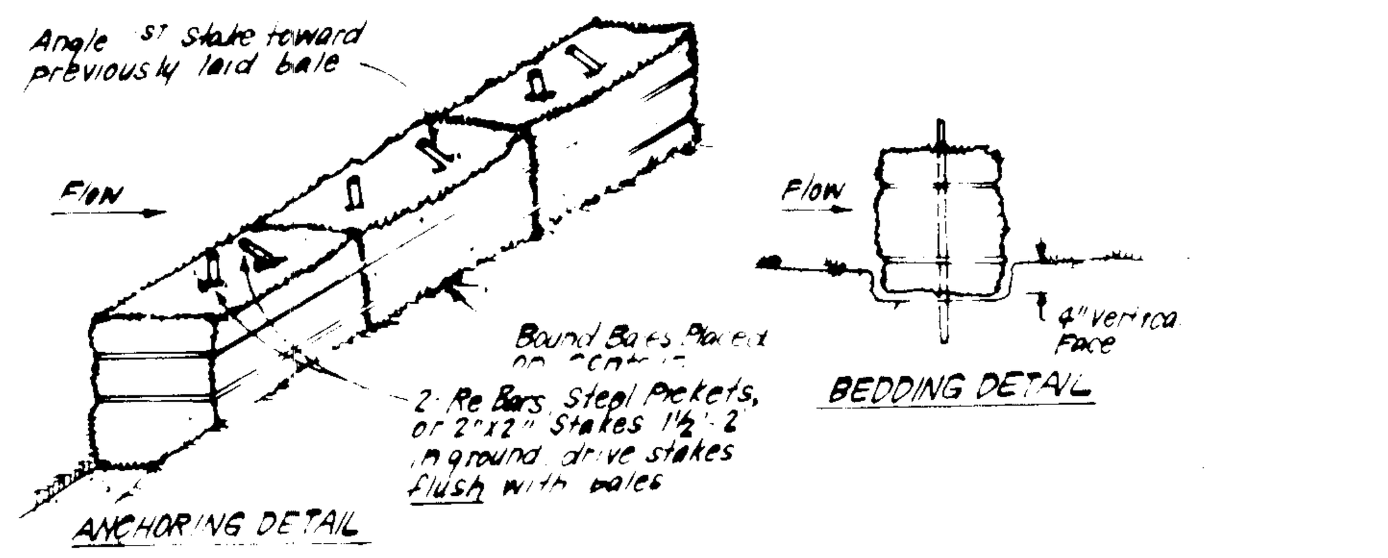
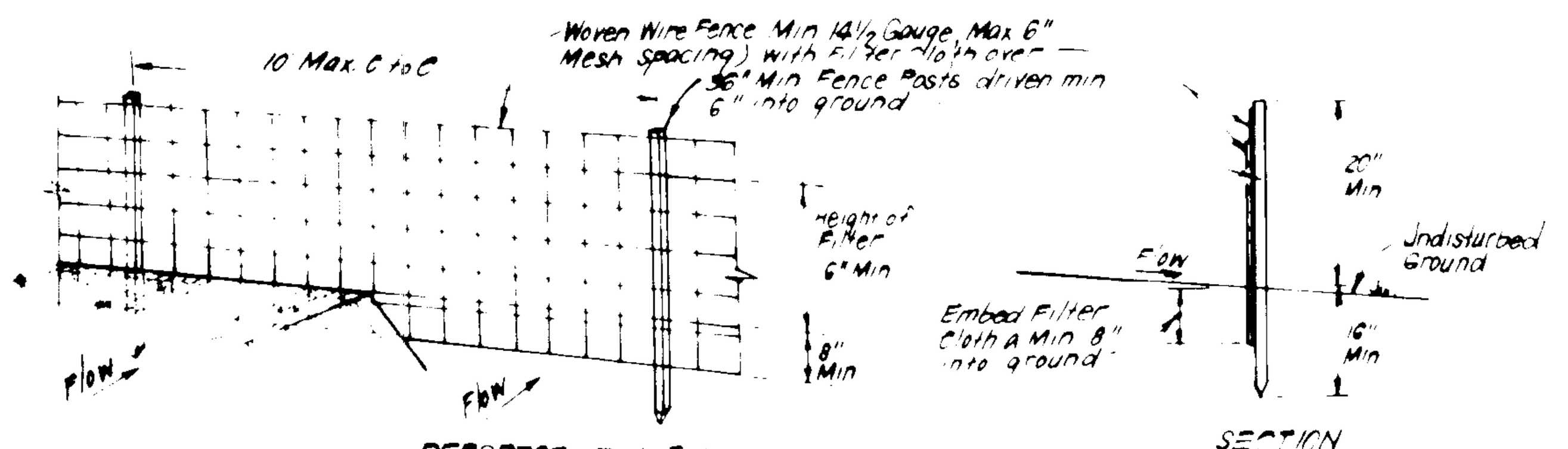


CONSTRUCTION SPECIFICATIONS:

1. 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
2. Each bale shall be embedded in the soil a min of 4" and placed so the bindings are horizontal
3. Bales shall be securely anchored in place by either 2 stakes or re bars driven thru the bale. The 1st stake in each bale shall be driven toward the previously laid bale at an angle to force the bales together. Stakes shall be driven flush with the bale
4. Inspection shall be frequent and repair replacement shall be made promptly as needed
5. 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



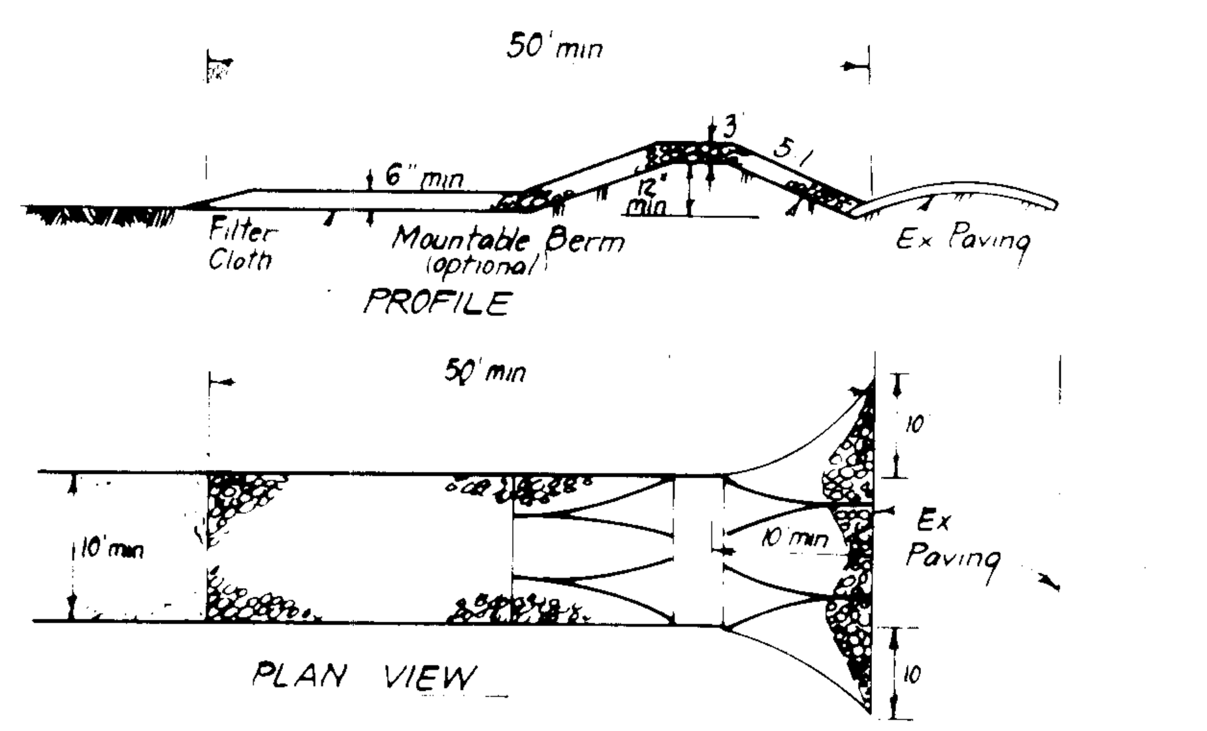
CONSTRUCTION SPECIFICATIONS:

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 ties spaced every 24" at top and mid section
3. When 2 sections of filter cloth adjoin each other they shall be overlapped by 6" and folded
4. Maintenance shall be performed as needed and material removed when "Bulges" develop in Silt Fence

POSTS: Steel either T or U Type or 2" Hardwood
FENCE: Woven Wire, 14½ Gage 6" Max Mesh Opening
FILTER CLOTH: Filter X Mirafi 100X Stabilinka, T140N or Approv equal
PREFABRICATED UNIT: Geofab, Envirofence or Approv equal

SILT FENCE DETAIL (S)

NO SCALE

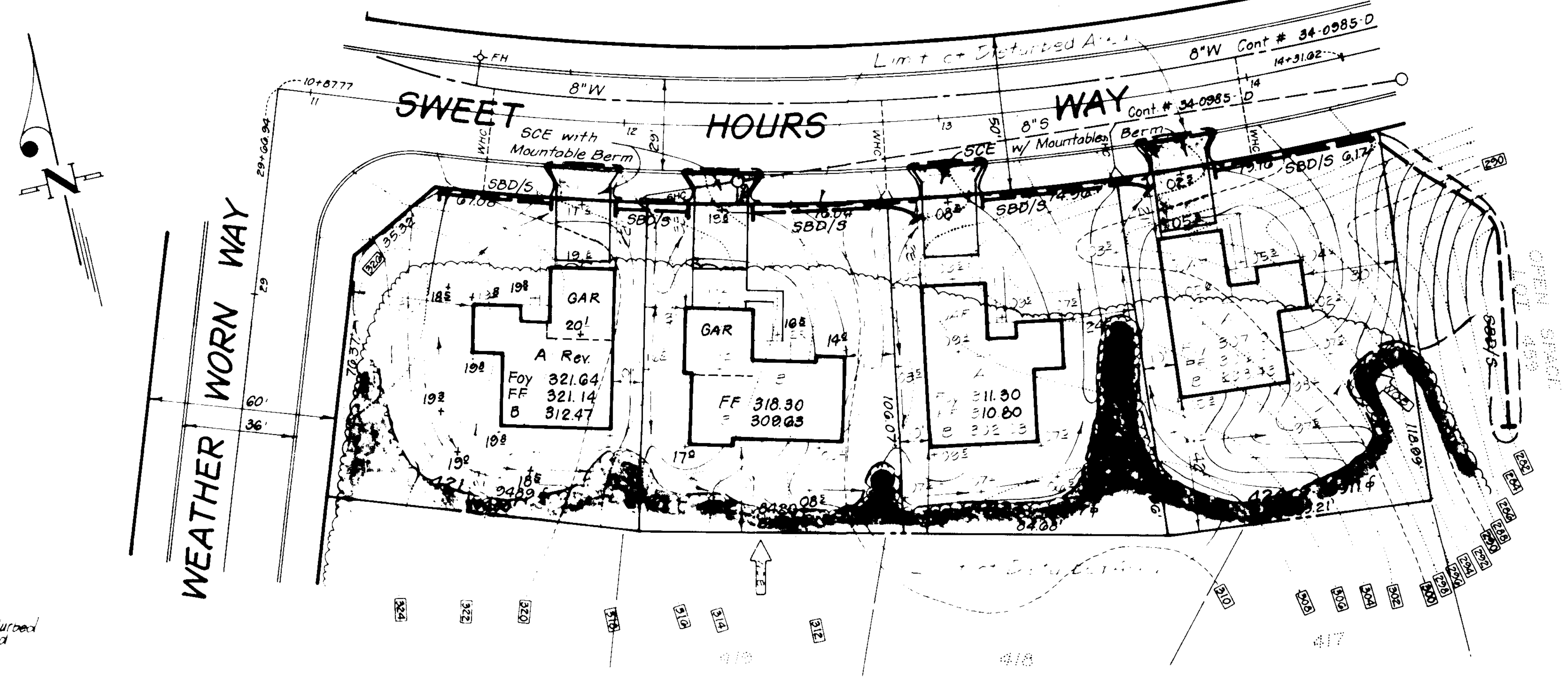


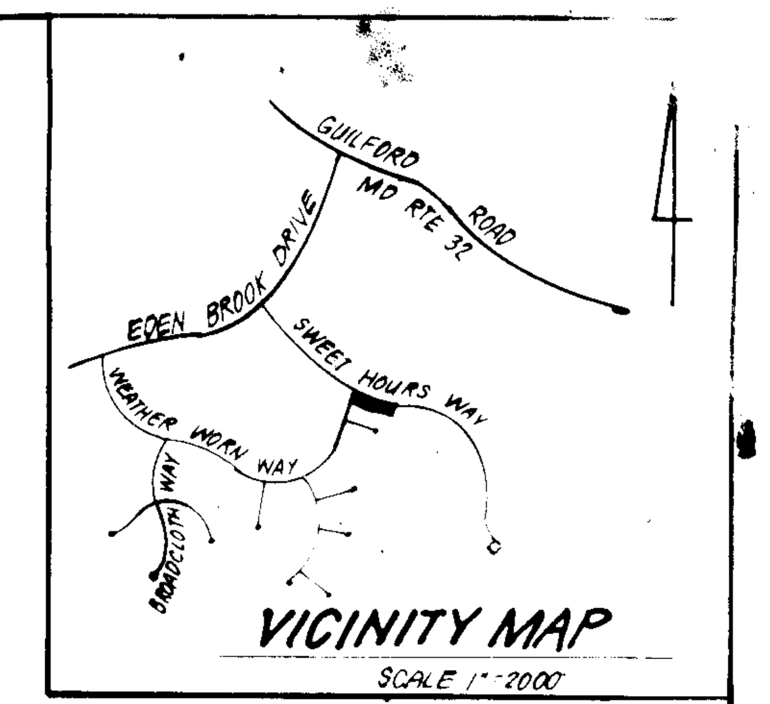
CONSTRUCTION SPECIFICATIONS:

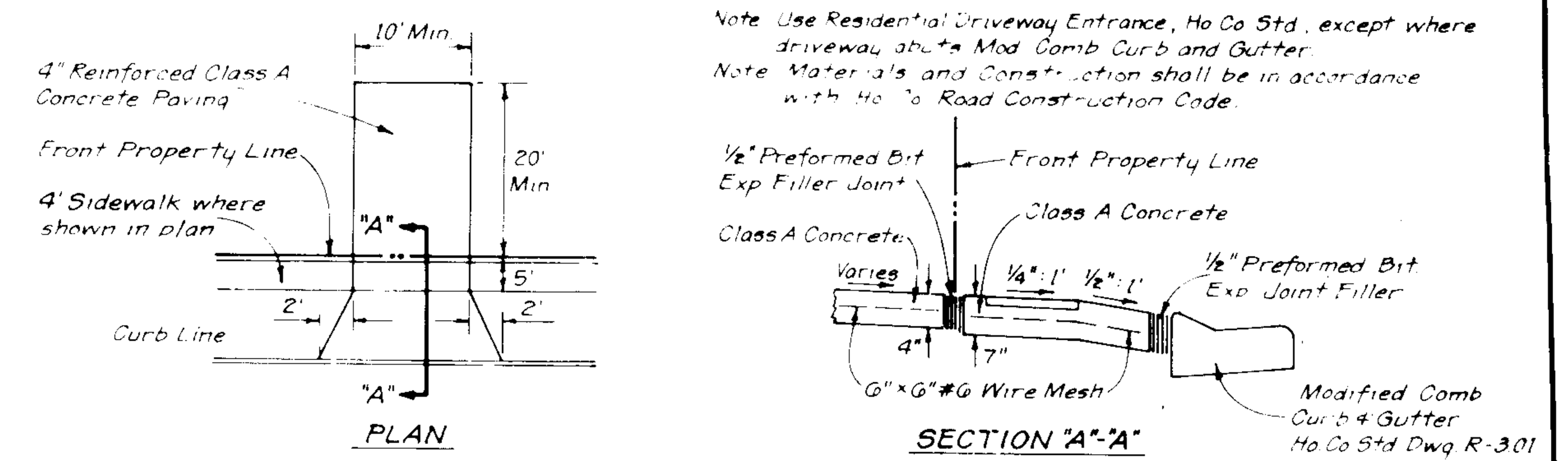
1. Stone size - Use 2" stone, or reclaimed or recycled concrete equivalent.
2. Length - As required, but not less than 50 feet except on a single residence lot where a 30 foot minimum length would apply.
3. Thickness - Not less than six (6) inches.
4. Width - Ten (10) foot minimum, but not less than 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 single family residence lot.
6. Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
7. 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 and repair and or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
8. Washing - Wheels shall be cleaned to remove sediment prior to entrance onto 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
9. Periodic inspection and needed maintenance shall be provided after each rain

STABILIZED CONSTRUCTION ENTRANCE (SCE)

NO SCALE

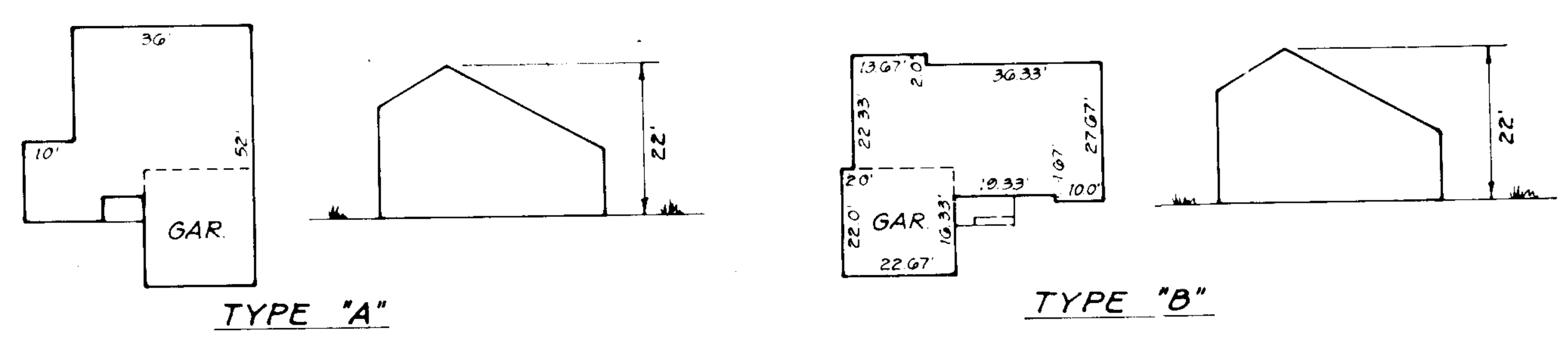






DRIVEWAY ABUTTING MODIFIED COMB. CURB AND GUTTER

No Scale



TYPICAL HOUSES

No Scale

LEGEND

1. Contour Interval 2 Ft.
2. Existing Contour 310
3. Proposed Contour 310
4. Spot Elevation +16²
5. Direction of Drainage
6. Walk-Out Basement WOB
7. Ex Trees to be Retained
8. Stabilized Construction Entrance SCE
9. Straw Bale Dike/Silt Fence SBD/S

NOTES

1. The Land contained 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, Parts II & III.
3. All coordinates shown hereon are based on Howard County Geodetic Control Traverse which is based upon the Maryland State Plane Coordinate System.
4. All roadways are public and existing
5. Any damage to County owned Rights-of-Way or paving shall be corrected at the owner's expense
6. ~~Total~~ number of Lots : 4

DEVELOPER'S/BUILDER'S CERTIFICATE

"I/We certify that all development and construction will be done according to this 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."

Robert C. Goodier — 4-15-85

Signature of Developer/Builder — Date

ROBERT C. GOODIER

Reviewed for HOWARD S.C.D.
Name
and meets Technical Requirements
James M. [signature] 4/22/85
Signature Date
U.S. Soil Conservation Service

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

Stephen L. [signature] 4/22/85
APPROVED DATE

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.

4-15-85 — [signature]
DATE — G. NELSON CLARK

STATE OF MARYLAND — G. NELSON CLARK — NO. 7136 — REGISTERED PROFESSIONAL ENGINEER

SEDIMENT CONTROL 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. (992-2437)
2) All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
3) Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days as 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, Chaper 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) sod (Sec. 54), temporary seeding (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	0.8395	Acres
Area Disturbed	0.7248	Acres
Area to be roofed or paved	0.2141	Acres
Area to be vegetatively stabilized	0.5107	Acres
Total Cut	1600	Cu. yds
Total Fill	2300	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 DPW sediment control inspector.
10) On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion 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-Sold" 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 fence equals 340 L.F.

CONSTRUCTION SEQUENCE:

A. Obtain Grading Permit and Install Sediment and Erosion Control Devices and Stabilize.
B. Excavate for foundations and Rough Grade.
C. Construct Structures, Sidewalks and Driveways.
D. Final Grade and stabilize in accordance with Stds. & Specs.
E. Upon approval of the sediment control inspector, remove sediment and erosion control and stabilize.

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, discing or other acceptable means before seeding.

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 ft) 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 30-0-0 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 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 (.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 1½ 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 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.

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redisturbed 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.

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 2½ bushel per acre of annual rye (3.2 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 3 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 1½ 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 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 rates and methods not covered.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
[signature] — 4-25-85
COUNTY HEALTH OFFICER — DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
[signature] — 4-25-85
PLANNING DIRECTOR — DATE
[signature] — 4-25-85
CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[signature] — 4-24-85
DIRECTOR — DATE
[signature] — 4-24-85
CHIEF BUREAU OF ENGINEERING — DATE

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 4-11-85

ADDRESS CHART		
LOT NO.	STREET	ADDRESS
421	7602	Sweet Hours Way
422	7606	" " "
423	7610	" " "
424	7614	" " "

SUBDIVISION NAME				SECT./AREA	LOTS/PARCEL
COLUMBIA V.O.K.C.				2 / 3	421-424
PLAT or L/F	BLOCK #	ZONE	TAX/ZONE MAP	ELEC. DIST.	CENSUS TR.
5049	13	New Town S.F.M.D.	41 + 42	6th	6062
WATER CODE			SEWER CODE		
E16			634000		

CFS CLARK · FINEFROCK & SACKETT
ENGINEERS • PLANNERS • SURVEYORS
11315 LOCKWOOD DRIVE • SILVER SPRING MARYLAND 20904 • (301) 593-3400

DESIGNED JME JLS	SITE DEVELOPMENT AND SEDIMENT AND EROSION CONTROL PLAN LOTS 421 THRU 424 **COLUMBIA** VILLAGE OF KINGS CONTRIVANCE SECTION 2 AREA 3 PHASE 3 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE 1" = 30'
DRAWN LAI		DRAWING 1 of 1
CHECKED JME JLS		JOB NO. 85-018
DATE March '85	FOR: R.C. GOODIER BUILDERS, INC. 233 Deep Dale Drive Timonium, Maryland 21093	FILE NO. 85-018 X

S.D.P. 85-150C