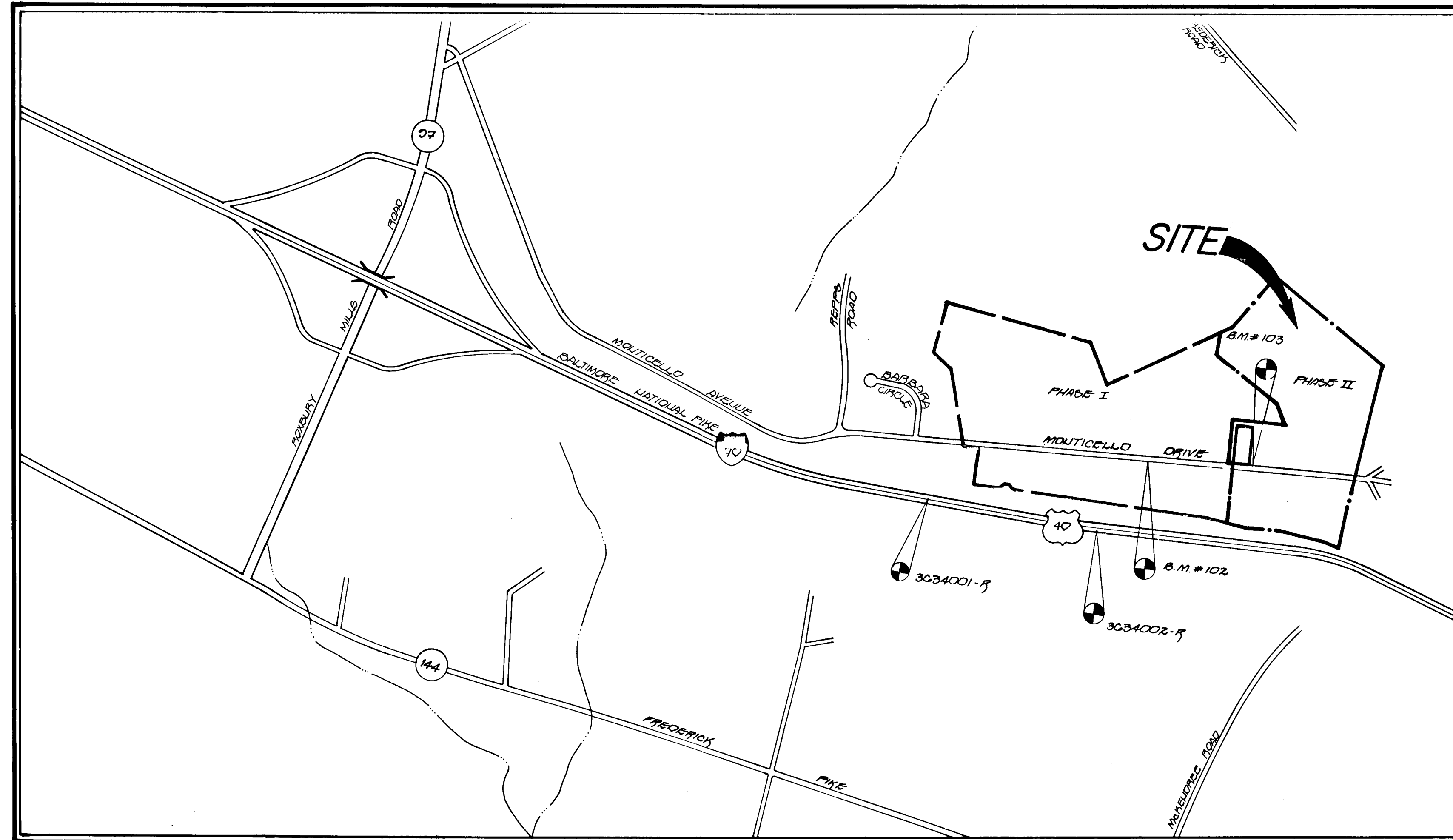


PHASE 2
HARLES MANOR
 LOTS 21-33 (A RESUBDIVISION OF BULK PARCEL "B")
 FOURTH ELECTION DISTRICT
 HOWARD COUNTY MARYLAND

APPROVED: DEPARTMENT OF PUBLIC WORKS
Andrew M. Paulek 8/30/95
 CHIEF, BUREAU OF HIGHWAYS 143 DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Gina Scrimony 9/7/95
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH CAH DATE

John Damm 9/5/95
 CHIEF, DEVELOPMENT ENGINEERING DIVISION AB DATE



VICINITY MAP
 SCALE: 1"=600'

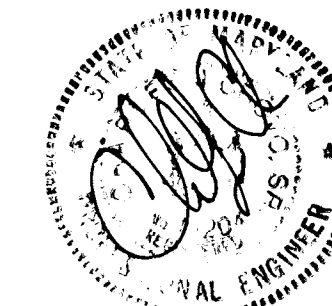
- GENERAL NOTES**
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS M.S.H.A. STANDARDS AND SPECIFICATIONS IF APPLICABLE.
 - THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION INSPECTION DIVISION AT (410) 313-1070 AT LEAST FIVE (5) DAYS PRIOR TO THE 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:
 LOCATION: TAX MAP 9, PARCEL 324 AND PART OF PARCEL 9
 ZONING: RC-DEO
 ELECTION DISTRICT: FOURTH
 TOTAL TRACT AREA: 35.11 AC ±
 NUMBER OF PROPOSED BUILDABLE LOTS: 10
 - 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.
 - FIELD RUN SURVEY PERFORMED ON OR ABOUT JULY 15, 1992 BY FISHER, COLLINS AND CARTER, INC.
 - COORDINATES BASED ON NAD '83, MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATION No. 3634001-R AND 3634002-R
- | | |
|-----------|-----------------------------------|
| 3634001-R | N 602,816.9922
E 1,311,778.966 |
| 3634002-R | N 602,678.5270
E 1,313,084.196 |
- PRIVATE WATER AND PRIVATE SEWER SYSTEMS ARE TO BE UTILIZED FOR THIS SITE.
 - ANY DAMAGE TO ANY PUBLIC RIGHTS-OF-WAY, PAVING OR UTILITIES WILL BE CORRECTED AT CONTRACTOR'S EXPENSE.
 - A FEE-IN-LIEU OF PROVIDING STORM WATER MANAGEMENT FOR THE ROADWAYS WAS APPROVED ON MAY 9, 1994
 - SKETCH PLAN FILE REFERENCE 594-19 WAS APPROVED ON DECEMBER 10, 1993.
 - PRELIMINARY PLAN FILE REFERENCE P94-20 WAS APPROVED ON AUGUST 3, 1994.
 - THE WETLANDS DELINEATION STUDY WAS PREPARED BY: ECO-SCIENCE PROFESSIONALS, INC. ON OCTOBER 25, 1993 AND APPROVED BY HOWARD COUNTY ON DECEMBER 10, 1993.
 - THE TRAFFIC STUDY WAS PREPARED BY STREET TRAFFIC STUDIES, LTD. ON NOVEMBER 8, 1993 AND APPROVED HOWARD COUNTY ON DECEMBER 10, 1993.
 - THIS PROJECT IS IN CONFORMANCE WITH A.D.A. CRITERIA.
 - WETLANDS AREAS
 - NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE WETLAND OR STREAM BUFFERS UNLESS APPROVED BY THE DEPARTMENT OF PLANNING AND ZONING.

BENCH MARKS

BM 102 ELEV. 509.06
 REBAR AND CAP SET FLUSH WITH GROUND
 @ STA. 13+36 MONTICELLO DRIVE 16' RIGHT OF C

BM 103 ELEV. 508.42
 REBAR AND CAP SET FLUSH WITH GROUND
 @ STA. 21+02 MONTICELLO DRIVE 36' LEFT OF C

SHEET INDEX	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	MONTICELLO DRIVE PLAN AND PROFILE
3	STREET TREE, GRADING, AND SEDIMENT CONTROL PLAN
4	TYPICAL ROADWAY SECTIONS, LOTS AND DETAILS
5	DRAINAGE AREA MAP AND STORM DRAIN PROFILES
6	LANDSCAPING PLAN



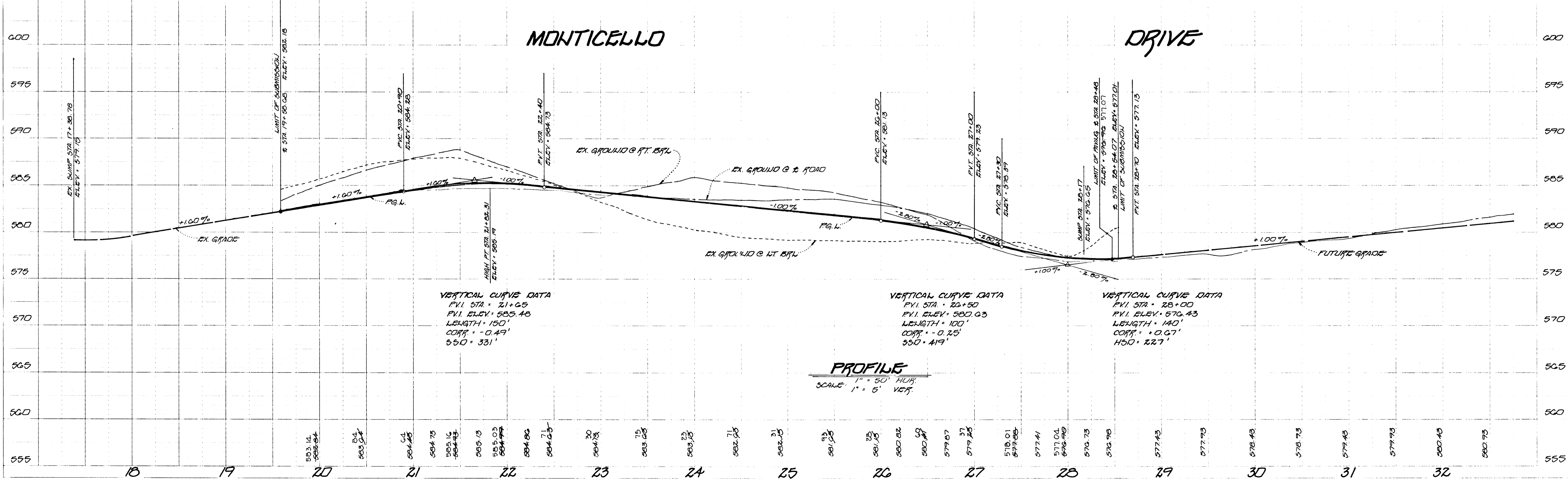
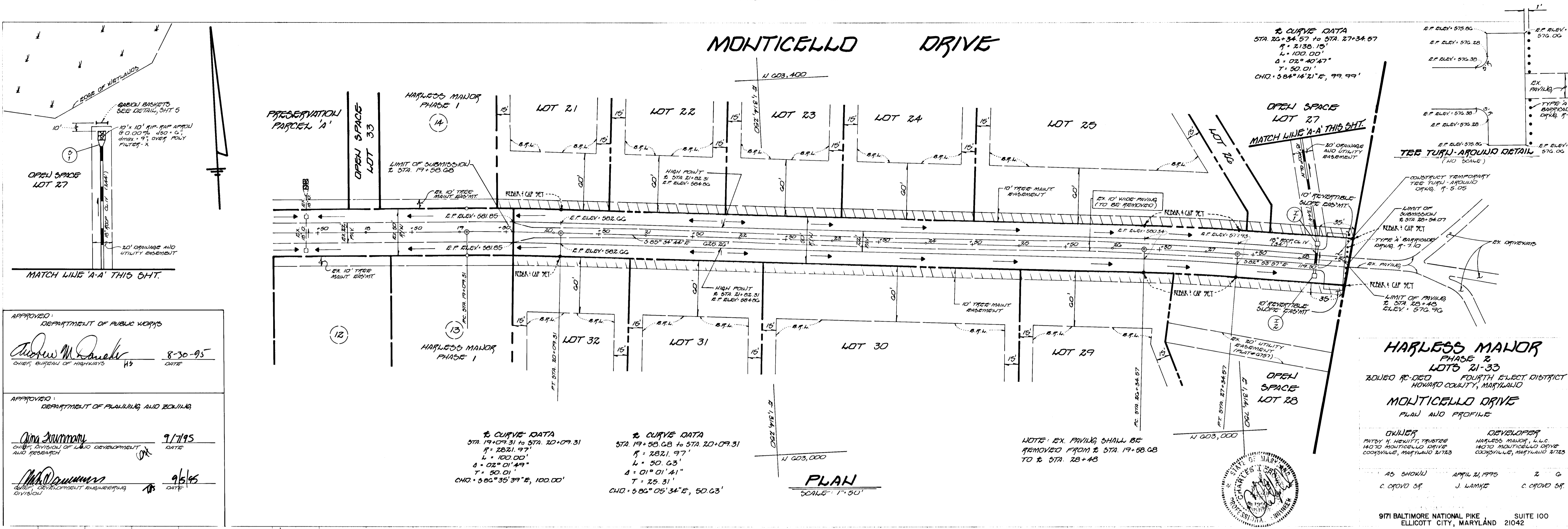
FISHER, COLLINS & CARTER, INC.
 901 BALDWIN NATIONAL PARK, SUITE 100
 ELLICOTT CITY, MARYLAND 21117
 410 461-2855

OWNER
 PATSY K. HEWITT, TRUSTEE
 14070 MONTICELLO DRIVE
 COOKSVILLE, MARYLAND 21723

DEVELOPER
 HARLES MANOR, L.L.C.
 14070 MONTICELLO DRIVE
 COOKSVILLE, MARYLAND 21723

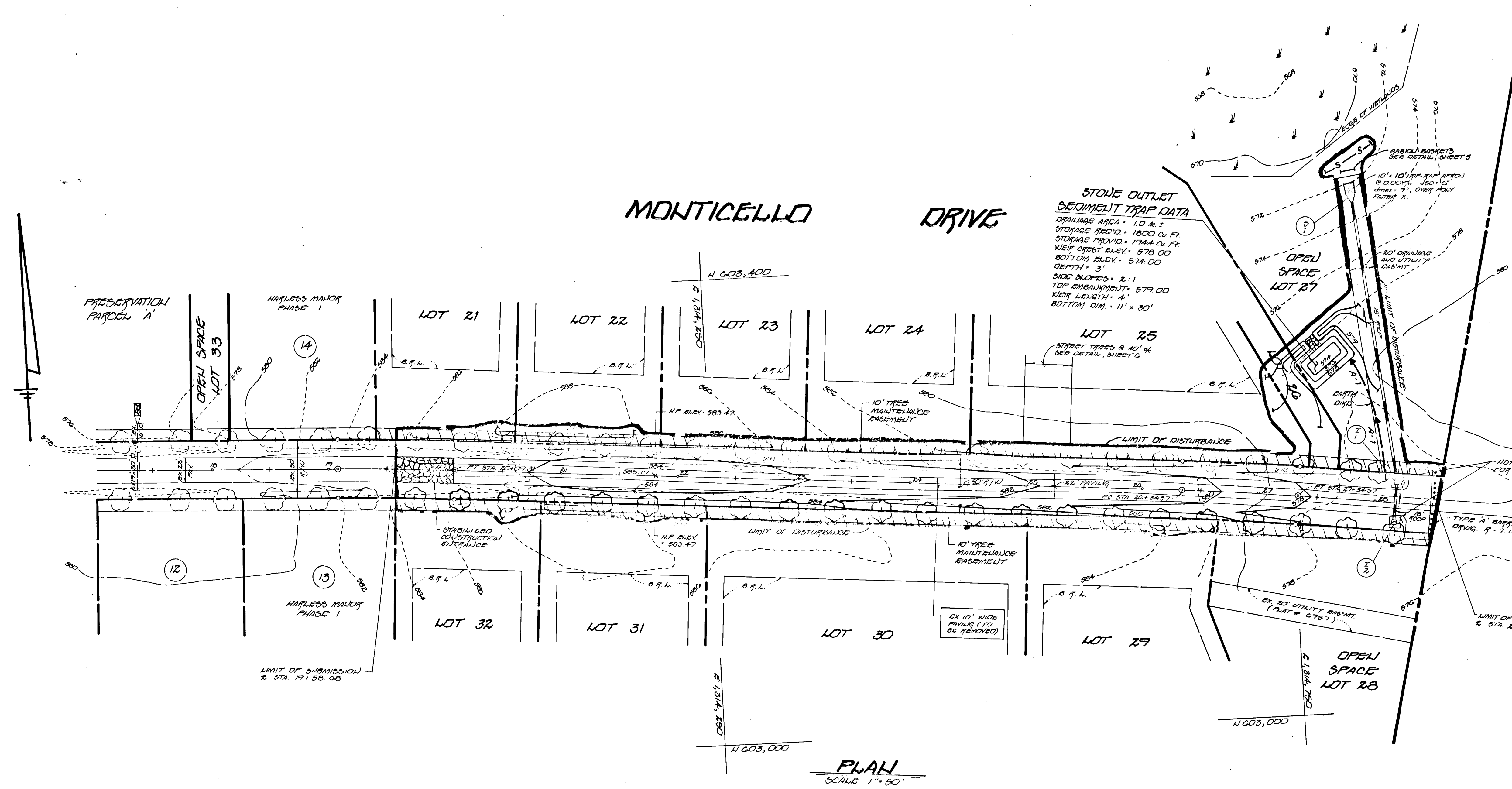
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1733



1733

FISHER, COLLINS & CARTER, INC.
907 BALTIMORE NATIONAL, P.O. BOX 100
ELLSWORTH CITY, MARYLAND 21115
(301) 461-2855



PLAN
SCALE: 1" = 50'

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 CONDITION AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
[Signature] 4/21/95

DEVELOPER'S CERTIFICATE
I HEREBY 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] 4-25-95

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND METS REQUIREMENTS:
[Signature] 8/23/95

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
[Signature] 8/23/95

APPROVED DEPARTMENT OF PLANNING AND ZONING
[Signature] 9/1/95

CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING

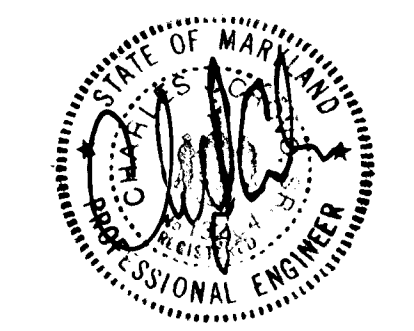
[Signature] 9/5/95

CHIEF, DEVELOPMENT REGULATIONS DIVISION

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[Signature] 8/30/95

CHIEF, BUREAU OF HIGHWAYS

STREET TREE, GRADING AND
SEDIMENT CONTROL PLAN
HARLESS MANOR
PHASE 2 LOTS 21-33
ZONED RC-DEO FOURTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN
APRIL 21, 1995
SHEET 3 OF 4



OWNER
PATRY M. HENRITT, TRUSTEE
14070 MONTICELLO DRIVE
COOKSVILLE, MARYLAND 21723

DEVELOPER
HARLESS MANOR, L.L.C.
14070 MONTICELLO DRIVE
COOKSVILLE, MARYLAND 21723

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 CONDITION AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY CONSERVATION DISTRICT.

DATE: 4/27/95
 SIGNATURE: [Signature]

DEVELOPER'S CERTIFICATE
 I HEREBY 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 COUNTY CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

DATE: 4-25-95
 SIGNATURE: [Signature]

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
 DATE: 4/23/95
 SIGNATURE: [Signature]

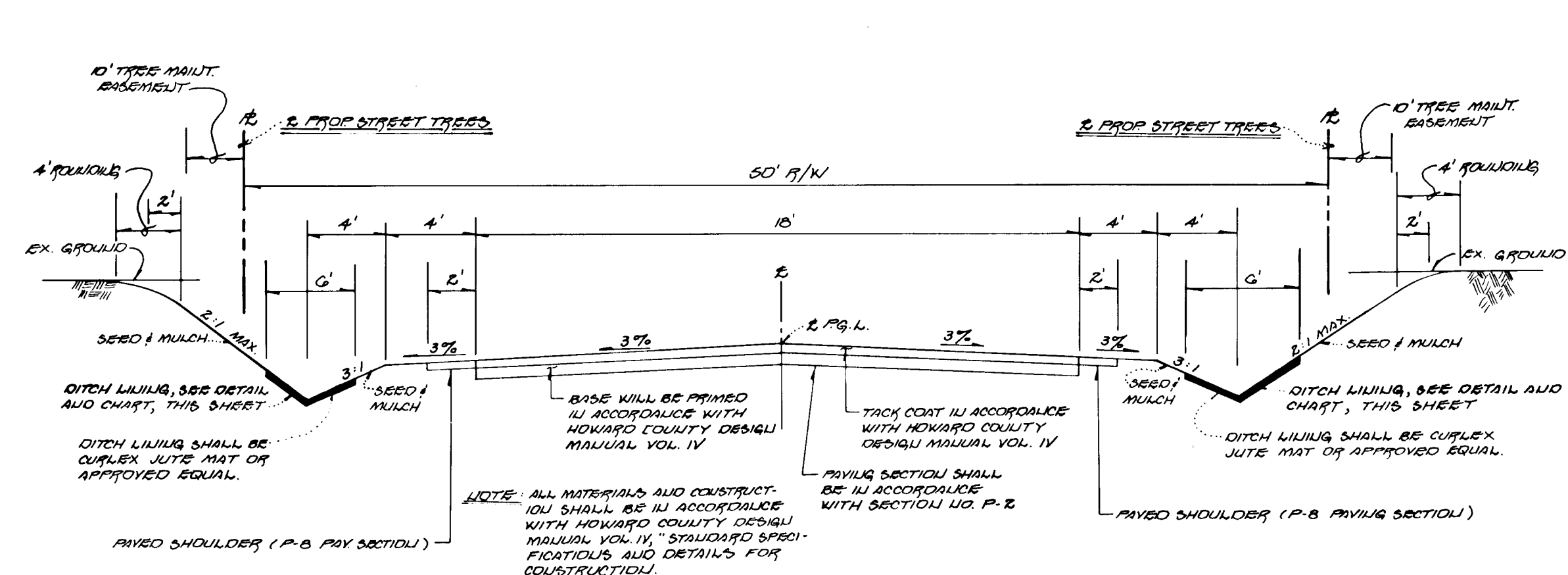
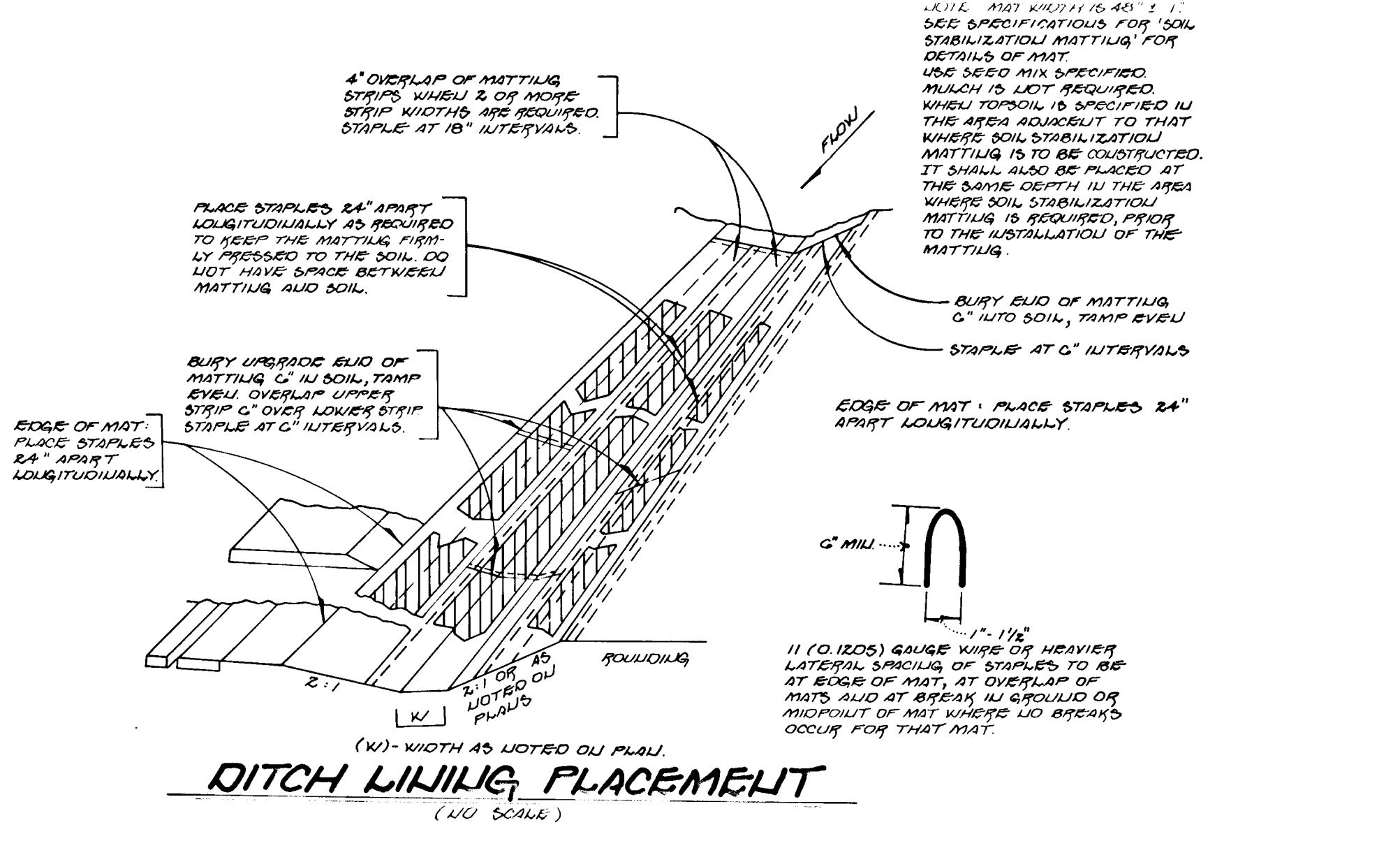
APPROVED: [Signature]
 DATE: 4/23/95

APPROVED DEPARTMENT OF PLANNING AND ZONING
 DATE: 4/17/95
 SIGNATURE: [Signature]

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DATE: 4/5/95
 SIGNATURE: [Signature]

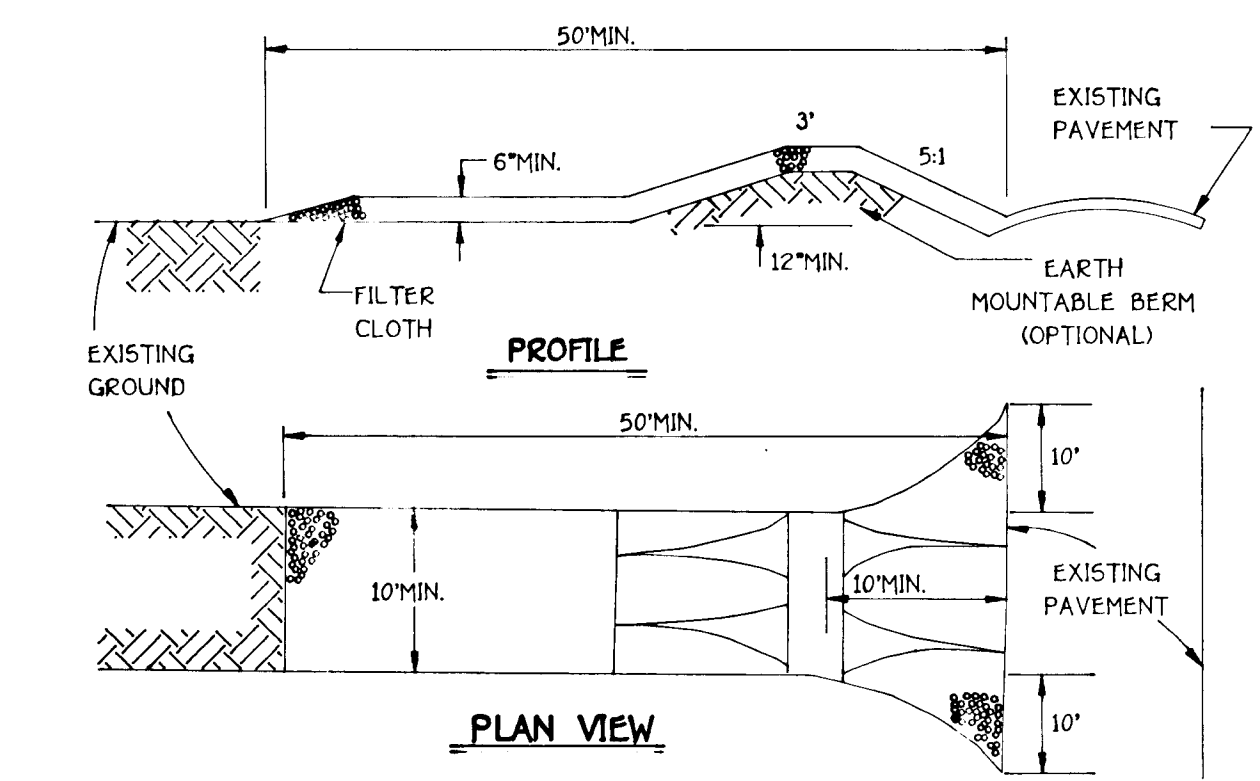
DITCH LIVING CHART

ROAD	FROM	TO	LOCATION	WIDTH
MOUTICELLO DRIVE	20+50	20+00	LEFT OF R.	6'
MOUTICELLO DRIVE	20+25	20+00	RIGHT OF R.	6'

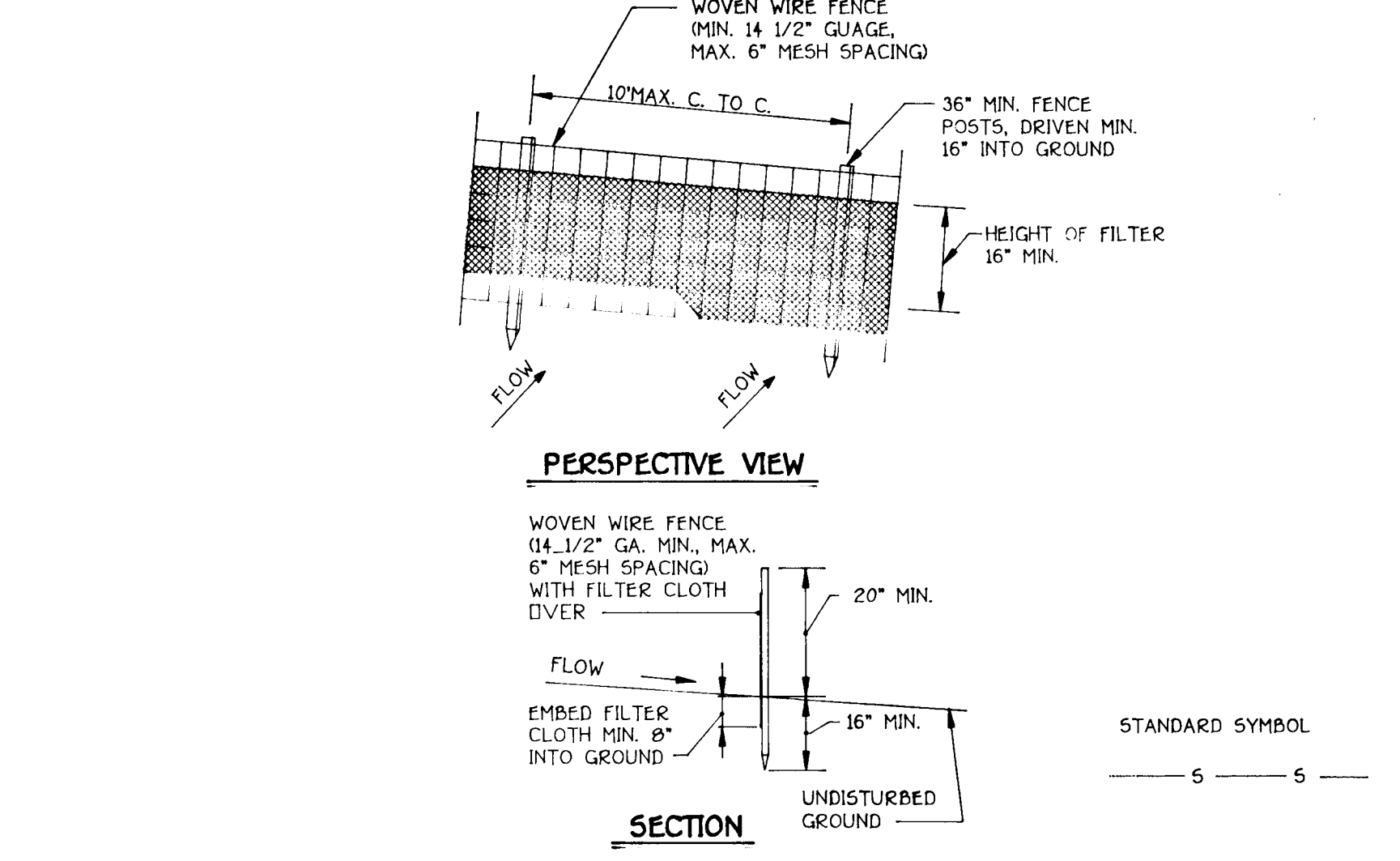


TYPICAL ROADWAY SECTION
(1/4\"/>

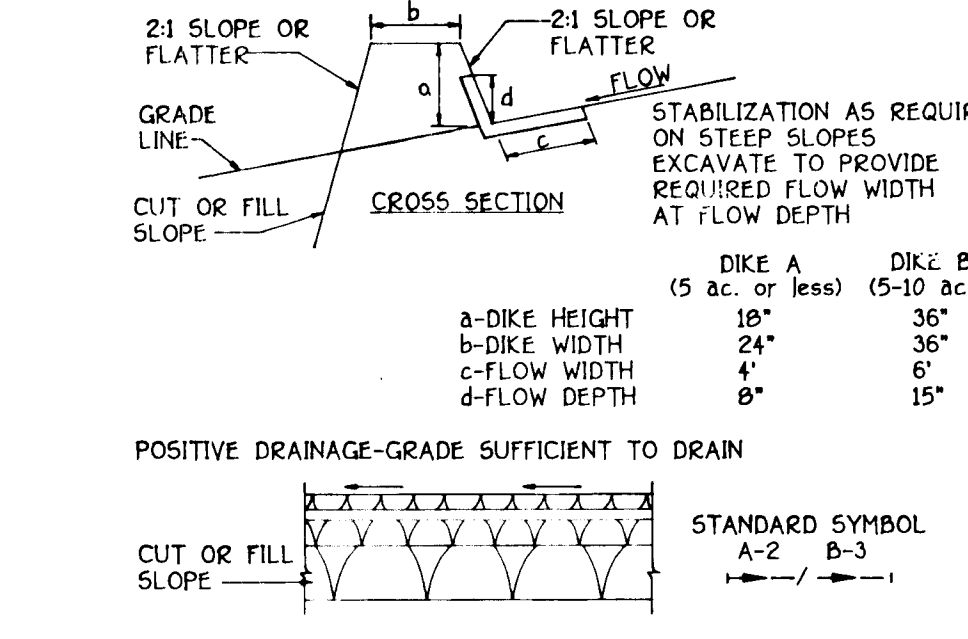
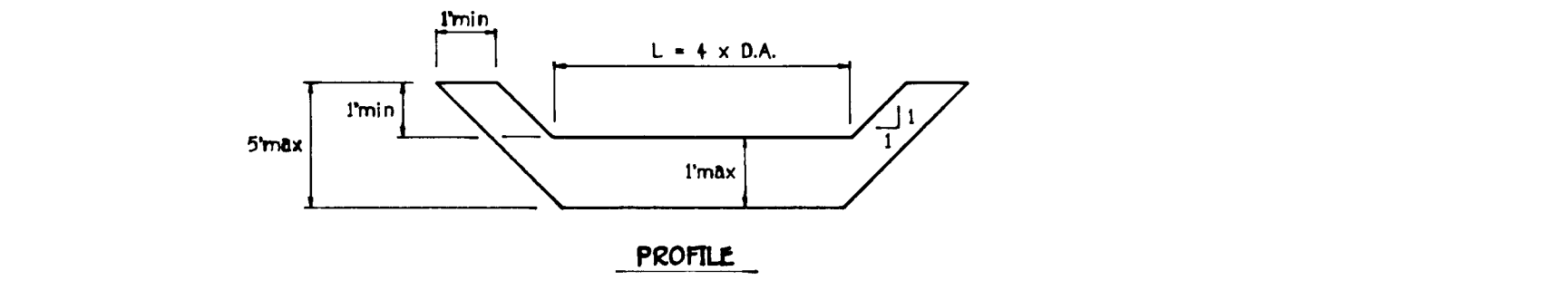
ROAD NAME	CLASSIFICATION	DESIGN SPEED	BOUNDING	R. STA. LIMITS
MOUTICELLO DRIVE	LOCAL ROAD	30 MPH	PC-OEG	STA. 19+50.06 TO STA. 20+40



- CONSTRUCTION SPECIFICATIONS**
- STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
 - LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 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. 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 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**
- 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" AT TOP AND MID SECTION.
 - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
 - MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN 'BULGES' DEVELOP IN THE SILT FENCE.
- POSTS: STEEL EITHER 1" OR 2" TYPE OR 2" HARDWOOD
 FENCE: WOVEN WIRE, 14 GA. 6" MAX. MESH OPENING
 FILTER CLOTH: FILTER X, MIRAFL 100X, STABILINKA T14 OR APPROVED EQUAL
 PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL



- 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 RUNOFF SHALL BE CONVEYED TO A 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.

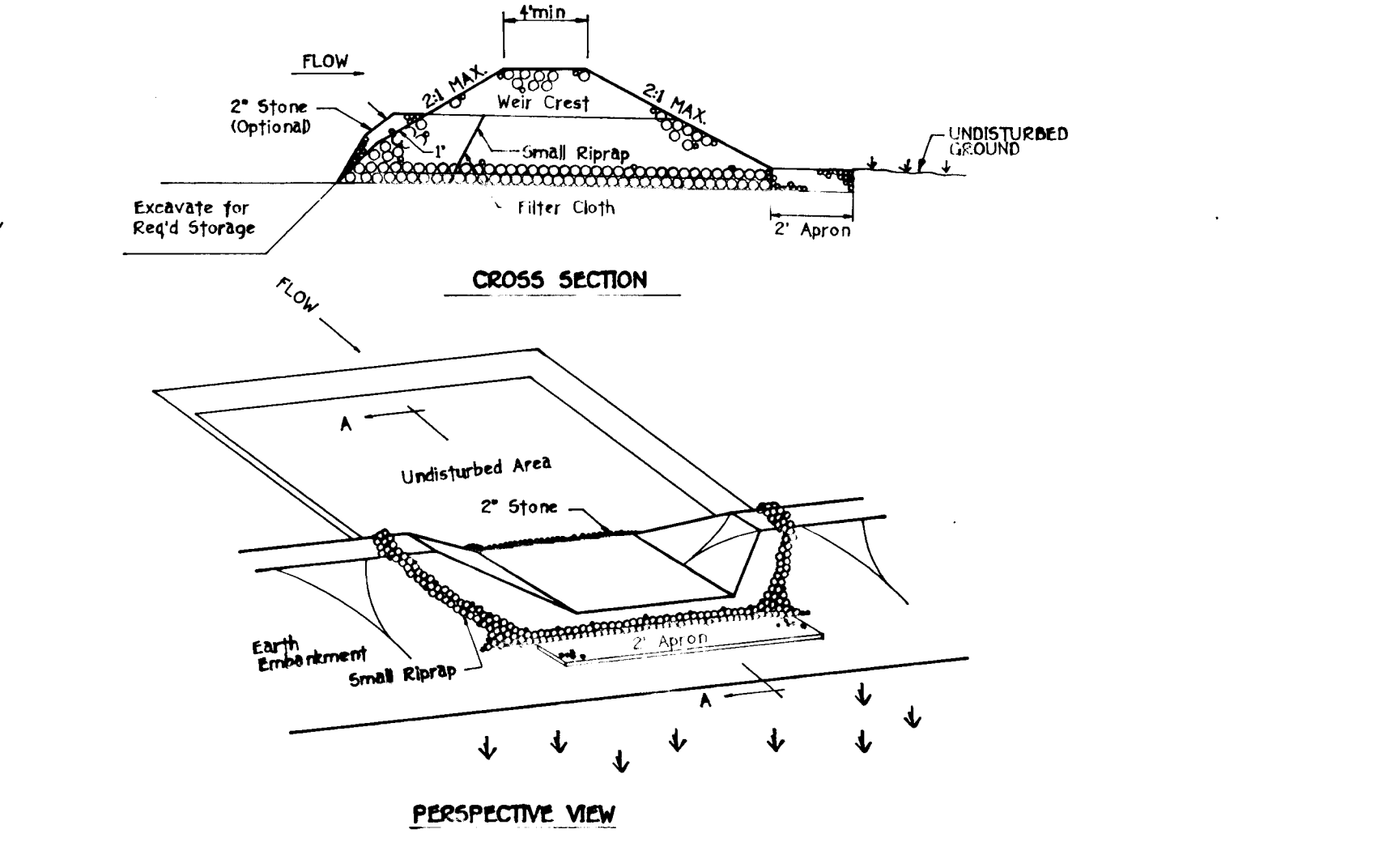
FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1	5-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0%	SEED AND STRAW MULCH	SEED USING JUTE, OR EXCELSIOR; SOD; 2" STONE
3	5.1-8.0%	SEED WITH JUTE, OR SOD; 2" STONE	LINED RIP-RAP 4"-8"
4	8.1-20%	LINED RIP-RAP 4"-8"	ENGINEERING DESIGN

- EARTH DIKE**
- STONE TO BE 2 INCH STONE, OR RECYCLED CONCRETE EQUIVALENT, IN A LAYER AT LEAST 3 INCHES IN THICKNESS AND BE PRESSED INTO THE SOIL WITH CONSTRUCTION EQUIPMENT.
 - RIP-RAP TO BE 4-8 INCHES IN A LAYER AT LEAST 8 INCHES THICKNESS AND PRESSED INTO THE SOIL.
 - APPROVED EQUIVALENTS CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS.
7. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.



- SEQUENCE OF CONSTRUCTION**
- OBTAIN GRADING PERMIT. (1 DAY)
 - NOTIFY 'MISS' UTILITIES 48 HOURS BEGINNING ANY WORK AT 1-800-257-7777. NOTIFY HOWARD COUNTY OFFICE OF CONSTRUCTION/INSPECTION DIVISION AT (410) 313-1000, 24 HOURS BEFORE STARTING ANY WORK. (1 DAY)
 - INSTALL STONE CONSTRUCTION ENTRANCE. (1 DAY)
 - CONSTRUCT EARTH DIKES AND STONE OUTLET SEDIMENT TRAP. STABILIZE TRAP WITH TEMPORARY SEEDING. (3 DAYS)
 - GRADE SITE TO SUBGRADE AND INSTALL STORM DRAIN SYSTEM. INSTALL INLET PROTECTION ON INLETS. (2 WEEKS)
 - SEDIMENT SHALL BE REMOVED FROM STONE OUTLET SEDIMENT TRAP ONCE THE CLEANOUT ELEVATION HAS BEEN REACHED. (1 DAY)
 - INSTALL ROAD BASE COURSE. (2 DAYS)
 - REMOVE SEDIMENT FROM ROADWAY AND DRESS STONE CONSTRUCTION ENTRANCE AS REQUIRED AND STABILIZE ALL DISTURBED AREAS. (1 DAY)
 - REMOVE INLET PROTECTION AND FLUSH STORM DRAIN SYSTEM TO REMOVE ANY TRAPPED SEDIMENT. (1 DAY)
 - APPLY TACK COAT TO SUBBASE AND LAY SURFACE COURSE. (2 DAYS)
 - REMOVE ALL SEDIMENT CONTROL MEASURES UPON SEDIMENT CONTROL INSPECTORS APPROVAL. (2 DAYS)
 - ALL DISTURBED AREAS DUE TO REMOVAL OF SEDIMENT CONTROL MEASURES SHALL BE GRADED AND STABILIZED BY PERMANENT SEEDING.



FISHER, COLLINS & CARTER, INC.
 971 BALTIMORE NATIONAL BLDG. SUITE 1100
 BALTIMORE, MD 21201
 TEL: 410-528-8800

- SEDIMENT CONTROL NOTES**
- A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (992-2437).
 - ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED IN CONFORMANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
 - FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: a) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES; b) 14 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES; c) 14 CALENDAR DAYS FOR ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT; d) 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 DRAIN AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1983 MARYLAND STANDARD AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. FOR PERMANENT SEEDINGS (SEC. 50) 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 GRASSES.
 - ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMITS FOR THEIR REMOVAL HAVE BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
 - SITE ANALYSIS:

TOTAL AREA OF SITE	36.11 ACRES
AREA DISTURBED	8.25 ACRES
AREA TO BE ROOFED OR PAVED	0.45 ACRES
AREA TO BE VEGETATIVELY STABILIZED	2.80 ACRES
TOTAL CUT	2000 CU.YDS.
TOTAL FILL	2000 CU.YDS.
OFFSITE WASTE/BORROW AREA LOCATION	N/A CU.YDS.
 - ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
 - ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY DPW 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 EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- PERMANENT SEEDING NOTES**
 ALL DISTURBED AREAS SHALL BE STABILIZED AS FOLLOWS:
- SEEDING PREPARATION:**
 LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.
- SOIL AMENDMENTS:**
 APPLY TWO TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS./1,000 SQ.FT.) AND 600 LBS. PER ACRE 0-20-20 FERTILIZER (14 LBS./1,000 SQ.FT.) BEFORE SEEDING HARROW, DISC, INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS./1,000 SQ.FT.) AND 500 LBS. PER ACRE (11.5 LBS./1,000 SQ.FT.) OF 10-20-20 FERTILIZER.
- SEEDING:**
 FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 100 LBS. PER ACRE (2.3 LBS./1,000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE, FOR THE PERIOD MAY 1 THROUGH JULY 31, SEED WITH 60 LBS./ACRE (1.4 LBS./1,000 SQ.FT.) KENTUCKY 31 TALL FESCUE AND 2 LBS. PER ACRE (0.05 LBS./1,000 SQ.FT.) OF WEEPING LOVEGRASS, DURING THE PERIOD OF OCTOBER 16 THROUGH FEBRUARY 28, PROJECT SITE BY: OPTION (1) - TWO 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 100 LBS./ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH TWO TONS/ACRE WELL ANCHORED STRAW. ALL SLOPES SHOULD BE HYDROSEEDED.
- MULCHING:**
 APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1,000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING 200 GALLONS PER ACRE (5 GAL./1,000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT ACRES, ON SLOPES 8 FEET OR HIGHER, USE 340 GALLONS PER ACRE (8 GAL./1,000 SQ.FT.) FOR ANCHORING.
- MAINTENANCE:**
 INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.
 * FOR PUBLIC ROADS SUBSTITUTE CHEMUNG CROWNVECH AT 15 LBS./ACRE AND KENTUCKY 31 TALL FESCUE AT 40 LBS./ACRE AS THE SEEDING REQUIREMENT. OPTIMUM SEEDING DATE FOR THIS MIXTURE IS MARCH 1 TO APRIL 30.

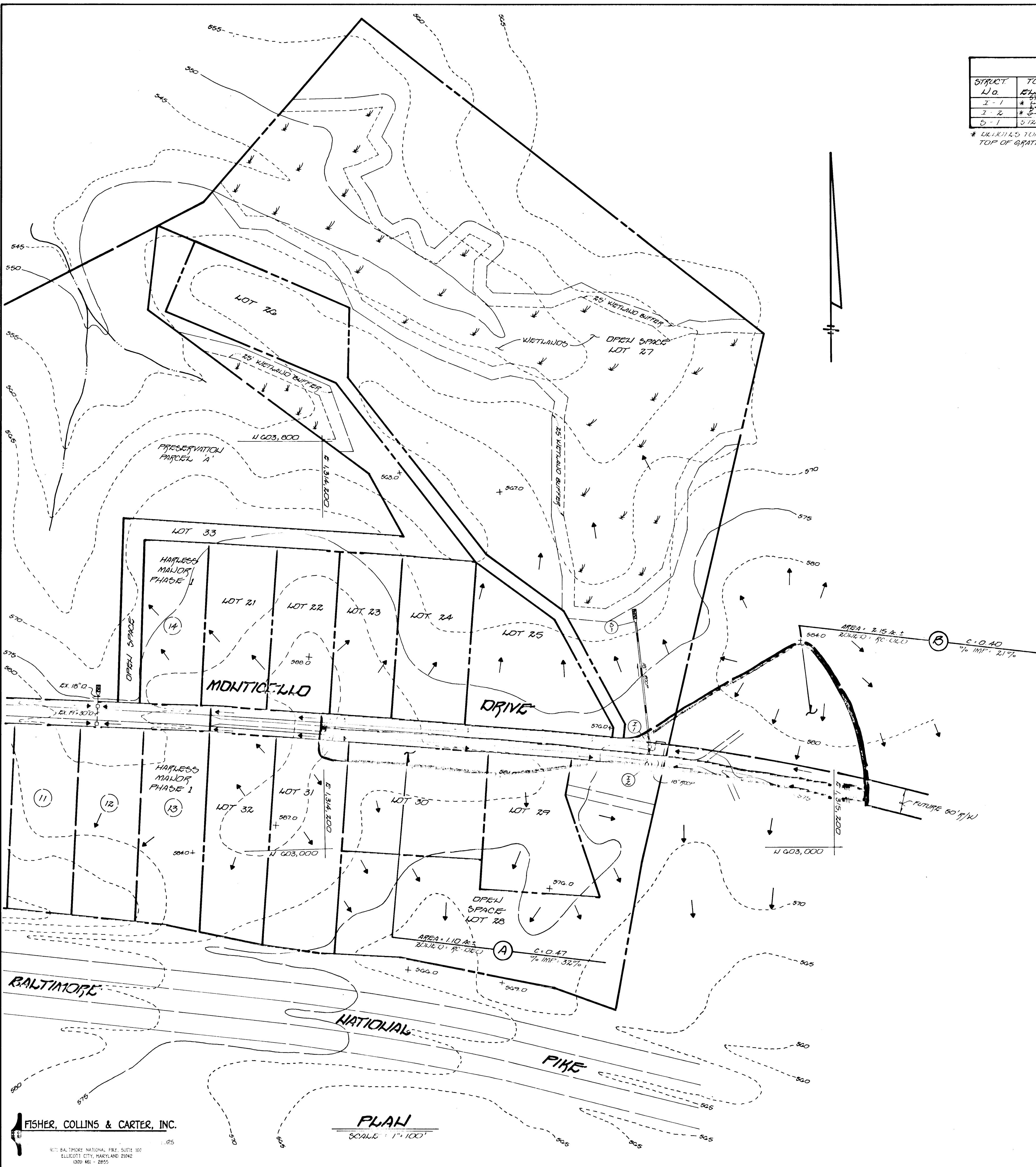


OWNER
 PATRY M. HEWITT, TRUSTEE
 14070 MOUTICELLO DRIVE
 COOPIVILLE, MARYLAND 21778

DEVELOPER
 HARLESS MAJOR, L.L.C.
 14070 MOUTICELLO DRIVE
 COOPIVILLE, MARYLAND 21778

TYPICAL ROADWAY SECTION
SEDIMENT CONTROL NOTES AND DETAILS
HARLESS MAJOR
 PHASE 2 LOTS 21-33
 BELLEVOUE RD. 4TH EJECT. DIST.
 HOWARD COUNTY, MD.
 SCALE AS SHOWN
 APRIL 21, 1995
 SHEET 4 OF 6

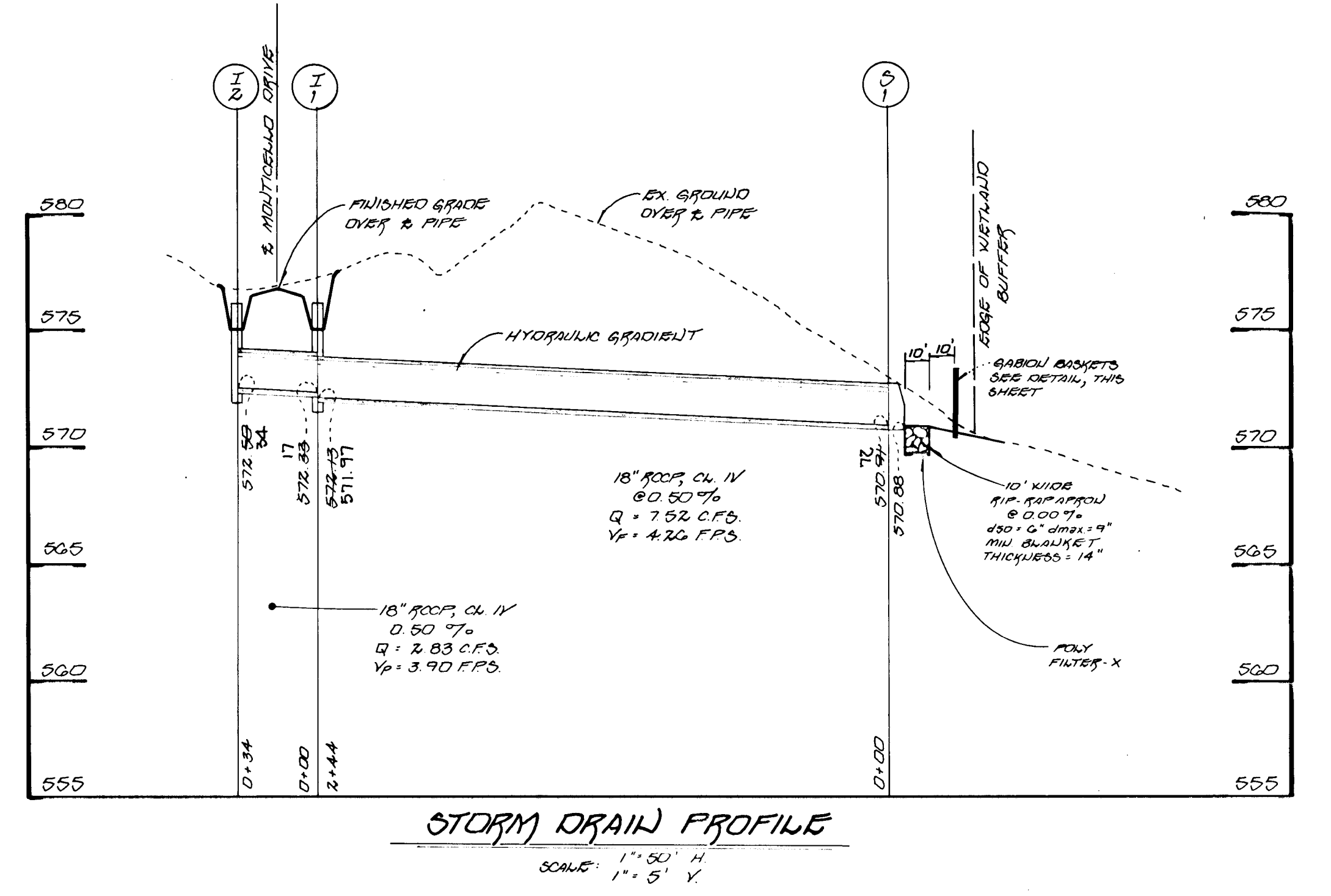
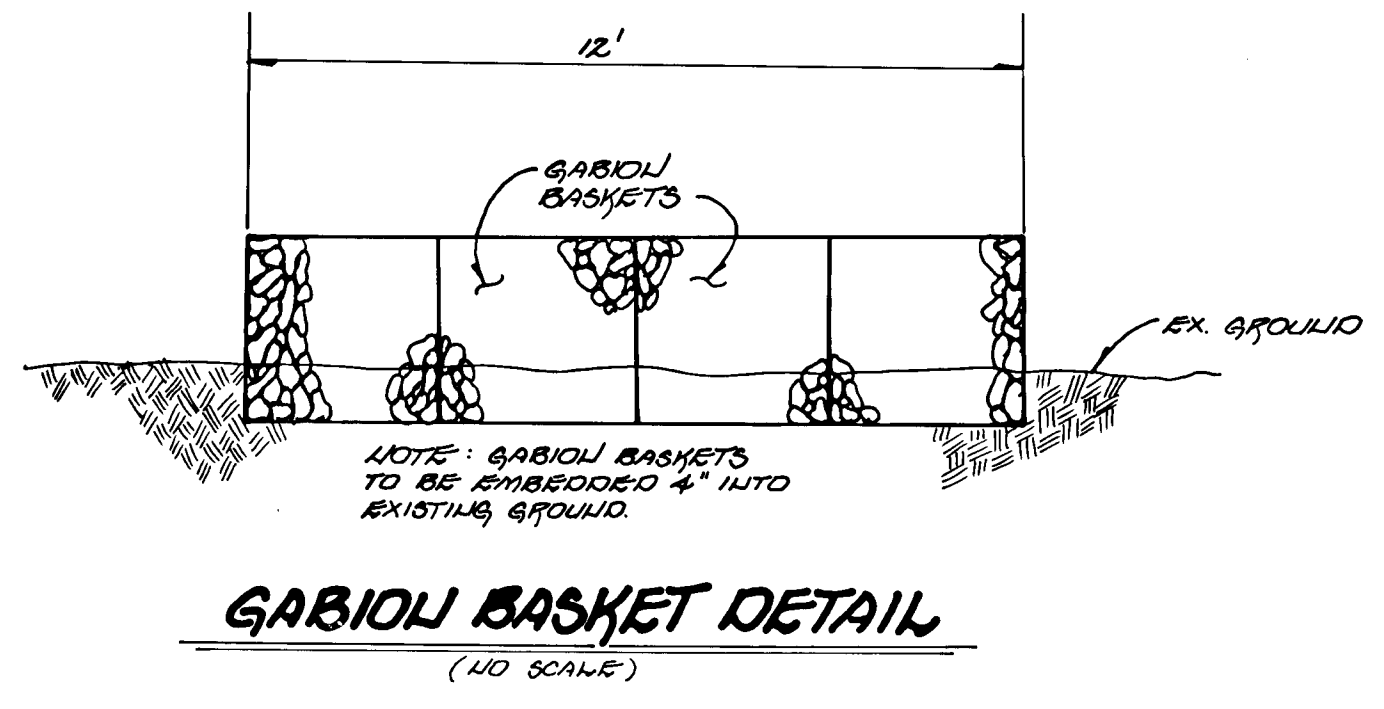
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STRUCTURE SCHEDULE

STRUCT. I.D.	TOP ELEV.	INV. IN.	INV. OUT.	ROAD NAME	ROAD STA.	OFFSET	TYPE	REMARKS
2-1	575.95	572.35	574.97	MONTICELLO DRIVE	28+17	17' LEFT	4" INLET & GRATE	5.0' x 12' x 4.13'
2-2	575.95	572.35	574.97	MONTICELLO DRIVE	28+27.18	17' RIGHT	4" INLET & GRATE	5.0' x 12' x 4.13'
3-1	572.42	570.57	570.57	MONTICELLO DRIVE	27+01	255' LEFT	6" RC CULVERT	5.0' x 5.0'

* DRAINAGE TOP OF GRATE ELEVATION
TOP OF GRATE IS 15" ABOVE CATCH INLET



APPROVED:
DEPARTMENT OF PLANNING AND ZONING

Jim Sullivan 9/1/95
CHIEF, DIVISION OF LAND DEVELOPMENT, DATE
AND REVISIONS

John Sullivan 9/5/95
CHIEF, DEVELOPMENT ENGINEERING DIVISION

APPROVED:
DEPARTMENT OF PUBLIC WORKS

Richard M. Dwyer 8-30-95
CHIEF, BUREAU OF HIGHWAYS HS DATE

DRAINAGE AREA MAP AND
STORM DRAIN PROFILES

HARLESS MANOR
PHASE 2 LOTS 21-33
ZONED RC-DEO FOURTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN
APRIL 21, 1995
SHEET 5 OF 6



DESIGNER
PATSY K. HENNING, TRUSTEE
14070 MONTICELLO DRIVE
COOKSVILLE, MARYLAND 21723

DEVELOPER
HARLESS MANOR, L.L.C.
14070 MONTICELLO DRIVE
COOKSVILLE, MARYLAND 21723

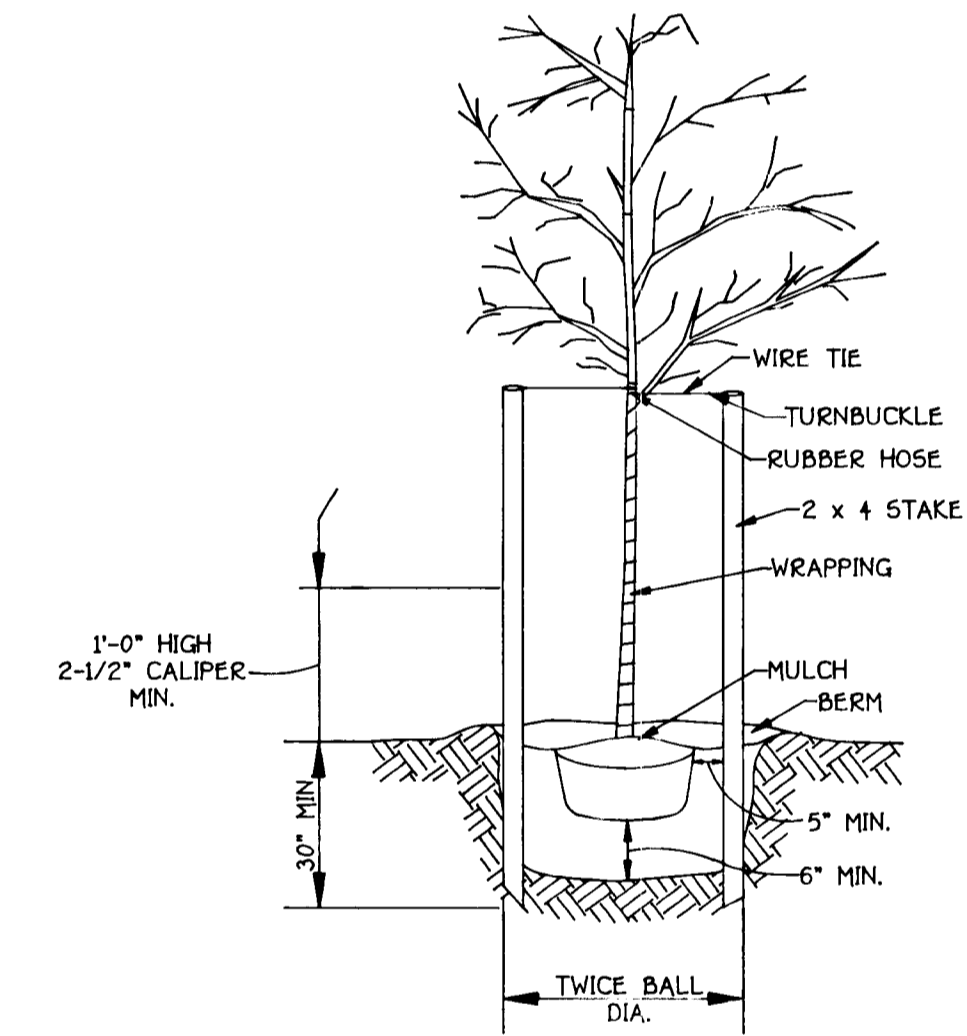
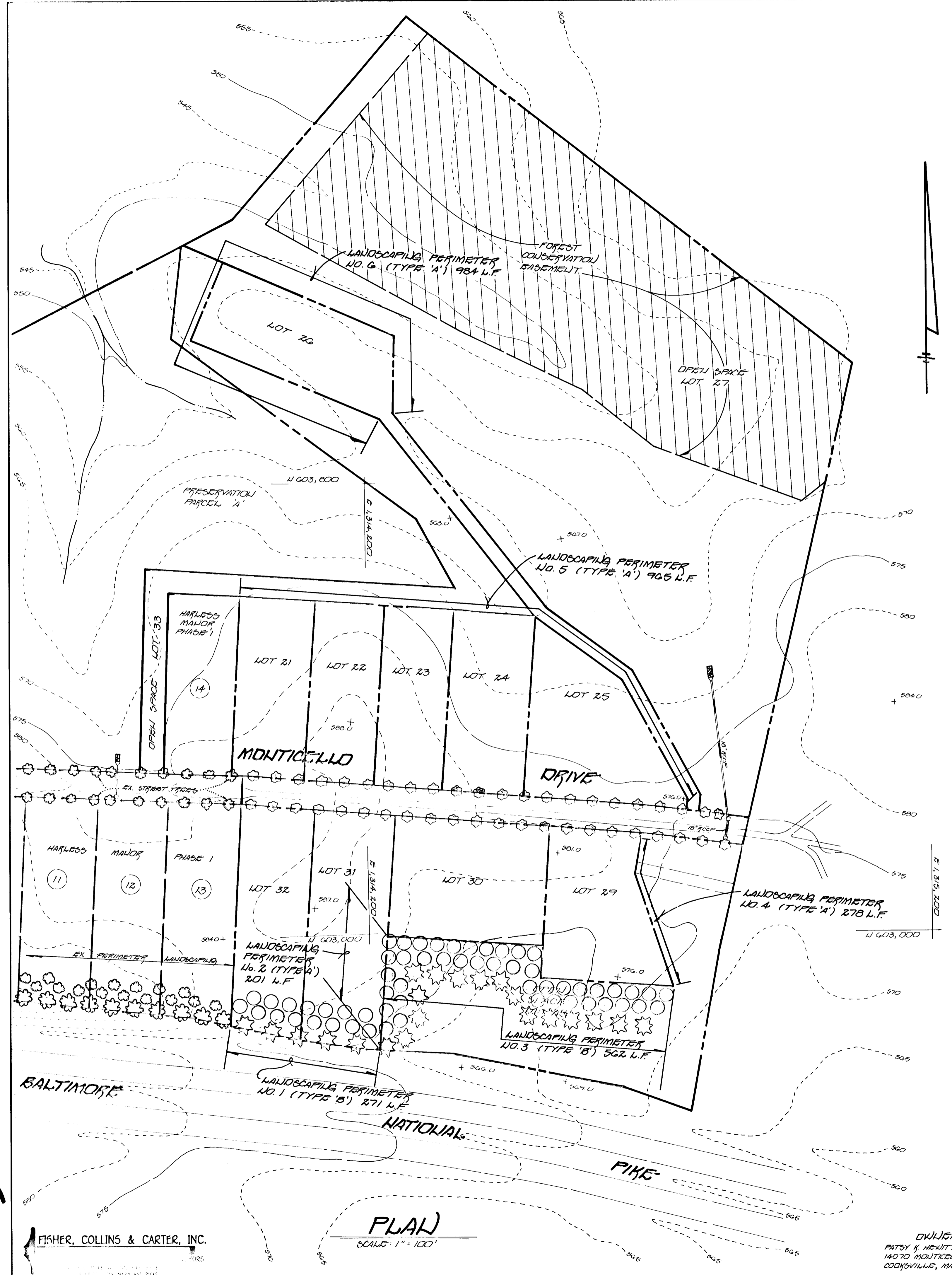
FISHER, COLLINS & CARTER, INC.
911 BALTIMORE NATIONAL PIKE, SUITE 100
ELLICOTT CITY, MARYLAND 21114
(301) 461-2855

1733

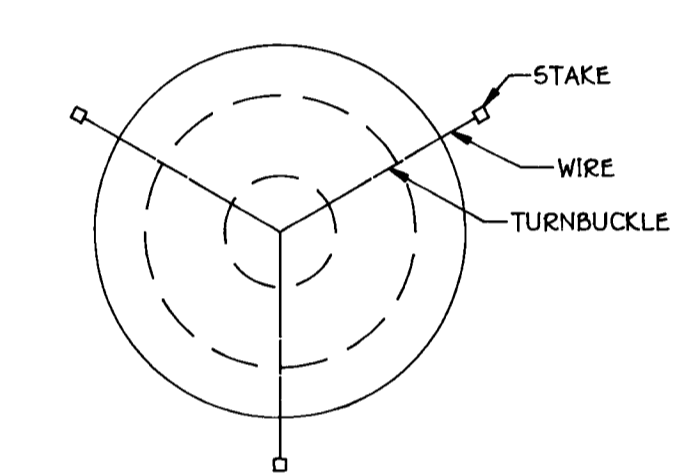
APPROVED
DEPARTMENT OF PLANNING AND ZONING

Jim Summons 9/6/95
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH
John Dammann 9/5/95
CHIEF, DEVELOPMENT ENGINEERING DIVISION

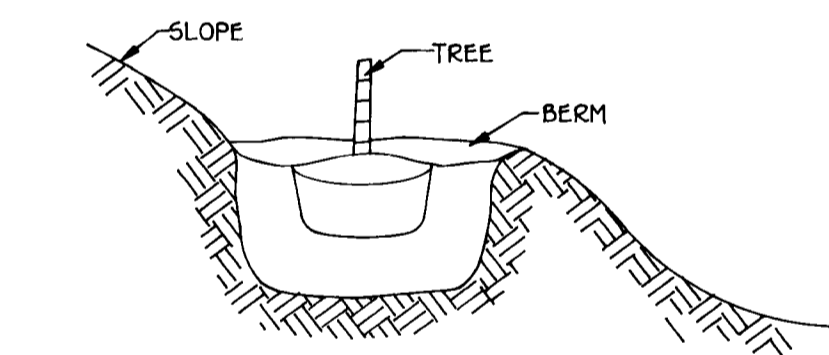
APPROVED
DEPARTMENT OF PUBLIC WORKS
Richard M. Douker 8-30-95
CHIEF, BUREAU OF HIGHWAYS



NOTE: REMOVE BURLAP FROM TOP 1/3 OF BALL
TREE PLANTING
NOT TO SCALE



STAKING DETAIL
NOT TO SCALE



GRADING FOR PLANTING ON SLOPES
NOT TO SCALE

STREET TREE SCHEDULE			
SYMBOL	BOTANICAL AND COMMON NAME	SIZE AND ROOT	COMMENTS
	QUERCUS COCCINEAS SCARLET OAK	MIN. 2 1/2" CALIPER B AND B	40' APART ON PUBLIC ST./X

NOTE: STREET TREE IS ONLY A RECOMMENDATION. THIS MAY BE REVISED TO A COUNTY ACCEPTABLE EQUIVALENT.

SCHEDULE A PERIMETER LANDSCAPE EDGE				
CATEGORY	Adjacent to Roadways		Adjacent to Perimeter Properties	
	PERIMETER	L.F.	PERIMETER	L.F.
LANDSCAPE TYPE	B		A	
PERIMETER	NO. 1	271	NO. 2	201
LINEAR FEET OF	NO. 3	562	NO. 4	278
			NO. 5	965
			NO. 6	984
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	N/A		N/A	
CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET) (DESCRIBE IF NEEDED)	N/A		N/A	
NUMBER OF PLANTS REQUIRED				
SHADE TREES	833/50 = 17		2428/60 = 41	
EVERGREEN TREES	833/40 = 21			
SHRUBS				
NUMBER OF PLANTS PROVIDED				
SHADE TREES	17 SHADE TREES		41 SHADE TREES	
EVERGREEN TREES	21 EVERGREEN TREES			
OTHER TREES (21 SUBSTITUTION)				
SHRUBS (101 SUBSTITUTION)				
(DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED)				

THE LANDSCAPING REQUIREMENTS FOR PERIMETERS 4, 5 AND 6 WILL BE PLACED ALONG PERIMETERS NO. 1, 2, AND 3 IN ADDITION TO THEIR OWN OBLIGATIONS.

- DENOTES SHADE TREES (98 TOTAL)
- DENOTES EVERGREENS (21 TOTAL)
- DENOTES STREET TREES (144 TOTAL)

OWNER
PATSY K. HEWITT, TRUSTEE
14070 MONTICELLO DRIVE
COOKSVILLE, MARYLAND 21723

DEVELOPER
HARLESS MANOR, L.L.C.
14070 MONTICELLO DRIVE
COOKSVILLE, MARYLAND 21723



LANDSCAPING PLAN
HARLESS MANOR
PHASE 2 LOTS 21-33
ZONED RC-DEO FOURTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN
APRIL 21, 1995
SHEET 6 OF 6

1733

FISHER, COLLINS & CARTER, INC.

PLAN
SCALE: 1" = 100'