

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

Howard J. Gutzick 11-5-90
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

Robert W. J. Gutzick 1/4/91
DATE

APPROVED: DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

James M. Kelly 1/13/91
DATE

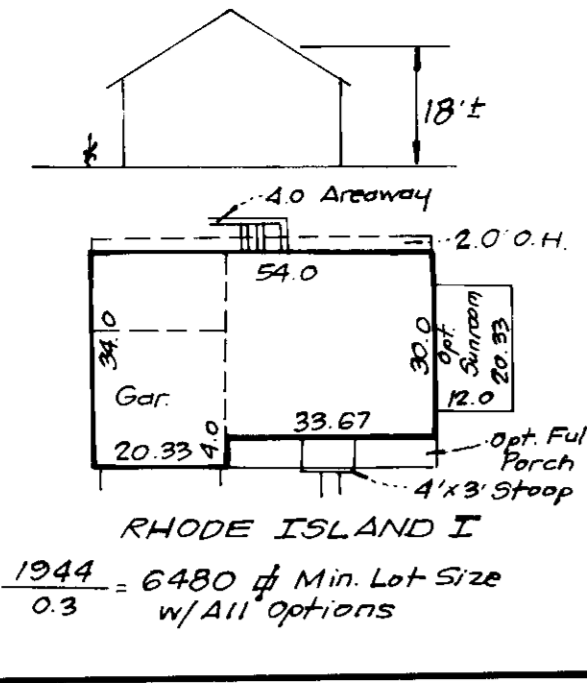
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE,
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

James M. Kelly 1/13/91
DATE

DIRECTOR

James M. Kelly 1/13/91
DATE

CHIEF BUREAU OF ENGINEERING

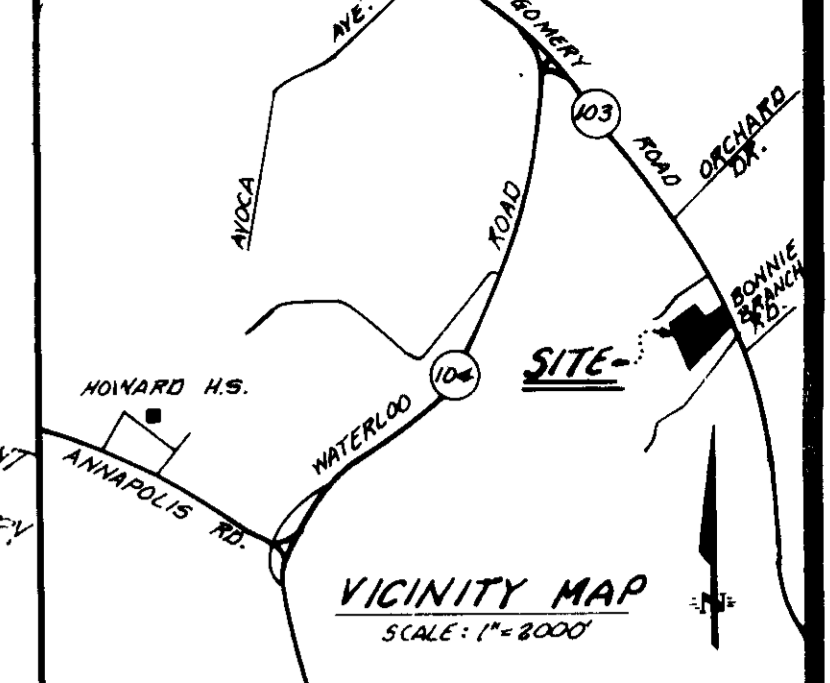
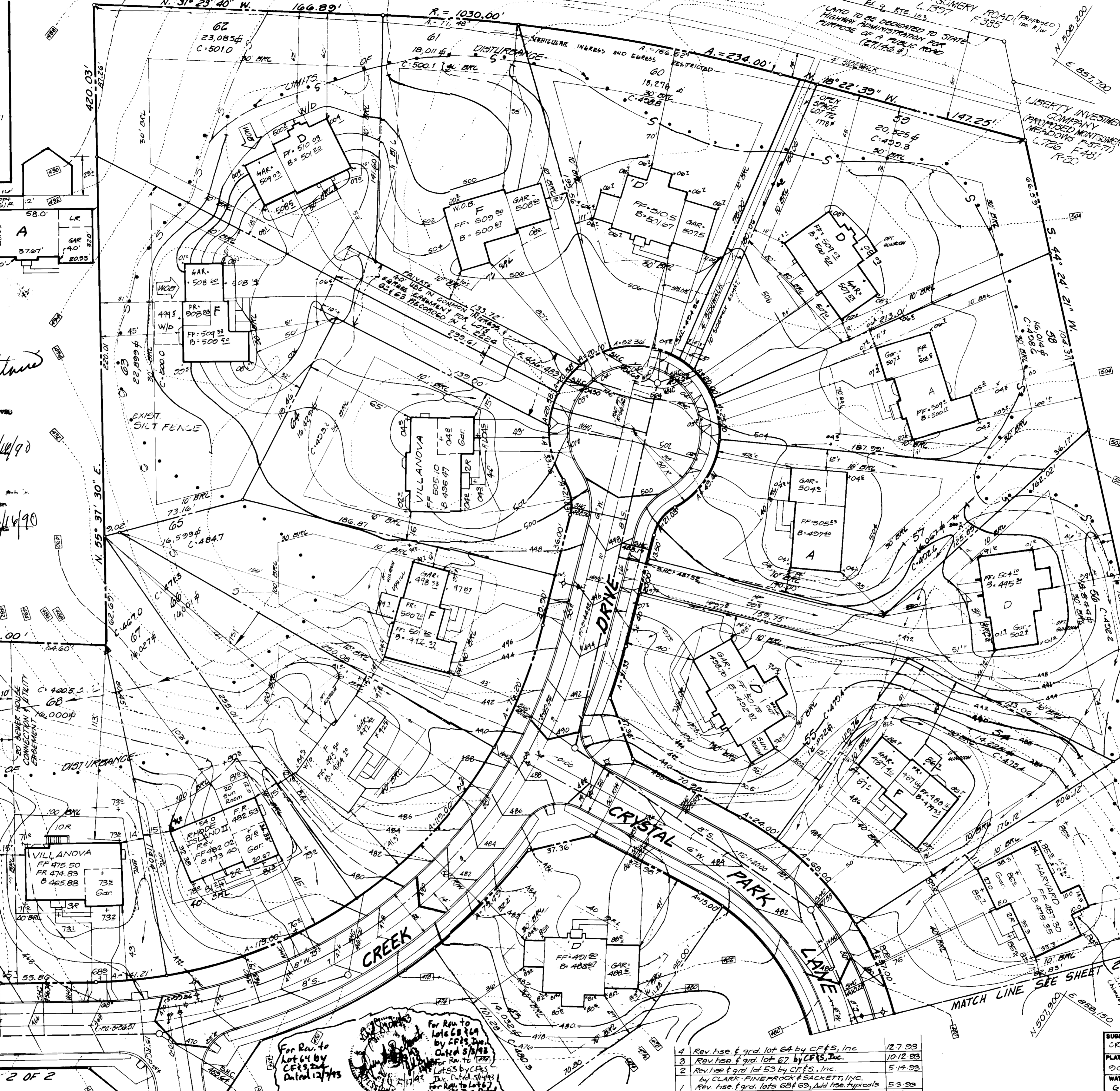
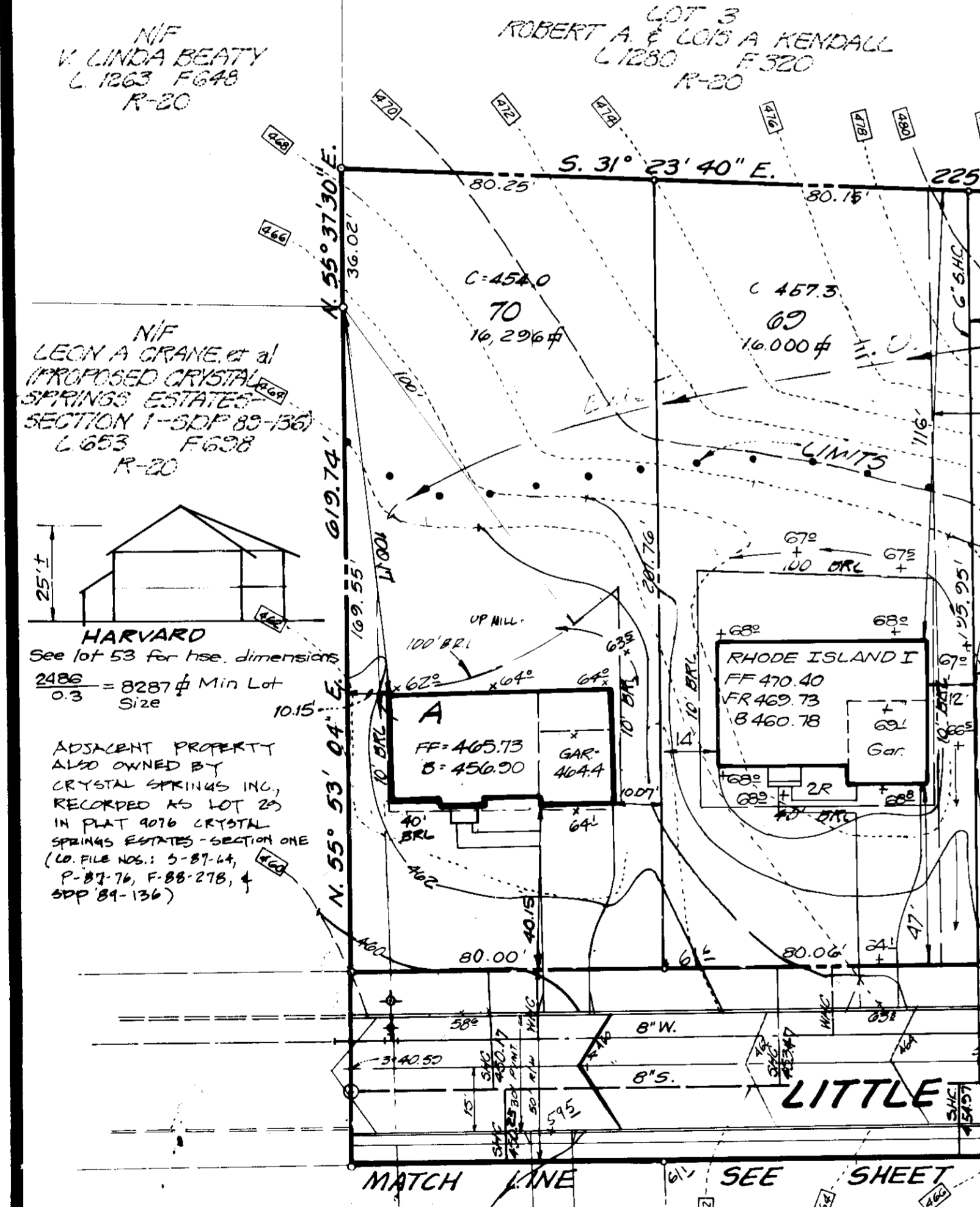


GENERAL NOTES & SITE ANALYSIS:

1. THE LAND INCLUDED IS ZONED R-20.
2. THE AREA COVERED IS LOCATED ON TAX MAP 31 PARCEL 191.
3. THE TOTAL AREA OF CRYSTAL SPRINGS ESTATES 981.2 IS 13.75 AC.
4. ALL ROADWAYS ARE PUBLIC.
5. THE TOTAL NUMBER OF LOTS INCLUDED IN THIS PLAN IS 36 - 2 OPEN SPACE LOTS.
6. SEE SHEET 3 OF 3 FOR APPROX. DETAILS.
7. SEE ALSO PREVIOUS FILE NOS. J-87-05, P-87-02, F-84-22, F-89-22, F-89-44.
8. NO STEEP SLOPES OR FLOODPLAIN EXIST ON THIS SITE.
9. NO BASEMENT EXIT AREAWAYS PROVIDED.
10. STORMWATER MANAGEMENT PROVIDED UNDER F-89-44 - MONTGOMERY MEADOWS.
11. THE WETLAND BUFFER INDICATED ON THIS PLAN DOES NOT AFFECT THE INITIAL CONSTRUCTION OF A RESIDENTIAL UNIT ON ANY LOT. IT DOES PROHIBIT SUBSEQUENT CLEARING, GRADING OR CONSTRUCTION IN THE BUFFER AREA MAINTENANCE OF RESIDENCES, LANDSCAPING, AND UTILITIES IS PERMITTED.
12. MAINTENANCE DECLARATION FOR USE IN COMMON ACCESS AREAS ARE RECORDED IN LIBRE 2024 PLUD 466-083.

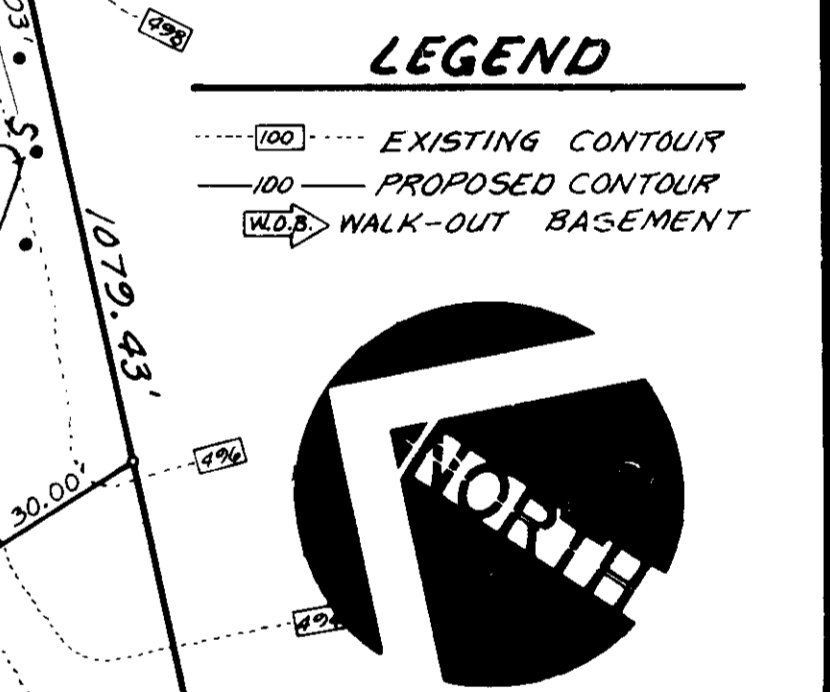
CERTIFY THAT THIS PLAN FOR DESIGN AND CONSTRUCTION SHALL REPRESENT A PRELIMINARY AND WORKING PLAN BASED ON THE PERSONAL KNOWLEDGE OF THE ENGINEER AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE BOARD OF PROFESSIONAL ENGINEERS.

CK Gutzick 2/28/89
Robert W. J. Gutzick 1/13/91
James M. Kelly 1/13/91



ADDRESS CHART

LOT NO.	STREET ADDRESS
35	5118 Little Creek Drive
36	5100 Crystal Park Lane
37	5104 Crystal Park Lane
38	5108 Crystal Park Lane
39	5112 Crystal Park Lane
40	5102 Crystal Park Lane
41	5106 Crystal Park Lane
42	5128 Little Creek Drive
43	5124 Crystal Park Lane
44	5104 Crystal Park Lane
45	5110 Crystal Park Lane
46	5114 Crystal Park Lane
47	5118 Crystal Park Lane
48	5122 Crystal Park Lane
49	5126 Crystal Park Lane
50	5123 Crystal Park Lane
51	5119 Crystal Park Lane
52	5115 Crystal Park Lane
53	5111 Crystal Park Lane
54	5107 Crystal Park Lane
55	5136 Little Creek Drive
56	5142 Little Creek Drive
57	5146 Little Creek Drive
58	5150 Little Creek Drive
59	5154 Little Creek Drive
60	5158 Little Creek Drive
61	5142 Little Creek Drive
62	5146 Little Creek Drive
63	5141 Little Creek Drive
64	5127 Little Creek Drive
65	5123 Little Creek Drive
66	5129 Little Creek Drive
67	5125 Little Creek Drive
68	5117 Little Creek Drive
69	5113 Little Creek Drive
70	5111 Little Creek Drive



GW GUTSCHICK LITTLE & WEBER, P.A.
ENGINEERS, PLANNERS, SURVEYORS
3909 NATIONAL DRIVE SUITE 250 BURTONSVILLE OFFICE PARK BURTONSVILLE, MD. 20886
TELEPHONE: (301) 421-4024

REVISION

DATE	REVISION	BY	APPR.
1-25-93	RESITE LOTS 57 & 61 & REVISED LOT 42 STREET ADDRESS - GLW	GLW	
10/15/94	RESITE LOTS 58, 64 & 64	GLW	
3-22-94	REVISED LOTS 43 AND 60 TYPE D HOUSE	GLW	
11/10/93	RESITE LOT 55, ANGLED TYPE D HOUSE FOR SIDE LOAD	GLW	
6-25-93	RESITE LOT 70 TO A TYPE A ADDED TYPICAL HOUSE TYPE	GLW	

PREPARED FOR:
CRYSTAL SPRINGS, INC.
% BERTON CONSTRUCTION CO.
6110 EXECUTIVE BLVD, STE 1000
ROCKVILLE, MARYLAND 20852

SITE DEVELOPMENT PLAN
CRYSTAL SPRINGS ESTATES
SECTION TWO
ELKCRIDGE ELECTION DISTRICT NO. 1
HOWARD COUNTY, MARYLAND

SCALE 1" = 30'	ZONING R-20	G.L.W. FILE NO. 88-008
DATE MARCH, 1991	TAX MAP NO. 31	SHEET 1 OF 3
PARCEL 191		

SDP 89-171

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

John M. B... 11-15-90
DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

1/4/91
DATE

1/4/91
DATE

CHIEF DIVISION OF COMMUNITY PLANNING AND
LAND DEVELOPMENT

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

11/6/90
DATE

11-6-90
DATE

CHIEF BUREAU OF ENGINEERING

ENGINEER'S CERTIFICATE

"I 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."

2/28/89
Date

DEVELOPER'S/BUILDER'S CERTIFICATE

"I certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Government Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by H.S.C.D."

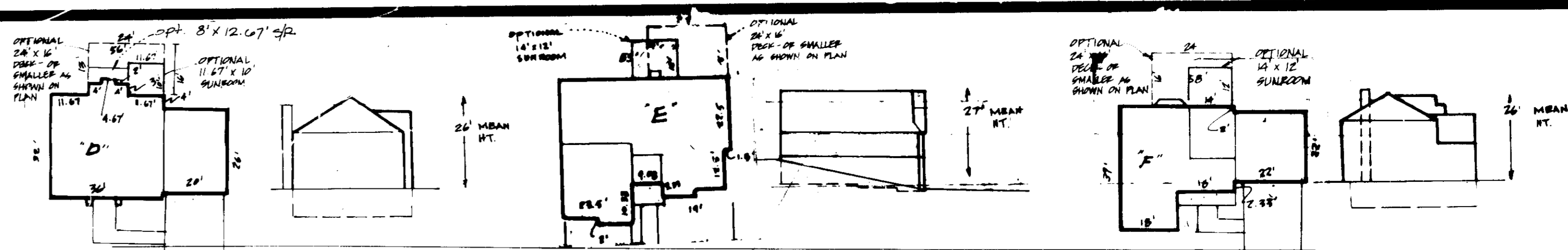
2/28/89
Date

Signature of Developer/Builder

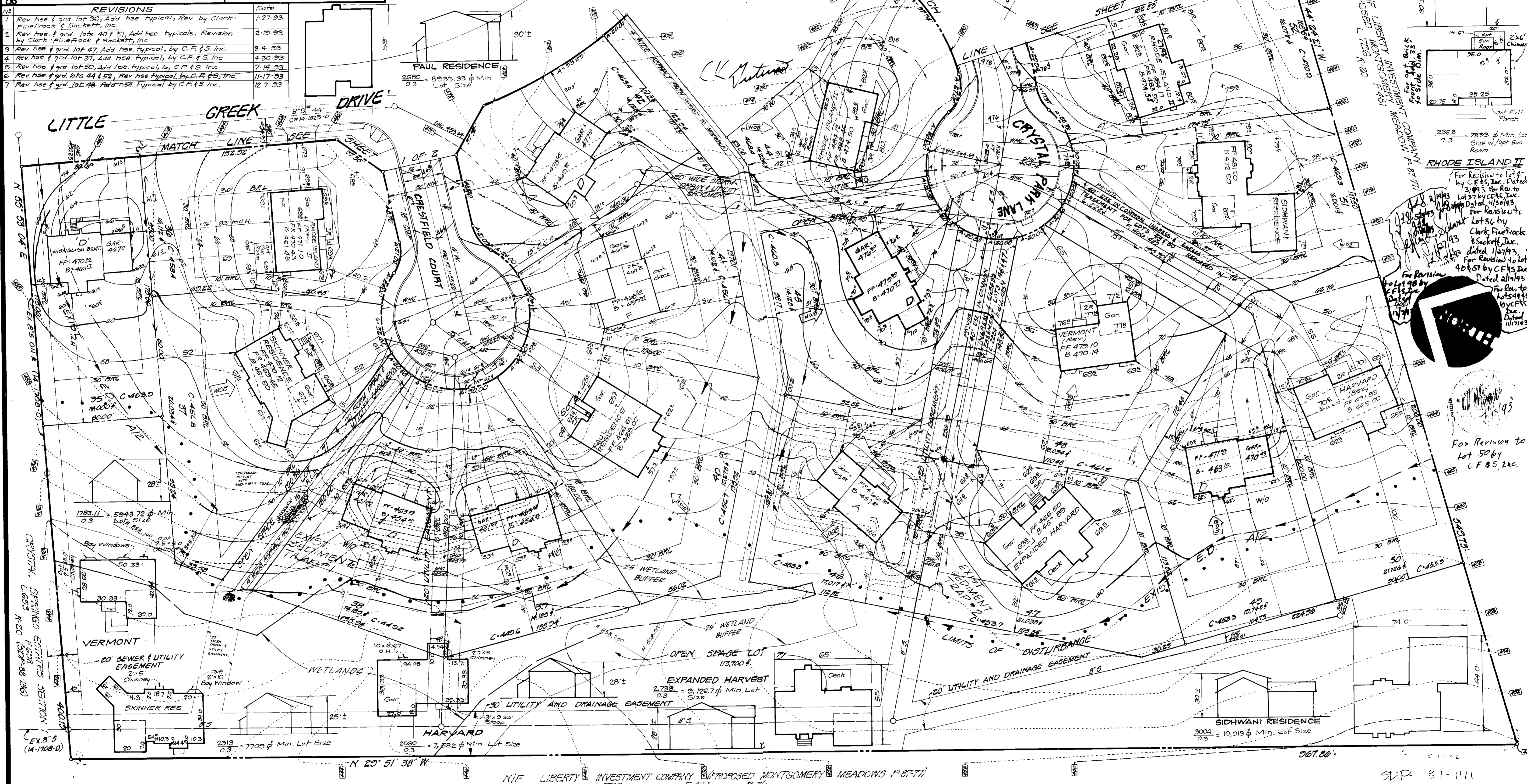
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL PROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

2/28/89
Date

Signature of District Engineer



No.	REVISIONS	Date
1	Rev. hse & 9rd lot 36, Add hse typical, Rev. by Clark FineFrock & Sackett, Inc.	1-27-93
2	Rev. hse & 9rd lots 40 & 51, Add hse typical, Revision by Clark FineFrock & Sackett, Inc.	2-19-93
3	Rev. hse & 9rd lot 47, Add hse typical, by C.F. & S. Inc.	3-4-93
4	Rev. hse & 9rd lot 37, Add hse typical, by C.F. & S. Inc.	4-30-93
5	Rev. hse & 9rd lot 50, Add hse typical, by C.F. & S. Inc.	7-14-93
6	Rev. hse & 9rd lots 44 & 52, Rev. hse typical, by C.F. & S. Inc.	11-17-93
7	Rev. hse & 9rd lot 48, Add hse typical, by C.F. & S. Inc.	12-7-93



LIBERTY INVESTMENT COMPANY (PROPOSED MONTGOMERY MEADOWS P-87-71)

FOR REVISION TO LOT 36 BY CLARK FINEFROCK & SACKETT, INC. DATED 11/27/93

FOR REVISION TO LOT 40 & 51 BY CLARK FINEFROCK & SACKETT, INC. DATED 11/27/93

FOR REVISION TO LOT 47 BY CLARK FINEFROCK & SACKETT, INC. DATED 11/27/93

FOR REVISION TO LOT 37 BY CLARK FINEFROCK & SACKETT, INC. DATED 11/27/93

FOR REVISION TO LOT 50 BY CLARK FINEFROCK & SACKETT, INC. DATED 11/27/93

FOR REVISION TO LOT 44 & 52 BY CLARK FINEFROCK & SACKETT, INC. DATED 11/27/93

FOR REVISION TO LOT 48 BY CLARK FINEFROCK & SACKETT, INC. DATED 11/27/93

GLW GUTSCHICK LITTLE & WEBER, P.A.
ENGINEERS, PLANNERS, SURVEYORS
3909 NATIONAL DRIVE SUITE 250 BURTONSVILLE OFFICE PARK BURTONSVILLE, MD 20868
TELEPHONE (301) 421-4024

DATE	REVISION	BY	APP'R.
1-25-95	RESUBMITTED LOT 42 - GLW		
10/5/94	RESUBMITTED LOT 40	GLW	
5/10/94	RESUBMITTED LOT 41 (1 1/2" TYPED HOUSE - MCP)	GLW	
8-20-93	RESUBMITTED LOT 45 - HK 12-22-94 RESUBMITTED LOT 35 - HK		

PREPARED FOR:
CRYSTAL SPRINGS, INC.
% BERTON CONSTRUCTION CO.
6110 EXECUTIVE BLVD, STE 1000
ROCKVILLE, MARYLAND 20852

SITE DEVELOPMENT PLAN
CRYSTAL SPRINGS ESTATES
SECTION TWO
ELK RIDGE ELECTION DISTRICT NO. 1 HOWARD COUNTY, MARYLAND

SCALE	ZONING	G.L.W. FILE NO.
1" = 30'	R-20	88-008
DATE	TAX MAP NO.	SHEET
MARCH, 1991	31	2 OF 3
PARCEL	NO.	
191		

SDP 87-171

APPROVED: *[Signature]* 11-15-90
 COUNTY HEALTH OFFICER
 APPROVED: *[Signature]* 11/14/91
 COUNTY HEALTH DEPT. OF PLANNING & ZONING
 APPROVED: *[Signature]* 11/15/91
 CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
 APPROVED: *[Signature]* 11/16/90
 DIRECTOR
 APPROVED: *[Signature]* 11-6-90
 CHIEF BUREAU OF ENGINEERING

CONSTRUCTION SEQUENCE

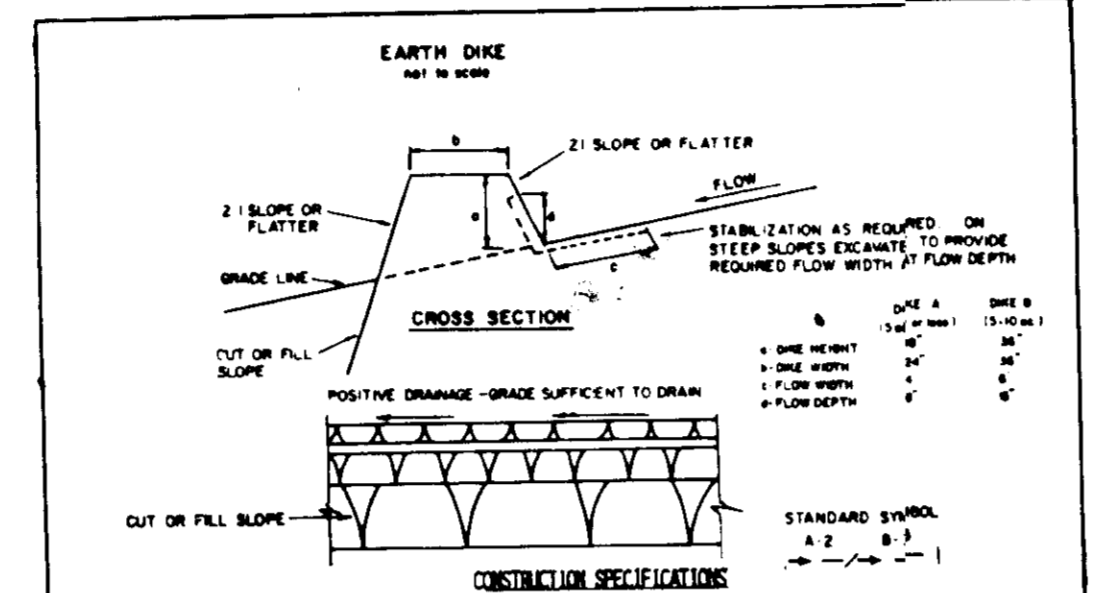
1. Update Grading Permit.
2. Perform any necessary maintenance/repairs to the existing sediment control devices.
3. Install any additional sediment control devices required by this plan.
4. Begin construction of houses and fine grading. (DELAY CONSTRUCTION OF HOUSES ON LOTS 38, 39, & 46)
5. Stabilize all disturbed areas.
6. Upon approval by Sediment Control Inspector remove all sediment control devices + CONSTRUCT HOUSES ON LOTS 38, 39 & 46.

TEMPORARY SEEDING NOTES

1. A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (892-2437)
2. All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
3. Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes and perimeter slopes and all slopes greater than 3:1, b) 14 days or to all other disturbed or graded areas on the project site.
4. All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
5. All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51) and (Sec. 54), temporary seedings (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
6. All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
7. Site Analysis:
 Total Area of Site: 13.95 Acres
 Area Disturbed: 4.85 Acres
 Area to be roofed or paved: 2.90 Acres
 Area to be vegetatively stabilized: 6.15 Acres
 Total Cut: 0 Cu. Yds.
 Total Fill: 0 Cu. Yds.
 Offsite waste/borrow area location: N/A
8. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
9. Additional sediment control must be provided, if deemed necessary by the Howard County DPM sediment control inspector.
10. On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon approval of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
11. If houses are to be constructed on an "As-Built" basis, at random, Single Lot Sediment Control as shown below shall be implemented.
12. All pipes to be blocked at the end of each day (see detail below).
13. The total amount of straw bale dikes/silt fences equals 1200 L.F.

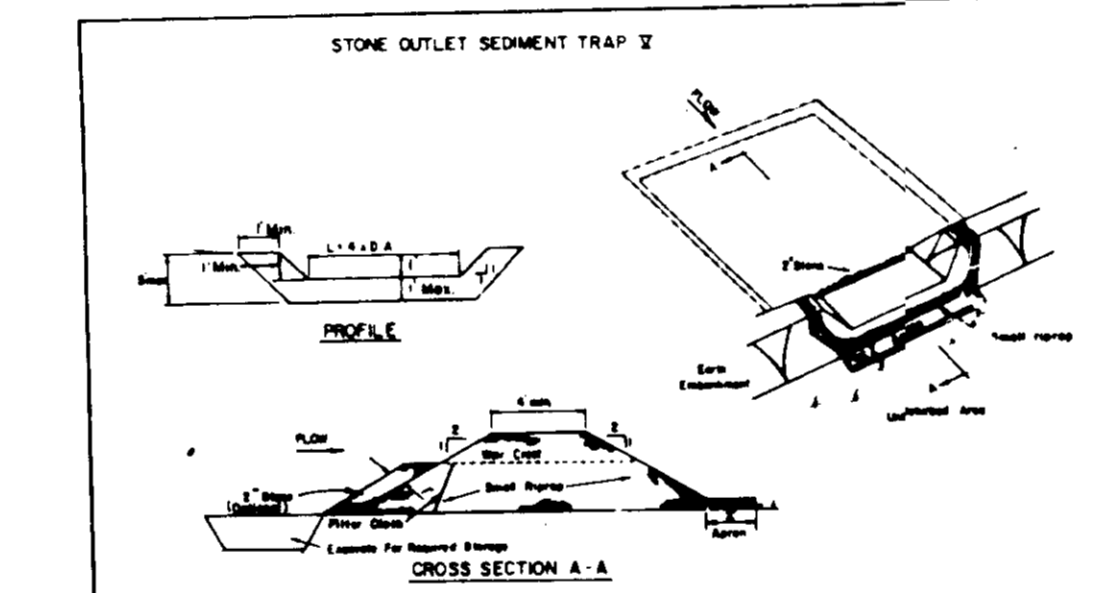
PERMANENT SEEDING NOTES

- Apply to graded or cleared areas likely to be redistributed where a short-term vegetative cover is needed.
- Seedbed Preparation - Loosen upper three inches of soil by raking, discing or other acceptable means before seeding. (Unless previously loosened) Soil Amendments: Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft).
- Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2-1/2 bushel per acre of annual ryegrass (12 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 1 lbs per acre of weeping lovegrass (.07 lbs/1000 sq ft). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.
- Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of untreated small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes, 8 ft or higher, use 348 gal per acre (8 gal/1000 sq ft) for anchoring.
- Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.
- Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.
- Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding. (Unless previously loosened) Soil Amendments: In lieu of soil test recommendations, use one of the following schedules:
- 1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 square feet) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 10-0-0 ureaform fertilizer (9 lbs/1000 sq ft).
 - 2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil.
- Seeding - For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs per acre (1.4 lbs/1000 sq ft) of Kentucky 11 Tall Fescue. For the period May 1 thru July 31, seed with 40 lbs Kentucky 31 Tall Fescue per acre and 2 lbs per acre (.05 lbs/1000 sq ft) of weeping lovegrass. During the period of October 16 thru February 28, protect site by: Option (1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.
- Mulching - Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of untreated small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes, 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq ft) for anchoring.
- Maintenance - Inspect all seeded areas and make needed repairs, replacements and reseedings.



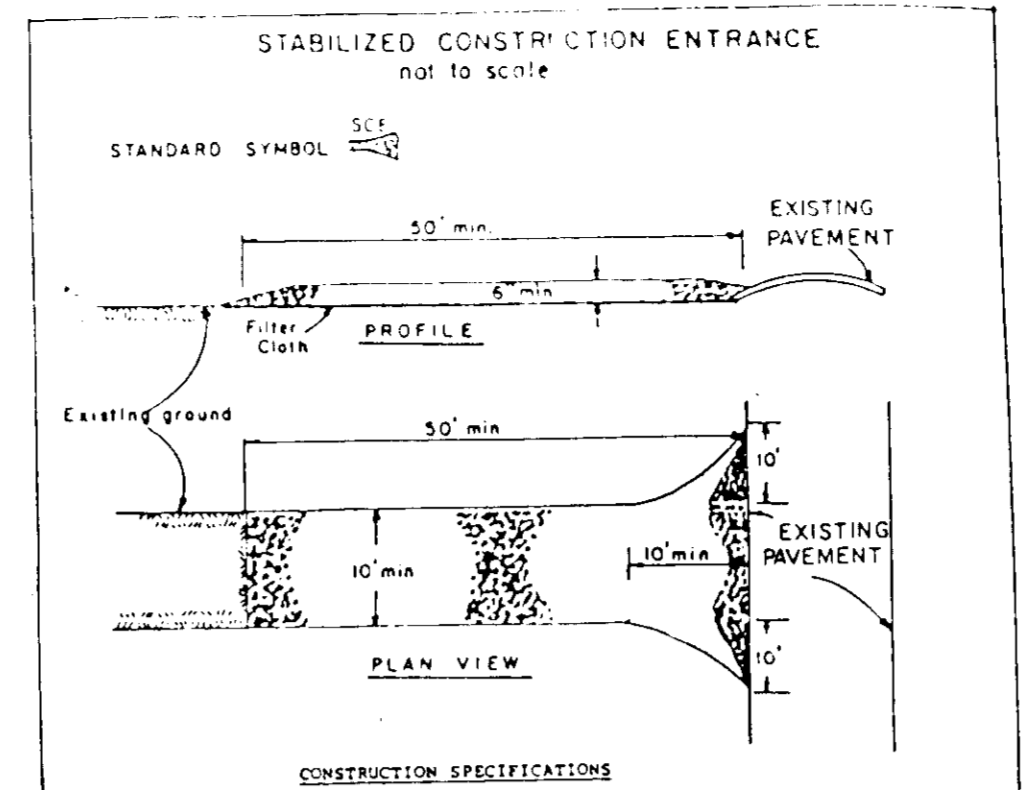
TYPE OF TREATMENT	CHANNEL	DISE A	DISE B
1	5-3-0E	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3-1-5-0E	SEED AND STRAW MULCH	SEED USING LIME, 20% EXCELLENCE, 20% STONE
3	5-1-8-0E	SEED WITH LIME, OF SOIL	LIME RIP-RAP 4-8"
4	8-1-2-0E	LIME RIP-RAP 4-8"	ENGINEERING DESIGN

1. STONE TO BE 2 INCH STONES, OR RECYCLED CONCRETE EQUIVALENT, IN A LAYER AT LEAST 3 INCHES IN THICKNESS AND BE PRESSED INTO THE SOIL WITH CONSTRUCTION EQUIPMENT.
 2. RIP-RAP TO BE 4-8 INCHES IN A LAYER AT LEAST 3 INCHES THICKNESS AND PRESSED INTO THE SOIL.
 3. THE SOIL SURFACE EQUIVALENTS CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS.
 7. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

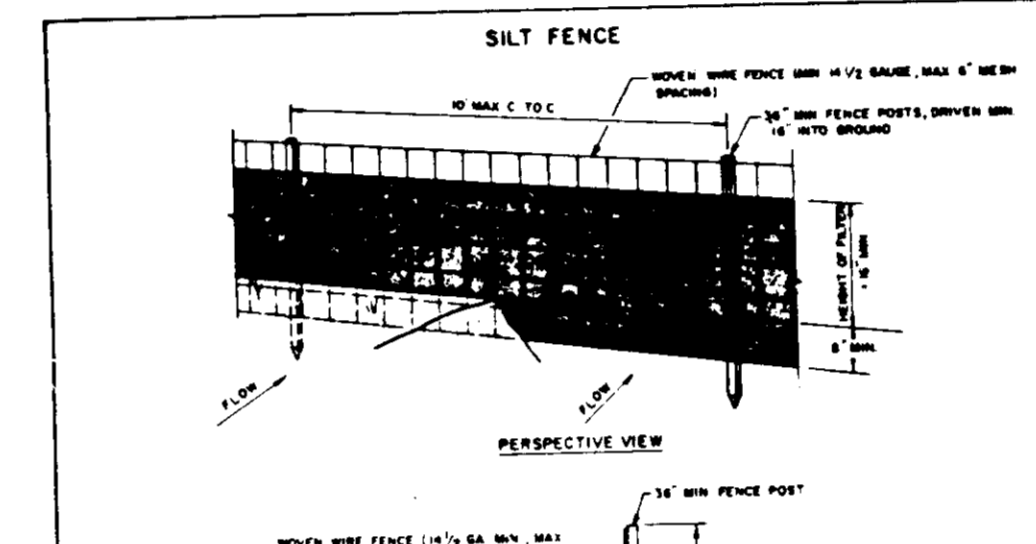


CONSTRUCTION SPECIFICATIONS FOR ST-VI

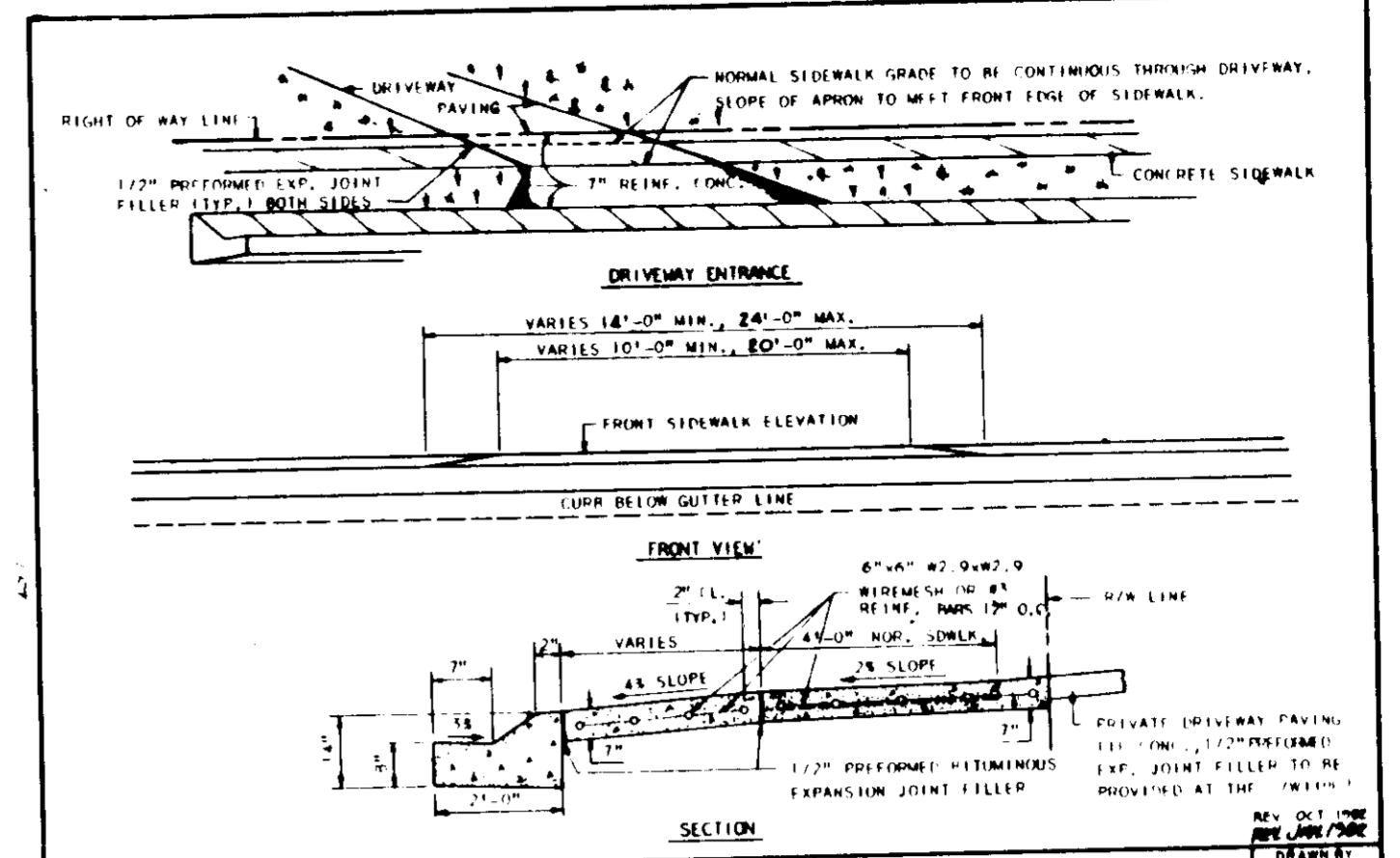
1. The area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
2. The fill material for the embankment shall be free of roots or other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed. Maximum height of embankment shall be five (5) feet, measured at centerline of embankment.
3. All fill slopes shall be 2:1 or flatter; cut slopes 1:1 or flatter.
4. Elevation of the top of any dike directing water into trap must equal or exceed the height of embankment.
5. Storage area provided shall be figured by computing the volume available behind the outlet channel up to an elevation of one (1) foot below the level weir crest.
6. Filter cloth shall be placed over the bottom and sides of the outlet channel prior to placement of stone. Sections of fabric must overlap at least one (3) foot with section nearest the entrance placed on top. Fabric shall be embedded at least six (6) inches into existing ground at entrance of outlet channel.
7. Stone used in the outlet channel shall be four (4) to eight (8) inches (rip-rap). To provide a filtering effect, a layer of filter cloth shall be embedded one (1) foot back into the upstream face of the outlet stone or a one (1) foot thick layer of two (2) inch or finer aggregate shall be placed on the upstream face of the outlet.
8. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
9. The structure shall be inspected after each rain and repaired as needed.
10. Construction operations shall be carried out in such a manner that erosion and water pollution are minimized.
11. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.
12. Drainage area for this practice is limited to 15 acres or less.



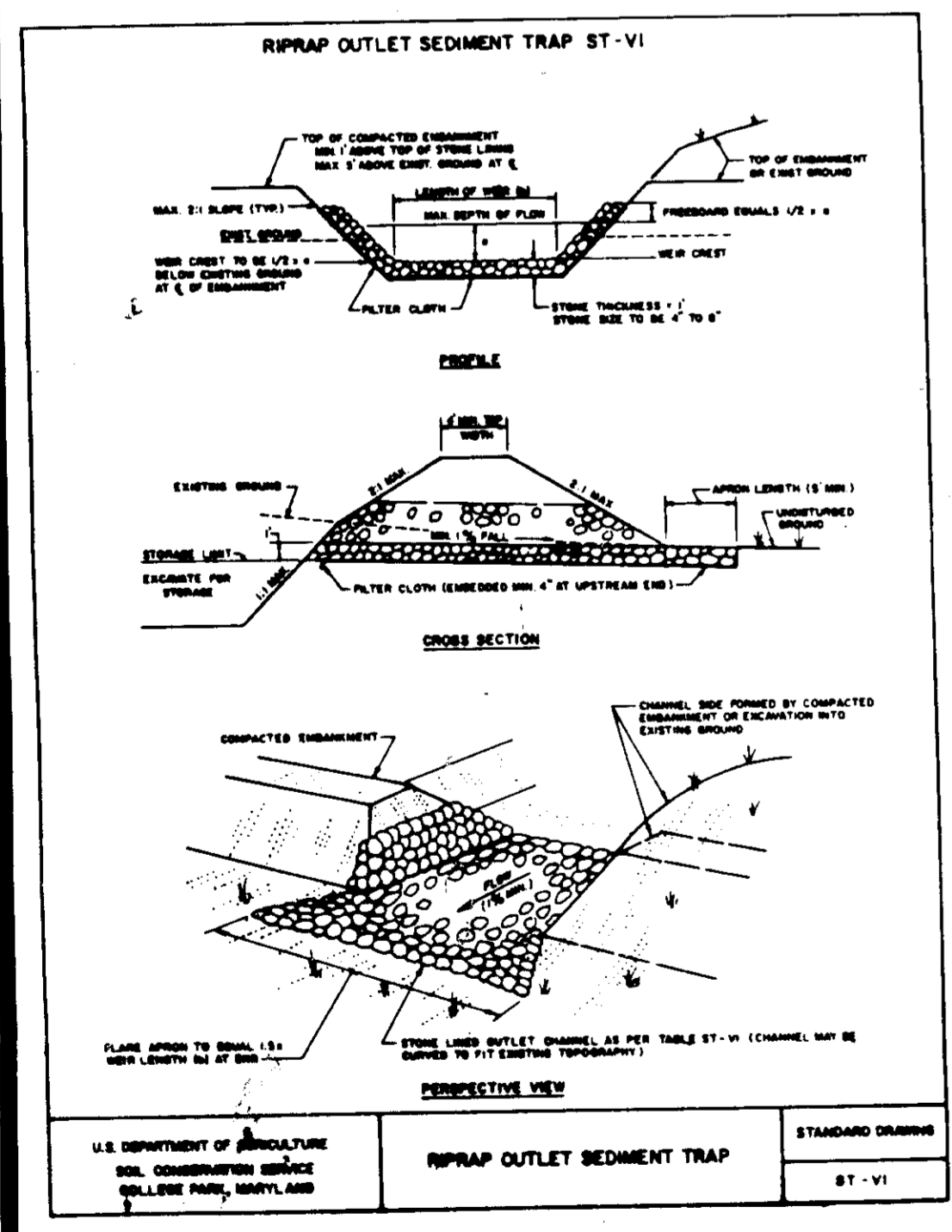
- CONSTRUCTION SPECIFICATIONS
1. Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
 2. Length - As required, but not less than 30 feet (except on a simple residence lot where a 30 foot minimum length would apply).
 3. Thickness - Not less than six (6) inches.
 4. Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
 5. Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a simple family residence lot.
 6. Surface Marker - All surface water flowing or directed toward construction entrances shall be piped across the entrance.
 7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public right-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanup of any measure used to trap sediment. All sediment applied, dropped, washed or tracked onto public right-of-way must be removed immediately.
 8. Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public right-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.
 9. Periodic inspection and needed maintenance shall be provided after each rain.



- CONSTRUCTION NOTES FOR FABRICATED SILT FENCE
1. Woven wire fence to be fastened securely to fence posts with wire ties or staples.
 2. Filter cloth to be fastened securely to woven wire fence with 105 gal.
 3. When the sections of filter cloth adjoin each other they shall be overlapped by six inches and nailed.
 4. Maintenance shall be performed as needed and material removed when bales develop in the silt fence.



- RESIDENTIAL DRIVEWAY ENTRANCE
 CLOSED SECTION WITH MODIFIED COMBINATION CURB AND GUTTER AND SIDEWALK
1. Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
 2. Length - As required, but not less than 30 feet (except on a simple residence lot where a 30 foot minimum length would apply).
 3. Thickness - Not less than six (6) inches.
 4. Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
 5. Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a simple family residence lot.
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 7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public right-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanup of any measure used to trap sediment. All sediment applied, dropped, washed or tracked onto public right-of-way must be removed immediately.
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 9. Periodic inspection and needed maintenance shall be provided after each rain.



- CONSTRUCTION SPECIFICATIONS FOR ST-VI
1. The area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
 2. The fill material for the embankment shall be free of roots or 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. Maximum height of embankment shall be five (5) feet, measured at centerline of embankment.
 3. All fill slopes shall be 2:1 or flatter; cut slopes 1:1 or flatter.
 4. Elevation of the top of any dike directing water into trap must equal or exceed the height of embankment.
 5. Storage area provided shall be figured by computing the volume available behind the outlet channel up to an elevation of one (1) foot below the level weir crest.
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 7. Stone used in the outlet channel shall be four (4) to eight (8) inches (rip-rap). To provide a filtering effect, a layer of filter cloth shall be embedded one (1) foot back into the upstream face of the outlet stone or a one (1) foot thick layer of two (2) inch or finer aggregate shall be placed on the upstream face of the outlet.
 8. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
 9. The structure shall be inspected after each rain and repaired as needed.
 10. Construction operations shall be carried out in such a manner that erosion and water pollution are minimized.
 11. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.
 12. Drainage area for this practice is limited to 15 acres or less.

ENGINEER'S CERTIFICATE

I certify that this plan for erosion and sediment control presents 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] 2/28/89

DEVELOPER'S/BUILDER'S CERTIFICATE

I certify that all development and construction will be done according to this plan and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Government Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on site inspection by H.S.C.D.

[Signature] 2/28/89

GLW GUTSCHICK LITTLE & WEBER, P.A.
 ENGINEERS, PLANNERS, SURVEYORS
 3908 NATIONAL DRIVE SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MD 20886
 TELEPHONE: (301) 421-4024

DATE	REVISION	BY	APP'R.

PREPARED FOR:
BERTON CONSTRUCTION CO.
 610 EXECUTIVE BLVD. SUITE 1000
 ROCKVILLE, MD 20858
 (301) 770-8800
 attn: BERNARD KLEIN

DETAILS AND NOTES
CRYSTAL SPRINGS ESTATES
 SECTION TWO
 ELECTION DISTRICT NO. 1
 HOWARD COUNTY, MARYLAND

SCALE	ZONING	G.L.W. FILE NO.
AS SHOWN	R-20	88-008
DATE	TAX MAP No.	SHEET
FEB. 1989	31	3 OF 3

SDP 89-171