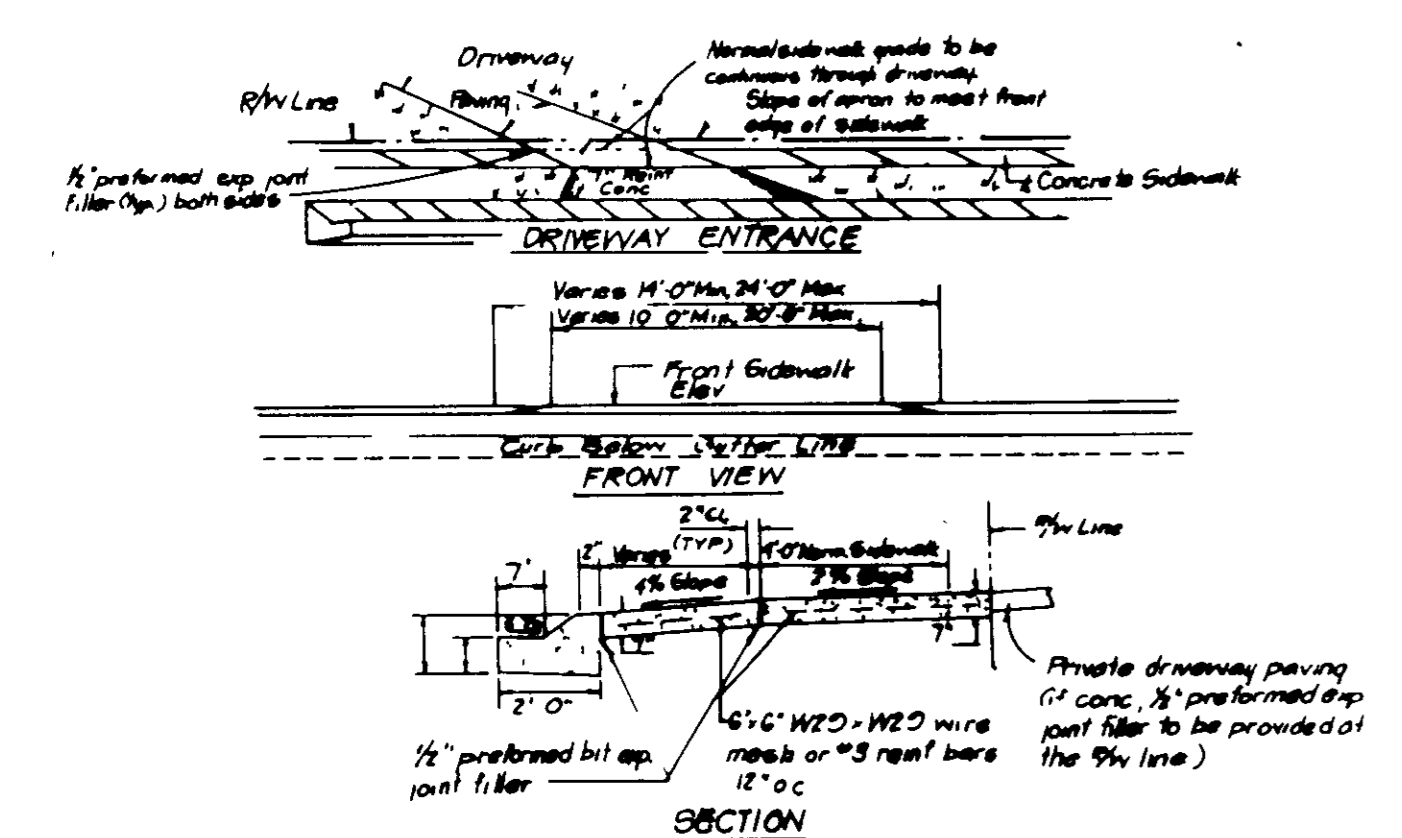
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE,
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

James E. Spiller 12-3-87
DATE

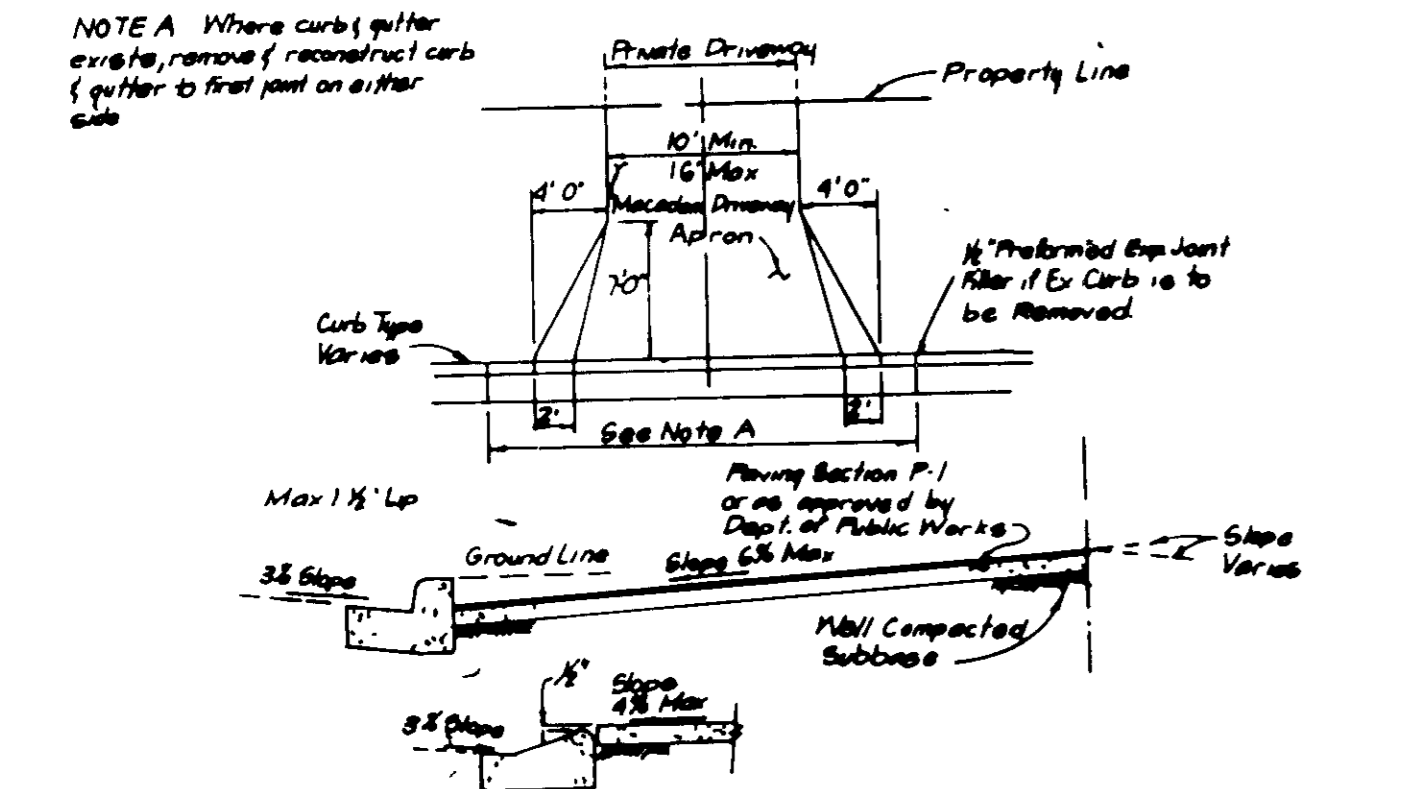




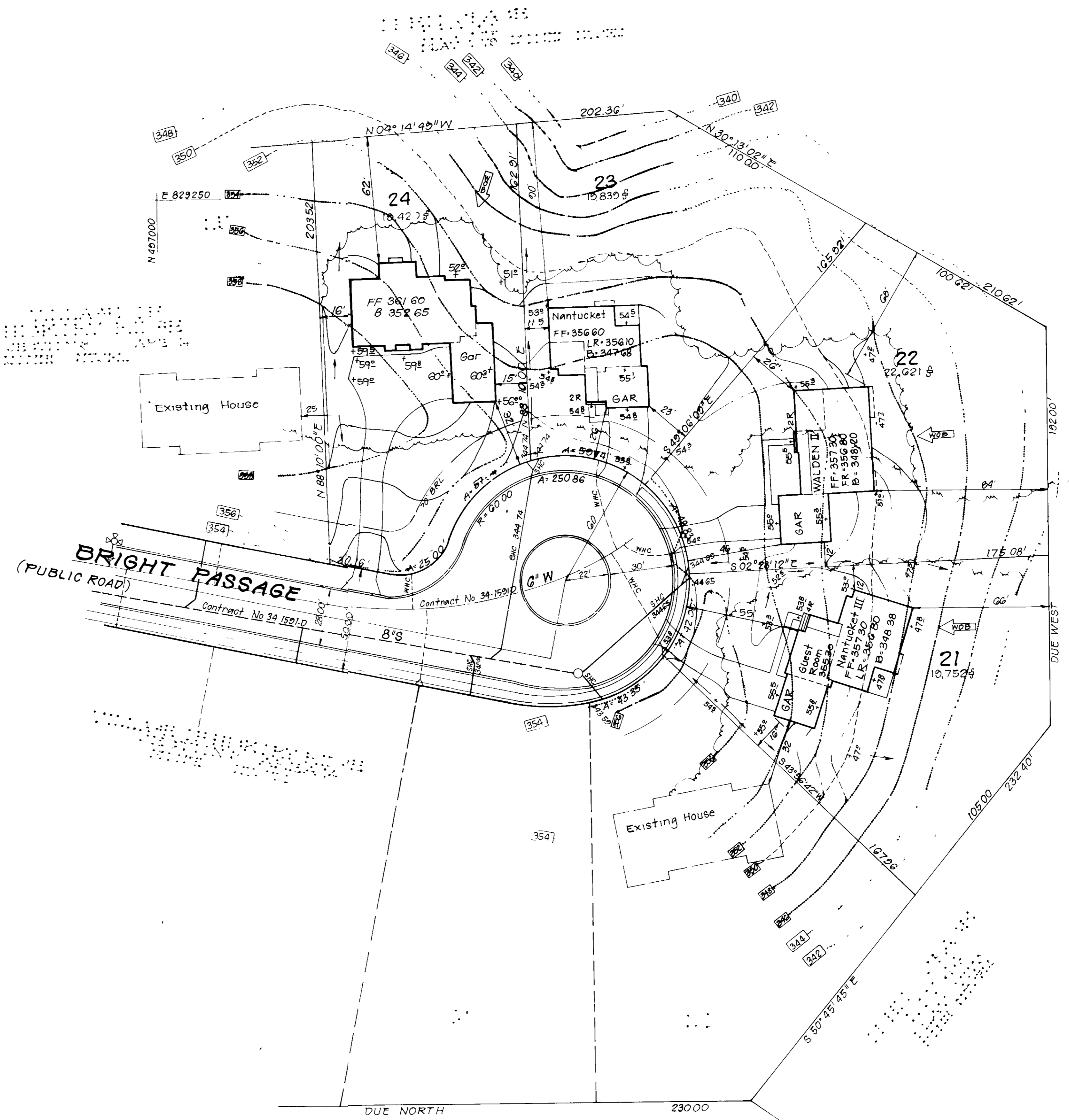
DRIVEWAY ABUTTING CLOSED SECTION WITH STR 7" COMB CURB & GUTTER & SIDEWALK SET BACK FROM CURB



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



DRIVEWAY ABUTTING CLOSED SECTION WITHOUT CONCRETE SIDEWALK



N 496500
E 829250
N 496500
E 829000

ADDRESS CHART	
LOT	STREET ADDRESS
21	11884 Bright Passage
22	11885
23	11886
24	11877 Bright Passage

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
John G. G... 12-24-87
COUNTY HEALTH OFFICER DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR
James S. ... 12-31-87
DATE
James S. ... 12/28/87
DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James S. ... 12/11/87
DATE
James S. ... 12-21-87
DATE

APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 12-3-87

No	REVISIONS	Date
1	Rev house and grd lot 24	7-16-91
2		



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

DESIGNED PDM
DRAWN GES
CHECKED JME
DATE Oct 10 87

SITE DEVELOPMENT PLAN
LOTS 9, 11, 14, 15, 21, 24
COLUMBIA
VILLAGE OF HICKORY RIDGE
SECTION 3 AREA 14

5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
For John McDonough Builders, Inc
6310 Stevens Forest Rd Suite 104
Columbia, Maryland 21046

SCALE 1"=30'
DRAWING 2 of 4
JOB NO 87-003
FILE NO 87-003

5DF 88-91c

SECTION 3 AREA 14

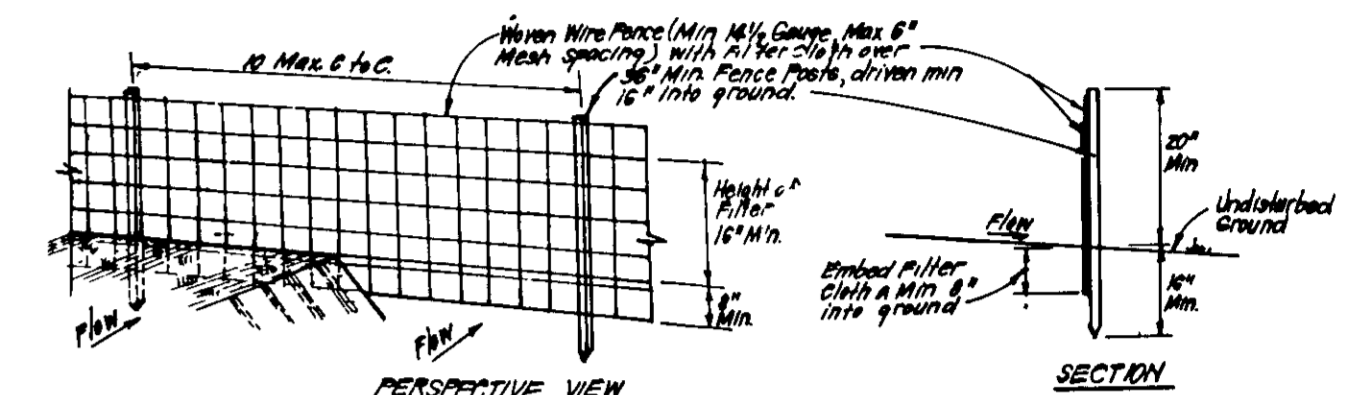
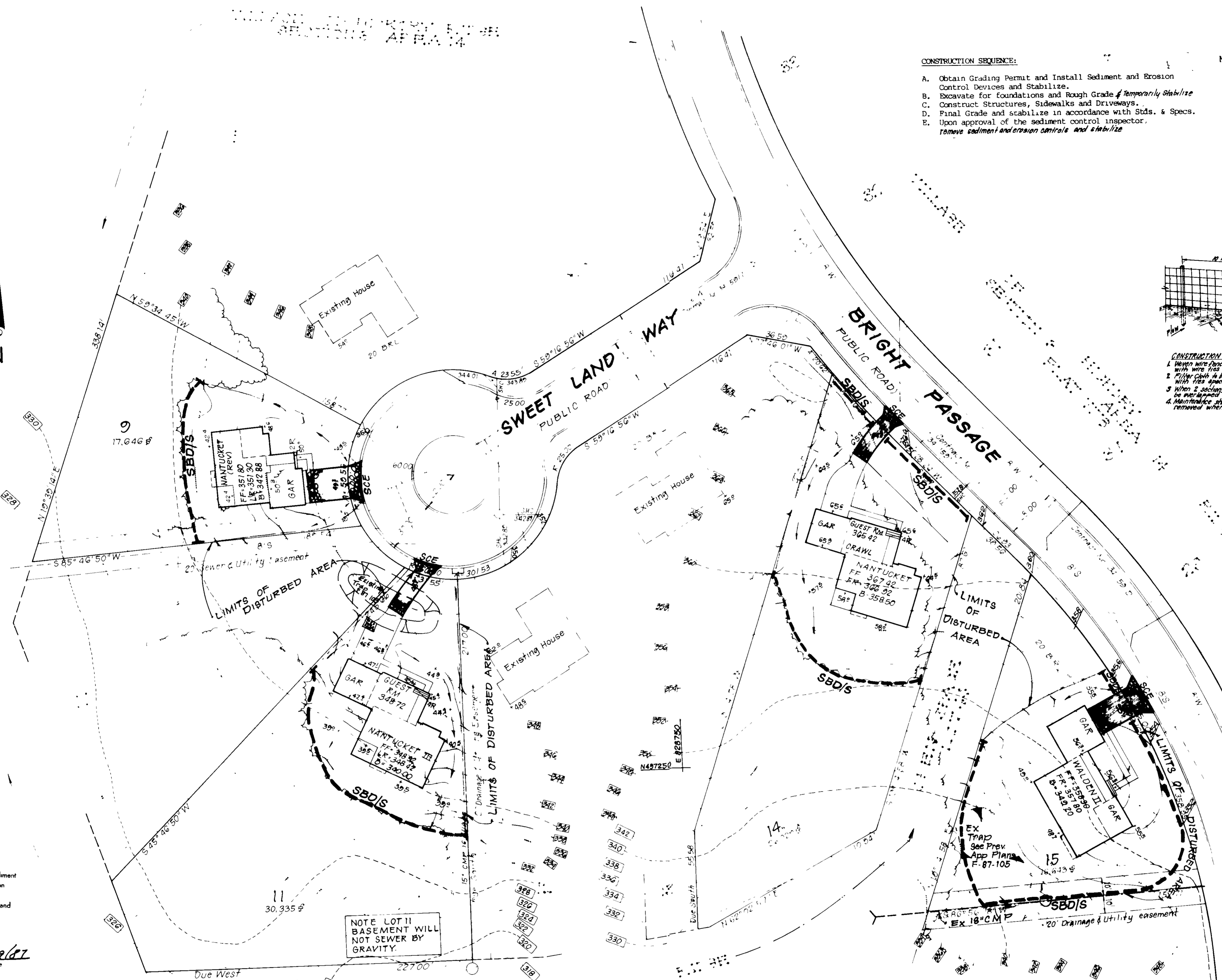
CONSTRUCTION SEQUENCE:

- A. Obtain Grading Permit and Install Sediment and Erosion Control Devices and Stabilize.
- B. Excavate for foundations and Rough Grade & Temporarily Stabilize
- C. Construct Structures, Sidewalks and Driveways.
- D. Final Grade and stabilize in accordance with Stds. & Specs.
- E. Upon approval of the sediment control inspector, remove sediment and erosion controls and stabilize.

NUMBER OF DAYS

- 14
- 30
- 120
- 30
- 14

VICINITY MAP
Scale 1" = 2000'



CONSTRUCTION SPECIFICATIONS:
 1. Heavy wire fence to be fastened securely to fence posts with wire ties or staples.
 2. Filter cloth to be fastened securely to heavy wire fence with ties spaced every 36\"/>

SILT FENCE DETAIL (S)
1/8\"/>

LEGEND

- Contour Interval 2 FT
- Existing Contour - - - - -
- Proposed Contour - - - - -
- Spot Elevation +.05
- Direction of Drainage →
- Walk out Basement
- Trees to be Saved
- Existing Trees
- Stabilized Const Entrance SOE
- Straw Bale Dike / Silt fence SBD'S

DEVELOPERS/BUILDERS 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 of Developer/Builder: *John F. Adams* Date: 10/29/87

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER: *James J. Adams* DATE: 12-21-87

APPROVED FOR PLANNING AND ZONING
 HOWARD COUNTY OFFICE OF PLANNING & ZONING
 PLANNING DIRECTOR: *James J. Adams* DATE: 12-31-87

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: *James J. Adams* DATE: 12-21-87

APPROVED
 DIVISION OF LAND DEVELOPMENT &
 ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE 12-3-87

Reviewed for HOWARD .S.C.D.
 Name: *Howard .S.C.D.*
 and meets Technical Requirements
 Signature: *John F. Adams* Date: 12/11/87
 U.S. Soil Conservation Service

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: *John F. Adams* DATE: 10-28-87
 6 Nelson Clark

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 Signature: *Stephen L. Smith* DATE: 12-11-87
 APPROVED

CLARK • FINEFROCK & SACKETT, INC
 ENGINEERS • PLANNERS • SURVEYORS
 7185 MINSTREL WAY • COLUMBIA, MD 21045 • (301) 381-7500 - BALTO • (301) 621-8100 - WASH

DESIGNED: JLS
 DRAWN: G.S.
 CHECKED: JLS
 DATE: 10/28/87

SEDIMENT AND EROSION CONTROL PLAN
 LOTS 7, 11, 14, 15, 21-24
 COLUMBIA
 VILLAGE OF HICKORY RIDGE
 SECTION 3 AREA 14
 5TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE: 1"=30'
 DRAWING: 3 of 4
 JOB NO.: 87-093
 FILE NO.: 87-093-SF

For: John M. Donogh Builders, Inc.
 2311 Stevens Forest Road, Suite 104
 Columbia, Maryland 21046

SDP-88-91c

PERMANENT SEEDING NOTES

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

Soilbed Preparation - Loosen upper three inches of soil by raking, disking 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 gal 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.

TEMPORARY SEEDING NOTES

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

Soilbed Preparation - Loosen upper three inches of soil by raking, disking 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)

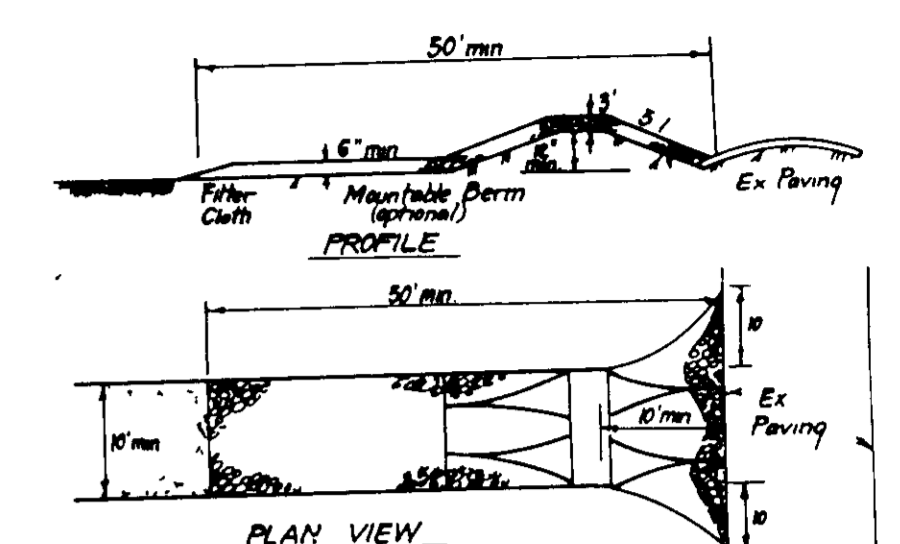
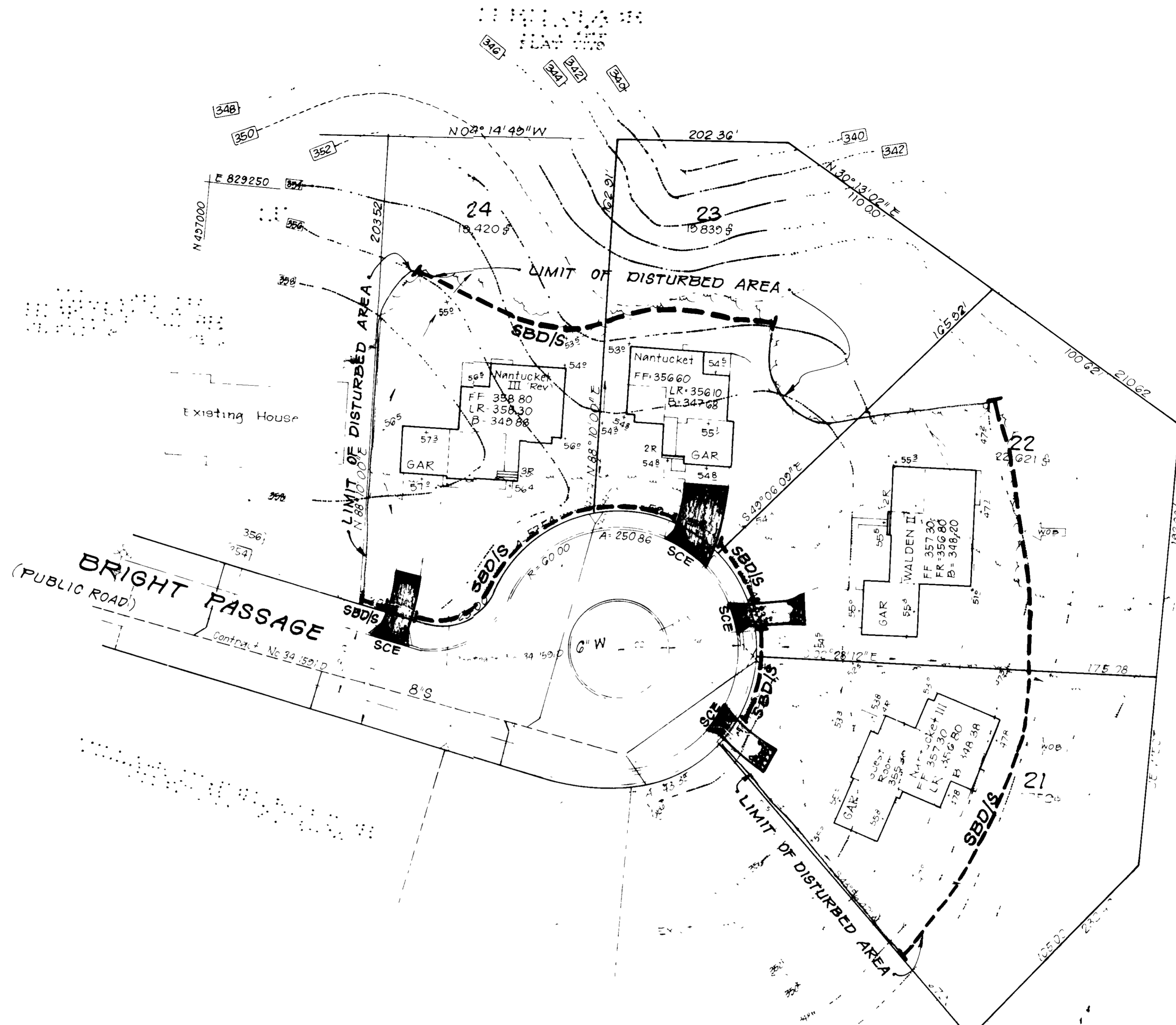
Seeding - For periods March 1 thru April 30 and from August 15 thru November 15, seed with 30 lbs per acre annual rye (3 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (.07 lbs/1000 sq ft). For the period November 16 thru February 28, protect site 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.

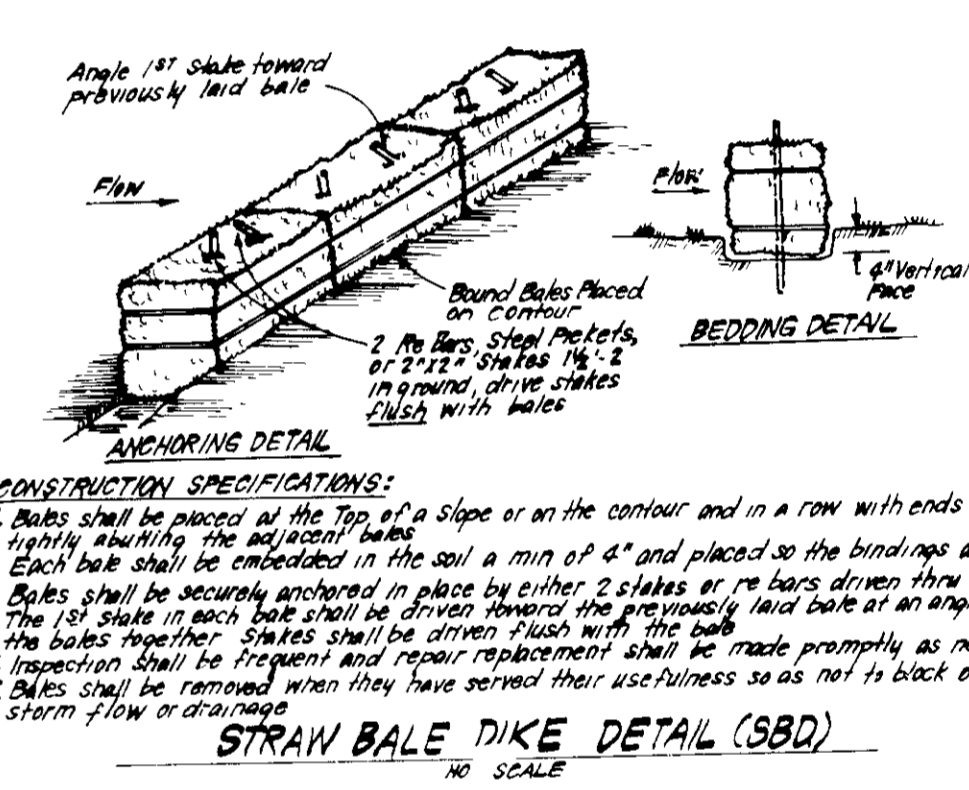
Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

SEDIMENT CONTROL NOTES

- 1) A minimum of 2-hour notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction (892-2437)
- 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 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: 3455 Acres
Area Disturbed: 1371 Acres
Area to be roofed or paved: 1435 Acres
Area to be vegetatively stabilized: 1026 Acres
Total Cut: 2550 Cu. yds
Total Fill: 2020 Cu. yds
Offsite waste/borrow area location
- 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 DEW 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 "No-Sod" 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).
- 13) The total amount of straw bale dikes/silt fence equals 1470 L.F.



- 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 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 mounted berm with 3" 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 for dressing with additional stone be condition deemed and/or repair and/or cleanup of any material used to trap sediment. All sediment applied, dropped, washed or tracked onto public rights-of-way must be removed immediately.
 8. Washing - Where it shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done through a trap and/or catchment device.
 9. Periodic inspection and needed maintenance shall be provided after each rain.
- STABILIZED CONSTRUCTION ENTRANCE (SCE)**



- 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 secured in place by either 2 stakes or 18 gauge wire driven thru the bales. The 18 gauge wire shall be driven flush with the bales.
 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)**

Reviewed for HOWARD SCD
and meets Technical Requirements
Signature: J. Nelson
Date: 12/1/87
U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED
FOR SOIL EROSION AND SEDIMENT
CONTROL BY THE HOWARD SOIL
CONSERVATION DISTRICT.
Signature: Stephen L. Fisher
APPROVED DATE: 12-2-87

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Signature: [Signature]
DATE: 12-21-87

APPROVED FOR PLANNING AND ZONING
HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Signature: [Signature]
DATE: 12-31-87

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS AND PUBLIC STORM DRAINAGE SYSTEMS AND PUBLIC TRAILS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Signature: [Signature]
DATE: 12-21-87

APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE: 12-3-87

DEVELOPER'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: J. Nelson
Date: 10/29/87

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: G. Nelson
Date: 10-28-87

		ENGINEERS • PLANNERS • SURVEYORS 7155 MINISTREL WAY • COLUMBIA MD 21045 • (301) 981-7500 - BALTO • (301) 821-8100 - WASH			
DESIGNED	JLS	SEDIMENT AND EROSION CONTROL PLAN LOTS 2, 11, 14, 15, 21-24 COLUMBIA VILLAGE OF HICKORY RIDGE SECTION 3 AREA 13	SCALE	1" = 30'	
DRAWN	G, B		DRAWING	404	
CHECKED	JLS	JOB NO	87-093	FILE NO	87-093-SE
DATE	10/28/87				

SDP-88-91c