

VICINITY MAP
SCALE: 1"=200'

NOTE:
Lots 80, 81, 82, 83 Unbuildable until
Re-tested For Percolation by
The Howard County Health
Department And Approved
By The County Health Officer

OWNER-DEVELOPER
THE HIGHLAND LAKE PARTNERSHIP
BUCHER, MYERS & ASSOC
8777 FIRST AVENUE
SILVER SPRING, MARYLAND, 20901
% W. BUCHER
301-588-3100

This area designates a private sewage easement of
approximately 10,000 g.p.d. as required by the Maryland State
Health Department for individual sewage disposal. Improvements
of any nature in this area are restricted until public sewage is
available and serving any residential structures constructed on
these building sites. This easement shall become null and void
upon annexation to a public sewage system.

ENGINEER'S CERTIFICATE
I hereby certify that the information
shown herein is true and correct to the
best of my knowledge and that the locations
of the percolation tests shown herein
are correct.
George J. Shea

APPROVED: DEPARTMENT OF PUBLIC WORKS
W. O. Pitzer 6-4-79
CHIEF, BUREAU OF ENGINEERING DATE
APPROVED: OFFICE OF PLANNING AND ZONING
William M. ... 5-18-79
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

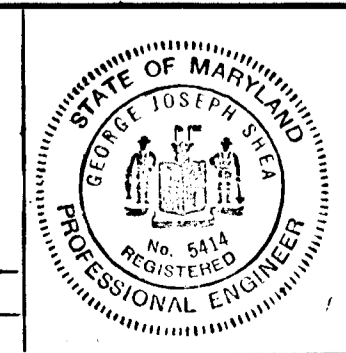
DRAINAGE AREA MAP
SECTION THREE
AREA TWO
HIGHLAND LAKE
ELECTION DISTRICT 5
HOWARD COUNTY, MARYLAND
Tax Map #3d, Parcel #170

JOB NUMBER
1780-002-0
SHEET NO.
1
OF 4 SHEETS

TOUPS AND LOIEDERMAN
ENGINEERS, PLANNERS, LANDSCAPE ARCHITECTS
JOSEPH R. HARRIS BUILDING
1370 PICCARD DRIVE ROCKVILLE, MARYLAND 20850 301-210-1300

NO.	REVISIONS	BY	DATE
1	Revised Layout Lots 80, 81, 82, 83	AID	5-23-78
2	Revised Isle of Skye Dr., lots layout	AID	2-17-79
3	Revised Lot Areas - Added Parcel's C & D	AID	4-25-79

PREPARED UNDER THE SUPERVISION OF
George J. Shea
5414 3/5/79
DATE
DESIGNED A.I.D. CHECKED GHS SCALE 1"=100'
DRAWN A.I.D. DATE March 1, 1979 REF.



APPROVED: DEPARTMENT OF PUBLIC WORKS

W.O. Pickett 6-4-79
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: OFFICE OF PLANNING AND ZONING

Shelley M. ... 5-18-79
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

All construction will be in accordance with the latest edition of the 'Howard County Road Construction Code and Specifications.'

Reviewed for *Howard* S.C.D.

meets Technical Requirements *Winston Bond* Date 5/15/79

US Soil Conservation Service

This development plan is approved for sediment control by the Howard Soil Conservation District.

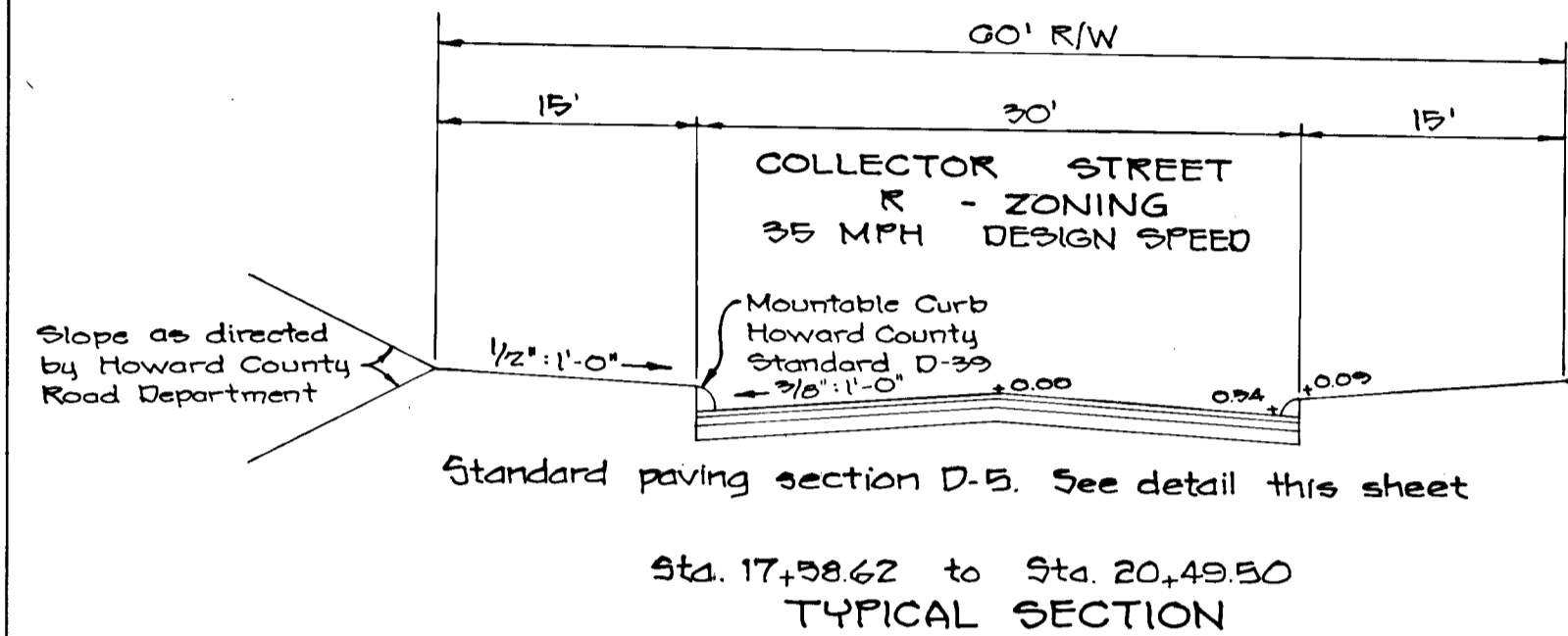
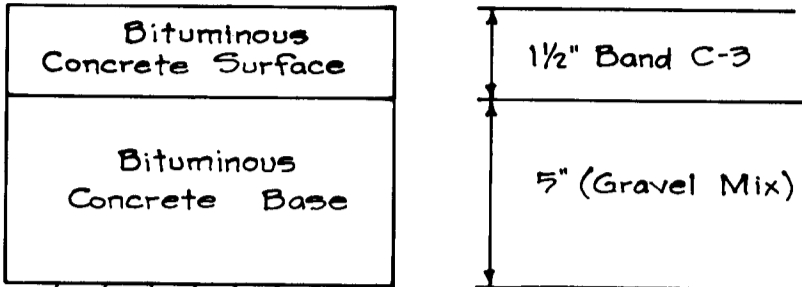
Approved *R. Ziehm* Howard S.C.D.

Date 5/15/79

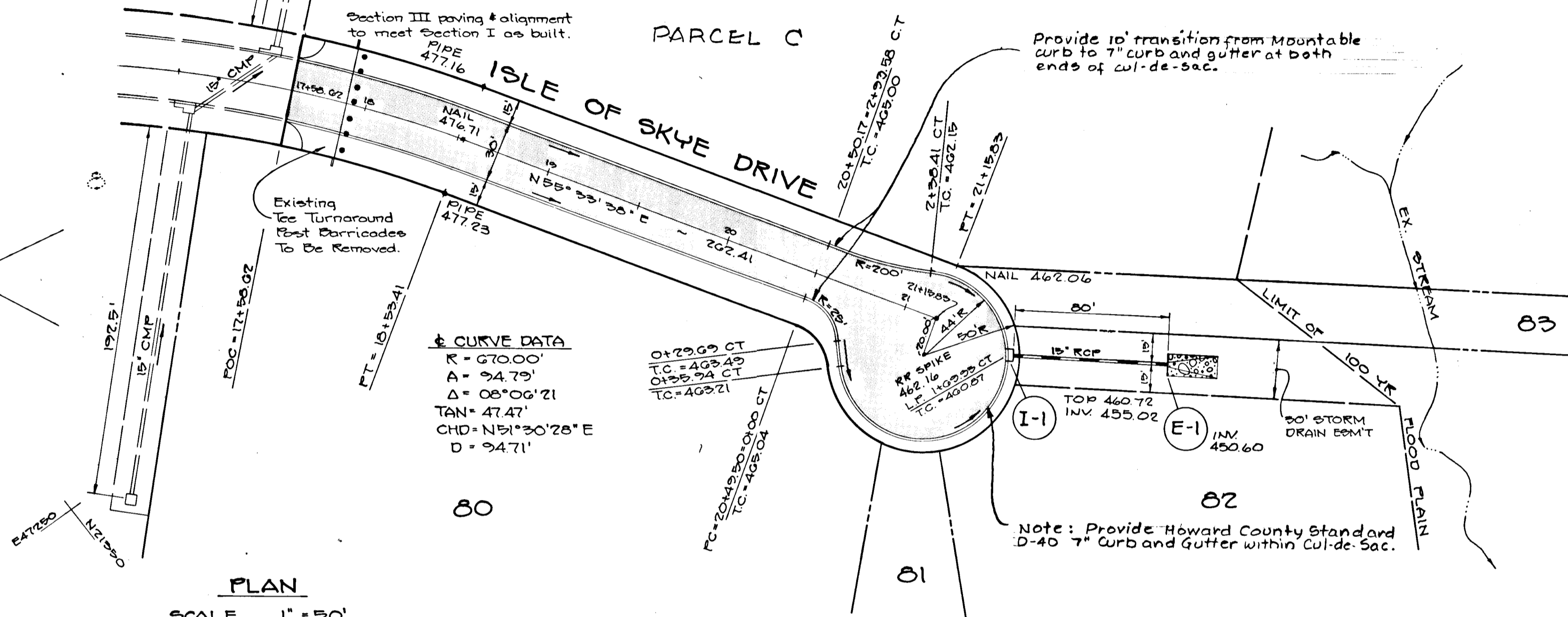
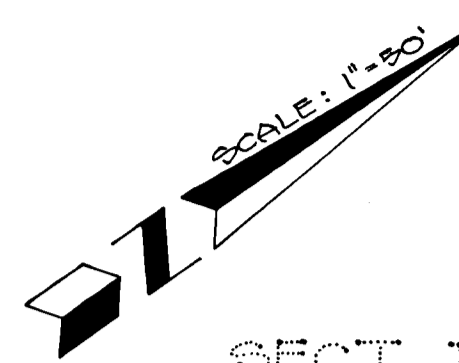
GRADE ESTABLISHMENT STORM DRAIN AND PAVING PLAN ISLE OF SKYE DRIVE SECTION III AREA 2 HIGHLAND LAKE

ELECTION DISTRICT # 5
HOWARD COUNTY, MARYLAND
MARCH 3, 1979

Clearing and Grading:
Article C-1
Subgrade:
Article C-2
Base Course:
Article C-33
Surface Course:
Article C-31



Sta. 17+58.62 to Sta. 20+49.50
TYPICAL SECTION



CURVE DATA
R = 94.71'
A = 94.73'
Δ = 05°06'21"
TAN = 47.47'
CHD = N51°30'28"E
D = 94.71'

Provide 10' transition from mountable curb to 7" curb and gutter at both ends of cul-de-sac.

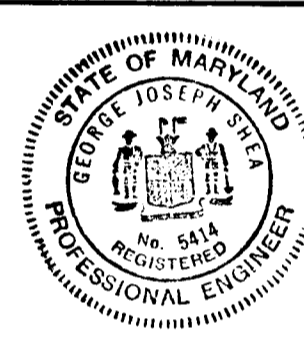
Note: Provide Howard County Standard D-40 7" Curb and Gutter within Cul-de-Sac.

OWNER/DEVELOPER
THE HIGHLAND LAKE PARTNERSHIP
BUCHER, MYERS & ASSOCIATES
8777 FIRST AVENUE
SILVER SPRING, MD 20919

PRC TOLPS CORPORATION
1970 PICCARD DRIVE
ROCKVILLE, MARYLAND 20850
301-840-1300

PREPARED UNDER THE SUPERVISION OF

George J. Shea



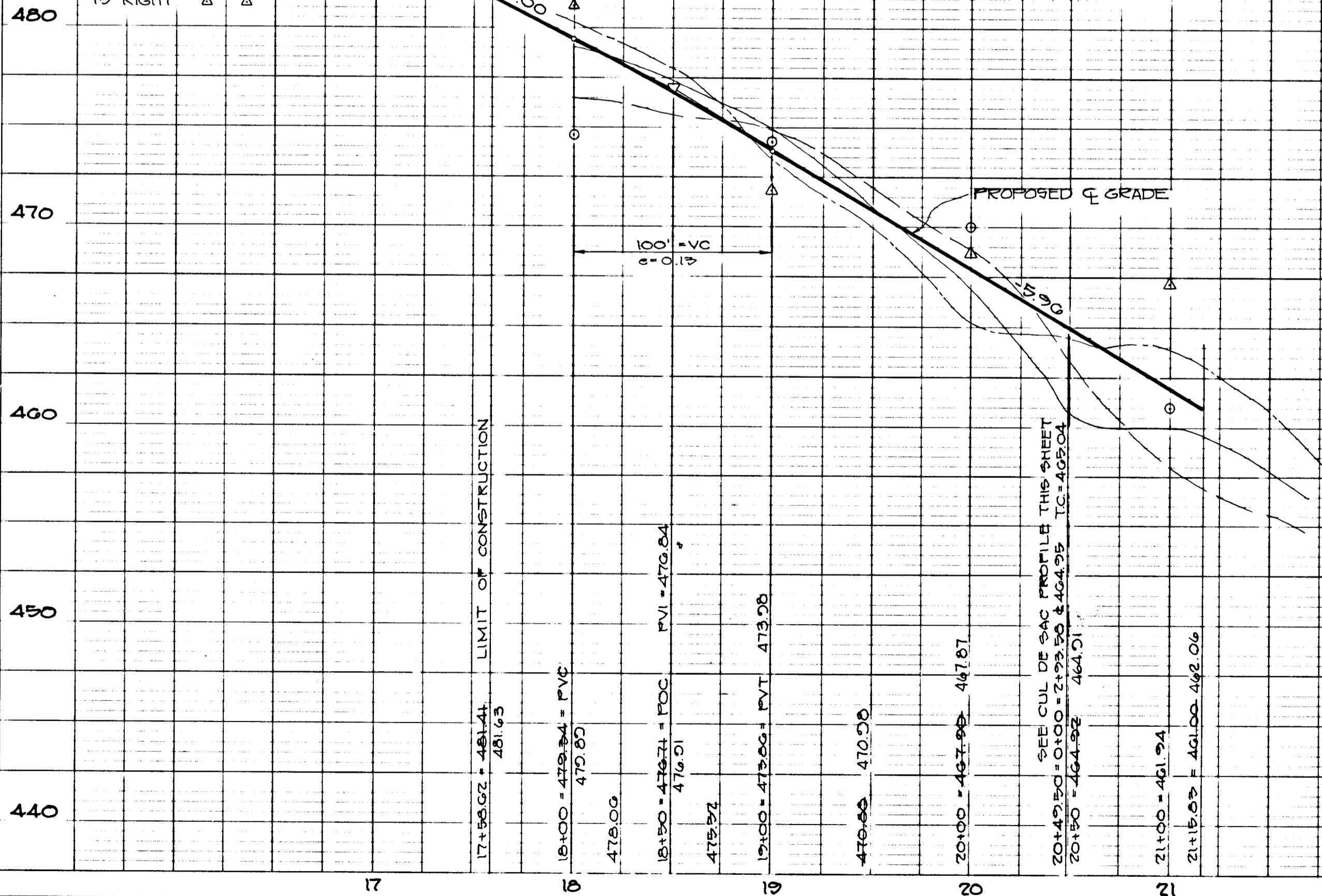
5414 FE NO. 3/5/79 DATE

LEGEND

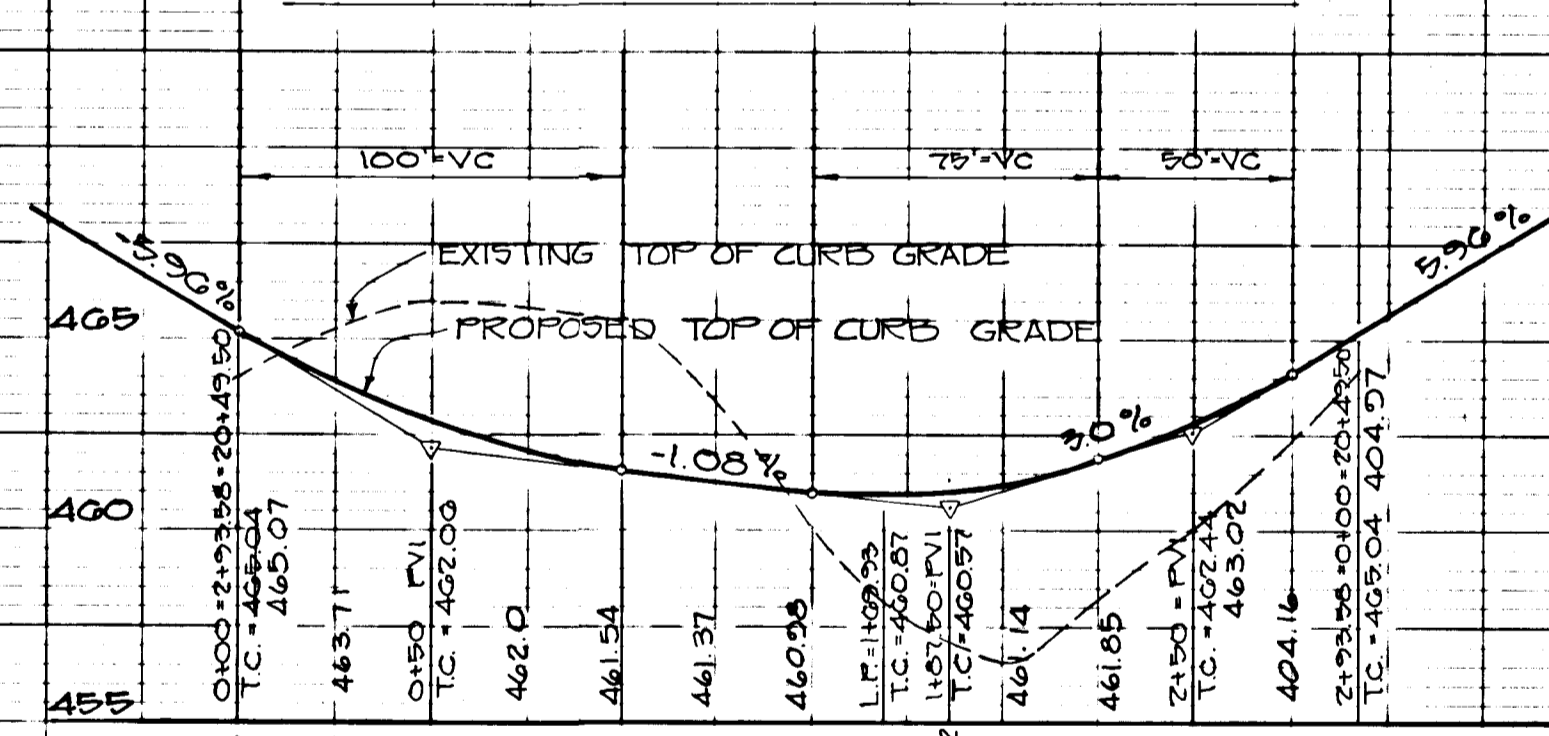
30' LEFT	---
30' RIGHT	---
75' LEFT	---
75' RIGHT	---

PROFILE

SCALE HOR: 1" = 50'
VERT: 1" = 5'
SSD: 250'



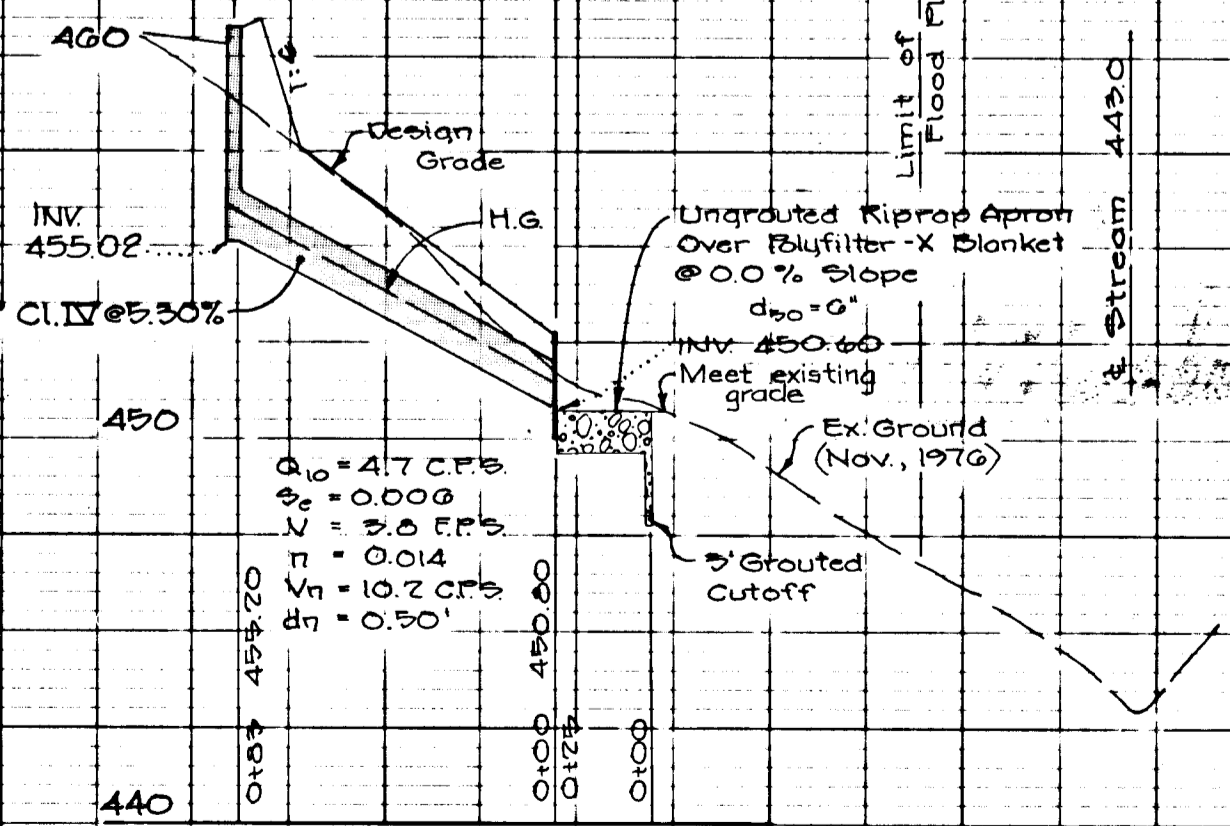
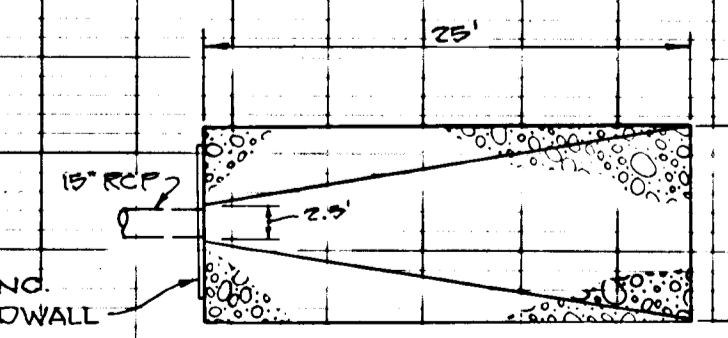
CUL DE SAC PROFILE - TOP OF CURB

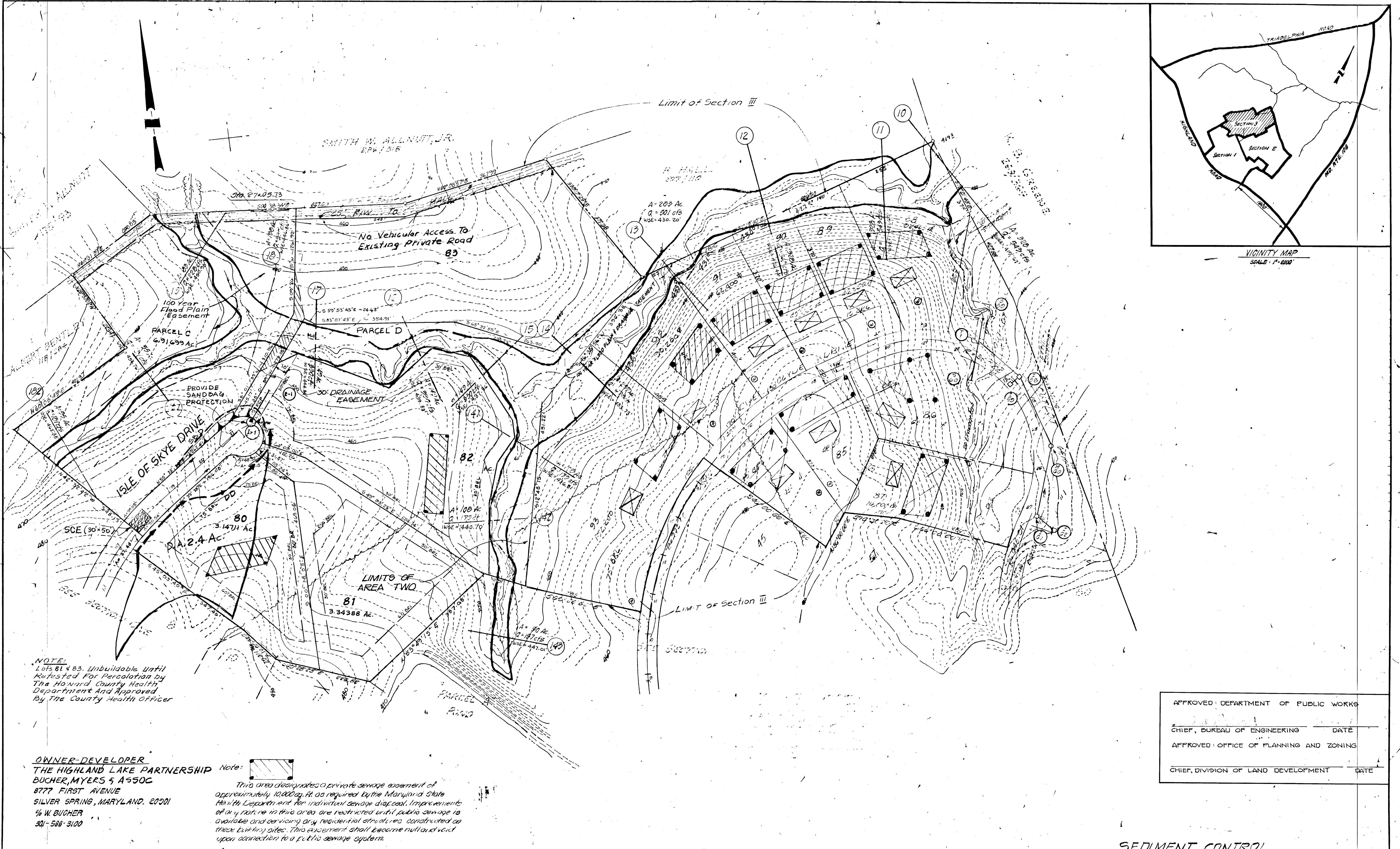


STRUCTURE SCHEDULE

NO	TYPE	INVERT IN	OUT	LOCATION	REMARKS
I-1	A-S INLET	-455.02	455.20	T.C. Sta. 1468.93	DWG. G4-A, PG. 119A
E-1	C ENDWALL	450.80	-	Tied on Plan	DWG. D52, PG. 107

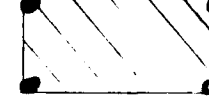
UNROUTED RIPRAP APRON DETAIL





NOTE:
Lots 81 & 83. Unbuildable until
Revised For Percolation by
The Howard County Health
Department and Approved
By The County Health Officer

OWNER-DEVELOPER
THE HIGHLAND LAKE PARTNERSHIP
BUCHER, MYERS & ASSOC
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Note:  This area designates a private sewage easement of approximately 10,000 sq. ft. as required by the Maryland State Health Department for individual sewage disposal. Improvements of any nature in this area are restricted until public sewage is available and servicing any residential structures constructed on these building sites. This easement shall become null and void upon connection to a public sewage system.

APPROVED: DEPARTMENT OF PUBLIC WORKS

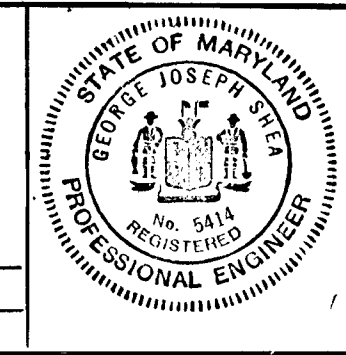
CHIEF, BUREAU OF ENGINEERING DATE _____
APPROVED: OFFICE OF PLANNING AND ZONING

CHIEF, DIVISION OF LAND DEVELOPMENT DATE _____

TOUPS AND LOIEDERMAN
ENGINEERS, PLANNERS, LANDSCAPE ARCHITECTS
JOSEPH R. HANNEY BUILDING
1370 PICCARD DRIVE, ROCKVILLE, MARYLAND 20850 201-940-1200

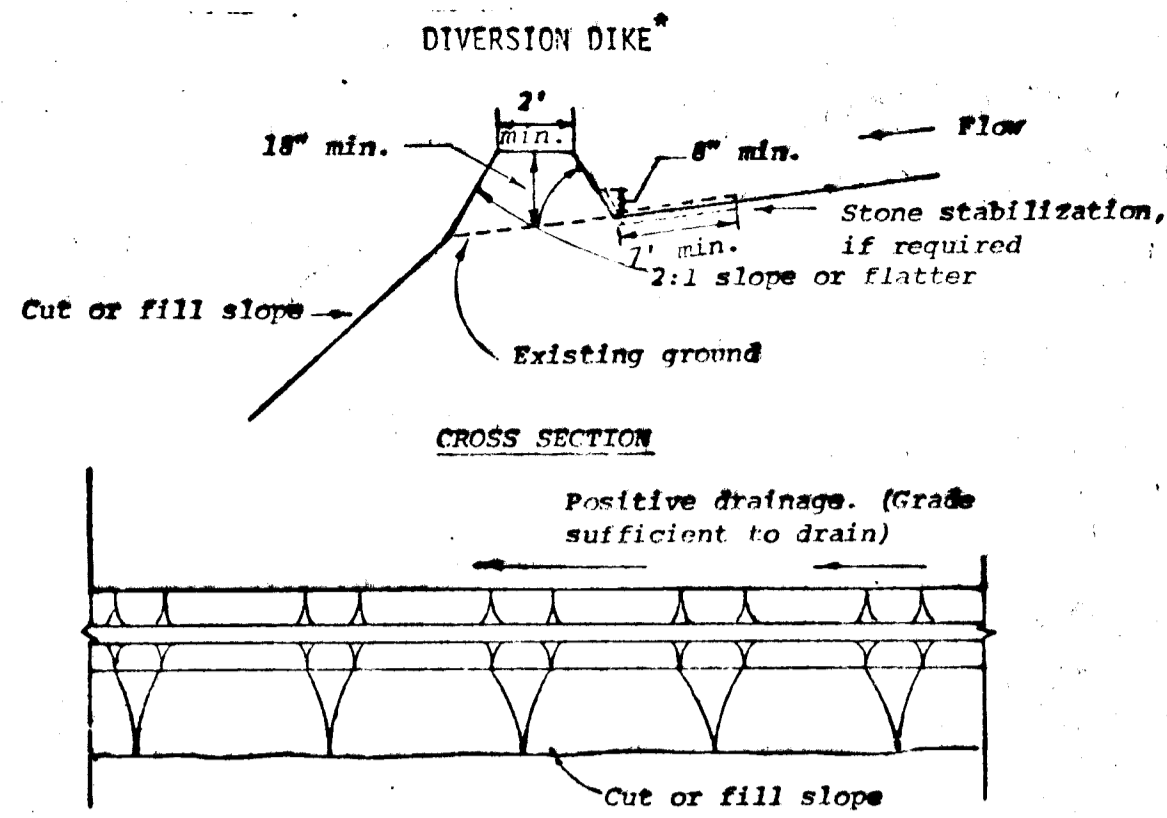
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PREPARED UNDER THE SUPERVISION OF:
George J. Shea
3/5/79
P. E. NO. _____ DATE _____
DESIGNED A.I.D. CHECKED G.E.H. SCALE 1"=100'
DRAWN R.T.P. DATE 3-3-79 REF. _____

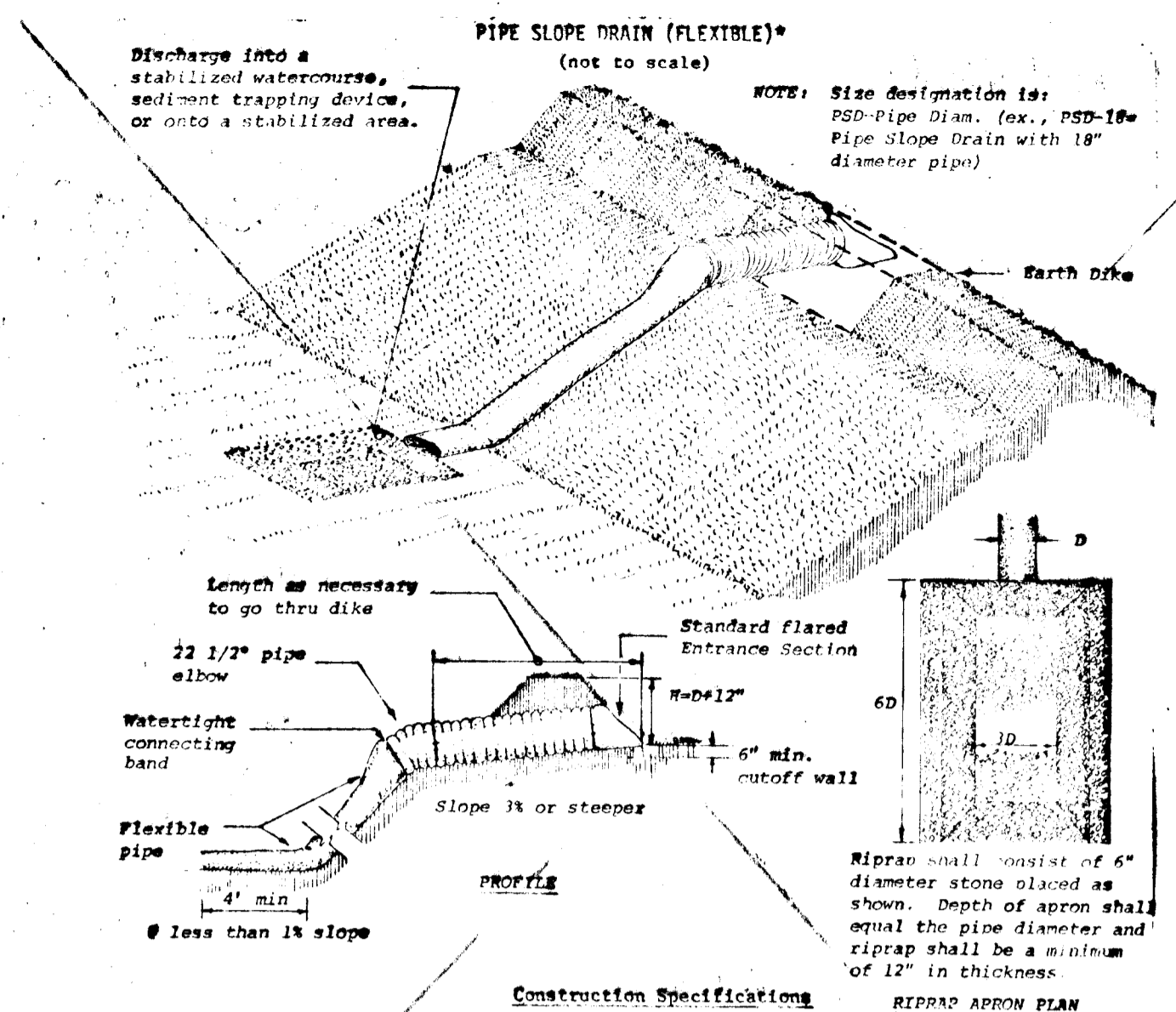


SEDIMENT CONTROL
SECTION THREE
AREA TWO
HIGHLAND LAKE
ELECTION DISTRICT 5
HOWARD COUNTY, MARYLAND
Tax Map #34, Parcel #170

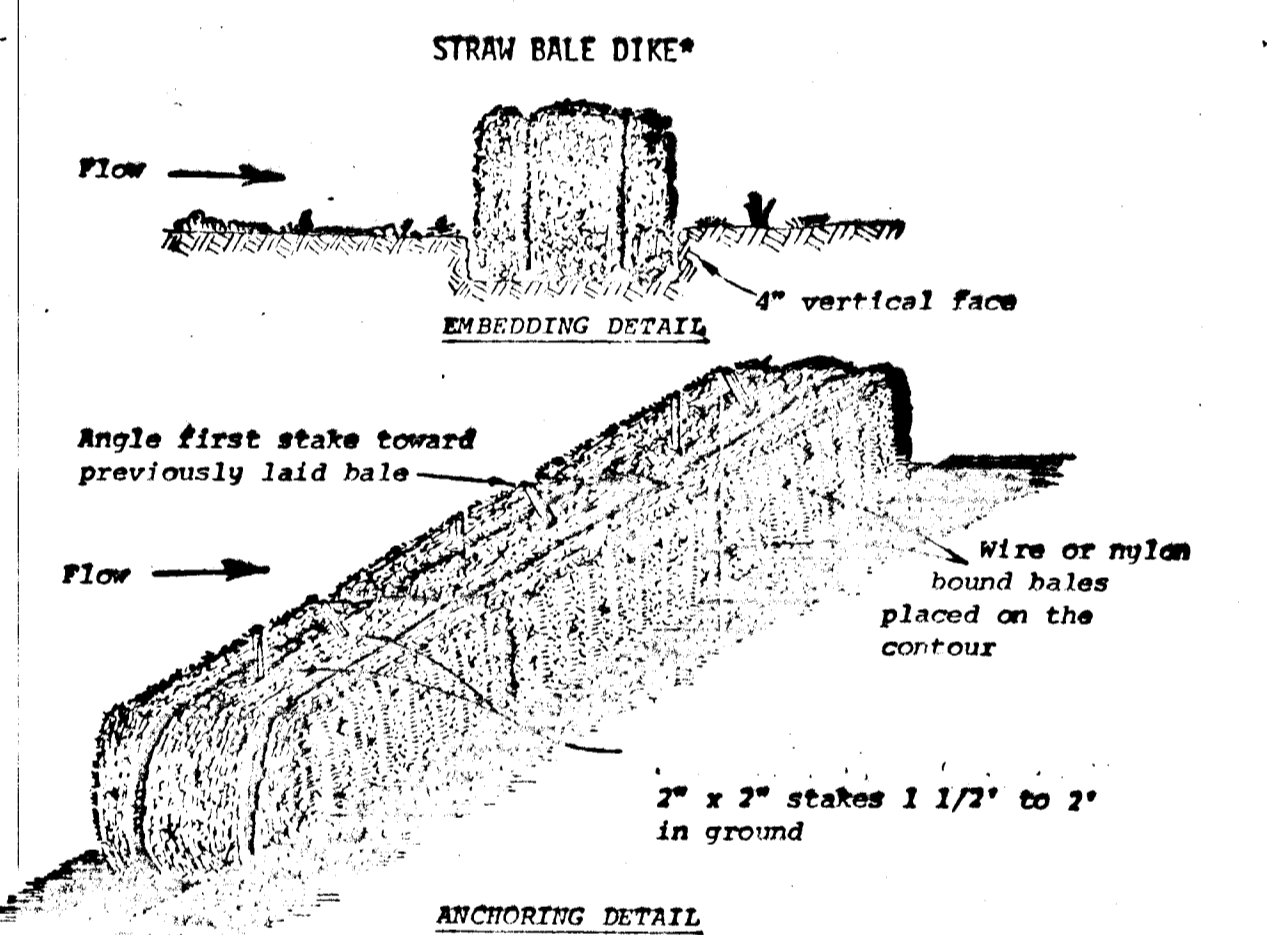
JOB NUMBER 1780-004-3
SHEET NO. 3
OF 4 SHEETS



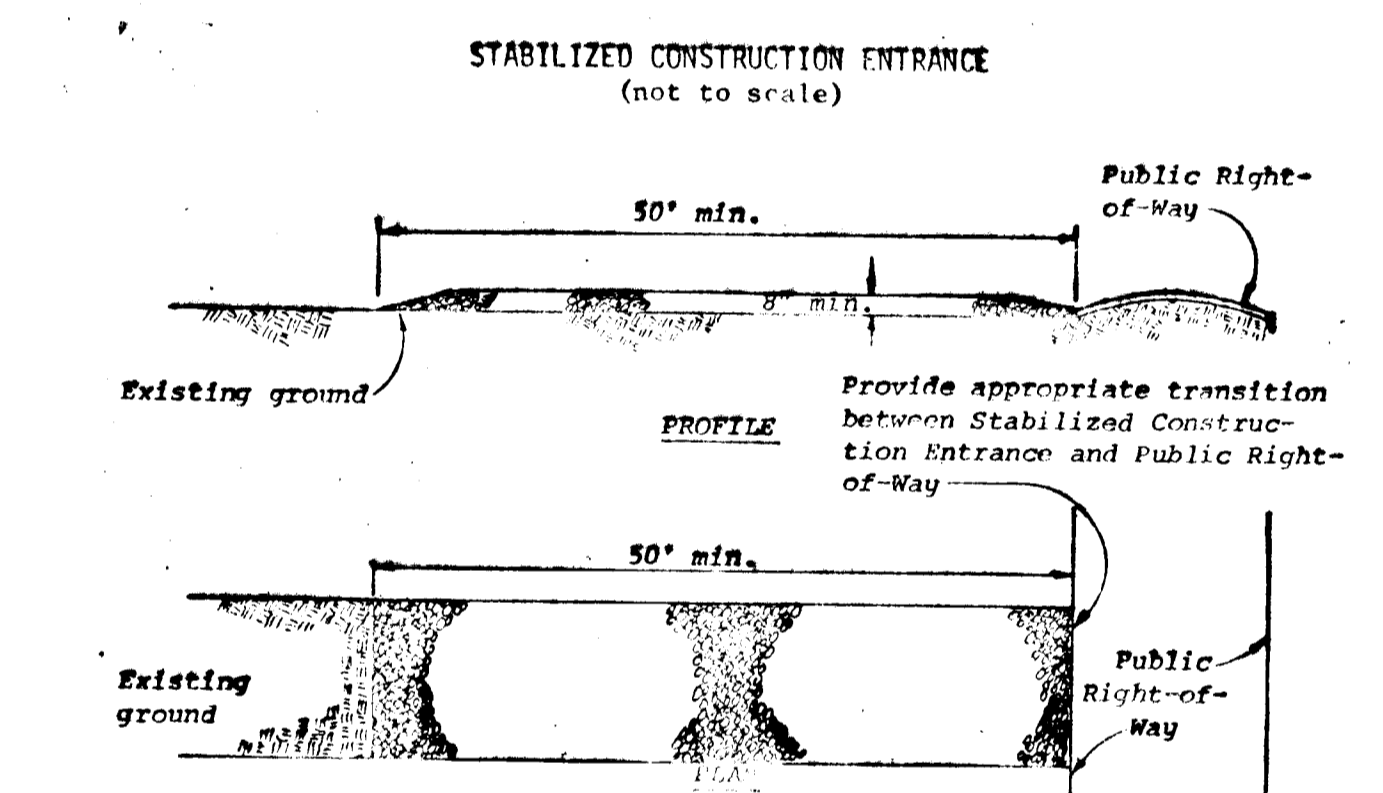
- Construction Specifications**
- All dikes shall be machine compacted.
 - All diversion dikes shall have positive drainage to an outlet.
 - A. Diverted runoff from a protected or stabilized area shall outlet directly to an undisturbed stabilized area or into a level spreader or grade stabilization structure.
 - B. Diverted runoff from a disturbed or exposed upland area shall be conveyed to a sediment trapping device such as a sediment trap or a sediment basin or to an area protected by any of these practices.
 - Stabilization, as specified by the plans, shall be: (1) in accordance with Standard and Specifications for Grassed Waterway, and the area to be stabilized shall be the channel (flow area); and (2) the flow area shall be lined with stone that meets MSHA size No. 2 or AASHTO M43 size No. 2 or 24 which is placed in a 3 inch thick layer and pressed into the soil. The area covered by the stone shall be as shown on the drawing above.
 - Periodic inspection and required maintenance shall be provided.
- Standard Symbol Drainage area less than 5 acres



- Construction Specifications**
- The inlet pipe shall have a slope of 3X or steeper.
 - The top of the earth dike over the inlet pipe and those dikes carrying water to the pipe shall be at least 1' higher at all points than the top of the inlet pipe.
 - The inlet pipe shall be corrugated metal pipe with watertight connecting bands.
 - The flexible tubing shall be the same diameter as the inlet pipe and shall be constructed of a durable material with hold-down grommets spaced 10' on centers.
 - The flexible tubing shall be securely fastened to the corrugated metal pipe with metal strapping or watertight connecting collars.
 - The flexible tubing shall be securely anchored to the slope by staking at the grommets provided.
 - A riprap apron shall be provided at the outlet. This shall consist of 6" diameter stone placed as shown on Standard Drawing 655-3.
 - The wall around and under the inlet pipe and entrance section shall be hand tamped in 4" lifts to the top of the earth dike.
 - Follow-up inspection and any needed maintenance shall be performed after each storm.
- Standard Symbol Drainage area less than 5 acres



- Construction Specifications**
- Bales shall be placed in a row with ends tightly abutting the adjacent bales.
 - Each bale shall be embedded in the soil a minimum of 4".
 - Bales shall be securely anchored in place by stakes or re-bars driven through the bales. The first stake in each bale shall be angled toward previously laid bales to force bales together.
 - Inspection shall be frequent and repair or replacement shall be made promptly as needed.
 - Bales shall be removed when they have served their usefulness so as not to block or impede storm flow or drainage.
- Standard Symbol Drainage area less than 1/2 acre



- Construction Specifications**
- Stone size - Use MSHA size No. 2 (2-1/2" to 1") or AASHTO designation M43, size No. 2 (2-1/2" to 1-1/2"). Use crushed stone.
 - Length - As effective, but not less than 50 feet.
 - Thickness - Not less than eight (8) inches.
 - Width - Not less than full width of all points of ingress or egress.
 - Washing - When necessary, wheels shall be cleaned to remove sediment prior to entrance onto public right-of-way. When washing is required, it shall be done on an area stabilized with crushed stone which drains into an approved sediment trap or sediment basin. All sediment shall be prevented from entering any storm drain, ditch, or watercourse through use of sand bags, gravel, boards or other approved methods.
 - 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.
- Standard Symbol Stabilized Construction Entrance

SEDIMENT CONTROL NOTES

- Contractor installing sediment control items shall obtain and follow the "Standards and Specifications for Soil Erosion and Sediment Control in Developing Areas" (herein after referred to as "Standards and Specifications"), dated July 1975, from the Howard Soil Conservation District (H.S.C.D.), 9025 Chevrolet Drive, Ellicott City, Maryland 21043, Phone 465-3180.
- Install and maintain sediment control measures in strict accordance with these approved plans and the criteria and specifications adopted by the Howard Soil Conservation District.
- Sediment control measures may require minor field adjustments at the time of construction to ensure that their intended purpose is accomplished. H.S.C.D. approval will be required for any other deviation from the approved plan.
- Provide periodic inspection and maintenance of all sediment control measures to ensure that maximum sediment control efficiency is obtained until final stabilization of site has taken place.
- Install sediment control devices prior to any grading operations so that effective sediment control can be achieved during the entire grading operation period.
- After clearing, temporarily stabilize any disturbed area that is to be exposed for more than 30 days (but less than 60 days) as follows:
 - Apply small grain straw mulch at a uniform rate of 1 1/2 to 2 tons per acre.
 - Anchor mulch immediately after placement by spraying with a liquid binder of either cut-back or emulsified asphalt at a rate of 200 gal./acre.
- Stabilize all disturbed areas at a grade less than 3 to 1 and not covered by paving as soon as possible by permanent seeding and mulching as follows:
 - Scarify surface to a depth of 3 inches.
 - Seed with a mixture of 15 pounds "Crownvetch" (inoculated) plus 40 pounds "Kentucky 31" tall fescue per acre.
 - Apply straw mulch uniformly at a rate of 1 1/2 to 2 tons per acre.
 - Anchor mulch immediately after placement with either cut-back or emulsified asphalt. Apply at a minimum rate of 200 gal./acre. Application should be heavier in valleys, at the crest of banks and along edges.

- Stabilize all disturbed areas at a grade equal to or greater than 3 to 1 and not covered by paving, as well as all drainage swales, as soon as possible by sodding. Class of sod shall be Maryland State approved or certified, machine cut to a uniform thickness of 3/4 inch (+ 1/4 inch) excluding top growth and thatch. Sod shall be installed within 36 hours of harvesting or be subject to inspection and approval by H.S.C.D. Lay sod to a tight fit. Roll to ensure contact with underlying soil. Water as necessary for first two weeks (in summer) to ensure establishment.
- If stabilization of disturbed areas is to be accomplished during the months of December, January, or February, the stabilization shall consist of mulching in accordance with Note 6 above. Seeding and mulching shall then be done as soon as the season permits.



NOTE: Form 18" High Dike of Sand-Bags Around Inlet, Stagger Sand-Bags

- Prior to seeding or sodding, the following amounts of fertilizer (10-10-10) and ground agricultural limestone will be incorporated into the subsoil by disking:

Seeding Areas:	Fertilizer:	500 lbs./acre
	Limestone:	1,000 lbs./acre
Sodding Areas:	Fertilizer:	1,000 lbs./acre
	Limestone:	2,000 lbs./acre
- The term "seeding" on this plan shall mean the successful germination and establishment of a stable grass cover from a properly prepared seedbed containing the specified amounts of lime and fertilizer, in accordance with the applicable "Standards and Specifications".
- The term "mulching" on this plan shall mean the application and anchoring of a H.S.C.D. approved mulch (such as wheat straw or Timothy hay) in accordance with the applicable "Standards and Specifications".
- All points of construction ingress and egress shall be stabilized as per the H.S.C.D. standard for stabilized construction entrances to prevent tracking of mud onto public ways.
- Notify the Howard County Department of Inspection and Permits before the start of work and before removal of temporary sediment control measures.
- Notify the Howard County Department of Inspection and Permits if the accompanying construction schedule cannot be met, and provide the said Department with a revised construction schedule.
- Prevent all sediment from entering any constructed storm drainage system through the use of sand bags, gravel, board or other applicable method.
- The Highland Partnership, developers of the site, will be responsible for the maintenance of the sediment control and storm water management structures to ensure that they remain clear of debris and in effective working condition, after completion and acceptance of the work.
- The sediment control measures shown on this plan are designed for use during construction of the roads and storm drainage system within the limits of Section III as delineated on Sheet 6 of these Drawings.
- Use 4-inch to 6-inch surge stone in place of #2 gravel in all sediment control structures.
- Prior to proceeding with any construction, the contractor shall obtain a grading permit.

CONSTRUCTION SCHEDULE (PHASE II)

Item No.	Item	Start	Complete
1.	Sediment control	May, 1977	May, 1977
2.	Rough grading	May, 1977	May, 1977
3.	Storm drain	May, 1977	Jun. 1977
4.	Final grading	Jun. 1977	Jun. 1977
5.	Paving	Jun. 1977	Jun. 1977
6.	Final stabilization	Jul. 1977	Aug. 1977

Note: Approval requested this submission for Phase II only.

reviewed for Howard S.C.D.
Name
and meets Technical Requirements
Wendell Bonham Date 5/15/77
Signature
U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Approved R. Johnson Date 5/15/77
Howard S.C.D.

OWNER - DEVELOPER
The Highland Lake Partnership
Bucher Myers & Associates
8777 First Avenue
Silver Spring, Md. 20910

APPROVED: DEPARTMENT OF PUBLIC WORKS
Edo P. Ballant 6-4-77
CHIEF BUREAU OF ENGINEERING
APPROVED: OFFICE OF PLANNING AND ZONING
William M. ... 5-18-77
CHIEF, DIVISION OF LAND DEVELOPMENT

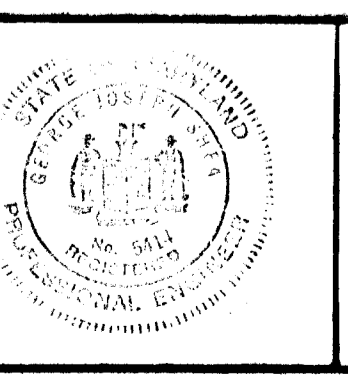
"I certify that all development and/or construction will be done according to this plan of development and plan for Erosion and Sediment Control, and I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary."
Wendell Bonham
Signature of Developer
9/20/76
Date

"I 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."
James J. ...
Signature of Engineer
7/20/76
Date

TOUPS AND LOIEDERMAN
ENGINEERS, PLANNERS, LANDSCAPE ARCHITECTS
JOSEPH R. HARRIS BUILDING
1370 PICCARD DRIVE ROCKVILLE MARYLAND 20850 301-840-1300
A PLANNING RESEARCH CORPORATION COMPANY

NO.	REVISIONS	BY	DATE

PREPARED UNDER THE SUPERVISION OF
James J. ...
DATE 3/5/77
P. E. NO. 5414
DESIGNED _____ CHECKED _____ SCALE AS SHOWN
DRAWN _____ DATE _____ REF. _____



SECTION THREE -
SEDIMENT CONTROL DETAILS
HIGHLAND LAKE
ELECTION DISTRICT 3
HOWARD COUNTY, MARYLAND
TAX MAP #34 PARCEL #170
JOB NUMBER 1780-004-0
SHEET NO. 4
OF 7 SHEETS