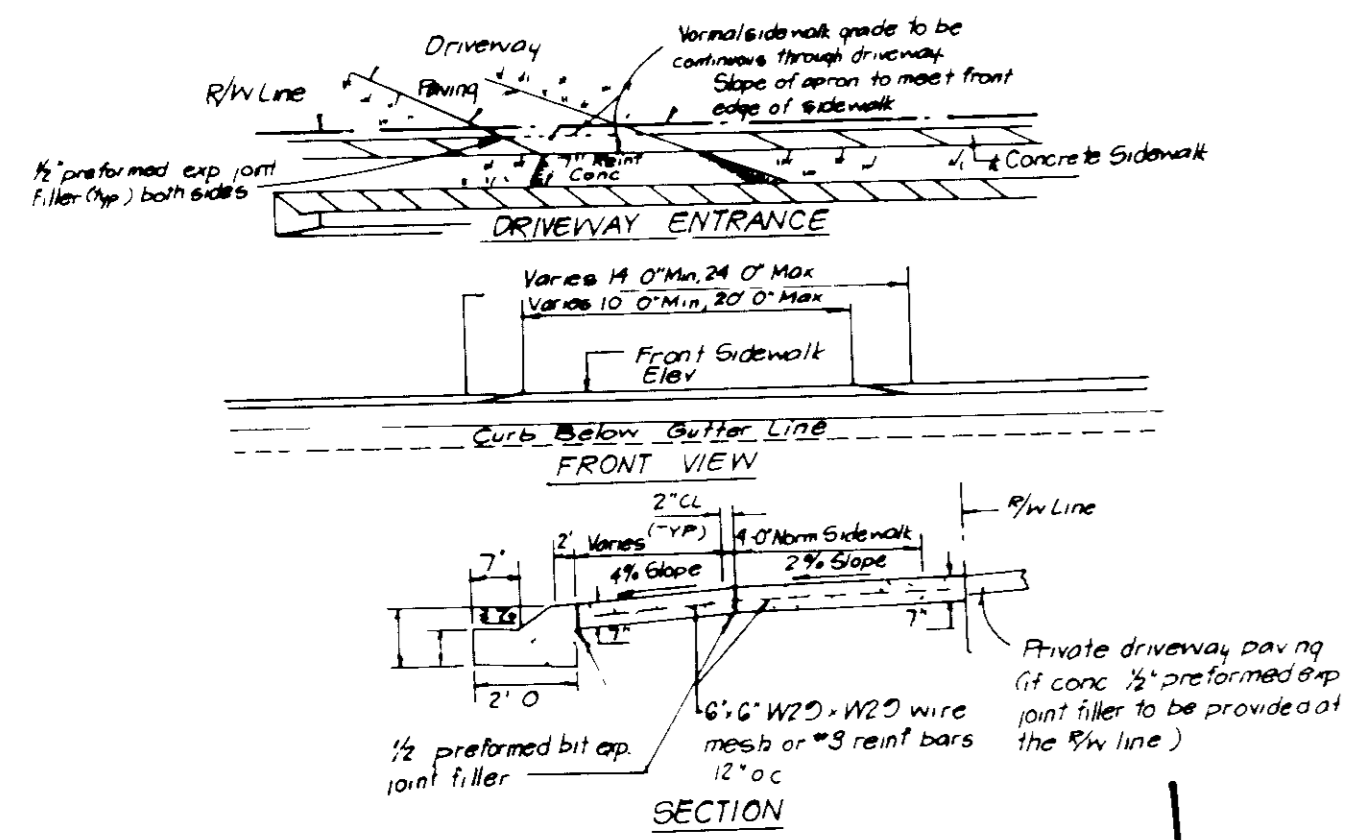
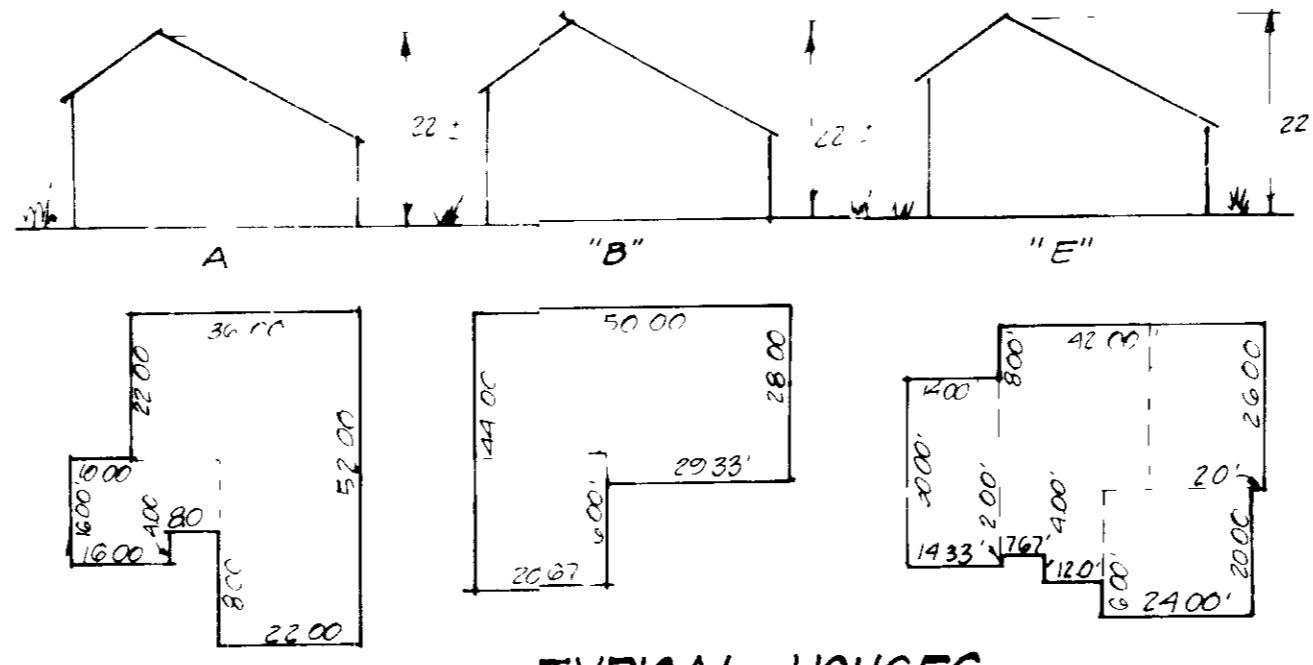


**DRIVEWAY ABUTTING CLOSED SECTION WITHOUT CONCRETE SIDEWALK**

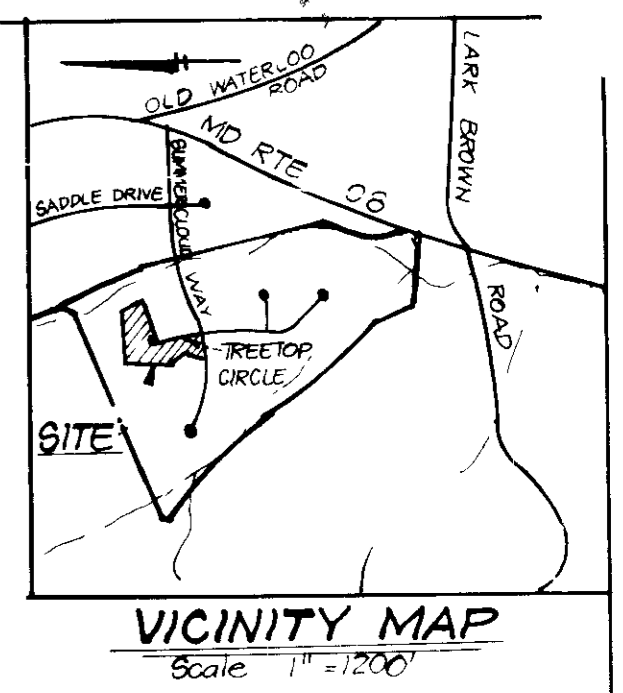


**DRIVEWAY ABUTTING CLOSED SECTION WITH MODIFIED COMB CURB & GUTTER & SIDEWALK**



**TYPICAL HOUSES**  
Scale: 1/4\"/>

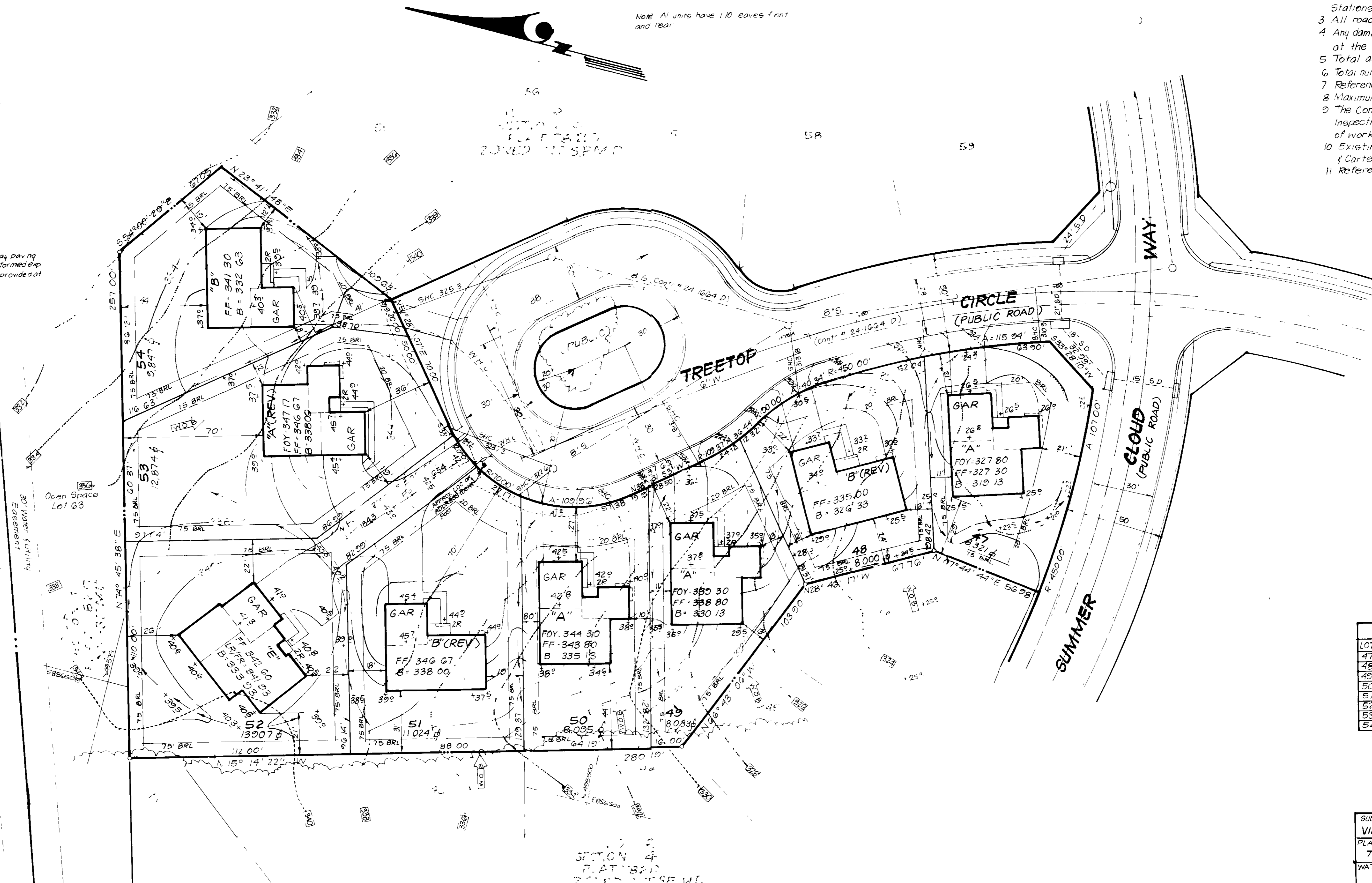
Note: All units have 110 leaves front and rear.



**VICINITY MAP**  
Scale: 1\"/>

**GENERAL NOTES**

1. Subject proper Zoned NT 6 F M D per comprehensive zoning plan dated 8-2-85
2. The coordinates shown hereon are based on the MD State Grid System and derived from the following Ho County Stations 2544002 and 2544008
3. All roads are public and existing.
4. Any damage to county owned rights of way to be corrected at the Developer's expense
5. Total area included 1.890 Ac
6. Total number of lots 8
7. Reference Final Development Plan Ph 197 part 1
8. Maximum Lot Coverage is 30%
9. The Contractor or Developer shall contact the Construction Inspection/Survey Division, 24 hrs in advance of commencement of work at 792-2630
10. Existing topo taken from plans prepared by F. Sner, Collins & Carter, Inc.
11. Reference file numbers 587-30, P87-60, F88-76.



**LEGEND:**

- Contour Interval 2 Ft
- Existing Contour (solid line)
- Proposed Contour (dashed line)
- Spot Elevation +10'
- Direction of Drainage (arrow)
- Trees to be saved (circle with 'X')
- Walk Out Basement (square with 'X')

**ADDRESS CHART**

LOT#	STREET	ADDRESS
47	G401	TREETOP CIRCLE
48	G405	
49	G409	
50	G413	
51	G417	
52	G421	
53	G425	
54	G420	TREETOP CIRCLE

SUBDIVISION NAME		COLUMBIA	SECT./AREA	4	LOTS	47-54
VILLAGE OF LONGREACH						
PLAT #	BLOCK #	ZONE	TAX MAP	ELEC DIST	CENSUS TR	
7820	13	NT 6 F M D	37	G 11	6065 02	
WATER CODE		SEWER CODE				
E08		3490000		.346 0000		

6-16-88  
LKS

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

DATE: 7-19-88

**APPROVED FOR HOWARD COUNTY OFFICE OF PLANNING & ZONING**

DATE: 7-25-88

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

DATE: 7-12-88

**CLARK • FINEFROCK & SACKETT, INC.**  
ENGINEERS • PLANNERS • SURVEYORS

7135 MINSTREL WAY • COLUMBIA MD 21045 • (301) 381-7500 - BALTO • (301) 621-8100 - WASH

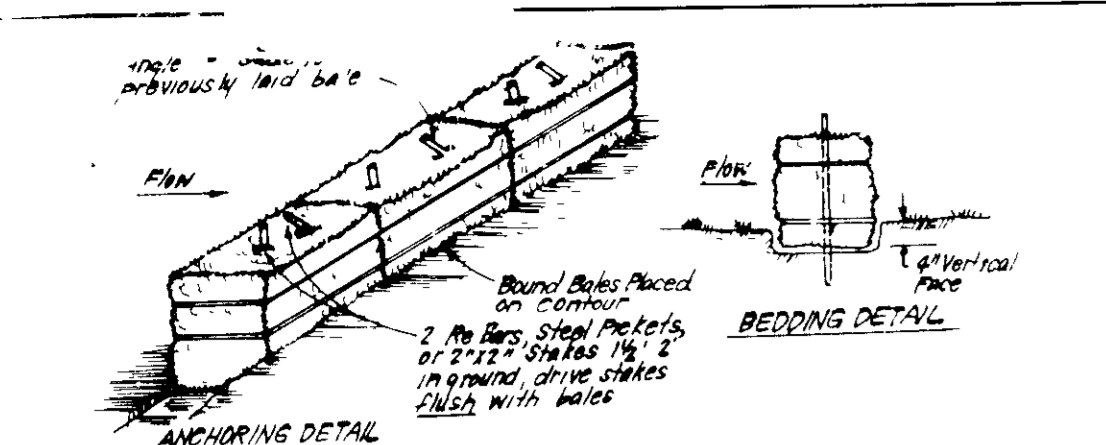
**SITE DEVELOPMENT PLAN**  
LOTS 47-54  
**COLUMBIA**  
**VILLAGE OF LONGREACH**  
SECTION 4  
6<sup>TH</sup> ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

DESIGNED: VHL  
DRAWN: VHL  
CHECKED: JME  
DATE: May, 1988

SCALE: 1/4\"/>

SDP-88-210

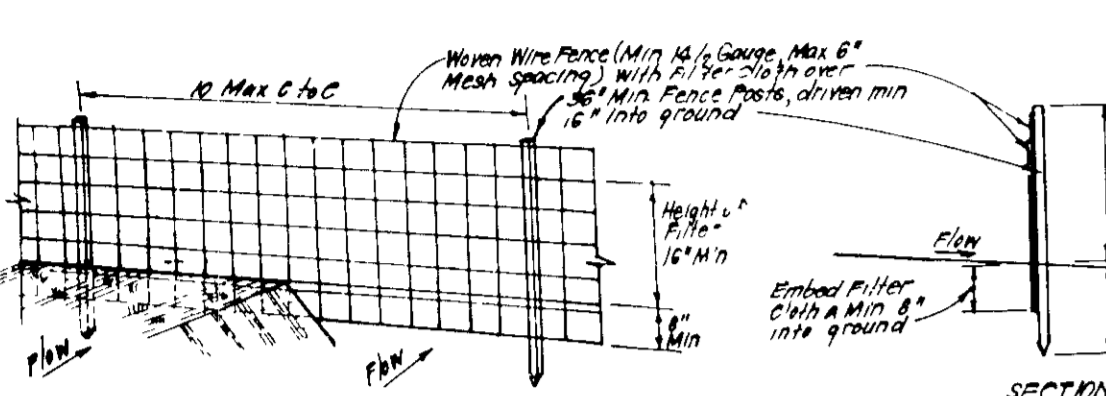




**CONSTRUCTION SPECIFICATIONS:**

- Bales shall be placed at the top of a slope or on the contour and in a row with ends tightly abutting the adjacent bales.
- Each bale shall be embedded in the soil a min. of 4" and placed so the bindings are horizontal.
- Bales shall be secured in place by either 2 stakes or rebar driven thru the bale. The 1st stake in each bale shall be driven thru the bale.
- The bales shall be driven flush with the ends.
- Inspection shall be frequent and repair 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.

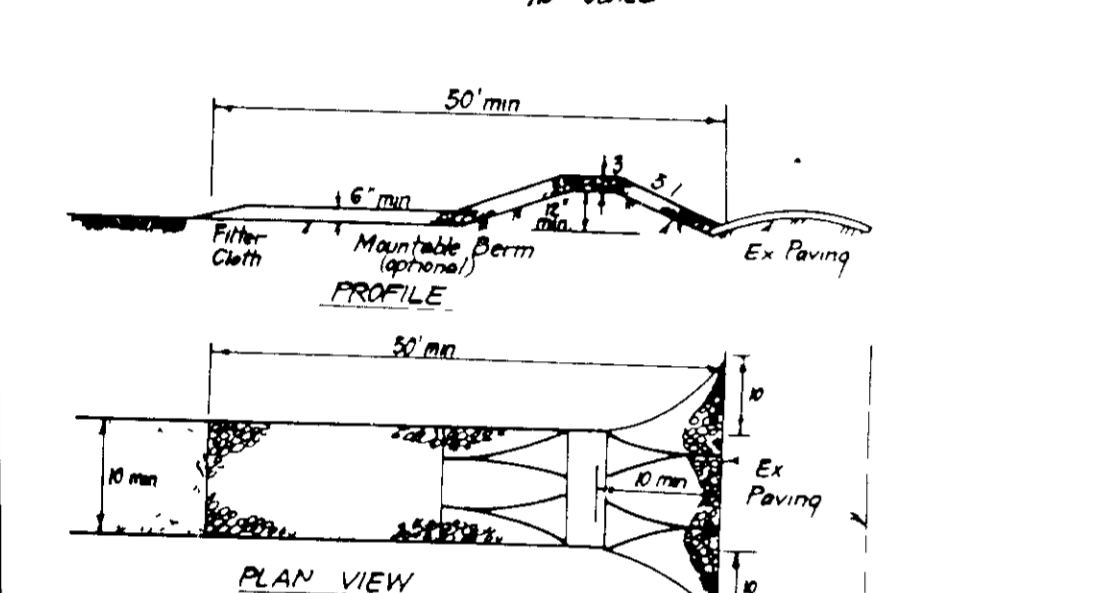
**STRAW BALE DIKE DETAIL (SBD)**  
NO SCALE



**CONSTRUCTION SPECIFICATIONS:**

- Weight wire fence to be fastened securely to fence posts.
- Filter cloth to be fastened securely to weight wire fence.
- When 2 sections of filter cloth adjoin each other they shall be overlapped by 6" and stapled.
- Maintenance shall be performed as needed and material removed when "bushes" develop in silt fence.

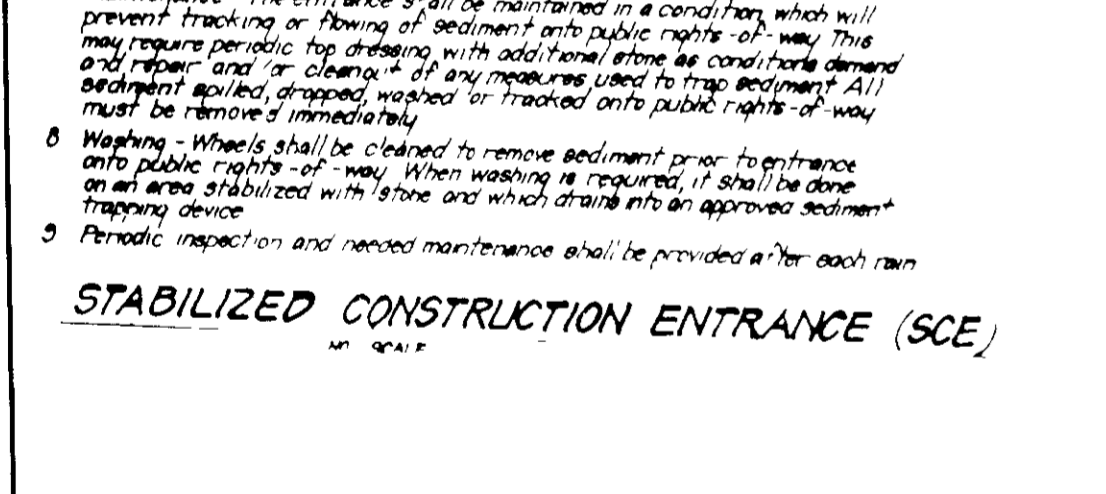
**SILT FENCE DETAIL (S)**  
NO SCALE



**CONSTRUCTION SPECIFICATIONS:**

- Stone Size - Use 2" stone, or recycled concrete equivalent.
- Length - As required, but not less than 50 feet (except for a simple residence).
- Thickness - Not less than six (6) inches.
- Width - Ten (10) feet minimum, but not less than the L<sub>1</sub> width at points where ingress or egress occurs.
- Filter Cloth - Will be placed over the entire area prior to placing of stone.
- Surface Water - All surface water flowing or diverted towards construction entrance shall be ponded across the entrance. If ponding is impractical, a mound of earth with 5' slope will be permitted.
- 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. Sediment shall be cleaned, washed or tracked onto public rights-of-way must be removed immediately.
- Washing - Wheels shall be cleaned to remove sediment prior to entrance into public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
- Periodic inspection and needed maintenance shall be provided after each rain.

**STABILIZED CONSTRUCTION ENTRANCE (SCE)**  
NO SCALE



**CONSTRUCTION SPECIFICATIONS:**

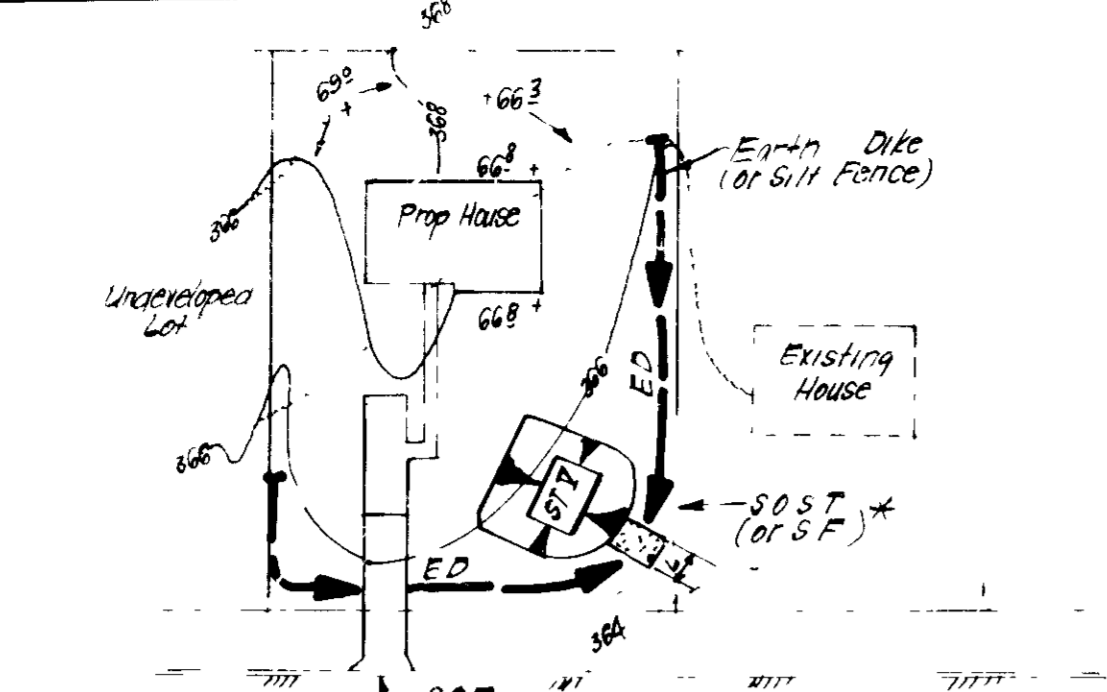
- Trap under construction shall be cleared, graded and stripped of any vegetation and root mat. The trap is to be 6' wide.
- The interior of the trap shall be free of roots and other woody vegetation as well as over sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
- 2:1 side and hill slopes shall be 2:1 or flatter.
- The stone used in the outlet shall be small rip rap 4" to 8" with 1" thickness of #2 aggregate placed on the up slope side of the small rip rap of embankment. Filter cloth to be placed on the down slope side of the trap.
- Two feet shall be removed and top restored to its original condition when the sediment has accumulated to 1/2 the design depth of the trap.
- The structure shall be inspected after each rain and repairs made as needed.
- Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
- The structure shall be removed and the area stabilized when the drainage area has been properly wooded.

**STONE OUTLET SEDIMENT TRAP (SOST) STV**  
NO SCALE

**APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS**  
HOWARD COUNTY HEALTH DEPARTMENT  
DATE: 7-25-88

**APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING**  
DATE: 7-20-88

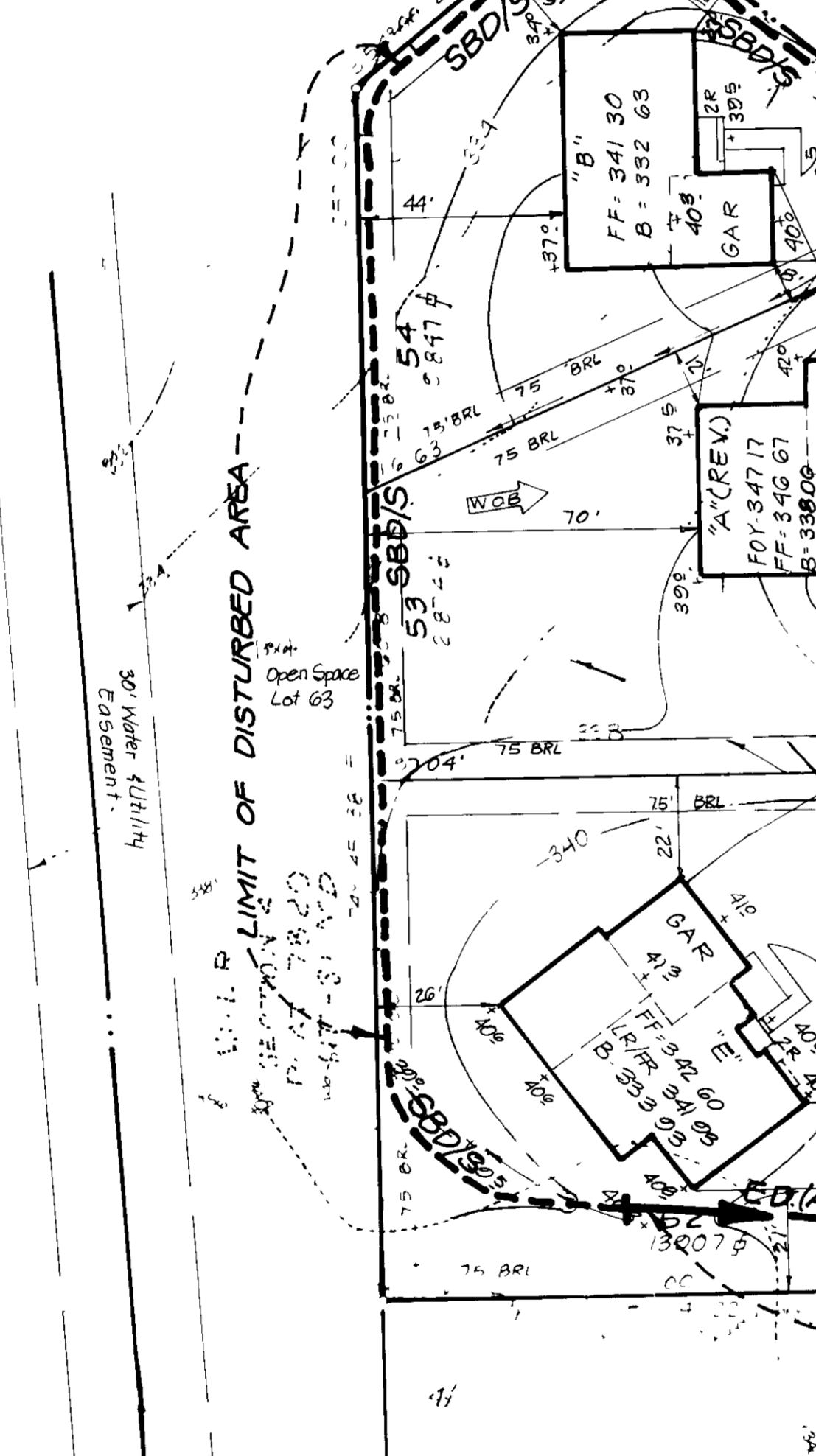
**APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS**  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
DATE: 7-20-88



**NOTE:** Single lot detail can not be utilized if any two lots sharing common property lines are to be disturbed at the same time or on any lots showing a sediment trap.

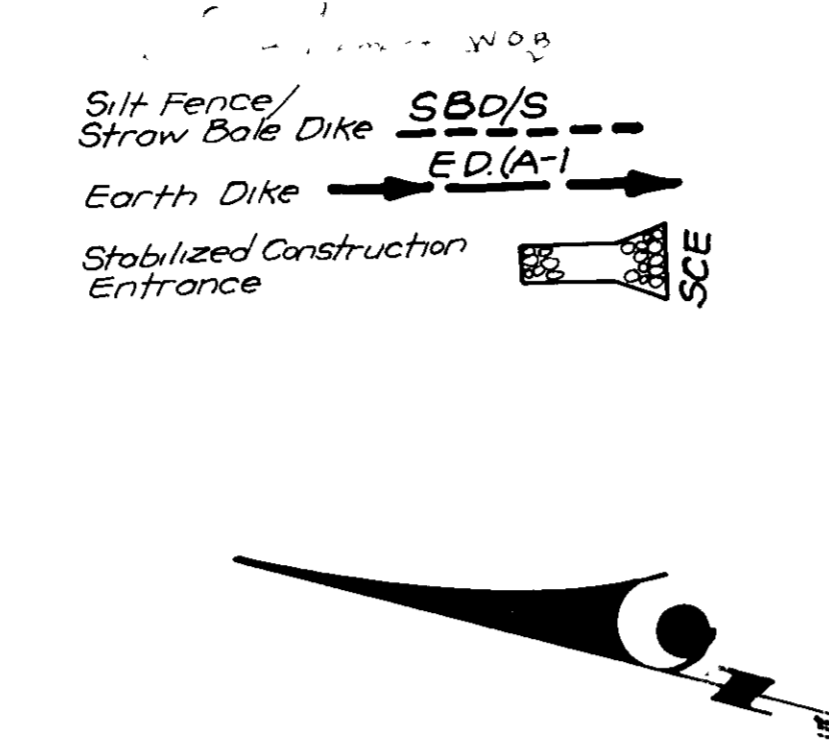
**SINGLE LOT SEDIMENT CONTROL PLAN**  
NO SCALE

NO.	DESCRIPTION	AREA	PERCENT	ACRES
1	Lot 1	11.2	100	1.12
2	Lot 2	11.2	100	1.12
3	Lot 3	11.2	100	1.12
4	Lot 4	11.2	100	1.12
5	Lot 5	11.2	100	1.12
6	Lot 6	11.2	100	1.12
7	Lot 7	11.2	100	1.12
8	Lot 8	11.2	100	1.12
9	Lot 9	11.2	100	1.12
10	Lot 10	11.2	100	1.12
11	Lot 11	11.2	100	1.12
12	Lot 12	11.2	100	1.12
13	Lot 13	11.2	100	1.12
14	Lot 14	11.2	100	1.12
15	Lot 15	11.2	100	1.12
16	Lot 16	11.2	100	1.12
17	Lot 17	11.2	100	1.12
18	Lot 18	11.2	100	1.12
19	Lot 19	11.2	100	1.12
20	Lot 20	11.2	100	1.12
21	Lot 21	11.2	100	1.12
22	Lot 22	11.2	100	1.12
23	Lot 23	11.2	100	1.12
24	Lot 24	11.2	100	1.12
25	Lot 25	11.2	100	1.12
26	Lot 26	11.2	100	1.12
27	Lot 27	11.2	100	1.12
28	Lot 28	11.2	100	1.12
29	Lot 29	11.2	100	1.12
30	Lot 30	11.2	100	1.12
31	Lot 31	11.2	100	1.12
32	Lot 32	11.2	100	1.12
33	Lot 33	11.2	100	1.12
34	Lot 34	11.2	100	1.12
35	Lot 35	11.2	100	1.12
36	Lot 36	11.2	100	1.12
37	Lot 37	11.2	100	1.12
38	Lot 38	11.2	100	1.12
39	Lot 39	11.2	100	1.12
40	Lot 40	11.2	100	1.12
41	Lot 41	11.2	100	1.12
42	Lot 42	11.2	100	1.12
43	Lot 43	11.2	100	1.12
44	Lot 44	11.2	100	1.12
45	Lot 45	11.2	100	1.12
46	Lot 46	11.2	100	1.12
47	Lot 47	11.2	100	1.12
48	Lot 48	11.2	100	1.12
49	Lot 49	11.2	100	1.12
50	Lot 50	11.2	100	1.12
51	Lot 51	11.2	100	1.12
52	Lot 52	11.2	100	1.12
53	Lot 53	11.2	100	1.12
54	Lot 54	11.2	100	1.12
55	Lot 55	11.2	100	1.12
56	Lot 56	11.2	100	1.12
57	Lot 57	11.2	100	1.12
58	Lot 58	11.2	100	1.12
59	Lot 59	11.2	100	1.12
60	Lot 60	11.2	100	1.12
61	Lot 61	11.2	100	1.12
62	Lot 62	11.2	100	1.12
63	Lot 63	11.2	100	1.12
64	Lot 64	11.2	100	1.12
65	Lot 65	11.2	100	1.12
66	Lot 66	11.2	100	1.12
67	Lot 67	11.2	100	1.12
68	Lot 68	11.2	100	1.12
69	Lot 69	11.2	100	1.12
70	Lot 70	11.2	100	1.12
71	Lot 71	11.2	100	1.12
72	Lot 72	11.2	100	1.12
73	Lot 73	11.2	100	1.12
74	Lot 74	11.2	100	1.12
75	Lot 75	11.2	100	1.12
76	Lot 76	11.2	100	1.12
77	Lot 77	11.2	100	1.12
78	Lot 78	11.2	100	1.12
79	Lot 79	11.2	100	1.12
80	Lot 80	11.2	100	1.12
81	Lot 81	11.2	100	1.12
82	Lot 82	11.2	100	1.12
83	Lot 83	11.2	100	1.12
84	Lot 84	11.2	100	1.12
85	Lot 85	11.2	100	1.12
86	Lot 86	11.2	100	1.12
87	Lot 87	11.2	100	1.12
88	Lot 88	11.2	100	1.12
89	Lot 89	11.2	100	1.12
90	Lot 90	11.2	100	1.12
91	Lot 91	11.2	100	1.12
92	Lot 92	11.2	100	1.12
93	Lot 93	11.2	100	1.12
94	Lot 94	11.2	100	1.12
95	Lot 95	11.2	100	1.12
96	Lot 96	11.2	100	1.12
97	Lot 97	11.2	100	1.12
98	Lot 98	11.2	100	1.12
99	Lot 99	11.2	100	1.12
100	Lot 100	11.2	100	1.12



**6-16-88**  
LKS

**LEGEND:**  
Existing Structure  
Proposed Structure  
Silt Fence/Straw Bale Dike  
Earth Dike  
Stabilized Construction Entrance



**CONSTRUCTION SPECIFICATIONS:**

- Trap under construction shall be cleared, graded and stripped of any vegetation and root mat. The trap is to be 6' wide.
- The interior of the trap shall be free of roots and other woody vegetation as well as over sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
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**STONE OUTLET SEDIMENT TRAP (SOST) STV**  
NO SCALE

**CONSTRUCTION SEQUENCE**

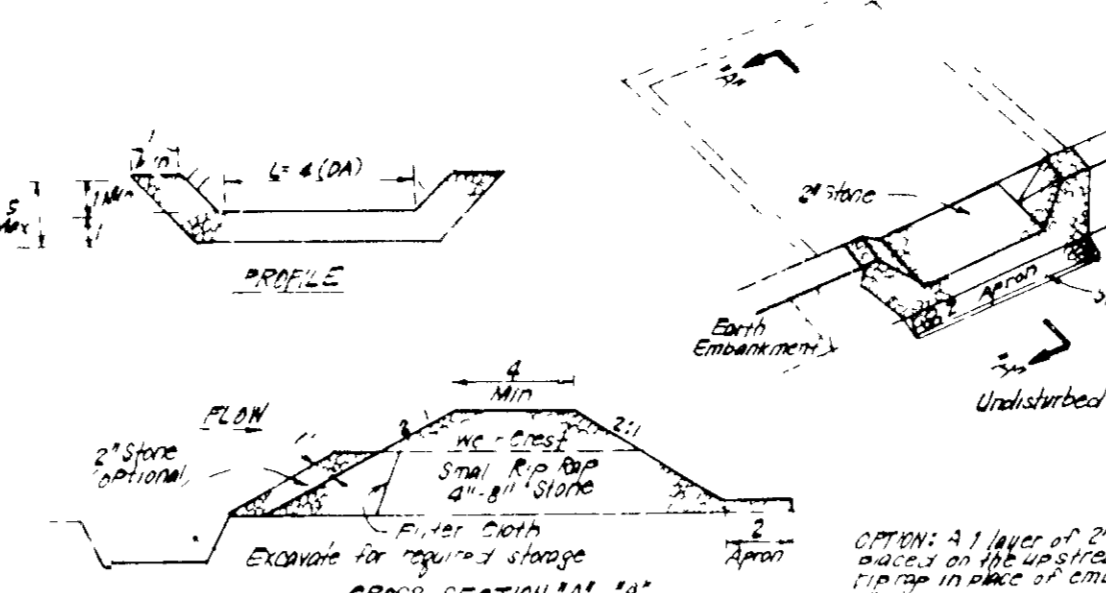
Activity	No. of Days
A. Obtain Grading Permit and Install Sediment and Erosion Control Structures and Stabilize	7
B. Excavate for Foundations and Rough Grade of Temporary Stabilize	30
C. Construct Structures, Sidewalks and Driveways	120
D. Final Grade and Stabilize in accordance with Stds. & Specs	30
E. Upon approval of the sediment control inspector remove sediment and erosion controls and stabilize	30

**TRAP NO. 1 SOST ST V**  
Drainage Area 0.9 Acres  
Storage Required 0.9 x 1800 = 1620 CF  
Depth 4'  
Top of Stone Crest 325.0  
Bottom Elevation 320.0  
Cleanout Elevation 320.0  
Bottom Dimension 7' x 10'

**DEVELOPER'S/BUILDER'S CERTIFICATE**  
I/We certify that all development and construction will be done according to the plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction 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.

**ENGINEER'S CERTIFICATE**  
I hereby certify that this plan for Erosion and Sediment Control represents a professional and workable plan for the site. It is my belief that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

**APPROVED:**  
Signature: [Signature]  
Date: 5/20/88



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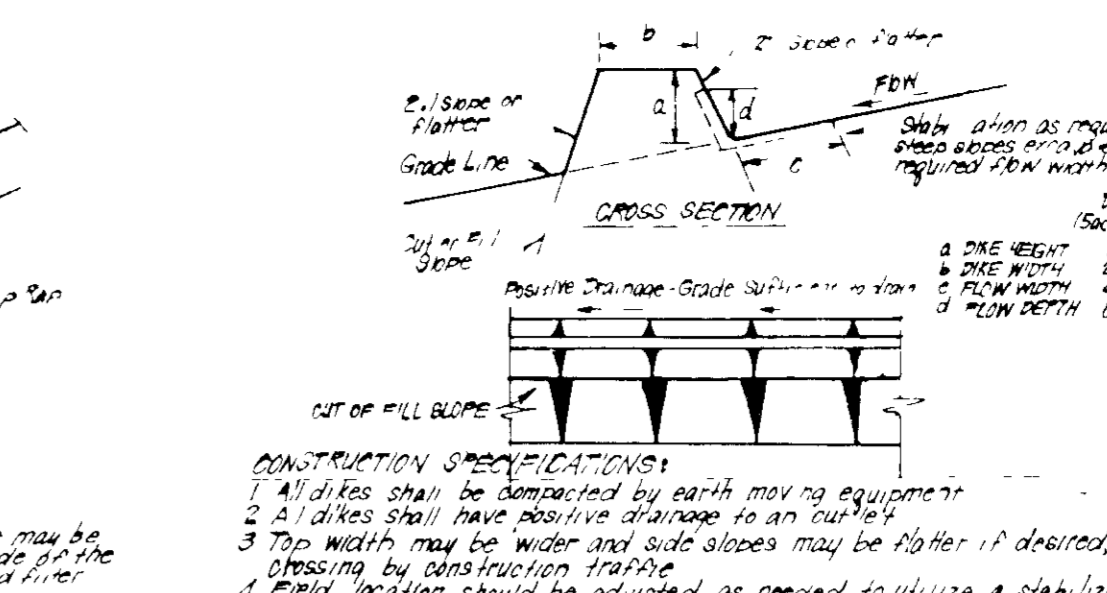
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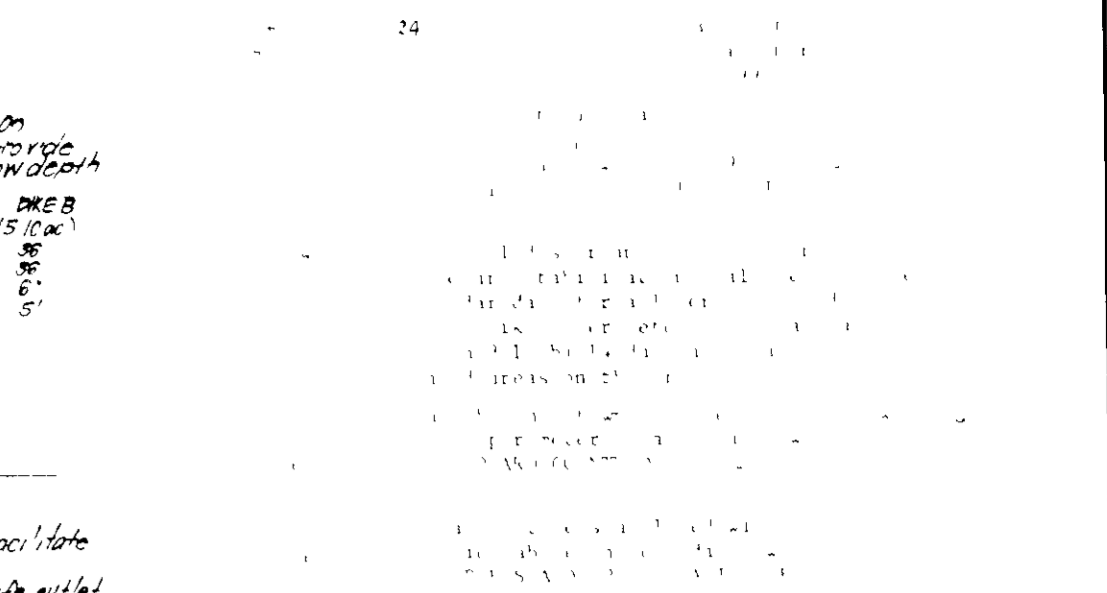
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Signature: [Signature]  
Date: 5/20/88

**CLARK • FINEFROCK & SACKETT, INC**  
ENGINEERS • PLANNERS • SURVEYORS

**SEDIMENT & EROSION CONTROL PLAN**  
LOTS 47-54  
**COLUMBIA**  
VILLAGE OF LONGREACH

SECTION 4  
6TH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

DATE: May 1988

SDP-88-216