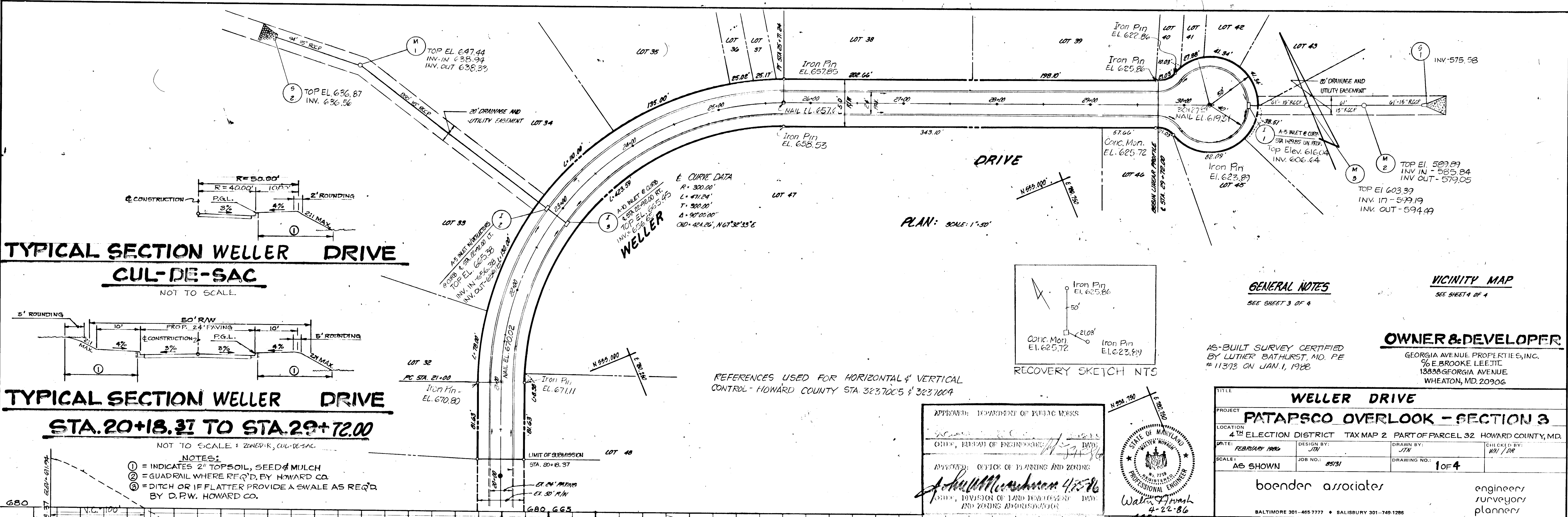
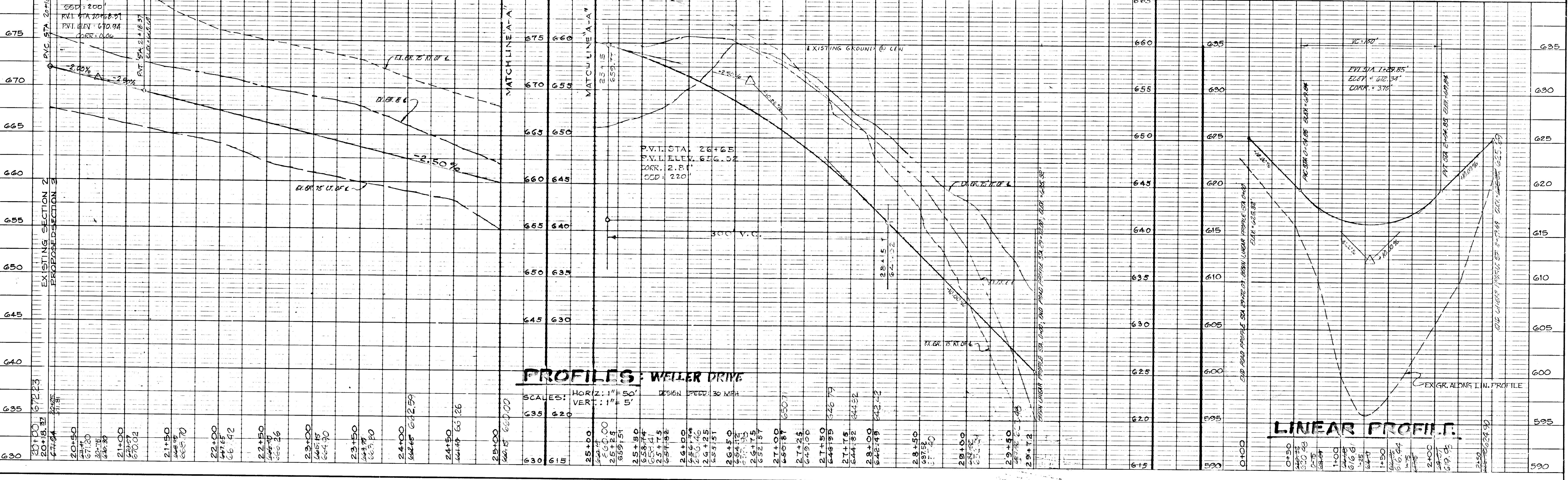


DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 PLAN: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 NO. \_\_\_\_\_



DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 PROFILE: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 NO. \_\_\_\_\_



#1176



TRAP NO.	D.A. (AC)	VOLUME	BOTTOM SIZE	STORMS DEPTH	BOTTOM ELEV.	SPILLWAY ELEV.	C.O. ELEV.	TYPE	S.C.S. MAN. PAGE	TOP OF BEAM	SPILLWAY WIDTH
1	4.8	8640 C.F.	30" x 75"	3'	647.0	651.0	648.50	STONE OUTLET	16.12	652.0	2.0'
2	10.8	19440 C.F.	46" x 120"	3'	565.1	569.0 AT 1/4 OF BEAM	566.4	RIPRAP OUTLET	16.13	573.0	14'

**SEDIMENT TRAP SCHEDULE**

**Definition**  
Installing jute or excelsior matting on a prepared seed - or planting - bed of a channel or steep slope to be stabilized with vegetation.

**Purpose**  
To aid in controlling erosion on critical sites during establishment period of protective vegetation.

**Conditions Where Practice Applies**  
In channels where designed flow exceeds 3.5 feet per second; on short, steep slopes where erosion hazard is high and planting is likely to be slow to establish adequate protective cover; on tidal or stream banks where moving water is likely to wash out new vegetative plantings.

**MATERIALS**

- Jute mat shall be cloth of a uniform plain weave of unbleached and unretted single jute yarn, 48 inches in width plus or minus 1 inch and weighing an average of 1.2 pounds per linear yard of cloth with a tolerance of plus or minus 5 percent, with approximately 78 warp ends per width of cloth and 41 weft ends per linear yard of cloth. The yarn shall be of a loosely twisted construction having an average twist or not less than 1.6 turns per inch and shall not vary in thickness by more than one-half its normal diameter.
- Excelsior mat shall be wood excelsior, 48 inches in width plus or minus 1 inch and weighing 0.8 pounds per square yard plus or minus 10 percent. The excelsior material shall be covered with a netting to facilitate handling and to increase strength.
- Glass fiber matting of bonded textile glass fibers with an average fiber diameter of 6 to 12 microns, 2 to 4 inch strands of fiber bonded with phenol formaldehyde resin. Mat shall be roll type, water permeable, minimum thickness 3/8 inch, maximum thickness 1/2 inch, density not less than 3 pounds per cubic foot.
- Staples - staples for anchoring soil stabilizing materials shall be No. 11 gauge wire or heavier. Their length shall be 6 to 10 inches. Use the longer staples of loose, unstable soils.

**INSTALLATION REQUIREMENTS**

**Site Preparation:** After site has been shaped and graded to approved design, prepare a friable seedbed relatively free from clods and rocks more than 1/4 inches in diameter, and any foreign material that will prevent contact of the protective mat with the soil surface.

**Planting:** Live, fertilizer, and seed in accordance with seeding or other type of planting plan, except when using jute matting on a seeded area, apply approximately one-half the seed after laying the mat. The protective matting can be laid over stripped areas where small grass plants have been planted. Where ground covers are to be planted, lay the protective matting first and then plant through the matting according to design of planting.

**Erosion Stops:** (For use on steep, highly erodible watercourses) Erosion stops are made of glass fiber strips, excelsior matting strips or tightly folded jute matting blanket or strips. They are placed in narrow trenches 6 to 12 inches deep across the channel and left flush with the soil surface. They are to cover the full cross-section of designed flow.

**How Used:** Under jute or excelsior matting.

**Location:**

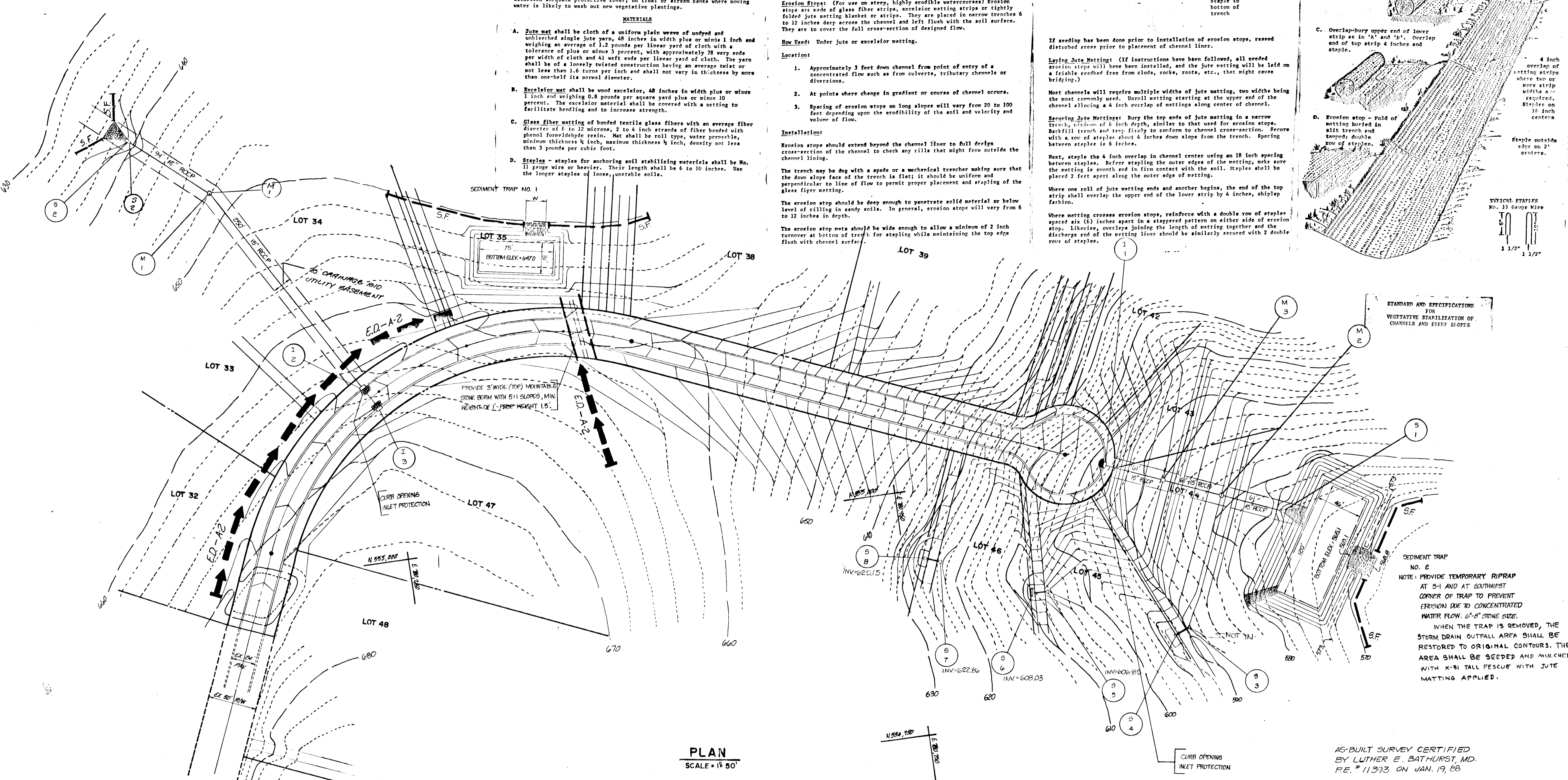
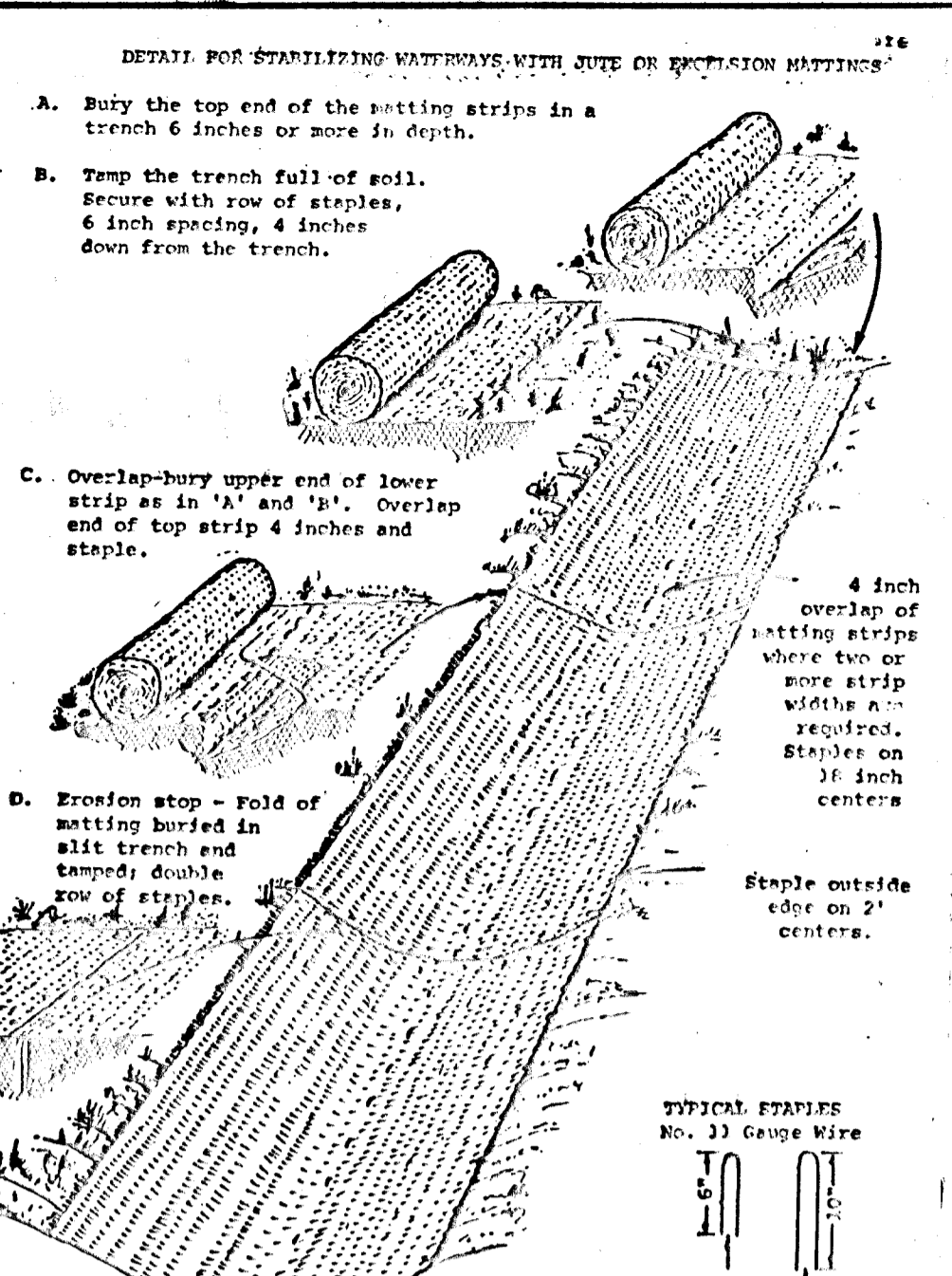
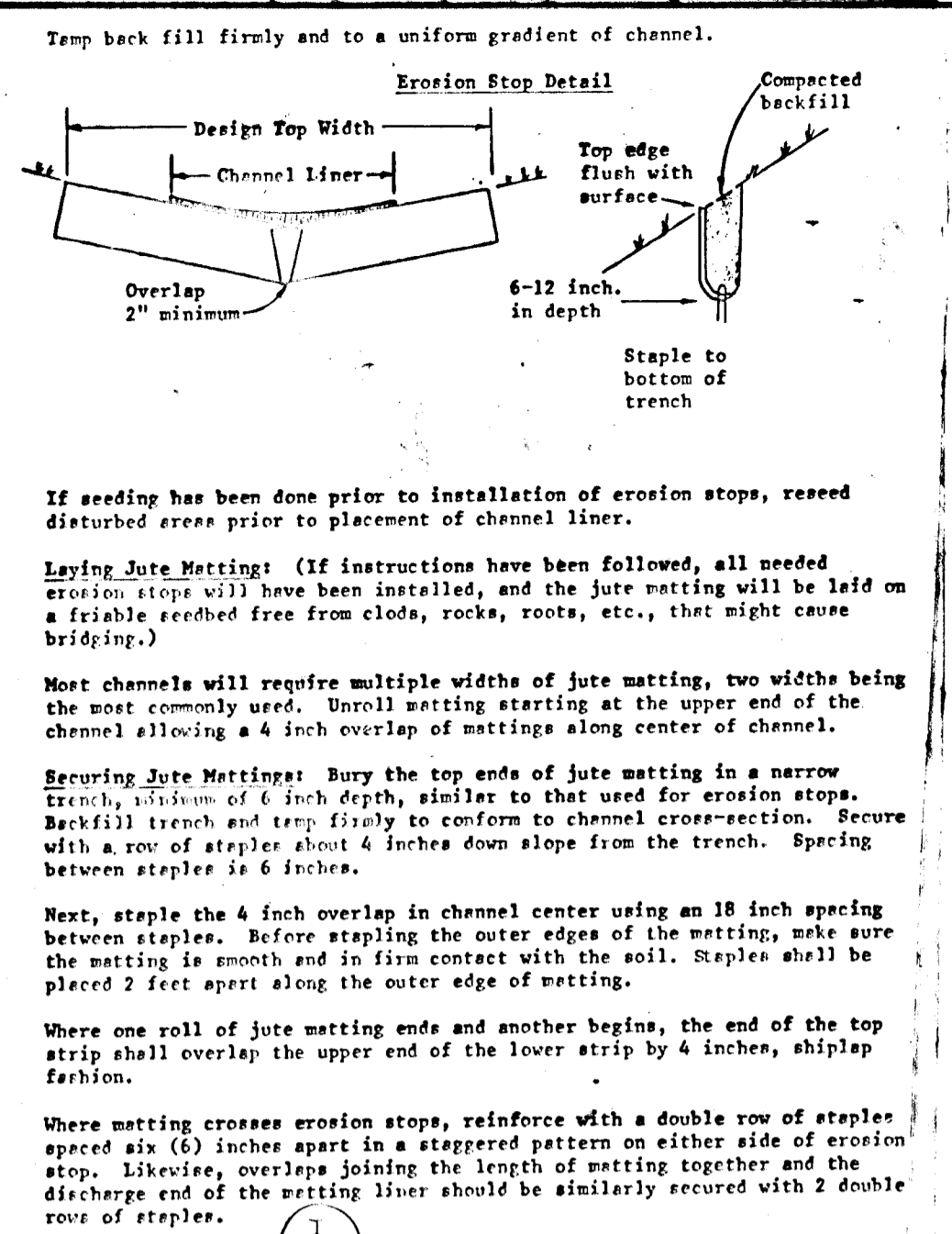
- Approximately 3 feet down channel from point of entry of a concentrated flow such as from culverts, tributary channels or diversions.
- At points where change in gradient or course of channel occurs.
- Spacing of erosion stops on long slopes will vary from 20 to 100 feet depending upon the erodibility of the soil and velocity and volume of flow.

**Installation:**  
Erosion stops should extend beyond the channel liner to full design cross-section of the channel to check any rills that might form outside the channel lining.

The trench may be dug with a spade or a mechanical trencher making sure that the down slope face of the trench is flat; it should be uniform and perpendicular to line of flow to permit proper placement and stapling of the glass fiber matting.

The erosion stop should be deep enough to penetrate solid material or below level of filling in sandy soils. In general, erosion stops will vary from 6 to 12 inches in depth.

The erosion stop mats should be wide enough to allow a minimum of 2 inch turnover at bottom of trench for stapling while maintaining the top edge flush with channel surface.



**PLAN**  
SCALE = 1" = 50'

**OWNER & DEVELOPER**  
GEORGIA AVENUE PROPERTIES, INC.  
1/4 E BROOKE LEF  
13838 GEORGIA AVENUE  
WHEATON, MD. 20906

**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.

**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'S CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.  
*Stephan L. Hahn* 4-24-86  
U.S. SOIL CONSERVATION SERVICE

APPROVED: DEPARTMENT OF PUBLIC WORKS  
*Michael E. P. O'Neil* 5-16-86  
CHIEF, BUREAU OF ENGINEERING

APPROVED: OFFICE OF PLANNING AND ZONING  
*John W. Macomber* 4-23-86  
CHIEF, DIVISION OF LAND DEVELOPMENT, PLANNING AND ZONING APPROVAL DIVISION

STATE OF MARYLAND  
REGISTERED PROFESSIONAL ENGINEER  
*Walter P. Frank*  
4-22-86

TITLE: SEDIMENT CONTROL & GRADING PLAN  
PROJECT: PATAPSCO OVERLOOK SECTION 3  
LOCATION: 4th ELECTION DISTRICT HOWARD CO., MD.  
SCALE: AS SHOWN  
DESIGNED BY: J.N.  
DRAWN BY: J.N.  
CHECKED BY: M.N./D.P.  
DATE: FEB. 1986  
FIELD BOOK: PAGE NO.: JOB NO.: 85131 DRAWING NO.: 201

**boender associates inc.**  
consulting engineers  
land surveyors  
land planners  
COURTHOUSE SQUARE  
3565 ELLICOTT MILLS DRIVE  
ELLICOTT CITY, MD. 21043  
(301) 465-7777

#1176



**SEDIMENT CONTROL NOTES**

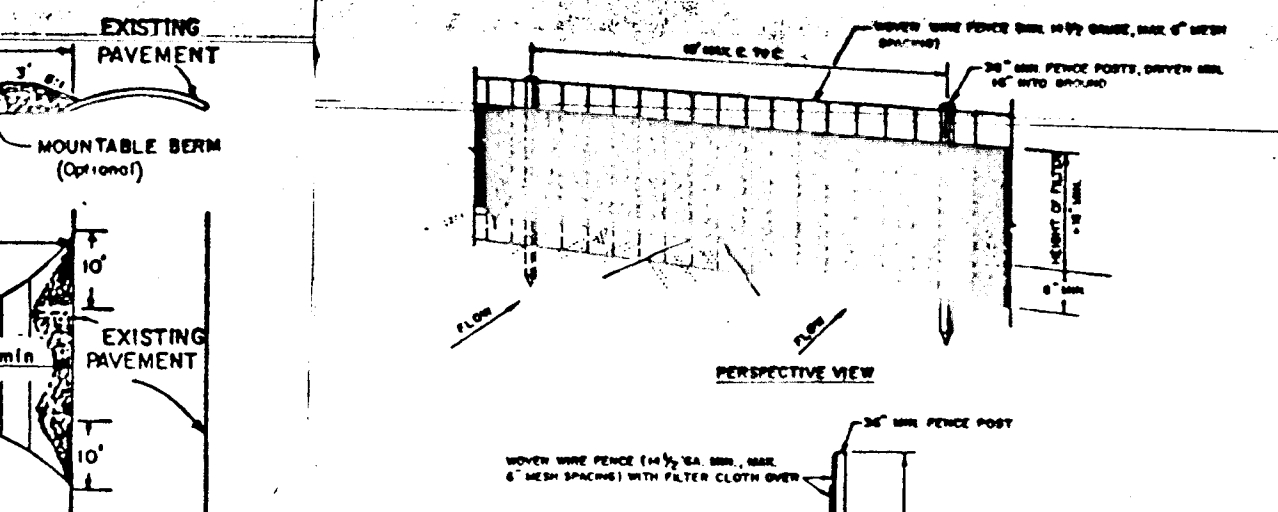
- 1) A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permitting prior to the start of any construction. (292-2437)
- 2) All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 HARTLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- 3) Following initial soil disturbance or redistribution, 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 for all other disturbed or graded areas on the project site.
- 4) All sediment control structures shall 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 HARTLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 31) and (Sec. 34), temporary seedings (Sec. 30) and mulching (Sec. 32). 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 Department of Inspection.
- 7) Site Analysis:
  - Total Area of Site: \_\_\_\_\_ Acres
  - Area Disturbed: \_\_\_\_\_ Acres
  - Area to be regraded or paved: \_\_\_\_\_ Acres
  - Area to be vegetatively stabilized: \_\_\_\_\_ Acres
  - Total Cut: \_\_\_\_\_ Cu. Yds.
  - Total Fill: \_\_\_\_\_ Cu. Yds.
  - Off-site 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 control must be provided, if deemed necessary by the Howard County SPM 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 control, 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.

**PERMANENT SEEDING NOTES**

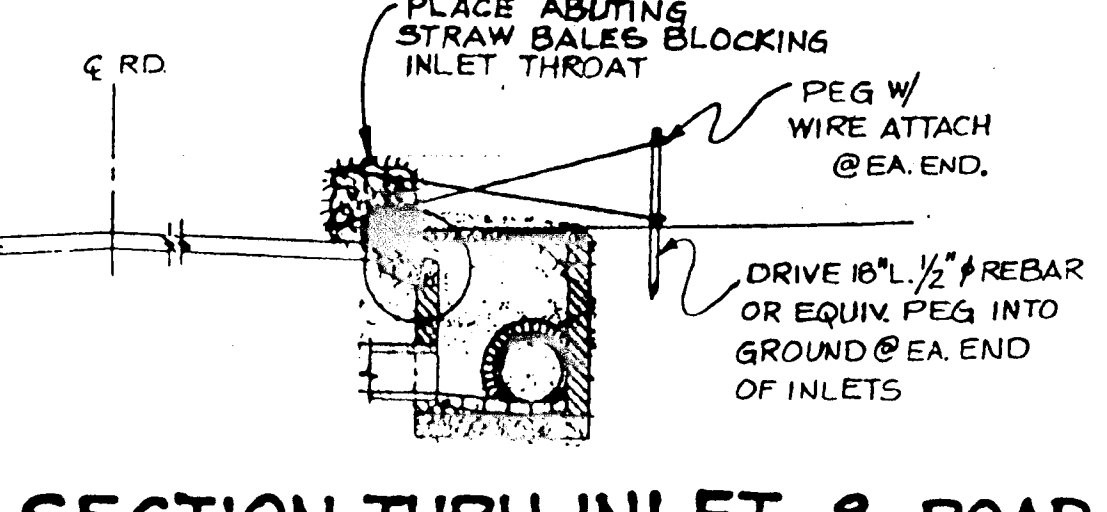
- Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.
- Soil Preparation:** Loosen upper three inches of soil by raking, disking or other acceptable means before seeding.
- Soil Amendments:** In lieu of soil test recommendations, use one of the following substances:
- 1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 400 lbs per acre 10-10-10 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 ureaformal 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 (12 lbs/1000 sq ft) before seeding. Narrow 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 seeding legumes. 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 small with 2 tons/acre well anchored straw.
- Mulching:** Apply 1/4 to 3 tons per acre (70 to 90 lbs/1000 sq ft) of untreated small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 2 1/2 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 3/4 gallon per acre (8 gal/1000 sq ft) for anchoring.
- Maintenance:** Inspect all seeded areas and make needed repairs, replacements and reseedings.

**TEMPORARY SEEDING NOTES**

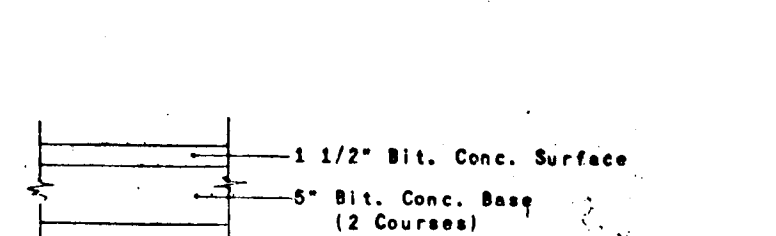
- Apply to graded or cleared areas likely to be redistributed where a short-term vegetative cover is needed.
- Soil Preparation:** Loosen upper three inches of soil by raking, disking or other acceptable means before seeding.
- Soil Amendments:** Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft)
- Seeding:** For periods March 1 thru April 30 and from August 1 thru November 15, seed with 24 bushels per acre of annual ryegrass (3.2 lbs/1000 sq ft). For the period May 1 thru August 31, seed with 3 lbs per acre of seeding legumes (.07 lbs/1000 sq ft). For this 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 3 tons per acre (70 to 90 lbs/1000 sq ft) of untreated small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 2 1/2 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 ft or higher, use 3/4 gal per acre (8 gal/1000 sq ft) for anchoring.
- Maintenance:** Inspect all seeded areas and make needed repairs, replacements and reseedings.



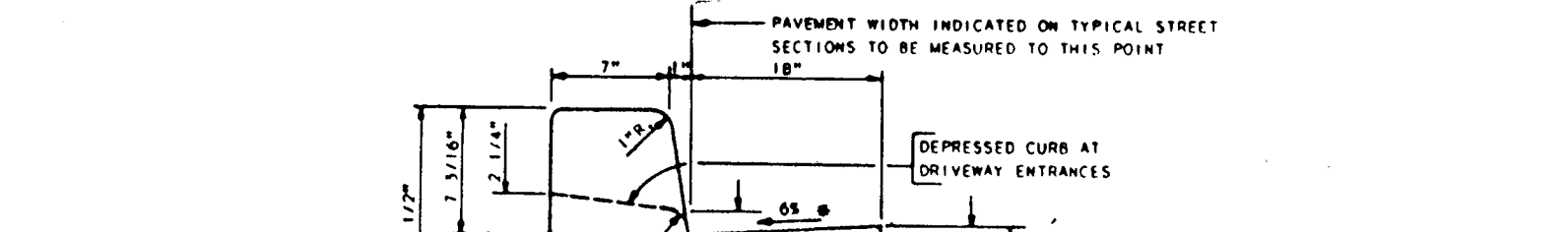
- CONSTRUCTION SPECIFICATIONS**
1. Stone Size - Use 3" stone, or reclaimed or recycled concrete equivalent.
  2. Length - As required, but not less than 30 feet (except on a single residence lot where a 30 foot minimum length would apply).
  3. Thickness - Not less than six (6) inches.
  4. Width - Ten (10) feet minimum, but not less than the full width at points where ingress or egress occurs.
  5. Surface Material - All surface water flowing or directed toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
  6. 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.
  7. Surface Water - All surface water flowing or directed toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
  8. 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 cleanup of any measures used to trap sediment. All sediment applied, dropped, washed or tracked onto public rights-of-way must be removed immediately.
  9. 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.
  10. Periodic Inspection and needed maintenance shall be provided after each rain.
- CONSTRUCTION NOTES FOR PROPOSED SILT FENCE**
1. WHEN THIS FENCE IS TO BE FASTENED TO EXISTING PAVEMENT OR CONCRETE, IT SHALL BE FASTENED TO THE PAVEMENT OR CONCRETE WITH 1/2" DIA. STEEL ANCHOR BOLTS WITH WELDED WINGS.
  2. FILTER CLOTH TO BE FASTENED TO EXISTING PAVEMENT OR CONCRETE WITH 1/2" DIA. STEEL ANCHOR BOLTS WITH WELDED WINGS.
  3. WHEN THIS FENCE IS TO BE FASTENED TO EXISTING PAVEMENT OR CONCRETE, IT SHALL BE FASTENED TO THE PAVEMENT OR CONCRETE WITH 1/2" DIA. STEEL ANCHOR BOLTS WITH WELDED WINGS.
  4. MAINTENANCE SHALL BE PROVIDED AS REQUIRED TO KEEP THE FENCE IN PROPER WORKING ORDER.



- CONSTRUCTION SPECIFICATIONS FOR ST-71**
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 or 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 back into the upstream face of the outlet stone or a one (1) foot thick layer of two (2) inch or finer aggregate shall be placed on the upstream face of the outlet.
  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 finer 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.



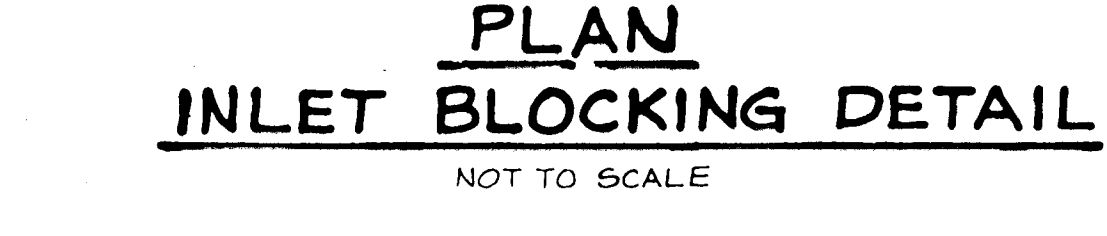
**TYPICAL PAVING SECTION - 12**  
WELLER DRIVE - CUL-DE-SAC - ZONED-R



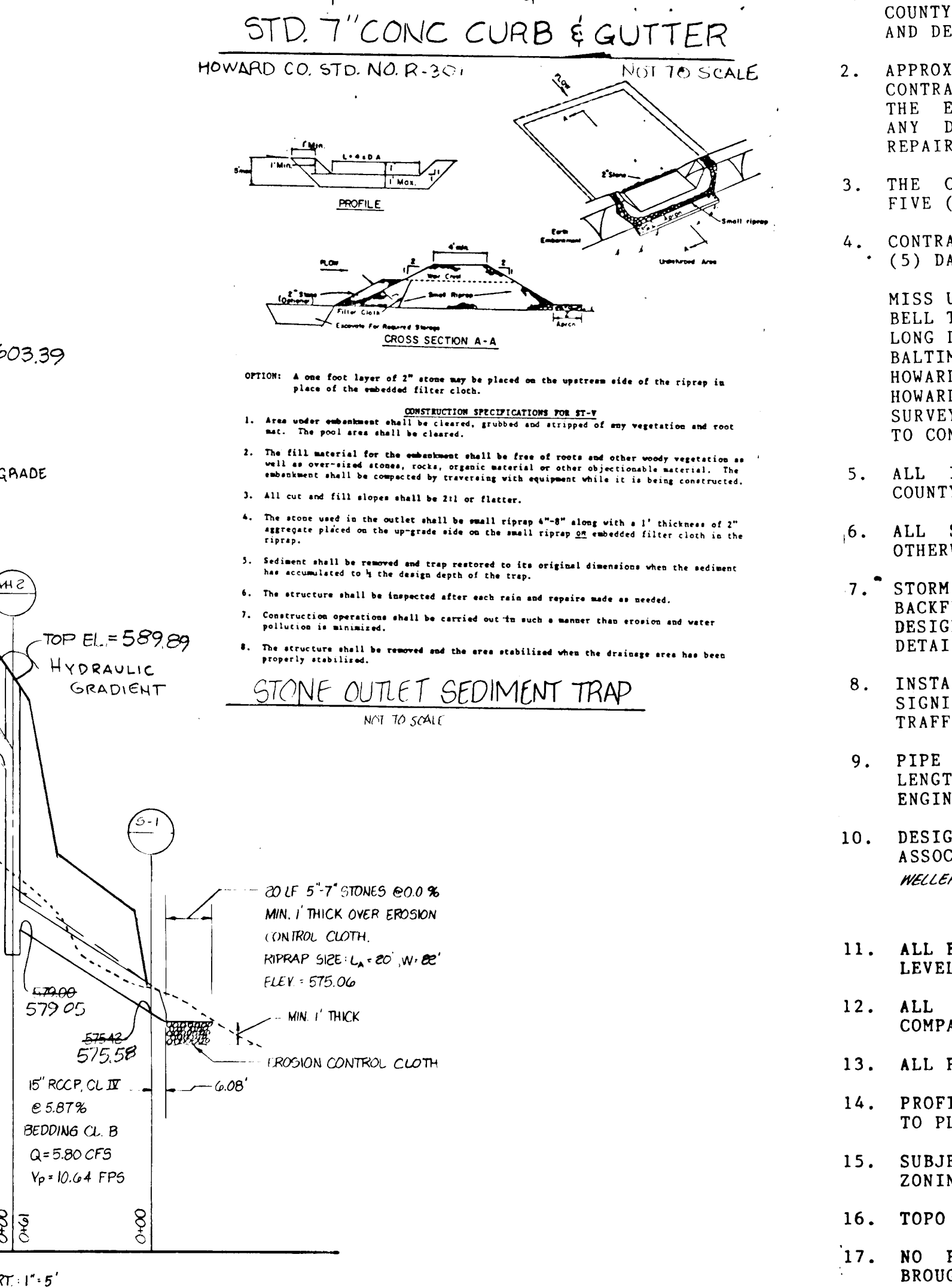
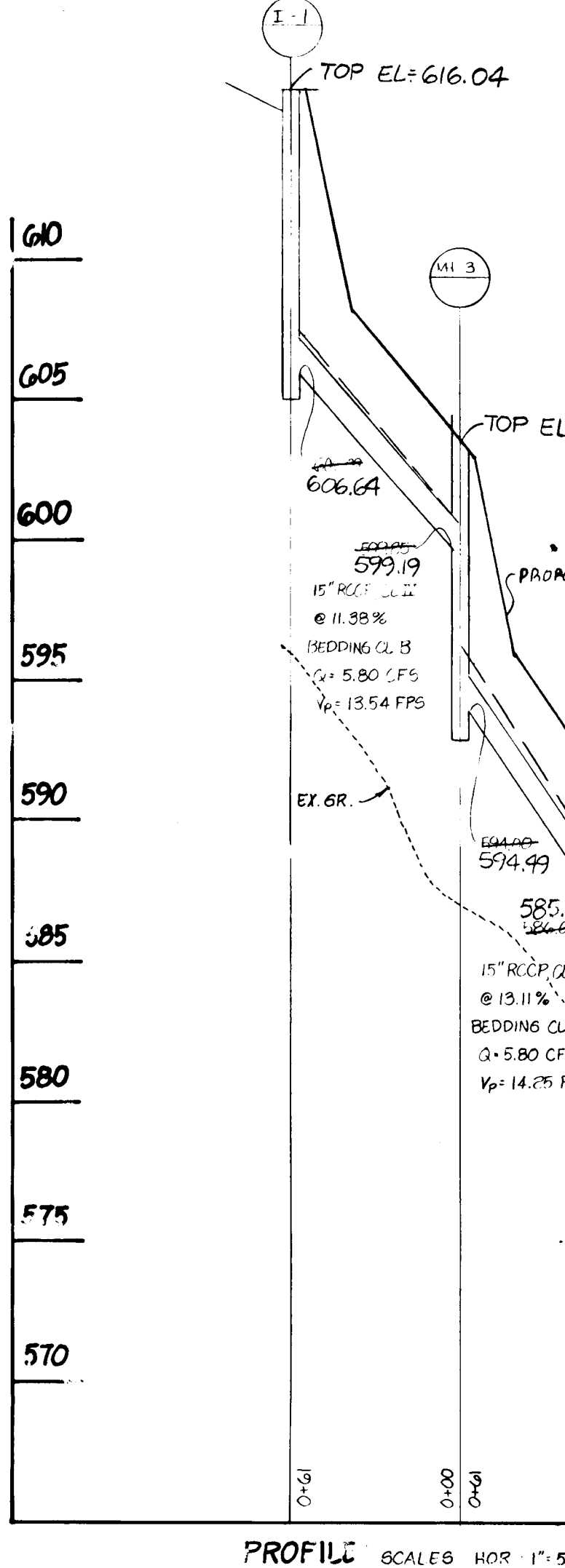
**STD. 7" CONC. CURB & GUTTER**  
HOWARD CO. STD. NO. R-301



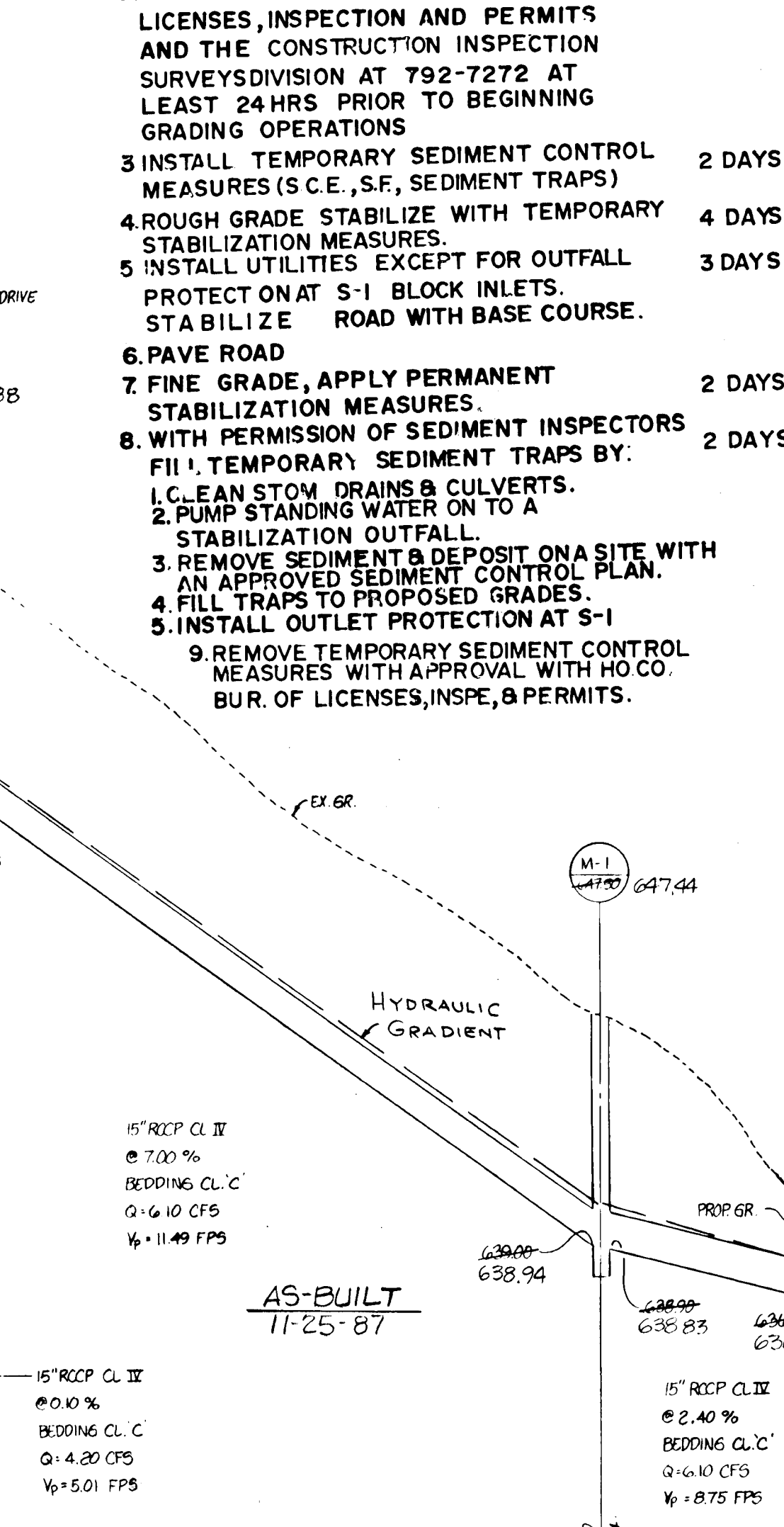
**STONE OUTLET SEDIMENT TRAP**  
NOT TO SCALE



**PLAN INLET BLOCKING DETAIL**  
NOT TO SCALE

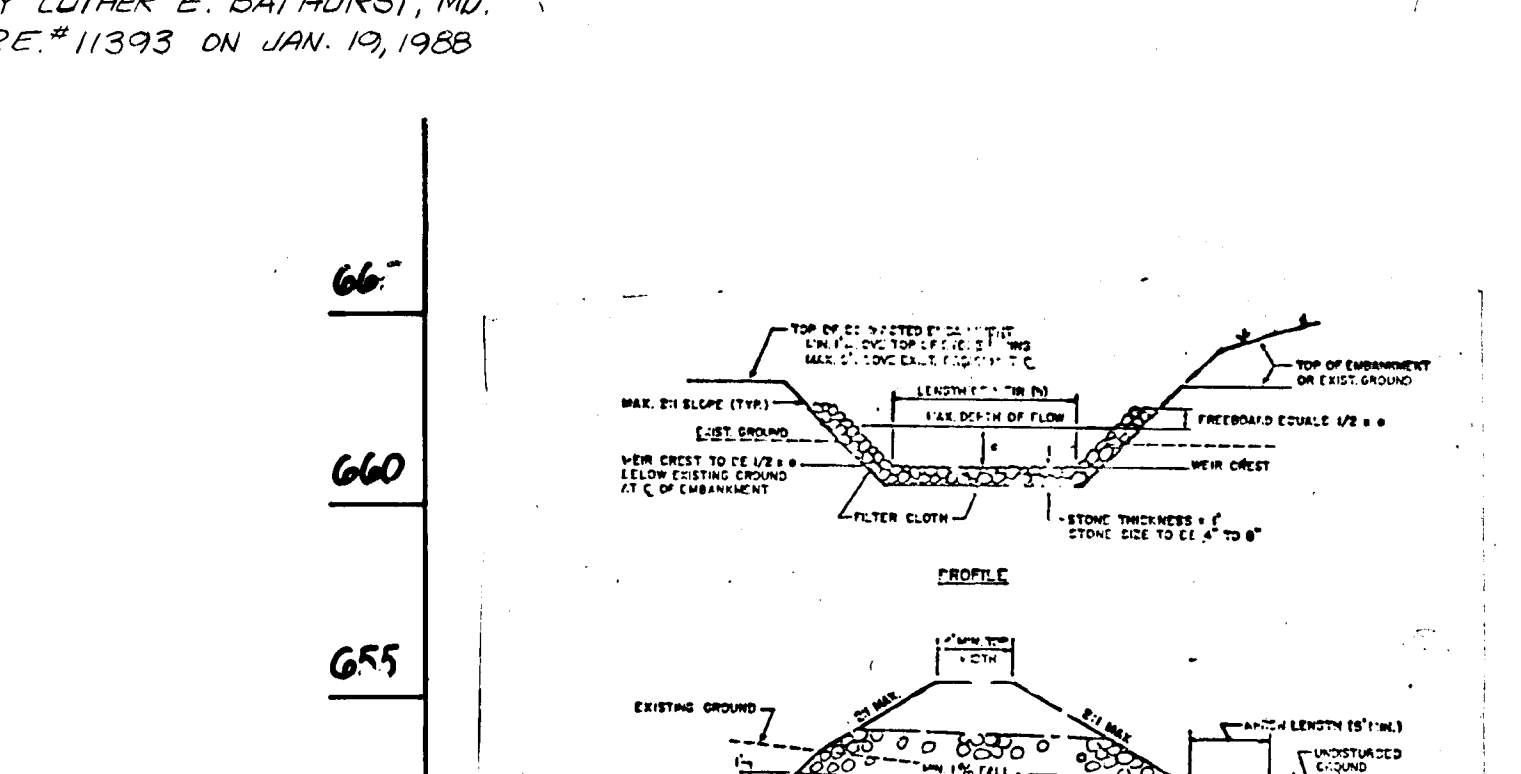


- GENERAL NOTES**
1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOL. IV, I.E., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
  2. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
  3. THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARING WORK SHOWN ON THESE DRAWINGS.
  4. CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARING WORK ON THESE DRAWINGS:
    - MISS UTILITY 559-0100
    - BELL TELEPHONE SYSTEM 393-3649
    - LONG DISTANCE CABLE DIVISION 393-3553 OR 3554
    - BALTIMORE GAS AND ELECTRIC COMPANY 539-8000, EXT. 691
    - HOWARD COUNTY BUREAU OF UTILITIES 992-2366
    - HOWARD COUNTY CONSTRUCTION/INSPECTION SURVEY DIVISION (24 HOURS NOTICE PRIOR TO COMMENCEMENT OF WORK) 792-7272
  5. ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
  6. ALL STREET CURB RETURNS SHALL HAVE 30.0' RADII UNLESS OTHERWISE NOTED.
  7. STORM DRAIN TRENCHES WITHIN ROAD RIGHT-OF-WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL, VOLUME IV, I.E., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
  8. INSTALLATION OF TRAFFIC CONTROL DEVICES, MARKING, AND SIGNING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES 1971 EDITION.
  9. PIPE SHALL NOT BE INSTALLED BY THE CONTRACTOR UNTIL THE LENGTH CALLED FOR AT EACH STATION HAS BEEN APPROVED BY THE ENGINEER IN THE FIELD.
  10. DESIGNED TRAFFIC SPEED IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIAL STANDARDS. WELLER DRIVE: 30 M.P.H.
  11. ALL ELEVATIONS SHOWN ARE BASED ON U.S.C. AND G.S.' MEAN SEA LEVEL DATUM, 1929.
  12. ALL FILL AREAS WITHIN ROADWAYS AND UNDER STRUCTURES TO BE COMPACTED TO A MINIMUM OF 95% COMPACTION.
  13. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
  14. PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
  15. SUBJECT PROPERTY ZONED PER 10-03-77 COMPREHENSIVE ZONING PLAN.
  16. TOPO TAKEN FROM FIELD RUN SURVEY DATED 11-25-87.
  17. NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT WITHIN 6" OF FINISHED GRADE.
  18. ALL STORM DRAIN PIPE BEDDING SHALL BE CLASS "B" SHOWN IN FIG. 11.4, VOLUME I OF HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE NOTED.



STRUCTURE SCHEDULE					
NO.	TYPE	INV. IN	IN/OUT	TOP EL.	REMARKS
I-1	A-5 INLET IN SWMP	-	606.99	606.99	HO. CO. STD. DET. SD 4.01.
I-2	A-5 INLET WITH DEFLECTORS	606.99	606.99	606.99	HO. CO. STD. DET.6. SD 4.01 & 4.83.
I-3	A-10 INLET	-	607.00	607.00	HO. CO. STD. DET. SD 4.02.
M-1	MANHOLE - PRECAST	606.99	606.99	607.00	HO. CO. STD. DET. SD 5.12.
M-2	DROP MANHOLE	606.99	606.99	607.00	HO. CO. STD. DET. SD 5.01.
M-3	DROP MANHOLE	606.99	606.99	607.00	HO. CO. STD. DET. SD 5.01.
S-1	CONCRETE ENDSPECTION (15')	606.99	606.99	607.00	HO. CO. STD. DET. SD 5.52.
S-2	CONCRETE ENDSPECTION (15')	606.99	606.99	607.00	HO. CO. STD. DET. SD 5.52.
S-3	METAL ENDSPECTION - 18" DRIVEWAY CULVERT	588.5	588.0	589.5	HO. CO. STD. DET. SD 5.61.
S-4	METAL ENDSPECTION - 18" DRIVEWAY CULVERT	588.5	588.0	589.5	HO. CO. STD. DET. SD 5.61.
S-5	METAL ENDSPECTION - 18" DRIVEWAY CULVERT	588.5	588.0	589.5	HO. CO. STD. DET. SD 5.61.
S-6	METAL ENDSPECTION - 18" DRIVEWAY CULVERT	588.5	588.0	589.5	HO. CO. STD. DET. SD 5.61.
S-7	METAL ENDSPECTION - 18" DRIVEWAY CULVERT	588.5	588.0	589.5	HO. CO. STD. DET. SD 5.61.
S-8	METAL ENDSPECTION - 18" DRIVEWAY CULVERT	588.5	588.0	589.5	HO. CO. STD. DET. SD 5.61.

- CONSTRUCTION SEQUENCE**
1. OBTAIN GRADING PERMIT.
  2. NOTIFY HOWARD COUNTY BUREAU OF LICENSES, INSPECTION AND PERMITS AND THE CONSTRUCTION INSPECTION SURVEY DIVISION AT 792-7272 AT LEAST 24 HRS PRIOR TO BEGINNING GRADING OPERATIONS.
  3. INSTALL TEMPORARY SEDIMENT CONTROL MEASURES (S.C.E., S.F., SEDIMENT TRAPS) 2 DAYS
  4. ROUGH GRADE STABILIZE WITH TEMPORARY STABILIZATION MEASURES. 4 DAYS
  5. INSTALL UTILITIES EXCEPT FOR OUTFALL PROTECT ON AT S-1 BLOCK INLETS. STA BILIZE ROAD WITH BASE COURSE. 3 DAYS
  6. PAVE ROAD
  7. FINE GRADE, APPLY PERMANENT STABILIZATION MEASURES. 2 DAYS
  8. WITH PERMISSION OF SEDIMENT INSPECTORS INSTALL TEMPORARY SEDIMENT TRAPS BY: 2 DAYS
    - 1. CLEAN STORM DRAINS & CULVERTS.
    - 2. PUMP STANDING WATER ON TO A STABILIZATION OUTFALL.
    - 3. REMOVE SEDIMENT & DEPOSIT ON SITE WITH AN APPROVED SEDIMENT CONTROL PLAN.
    - 4. FILL TRAPS TO PROPOSED GRADES.
    - 5. INSTALL OUTLET PROTECTION AT S-1
    - 9. REMOVE TEMPORARY SEDIMENT CONTROL MEASURES WITH APPROVAL WITH HO. CO. BUR. OF LICENSES, INSP., & PERMITS.
- AS-BUILT SURVEY CERTIFIED BY LUTHER E. BATHURST, MD. P.E. # 11393 ON JAN. 19, 1988



**OWNER/DEVELOPER**  
GEORGIA AVENUE PROPERTIES, INC.  
30 E. BROOKE LEE III  
13930 GEORGIA AVENUE  
WHEATON, MD. 28106

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

U.S. SOIL CONSERVATION SERVICE DATE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Stephen L. Hahn 4/24/86  
HOWARD SOIL CONSERVATION DISTRICT

APPROVED: DEPARTMENT OF PUBLIC WORKS

Chief, Bureau of Engineering 5-18-86

APPROVED: OFFICE OF PLANNING AND ZONING

Chief, Div. of Land Development 4-25-86

AND ZONING ADMINISTRATION

I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, 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 WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS BUILT" PLAN OF THE POND WITHIN THIRTY DAYS OF COMPLETION.

Signature of Developer: Walter Thrash  
DATE: Feb 4, 1986

I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS BUILT" PLAN OF THE POND WITHIN THIRTY DAYS OF COMPLETION.

Signature of Engineer: Walter Thrash  
DATE: 2-25-86

TITLE: PROFILES AND DETAILS

PROJECT: PATAPSCO OVERLOOK-SECTION 3

LOCATION: 4th ELECTION DISTRICT HOWARD CO. MD.

SCALE: AS SHOWN

DESIGNED BY: JTH

DRAWN BY: JTH

CHECKED BY: M.H.D.R.

DATE: FEB 1986

FIELD BOOK: PAGE NO. JOB NO. DRAWING NO.

3 OF 4

boender associates inc. consulting engineers land surveyors land planners

COURTHOUSE SQUARE 3565 ELLICOTT MILLS DRIVE ELLICOTT CITY, MD. 21043 1301 465-7777



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

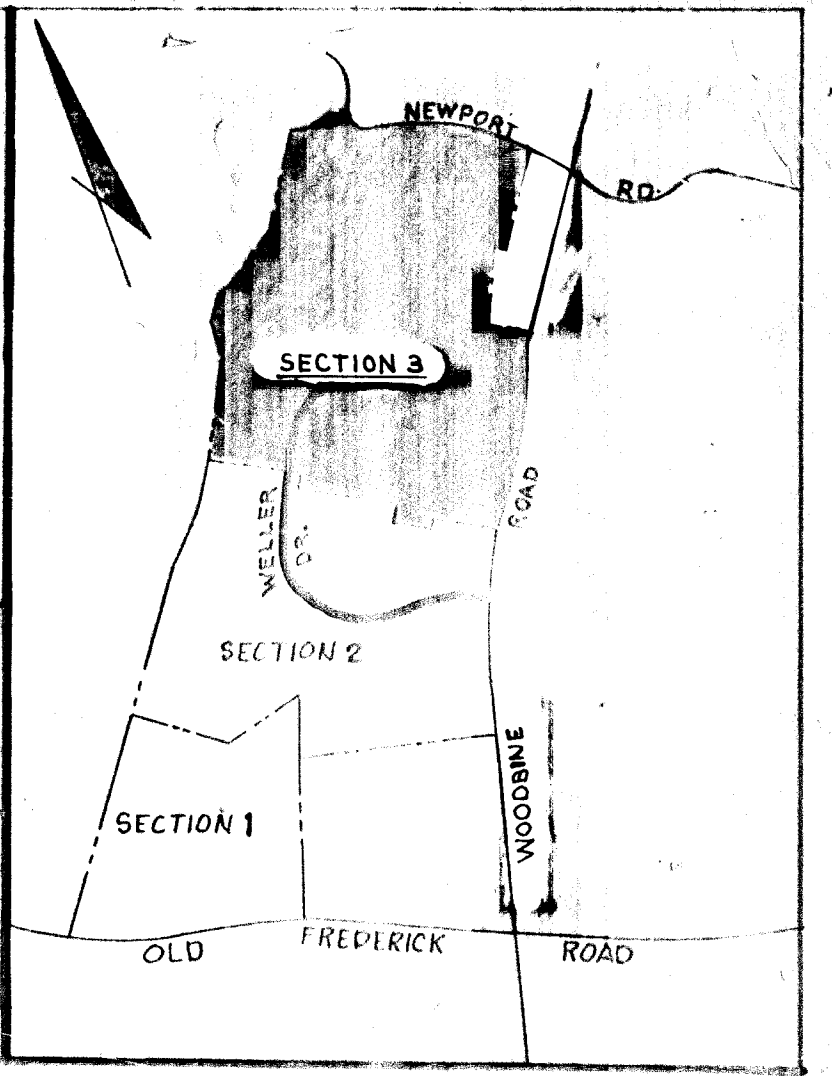
APPROVED: DEPARTMENT OF PUBLIC WORKS

CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: OFFICE OF PLANNING AND ZONING

CHIEF, DIVISION OF LAND DEVELOPMENT, AND ZONING ADMINISTRATION DATE

*John W. M... 4-25-86*

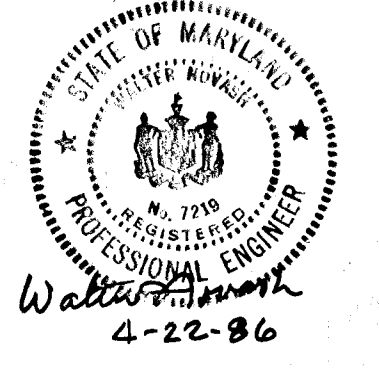


**GENERAL NOTES**

- TAX MAP 2 PART OF PARCEL 32 DEED REFERENCE 429/774
- EXISTING ZONING: R
- TOTAL NO. OF LOTS: 17
- TOTAL AREA OF LOTS: 83.1 AC±
- TOTAL AREA OF ROAD DEDICATION: 2.2 AC±
- TOTAL AREA OF SECTION 3: 85.3 AC±
- TOPOGRAPHY SHOWN HEREON IS BASED ON AERIAL PHOTOGRAPHY PREPARED BY POTOMAC AERIAL SURVEYS.
- WOODBINE RD. AND NEWPORT RD. ARE EXISTING PUBLIC ROADS.
- PRIVATE WATER AND SEWER TO BE UTILIZED.
- MINIMUM LOT SIZE: 3.0 ACRES.
- POSITIVE DRAINAGE TO BE MAINTAINED IN ALL DITCHES AND SWALES.
- ALL SEDIMENT CONTROL MEASURES TO BE PROVIDED ON FINAL PLANS.
- THE DESIGN OF THE ROADWAYS WITHIN THIS SUBDIVISION SHALL CONFORM TO THE REQUIREMENTS OF VOLUME III, OF THE HOWARD COUNTY DESIGN MANUAL.
- SEE OFFICE OF PLANNING & ZONING FILE 5-81-16, P-81-26, & P-81-33.

**PERCOLATION TEST DATA**

OLD LOT NO.	NEW LOT NO.	AVERAGE PERC TIME, IN MINUTES, FOR 2 INCH.	MAX. DEPTH PERMITTED FOR EFFLUENT PIPE TO ENTER SEWAGE DISPOSAL AREA AT ITS HIGHEST LEVEL WITH REF. TO EX. GRADE AT TIME OF TEST.
27	1	8 MIN.	3 FT.
28	2	15 MIN.	4 FT.
29/30	3	8 MIN.	4 FT.
30/32	4	10 MIN.	4 FT.
33	5	8 MIN.	3 FT.
34	6	8 MIN.	3 FT.
35	7	8 MIN.	4 FT.
36	8	8 MIN.	3 FT.
37	9	8 MIN.	3 FT.
38	10	8 MIN.	3 FT.
39	11	8 MIN.	4 FT.
40	12	8 MIN.	3 FT.
41	13	11 MIN.	3 FT.
42	15	8 MIN.	3 FT.
43	16	8 MIN.	3 FT.
44	17	10 MIN.	3 FT.



**OWNER & DEVELOPER**

GEORGIA AVENUE PROPERTIES, INC.  
 76 E BROOKLE LEE DR  
 18656 GEORGIA AVENUE  
 WHEATON, MD 20906

**DRAINAGE AREA MAP**  
**PATAPSCO OVERLOOK-SECTION 3**

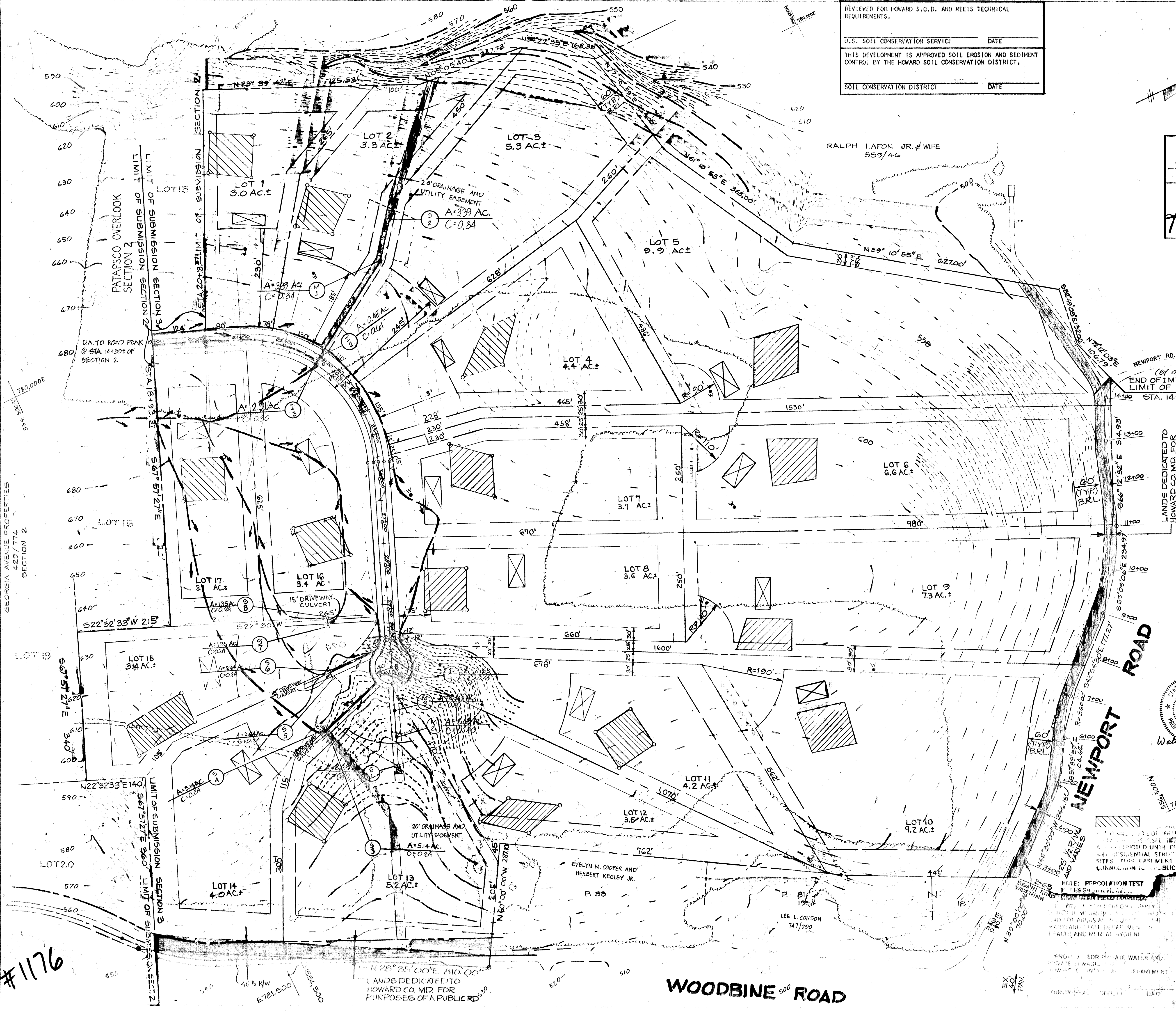
4TH ELECTION DISTRICT TAX MAP 2 PART OF PARCEL 32 HOWARD COUNTY, MD

APPROVED FOR PRIVATE WATER AND SEWER SERVICE BY THE DEPARTMENT OF PUBLIC WORKS

DATE: FEB. 1986

SCALE: 1"=100'

PROJECT NO: F-86-147



GEORGIA AVENUE PROPERTIES  
 429/774  
 SECTION 2

#1176

WOODBINE ROAD

NEWPORT ROAD