

APPROVED
DIVISION OF LAND DEVELOPMENT
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 12-20-82
AMM

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT
[Signature] 1-17-83
DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
[Signature] 1-17-83
DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE,
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[Signature] 1-17-83
DATE

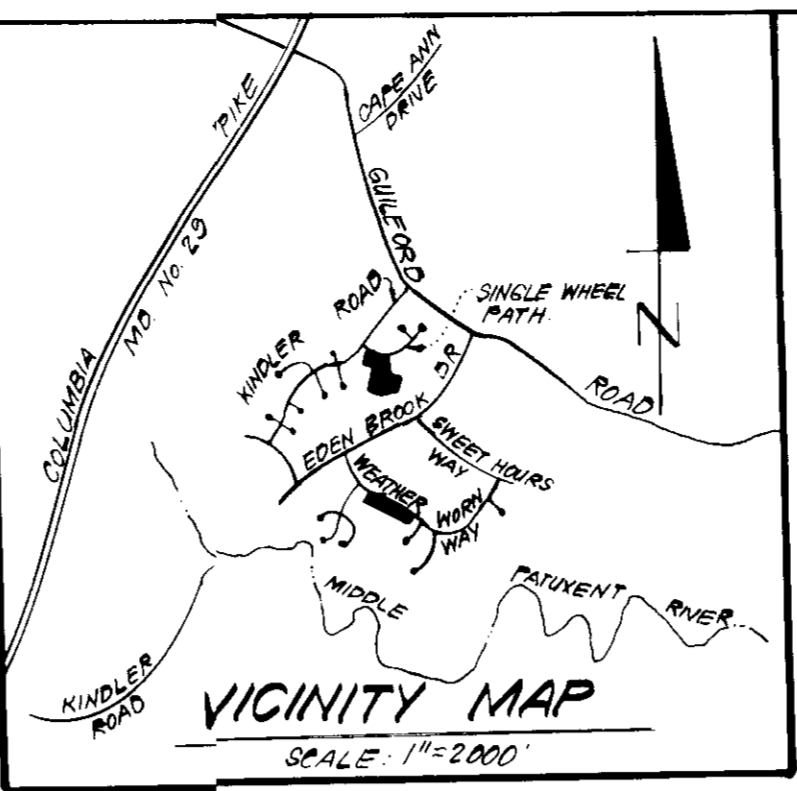
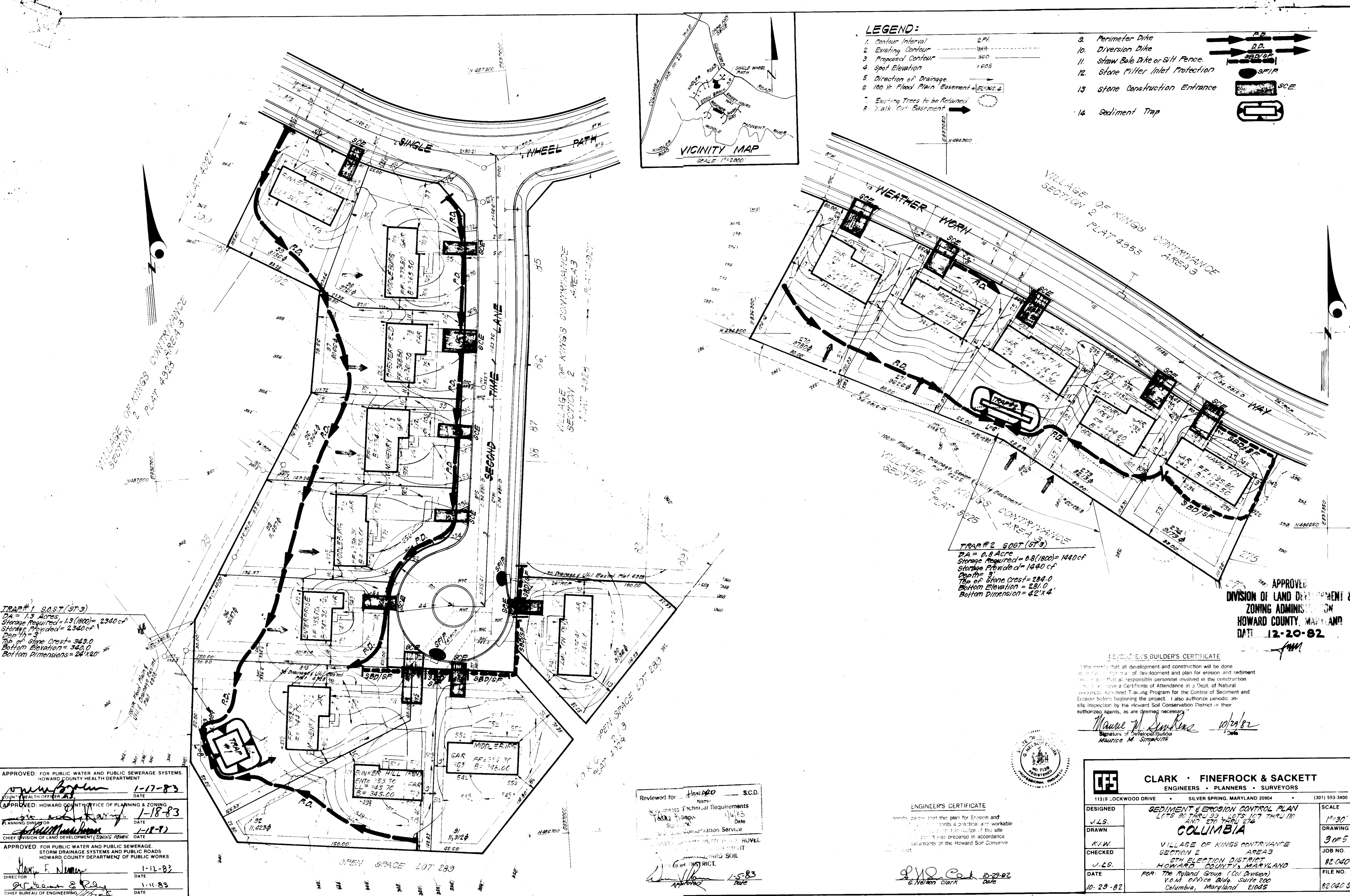
DIRECTOR

CHIEF BUREAU OF ENGINEERING
[Signature] 1-17-83
DATE

PLAT REF: Plats 4927, 4928, 4929 & 5225

CLARK • FINEFROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS 11315 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20904 (301) 593-3400		
DESIGNED J.M.E.	SITE DEVELOPMENT PLAN LOTS 90 THRU 99, LOTS 107 THRU 110 AND 270 THRU 274 COLUMBIA VILLAGE OF KINGS CONTRIVANCE SECTION 2 AREA 3 8TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE 1"=30'
DRAWN K.I.W.		DRAWING 20F 5
CHECKED J.M.E.		JOB NO. 82 040
DATE 10-29-82	FOR: The Ryland Group (Col. Division) V.O.M. OFFICE Bldg. Suite 200 Columbia, Maryland, 21045	FILE NO. 82 040-X

SDP-83-43C



- LEGEND:**
- 1. Contour Interval 2.0'
 - 2. Existing Contour 360
 - 3. Proposed Contour 360
 - 4. Spot Elevation 1.605
 - 5. Direction of Drainage
 - 6. 100 Yr. Flood Plain Easement EL 362.2
 - 7. Existing Trees to be Retained
 - 8. Walk Out Basement
 - 9. Perimeter Dike
 - 10. Diversion Dike
 - 11. Straw Bale Dike or Silt Fence
 - 12. Stone Filter Inlet Protection
 - 13. Stone Construction Entrance
 - 14. Sediment Trap

TRAP# 1 S.O.S.T. (973)
 DA = 1.3 Acres
 Storage Required = 1.3(1800) = 2340 cf
 Storage Provided = 2340 cf
 Depth = 3'
 Top of Stone Crest = 343.0
 Bottom Elevation = 340.0
 Bottom Dimensions = 24'x20'

TRAP# 2 S.O.S.T. (973)
 DA = 0.8 Acre
 Storage Required = 0.8(1800) = 1440 cf
 Storage Provided = 1440 cf
 Depth = 3'
 Top of Stone Crest = 284.0
 Bottom Elevation = 281.0
 Bottom Dimensions = 42'x4'

APPROVED
 DIVISION OF LAND DEVELOPMENT &
 ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE 12-20-82

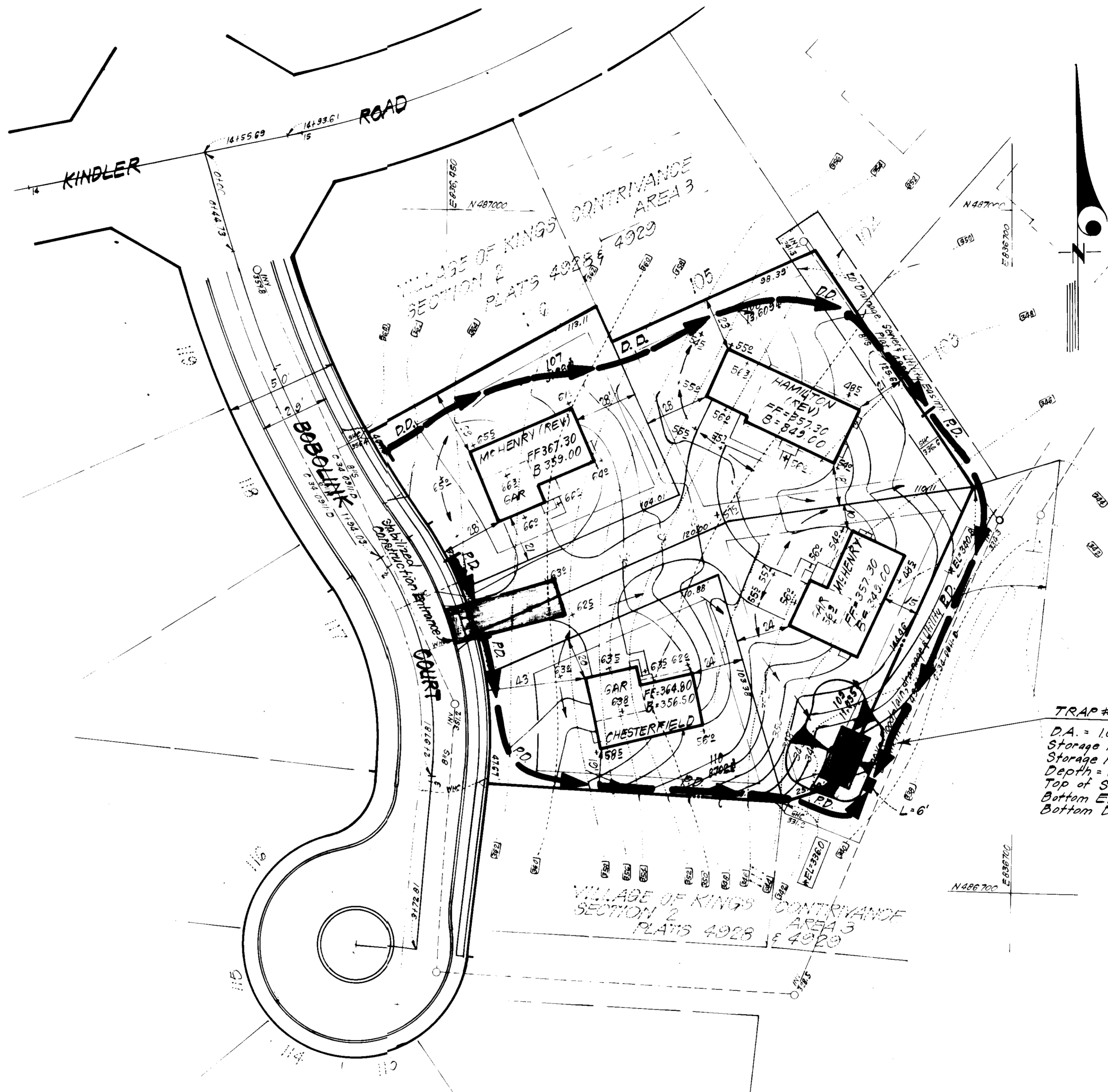
DEVELOPER'S/BUILDER'S CERTIFICATE
 We certify that all development and construction will be done in accordance with the plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction of this project have a Certificate of Attendance at a Dept. 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 of Developer/Builder: *Maurice M. Simpkins* 1/29/83
 Date: 1/29/83

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
 HOWARD COUNTY HEALTH DEPARTMENT
 1-17-83
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
 1-18-83
 APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE,
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 1-12-83
 1-11-83

Reviewed for HOWARD S.C.D.
 Name: *John Simpson*
 Date: *1/5/83*
 Approved: *John Simpson*

ENGINEER'S CERTIFICATE
 I hereby certify that this plan for Erosion and Sediment Control represents a practical and workable plan for the site and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.
 Signature: *G. Nelson Clark* 10-29-82
 Date: 10-29-82

CLARK • FINEFROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400				
DESIGNED	<i>J.L.S.</i>	SEDIMENT & EROSION CONTROL PLAN LOTS 90 THRU 93 & LOTS 107 THRU 110 AND 270 THRU 272 COLUMBIA VILLAGE OF KINGS CONTRIVANCE SECTION 2 AREA 3 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: The Ryland Group (Col. Division) V.O.M. OFFICE Bldg. SUITE 200 Columbia, Maryland 21045	SCALE	1"=30'
DRAWN	<i>J.L.S.</i>		DRAWING	3 OF 5
CHECKED	<i>K.W.</i>		JOB NO.	82-040
DATE	10-29-82		FILE NO.	82-040 SE
			SDP-83-486	



TRAP #3 SOST ST-3
 D.A. = 10 Ac.
 Storage Required = 1x1800 = 1800 cf
 Storage Provided = 1800 cf
 Depth = 3'
 Top of Stone Crest = 341.5
 Bottom Elev. = 338.5
 Bottom Dimension = 24' x 14'

APPROVED:
 DIVISION OF LAND DEVELOPMENT &
 ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE 12-29-82
 JMM

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER [Signature] DATE 1-17-83

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
 PLANNING DIRECTOR [Signature] DATE 1-18-83

CHIEF DIVISION OF LAND DEVELOPMENT/ZONING ADMIN. DATE 1-18-83

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE,
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR [Signature] DATE 1-11-83

CHIEF BUREAU OF ENGINEERING [Signature] DATE 1-15-83

Reviewed for: HOWARD S.C.U.
 Name
 State Technical Requirements
[Signature] Date 1/15/83
 U.S. Soil Conservation Service
 STATEMENT PLAN IS APPROVED
 BY THE HOWARD SOIL
 CONSERVATION DISTRICT.

[Signature] 1-15-83
 Approved Date

ENGINEER'S/BUILDER'S CERTIFICATE
 I hereby certify that all development and construction will be done in accordance with the plan for erosion and sediment control and that a responsible personnel member in the construction of this project will be present at the Dept. of Natural Resources' Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize the site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary.
[Signature] 1/21/82
 Signature of Developer/Builder Date
 Maurice M. Simpkins

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] 12-29-82
 G. Nelson Clark
 G. Nelson Clark Date

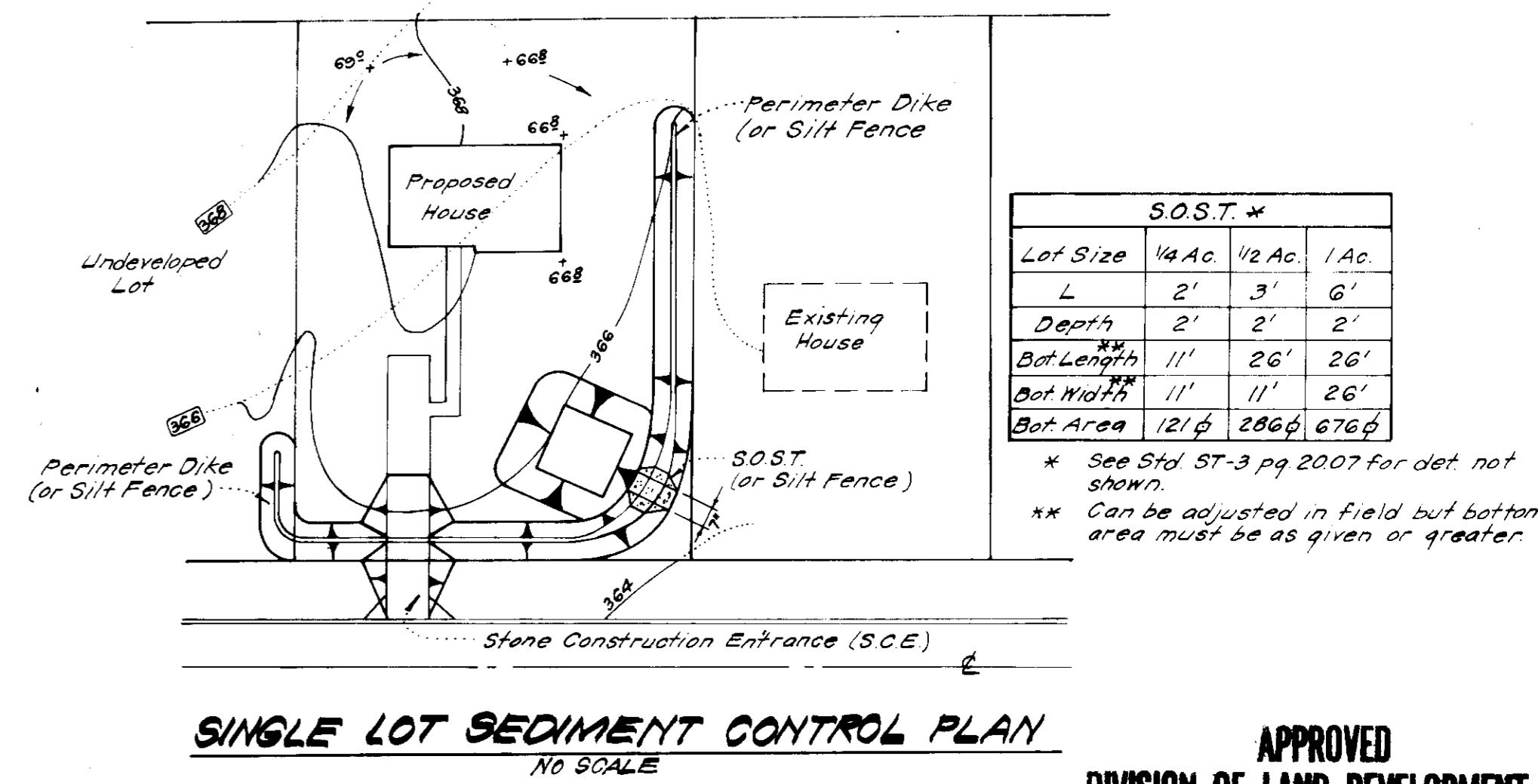
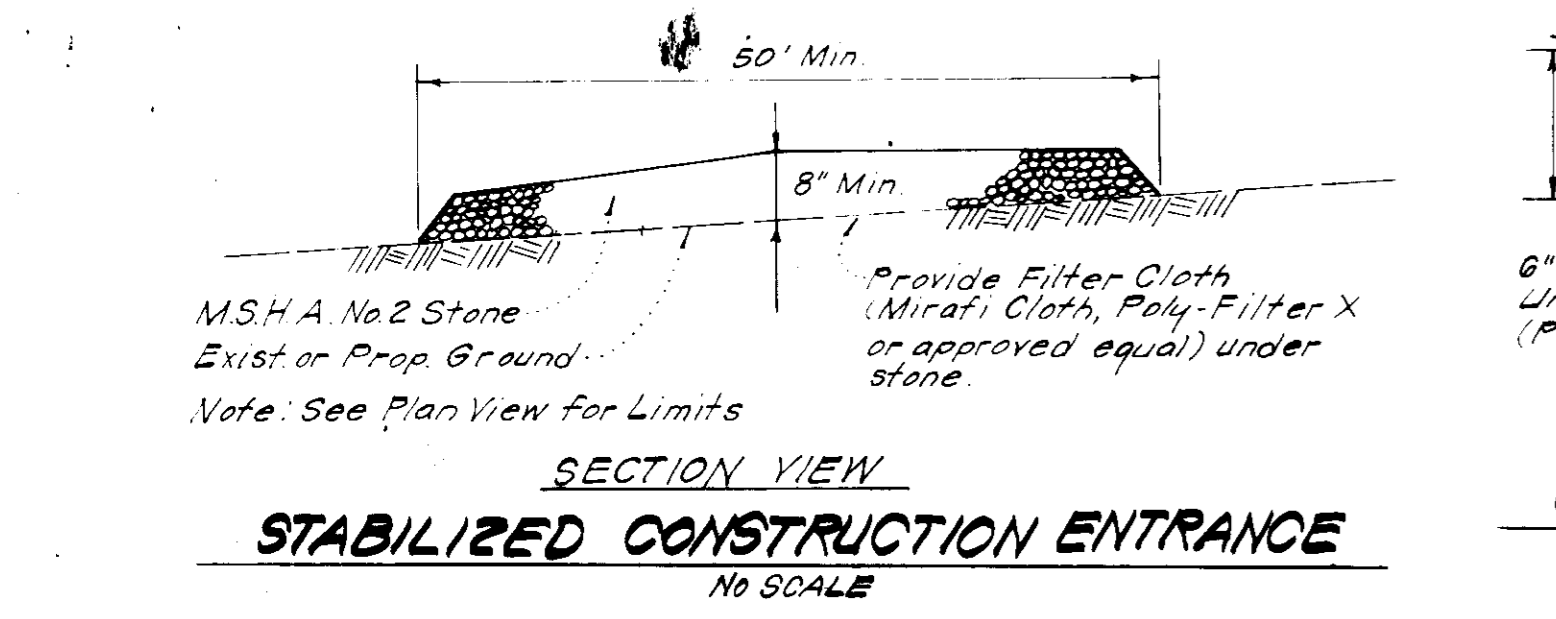
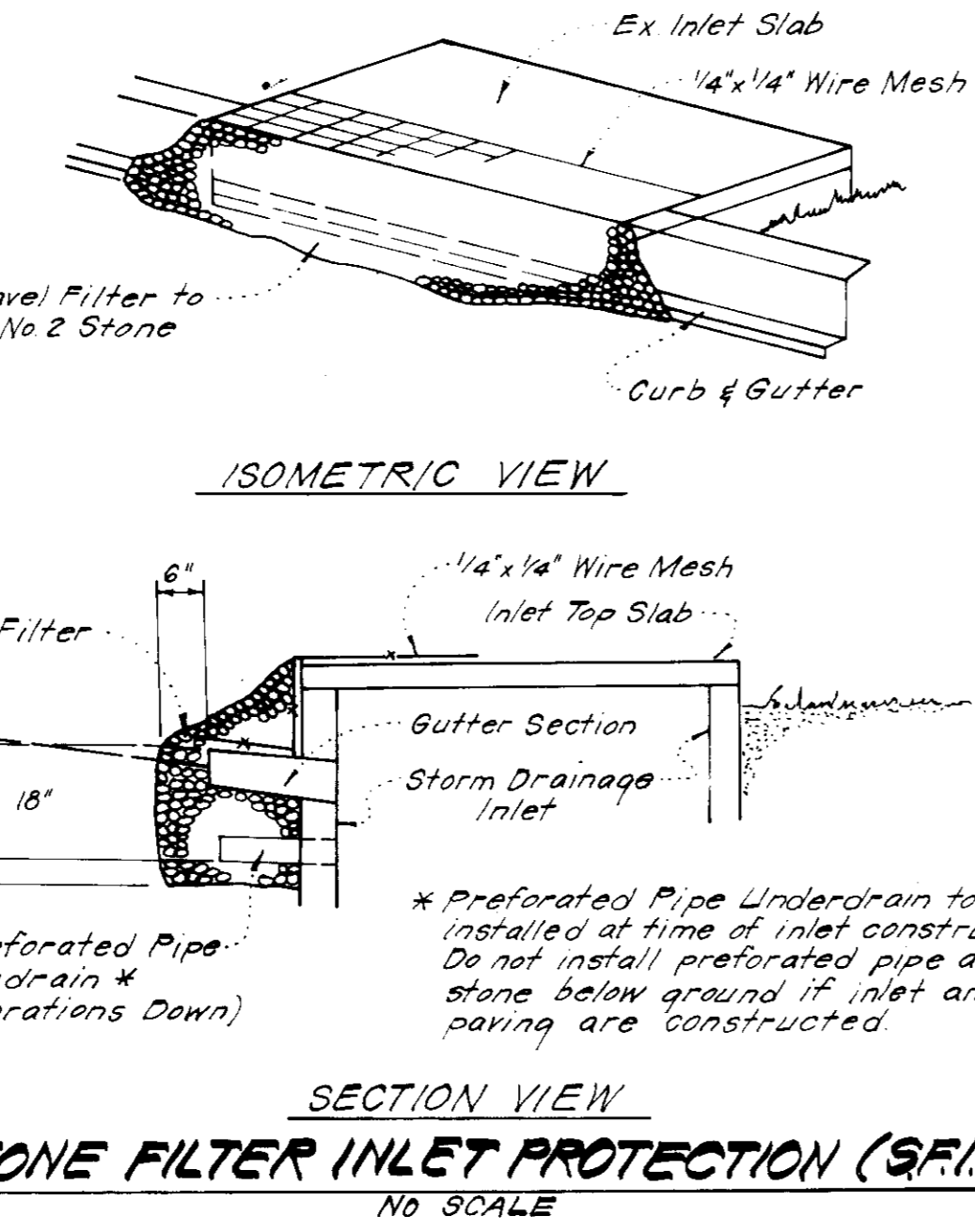
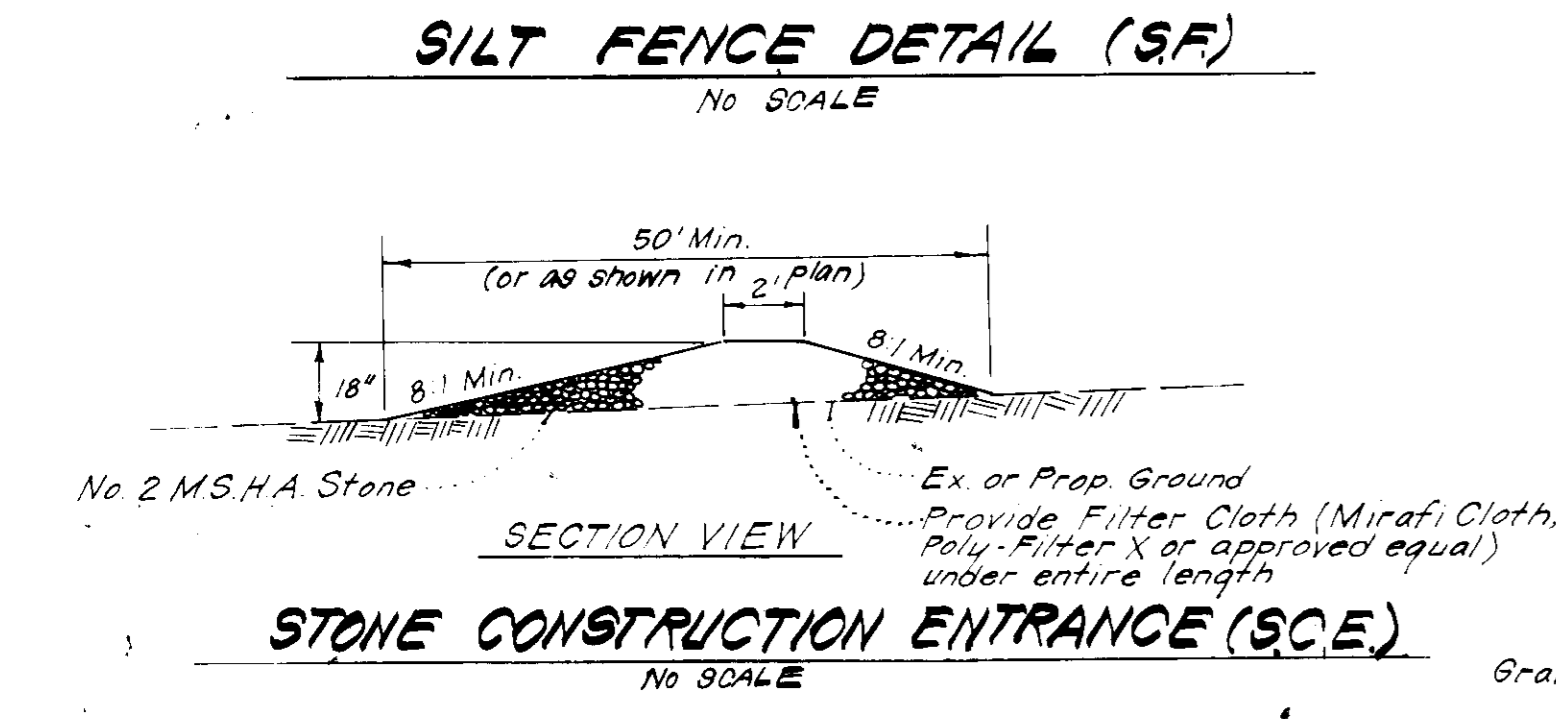
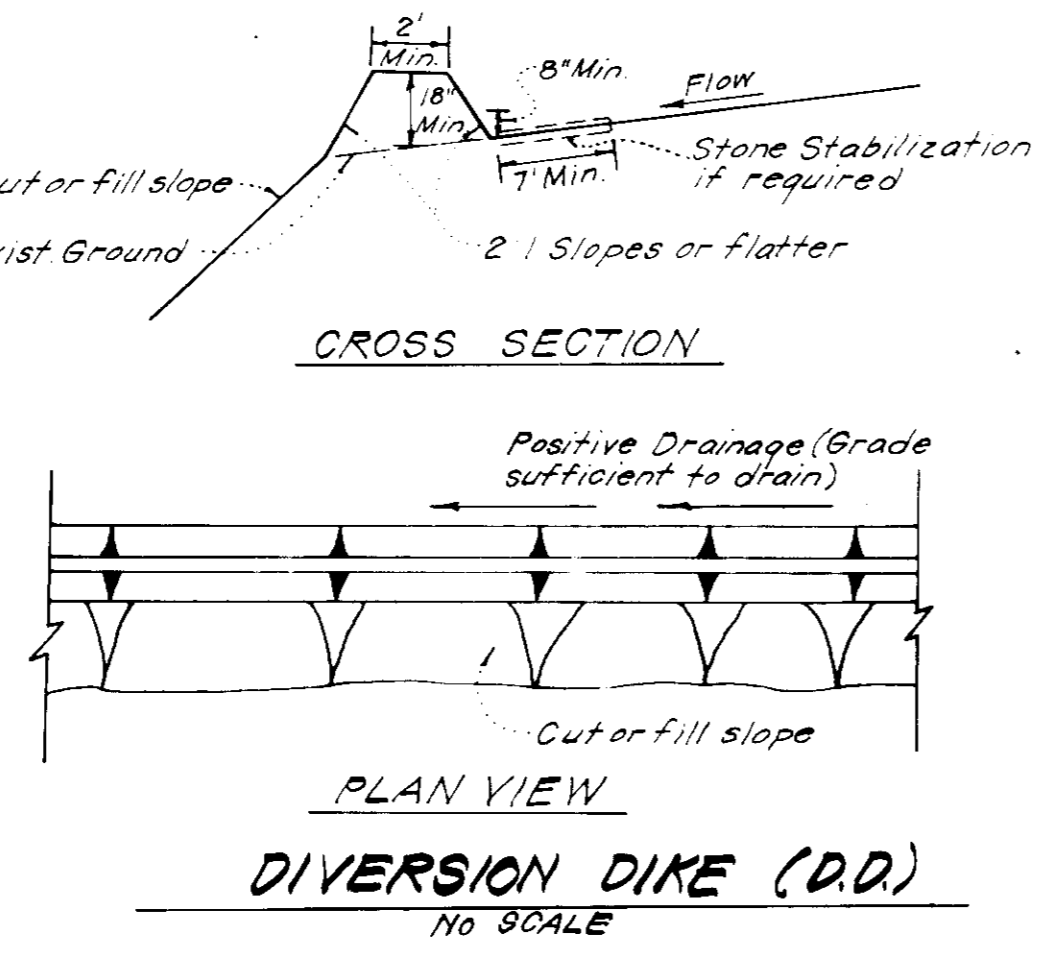
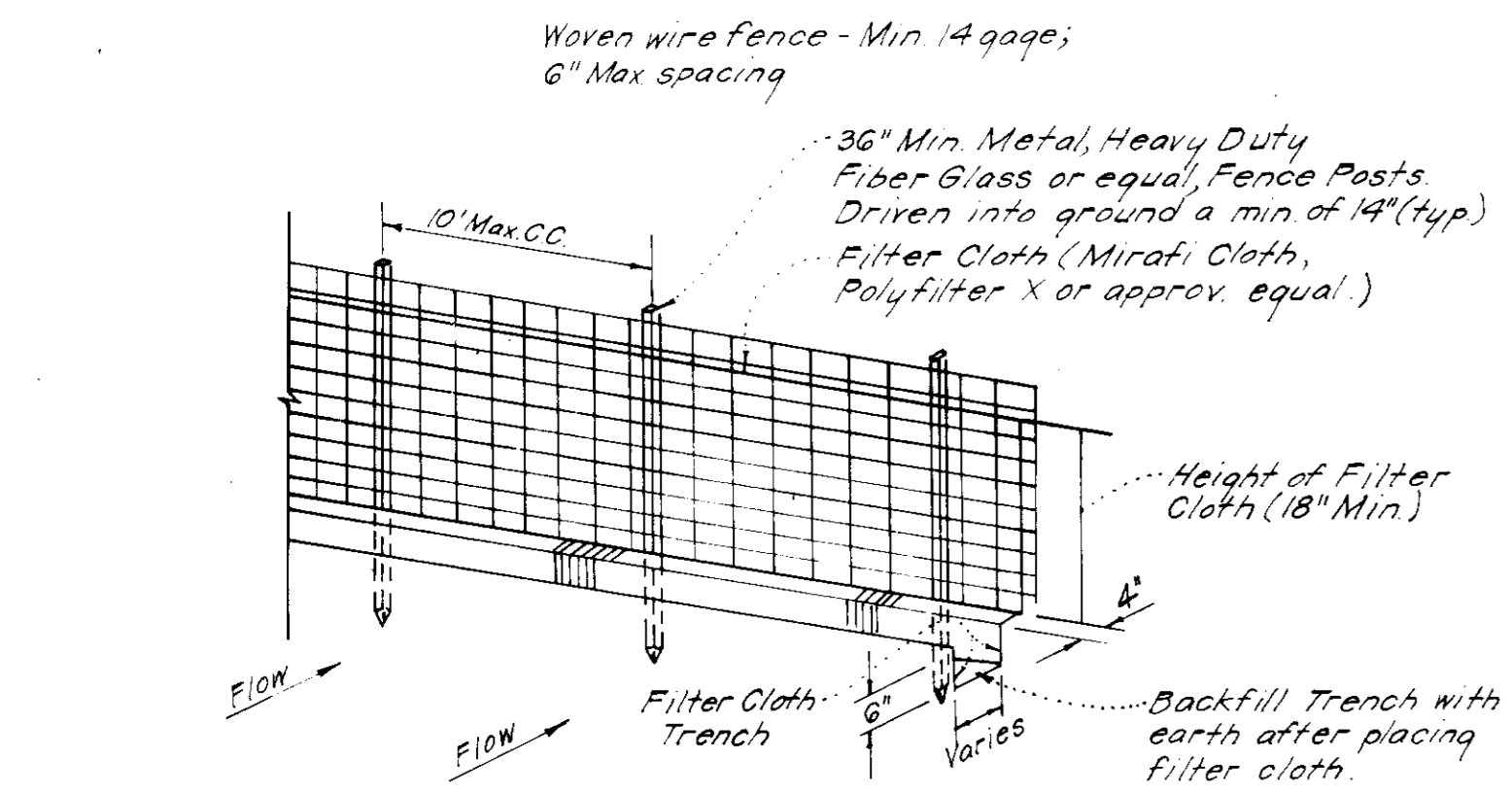
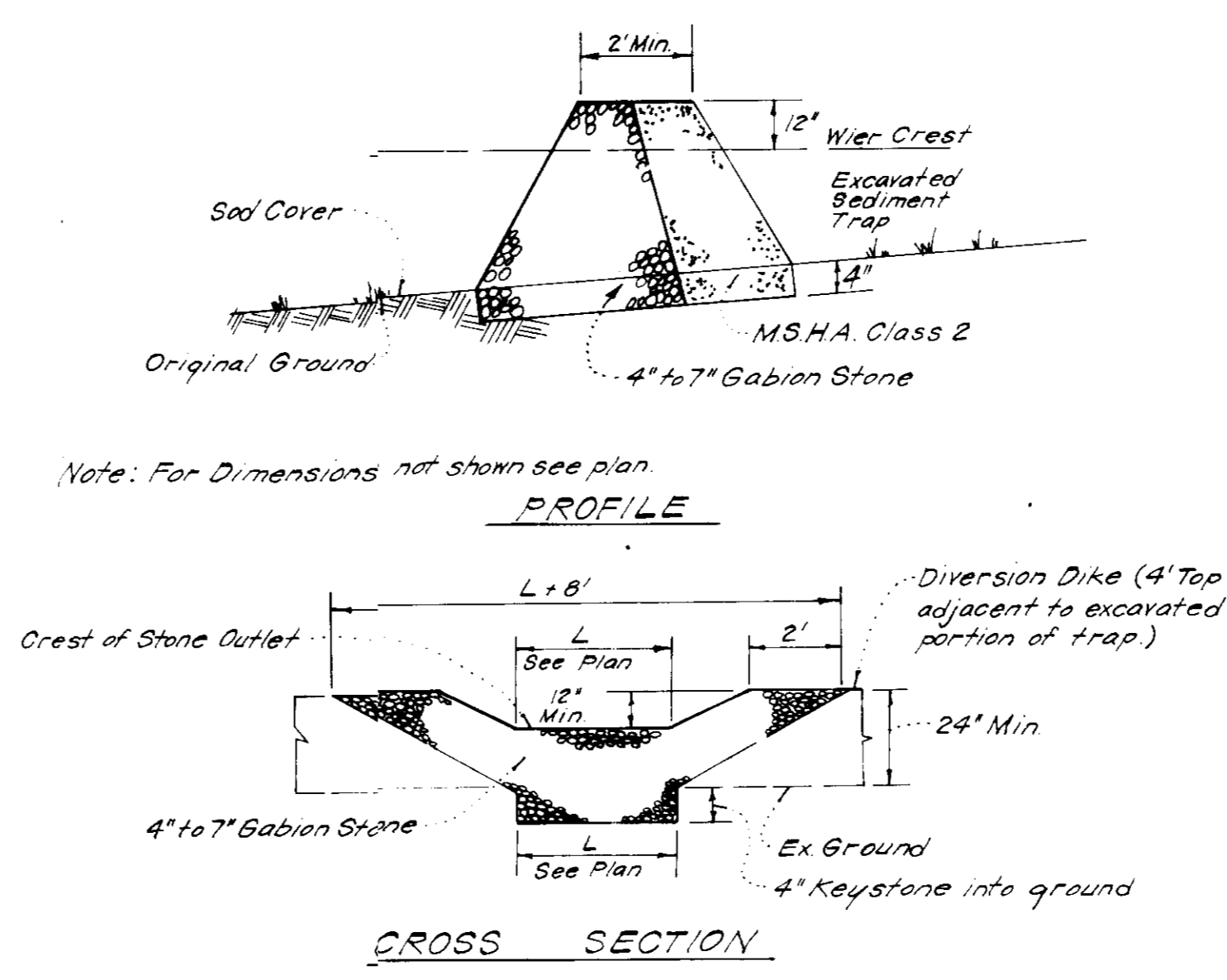
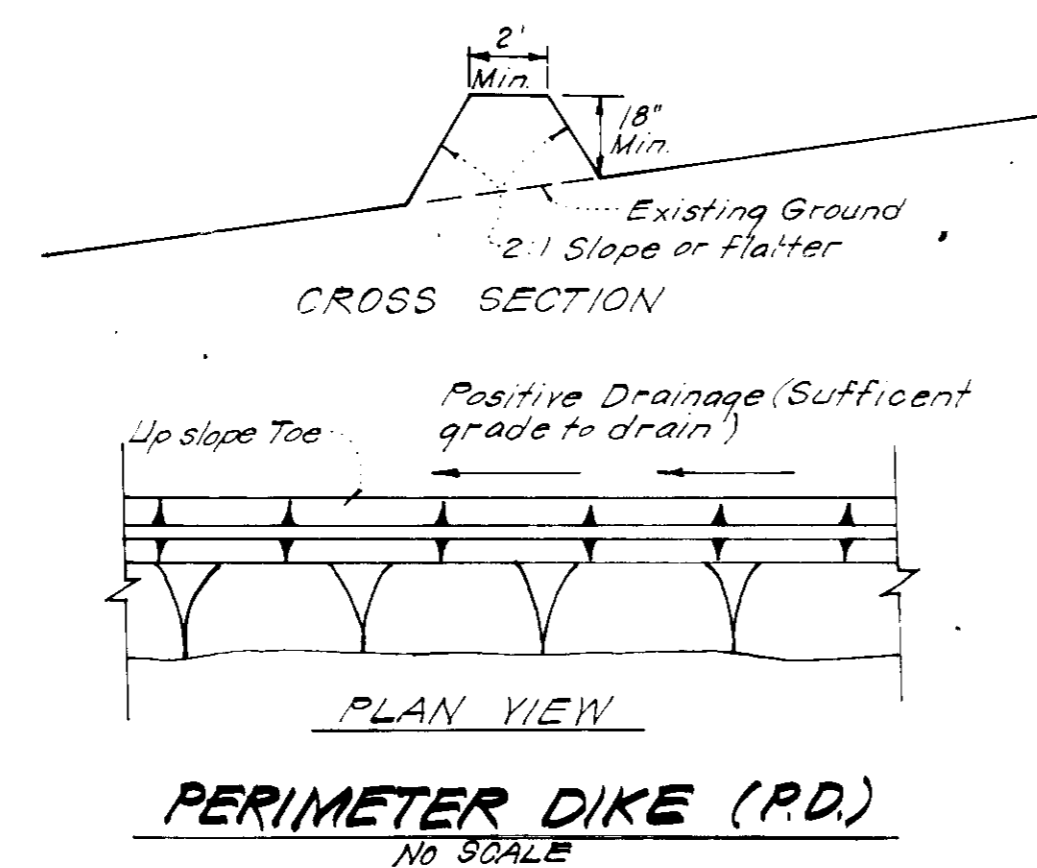
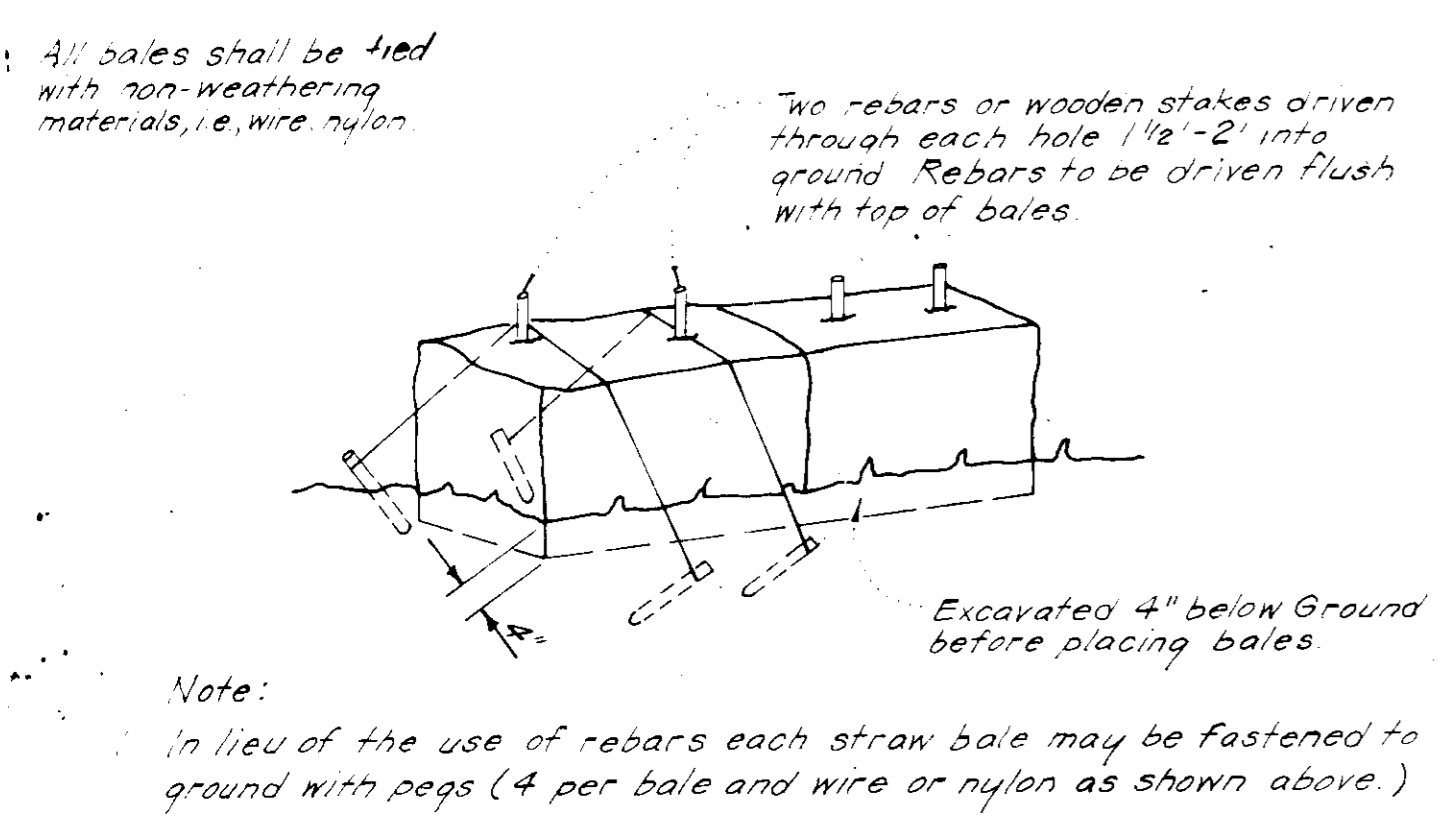


CLARK • FINEFROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS		(301) 593-3400
11315 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20904		
DESIGNED JLS	SEDIMENT & EROSION CONTROL PLAN LOTS 90 THRU 99, LOTS 107 THRU 110 AND 270 THRU 274 COLUMBIA VILLAGE OF KINGS CONTRIVANCE SECTION 2 AREA 3 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: The Ryland Group (Col. Division) V.O.M. Office Bldg. Suite 200 Columbia, Maryland, 21045	SCALE 1" = 30'
DRAWN K/W		DRAWING 40-5
CHECKED JLS		JOB NO. 82-040
DATE 10-28-82		FILE NO. 82-040-SE
S.D.P. - 83-43C		

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:
 - 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
 - Fertilizer - 10-10-10 applied at a rate of 23 lbs/1000 sf. Ground Agricultural Lime or Dolomitic Lime applied at a rate of 30 lbs/1000 sf.
 - 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.
 - 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 developer's 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 = **335** LF
- SITE ANALYSIS:

A. Total Area:	4.388 Acres
B. Area to be Roofed:	0.675 Acres
C. Area to be Paved:	0.336 Acres
D. Area to be Seeded:	2.495 Acres
E. Area Undisturbed:	0.882 Acres
- CONSTRUCTION SEQUENCE:
 - Install Sediment & Erosion Control Devices and Stabilize Diversion Dike.
 - Excavate for Foundations and Rough Grade.
 - Erect Structures, Driveways and Sidewalks.
 - 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.
- Stone Stabilization of the diversion dikes will be used if required by the Inspector in the field.



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
DATE: 1-17-83

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
DATE: 1-18-83

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE: 1-18-83

CHIEF BUREAU OF ENGINEERING
DATE: 1-18-83

Reviewed for Howard S.C.D. Name and meets Technical Requirements
Signature: [Signature] Date: 1/18/83
U.S. Soil Conservation Service
DISTRICT OFFICE AND SEDIMENT CONTROL DIVISION
DISTRICT OFFICE

Approved: [Signature] Date: 1-18-83

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 have a Certificate of Attendance at a Dept. of Natural Resources (Advanced) Training Program for the Control of Sediment and Erosion. I also authorize the project to be inspected by the Howard Soil Conservation District or their authorized agents, as are deemed necessary.
Signature of Developer/Builder: [Signature] Date: 1/29/82
Maurice M. Simpkins

ENGINEERS 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: [Signature] Date: 10-29-82
G. Neale Clark

CLARK • FINEFROCK & SACKETT
ENGINEERS • PLANNERS • SURVEYORS
11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 101-593-1401

DESIGNED: VLS. SCALE: As shown
DRAWN: R.M. DRAWING: 50F5
CHECKED: VLS. JOB NO: 82-040
DATE: 10-29-82 FILE NO: 82-040-SE

SEDIMENT & EROSION CONTROL PLAN
LOTS 30 THRU 99 AND 101 THRU 110 AND 210 THRU 274
COLUMBIA
VILLAGE OF KINGS CONTRIVANCE
SECTION 2 AREA 3
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
FOR: The Ryland Group, Inc (Dev. Div.)
V.O.M. OFFICE Bldg, Suite 200
Columbia, Maryland 21045

SDP-83-43C

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE: 12-20-82
[Signature]