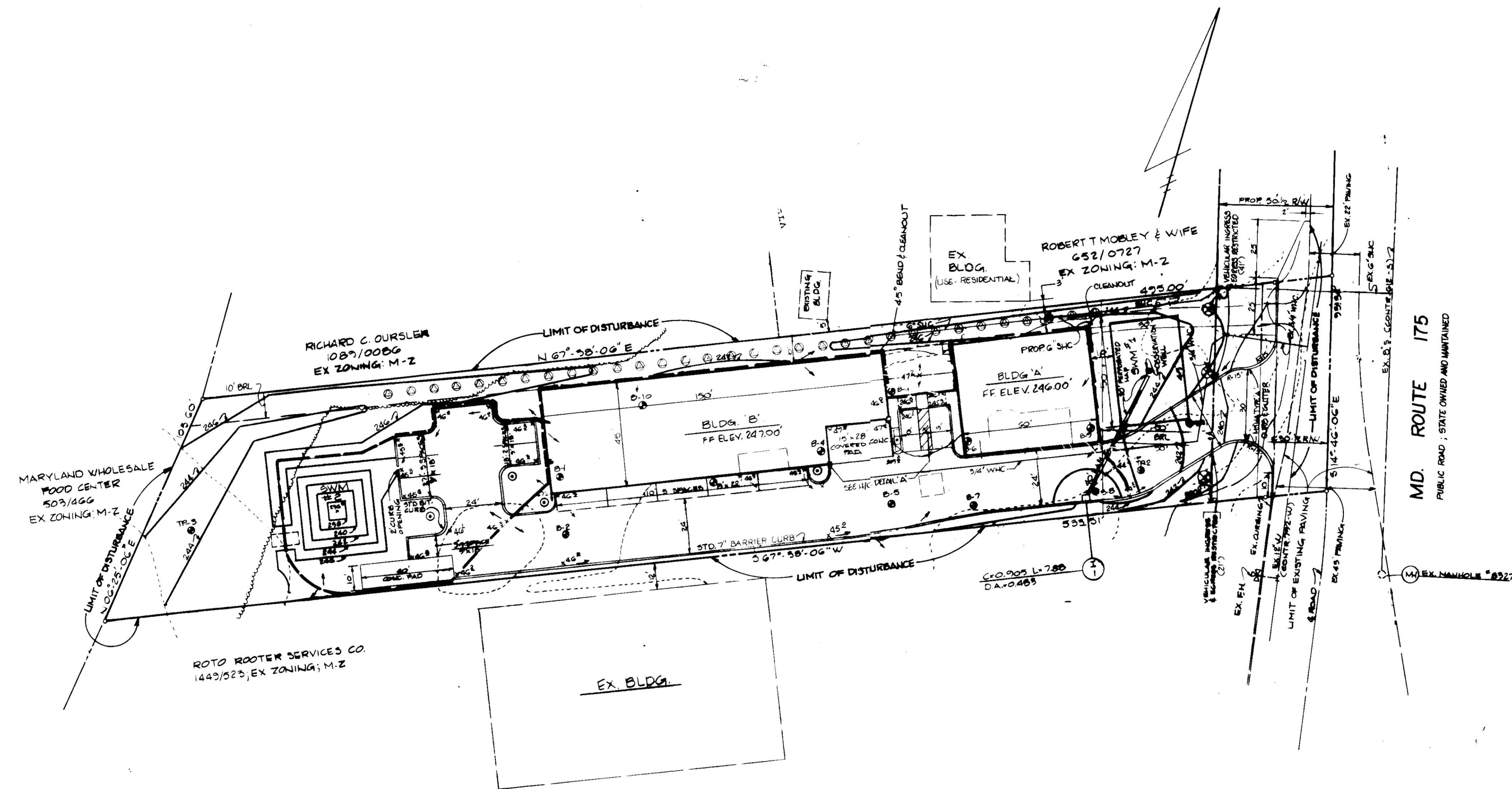
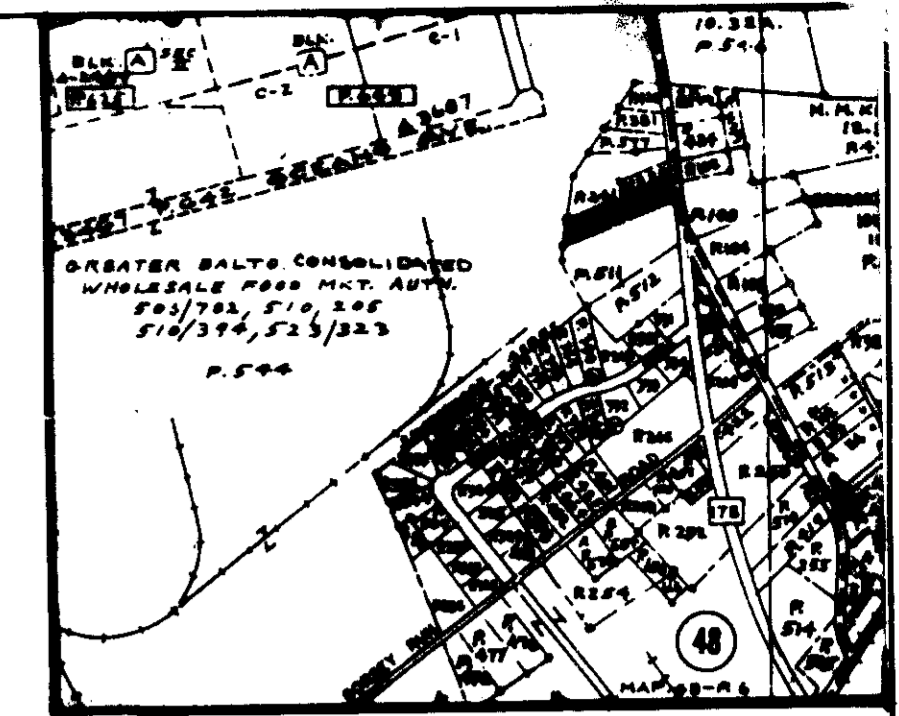
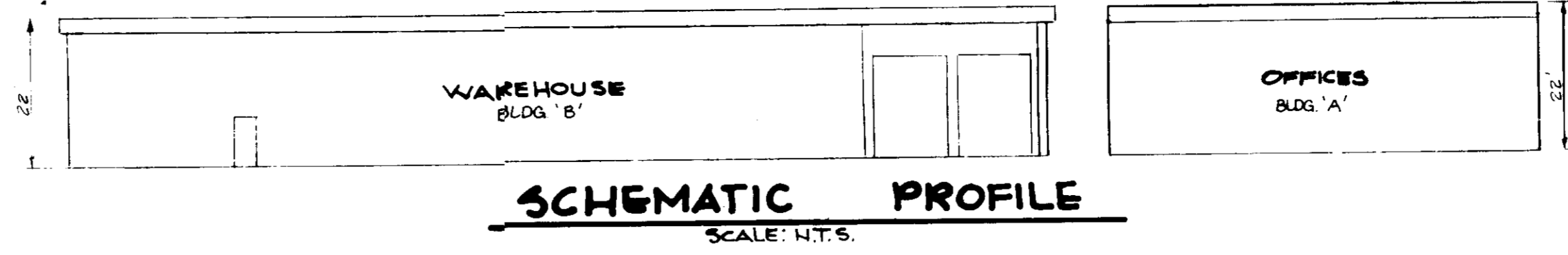


LANDSCAPING		SCHEDULE		
SYMBOL	QNTY	BOTANICAL NAME	COMMON NAME	SIZE
⊙	5	PRUNUS SPP	FLOWING CHERRY	6" B"
⊙	3	QUERCUS SP	OAK	2 1/2" CAL.
⊙	32	PAULS STROBUS	EASTERN WHITE PINE	2 1/2" CAL.



- GENERAL NOTES:**
- Tax Map Block: 21 Parcel: 421
  - Deed Reference: 1545 / 453
  - Existing Zoning: M-2
  - Proposed Site Uses: Roofing Company (Office & Warehouse)
  - Area of Site: 0.985 Acres or 42922 Sq. Ft.
  - All construction and materials shall be in accordance with the Howard County Road Construction Code and Specifications
  - Utilities to be Utilized:  
Water - Public  
Sewer - Public
  - All utility driveways and parking areas are private.
  - Maryland Route 175 (Waterloo Road), Public Road
  - Any damage to a county owned right-of-way shall be corrected at the developer's expense.
  - Contractor to verify location of all underground utilities prior to beginning work.
  - Contractor to notify Blue Utility at 1-800-6100 at least five (5) days prior to beginning construction.
  - The contractor or developer shall contact the Construction Inspections Division of Howard County at 792-7272 at least 24 hours prior to starting construction.
  - Boundary shown hereon was supplied by owner and is based on a boundary survey prepared by T. & T. Surveying in November, 1986.
  - Topography shown hereon was supplied by owner and is based on a topographic survey field run by T. & T. Surveying in November, 1986.

- SITE ANALYSIS:**
- Area of Parcel: 0.985 Acres or 42922 sq. ft.
  - Existing Zoning: M-2
  - Floor Space Per Use:  
Building A: 2000 sq. ft. office space  
Building B: 1330 sq. ft. warehouse space
  - Maximum Number of Employees Per Use:  
Offices: 10 employees  
Warehouse: 3 employees
  - Open Space to Remain on Site:  
20,339 sq. ft. or 47.4 %
  - Building Coverage of Site:  
4,330 sq. ft. or 21.7 %
  - Landscaped Islands:  
Parking area- 12550 sq. ft.  
Landscaped islands- 900 sq. ft. or 7.17 %
  - Denotes exterior lighting.
  - All exterior lighting shall be directed / reflected away from adjacent public rights-of-way and any residentially zoned properties.
  - Parking Requirements:  
10 office employees @ 7 spaces per 10 employees = 7 spaces  
3 warehouse employees @ 1 space per employee = 3 spaces  
Total Req'd Parking: 10 spaces
  - Parking Provisions:  
13 Spaces including 1 Handicapped space

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.

U.S. SOIL CONSERVATION SERVICE DATE

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

SOIL CONSERVATION DISTRICT DATE

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

County Health Officer: *Joseph Boyce* 4-9-87 DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

Planning Director: *Thomas L. Harris* 4-10-87 DATE

DEVELOPMENT AND ZONING ADMINISTRATION

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

Director: *William E. ...* 4-10-87 DATE

CHIEF, BUREAU OF ENGINEERING *John A. ...* 4-10-87 DATE

DIVISION OF PLANNING AND ZONING

APPROVED

3-18-87

*M. J. ...*

**DEVELOPER'S CERTIFICATE**

I 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 EMPLOYED 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 INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

DEVELOPER: *John A. ...* DATE: 4/1/87

**ENGINEER'S CERTIFICATE**

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

DATE: 3-20-87

DATE	DESCRIPTION	BY
3-27-87	REVISIONS PER APPROVAL COMMENTS FROM HQCO	JAB
3-28-87	SHIFT BLDG'S 4 FT. SOUTH, SHOW PLANTED SLUPLIP	JCO
	DESCRIPTION	
	REVISIONS	



ADDRESS CHAIN	
LOT NUMBER	STREET ADDRESS
PARCEL 421	7798 WATERLOO ROAD (MD. RTE 175)

SUPERVISOR BLUE	
PLAT # OR LOT	BLOCK #
545/455	21
ZONE	TAX/USE PER
M-2	6%
BLDG. CLASS	CHARGE TR.
SIXTH	6064
WATER CODE	SEWER CODE
801	3080000

TITLE	
SITE DEVELOPMENT PLAN	
PROJECT: J&R ROOFING	
LOCATION: TAX MAP: 45, BLOCK: 21, PARCEL: 421	
COUNTY	CO. MD.
HOWARD	
SCALE:	DESIGNED BY:
1"=30'	JOE HASON
FIELD BOOK:	DRAWN BY:
	JAB
PAGE NO.:	CHECKED BY:
22429	M.W./G.B.
JOB NO.:	DATE:
	DEC 1986
DRAWING NO.:	
1 OF 3	

**OWNER / DEVELOPER**

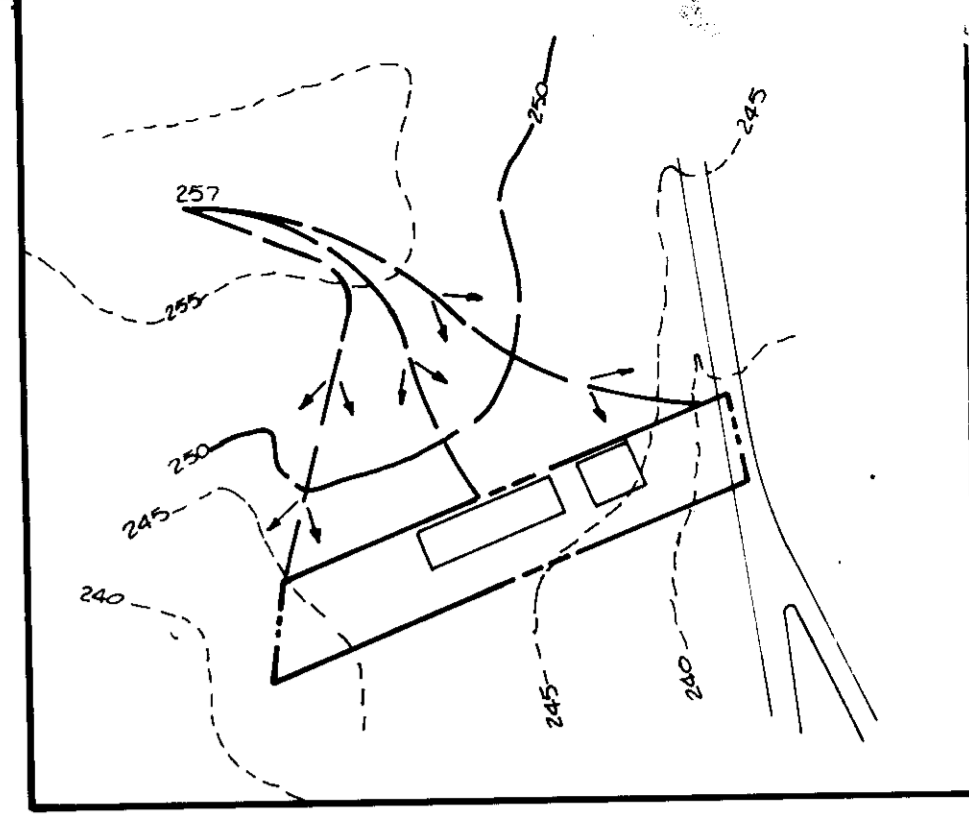
J&R ROOFING  
14440 CHERRY LANE COURT  
SUITE 104  
LAUREL, MD. 20707

**boender associates inc.**  
consulting engineers  
land surveyors  
land planners

COURTHOUSE SQUARE  
3865 ELLICOTT MILLS DRIVE  
ELLICOTT CITY, MD. 21045  
1301 465-7777

SDP-87-127

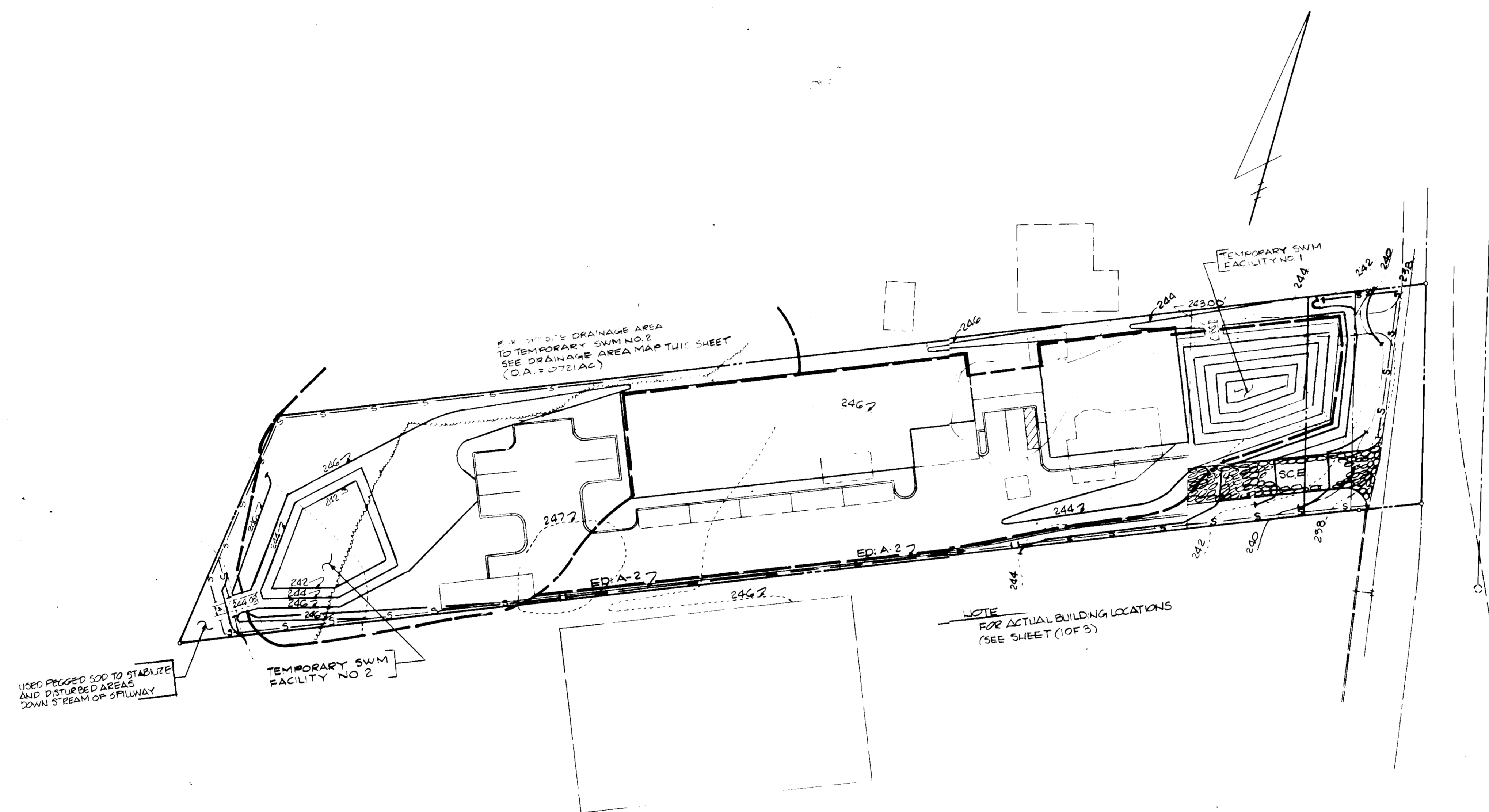
SEDIMENT TRAP SCHEDULE									
TRAP ID	SCS REQ'D STORAGE	TOTAL 2YR RECD STORAGE	TOTAL 10YR RECD STORAGE	STORAGE PROVIDED	SPILLWAY ELEV.	SPILLWAY WIDTH	BOTTOM AREA	BOTTOM ELEV.	CLEANOUT ELEV.
TEMPORARY SWM #1	1192 CF	6224 CF	9789 CF	11,360 CF	243.00	4.0'	1260 SF	232.0	234.27
TEMPORARY SWM #2	1748 CF	4710 CF	5550 CF	5358 CF	244.03	4.0'	83 SF	241.50	242.15



OFFSITE DRAINAGE AREA MAP  
SCALE: 1" = 200'

CONSTRUCTION SEQUENCE

1. Obtain grading permit and building permit.
2. Notify the Howard County Bureau of Licenses Inspections and Permits, and the Construction Inspections/Surveys Division at least 24 hours prior to beginning grading operations.
3. Clear and grub as necessary to install temporary sediment control devices.....2 days
4. Install temporary sediment control devices as directed by the sediment control inspector (S.C.E., S.F., E.B., temporary sediment traps 1 & 2).....1 week
5. Clear and grub site as outlined in Section 5.1 of the Subsurface Exploration and Geotechnical Evaluation for this site prepared by Atec Associates, Inc. dated November 26, 1986.....1 week
6. Rough grade site. Maintain positive drainage to sediment traps at all times.....3 days
7. Apply temporary stabilization to all disturbed areas where construction is not imminent.....3 days
8. Construct Buildings.....2 months
9. Construct 1 - 1 and the first 40 feet of the storm drain to SWM No. 1. Block 1 - 1.....1 week
10. Bring all paved areas to subgrade. Do not bring paved areas east of Building "A" to subgrade.....2 days
11. Install all curbing as shown on sheet 2 of 3 of these plans. Do not install any curbing east of Building "A" at this time.....1 week
12. Apply temporary stabilization to any areas not to be paved at this time.....2 days
13. Pave driveway and parking areas. Do not pave any areas east of Building "A" at this time. Use paving procedures as outlined in Section 5.5 of the Subsurface Exploration and Geotechnical Evaluation for this site prepared by Atec Associates, Inc. dated November 26, 1986.....1 week
14. Convert temporary sediment trap no. 1 into S.W.M. no. 1 with approval of the sediment control inspector by:
  - A. Pump any standing water onto a stabilized outfall.
  - B. Remove any sediment and deposit it on a site with approved sediment control measures.
  - C. Construct S.W.M. no. 1 and the remaining 20 feet of 15" perforated storm drain.....2 weeks
  - D. Remove the block from 1 - 1.....2 weeks
15. Apply temporary stabilization to any remaining disturbed areas.....3 days
16. Convert temporary sediment trap no. 2 into S.W.M. no. 2 with approval of the sediment control inspector by:
  - A. Pump any standing water onto a stabilized outfall.
  - B. Remove any sediment and deposit it on a site with approved sediment control measures.
  - C. Construct S.W.M. no. 2.....2 weeks
17. Bring remaining areas to be paved to subgrade.....2 days
18. Install remaining curbing.....1 week
19. Pave remaining driveway and widening areas.....1 week
20. Fine grade remainder of site.....2 days
21. Apply permanent stabilization to any disturbed areas as directed by the sediment control inspector.....2 days
22. With approval of the sediment control inspector, remove remaining sediment control devices.....3 days
23. As directed by the sediment control inspector, apply permanent stabilization to all remaining disturbed areas.....1 day



MD. ROUTE 175  
PUBLIC ROAD - STATE OWNED AND MAINTAINED

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.  
DATE: 4-2-87  
U.S. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT IS APPROVED SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
DATE: 4/2/87  
SOIL CONSERVATION DISTRICT

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

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.  
DATE: 4-10-87  
PLANNING DIRECTOR

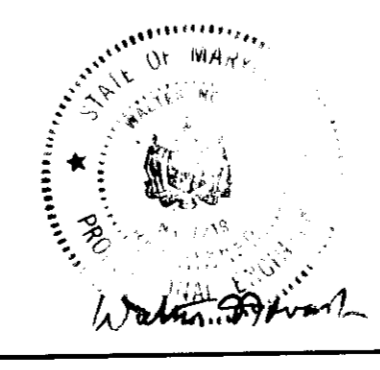
APPROVED: DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE: 3-18-87  
M.D. / J.M.M.

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.  
DATE: 4-2-87  
DIRECTOR

DEVELOPER'S CERTIFICATE  
I 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 INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.  
DEVELOPER: [Signature] DATE: 1/6/87

ENGINEER'S CERTIFICATE  
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.  
DATE: 3-30-87

DATE	DESCRIPTION	BY



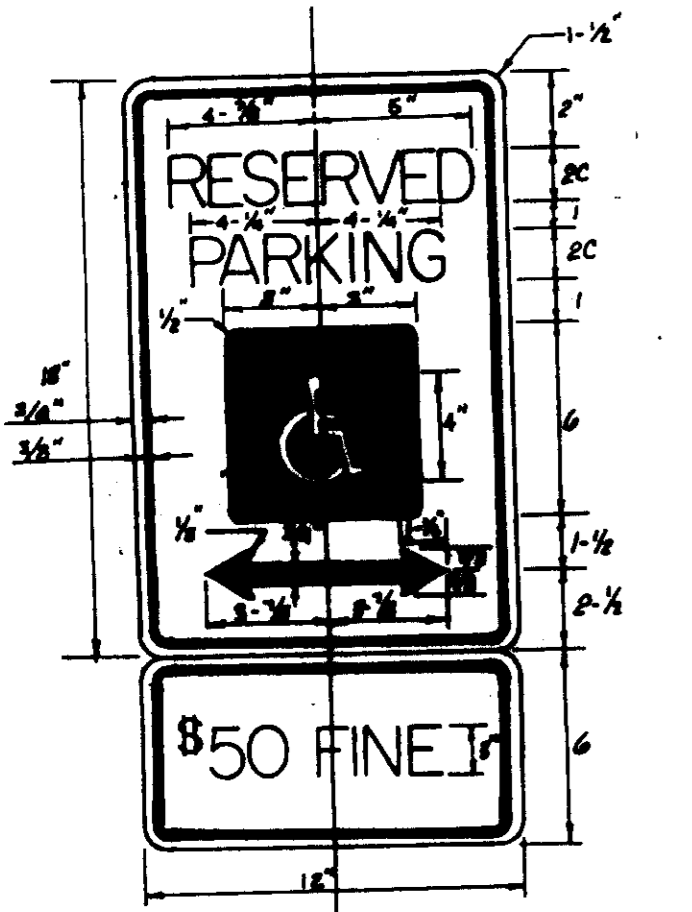
OWNER / DEVELOPER  
J&R ROOFING  
14440 CHERRY LANE COURT  
SUITE 104  
LAUREL, MD. 20707

TITLE: SEDIMENT CONTROL PLAN  
PROJECT: J&R ROOFING  
LOCATION: TAX MAP: 45, BLOCK: 21, PARCEL: 421  
PLATH: ELECTION DISTRICT: HOWARD CO MD  
SCALE: DESIGNED BY: DRAWN BY: CHECKED BY: DATE: 4-2-87  
FIELD BOOK: TABLE NO: JOB NO: DRAWING NO: 2-5

boender associates  
consulting engineers  
land surveyors  
land planners

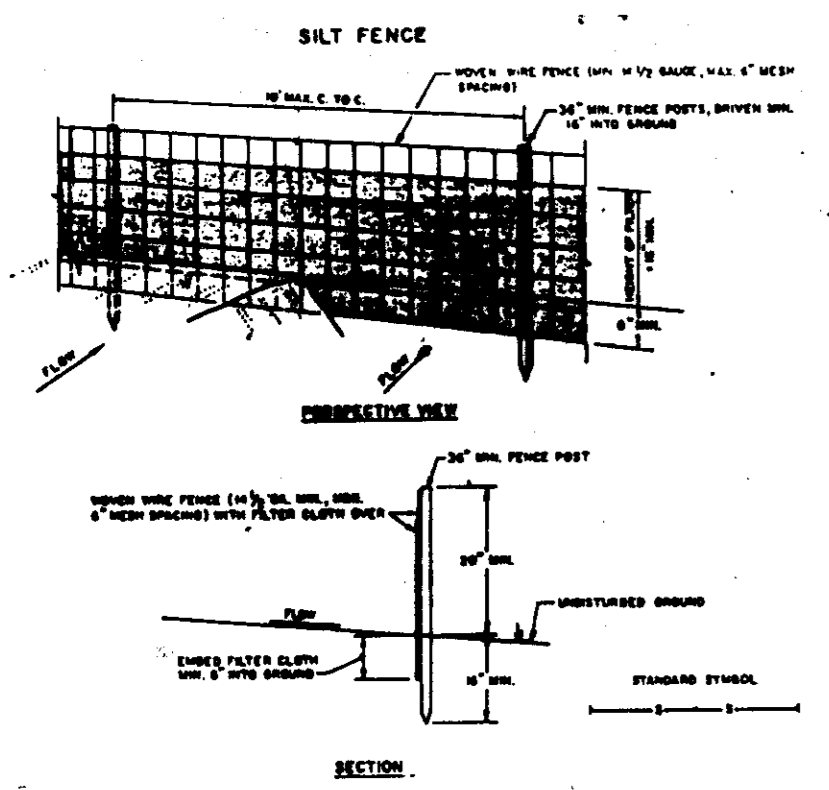
SDP-87-127





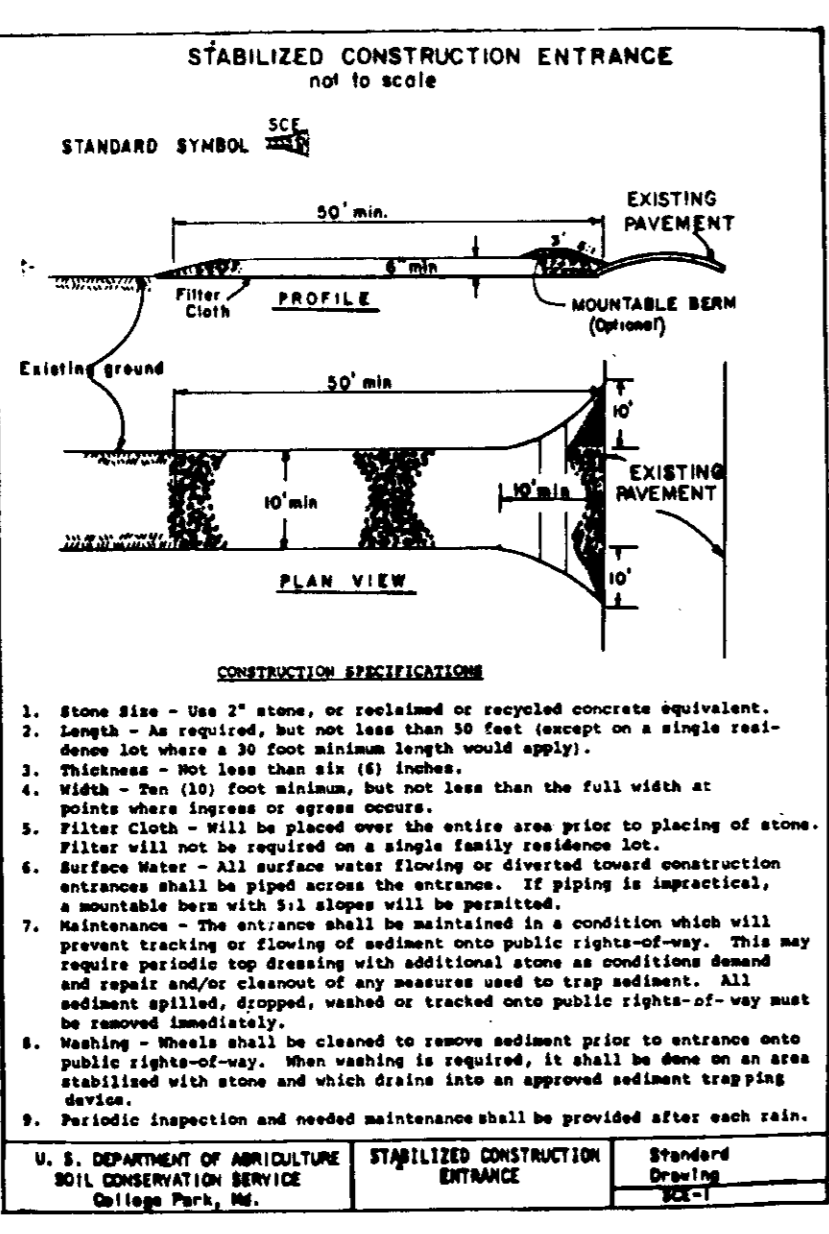
**HANDICAPPED PARKING SIGN**

- NOTES GOVERNING \$50 FINE SIGN AS PER HOWARD CO. BILL NO. 58-84.
- SIGN TO UTILIZE AN ALUMINUM BLANK 6"X18"X.008" THICK WITH TWO (2) SINGLE POST MOUNTING HOLES.
  - THE TEXT AND BORDER SHALL BE STANDARD GREEN TO MATCH THAT ON R7-B, AND THE BACKGROUND SHALL BE REFLECTIVE WHITE. TEXT SHALL BE 3" HIGH.
  - FINE SIGN TO BE HUNG AT A MINIMUM HEIGHT OF 7" AND A MAXIMUM HEIGHT OF 10".
  - NOT TO SCALE.

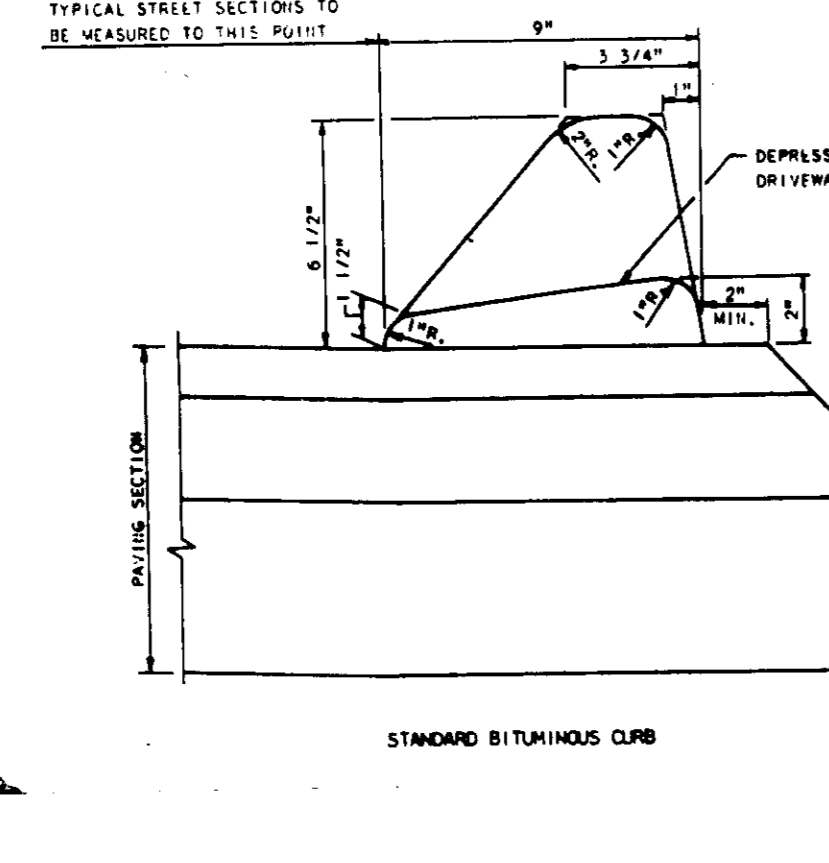


**CONSTRUCTION NOTES FOR FABRICATED SILT FENCE**

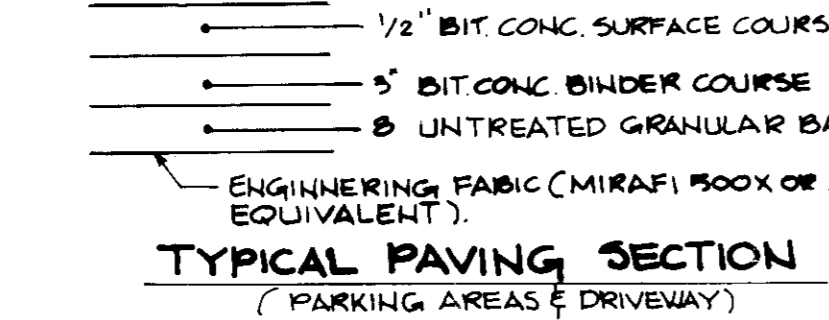
- WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
- FILTER CLOTH TO BE FASTENED SECURELY TO WIRE FENCE WITH TIED SPINDS EVERY 2' AT TOP AND MID SECTION.
- WIRE NET SECTION OF FILTER CLOTH SHOULD BE OVERLAPPED BY SIX INCHES AND FOLDED.
- MAINTENANCE SHALL BE PERFORMED AS NECESSARY TO REMOVE DEBRIS AND TO REPLACE WEAR OR DAMAGED MATERIAL.



**STABILIZED CONSTRUCTION ENTRANCE**



**TYPICAL PAVING SECTION (PARKING AREAS & DRIVEWAY)**



**M.S.H.A. CURB & GUTTER DETAIL**

**PERMANENT SEEDING NOTES**

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

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

**Soil Amendments:** To 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 400 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding.
- 2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (28 lbs/1000 sq ft) before seeding.

**Seeding:** For the periods March 1 thru April 30, and August 1 thru October 15, seed with 40 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 1 lb per acre (0.5 lbs/1000 sq ft) of vernal ryegrass. 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) seed with 40 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

**Mulching:** Apply 1/4 to 2 tons per acre (10 to 90 lbs/1000 sq ft) of untreated small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallon per acre (8 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallon per acre (8 gal/1000 sq ft) for anchoring.

**Maintenance:** Inspect all seeded areas and make needed repairs, replacement and reseedings.

**TEMPORARY SEEDING NOTES**

Apply to graded or cleared areas likely to be redisturbed where a short-term vegetative cover is needed.

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

**Soil Amendments:** Apply 400 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft).

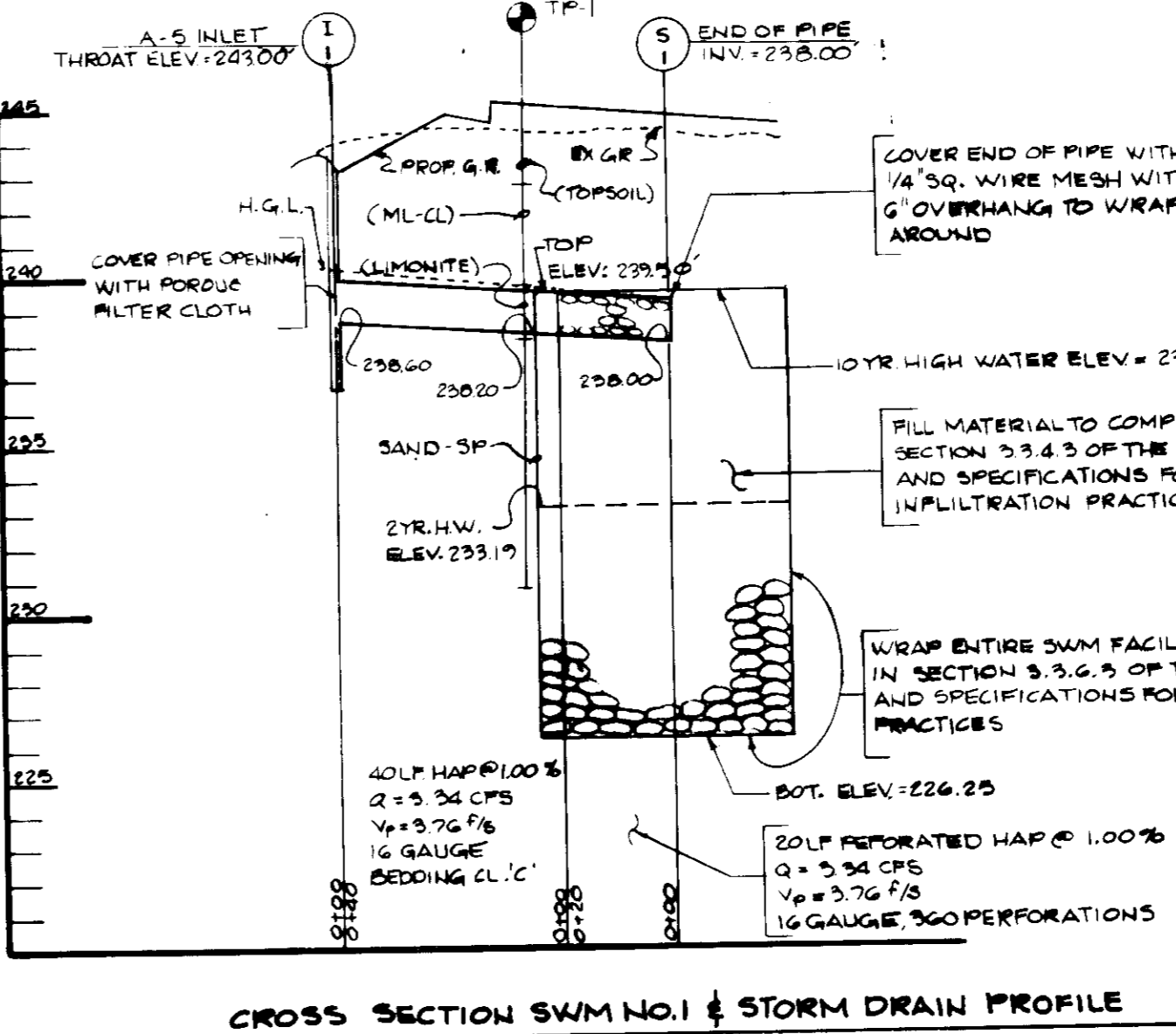
**Seeding:** For periods March 1 thru April 30 and from August 15 thru November 15, seed with 25 lbs/acre of annual ryegrass (0.25 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs per acre of vernal ryegrass (0.3 lbs/1000 sq ft). For the period November 16 thru February 28, protect 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 1/4 to 2 tons per acre (10 to 90 lbs/1000 sq ft) of untreated small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal per acre (8 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gal per acre (8 gal/1000 sq ft) for anchoring.

Refer to the 1983 HARTLAND STANDARD AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS OF SEEDING.

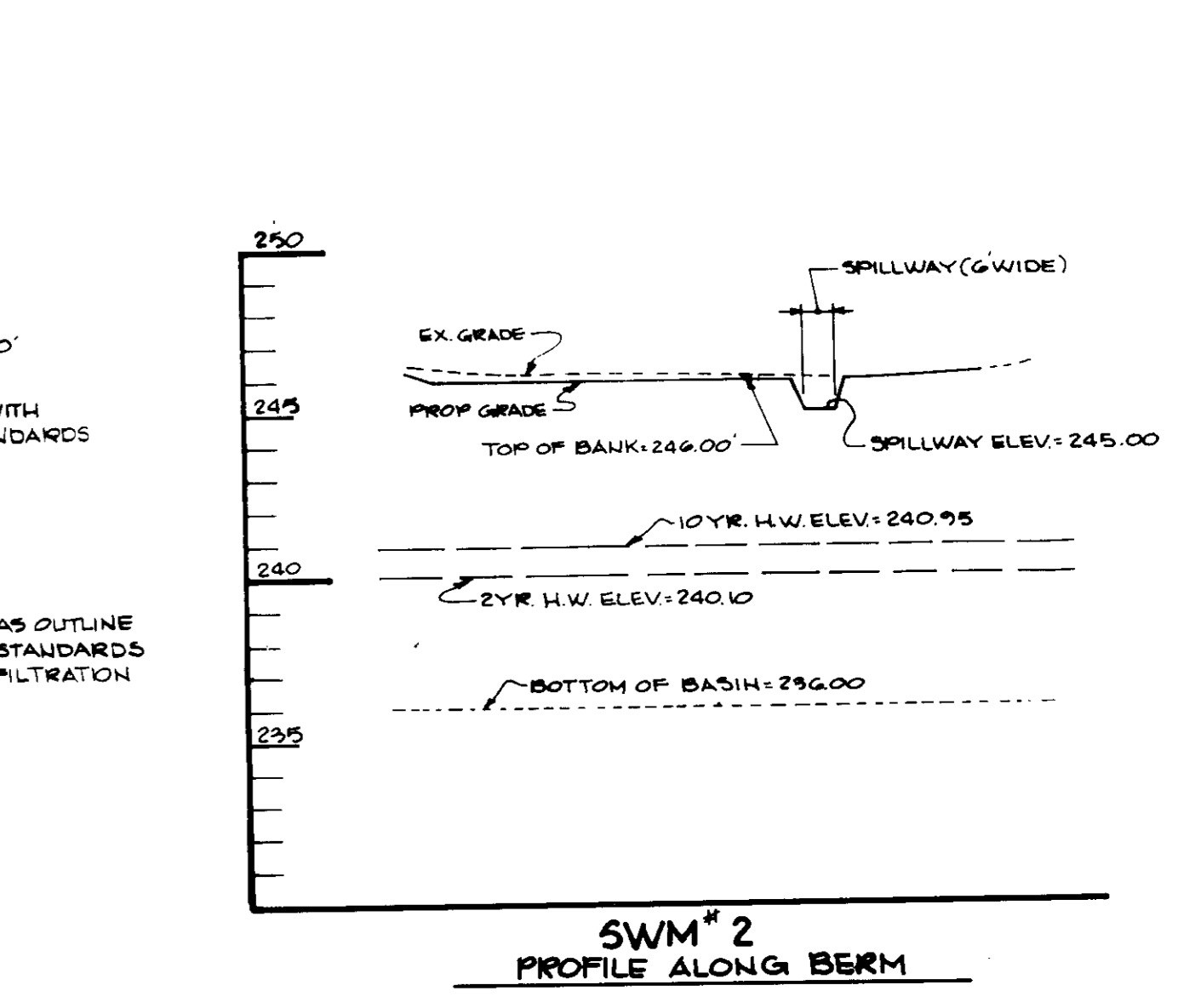
**SEDIMENT CONTROL NOTES**

- 1) A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permitting prior to the start of any construction. (892-2437).
- 2) All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformity with the 1983 HARTLAND STANDARD AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- 3) Following initial soil disturbance or redistribution, permanent or temporary stabilization practices shall be completed within 7 calendar days for all areas to be stabilized. If the 7 day period is not completed, the contractor shall be responsible for the stabilization of the area on the project site.
- 4) All sediment traps/basins shall be located in vertical slopes, located around their perimeter in accordance with Part 1, Chapter 12 of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- 5) All disturbed areas must be stabilized within the time period specified above by accordance with the 1983 HARTLAND STANDARD AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT VEGETATION AND SEDIMENT CONTROL. Temporary seeding (Sec. 30) and mulching (Sec. 32) temporary seeding (Sec. 31) and (Sec. 34). Temporary seeding (Sec. 30) and mulching (Sec. 32) temporary seeding (Sec. 31) and (Sec. 34). Temporary seeding (Sec. 30) and mulching (Sec. 32) temporary seeding (Sec. 31) and (Sec. 34). Temporary seeding (Sec. 30) and mulching (Sec. 32) temporary seeding (Sec. 31) and (Sec. 34).
- 6) All sediment control structures are to remain in place and are to be maintained in accordance with the condition noted herein for their removal has been obtained from the Howard County Sediment Control Inspector.
- 7) Site Analyst: Total Area of Site: 5.00 Acres. Area to be Seeded: 5.00 Acres. Area to be Stabilized: 5.00 Acres. Total Cost: \$100,000.00. Official name/borrow area location: [Blank].
- 8) Any sediment control practice which is disturbed by the contractor shall be replaced by the contractor at the same time and in the same manner as it was disturbed. If additional sediment controls are to be provided, if approved by the Howard County Sediment Control Inspector.
- 9) On all sites with disturbed areas in excess of 2 acres, approved by the inspection agency shall be retained upon completion of installation of all sediment control structures, but before proceeding with any other earth disturbance or grading. Before accepting or breaking, inspection approval may not be authorized until this initial approval by the inspection agency is made.



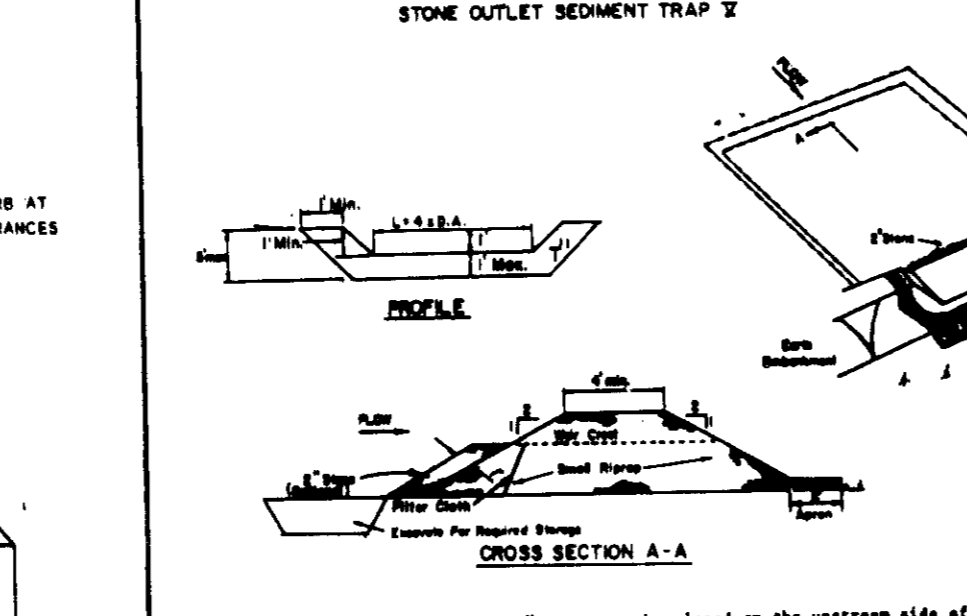
**CROSS SECTION SWM NO. 1 & STORM DRAIN PROFILE**

SCALE: HORIZ: 1"=10' VERT: 1"=5'



**TYPICAL SECTION ALONG BERM**

SCALE: HORIZ: 1"=10' VERT: 1"=5'

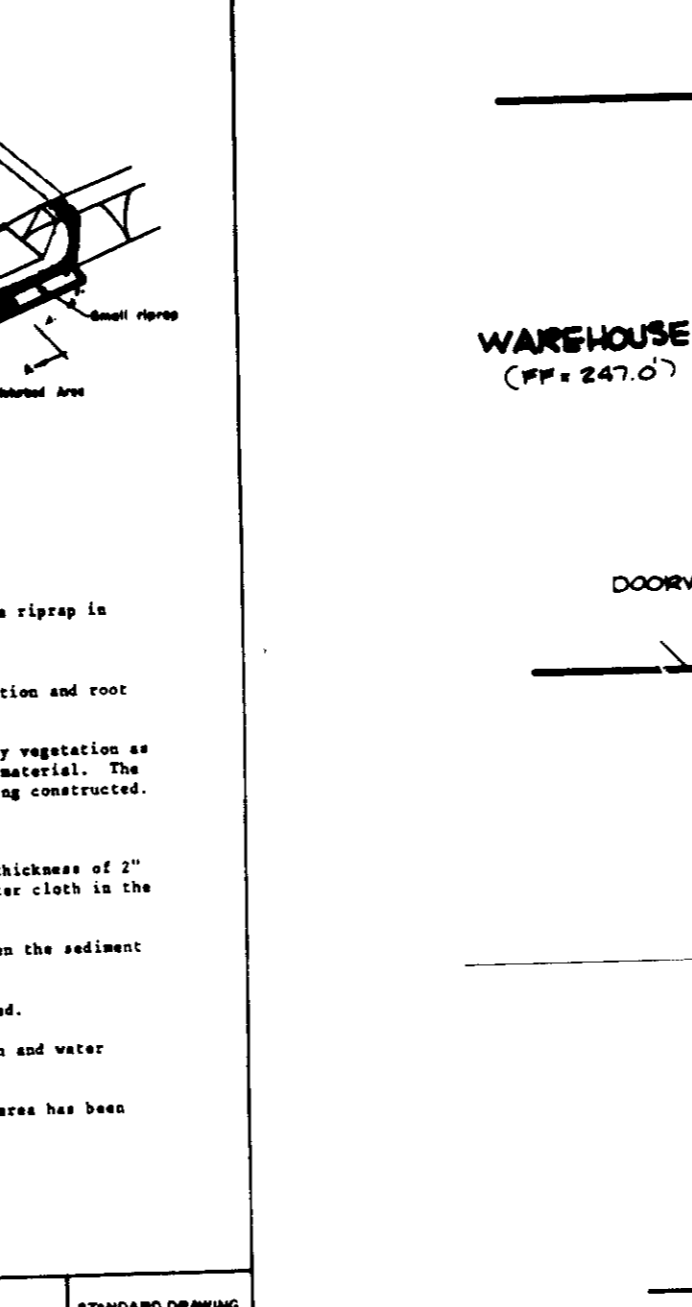


**STONE OUTLET SEDIMENT TRAP**

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

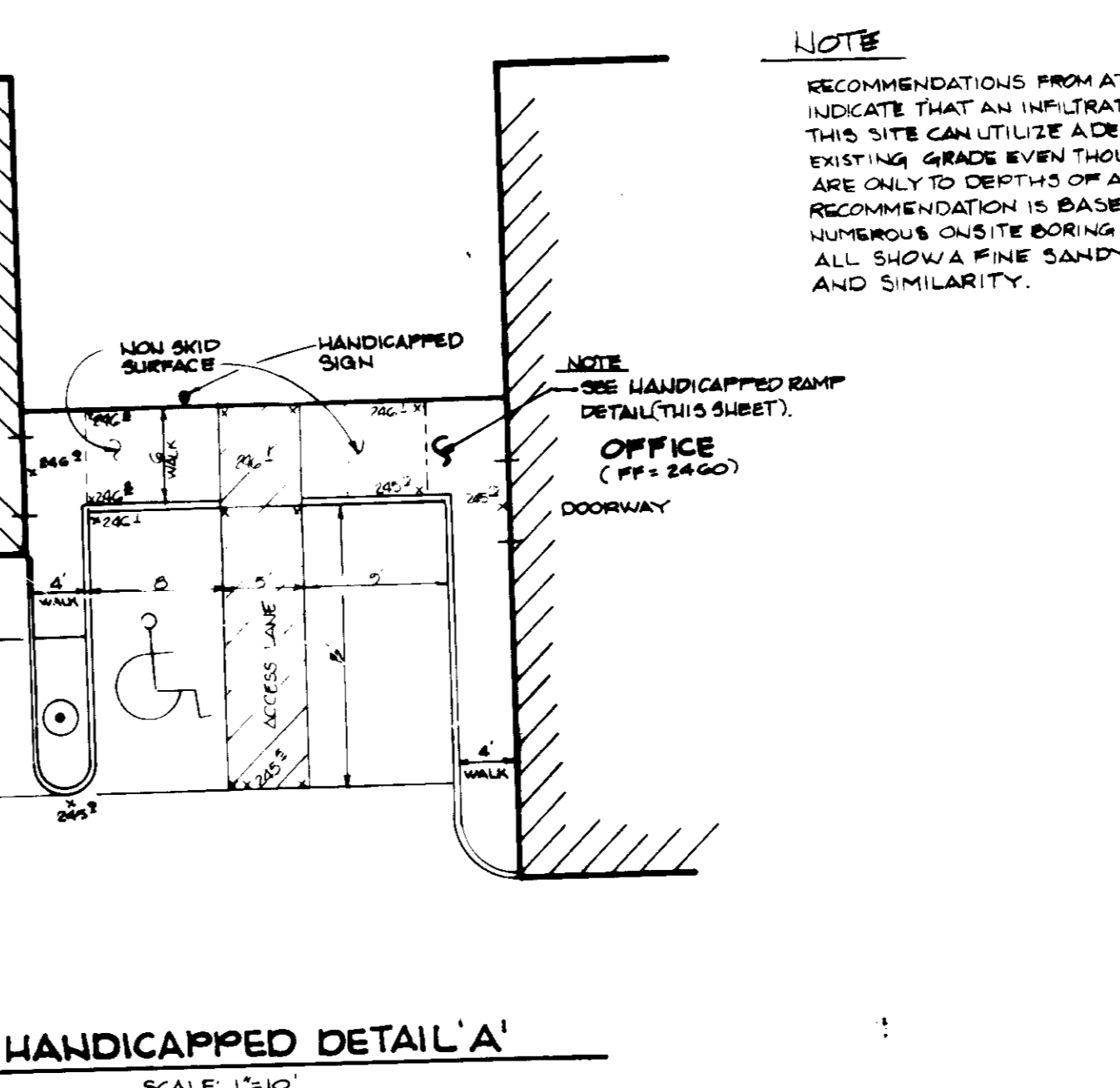
1. Area under sediment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
2. The fill material for the sediment shall be free of roots and other woody vegetation as well as oversized stones, rocks, organic material or other objectionable material. The sediment shall be compacted by tamping with equipment while it is being constructed.
3. All out and fill slopes shall be 1:1 or flatter.
4. The stone used in the outlet shall be small riprap 4" to 6" along with a 1" thickness of 2" aggregate placed on the up grade side on the small riprap 2" sediment filter cloth in the riprap.
5. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the outlet 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 that erosion and water pollution is minimized.
8. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

**STONE OUTLET SEDIMENT TRAP**



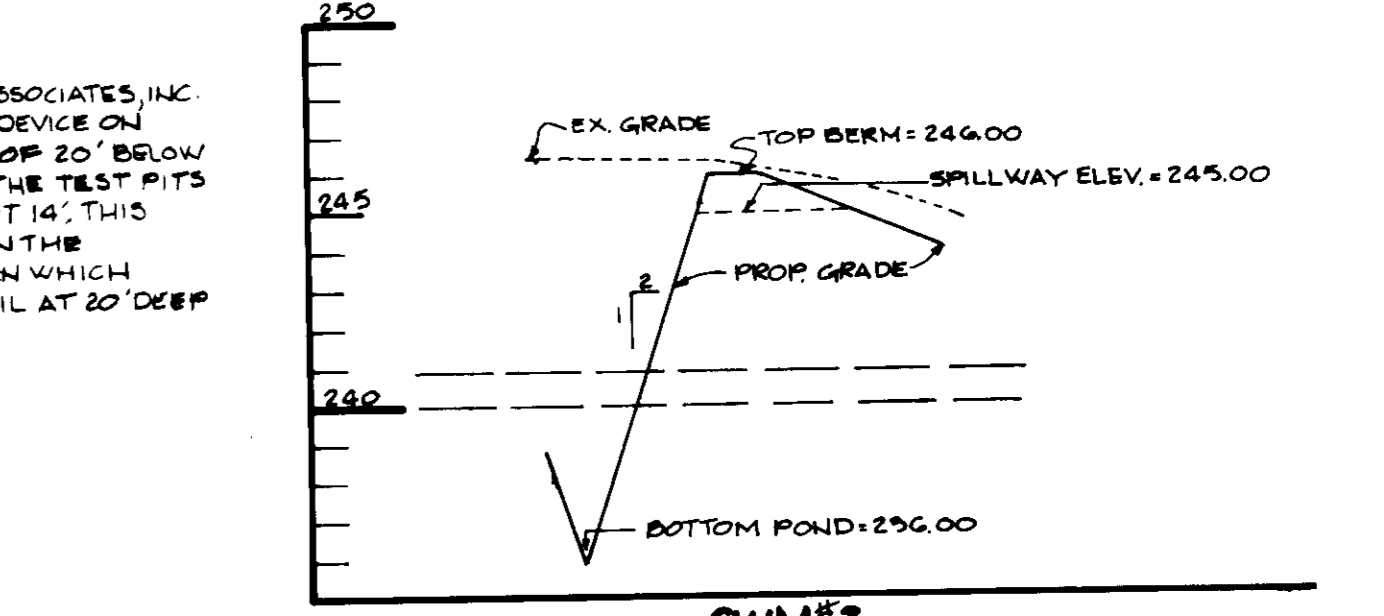
**HANDICAPPED DETAIL 'A'**

SCALE: 1"=10'



**HANDICAPPED RAMP**

SCALE: 1"=10'



**TYPICAL SECTION ALONG BERM**

SCALE: HORIZ: 1"=10' VERT: 1"=5'

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.

U.S. SOIL CONSERVATION SERVICE DATE: [Blank]

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

SOIL CONSERVATION DISTRICT DATE: [Blank]

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

COUNTY HEALTH OFFICER DATE: [Blank]

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

PLANNING DIRECTOR DATE: 4-20-87

CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE: 4-10-87

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

DIRECTOR DATE: [Blank]

CHIEF, BUREAU OF ENGINEERING DATE: 4-2-87

USE SPECIFIED LONGITUDINAL TIE BAR DEVICE, TYPE 'A' OR TYPE 'B', PLACED AT MIDDLE OF KEYWAY SPACED ACCORDING TO SPECIFICATIONS FOR CONCRETE PAVEMENT SHALL BE USED AT CONSTRUCTION COMBINATION CURB & GUTTER AND RIGID PAVEMENT. SEE STANDARD HD-572-B.

NOTE: JOINT SPACING FOR CONCRETE CURB AND COMB. CURB & GUTTER 10'-SEE SPECIFICATIONS FOR LOCATION AND DESCRIPTION OF TREATMENT FOR THE TYPES OF JOINTS USED.

DEVELOPER'S CERTIFICATE

I 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 INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS DEEMED NECESSARY.

DEVELOPER: [Signature] DATE: 4/1/87

ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND HONORABLE PLAN BASED ON PERSONAL KNOWLEDGE OF THE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

ENGINEER: [Signature] DATE: 3-30-87

**P-5 PAVING SECTION (ROAD WIDENING ALONG MD. RTE. 175)**

SECTION NUMBER	ROAD AND STREET CLASSIFICATION	PAVEMENT MATERIALS	
		FULL DEPTH BIT. CONC. ALTERNATE	GRANULAR BASE ALTERNATE
P-5	COMMERCIAL-INDUSTRIAL ZONES ALL ZONES MINOR ARTERIAL	1 1/2" BIT. CONC. SURFACE 4 1/2" BIT. CONC. BASE 5" BIT. CONC. BASE	1 1/2" BIT. CONC. SURFACE 5" BIT. CONC. BASE 12 COURSES OF 6" BENCH GRADED STABILIZED AGGREGATE BASE COURSE

**STD. BARRIER CURB**

SECTION NUMBER	ROAD AND STREET CLASSIFICATION	PAVEMENT MATERIALS
P-5	COMMERCIAL-INDUSTRIAL ZONES ALL ZONES MINOR ARTERIAL	1 1/2" BIT. CONC. SURFACE 4 1/2" BIT. CONC. BASE 5" BIT. CONC. BASE

OWNER / DEVELOPER

J&R ROOFING  
14400 CHERRY LANE COURT  
SUITE 104  
LAUREL, MD. 20707

boender & associates, inc.  
consulting engineers  
land surveyors  
land planners

COURTHOUSE SQUARE  
3865 ELLICOTT CITY, MD. 21043  
(301) 465-1777

TITLE: DETAILS

PROJECT: J&R ROOFING

LOCATION: TAX MAP 49, BLOCK 21, PARCEL 421

SIXTH ELECTION DISTRICT HOWARD CO. MD.

SCALE: AS SHOWN

DESIGNED BY: JOE NASON

DRAWN BY: J.H.B. III

CHECKED BY: W.N.

DATE: [Blank]

PAGE NO: 86459

JOB NO: 86459

DRAWING NO: 3 OF 3

DATE: 3-20-87

DESCRIPTION: REVISIONS

BY: [Blank]

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