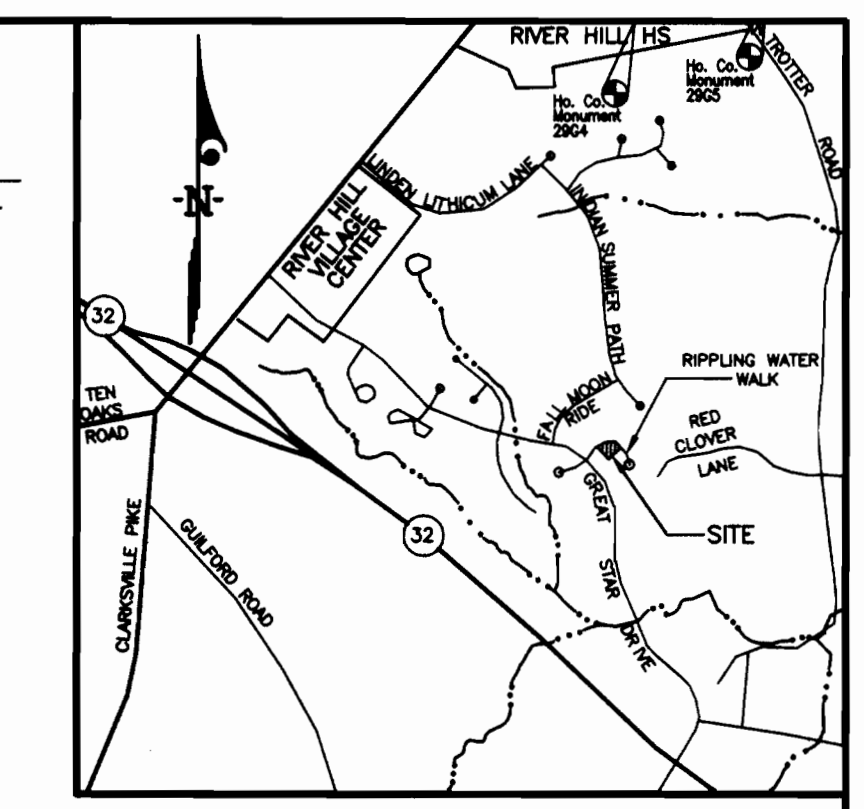


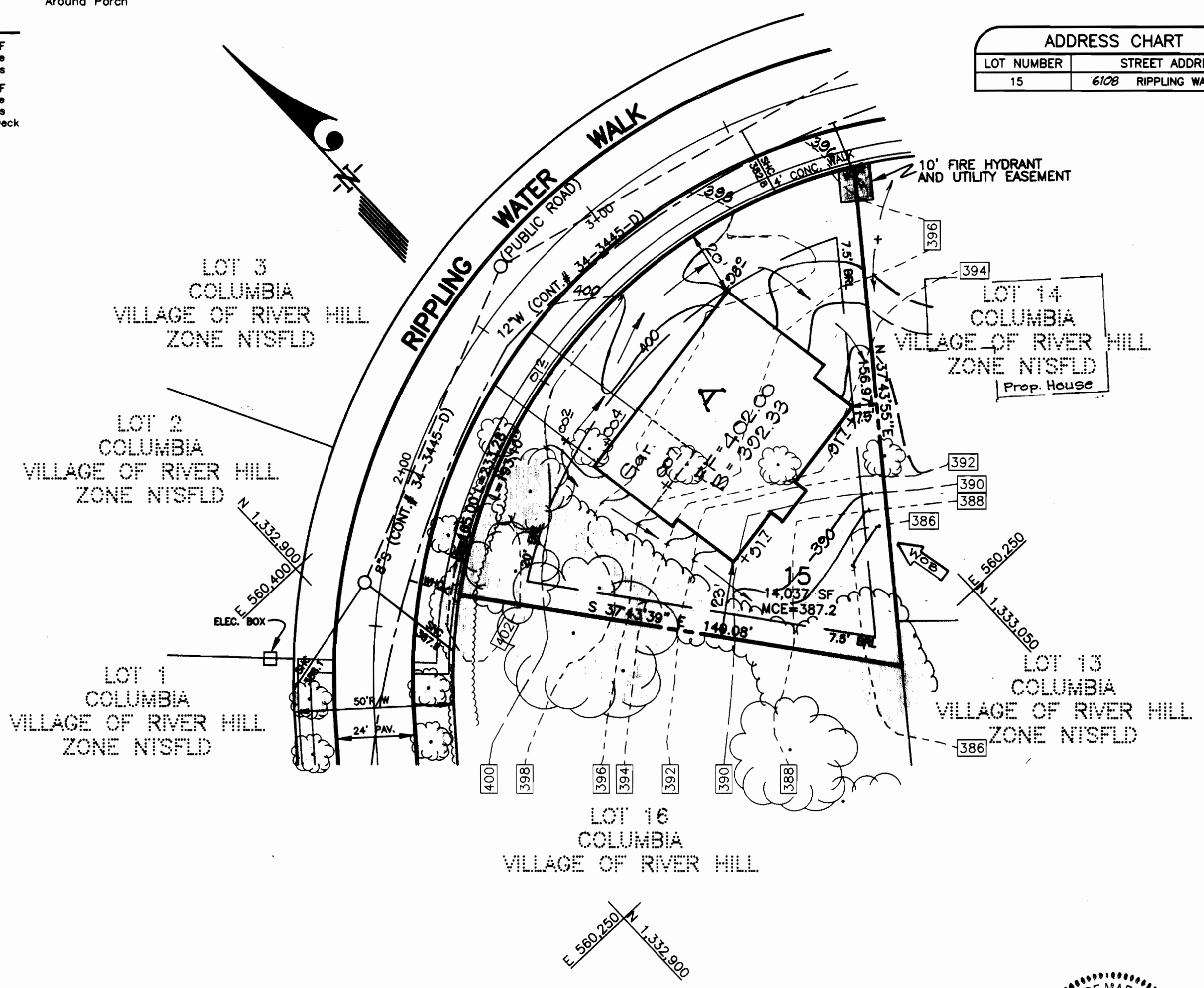
BENCHMARKS:
 Howard County Monument 29G4
 Intersection of MD. Route 108 and Trotter Road
 Howard County Monument 29G5
 an additional 2,544' ± Northeasterly along MD. Route 108 away from Site



- GENERAL NOTES:**
- Subject property is zoned: NTSFLD per 10-18-93 Comprehensive Zoning Plan.
 - The total area included in this submission is : 0.3222 Acres.
 - The total number of lots included in this submission is : 1
 - Improvement to property : Single Family Detached
 - The maximum lot coverage permitted is : 30%
 - Department of Planning and Zoning reference file numbers : F-96-89, F-96-110, F-96-124, S-93-21, P-95-11, W&S Cont. #34-3445-D and #34-3588-D, WP-95-32, WP-95-78, and WP-95-114.
 - Utilities shown as existing are taken from approved Water and Sewer plans Contract #34-3445-D, approved Road Construction plans F-96-124, 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 prepared by Gutschick, Little & Weber in March 1996.
 - The coordinates shown hereon are based upon the Howard County Geodetic Control which is based upon the Maryland State Plane Coordinate System - Howard County Monuments Numbers : 2904 & 2905
 - 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.6.03 & R.6.05.
 - In accordance with FDP-Phase 222, Part III 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. Exterior stairway/areaway may not project into any setbacks.
 - SHC Elevations shown are at the property lines
 - This project is exempt from the requirements of Section 16.1200 for the Howard County Code for forest conservation because in accordance with Section 16.1202 (b)(1)(iv) this plan is part of a planned unit development which received preliminary plan approval prior to 12/31/92.

ADDRESS CHART

LOT NUMBER	STREET ADDRESS
15	6108 RIPPLING WATER WALK



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-95-141 and/or approved Water and Sewer Plans Contract #34-3445-D.

SHEET INDEX

DESCRIPTION	SHEET NO.
SITE DEVELOPMENT PLAN	1 OF 2
SEDIMENT & EROSION CONTROL PLAN	2 OF 2

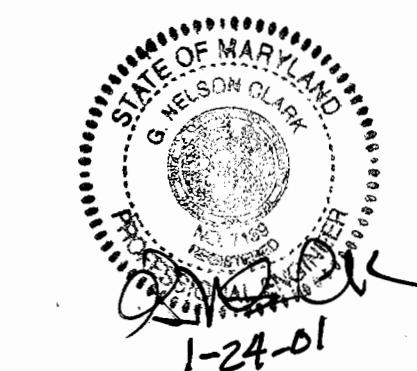
OWNER / DEVELOPER
 THE HOWARD RESEARCH AND DEVELOPMENT CORP.
 10725 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND 21044

SUBDIVISION NAME	SECTION/AREA	LOTS/PARCELS			
VILLAGE OF RIVER HILL	4/3	15			
PLAT NO.	BLOCK NO.	ZONE	TAX MAP NO.	ELECTION DIST.	CENSUS TRACT
12757	7	NTSFLD	35	5th	6055
WATER CODE	SEWER CODE				
I-10	6653000				

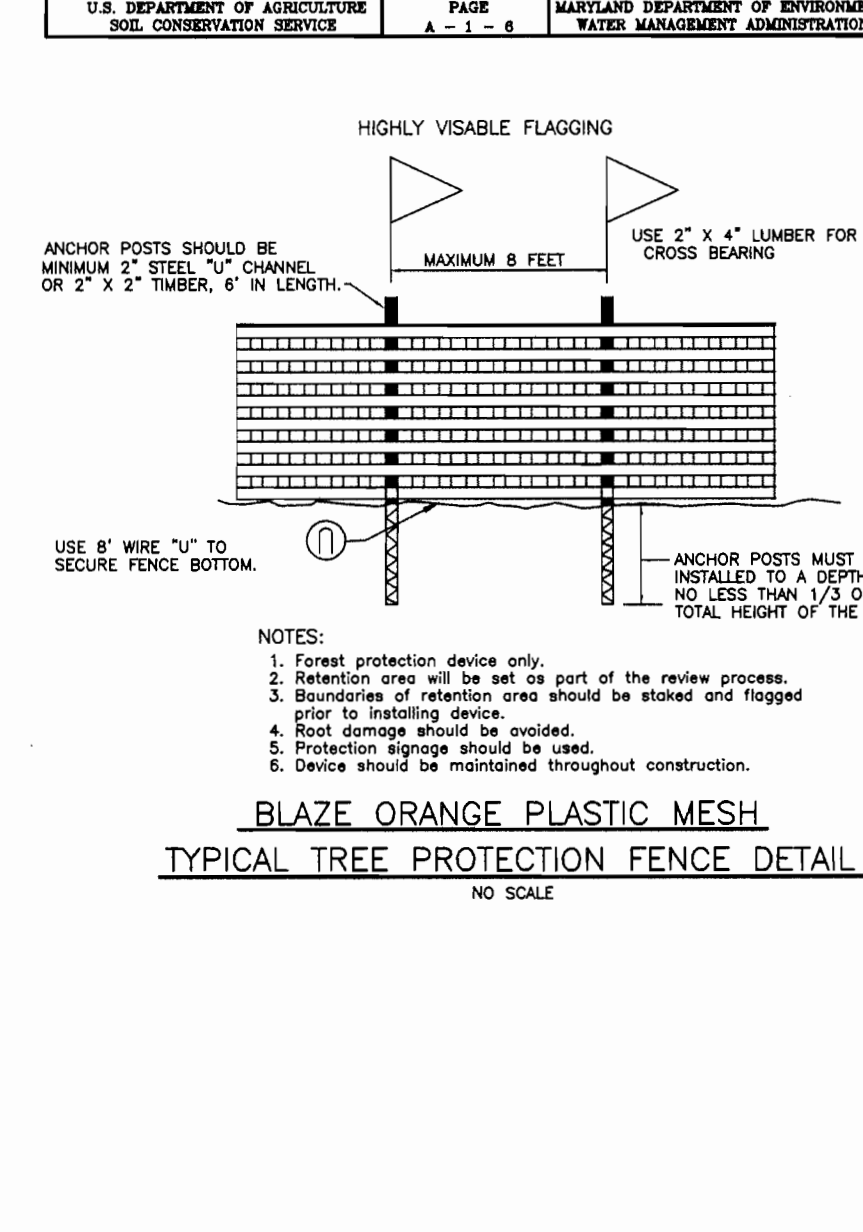
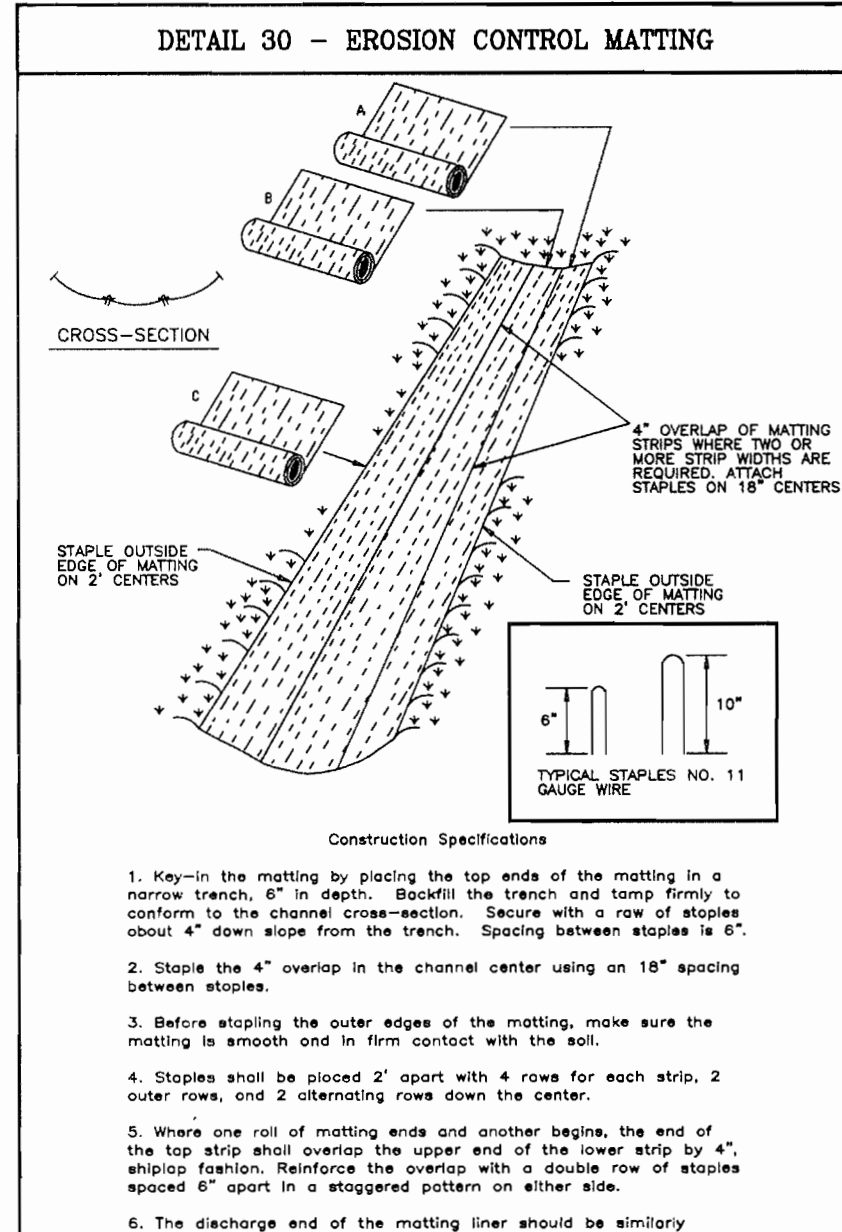
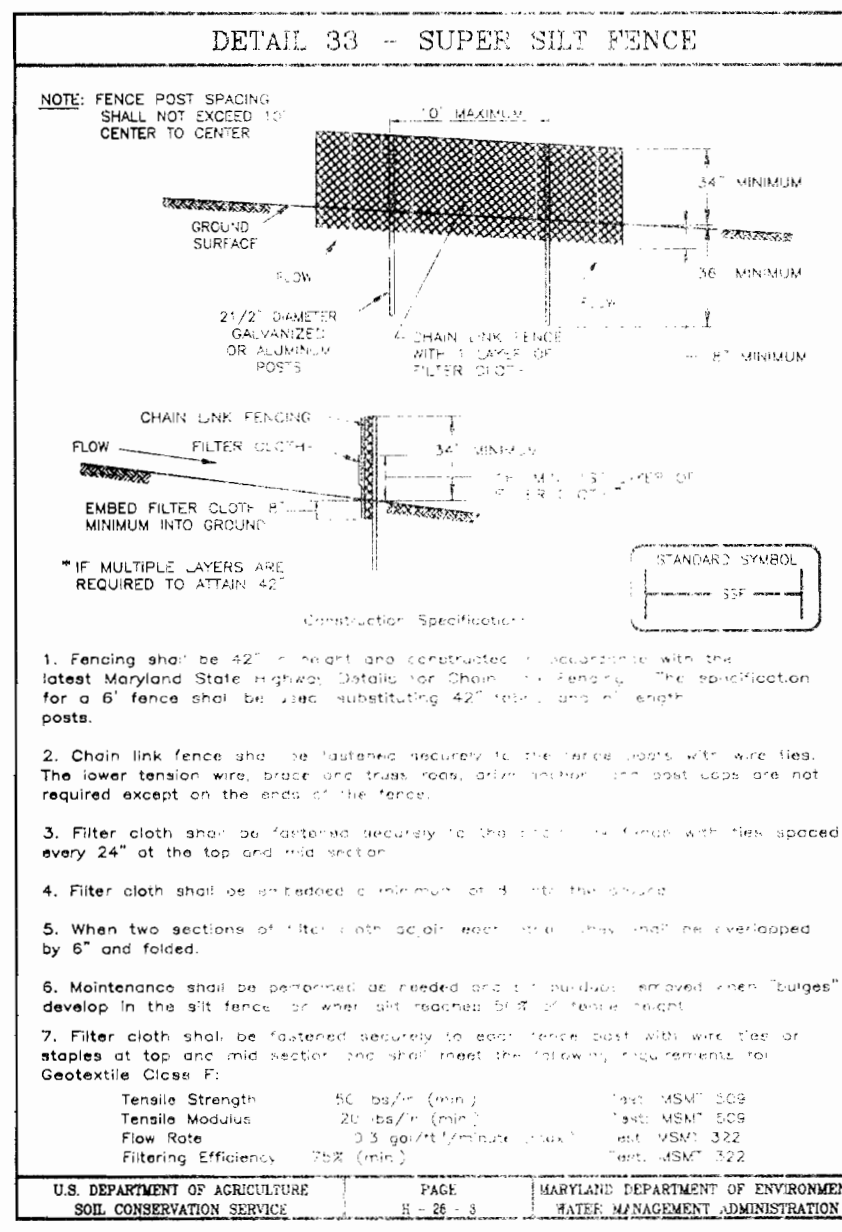
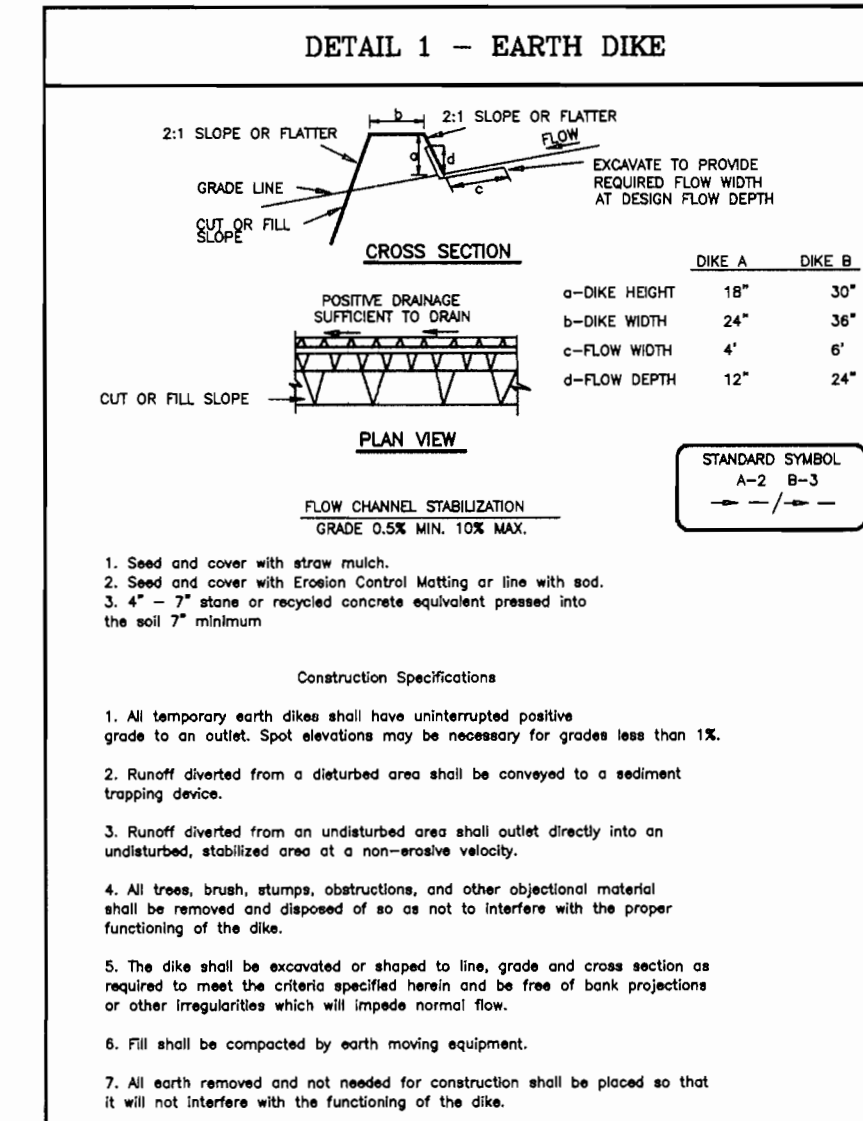
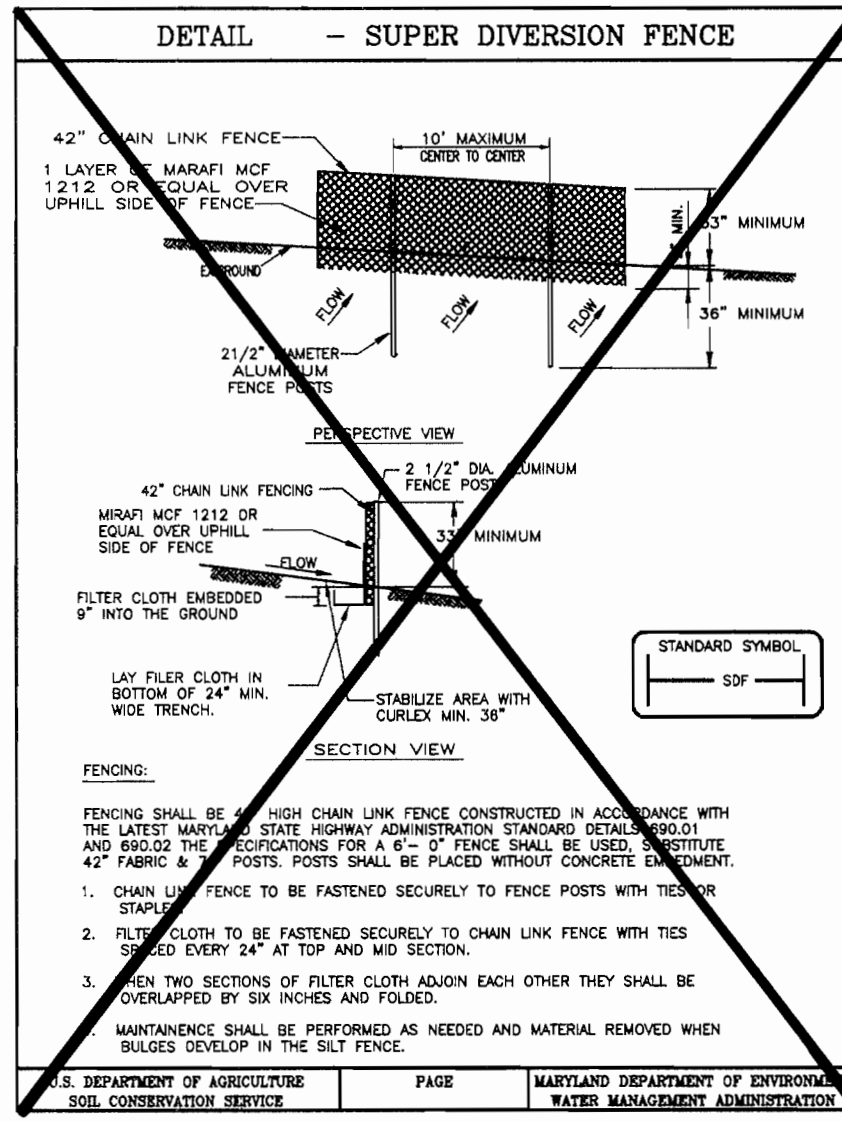
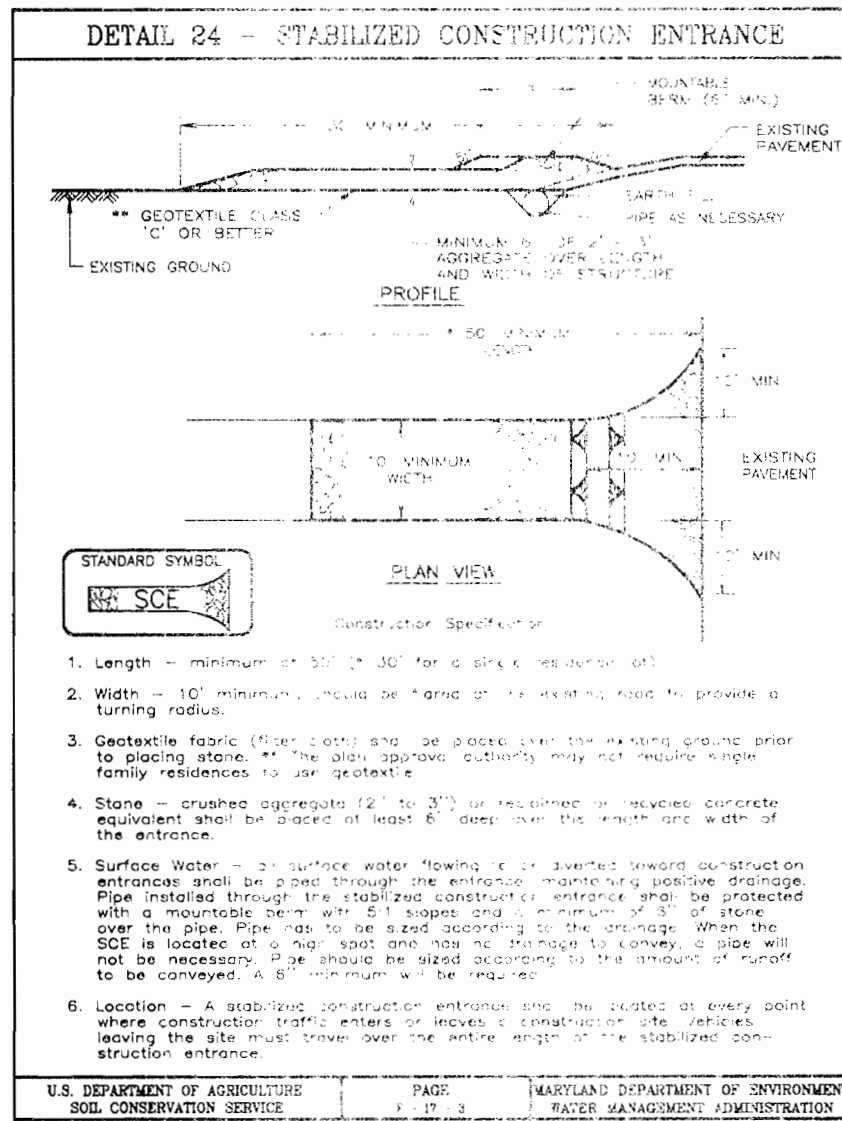
CLARK · FINEFROCK & SACKETT, INC.
 ENGINEERS · PLANNERS · SURVEYORS
 7135 MINSTREL WAY · COLUMBIA, MD 21045 · (410) 381-7500 BALT. · (301) 621-8100 WASH.

DESIGNED	SITE DEVELOPMENT PLAN	SCALE
JME	LOT 15	1" = 30'
DRAWN	COLUMBIA VILLAGE OF RIVER HILL	DRAWING
KDL/TH	SECTION 4 AREA 3	1 of 2
CHECKED	FIFTH (5th) ELECTION DISTRICT	JOB NO.
J.M.E.	HOWARD COUNTY, MARYLAND	00-156
DATE	FOR: NU HOMES INC.	FILE NO.
12-7-00	10630 LITTLE PATUXENT PARKWAY, SUITE 146 COLUMBIA, MARYLAND 21044	00-156-X

APPROVED: DEPARTMENT OF PLANNING & ZONING
 [Signature] 2/2/01 DATE
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 [Signature] 2/6/01 DATE
 CHIEF, DIVISION OF LAND DEVELOPMENT
 [Signature] 2/26/01 DATE
 DIRECTOR



(9)D:/Drawings/VORH4-3/Nu-homes/lot15



SEDIMENT AND EROSION CONTROL NOTES

- A minimum of 48 hours notice must be given to the local Maryland State Highway System for the installation of a sediment control structure on any road or driveway.
- All vegetative and structural areas are to be restored according to the provisions of this plan and approved by the local Maryland State Highway System.
- Following final soil disturbance or redisturbance, permanent stabilization shall be completed within:
 - 14 days for a 1/2 acre or less area.
 - 14 days for a 1/2 acre or more area.
- All sediment traps/sumps shall be located on the working slopes and shall be maintained in accordance with the provisions of the "LOCAL COUNTY DESIGN MANUAL" Section 2.0.
- All sediment control structures shall be installed in accordance with the provisions of the "LOCAL COUNTY DESIGN MANUAL" Section 2.0.
- Any sediment control structure which is disturbed by grading activity for placement of fill must be repaired on the same day of disturbance.
- Additional sediment control must be provided as deemed necessary by the local Maryland State Highway System.
- On all sites with disturbed areas in excess of 1/2 acre, approval of the local Maryland State Highway System is required for the installation of permanent erosion and sediment controls, including the design, construction, and maintenance of these controls. The building of grading, retractor approvals may not be authorized until the local authority has approved the design and construction.
- On all sites with disturbed areas in excess of 1/2 acre, approval of the local Maryland State Highway System is required for the installation of permanent erosion and sediment controls, including the design, construction, and maintenance of these controls.
- The total amount of topsoil removed is 199 cubic yards.
- The total amount of super diversion fence is 0 cubic yards.

PERMANENT SEEDING NOTES

- Apply to graded or cleaned areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.
- Soil amendments in lieu of soil test recommendations, use one of the following schedules:
 - 1) Pre-landed: Apply 2 tons per acre dolomitic limestone (92 lb/1000 sq ft) for the period March 1 thru April 30 and August 1 thru October 15; seed with 50 lbs/1000 sq ft of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs/1000 sq ft of Kentucky 31 Tall Fescue. For the period November 1 thru February 28, protect site by applying 2 tons per acre of well-rotted straw mulch and seed as soon as possible in the spring, or use soil.
 - 2) Post-landed: Apply 2 tons per acre dolomitic limestone (92 lb/1000 sq ft) for the period March 1 thru April 30 and August 1 thru October 15; seed with 50 lbs/1000 sq ft of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs/1000 sq ft of Kentucky 31 Tall Fescue. For the period November 1 thru February 28, protect site by applying 2 tons per acre of well-rotted straw mulch and seed as soon as possible in the spring, or use soil.
- MULCHING: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of untreated small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 216 gallons per acre (10 gal/1000 sq ft) of smaller particle size straw (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 cleaned areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.
- Soil amendments in lieu of soil test recommendations, use one of the following schedules:
 - 1) Pre-landed: Apply 2 tons per acre dolomitic limestone (92 lb/1000 sq ft) for the period March 1 thru April 30 and August 1 thru October 15; seed with 50 lbs/1000 sq ft of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs/1000 sq ft of Kentucky 31 Tall Fescue. For the period November 1 thru February 28, protect site by applying 2 tons per acre of well-rotted straw mulch and seed as soon as possible in the spring, or use soil.
 - 2) Post-landed: Apply 2 tons per acre dolomitic limestone (92 lb/1000 sq ft) for the period March 1 thru April 30 and August 1 thru October 15; seed with 50 lbs/1000 sq ft of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs/1000 sq ft of Kentucky 31 Tall Fescue. For the period November 1 thru February 28, protect site by applying 2 tons per acre of well-rotted straw mulch and seed as soon as possible in the spring, or use soil.
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- MAINTENANCE: Inspect all seeded areas and make needed repairs, replacements and reseedings.

21.0 STANDARDS AND SPECIFICATIONS FOR TOPSOIL

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

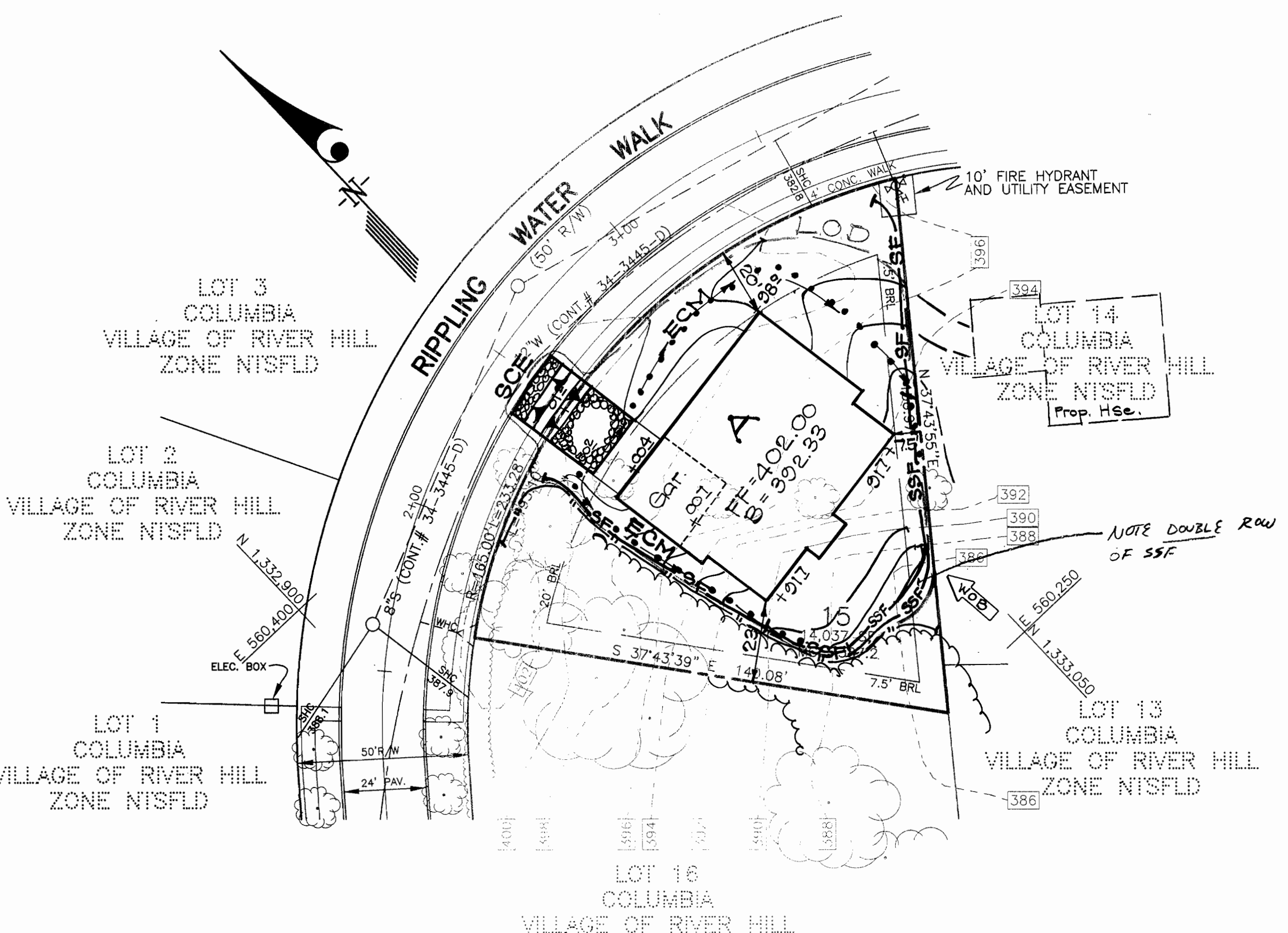
Purpose
To provide a suitable soil medium for vegetable growth. Soil of concern here has moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptably soil gradation.

Conditions Where Practice Applies

- The texture of the exposed subsoil/parent material is not adequate to produce vegetable growth.
- The soil material is so acidic that the rooting zone is not deep enough to support plants or furnish containing 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.

Construction and Material Specifications

- 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. In no case shall the topsoil be a mixture of contrasting textured subsoils and shall contain less than 3% by volume of clinders, stones, sags, cones, fragments, gravel, sticks, roots, trash, or other materials larger than 1 1/2 in. diameter.
 - Topsoil must be free of plants or plant parts such as Bermuda grass, goosegrass, johnsongrass, nutgrass, poison ivy, stink, or others as specified.
 - Where the subsoil is either highly acidic or composed of heavy clay or gravel, the topsoil shall be a minimum of 4-8 tons/acre (200-400 pounds per 1000 square feet) of limestone (80% CaCO₃) applied in the rate and manner specified in the following procedures.



APPROVED: DEPARTMENT OF PLANNING & ZONING
 Chief Development Engineering Division
 Chief, Division of Land Use & Planning
 Director

2/2/01
 2/6/01
 2/7/01

Reviewed by: HOWARD S.C.D.
 and meets Technical Requirements
 U.S. Natural Resources Conservation Service

Signature: [Signature]
 Date: 2/1/01

Signature: [Signature]
 Date: 2/1/01

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.

Signature: [Signature]
 Date: 12-7-00

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: 12-8-00

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

7135 MINSTREL WAY • COLUMBIA, MD 21045 • (410) 381-7500 BALT. • (301) 621-8100 WASH.

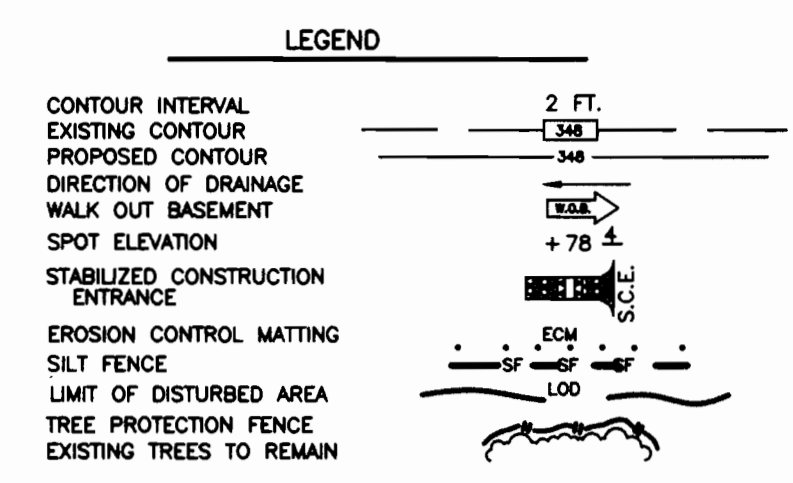
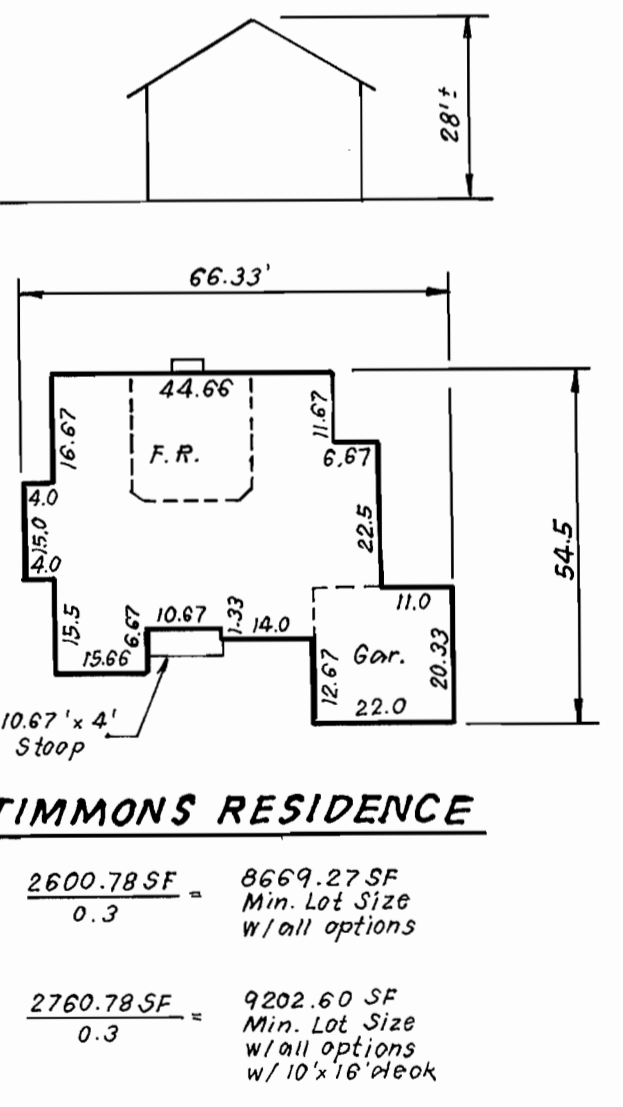
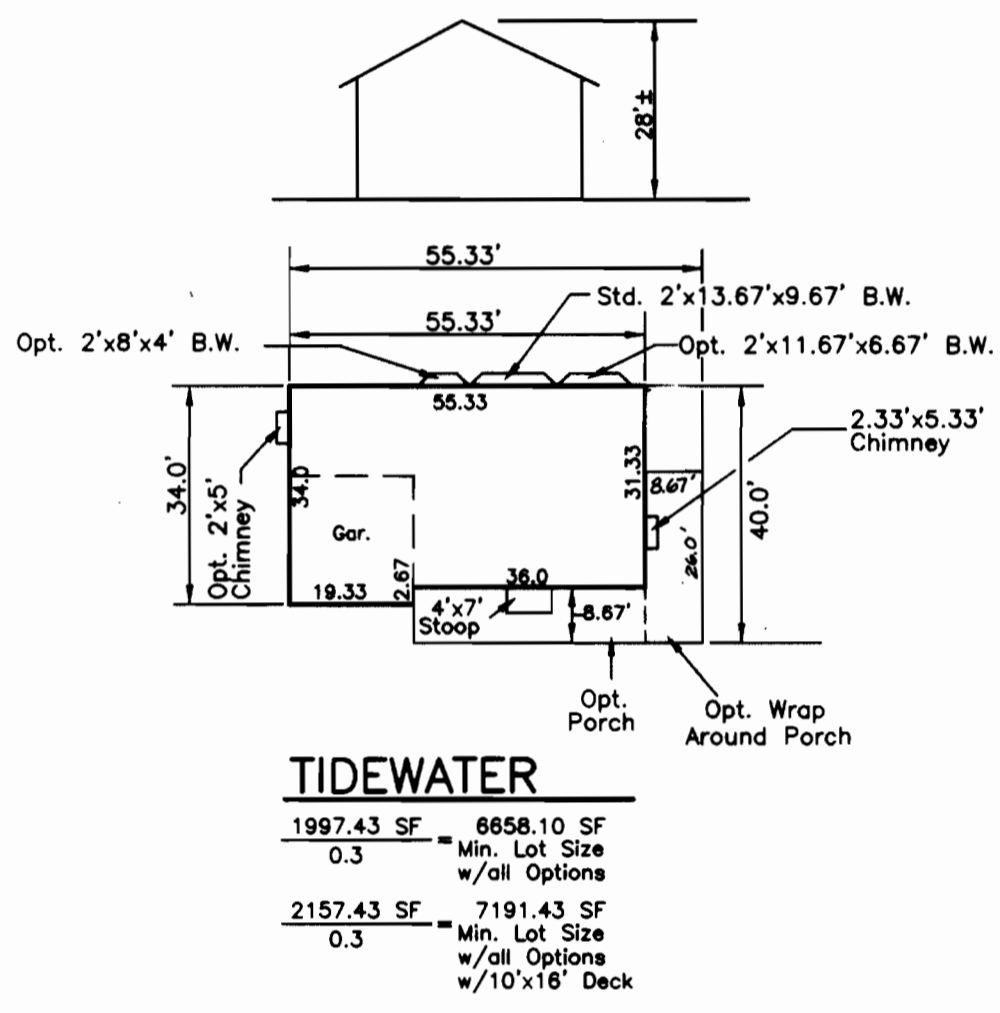
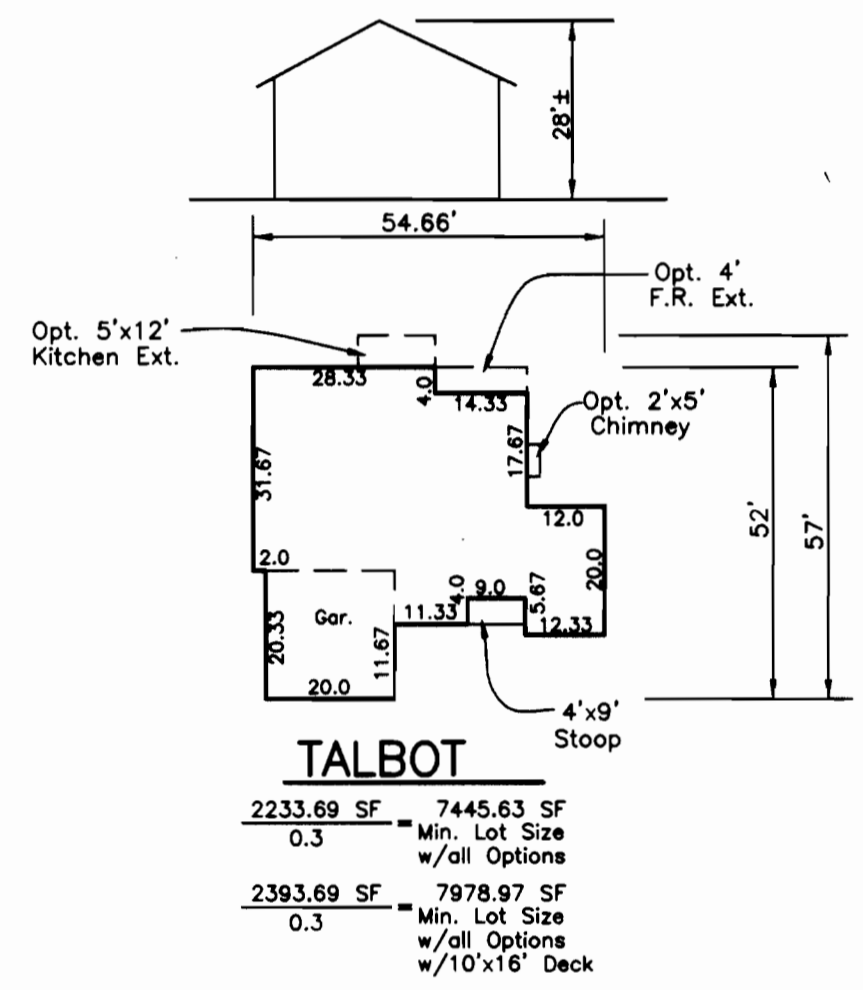
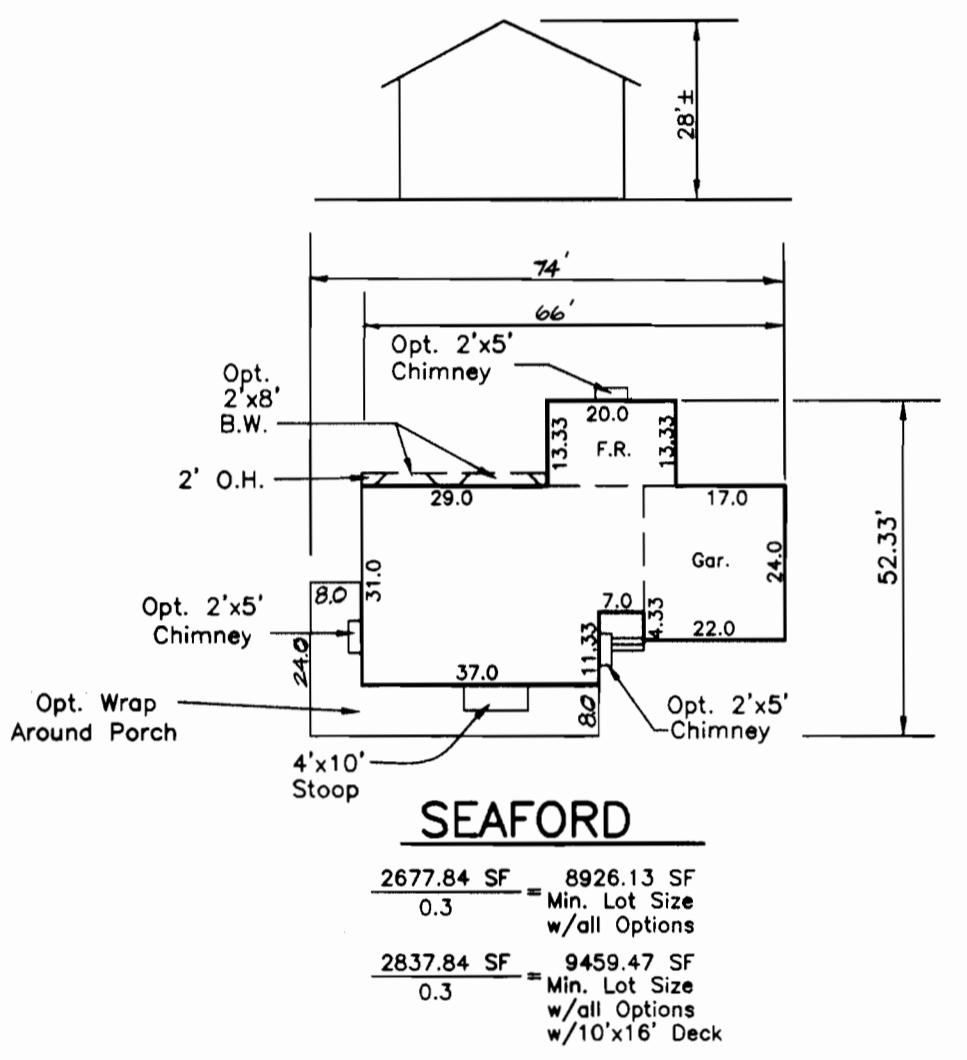
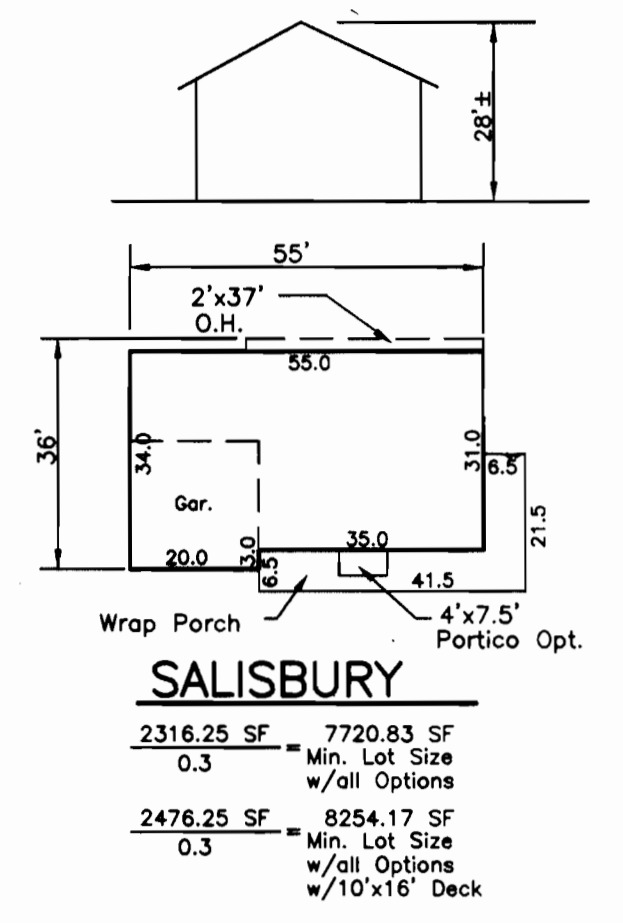
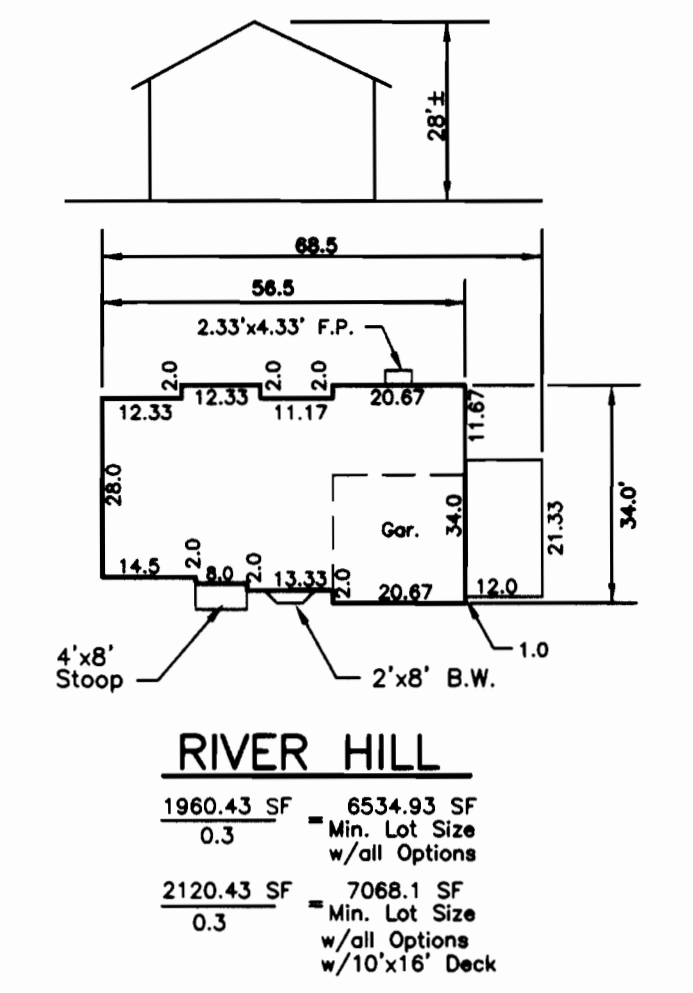
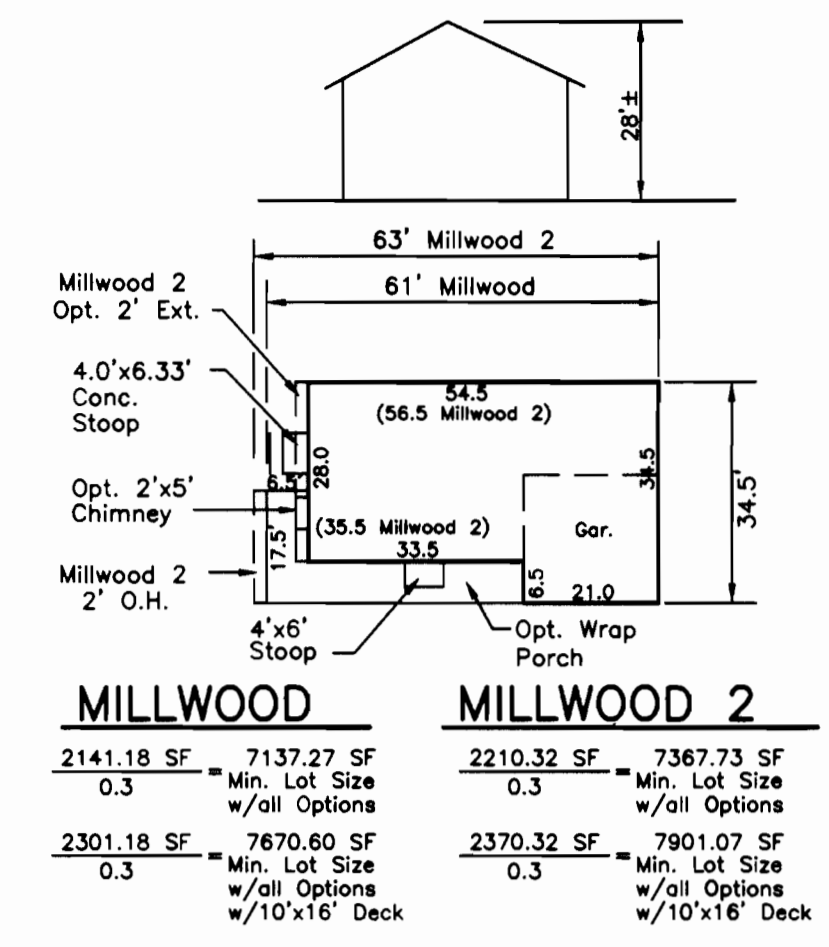
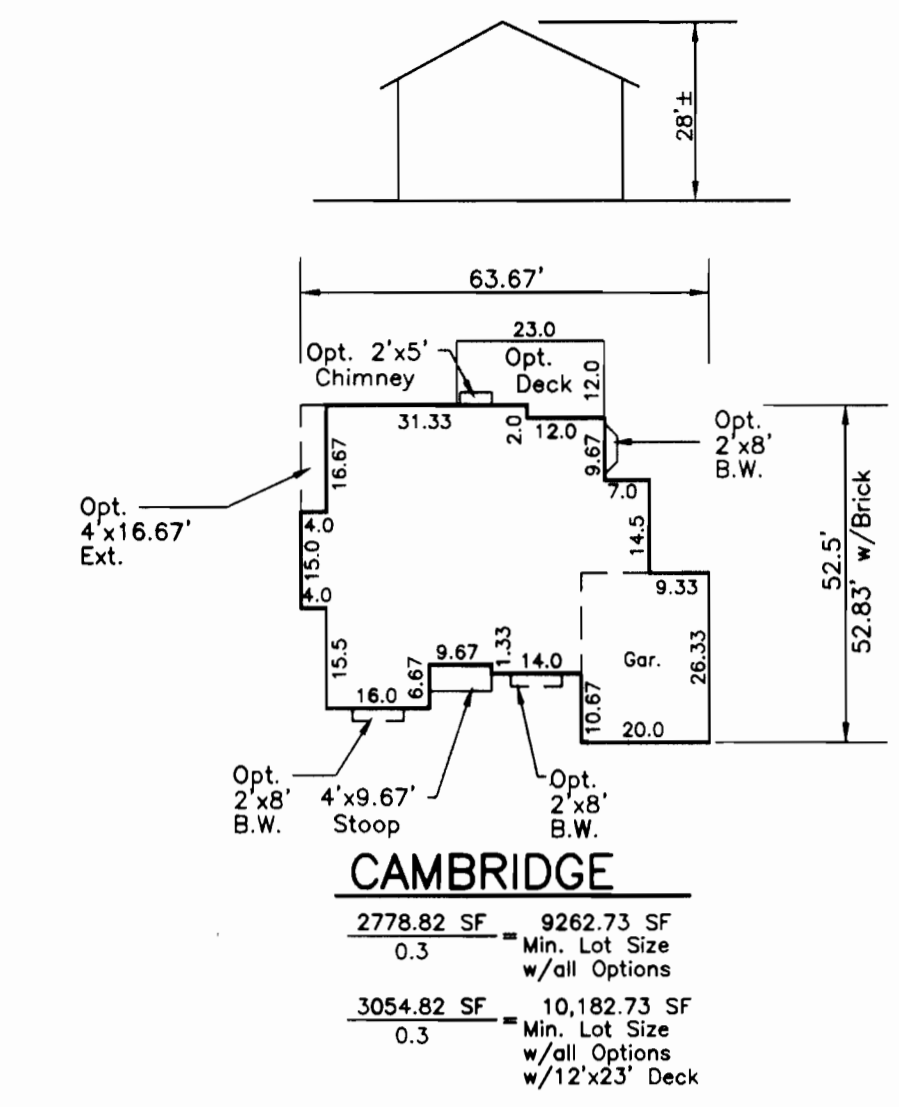
DESIGNED: P.C.
 DRAWN: KPL/B
 CHECKED: P.C.
 DATE: 12-7-00

SCALE: 1" = 30'
 DRAWING: 2 of 2
 JOB NO.: 00-156
 FILE NO.: 00-156-X

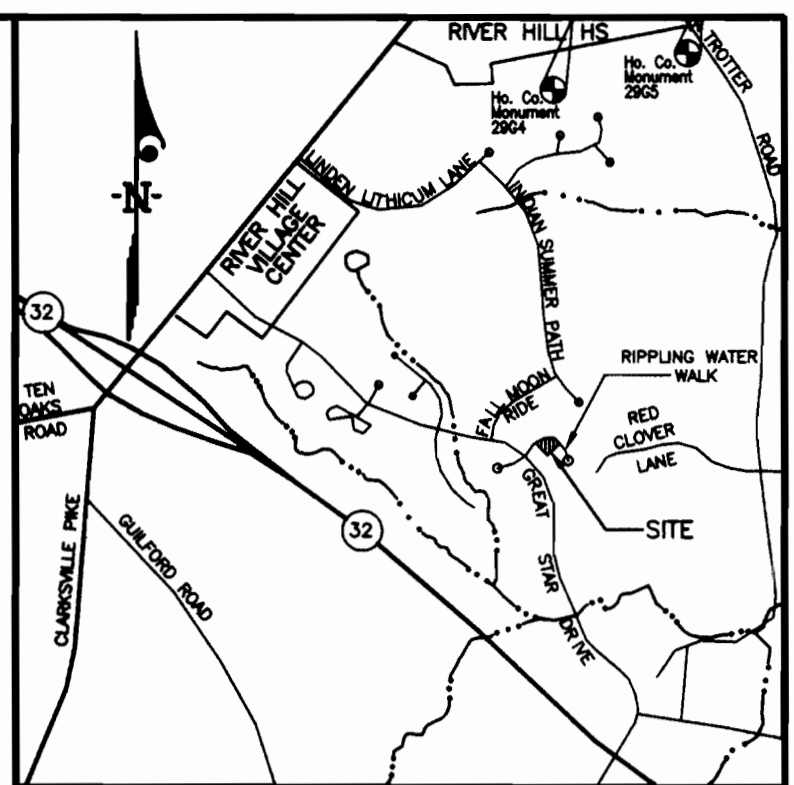
FOR: NU HOMES INC.
 10630 LITTLE PATUXENT PARKWAY, SUITE 146
 COLUMBIA, MARYLAND 21044

(9D)/Drawings/VORH-4-3/NU-homes/lot15

SDP-01-75



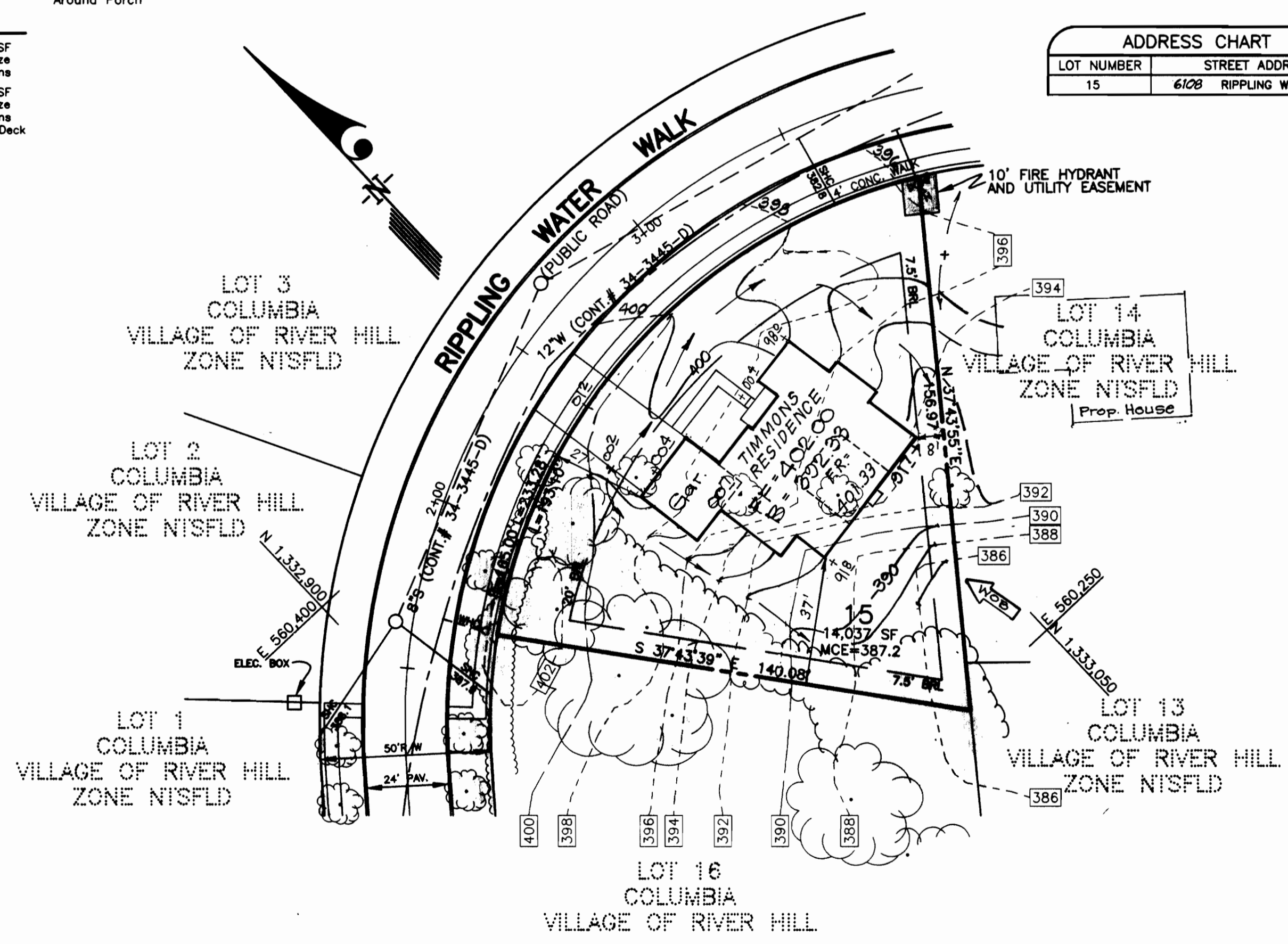
BENCHMARKS:
 Howard County Monument 2964
 Intersection of MD. Route 108 and Trotter Road
 Howard County Monument 2965
 an additional 2,544' ± Northeastly along MD. Route 108 away from Site



- GENERAL NOTES:**
- Subject property is zoned: NTSFLD per 10-18-93 Comprehensive Zoning Plan.
 - The total area included in this submission is : 0.3222 Acres.
 - The total number of lots included in this submission is : 1
 - Improvement to property : Single Family Detached
 - The maximum lot coverage permitted is : 30%
 - Department of Planning and Zoning reference file numbers : F-96-89, F-96-110, F-96-124, S-93-21, P-95-11, W&S Cont. #34-3445-D and #34-3586-D, WP-95-32, WP-95-78, and WP-95-114.
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 - All roadways are public and existing.
 - The existing topography was taken from Road Construction Plans prepared by Gutschick, Little & Weber in March 1996.
 - The coordinates shown hereon are based upon the Howard County Geodetic Control which is based upon the Maryland State Plane Coordinate System - Howard County Monuments Numbers : 2964 & 2965
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 - This project is exempt from the requirements of Section 16.1200 for the Howard County Code for forest conservation because in accordance with Section 16.1202(b)(1)(iv) this plan is part of a planned unit development which received preliminary plan approval prior to 12/31/92.

ADDRESS CHART

LOT NUMBER	STREET ADDRESS
15	6108 RIPPING WATER WALK



SPECIAL NOTES:
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SHEET INDEX

DESCRIPTION	SHEET NO.
SITE DEVELOPMENT PLAN	1 OF 2
SEDIMENT & EROSION CONTROL PLAN	2 OF 2

OWNER / DEVELOPER
 THE HOWARD RESEARCH AND DEVELOPMENT CORP.
 10725 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND 21044

SUBDIVISION NAME	SECTION/AREA	LOTS/PARCELS			
VILLAGE OF RIVER HILL	4/3	15			
PLAT NO.	BLOCK NO.	ZONE	TAX MAP NO.	ELECTION DIST.	CENSUS TRACT
12757	7	NTSFLD	35	5th	6055
WATER CODE	SEWER CODE				
I-10	6653000				

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

DESIGNED: *me*
 DRAWN: *KSL/ST*
 CHECKED: *J.M.E.*
 DATE: 12-7-00

SITE DEVELOPMENT PLAN
 LOT 15
COLUMBIA VILLAGE OF RIVER HILL
 SECTION 4 AREA 3
 FIFTH (5TH) ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

FOR: NU HOMES INC.
 10630 LITTLE PATUXENT PARKWAY, SUITE 146
 COLUMBIA, MARYLAND 21044

SCALE: 1" = 30'
 DRAWING: 1 of 2
 JOB NO.: 00-156
 FILE NO.: 00-156-X

APPROVED: DEPARTMENT OF PLANNING & ZONING
 Chief, Development Engineering Division: *[Signature]* 2/2/01
 Chief, Division of Land Development: *[Signature]* 2/6/01
 Director: *[Signature]* 2/7/01

REVISIONS

NO.	DATE	DESCRIPTION	BY
1	2/7/01	Rev. hse. & grad. on Lot 15 from 'A' Box to Timmons Residence and Timmons hse. typ.	4-18-01
2			

