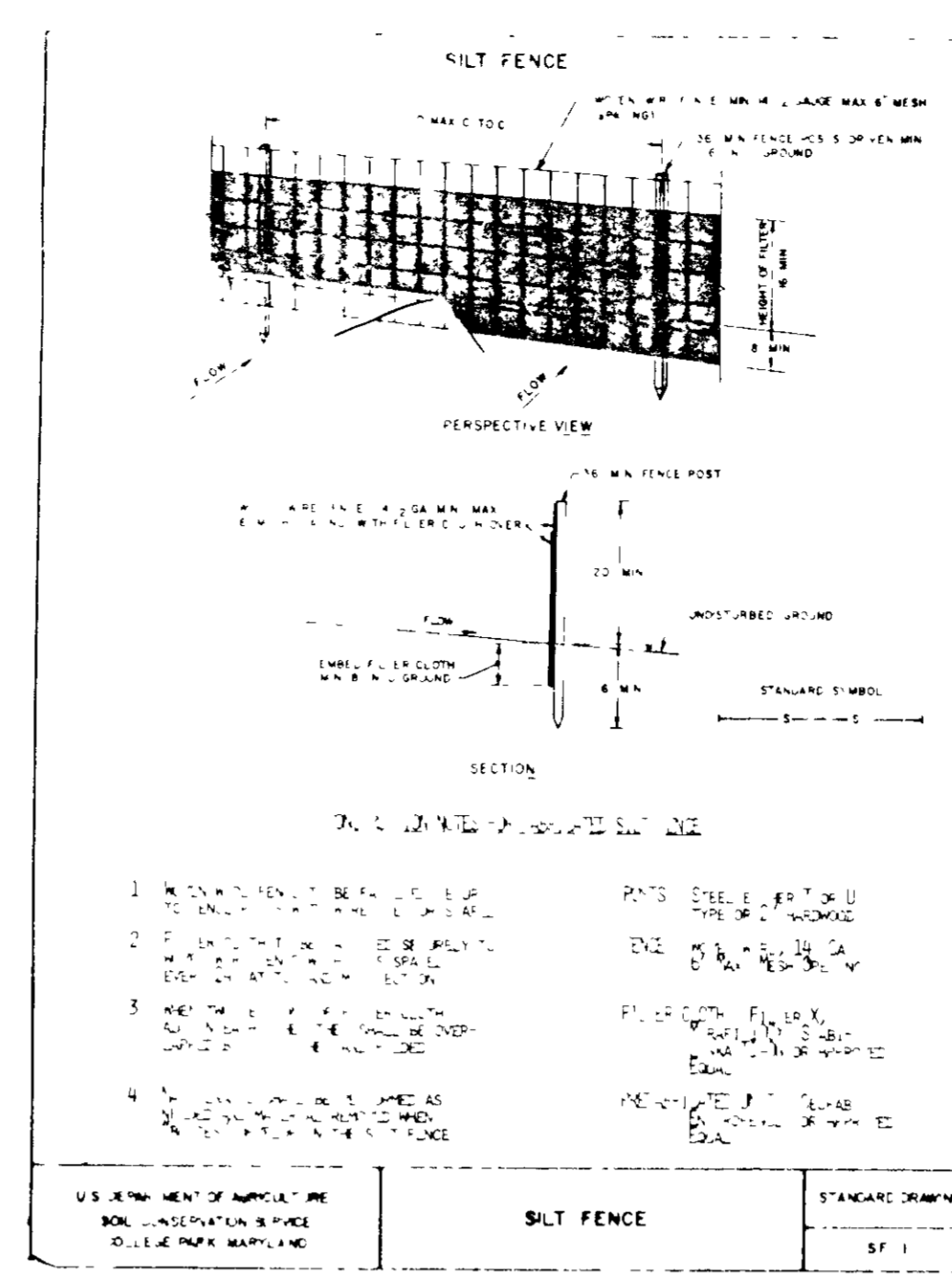
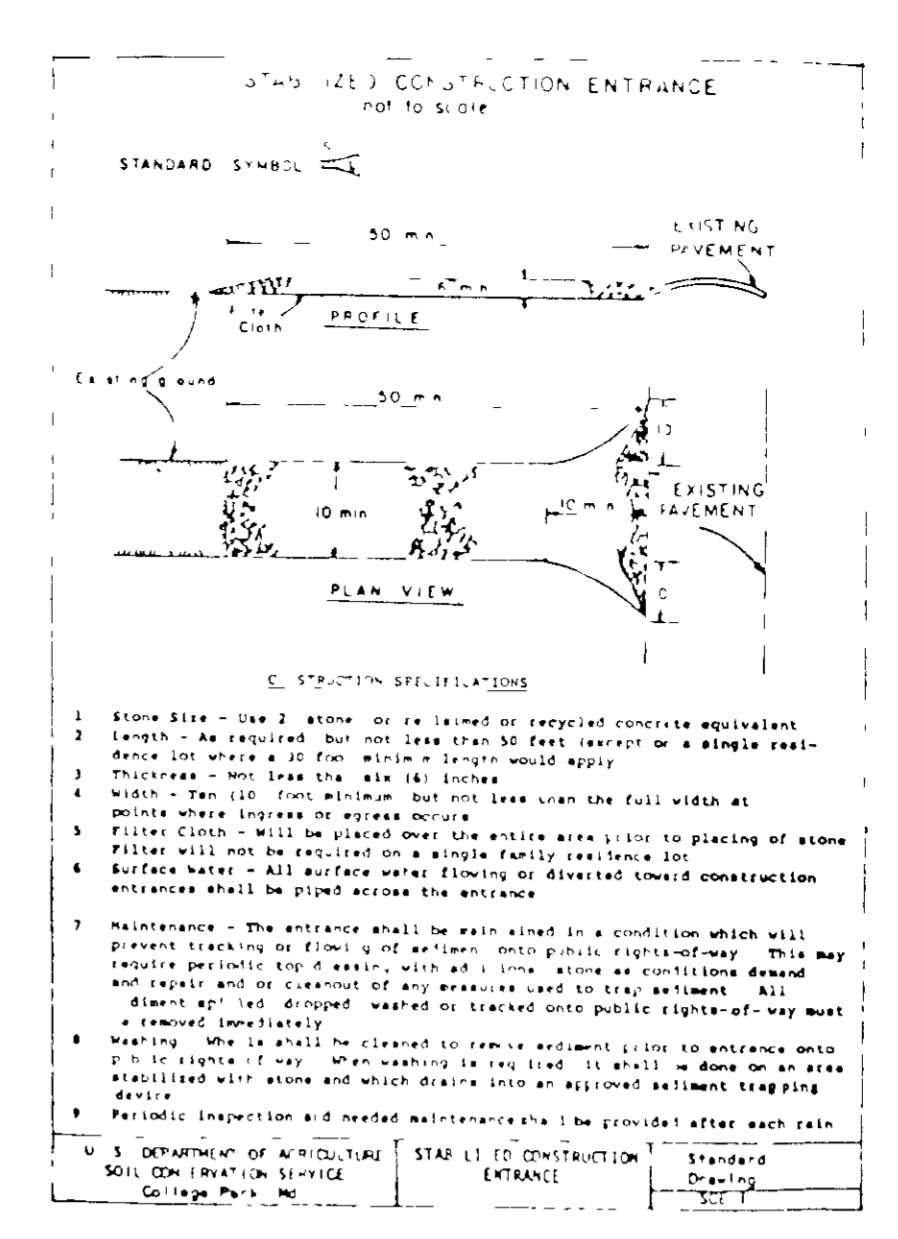


FRONT ELEVATION
(LOT 1)
No Scale

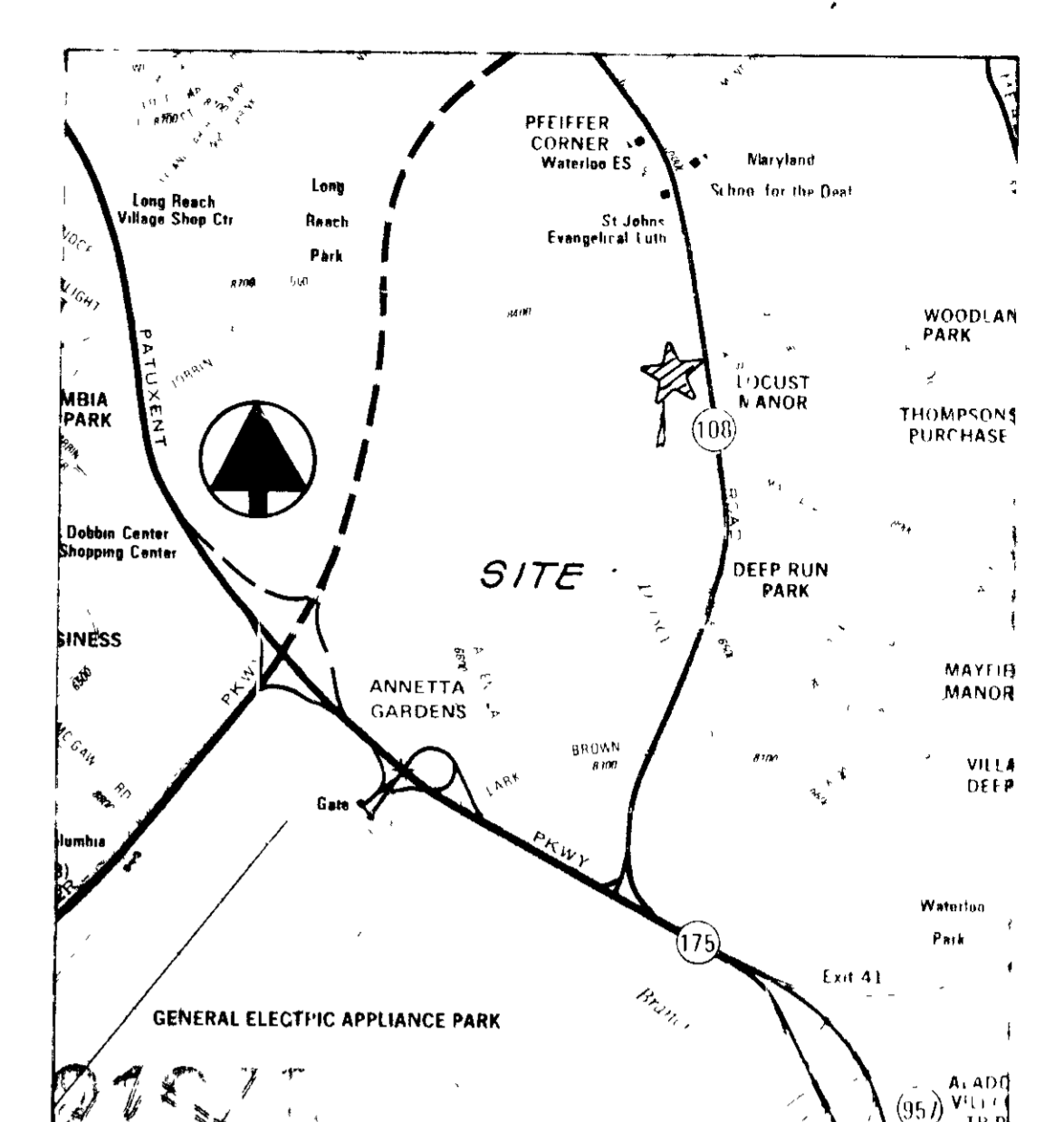
- 1. Excavate and grade the site to conform with the approved plan. 4 Days
- 2. Provide for parking and utility easements. 1 Day
- 3. Construct foundation. 1 Day
- 4. Erect walls. 2 Days
- 5. Provide permanent retaining walls and finish. 4 Days
- 6. Provide permanent retaining walls and finish. 1 Day



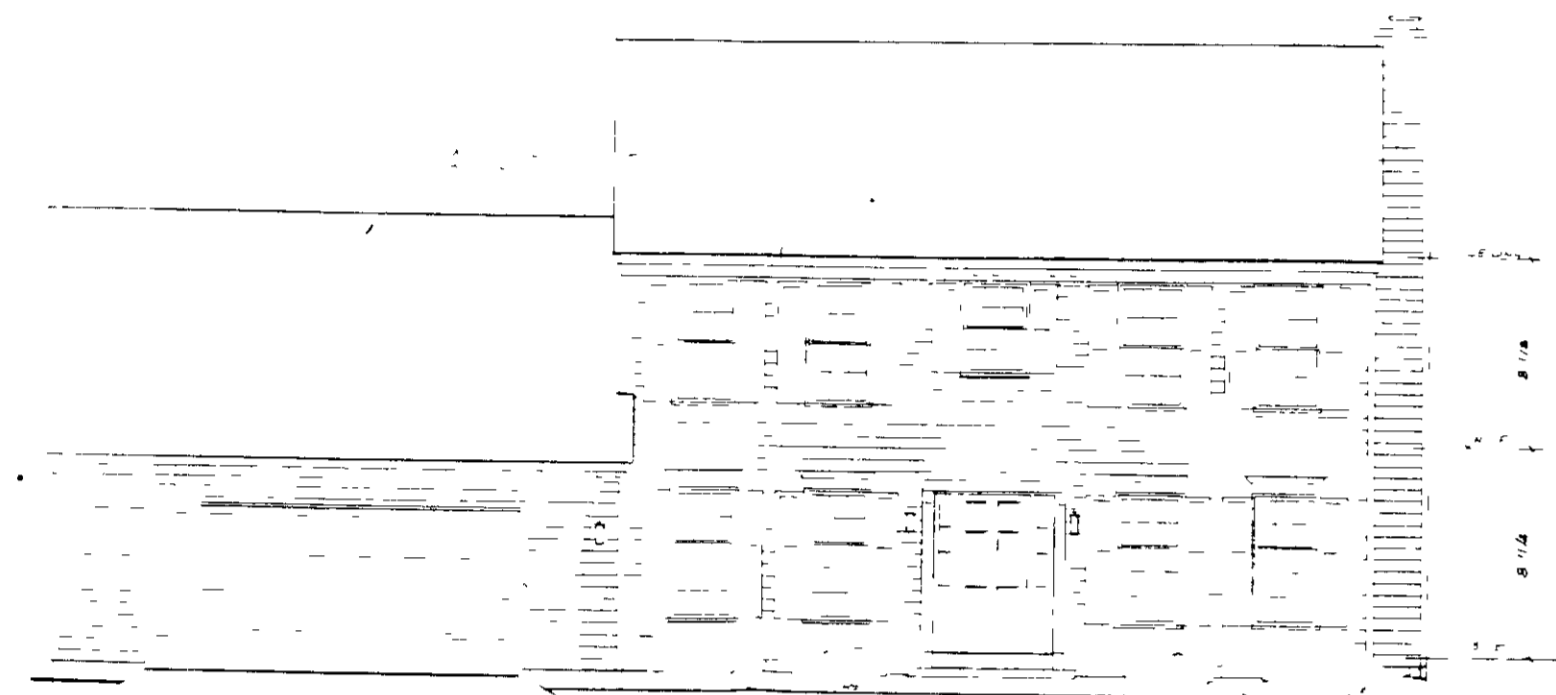
SILT FENCE
STANDARD DRAWING
SILT FENCE
SHEET 1



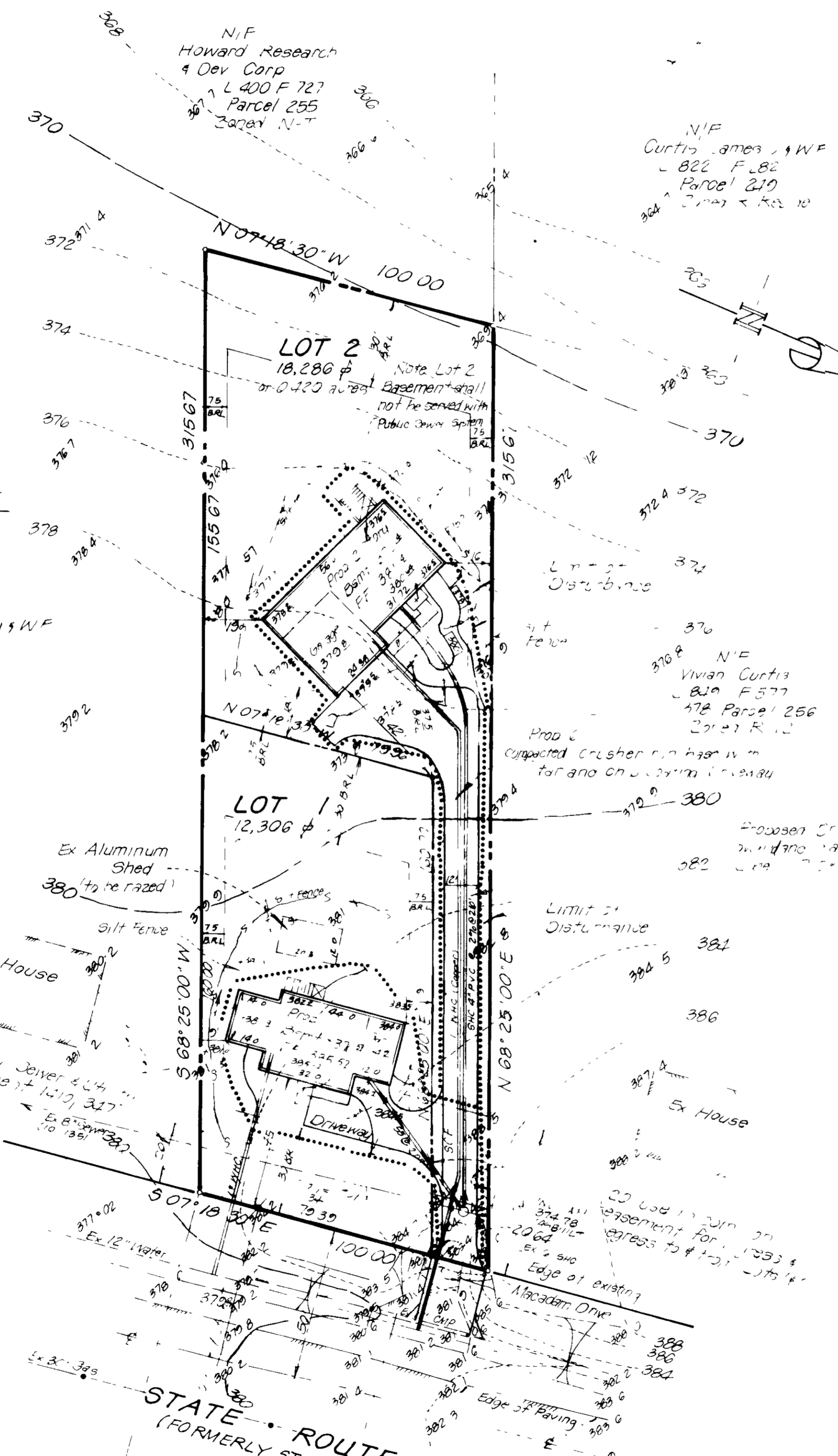
SILT FENCE ENTRANCE
STANDARD DRAWING
SILT FENCE ENTRANCE
SHEET 1



VICINITY MAP
Scale 1" = 2000'



FRONT ELEVATION
(LOT 2)
No Scale



1. A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits or to the STATE of any construction (992-2437)
2. All vegetative and structural practices are to be installed according to the provisions of this plan and be in conformance with the 1983 MARYLAND SOIL CONSERVATION SERVICE SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
3. Following initial soil disturbance or redistribution, maintenance of temporary stabilization shall be completed within 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all disturbed areas greater than 2 1/2' by 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, Chapter 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 SOIL CONSERVATION SERVICE SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 50) and (Sec. 51), temporary seeding (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch can only be done when recommended seedings 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 the Howard County Sediment Control Inspector.
7. Site Analysis:
Total Area of Site: 0.7023 Acres
Area Disturbed: 0.2123 Acres
Area to be seeded or paved: 0.2123 Acres
Area to be vegetatively stabilized: 0.2123 Acres
Total Cut: 0.0000 cu yds
Total Fill: 0.0000 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. 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 the start of grading or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.

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

Signature: *Howard S.C.D.* Date: 1/19/88

Reviewed for: _____ Name: _____ S.C.D. and meets Technical Requirements.

Signature: *J. Helms* Date: 12/1/88
S.O. Soil Conservation Service

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

Signature: *James M. ...* Date: 12-16-88
COUNTY HEALTH OFFICER

APPROVED BY HOWARD COUNTY OFFICE OF PLANNING & ZONING

Signature: *...* Date: 1-11-89
DIRECTOR

Signature: *...* Date: 1/1/89
CHIEF DIVISION OF Community Planning and Land Development

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

Signature: *James ...* Date: 12/14/88
DIRECTOR

Signature: *...* Date: 12-12-88
CHIEF BUREAU OF ENGINEERING

LEGEND

- 1 Water Meter WM
- 2 Water Manhole WMH
- 3 Sewer Manhole SMH
- 4 Sewer Line
- 5 Water Line
- 6 Gas Line
- 7 Existing Contours
- 8 Utility Pole & Anchor
- 9 Property Line
- 10 Limit of Disturbance
- 11 Proposed Grading

LOT NUMBER	STREET ADDRESS
Lot 1	6210 Waterloo Rd. (St Rt 108)
Lot 2	6206 Waterloo Rd. (St Rt 108)

AREA DISTURBED
LOT 1 = 4890 sq ft
LOT 2 = 1930 sq ft + 24510 sq ft + 2580 sq ft = 4510 sq ft
Area to be graded and reclaimed = 900 sq ft
Total = 5500 sq ft

OWNER: *Marion ...*
DEVELOPER: *Light, Elliott, & Associates*

SUBDIVISION NAME	SECT./ AREA	LOT/ PARCEL #
"Waterloo Estates"	None	Lot 5 142
PLAT # OR L/F	BLOCK # ZONE	TRF/ZONE MAP
7403	14 R-12	37
ELEC. DIST.	CENSUS TR.	
Guilford, Md	6065 02	
WATER CODE	SEWER CODE	
E-07	"2010000	

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.

Signature of Engineer: *Shiva ...* Date: _____
SHIVA NAND GARG, P.E., Professional Engineer #11542

DEVELOPER'S CERTIFICATE

"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: *...* Date: 12/2/88

DESIGNED BY: *Light, Elliott, & Associates*

SCALE: 1" = 30'

DATE: 12-16-87

PHONE: 410-281-1111

Light, Elliott, & Associates
ENGINEERS PLANNERS SURVEYORS

8408 ADELPHI ROAD • ADELPHI, MARYLAND 20785

APPROVED BY: *...* Date: 12/10/88
Plat # 7403

JOB NO: Md-920
FILE NO: LSP 2002

Timing

A dry well shall not be constructed or placed in service until all of the contributing drainage area has been stabilized and approved by the responsible inspector.

Dry Well Preparation

Excavate the dry well to the design dimensions. Excavated materials shall be placed away from the excavated sides to enhance wall stability. Large tree roots shall be trimmed flush with the sides in order to prevent fabric puncturing or tearing during subsequent installation procedures. The side walls of the dry well shall be roughened where sheared and sealed by heavy equipment.

Fabric Laydown

The filter fabric roll shall be cut to the proper width prior to installation. The cut width must include sufficient material to conform to well perimeter irregularities and for a 6 inch minimum top overlap. Place the fabric roll over the well and unroll a sufficient length to allow placement of the fabric down into the well. Stones or other anchoring objects should be placed on the fabric at the edge of the well to keep the lined well open during windy periods. When overlaps are required between rolls, the upstream roll shall lap a minimum of 2 feet over the downstream roll in order to provide a shingled effect. The overlap ensures fabric continuity or the fabric conforms to the excavation surface during aggregate placement and compaction.

Aggregate Placement and Compaction

Drainage aggregate shall be placed in lifts and compacted using plate compactors. As a rule of thumb, a maximum loose lift thickness of 12 inches is recommended. The compaction process ensures fabric conformity to the excavation sides, thereby reducing the potential for soil piping and fabric clogging.

Overlapping and Covering

Following aggregate placement, the fabric previously weighted by stones should be folded over the aggregate to form a 6 inch minimum longitudinal lap. The desired fill soil should be placed over the lap at sufficient intervals to maintain the lap during subsequent backfilling.

Contamination

Care shall be exercised to prevent natural or fill soils from intermingling with the drainage aggregate. All contaminated aggregate shall be removed and replaced with uncontaminated aggregate.

VOIDS Behind fabric

Voids can be created between the fabric and excavation sides and should be avoided. Removing boulders or other obstacles from the trench wall is one source of such voids. Natural soils should be placed in these voids at the most convenient time during construction to ensure fabric conformity to the excavation sides. Soil piping, fabric clogging and possible surface subsidence will be avoided by this remedial process.

Unstable Excavation Sides

Vertically excavated trench walls may be difficult to maintain in areas where the soil moisture is high or where soft cohesive or cohesionless soils predominate. These conditions may require laying back of the side slopes to maintain stability; trapezoidal rather than rectangular cross sections may result.

Foundation Protection

Dry wells 3 or more feet deep shall be located at least 10 feet down gradient from foundation walls.

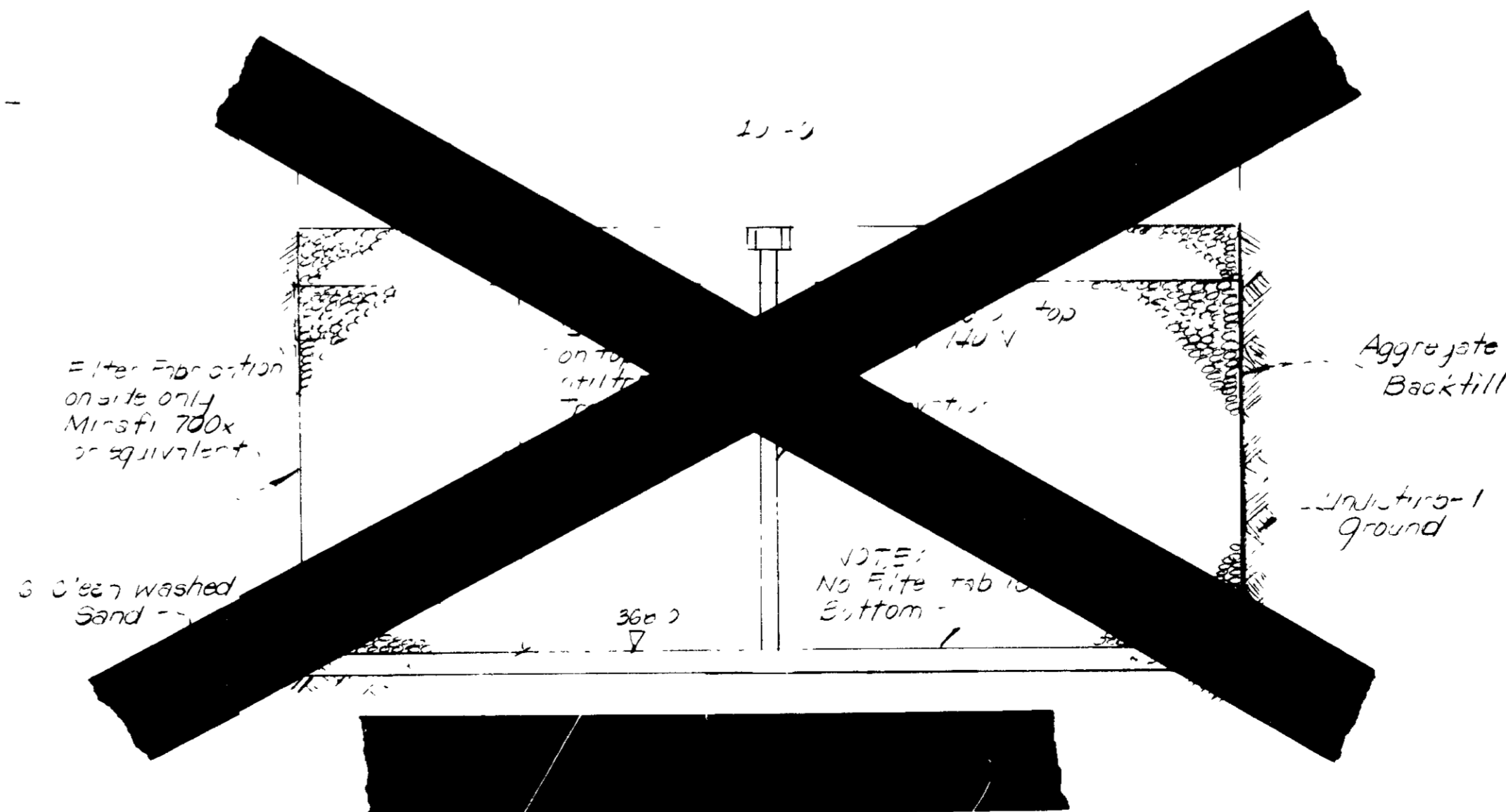
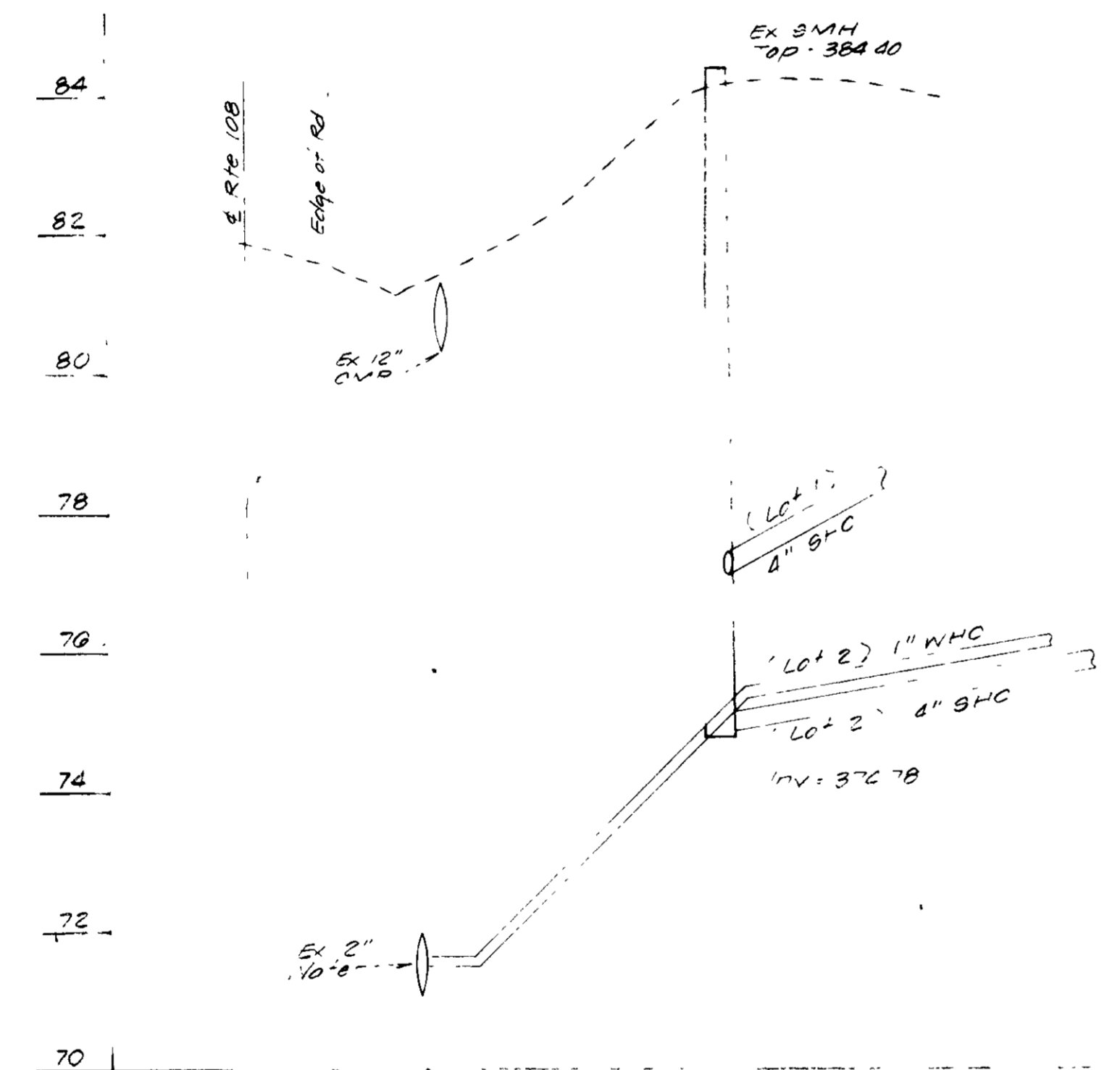
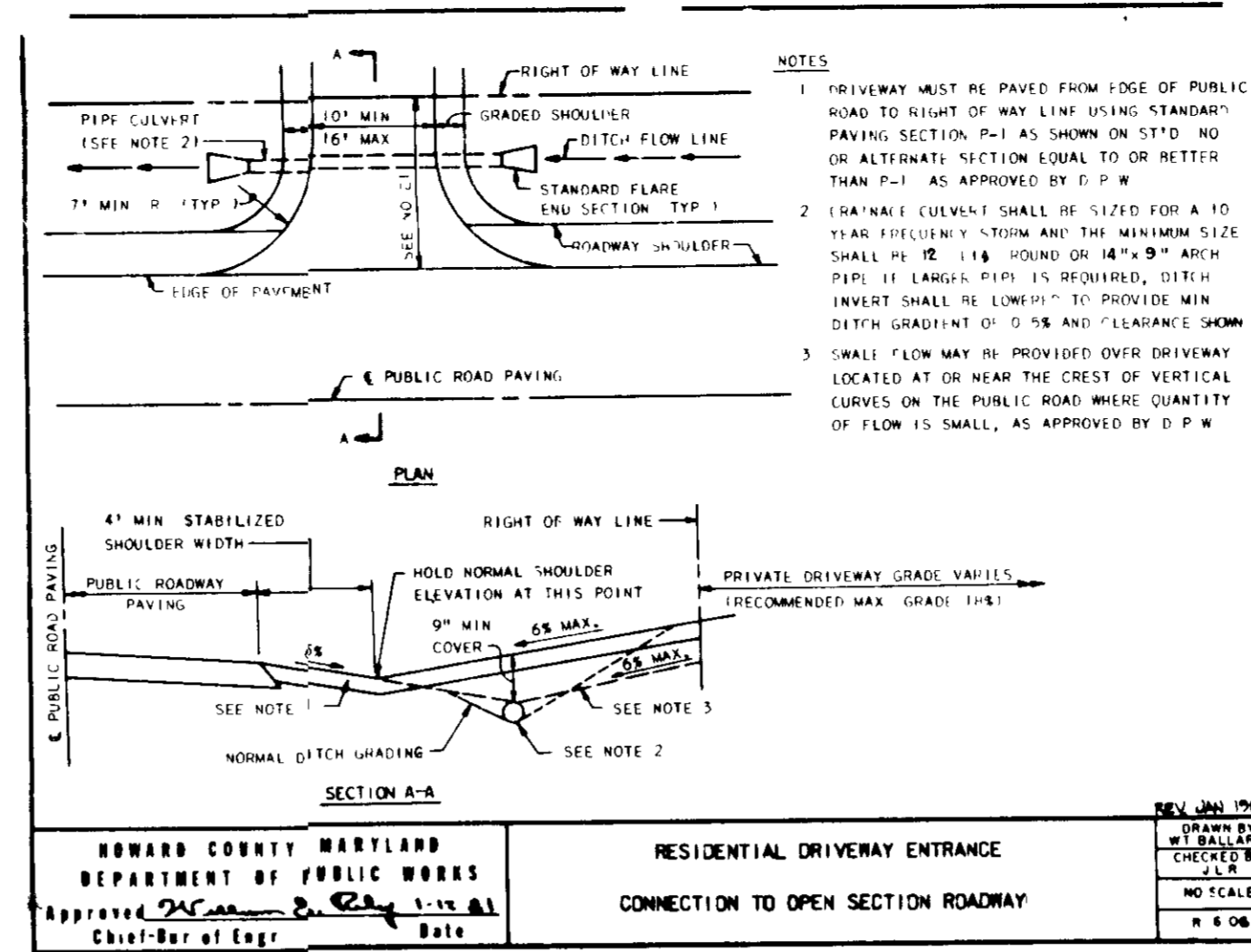
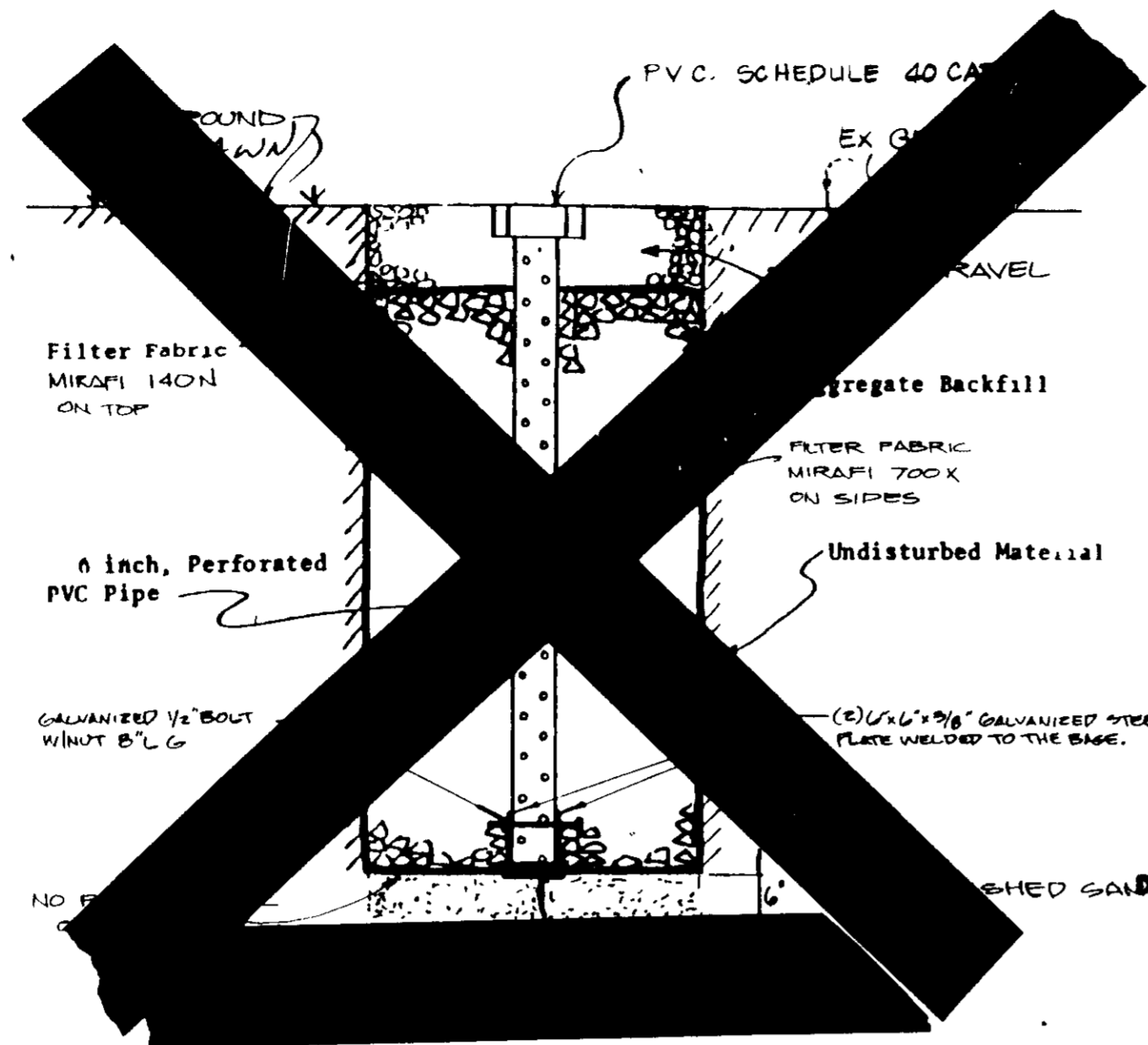
Observation Well

An observation well, as described in Standards and Specifications for Infiltration Practices, will be provided. The depth of the well, at the time of installation, will be clearly marked on the well cap.

Maintenance

Dry wells shall be designed to minimize maintenance. However, it is recognized that all infiltration facilities are subject to clogging by sediment, oil grease, grit and other debris. In addition, the performance and longevity of these structures is not well documented. Consequently, a monitoring observation well is required for all infiltration structures.

The observation well should be monitored periodically. For the first year after completion of construction, the well should be monitored on a quarterly basis and after every large storm. It is recommended that a log book be maintained indicating the rate at which the facility dewater after large storms and the depth of the well for each observation. Once the performance characteristics of the structure have been verified, the monitoring schedule can be reduced to an annual basis, unless the performance data indicate that a more frequent schedule is required.



OWNER
Kenneth Lape
7256 Rte 52
Clarksville, Maryland
21029

DEVELOPER
Mark Skarin
16012 Burtons Lane
Laurel, Md 20707
725-8831

APPROVED
DIVISION of
COMMUNITY PLANNING
& LAND DEVELOPMENT
HOWARD COUNTY,
MARYLAND
DATE 8-24-88

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

Stephen L. Fisher 12/1/88
Howard S.C.D. Date

Reviewed for _____ S.C.D.
Name
and meets Technical Requirements.

J. Helms 12/19/88
U.S. Soil Conservation Service Date

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

Joseph M. Boyle 12-16-88
COUNTY HEALTH OFFICER DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING

W. H. ... 1-11-89
DIRECTOR DATE

David ... 1-6-89
CHIEF DIVISION OF Community Planning and Land Development DATE

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

James ... 12/1/88
DIRECTOR DATE

Michael ... 12-13-88
CHIEF BUREAU OF ENGINEERING DATE

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."

Shiva Nand Garg 1-1-89
Signature of Engineer Date
Shiva Nand Garg
Reg. Prof. Engineer #11542

DEVELOPER'S CERTIFICATE

"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 AUTHORITY PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

Shiva Nand Garg 12/2/88
Signature of Developer DATE

SITE DEVELOPMENT PLAN
Sigsbee Rte #195
Lots 192

WATER LOOSE ESTIMATES
85 (outside) Exp. 10/2/88
Howards County, Md.

DESIGNED BY
SCALE None DATE 10-20-87 PHONE 410-210-2100

DRAWN BY
Light, Elliott, & Associates
ENGINEERS PLANNERS SURVEYORS
8508 ADELPHI ROAD ADELPHI MARYLAND 20783

APPROVED BY
DATE 12-10-88 JOB NO 111-210
FILE NO 111-210