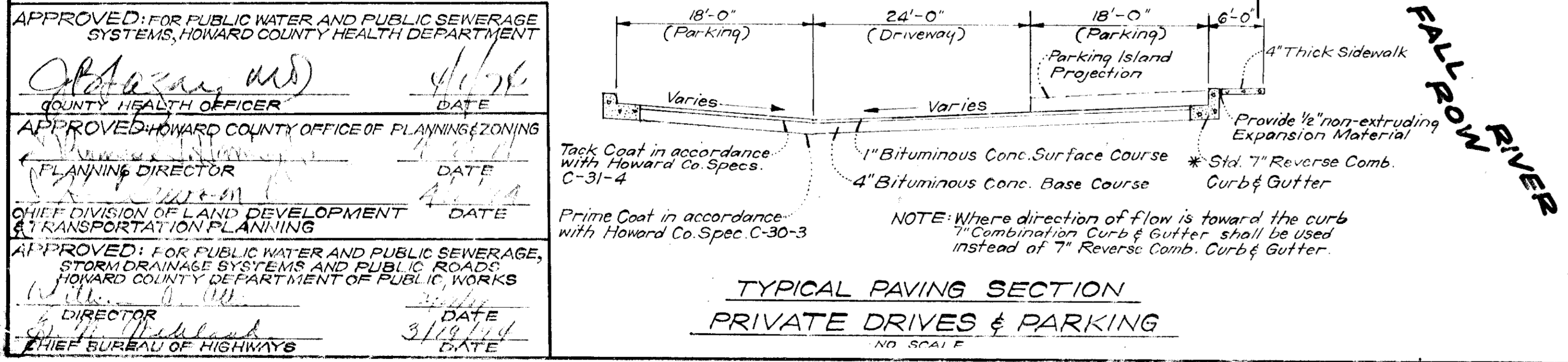
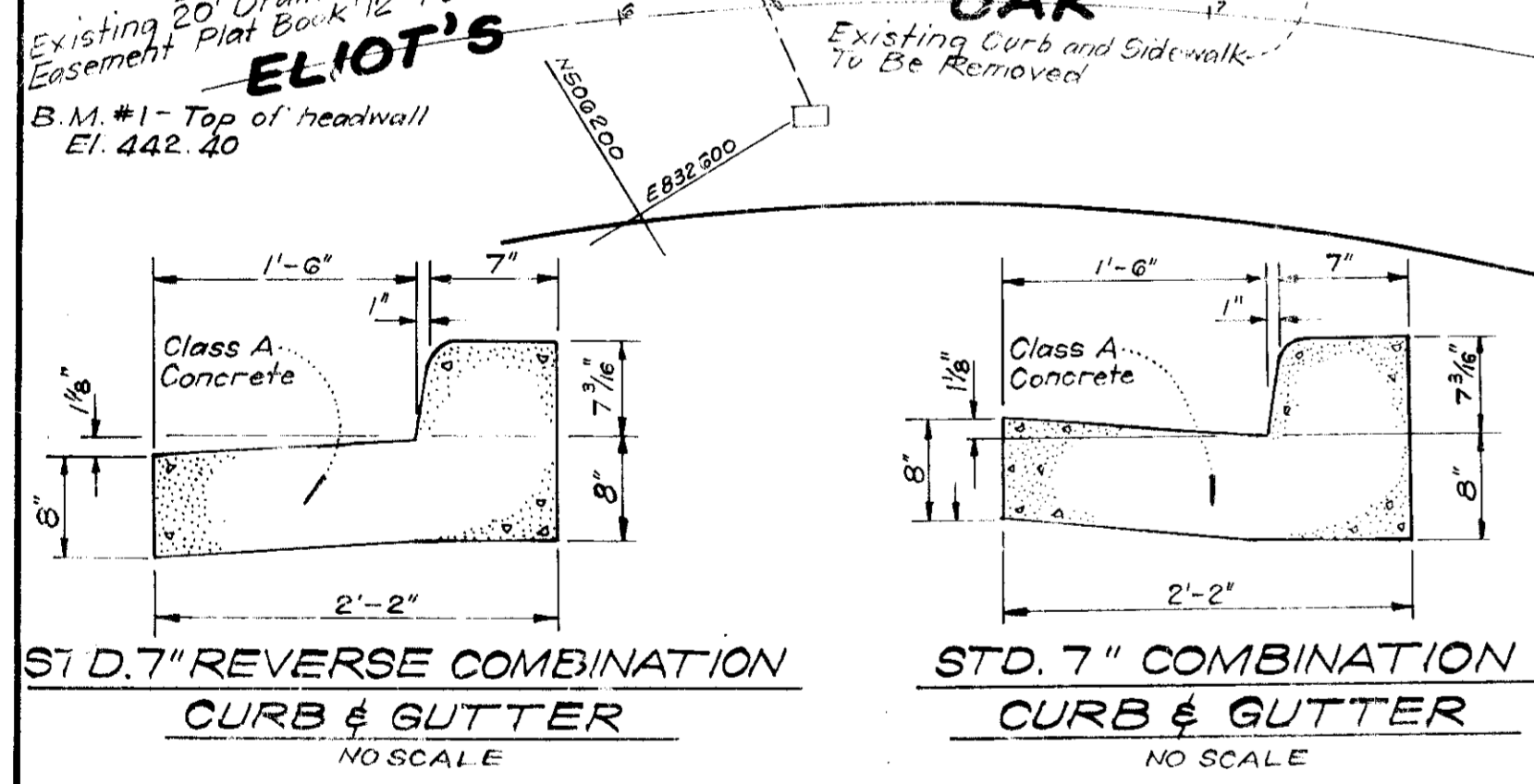
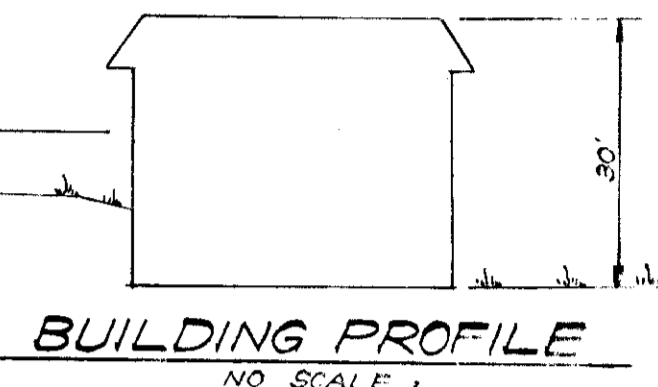
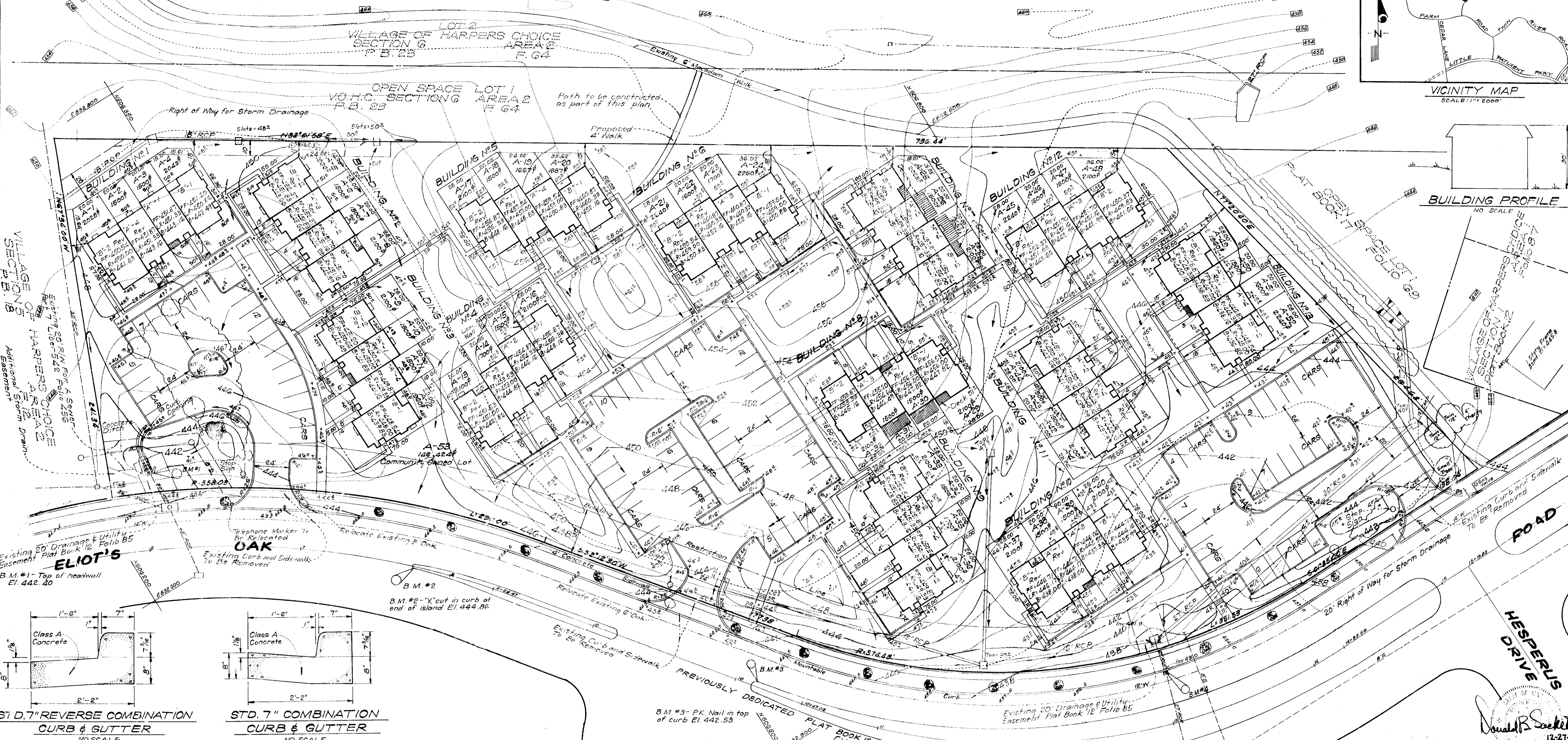
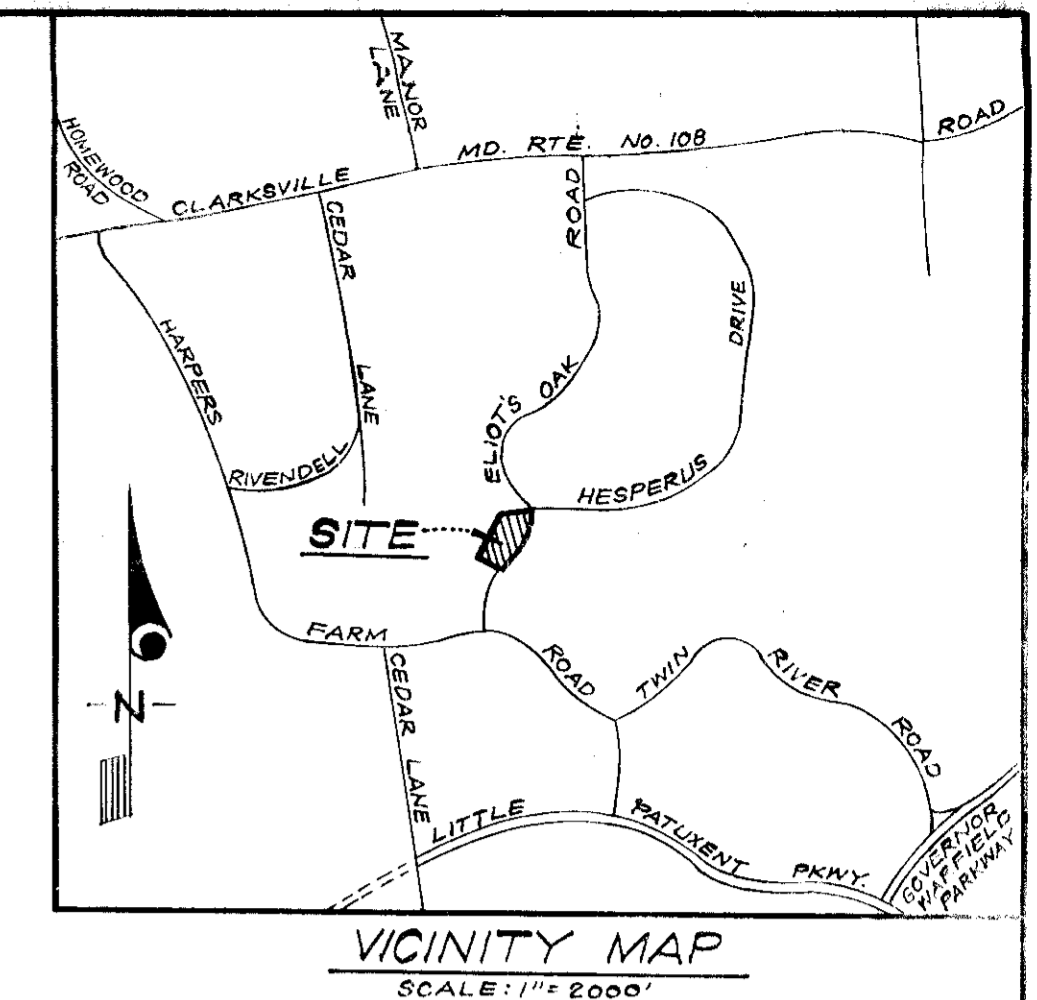


- SITE ANALYSIS**
1. Zone: Apartment (Single Family Attached Land Use)
 2. Area: Residential Lots = 2.170 Acres
Community Owned Lots = 3.361 Acres
Total = 5.531 Acres
 3. Maximum No. Units Permitted: 55
 4. No. of Units Shown: 52
 5. No. of Parking Spaces Required: 104
 6. No. of Parking Spaces Provided: 105
 7. All roads are to be Privately Owned and Maintained
 8. Minimum building setback requirements to be complied with those set forth in Final Development Plan Phase 5G, Recorded in Plat Book 16 Folios 151, 152 and 153.

- GENERAL NOTES**
1. Topography compiled from actual field survey.
 2. Contour interval: 2 Feet.
 3. Direction of Drainage
 4. Existing Contours
 5. Proposed Contours
 6. Proposed Spot Elevations
 7. Timber Retaining Wall
 8. Existing Trees to be removed
 9. Existing Trees to be retained
 10. Installation of all Traffic Control Devices shall be in accordance with the 1971 Edition of the Manual of Uniform Traffic Control Devices.



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT

APPROVED FOR HOWARD COUNTY OFFICE OF PLANNING & ZONING

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

CLARK • FINEFROCK & SACKETT
ENGINEERS • PLANNERS • SURVEYORS

11515 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593 3400

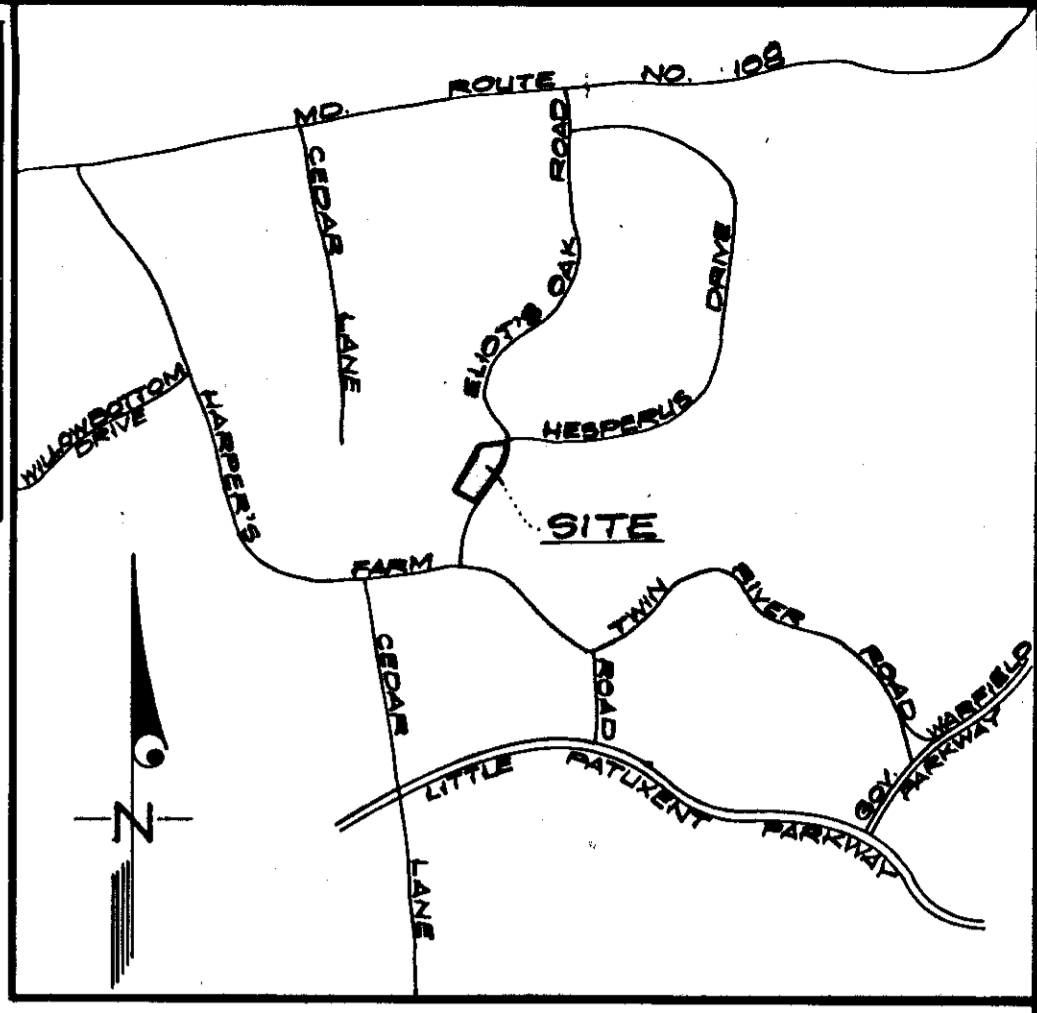
DESIGNED WRMC	DEVELOPMENT PLAN LOTS A-1 THRU A-55 A RESUBDIVISION OF PARCEL "A" COLUMBIA VILLAGE OF HARPER'S CHOICE SECTION 5 AREA 1 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE 1"=30'
DRAWN KWC		DRAWING 10/1
CHECKED WRMC		JOB NO.
DATE Dec. 1978		FILE NO. 1084-X

FOR: BERGER BERMAN BUILDERS, Inc.
610 Executive Blvd. Suite 715
Rockville, Maryland 20852

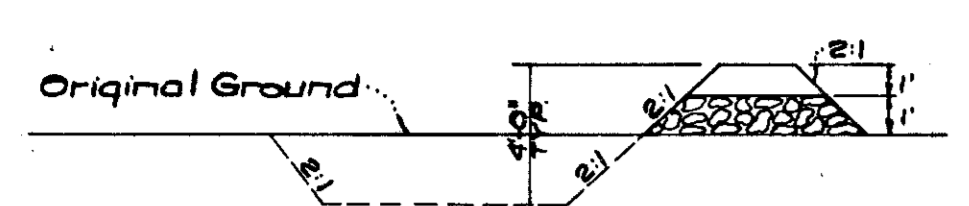
David B. Sackett
12-27-78

SDP 14-630

STORAGE COMPUTATIONS			
Sediment Trap No.	Drainage Disturbed Area in Ac.	Storage Required C.Y.	Storage Available C.Y.
1	.6	40.2	40.2
2	.2	18.4	18.4
3	.5	33.5	33.5
4	1.0	67	67
5	.5	20.1	20.1

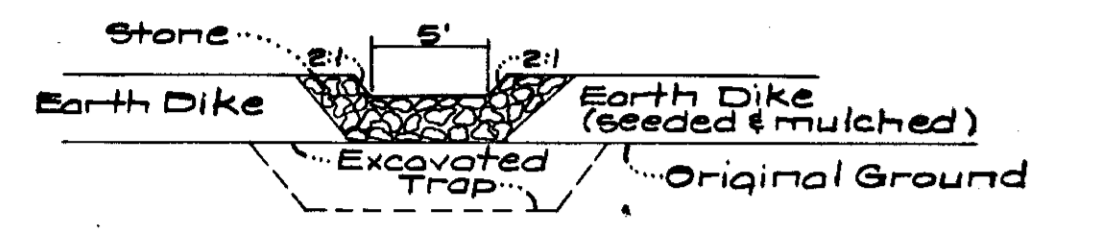


VICINITY MAP
Scale: 1"=2000'



For dimensions & Bottom El. see plan
Surge Stone shall be 4"-6" in diameter

TYPICAL PROFILE



For Dimensions & Bottom El. see plan.

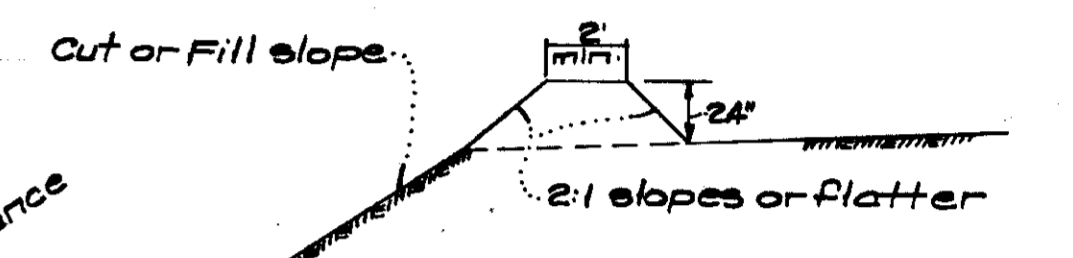
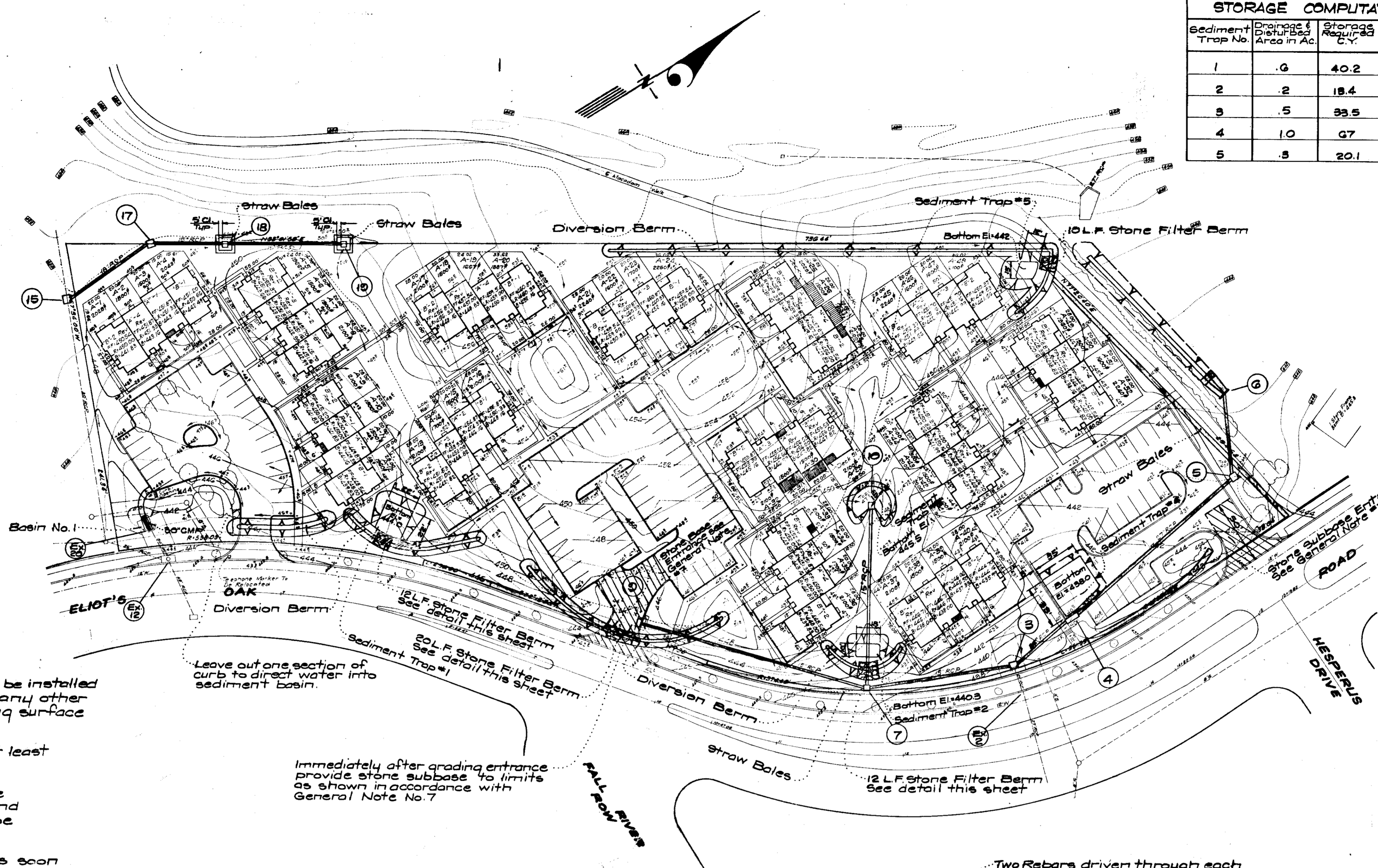
TYPICAL SPILLWAY CROSSSECTION
No Scale

SEDIMENT TRAP NOTES

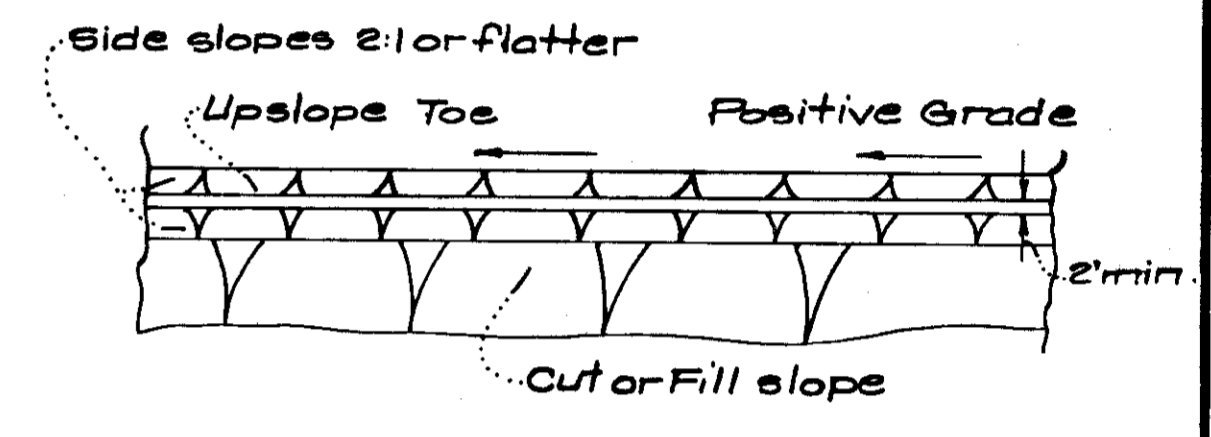
- All Sediment Traps to be cleaned out when sediment reaches a level 25' below top of berm.
- Bottoms of all Sediment Traps to be level and constructed to the dimensions shown in table.
- Spillways to be constructed through Earth Berms adjacent to excavated portion of Sediment Trap.

GENERAL NOTES

- All Sediment and Erosion Control Measures will be installed and stabilized according to this plan prior to any other grading, clearing, or disturbance of the existing surface of the site.
- Notify the Howard Soil Conservation District at least 24 hours before starting any work.
- All Sediment Control Practices to conform to the Standards and Specifications for Soil Erosion and Sediment Control in Urbanizing Areas & shall be adjusted to meet actual field conditions.
- Stabilization of disturbed ground to be done as soon after construction as possible.
- Stone filter berms shall be used where shown on plans. See detail of berm this sheet. These stone berms shall be maintained in good operating condition.
- All graded areas shall be treated in accordance with the following specifications:
 - Seed - certified 85% germination applied at the rate of 3 lbs./1000 sq. ft.; mixture - 40% Kentucky Blue, 20% Chewinq Fescue, 20% Kentucky 31, and 20% Annual Ryegrass.
 - Fertilizer - 5-10-10 applied at the rate of 23 lbs./1000 sq. ft. and ground agricultural lime or dolomitic lime applied at the rate of 40 lbs./1000 sq. ft.
 - Mulch - Weed free grain straw applied at the rate of 70 lbs./1000 sq. ft. Mulch shall be secured to the ground by any approved method, i.e. asphalt tack coat, chemical binder, wood chips, etc.
- Temporary construction entrance shall be constructed of #2 stone not less than 8 inches thick for full width of ingress or egress and not less than 50 feet in length. Entrances shall be maintained in good operating condition.
- Sediment Basin to be removed only after written approval from the Howard Conservation District has been obtained.
- Cleanout of sediment basin to be required when sediment reaches 6" below top of riser.
- Brick shut all inlets. Inlets to be reopened after paving and stabilization is completed.
- Grading & paving in vicinity of sediment basin shall be done immediately after removal of sediment basin.
- Storm Drain Structures 3, 4, 5, 6, 7, 10, 15, 17, 18 & 19 and connecting pipes shall be constructed as part of this sediment control plan and prior to total site grading.



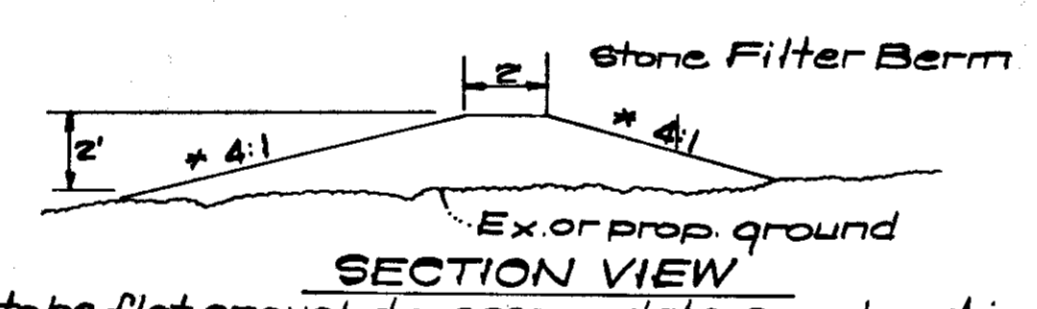
CROSS SECTION



PLAN VIEW
DIVERSION BERM
No Scale

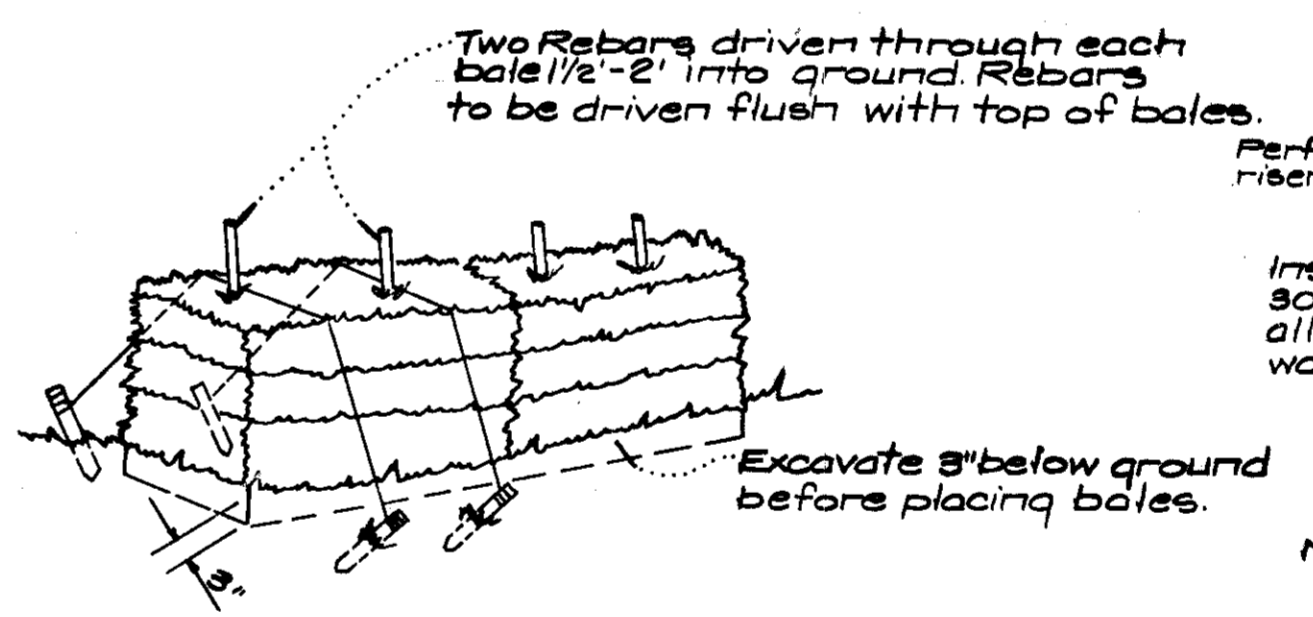
Leave out one section of curb to direct water into sediment basin.

Immediately after grading entrance provide stone subbase to limits as shown in accordance with General Note No. 7

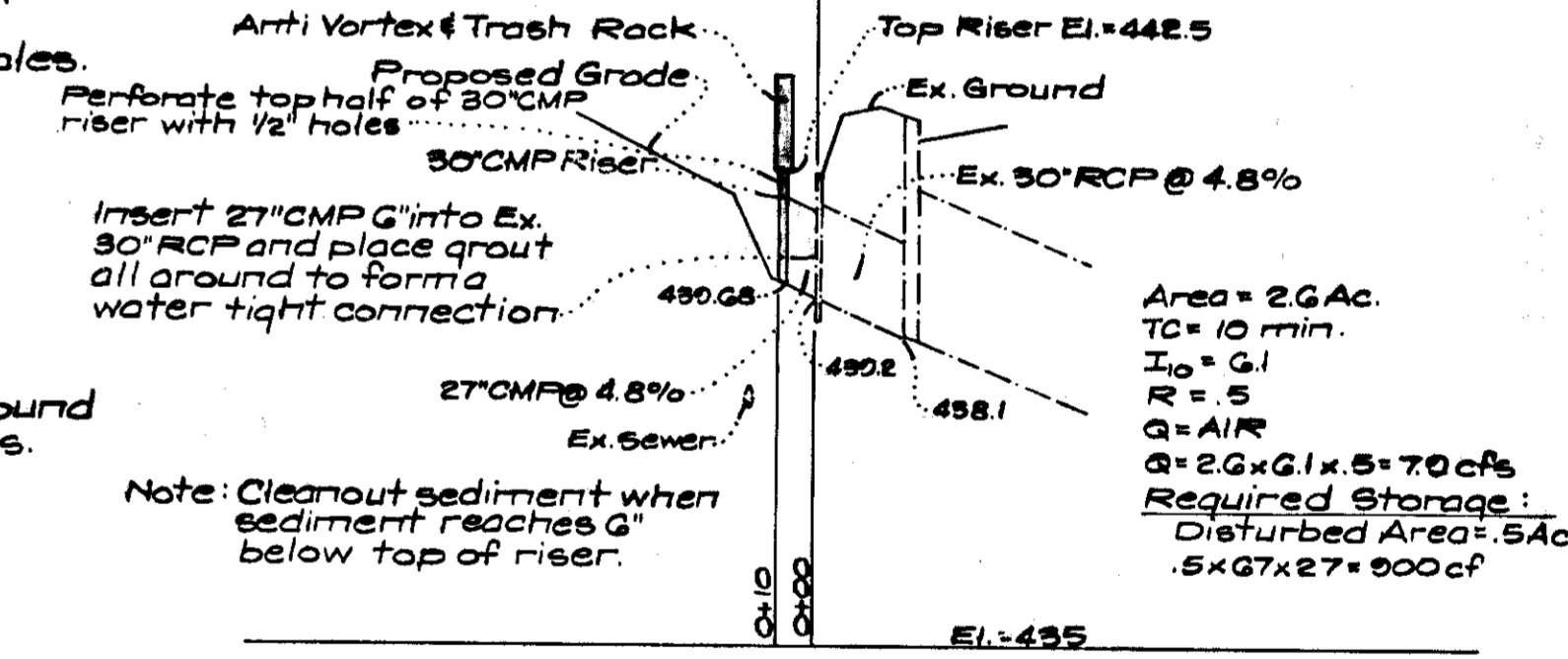


SECTION VIEW
STONE FILTER BERM DETAIL
No Scale

All bales shall be tied with non-weathering material i.e. wire, nylon, twine, etc.



TYPICAL STRAW BALE DETAIL
No Scale



PROFILE
SEDIMENT BASIN
Scale: Horiz. 1"=50'
Vert. 1"=5'

Reviewed for... Howard... S.C.D.
Name
and meet Technical Requirements
James M. Nelson 3-13-74
Signature Date
U.S. Soil Conservation Service

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

APPROVED *Robert W. Ziehm* DATE 3-13-74

DEVELOPER'S CERTIFICATE

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 and deemed necessary. Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.

2-4-74 Date *Robert W. Ziehm* Signature

ENGINEER'S CERTIFICATE

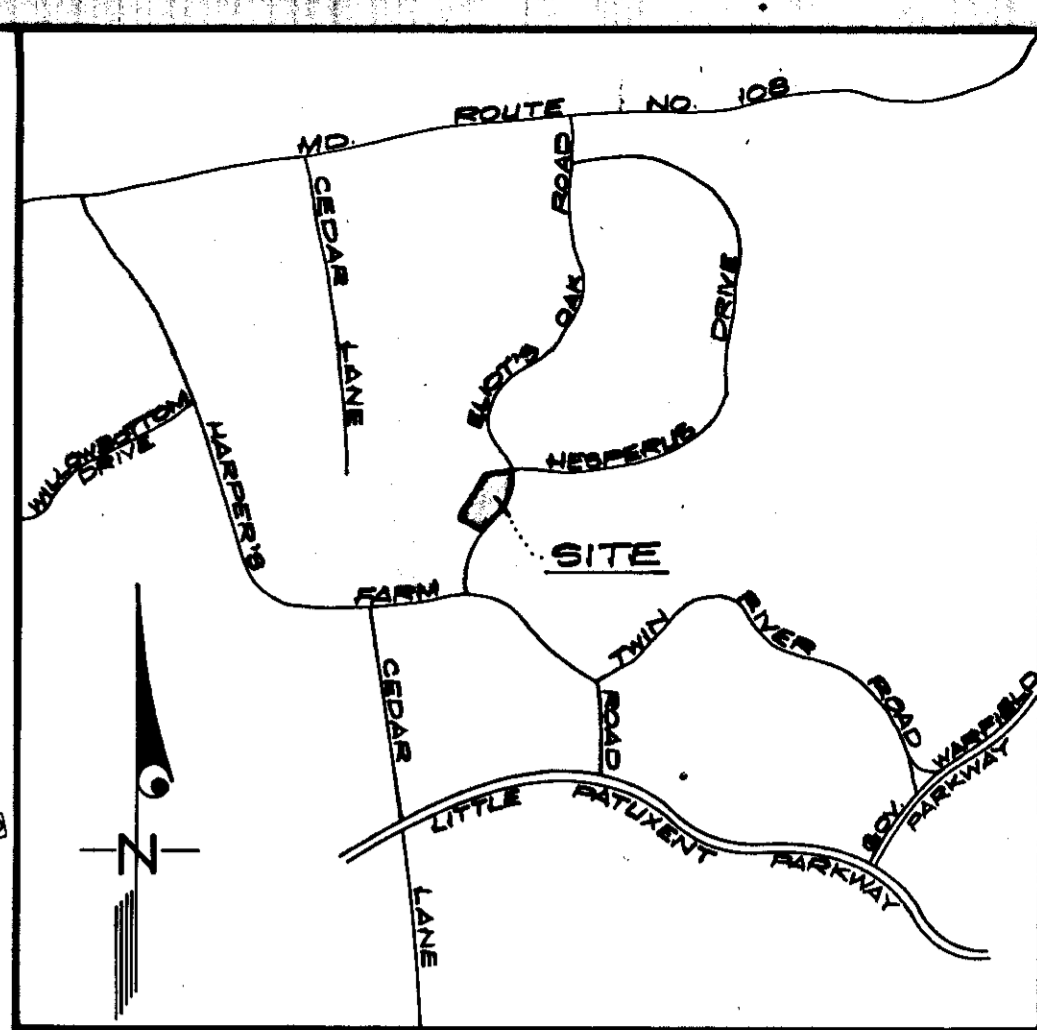
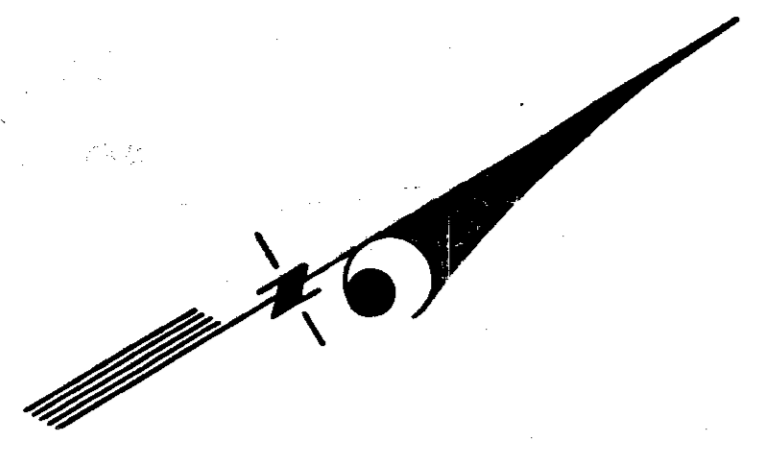
I hereby certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

12-27-73 Date *G. Nelson Clark* Signature

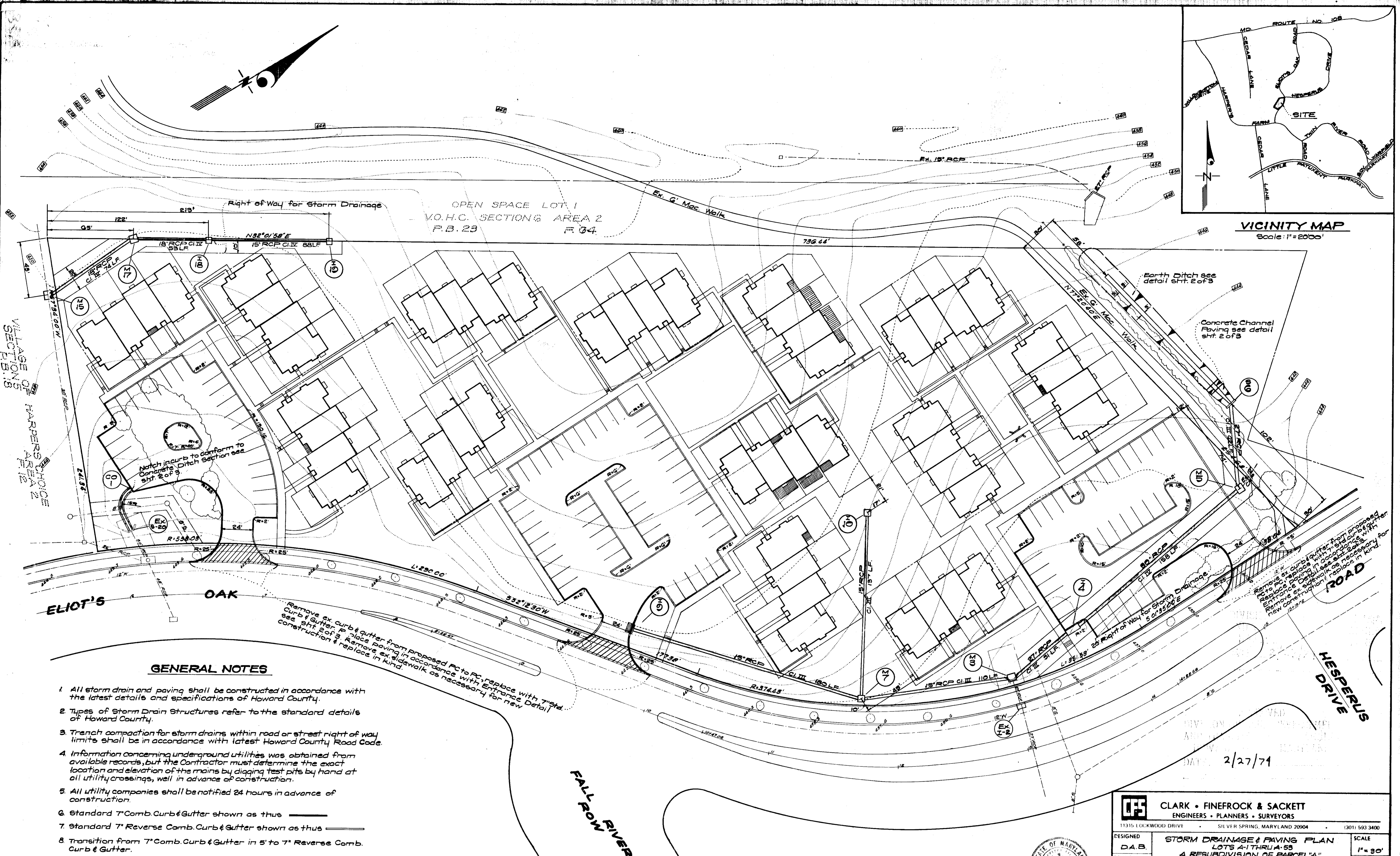


G. Nelson Clark
12-27-73

CLARK FINEROCK & SACKETT ENGINEERS PLANNERS SURVEYORS		
11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400		
DESIGNED D.A.B.	SEDIMENT & EROSION CONTROL PLAN LOTS A-I THRU A-53 A RESUBDIVISION OF PARCEL "A" COLUMBIA	SCALE As Shown DRAWING 1 of 1
DRAWN SUZAN	VILLAGE OF HARPERS CHOICE SECTION 5 AREA 1 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO. 72-558
CHECKED G.N.C.	FOR: BERGER BERMAN BUILDERS, INC. 610 Executive Blvd., Suite 740 Rockville, Maryland 20852	FILE NO. 1121-6E
DATE Dec, 1973		



VICINITY MAP
Scale: 1" = 2000'



GENERAL NOTES

1. All storm drain and paving shall be constructed in accordance with the latest details and specifications of Howard County.
2. Types of Storm Drain Structures refer to the standard details of Howard County.
3. Trench compaction for storm drains within road or street right of way limits shall be in accordance with latest Howard County Road Code.
4. Information concerning underground utilities was obtained from available records, but the Contractor must determine the exact location and elevation of the mains by digging test pits by hand at all utility crossings, well in advance of construction.
5. All utility companies shall be notified 24 hours in advance of construction.
6. Standard 7" Comb. Curb & Gutter shown as thus
7. Standard 7" Reverse Comb. Curb & Gutter shown as thus
8. Transition from 7" Comb. Curb & Gutter in 5' to 7" Reverse Comb. Curb & Gutter.

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE,
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

W. J. ... 3/27/74
DIRECTOR DATE

B. J. ... 3/19/74
CHIEF BUREAU OF HIGHWAYS DATE



CLARK • FINEPROCK & SACKETT
ENGINEERS • PLANNERS • SURVEYORS

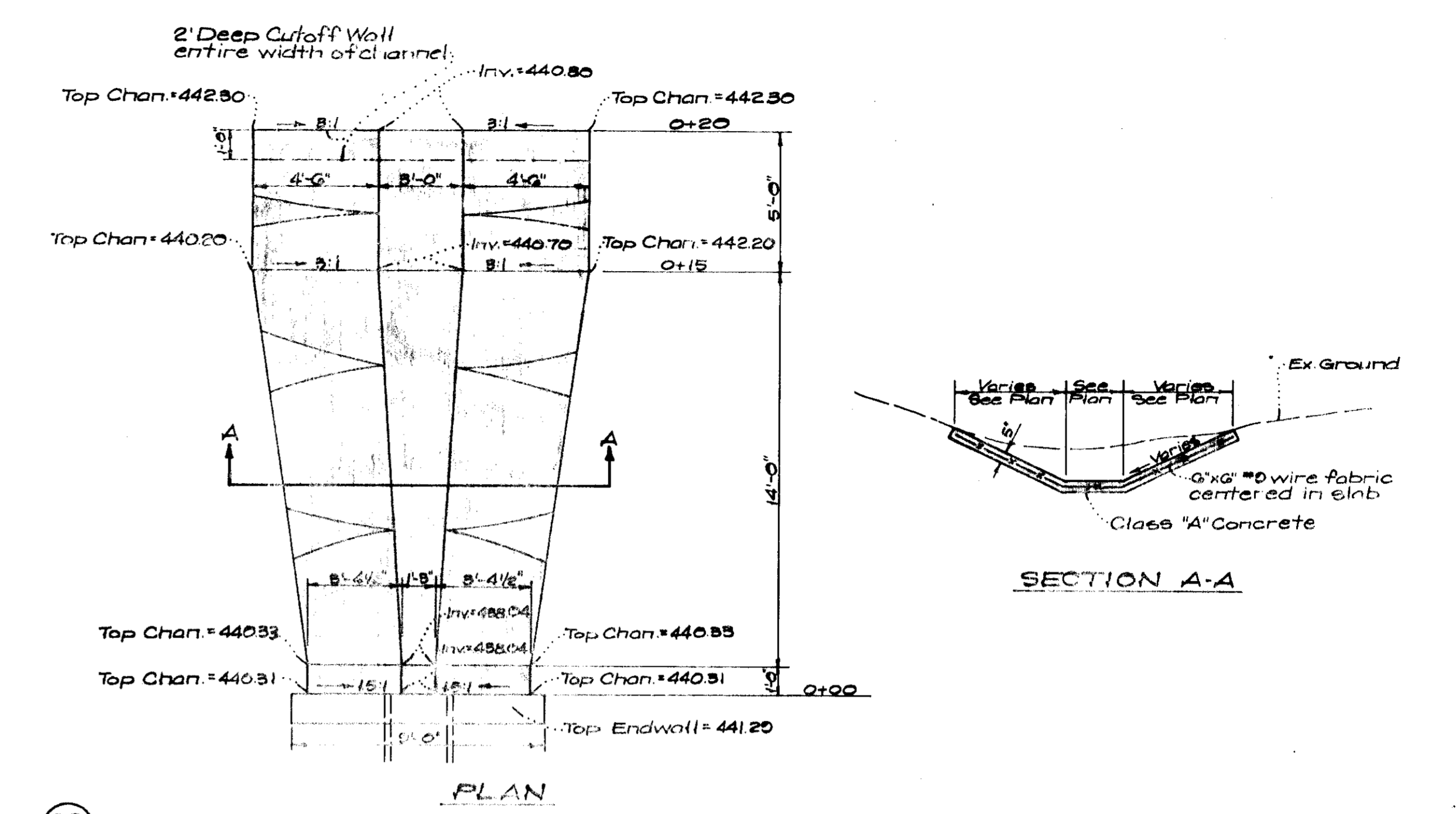
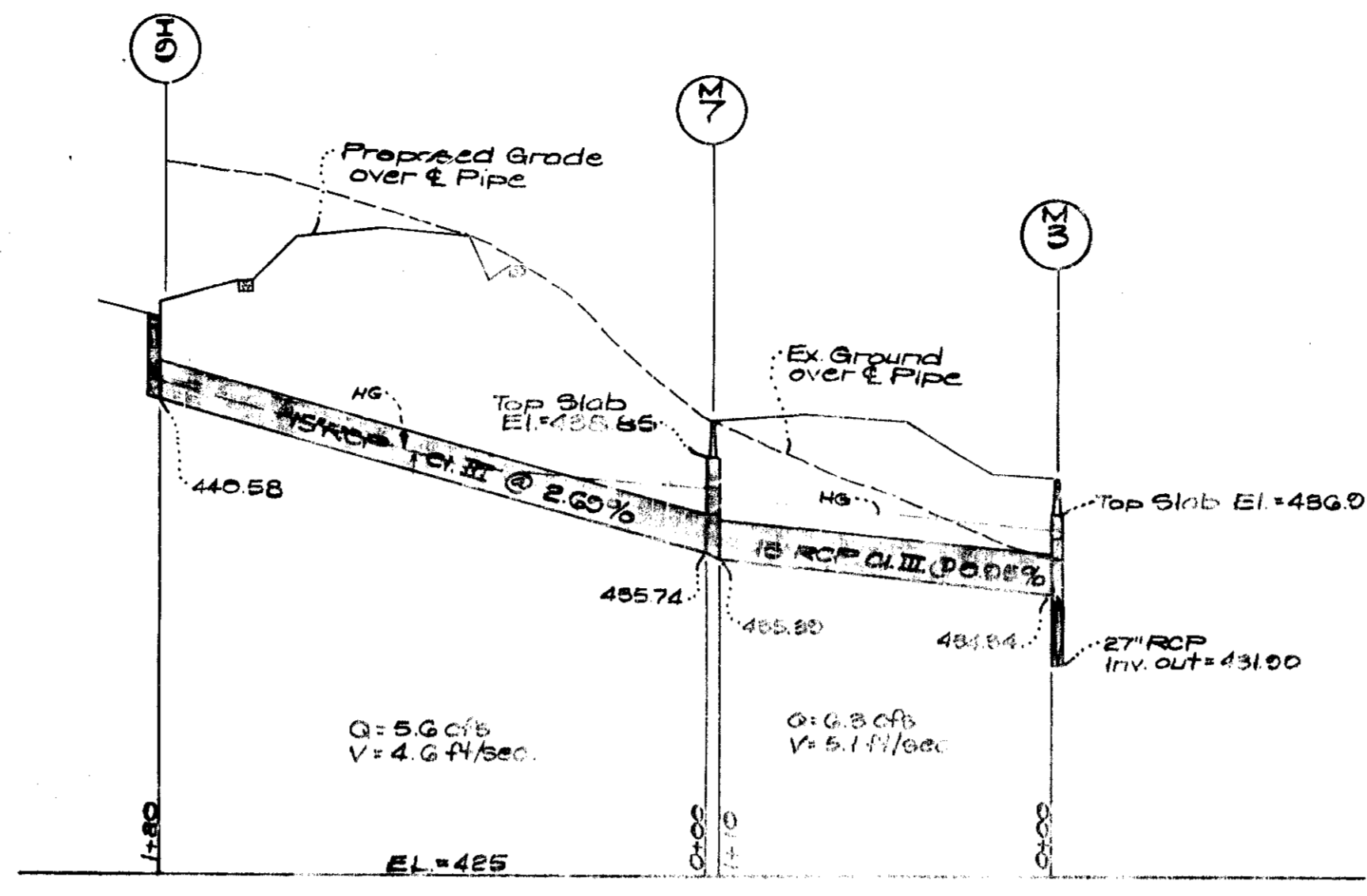
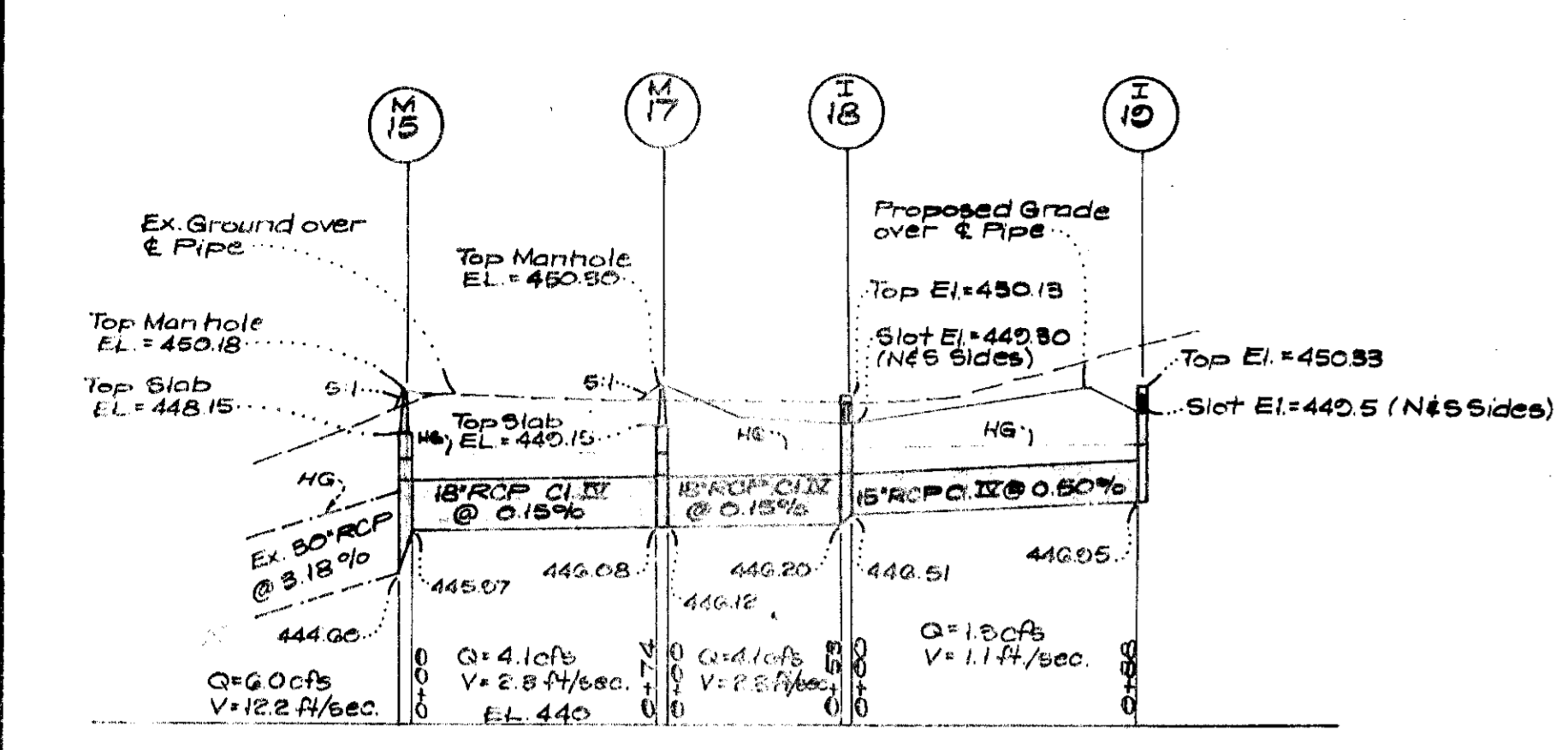
11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593 3400

DESIGNED D.A.B.	STORM DRAINAGE & PAVING PLAN LOTS A-1 THRU A-55 A RESUBDIVISION OF PARCEL "A" COLUMBIA VILLAGE OF HARPERS CHOICE SECTION 5 AREA 1 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE 1" = 30' DRAWING 1 OF 3
DRAWN SUZAN		JOB NO. 72-558
CHECKED G.N.C.	DATE Dec, 1973	FILE NO. 1114-D

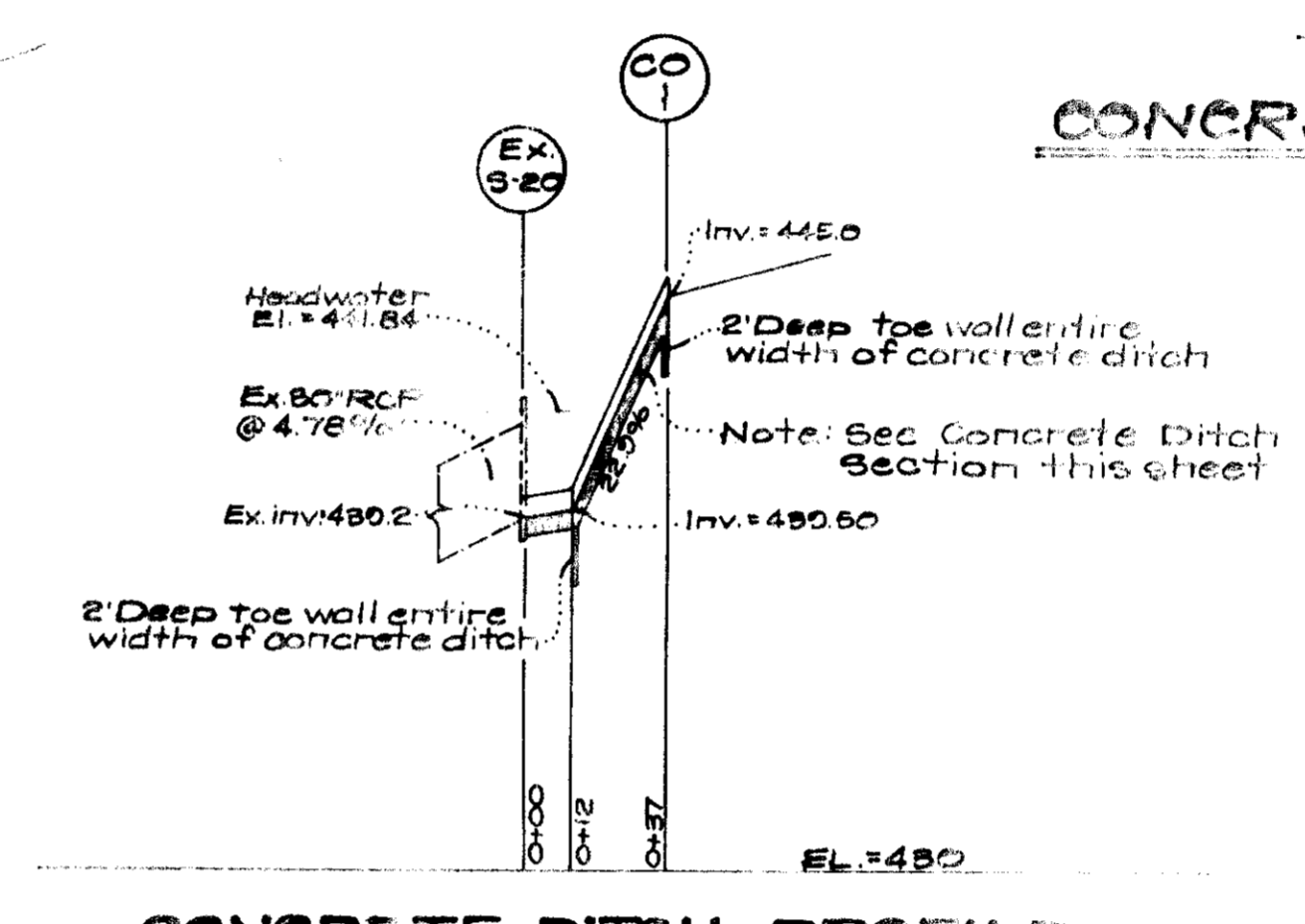
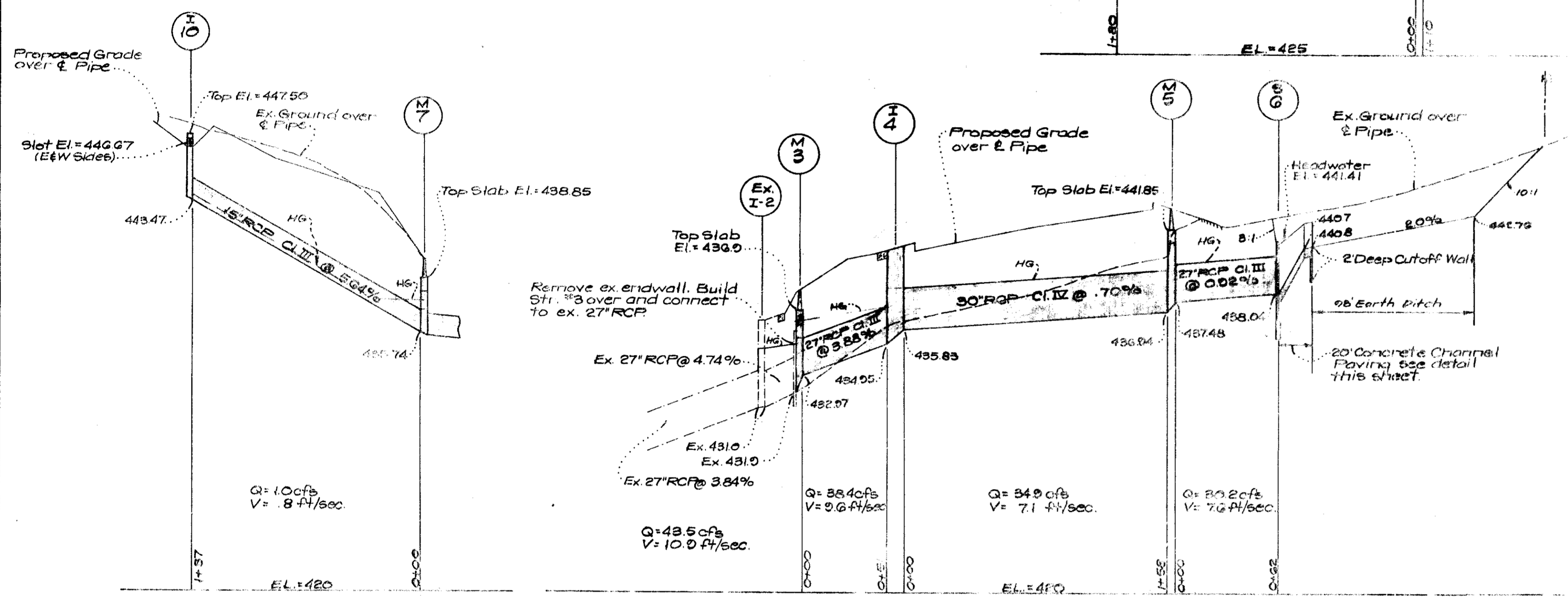
FOR: BERGER BERMAN BUILDERS, Inc.
410 Executive Blvd. Suite 740
Rockville, Maryland 20852

DATE 2/27/74

SDP-174-63-C



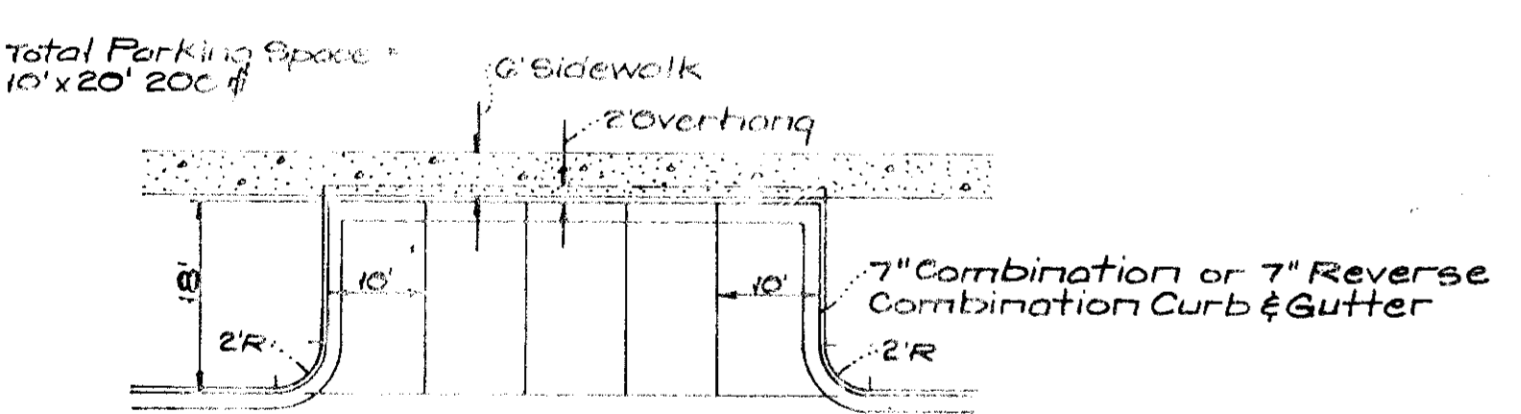
CONCRETE CHANNEL DETAIL AT STRUCTURE NO. S-G
Scale: 1"=4'



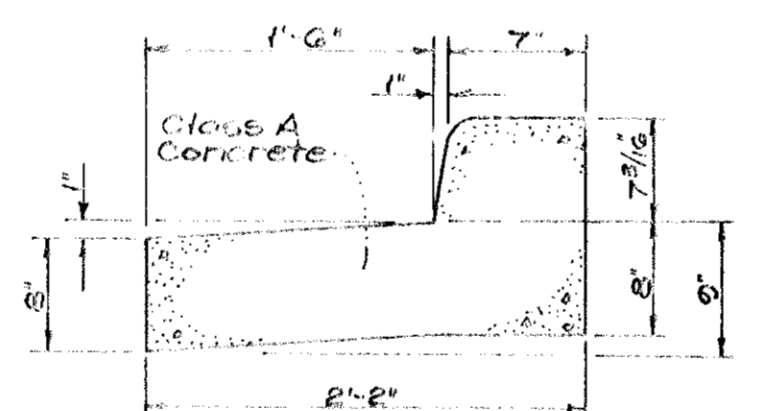
CONCRETE DITCH PROFILE
AT EXISTING STR. NO. S-20

STRUCTURE SCHEDULE						
NO.	TYPE	TOP ELEV.		REMARKS	INJ.	OUT.
		UPPER	LOWER			
M-5	B-Manhole/shallow	488.10	488.10	Howard Co. Sid. Mod. 60" Sq. 600/0	488.10	488.10
I-4	B-2 Inlet	440.75	440.60	" " " " W. 8'-6" 600/0	485.88	484.25
M-5	B-Manhole/shallow	445.10	445.10	" " " " Mod. 60" Sq. 600/0	487.48	484.04
S-G	B-Headwall	445.00	445.00	" " " " Dia. 27" 600/0	488.04	488.04
M-7	B-Manhole/shallow	444.2	444.2	" " " " 48" Sq. 600/0	440.58	440.58
I-9	B-Manhole/shallow	444.2	443.45	" " " " 48" Sq. 600/0	440.58	440.58
I-10	D-Inlet	447.50	447.50	" " " " W. 2'-6" 600/0	445.47	444.47
M-15	B-Manhole/shallow	440.30	440.30	" " " " 48" Sq. 600/0	445.07	441.60
M-17	B-Manhole/shallow	450.30	450.30	" " " " 48" Sq. 600/0	446.12	444.08
M-18	D-Inlet	450.13	450.13	" " " " W. 2'-6" 600/0	446.51	444.20
M-19	D-Inlet	450.58	450.58	" " " " W. 2'-6" 600/0	446.25	444.25

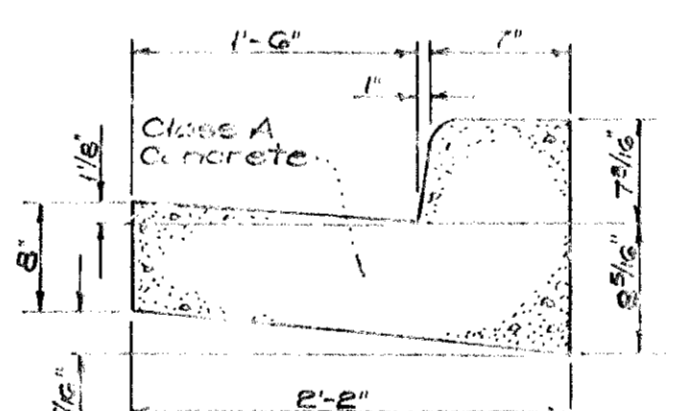
PROFILES
Scale: Horiz. 1"=50'
Vert. 1"=5'



TYPICAL 90° PARKING
No Scale

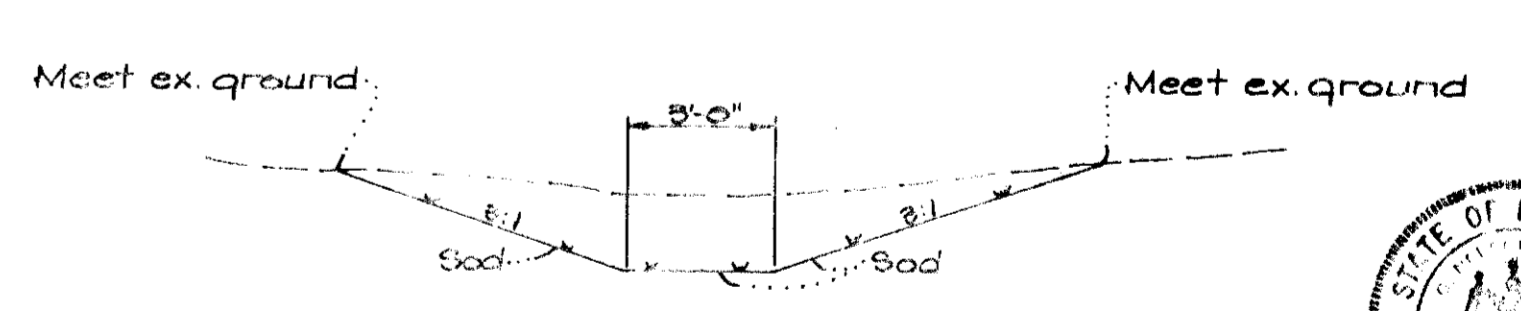


STD. 7" REVERSE COMBINATION CURB & GUTTER
No Scale

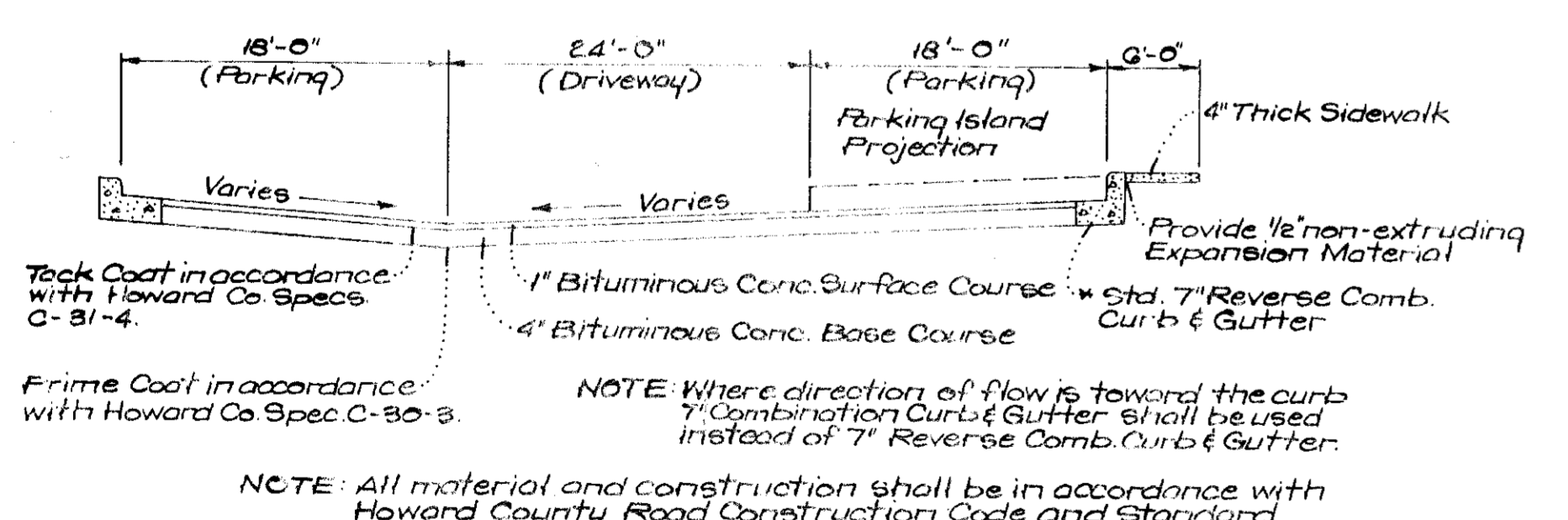
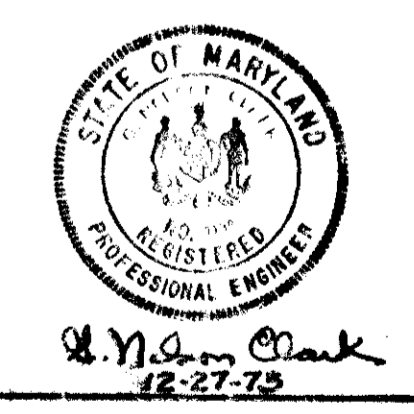


STD. 7" COMBINATION CURB & GUTTER
No Scale

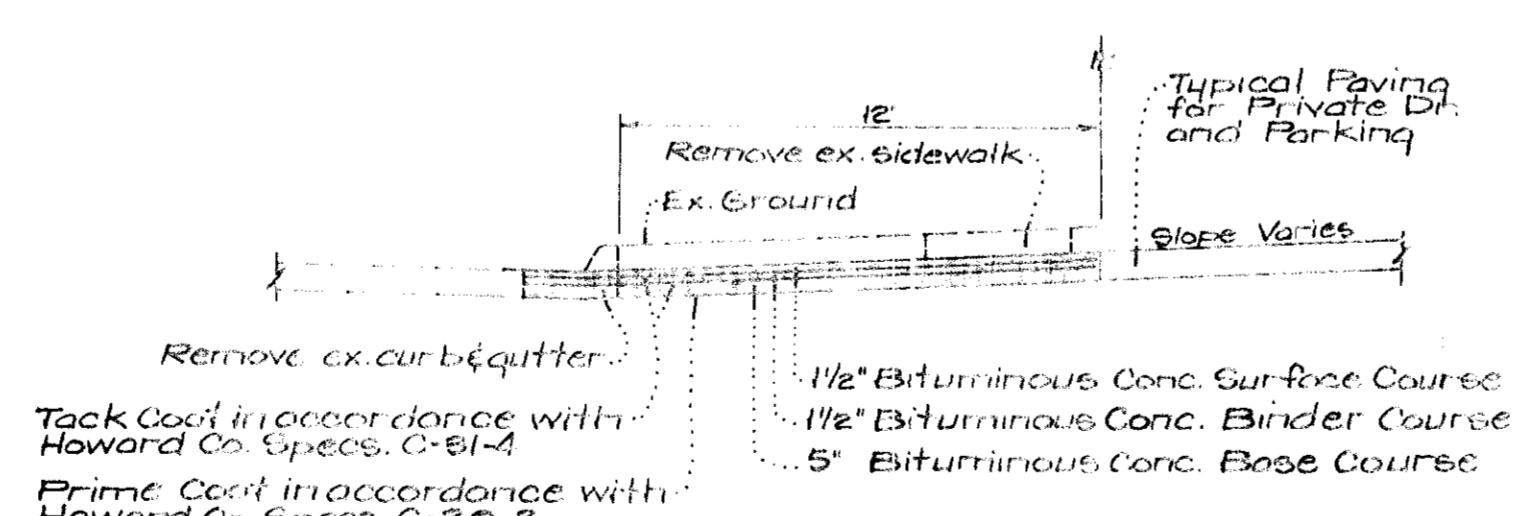
PIPE SCHEDULE		
SIZE	TYPE	LENGTH
18"	RCP CI III	127 LE
18"	RCP CI IV	88 LE
18"	RCP CI IV	127 LE
27"	RCP CI III	118 LE
30"	RCP CI IV	158 LE



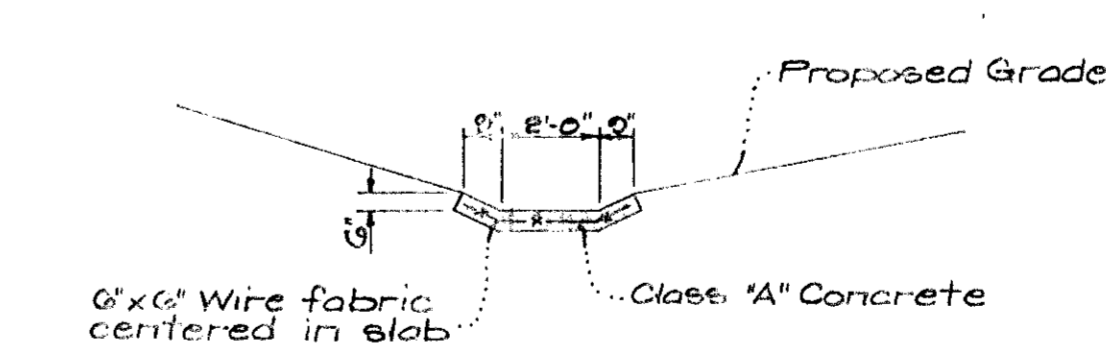
SODDED DITCH DETAIL
Scale: 1"=4'



TYPICAL PAVING SECTION
PRIVATE DRIVE & PARKING
No Scale



TYPICAL ENTRANCE SECTION
No Scale



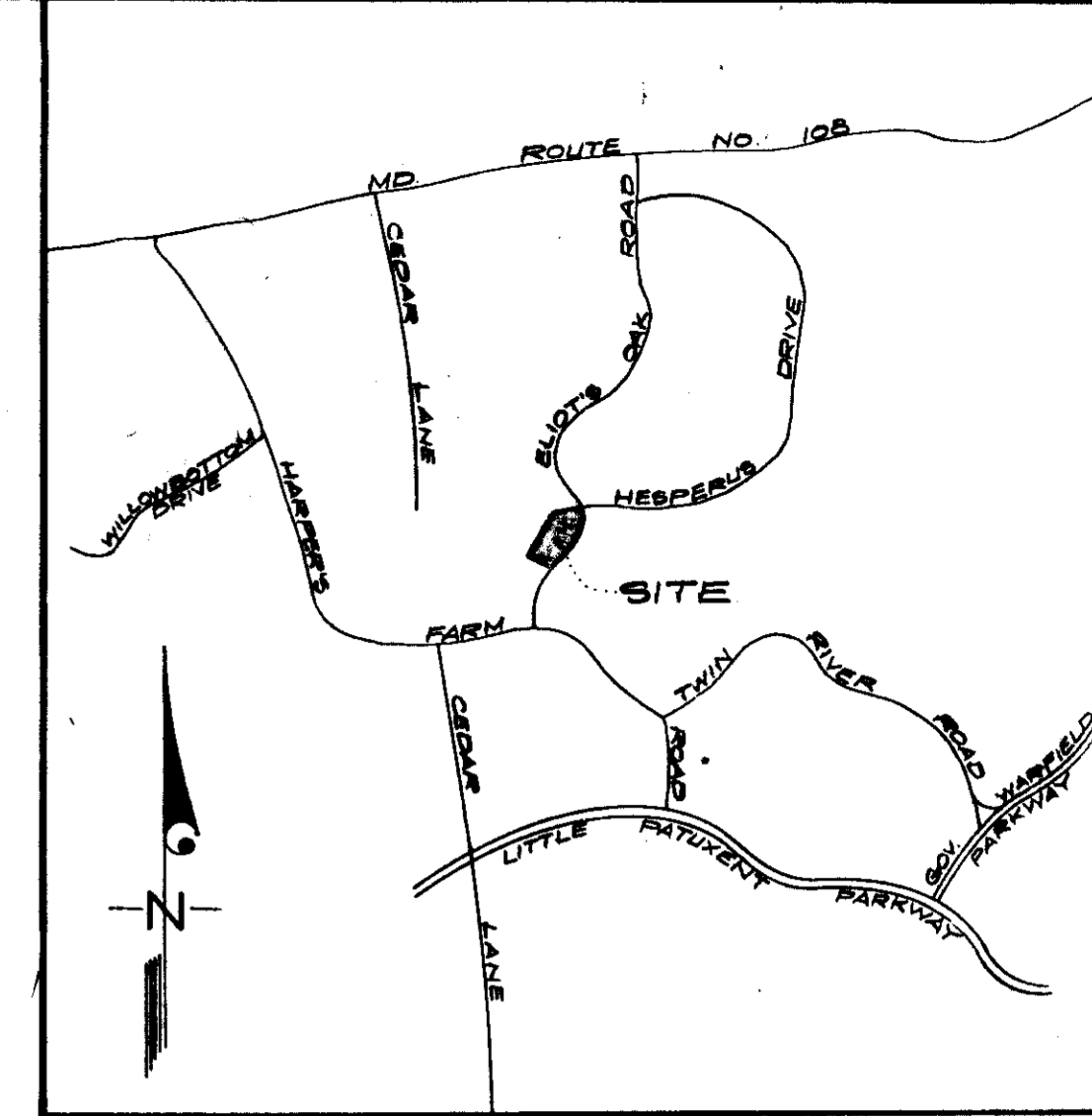
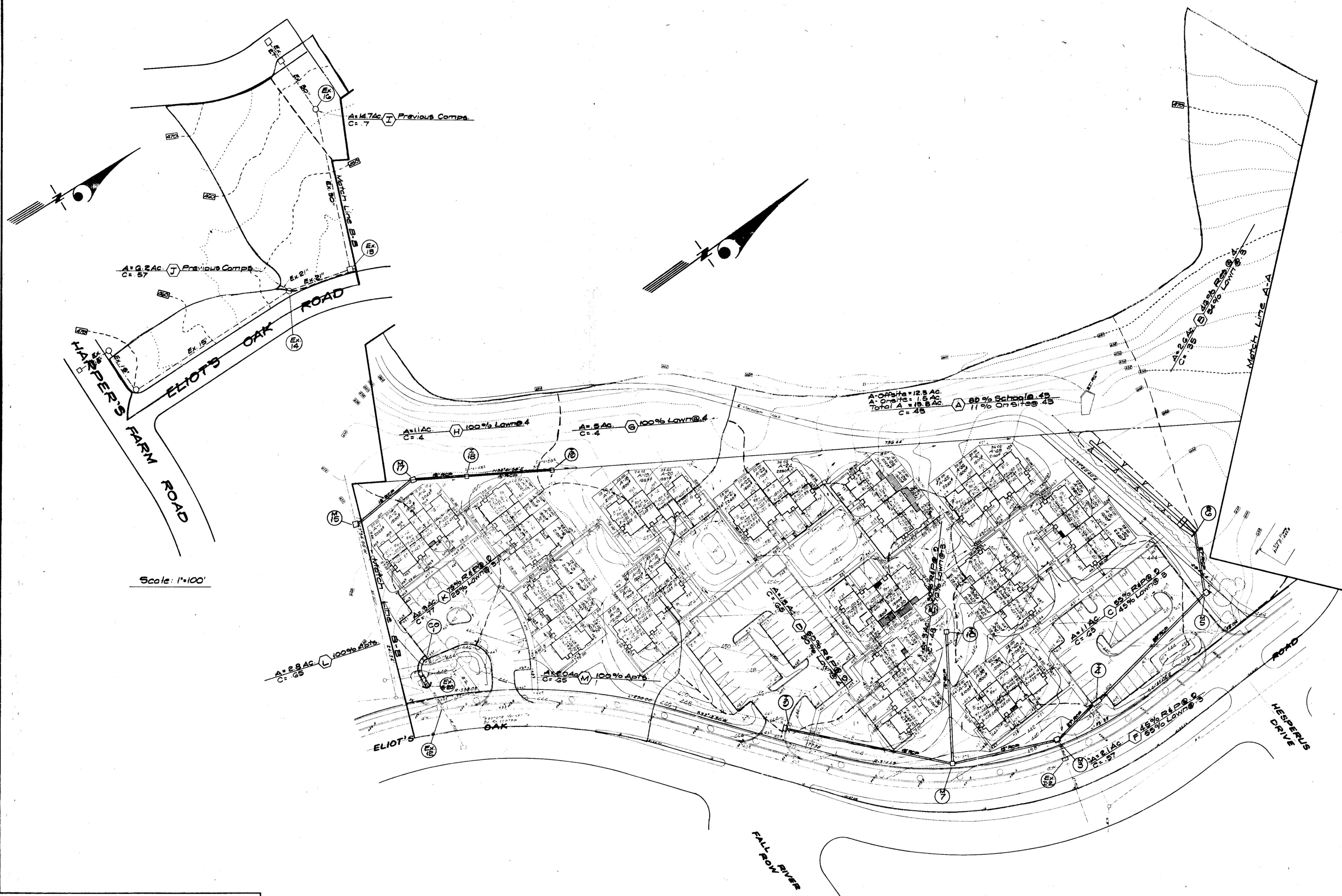
CONCRETE DITCH SECTION
AT EXISTING STR. NO. S-20
Scale: 1"=4'

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ENGINEERS • PLANNERS • SURVEYORS

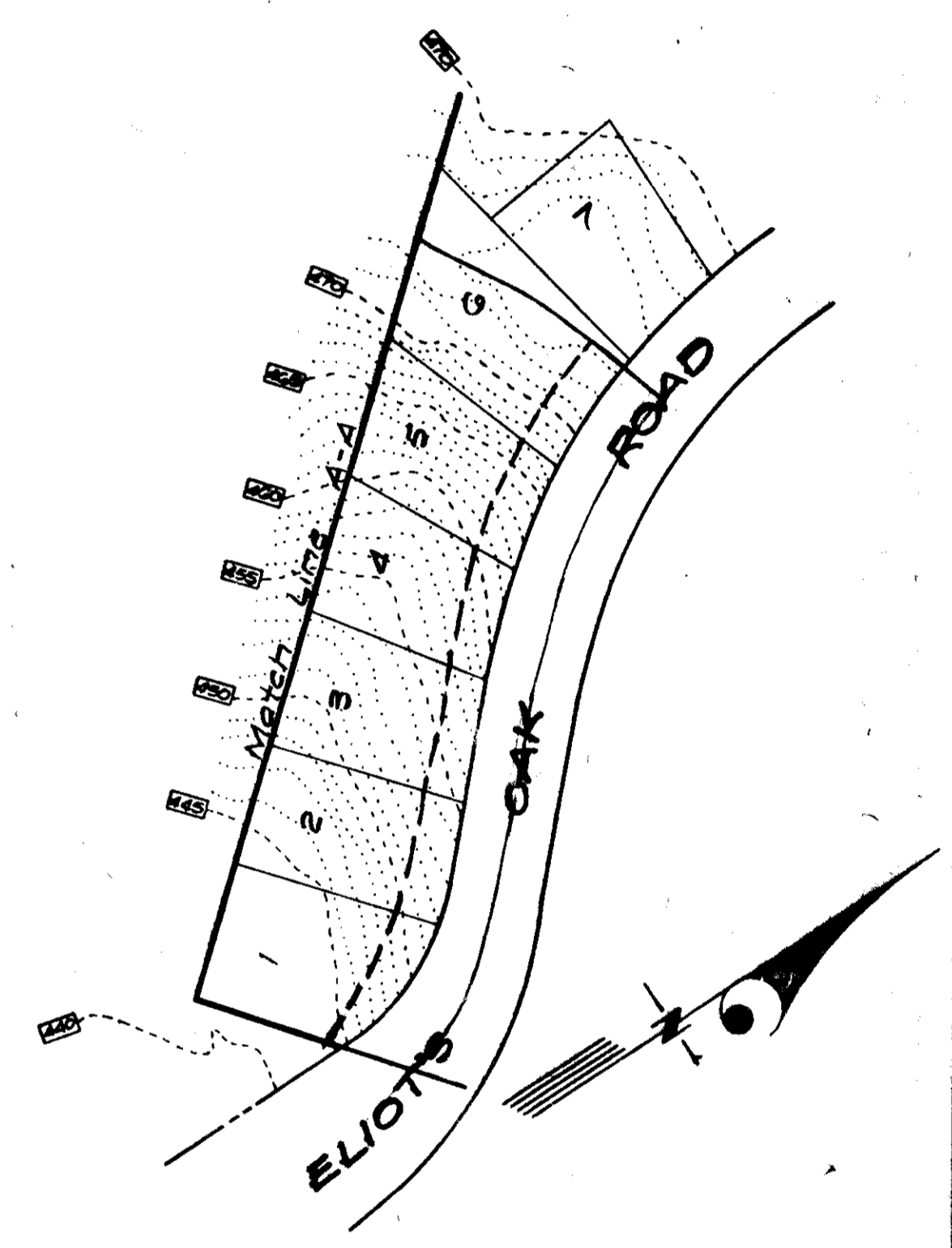
1131 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20910 (301) 583-3400

DESIGNED BY: D.A.B. STORM DRAINAGE & PAVING PLAN
CHECKED BY: SURETY AREA 15
G.N.C. A RESUBDIVISION OF HARCOLLA
DATE: Dec. 1975 FOR: BERGER BERMAN BUILDERS, Inc. 740
FROCKVILLE, MARYLAND 20852

SCALE: AS SHOWN
DRAWING NO: 2075
JOB NO: 78-508
SHEET NO: 111-D



VICINITY MAP
Scale: 1"=2000'



Scale: 1"=100'

Scale: 1"=100'

Scale: 1"=50'

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.

COUNTY HEALTH OFFICER _____ DATE _____

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

PLANNING DIRECTOR _____ DATE _____

CHIEF DIVISION OF LAND DEVELOPMENT & TRANSPORTATION PLANNING _____ DATE _____

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR _____ DATE _____

CHIEF BUREAU OF HIGHWAYS _____ DATE _____

APPROVED

DATE 2/27/74



CFB CLARK · FINEFROCK & SACKETT
ENGINEERS · PLANNERS · SURVEYORS
11315 LOCKWOOD DRIVE · SILVER SPRING, MARYLAND 20904 · (301) 593-3400

DESIGNED D.A.B.	COLUMBIA VILLAGE OF HARPER'S CHOICE SECTION 5 AREA 1 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: BERGER BERMAN BUILDERS, Inc. 610 Executive Blvd. Suite 710 Rockville, Maryland 20852	SCALE As Shown
DRAWN SUZON		DRAINAGE AREA MAP LOTS A-1 THRU A-53 A RESUBDIVISION OF PARCEL "A"
CHECKED G.N.C.		JOB NO. 72-558
DATE Dec 1973		FILE NO. 1114-D