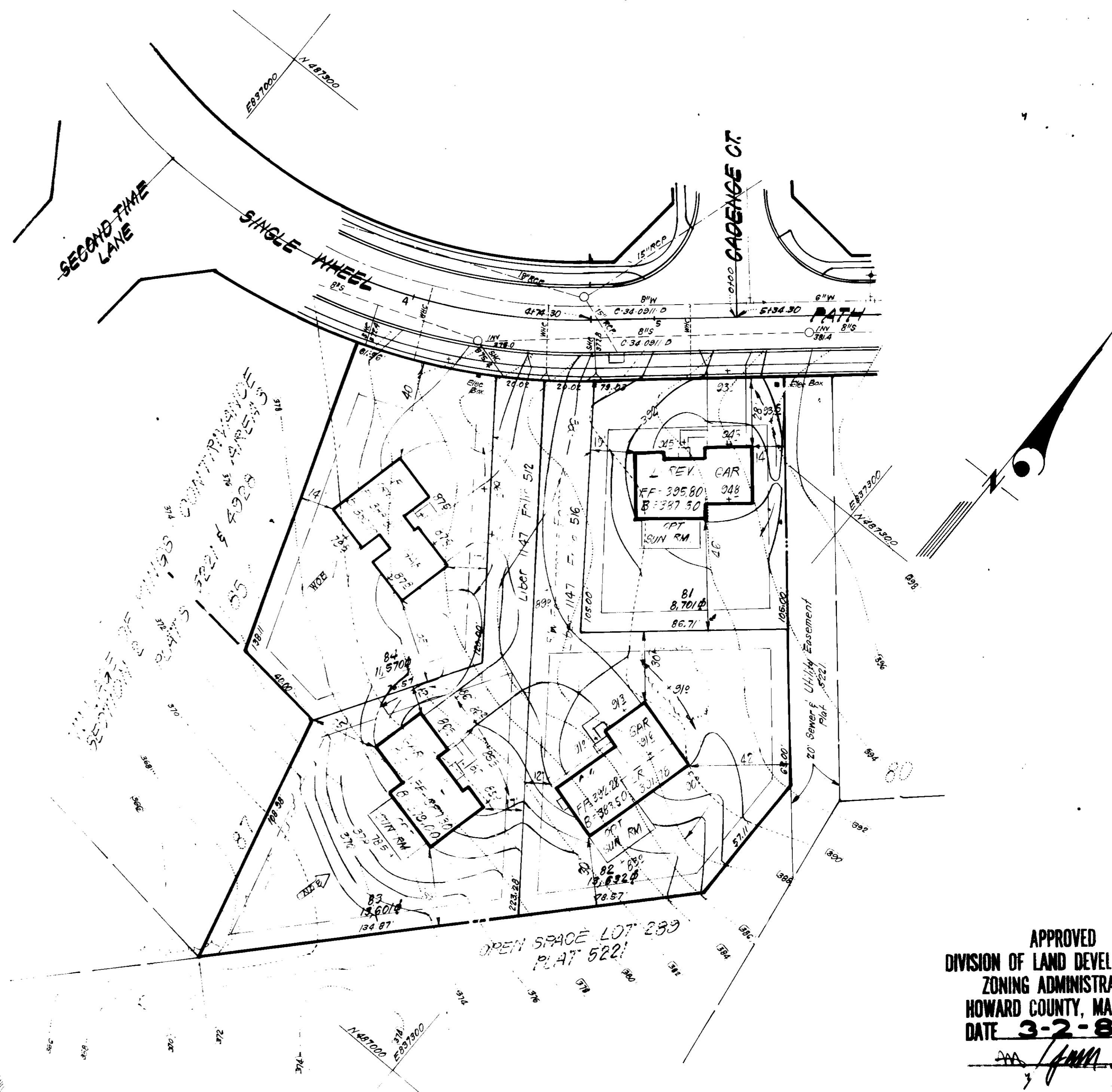
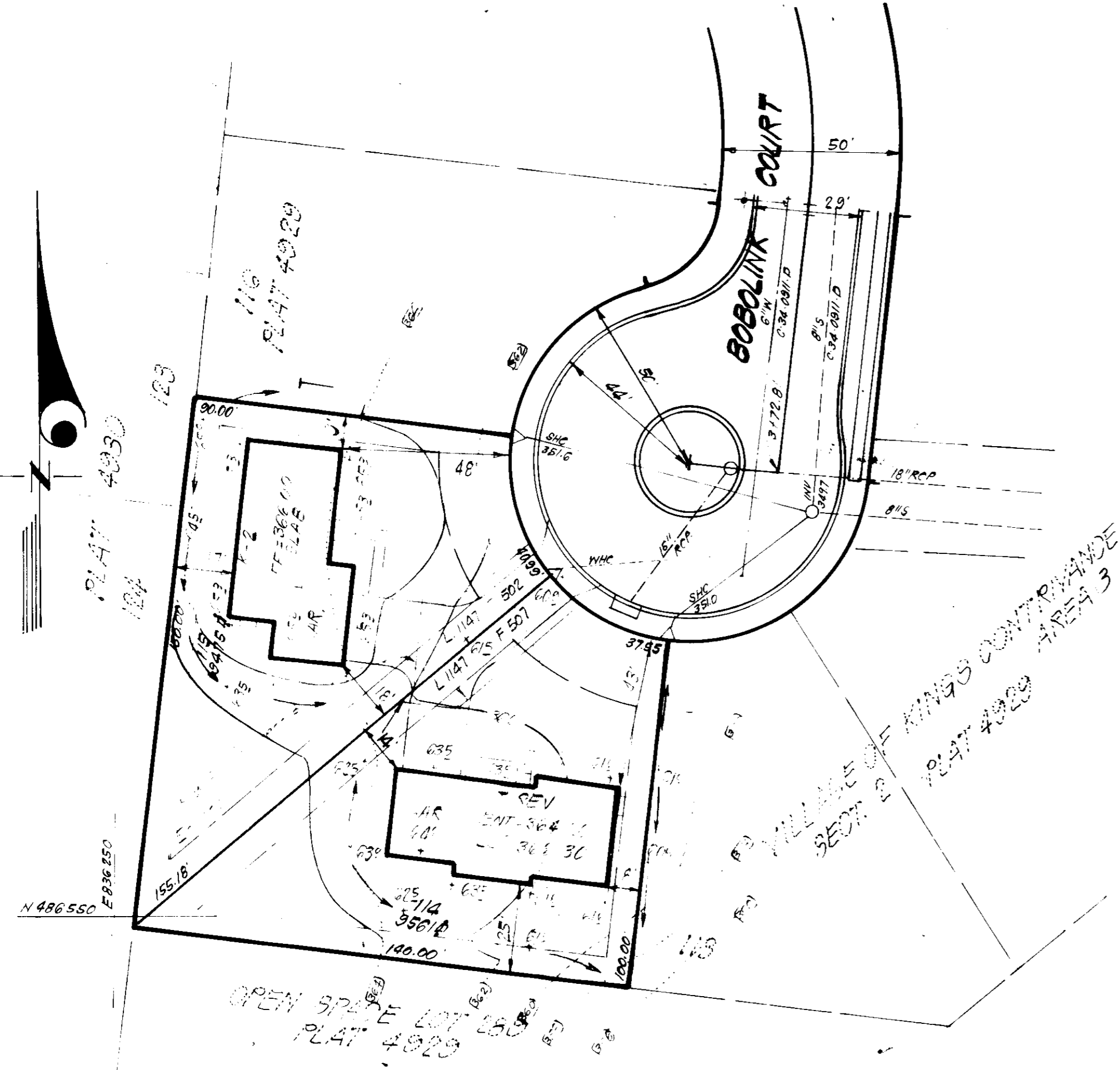
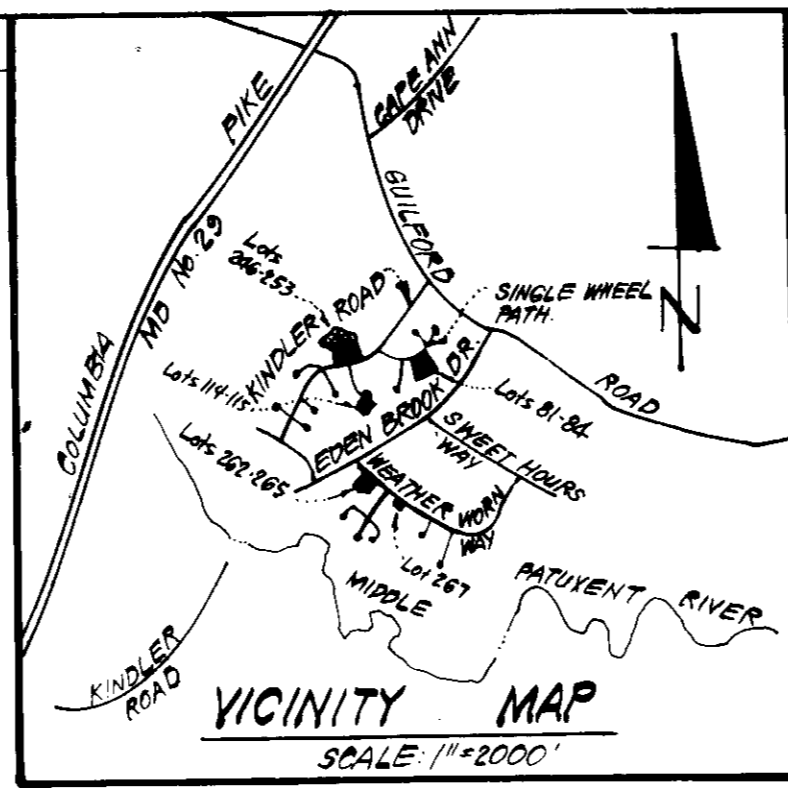
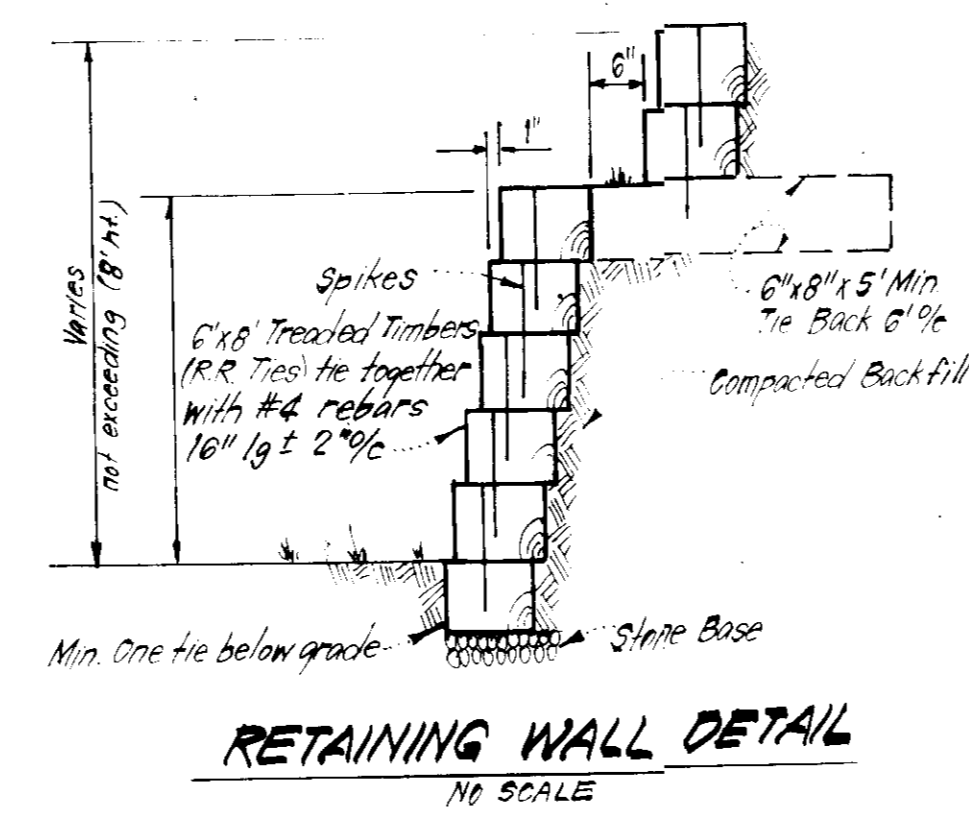
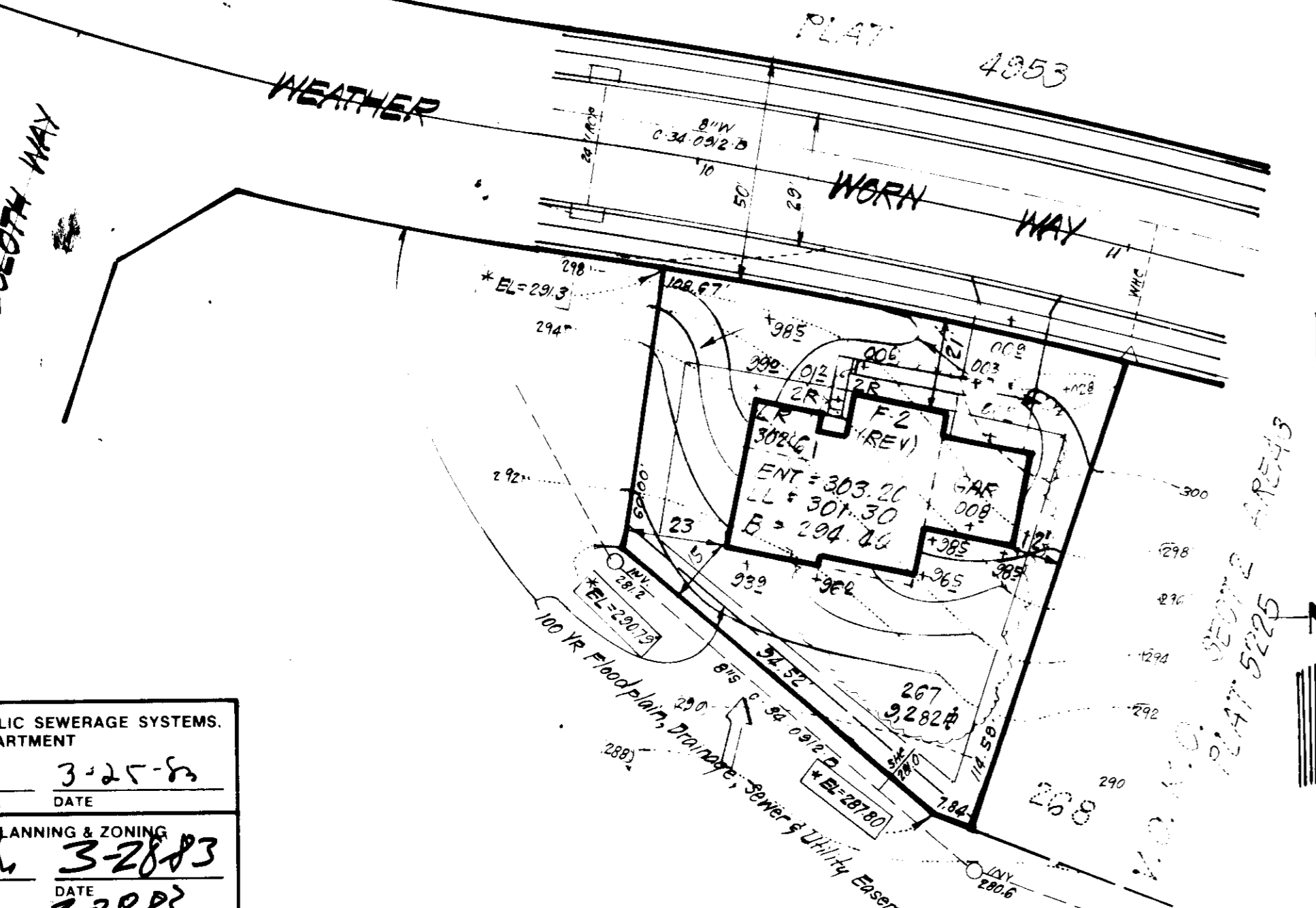


NO. REVISION  
1. See on Lot 84 as per H.R.D. Comments

DATE  
2-17-83



APPROVED  
DIVISION OF LAND DEVELOPMENT &  
ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE 3-2-83



GENERAL NOTES:

1. The Land included in this plan is zoned Newtown (SFMD).
2. The Lots shown on this plan are covered by Final Development Plan Phase 178, Part II.
3. All coordinates shown hereon are based on Howard County Geodetic Control Traverse which is based upon the Maryland State Plane Coordinate System.
4. The area covered is located on Tax Map # 42.
5. The total area included in this plan is 4.627 Acres.
6. All roadways are public & existing.
7. Any damage to county owned rights of way or paving shall be corrected at the developer's expense.
8. Total Number of Lots: 19

LEGEND:

1. Contour Interval 2.0'
2. Existing Contour - - - - - 3.10'
3. Proposed Contour - - - - - 3.10'
4. Spot Elevation +105'
5. Direction of Drainage - - - - -
6. Existing Trees to be retained (circle with cross)
7. Retaining Wall (dashed line)

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.  
HOWARD COUNTY HEALTH DEPARTMENT  
COUNTY HEALTH OFFICER: [Signature] DATE: 3-25-83

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
PLANNING DIRECTOR: [Signature] DATE: 3-28-83

APPROVED: DIVISION OF LAND DEVELOPMENT & ZONING ADMIN.  
CHIEF: [Signature] DATE: 3-28-83

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE.  
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
DIRECTOR: [Signature] DATE: 3-22-83

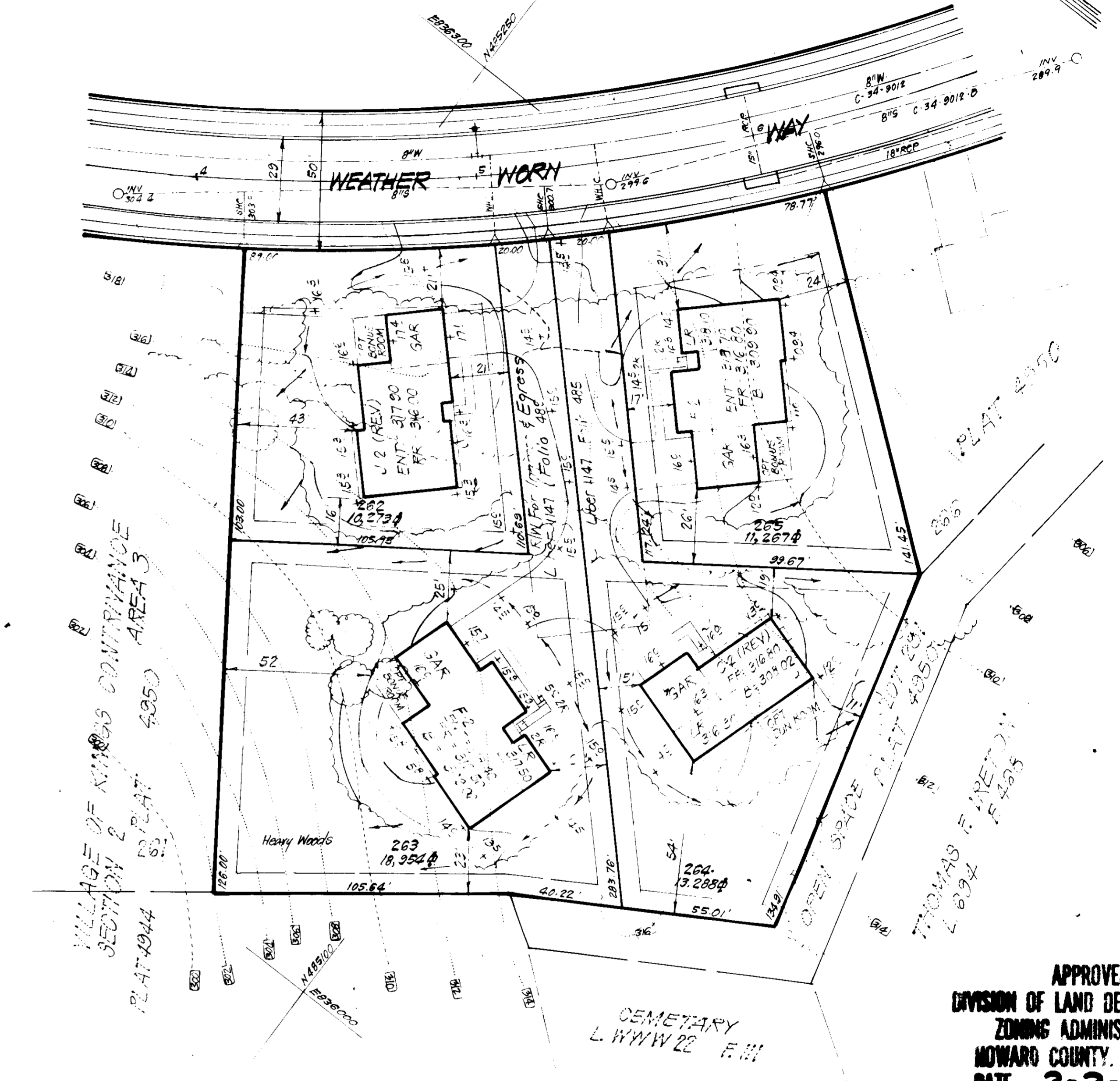
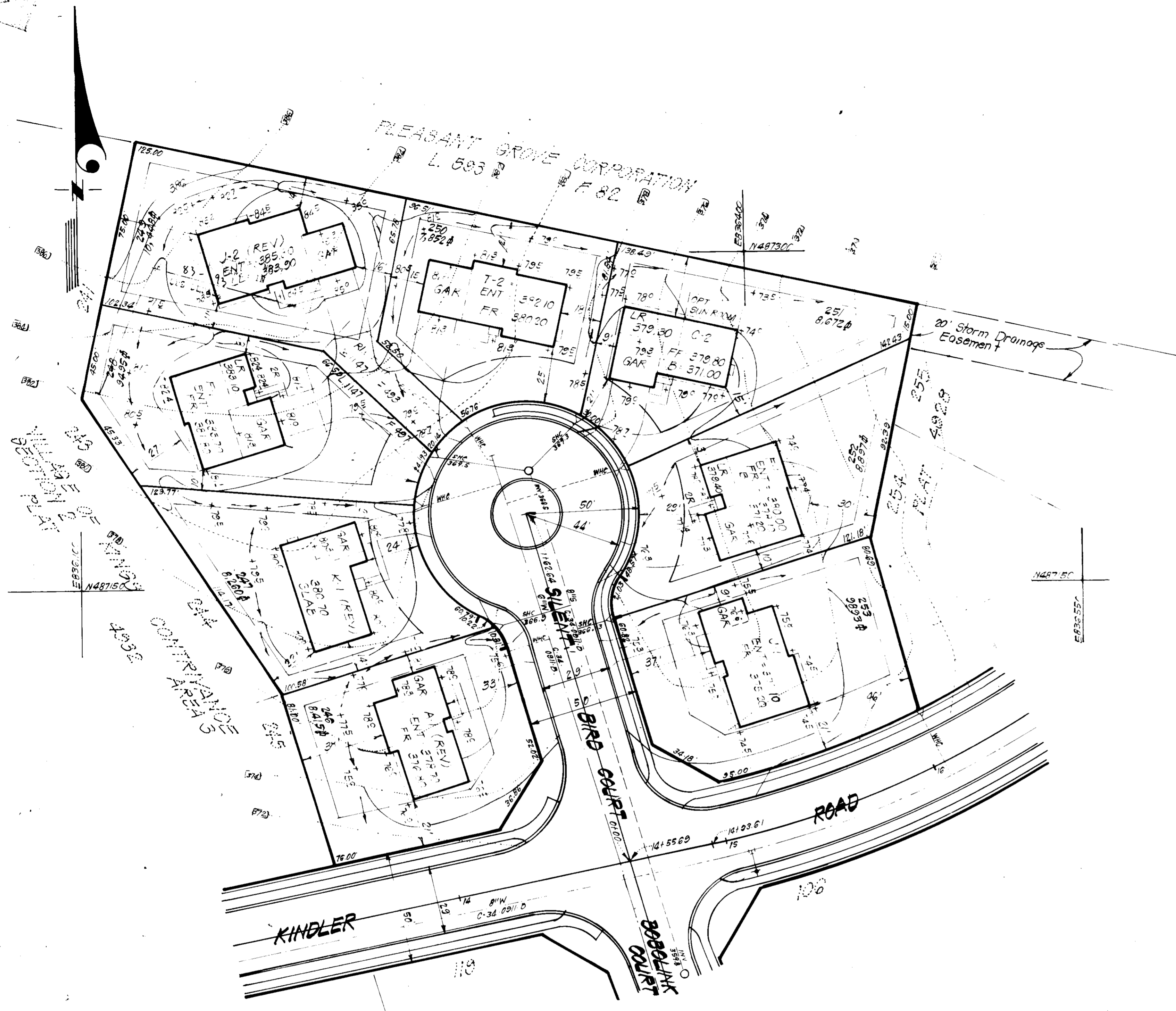
CHIEF BUREAU OF ENGINEERING: [Signature] DATE: 3-22-83

PLAT REF: 4020, 4050, 5221 & 5225

<b>CLARK • FINEROCK &amp; SACKETT</b> ENGINEERS • PLANNERS • SURVEYORS 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400		
DESIGNED	J.M.E.	SCALE 1"=30'
DRAWN	J.M.E.	DRAWING 1 OF 5
CHECKED	J.M.E.	JOB NO. 82-029
DATE	1-31-83	FILE NO. 82-029-X

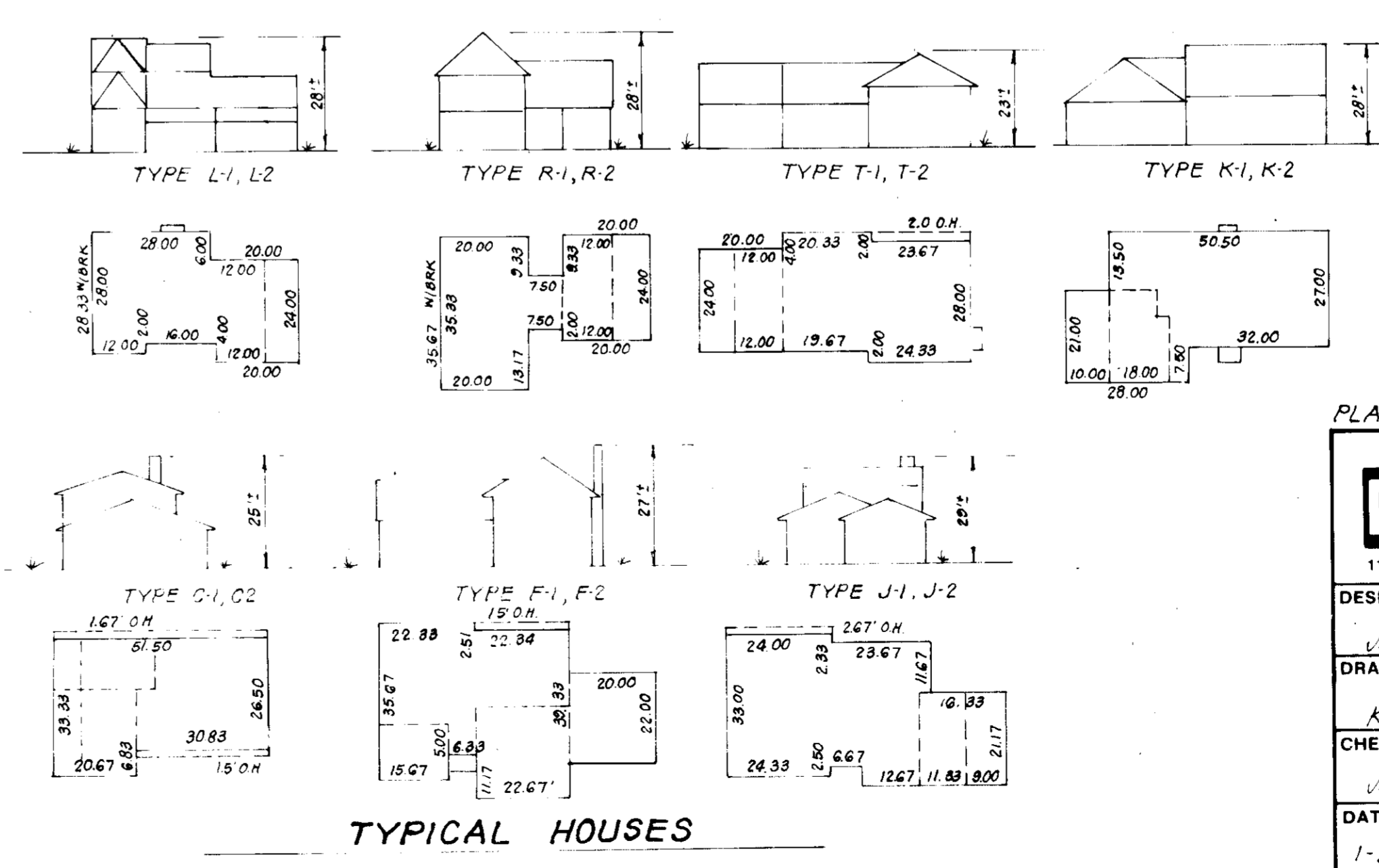
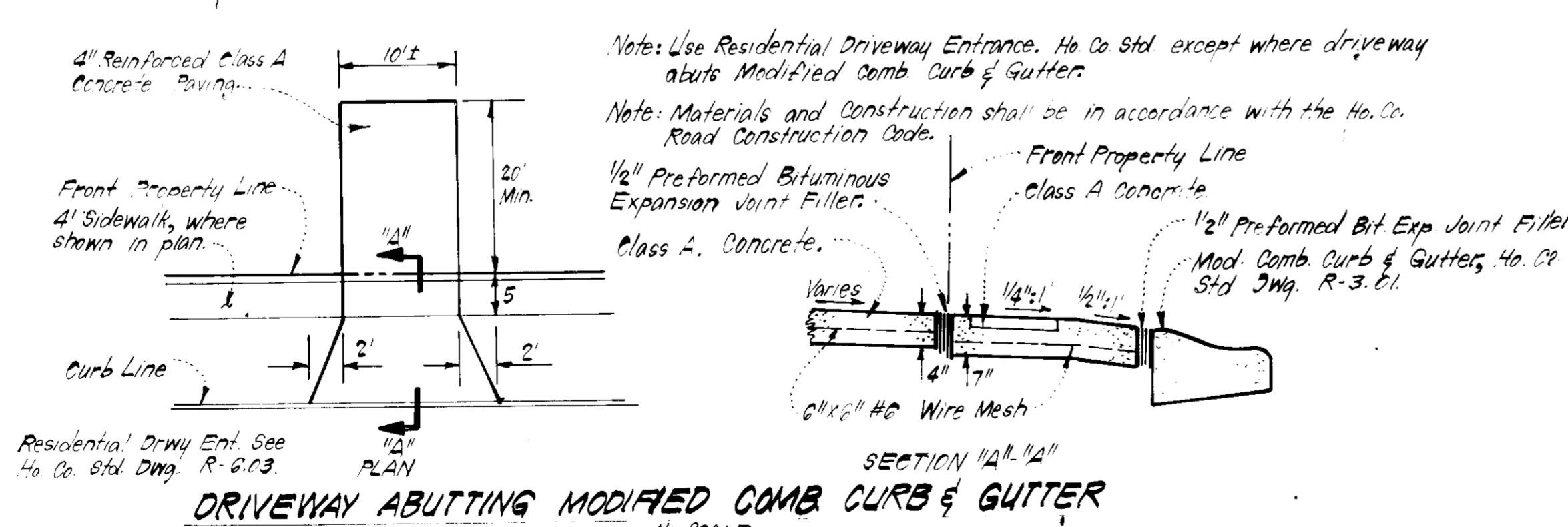
SITE DEVELOPMENT PLAN  
 LOTS 81 THRU 84, 114 & 115, 248 THRU 255  
 AND LOTS 262 THRU 265 & 267  
**COLUMBIA**  
 VILLAGE OF KINGS CONTRIVANCE  
 SECTION 2 AREA 3  
 6TH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 FOR: COLUMBIA BUILDERS, INC.  
 3 Lakefront North Suite 200  
 Columbia, Maryland 21046

SDP-83-93.



APPROVED  
DIVISION OF LAND DEVELOPMENT &  
ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE 3-2-83

*Handwritten signature*



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,  
HOWARD COUNTY HEALTH DEPARTMENT  
DATE 3-2-83  
APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING  
DATE 3-28-83  
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE  
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
DATE 3-22-83

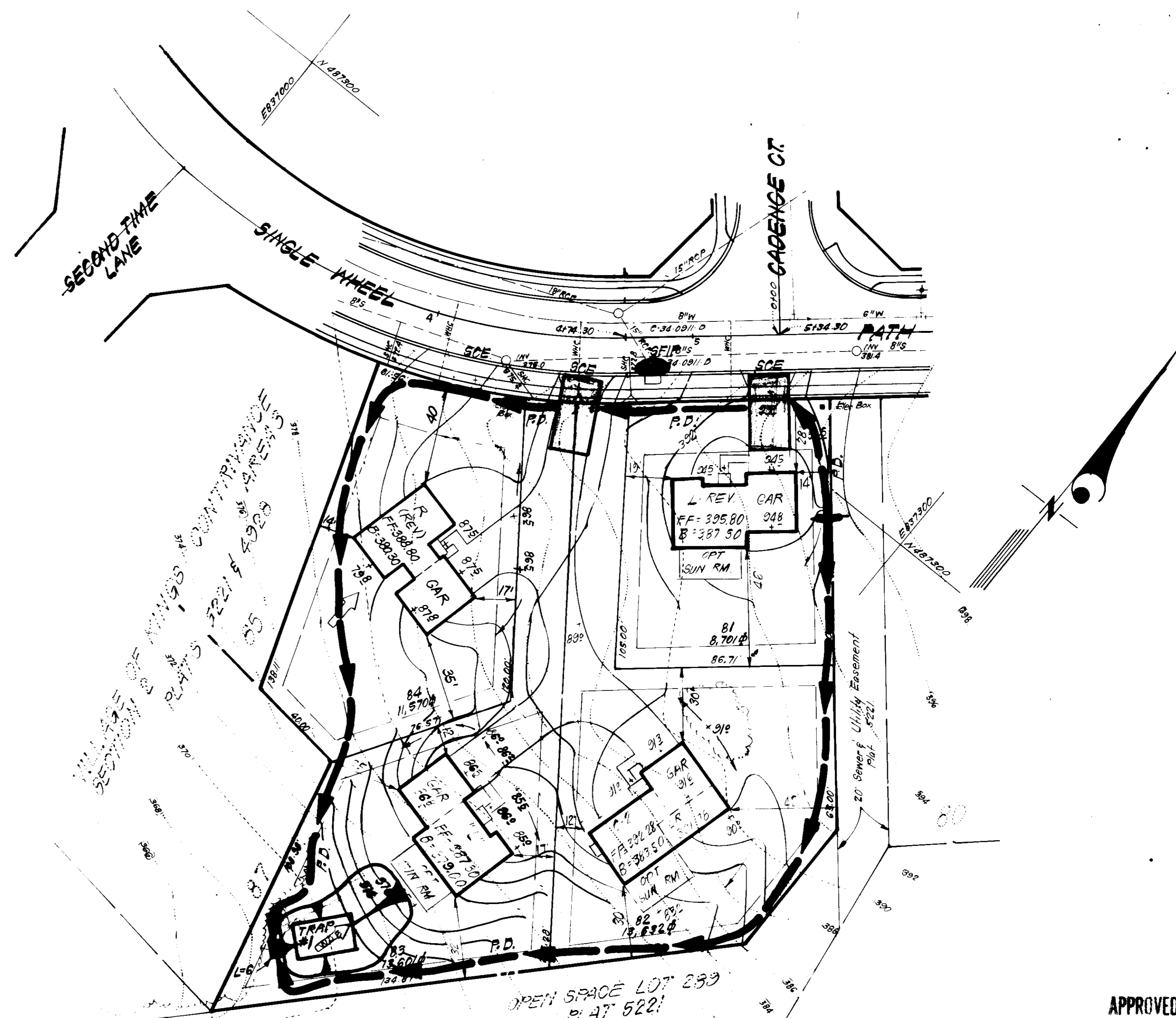
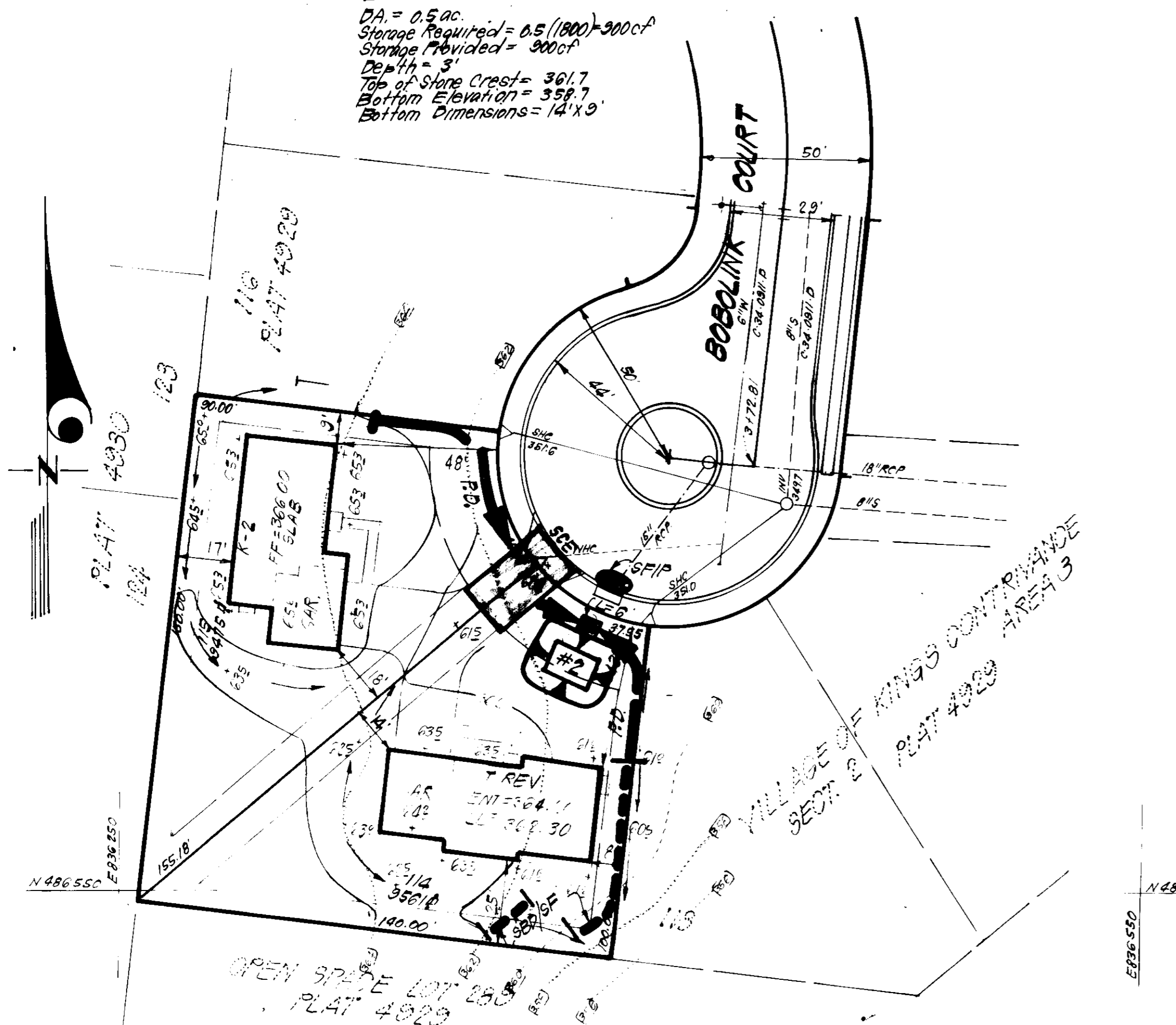
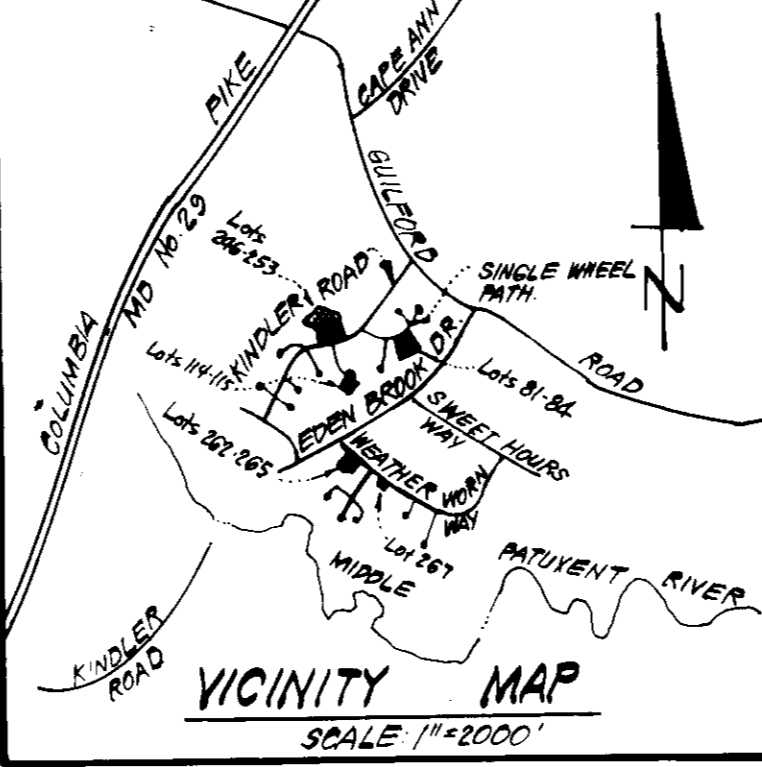
PLAT REF: 4929, 4950, 5221 & 5225

<b>CLARK · FINEFROCK &amp; SACKETT</b> ENGINEERS · PLANNERS · SURVEYORS 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904		SCALE 1" = 30' DRAWING 20" x 5" JOB NO. 82-029 FILE NO. 82-029-X
DESIGNED JME DRAWN KJW CHECKED JME DATE 1-31-83	<b>SITE DEVELOPMENT PLAN</b> LOTS 81 THRU 84, 114 & 115, 246 THRU 253 AND LOTS 262 THRU 265 & 267 <b>COLUMBIA</b> VILLAGE OF KINGS CONTRIVANCE SECTION 2 AREA 3 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: COLUMBIA BUILDERS, INC. 3 Lakefront North, Suite 200 Columbia, Maryland 21044	

SDP-83-93c

N486850  
E696850

TRAP#2 S.O.ST. (ST.3)  
DA = 0.5 ac.  
Storage Required = 0.5(1000) = 500cf  
Storage Provided = 300cf  
Depth = 3'  
Top of Stone Crest = 361.7  
Bottom Elevation = 358.7  
Bottom Dimensions = 14' x 9'



TRAP#1 S.O.ST. (ST.3)  
DA = 1.0 Acre  
Storage Required = 1.0(1000) = 1000cf  
Storage Provided = 1000cf  
Depth = 3'  
Top of Stone Crest = 370.0  
Bottom Elevation = 367.0  
Bottom Dimension = 14' x 24'

APPROVED  
DIVISION OF LAND DEVELOPMENT &  
ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE 3-2-83

- SEDIMENT & EROSION LEGEND:**
- 1. Perimeter Dike
  - 2. Diversion Dike
  - 3. Straw Bale Dike / Silt Fence
  - 4. Stone Filter Inlet Protection
  - 5. Stone Construction Entrance
  - 6. Stabilized Construction Entrance
  - 7. Sediment Trap

- LEGEND:**
- 1. Contour Interval
  - 2. Existing Contour
  - 3. Proposed Contour
  - 4. Spot Elevation
  - 5. Direction of Drainage
  - 6. Existing Trees to be retained
  - 7. Retaining Wall

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT  
DATE 3-2-83  
APPROVED FOR PLANNING & ZONING  
DATE 3-28-83  
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE,  
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
DATE 3-22-83

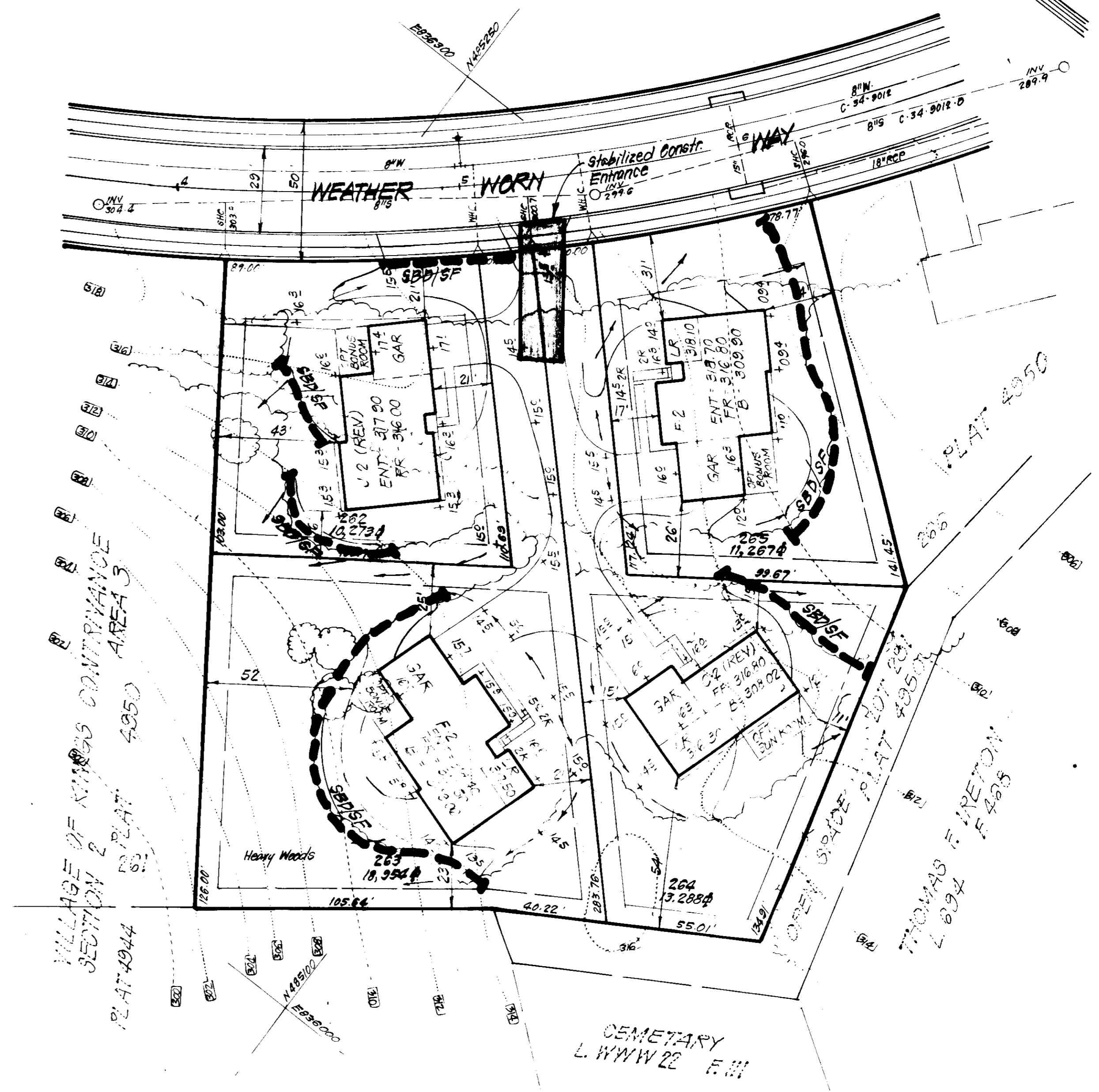
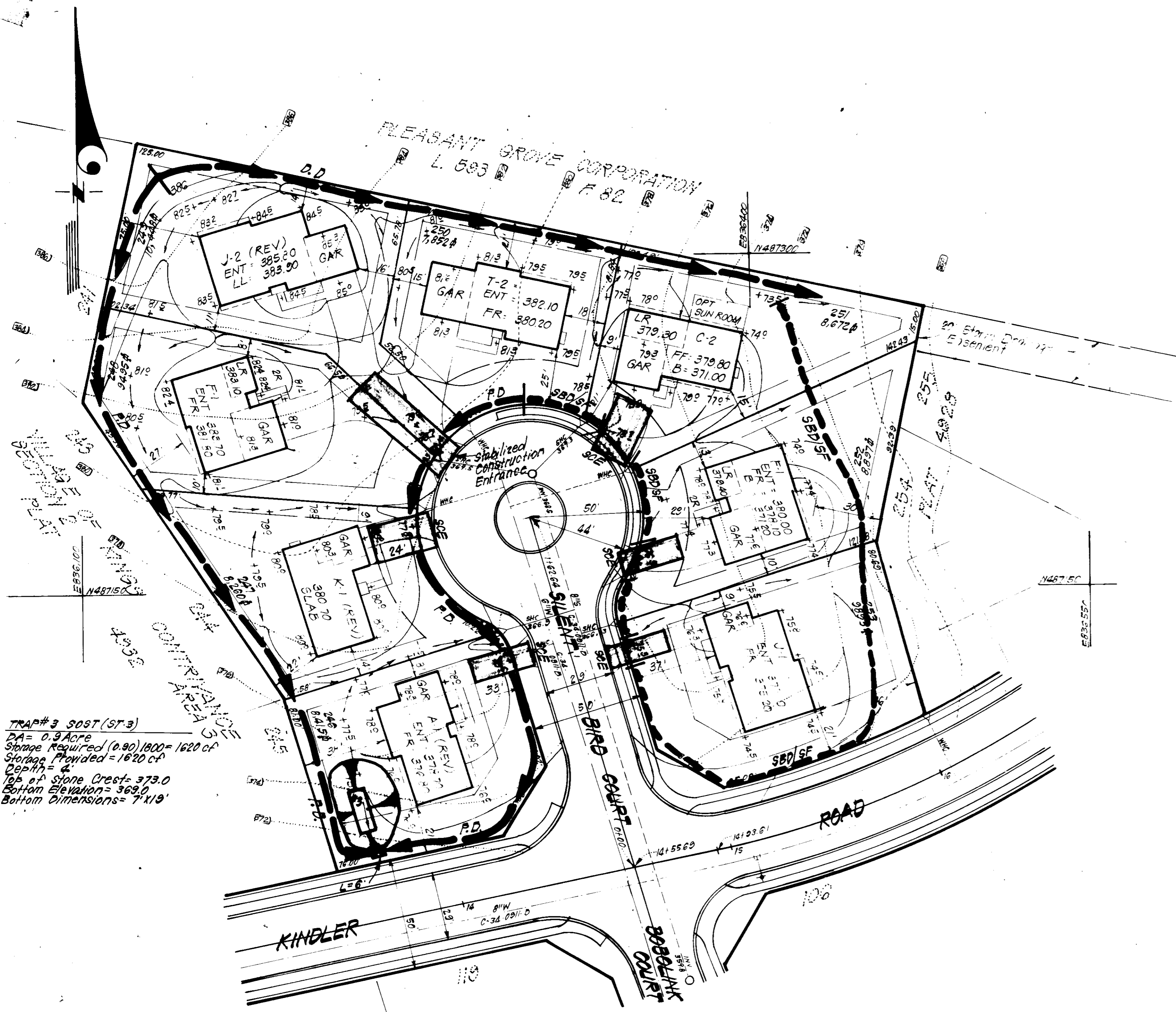
Reviewed for: HOWARD S.C.D.  
and meets Technical Requirements  
Signature: [Signature]  
Date: 3/1/83  
U.S. Soil Conservation Service  
THIS DEVELOPMENT PLAN IS APPROVED  
FOR SOIL EROSION AND SEDIMENT  
CONTROL BY THE HOWARD SOIL  
CONSERVATION DISTRICT.  
Signature: [Signature]  
Date: 3-17-83

DEVELOPER'S/BUILDER'S CERTIFICATE  
I certify that all development and construction will be done  
in accordance with this plan of development and plan for erosion and sediment  
control and that all responsible personnel involved in the construction  
will have a Certificate of Attendance at a Dept. 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  
agents, as are deemed necessary.  
Signature: B. James Greenfield  
Date: 1/9/83

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 Conserva-  
tion District.  
Signature: [Signature]  
Date: 1-31-83

CLARK • FINEFROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS 1131F LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400		
DESIGNED B.F. VLS	SEDIMENT & EROSION CONTROL PLAN LOTS 81 THRU 84, 114 & 115, 248 THRU 255 AND LOTS 262 THRU 265 & 267 COLUMBIA VILLAGE OF KINGS CONTRIVANCE SECTION 2 AREA 3 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE 1" = 30' DRAWING 3 OF 5 JOB NO. 82-029 FILE NO. 82-029 SE
DRAWN K.L.W.		
CHECKED VLS		
DATE 1-31-83	FOR: COLUMBIA BUILDERS, INC. 3 Lakefront North Suite 200 Columbia, Maryland 21044	

SDP-83-93.



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

*[Signature]* 3-25-83  
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
*[Signature]* 3-28-83  
PLANNING DIRECTOR DATE

*[Signature]* 3-29-83  
CHIEF DIVISION OF LAND DEVELOPMENT & ZONING ADMIN. DATE

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

*[Signature]* 3-22-83  
DIRECTOR DATE

*[Signature]* 3-22-83  
CHIEF BUREAU OF ENGINEERING DATE

Reviewed for HOWARD S.C.D.  
Name  
and meets Technical Requirements

*[Signature]* 3/21/83  
Signature Date

U.S. Soil Conservation Service

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

*[Signature]* 3-22-83  
APPROVED

DEVELOPER'S/BUILDER'S CERTIFICATE

I hereby certify that all development and construction will be done in accordance with this plan of development and plan for erosion and sediment control, and that all responsible personnel involved in the construction of this project will have a Certificate of Attendance at a Dept. 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 deemed necessary.

*[Signature]* 1/3/83  
Signature of Developer/BUILDER DATE

B. JAMES GREENFIELD



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.

*[Signature]* 1-31-83  
Signature DATE

B. NORTON CLARK

APPROVED  
DIVISION OF LAND DEVELOPMENT &  
ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE 3-2-83  
*[Signature]*

<b>CLARK · FINEFROCK &amp; SACKETT</b> ENGINEERS · PLANNERS · SURVEYORS		(301) 593-3400
11318 LOCKWOOD DRIVE · SILVER SPRING, MARYLAND 20904		
DESIGNED BP JLS	SEDIMENT & EROSION CONTROL PLAN LOTS 81 THRU 84, 114 & 115, 226 THRU 253 AND LOTS 262 THRU 265 & 267	SCALE 1" = 30'
DRAWN KJW	<b>COLUMBIA</b>	DRAWING 425 5
CHECKED JLS	VILLAGE OF KINGS CONTRIVANCE SECTION 2 AREA 3 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO. 82-029
DATE 1-31-83	FOR: COLUMBIA BUILDERS, INC. 3 Lakefront North, Suite 200 Columbia, Maryland 21044	FILE NO. 82-029-5E

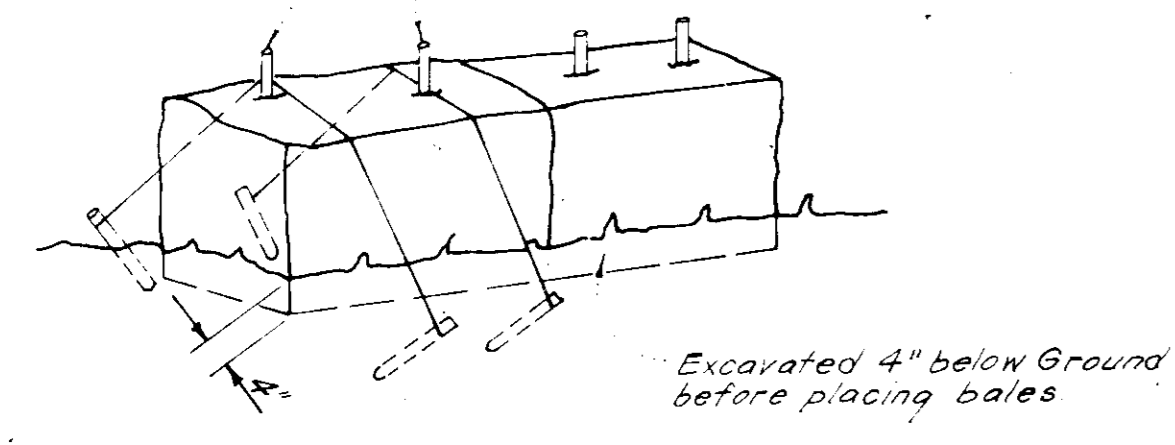
SDP-83-93c

**GENERAL NOTES**

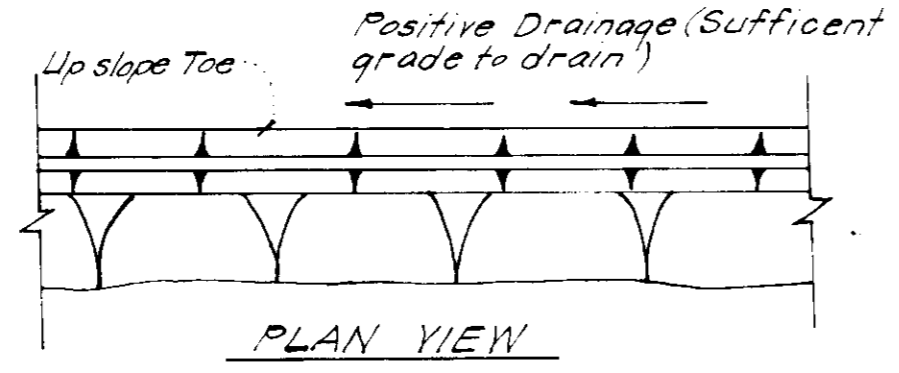
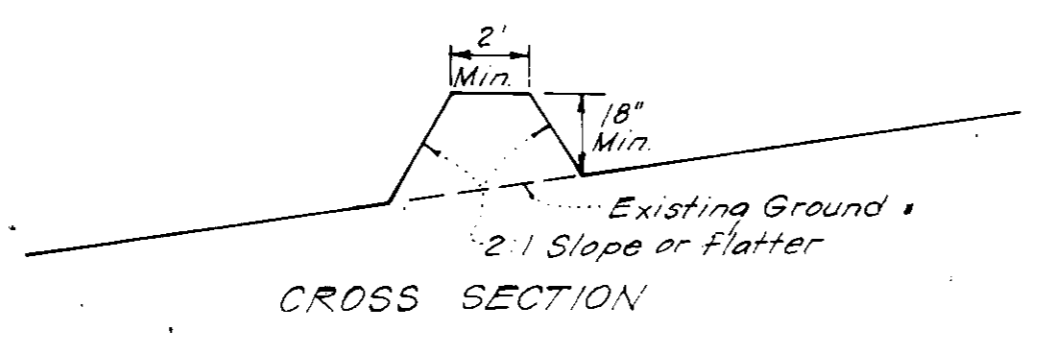
- Grading Permits shall be obtained prior to installation of Sediment Control & Grading
- All Sediment and Erosion Control Measures will be installed and stabilized according to this plan prior to any other grading, clearing or disturbance of the existing surface of the site. See note #6 for stabilization except that the seed mixture will be annual rye applied at a rate of 14 lbs/1000 sf.
- Notify the Bureau of Inspections and Permits at least 24 hrs before starting any work.
- All Sediment Control Practices to conform to the "Standards and Specifications for Soil Erosion and Sediment Control in Developing Areas" and shall be adjusted to meet actual field conditions.
- Stabilization of Disturbed ground to be done as soon after construction as possible.
- All disturbed area to be stabilized in accordance with the following Specifications:
  - A. Seed - certified 85% germination applied at the rate of 3lbs/1000 sf. Mixture - 40% Kentucky Blue, 20% chewing Fescue, 20% Kentucky 31 and 20% annual rye.
  - B. Fertilizer - 10-10-10 applied at a rate of 23 lbs/1000 sf. Ground Agricultural Lime or Dolomitic Lime applied at a rate of 90 lbs/1000 sf.
  - C. Mulch - Weed free grain straw applied at a rate of 70-90 lbs/1000 sf. Mulch shall be secured to the ground by any approved method i.e.; asphalt tacks, chemical binder etc.
  - D. All Sod used shall be Maryland State Certified.
- All structural Sediment Control Measures are to remain in place until permission for their removal has been obtained from the Bureau of Inspections and Permits.
- On-Site Inspection and Maintenance of all Sediment Control Measures including clean out of Sediment Traps and Dikes, and proper establishment of all planned vegetative measures will be the responsibility of the developer or his representative on the site, on a continuing day to day basis.
- It will be the developers responsibility to provide additional Sediment & Erosion Control Devices to protect stabilized areas during construction.
- The Contractor shall keep all public roads free of sediment deposits left from traffic leaving construction site.
- Approval of this plan is conditional upon the approval of Sediment Control Plan for the off-site waste or borrow area prior to the import of any borrow or export of waste to or from this site.
- All pipes to be blocked at the end of each day. See detail this sheet.
- Total Amount of Straw Bales or Silt Fence shown = 110 - F
- SITE ANALYSIS:
  - A. Total Area: 4.677 Acres
  - B. Area to be Roofed: 0.817 Acres
  - C. Area to be Paved: 0.355 Acres
  - D. Area to be Seeded: 2.765 Acres
  - E. Area Undisturbed: 0.690 Acres
- CONSTRUCTION SEQUENCE:
  - A. Install Sediment & Erosion Control Devices and Stabilize Diversion Dike.
  - B. Excavate for Foundations and Rough Grade
  - C. Erect Structures, Driveways and Sidewalks
  - D. Final Grade and Stabilize in accordance with note #6.
- If houses are to be constructed on an "As-Sold" basis at random, Single Lot Sediment Control, as shown on this sheet, shall be implemented.

All bales shall be tied with non-weathering materials, i.e. wire nylon

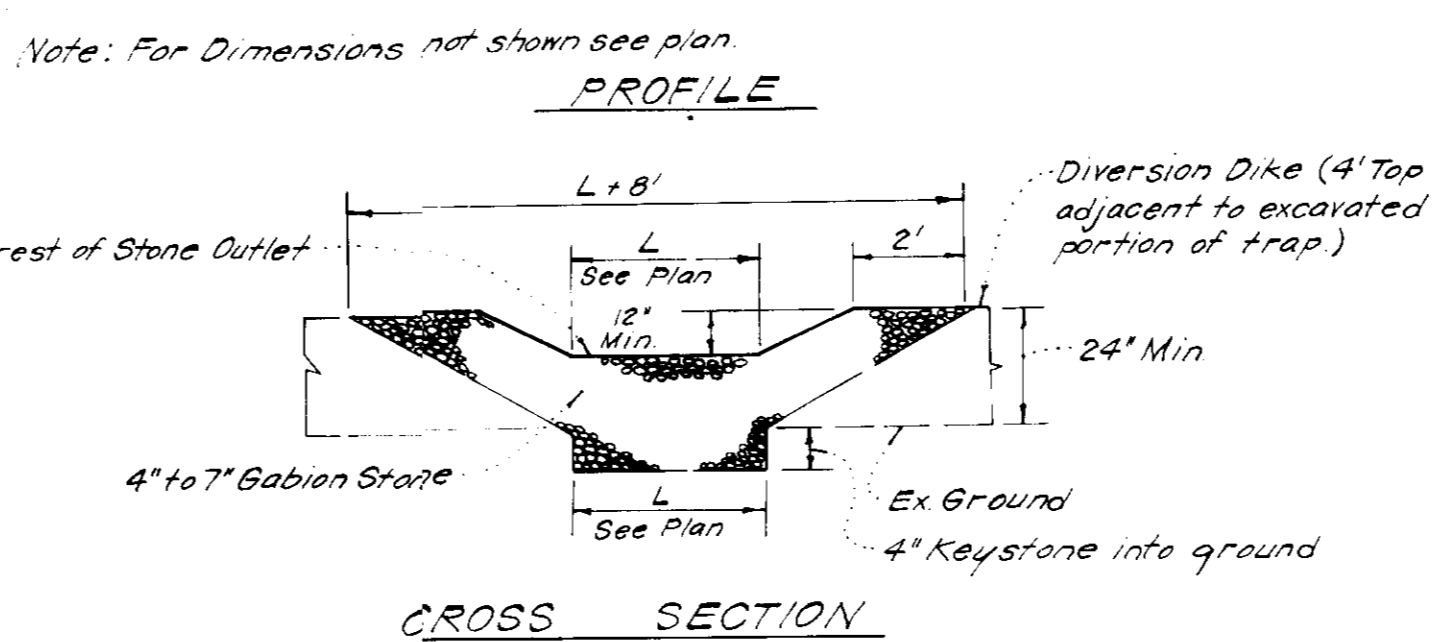
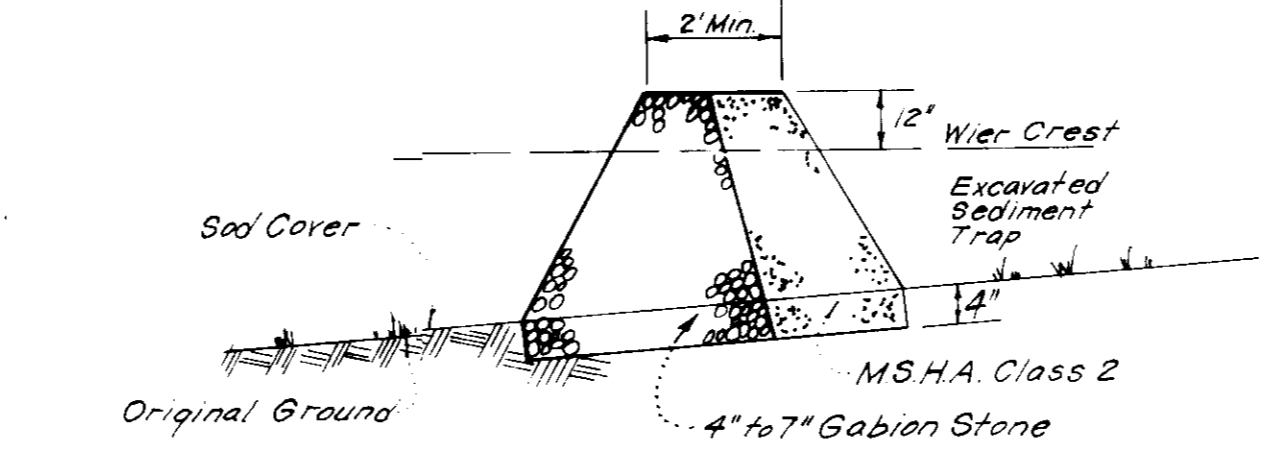
Two rebar or wooden stakes driven through each hole 1 1/2" - 2" into ground. Rebars to be driven flush with top of bales



**STRAW BALE DIKE DETAIL (S.B.D.)**  
No SCALE

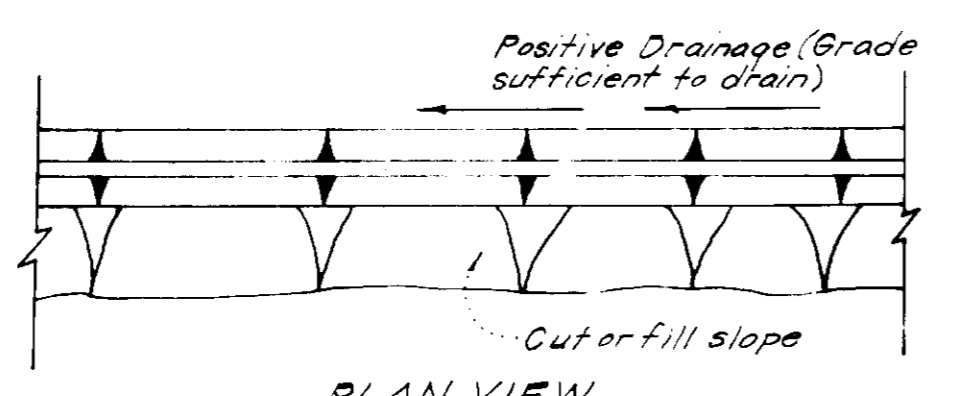
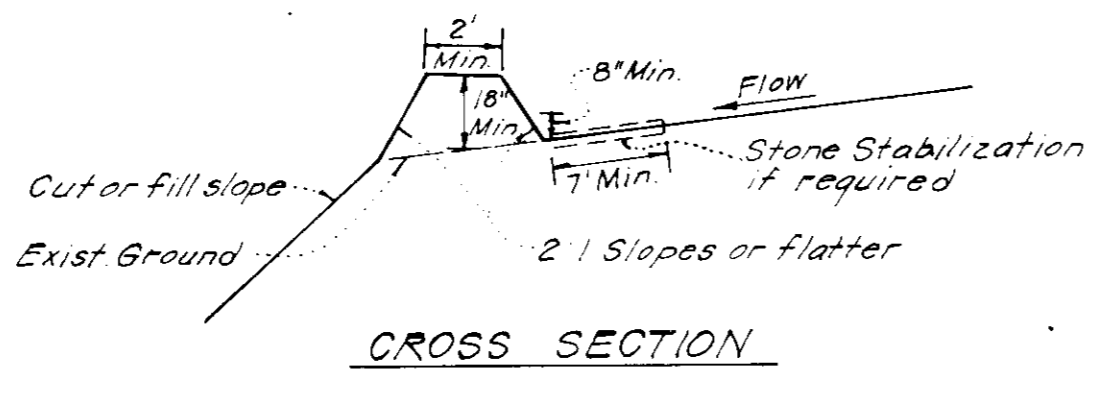


**PERIMETER DIKE (P.D.)**  
No SCALE

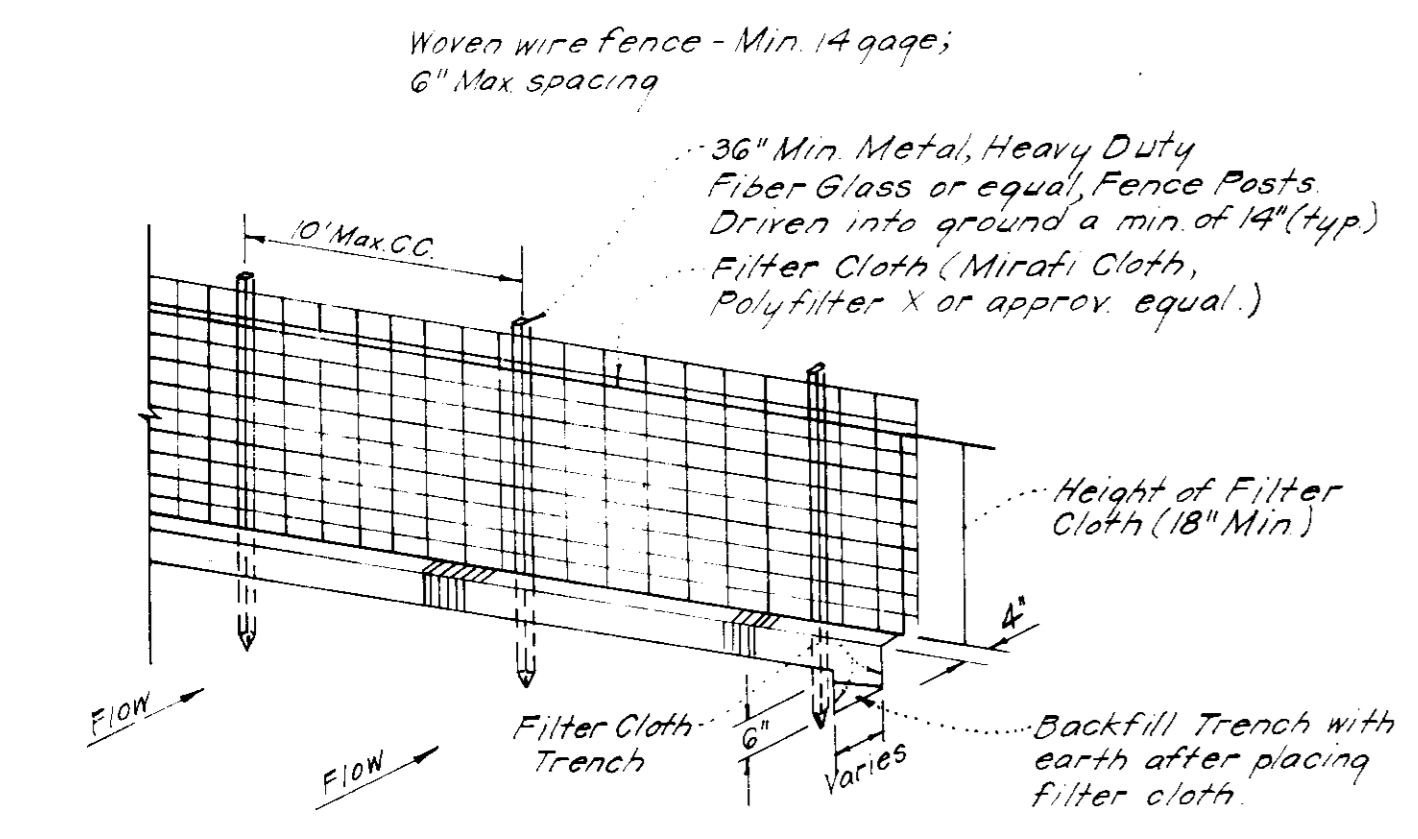


- Notes:
- Sediment Trap to be cleaned out when sediment reaches a level of 1ft below crest of stone outlet.
  - Bottom of Sediment Trap to be level and constructed to the dimensions shown on plan.
  - Stone Outlet to be constructed through diversion dike adjacent to excavated.

**DETAILS OF STONE FILTER OUTLET FOR STONE OUTLET SEDIMENT TRAP**  
No SCALE

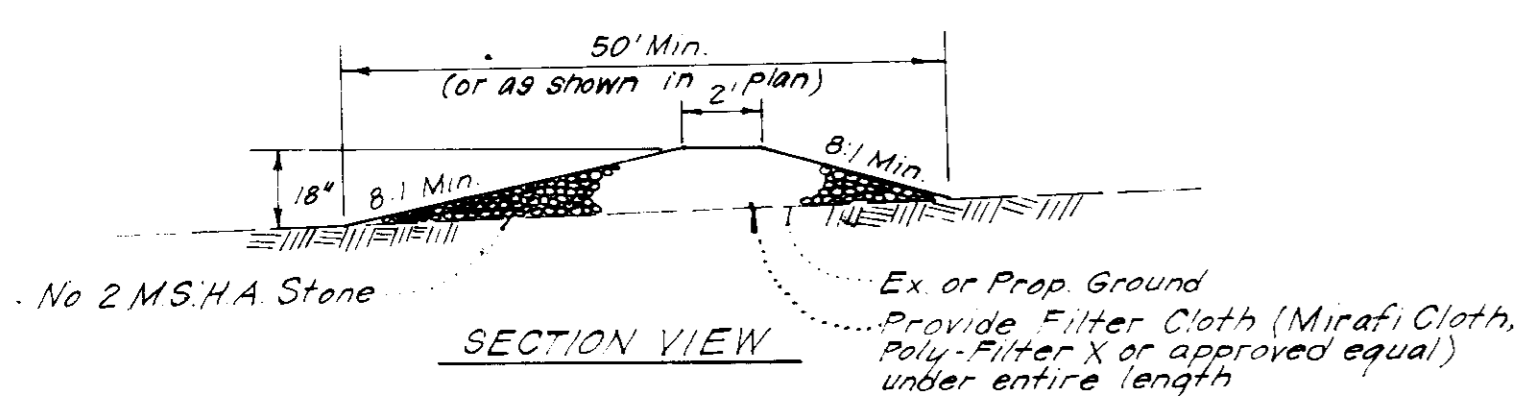


**DIVERSION DIKE (D.D.)**  
No SCALE

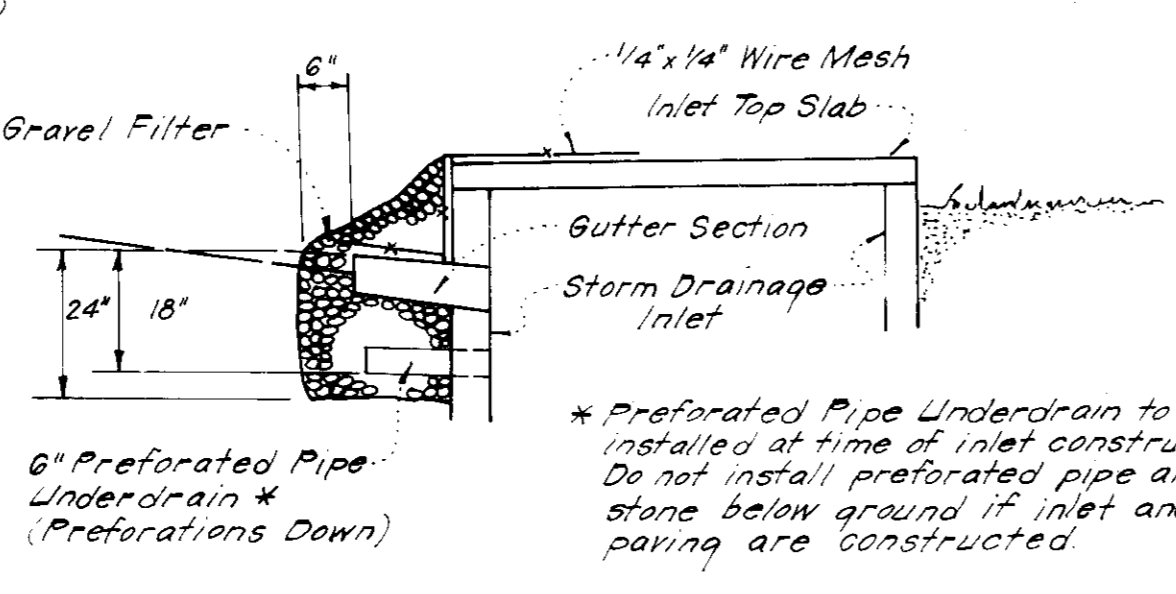
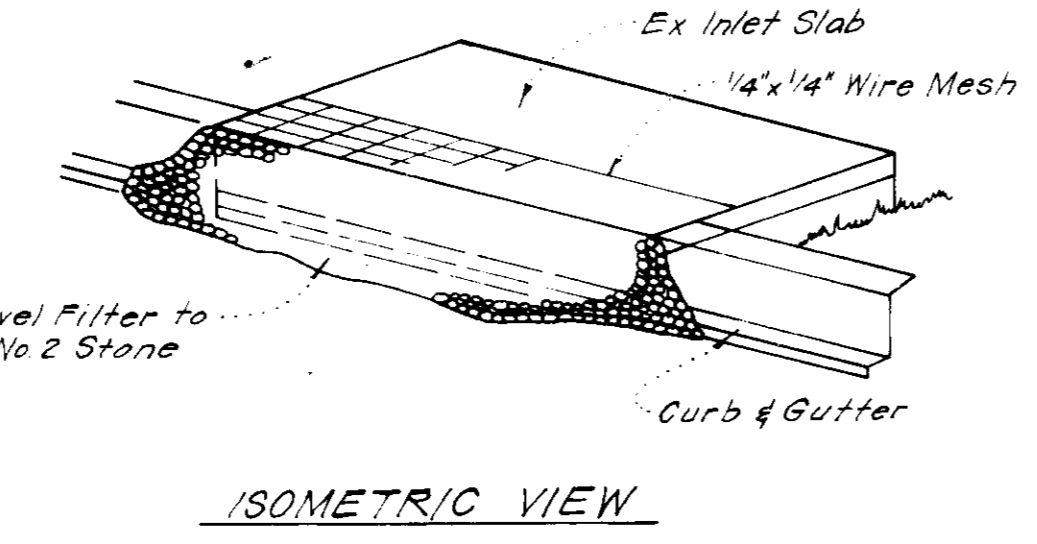


- Notes:
- Woven Wire Fence to be fastened securely to fence posts by use of wire ties.
  - Filter Cloth to be fastened securely to Woven Wire, by use of wire ties spaced every 24"x24".

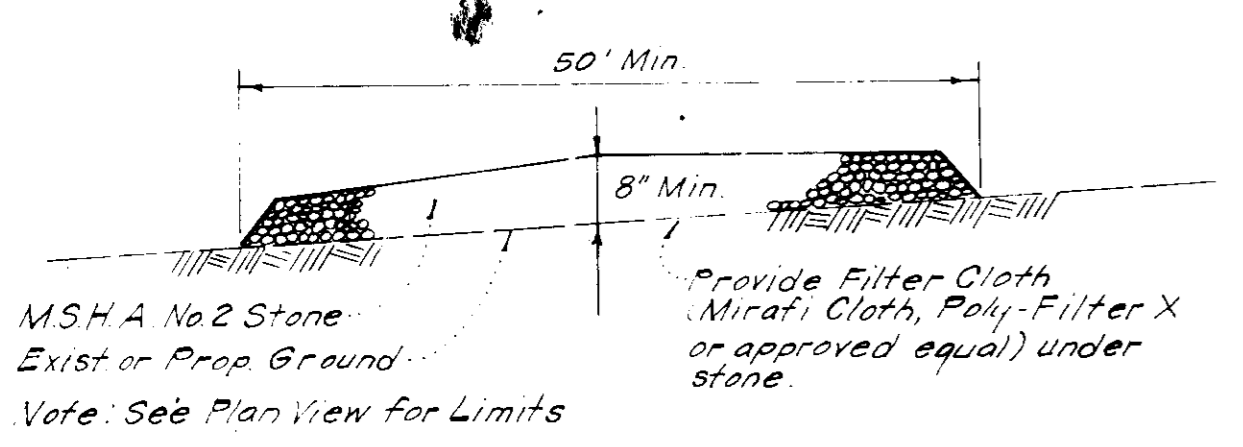
**SILT FENCE DETAIL (S.F.)**  
No SCALE



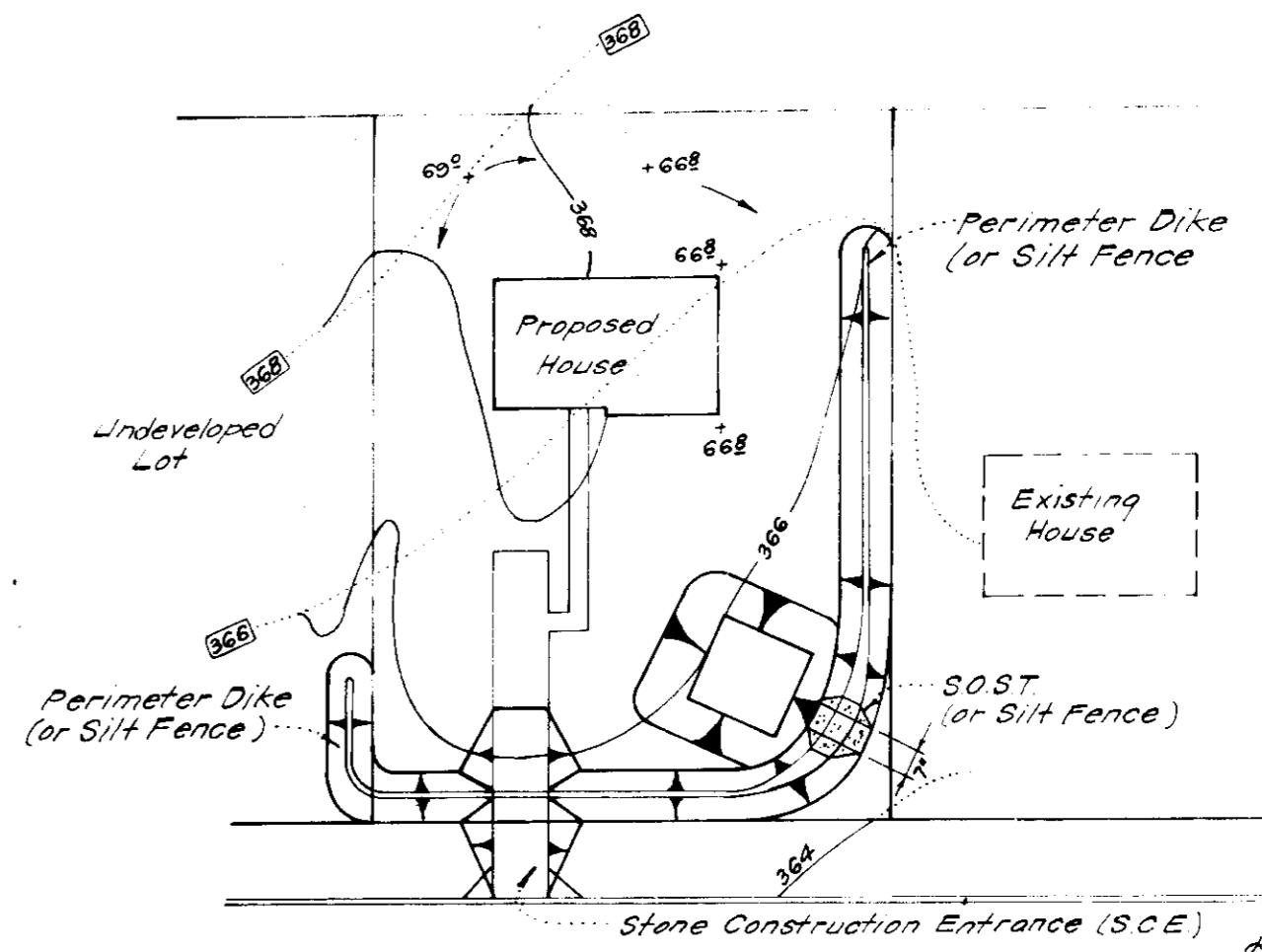
**STONE CONSTRUCTION ENTRANCE (S.C.E.)**  
No SCALE



**STONE FILTER INLET PROTECTION (S.F.I.P.)**  
No SCALE



**STABILIZED CONSTRUCTION ENTRANCE**  
No SCALE



**SINGLE LOT SEDIMENT CONTROL PLAN**  
No SCALE

SOST #			
Lot Size	1/4 Ac.	1/2 Ac.	1 Ac.
L	2'	3'	6'
Depth	2'	2'	2'
Bot Length	11'	26'	26'
Bot Width	11'	11'	26'
Bot Area	121 sq	286 sq	676 sq

\* See Std ST-3 pg 2007 for det not shown  
\*\* Can be adjusted in field but bottom area must be as given or greater.

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

Reviewed for Howard S.C.D. Name and meets Technical Requirements

U.S. Soil Conservation Service  
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

CONTRACTOR'S/BUILDER'S CERTIFICATE

I hereby certify that all development and construction will be done in accordance with this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction will have a Certificate of Attendance at a Dept. of Natural Resources Approved Training Program for the Control of Sediment and Erosion beginning the project. I also authorize periodic observation by the Howard Soil Conservation District or their agents, as are deemed necessary.

ENGINEER'S CERTIFICATE

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



CLARK • FINEPROCK & SACKETT  
ENGINEERS • PLANNERS • SURVEYORS

11315 LOCKWOOD DRIVE, COLLETSVILLE, MARYLAND 21034

DESIGNED BY B.P.  
DRAWN BY K.M.  
CHECKED BY J.L.S.  
DATE 1.31.83

SEDIMENT & EROSION CONTROL PLAN  
LOTS 81 THRU 84, 114 & 115, 200 THRU 253 AND LOTS 282 THRU 285 & 287  
COLUMBIA VILLAGE OF KINGS CONTRIVANCE SECTION 2 AREA 3  
6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
FOR: COLUMBIA BUILDERS INC 3 Lakefront North, Suite 200 Columbia, Maryland 21044

SCALE AS SHOWN  
DRAWING 50 = 5  
JOB NO. 82-029  
FILE NO. 82-029-SE