

**LEGEND**

CONTOUR INTERVAL: 2 FT.

EXISTING CONTOUR: (dashed line)

PROPOSED CONTOUR: (solid line)

DIRECTION OF DRAINAGE: (arrow)

WALK-OUT BASEMENT: (dashed line)

EXISTING SEWER MAIN: (line with 'S')

EXISTING WATER MAIN: (line with 'W')

EXISTING STORM DRAIN: (line with 'SD')

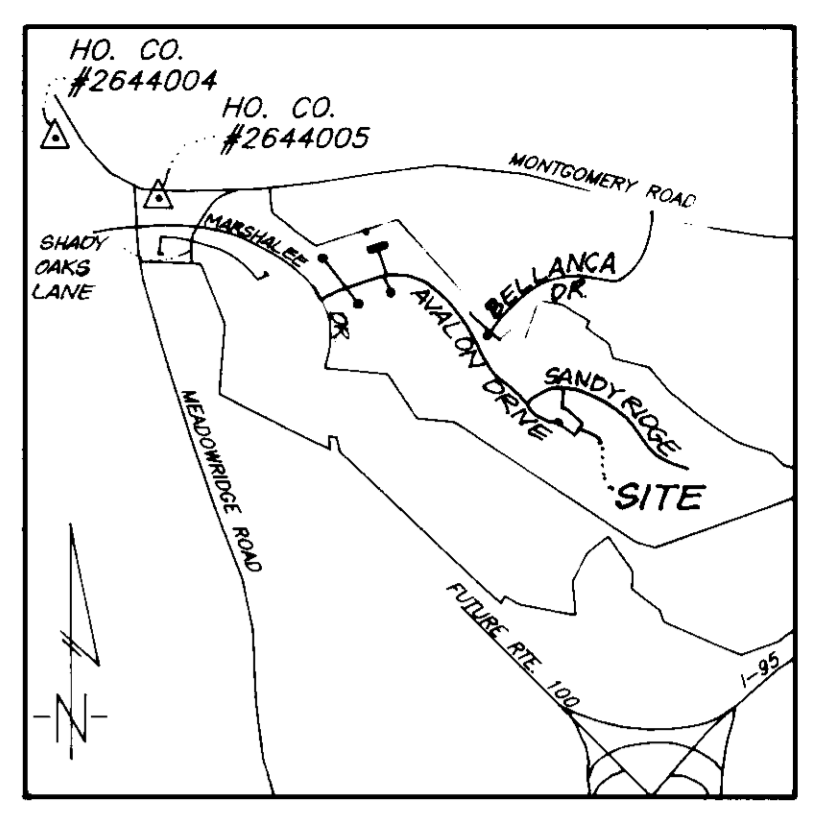
EXISTING TREES TO REMAIN: (circle)

ADDRESS CHART		
LOT NUMBER	STREET ADDRESS	STREET ADDRESS
367	5916	SANDY RIDGE
368	5928	SANDY RIDGE
369	5908	SANDY RIDGE
370	5904	SANDY RIDGE
372	6085	AVALON DRIVE
373	6059	AVALON DRIVE
374	6063	AVALON DRIVE
375	6067	AVALON DRIVE
366	5920	SANDY RIDGE
241	6071	AVALON DRIVE
242	6075	AVALON DRIVE
371	5900	SANDY RIDGE

**BENCHMARKS**

1.) Howard County Monument No. 2644004 Elev. 402.135  
Concrete Monument 0.1' below surface SW corner of intersection Maryland Route 103 and Old Montgomery Road

2.) Howard County Monument No. 2644005 Elev. 416.981  
Concrete Monument 0.2' below surface south side Montgomery Road East of Meadowridge Road



**GENERAL NOTES:** SCALE: 1"=2000'

- Subject property is zoned: R-SC per 10-18-93 Comprehensive Zoning Plan.
- The total area included in this submission is :2.9950 Ac or 130,503 sq ft.
- The total number of lots included in this submission is: 12
- Improvement to property : Single Family Detached.
- The maximum lot coverage permitted is: 30%
- Department of Planning and Zoning reference file numbers are: WP-01-33; 25877404; F-03-08, F-03-09, F-04-01, F-04-02, F-04-03, F-04-04, F-04-05, F-04-06, F-04-07, F-04-08, F-04-09, F-04-10, F-04-11, F-04-12, F-04-13, F-04-14, F-04-15, F-04-16, F-04-17, F-04-18, F-04-19, F-04-20, F-04-21, F-04-22, F-04-23, F-04-24, F-04-25, F-04-26, F-04-27, F-04-28, F-04-29, F-04-30, F-04-31, F-04-32, F-04-33, F-04-34, F-04-35, F-04-36, F-04-37, F-04-38, F-04-39, F-04-40, F-04-41, F-04-42, F-04-43, F-04-44, F-04-45, F-04-46, F-04-47, F-04-48, F-04-49, F-04-50, F-04-51, F-04-52, F-04-53, F-04-54, F-04-55, F-04-56, F-04-57, F-04-58, F-04-59, F-04-60, F-04-61, F-04-62, F-04-63, F-04-64, F-04-65, F-04-66, F-04-67, F-04-68, F-04-69, F-04-70, F-04-71, F-04-72, F-04-73, F-04-74, F-04-75, F-04-76, F-04-77, F-04-78, F-04-79, F-04-80, F-04-81, F-04-82, F-04-83, F-04-84, F-04-85, F-04-86, F-04-87, F-04-88, F-04-89, F-04-90, F-04-91, F-04-92, F-04-93, F-04-94, F-04-95, F-04-96, F-04-97, F-04-98, F-04-99, F-04-100
- Utilities shown as existing are taken from approved Water and Sewer plans Contract # 14-3370-D, approved Road Construction plans F-04-04, and actual field survey.
- 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 F-04-04 prepared by Land Design Engineering, Inc.
- The coordinates shown hereon are based upon the Howard County Geodetic Control which is based upon the Maryland State Plane Coordinate System - Howard County Control stations: 2044004 & 2044005.
- The contractor shall notify the Department of Public Works/Division of Construction Inspection at (410) 313-1880 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.G.O.1; R.G.O.3; R.G.O.5
- In accordance with Section 12A.1.b of the Zoning Regulation bay windows or chimneys not more than 16 feet in width may project not more than 4 feet into any setbacks; porches and decks may project not more than 10 feet into the front or rear setbacks.
- Stormwater Management is provided per the Comprehensive Stormwater Management Report by F-04-28 & F-04-29 & F-04-30.
- All Landscaping shown is in accordance with F-04-20.

**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-04-24 and/or approved Water and Sewer Plans Contract # 14-3370-D.

**SHEET INDEX**

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

**OWNER/DEVELOPER**  
100 INVESTMENT LIMITED PARTNERSHIP  
8835-P Columbia 100 Parkway  
Columbia, Maryland 21045

SUBDIVISION NAME	SECTION/AREA	LOTS/PARCELS
LYNDWOOD MANOR	TWO	366-375, 241 & 242
PLAT NO.	BLOCK NO.	ZONE
11852 F	9&10	R-SC
12703		
WATER CODE	SEWER CODE	
D 01	2153000	

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

**DESIGNED** DM  
**DRAWN** ZH, PS  
**CHECKED** jml  
**DATE** 11-8-96

**SITE DEVELOPMENT PLAN**  
366-375, 241 & 242  
**LYNDWOOD MANOR**  
SECTION 2  
FIRST (137) ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

**FOR: RYAN HOMES, Inc.**  
11860 GRANBRIDGE DRIVE, Suite 126  
OWINGS MILLS, MD 21117

**SCALE** 1" = 30'  
**DRAWING** 1 of 3  
**JOB NO.** 95-130  
**FILE NO.** 95-130X

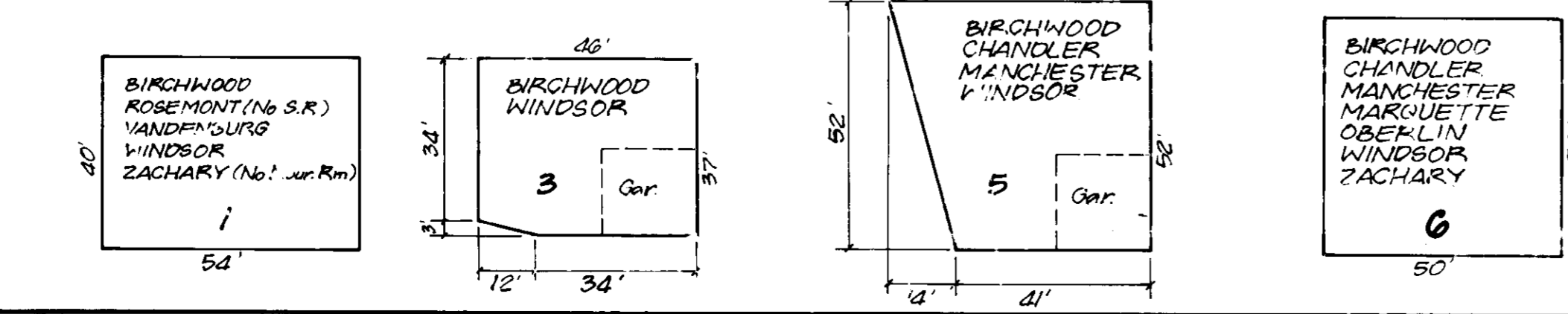
DATE: 4-9-97

**APPROVED:** DEPARTMENT OF PLANNING AND ZONING

*[Signature]* 4/17/97  
Chief, Development Engineering Division Date

*[Signature]* 4/23/97  
Division of Land Development Date

*[Signature]* 4/24/97  
Director Date

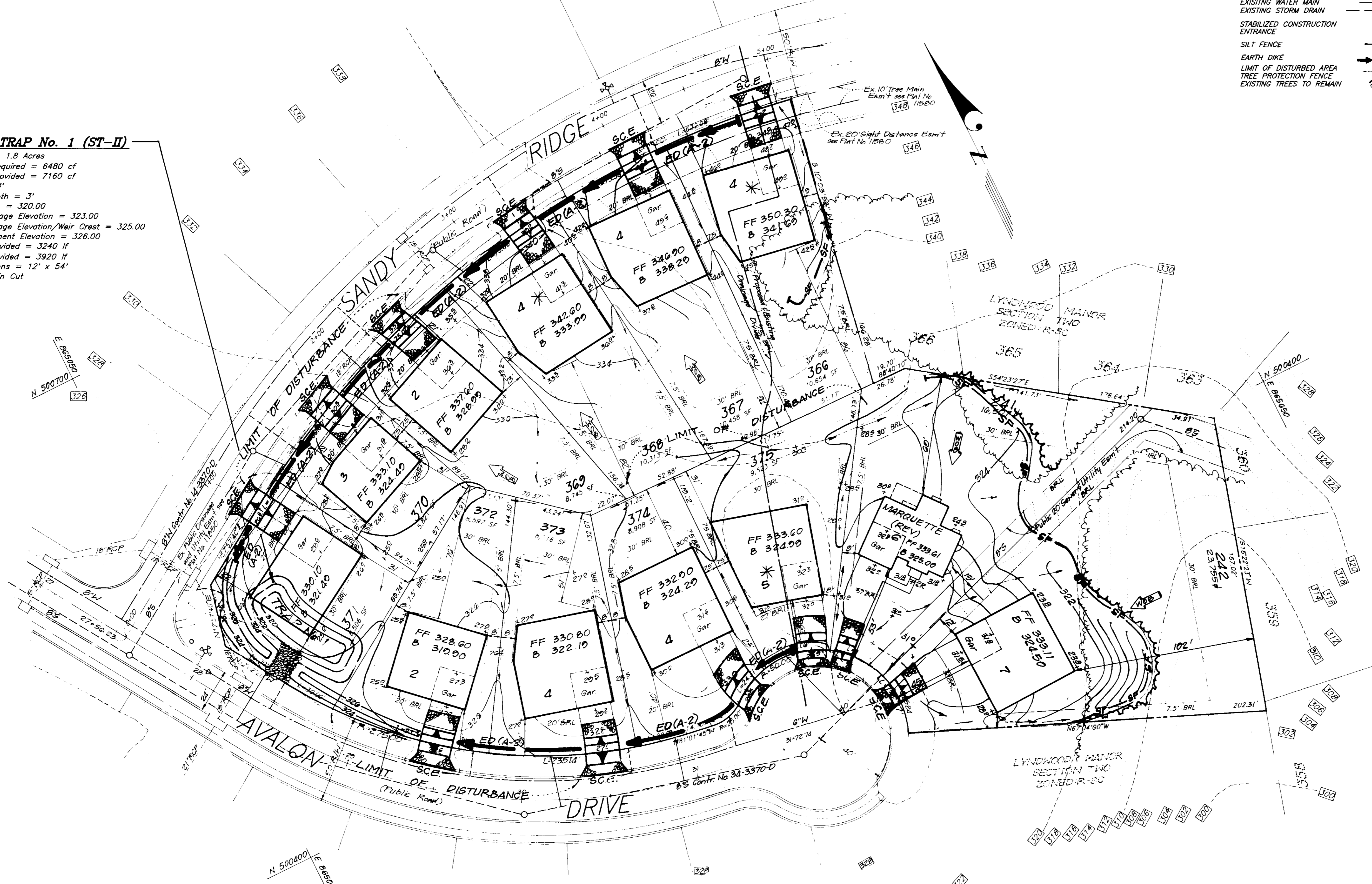
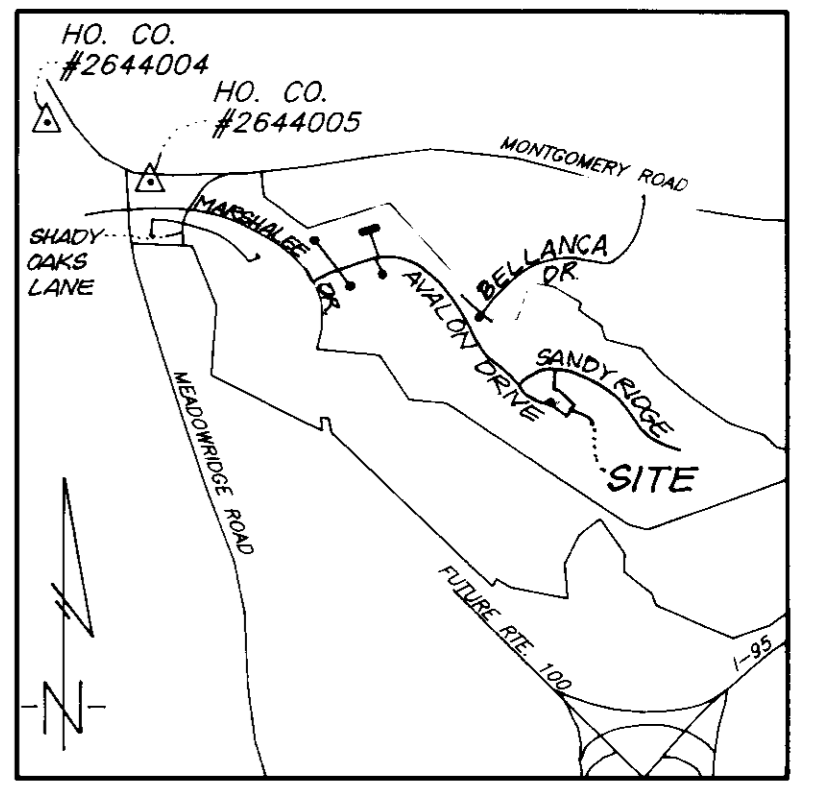
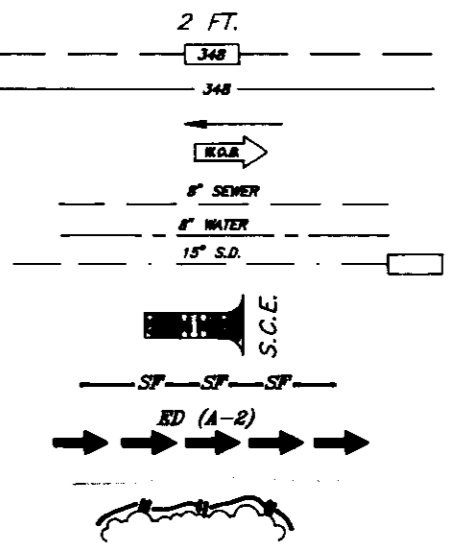


**SEDIMENT TRAP No. 1 (ST-II)**

Drainage Area = 1.8 Acres  
 Total Storage Required = 6480 cf  
 Total Storage Provided = 7160 cf  
 Weir Length = 8'  
 Wet Storage Depth = 3'  
 Bottom Elevation = 320.00  
 Top of Wet Storage Elevation = 323.00  
 Top of Dry Storage Elevation/Weir Crest = 325.00  
 Top of Embankment Elevation = 326.00  
 Wet Storage Provided = 3240 cf  
 Dry Storage Provided = 3920 cf  
 Bottom Dimensions = 12' x 54'  
 2:1 Side Slope in Cut

**LEGEND**

- CONTOUR INTERVAL
- EXISTING CONTOUR
- PROPOSED CONTOUR
- DIRECTION OF DRAINAGE
- WALK OUT BASEMENT
- EXISTING SEWER MAIN
- EXISTING WATER MAIN
- EXISTING STORM DRAIN
- STABILIZED CONSTRUCTION ENTRANCE
- SILT FENCE
- EARTH DIKE
- LIMIT OF DISTURBED AREA
- TREE PROTECTION FENCE
- EXISTING TREES TO REMAIN



\*:see sheet 1 for the specific model type

**OWNER/DEVELOPER**

100 INVESTMENT LIMITED PARTNERSHIP  
 8835-P Columbia 100 Parkway  
 Columbia, Maryland 21045

Reviewed for HOWARD S.C.D.  
 and meets Technical Requirements  
 Signature: *Chevy Simmons* 4/14/97  
 U.S. Natural Resources Conservation Service

**DEVELOPER'S/BUILDER'S CERTIFICATE**

"I 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."

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 Signature: *John R. Pollock* 4/14/97  
 Approved

Signature: *Michael Shearer* 11/11/96  
 NAME DATE

**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: *G. Nelson Clark* 1-13-96  
 G. NELSON CLARK DATE

APPROVED: DEPARTMENT OF PLANNING & ZONING  
 Signature: *Cindy Hamilton* 4/23/97  
 DIVISION OF LAND DEVELOPMENT DATE  
 Signature: *August S. Seltzer* 4/24/97  
 DIRECTOR DATE

<b>CLARK • FINEFROCK &amp; SACKETT, INC.</b> ENGINEERS • PLANNERS • SURVEYORS 7135 MINSTREL WAY • COLUMBIA, MD 21045 • (410) 381-7500 BALTO • (301) 621-8100 WASH		
DESIGNED ZL	SEDIMENT AND EROSION CONTROL PLAN 366-375, 241 & 242	SCALE 1" = 30'
DRAWN ZH PS	<b>LYNDWOOD MANOR</b>	DRAWING 2 of 3
CHECKED ZL	SECTION 2 FIRST (1ST) ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO. 95-130
DATE 1-13-96	FOR: RYAN HOMES, Inc. 1400 GROMMIDGE DRIVE, Suite 128 OWINGS MILLS, MARYLAND 21117	FILE NO. 95-130X

21.0 STANDARDS AND SPECIFICATIONS

FOR TOPSOIL

Definition

Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation.

Purpose

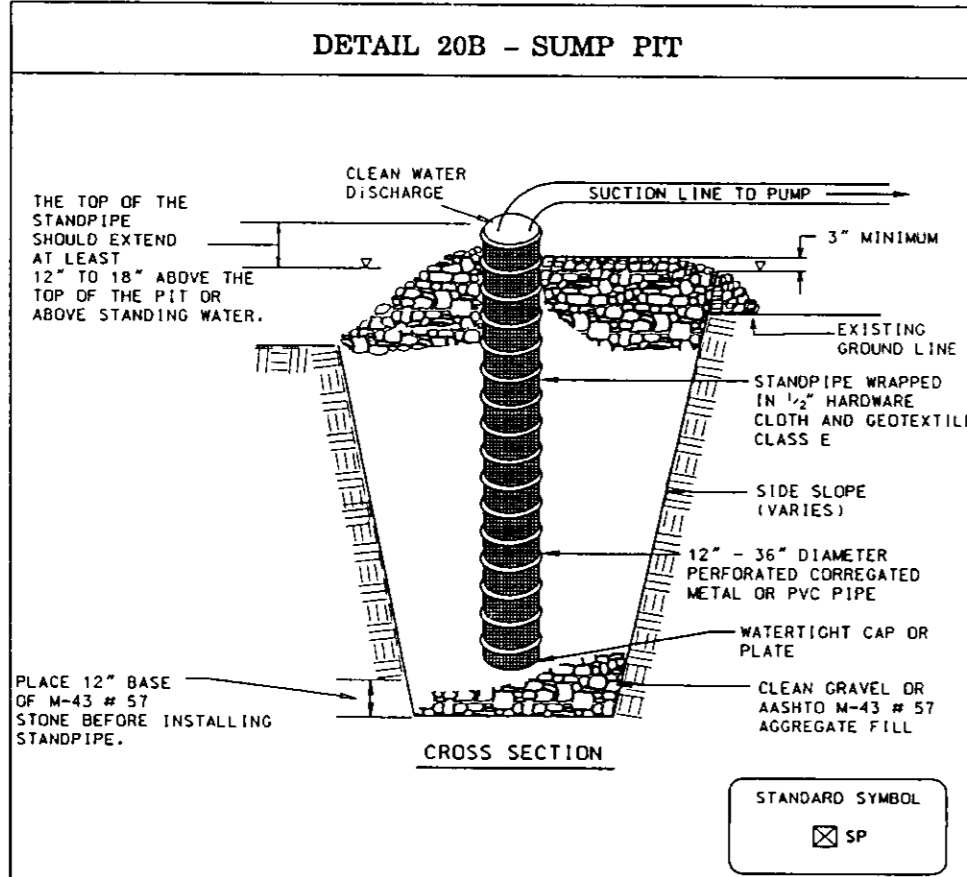
To provide a suitable soil medium for vegetable growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.

Conditions Where Practice Applies

- This practice is limited to areas having 2:1 or flatter slopes where:
  - The texture of the exposed subsoil/parent material is not deep enough to produce vegetative growth.
  - The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients.
  - The original soil to be vegetated contains material toxic to plant growth.
  - The soil is so acidic that treatment with limestone is not feasible.
- For the purpose of these Standards and Specifications, areas having slopes steeper than 2:1 require special consideration and design for adequate stabilization. Areas having slopes steeper than 2:1 shall have the appropriate stabilization, shown on the plans.

Construction and Material Specifications

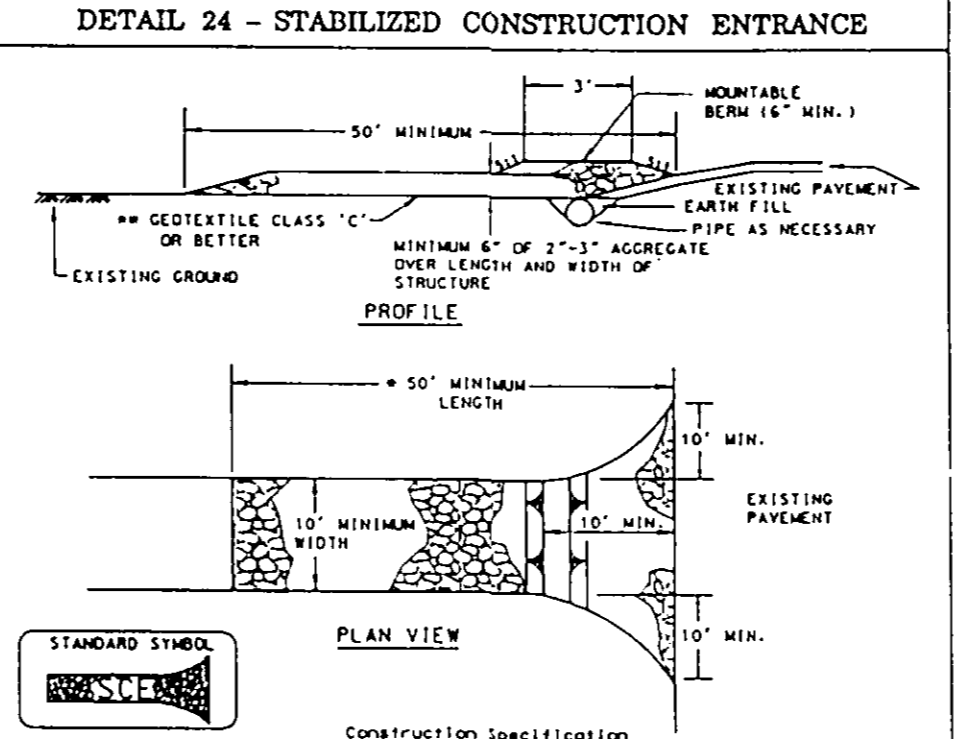
- Topsoil salvaged from the existing site may be used provided that it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey, published by USDA-SOCS in cooperation with Maryland Agricultural Experiment Station.
- Topsoil Specifications - Soil to be used as topsoil must meet the following:
  - Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronomist or a soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting textured subsoils and shall contain less than 5% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1 and 1/2" in diameter.
  - Topsoil must be free of plants or plant parts such as Bermuda grass, quackgrass, Johnsongrass, nutcase, poison ivy, thistle, or others as specified.
  - Where the subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4-8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil. Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures.
- For sites having disturbed areas under 5 acres:
  - Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization Methods and Materials Section I - Vegetative Stabilization Methods and Materials.
- Topsoil Application
  - When topsoiling, maintain needed erosion and sediment control practices such as diversions, Grade Stabilization Structures, Earth Dikes, Slope Silt Fence and Sediment Traps and Basins.
  - Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4" - 8" higher in elevation.
  - Topsoil shall be uniformly distributed in a 4" - 8" layer and lightly compacted to a minimum thickness of 4". Spreading shall be performed in such a manner that seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets.
  - Topsoil shall not be placed while the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seedbed preparation.



Construction Specifications

- Pit dimensions are variable, with the minimum diameter being 2 times the standpipe diameter.
- The standpipe should be constructed by perforating a 12" to 24" diameter corrugated or PVC pipe. Then wrapping with 1/2" hardware cloth and geotextile Class E. The perforations shall be 1/2" x 6" slits or 1" diameter holes.
- A base of filter material consisting of clean gravel or #57 stone should be placed in the pit to a depth of 12". After installing the standpipe, the pit surrounding the standpipe should then be backfilled with the same filter material.
- The standpipe should extend 12" to 18" above the lip of the pit or the riser crest elevation (basin dewatering only) and the filter material should extend 3" minimum above the anticipated standing water elevation.

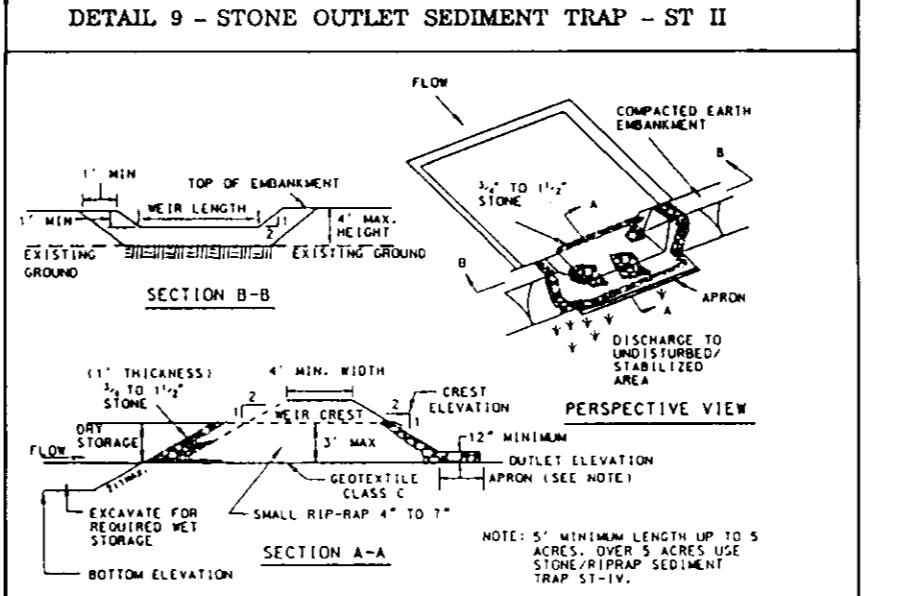
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Construction Specifications

- Length - minimum of 50' (x30' for single residence lots).
- Width - 10' minimum, should be fixed at the existing road to provide a turning radius.
- Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. The plan approval authority may not require slope stability residences to use geotextile.
- Stone - crushed aggregate 12" to 3" or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance.
- Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable bench with 5:1 slopes and a minimum of 6" of stone over the side. Pipe shall be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 4" minimum will be required.
- Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

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Construction Specifications

- Area under sediment trap shall be cleared, grubbed and stripped of any vegetation and root mat. The soil area shall be leveled.
- The fill material for the sediment trap shall be free of roots and other debris (vegetation) as well as over-sized stones, rocks, organic material or other objectionable material. The sediment trap shall be constructed by troweling with equipment while it is being constructed.
- All cut and fill slopes shall be 2:1 or flatter.
- The stone used in the outlet shall be small (1/4" to 1" in size) and 1/2" to 1" thick. The stone facing shall be as uniform as possible. The stone facing shall be substituted for the stone facing by placing 12" in the inlet face of the stone outlet.
- Sediment shall be removed and transported to its original drainage when the sediment has accumulated to one half of the set storage depth of the trap. Remove sediment shall be deposited in a suitable area and in such a manner that it will not wash.
- The structure shall be inspected periodically and after each rain and repairs made as needed.
- Construction of trees shall be carried out in such a manner that sediment accumulation is minimized. The sediment trap shall be protected with a mountable bench with 5:1 slopes and a minimum of 6" of stone over the side. Pipe shall be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 4" minimum will be required.
- Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

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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:

- Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq.ft.) and 600 lbs. per acre (14 lbs./1000 sq.ft.) of fertilizer (14-0-0 ureaform fertilizer) (9 lbs./1000 sq.ft.).
- Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs./1000 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 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 seeding lowgrass. During the period of October 15 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 seed. 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 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 1 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 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

SEDIMENT AND EROSION CONTROL NOTES

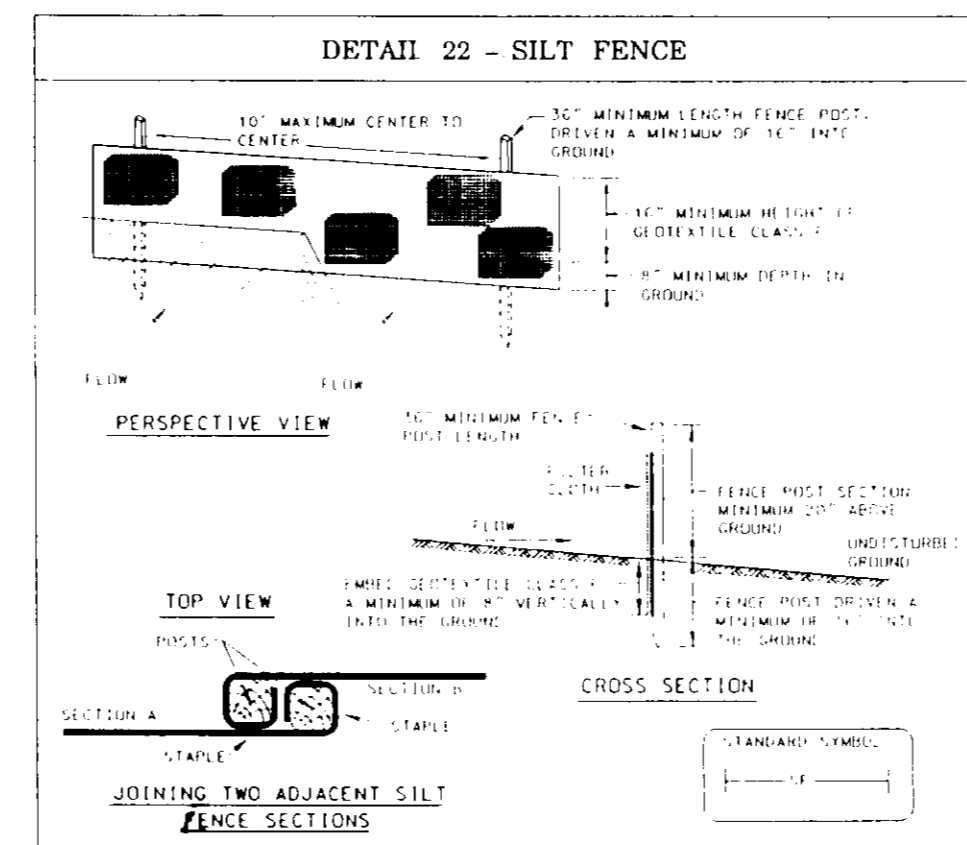
- A minimum of 48 hours notice must be given to the Howard County Department of Inspections, Licenses and Permits, Sediment Control Division prior to the start of any construction (313-1855).
  - All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1994 MARYLAND STANDARDS AND SPECS. FOR SOIL EROSION AND SEDIMENT CONTROL and revisions thereto.
  - Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within:
    - 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1
    - 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 7, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
  - All disturbed areas must be stabilized within the time period specified above, in accordance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings, sod, temporary seeding and mulching (Sec. C). 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:	2000 Ac.
Area Disturbed:	732 Ac.
Area to be roofed or paved:	252 Ac.
Area to be vegetatively stabilized:	1472 Ac.
Total Cut:	2400 cu yd.
Offsite Waste/Borrow Area Location:	
  - Any sediment control practice which is placed by grading 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 DPM 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.
  - Trenches for the construction of utilities is limited to three pipe lengths or that which shall be back-filled and stabilized within one working day, whichever is shorter.
  - The total amount of silt fence = 310 lf
- \* 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.	NO. OF DAYS
1. Obtain grading permit.	
2. Install tree protection fence.	
3. Install sediment and erosion control devices and stabilize.	10
4. Excavate for foundations, rough grade and temporary stabilize.	10
5. Construct structures, sidewalks and driveways.	10
6. Final grade and stabilize in accordance with Site and Space.	10
7. Upon approval of the sediment control inspector, remove sediment and erosion control devices and stabilize.	7

\* Delay construction of houses on lots: 372  
See angle lot sediment control detail, this sheet.

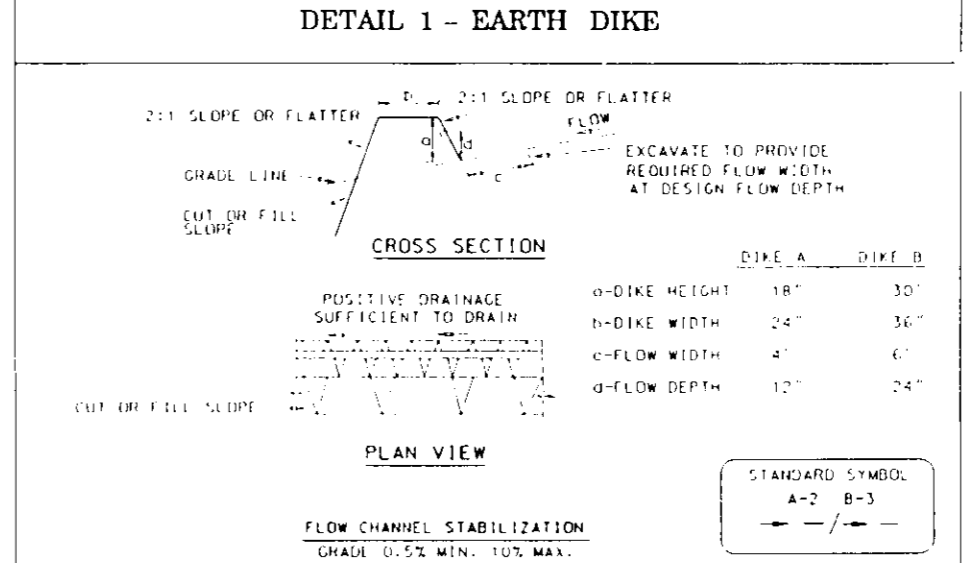


Construction Specifications

- Fence posts shall be a minimum of 36" long or 12" minimum into the ground. Wood posts shall be 1 1/2" x 4 1/2" square (minimum 100' or 172" diameter) minimum round and shall be of sound quality hardwood. Steel posts will be standard 1 1/2" or 2" section weighing not less than 100 lbs per linear foot.
- Geotextile shall be fastened securely to each fence post with wire ties or staples of top and mid-section and shall meet the following requirements for Geotextile Class F:
 

Tensile Strength	50 lbs/in (min.)	Test: MSMT 509
Tensile Modulus	20 lbs/in (min.)	Test: MSMT 509
Flow Rate	0.5 gal./477 minute (imp.)	Test: MSMT 322
Filtering Efficiency	75% (min.)	Test: MSMT 322
- Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
- Silt fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.

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Construction Specifications

- Seed and cover with straw mulch.
- Seed and cover with Erosion Control Matting or Tine with sod.
- 4" - 7" stone or recycled concrete equivalent pressed into the soil 7" minimum.
- All temporary earth dikes shall have uninterrupted positive grade to an outlet. Spot elevations may be necessary for grades less than 1%.
- Runoff diverted from a disturbed area shall be conveyed to a sediment trapping device.
- Runoff diverted from an undisturbed area shall outlet directly into an undisturbed, stabilized area at a non-erosive velocity.
- All trees, brush, stumps, obstructions, and other objectionable material shall be removed and disposed of so as not to interfere with the proper functioning of the dike.
- The dike shall be excavated or shaped to final grade and cross section as required to meet the criteria specified herein and be free of bank projections or other irregularities which may interfere with normal flow.
- Fill shall be compacted by earth moving equipment.
- All earth removed and not needed for construction shall be placed so that it will not interfere with the functioning of the dike.
- Inspection and maintenance must be provided periodically and after each rain event.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE A - 11 - 4	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
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OWNER/DEVELOPER

100 INVESTMENT LIMITED PARTNERSHIP  
8835-P Columbia 100 Parkway  
Columbia, Maryland 21045

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chief, Development Engineering Division

4/2/97

4/23/97

4/24/97

Reviewed for HOWARD S.C.D. and meets Technical Requirements

Signature: [Signature]

Date: [Date]

U.S. Natural Resources Conservation Service

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

Signature: [Signature]

Date: [Date]

Approved

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."

Michael Heary 11/11/96

NAME DATE

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]

1-13-96

DATE



CLARK • FINEFROCK & SACKETT, INC.  
ENGINEERS • PLANNERS • SURVEYORS

7735 MINTREL WAY • COLUMBIA MD 21045 • (410) 381-7500 BALTO • (301) 621-8100 WASH

DESIGNED ZL	SEDIMENT AND EROSION CONTROL DETAILS 366-375, 401 & 242	SCALE 1" = 30'
DRAWN ZH PS	LYNDWOOD MANOR	DRAWING 3 of 3
CHECKED ZL		SECTION 2 FIRST (1ST) ELECTION DISTRICT HOWARD COUNTY, MARYLAND
DATE 1-13-96	FOR: RYAN HOMES, Inc. 11660 CROWNDRIVE DRIVE, Suite 128 OWINGS MILLS, MARYLAND 21117	JOB NO 95-130
		FILE NO 95-130X

SDP 97-54