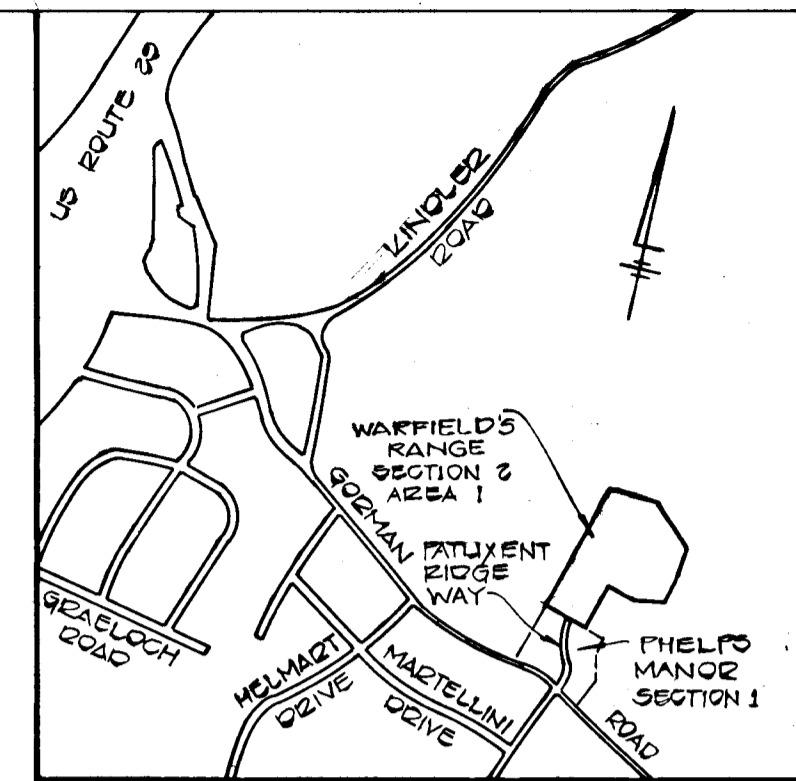
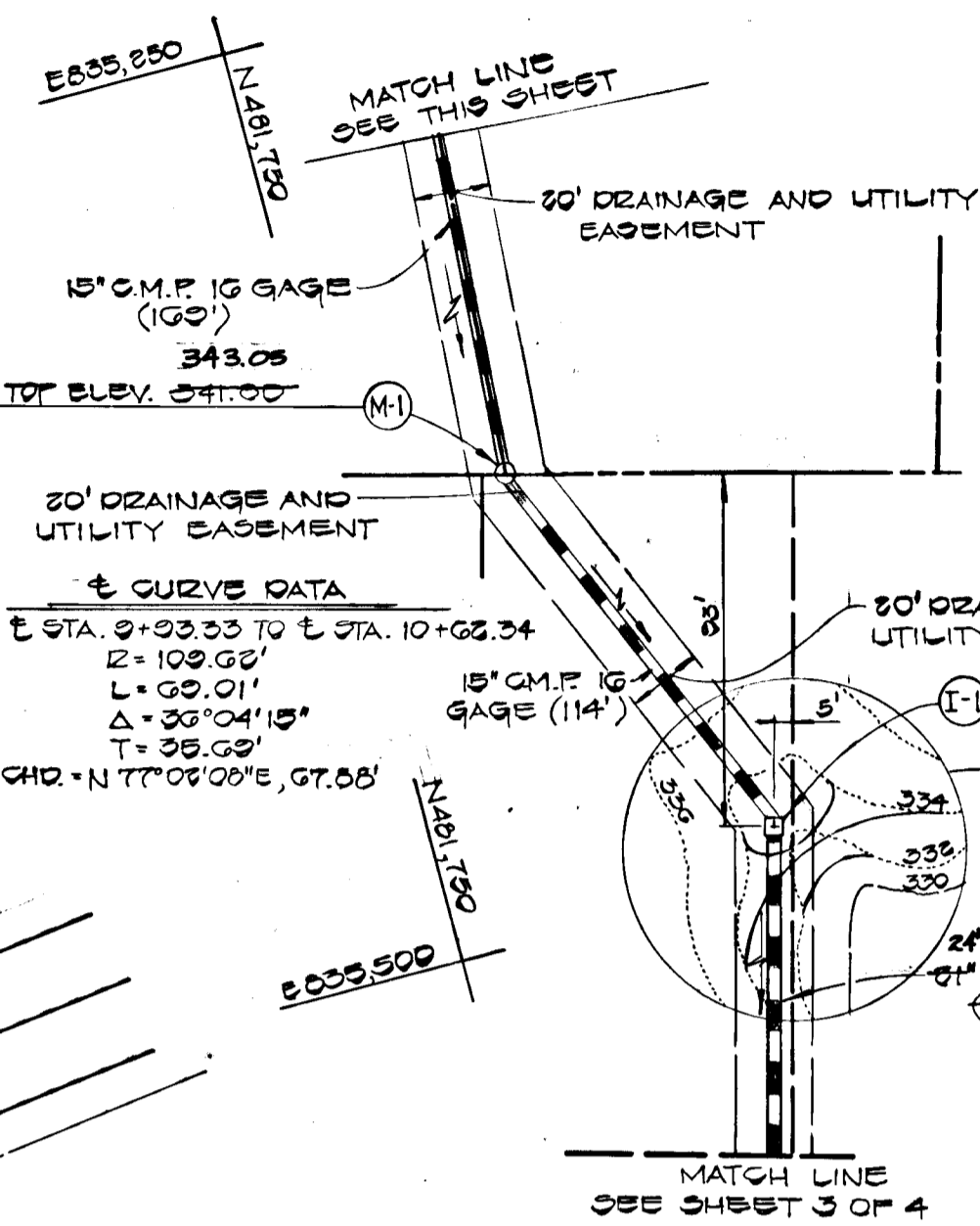
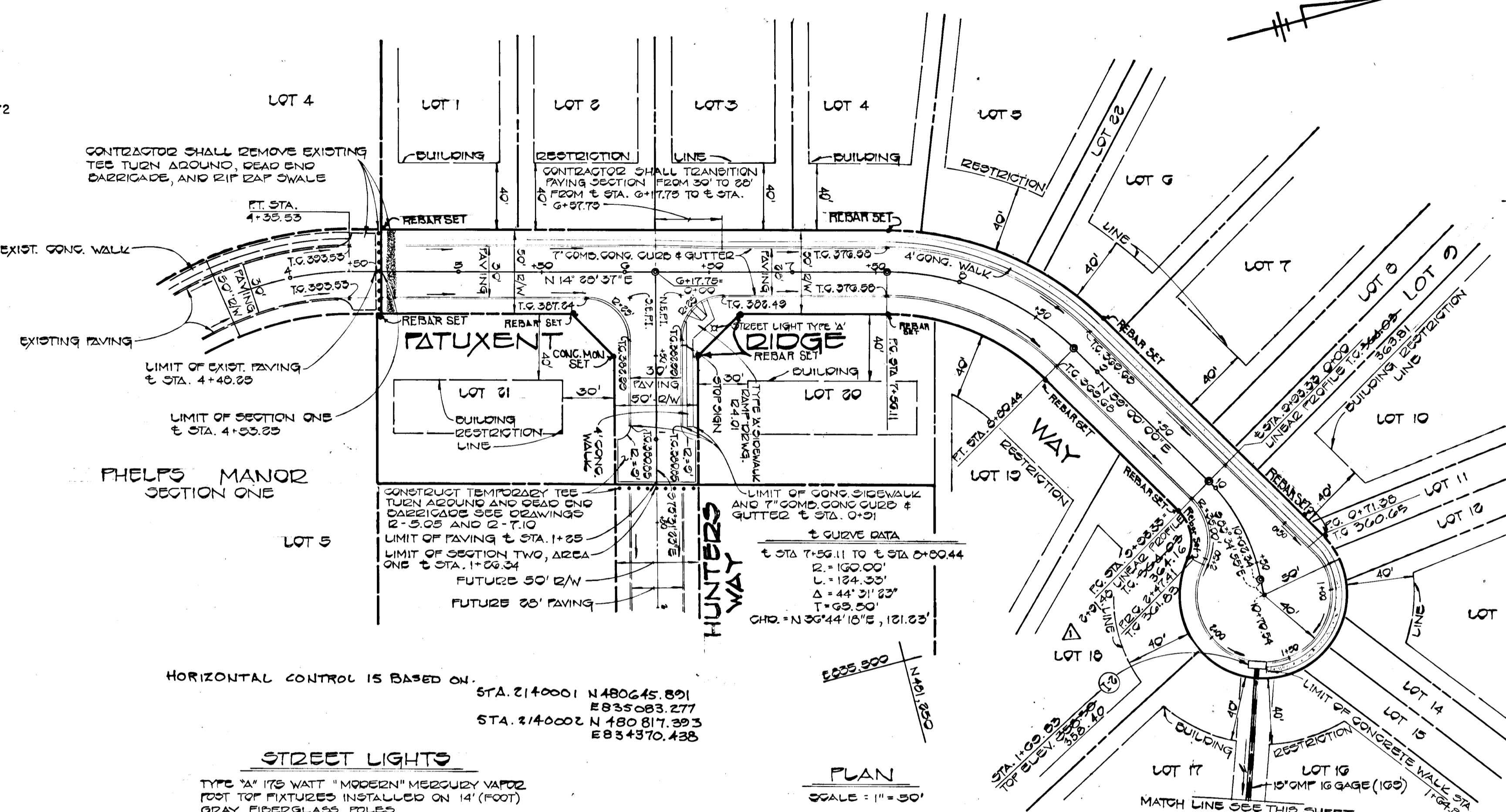
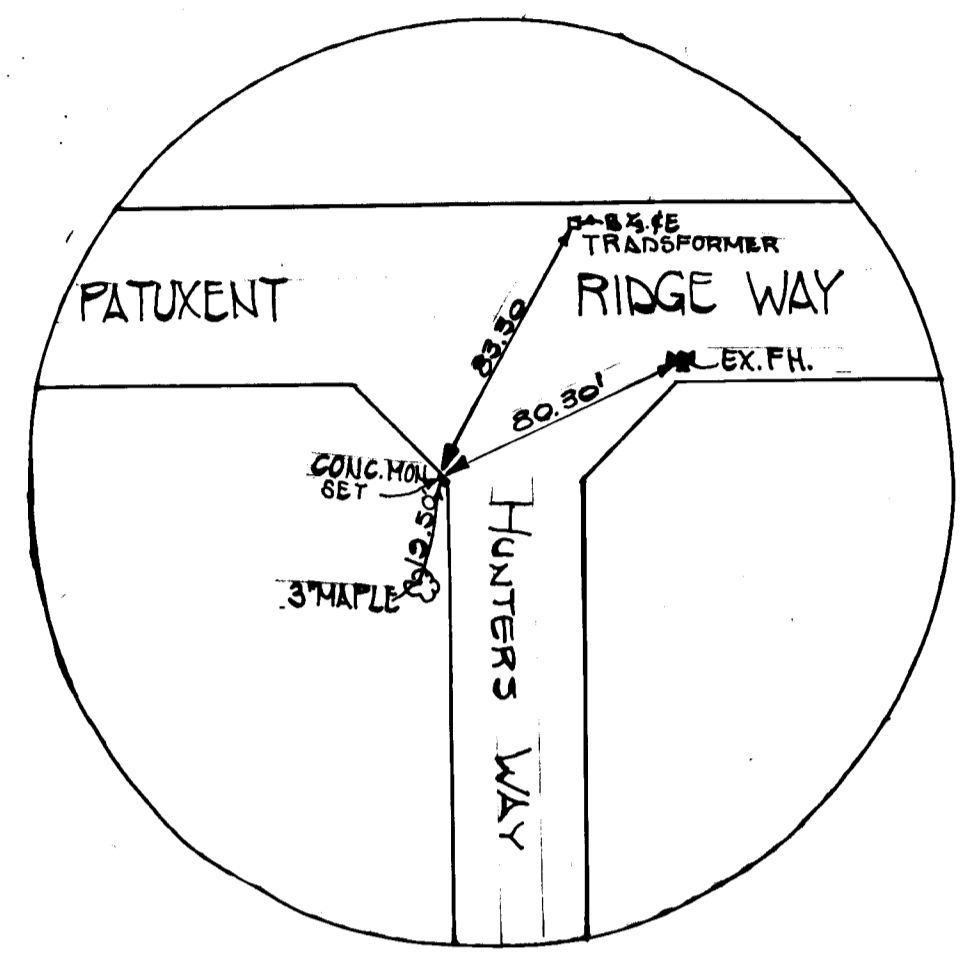


GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH HOWARD COUNTY STANDARDS, SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
2. ALL UTILITY COMPANIES MUST BE NOTIFIED 24 HRS IN ADVANCE OF ANY CONSTRUCTION.
3. STORM DRAINAGE TRENCHES WITHIN ROAD RIGHTS-OF-WAYS SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY ROAD CODE.
4. ANY DAMAGE TO PUBLIC RIGHTS-OF-WAYS OR PAVING WILL BE CORRECTED AT THE CONTRACTORS EXPENSE.
5. CONTRACTOR TO NOTIFY THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS AND SURVEY DIVISION AT LEAST THREE DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS - TELEPHONE=792-7272



VICINITY MAP
SCALE 1" = 100'

NO.	DATE	REVISION DESCRIPTION
1.	11/26/84	Change Linear Profile & Elevations in Plan & Profile

APPROVED
DEPARTMENT OF PUBLIC WORKS
James E. P... 6-18-84
CHIEF, BUREAU OF ENGINEERING

APPROVED
OFFICE OF PLANNING AND ZONING
William M. ... 12-84
CHIEF, DIVISION OF LANDS, PLANNING AND ZONING ADMINISTRATION

HORIZONTAL CONTROL IS BASED ON:
STA. 2140001 N 480245.891 E 835083.277
STA. 2140002 N 480817.393 E 834370.438

STREET LIGHTS
TYPE 'A' 175 WATT "MODERN" MERCURY VAPOR
FOOT TOP FIXTURES INSTALLED ON 14' (FOOT)
GRAY FIBERGLASS POLES

PLAN
SCALE = 1" = 50'

Chas. Crovo
AS-BUILT CERTIFICATION
8/19/87
DATE



WARFIELD'S RANGE SECTION TWO AREA ONE
LOTS 1-22
SIXTH ELECTION DISTRICT,
HOWARD COUNTY, MARYLAND

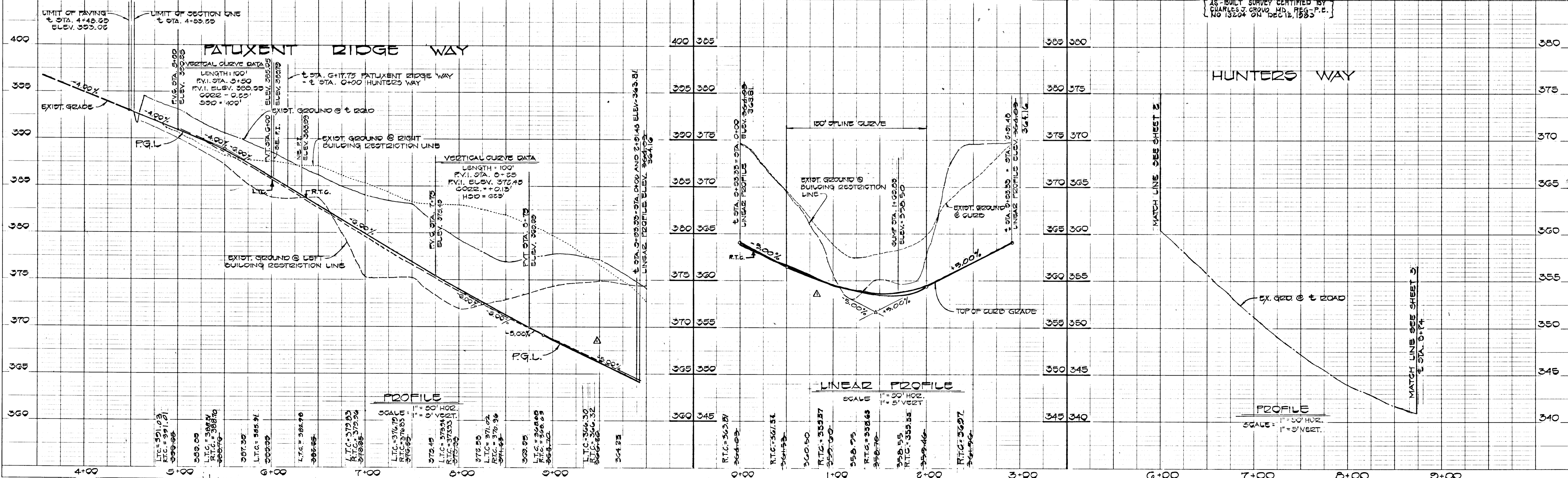
PATUXENT RIDGE WAY PLAN & PROFILE

OWNER AND DEVELOPER
JANET W. PHELPS
10824 GORMAN ROAD
LAUREL, MARYLAND 20707

PHILIPS ASSOCIATES
6570 STEFFETT PLACE
SUITE 201
COLUMBIA, MARYLAND 21044

SCALE AS SHOWN DATE NOV. 23, 1983 DWG. NO. 1 OF 4
DES. C. CROVO DRN. A. BOGDAN CHK. R. CARTER

FISHER, COLLINS AND CARTER, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043



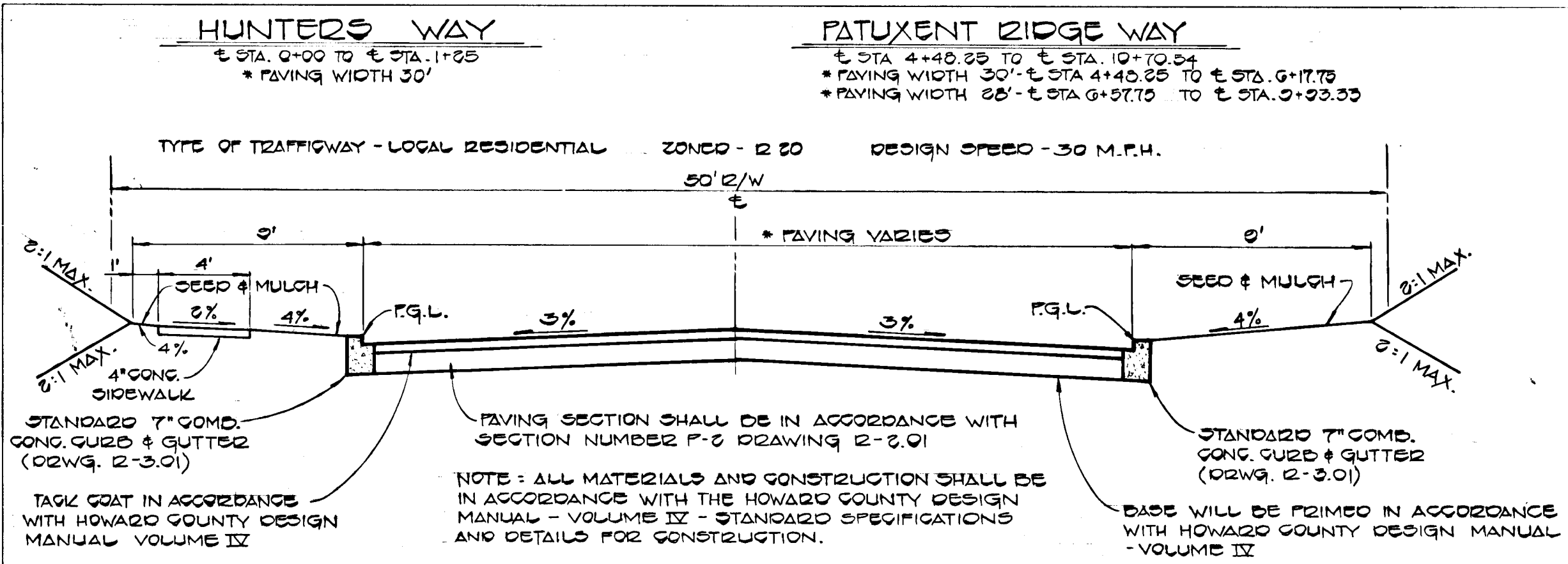
NO.	DATE	REVISION DESCRIPTION
1.	11/26/84	Change Linear Profile & Elevations in Plan & Profile

PROFILE
SCALE = 1" = 50' HORIZ.
1" = 5' VERT.

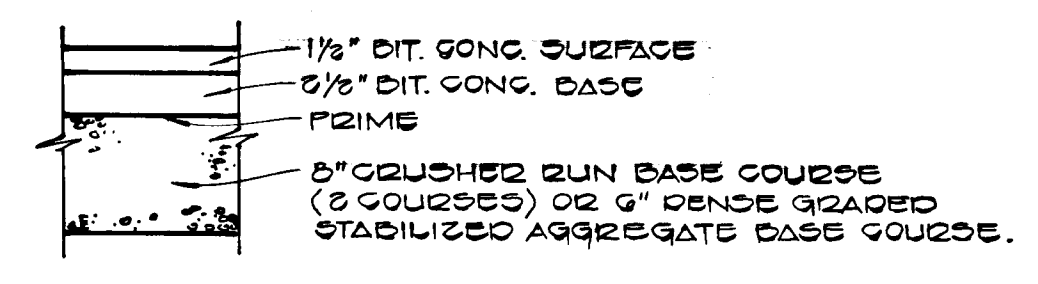
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SCALE = 1" = 50' HORIZ.
1" = 5' VERT.

PROFILE
SCALE = 1" = 50' HORIZ.
1" = 5' VERT.

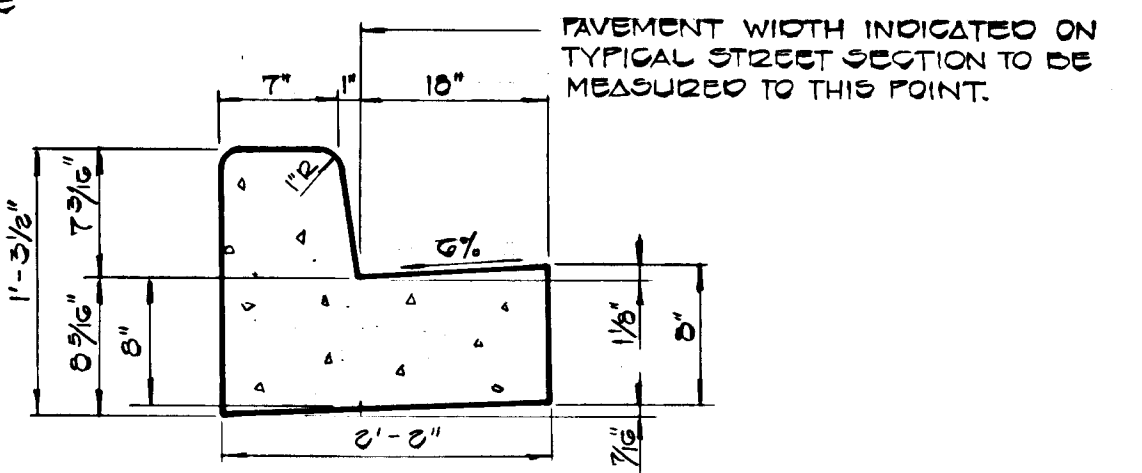
#1038



TYPICAL ROADWAY SECTION
 NO SCALE



STANDARD 7" COMBINATION GUTTER & GUTTER
 NO SCALE



1. 11/26/84 Change Elevation in structure schedule & change profile

No.	Date	Revision Description
1	11/26/84	Change Elevation in structure schedule & change profile

APPROVED: [Signature] 6-18-84
 DEPARTMENT OF PUBLIC WORKS

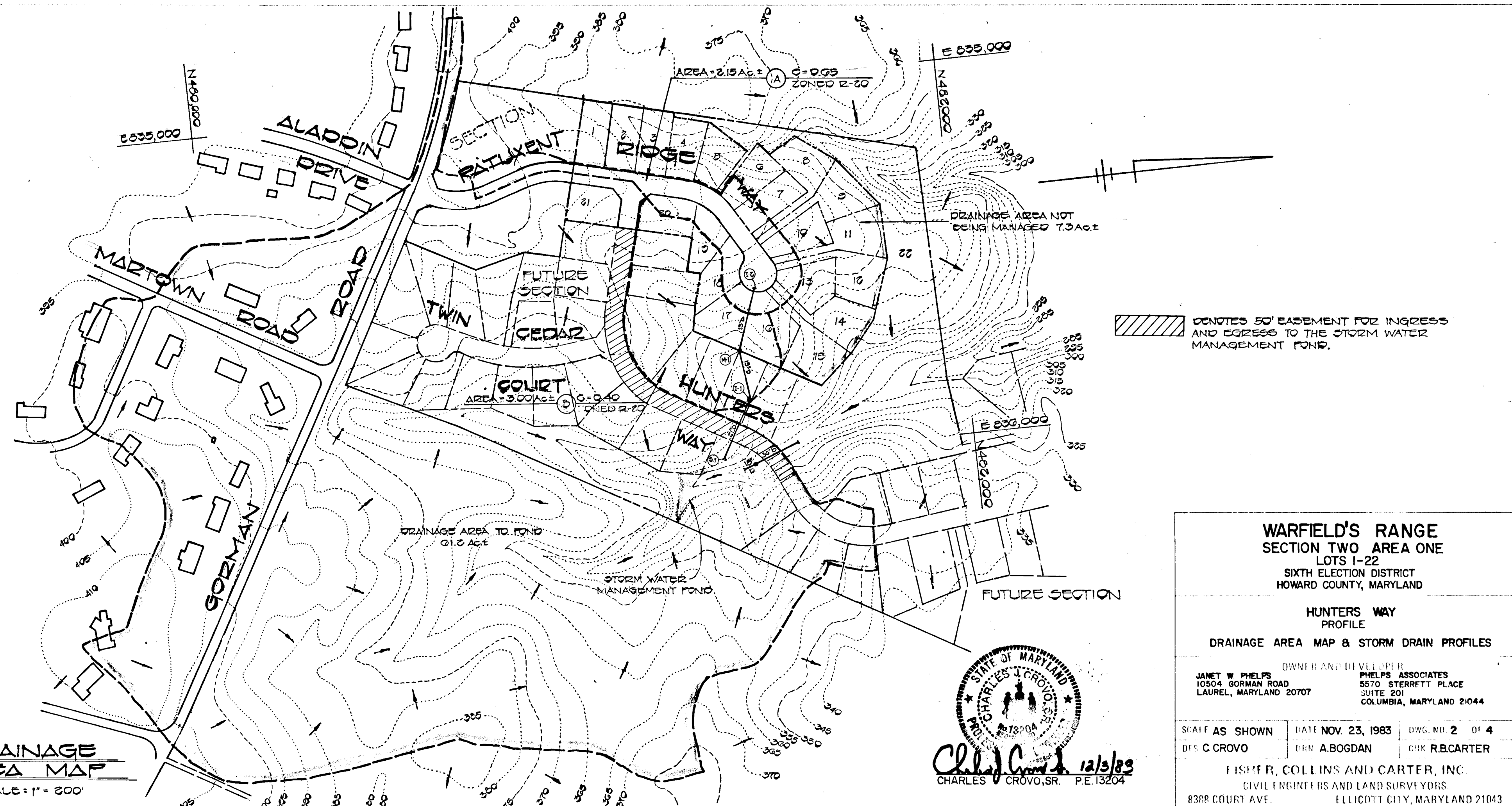
APPROVED: [Signature] 6-18-84
 OFFICE OF PLANNING AND ZONING

APPROVED: [Signature] 6-18-84
 LAND USE AND ZONING ADMINISTRATION

STRUCTURE SCHEDULE

NO.	TYPE	INVERT IN	INVERT OUT	TOP ELEV.	REMARKS
I-1	9"	328.50	328.30	329.83	DRAWING 90-4.11 &
I-2	A-10	328.74	328.50	329.83	DRAWING 90-4.02
M-1	SHALLOW M	337.01	337.01	341.00	DRAWING 90-3.02
S-1	STD. METAL END SECTION	317.50	317.50	319.25	DRAWING 90-5.21

NOTE: * 12" INLET TO HAVE OPENINGS ON ALL 4 SIDES.



WARFIELD'S RANGE SECTION TWO AREA ONE
 LOTS 1-22
 SIXTH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

HUNTERS WAY PROFILE
 DRAINAGE AREA MAP & STORM DRAIN PROFILES

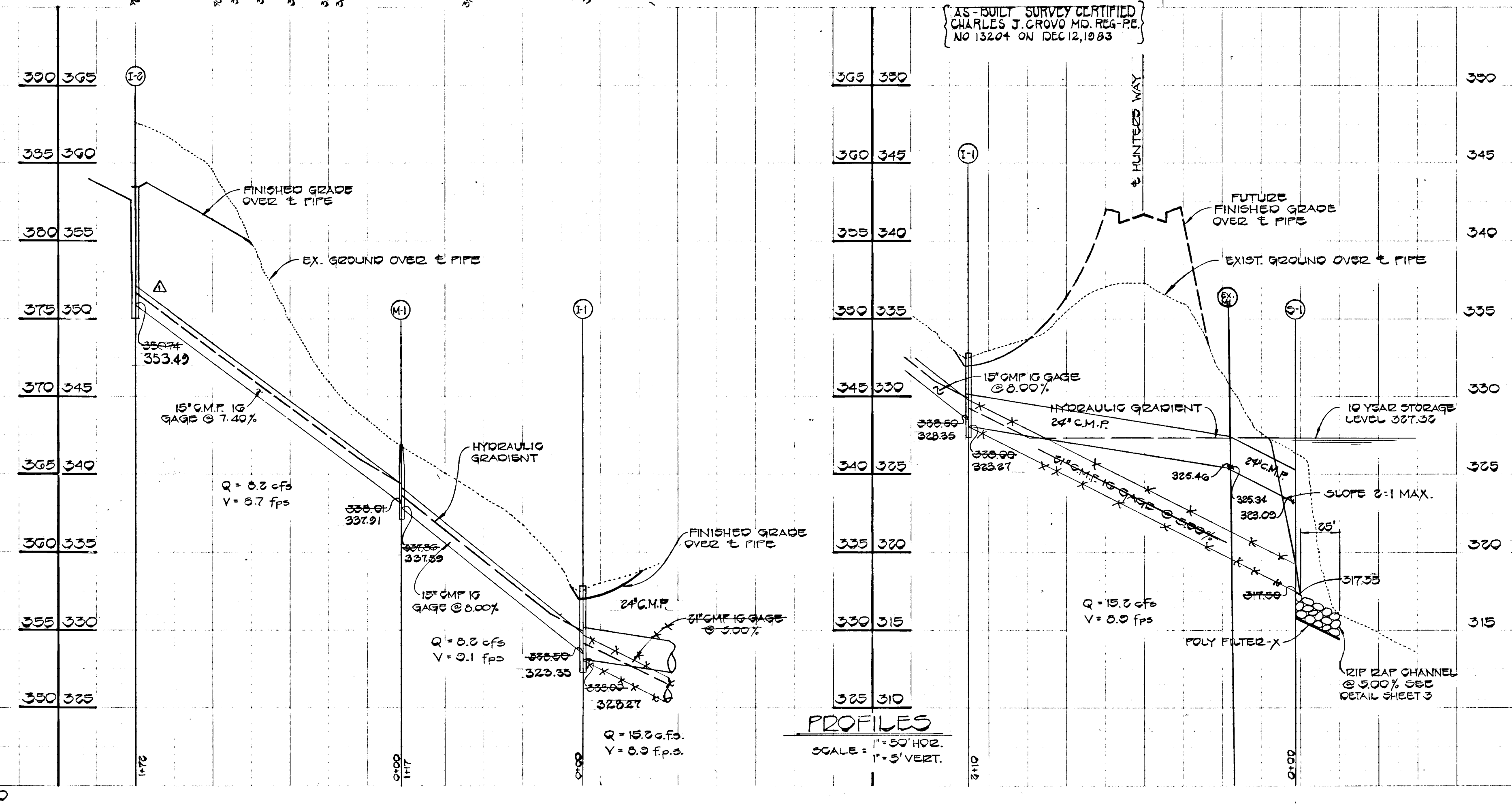
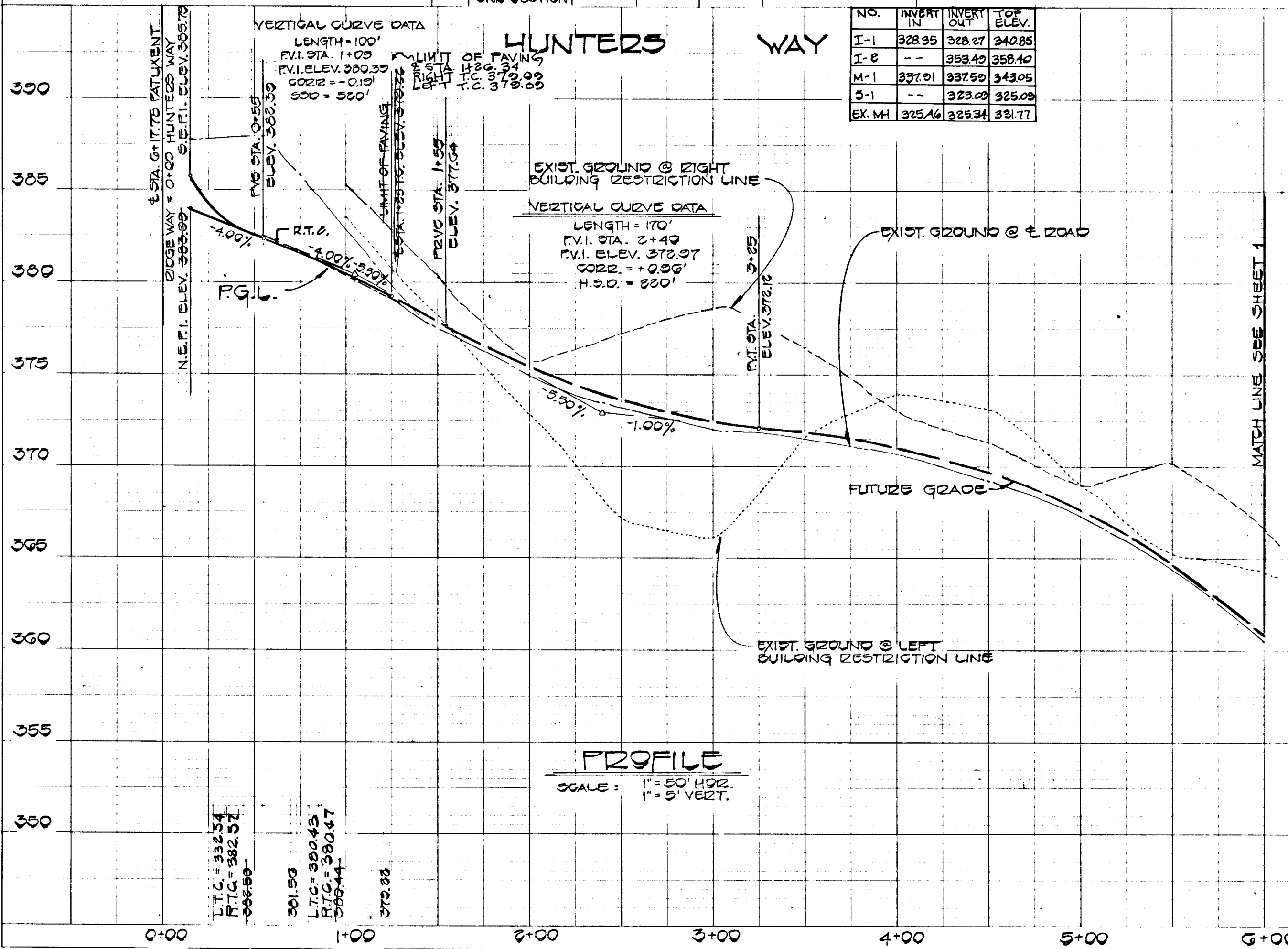
OWNER AND DEVELOPER: PHILIPS ASSOCIATES
 5570 STERRETT PLACE
 SUITE 201
 COLUMBIA, MARYLAND 21044

DESIGNED BY: JANET W. PHELPS
 10504 GORMAN ROAD
 LAUREL, MARYLAND 20707

DATE: NOV. 23, 1983
 SHEET NO. 2 OF 4

DESIGNED BY: CHARLES J. CROVO
 CIVIL ENGINEERS AND LAND SURVEYORS
 8388 COURT AVE.
 ELICOTT CITY, MARYLAND 21043

DATE: 12/3/83
 CHARLES J. CROVO, SR. P.E. 13204



#1038

12/3/83

I. SITE PREPARATION
 Areas under the embankment and structural works shall be cleared, grubbed and the topsoil stripped to remove all trees, vegetation, roots or other objectionable material. To facilitate clean out and restoration, it is recommended that the permanent pool area be cleared of all brush and trees.

II. EARTH FILL
Material
 The fill material shall be taken from approved designated borrow area or areas. It shall be free from roots, stumps, wood, rubbish, over-size stones, frozen or other objectionable materials. The embankment shall be constructed to an elevation which provides for anticipated settlement to the design elevation. The fill height all along the length of the embankment shall be increased at least 5 percent above the design elevation (including freeboard) unless otherwise shown on the plans.

Placement
 Areas on which fill is to be placed shall be scarified prior to placement of fill. Fill materials shall be placed in 8-inch maximum thickness (before compaction) layers which are to be continuous over the entire length of the fill. The most porous borrow material shall be placed in the downstream portions of the embankment.

Core Trench
 Where specified, a core trench shall be excavated along or parallel to the centerline of the embankment as shown on the plans. The bottom width of the trench shall be governed by the equipment used for excavation, with the minimum width being four feet. The depth shall be at least four feet or as shown on the plans. The side slopes of the trench shall be 1 to 1 or flatter. The backfill material for the core trench shall be the most impervious material available and shall be compacted with equipment or rollers to assure maximum density and minimum permeability.

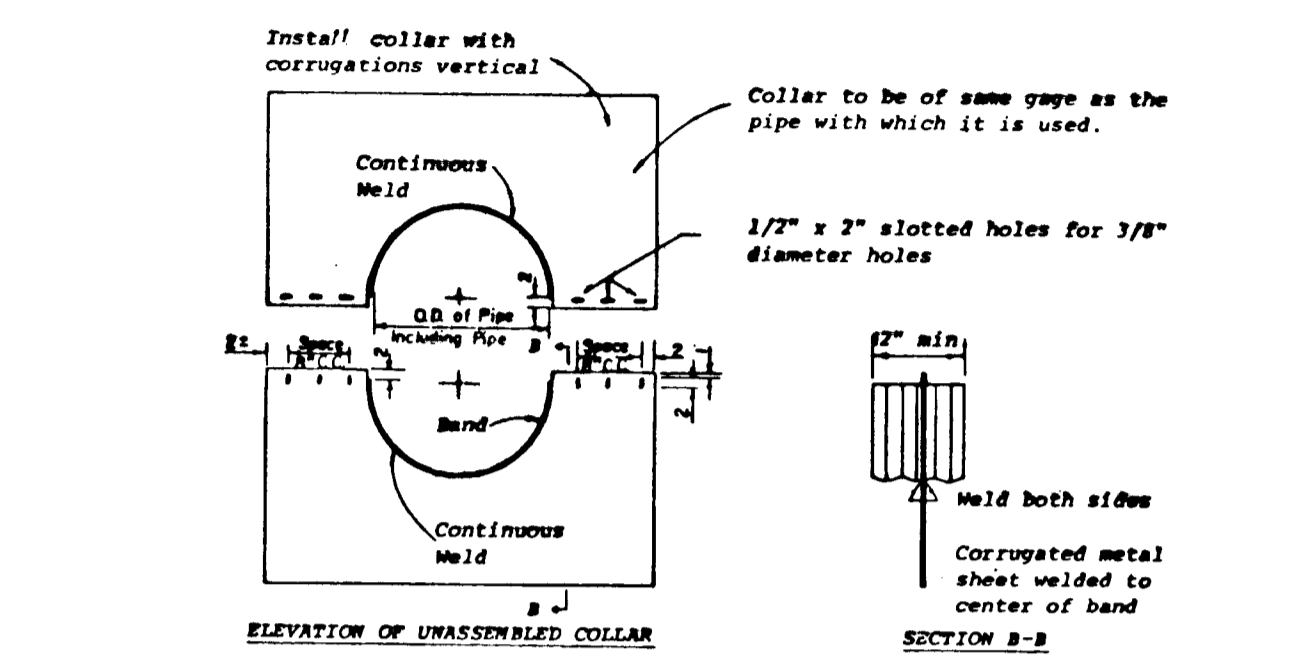
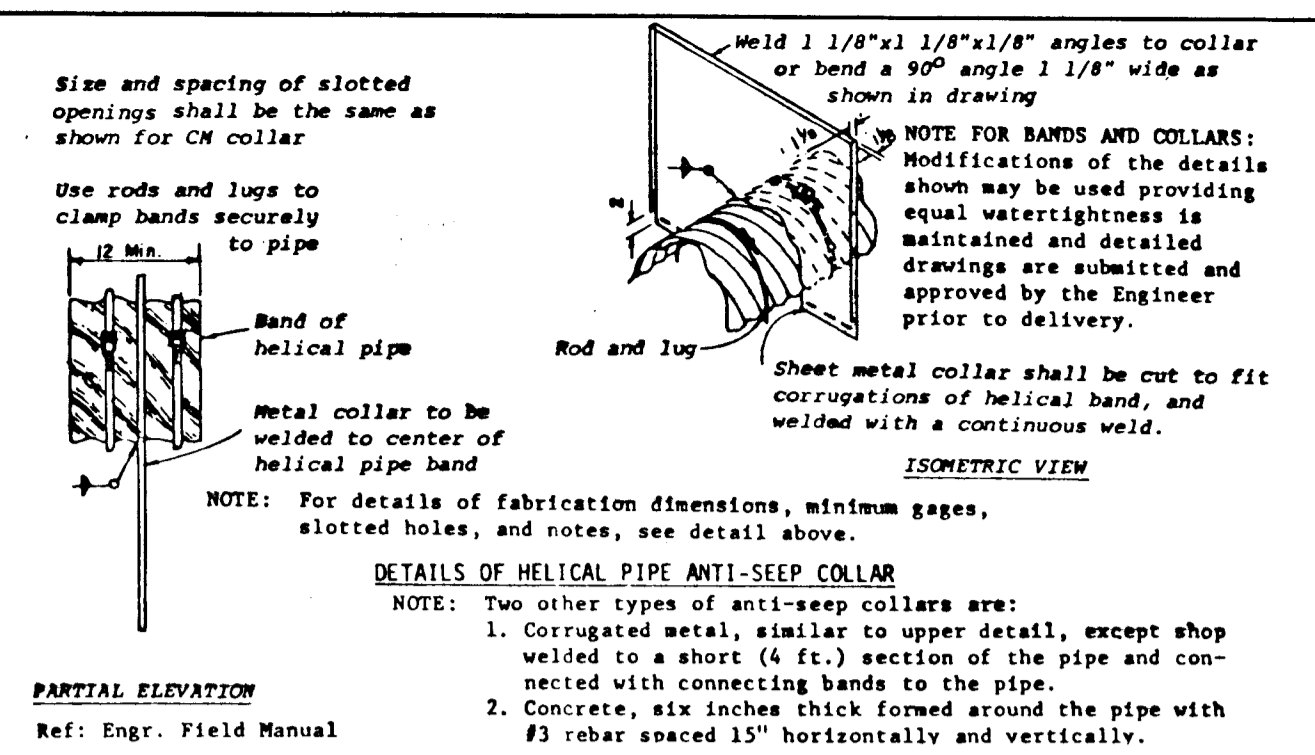
III. STRUCTURAL BACKFILL
 Backfill material shall be of the type and quality conforming to that specified for the adjoining fill material. The fill shall be placed in horizontal layers not to exceed four inches in thickness and compacted by hand tampers or other compaction equipment. The material needs to fill completely all spaces under and adjacent to the pipe. At no time during the backfilling operation shall driven equipment be allowed to operate closer than four feet, measured horizontally, to any part of a structure. Under no circumstances shall the contractor drive equipment over any part of a concrete structure or pipe unless there is a compacted fill of twenty-four inches or greater over the structure or pipe.

IV. PIPE CONDUITS
A. CORRUGATED METAL PIPE
 1. Materials - METAL PIPE - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-196 or M-211, with watertight coupling bands.
 2. Connections - All connections with pipes must be completely watertight. The drain pipe or barrel connection to the control structure shall be mortared all around. Watertight coupling bands shall be used at all joints. Anti-seep collars shall be connected to the pipe in such a manner as to be completely watertight.
 3. Bedding - The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support.
 4. Laying pipe - The pipe shall be placed with inside circumferential laps pointing downstream and with the longitudinal laps at the sides.
 5. Backfilling shall conform to structural backfill as shown above.
 6. Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

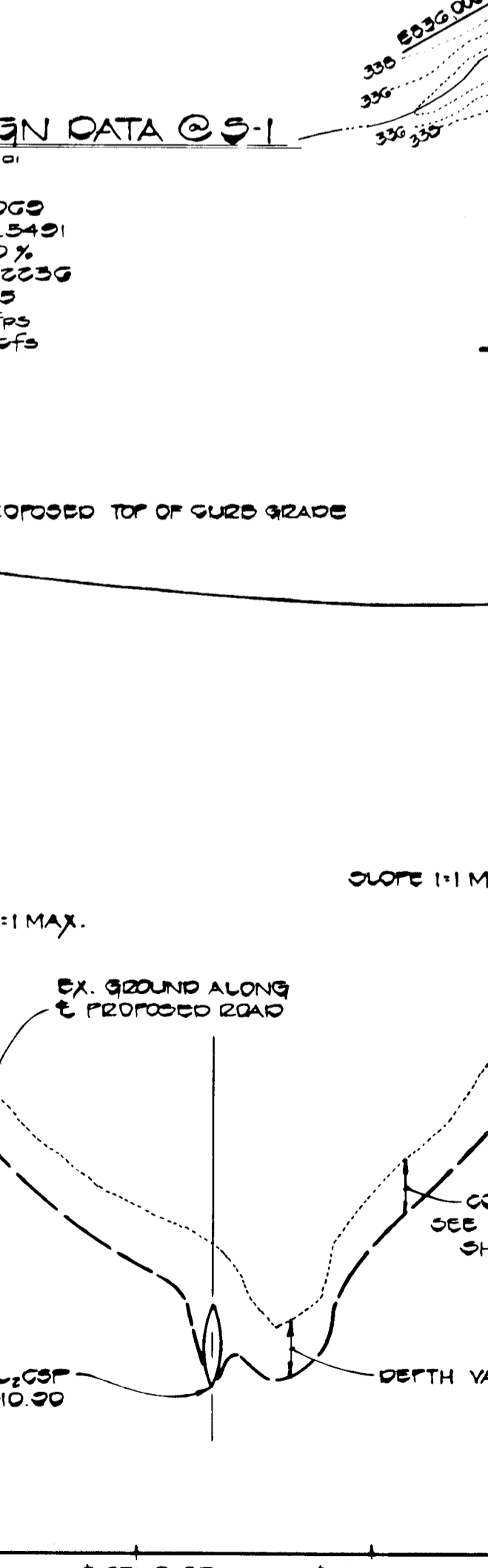
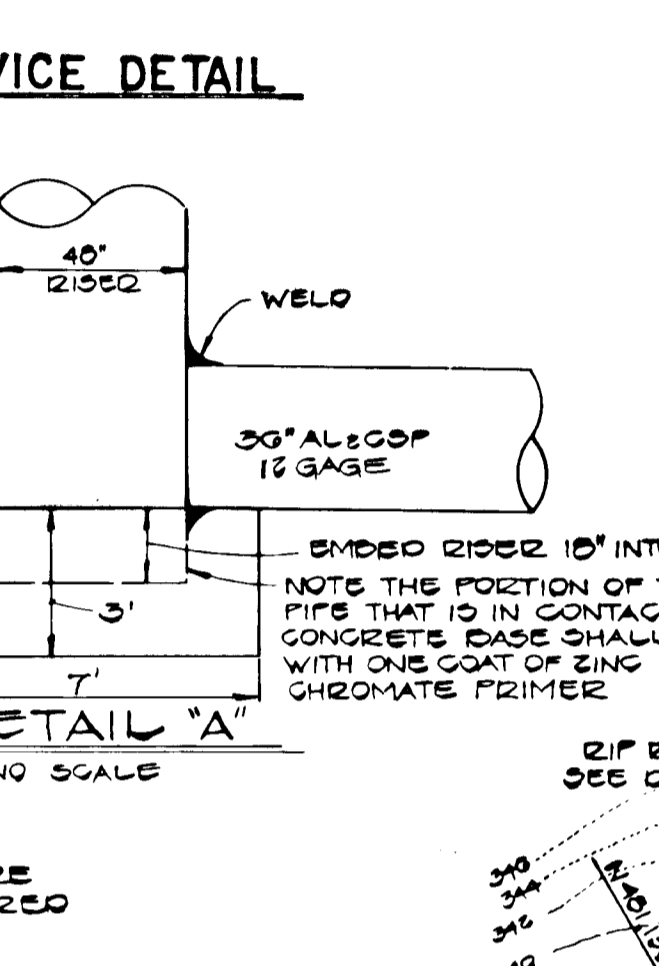
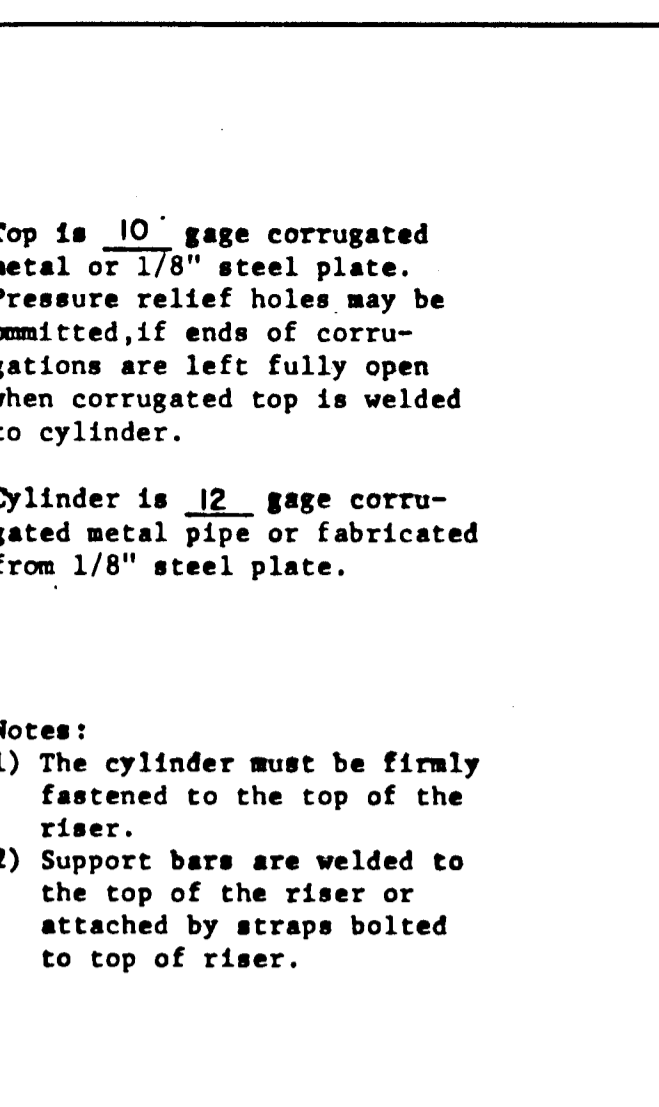
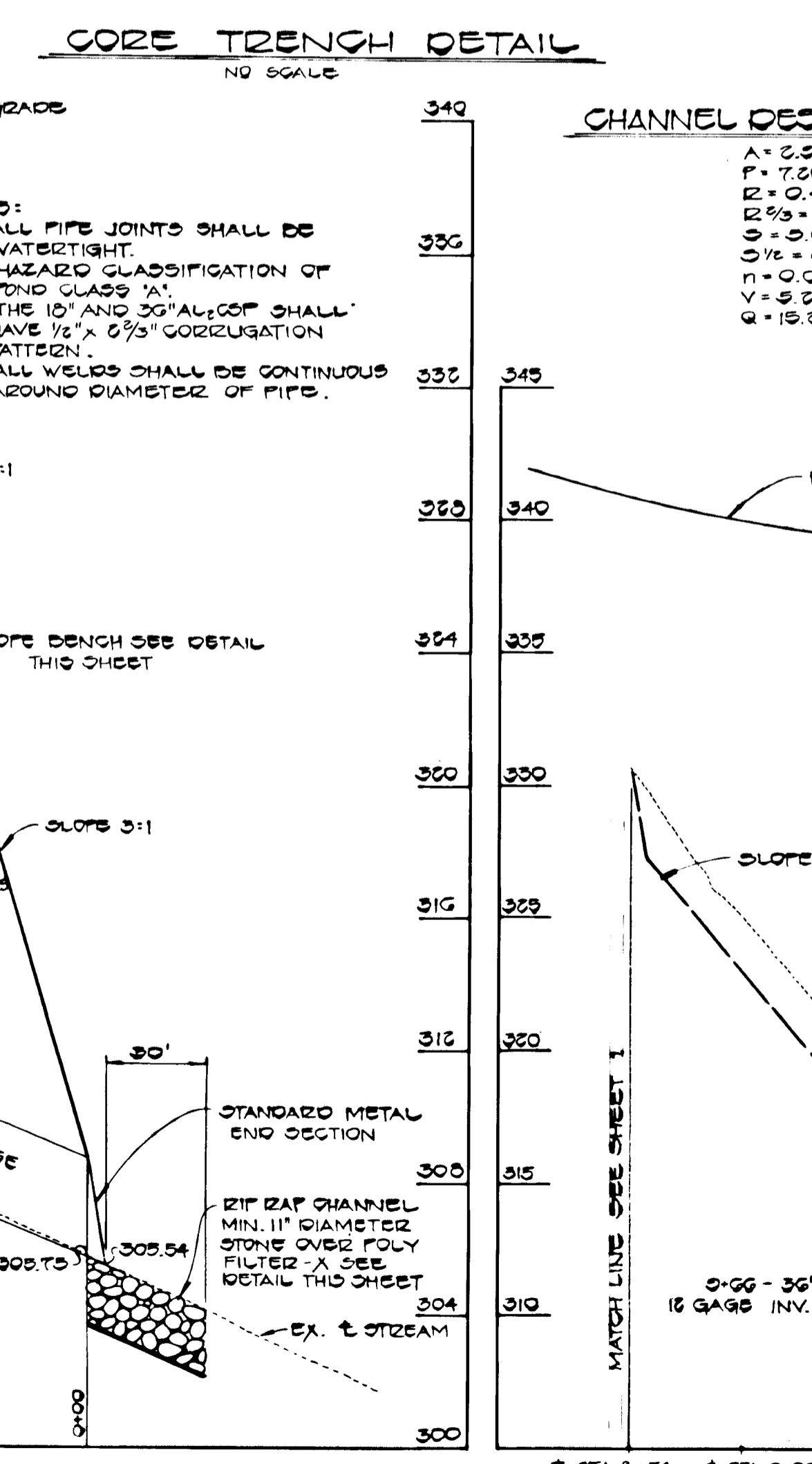
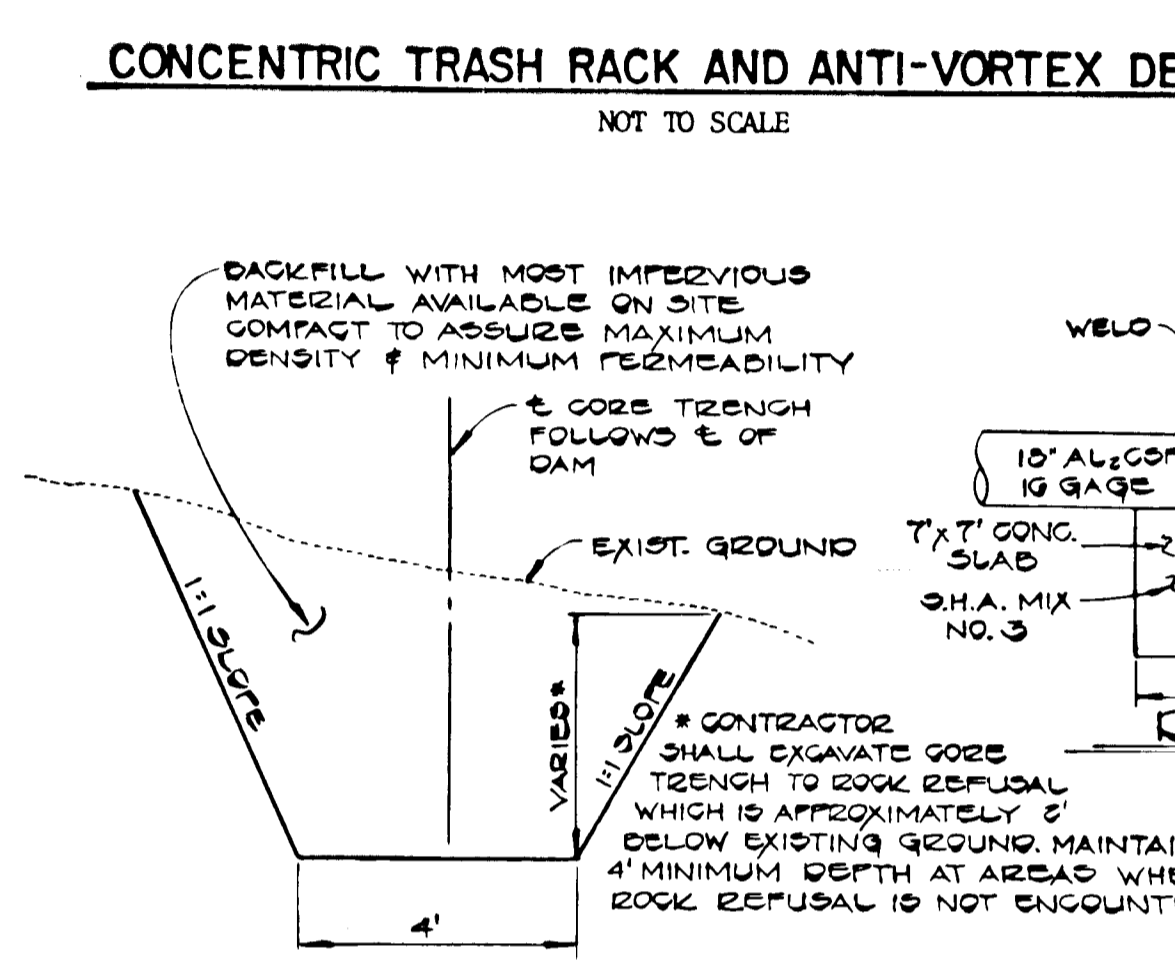
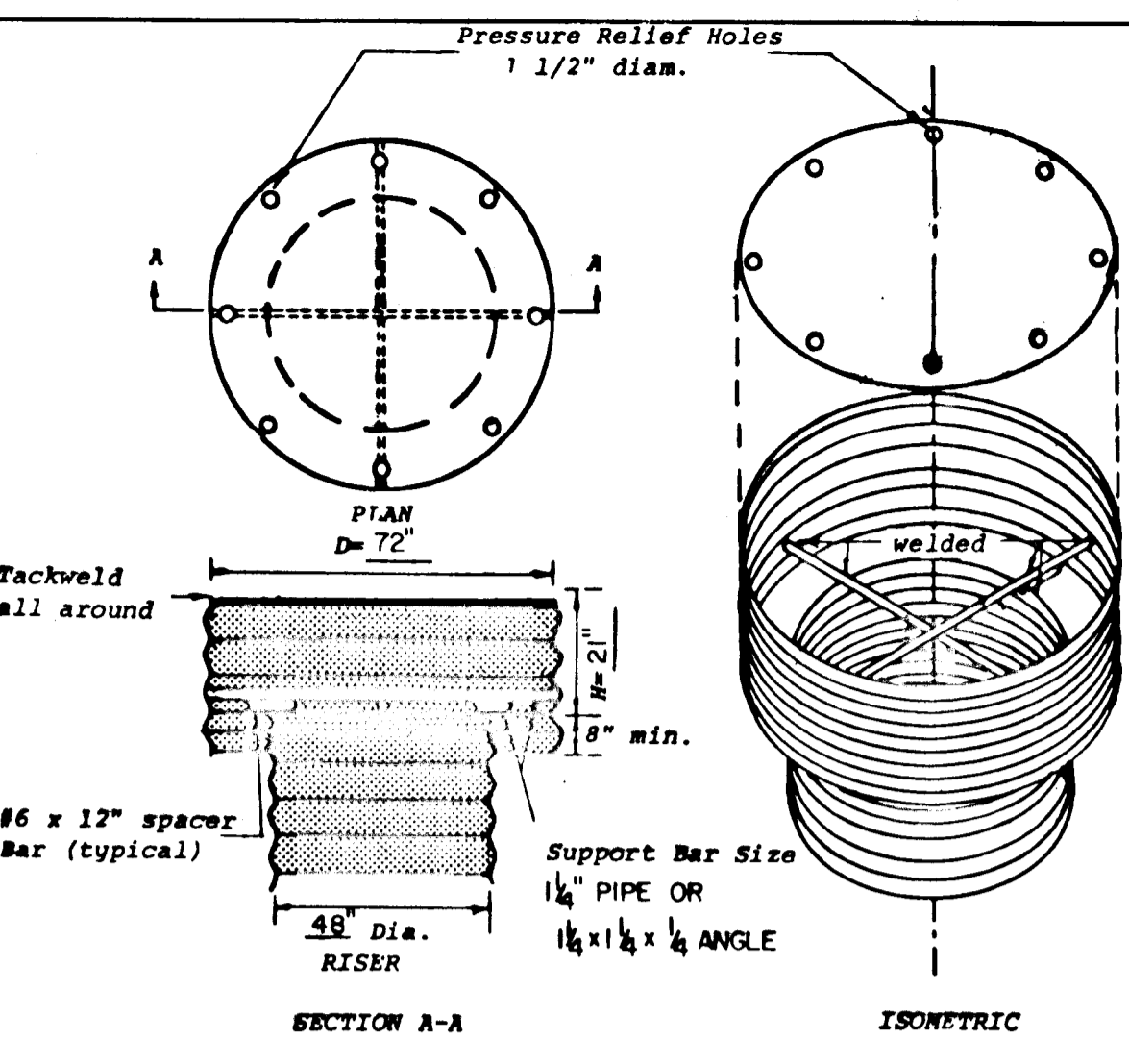
V. CONCRETE
 Concrete shall meet minimum requirements set forth in Maryland State Highway Administration Specifications for Materials, Highways, Bridges, and Incidental Structures, Article 20.07 (Portland Cement Concrete Mixtures), Mix No. 3.

VI. STABILIZATION
 All borrow areas shall be graded to provide proper drainage and left in a slightly condition. All exposed surfaces of the embankment, spillway and borrow areas shall be stabilized by seeding and applying straw mulch in accordance with Standards and Specifications for Soil Erosion and Sediment Control in Urbanizing Areas immediately after finish grading.

All exposed areas of the embankment and pond shall be stabilized by:
 a. Spreading 4" topsoil
 b. Working in 1 ton of ground limestone and 1,000 pounds of 10-10-10 fertilizer per acre.
 c. Seed with 40 lbs./acre of "Kentucky 31" tall fescue, and 15 lbs./acre of Crownvetch inoculated.
 d. Mulch with 1-1/2 tons straw per acre.
 e. Tie down mulch with emulsified asphalt @ 348 gallons/acre.



NOTES FOR COLLARS:
 1. All materials to be in accordance with construction and construction material specifications.
 2. When specified on the plans, coating of collars shall be in accordance with construction and construction material specifications.
 3. Assembled collars shall be marked by painting or tagging to identify matching pairs.
 4. The lap between the two half sections and between the pipe and connecting band shall be caulked with asphalt mastic at time of installation.
 5. Each collar shall be furnished with two 1/2" diameter rods with standard tank lugs for connecting collars to pipe.



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.

M. B. Sully 6-11-84
 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.

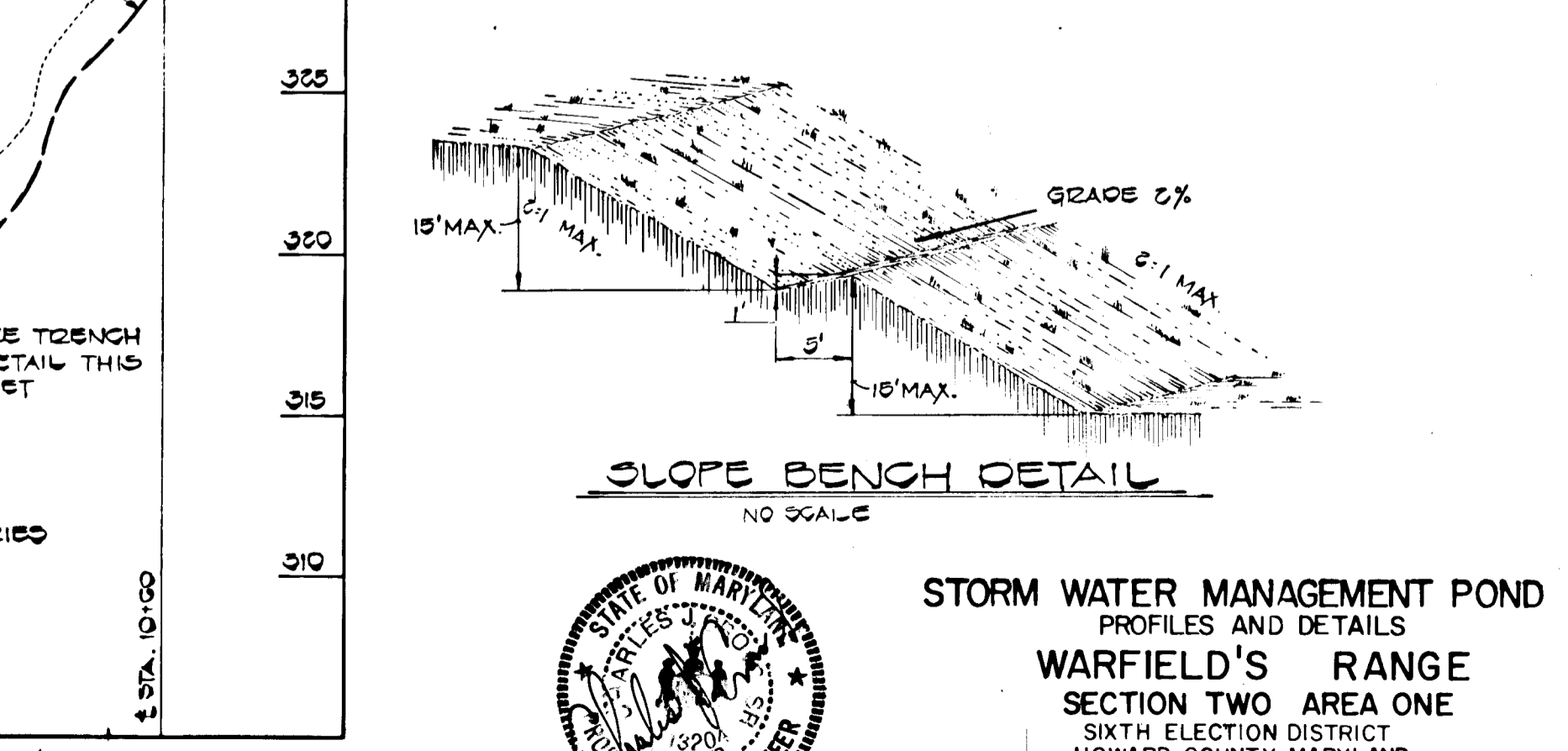
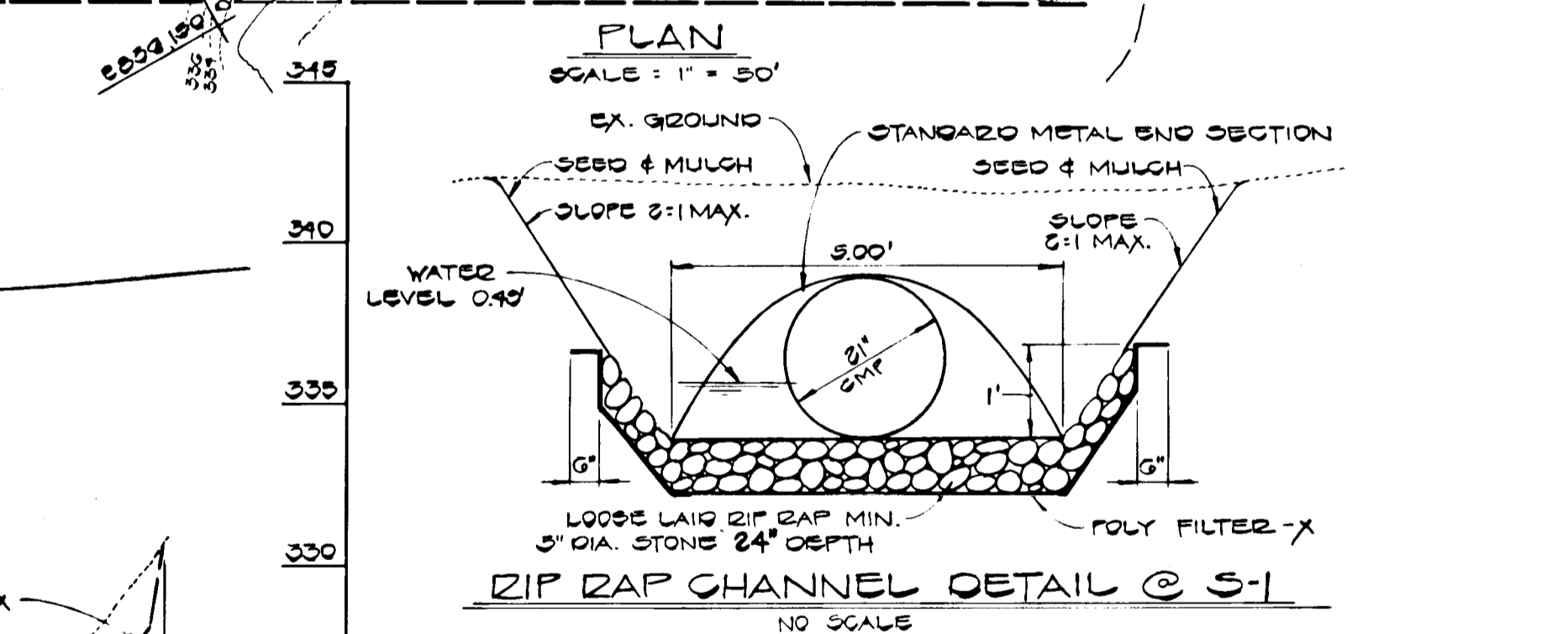
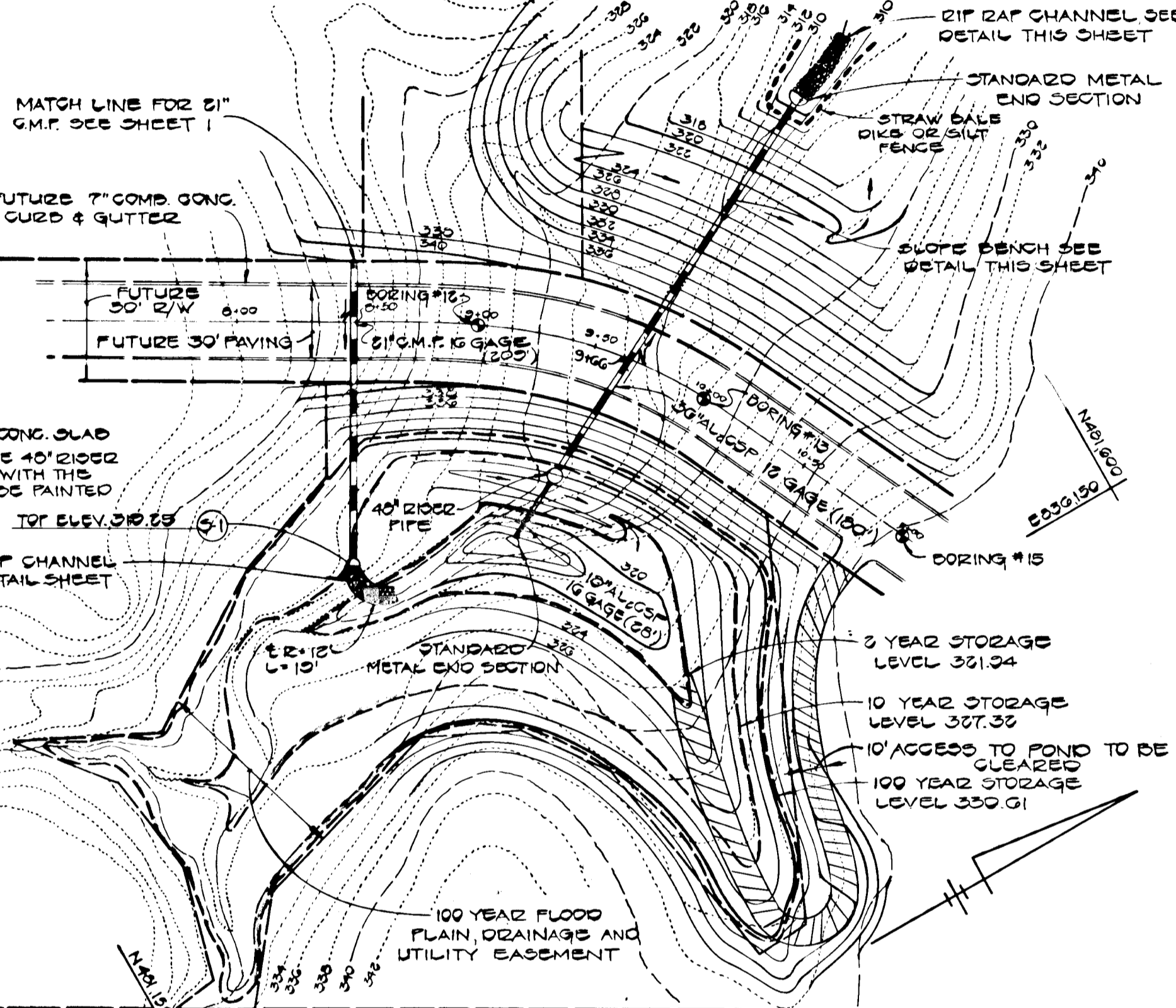
Robert W. Ziehm 6-11-84
 Howard Soil Conservation District Date

APPROVED: DEPARTMENT OF PUBLIC WORKS
[Signature] 6-18-84
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: OFFICE OF PLANNING AND ZONING
[Signature] 6-12-84
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

ENGINEER'S CERTIFICATE
 "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 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 30 DAYS OF COMPLETION."
[Signature] 12/23
 SIGNATURE OF ENGINEER DATE

DEVELOPER'S CERTIFICATE
 "I HEREBY 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 30 DAYS OF COMPLETION."
[Signature] 11/23/83
 SIGNATURE OF DEVELOPER DATE



#1038
FISHER, COLLINS AND CARTER, INC.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 8388 COURT AVENUE
 ELICOTT CITY, MARYLAND 21043
 TELEPHONE: (301) 461-2855

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 ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEMAILED NECESSARY."

James J. Newton 11/23/93
SIGNATURE OF DEVELOPER DATE

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.

Charles J. Cook 12/3/93
SIGNATURE OF ENGINEER DATE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

William K. Sills 6-11-94
U.S. SOIL CONSERVATION SERVICE DATE

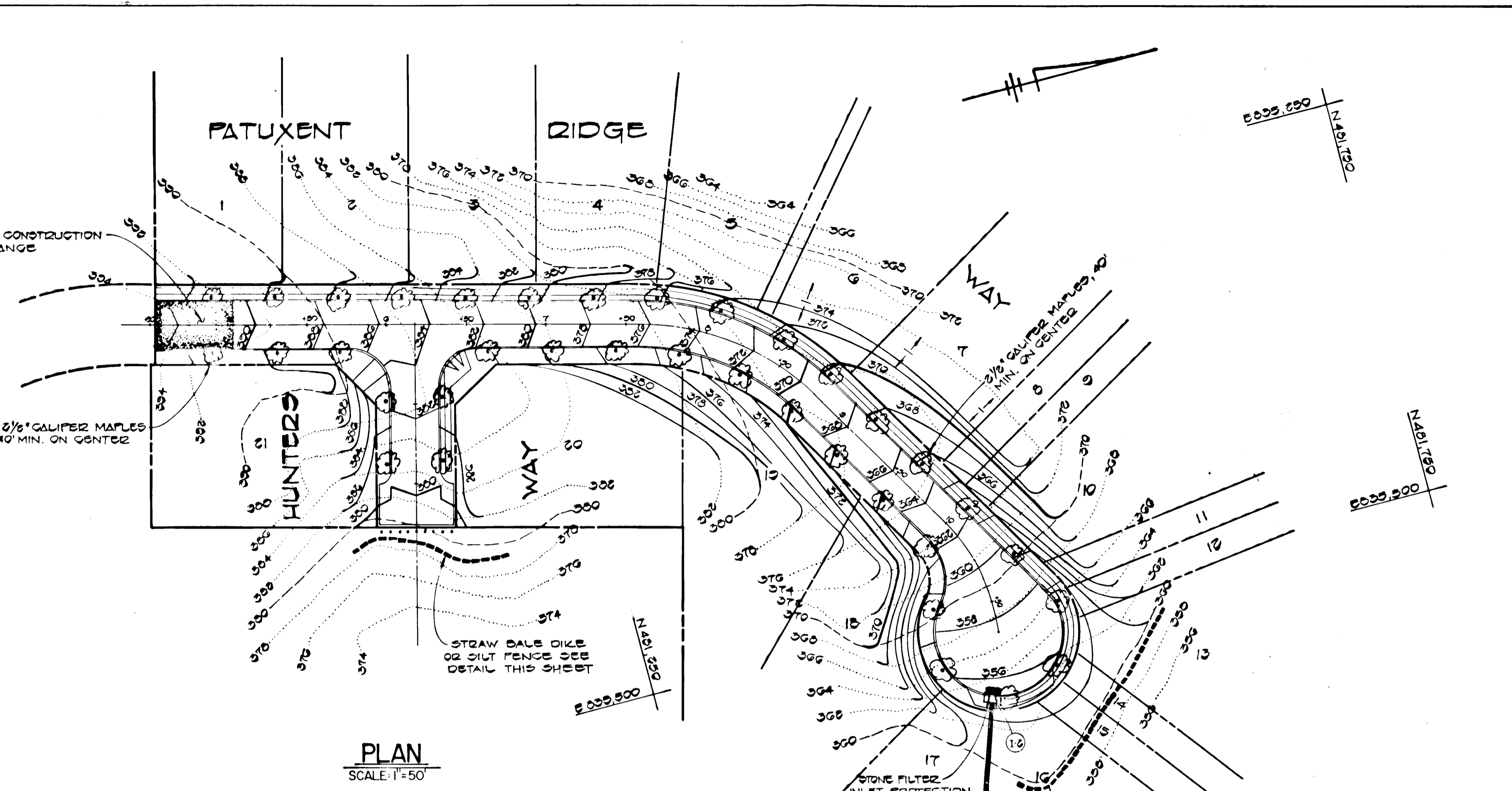
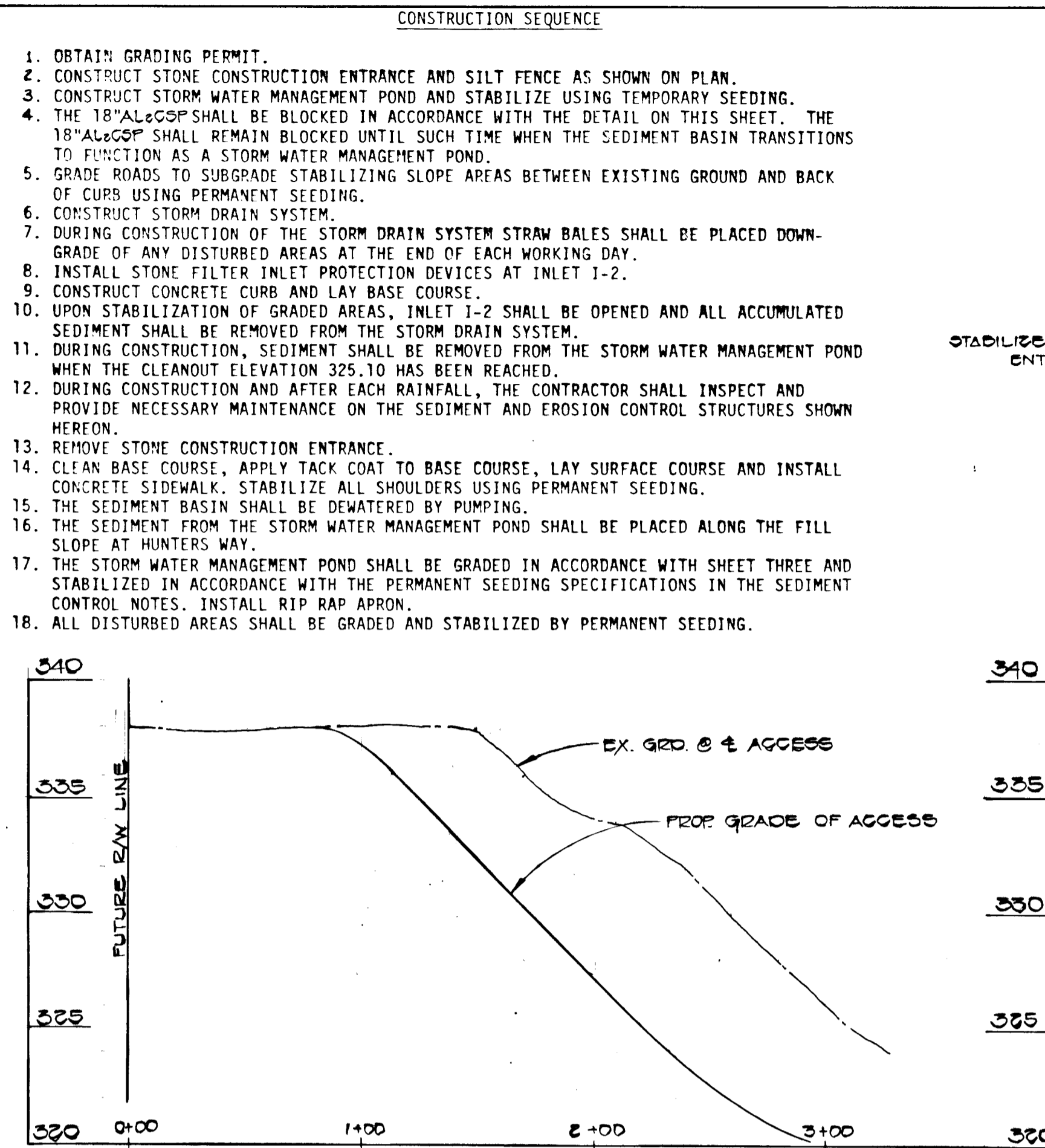
THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED:

Robert Zichner 6-11-94
DISTRICT ENGINEER DATE
HOWARD SOIL CONSERVATION DISTRICT
APPROVED: DEPARTMENT OF PUBLIC WORKS.

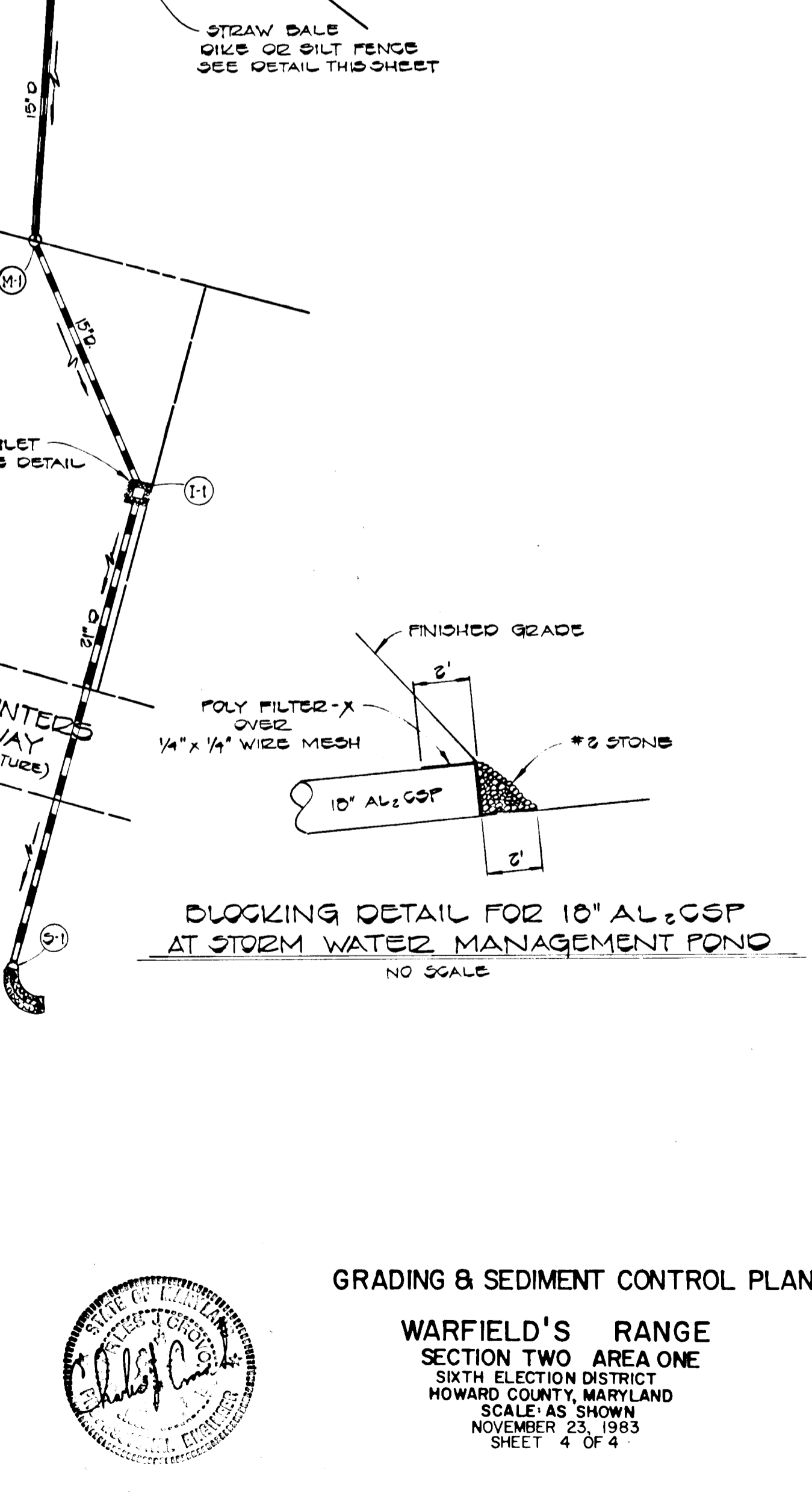
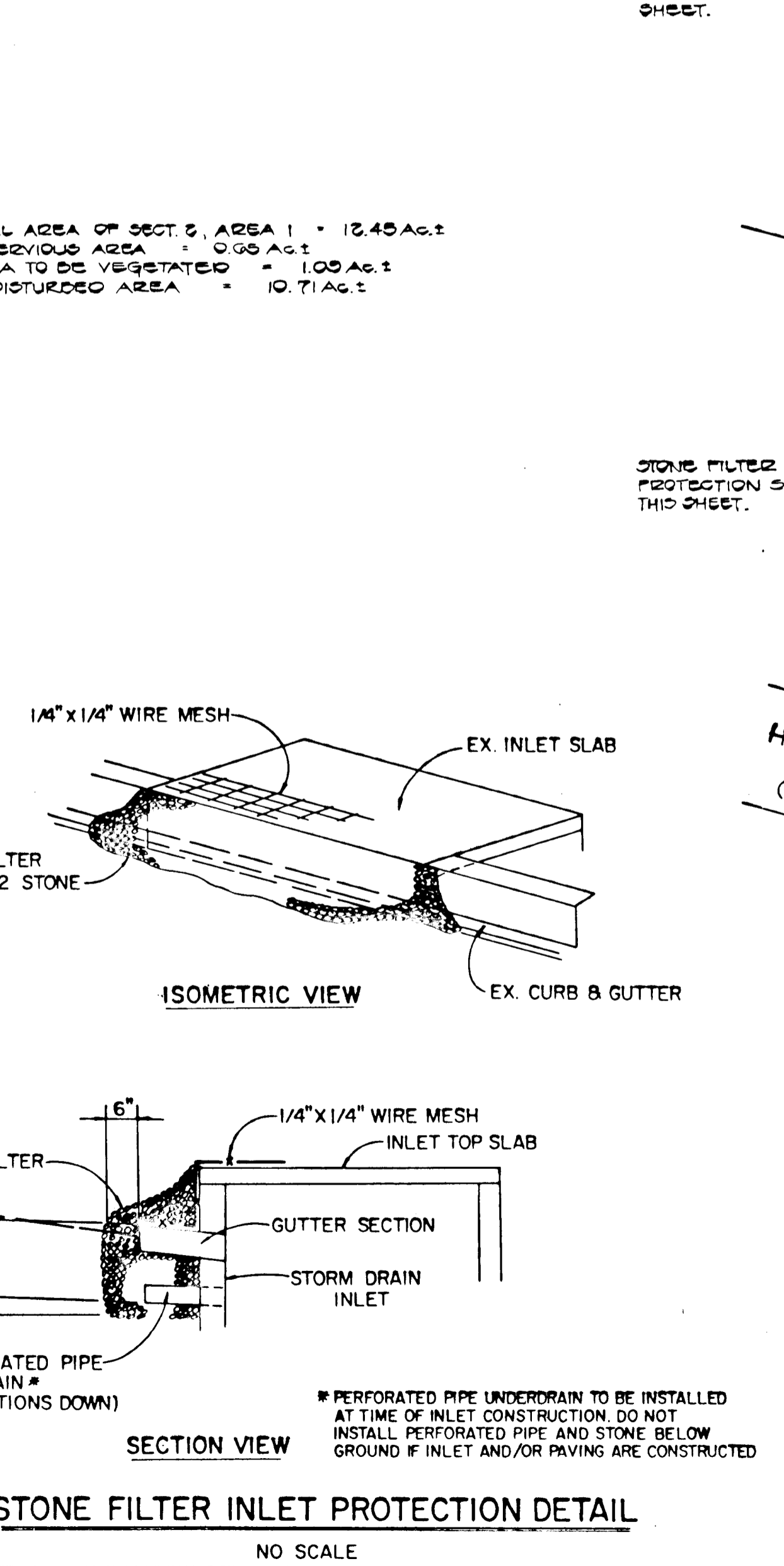
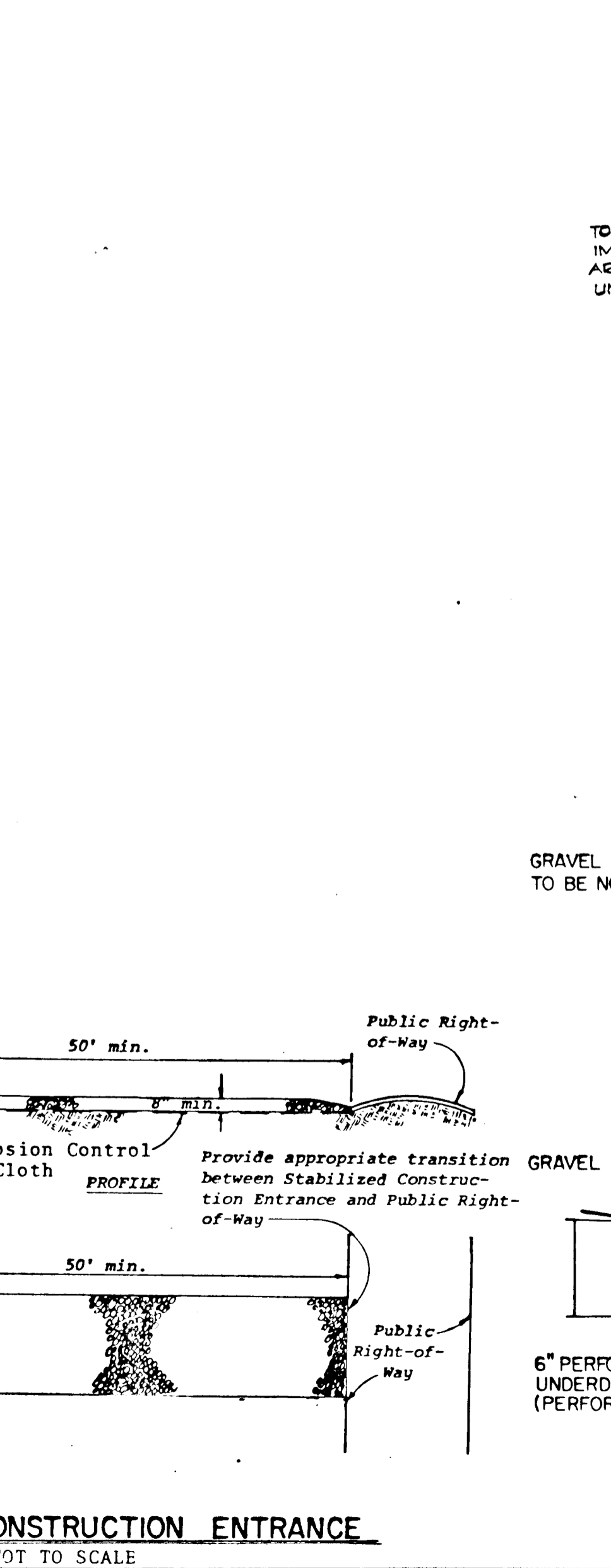
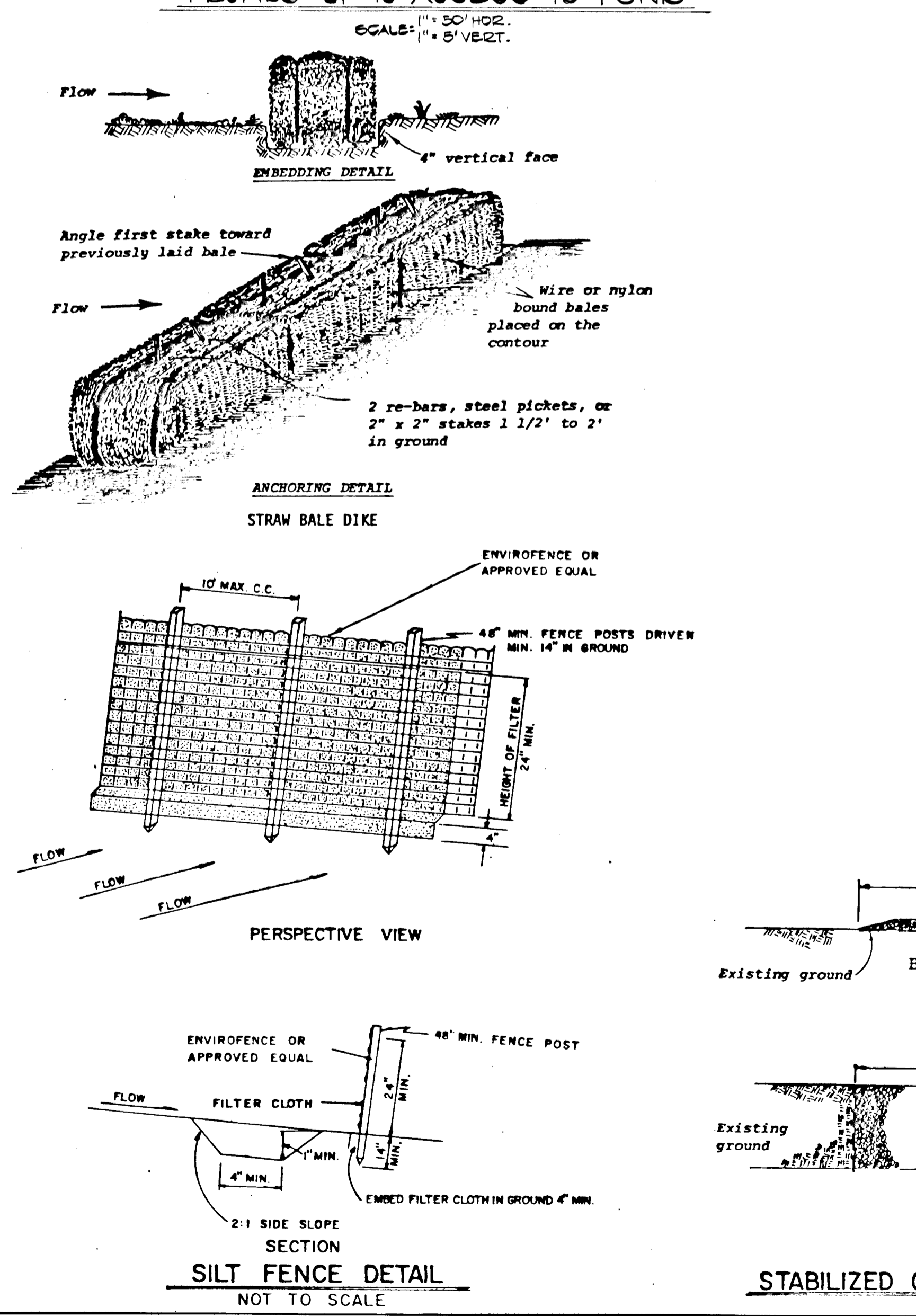
William E. Rhea 6-18-94
CHIEF, BUREAU OF ENGINEERING DATE
APPROVED: OFFICE OF PLANNING AND ZONING

William M. Muschman 6-12-94
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE



SEDIMENT CONTROL NOTES

- SPECIFICATIONS FOR THE SEDIMENT CONTROL DETAILS INCLUDED IN THE U.S.D.A. SOIL CONSERVATION SERVICE "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS."
- THE DEVELOPER SHALL NOTIFY THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS AT LEAST 24 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION SHOWN HEREON (992-2433).
- SEDIMENT CONTROL STRUCTURES TO BE CONSTRUCTED PRIOR TO ANY ON-SITE GRADING OR DISTURBANCE TO ANY EXISTING SURFACE MATERIAL, AND ARE TO BE STABILIZED AS SOON AS CONSTRUCTED.
- ALL SEDIMENT CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS (992-2433).
- ALL GRADED AREAS NOT TO BE SODDED SHALL BE STABILIZED BY SEEDING AND MULCHING IN ACCORDANCE WITH THE FOLLOWING:
 - SITE PREPARATION
 - HARROW OR DISC IN AREAS PROPOSED TO BE SEEDING THE FOLLOWING MATERIALS
 - PULVERIZED LIMESTONE AT 2 TONS/ACRE.
 - COMMERCIAL FERTILIZER 10-10-10 AT 3/4 TONS/ACRE.
 - SUPER PHOSPHATE AT 600 LBS./ACRE.
 - SEEDING
 - SOW THE FOLLOWING SEED MIXTURE AT THE RATE OF 200 LBS./ACRE WITH A MECHANICAL SPREADER.
 - TEMPORARY: ITALIAN OR PERENNIAL RYE GRASS.
 - PERMANENT: 40% MARION BLUE GRASS, 40% DAKOTA BLUE GRASS AND 20% PENN LAWN CREEPING FESCUE.
 - THE SEEDING AREA SHALL THEN BE RAKED WITH A YORK RATE (A MINIMUM OF 2 PASSES) COVERED AND COMPACTED WITH CULTIPACKER OR OTHER APPROVED METHOD.
 - MULCHING
 - SEEDING AREAS SHALL BE UNIFORMLY MULCHED IMMEDIATELY AFTER SEEDING WITH UNWEATHERED SMALL GRAIN STRAW AT THE RATE OF 1 1/2-2 TONS/ACRE.
 - TIE MULCH DOWN WITH LIQUID ASPHALT AT 0.1 GAL./S.Y. OR EMULSIFIED ASPHALT AT 0.04 GAL./S.Y. OR MULCH NETTING.
- A GRADING PLAN MUST BE DEVELOPED BY THE BUILDER AND APPROVED BEFORE BEGINNING CONSTRUCTION OF DWELLINGS.



#1038

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CONSULTING ENGINEERS AND LAND SURVEYORS
8388 COURT AVENUE
ELICOTT CITY, MARYLAND 21043
TELEPHONE: (301) 461-2855