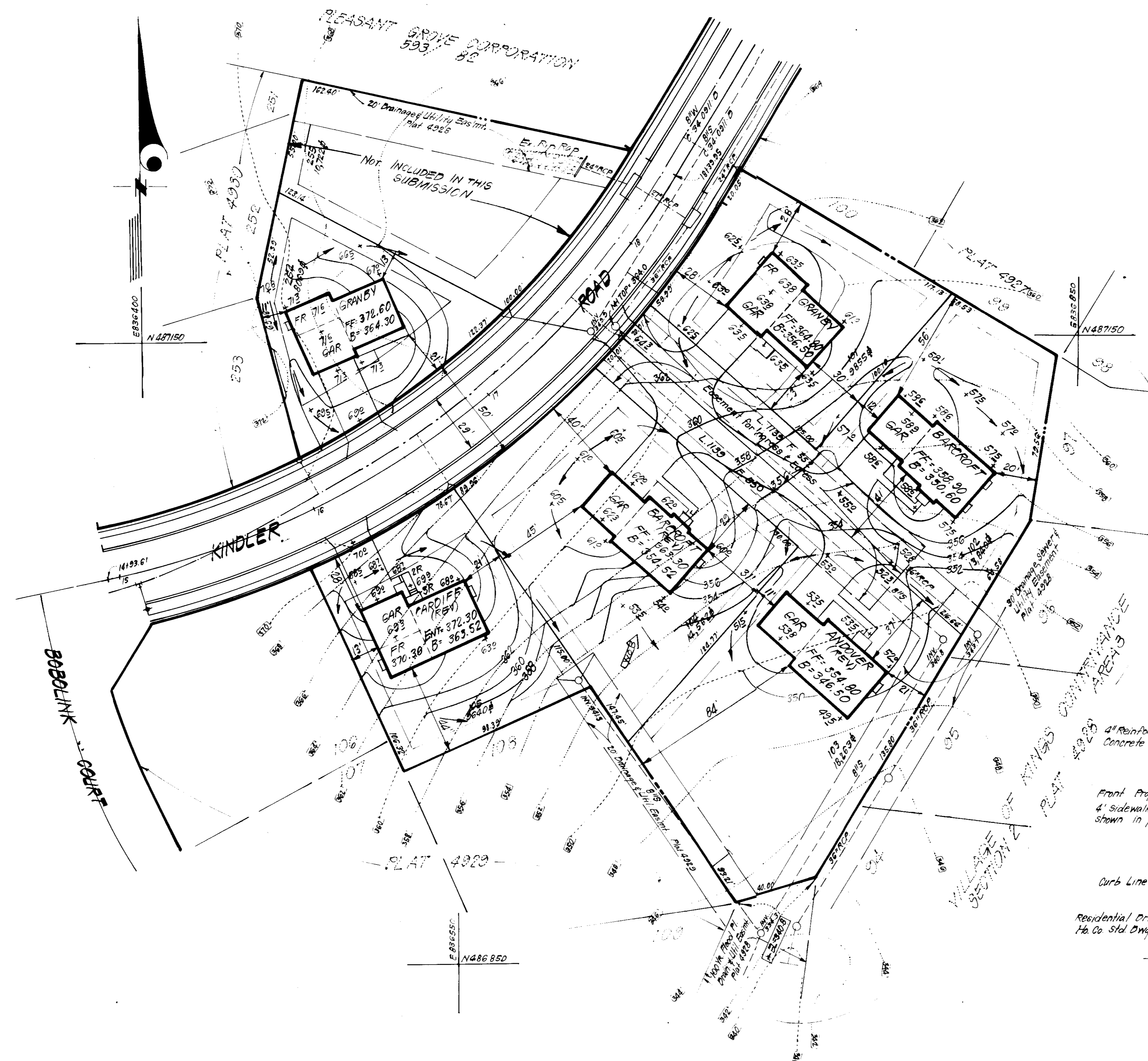
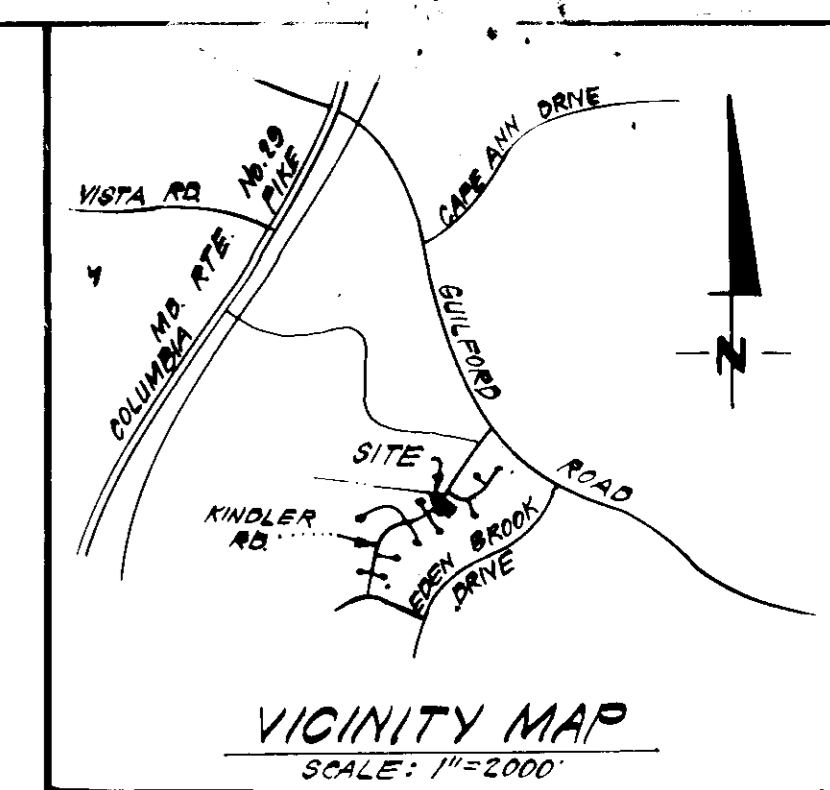


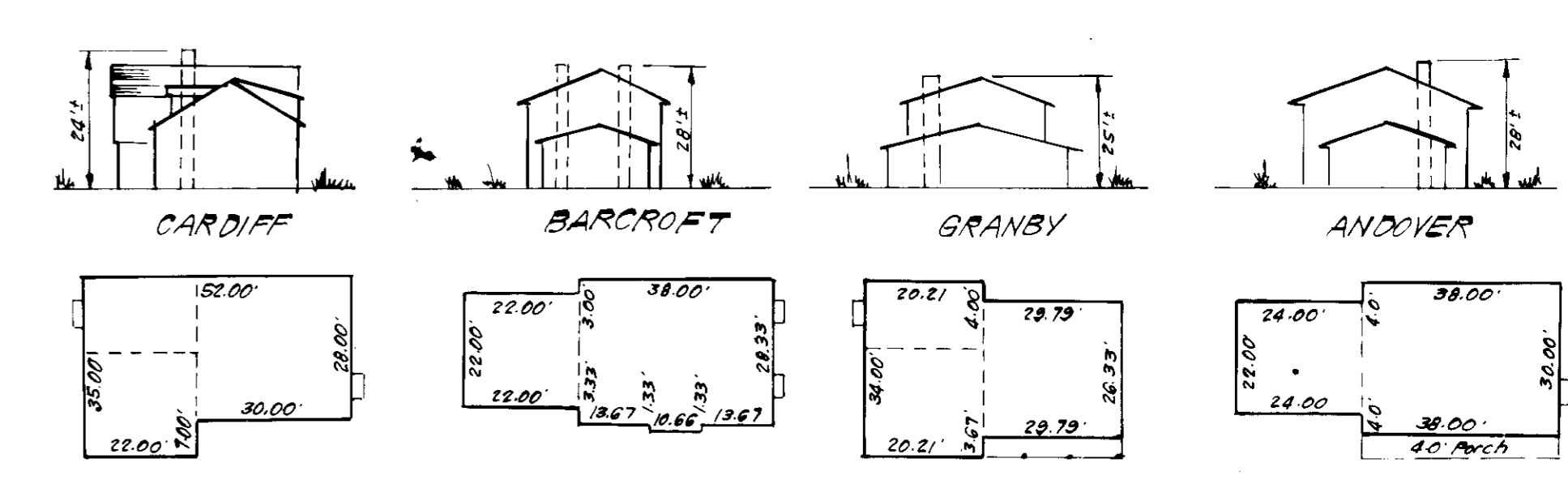
LEGEND:

- 1. Contour Interval 2 FT
- 2. Existing Contour 360
- 3. Proposed Contour 360
- 4. Spot Elevation 1605
- 5. Direction of Drainage
- 6. Walk Out Basement

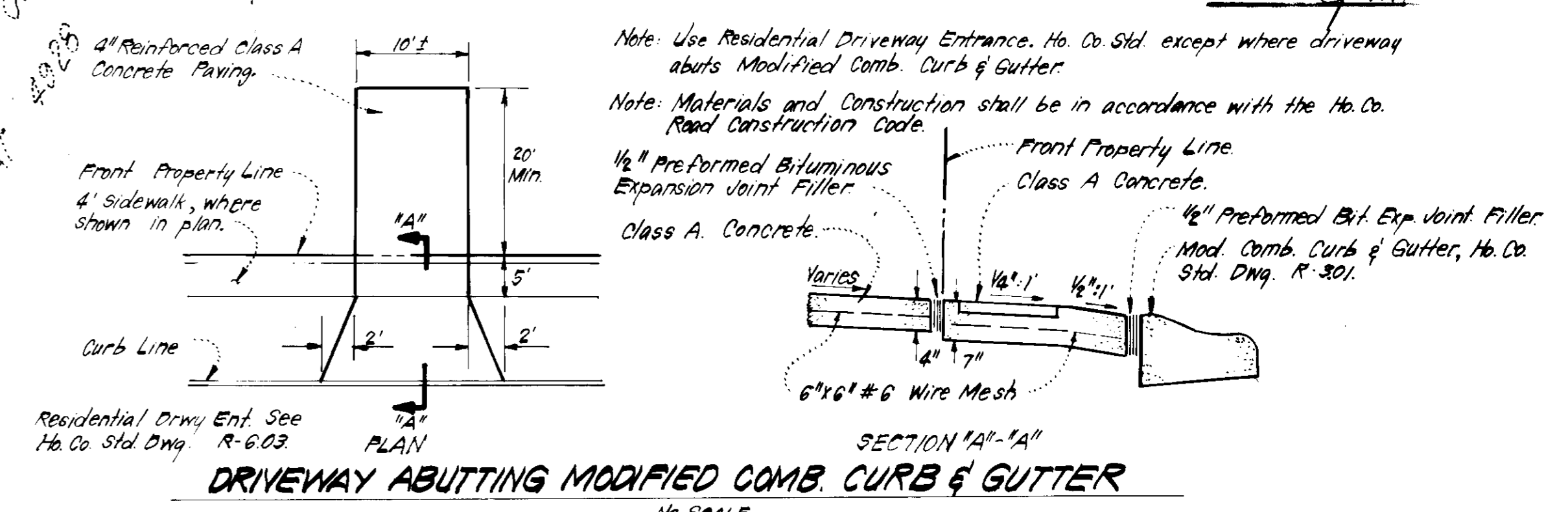


GENERAL NOTES:

1. The Land included in this plan is zoned New Town (S.F.M.D.)
2. The Lots shown on this plan are covered by Final Development Plan Phase 178-A-1, 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 1.704 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. Number of Lots: 6



APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 12-22-82
JMM



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

John W. Musselman
COUNTY HEALTH OFFICER
DATE 3/14/83

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

John W. Musselman
PLANNING DIRECTOR
DATE 3-21-83

CHIEF DIVISION OF LAND DEVELOPMENT & ZONING ADMIN.

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

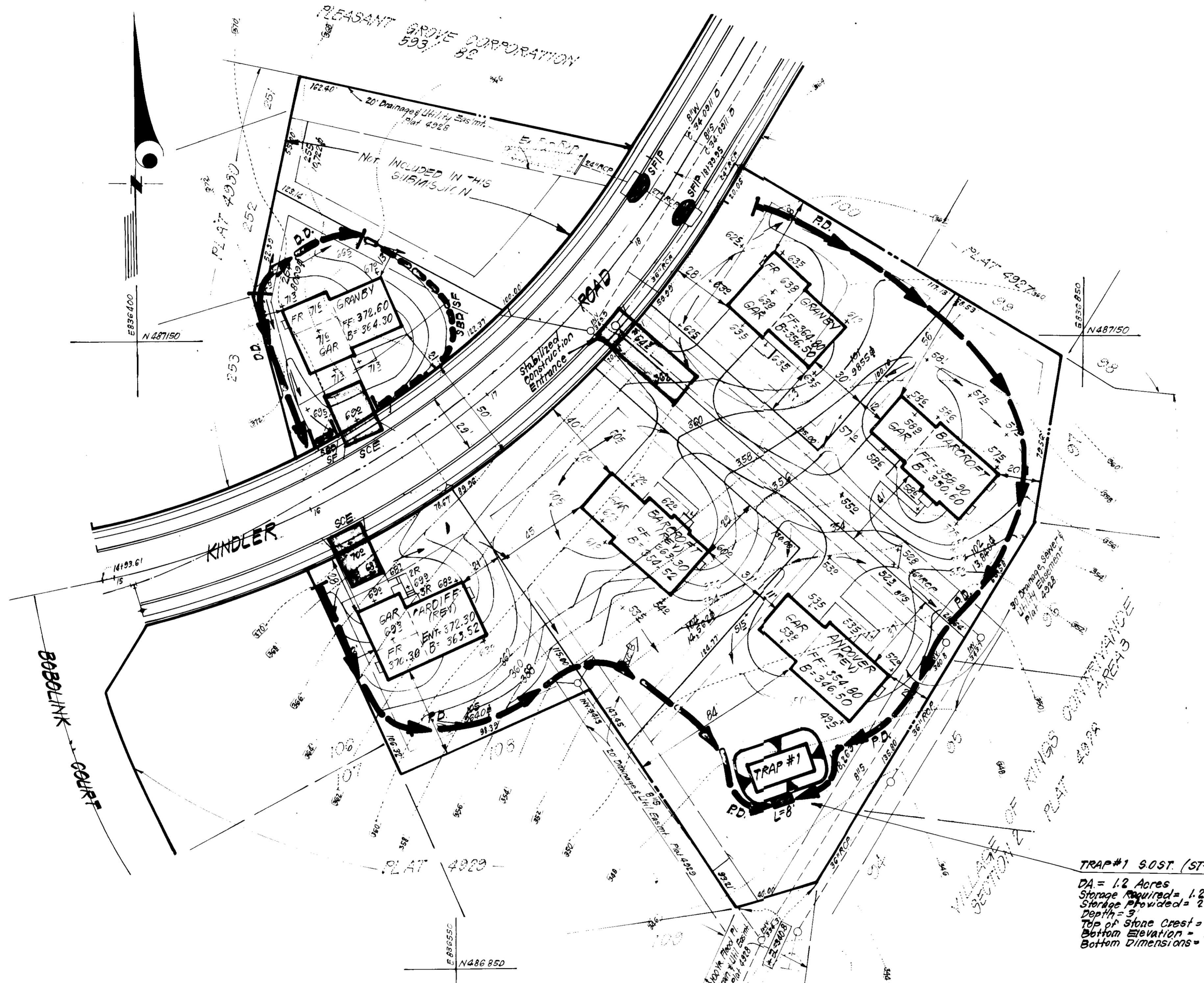
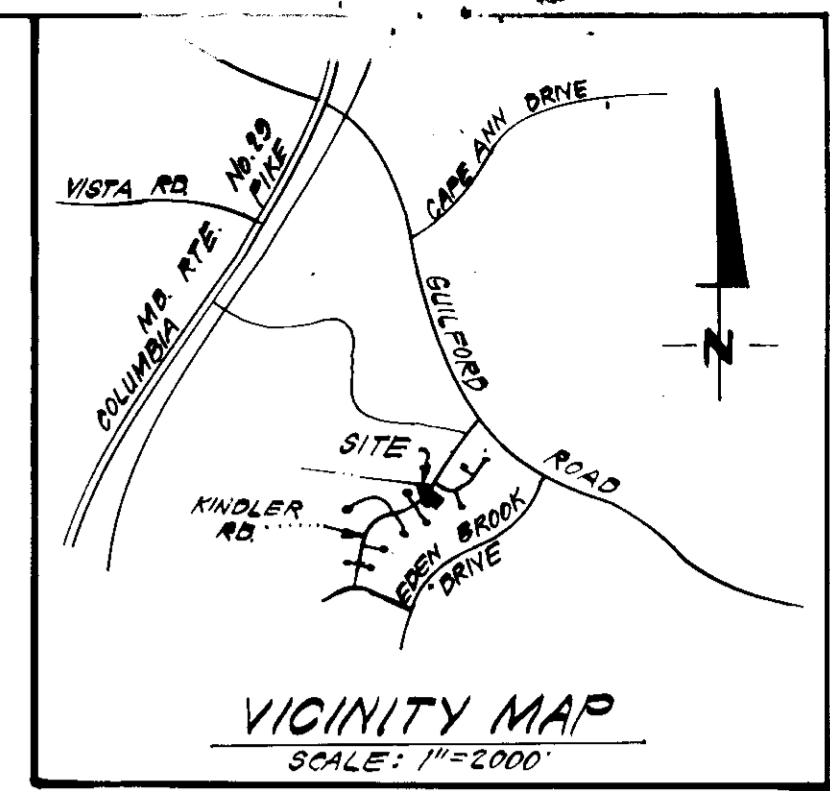
John W. Musselman
DIRECTOR
DATE 3-16-83

John W. Musselman
CHIEF BUREAU OF ENGINEERING
DATE 3-16-83

CLARK · FINEFROCK & SACKETT ENGINEERS · PLANNERS · SURVEYORS 11315 LOCKWOOD DRIVE · SILVER SPRING, MARYLAND 20904 · (301) 593-3400				
DESIGNED	J.M.E.	SITE DEVELOPMENT PLAN LOTS 101 THRU 105 & 254 COLUMBIA VILLAGE OF KINGS CONTRIVANCE SECTION 2 AREA 3 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: WINCHESTER HOMES, INC. 6305 IVY Lane, Suite 200 Greenbelt, Maryland 20770	SCALE	1"=30'
DRAWN	K.I.W.		DRAWING	10F3
CHECKED	J.M.E.	JOB NO.	82-039	
DATE	Nov, 1982	FILE NO.	82-039-X	

SDP-83-61c

- LEGEND:**
- 1. Contour Interval 2 FT
 - 2. Existing Contour 600
 - 3. Proposed Contour 360
 - 4. Spot Elevation 605
 - 5. Direction of Drainage
 - 6. Walk Out Basement
 - 7. Perimeter Dike
 - 8. Diversion Dike
 - 9. Straw Bale Dike or Silt Fence
 - 10. Stone Filter Inlet Protection
 - 11. Stone Construction Entrance
 - 12. Sediment Trap



TRAP #1 S.O.S.T. (ST-3)
 DA = 1.2 Acres
 Storage Required = 1.2(1800) = 2160 c.f.
 Storage Provided = 2160 c.f.
 Depth = 3'
 Top of Stone Crest = 348.0
 Bottom Elevation = 345.0
 Bottom Dimensions = 30' x 14'



APPROVED
 DIVISION OF LAND DEVELOPMENT &
 ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE 12-22-82
 JWM

PLAT REF: PLAT 4928

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: 3-18-83

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

DIRECTOR: _____ DATE: 3-16-83

CHIEF BUREAU OF ENGINEERING: _____ DATE: 3-14-83

APPROVED FOR HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

James M. Selin 3-14-83
 Date

Approved: _____ 3-14-83
 Date

ENGINEER'S CERTIFICATE

I hereby certify that the design, construction and maintenance of the project will be done in accordance with the requirements of the Howard County Department of Public Works.

James H. Sylvia 11/7/82
 Date
 JAMES H. SYLVIA

G. Nelson Clark 11-17-82
 Date
 G. Nelson Clark

CLARK · FINEFROCK & SACKETT
 ENGINEERS · PLANNERS · SURVEYORS

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

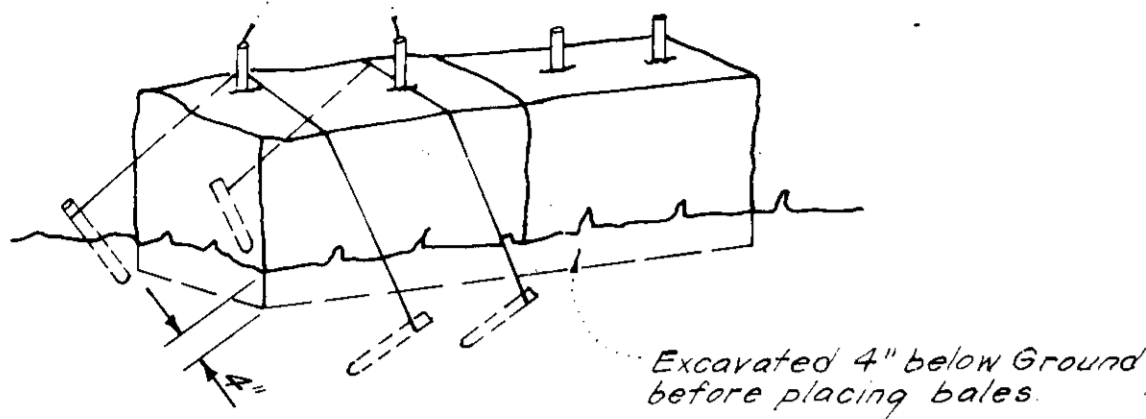
DESIGNED JLS	SEDIMENT & EROSION CONTROL PLAN LOTS 101 THRU 105 & 254 COLUMBIA VILLAGE OF KINGS CONTRIVANCE SECTION 2 AREA 3 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: WINCHESTER HOMES, INC. 6305 Ivy Lane, Suite 200 Greenbelt, Maryland 20770	SCALE 1"=30'
DRAWN K.A.H.		DRAWING 2 OF 3
CHECKED JLS		JOB NO. 82-039
DATE Nov, 1982		FILE NO. 82-039-SE

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 90 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 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 = 115 L.F.
- SITE ANALYSIS:**
 - Total Area: 1.704 Acres
 - Area to be Roofed: 0.221 Acres
 - Area to be Paved: 0.159 Acres
 - Area to be Seeded: 0.242 Acres
 - Area Undisturbed: 0.392 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.

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

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

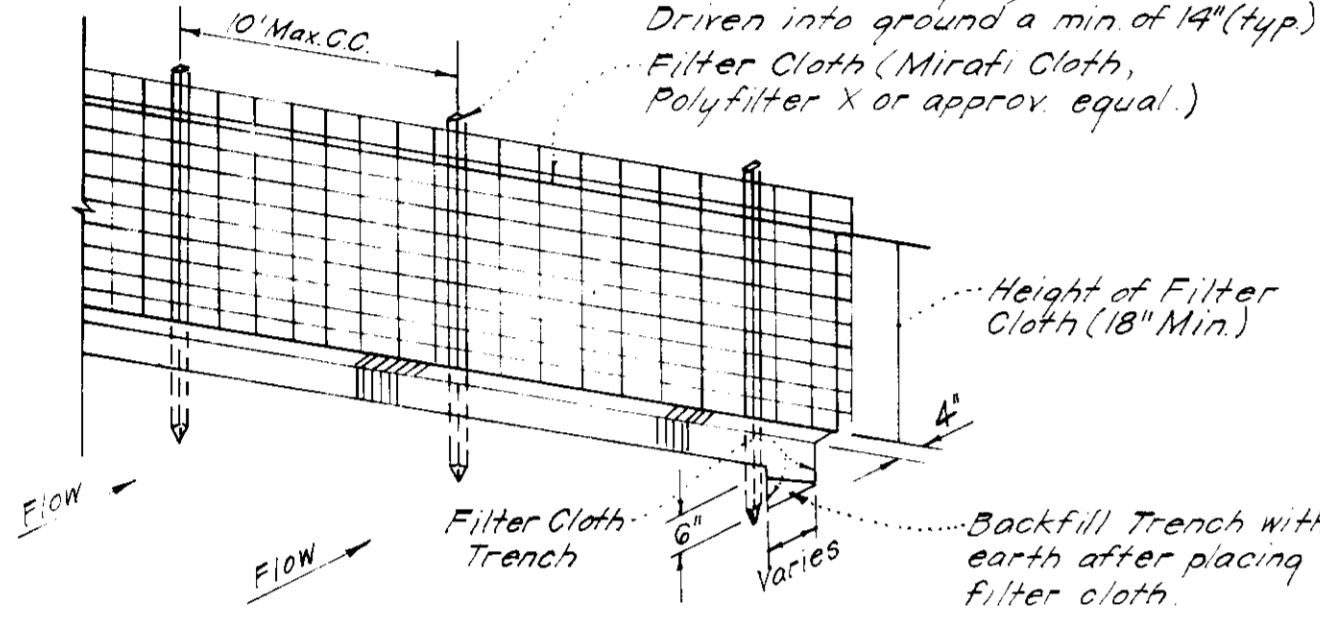


Note: In lieu of the use of rebars each straw bale may be fastened to ground with pegs (4 per bale and wire or nylon as shown above).

STRAW BALE DIKE DETAIL (SBD)
No SCALE

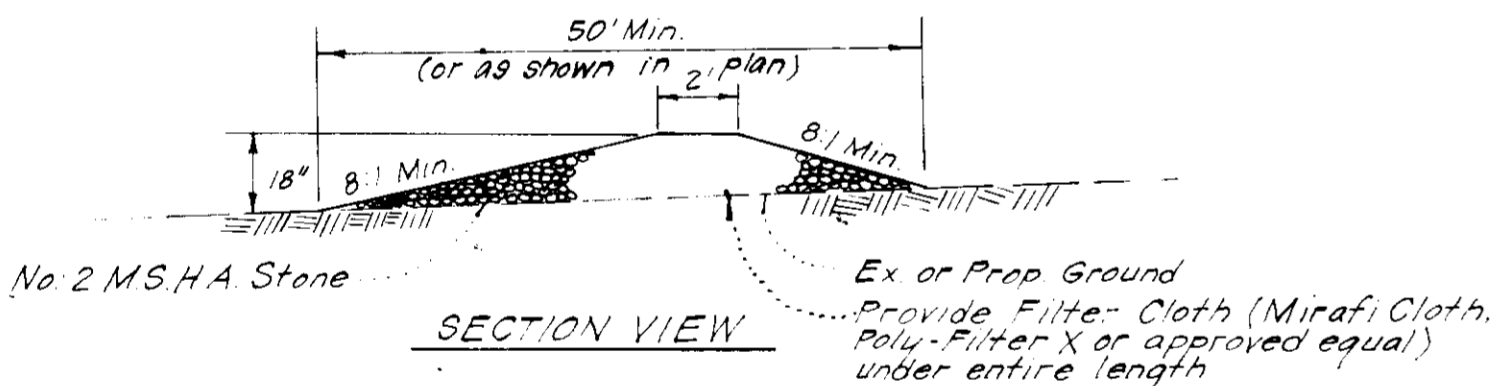
Woven wire fence - Min 14 gage; 6" Max spacing.

36" Min. Metal, Heavy Duty Fiber Glass or equal, Fence Posts Driven into ground a min of 14" (typ).
Filter Cloth (Mirafi Cloth, Polyfilter X or approx. equal)

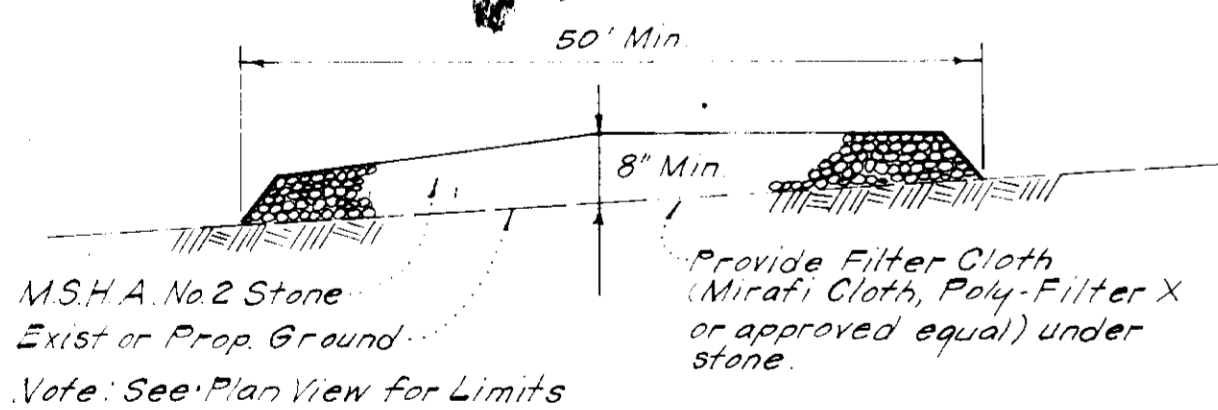


Notes:
1. Woven Wire Fence to be fastened securely to fence posts by use of wire ties.
2. Filter Cloth to be fastened securely to Woven Wire, by use of wire ties spaced every 24" x 24".

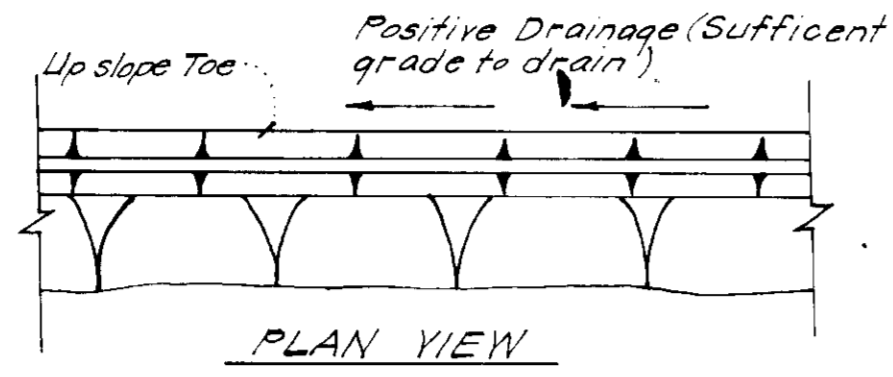
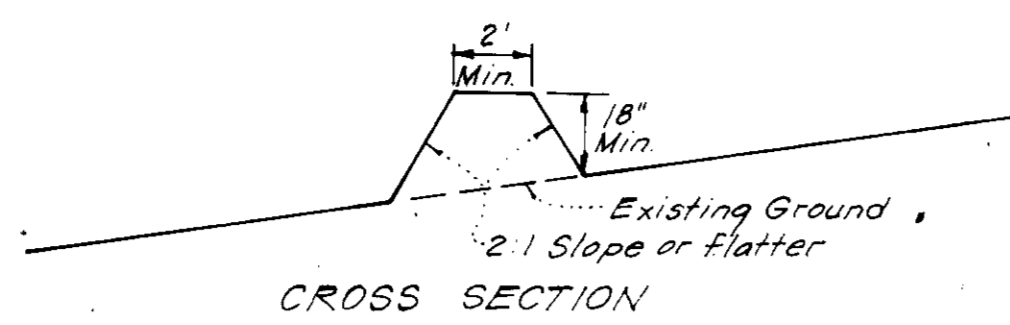
SILT FENCE DETAIL (SF)
No SCALE



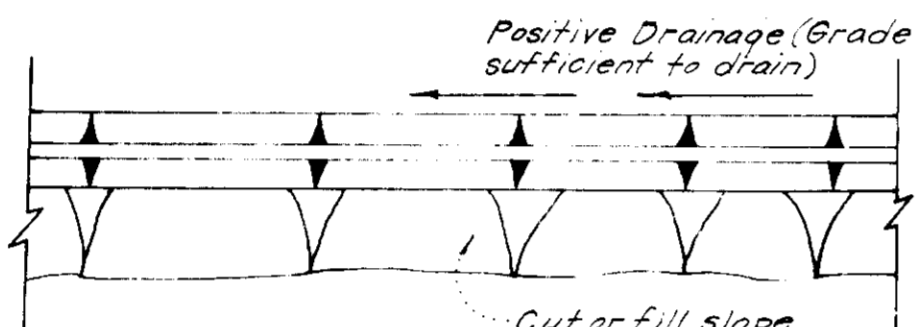
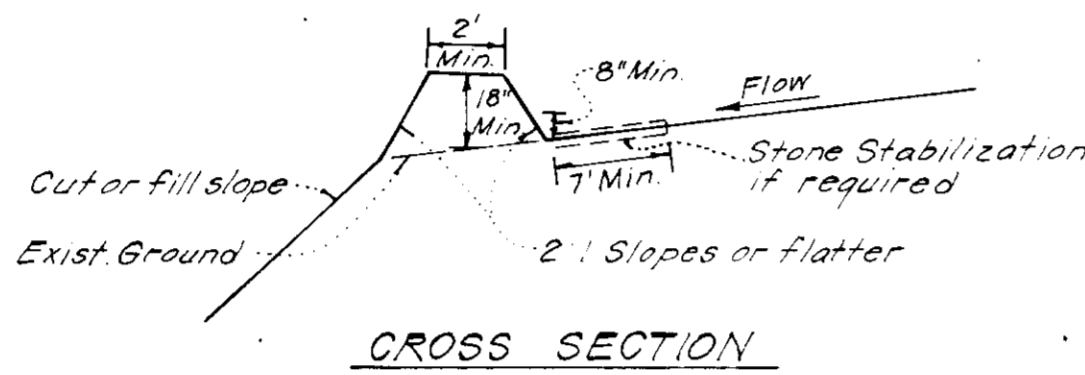
STONE CONSTRUCTION ENTRANCE (SCE)
No SCALE



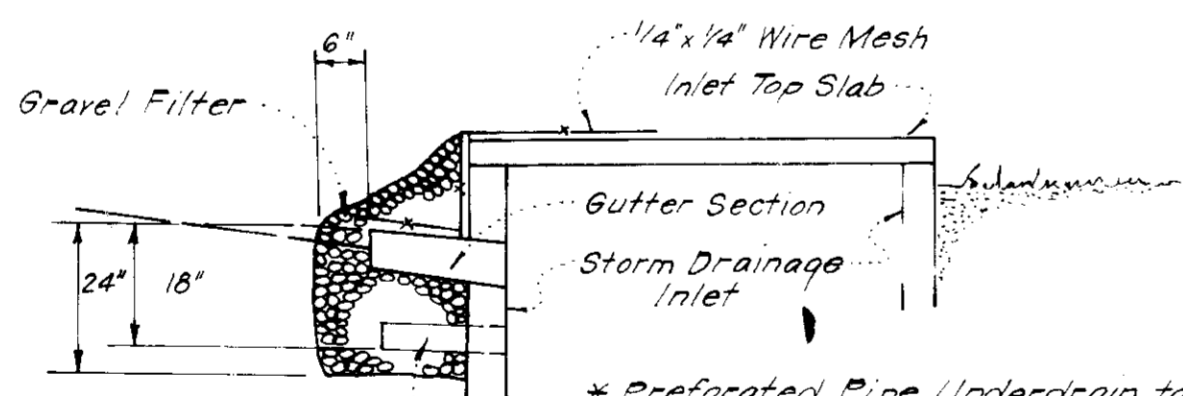
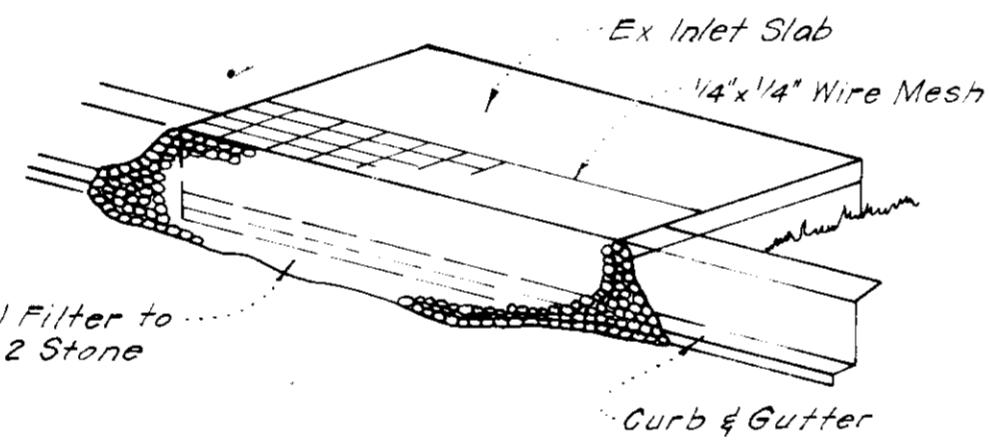
STABILIZED CONSTRUCTION ENTRANCE
No SCALE



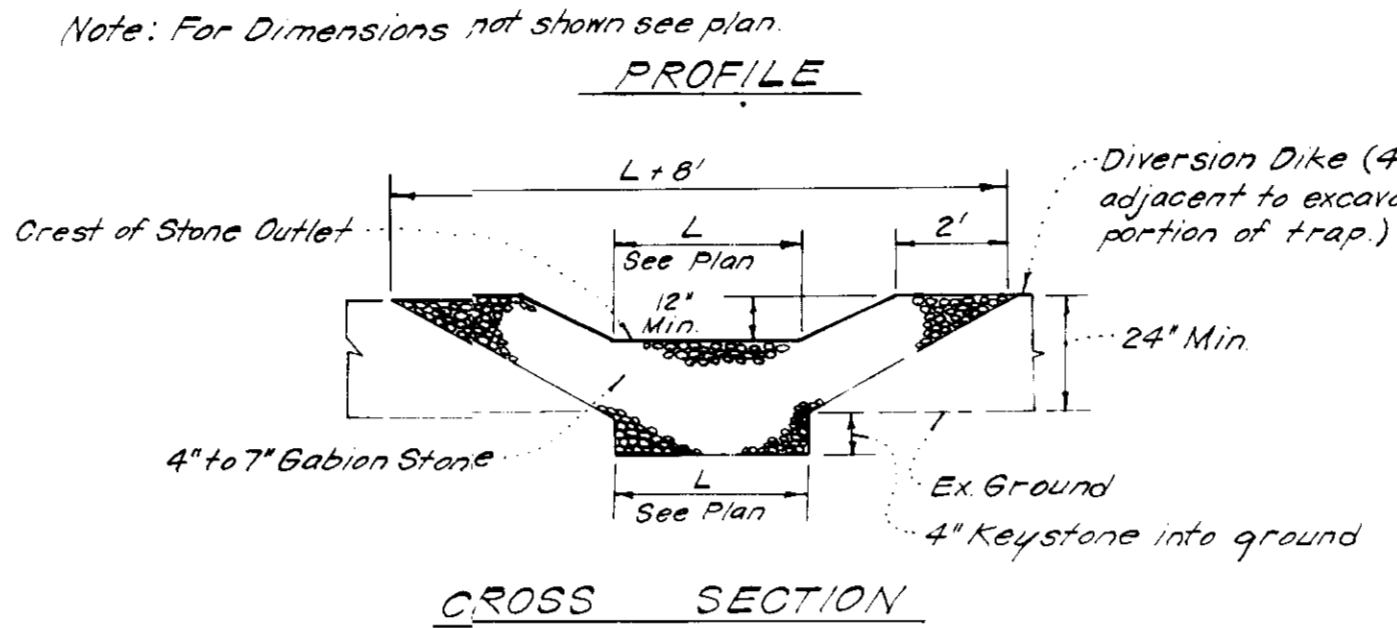
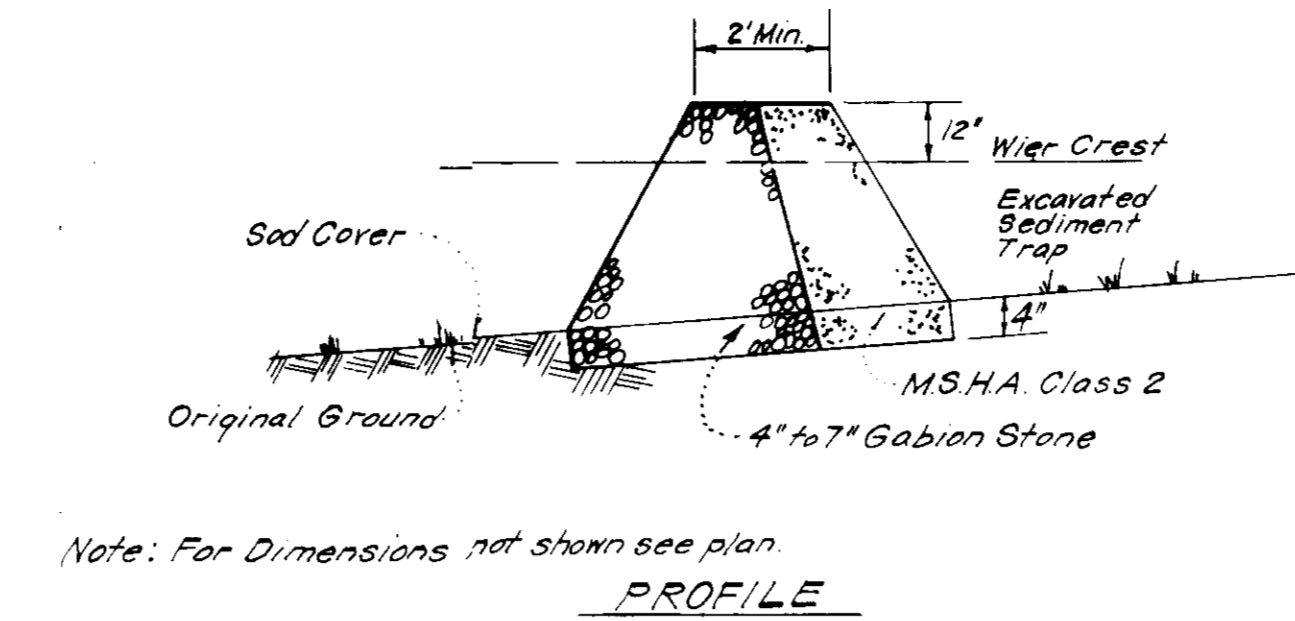
PERIMETER DIKE (P.D.)
No SCALE



DIVERSION DIKE (D.D.)
No SCALE

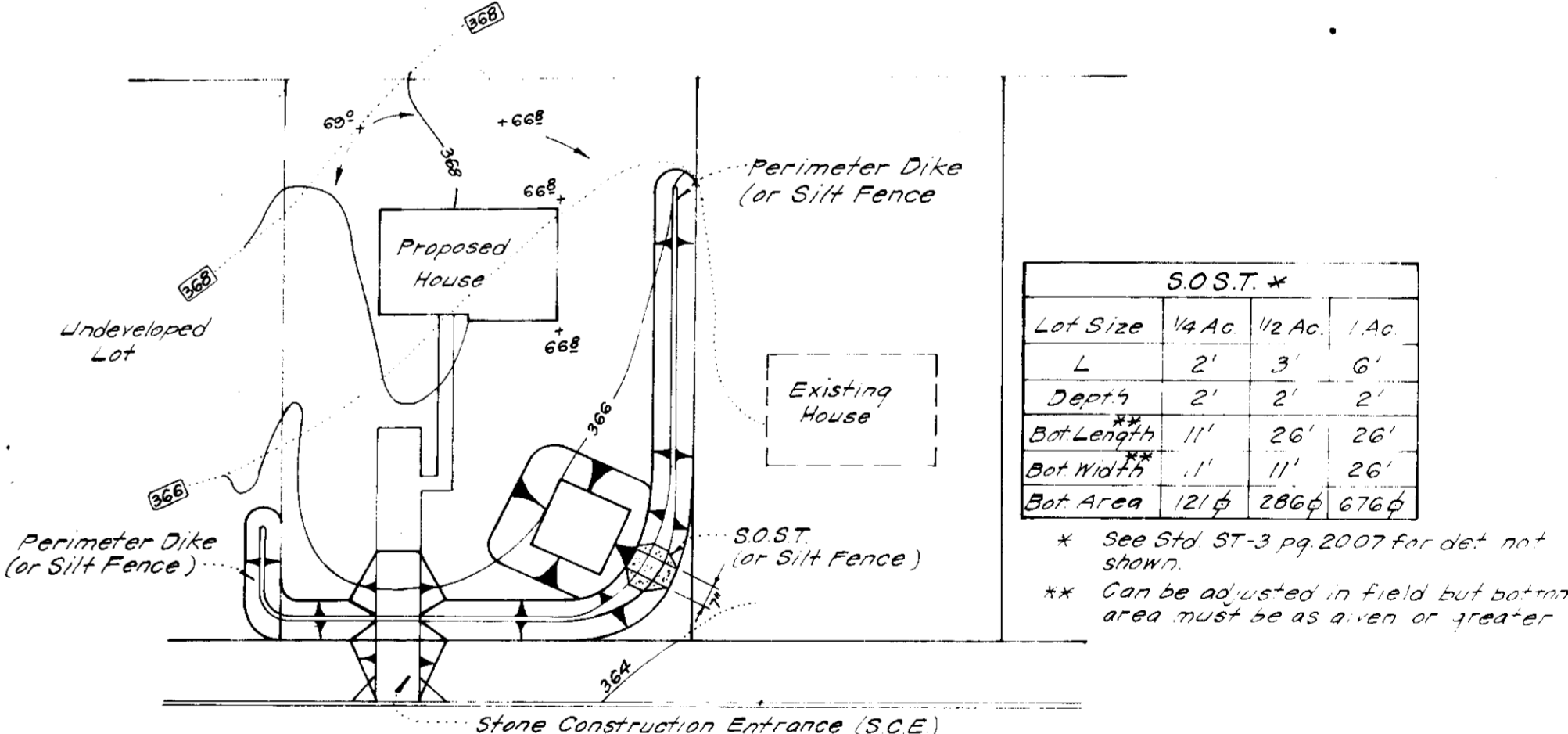


STONE FILTER INLET PROTECTION (S.F.I.P.)
No SCALE



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

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



SINGLE LOT SEDIMENT CONTROL PLAN
No SCALE

S.O.S.T.*			
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	21 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

COUNTY HEALTH OFFICER: [Signature] DATE: 3-18-83

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING

PLANNING DIRECTOR: [Signature] DATE: 3-18-83

CHIEF DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION

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

DIRECTOR: [Signature] DATE: 3-16-83

CHIEF BUREAU OF ENGINEERING: [Signature] DATE: 3-16-83

Reviewed for: Howard S.C.D. Name: James H. Sylvia Date: 3-14-83

meets Technical Requirements

U.S. Soil Conservation Service

DATE: 3-14-83

APPROVED BY THE HOWARD SOIL CONSERVATION DISTRICT

[Signature] Date: 3-14-83

EX-103 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 all responsible personnel involved in the construction of this project have received a Certificate of Attendance at a Dept. of Planning and Zoning approved Training Program for the County of Howard and that I also authorize personally on site inspection by the Howard Soil Conservation District or their authorized agents, as is deemed necessary.

[Signature] Date: 11/17/82

JAMES H. SYLVIA

ENGINEER'S CERTIFICATE

I hereby certify that this plan for Erosion and Sediment Control represents a practical and feasible method of controlling erosion and sedimentation in accordance with the requirements of the Howard Soil Conservation District.

[Signature] Date: 11-17-82

G. Nelson Clark

PLAT REF: PLAT 4928

CLARK • FINEPROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS

11315 LOCKWOOD DRIVE

DESIGNED: JLS
DRAWN: K/TW
CHECKED: JLS
DATE: Nov. 1982

SCALE: As Shown
DRAWING: 30F3
JOB #: 82-039
DATE: 82-039 SE

FOR: WINCHESTER HOMES, INC. 6305 Ivy Lane, Suite 200 Greenbelt, Md. 20770

APPROVED DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION HOWARD COUNTY, MARYLAND DATE: 12-22-82