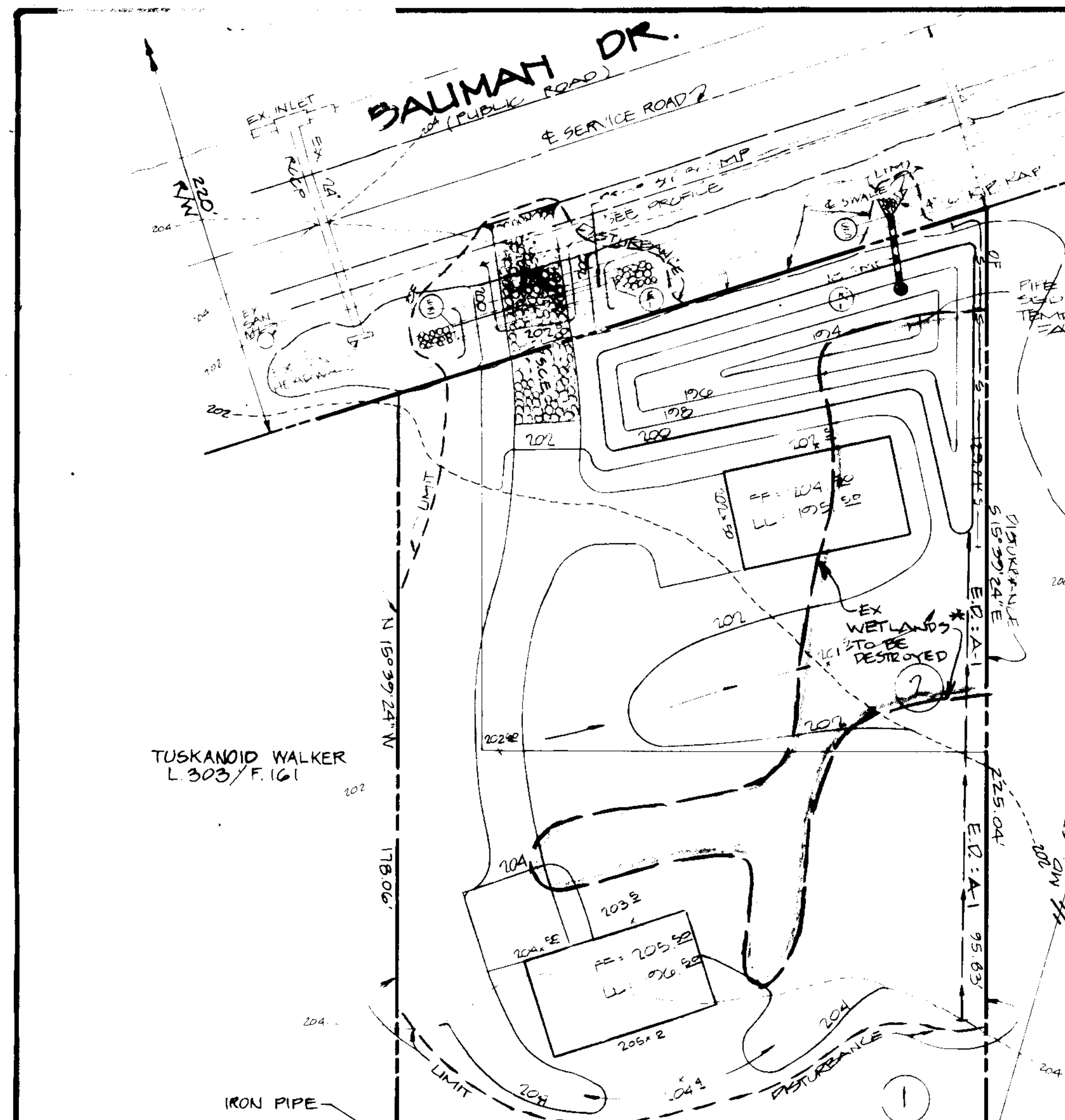


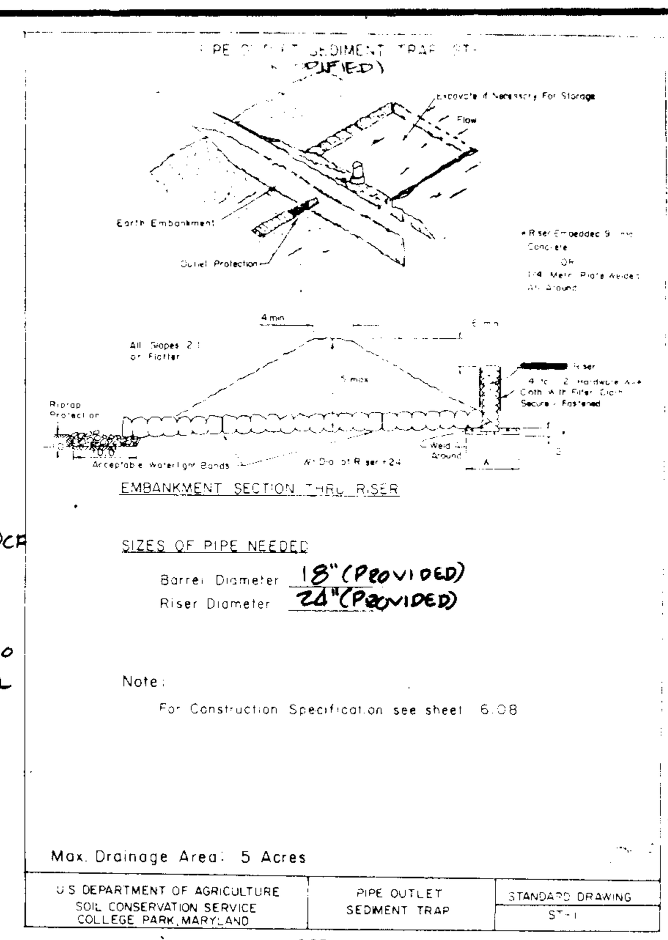
PIPE OUTLET SEDIMENT TRAP NO. 1

DRAINAGE AREA = 0.9 Ac±
STORAGE REQ'D = 1800x0.9 = 1620 CF
STORAGE PROVIDED = 1635 CF
BOTTOM DIM'S. = 48' x 3'
BOTTOM ELEV. = 194.00
CLEANOUT ELEV. = 195.30
CREST ELEV. = 197.75
EMBANKMENT ELEV. = 200.00
PIPE DIAMETER: AS SHOWN
DEPTH = 2.6' IN DETAIL
SIDE SLOPES = 3:1

* ALL EXIST WETLANDS ONSITE ARE TO BE DESTROYED IN ACCORDANCE WITH PERMIT NO 90-WQ-0526

GRADING, SEDIMENT CONTROL & TEMPORARY S.W.M. PLAN

SCALE: 1" = 30'

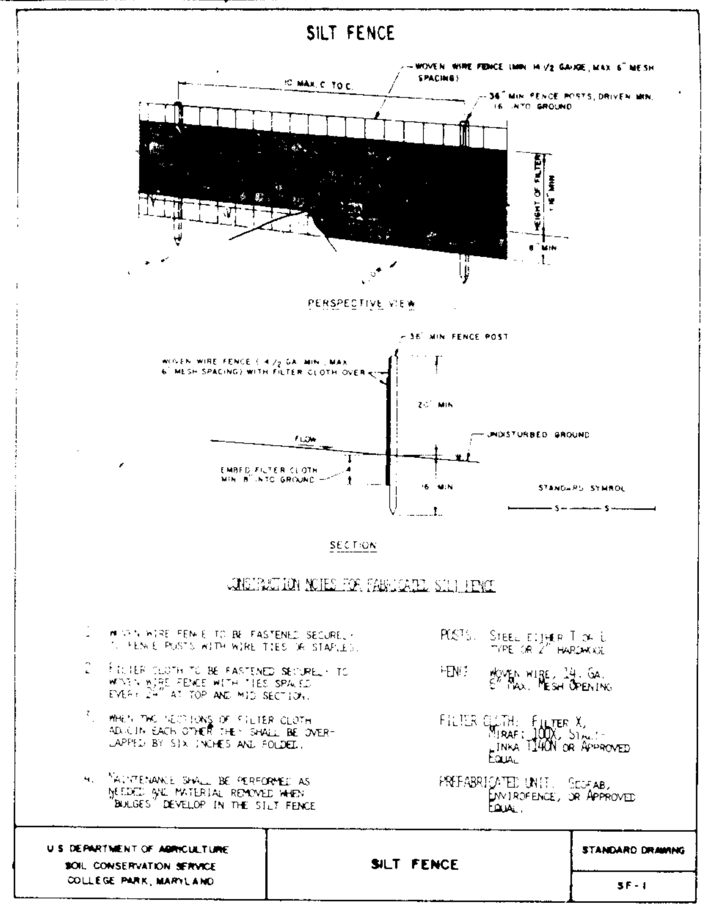


Maryland SCS/WRA April 1983

Pipe Outlet Trap
CONSTRUCTION SPECIFICATION FOR ST-I

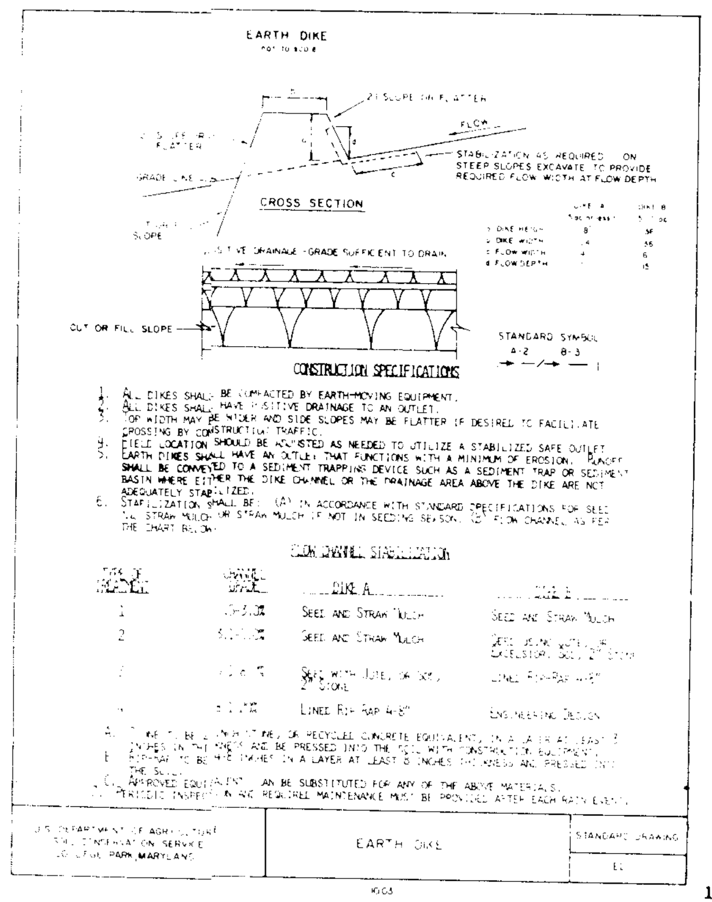
1. Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
2. The fill material for the embankment shall be free of roots or other woody vegetation as well as oversized stones, rocks, organic material, or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
3. Volume of sediment storage shall be 1800 cubic feet per acre of contributory drainage.
4. 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.
5. The structure shall be inspected after each rain and repairs made as needed.
6. Construction operations shall be carried out in such a manner that erosion and water pollution are minimized.
7. The structure shall be removed and area stabilized when the drainage area has been properly stabilized.
8. All fill slopes shall be 2:1 or flatter; cut slopes 1:1 or flatter.
9. All pipe connections shall be watertight.
10. The top 2/3 of the riser shall be perforated with one (1) inch diameter holes or slits spaced six (6) inches vertically and horizontally and placed in the concave portion of pipe. No holes will be allowed within six (6) inches of the horizontal barrel.
11. The riser shall be wrapped with 1/4 to 1/2 inch hardware cloth wire then wrapped with filter cloth (having an equivalent sieve size of 40 - 80). The filter cloth shall extend six (6) inches above the highest hole and six (6) inches below the lowest hole. Where ends of filter cloth come together, they shall be overlapped, folded and stapled to prevent bypass.
12. Straps or connecting bands shall be used to hold the filter cloth and wire fabric in place. They shall be placed at the top and bottom of the cloth.
13. Fill material around the pipe spillway shall be hand compacted in four (4) inch layers. A minimum of two (2) feet of hand-compacted backfill shall be placed over the pipe spillway before crossing it with construction equipment.
14. The riser shall be anchored with either a concrete base or steel plate base to prevent flotation. For concrete bases the depth shall be 12 inches with the riser embedded nine (9) inches. A 1/4 inch minimum thickness steel plate shall be attached to the riser by a continuous weld around the bottom to form a watertight connection and then place two (2) feet of stone, gravel, or tamped earth on the plate.

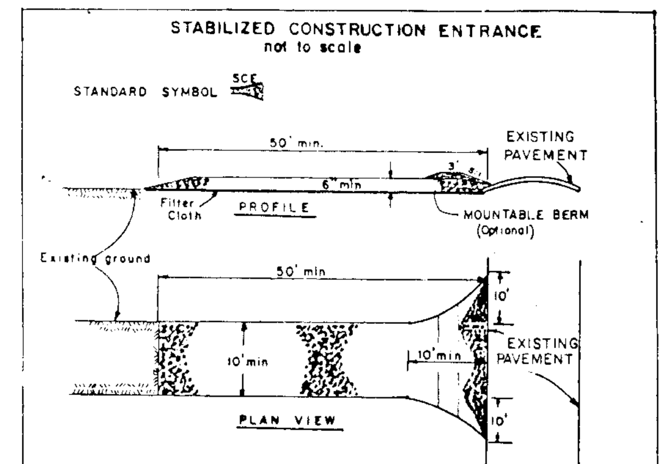
16.08



CONSTRUCTION SEQUENCE

1. OBTAIN A GRADING PERMIT.
2. NOTIFY THE BUREAU OF INSPECTIONS SURVEYS @ 792-7272 AT LEAST 24 HRS. PRIOR TO BEGINNING GRADING.
3. INSTALL DRIVEWAY CULVERT IN ONE DAY. SIDE SLOPES OF DRIVEWAY SHALL BE STABILIZED IMMEDIATELY WITH PEGGED SOD.......1 DAY
4. INSTALL STABILIZED CONSTRUCTION ENTRANCE.......................1 DAY
5. INSTALL SEDIMENT TRAP, EARTH DIKE AND SILT FENCE...............3 DAYS
6. ROUGH GRADE SITE...2 DAYS
7. CONSTRUCT DWELLINGS..1 MO.
8. APPLY PERMANENT STABILIZATION TO ENTIRE SITE....................2 DAYS
9. REMOVE SEDIMENT TRAP WITH APPROVAL FROM INSPECTOR BY:
   A. PUMP ANY STANDING WATER ONTO A STABILIZED OUTFALL.
   B. REMOVE ANY SILT AND DEPOSIT IT ON A SITE WITH APPROVED SEDIMENT CONTROL.
   C. GRADE OUT TRAP...2 DAYS
10. WITH PERMISSION OF INSPECTOR REMOVE REMAINING SEDIMENT CONTROL DEVICES..2 DAYS
11. APPLY PERMANENT STABILIZATION TO ALL REMAINING DISTURBED AREAS..2 DAYS





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-1

14.03

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 if not previously loosened.
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 sq. 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 acres 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 through April 30, and August 1 through October 15, seed with 60 lbs per acre (1.4 lbs/1000 sq. ft.) of Kentucky 31 Tall Fescue. For the period May 1 through 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 through 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 1 1/2 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.
Maintenance 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 if not previously loosened.
Soil Amendments: Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq. ft.)
Seeding: For periods March 1 through April 30 and from August 15 through November 15, seed with 2 1/2 bushels per acre of annual rye (3.2 lbs/1000 sq. ft.) For the period May 1 through August 14, seed with 3 lbs per acre of weeping lovegrass (.07 lbs/1000 sq. ft.) For the period November 16 through 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 1/2 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 ft. or higher, use 348 gallons per acre (3 gal/1000 sq. ft.) for anchoring.

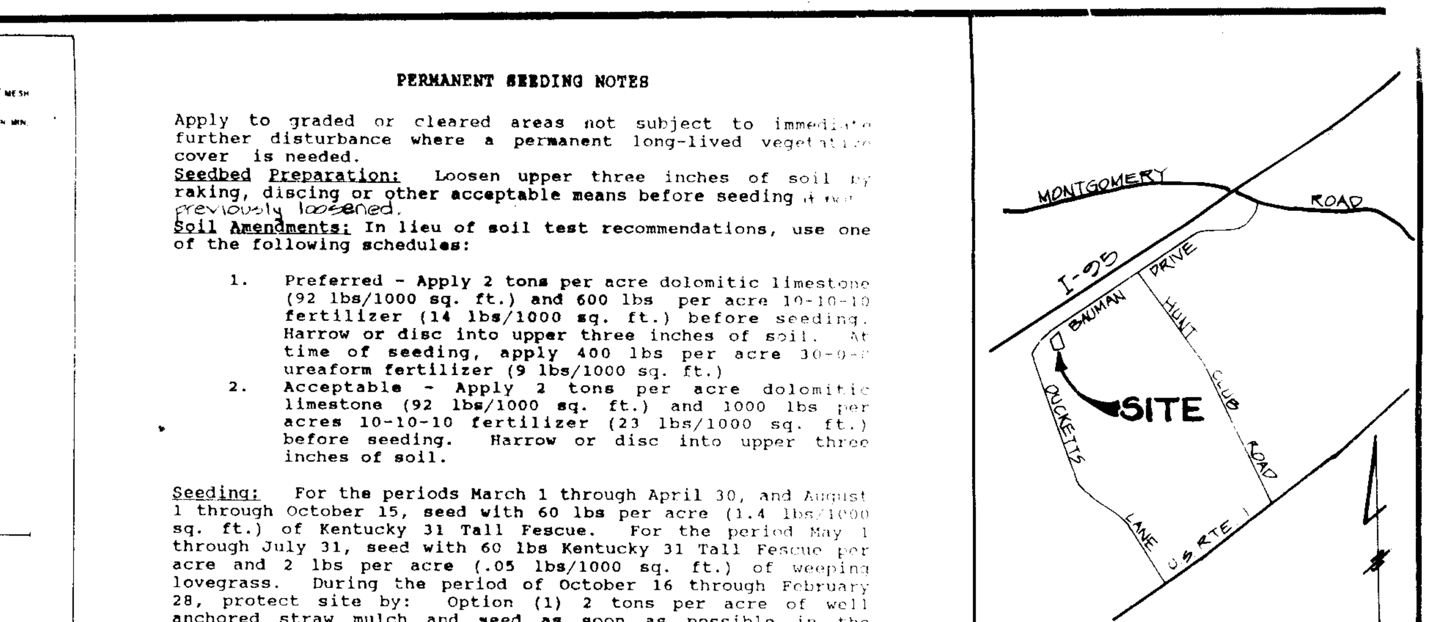
Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

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, 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 MANAGEMENT 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	0.646	Acres
Area Disturbed	0.590	Acres
Area to be roofed or paved	0.125	Acres
Area to be vegetatively stabilized	0.465	Acres
Total Cut	—	Cu. Yds.
Total Fill	—	Cu. Yds.
Offsite waste/borrow location:	0	

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.



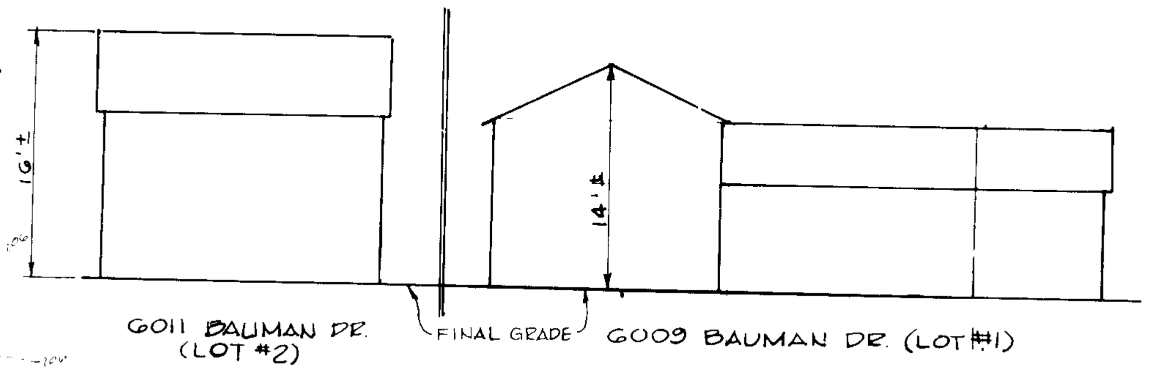
VICINITY MAP
SCALE 1" = 2000'

GENERAL NOTES

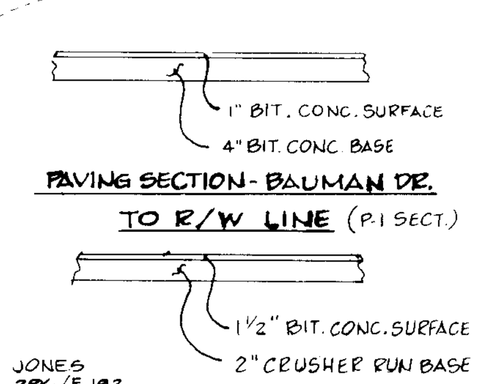
1. TAX MAP: 37, BLOCK: 7, PARCEL 348
2. DEED REF.: L.1907 F.484
3. TOPOGRAPHY SHOWN HEREON IS BASED ON 1" = 200' AERIAL TOPOGRAPHY AND FIELD INVESTIGATIONS BY CHILDRESS, NASON & BROWNE, INC.

SITE ANALYSIS

1. AREA OF PARCEL: 0.6463 AC
2. EX. ZONING: R-12
3. PARKING REQ'D: 2 SPACES/SFD UNIT = 4 TOTAL
4. PARKING PROVIDED: 2/SFD UNIT 4 SPACES
5. OPEN SPACE: 0.521 AC
6. BUILDING COVERAGE OF SITE: 0.084 AC



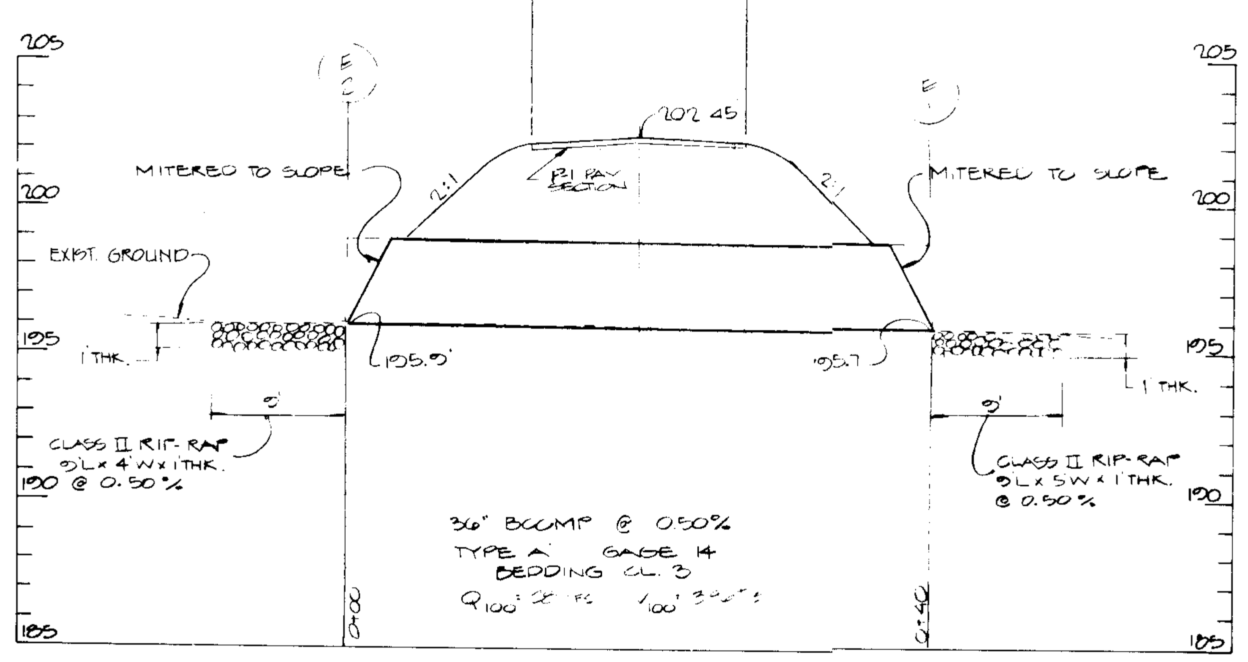
SCHEMATIC FRONT ELEVATIONS
NO SCALE



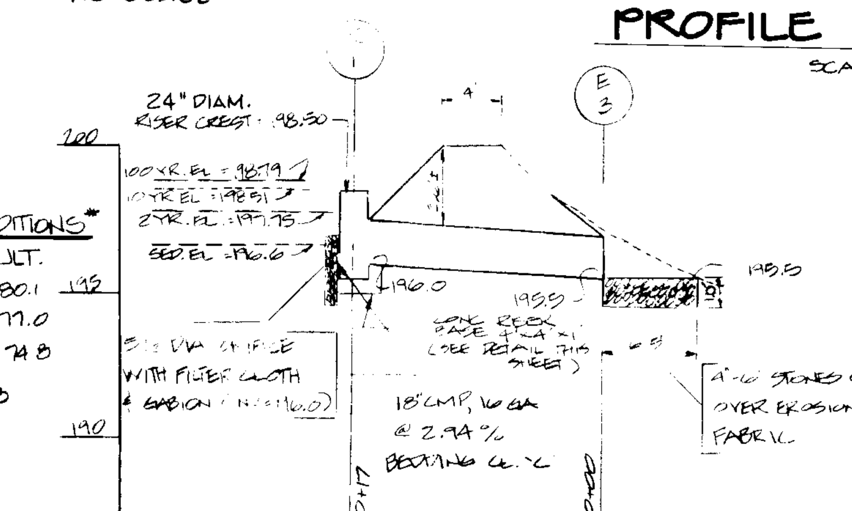
PAVING SECTION - BAUMAN DR. TO R/W LINE (P.1 SECT.)

PAVING SECTION - ON-SITE

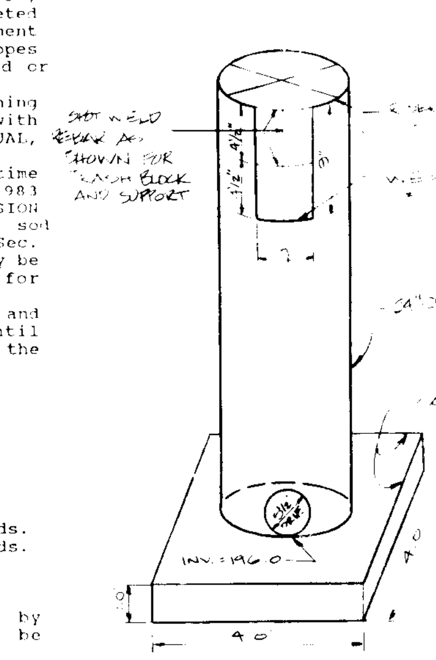
DRIVEWAY PAVING SECTIONS
NO SCALE

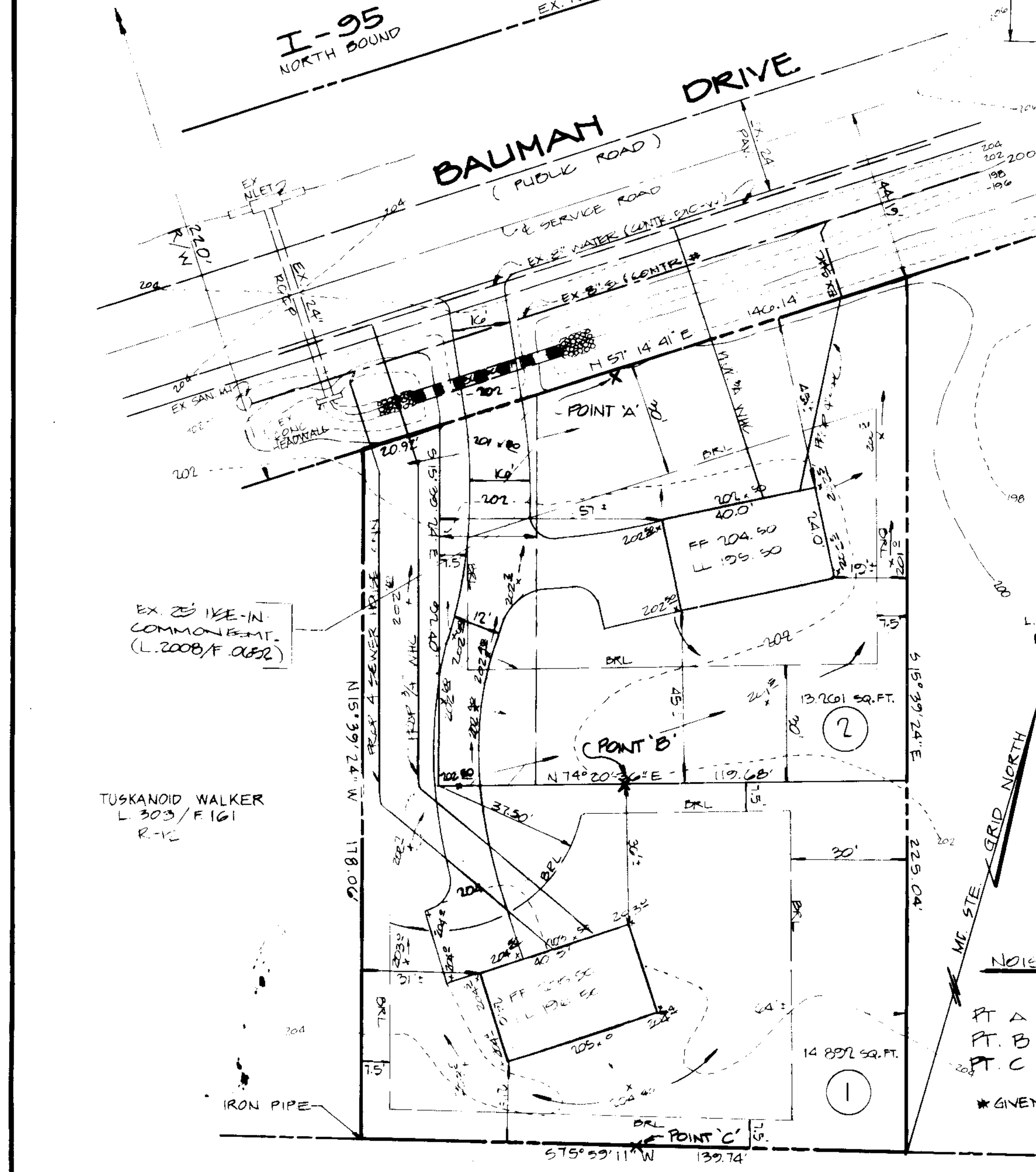


PROFILE OF 36" CULVERT
SCALE: HORZ. 1" = 10'
VERT. 1" = 5'



PRINCIPAL SPILLWAY
SCALE: HOR.: 1" = 10'
VERT.: 1" = 5'





NOISE CONDITIONS*

	EX.	ULT.
PT. A	76.1	80.1
PT. B	72.9	77.0
PT. C	70.8	74.8

*GIVEN IN dB

SITE DEVELOPMENT PLAN

SCALE: 1" = 30'

GENERAL NOTES OF CONSTRUCTION

1. All work shall be performed in accordance with the Howard County Design Manual, Vol. IV, i.e., standard specifications and details for construction.
2. Approximate location of existing utilities are shown. The contracter shall take all necessary precautions to protect the existing utilities and maintain uninterupted service. Any damage incurred due to contractor's operation shall be repaired immediately at the contractor's expense.
3. The contractor shall test pit for existing utilities at least five (5) days prior to starting work shown on these drawings.
4. Contractor shall notify the following utilities at least five (5) days prior to beginning work shown on these drawings.
   Miss utility 559-0100
   Bell telephone system 393-3649
   Long distance cable division........393-3553/3554
   Baltimore Gas & Electric Company....539-8000
   Howard County Bureau of Utilities...992-2366
   Howard County Construction/Inspection Survey Division (24 hours notice prior of commencent of work) 792-7272
5. All fill areas within roadways and/or under structures to be compacted to a minimum 95% compaction.
6. The contractor shall maintain positive drainage at all times to Pipe outlet Sediment Trap #1 during grading operations.

NOTE: ARCHITECTURAL DESIGN FOR LOTS 1 & 2 SHOULD BE ADEQUATE TO REDUCE INTERIOR NOISE LEVELS TO A MAXIMUM OF 45 dB. THIS DESIGN IS NOT PART OF THESE PLANS.

DEV. / OWNER
JOSEPH T. LOVERDE, JR.
34 DRAWBRIDGE COURT
BALTO., MD 21228
788-0411

ADDRESS CHART

LOT #	STREET ADDRESS
1	6009 BAUMAN DRIVE
2	6011 BAUMAN DRIVE

SUBDIVISION NAME			SECT./AREA		LOTS	
NASON PROPERTY, LTS 1 & 2			—		1 & 2	
PLAT # 7963	BLOCK # 12	ZONE R-12	TAX/ZONE MAP 37	ELECT. DIST.: 1ST	CENS. TRACT 6012	
WATER CODE D 07			SEWER CODE 2152247			

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
Joyce M. Boyd [signature] — County Health Officer — Date 8-5-91

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
[signature] — Director — Date 8/8/91
[signature] — Chief, Division of Community Planning and Land Development — Date 8/5/91

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[signature] — Director Acting — Date 7/26/91
[signature] — Chief Bureau of Engineering — Date 7-26-91

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS
[signature] — U.S. Soil Conservation Service — Date 7/17/91

THIS DEVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
John R. Robertson [signature] — Soil Conservation District — Date 7/17/91

DEVELOPER'S CERTIFICATION

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 THE 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.

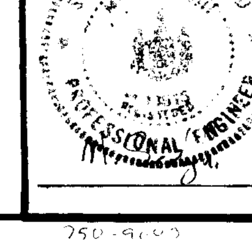
[signature] (AGENT) — DEVELOPER — DATE July 11, 1991

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.

Mike Sedghi — ENGINEER — DATE 1-22-91

No.	BY	REVISIONS	DATE



TITLE: SITE DEVELOPMENT PLAN
PROJECT: NASON PROP., LTS. 1 & 2
O.P.&Z. FILE NOS.: F-88-224
TAX MAP: 37, BLOCK: 12, PARCEL: 348
1st ELECTION DISTRICT; HOWARD COUNTY, MD.

DES. BY:	DRAWN BY:	CHKD. BY:	DATE:
JTN/BLC/TLB	JLC/BLC	JTN	FEB., 1989

CHILDRESS, NASON, & BROWNE, INC.
109 EASTFORD COURT
BALTO., MD 21234
(301) 254-0701

SCALE: NOTED | SHEET 1 OF 1

SDP-89-169