

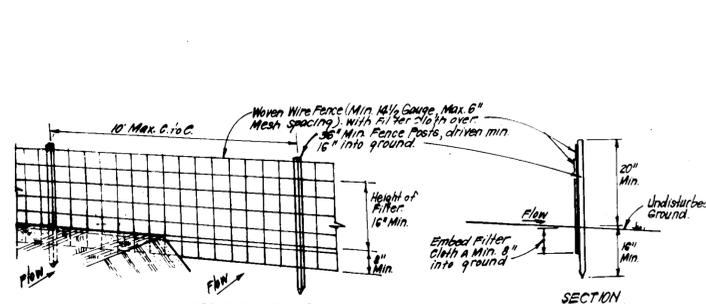
PERMANENT SEEDING NOTES

- 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. (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 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.
- 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) 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 | 0.624 Acres |
| Area Disturbed | 0.47 Acres |
| Area to be roofed or paved | 0.16 Acres |
| Area to be vegetatively stabilized | 0.31 Acres |
| Total Cut | 115 Cu. yds |
| Total Fill | 172.4 Cu. yds |
| Offsite waste/borrow area location | undetermined |
- 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 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. N/A
- 12) All pipes to be blocked at the end of each day (see detail below). N/A
- 13) The total amount of straw bale dikes/silt fence equals 450 L.F.

TEMPORARY 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) 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 (1.6 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 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.
- Inspection -** Inspect all seeded areas and make needed repairs, replacements and reseeding.
- 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, 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 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 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 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.



CONSTRUCTION SPECIFICATIONS:

1. Woven wire fence to be fastened securely to fence posts with wire ties.
2. Filter cloth to be fastened securely to woven wire fence with ties spaced every 24\"/>
- 3. When 2 sections of filter cloth adjoin each other they shall be overlapped 6\"/>
- 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\"/>

FENCE: Woven Wire, 1 1/2\"/>

FILTER CLOTH: Filter, Miraflex, 60\"/>

PREFABRICATED UNIT: 600\"/>

ENVIRONMENT: or Approval equal

SILT FENCE DETAIL (S)
NO SCALE

APPROVED FOR THE DEPT. OF PERMITS AND INSPECTION

APPROVED FOR THE COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED FOR THE BUREAU OF ENGINEERING

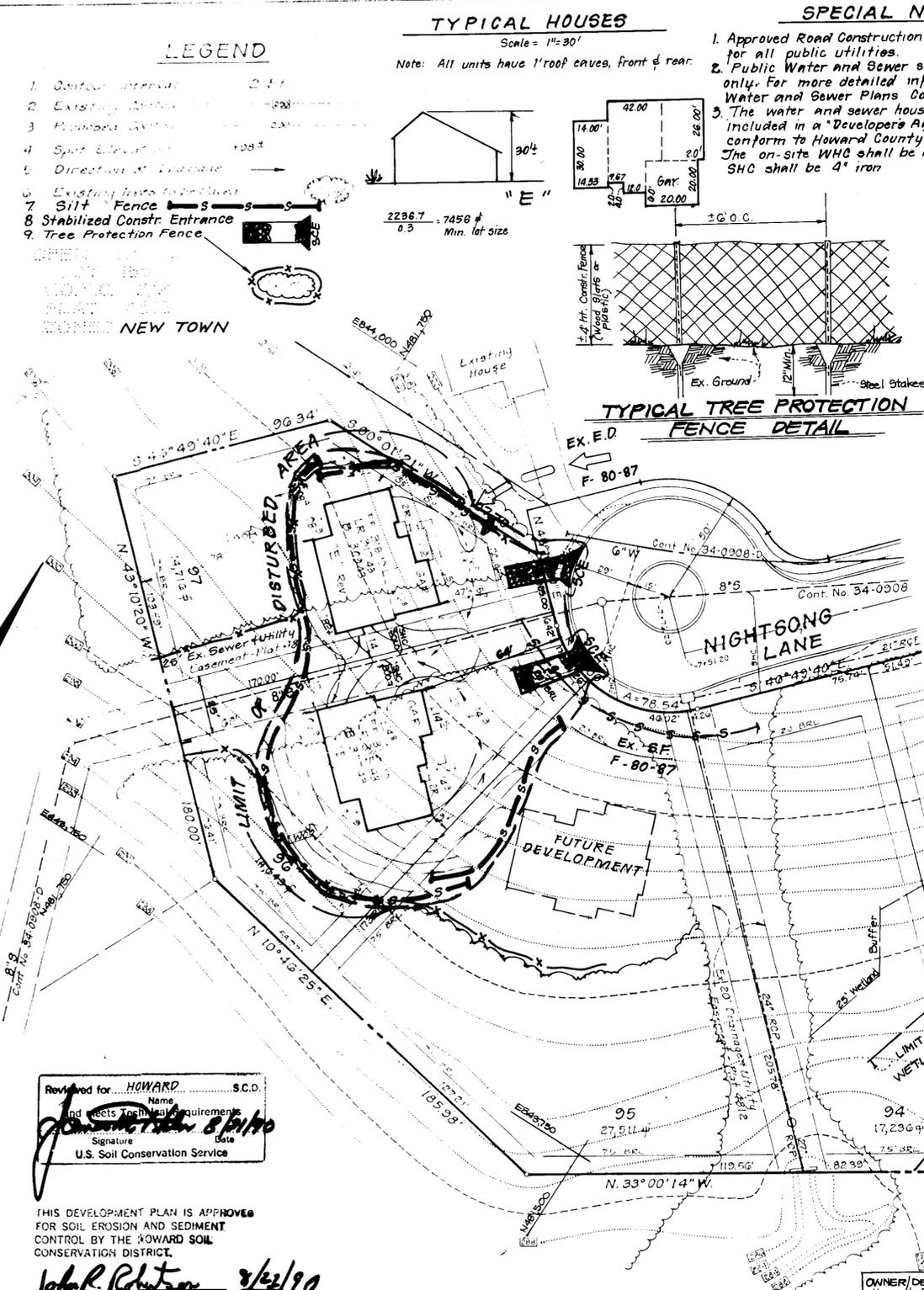
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CONSTRUCTION SEQUENCE

| Activity | No. of Days |
|---|-------------|
| A. Obtain Grading Permit and install Sediment and Erosion Control Devices and stabilize. | 7 |
| B. Excavate for foundations and rough grade & temporarily stabilize. | 14 |
| C. Construct structures, sidewalks and driveways | 30 |
| D. Final grade and stabilize in accordance with STDs and Specs. | 14 |
| E. Upon approval of the sediment control inspector, remove sediment & erosion controls and stabilize. | 7 |



LEGEND

1. Contour Interval 2' ±
2. Existing Utility
3. Proposed Utility
4. Spot Elevation
5. Direction of Erosion
6. Existing Line of Erosion
7. Silt Fence
8. Stabilized Constr. Entrance
9. Tree Protection Fence

TYPICAL HOUSES
Scale = 1\"/>

Note: All units have 1' roof eaves, front & rear.

TYPICAL TREE PROTECTION FENCE DETAIL

DRIVEWAY ABUTTING CLOSED SECTION WITHOUT CONCRETE SIDEWALK

ADDRESS CHART

| Lot | Street Address |
|-----|---------------------|
| 96 | 4537 NightSong Lane |
| 97 | 4531 NightSong Lane |
| 98 | 4525 NightSong Lane |
| 99 | 4519 NightSong Lane |
| 100 | 4513 NightSong Lane |

OWNER/DEVELOPER: Howard Research and Development Land Co. 10273 Little Bluff Pkwy, Columbia, MD. 21044

SUBDIVISION NAME: COLUMBIA (SECT./AREA) LOTS 98 & 97

VILLAGE OF KINGS CONTRIVANCE 3/2

PLAT NO. 8112 BLOCK# 21 ZONE TAX/Zone Map ELEC. DIST. CENSUS TR. 5th 5th 0662

WATER CODE E-15 SEWER CODE 6240000

CLARK • FINEROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS
7135 MINISTREL WAY • COLUMBIA MD 21045 • (301) 381-7500 - BALTO • (301) 661-8100 - WASH

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.

6-27-90
G. Nelson Clark
Date

SPECIAL NOTES

1. Approved Road Construction Plans shall be used for all public utilities.
2. Public Water and Sewer shown for reference only. For more detailed information, see Water and Sewer Plans Contract No. 34-0908-D.
3. The water and sewer house connections not included in a "Developer's Agreement" shall conform to Howard County Plumbing Code. The on-site WHC shall be 1\"/>

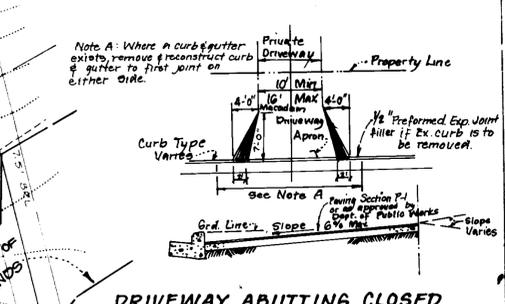
GENERAL NOTES

1. The land included is zoned: New Town 5.F.L.D.
2. Coordinates shown hereon are based upon Traverse controls for Columbia established by Maps, Inc. in 1965 and Purdom and Jeschke in 1968.
3. All roads are public & existing.
4. Any damage done to county-owned rights-of-way to be corrected at Developer's Expense.
5. Total Area included is 0.624 Acres.
6. Total number of lots is 2.
7. The contractor or developer shall contact the Construction Inspection Division 24 hours in advance of commencement of work at 792-2630.
8. Maximum building coverage is 30% per lot.
9. Existing tops was field run by Clark, FineTrack and Sackett, Inc.
10. Stormwater Management provided under F-80-87.

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 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."

6-27-90
Date



DRIVEWAY ABUTTING CLOSED SECTION WITHOUT CONCRETE SIDEWALK

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