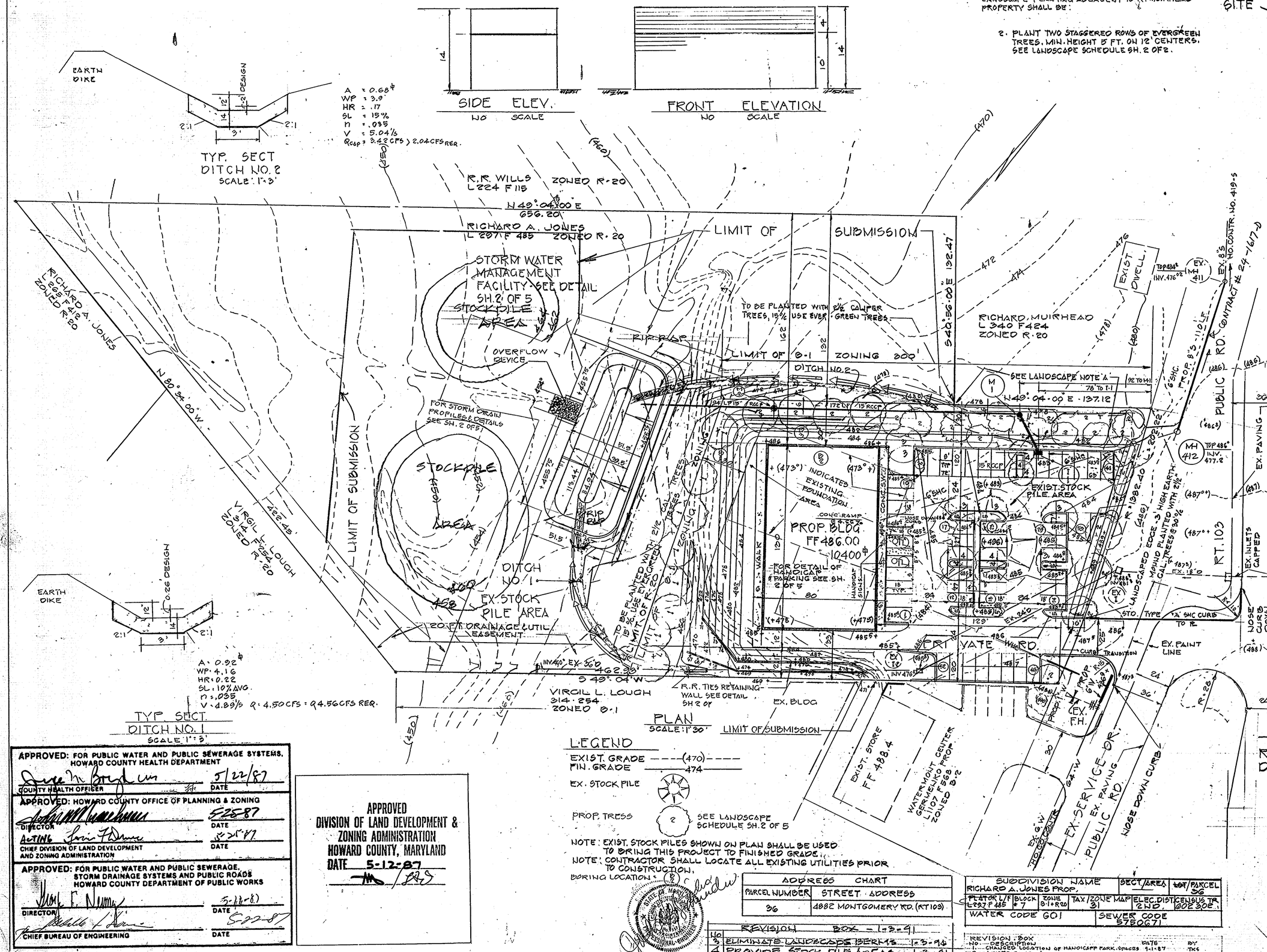
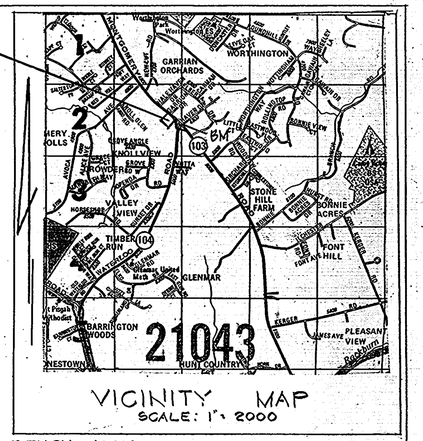
NOTE A
LANDSCAPE PLANTING ADJACENT TO R. MUIRHEAD PROPERTY SHALL BE:

2. PLANT TWO STAGGERED ROWS OF EVERGREEN TREES, MIN. HEIGHT 5 FT. ON 12' CENTERS. SEE LANDSCAPE SCHEDULE SH. 2 OF 2.





VICINITY MAP
SCALE: 1" = 2000'

BENCH MARK
BENCH MARK T-7 ELEV. 498.383
DESCRIPTION: FIRE HYDRANT BONNETT BOLT @ CORNER OF SOUTH HAVEN DRIVE.

GENERAL NOTES:

1. AREA OF SITE 4.37 AC.±
2. AREA OF SUBMISSION 1.6 AC.±
3. PARCEL OR PLAT REF. D.R. L 297 F 485
4. OWNER/DEVELOPER: RICHARD A. JONES
   8440 GROVE ANGLE RD
   ELLICOTT CITY, MD. 21043
   301-465-0647
5. ZONING CLASSIFICATION B-1
6. TAX MAP 31 ZONING MAP 31
7. SITE USE PROPOSED: RETAIL STORES
8. PUBLIC WATER AND SEWER
   ~~PRIVATE WATER AND SEWER~~
9. DENSITY CALCULATIONS

	S.F.	AC.	PERCT.
A. AREA OF SITE	69,696	1.6 AC.±	
B. BUILDING COVERAGE	10,400	0.24±	15%
C. PAVING	23,464	0.54±	34%
D. OPEN SPACE	35,832	0.82±	51%

10. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES.
11. DEVELOPER SHALL REPAIR ANY DAMAGE TO COUNTY R/W OR PAVING CAUSED BY WORK ON THIS PROJECT. COST OF REPAIR SHALL BE AT DEVELOPER'S EXPENSE.
12. NOTIFY HO. CO. DEPART. OF PERMITS & INSPECTIONS PRIOR TO BEGINNING WORK.
13. PARKING ANALYSIS
    A. PARKING SPACES REQUIRED
    RETAIL 1 P.S. PER 200 ft
    10,400 S.F. RETAIL = 52 P.S.
    200 S.F. PER SPACE
    B. PARKING SPACES SHOWN = 52 P.S.
14. PARKING AREA'S LANDSCAPING REQ.
    PARKING AREA = 20,800 ft @ 5% = 1040 ft REQ.
    1242 ft SHOWN

LEGEND

EXIST. GRADE ----(470)----
FIN. GRADE ——474——
EX. STOCK PILE
PROP. TREES — SEE LANDSCAPE SCHEDULE SH. 2 OF 5

NOTE: EXIST. STOCK PILES SHOWN ON PLAN SHALL BE USED TO BRING THIS PROJECT TO FINISHED GRADE.
NOTE: CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
BORING LOCATION

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 5/22/87

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
DIRECTOR — DATE 5-28-87
ACTING CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 5-27-87

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 5-18-87
CHIEF BUREAU OF ENGINEERING — DATE 5-22-87

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 5-12-87

ADDRESS CHART	
PARCEL NUMBER	STREET ADDRESS
36	4882 MONTGOMERY RD. (RT 103)

REVISION BOX - 1-3-91		
NO		
3	ELIMINATE LANDSCAPE BERMS	1-3-91
4	PROVIDE STOCK PILE AREAS	1-3-91
5	ELIMINATE RIPRAP OUTSIDE SWM FACILITY	

SUBDIVISION NAME RICHARD A. JONES PROP.					SECT/AREA	LOT	PARCEL 36
PLAT OR L/F L 297 F 485	BLOCK 7	ZONE B-1 R20	TAX ZONE 31	MAP	ELEC. DIST 2ND.	CENSUS TR. 602.30E	
WATER CODE 601			SEWER CODE 5780671				

REVISION BOX			
NO	DESCRIPTION	DATE	BY
1	CHANGED LOCATION OF HANDICAPP PARK. SPACES	4-1-87	TKC
2	ADDED RAMP		

SITE DEVELOPMENT PLAN

RICHARD A. JONES PROPERTY
DEED REF. LIBER 297 FOLIO 485
PROP. 130'X80' BUILDING
FOR
RETAIL SALES-10,400 S.F.

4882 MONTGOMERY RD. (RT. 103)

TAX MAP 31 BLOCK 7 PARCEL 36
2ND. DISTRICT HO. COUNTY, MD.
SCALE: 1"=30' FEB. 1987

OWNER: RICHARD A. JONES
8440 GROVE ANGLE RD.
ELLICOTT CITY, MD. 21043
301-465-0647

ENGINEERS:
LAND DEVELOPMENT CONSULTANTS
37 MT. GREEN CIRCLE
BALTO. MD. 21207
301-265-0543

S.D.P. 87-159 SH. 1 OF 5

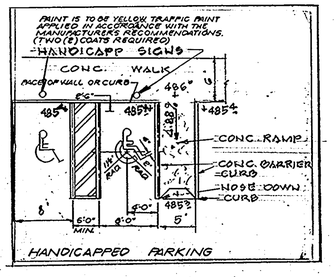
SDP-87-159

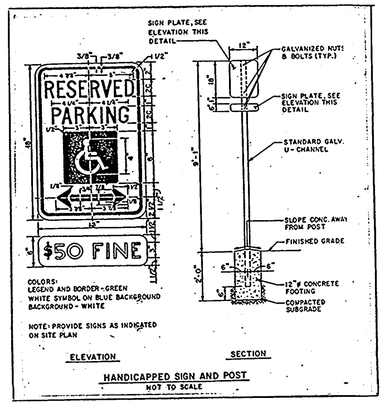
( ) Reviewed for HOWARD S.C.D. and meets Technical Requirements

U.S. Soil Conservation Service — Date

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

Howard S.C.D. — Date





Mounting

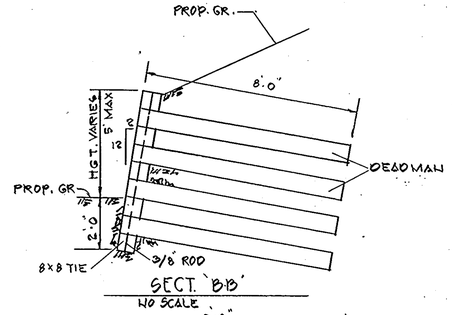
Above sign shall be mounted directly below the standard R7-8 Reserved Parking for Handicapped sign. Its bottom edge shall be no less than 7 feet above ground. If the sign is placed against a building, structure, or other location where vehicle or pedestrian traffic is not obstructed the bottom edge of sign shall be at least 6 feet but not more than 10 feet above ground. Because this is an addition to existing sign installations, some adjustment in height will be necessary.

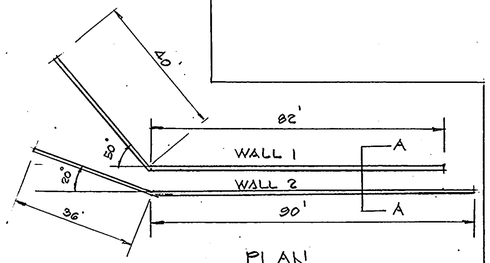
SPECIFICATION

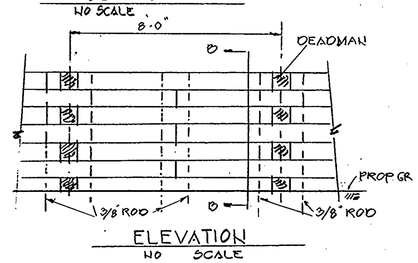
Handicapped Parking Space Violation Fine Notation

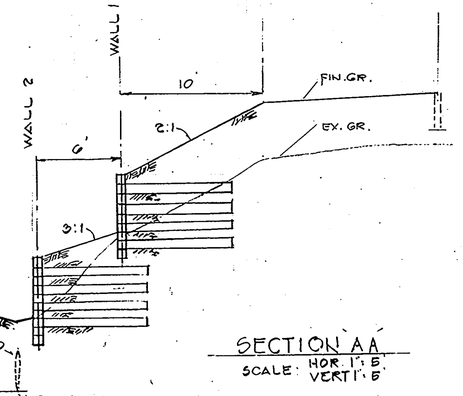
Pursuant to Howard County Council Bill 58-84 which established a Fifty-Dollar ($50.00) fine for violating provisions for Handicapped Parking and provided for posting notifications of that fine, this specification describes the sign authorized for posting and the associated mounting detail.

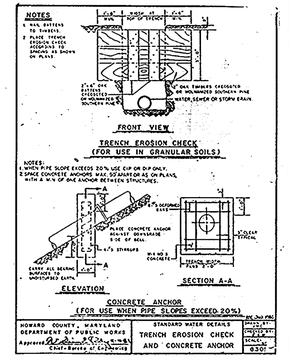
HANDICAPPED PARKING DETAILS
NO SCALE





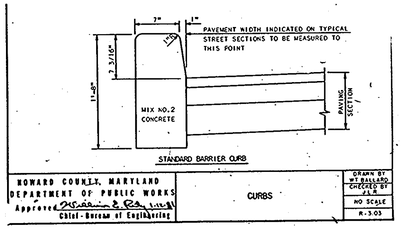




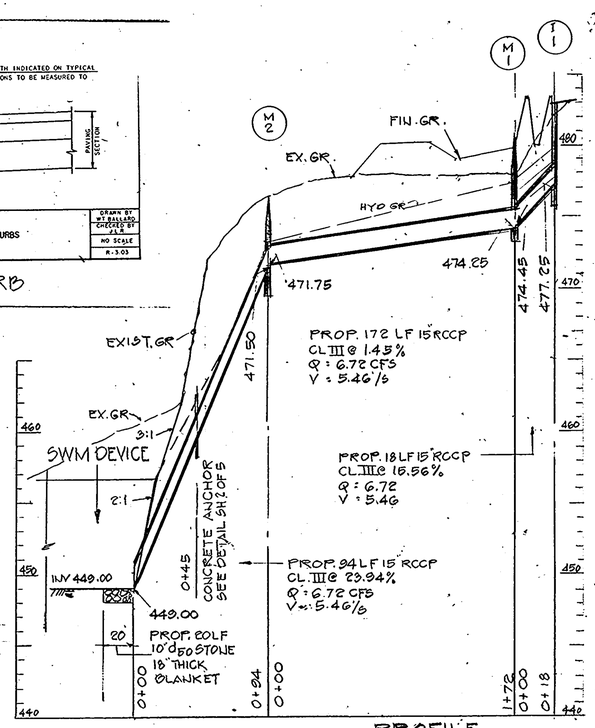


SECTION NUMBER	ROAD AND STREET CLASSIFICATION	PAVEMENT MATERIALS: FULL DEPTH BIT. CONC. ALTERNATE	PAVEMENT MATERIALS: GRANULAR BASE ALTERNATES
P-1	PARKING AREAS AND TRAVELWAYS APARTMENTS AND COMMERCIAL-INDUSTRIAL ZONES WITH NO HEAVY TRUCKS	1" BIT. CONC. SURFACE; 4" BIT. CONC. BASE	1" BIT. CONC. SURFACE; 2" BIT. CONC. BASE; PRIME; 12" COMPACTED MIN. 95% STANDARD DENSITY; 6"-4" DENSE GRADED STABILIZED AGGREGATE BASE COURSE

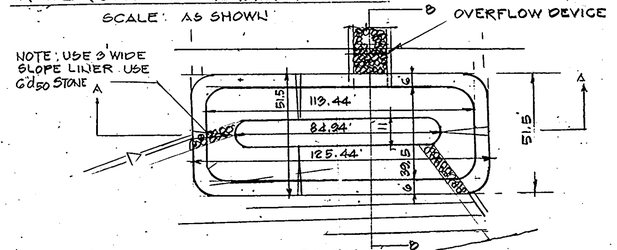
ON-SITE PAVING SECTION
NO SCALE

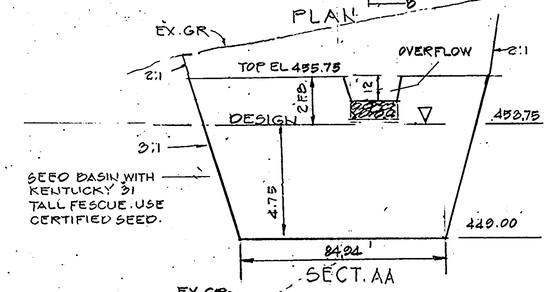


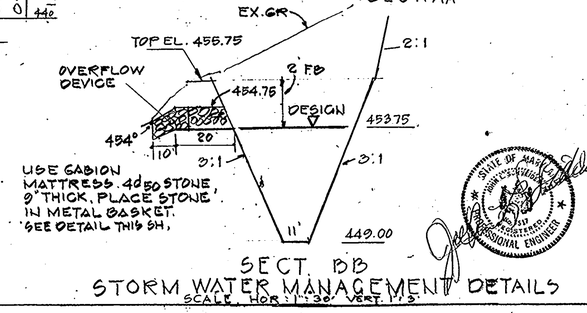
ON-SITE CURB
NO SCALE



DETAILS
RAILROAD TIE RETAINING WALL
SCALE: AS SHOWN







LANDSCAPE SCHEDULE						
SYMBOL	NAME	COMMON NAME	EVERGREEN DECIDUOUS	HEIGHT	CALIPER	SPACING
1	PINUS STROBUS	WHITE PINE	E	5-6'	2½"	MIN. 30' C TO C
2	PINUS SYLVESTRIS	SCOTCH PINE	E	5-6'	2½"	AS NOTED ON PLAN
3	PYRUS CULLERYANA 'BRADFORD'	BRADFORD PEAR	D	4-5'	2½"	AS SHOWN
4	PRUNUS YEDO	YOSHINO CHERRY	D	4-5'	2"	" "
5	CORNUS RACMOSA	GRAY DOGWOOD	D	4-5'	2"	" "

REVISION BOX
1. ADDED CONC. RAMP TO HANDICAPP DETAIL 9-1-87 TCK

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 5/22/87

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
DIRECTOR — DATE 5-28-87
Acting CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 5-21-87

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 5-22-87
CHIEF BUREAU OF ENGINEERING — DATE 5-22-87

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 5-12-87
~~AD~~ 1878

STRUCTURE SCHEDULE				
NO.	TYPE	INV. IN	INV. OUT	TOP EL
T-1	OLD TYPE 'S' INLET, SEE HO. CO. DETAIL S.D. 4.23	-	477.25	483.00
M-1	TYPE A-1 MANHOLE " " " " S.D. 3.01	474.45	474.25	SET IN FIELD
M-2	TYPE A-1 MH " S.D. 3.01	471.75	471.50	SET IN FIELD

NOTE: ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH HOWARD COUNTY DETAILS & SPECIFICATIONS, LATEST EDITION.

DETAILS & SPECIFICATIONS FOR THE

RICHARD A. JONES PROPERTY
DEED REF. L 297 F 485

PROPOSED 130' x 80' BUILDING
FOR
RETAIL SALES - 10,400 S.F.
4882 MONTGOMERY RD. (RT 103)

TAX MAP 31 — BLOCK 7 — PARCEL 36
2ND. DISTR. — HO. CO. MD.
SCALE: AS SHOWN — FEB. 1987

OWNER: RICHARD A. JONES
8440 GROVE ANGLE RD
ELLICOTT CITY MD. 21043
301-465-0647

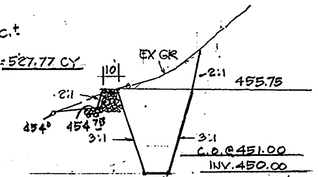
ENGINEERS:
LAND DEVELOPMENT CONSULTANTS
37 MT. GREEN CIRCLE
BALTO. MD. 21207
301-265-6543

S.D.P. 87-159

SH. 2 OF 5.

SDP-87-159

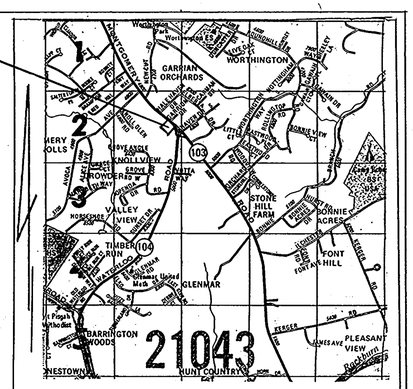
TRAP NO 1
TYPE AS SHOWN
DRAINAGE AREA = 2.22 AC.±
STO. REQ 149 C.Y
STO. PROVIDED 14250 CF = 527.77 CY
OUTLET WIDTH 13'
CLEANOUT EL 451.00



SECT A A
STONE OUTLET SEDIMENT TRAP NO. 1
SCALE: HOR: 1" = 50'
VERT: 1" = 5'

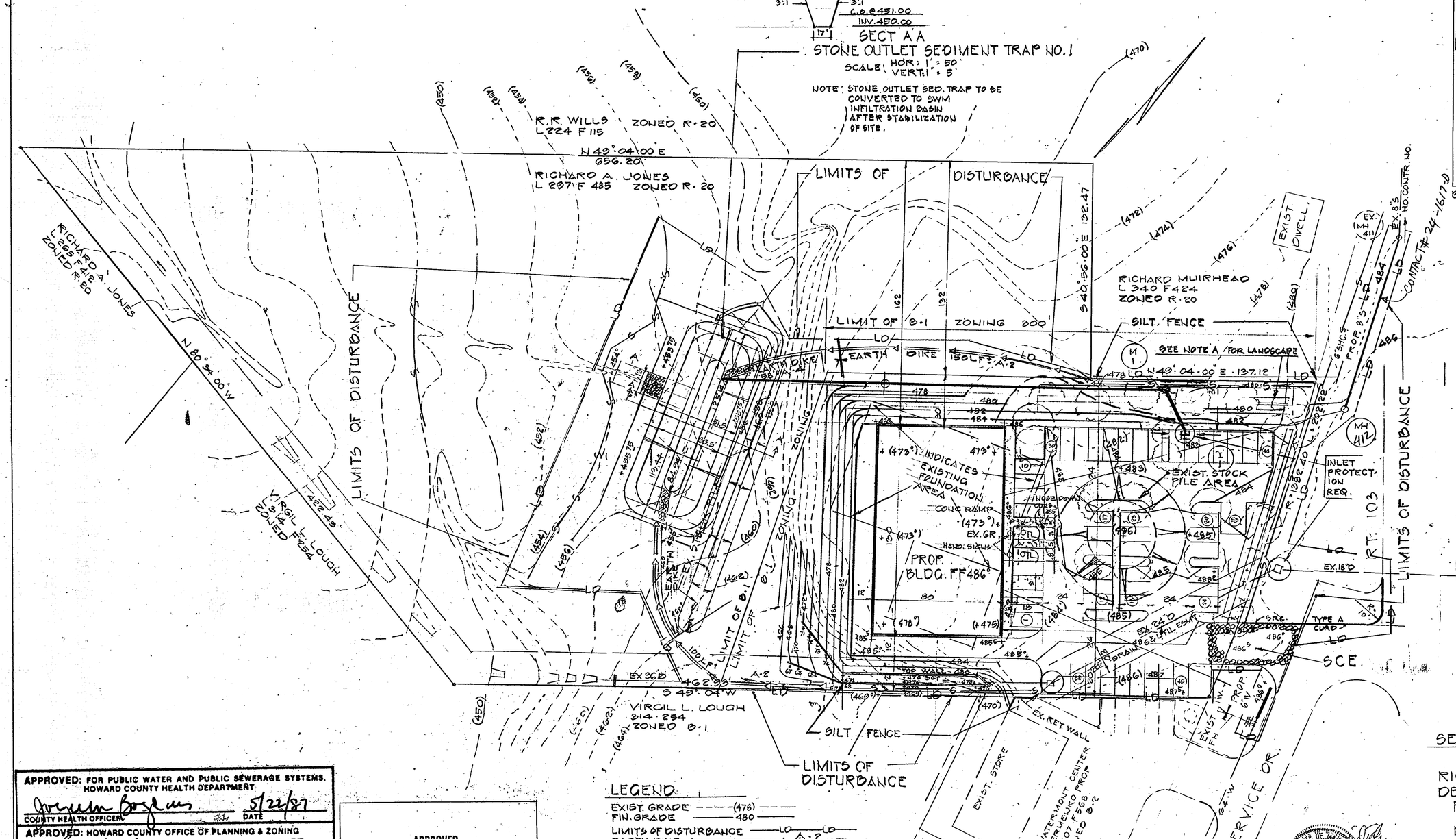
NOTE: STONE OUTLET SED. TRAP TO BE CONVERTED TO SWM INFILTRATION BASIN AFTER STABILIZATION OF SITE.

NOTE A.
LANDSCAPE PLANTING ADJACENT TO R. MUIRHEAD PROPERTY SHALL BE
1. 3' HIGH EARTHERN BERM. PROVIDE OPENING IN BERM FOR DRAINAGE.
2. PLANT TWO STAGGERED ROWS OF EVERGREEN TREES MIN. HEIGHT 5 FT. ON 12' CENTERS



VICINITY MAP
SCALE: 1" = 2000'

BENCH MARK



( ) Reviewed for HOWARD S.C.D. and meets Technical Requirements
U.S. Soil Conservation Service — Date 5-20-87
( ) THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
Howard S.C.D. — Date 5/20/87

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 5/22/87

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
DIRECTOR — DATE 5-25-87
ACTING CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 5-25-87

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 5-22-87
CHIEF BUREAU OF ENGINEERING — DATE 5-22-87

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 5-12-87

LEGEND
EXIST. GRADE ----(478)----
FIN. GRADE ——480——
LIMITS OF DISTURBANCE —LD—LD—
EARTH DIKE A-2
SILT FENCE —S—S—
STABILIZED CONSTRUCTION ENTRANCE SCE
EXIST. STOCK PILE
INLET PROTECTION REQ. (D)

NOTE: EXISTING STOCK PILES SHOWN ON PLAN SHALL BE USED TO BRING THIS PROJECT TO FINISHED GRADE.

NOTE: ENTIRE SITE = CmB2 CHILLUM SILT LOAM
BORINGS BY NATIONAL FOUNDATION ENGR. INC

ADDRESS CHART	
~~LOT~~ PARCEL NUMBER	STREET ADDRESS
36	4882 MONTGOMERY RD. (RT 103)

SUBDIVISION NAME						SECT/AREA	~~LOT~~ PARCEL
RICHARD A. JONES PROP.						–	36
~~PLAT~~ OR L/F L297 F485	BLOCK 7	~~ZONE~~ B-1	TAX/ZONE 31	MAP	ELEC. DIST 2ND.	CENSUS TR. 602.30E	
WATER CODE 601			SEWER CODE 5750671				

REVISION 9-1-87
CHANGED LOCATION OF HANDICAPP PARKING SPACES.

SEDIMENT CONTROL PLAN

RICHARD A. JONES PROPERTY
DEED REF. LIBER 297 FOLIO 485
PROP. 130'X80' BUILDING
FOR
RETAIL SALES 10,400 S.F.

4882 MONTGOMERY RD. (RT. 103)

TAX MAP 31 BLOCK 7 PARCEL 36
2ND. DISTRICT HO. COUNTY MD.
SCALE: 1" = 30' FEB. 1987

OWNER: RICHARD A. JONES
8440 GROVE ANGLE RD.
ELLICOTT CITY, MD. 21043
301-465-0647

ENGINEERS:
LAND DEVELOPMENT CONSULTANTS
37 MT. GREEN CIRCLE
BALTO. MD. 21207
301-265-6543

S.D.P. 87-159 SH 3 OF 5

SDP-87-159

PERMANENT SEEDING NOTES

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

Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.

Soil Amendments: In lieu of soil test recommendations, use one of the following schedule.

1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 square 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 1½ to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq ft) for anchoring.

Matinenance - 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.

Seedbed 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 2½ bushel per acre of annual rye (3.2 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (.07 lbs/1000 sq ft). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

Mulching: Apply 1½ 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.

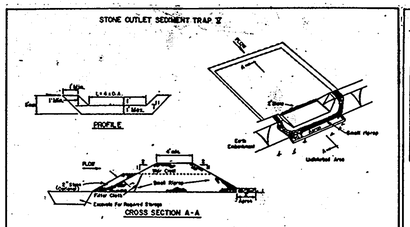
SEDIMENT CONTROL NOTES

1) A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (992-2437)
2) All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
3) Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.
4) All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chaper 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) 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.
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	4.37	Acres
Area Disturbed	2.2	Acres
Area to be roofed or paved	0.78	Acres
Area to be vegetatively stabilized	1.42	Acres
Total Cut	9000	Cu. yds
Total Fill	9000	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 controls must be provided, if deemed necessary by the Howard County DPW sediment control inspector.
10) On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.

STONE OUTLET SEDIMENT TRAP



OPTION: A one foot layer of 2" stone may be placed on the upstream side of the riprap in place of the embedded filter cloth.

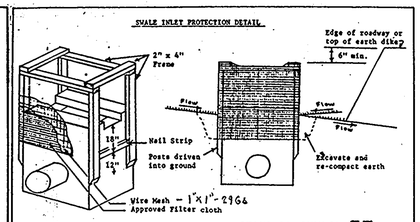
CONSTRUCTION SPECIFICATIONS FOR ST-T

1. 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 roots and 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.
3. All cut and fill slopes shall be 2:1 or flatter.
4. The stone used in the outlet shall be small riprap 4"-8" along with a 1' thickness of 2" aggregate placed on the up-grade side on the small riprap or embedded filter cloth in the riprap.
5. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to ½ the design depth of the trap.
6. The structure shall be inspected after each rain and repairs made as needed.
7. Construction operations shall be carried out in such a manner than erosion and water pollution is minimized.
8. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

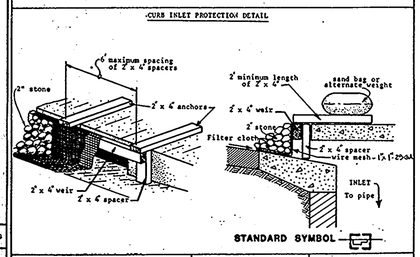
Maximum Drainage Area: 5 Acres

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND	STONE OUTLET SEDIMENT TRAP	STANDARD DRAWING ST-X

SWALE INLET PROTECTION DETAIL



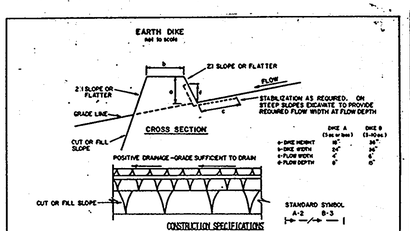
CURB INLET PROTECTION DETAIL



U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND	INLET PROTECTION DETAIL	STANDARD DRAWING IPD-1

EARTH DIKE

not to scale



	DIKE A (Top or Base)	DIKE B (Top or Base)
a-DIKE HEIGHT	18"	30"
b-DIKE WIDTH	6'	8'
c-FLOW WIDTH	40'	50'
d-FLOW DEPTH	2'	2'

CONSTRUCTION SPECIFICATIONS

1. ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.
2. ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
3. TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
4. FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
5. EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. RUNOFF 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.
6. 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

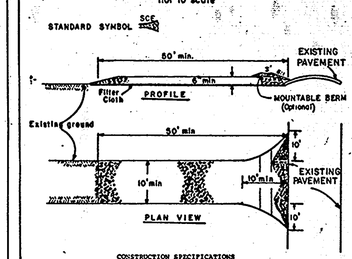
TYPE OF TREATMENT	CHANNEL SLOPE	DIKE A	DIKE B
1	.5-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0%	SEED AND STRAW MULCH	SEED USING JUTE, OR EXCELSIOR; SOD; 2" STONE
3	5.1-8.0%	SEED WITH JUTE, OR SOD; 2" STONE	LINED RIP-RAP 4-8"
4	8.1-20%	LINED RIP-RAP 4-8"	ENGINEERING DESIGN

A. 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.
B. RIP-RAP TO BE 4-8 INCHES IN A LAYER AT LEAST 8 INCHES THICKNESS AND PRESSED INTO THE SOIL.
C. APPROVED EQUIVALENTS CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS.
7. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND	EARTH DIKE	STANDARD DRAWING ED-1

STABILIZED CONSTRUCTION ENTRANCE

not to scale

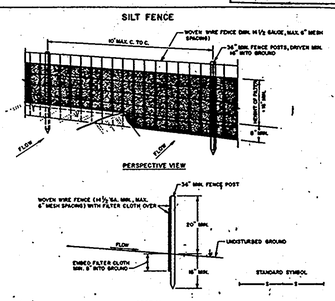


CONSTRUCTION SPECIFICATIONS

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 at 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 mountable berm with 5:1 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 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.
8. 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.
9. Periodic inspection and needed maintenance shall be provided after each rain.

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE College Park, Md.	STABILIZED CONSTRUCTION ENTRANCE	Standard Drawing SCE-T

SILT FENCE



CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

POSTS: STEEL EITHER T OR U TYPE OR 2" HARDWOOD

FENCE: WOVEN WIRE, 14½ GA. 6" MAX. MESH OPENING

FILTER CLOTH: FILTER X, MIRAFI 100X, STABILINKA T130N OR APPROVED EQUAL

PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND	SILT FENCE	STANDARD DRAWING SF-1

STANDARD AND SPECIFICATIONS FOR SILT FENCE

Maryland SCS/WRA April 1983

Definition

A temporary barrier of geotextile fabric (filter cloth) used to intercept sediment laden runoff from small drainage areas of disturbed soil.

Purpose

The purpose of a silt fence is to reduce runoff velocity and effect deposition of transported sediment load. Limits imposed by ultraviolet stability of the fabric will dictate the maximum period the silt fence may be used.

Conditions Where Practice Applies

A silt fence may be used subject to the following conditions:

1. Maximum allowable slope lengths contributing runoff to a silt fence are listed in the table below:

Slope Steepness	Maximum Slope Length (Ft)
2:1	50
3:1	75
4:1	125
5:1	175
Flatter than 5:1	200

2. Maximum drainage area for overland flow to a silt fence shall not exceed ¼ acre per 100 feet of fence; and
3. Erosion would occur in the form of sheet erosion; and
4. There is no concentration of water flowing to the barrier.

Design Criteria

Design computations are not required. All silt fences shall be placed as close to the contour as possible, and the area below the fence must be undisturbed or stabilized.

A detail of the silt fence shall be shown on the plan, and contain the following minimum requirements:

1. The type, size, and spacing of fence posts.

12.01

2. The size of woven wire support fences.
3. The type of filter cloth used.
4. The method of anchoring the filter cloth.
5. The method of fastening the filter cloth to the fencing support.

Where ends of filter cloth come together, they shall be overlapped, folded and stapled to prevent sediment bypass.

See Standard Drawing SF-1 for details.

Criteria for Silt Fence Materials

1. Silt Fence Fabric: The fabric shall meet the following specifications unless otherwise approved by the appropriate erosion and sediment control plan approval authority. Such approval shall not constitute statewide acceptance. Statewide acceptability shall depend on in-field and/or laboratory observations and evaluations.

Fabric Properties	Minumum Acceptable Value	Test Method
Grab Tensile Strength (lbs)	90	ASTM D1682
Elongation at Failure (%)	50	ASTM D1682
Mullen Burst Strength (PSI)	190	ASTM D3786
Puncture Strength (lbs)	40	ASTM D751 (modified)
Slurry Flow Rate (gal/min/sf)	0.3	Virginia DOT VTM-51
Equivalent Opening Size	40-80	US Std Sieve CW-02215
Ultraviolet Radiation Stability %	90	ASTM-G-26

2. Fence Posts (for fabricated units): The length shall be a minimum of 36 inches long. Wood posts will be of sound quality hardwood with a minimum cross sectional area of 3.0 square inches. Steel posts will be standard T and U section weighing not less than 1.00 pound per linear foot.
3. Wire Fence (for fabricated units): Wire fencing shall be a minimum 14½ gage with a maximum 6" mesh opening, or as approved.
4. Prefabricated Units: Envirofence or approved equal may be used in lieu of the above method providing the unit is installed per manufacturer's instructions.

12.02

SEQUENCE OF CONSTRUCTION

1. OBTAIN GRADING PERMIT 2WKS.
2. CLEAR AND GRUBB FOR THE INSTALLATION OF PERIMETER CONTROLS 1WK.
3. INSTALL SEDIMENT CONTROL MEASURES 2WKS.
4. CLEAR & GRUBB REMAINER OF SITE, 2WKS.
5. ROUGH GRADE SITE. STABILIZE AS REQ. 3WKS.
6. INSTALL UTILITIES, PROTECT INLETS. 1WK.
7. CONSTRUCT BUILDING 6 MONTHS
8. INSTALL SUB BASE PAVING. 2 WKS
9. INSTALL PAVING SURF COURSE & CURB. 2 WKS
10. FINE GRADE & STABILIZE AS REQ. 2 WKS.
11. CONVERT STONE OUTLET TRAP TO BECOME PART OF SWM BASIN. 2 WKS.
12. MODIFY EARTH DIKE TO CHANNEL DRAINAGE TO THE SWM BASIN. 1 WK.
13. AFTER FINAL INSPECTION - STAB. SITE AS REQ. REMOVE SED. MEASURES AFTER PERMISSION FROM THE HO. CO. SEDIMENT CONTROL INSPECTOR.

SEDIMENT CONTROL LEGEND

EXISTING GRADE	(250)
FINISHED GRADE (OR PROPOSED GRADE)	250
LIMITS OF DISTURBANCE:	
STABILIZED CONSTRUCTION ENTRANCE:	SCE
SILT FENCE (WHERE APPLICABLE)	S S

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 5-12-87

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

COUNTY HEALTH OFFICER	5/22/87 DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

DIRECTOR	5-25-87 DATE
ACTING CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION	5-12-87 DATE

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

DIRECTOR	5-22-87 DATE
CHIEF, BUREAU OF ENGINEERING	5-22-87 DATE

SEDIMENT CONTROL

( ) Provide the following certification blocks on sediment control plans:

( ) By the Developer:

"I/We certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

Signature of Developer	5-19-87 Date

Print name below signature

( ) By the Engineer:

"I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

Signature of Engineer	3/20/87 Date

Print name below signature

STATE OF MARYLAND REGISTERED PROFESSIONAL ENGINEER No. 11701

( ) Reviewed for HOWARD S.C.D. and meets Technical Requirements

U.S. Soil Conservation Service	5-20-87 Date

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

Howard S.C.D.	5/20/87 Date

SEDIMENT CONTROL DETAILS
RICHARD A. JONES PROPERTY
DEED REF. L 297 F 488
PROP. 130' x 80' BLDG.
FOR
RETAIL SALES - 10,400 S.F
4882 MONTGOMERY RD. (RT 103)
TAX MAP 31 BLOCK 7 PAR. 86
2ND. DISTR. HO. CO. MD.
SCALE: AS SHOWN FEB. 23, 1987

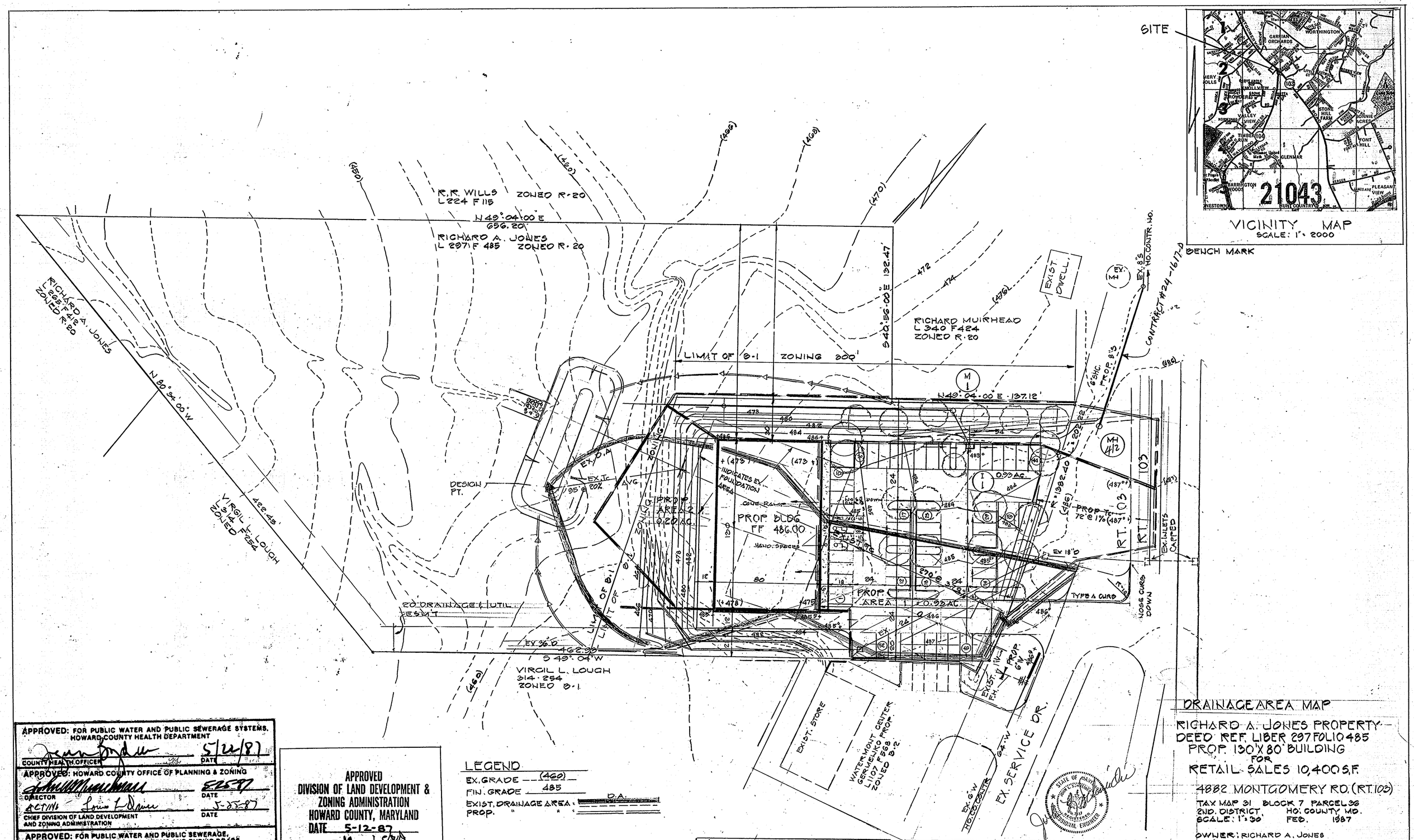
OWNER: RICHARD A. JONES
8440 GROVE ANGLE RD.
ELLICOTT CITY, MD. 21043
301-465-0647

ENGINEERS:
LANDEVELOPMENT CONSULTANTS
37 MT. GREEN CIRCLE
BALTO. MD. 21207
301-265-6543

S.D.P. 87-159

SH. 4 OF 5

SDP-87-159



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

COUNTY HEALTH OFFICER — DATE 5/22/87

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

DIRECTOR — DATE 5-22-87

ACTING CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 5-22-87

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

DIRECTOR — DATE 5-22-87

CHIEF BUREAU OF ENGINEERING — DATE 5-22-87

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 5-12-87

LEGEND

EX. GRADE — (460) —

FIN. GRADE — 485 —

EXIST. DRAINAGE AREA: D.A.

PROP. " " :

ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
	4882 MONTGOMERY RD. (RT 103)

SUBDIVISION NAME			SECT/AREA	LOT/PARCEL
PLAT OR L/F	BLOCK #	TAX/ZONE MAP	ELEC. DIST.	CENSUS TR.
	7	31	2ND.	602.02
WATER CODE		SEWER CODE		

REVISION BOX
1. CHANGED LOCATION OF HANDICAPP PARKING SPACES 9-1-87

DRAINAGE AREA MAP

RICHARD A. JONES PROPERTY
DEED REF. LIBER 297 FOLIO 485
PROP. 130'X80' BUILDING
FOR
RETAIL SALES 10,400 S.F.

4882 MONTGOMERY RD. (RT. 103)

TAX MAP 31 BLOCK 7 PARCEL 36
2ND. DISTRICT HO. COUNTY MD.
SCALE: 1" = 30' FEB. 1987

OWNER: RICHARD A. JONES
8440 GROVE ANGLE RD.
ELLICOTT CITY, MD. 21043
301-465-0647

ENGINEERS:
LAND DEVELOPMENT CONSULTANTS
37 MT. GREEN CIRCLE
BALTO. MD., 21207
301-265-0543

S.D.P. SH. 5 OF 5

SDP-87-159