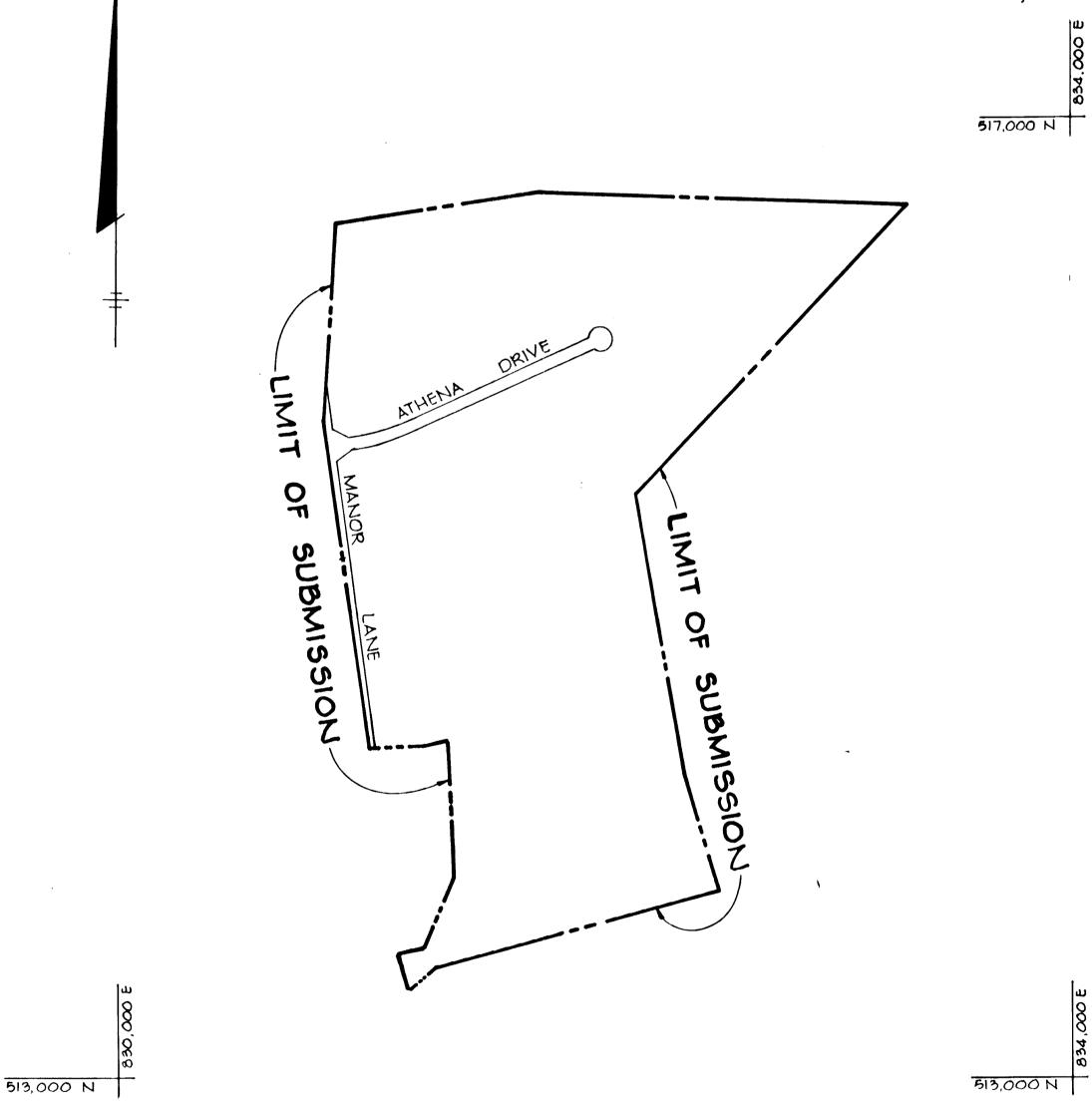
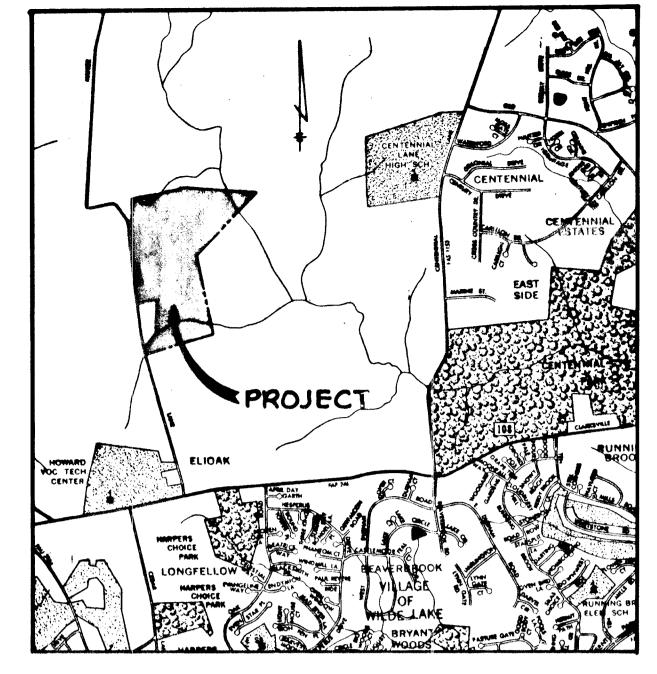
SHEET INDEX	
NO.	DESCRIPTION
)	TITLE SHEET
2	PLAN AND PROFILE OF ATHENA DRIVE
3	PLAN OF MANOR LANE, DETAILS & STORM DRAIN PROFILES
4	GRADING, SEDIMENT CONTROL & DRAINAGE AREA MAP
5	SEDIMENT CONTROL DETAILS

ROADWAY & STORM DRAIN

CARTHAGE MANOR

2 ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND





APPROVED: HOMVED COUNTY OFFICE OF FLYPAL. ZONING ADMINISTRATION APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC 4-24-81 /N REVISED AS PER H.C. COMMENTS DATED 3-25-81 DATE NO. REVISION OWNER / DEVELOPER MANOR LANE ASSOCIATES 3606 BELAIR ROAD BALTIMORE MARYLAND 21236 CARTHAGE MANOR AREA ELECTION DISTRICT HOWARD COUNTY, MD. TAX MAP Nº 29 PARCEL 2 TITLE: TITLE SHEET

OPERATIONS.

393-3553 OR 3554 539-8000, EXT. 691

HOWARD COUNTY CONSTRUCTION/INSPECTION 992-2417/2418

992-2366

INSTALLATION OF TRAFFIC CONTROL DEVICES, MARKING, AND SIGNING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES

6. 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.

7. DESIGNED TRAFFIC SPEED IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIAL STANDARDS: ATHENA DRIVE: 30 M.P.H.

8. ALL ELEVATIONS SHOWN ARE BASED ON U.S.C. AND G.S. MEAN SEA LEVEL DATUM

9. ALL FILL AREAS WITHIN ROADWAYS AND UNDER STRUCTURES TO BE COMPACTED TO

A MINIMUM 95% COMPACTION. 10. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.

11. PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN

12. SUBJECT PROPERTY ZONED R PER 10-03-77 COMPREHENSIVE ZONING PLAN.

PLAN SCALE : 1":400"



1.30.31

DRAWING NO. 1 OF 5

Riemer · Tracy & Associates, Inc.

8659 Baltimore National Pike Ellicott City, Maryland 21043

(301) 461-2690 Land Planning, Design & Civil Engineering

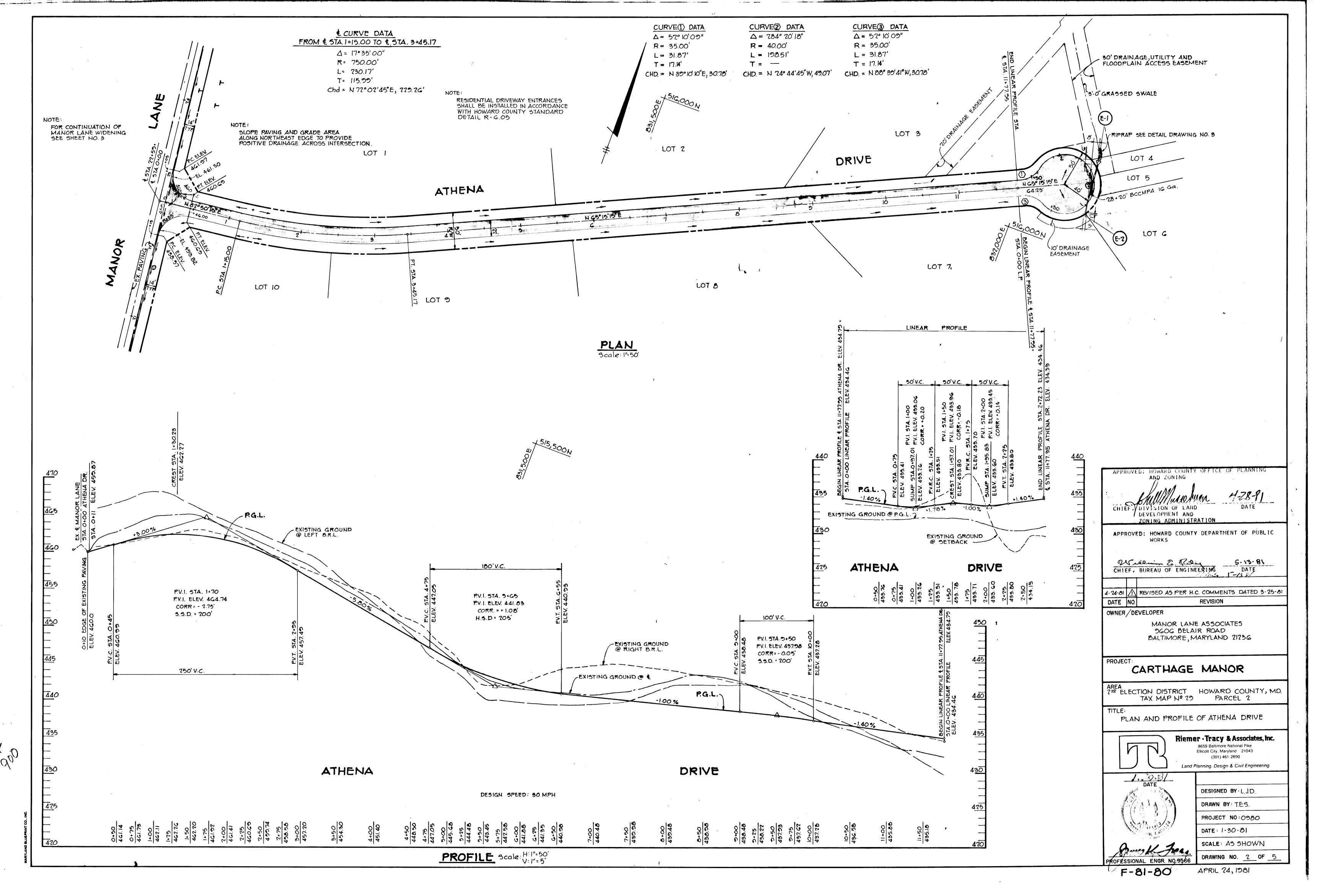
DESIGNED BY: L.J.D.

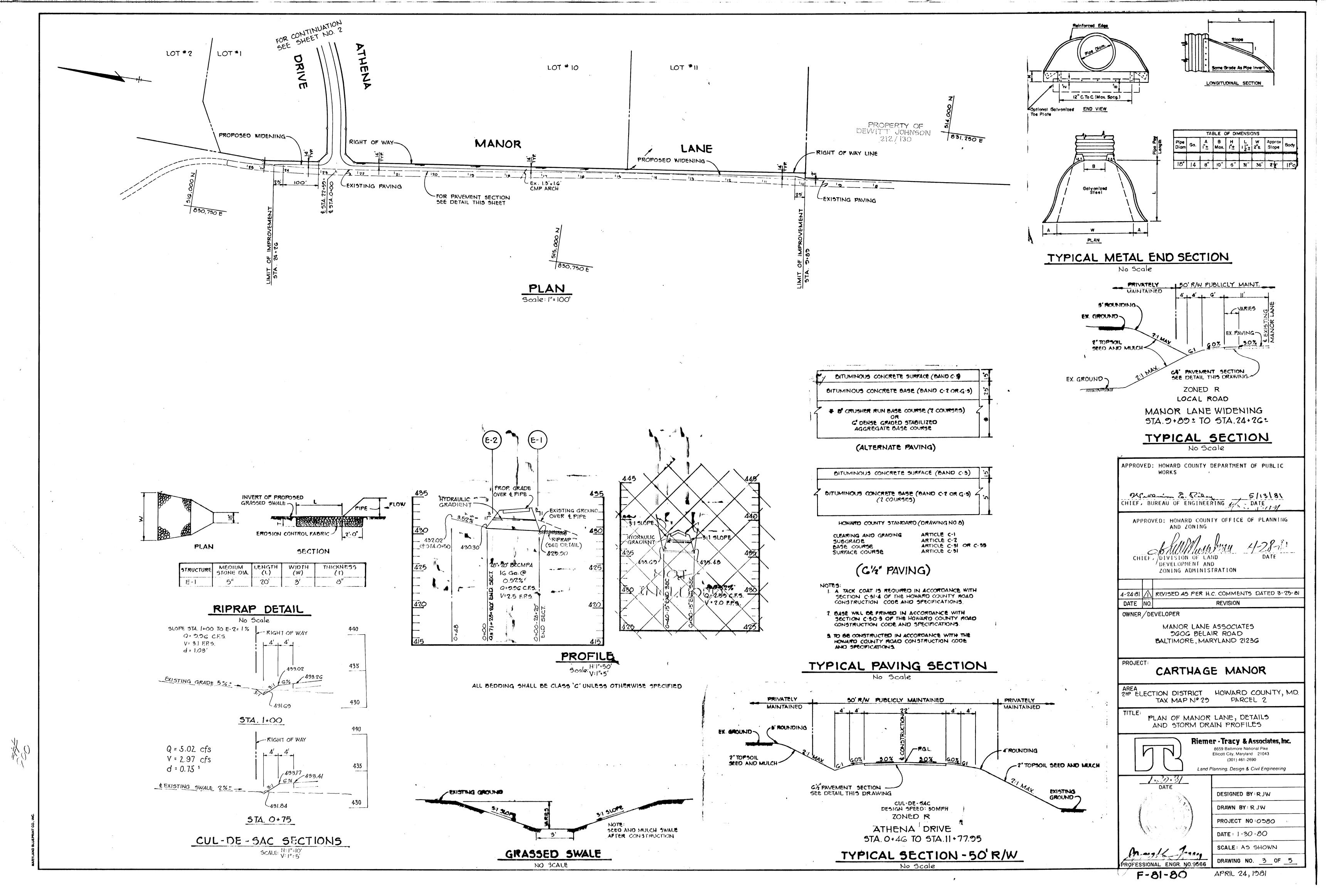
PROJECT NO:0980

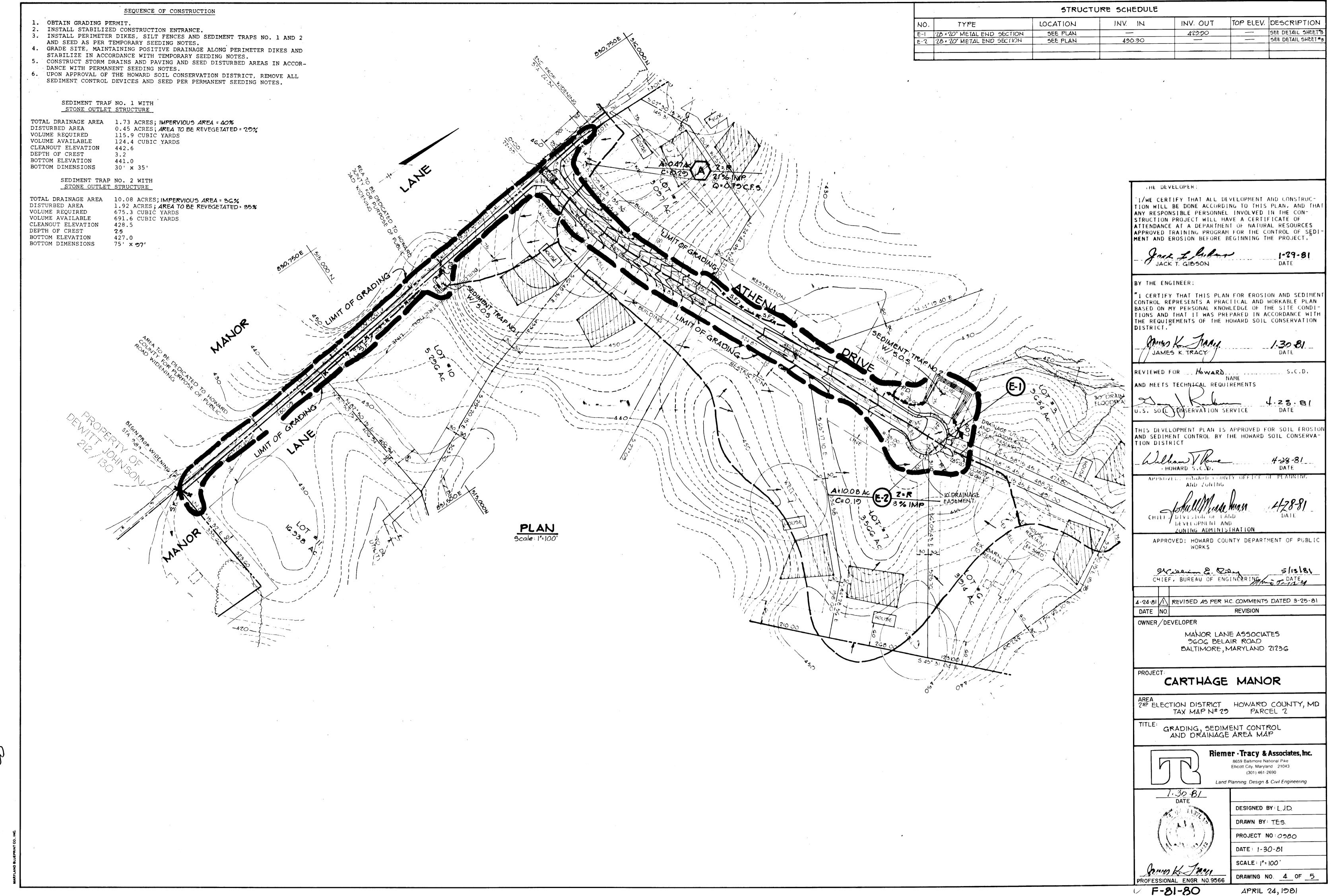
DRAWN BY: T.E.S.

DATE: 1-30-81

SCALE: 1"=400'







SEDIMENT CONTROL CONSTRUCTION NOTES GENERAL NOTES

- 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 (922-2070).
- 2. ALL SEDIMENT CONTROL STRUCTURES WILL BE INSTALLED IN ACCORDANCE WITH "THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CON-TROL IN DEVELOPING AREAS" AS PREPARED BY THE U.S. DEPARTMENT OF AGRI-CULTURE SOIL CONSERVATION SERVICE.
- SITE GRADING WILL BEGIN ONLY AFTER ALL PERIMETER SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED AND ARE IN A FUNCTIONING CONDITION.
- ALL DISTURBED AREAS ARE TO BE DRESSED AND STABILIZED ACCORDING TO THE TEMPORARY OR PERMANENT SEEDING SCHEDULES AS SOON AS PROPER WEATHER CONDITIONS EXIST FOR THE ESTABLISHMENT OF A PERMANENT VEGETATIVE COVER.
- SEDIMENT WILL BE REMOVED FROM TRAPS WHEN THE DEPTH REACHES THE CLEAN OUT ELEVATION SHOWN ON THE PLANS.
- 6. FERTILIZER AND LIME RATES MAY BE CHANGED THROUGH AUTHORIZATION BY THE HOWARD SOIL CONSERVATION DISTRICT IF SOIL TESTS DETERMINE A REDUCTION IN THE SPECIFIED RATES IS JUSTIFIED.
- 7. 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.
- REFERENCES CALLED FOR ON THE SEDIMENT CONTROL CONSTRUCTION PLAN AND DETAILS ARE MADE TO "THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS".
- SEDIMENT CONTROL WILL BE INSTALLED BEFORE CLEARING AND GRUBBING REMAINDER OF SITE.

TEMPORARY SEEDING

AREA TO BE SEEDED SHALL BE RECENTLY LOOSENED. IF THE GROUND IS PACKED, CRUSTED OR HARD, THE TOP LAYER OF SOIL SHALL BE LOOSENED BY DISCING, RACKING OR OTHER ACCEPTABLE MEANS.

- A. APPLY 10-20-10 FERTILIZER (OR EQUIVALENT) AT THE RATE OF 600 LBS. PER ACRE OR 15 LBS. PER 1000 SQ. FT.
- B. WHERE SOIL IS KNOWN TO BE HIGHLY ACID, APPLY DOLOMITIC LIMESTONE

AT THE RATE OF 1 TON PER ACRE.

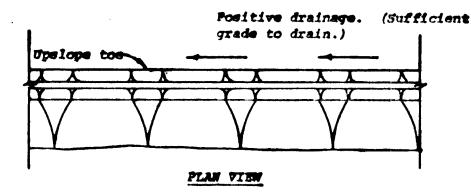
- C. WORK BOTH INTO SOIL AND SEED WITH CYCLONE SEEDER, DRILL, CULTIPAKER SEEDER OR HYDROSEEDER (SLURRY WILL INCLUDE SEED AND FERTILIZER) AT THE RATE OF 40 LBS. PER ACRE OF ITALIAN OR PERENNIAL RYEGRASS.
- D. MULCH WITH UNWEATHERED SMALL GRAIN STRAW AT THE RATE OF $1\ 1/2$ TO 2TONS, PER ACRE AND ANCHOR WITH A CUTBACK ASPHALT OR EMULSIFIED ASPHALT AT THE RATE OF 5 GAL. PER 1000 SQ. FT.

PERMANENT SEEDING

FIRM STABILIZATION WILL TAKE PLACE AS SOON AS POSSIBLE AS WEATHER CONDITIONS PERMIT. AS FOLLOWS:

- A. APPLY DOLOMITIC LIMESTONE AT THE RATE OF 2 TONS PER ACRE (ONE TONE PER ACRE IF APPLICATION OF TON PER ACRE WAS MADE FOR TEMPORARY SEEDING),
- D. APPLY 0-20-20 FERTILIZER AT THE RATE OF 600 LBS. PER ACRE HARROW OR DISC LIME AND 0-20-20 FERTILIZER INTO THE SOIL TO A MINIMUM DEPTH OF 3" LAWNS OR HIGH MAINTENANCE AREAS WILL BE DRAGGED AND LEVELED WITH A YORK RAKE. AT THE TIME OF SEEDING APPLY 400 POUNDS OF 38-0-0 UREAFORM FERTILIZER AND 500 LBS. OF 10-20-20 OR EQUIVALENT FERTILIZER PER ACRE.
- C. SEED WITH A MIXTURE OF CERTIFIED "MERION" KENTUCKY BLUEGRASS 40 LBS. PER ACRE; COMMON KENTUCKY BLUEGRASS @ 40 LBS. PER ACRE; RED FESCUE, PENNLAWN OR JAMESTOWN @ 20 LBS. PER ACRE.
- D. MULCH WITH UNWEATHERED SMALL GRAIN STRAW AT THE RATE OF $1\ 1/2$ to $2\ \text{TONS}$ PER ACRE AND ANCHOR WITH A CUTBACK ASPHALT OR EMULSIFIED ASPHALT AT THE RATE OF 5 GAL. PER 1000 SQ. FT.
- E. SEED ALL SLOPES WITH A MIXTURE OF CERTIFIED KENTUCKY 31 TALL FESCUE & 50 LBS. PER ACRE AND INOCULATED KOREAN LESPEDEZA & 15 LBS. PER ACRE.





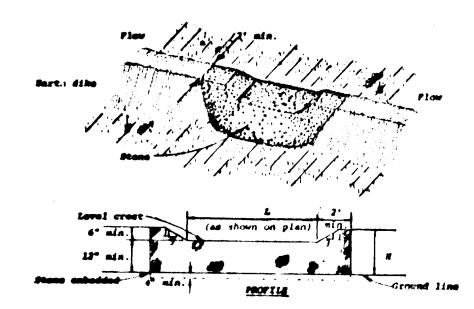
Construction Specifications

- 1. All dikes shall be machine compacted.
- 2. All perimeter dikes shall have positive drainage to am outlet. 3. A. Diverted runoff from a protected or stabilized upland area shall outlet directly onto am undisturbed stabilized area or into a
 - level spreader or grade stabilization structure. B. Diverted runoff from a disturbed or exposed upland area shall be conveyed to a sediment trapping device such as sediment trap or a sediment basin or to an area protected by any of these
- practices. A. Stabilization, when required, shall be done in accordance with Standard and Specifications for Grassed Waterway. The minimum area to be stabilized shall be the channel flow area.

5. Periodic inspection and required maintenance shall be provided.

* Drainage area less than 5 acres

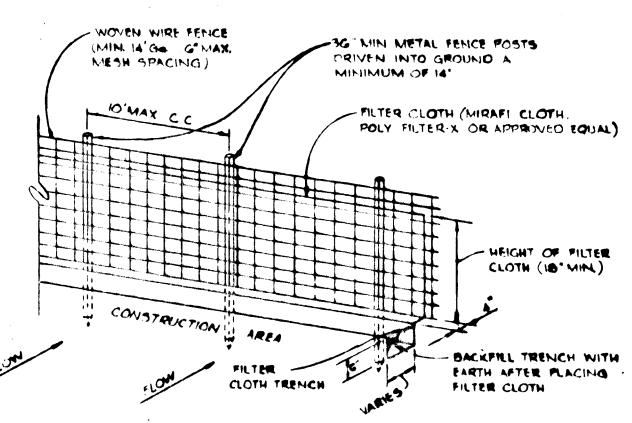
PERIMETER DIKE



- The stone shall be crushed stone. Gravel may be used if crushed stone is not available. The stone shall meet MSHA Size No. 2 or AASHTO
- The creek of the stone dike shall be at least six inches lower than the lowest elevation of the cop of the earth dike and shall be level. The stone outlet structure shall be embedded into the soil a minimum of four inches.
- The minimum length, in feet, of the crest of the scone outlet structure shall be equal to six times the number of acres of contributing drainage
- 5. The stone outlet structure shall be inspected after each rain, and the score shall be replaced when the structure ceases to function as intended due to milt accumulation among the stone, washout, construction

STONE OUTLET STRUCTURE FOR SEDIMENT TRAP NO. 1

No Scale



- I. WOVEN WIRE FENCE TO BE PASTENED SECURELY TO PENCE
- POSTS BY USE OF WIRE TIES. 2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE
- FENICE BY USE OF WHITE TIES SPACED EVERY 24" 24" & SILT FENCE TO BE PLACED IN LIEU OF STRAW BALES AND/OR
- DIVERSION DIKES AT THE OFTION OF THE DEVELOPER.

DESIGN DATA

PEAK DISCHARGE : 740 CSM/IN.

PROFILE

MORE

THAN 440"

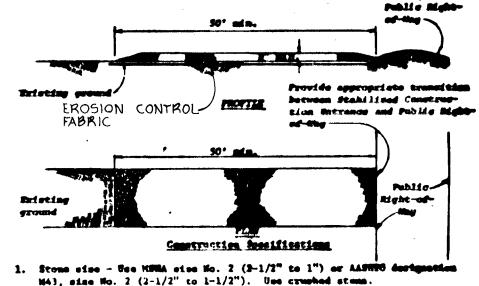
Q: 34.7

A= 10.08 Ac.

STONE OUTLET STRUCTURE

No Scale

FOR SEDIMENT TRAP NO. 2



M43, size No. 2 (2-1/2" to 1-1/2"). Use crushed stems.

it shall be done on an area stabilized with crushed stone which drains be prevented from entering any steem drain, ditch, or watercommune through use of sand bags, gravel, beards or other approved methods . Maintenance - The entrance shall be maintained in a condition which will present tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as com-

dictions demand and repair and/or cleanout of any messures used to trap

sediment. All sediment spilled, dropped, venhed or tracked onto put

No Scale

3'-6" SURGE STONE OR

MD. NO. I STONE

CROSS SECTION

STABILIZED CONSTRUCTION ENTRANCE

BY THE ENGINEER:

BY THE DEVELOPER

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMEN ONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDI-TIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

1.30.81

4.28.81

5/13/81

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUC-

ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CON-

ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES

APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDI

STRUCTION PROJECT WILL HAVE A CERTIFICATE OF

MENT AND EROSION BEFORE BEGINNING THE PROJECT.

TION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT

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

U.S. SQIA CONSERVATION SERVICE

THESE PLANS FOR SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSER-

VATION DISTRICT.

APPROVED: HOWARD COURTY OFFICE OF PLANNING AND ZONTHO

DEVELOPMENT AND ZONING ADMINISTRATION

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC

Wielin E. Bily CHIEF, BUREAU OF ENGINEERING

REVISED AS PER H.C. COMMENTS DATED 3-25-8

REVISION

OWNER / DEVELOPER

MANOR LANE ASSOCIATES 2606 BELAIR ROAD BALTIMORE, MARYLAND 71736

4-24-81 DATE NO.

CARTHAGE MANOR

AREA 740 ELECTION DISTRICT HOWARD COUNTY, MD TAX MAP Nº 29 PARCEL 2

SEDIMENT CONTROL DETAILS



Riemer · Tracy & Associates, Inc. 8659 Baltimore National Pike Ellicott City, Maryland 21043

DESIGNED BY: L.J.D.

(301) 461-2690 Land Planning, Design & Civil Engineering

_1.30.31

DRAWN BY: D. A. M. PROJECT NO:0980 DATE: 1-30-81

ROFESSIONAL ENGR. NO.9566

DRAWING NO. 5 OF 5

SCALE: AS SHOWN

F-81-80

APRIL 24, 1981