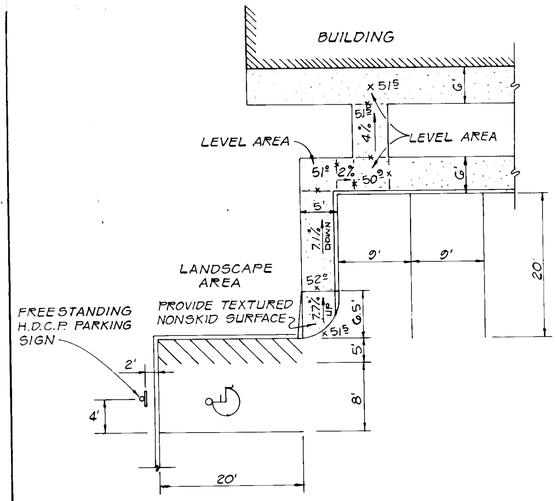
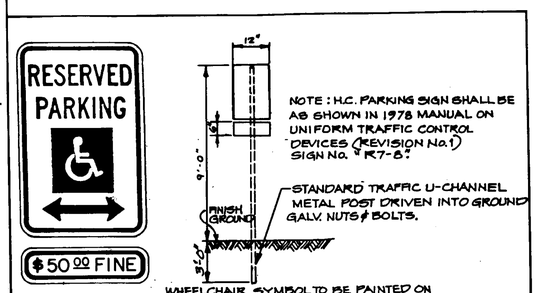
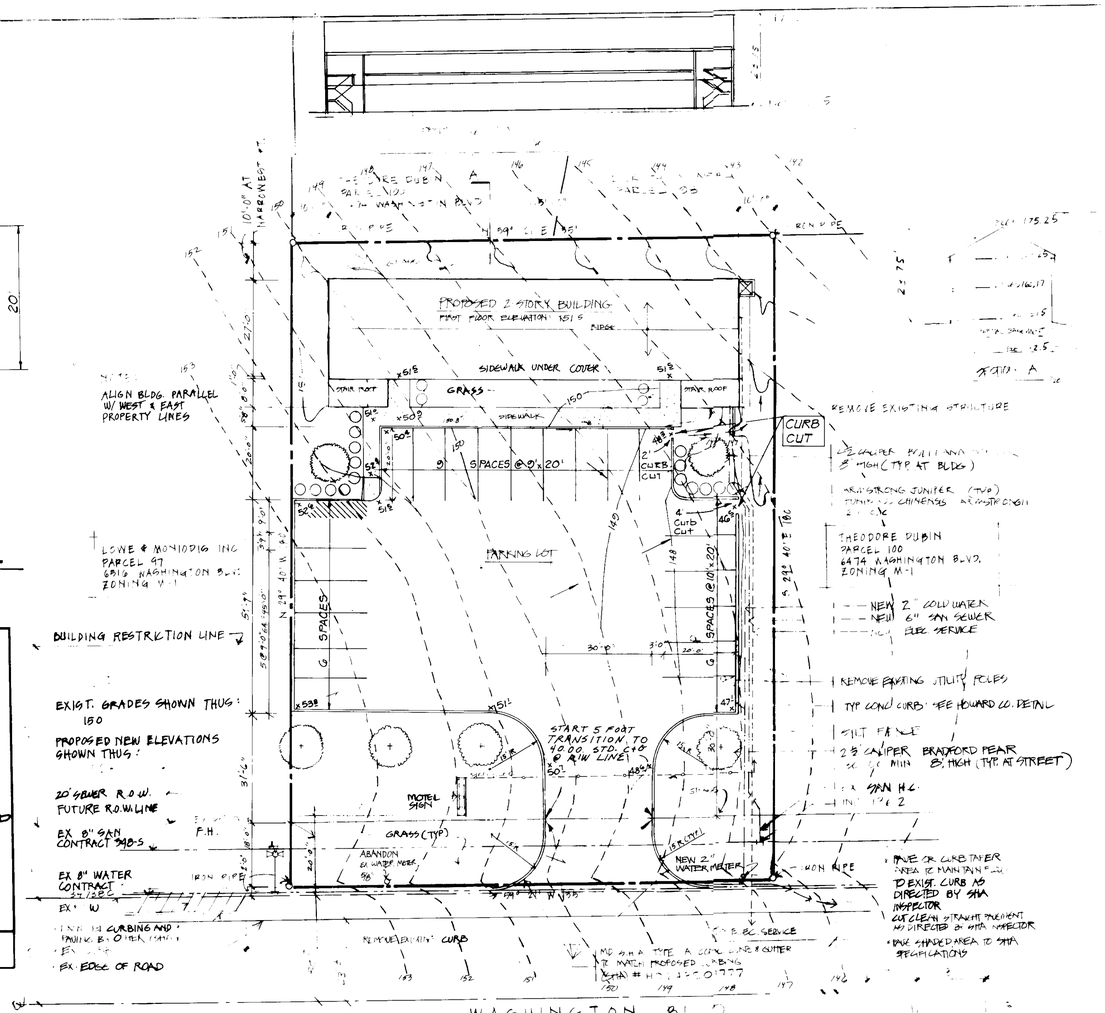


HANDICAPPED PARKING SPACE DETAIL

NO SCALE

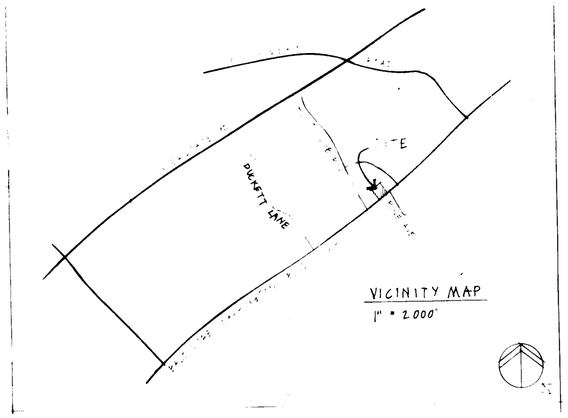


HANDICAPPED PARKING SIGN



SITE PLAN

1" = 20'-0"



VICINITY MAP

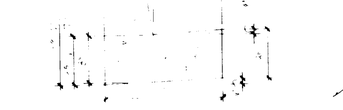
1" = 2000'

GENERAL NOTES

[illegible]

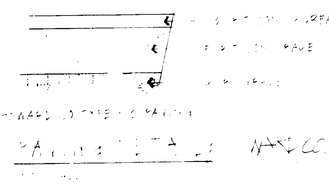
4. TOTAL AREA OF PARCEL .557 ACRES = 24,300 SF (150' X 180')
5. PROPOSED USE OF STRUCTURE HOTEL
6. [illegible] COVERAGE: 2530 SQ. FT. OR 11%
7. PARKING REQUIREMENTS: (2 PROVIDED)
   19 [illegible] SPACE PER UNIT — 19
   1 HANDICAPPED UNIT @ HANDICAPPED SPACE — (1)
   2 EMPLOYEES @ ONE PER 4 EMPLOYEES — 1
   TOTAL SPACES REQUIRED [illegible] — 20 SPACES (W/ 1 HANDICAPPED SPACE)
8. AREA OF BUILDING COVERAGE: 12,270 SQ. FT. OR 50.5% (4840 SQ FT PARKING (41%) + 1600 SQ FT ENTRY DRIVE (6%))
   TOTAL PAVED AREA OF PARKING LOT: 515 SQ. FT. OR 2.1% OF PARKING AREA
   TOTAL AREA OF IMPERVIOUS SURFACE: 9500 SQ. FT. OR 39.1%
9. [illegible] IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL VOL. II
10. [illegible] PUBLIC UTILITIES ARE TO BE [illegible]
11. [illegible] SHALL BE [illegible] AT CONTRACTOR'S EXPENSE.
12. [illegible] 555-0100 A MINIMUM OF 48 HOURS [illegible] CONSTRUCTION.
13. [illegible] FOR SHALL BE [illegible] BEFORE STARTING CONSTRUCTION.
14. [illegible] THE [illegible] 24 HOURS PRIOR TO COMMENCEMENT [illegible]
15. [illegible] TO BE CONSTRUCTED IN ACCORDANCE WITH TH[illegible]
16. [illegible] FOR THE HANDICAPPED [illegible]
17. TOTAL AREA OF BUILDING: 5314 SQ. FT. CONDITIONED SPACE
    a) FIRST LEVEL: 30 SQ. FT.
    b) SECOND LEVEL: 532 SQ. FT. + (830 SF EXT. WALK & STAIRS)
    c) BASEMENT: 254 SQ. FT.

[illegible] ADDED [illegible] IN ACCORDANCE WITH THE [illegible] SHALL BE [illegible] TO EXIST. CURB AS DIRECTED BY SHA INSPECTOR
CUT CLEAN STRAIGHT PAVEMENT AS DIRECTED BY SHA INSPECTOR
* PAVE SHADED AREA TO SHA SPECIFICATIONS



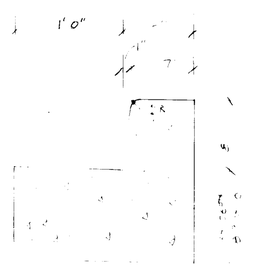
COMBINATION CURB & GUTTER

NO SCALE



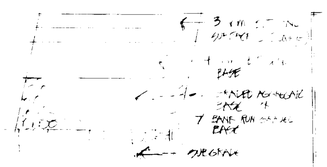
SHA PAVING DETAIL

NO SCALE



SHA TYPE A COMBINATION CURB & GUTTER

NO SCALE



SITE AVENUE

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 2-19-87

APPROVED: FOR PUBLIC, WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS.

HOWARD COUNTY DEPT. OF PUBLIC WORKS
DIRECTOR — DATE 9/3/87
CHIEF, BUREAU OF ENGINEERING — DATE 9-2-87

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS

HOWARD COUNTY HEALTH DEPT.
COUNTY HEALTH OFFICER — DATE 9-4-87

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
PLANNING DIRECTOR — DATE 9.11.87
CHIEF, DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION — DATE 9-8-87

STATE OF MARYLAND — SAMUEL P. FRAMM — No. 8237 — REGISTERED PROFESSIONAL ENGINEER

OWNER & DEVELOPER
NICKOLAOS A. PAPAVASILIS
9120 O'DONNELL ST.
BALTIMORE, MD. 21224

ENGINEER
FRAMM & ASSOCIATES
ENGINEERS • SURVEYORS
3210 SOUTHGREEN ROAD
BALTIMORE, MD. 21207

2/8/88: (1) ABANDON EX. W.M. (2) ADD NEW 2" W.M. (3) NEW 1½" COLD WATER CHANGED TO 2" (4) CONNECT TO EX. H.C.

ADDRESS CHART

PARCEL	STREET NAME	ADDRESS
PARCEL 99	WASHINGTON BLVD.	6012

TAX MAP	GRID	PARCEL	LOT	BLOCK	ZONE	TAX ACCOUNT
1064/681	7	M-1	30	1ST	99	2150532

D09

ARCHITECT:
SAO OISHI
211 MARYLAND AVE
BALTIMORE, MARYLAND 21218
301-727-2077

SDP-86-186

ARCHITECT
ISAO OISHI

Seal
ARCHITECTURAL REGISTRATION 3857-A MARYLAND

REVISIONS

No.	Date	Item

Title
"SITE DEVELOPMENT PLAN FOR PAPAVASILIS PROPERTY"

Project	8532
Scale	AS SHOWN
Date	3-6-86
Last Revision	

SHEET 1 OF 3

HGI Job No. 1606118

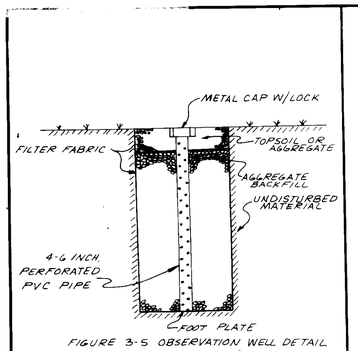
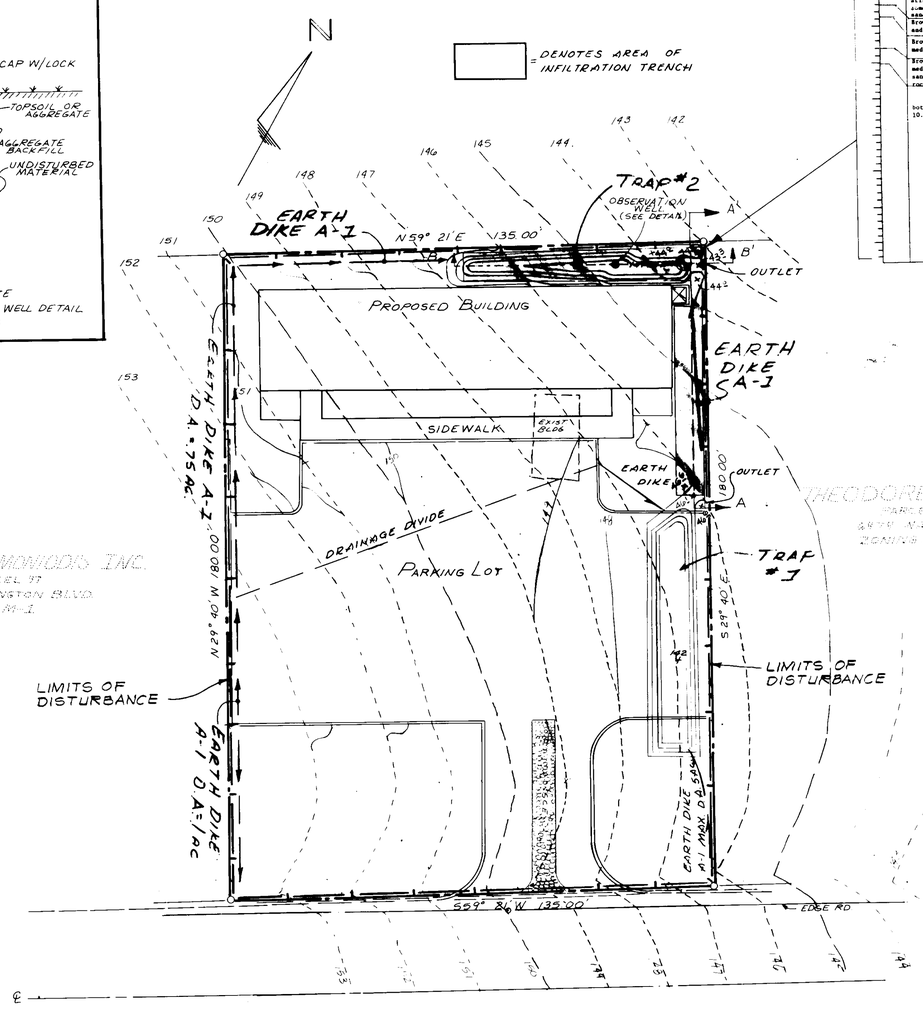
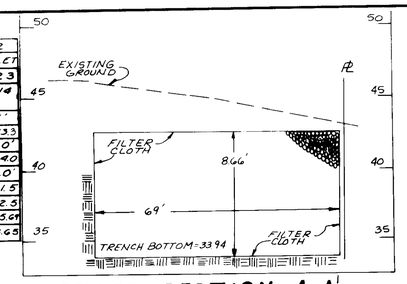


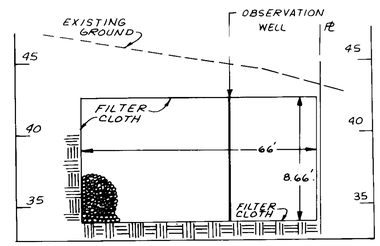
FIGURE 3-5 OBSERVATION WELL DETAIL (DNR - W R A)



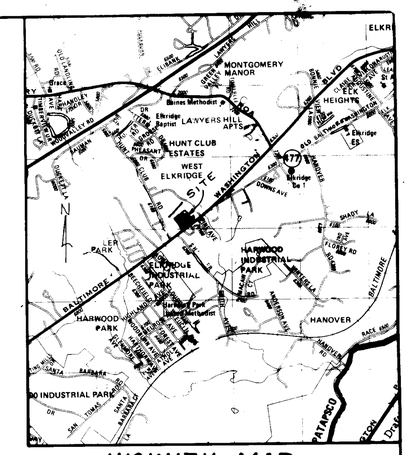
TRAP SCHEDULE		
TRAP #	1	2
TRAP TYPE	GRASS	OUTLET
DRAINAGE AREA	.32	.23
STORAGE REQ.	576	414
STORAGE PROV.		
WEIR LENGTH	4'	4'
OUTLET ELEV.	146.1	143.3
STORAGE DEPTH	3.5'	2.0'
EMBANKMENT TOP	146.6	144.0
EMBANKMENT WIDTH	4.0'	4.0'
BOTTOM ELEVATION	142.0	141.5
CLEANOUT ELEVATION	144.0	142.5
2 YEAR WSEL	145.6	143.69
10 YEAR WSEL	145.69	143.65



CROSS SECTION A-A'
SCALE: 1"=5' VERT.
1"=20' HOR.



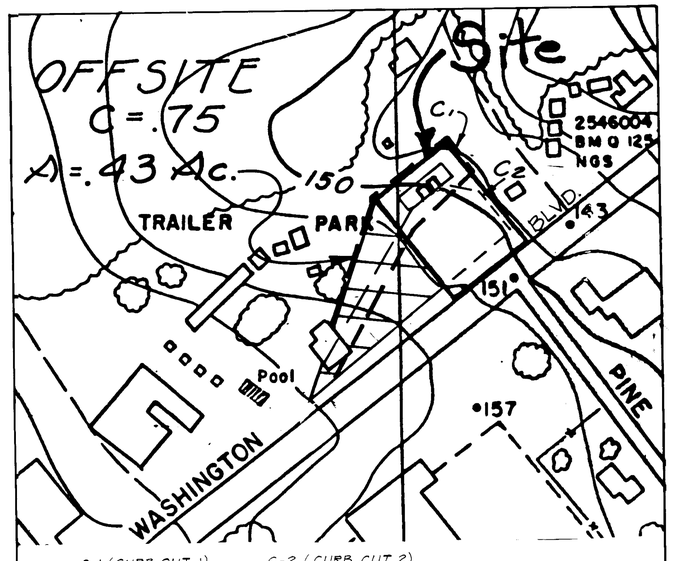
CROSS SECTION B-B'
SCALE: 1"=5' VERT.
1"=20' HOR.



VICINITY MAP
SCALE: 1"=2,000'

Sequence of Construction

1. Obtain grading permit
2. Install SCE .....1 day
3. Install traps, earth dikes.....2 days
4. Grade site.....1 week
5. Install utilities, building, curb & gutter and paving. Stabilize any areas not to be paved.
6. With approval of sediment control inspector, remove traps, stabilize or pave as necessary, install "infiltration trench" as shown.....1 week



C-1 (CURB CUT 1)
A = .20
C = .75
PI = 73
Z = M-1

C-2 (CURB CUT 2)
A = .53
C = .75
PI = 73
Z = M-1

DRAINAGE AREA MAP
SCALE: 1"=100'

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

SIGNATURE — DATE 9-2-87

U.S. SOIL CONSERVATION SERVICE

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

Stephen L. Huber — DATE 9/2/87
Approved Howard S.C.D.

OWNER'S/DEVELOPER'S CERTIFICATION

"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 — Date
Name — Title — Phone No.
Firm — Complete Address 3120 O'DONNELL STR.

ENGINEERS CERTIFICATE

"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."

John E.C. Patmore — 1/20/87 Date
JOHN E.C. PATMORE
Registered Professional Engineer # 8978

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 2-19-87

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 9-4-87

APPROVED: HOWARD COUNTY OFFICE OF PLANNING + ZONING
DIRECTOR — DATE 9-11-87
CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 9-8-87

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
DIRECTOR — DATE 9/3/87
CHIEF BUREAU OF ENGINEERING — DATE 9-2-87

KEUFFEL & ESSER 8-5786

KIDDE CONSULTANTS, INC.
ENGINEERS • PLANNERS • SURVEYORS
1100 WEST STREET / SUITE 100 / LAUREL, MD 20707
(Wash.) (301) 953-1821 / 792-8086 (Balt.)

STATE OF MARYLAND — JOHN E.C. PATMORE — REGISTERED PROFESSIONAL ENGINEER

ARCHITECT
ISAO OISHI
2111 MARYLAND AVE.
BALTIMORE MD. 21218
(301) 727-2077

OWNER / DEVELOPER
NICKOLAOS A. PAPAVASILIS
3120 O'DONNELL ST.
BALTIMORE MD. 21224

SEDIMENT CONTROL, & STORM WATER MANAGEMENT AND DRAINAGE PLAN

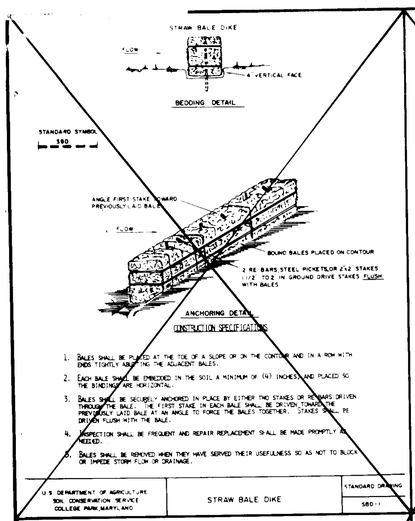
FOR PARCEL 99
PAPAVASILIS PROPERTY
1st ELECTION DIST — HOWARD COUNTY MD
TAX MAP: 38 — ZONED: M-1

Scale 1"=20'

SHEET NO. 2 of 3

SDP-86-186

KCI Job No. 1G8G118

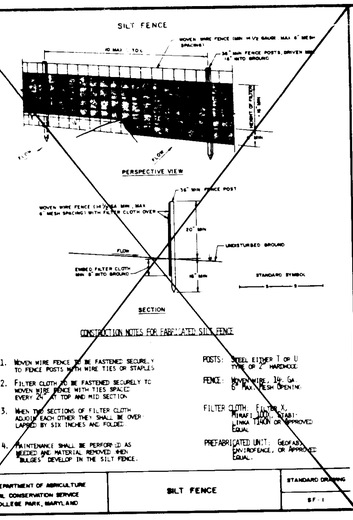


CONSTRUCTION SPECIFICATIONS

1. BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF (4) INCHES AND PLACED SO THE BINDINGS ARE HORIZONTAL.
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR REBARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
4. INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

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

STRAW BALE DIKE | STANDARD DRAWING SBD-I



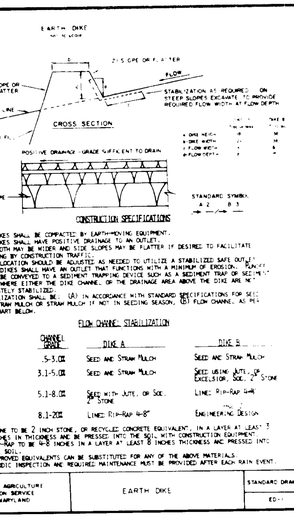
CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

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 OVERLAPPED BY SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN BULGES DEVELOP IN THE SILT FENCE.

POSTS: WOOD, EITHER 1" OR 1" DIA OF 2" HARDWOOD.
FENCE: WOVEN WIRE, 14 GA. 6" MAX MESH OPENING.
FILTER CLOTH: EITHER X, MIRAFI 140N, STABILINKA T140N OR APPROVED EQUAL.
PREFABRICATED UNIT: GEOFABRICS SAN-FENCE, OR APPROVED EQUAL.

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

SILT FENCE | STANDARD DRAWING SF-I



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. FLOW SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN WHERE EITHER THE DIKE CHANNEL OF 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.

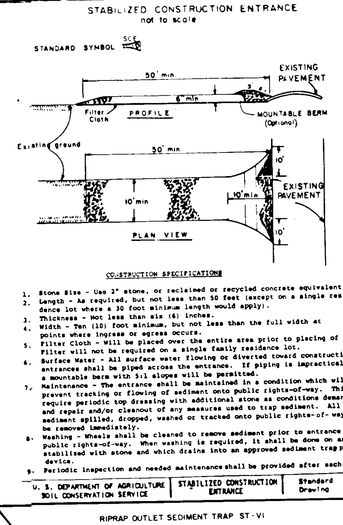
FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL 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 G-48
4	8.1-20%	LINED RIP-RAP G-88	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 6-8 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-I

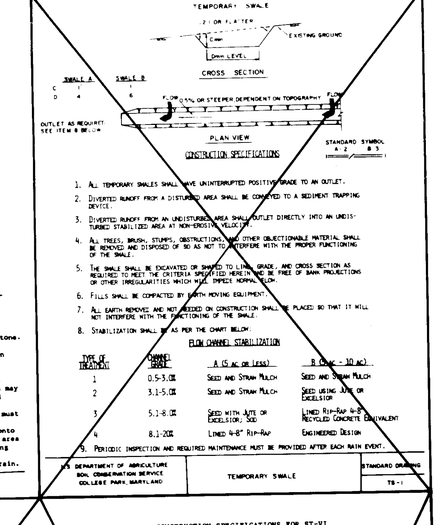


CONSTRUCTION SPECIFICATIONS

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 entrance 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 maintenance shall be provided after each rain.

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STABILIZED CONSTRUCTION ENTRANCE | Standard Drawing



CONSTRUCTION SPECIFICATIONS

1. ALL TEMPORARY SWALES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
2. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
3. DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.
4. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE SWALE.
5. THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
6. FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.
7. ALL EARTH REMOVED AND NOT NEEDED ON CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE SWALE.
8. STABILIZATION SHALL BE AS PER THE CHART BELOW.

FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL GRADE	A (5 AC OR LESS)	B (5 AC - 10 AC)
1	0.5-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0%	SEED AND STRAW MULCH	SEED USING JUTE OR EXCELSIOR
3	5.1-8.0%	SEED WITH JUTE OR EXCELSIOR, SOD	LINED RIP-RAP G-48 RECYCLED CONCRETE EQUIVALENT
4	8.1-20%	LINED G-88 RIP-RAP	ENGINEERED DESIGN

9. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

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

TEMPORARY SWALE | STANDARD DRAWING TS-I

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 schedules:

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.

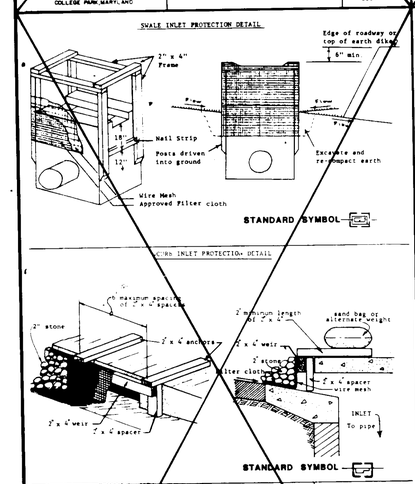
Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

SEDIMENT CONTROL NOTES

1) A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits pror 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 55 Acres
   Area Disturbed 55 Acres
   Area to be roofed or paved 35 Acres
   Area to be vegetatively stabilized 20 Acres
   Total Cut 7250 Cu. yds
   Total Fill 0 Cu. yds
   Offsite waste/borrow area location TO BE PROVIDED
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.

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.

NOTE: FOR SEQUENCE OF CONSTRUCTIONS, SEE SHEET 2 OF 3



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

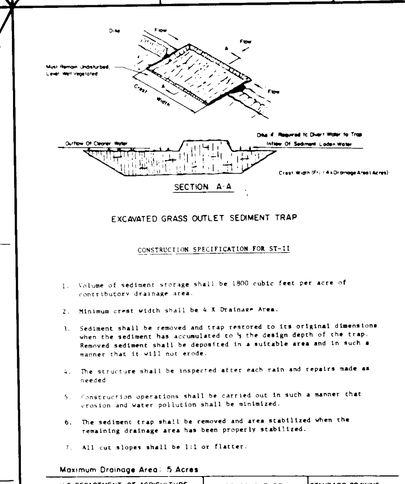
Construction Specifications

Materials

A. Wooden frame is to be constructed of 2"x4" construction grade lumber.
B. Plywood is to be a minimum thickness of 1/4" construction grade lumber.

Installation

1. Cut plywood to extend a minimum of 6" past throat along curb.
2. Attach to anchors in a secure manner which will insure a water tight fit against throat.
3. Brace securely using sandbag or alternate weight. If not watertight, use approved filter cloth under plywood and attach securely.



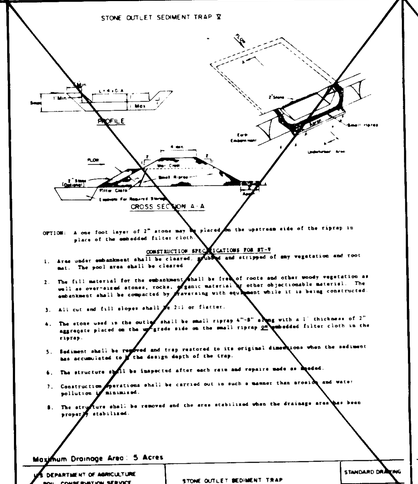
EXCAVATED GRASS OUTLET SEDIMENT TRAP

CONSTRUCTION SPECIFICATION FOR ST-II

1. Volume of sediment storage shall be 1800 cubic feet per acre of contributory drainage area.
2. Minimum crest width shall be 4 X Drainage Area.
3. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to ½ 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.
4. The structure shall be inspected after each rain and repairs made as needed
5. Construction operations shall be carried out in such a manner that erosion and water pollution shall be minimized.
6. The sediment trap shall be removed and area stabilized when the remaining drainage area has been properly stabilized.
7. All cut slopes shall be 1:1 or flatter.

Maximum Drainage Area: 5 Acres

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	GRASS OUTLET SEDIMENT TRAP	STANDARD DRAWING ST-II



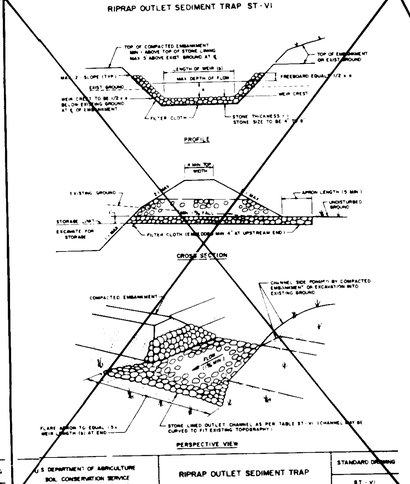
OPTION: A new foot layer of 2" stone may be placed on the upstream side of the riprap in place of the embedded filter cloth.

CONSTRUCTION SPECIFICATIONS FOR ST-V

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 downgrade 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-V



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

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 roots or other woody vegetation as well as over-sized 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.
3. All fill slopes shall be 2:1 or flatter; cut 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 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.
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 stone or a one (1) foot thick layer of two (2) inch or other 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.

Riprap Outlet Sediment Trap

ST-VI (for Stone Lined Channel)

Contributing Drainage Area (Acres)	Depth of Channel (Feet)	Length of Weir (b) (Feet)
1	1.5	4.0
2	1.5	5.0
3	1.5	6.0
4	1.5	9.0
5	1.5	12.0
6	1.5	14.0
7	1.5	16.0
8	2.0	10.0
9	2.0	10.0
10	2.0	12.0
11	2.0	14.0
12	2.0	14.0
13	2.0	16.0
14	2.0	16.0
15	2.0	18.0

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

SIGNATURE — DATE 9-2-87

U.S. SOIL CONSERVATION SERVICE

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

Approved Howard S.C.D. — DATE 9/2/87

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 2-19-87

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

DIRECTOR — DATE 9/3/87
CHIEF BUREAU OF ENGINEERING — DATE 9-2-87

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

COUNTY HEALTH OFFICER — DATE 9-4-87

APPROVED: HOWARD COUNTY OF PLANNING AND ZONING.

DIRECTOR — DATE 9.11.87
CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 9-8-87

STATE OF MARYLAND — JOHN E. C. PALMORE — PROFESSIONAL ENGINEER — No. 8978

OWNER/DEVELOPER:
NICKOLAOS A. PAPAVASILIS
3120 O'DONNELL ST.
BALTIMORE MD. 21224

SEDIMENT CONTROL DETAIL SHEET

OWNER'S / DEVELOPER'S CERTIFICATION

"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 — Date 1/21/87
Name NICHOLAOS PAPAVASILIS — Title — Phone No. —
Firm — Complete Address 3120 O'DONNEL STE BALTO MD 21224

ENGINEER'S CERTIFICATE

"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."

JOHN E.C. PALMORE — Date 1/20/87
Registered Professional Engineer # 8978

KIDDE CONSULTANTS, INC.
ENGINEERS • PLANNERS • SURVEYORS
1100 WEST STREET / SUITE 100 / LAUREL, MD 20707
(Wash.) (301) 953-1821 / 792-8086 (Balt.)

PAPAVASILIS PROPERTY
PARCEL 99
1st ELECTION DISTRICT — HOWARD COUNTY MD.
TAX MAP 38 — ZONED M-1

Drafting	DATE	REVISIONS	SHEET 3 OF 3	DATE OCT 1986	JOB NUMBER
Check				SCALE AS SHOWN	1GBG118
Design					
Check					

SDP-86-186