

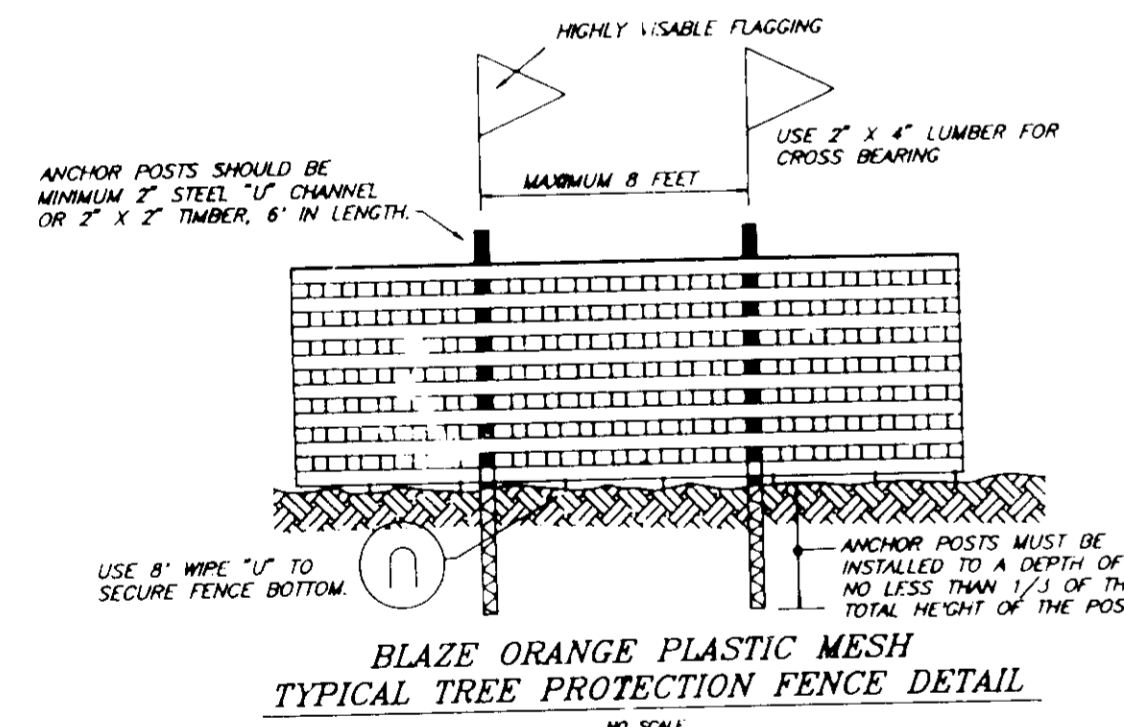
SEDIMENT AND EROSION CONTROL NOTES

- A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permitting prior to the start of any construction (915-8857).
- All erosion and sediment control practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECS FOR SOIL EROSION AND SEDIMENT CONTROL.
- 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, perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.
- All sediment traps/basins shown must be fenced and warning signs posted around their perimeters in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- 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 temporary seedings (Sec. 52) 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.
- 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.
- SITE ANALYSIS:**
 - Total Area of Site: 0.66 AC
 - Area Disturbed: 0.60 AC
 - Area to be roofed or paved: 0.15 AC
 - Area to be vegetatively stabilized: 0.51 AC
 - Total Cut: 12.5 YD
 - Total Fill: 2.2 YD
 - Offsite Waste/Borrow Area Location: _____
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment control must be provided, if deemed necessary by the Howard County DPW Sediment Control Inspector, 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.
- All pipes to be blocked at the end of each day (see detail this sheet).
- The total amount of silt fence = 735 L.F.

It is the responsibility of the contractor to identify the spoil/borrow site and notify and gain approval from the sediment control inspector of the site and it's grading permit number at the time of construction.

CONSTRUCTION SEQUENCE	NO. OF DAYS
1. Obtain grading permit	7
2. Install tree protection fence	7
3. Install sediment and erosion control devices and stabilize	14
4. Excavate for foundations, rough grade and temporarily stabilize	30
5. Construct structures, sidewalks and driveways	60
6. Final grade and stabilize in accordance with Site and Specs.	14
7. Upon approval of the sediment control inspector, remove sediment and erosion control devices and stabilize	7

* Maintain, as necessary, existing sediment control devices where shown on plan.



- NOTES:**
- Forest protection device only.
 - Retention area will be set as part of the review process.
 - Boundaries of retention area should be staked and flagged prior to installing device.
 - Root damage should be avoided.
 - Protection signage may also be used.
 - Fence should be maintained throughout construction.

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

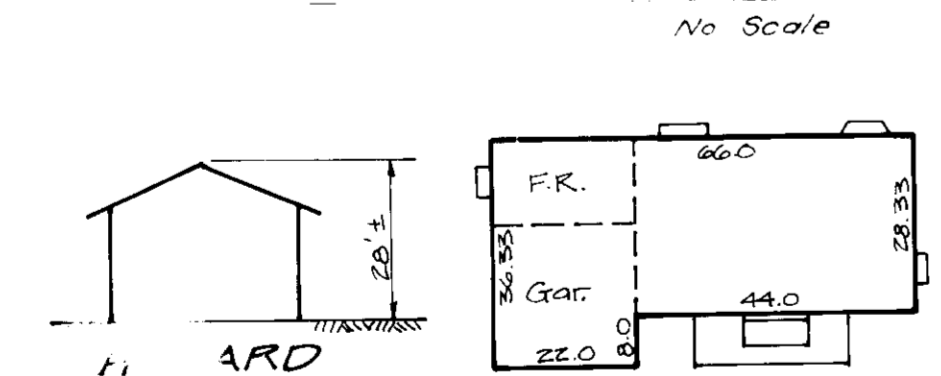
- SEEDBED PREPARATION:** Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened.
- SOIL AMENDMENTS:** In lieu of soil test recommendations, use one of the following schedules:
- 1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq ft.) before seeding and 500 lbs per acre 10-10-10 fertilizer (14 lbs./1000 sq ft.) before seeding. Narrow or disc into upper three inches of soil. At the 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. Narrow 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 (0.5 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 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 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 reseeding.

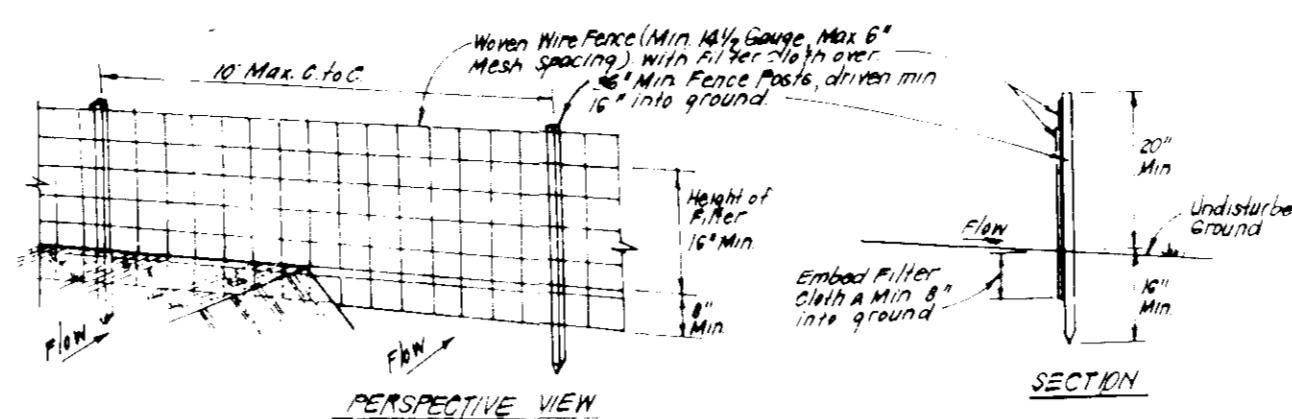
TEMPORARY SEEDING NOTES

- SEEDBED PREPARATION:** Loosen upper three inches of soil by raking, discing 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 2 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 lbs per acre of weeping lovegrass (0.7 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 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.
- REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

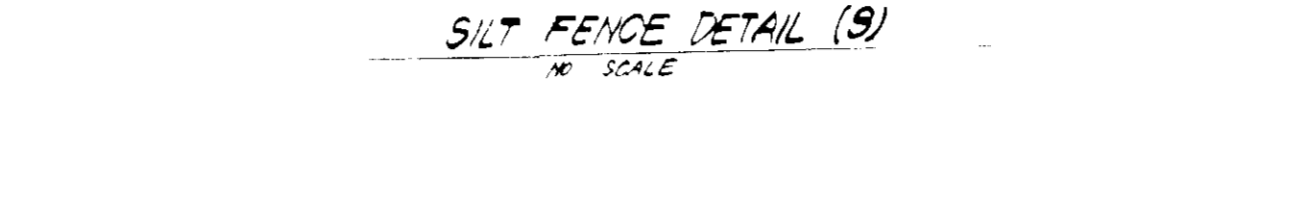
STABILIZED CONSTRUCTION ENTRANCE (SCE)



- CONSTRUCTION SPECIFICATIONS**
1. Stone Size - Use 3" stone, or reclaimed or recycled concrete equivalent.
 2. Length - As required, but not less than 30 feet (except on a single residential lot where a 15 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 maintainable base with six slopes will be permitted.
 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 cleanout 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 SPECIFICATIONS:**
1. Wire mesh fence to be installed securely to fence posts with wire ties or staples.
 2. Filter Cloth to be fastened securely to seven wire fence with ties spaced every 36" at top and mid section.
 3. When 2 sections of filter cloth are joined they shall be fastened with 2" wide fabric tape.
 4. Maintenance shall be performed as needed and material removed when "pockets" develop in silt fence.
- POSTS:** Steel, either T-Post Type or Hardwood.
- FENCE:** Wire Mesh, 1/4" Gauge, 6" Max. Mesh Opening.
- FILTER CLOTH:** Filter Cloth, 100% Substrata, THOMAS APPROVED.
- PREPARED UNIT:** See Note 1. Entrance 2' Approx. wide.

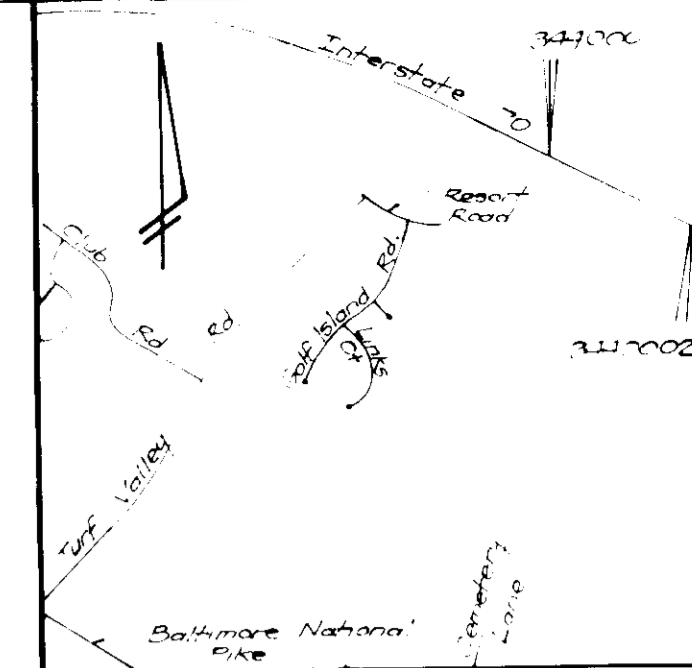


LEGEND

- Contour Interval: 2 FT
- Existing Contour: ---
- Proposed Contour: - - - -
- Spot Elevation: +10.0
- Direction of Drainage: [Arrow]
- Walk out Basement: [Symbol]
- Trees to be Saved: [Symbol]
- Tree Protection Fence: [Symbol]
- Silt Fence: [Symbol]
- Stabilized Construction Entrance: [Symbol]

BENCHMARKS

N 3440001	N 534735 478	Elev. 486.341
	E 836286 297	
N 3440002	N 533593 800	Elev. 462.306
	E 837983 249	



GENERAL NOTES:

1. Subject property is zoned: PGCC-1 per 10 18 93 Comprehensive Zoning Plan.
2. The total area included in this submission is: 0.66 AC.
3. The total number of lots included in this submission are: 2.
4. Improvement to property: Single family detached.
5. SHC elevations shown are located at the property line.
6. Department of Planning and Zoning reference file numbers are: 94-06, 94-10, 94-15, 94-16, 94-20, 94-21, 94-22, 94-23, 94-24, 94-25, 94-26, 94-27, 94-28, 94-29, 94-30, 94-31, 94-32, 94-33, 94-34, 94-35, 94-36, 94-37, 94-38, 94-39, 94-40, 94-41, 94-42, 94-43, 94-44, 94-45, 94-46, 94-47, 94-48, 94-49, 94-50, 94-51, 94-52, 94-53, 94-54, 94-55, 94-56, 94-57, 94-58, 94-59, 94-60, 94-61, 94-62, 94-63, 94-64, 94-65, 94-66, 94-67, 94-68, 94-69, 94-70, 94-71, 94-72, 94-73, 94-74, 94-75, 94-76, 94-77, 94-78, 94-79, 94-80, 94-81, 94-82, 94-83, 94-84, 94-85, 94-86, 94-87, 94-88, 94-89, 94-90, 94-91, 94-92, 94-93, 94-94, 94-95, 94-96, 94-97, 94-98, 94-99, 94-100.
7. Utilities shown as existing are taken from approved water and sewer plan Contract # 24 3318-D, approved road construction plans F-94-06, and actual field survey.
8. Any damage to county owned rights-of-way shall be corrected at the developer's expense.
9. Stormwater Management Facilities proposed are extended detention.
10. All roadways are public and existing.
11. The existing topography shown was taken from Road Construction Plans F-94-06 prepared by Macki, Mildenbergs & Assoc.
12. The coordinates shown hereon are based upon the Howard County Geodetic Control, which is based upon the Maryland State Plane Coordinate System - Howard County Monument Nos. 3440001 and 3440002.
13. The contractor shall notify the Department of Public Works/Division of Construction Inspection at 410-313-1850 at least twenty-four (24) hours prior to the start of work.
14. The contractor shall notify "Miss Utility" at 1-800-257-1777 at least 48 hours prior to any excavation work.
15. For driveway entrance details refer to Ho Co. Design Manual Volume II, Std. Detail R-6.03.

SPECIAL NOTES:

This plan is for house siting and lot grading only. Improvements shown within the rights-of-way on this S.D.P. are not to be used for construction. For construction, see approved Road Construction Plans F-94-06 and/or approved Water and Sewer Plans Contract No. 24-3318-D.

NO	REVISIONS	Date
1	Revise Existing Topography to reflect F-94-06	12-20-94
2	Revise Ex. S.F. lot 98 per recorded plans	1-11-94
3	Rev. per Ho Co. Comment Letter dated 1-2-95	1-11-95
4	REV HSE MODEL ON LOT 98	2-22-96
5	REV LOC. OF HOD ON LOT 98	10-21-96
6	REV LOC. OF HOD ON LOT 98	3-5-97

ADDRESS CHART	
LOT No.	STREET ADDRESS
70	1400 Golf Island Road
98	2421 Golf Island Road

OWNER / DEVELOPER
 MANGIONE ENTERPRISES OF TURF VALLEY
 1205 YORK ROAD - Penthouse
 Lutherville, Maryland 21093

SUBMISSION NAME		SECTION/AREA	LOTS/PARCELS
TURF VALLEY		N/A	70 & 98
PLAT NO.	BLOCK NO.	ZONE	TAX MAP NO.
11560		PGCC-1	16
WATER CODE		ELECTION DIST.	CENSUS TRACT
H-07		2ND	4022
		SEWER CODE	5992500

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
 Director: [Signature] Date: 2/15/95
 Director: [Signature] Date: 2/16/95
 Director: [Signature] Date: 2/16/95
 Director: [Signature] Date: 2/3/95

Reviewed for HOWARD S.C.D. and meets Technical Requirements
 Signature: [Signature] Date: 19 January '95
 Signature: [Signature] Date: [Signature]
 Signature: [Signature] Date: [Signature]

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 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.
 Signature: [Signature] Date: 10-31-94

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.
 Signature: [Signature] Date: 6 Nelson Clark

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

DESIGNED	JME	SCALE	1" = 30'
DRAWN	MGR	DRAWING	1 OF 1
CHECKED	JME	JOB NO.	94-201
DATE	10-31-94	FILE NO.	94-201X

6 SITE DEVELOPMENT PLAN, SEDIMENT & EROSION CONTROL PLAN
 LOTS 70 and 98
TURF VALLEY
 LOTS 69-104
 2ND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 FOR CHAPEL HOMES, INC.
 P.O. BOX 4307
 Timonium, MD 21093