



STREET TREE SCHEDULE

KEY	PLANT NAME	SIZE	QUANTITY	REMARKS
1	ACER RUBRUM "RED MAPLE"	2-1/2" x 3" CAL.	28	B & B HEAVY HEADS
2	RED SUGAR MAPLE	12-14" HT.		

1. ALL PLANTINGS SHALL BE DONE IN ACCORDANCE WITH COLUMBIA AND PLANTING SPECIFICATIONS.
 2. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO DIGGING.
 3. FINAL LOCATION OF PLANT MATERIAL MAY VARY PER FINAL FIELD CONDITIONS.
 4. SEE PLANTING DETAIL SHEET 2 OF 8.
 5. TREES LOCATED BETWEEN SIDEWALKS & CURB ALONG SLEEPY HORSE LANE SHALL BE PLANTED WITH BIOLOGIC ROOT INHIBITOR BARRIER.
 6. () INDICATES EXISTING STREET TREES TO REMAIN.

- GENERAL NOTES:**
- All construction shall be in accordance with the latest standards and specifications of Howard County standards and specifications.
 - The contractor shall notify the Department of Public Works/Bureau of Construction Inspection at (301) 313-2722 at least five (5) working days prior to the start of work.
 - The contractor shall notify "Miss Utility" at 1-800-257-7777 at least 48 hours prior to any excavation work.
 - Project Background:
 Zoning: New Town, Single Family Attached
 Total Tract Area: 9.32 AC
 Number of Proposed Lots: 58 (56 Buildable Lots)
 Date Preliminary Plan was approved: March 16, 1993
 Approved and DPZ Reference: S/P-92-12, F-83-120, F-93-67 and WP-93-58.
 Design Speed: 30 mph-Sleepy Horse Lane.
 - Information concerning underground utilities was obtained from available records and field survey, but the contractor must determine the exact location and elevation of mains by digging test pits, by hand, at all utility crossings well in advance of construction.
 - All utility companies shall be notified 24 hours in advance of construction.
 - Traffic control devices, markings, and signing shall be in accordance with the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD). All street and regulatory signs shall be in place prior to the placement of any asphalt.
 - Topography and boundary was provided by boundary survey provided by Fisher Collins and Carter, Inc. dated June 5, 1992.
 - Coordinates are based on plat meridian for Village of Hickory Ridge, Section 3 Area 4, Parcels K, L, and M, as recorded on Plat No. 9674.
 - Light poles and fixtures for street lights shall be in accordance with the latest Howard County Design Manual, Volume III, Roads and Bridges.
 - Public water and sewer is to be provided. Contract No. include contract number and drainage area if public.
 - Stormwater Management for this project is provided off-site as per F-83-120.
 - Provide handicap ramps where shown in plan. See details sheet 2, and Howard County Sids. P-4-01 and P-5-15 as in compliance with ADA requirements.
 - Sag and Crest vertical Curves were designed in accordance with Howard County Design Manual Vol. III.
 - Trench compaction for storm drains within the road or street rights of way limits shall be in accordance with Howard County Design Manual, Vol. IV, Sid. No. C-2-01.
 - A traffic study was prepared by the Traffic Group, Inc. dated March 16, 1993.
 - Limits of wetlands were determined by Geo-Technology Associates, Inc., per previously recorded plat 10747.

CURB AND GUTTER LEGEND:

- 7" Sid. Curb and Gutter
- 7" Rev. Curb and Gutter
- 6" Sid. Curb and Gutter
- 6" Rev. Curb and Gutter
- Modified Curb and Gutter

Reviewed for HOWARD S.C.R. Name and meets Technical Requirements
 Signature Date
 US Soil Conservation Service

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

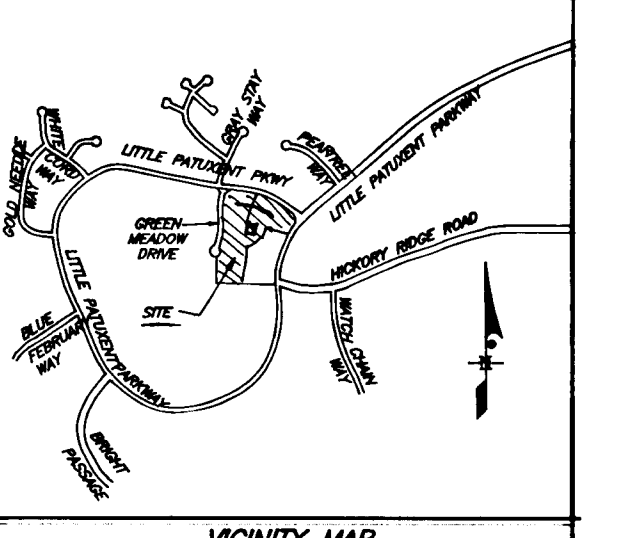
DEVELOPER'S/BUILDER'S CERTIFICATE

I hereby certify that all development and construction will be done according to this plan of development and plan for sediment and erosion control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment 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 to be deemed necessary.

ENGINEER'S CERTIFICATE
 I hereby certify that this plan for Sediment and Erosion 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.

SHEET INDEX

PLAN AND PROFILE SHEET	SHEET NO.
PLAN AND PROFILE SHEET-SLEEPY HORSE LANE AND PRIVATE COURTS A AND B	1
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STORM DRAIN PROFILES AND DETAILS	3
PAVING DETAILS	4
SEDIMENT AND EROSION CONTROL PLAN	5
SEDIMENT AND EROSION CONTROL DETAILS	6



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

[Signature] 7/12/93 DATE
[Signature] 6/30/93 DATE
[Signature] 7/12/93 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

[Signature] 7/13/93 DATE
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

CLARK • FINEFROCK & SACKETT, INC.
 ENGINEERS • PLANNERS • SURVEYORS
 7135 MINSTREL WAY • COLUMBIA, MD 21045 • (301) 381-7500 - BAL TO • (301) 621-8100 - WASH

DESIGNED: K/WM ROAD CONSTRUCTION PLANS FOR SLEEPY HORSE DRIVE, AND PRIVATE COURTS - GREEN SHOOT COURT & BONNET BRIM COURSE

DRAWN: K/WM COLUMBIA

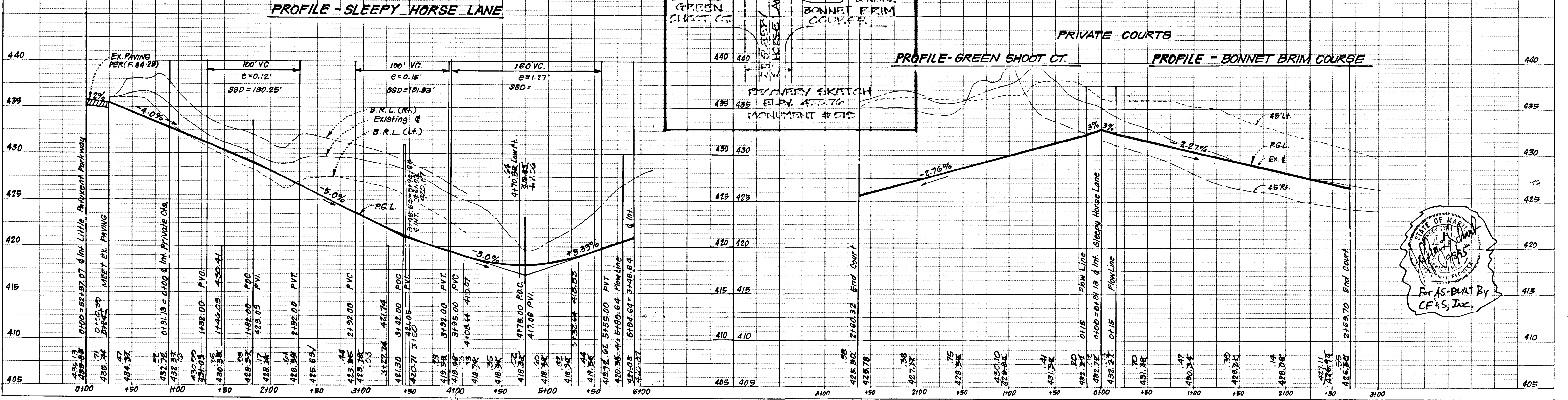
CHECKED: J/S VILLAGE OF HICKORY RIDGE SECTION 3 AREA 4 TAX MAP NO. 35 PARCEL NO. 395 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

DATE: APR. 1998 FOR: COLUMBIA BUILDERS, INC. P.O. BOX 999 COLUMBIA, MD. 21044

SCALE: PLAN SCALE 1"=50' DRAWING 1 OF 6 JOB NO. 92-166 FILE NO. 92-166-D

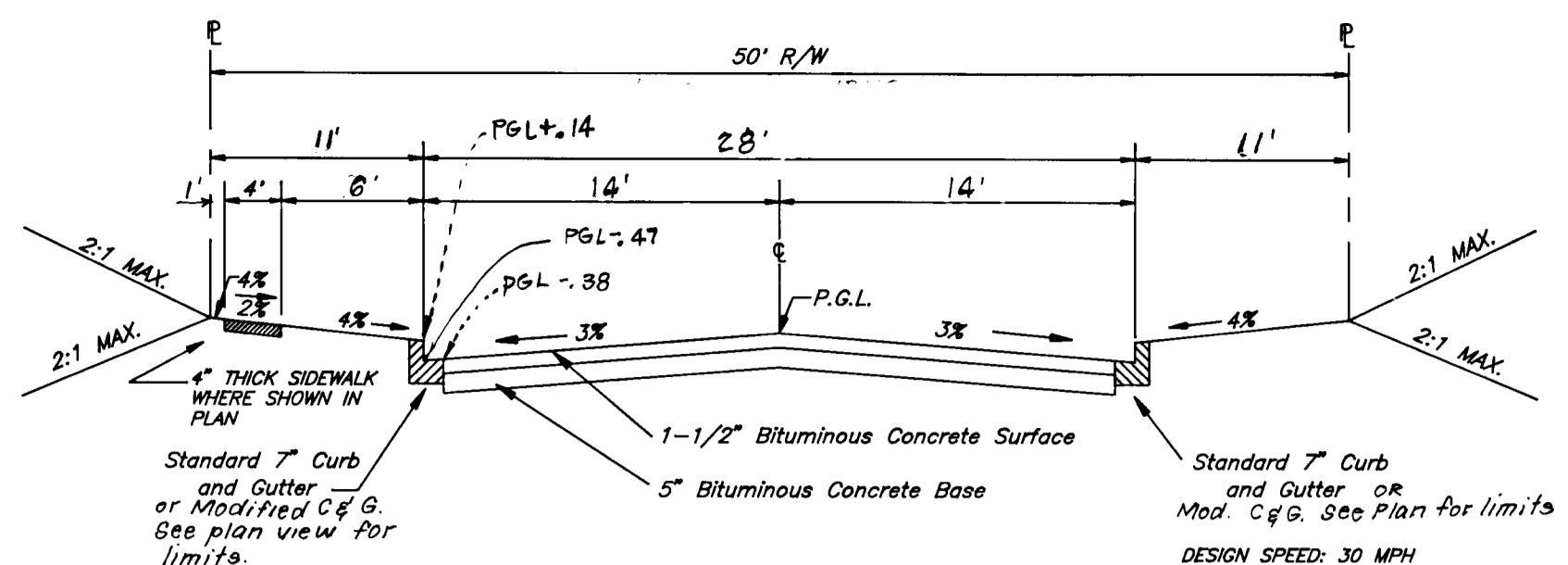
CENTERLINE CURVE DATA

PC TO PT	NAME OF ROAD	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
PC 1+46.09 TO 1+92.13	SLEEPY HORSE LANE	400.00'	46.04'	23.05'	46.01'	S17°07'35"W	06°35'41"
PC 2+92.29 TO 3+27.74	SLEEPY HORSE LANE	242.30'	35.45'	17.78'	35.42'	S16°13'56"W	08°23'01"
PC 0+00 TO 1+33.95	PRIVATE COURT B	533.31'	133.94'	67.33'	133.59'	S69°12'05"E	14°23'25"
PC 2+23.68 TO 2+69.70	PRIVATE COURT B	898.00'	46.03'	23.02'	46.03'	S60°32'14"E	02°56'13"
PC 0+00 TO 0+31.14	PRIVATE COURT A	533.31'	31.15'	15.58'	31.14'	N78°04'03"W	03°20'46"

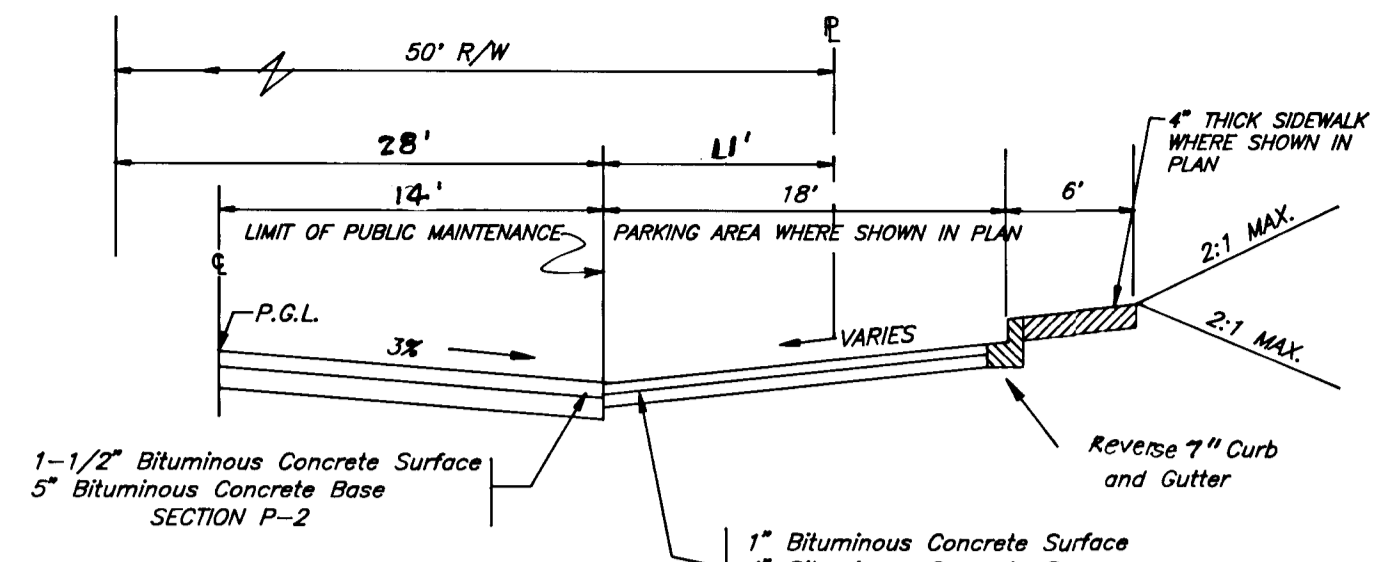


STATE OF MARYLAND
 PROFESSIONAL ENGINEER
 For AS-BUILT By
 CF&S, Inc.

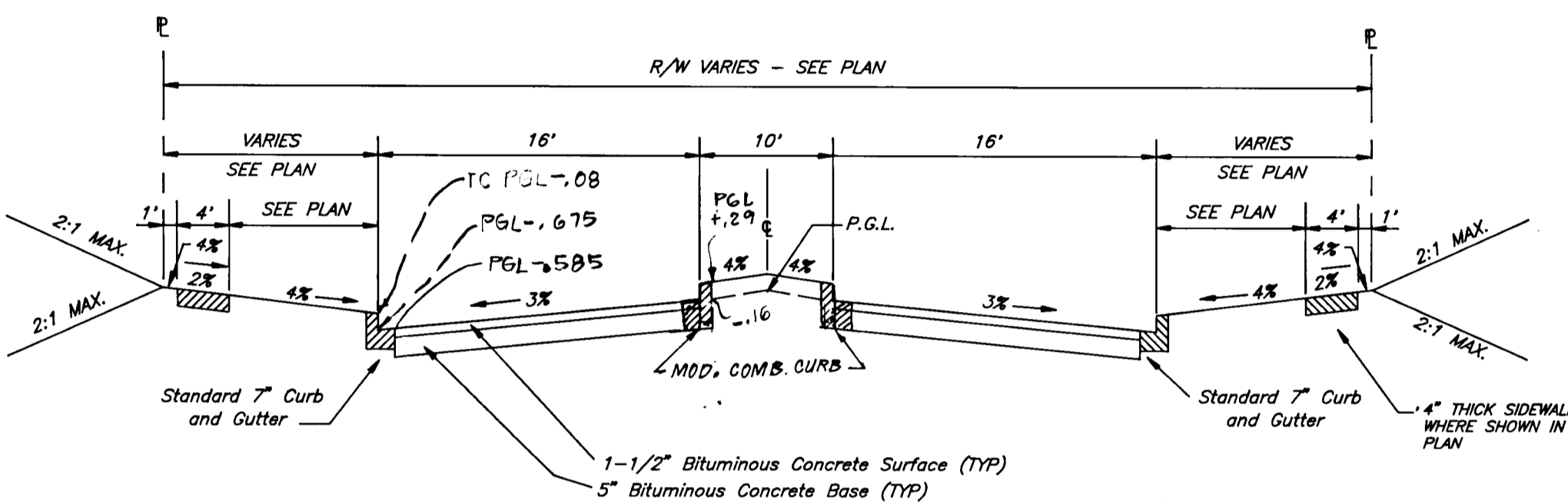
AS-BUILT 9-7-95
 F-93-110
 Sleepy Horse Ln
 92-166-D



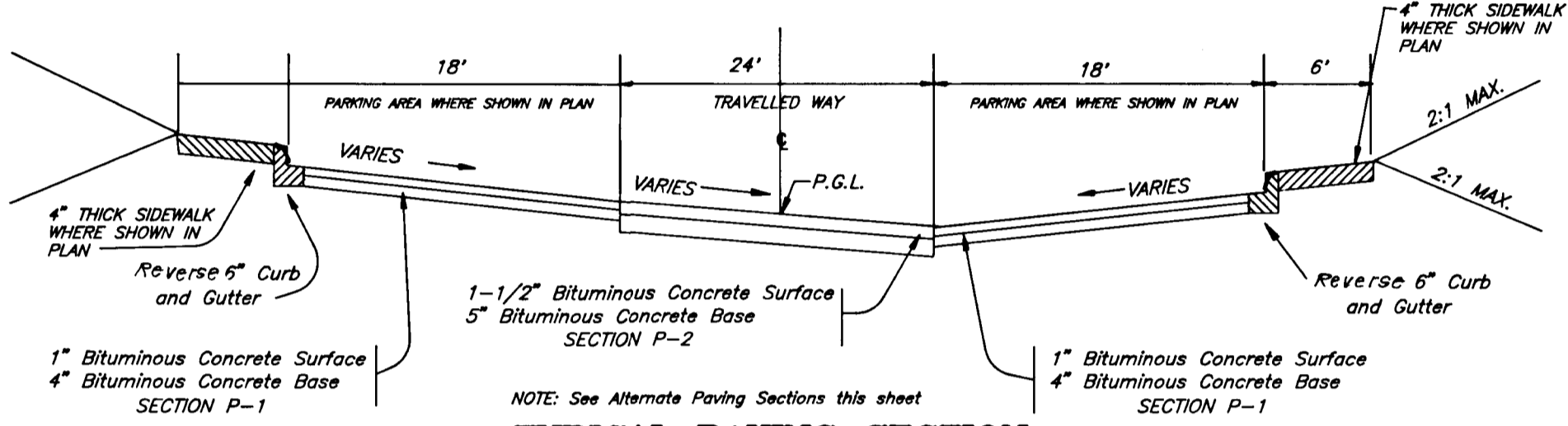
**TYPICAL PAVING SECTION
SLEEPY HORSE LANE**
NO SCALE
STA. 0+91.13 to 4+08.64



**TYPICAL PAVING SECTION
SLEEPY HORSE LANE**
NO SCALE
STA. 4+08.64 to 6+11.20



**TYPICAL PAVING SECTION
SLEEPY HORSE LANE**
NO SCALE
STA. 0+00 to 0+91.13



**TYPICAL PAVING SECTION
PRIVATE COURTS**
NO SCALE
STA. 0+00 to 2+69.70 - GREEN SHOOT CT.
STA. 0+00 to 2+60.32 - BONNET BRIM COURSE

1\"/>

**ALTERNATE PAVING SECTION
FOR PARKING AREAS**
NO SCALE
(SECTION P-1)

1-1/2\"/>

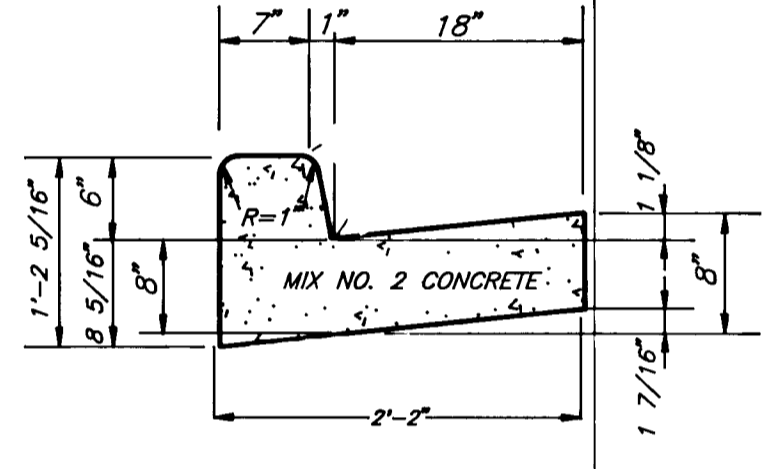
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FOR PUBLIC ROADS**
NO SCALE
(SECTION P-2)

1-1/2\"/>

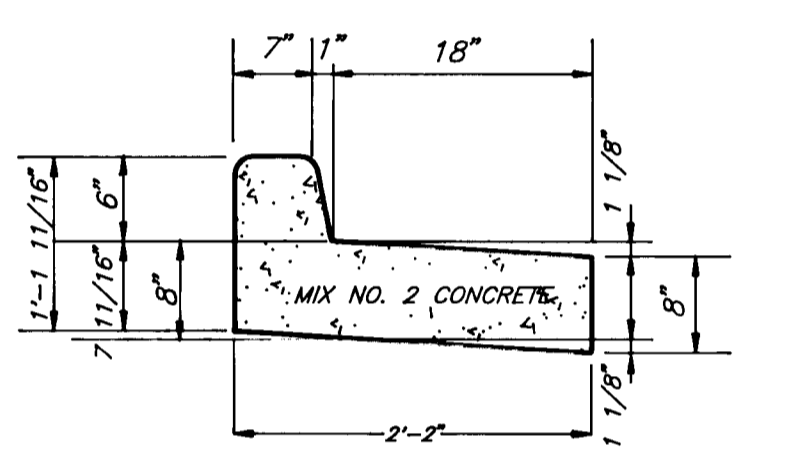
**TYPICAL PAVING SECTION
LITTLE PATUXENT PARKWAY
GREEN MEADOW DRIVE**
NO SCALE
(SECTION P-3)

1-1/2\"/>

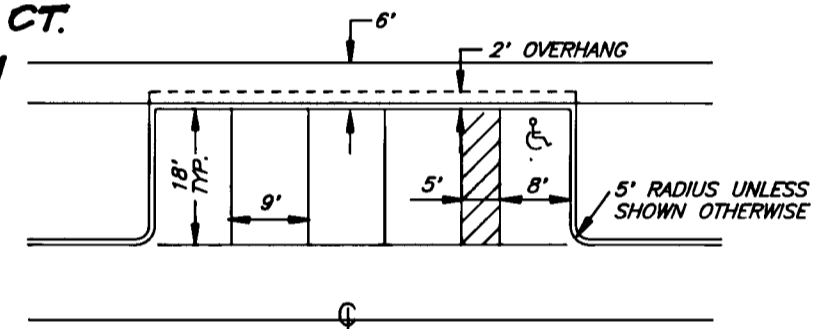
**TYPICAL PAVING SECTION
LITTLE PATUXENT PARKWAY
GREEN MEADOW DRIVE**
NO SCALE
(SECTION P-3)



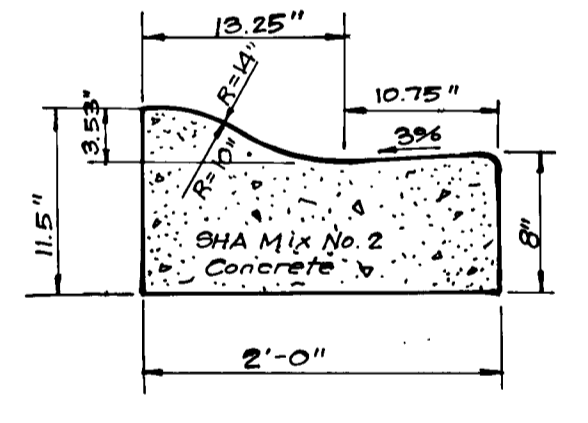
STANDARD 6\"/>



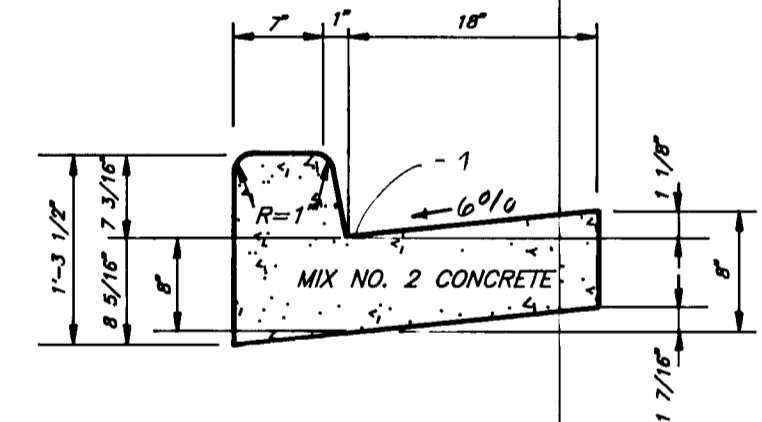
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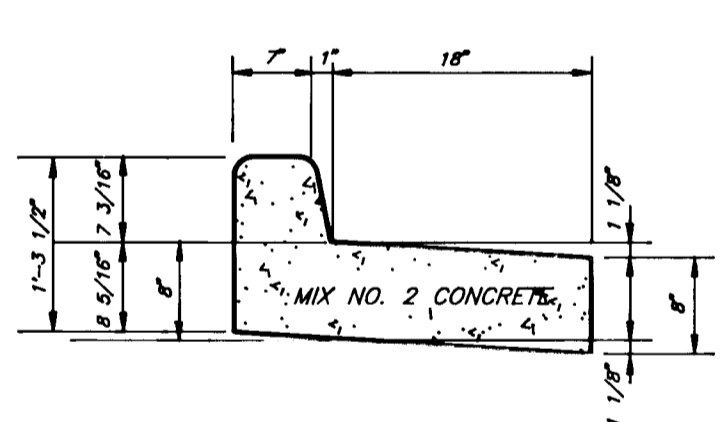
TYPICAL PARKING DETAIL
NO SCALE



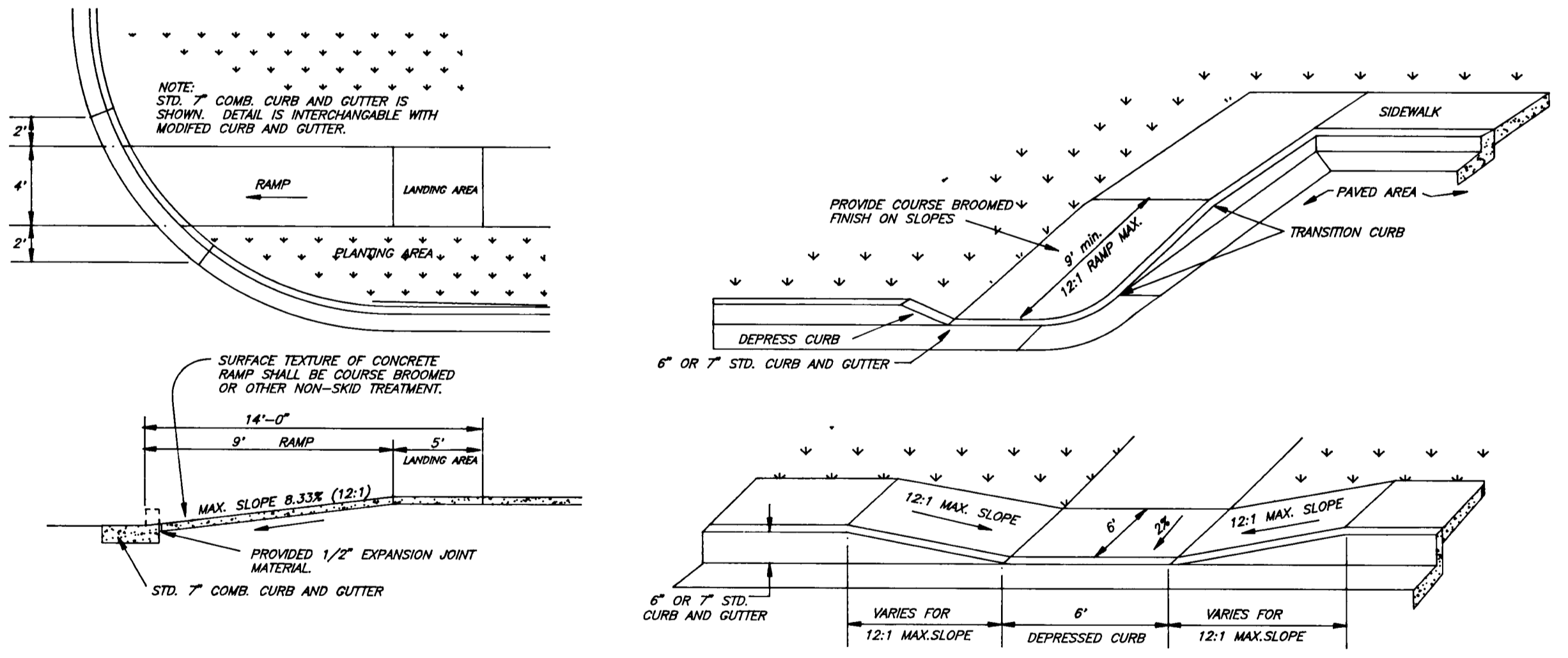
**MODIFIED COMBINATION
CURB AND GUTTER**



STANDARD 7\"/>

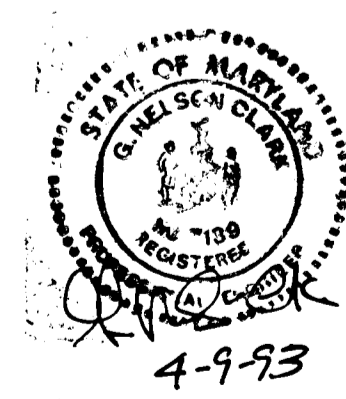


REVERSE 7\"/>



HANDICAP RAMP DETAILS
NO SCALE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 [Signature] 7/12/93
 CHIEF, LAND DEVELOPMENT DIVISION
 [Signature] 6/29/93
 CHIEF, BUREAU OF HIGHWAYS
 [Signature] 7/12/93
 CHIEF, BUREAU OF ENGINEERING
 APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 [Signature] 7/13/93
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT



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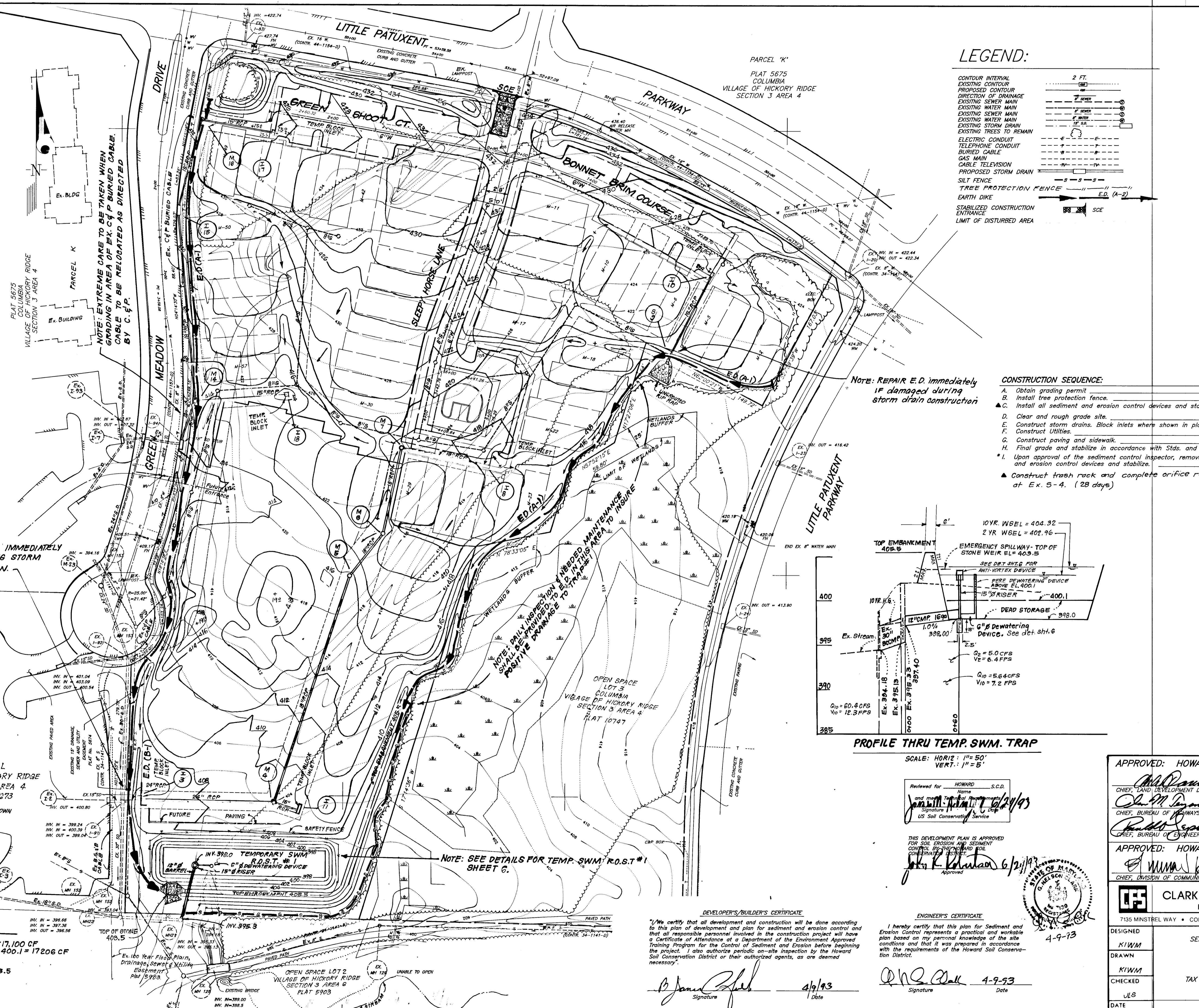
Reviewed for HOWARD S.C.D.
 Name
 and meet technical requirements
 Signature Date 6/24/93
 US Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED
 FOR SOIL EROSION AND SEDIMENT
 CONTROL BY THE HOWARD SOIL
 CONSERVATION DISTRICT.
 Signature Date 6/24/93

DEVELOPER'S/BUILDER'S CERTIFICATE
 I/We certify that all development and construction will be done according
 to this plan of development and plan for sediment and erosion control and
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 necessary.
 Signature Date 6/19/93

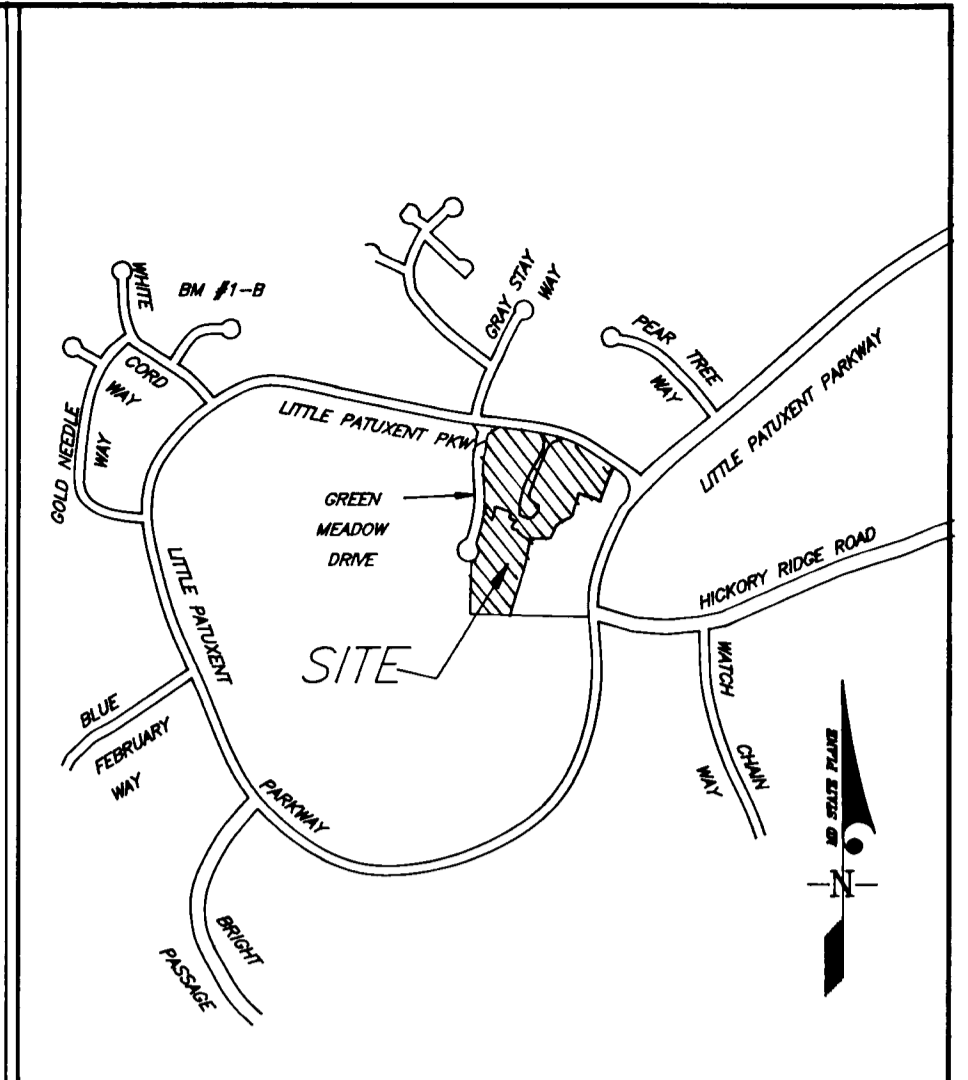
ENGINEER'S CERTIFICATE
 I hereby certify that this plan for Sediment and
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 plan based on my personal knowledge of the site
 conditions and that it was prepared in accordance
 with the requirements of the Howard Soil Conserva-
 tion District.
 Signature Date 4-9-93

DESIGNED	ROAD CONSTRUCTION PLANS FOR STORM DRAIN AND PAVING DETAILS	SCALE	As Shown
DRAWN	COLUMBIA	DRAWING	4 OF 6
CHECKED	VILLAGE OF HICKORY RIDGE SECTION 3 AREA 4 TAX MAP NO. 35 PARCEL NO. 395	JOB NO.	92-166
DATE	5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: COLUMBIA BUILDERS, INC P.O. BOX 939 COLUMBIA, MD. 21044	FILE NO.	92-166-D
Apr. 1993			



LEGEND:

- CONTOUR INTERVAL 2 FT.
- EXISTING CONTOUR
- PROPOSED CONTOUR
- DIRECTION OF DRAINAGE
- EXISTING WATER MAIN
- EXISTING SEWER MAIN
- EXISTING WATER MAIN
- EXISTING STORM DRAIN
- EXISTING TREES TO REMAIN
- ELECTRIC CONDUIT
- TELEPHONE CONDUIT
- BURIED CABLE
- GAS MAIN
- CABLE TELEVISION
- PROPOSED STORM DRAIN
- SILT FENCE
- TREE PROTECTION FENCE
- EARTH DIKE
- STABILIZED CONSTRUCTION ENTRANCE
- LIMIT OF DISTURBED AREA



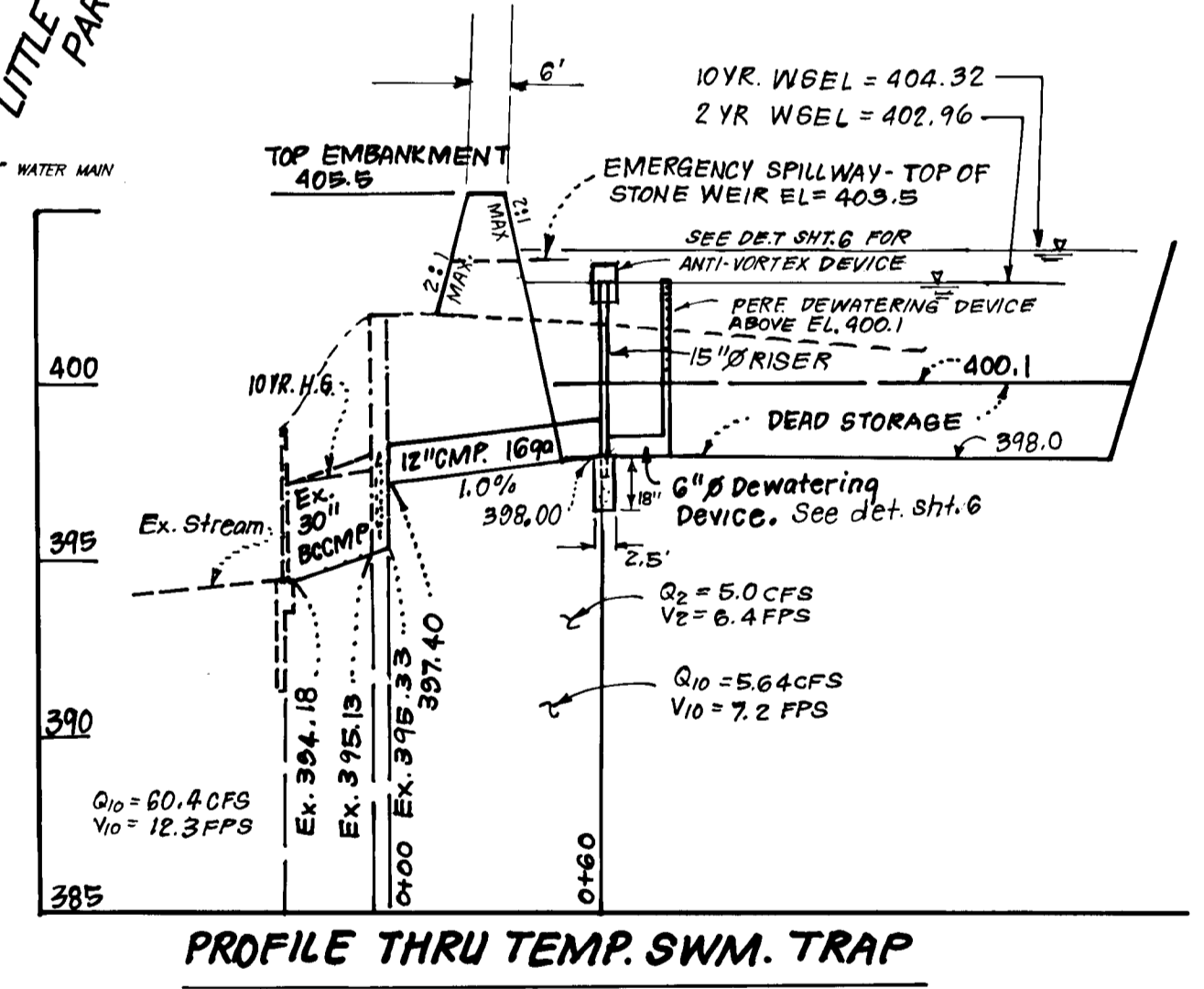
VICINITY MAP
SCALE: 1" = 1000'

CONSTRUCTION SEQUENCE:

	NO. OF DAYS
A. Obtain grading permit	7
B. Install tree protection fence	7
C. Install all sediment and erosion control devices and stabilize	21
D. Clear and rough grade site	21
E. Construct storm drains. Block inlets where shown in plan.	21
F. Construct Utilities	30
G. Construct paving and sidewalk	60
H. Final grade and stabilize in accordance with Stds. and Specs.	14
I. Upon approval of the sediment control inspector, remove sediment and erosion control devices and stabilize.	7
▲ Construct trash rack and complete orifice reconstruction at Ex. S-4. (28 days)	

Note: REPAIR E.D. immediately IF damaged during storm drain construction

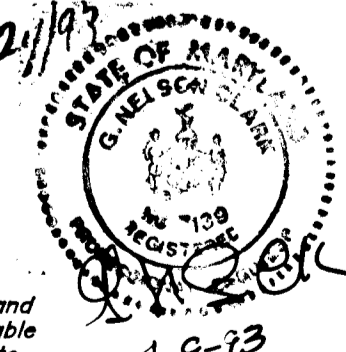
Note: REPAIR E.D. IMMEDIATELY IF DAMAGED DURING STORM DRAIN CONSTRUCTION.



PROFILE THRU TEMP. SWM. TRAP
SCALE: HORIZ: 1" = 50'
VERT: 1" = 5'

Reviewed for HOWARD S.C.D.
Name: *John R. K... 6/21/93*
Signature: *John R. K...*
US Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
John R. K... 6/21/93
Approved



DEVELOPER'S/BUILDER'S CERTIFICATE
I, *John R. K...*, certify that all development and construction will be done according to this plan of development and plan for sediment and erosion control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment 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.
John R. K... 4/9/93
Signature Date

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John R. K... 4-9-93
Signature Date

TEMP. SWM. -ROST#1
D.A. = 9.5 ACRES
STORAGE REQ'D: 9.5(1800) = 17,100 CF
STORAGE PROVIDED: AT EL. 400.1 = 17206 CF
BOTTOM ELEV. = 398.0
CLEAN OUT ELEV. = 399.1
TOP OF STONE WEIR = 403.5
2:1 SIDE SLOPES
NOTE: FOR DETAILS SEE SHEET 6 OF 6.

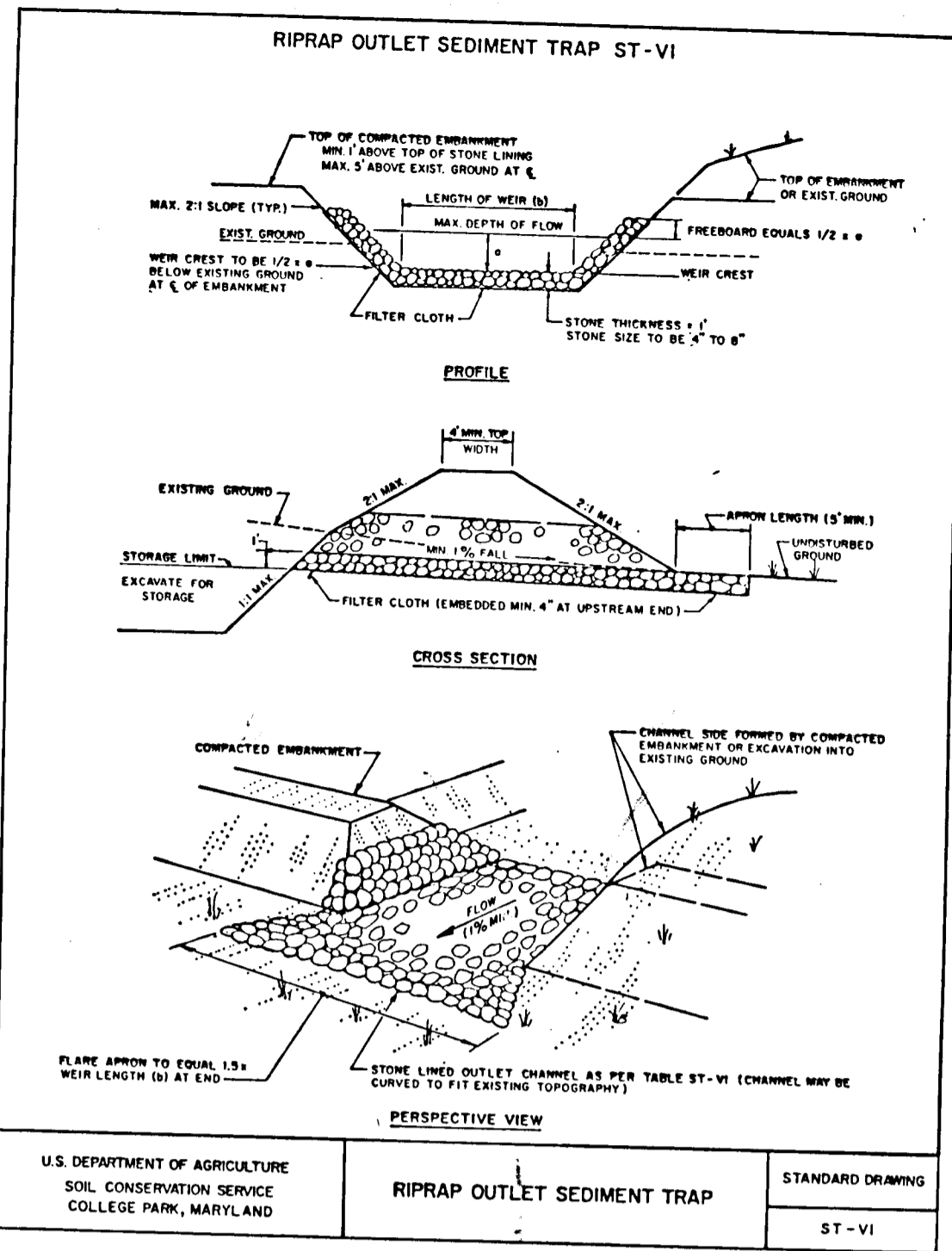
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
John R. K... 7/12/93
CHIEF, LAND DEVELOPMENT DIVISION
John R. K... 6/30/93
CHIEF, BUREAU OF HIGHWAYS
John R. K... 7/12/93
CHIEF, BUREAU OF ENGINEERING

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
John R. K... 7/13/93
CHIEF, DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT

CLARK • FINEFROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS
7135 MINSTREL WAY • COLUMBIA, MD 21045 • (301) 381-7500 - BALTO. • (301) 621-8100 - WASH.

DESIGNED	ROAD CONSTRUCTION PLANS SEDIMENT AND EROSION CONTROL PLAN	SCALE	1"=50'
DRAWN	COLUMBIA	DRAWING	5 OF 6
CHECKED	VILLAGE OF HICKORY RIDGE SECTION 3 AREA 4 TAX MAP NO. 35 PARCEL NO. 395 5TH ELECTION DISTRICT	JOB NO.	92-166
DRAWN	HOWARD COUNTY, MARYLAND	FILE NO.	92-166-D
DATE	FOR: COLUMBIA BUILDERS, INC. PO BOX 999 COLUMBIA MD, 21044		

APR., 1993



U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
COLLEGE PARK, MARYLAND

RIPRAP OUTLET SEDIMENT TRAP

ST-VI

16.13

CONSTRUCTION SPECIFICATIONS FOR ST-VI

- The area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
- The fill material for the embankment shall be free of roots or other woody vegetation as well as oversized stones, rocks, 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.
- All fill slopes shall be 2:1 or flatter; cut slopes 1:1 or flatter.
- Elevation of the top of any dike directing water into trap must equal or exceed the height of embankment.
- 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.
- Filter cloth shall be placed over the bottom and sides of the outlet channel prior to placement of stone. Sections of fabric must overlap at least one (1) foot with section nearest the entrance placed on top. Fabric shall be embedded at least six (6) inches into existing ground at entrance of outlet channel.
- 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 stone or a one (1) foot thick layer of two (2) inch or finer aggregate shall be placed on the upstream face of the outlet.
- 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.
- The structure shall be inspected after each rain and repaired as needed.
- Construction operations shall be carried out in such a manner that erosion and water pollution are minimized.
- The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.
- Drainage area for this practice is limited to 15 acres or less.

STANDARD DRAWING

16.13

CONCENTRIC TRASH RACK AND ANTI-VORTEX DEVICE (not to scale)



Notes:

- The cylinder must be firmly fastened to the top of the riser.
- Support bars are welded to the top of the riser or attached by straps bolted to top of riser.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

CLARK • FINEFROCK & SACKETT, INC.

ENGINEERS • PLANNERS • SURVEYORS

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DESIGNED: KIWM

DRAWN: KIWM

CHECKED: JLS

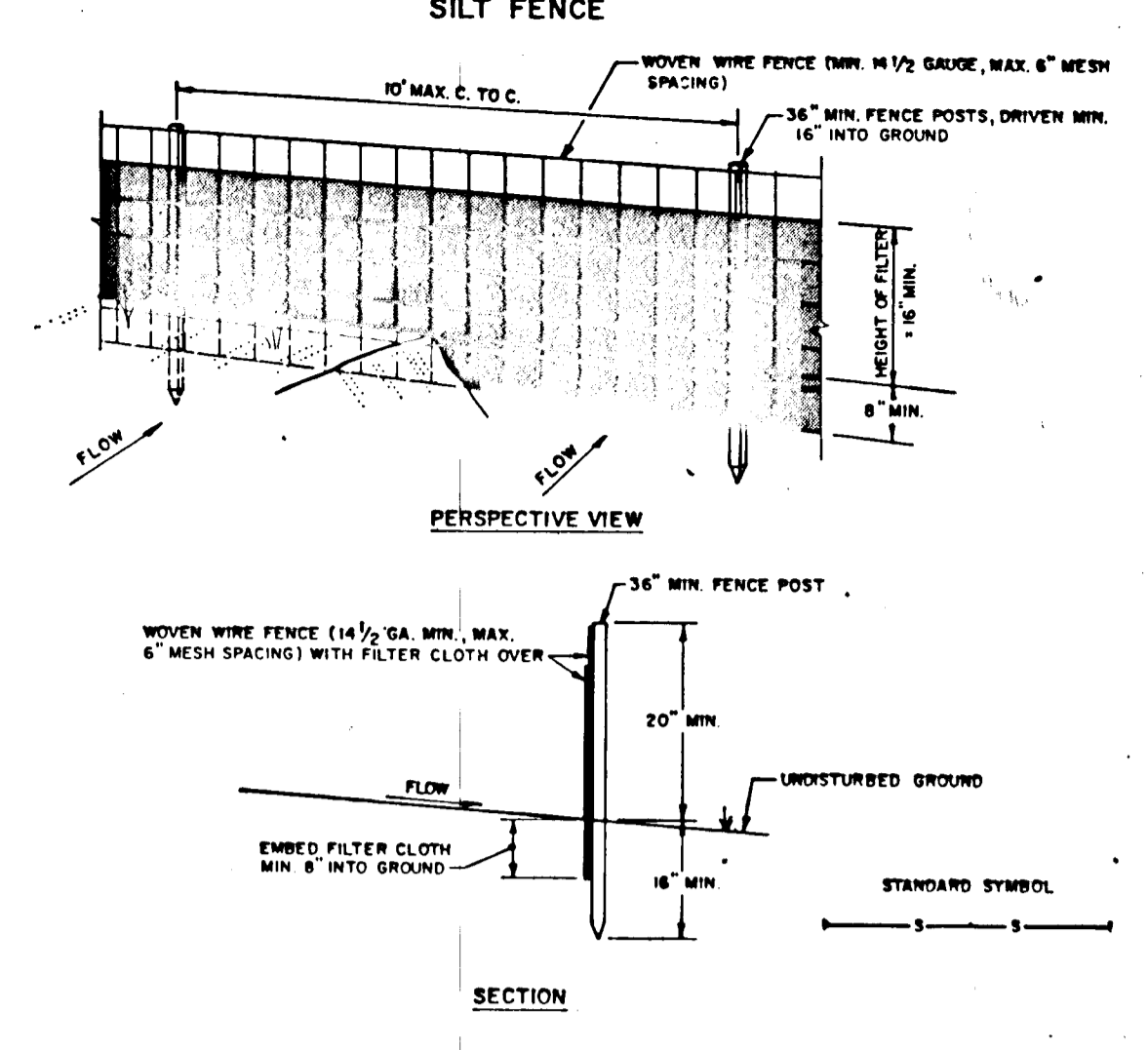
DATE: APR. 1993

SCALE: AS SHOWN

DRAWING: 6 OF 6

JOB NO.: 92-166

FILE NO.: 92-166-D



CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
- FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24\"/>

POSTS: STEEL EITHER T OR U TYPE OR 2\"/>

FENCE: WOVEN WIRE, 14\"/>

FILTER CLOTH: FILTER Y, MIRAFIL 1000, STABILINA 1100, OR APPROVED EQUAL

PREFABRICATED UNIT: GEOPAR, ENVIRONMENT, OR APPROVED EQUAL

MAINTENANCE SHALL BE PERFORMED AS RECOMMENDED BY MANUFACTURER'S LITERATURE.

STANDARD SYMBOL

SOIL CONSERVATION SERVICE

STABILIZED CONSTRUCTION ENTRANCE



CONSTRUCTION SPECIFICATIONS

- Stone size - One (1) to two (2) inches, or reclaimed or recycled concrete equivalent.
- Length - As required, but not less than 50 feet (except on a single residential 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 entrance shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
- 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 spillage or cleanout of any measure used to trap sediment. All sediment, 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 public right-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.

STANDARD DRAWING

16.13

CONCENTRIC TRASH RACK AND ANTI-VORTEX DEVICE (not to scale)



Notes:

- The cylinder must be firmly fastened to the top of the riser.
- Support bars are welded to the top of the riser or attached by straps bolted to top of riser.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

CLARK • FINEFROCK & SACKETT, INC.

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DESIGNED: KIWM

DRAWN: KIWM

CHECKED: JLS

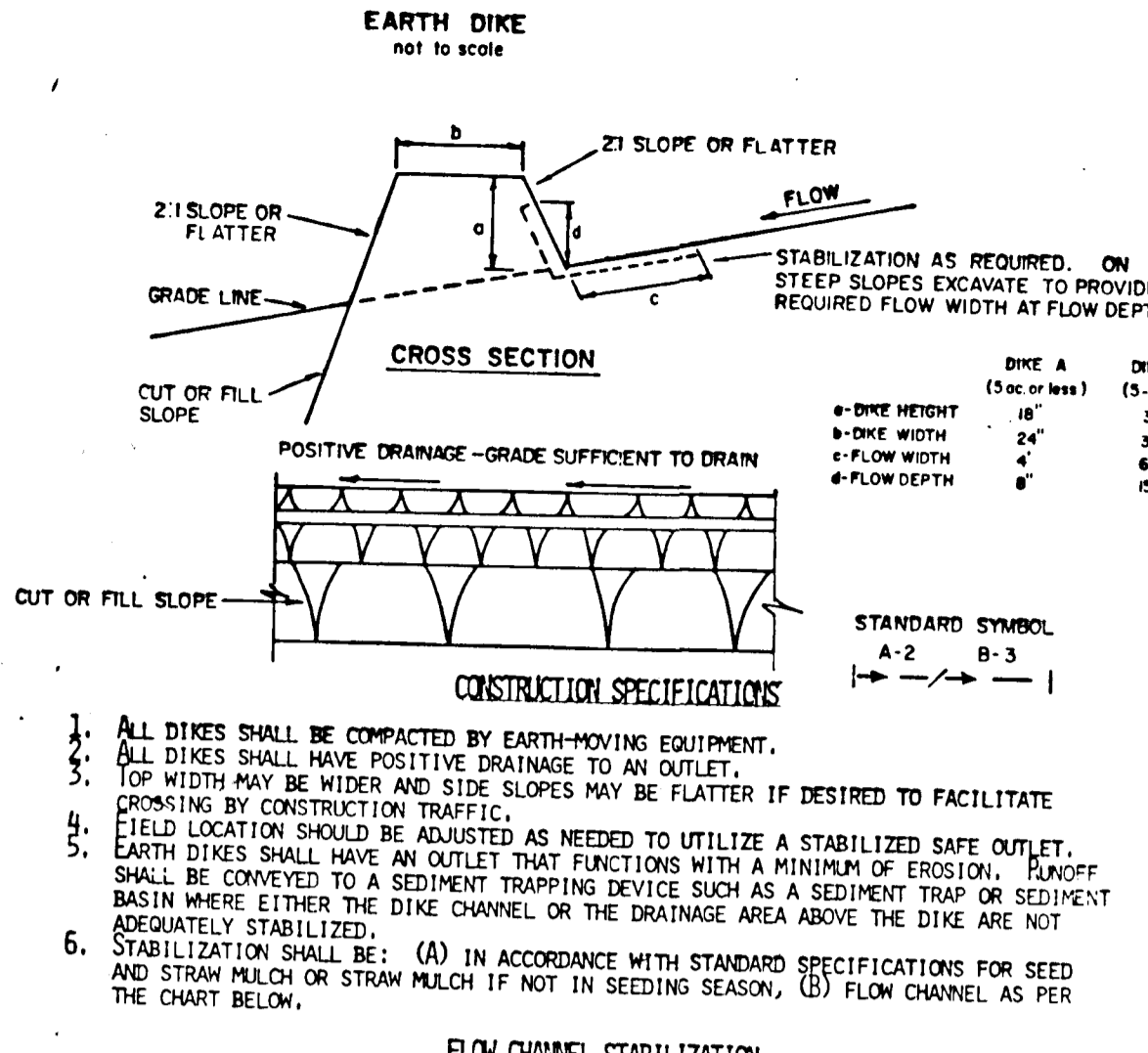
DATE: APR. 1993

SCALE: AS SHOWN

DRAWING: 6 OF 6

JOB NO.: 92-166

FILE NO.: 92-166-D



CONSTRUCTION SPECIFICATIONS

- ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.
- ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
- TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
- FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
- EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. SHEDS SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED.
- STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH OR STRAW MULCH IF NOT IN SEEDING SEASON, (B) FLOW CHANNEL AS PER THE CHART BELOW.

STANDARD SYMBOL

SOIL CONSERVATION SERVICE

STABILIZED CONSTRUCTION ENTRANCE



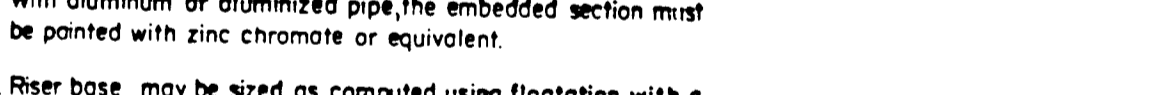
CONSTRUCTION SPECIFICATIONS

- Stone size - One (1) to two (2) inches, or reclaimed or recycled concrete equivalent.
- Length - As required, but not less than 50 feet (except on a single residential 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 entrance shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
- 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 spillage or cleanout of any measure used to trap sediment. All sediment, 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 public right-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.

STANDARD DRAWING

16.13

CONCENTRIC TRASH RACK AND ANTI-VORTEX DEVICE (not to scale)



Notes:

- The cylinder must be firmly fastened to the top of the riser.
- Support bars are welded to the top of the riser or attached by straps bolted to top of riser.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

CLARK • FINEFROCK & SACKETT, INC.

ENGINEERS • PLANNERS • SURVEYORS

7135 MINSTREL WAY • COLUMBIA, MD 21045 • (301) 381-7500 - BALTO. • (301) 621-8100 - WASH.

DESIGNED: KIWM

DRAWN: KIWM

CHECKED: JLS

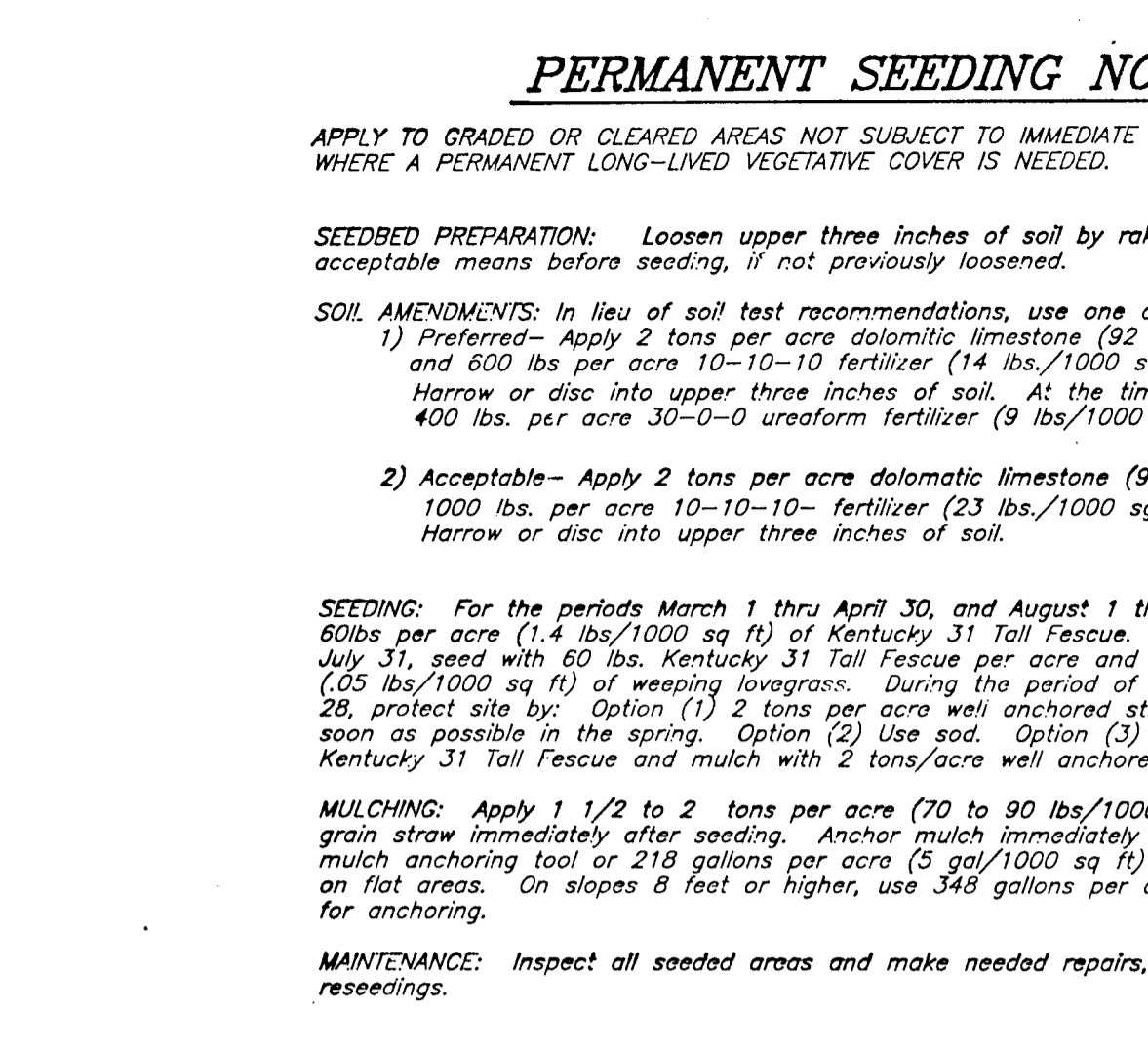
DATE: APR. 1993

SCALE: AS SHOWN

DRAWING: 6 OF 6

JOB NO.: 92-166

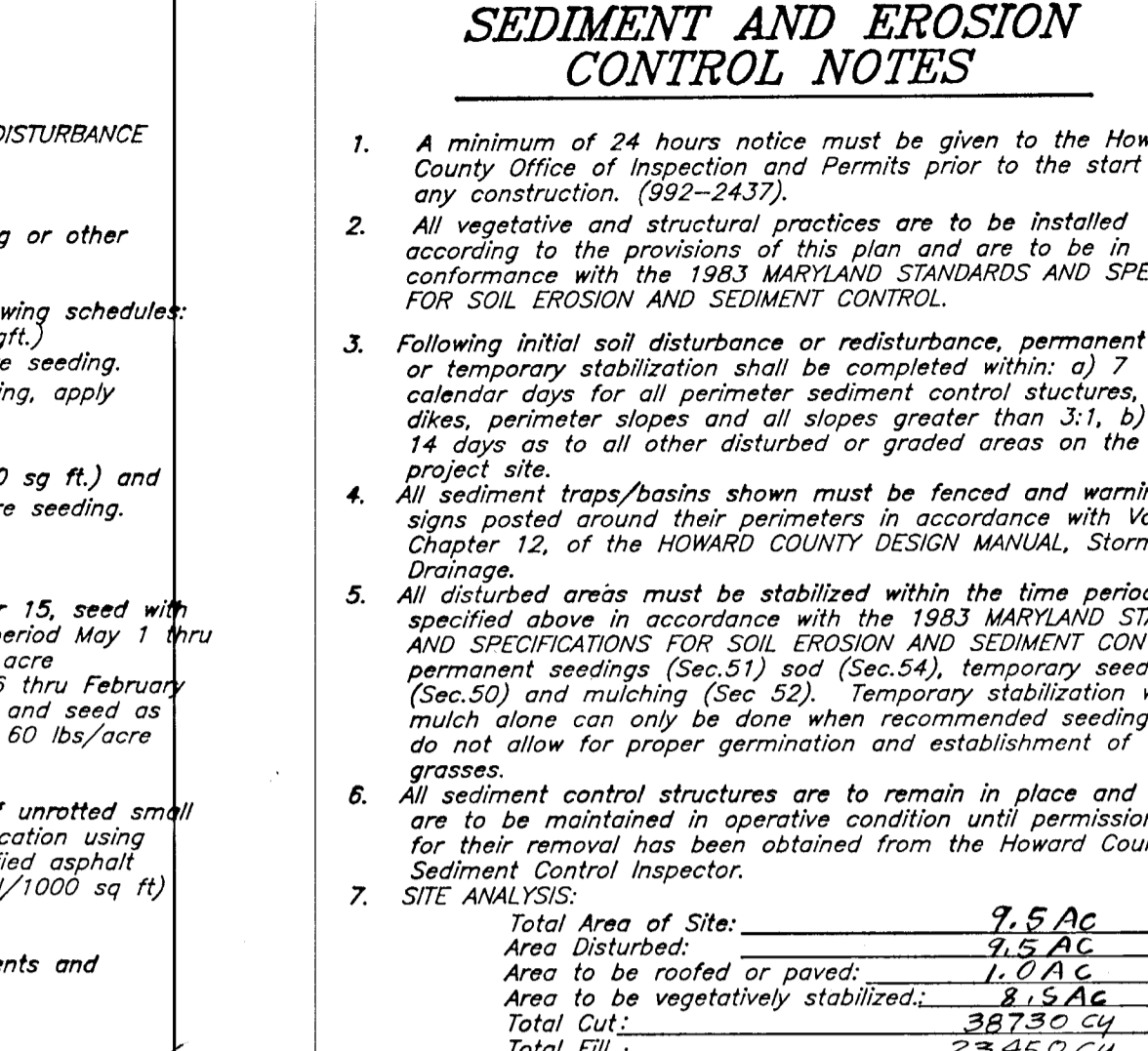
FILE NO.: 92-166-D



TEMPORARY SEEDING NOTES

- SEEDING PREPARATION: Loosen upper three inches of soil by raking, discing, 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 2 1/2 bushel per acre of annual ryegrass (3.2 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 1 lbs per acre of weeping lovegrass (0.7 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 unrattled 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.

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.



SEDIMENT AND EROSION 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 activity.
- 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.
- Following initial soil disturbance or redistribution, 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 for all other disturbed or graded areas on the project site.
- All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with 106.1, 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 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.
- 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:	7.5 AC
Area Disturbed:	2.5 AC
Area to be roofed or paved:	1.0 AC
Area to be vegetatively stabilized:	3.5 AC
Total Cut:	23.50 CU
Total Fill:	23.40 CU
- 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 control must be provided, if deemed necessary by the Howard County DPM Sediment Control Inspector. 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 earthmoving or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is in hand.
- It is the responsibility of the contractor to be constructed on an "as sold" basis, at random, Single Family Sediment Control, as shown below shall be implemented.
- All pipes to be blocked at the end of each day (see detail this sheet).
- The total amount of silt fence - 425 LF

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DESIGNED: KIWM

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DATE: APR. 1993

SCALE: AS SHOWN

DRAWING: 6 OF 6

JOB NO.: 92-166

FILE NO.: 92-166-D

F-93-110 AS SHOWN