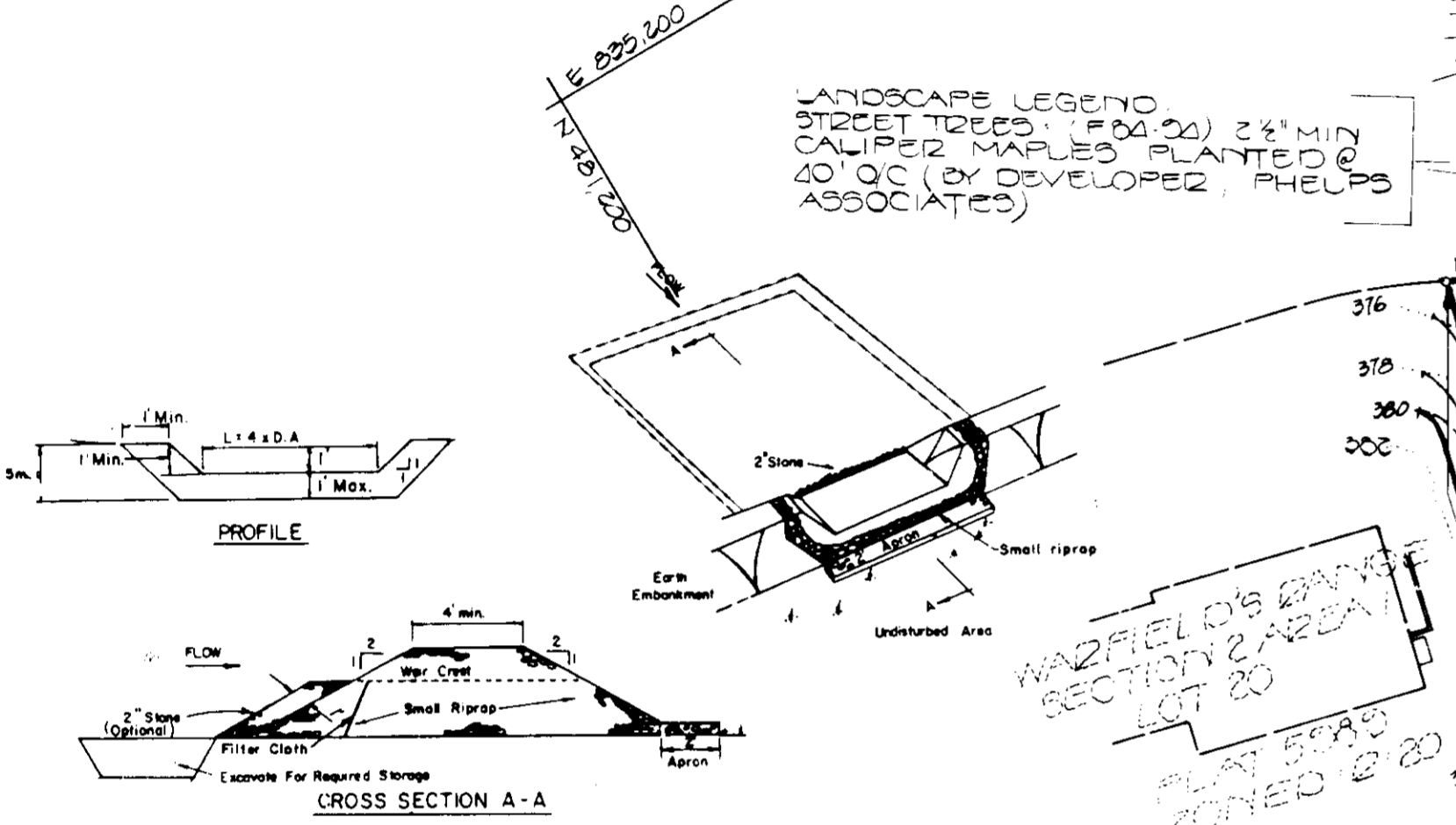
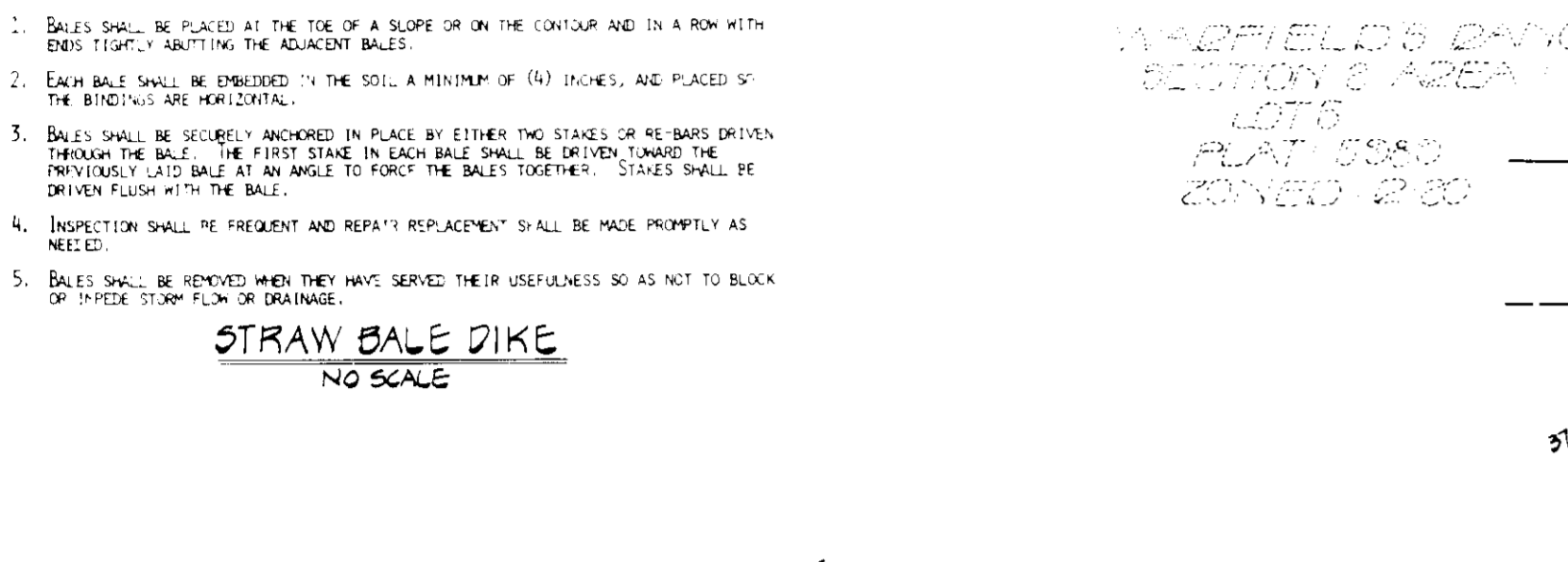
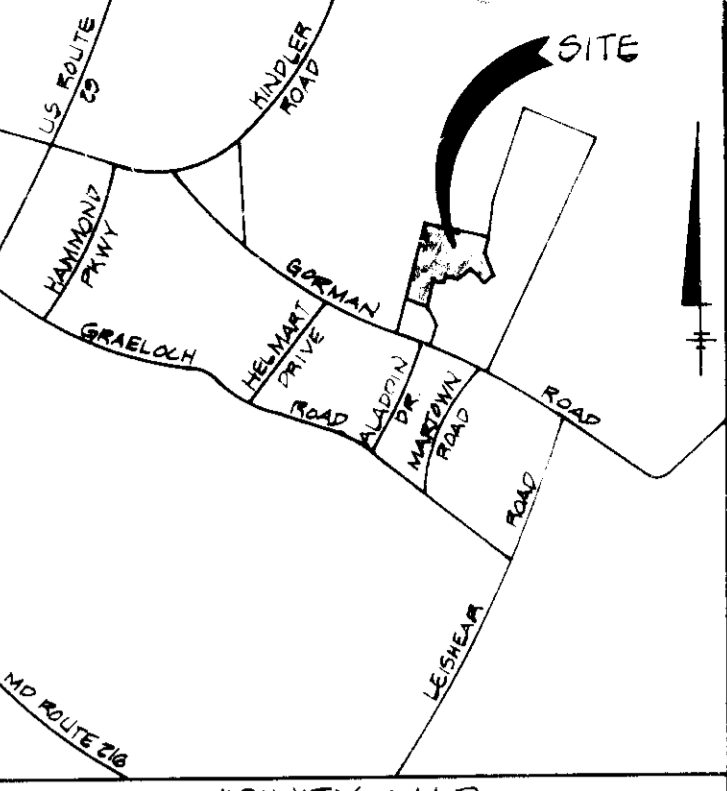
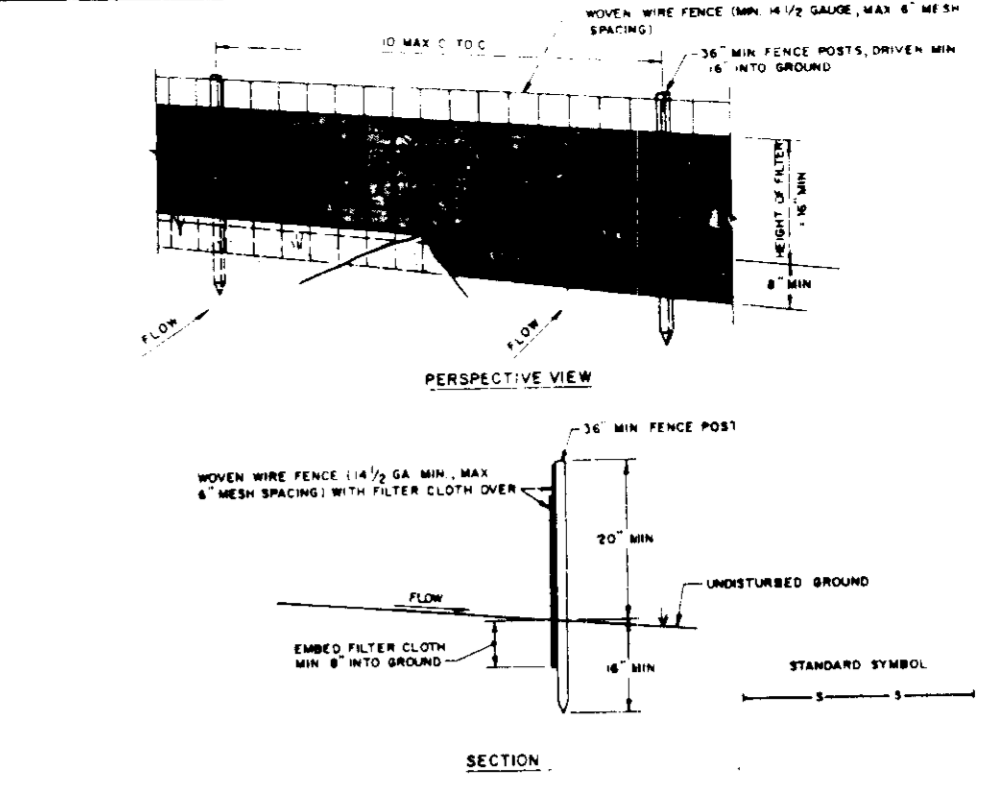
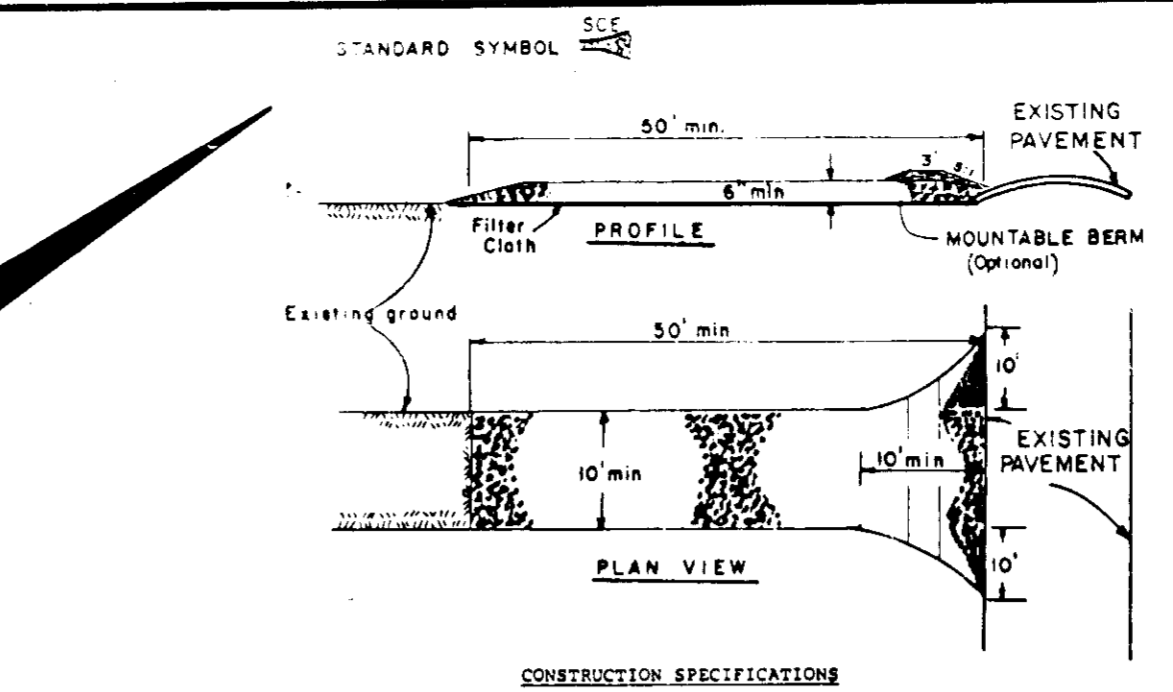
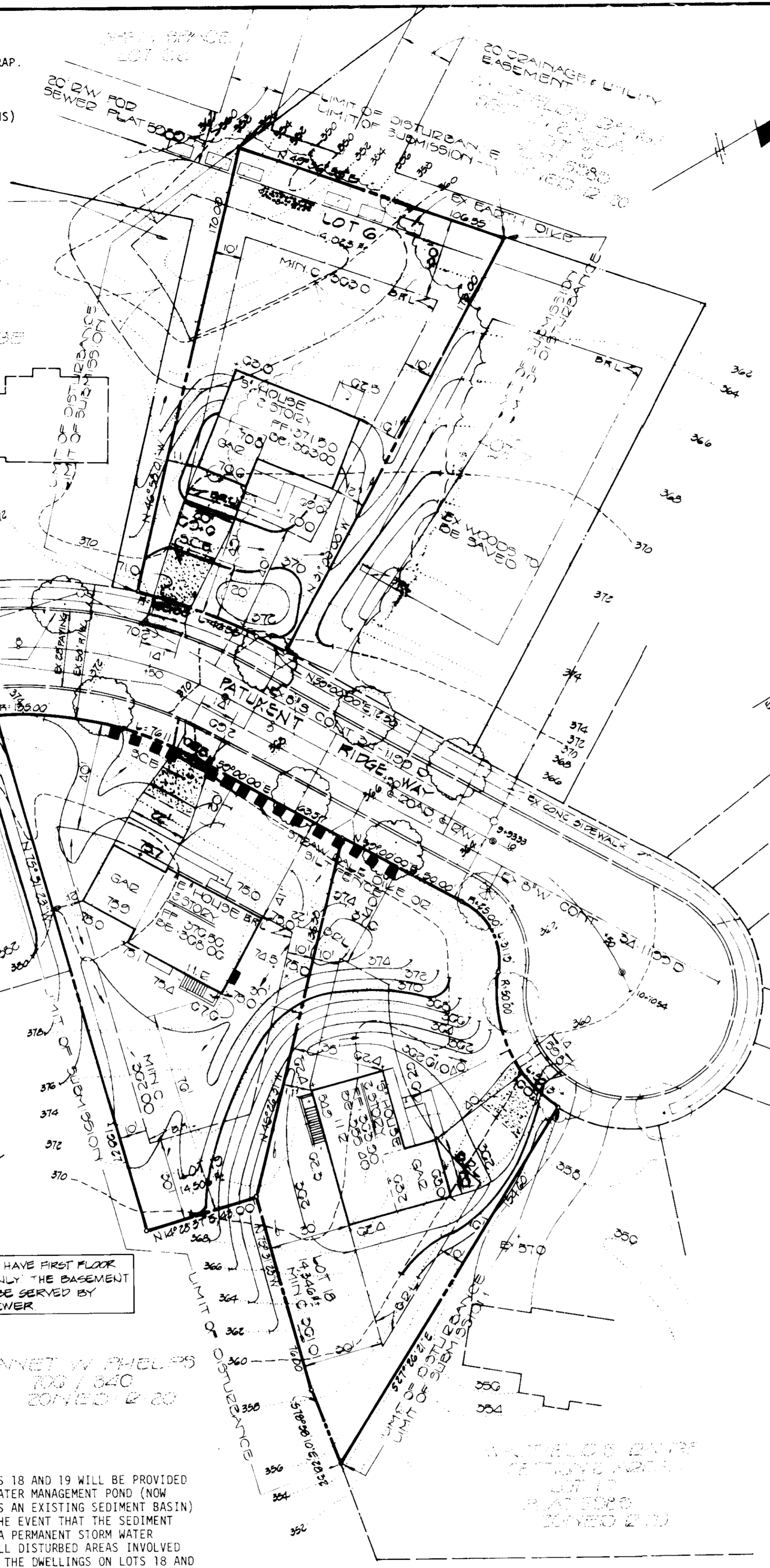


DESIGN DATA SEDIMENT TRAP NO. 1:

- DRAINAGE AREA TO TRAP: 5.0 AC. ±
- TYPE OF TRAP: STONE OUTLET SEDIMENT TRAP.
- STONE OUTLET LENGTH: 20'
- VOLUME PROVIDED: 335 C.Y.
- TRAP SIZE: 50' x 48' (BOTTOM DIMENSIONS)
- TRAP DEPTH: 3'
- CREST ELEV.: 350.00
- BOTTOM ELEV.: 346.00
- CLEANOUT ELEV.: 347.50

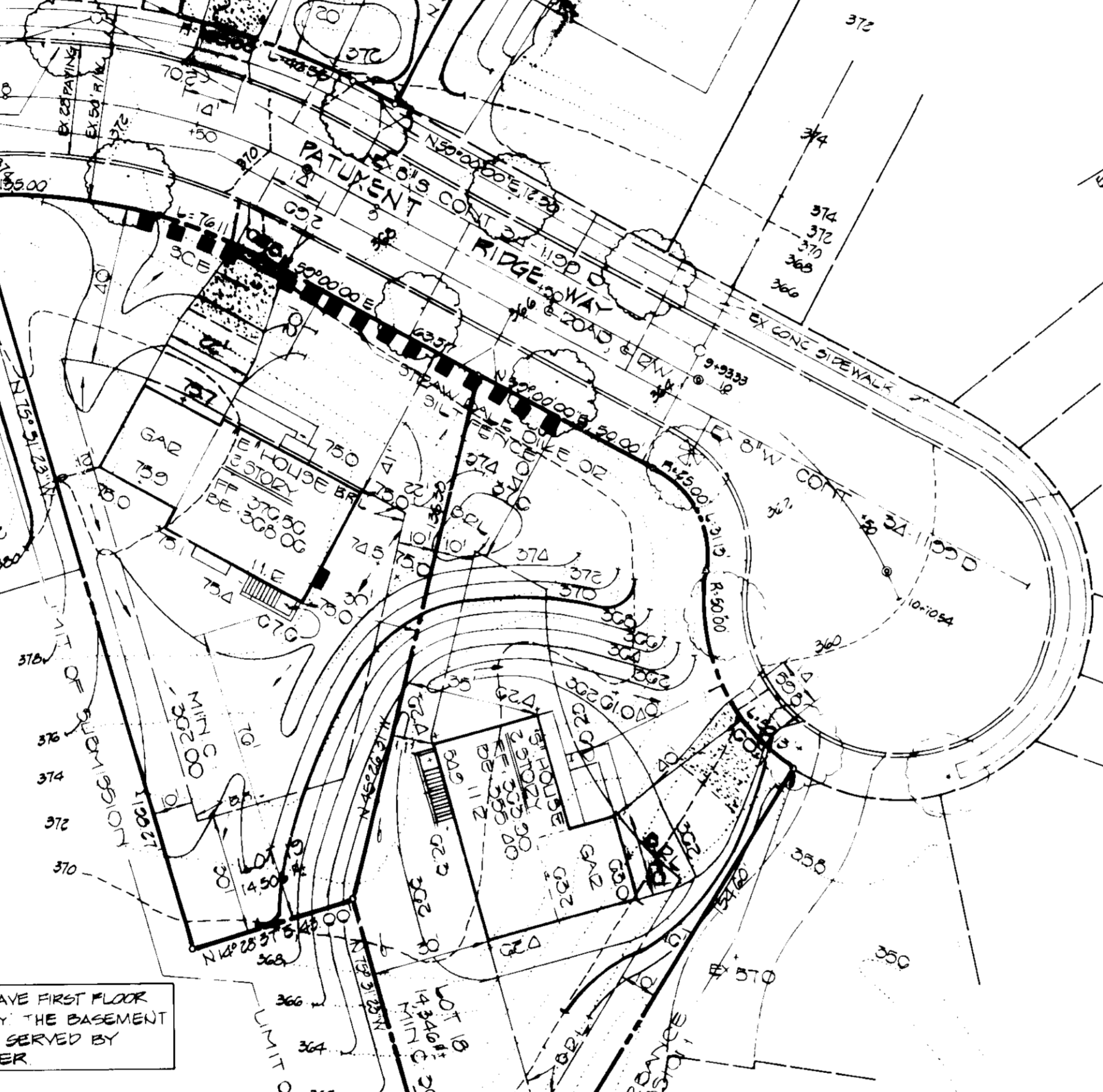


OPTION: A one foot layer of 2" stone may be placed on the upstream side of the riprap in place of the embedded filter cloth.

CONSTRUCTION SPECIFICATIONS FOR ST-1

- Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
- The fill material for the embankment shall be free of roots and 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.
- All cut and fill areas shall be 4:1 or flatter.
- 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 embedded filter cloth in the riprap.
- 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.
- The structure shall be inspected after each rain and repairs made as needed.
- Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
- The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

STONE OUTLET SEDIMENT TRAP
NO SCALE



CONSTRUCTION SPECIFICATIONS:

- Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
- Length - As required, but not less than 30 feet (except on a single residence lot where a 15 foot minimum length would apply).
- Thickness - Not less than six (6) inches.
- Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
- Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will be fastened on a single family residence job.
- Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mounded curb is required.
- Maintenance - The entrance shall be maintained in a condition which will prevent blockage or flow 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 measure used to trap sediment. All sediment applied, dropped, washed or tracked onto public rights-of-way must be removed immediately.
- Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
- Periodic inspection and needed maintenance shall be provided after each rain.

PERMANENT SEEDING NOTES:

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS DESIRED.

SEEDING 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:

- PREFERRED - APPLY 2 TONS PER ACRE DOMESTIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 500 LBS PER ACRE 15-10-10 FERTILIZER (14 LBS/1000 SQ. FT.) BEFORE SEEDING. NARROW OR DISC INTO UPPER THREE-INCHES OF SOIL AT TIME OF SEEDING. APPLY 400 LBS PER ACRE 30-0-0 UREA-NITROGEN FERTILIZER (9 LBS/1000 SQ. FT.)
- ACCEPTABLE - APPLY 2 TONS PER ACRE DOMESTIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ. FT.) BEFORE SEEDING. NARROW OR DISC INTO UPPER THREE-INCHES OF SOIL.

SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 75 LBS PER ACRE (1.5 LBS/1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 80 LBS PER ACRE (1.6 LBS/1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 29, PROTECT SITE BY OPTION (1) 2 TONS PER ACRE DOMESTIC STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE 500. OPTION (3) SEED WITH 40 LBS PER ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS PER ACRE MULCH ANCHORED STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 2 1/2 GALS PER ACRE (5 GALS/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FT. OR HIGHER, USE 348 GALS PER ACRE (8 GALS/1000 SQ. FT.) FOR ANCHORING.

MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 140 LBS/1000 SQ. FT.) OF UNROOTED SMALL STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 2 1/2 GALS PER ACRE (5 GALS/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FT. OR HIGHER, USE 348 GALS PER ACRE (8 GALS/1000 SQ. FT.) FOR ANCHORING.

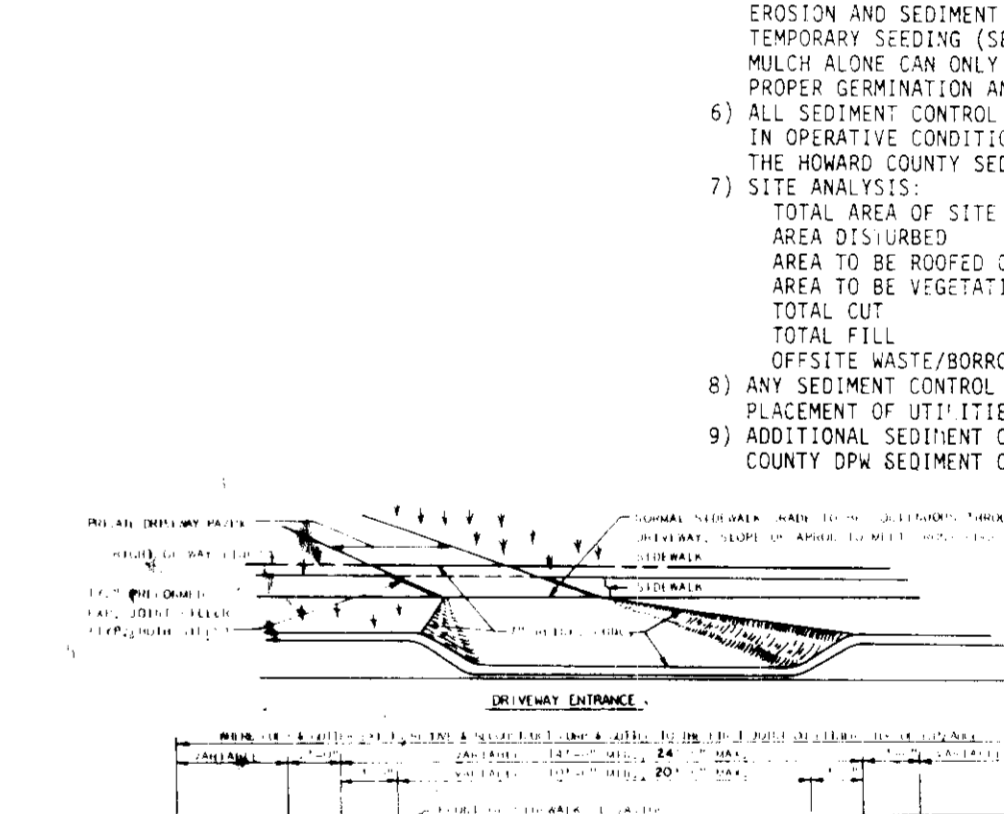
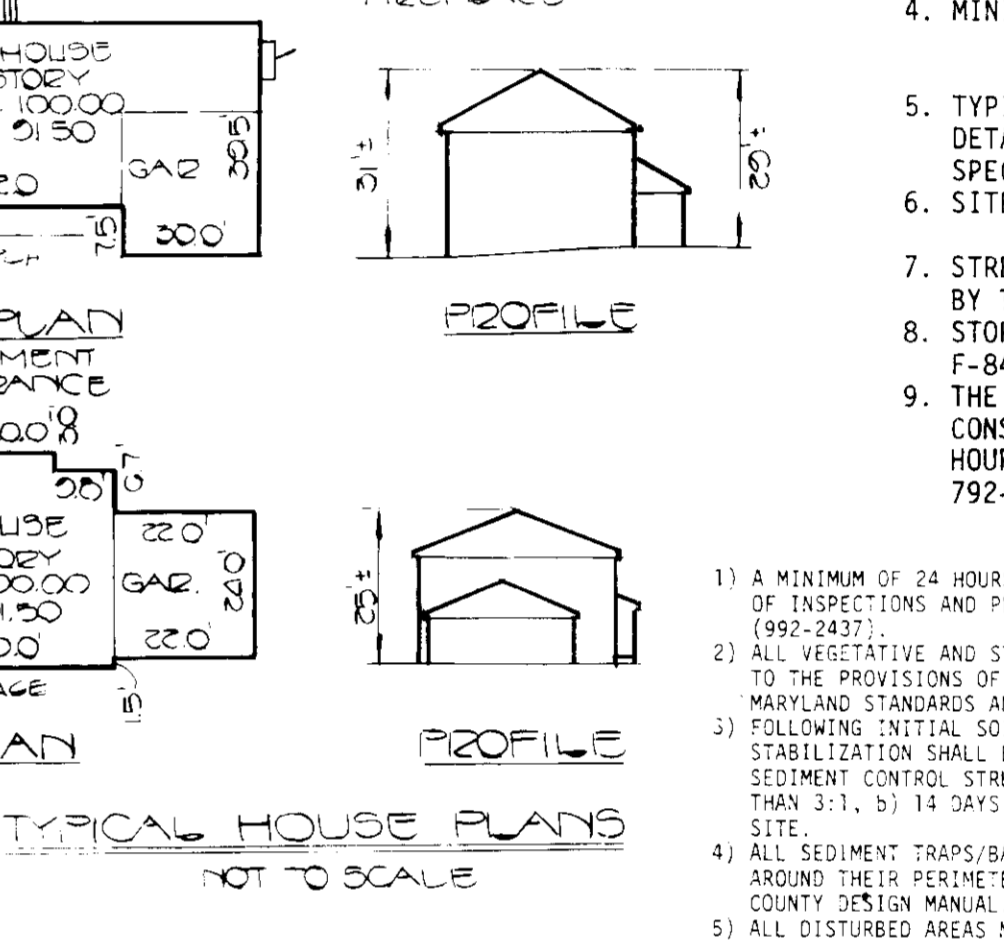
REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

CONSTRUCTION SEQUENCE:

- OBTAIN GRADING PERMIT.
- INSPECT EXISTING SEDIMENT BASIN AND MAKE ANY NECESSARY REPAIRS OR MAINTENANCE TO THE BASIN PRIOR TO BEGINNING ANY WORK SHOWN HEREON.
- CONSTRUCT STONE CONSTRUCTION ENTRANCE FOR LOTS 6, 18 AND 19.
- INSTALL STRAW BALE DIKE OR SILT FENCE ON LOTS 6, 18 AND 19.
- CLEAR AND GRUB HOUSE SITES TO SUBGRADE.
- EXCAVATE FOR FOUNDATIONS AND BEGIN HOUSE CONSTRUCTION.
- AFTER EACH RAINFALL, THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE ON THE SEDIMENT AND EROSION CONTROL STRUCTURES SHOWN HEREON.
- REMOVE SEDIMENT FROM ROADWAYS AND DRESS STONE CONSTRUCTION ENTRANCES AS REQUIRED.
- FINE GRADE LOTS AND STABILIZE INSTALL DRIVEWAYS AND SIDEWALKS.
- REMOVE STRAW BALE DIKE OR SILT FENCE AND STABILIZE.
- ALL DISTURBED AREAS DUE TO REMOVAL OF SEDIMENT CONTROL MEASURES SHALL BE GRADED AND STABILIZED BY PERMANENT SEEDING.

GENERAL NOTES:

- SUBJECT PROPERTY IS LOCATED ON TAX MAP 41 AND 42 PART OF PARCEL 80.
- PLAT REFERENCE: 5989
- PRESENT ZONING: R-20
- MINIMUM SETBACKS: FRONT - 40' REAR - 30' SIDE - 10'
- TYPICAL HOUSE DIMENSIONS, SCHEMATIC PROFILE, DETAILS, SEDIMENT CONTROL NOTES AND SPECIFICATIONS CAN BE FOUND ON SHEET 1 OF 1.
- SITE ANALYSIS: A. TOTAL NUMBER OF LOTS: 3 B. TOTAL AREA OF LOTS: 0.58 AC. ± C. TOTAL AREA TO BE DISTURBED: 0.20 AC. ± D. TOTAL IMPERVIOUS AREA: 0.10 AC. ± E. TOTAL AREA TO BE REVEGETATED: 0.70 AC. ±
- STREET TREES WILL BE PROVIDED UNDER F-84-94 BY THE DEVELOPER - PHELPS ASSOCIATES.
- STORM WATER MANAGEMENT IS PROVIDED UNDER F-84-94.
- THE CONTRACTOR OR DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION/SURVEY DIVISION, 24 HOURS IN ADVANCE OF COMMENCEMENT OF WORK AT 792-7272.



SEEDING CONTROL NOTES:

- A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (902-2827).
- 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. STABILIZATION SHALL BE COMPLETED WITHIN: a) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, b) PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, b) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- 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.
- 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) AND MULCHING (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 SEEDING AND ESTABLISHMENT OF GRASSES.
- 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.
- SITE ANALYSIS: TOTAL AREA OF SITE: 0.58 ACRES AREA TO BE DISTURBED: 0.20 ACRES AREA TO BE ROOFED OR PAVED: 0.10 ACRES AREA TO BE VEGETATIVELY STABILIZED: 0.70 ACRES TOTAL CUT: 0.10 CU. YDS. TOTAL FILL: 0.10 CU. YDS. OFFSITE WASTE/BORROW AREA LOCATION: [Symbol]
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY DPM SEDIMENT CONTROL INSPECTOR.

ADDRESS CHART

LOT #	ADDRESS
10	10524 PATUXENT RIDGE WAY
18	10328
6	10337

LANDSCAPE LEGEND:

- STREET TREES (F-84-94)
- 2 1/2" MIN CALIPER MAPLES PLANTED @ 40' O/C (BY DEVELOPER, PHELPS ASSOCIATES)

SITE ANALYSIS:

- TOTAL NUMBER OF LOTS: 3
- TOTAL AREA OF LOTS: 0.58 AC. ±
- TOTAL AREA TO BE DISTURBED: 0.20 AC. ±
- TOTAL IMPERVIOUS AREA: 0.10 AC. ±
- TOTAL AREA TO BE REVEGETATED: 0.70 AC. ±

OWNER AND DEVELOPER:
F.G. MARKER CO. INC.
5900 PRINCESS GARDEN PARKWAY
SUITE 107
LANNAM, MARYLAND 20706

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERS & LAND SURVEYORS
8388 COURT AVENUE
ELLCOTT CITY, MARYLAND 21043
(301) 451-2855

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

Signature: *Charles J. Carter*
DATE: 8/21/85

DEVELOPER'S CERTIFICATE:
I/WE 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 ONSITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS AFE DEEMED NECESSARY.

Signature: *Quail Marlow*
DATE: 8/29/85

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

Signature: *David N. Le...*
DATE: 9/9/85

U.S. SOIL CONSERVATION SERVICE

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

Signature: *Stephen...*
DATE: 9/9/85

DISTRICT OFFICER
HOWARD SOIL CONSERVATION DISTRICT

APPROVED: OFFICE OF PLANNING AND ZONING

Signature: *John...*
DATE: 9-18-85

PLANNING DIRECTOR
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

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

Signature: *Joseph...*
DATE: 9-16-85

HEALTH OFFICER

APPROVED: DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER & SEWER AND STORM DRAINAGE SYSTEMS AND ROADS.

Signature: *...*
DATE: ...

DIRECTOR, PUBLIC WORKS

Signature: *...*
DATE: ...

CHIEF, BUREAU OF ENGINEERING

Signature: *...*
DATE: ...

SUBDIVISION NAME: WARFIELD'S RANGE
SECTION/AREA: 2/1
LOT NO: 6, 18, 19

PLAT NO./L.F.: 5989
BLOCK NO./ZONE: 24/19
TAX/ZONE: 1220/41/4C

ELEC. DIST: 6TH
CENSUS TR.: 0002

WATER CODE: E-17
SEWER CODE: G000000

SITE DEVELOPMENT PLAN
WARFIELD'S RANGE
SECTION TWO AREA ONE
LOTS 6, 18, 19
P/O PARCEL 80
TAX MAP 41 & 42

GTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
REVISED AUGUST 29, 1985
JULY 20, 1985

SCALE: 1" = 30'

SHEET 1 OF 1

S.D.P. 80-25