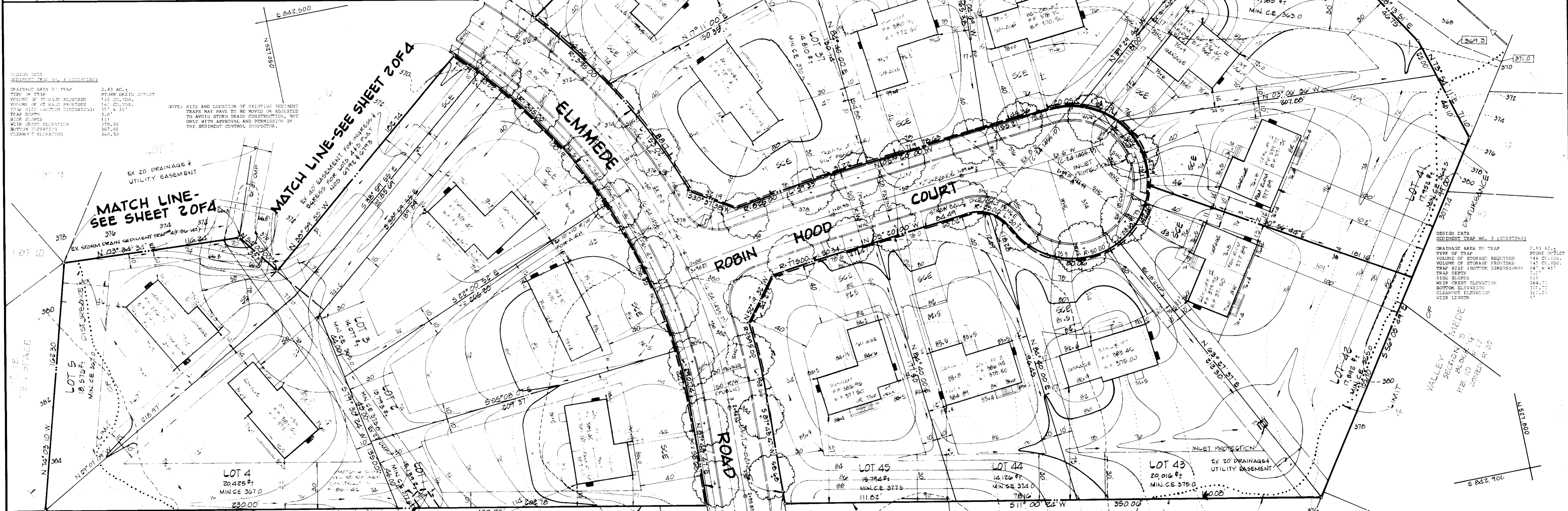


CHART		ADDRESS CHART		ADDRESS CHART	
LOT	STREET ADDRESS	LOT	STREET ADDRESS	LOT	STREET ADDRESS
1	3200	22	3213	43	3208
2	3204	24	3216	44	3204
3	3208	26	3212	45	3200
4	3212	25	3208		
5	3216	26	3204		
6	3220	27	3200		
7	3224	28	3200		
8	3201	29	3204		
9	3205	30	3208		
10	3209	31	3212		
11	3213	32	3216		
12	3217	33	3220		
13	3221	34	3224		
14	3225	35	3228		
15	3229	36	3232		
16	3233	37	3236		
17	3237	38	3240		
18	3241	39	3244		
19	3245	40	3248		
20	3249	41	3252		
21	3253	42	3256		



APPROVED:
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE: 6-20-86
[Signature]

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]
 DATE: 7/10/86

DEVELOPER'S CERTIFICATE
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND CONSTRUCTION FOR EROSION AND SEDIMENT CONTROL AND THAT ALL 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 ONSITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.
[Signature]
 DATE: 7/10/86

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
 U.S. SOIL CONSERVATION SERVICE DATE: 7-16-86
 THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT APPROVED:
[Signature]
 DATE: 7-16-86

APPROVED: OFFICE OF PLANNING AND ZONING
[Signature] 7-23-86
 PLANNING DIRECTOR DATE
[Signature] 7-23-86
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION
 APPROVED: HOWARD COUNTY HEALTH DEPARTMENT FOR PUBLIC WATER AND SEWERAGE SYSTEMS
[Signature] 7-22-86
 HEALTH OFFICER DATE

APPROVED: DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER & SEWER AND STORM DRAINAGE SYSTEMS AND ROADS.
[Signature] 7-17-86
 DIRECTOR, PUBLIC WORKS DATE
 CHIEF, BUREAU OF ENGINEERING DATE: 7-17-86
 SUBDIVISION: ENCHANTED FOREST ESTATES SECTION/AREA: 1/1 LOT NOS: 1-17, 19-33, 35-45
 PLAT NOS: 6791-GTD-4 BLOCK NO: 243 ZONE: R-20 TAX/ZONE: 24 ELEC. DIST: 340 CENSUS TR: 6032
 WATER CODE: F-14 SEWER CODE: 5180000

SITE DEVELOPMENT PLAN
 ENCHANTED FOREST ESTATES
 SECTION ONE, AREA ONE
 LOTS 1-17, 19, 33, 35-45
 TAX MAP 24 P/O PARCEL 20
 2ND ELECTION DISTRICT HOWARD COUNTY, MD
 SCALE 1"=30'
 REVISIONS: JULY 10, 1986
 SHEET 1 OF 4

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERS & LAND SURVEYORS
 8388 COURT AVENUE
 ELLICOTT CITY, MARYLAND 21043
 (301) 461-2855

ENGINEER'S CERTIFICATE
[Signature]
 DATE: 7/10/86

DEVELOPER'S CERTIFICATE
[Signature]
 DATE: 7/10/86

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
 U.S. SOIL CONSERVATION SERVICE DATE: 7-16-86
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[Signature]
 DATE: 7-16-86

APPROVED: OFFICE OF PLANNING AND ZONING
[Signature] 7-23-86
 PLANNING DIRECTOR DATE
[Signature] 7-23-86
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[Signature] 7-22-86
 HEALTH OFFICER DATE

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[Signature] 7-17-86
 DIRECTOR, PUBLIC WORKS DATE
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 SUBDIVISION: ENCHANTED FOREST ESTATES SECTION/AREA: 1/1 LOT NOS: 1-17, 19-33, 35-45
 PLAT NOS: 6791-GTD-4 BLOCK NO: 243 ZONE: R-20 TAX/ZONE: 24 ELEC. DIST: 340 CENSUS TR: 6032
 WATER CODE: F-14 SEWER CODE: 5180000

SITE DEVELOPMENT PLAN
 ENCHANTED FOREST ESTATES
 SECTION ONE, AREA ONE
 LOTS 1-17, 19, 33, 35-45
 TAX MAP 24 P/O PARCEL 20
 2ND ELECTION DISTRICT HOWARD COUNTY, MD
 SCALE 1"=30'
 REVISIONS: JULY 10, 1986
 SHEET 1 OF 4

NOTE: SIZE AND LOCATION OF EXISTING SEDIMENT TRAPS MAY HAVE TO BE MOVED OR ADJUSTED TO AVOID STORM DRAIN CONSTRUCTION, BUT ONLY WITH APPROVAL AND PERMISSION BY THE SEDIMENT CONTROL INSPECTOR.



DESIGN DATA
 SEDIMENT TRAP NO. 3 (EXISTING)

DRAINAGE AREA TO TRAP	2.15 AC.
TYPE OF TRAP	STONE WITHIN
VOLUME OF STORAGE REQUIRED	144 CU. YDS.
VOLUME OF STORAGE PROVIDED	144 CU. YDS.
TRAP SIZE (BOTTOM DIMENSIONS)	24" x 48"
TRAP DEPTH	24"
MIN. FLOW RATE	1.0 CFS
MIN. FLOW VELOCITY	1.0 FPS
MIN. FLOW LENGTH	170.00'
CLEANOUT ELEVATION	361.50'
MIN. FLOW VELOCITY	1.0 FPS

- GENERAL NOTES:**
- SUBJECT PROPERTY IS LOCATED ON TAX MAP 24, PART OF PARCEL 20.
 - PLAN REFERENCE: 6791-GTD-4.
 - PRESENT ZONING IS: R-20 (RESIDENTIAL-SINGLE).
 - MINIMUM SETBACKS:
 FRONT: 50' (LOTS 20, 2000 S.F.)
 40' (LOTS 20, 900 S.F.)
 SIDE: 10' (FROM PUBLIC R/W)
 REAR: 10'
 - TYPICAL HOUSE DIMENSIONS, SCHEMATIC PROFILE, DETAILS, SEDIMENT CONTROL NOTES AND SPECIFICATIONS CAN BE FOUND ON SHEET 4 OF 4.
 - SITE ANALYSIS:
 A. TOTAL NUMBER OF LOTS: 43
 B. TOTAL NUMBER OF UNITS: 11,702 AC-1
 C. STREET TREES WILL BE PROVIDED UNDER F-88-142 BY THE DEVELOPER - GREENWIN #1 JOINT VENTURE.
 - STORMWATER MANAGEMENT IS WAIVED UNDER F-88-142.
 - THE CONTRACTOR OR DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION DIVISION, 24 HOURS IN ADVANCE OF COMMENCEMENT OF WORK # 792-2430.

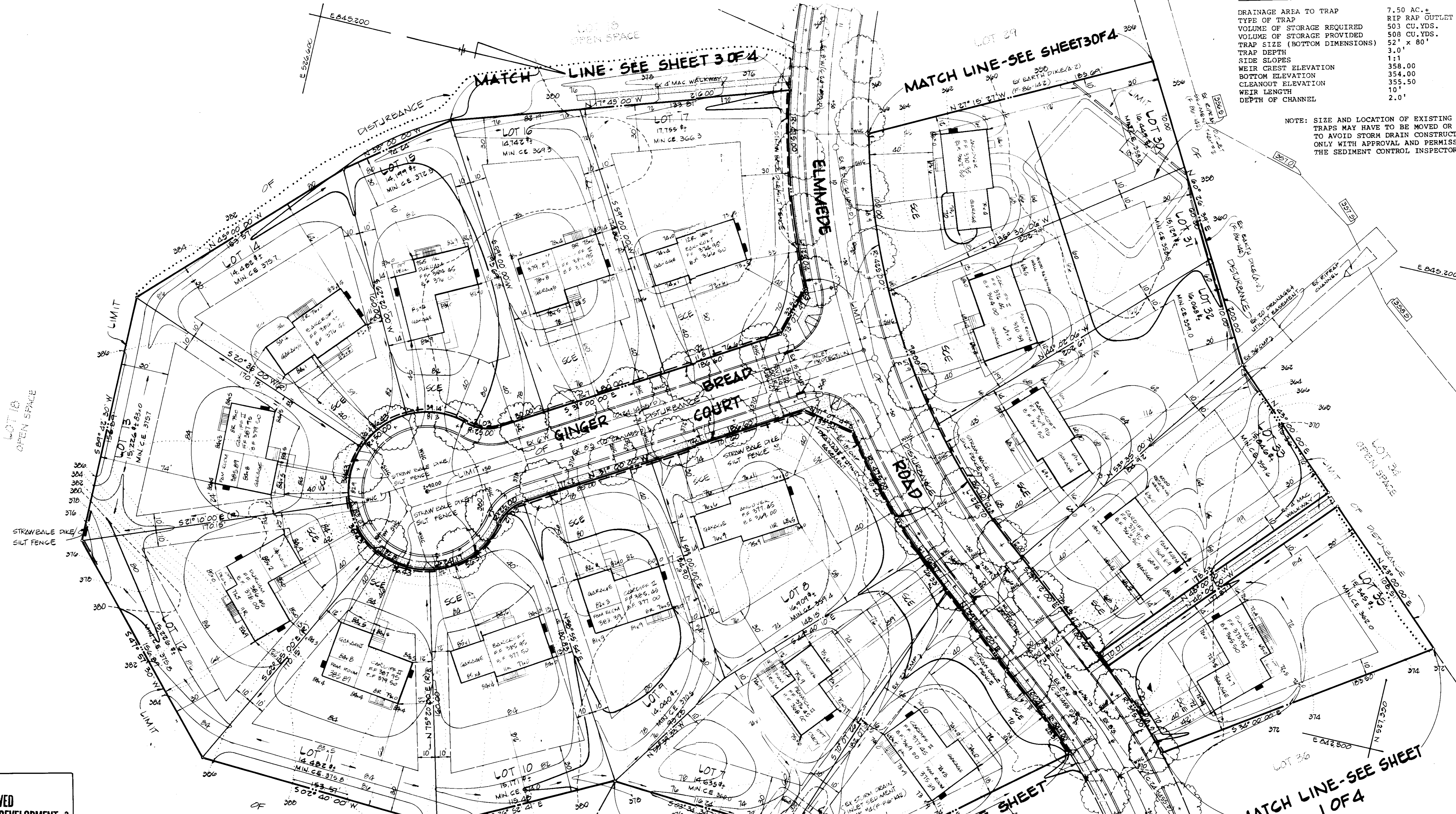
OWNER: GREENWIN #1 JOINT VENTURE
 50 GORDON GREENSPUN SUITE 315
 COMMERCIAL CENTRE EAST
 1777 REISTERTOWN ROAD
 BALTIMORE, MARYLAND 21208

DEVELOPER: WINCHESTER HOMES, INC.
 P.O. BOX 1000
 MILLERSVILLE, MD 21108

DESIGN DATA
SEDIMENT TRAP NO. 2 (EXISTING)

DRAINAGE AREA TO TRAP	7.50 AC. ±
TYPE OF TRAP	RIP RAP OUTLET
VOLUME OF STORAGE REQUIRED	503 CU. YDS.
VOLUME OF STORAGE PROVIDED	508 CU. YDS.
TRAP SIZE (BOTTOM DIMENSIONS)	52' x 80'
TRAP DEPTH	3.0'
SIDE SLOPES	1:1
WEIR CREST ELEVATION	358.00
BOTTOM ELEVATION	354.00
CLEANOUT ELEVATION	355.50
WEIR LENGTH	10'
DEPTH OF CHANNEL	2.0'

NOTE: SIZE AND LOCATION OF EXISTING SEDIMENT TRAPS MAY HAVE TO BE MOVED OR ADJUSTED TO AVOID STORM DRAIN CONSTRUCTION, BUT ONLY WITH APPROVAL AND PERMISSION BY THE SEDIMENT CONTROL INSPECTOR.



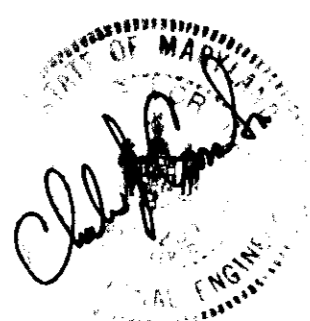
DESIGN DATA
SEDIMENT TRAP NO. 4 (EXISTING)

DRAINAGE AREA TO TRAP	2.43 AC. ±
TYPE OF TRAP	STORM DRAIN OUTLET
VOLUME OF STORAGE REQUIRED	162 CU. YDS.
VOLUME OF STORAGE PROVIDED	162 CU. YDS.
TRAP SIZE (BOTTOM DIMENSIONS)	35' x 35'
TRAP DEPTH	3.0'
SIDE SLOPES	1:1
WEIR CREST ELEVATION	370.00
BOTTOM ELEVATION	367.00
CLEANOUT ELEVATION	368.50

NOTE: SIZE AND LOCATION OF EXISTING SEDIMENT TRAPS MAY HAVE TO BE MOVED OR ADJUSTED TO AVOID STORM DRAIN CONSTRUCTION, BUT ONLY WITH APPROVAL AND PERMISSION BY THE SEDIMENT CONTROL INSPECTOR.

OWNER	DEVELOPER
GREENWIN #1 JOINT VENTURE	WINCHESTER HOMES, INC.
56 GREENWOOD GREENSPRING	P.O. BOX 1000
SUITE 215	MILLERSVILLE, MD 21108
COMMERCE CENTRE EAST	
1717 REGISTRATION ROAD	
BALTIMORE, MARYLAND 21208	

APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 6-20-86



LANDSCAPE LEGEND:

STREET TREES (F-86-142)
2-1/2" MIN. CALIPER SUGAR MAPLES OR EQUAL
PLANTED @ 40' O/C
(BY THE OWNER, GREENWIN #1 JOINT VENTURE)

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERS & LAND SURVEYORS
8388 COURT AVENUE
ELLCOTT CITY, MARYLAND 21043
(301) 461-2855

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.

7/10/86
SIGNATURE OF ENGINEER

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 DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ONSITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

7/10/1986
SIGNATURE OF DEVELOPER

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

U.S. SOIL CONSERVATION SERVICE DATE

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

7/16/86
DATE

APPROVED: OFFICE OF PLANNING AND ZONING

7-23-86
DATE

7-23-86
DATE

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

7-22-86
DATE

APPROVED: DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER & SEWER AND STORM DRAINAGE SYSTEMS AND ROADS

7-8-86
DATE

7-17-86
DATE

SUBDIVISION	SECTION/AREA	LOT NOS
ENCHANTED FOREST ESTATES	1/1	1-17, 19-33, 35-45
PLAT NOS	BLOCK NO	ZONE
6791-6794	2+2	R-20
WATER CODE	F-14	SEWER CODE
		5752000

SITE DEVELOPMENT PLAN
ENCHANTED FOREST ESTATES
SECTION ONE, AREA ONE
LOTS 1-17, 19, 33, 35-45
TAX MAP 24 P/O PARCEL 20
2ND ELECTION DISTRICT HOWARD COUNTY, MD
SCALE: 1"=30'
REVISED JULY 10, 1986
SHEET 2 OF 4

5PP-86-254

NOTE: SIZE AND LOCATION OF EXISTING SEDIMENT TRAPS MAY HAVE TO BE MOVED OR ADJUSTED TO AVOID STORM DRAIN CONSTRUCTION, BUT ONLY WITH APPROVAL AND PERMISSION BY THE SEDIMENT CONTROL INSPECTOR.

DESIGN DATA
SEDIMENT TRAP NO. 1 (EXISTING)

DRAINAGE AREA TO TRAP	4.77 AC. ±
TYPE OF TRAP	STONE OUTLET
VOLUME OF STORAGE REQUIRED	320 CU. YDS.
VOLUME OF STORAGE PROVIDED	321 CU. YDS.
TRAP SIZE (BOTTOM DIMENSIONS)	40' x 64'
TRAP DEPTH	3.0'
SIDE SLOPES	1:1
WEIR CREST ELEVATION	351.00
BOTTOM ELEVATION	347.00
CLEANOUT ELEVATION	348.50
WEIR LENGTH	19'

1. OBTAIN TRADING PERMIT. INSPECT EXISTING SEDIMENT TRAPS AND MAKE ANY NECESSARY REPAIRS TO MAINTAINANCE TO THE TRAPS PRIOR TO BEGINNING ANY WORK ON THIS PROJECT.
2. CONSTRUCT STONE CONSTRUCTION ENTRANCE FOR LOTS AS SHOWN HEREON.
3. INSTALL STRAW BALE DIKE OR SILT FENCE ON LOTS AS SHOWN HEREON.
4. CLEAR AND GRUB HOUSE SITES TO SUBGRADE.
5. LOCATE AND SET FOUNDATIONS AND BERTHOUSES.
6. SEDIMENT SHALL BE REMOVED FROM THE SEDIMENT TRAPS WHEN THE CLEANOUT ELEVATION HAS BEEN REACHED.
7. THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE OF THE SEDIMENT AND EROSION CONTROL STRUCTURES SHOWN HEREON, AFTER EACH RAINFALL AND ON A DAILY BASIS.
8. THE SEDIMENT TRAPS SHALL BE DETERMINED BY PUMPING. THE SEDIMENT FROM THE TRAPS SHALL BE PLACED UP-GRADE FROM THE SEDIMENT TRAPS IN SUCH A MANNER AS NOT TO INTERFERE WITH CONSTRUCTION OPERATIONS OR CAUSE EROSION DOWNGRADE FROM THE SEDIMENT TRAPS.
9. STORM TRAPS MUST EMPTY INTO SEDIMENT TRAPS.
10. REMOVE SEDIMENT FROM ROADSIDE AND STREET STORM DRAINAGE ENTRANCES AS REQUIRED.
11. STAKE GRADE LOTS AND STABILIZE. INSTALL DRIVEWAYS AND SIDEWALKS.
12. REMOVE STRAW BALE DIKE OR SILT FENCE AND STABILIZE.
13. AFTER PERMISSION HAS BEEN GIVEN BY SEDIMENT CONTROL INSPECTOR BACKFILL SEDIMENT TRAPS. STORM DRAIN CONSTRUCTION WILL BE COMPLETED AFTER CONTRIBUTING DRAINAGE AREAS ARE STABILIZED AND TRAPS HAVE BEEN REMOVED. STABILIZE ALL REMAINING DISTURBED AREAS WITH PERMANENT SEEDING MIXTURE AND STRAW MULCH.

DESIGN DATA
SEDIMENT TRAP NO. 5 (EXISTING)

DRAINAGE AREA TO TRAP	2.54 AC. ±
TYPE OF TRAP	STONE OUTLET
VOLUME OF STORAGE REQUIRED	171 CU. YDS.
VOLUME OF STORAGE PROVIDED	172 CU. YDS.
TRAP SIZE (BOTTOM DIMENSIONS)	30' x 36'
TRAP DEPTH	3.0'
SIDE SLOPES	2:1
WEIR CREST ELEVATION	354.00
BOTTOM ELEVATION	350.00
CLEANOUT ELEVATION	351.50
WEIR LENGTH	10.5'

APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE: 6-20-86
[Signature]

[Signature]

LANDSCAPE LEGEND:
STREET TREES (F-86-142)
2-1/2" MIN. CALIPER SUGAR MAPLES OR EQUAL
PLANTED @ 40' O/C
(BY THE OWNER, GREENWIN #1 JOINT VENTURE)

OWNER
GREENWIN #1 JOINT VENTURE
50 GORDON GREENSPUN
SUITE 610
COMMERCE CENTRE EAST
1717 REGISTERED ROAD
BALTIMORE, MARYLAND 21208

DEVELOPER
WINCHESTER HOMES, INC.
P.O. BOX 1000
MILLERSVILLE, MD 21108

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERS & LAND SURVEYORS
8388 COURT AVENUE
ELLICOTT CITY, MARYLAND 21043
(301) 461-2855

ENGINEER'S CERTIFICATE
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[Signature]
SIGNATURE OF ENGINEER

7/10/86
DATE

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"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 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 HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

[Signature]
SIGNATURE OF DEVELOPER

7/10/1986
DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

U.S. SOIL CONSERVATION SERVICE DATE

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

APPROVED:
[Signature]
DISTRICT
HOWARD SOIL CONSERVATION DISTRICT

7-16-86
DATE

APPROVED OFFICE OF PLANNING AND ZONING

[Signature] 7-23-86
PLANNING DIRECTOR DATE

[Signature] 7-23-86
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

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

[Signature] 7-22-86
HEALTH OFFICER DATE

APPROVED: DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER & SEWER AND STORM DRAINAGE SYSTEMS, AND ROADS.

[Signature] 7-18-86
DIRECTOR, PUBLIC WORKS DATE

[Signature] 7-23-86
CHIEF, BUREAU OF ENGINEERING DATE

SUBDIVISION	SECTION/AREA	LOT NOS.
ENCHANTED FOREST ESTATES	1/1	1-17, 19, 33, 35-45
PLAT NOS.	BLOCK NO.	ZONE
GT 11 2734	243	R 30
WATER CODE	ELEC. DIST.	CENSUS TR.
F-14	2ND	6022
	SEWER CODE	
	5950000	

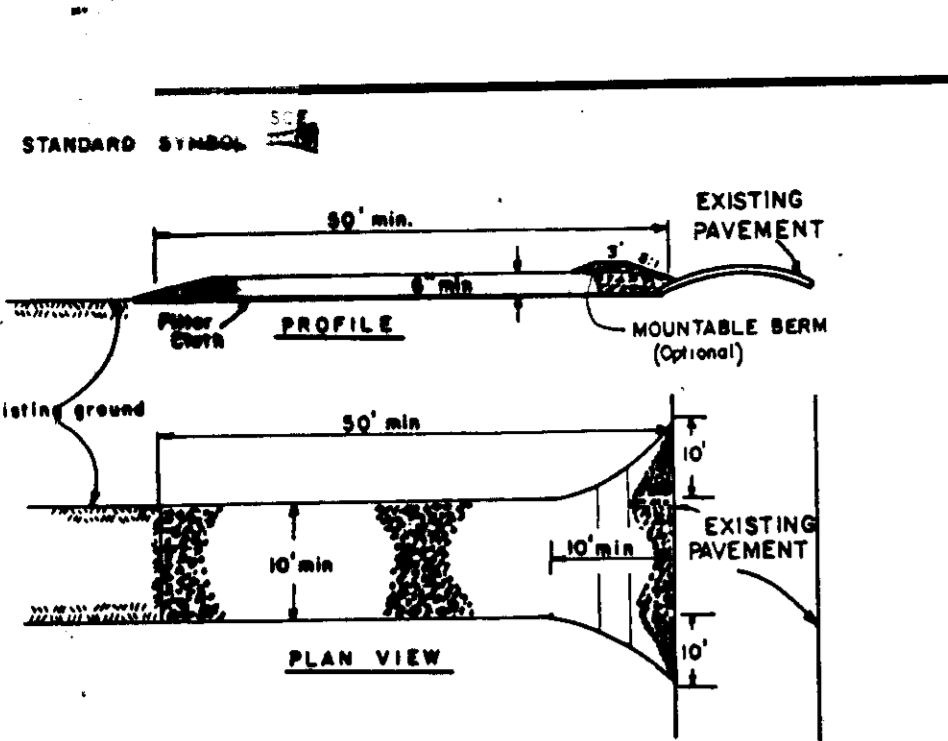
SITE DEVELOPMENT PLAN
ENCHANTED FOREST ESTATES
SECTION ONE, AREA ONE
LOTS 1-17, 19-33, 35-45

TAX MAP 24 P/O PARCEL 20
2ND ELECTION DISTRICT HOWARD COUNTY, MD

SCALE 1" = 30'
REVISED JULY 10, 1986
SHEET 3 OF 4

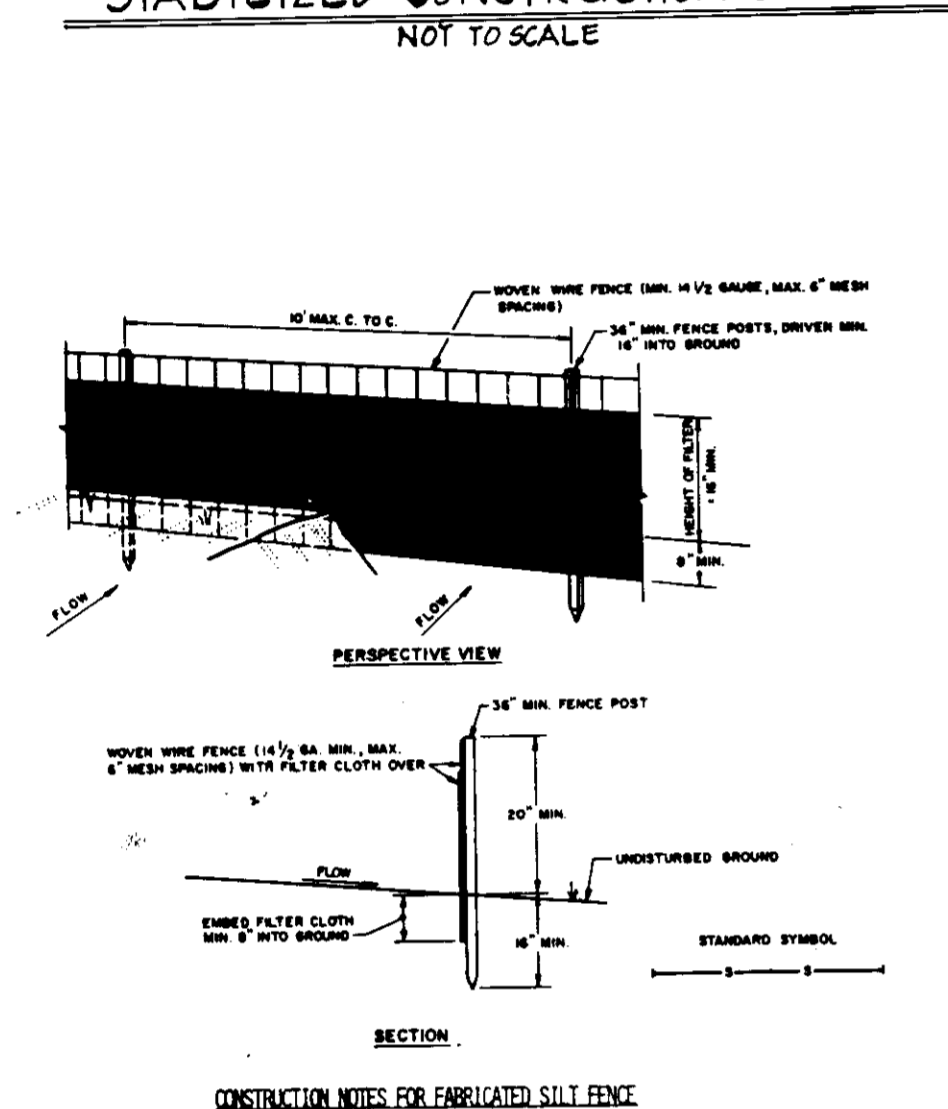
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SDP-86-254



STABILIZED CONSTRUCTION ENTRANCE NOT TO SCALE

1. 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 20 foot minimum length would apply). Thickness - Not less than 6" (6) inches. Width - 20" (16) foot minimum, but not less than the full width at points where layout or access is required. Filter cloth - Will be placed over the entire area prior to placing of stone. Filter shall 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. If piping is impractical, a malleable beam with 1/4" slopes will be permitted. Maintenance - The entrance shall be maintained in a condition which will prevent tracking of flowing sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately. 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. Periodic inspection and needed maintenance shall be provided after each rain.



CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. Move wire fence to be fastened securely to fence posts with wire ties or staples.

2. Filter cloth to be fastened securely to fence posts with 1/2" x 2" staples every 2' at top and mid section.

3. Main two sections of filter cloth should be overlapped by six inches and folded.

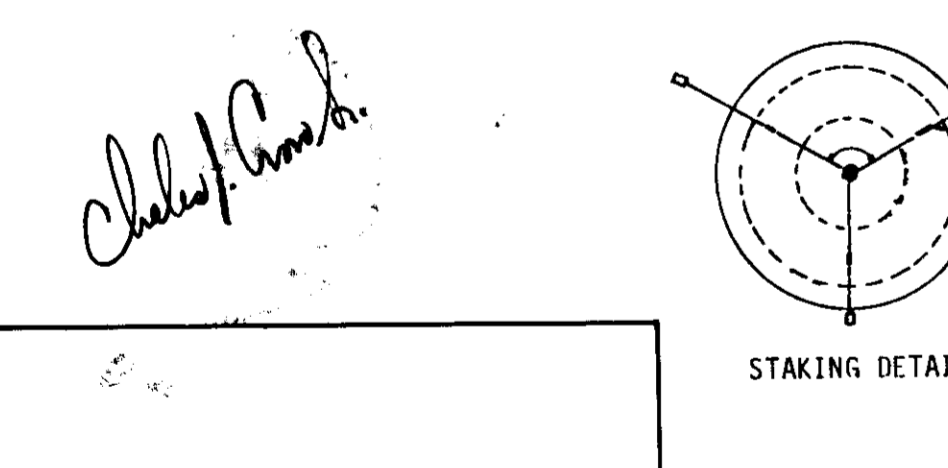
4. Maintenance shall be performed as needed and material removed when bales develop in the silt fence.

POSTS: STEEL EIGHT (8) OR U TYPE OR 2" HEMLOCK

FENCE: 1/4" WIRE, 1/4" GA. GALV. GALV. STEEL DRIP

FILTER CLOTH: FILTER X 200 MICRONS (200) GALV. STEEL LINER (100) OR APPROVED EQUAL

PREFABRICATED UNIT: GEOTEX, ENVIRONMENT, OR APPROVED EQUAL



APPROVED DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION HOWARD COUNTY, MARYLAND DATE 6-20-86

Stake
Wire
Turnbuckle
1"-0" High
2-1/2" Caliper
Min.

Twice Ball Dia.
Note: Remove Burlap from Top 1/3 of Ball

30" Min.

5" Min.

6" Min.

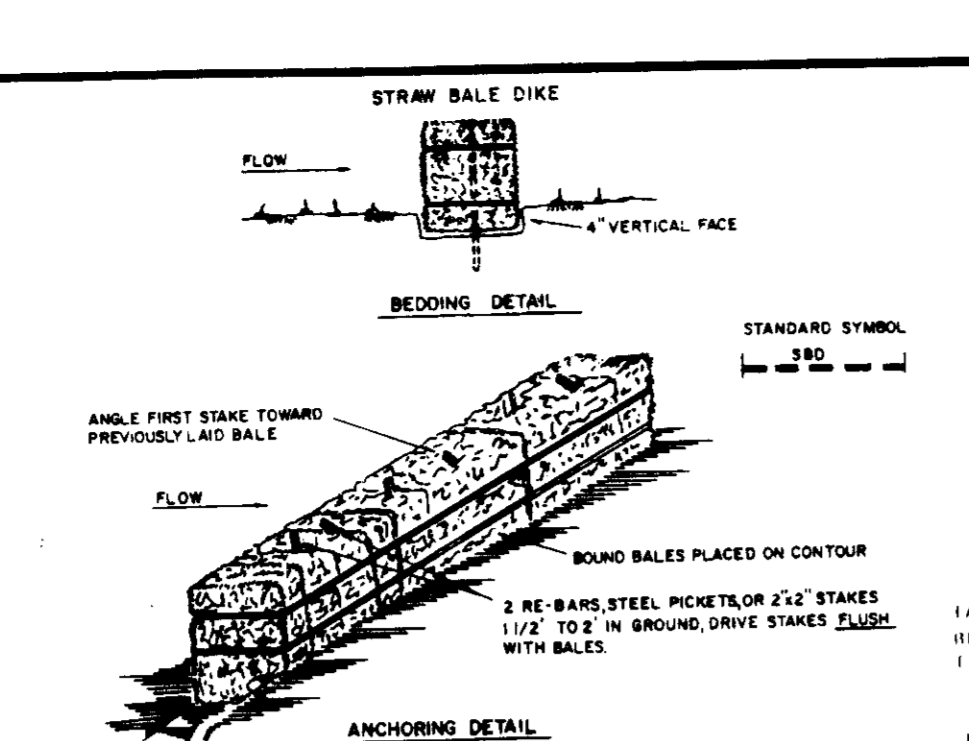
GRADING FOR PLANTING ON SLOPES

TREE PLANTING NOT TO SCALE

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERS & LAND SURVEYORS
8388 COURT AVENUE
ELLCOTT CITY, MARYLAND 21043
(301) 461-2855

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.

DATE 7/10/86
SIGNATURE OF ENGINEER



CONSTRUCTION SPECIFICATIONS

1. Bales shall be placed at the toe of a slope on the contour and in a row with ends tightly abutting the adjacent bales.

2. Each bale shall be embedded in the soil a minimum of (4) inches, and placed so the burlap side is horizontal.

3. Bales shall be securely anchored in place by either two stakes or re-bar driven through the bale. The first stake in each bale shall be driven through the burlap side and the second stake shall be driven through the straw side. Stakes shall be driven flush with the bale.

4. Inspection shall be performed 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.

ANCHORING DETAIL
2 RE-BAR STEEL PICKETS OR 2" STAKES
1 1/2" DIA. IN GROUND, DRIVE STAKES FLUSH WITH BALES

STRAW BALE DIKE NOT TO SCALE

APPLY TO GRADED OR CLEARED AREA NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS REQUIRED.

SEEDING 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 SCHEDULE:

1) PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQUARE FT.) AND 500 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 (22 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 80 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 PER ACRE OF 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 SOO. 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 UNMOTTLED SMALL GREEN 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 FT. 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 RESTORED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

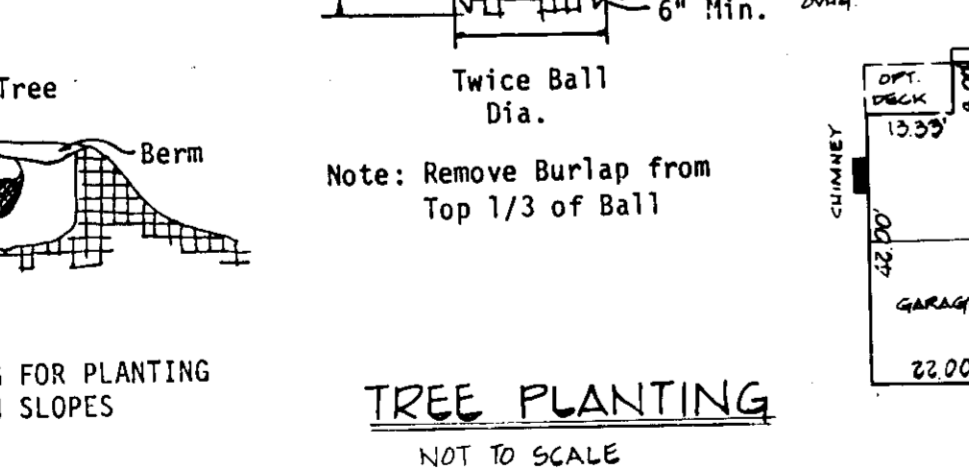
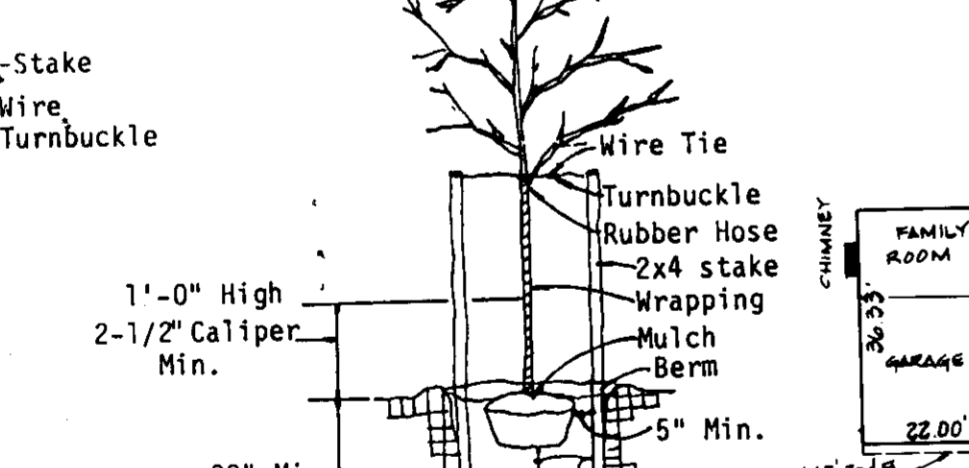
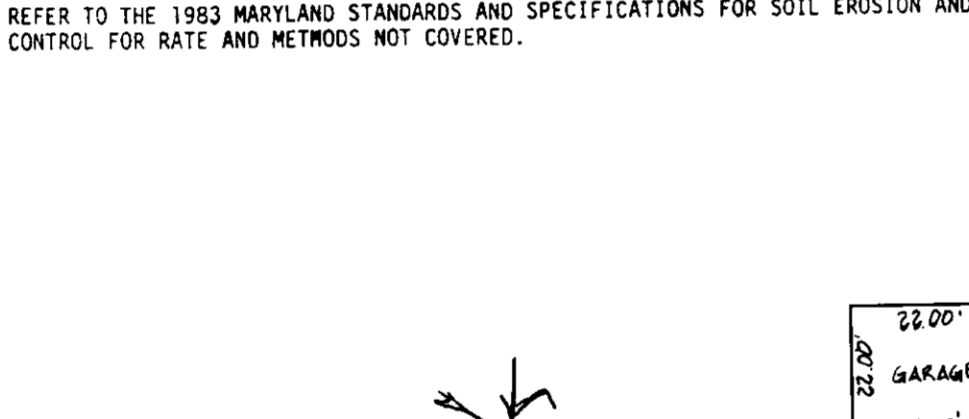
SEEDING PREPARATION: LOOSEN UPPER THREE-INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

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 (1.00 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 SOO.

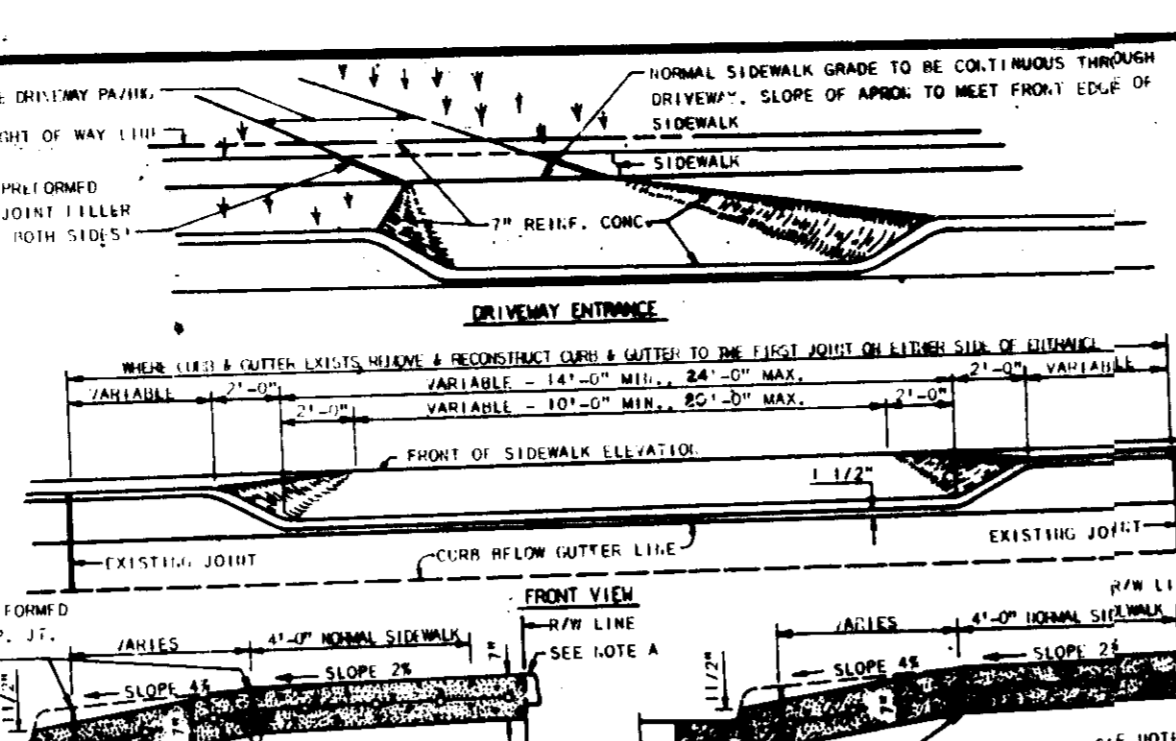
MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ. FT.) OF UNMOTTLED SMALL GREEN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES, 8 FT. OR HIGHER, 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.



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 DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ONSITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

DATE 7/10/1986
SIGNATURE OF DEVELOPER



TYPICAL DRIVEWAY ENTRANCE NOT TO SCALE

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.

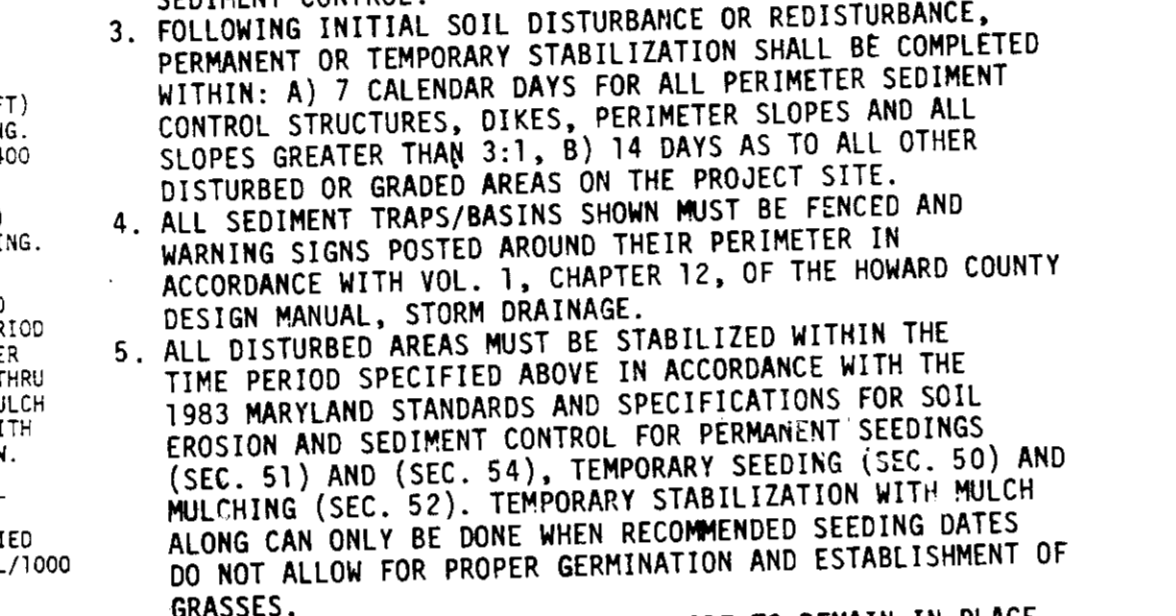
4. ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND ANCHORED WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.

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 ALONG 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 15,702 ACRES
AREA DISTURBED 15,700 ACRES
AREA TO BE ROOFED OR PAVED 15,300 ACRES
AREA TO BE VEGETATIVELY STABILIZED 15,300 CU. YDS.
TOTAL FILL 30,300 CU. YDS.
TOTAL 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.



CURB INLET PROTECTION NOT TO SCALE

1. Attach a continuous piece of wire mesh (30" min. width by throat length plus 4") to the 2" x 4" w/ry (measuring throat length plus 2") as shown on the standard drawing.

2. Place a piece of approved filter cloth (40-85 sieve) of the same dimensions as the wire mesh over the wire mesh and securely attach to the 2" x 4" w/ry.

3. Securely nail the 2" x 4" w/ry to 9" long vertical spacers to be located between the w/ry and inlet face (max. 6' apart).

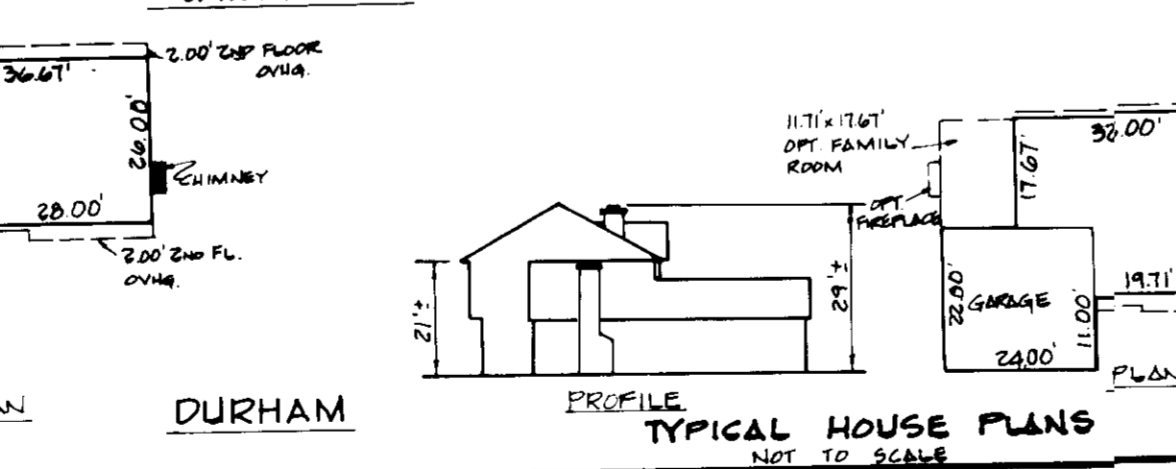
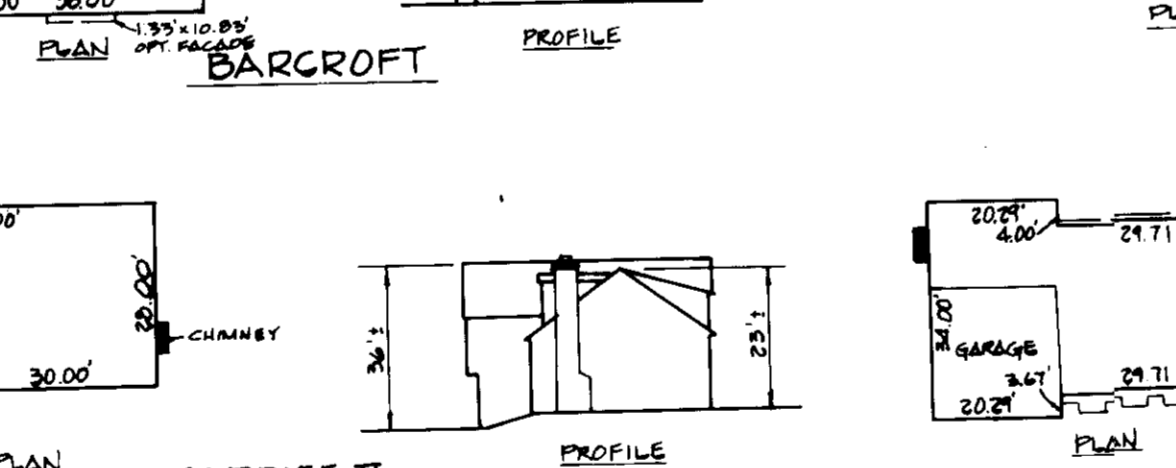
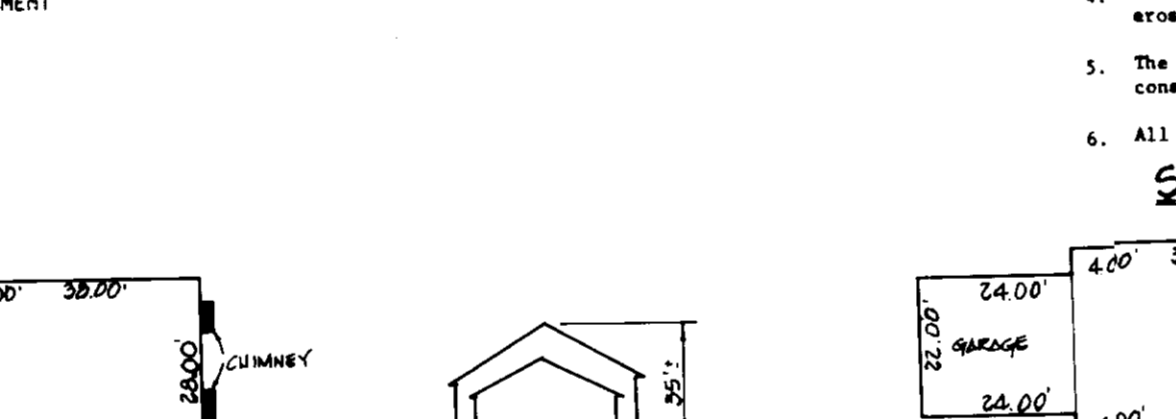
4. Place the assembly against the inlet throat and nail (minimum 2" lengths of 2" x 4" anchors) shall extend across the inlet top and be held in place by sandbags or alternate weight.

5. The assembly shall be placed so that the 2" x 4" w/ry is a minimum 1" beyond both ends of the throat opening.

6. Form the wire mesh and filter cloth to the concrete gutter and against the face of curb on both sides of the inlet.

7. This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.

8. Ensure that storm flow does not bypass inlet by installing temporary earth or asphalt dikes directing flow into inlet.



REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

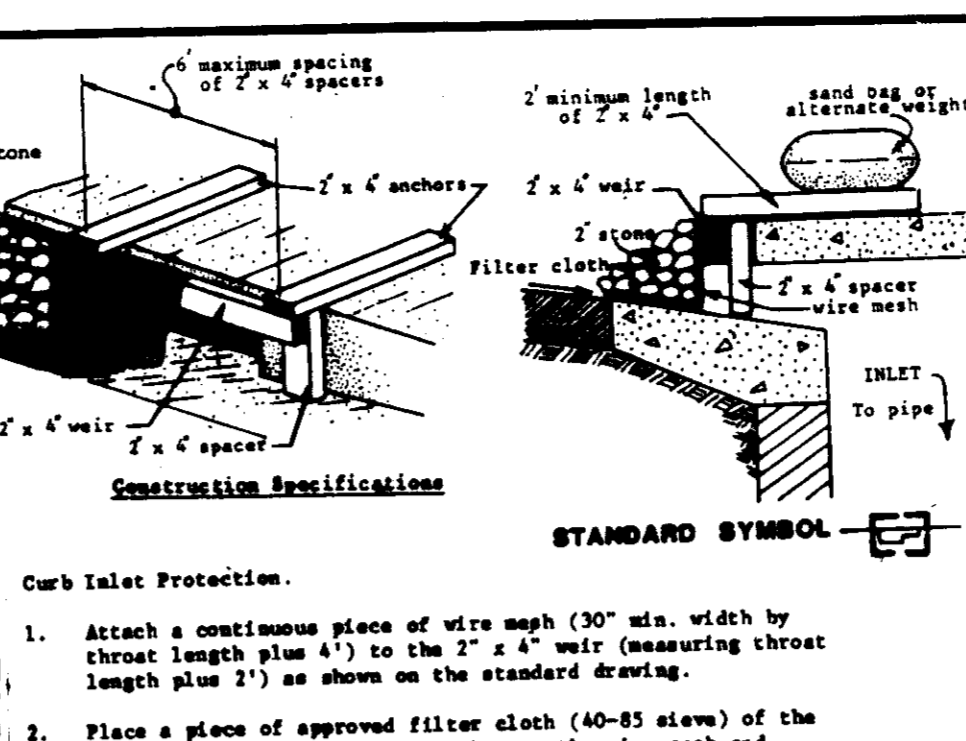
APPROVED: OFFICE OF PLANNING AND ZONING

DATE 7-22-86
SIGNATURE OF PLANNING DIRECTOR

DATE 7-10-86
SIGNATURE OF CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

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

DATE 7-22-86
SIGNATURE OF HEALTH OFFICER



STONE OUTLET SEDIMENT TRAP NOT TO SCALE

1. The area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.

2. The fill material for the embankment shall be free of rocks and other woody vegetation as well as over-sized stones, roots, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed. Maximum height of embankment shall be five (5) feet, measured at centerline of embankment.

3. All fill slopes shall be 2:1 or flatter; out slopes 1:1 or flatter.

4. Elevation of the top of any dike directing water into trap must equal or exceed the height of embankment.

5. Storage area provided shall be figured by computing the volume available behind the outlet channel up to an elevation of one (1) foot below the level weir crest.

6. Filter cloth shall be placed over the bottom and sides of the outlet channel prior to placement of stone. Sections of fabric shall overlap at least one (1) foot with section nearest the entrance placed on top. Fabric shall be embedded at least six (6) inches into adjacent ground at entrance of outlet channel.

7. Stone used in the outlet channel shall be four (4) to eight (8) inches (riprap). To provide a filtering effect, a layer of filter cloth shall be embedded one (1) foot back into the upstream face of the outlet steps or a one (1) foot thick layer of two (2) inch or finer aggregate shall be placed on the upstream face of the outlet.

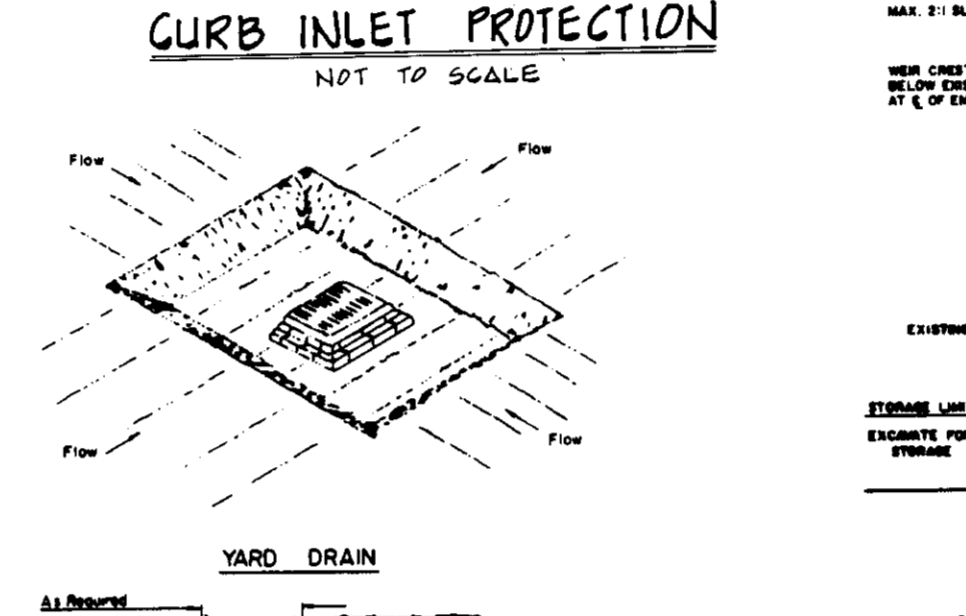
8. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.

9. The structure shall be inspected after each rain and repaired as needed.

10. Construction operations shall be carried out in such a manner that erosion and water pollution are minimized.

11. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

12. Drainage area for this practice is limited to 15 acres or less.



TIMBER RETAINING WALL NOT TO SCALE

MIN. ONE TIE BELOW GRADE

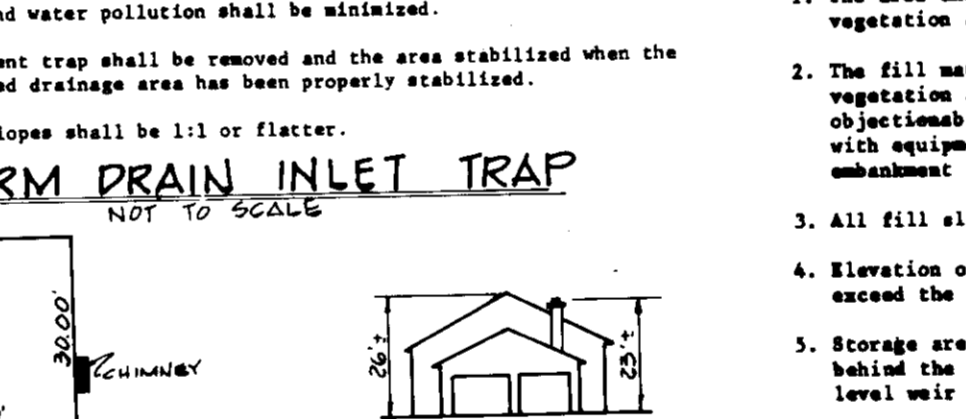
2'-6" MAX.

6" x 6" TREATED TIMBERS (R.R. TIE) TIE TOGETHER WITH #4 REBAR 16" LONG @ 3'-0" OC

6" x 6" x 5' MIN. TIE BACK @ 6'-0" OC

CONSTRUCTED BACKFILL

SPIKES



CONSTRUCTION SPECIFICATIONS FOR ST-VI

1. The area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.

2. The fill material for the embankment shall be free of rocks and other woody vegetation as well as over-sized stones, roots, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed. Maximum height of embankment shall be five (5) feet, measured at centerline of embankment.

3. All fill slopes shall be 2:1 or flatter; out slopes 1:1 or flatter.

4. Elevation of the top of any dike directing water into trap must equal or exceed the height of embankment.

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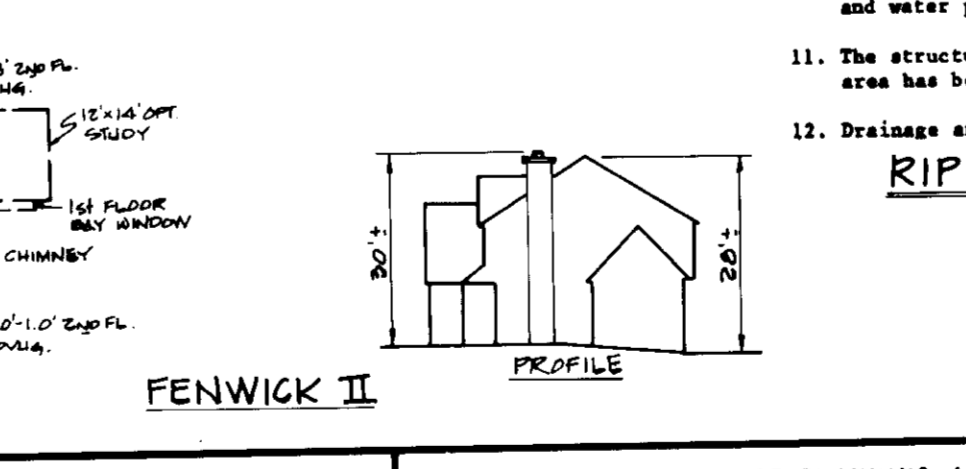
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12. Drainage area for this practice is limited to 15 acres or less.



SITE DEVELOPMENT PLAN ENCHANTED FOREST ESTATES SECTION ONE, AREA ONE LOTS 1-17, 19-33, 35-45 TAX MAP 24 P/O PARCEL 20 2ND ELECTION DISTRICT HOWARD COUNTY, MD. SCALE: 1" = 30' REVISED: JULY 10, 1986 SHEET 4 OF 4

OWNER GREENVIEW #1 JOINT VENTURE
96 GORDON GREENSPAN SUITE 210 COMMERCIAL CENTRE EAST 1777 RESTERTOWN ROAD BALTIMORE, MARYLAND 21008

DEVELOPER WINCHESTER HOMES, INC. P.O. BOX 1000 MILLERSVILLE, MD 21108

APPROVED: DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER & SEWER AND STORM DRAINAGE SYSTEMS AND ROADS

DATE 7-16-86
SIGNATURE OF DIRECTOR, PUBLIC WORKS

APPROVED: BUREAU OF ENGINEERING

DATE 7-16-86
SIGNATURE OF CHIEF, BUREAU OF ENGINEERING

SUBDIVISION ENCHANTED FOREST ESTATES SECTION/AREA 1/1 LOT NOS 1-17, 19-33, 35-45 PLAT NOS 6791-6794 BLOCK NO. 243 TAX/ZONE R-20 ELEC. DIST. 2ND CENSUS TR. 6022 WATER CODE F-14 SEWER CODE 5100000