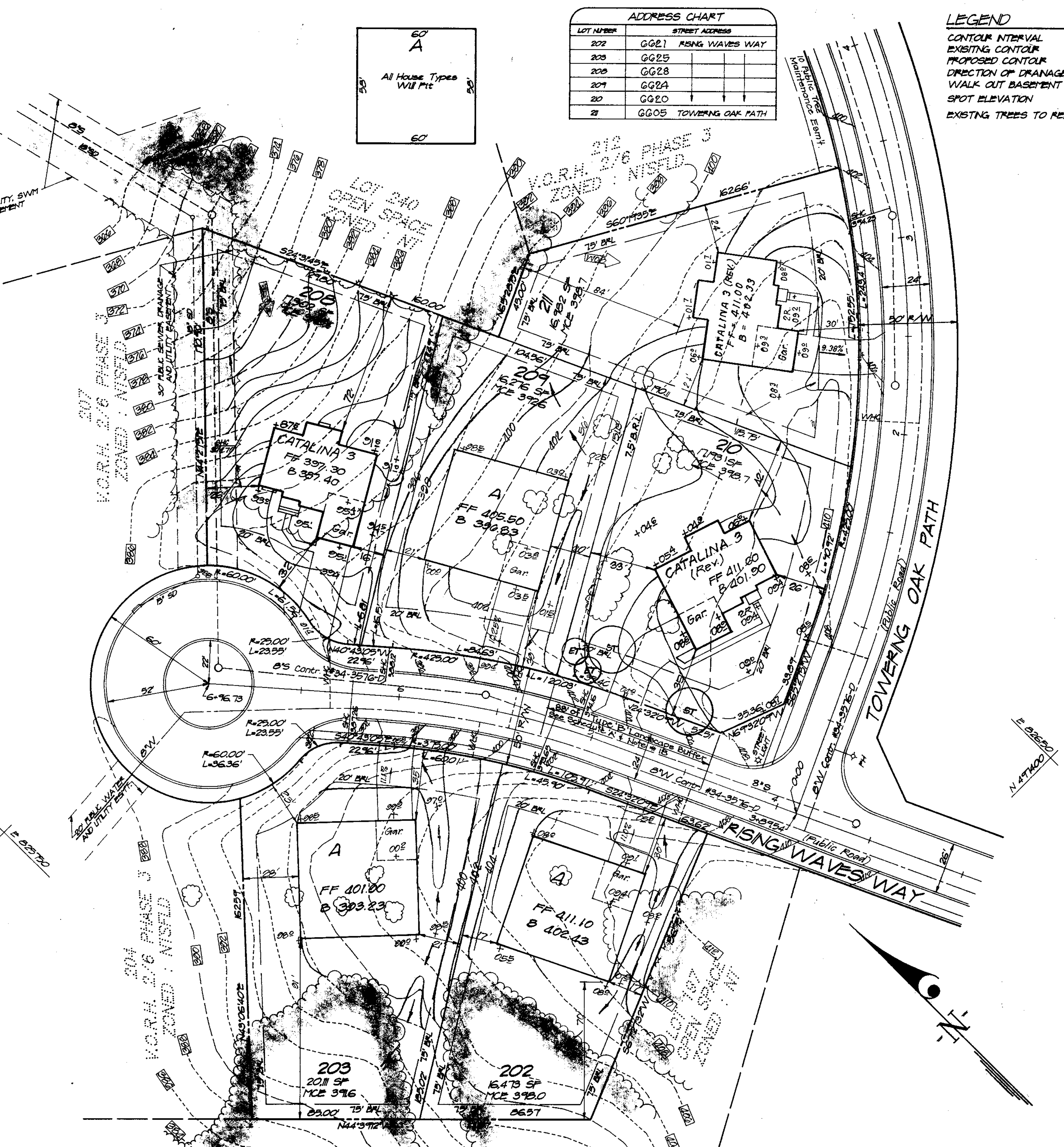
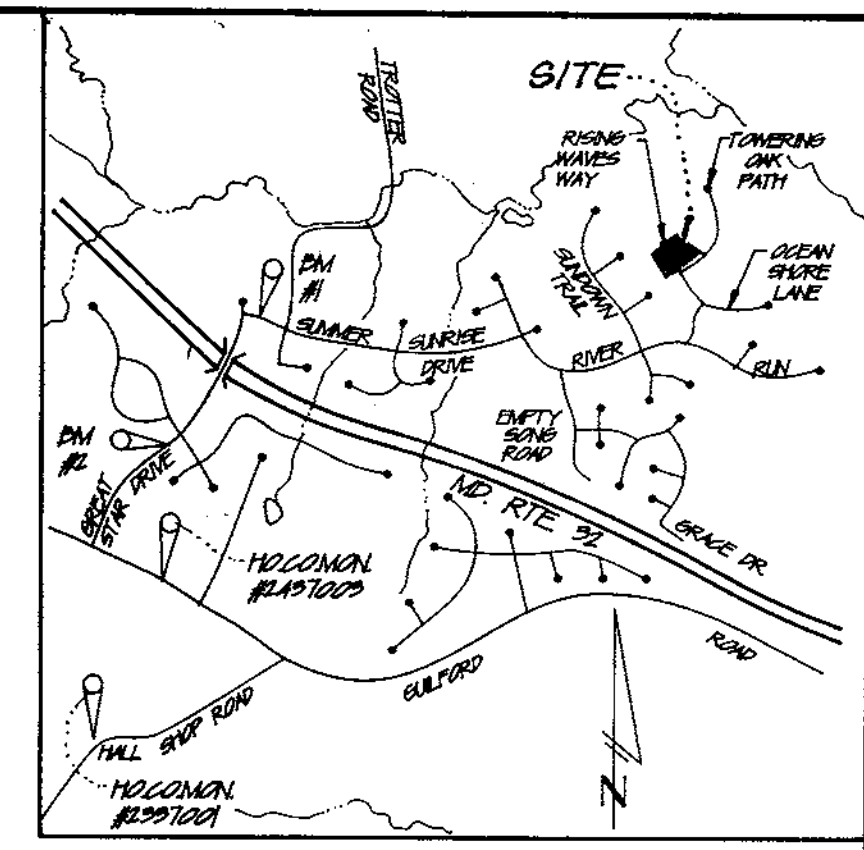


60' A
All House Types Will Fit
60'

LOT NUMBER	STREET ADDRESS
202	GG21 RISING WAVES WAY
203	GG25
206	GG28
207	GG2A
20	GG20
21	GG05 TOWERING OAK PATH

LEGEND
 CONTOUR INTERVAL 2 FT.
 EXISTING CONTOUR
 PROPOSED CONTOUR
 DIRECTION OF DRAINAGE
 WALK OUT BASIN
 SPOT ELEVATION
 EXISTING TREES TO REMAIN



- GENERAL NOTES:**
- Subject property is zoned NTSPLD per 10-18-93 Comprehensive Zoning Plan.
 - The total area included in this submission is 240 Acres.
 - The total number of lots included in this submission is 6.
 - Improvement to property: Single Family Detached.
 - The maximum lot coverage permitted is 30%.
 - Department of Planning and Zoning reference file numbers are: 5-9-03, P-9-17, P-16-18, P-16-08, 5-16-12.
 - Utilities shown as existing are taken from approved Water and Sewer plans Contract # 34-3576-D, approved Road Construction plans P-9-125.
 - Any damage to county owned rights-of-way shall be corrected at the developer's expense.
 - All roadways are public and existing.
 - The existing topography was taken from Road Construction Plans P-9-125 prepared by Riemen Muegge & Associates, Inc. in January 1997.
 - The coordinates shown herein are based upon the Howard County Geodetic Control which is based upon the Maryland State Plane Coordinate System - Howard County Monument Nos. 2337001 and 2337003.
 - The contractor shall notify the Department of Public Works/Division of Construction Inspection at (410) 313-1200 at least twenty-four (24) hours prior to the start of work.
 - The contractor shall notify "Miss Utility" at 1-800-257-7777 at least 48 hours prior to any excavation work.
 - For driveway entrance details, refer to Ho. Co. Design Manual Volume IV details R-6.03 and R-6.05.
 - Stormwater Management is provided per: P-9-125, Stormwater Management Quantity Control is provided by the Maryland Route 32 Stream Crossings. Water Quality is provided by publicly owned Bioretention Areas.
 - In accordance with PDF-Phase 209 Part VI, bay windows or chimneys not more than 10 feet in width may project not more than 4 feet into any setbacks; porches and decks may project not more than 3 feet into the front or rear setbacks.
 - SHC elevations shown are located at the property line.
 - This plan has been prepared in accordance with provision of Section 16-124 of the Howard County Code and the Landscape Manual. Financial surety for the req'd 4' landscape trees in the amount of \$100 is part of the builders grading permit application for Lot 210.

SHEET INDEX

DESCRIPTION	SHEET NO.
SITE DEVELOPMENT PLAN	1 of 3
SEEDING AND EROSION CONTROL PLAN	2 and 3 of 3

OWNER / DEVELOPER
 THE HOWARD RESEARCH AND DEVELOPMENT CORP.
 10273 LITTLE PATIENT PARKWAY
 COLUMBIA, MARYLAND 21044

SPECIAL NOTES:
 This plan is for house siting and lot grading only. Improvements shown within the rights-of-way on this SDP are not to be used for construction. For construction see approved Road Construction Plans P-9-125 and/or approved Water and Sewer Contract #34-3576-D.

SUBDIVISION NAME	SECTION/AREA	LOTS/PARCELS
COLUMBIA VILLAGE OF RIVER HILL	TWO/SIX	202, 203, 206 THRU 21
PLAT NO. 1236	BLOCK NO. 5	ZONE NTSPLD
TAX MAP NO. 35	ELECTION DIST. 5TH	CENSUS TRACT 6055
WATER CODE H-2	SEWER CODE 6652500	

CLARK • FINEFROCK & SACKETT, INC.
 ENGINEERS • PLANNERS • SURVEYORS
 7135 MINSTREL WAY • COLUMBIA, MD. 21045 • (410) 381-7500 - BALTO. • (301) 821-8100 - WASH.

DESIGNED	DATE	SCALE
JE	11/13/97	1/30'
DRAWN	DATE	DRAWING
PS	11/13/97	1 of 3
CHECKED	DATE	JOB NO.
JTW	11/13/97	TT-054
DATE	FILE NO.	
11/13/97	97-054x	

SCHEDULE A PERIMETER LANDSCAPE EDGE

Category	Adjacent to Roadway
Landscape Type	B
Frontage/Perimeter	88
Number of Plants Required Shade Trees (1/50) Evergreen Trees (1/40) Shrubs	2
Number of Plants Provided Shade Trees Evergreen Trees	*

COMMENTS: PLANTINGS WILL BE PROVIDED PER THE NEW TOWN ALTERNATIVE COMPLIANCE METHOD. (SEE GENERAL NOTE #18)

SEE NOTE #18 FOR SURETY

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 11/13/97
 Chief, Development Engineering Division

[Signature] 11/13/97
 Chief, Division of Land Development

[Signature] 11/13/97
 Director

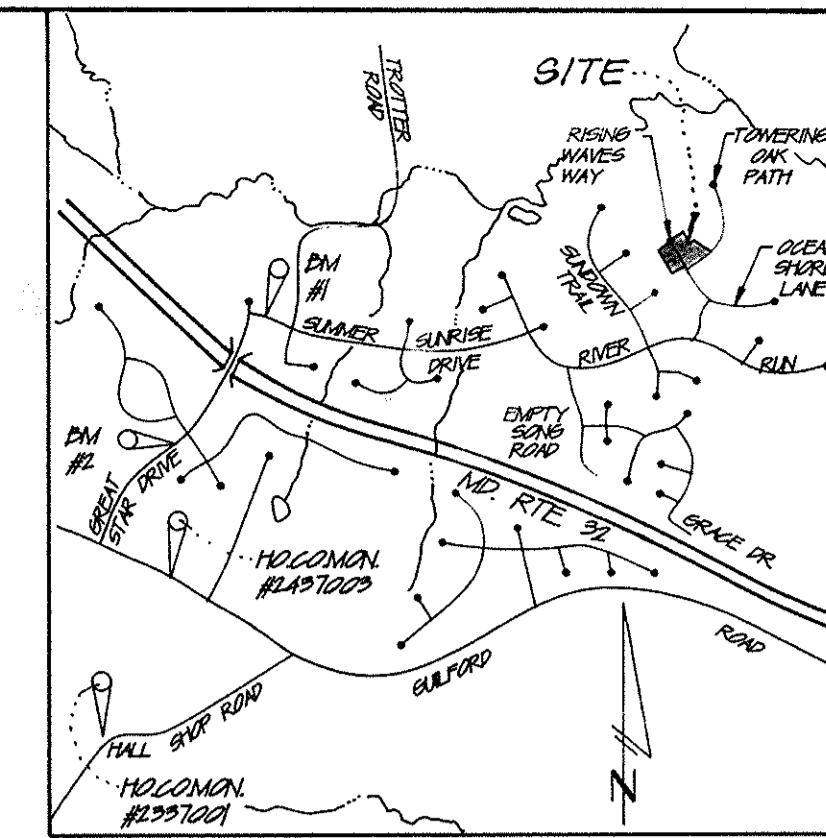
REVISIONS

NO.	DESCRIPTION	DATE
3	Rev. hse. 4 and lot 211 from A Box to Catalina 3 (Rev.)	10-22-98
2	Rev. hse. 4 and lot 210 to show As-Built Cont.	9-23-98
1	Rev. hse. 4 and lot 208 per As-Built Conditions	5-20-98



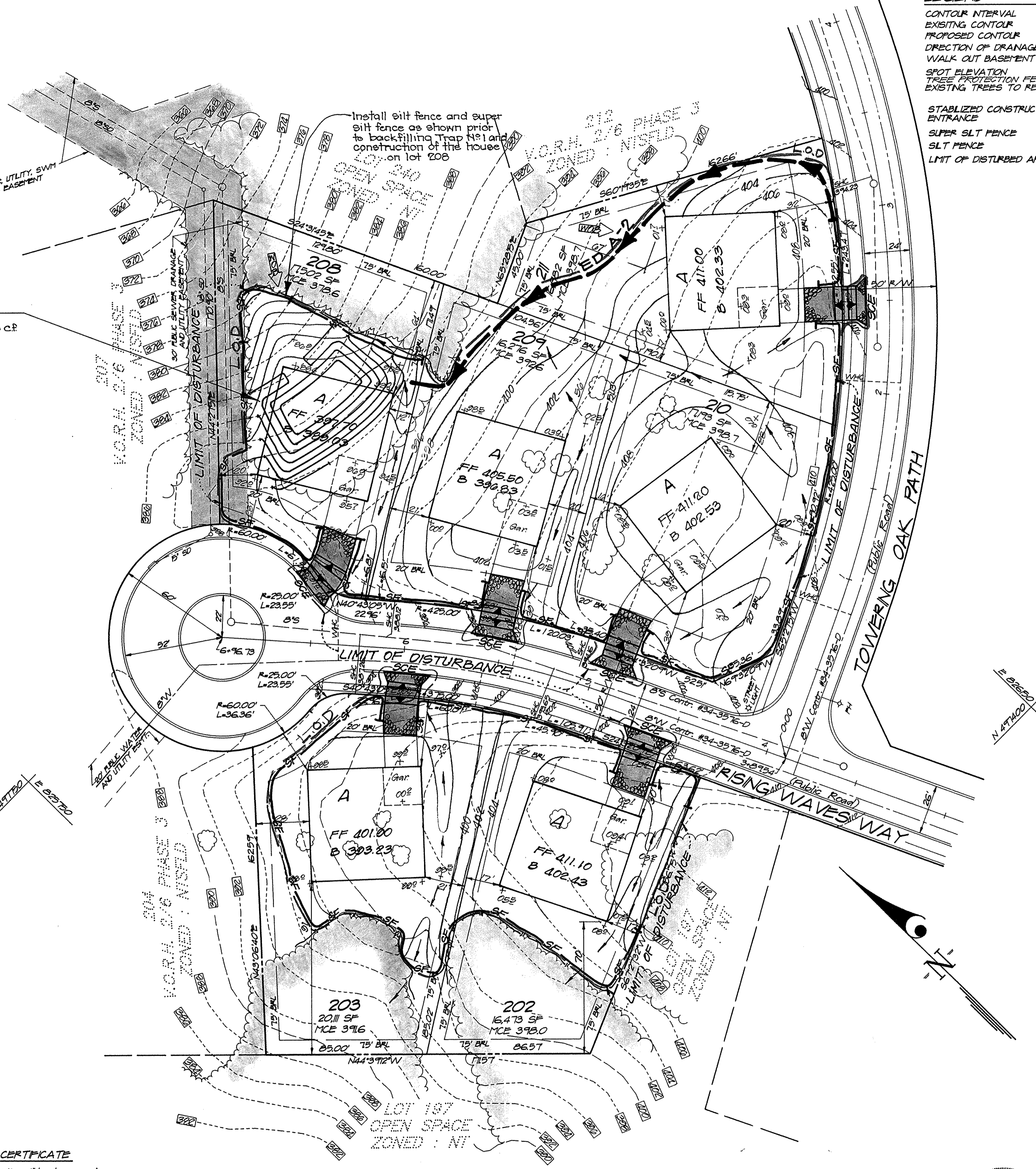
LEGEND

- CONTOUR INTERVAL 2 FT.
- EXISTING CONTOUR
- PROPOSED CONTOUR
- DIRECTION OF DRAINAGE
- WALK OUT BASEMENT
- SPOT ELEVATION
- TREE PROTECTION FENCE
- EXISTING TREES TO REMAIN
- STABILIZED CONSTRUCTION ENTRANCE
- SUPER SLT FENCE
- SLT FENCE
- LIMIT OF DISTURBED AREA



TRAP #1 SOST ST-11

Max. D.A. = 1.3 Ac.
 Storage Req'd = 1.3 (3600) = 4680 cu ft
 Storage Provided = 4700 cu ft
 Storage Depth = 4' (2' Dry, 2' Wet)
 Top of Embankment = 889.0
 Top of Stone Weir = 884.0
 Clean out elevation = 881.0
 Bottom elevation = 880.0
 Bottom dimensions = 16' x 42'
 2:1 side slopes
 L = 8'



Reviewed For HOWARD S.C.D.
 and meets Technical Requirements
 Chief, Summit 11/14/97
 Date
 U.S. Natural Resources Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 John K. Roberts 11/15/97
 Approved

DEVELOPER'S/BUILDER'S CERTIFICATE

"We certify that all development and construction will be done according to this plan of development and plan for sediment and erosion control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment 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."
 NAME: John K. Roberts DATE: 9-18-97

ENGINEER'S CERTIFICATE

I hereby certify that this plan for Sediment and Erosion 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.
 G. Nelson Clark 9-18-97
 G. NELSON CLARK DATE



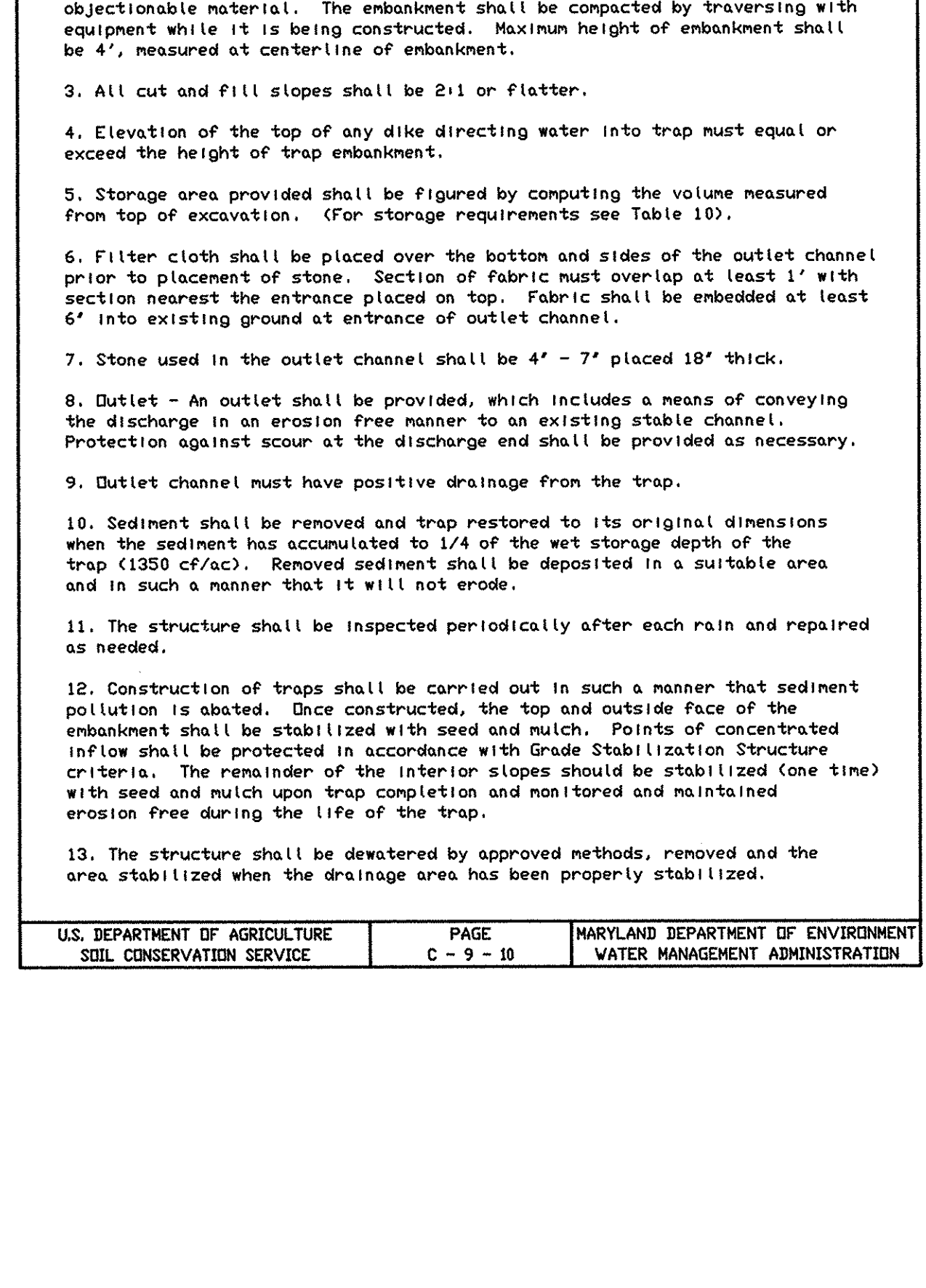
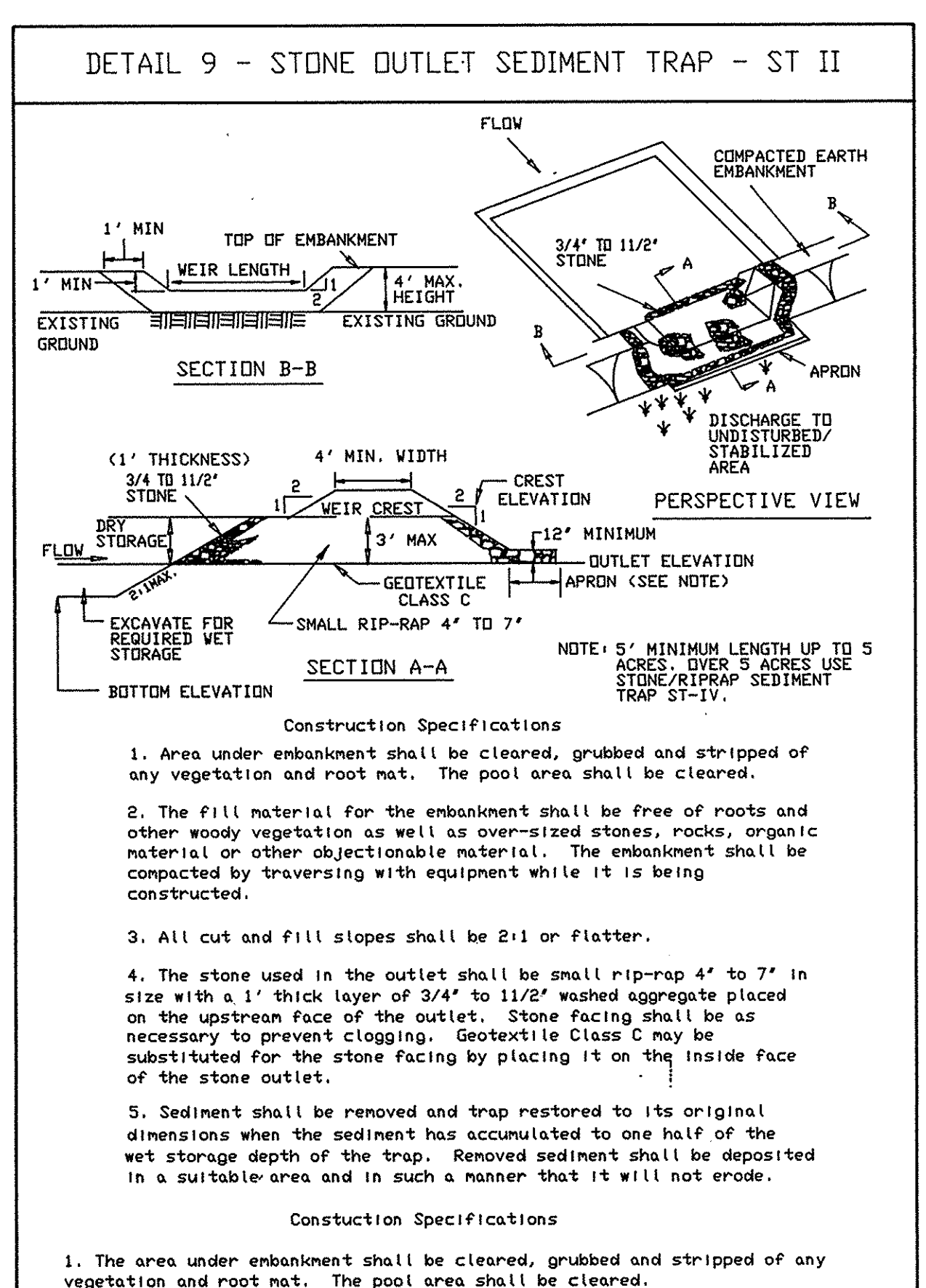
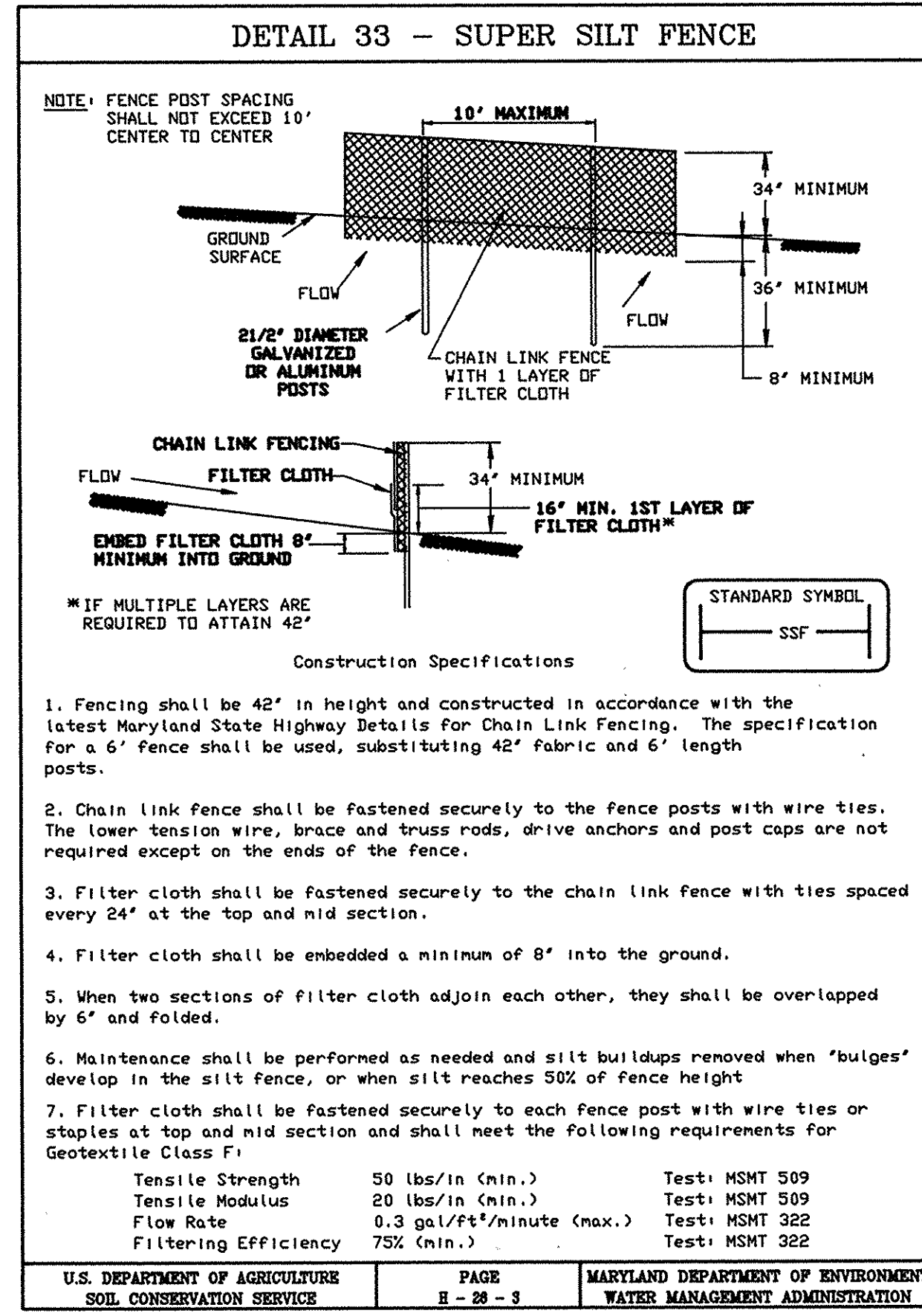
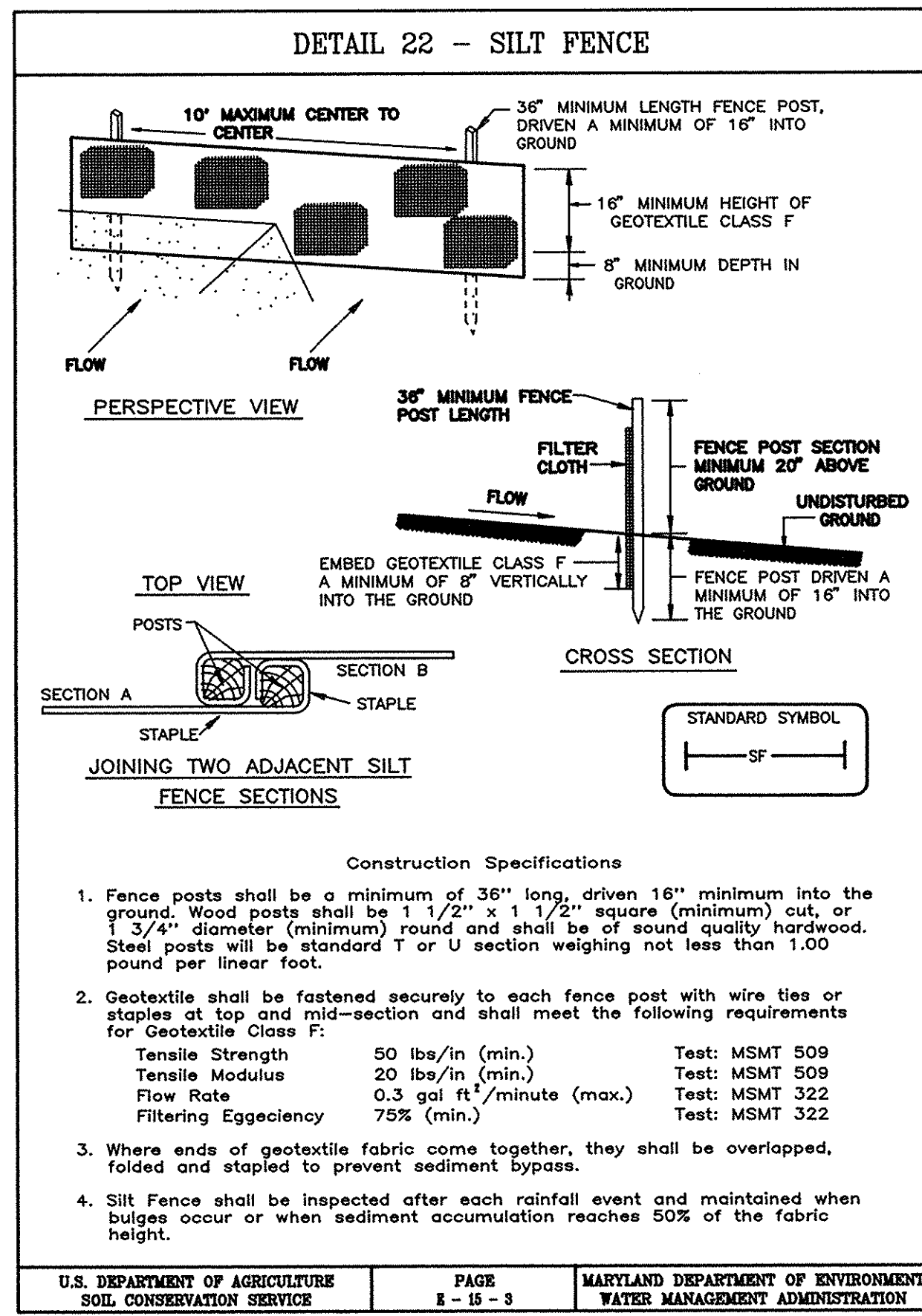
APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Chief, Development Engineering Division 11/12/97
 Chief, Division of Land Development 11/13/97
 Director 11/14/97

CLARK • FINEFROCK & SACKETT, INC.
 ENGINEERS • PLANNERS • SURVEYORS
 7135 MINSTREL WAY • COLUMBIA, MD. 21045 • (410) 381-7500 - BALTO. • (301) 621-8100 - WASH.

DESIGNED	TD	SCALE	1"=30'
DRAWN	FS	DRAWING	2 of 3
CHECKED	JM	JOB NO.	97-054
DATE	9-18-97	FILE NO.	97-054

SEDIMENT AND EROSION CONTROL PLAN
 LOTS 202, 203, 208 THRU 211
COLUMBIA
 VILLAGE OF RIVER HILL
 SECTION 2 AREA 6 PHASE 3
 5TH (5th) ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

FOR: ALLAN HOBBS, Inc.
 12860 Old Columbia Road Rivers Corporate Park
 Columbia, Maryland 21046



PERMANENT SEEDING NOTES

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, disking or other acceptable means before seeding, if not previously loosened.

SOIL AMENDMENTS: In lieu of soil test recommendations, use one of the following schedules:

- Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs./100 sq.ft.) and 800 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil. At the time of seeding, apply 400 lbs. per acre 30-0-0 ureamorph fertilizer (9 lbs./1000 sq.ft.).
- Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs./100 sq.ft.) and apply 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 periods March 1 thru April 30, and August 1 thru October 15, seed with 80 lbs. per acre (1.4 lbs./1000 sq.ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs. Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (0.6 lbs./1000 sq.ft.) of wavy leaved grass. During the period of October 16 thru February 28, protect site by Option (1) 2 tons per acre well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use soil. Option (3) Seed with 80 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 unrotted 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 5 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.

TEMPORARY SEEDING NOTES

SEEDBED PREPARATION: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not 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 1 1/2 bushel per acre of annual ryegrass (3.2 lbs./1000 sq.ft.) for the period May 1 thru August 14, seed with 3 bushels of annual ryegrass (9.6 lbs./1000 sq.ft.) for the period November 1 thru February 28, protect site by applying 2 tons per acre well anchored straw mulch and seed as soon as possible in the spring, or use sod.

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