

VICINITY MAP  
SCALE: 1"=100'

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF CONSTRUCTION INSPECTION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS 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.
- PROJECT BACKGROUND:  
LOCATION: GUILFORD, TAX MAP 42 & PARCEL 49  
ZONING: R-12  
SECTION/AREA: N/A  
SITE AREA: 4.5 AC.  
DATE FINAL PLAT RECORDED: JULY 23, 1998; PLAT NO: 10884  
DPZ REFERENCE #S-92-04, APPROVED SEPT. 4, 1991  
#P-92-02, APPROVED OCT. 9, 1992  
#F-93-58, APPROVED JAN. 6, 1993  
#WP-93-06, APPROVED OCT. 9, 1992  
WHICH GRANTED GRADING WITHIN WETLANDS.
- TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- ALL PLAN DIMENSIONS ARE TO BE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
- TOPOGRAPHY SHOWN IS BASED ON A FIELD RUN SURVEY PREPARED BY JOHN MELLEMA, INC., DATED JULY 1992.
- HORIZONTAL AND VERTICAL DATUMS BASED ON MARYLAND STATE COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY CONTROL STA. 42E3 & 42E4(NAD83).
- WATER & SEWER IS PUBLIC.  
WATER CONTRACT NO.: 24-3241-D  
SEWER CONTRACT NO.: 24-3241-D
- THERE IS NO FLOOD PLAIN ON SITE.
- STORMWATER MANAGEMENT IS TO BE A WET POND APPROVED UNDER F-93-58.
- WET LANDS SHOWN HEREON ARE BASED ON A WETLANDS ANALYSIS PREPARED BY MIDIRKS & CO. INC., ON JUNE 15, 1992 AND FIELD LOCATED BY JOHN MELLEMA, INC.
- STORMWATER MANAGEMENT FACILITY WILL BE COUNTY OWNED AND MAINTAINED.
- EXISTING UTILITIES WERE LOCATED BY COUNTY CONTRACT DRAWINGS AND SURVEY REFERENCED ABOVE.

INDEX OF SHEETS

SHT. NO.	TITLE
1	SITE DEVELOPMENT PLAN
2	SITE DEVELOPMENT PLAN
3	SEDIMENT CONTROL PLAN
4	SEDIMENT CONTROL PLAN
5	SEDIMENT CONTROL NOTES

INDIVIDUAL NAME: SECTION/AREA: 1-18

THORNTON WOODS - 1-18

10884 10 R-12 42 6th 6067.03

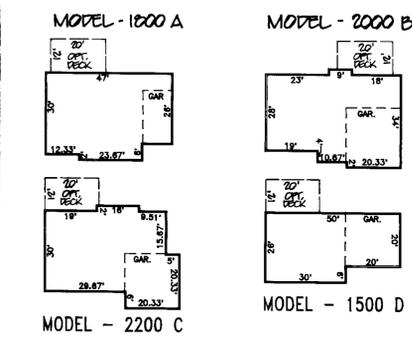
4-15-93 E-4 5 200 400

J N C SITE DEVELOPMENT PLAN 1"=30'

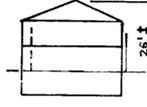
THORNTON WOODS, LOTS 1-18 10F 5

ORION HOMES  
4041 POWDER MILL ROAD  
CALVERTON, MD. 20705

SDP-93-97

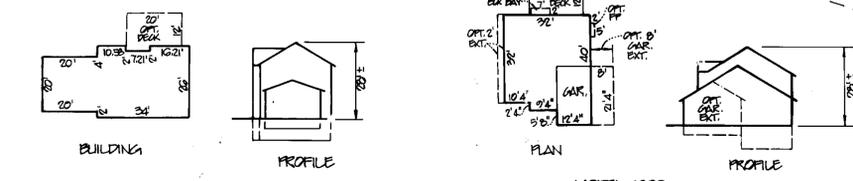


BUILDING PLANS



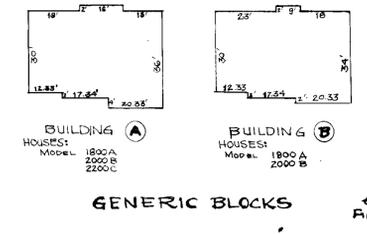
PROFILE  
SCALE 1"=30'

LOT NO.	ADDRESS	POSSIBLE HOUSE MODELS	SEWER HOUSE CONN. ELEV.
1	9511 RIDGEVIEW DRIVE	1500 D	340.30
2	9515 RIDGEVIEW DRIVE	1500 D	340.50
3	9500 THORNTON WOODS WAY	1800 A, 2000 B, 2200 C	339.12
4	9504 THORNTON WOODS WAY	1800 A, 2000 B, 2200 C	339.12
5	9508 THORNTON WOODS WAY	1800 A, 2000 B, 2200 C	338.37
6	9512 THORNTON WOODS WAY	1800 A, 2000 B, 2200 C	344.48
7	9516 THORNTON WOODS WAY	1800 A, 2000 B, 2200 C	344.18
8	9520 THORNTON WOODS WAY	1800 A, 2000 B, 2200 C	345.10
9	9524 THORNTON WOODS WAY	1800 A, 2000 B, 2200 C	345.98
10	9528 THORNTON WOODS WAY	1800 A, 2000 B, 2200 C	347.34
11	9532 THORNTON WOODS WAY	1800 A, 2000 B, 2200 C	344.81
12	9536 THORNTON WOODS WAY	1800 A	341.33
13	9531 THORNTON WOODS WAY	1800 A, 2000 B, 2200 C	347.22
14	9527 THORNTON WOODS WAY	1800 A, 2000 B, 2200 C	346.78
15	9523 THORNTON WOODS WAY	1800 A, 2000 B, 2200 C	345.88
16	9519 THORNTON WOODS WAY	1800 A, 2000 B, 2200 C	345.23
17	9511 ROMMEL DRIVE	1800 A, 2000 B, 2200 C	339.53
18	9507 THORNTON WOODS WAY	1800 A, 2000 B, 2200 C	339.05



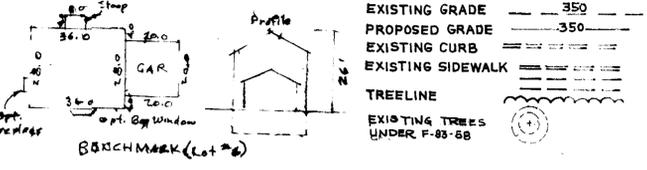
SEVERN  
SCALE: 1"=30'

MODEL 1600 ELLICOTT  
SCALE: 1"=30'



GENERIC BLOCKS

PLAN  
SCALE 1"=30'

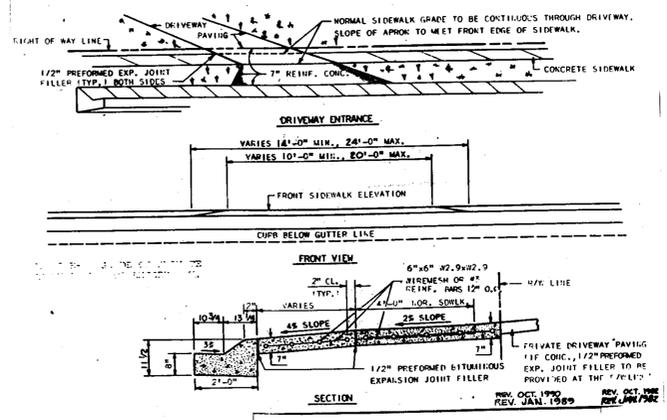
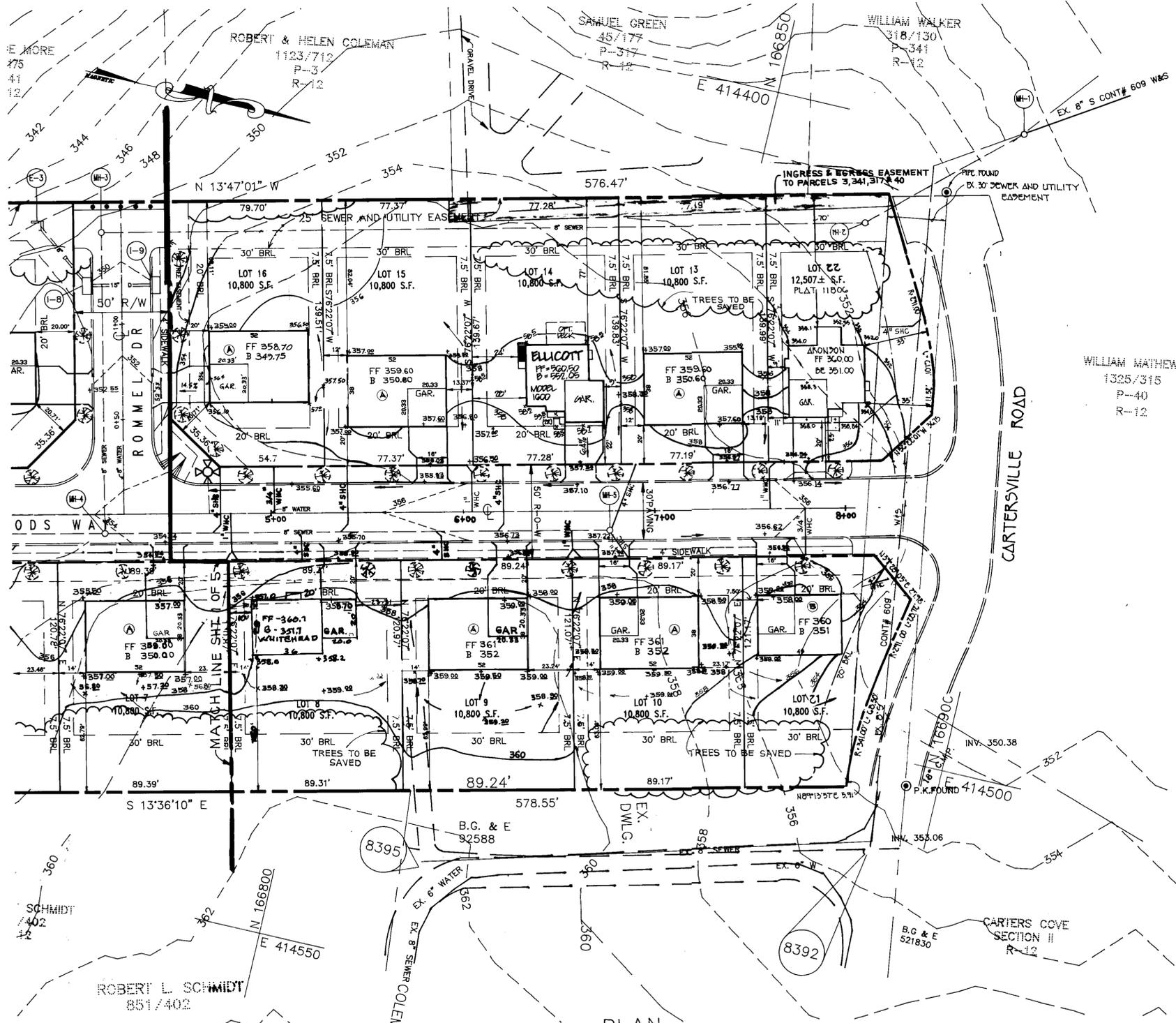


LEGEND:

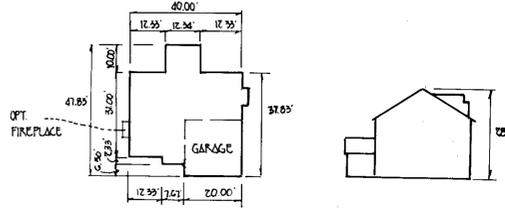
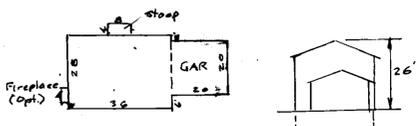
8-11-93  
8/16/93  
8/16/93  
8/15/90  
8/2/92

James J. [Signature]  
[Signature]  
[Signature]  
[Signature]

NO.	REVISION	DATE
4	REV MODEL & GRADING ON LOT 6	8-16-93
3	ADDED ELLICOTT UNIT TYPE W/GRADING ON LOT 18, ADDED SECTION	4/2/90
2	RESITE LOT 1 TO SEVERN	12/7/94
1	RESITE LOT 2 & ADDED HOUSE PLAN & PROFILE	8/16/92



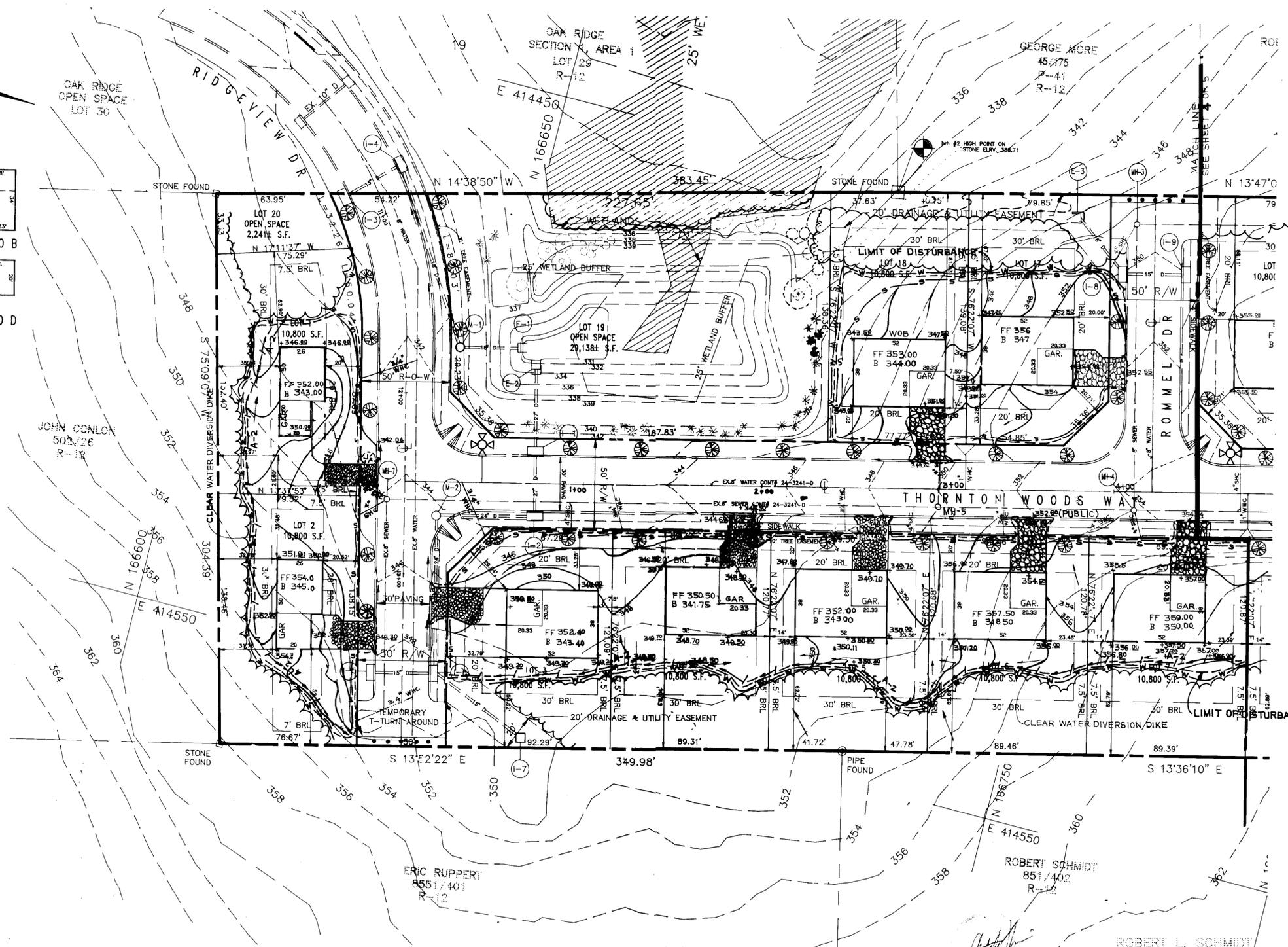
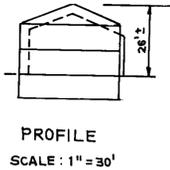
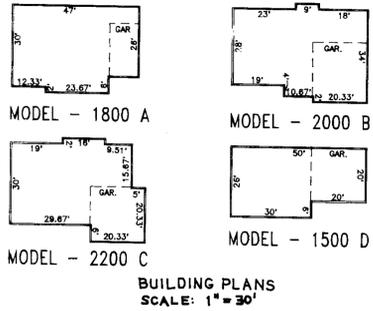
RESIDENTIAL DRIVEWAY ENTRANCE  
CLOSED SECTION WITH MODIFIED COMBINATION  
CURB AND GUTTER AND SIDEWALK



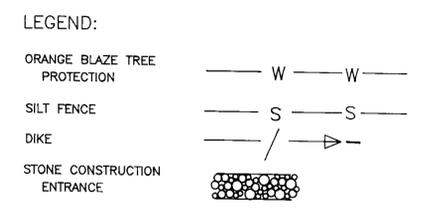
*Jean Poff* 8-11-93  
*Jungil Scott* 8/14/93  
*Richard Blood* 8/16/93  
  
*Ramon P. Lee* 8/10/93  
*Paul J. Jagan* 8/12/93

No.	DESCRIPTION	DATE
5	REV. MODEL & GRADING "B" LOT 8	11-26-97
4	REV. MOD. GRD ON LOT 22	7-6-97
3	REV. LOT LINES & BAL. ON LOTS 21 & 22, REV. MOD. ON LOT 22	10-22-96
2	RELOCATE DRIVEWAY ENTR. ON LOT 16 SHOWN AN	4/8/96
1	RELOCATE DRIVEWAY ENTR. ON LOT 16	11-22-95
No.	DESCRIPTION	DATE

THORNTON WOODS 1 - 18  
R-20 42 6th  
E - 4 5 200 400  
SITE DEVELOPMENT PLAN  
THORNTON WOODS, LOTS 1 - 18  
OWNER: ORION HOMES  
4041 POWDER MILL ROAD  
CALVERTON, MD. 20745  
SDP-93-97



- SEQUENCE OF CONSTRUCTION:
1. OBTAIN GRADING & BUILDING PERMIT.
  2. INSTALL ORANGE BLAZE WIRE MESH TREE PROTECTION.
  3. INSTALL ALL SEDIMENT CONTROL MEASURES SUCH AS STONE CONSTRUCTION ENTRANCE AND SILT FENCE AND EARTH DIKES.
  4. CONSTRUCT BUILDINGS AND GRADE LOTS AS SHOWN.
  5. STABILIZE ALL DISTURBED AREAS.
  6. REMOVE SEDIMENT CONTROL MEASURES AFTER APPROVAL FROM HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.



PLAN  
SCALE 1" = 30'

*Jorge Boffa* 8/11/93  
*Jorge Boffa* 8/16/93  
*Richard Blood* 8/16/93  
*James P. Slon* 8/16/93  
*Paul M. Sapon* 8/19/93

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for the Soil and Sediment Control.

*James M. T. [Signature]* 8/4/93  
Soil Conservation Service Date

These plans for Soil and Sediment Control meet the requirements of the Howard County Soil Conservation District.

*John R. [Signature]* 8/4/93  
Howard Soil Conservation District Date

DEVELOPER'S/BUILDER'S CERTIFICATE

I/We certify that all development and construction will be done in accordance with this plan, and that any responsible personnel involved in the construction will have a Certificate of Attendance at the Department of the Environment Approved Training Program for the Control of Sediment before beginning the project. I also authorize periodic inspection by the Howard Soil Conservation Service.

*F. [Signature]* 8/10/93  
BUILDER/DEVELOPER DATE

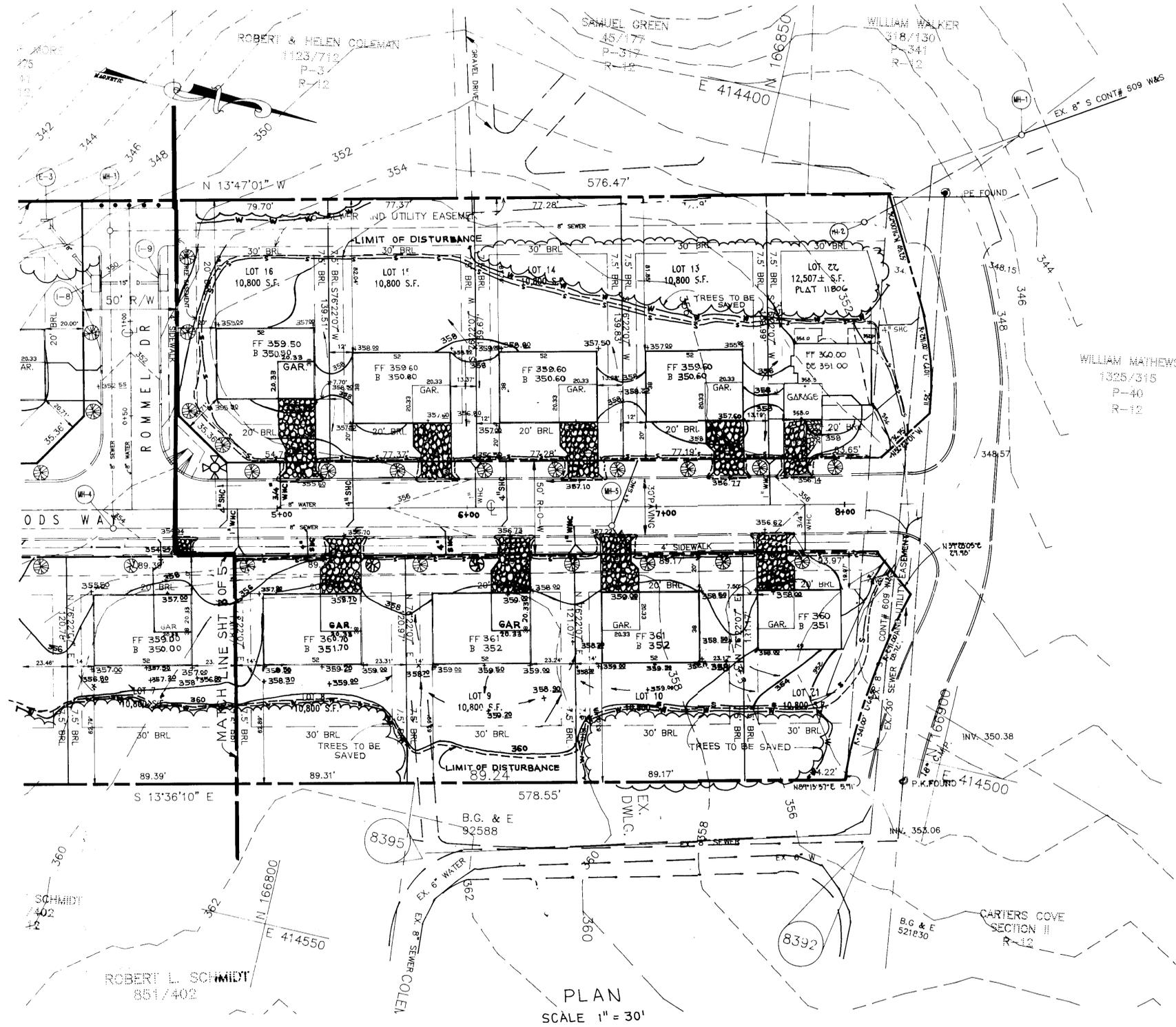
ENGINEER'S CERTIFICATE

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 and conditions and it was prepared in accordance with the requirements of Howard Soil Conservation District.

*Robert L. Schmidt* 8/10/93  
SIGNATURE OF ENGINEER DATE

THORNTON WOODS  
R-20 42 6th  
E - 4 5 200 400

SEDIMENT CONTROL PLAN 1" = 30'  
JNC THORNTON WOODS, LOTS 1-18 3 OF 5



PLAN  
SCALE 1" = 30'

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT  
*James J. [Signature]* 8-11-93  
COUNTY HEALTH OFFICER DATE  
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
*Richard Blood* 8/16/93  
PLANNING DIRECTOR DATE  
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT  
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.  
*James J. [Signature]* 8/16/93  
CHIEF, BUREAU OF ENGINEERING DATE

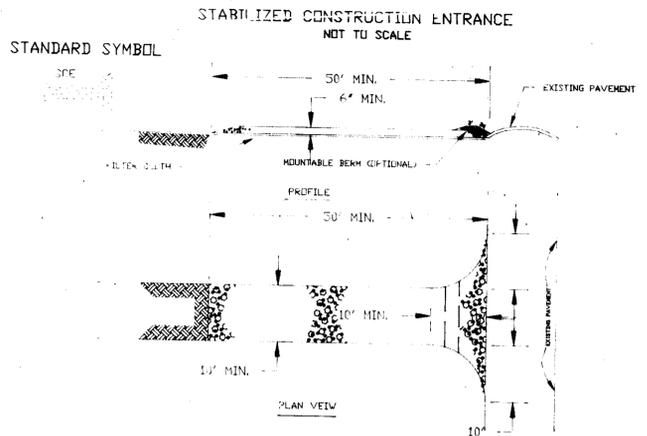
**Orion Engineering Inc.**  
CONSULTING ENGINEERS—LAND PLANNERS—SURVEYORS  
3230 BETHANY LANE, SUITE 4, ELLICOTT CITY, MD.  
301-465-0400

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for the Soil and Sediment Control.  
*[Signature]* 8/4/93  
U.S. Soil Conservation Service DATE  
These plans for Soil and Sediment Control meet the requirements of the Howard County Soil Conservation District.  
*[Signature]* 8/4/93  
Howard Soil Conservation District DATE

DEVELOPER'S/BUILDER'S CERTIFICATE  
I/We certify that all development and construction will be done in accordance with this plan, and that any responsible personnel involved in the construction will have a Certificate of Attendance at the Department of the Environment Approved Training Program for the Control of Sediment before beginning the project. I also authorize periodic inspection by the Howard Soil Conservation Service.  
*[Signature]* 4/15/93  
BUILDER/DEVELOPER 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 and conditions and it was prepared in accordance with the requirements of Howard Soil Conservation District.  
*[Signature]* 8-2-93  
SIGNATURE OF ENGINEER DATE

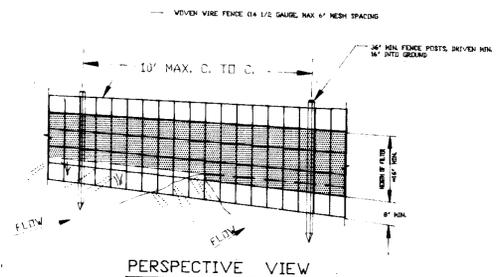
SUBDIVISION NAME:		SECTION/AREA	LOT NO.
THORNTON WOODS			1 - 18
PLAT NO. BLOCK NO. ZONE:	TAX-ZONE. ELECT. DIST. CENSUS TR.		
	R-20 42 6th		
WATER CODE	SEWER CODE		
E - 4	5 200 400		
DESIGNED M.L.L.	SEDIMENT CONTROL PLAN		SCALE: 1" = 30'
DRAWN J.N.C.	THORNTON WOODS, LOTS 1 - 18		DRAWING NO. 4 OF 5
CHECKED M.L.L.	OWNER: ORION HOMES 4041 POWDER MILL ROAD CALVERTON, MD. 20705		JOB NO.
DATE 4-18-93			FILE
SDP-93-97			



**CONSTRUCTION SPECIFICATION**

1. STONE SIZE - USE 2" STONE OR RECYCLED CONCRETE EQUIVALENT. LENGTH AS REQUIRED, BUT NOT LESS THAN 6 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30' MINIMUM LENGTH WOULD APPLY).
2. THICKNESS - NOT LESS THAN SIX (6) INCHES.
3. WIDTH - 54" TO 60" TYP. MINIMUM, BUT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
4. 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.
5. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BEAM WITH SOI SLOPES WILL BE PERMITTED.
6. 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 REPLACEMENT OF ANY MEASURES USED TO PREVENT SEDIMENT, ALL SEDIMENT SPILLAGE, DRIPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
7. WASHOUT - WHEEL SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO EXITING SITE. PUBLIC RIGHTS-OF-WAY WHEN IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
8. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

**SILT FENCE**



**PERSPECTIVE VIEW**

**SECTION**

**CONSTRUCTION NOTES FOR FABRICATION SILT FENCE**

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 TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FILDED.
  4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN BULGES DEVELOP IN THE SILT FENCE.
- POSTS: STEEL EITHER T OR U TYPE OR 2" HARDWOOD  
FENCE: WOVEN WIRE, 14.5 GAL/6' MAX. MESH OPENING  
FILTER CLOTH: FILTER X, MIRAFI 100-X, STABI-LINKA T 140 N OR APPROVED EQUAL.  
PREFABRICATED UNIT: GEOTAB, ENVIRONMENTAL, OR APPROVED EQUAL.

**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, UNLESS 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 SQUARE FEET) 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 (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 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/100 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 SEEDING 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, UNLESS 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 (32 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 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 RATE AND METHODS NOT COVERED.

**STANDARD AND SPECIFICATION FOR VEGETATIVE STABILIZATION WITH SOD**

1. CLASS OF TURFGRASS SOD SHALL BE MARYLAND OR VIRGINIA STATE CERTIFIED, OR MARYLAND OR VIRGINIA STATE APPROVED SOD.
2. SOD SHALL BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF 3/4 INCH PLUS OR MINUS 1/4 INCH, AT THE TIME OF CUTTING. MEASUREMENT FOR THICKNESS SHALL EXCLUDE TOP GROWTH AND THATCH.
3. STANDARD SIZE SECTIONS OF SOD SHALL BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP ON THE UPPER 10 PERCENT OF THE SECTION.
4. INDIVIDUAL PIECES OF SOD SHALL BE CUT TO THE SUPPLIER'S WIDTH AND LENGTH. MAXIMUM ALLOWABLE DEVIATION FROM STANDARD WIDTHS AND LENGTHS SHALL BE 5 PERCENT. BROKEN PADS AND TORN OR UNEVEN ENDS WILL NOT BE ACCEPTABLE.
5. SOD SHALL NOT BE HARVESTED OR TRANSPORTED WHEN MOISTURE CONTENT (EXCESSIVELY DRY OR WET) MAY ADVERSELY AFFECT ITS SURVIVAL.
6. SOD SHALL BE HARVESTED, DELIVERED AND INSTALLED WITHIN A PERIOD OF 36 HOURS. SOD NOT TRANSPORTED WITHIN THIS PERIOD SHALL BE INSPECTED AND APPROVED PRIOR TO ITS INSTALLATION.

**1. SITE PREPARATION**

FERTILIZER AND LIME APPLICATION RATES SHALL BE DETERMINED BY SOIL TESTS. UNDER UNUSUAL CIRCUMSTANCES WHERE THERE IS UNSUFFICIENT TIME FOR A COMPLETE SOIL TEST, FERTILIZER AND LIME MATERIALS MAY BE APPLIED IN AMOUNTS SHOWN UNDER B, BELOW.

A. PRIOR TO SODDING, THE SURFACE SHALL BE CLEARED OF ALL TRASH, DEBRIS, AND OF ALL ROOTS, BRUSH, WIRE, GRADE STAKES, AND OTHER OBJECTS THAT WOULD INTERFERE WITH PLANTING, FERTILIZING OR MAINTENANCE OPERATIONS.

B. WHERE THE SOIL IS ACID OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 2 TONS/ACRE OR 100 POUNDS PER 1000 SQUARE FEET. IN ALL SOILS 1000 POUNDS PER ACRE OR 25 POUNDS PER 1000 SQUARE FEET OF 10-10-10 FERTILIZER OR EQUIVALENT SHALL BE UNIFORMLY APPLIED AND MIXED INTO THE TOP 3 INCHES OF SOIL WITH THE REQUIRED LIME.

C. ALL AREAS RECEIVING SOD SHALL BE UNIFORMLY FINE GRADED. HARD-PACKED EARTH SHALL BE SCARIFIED PRIOR TO PLACEMENT OF SOD.

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, 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	4.50	ACRES
AREA DISTURBED	0.72	ACRES
AREA TO BE ROOFED OR PAVED	0.98	ACRES
AREA TO BE VEGETATIVELY STABILIZED	1.78	ACRES
TOTAL GALL.	1000	CU. YDS
TOTAL FILL	1000	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 CONTROLS 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.

**GENERAL NOTES**

1) REFER TO 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR STANDARD DETAILS AND DETAILED SPECIFICATIONS OF EACH PRACTICE SPECIFIED HEREIN.

2) WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, MINOR FIELD ADJUSTMENTS CAN AND WILL BE MADE TO INSURE THE CONTROL OF ANY SEDIMENT CHANGES IN SEDIMENT CONTROL PRACTICES REQUIRE PRIOR APPROVAL OF THE SEDIMENT CONTROL INSPECTOR AND THE COUNTY SOIL CONSERVATION DISTRICT.

3) AT THE END OF EACH WORKING DAY, ALL SEDIMENT CONTROL PRACTICES WILL BE INSPECTED AND LEFT IN OPERATIONAL CONDITION.

4) FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) SEVEN CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) AND (B) FOURTEEN DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

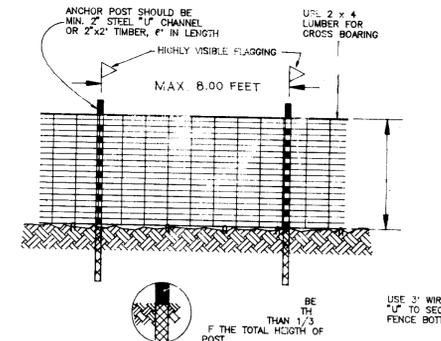
5) ANY CHANGE TO THE GRADING PROPOSED ON THIS PLAN REQUIRES RE-SUBMISSION TO COUNTY SOIL CONSERVATION DISTRICT FOR APPROVAL.

6) DUST CONTROL WILL BE PROVIDED FOR ALL DISTURBED AREAS. REFER TO 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, PP 62.01 AND 62.02 FOR ACCEPTABLE METHODS AND SPECIFICATIONS FOR DUST CONTROL.

7) ANY VARIATION FROM THE SEQUENCE OF OPERATIONS STATED ON THIS PLAN REQUIRES THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR AND THE COUNTY SOIL CONSERVATION DISTRICT PRIOR TO THE INITIATION OF THE CHANGE.

8) EXCESS CUT OR BORROW MATERIAL SHALL GO TO OR COME FROM, RESPECTIVELY, A SITE WITH AN APPROVED SEDIMENT CONTROL PLAN. THE FOLLOWING ITEM MAY BE USED AS APPLICABLE:

9) REFER TO 'MARYLAND'S GUIDELINES TO WATERWORKS CONSTRUCTION' BY THE WATER RESOURCES ADMINISTRATION (WRA), DATED JANUARY, 1986 FOR STANDARD DETAILS AND DETAILED SPECIFICATIONS OF EACH PRACTICE SPECIFIED HEREIN FOR WATERWAY CONSTRUCTION.



**NOTES:**

1. FOREST PROTECTION DEVICE ONLY
2. RETENTION AREA WILL BE SET AS PART OF THE REVIEW PROCESS
3. BOUNDARIES OF RETENTION AREA SHOULD BE STAKE AND FLAGGED PRIOR TO INSTALLING DEVICE
4. ROOT DAMAGE SHOULD BE AVOIDED
5. PROTECTIVE SIGNAGE MAY ALSO BE USED
6. DEVICE SHOULD BE MAINTAINED THROUGHOUT CONSTRUCTION.

**BLAZE ORANGE PLASTIC MESH**

NOT TO SCALE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT  
COUNTY HEALTH OFFICER  
DATE 8/11/93  
APPROVED FOR COUNTY DEPARTMENT OF PLANNING & ZONING  
PLANNING DIRECTOR  
DATE 8/14/93  
APPROVED FOR DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT  
DATE 8/16/93  
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
DATE 8/16/93  
DATE 8/19/93

oria engineering inc.  
CONSULTING ENGINEERS • PLANNERS • SURVEYORS  
3020 HETHANY LAKE, SUITE 4  
FLEETWOOD CITY, MARYLAND 21033  
TEL. (301) 486-0446

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for soil and sediment control.  
DATE 8/14/93  
These plans for soil and sediment control meet the requirements of the Howard Soil Conservation District.  
DATE 8/19/93

**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 and conditions and it was prepared in accordance with the requirements of Howard Soil Conservation District.  
SIGNATURE OF ENGINEER  
DATE

**DEVELOPER'S/BUILDER'S CERTIFICATE**  
I/We certify that all development and construction will be done in accordance with this plan, and that any responsible personnel involved in the construction will have a Certificate of Attendance at the Department of the Environment Approved Training Program for the Control of Sediment before beginning the project. I also authorize periodic inspection by the Howard Soil Conservation Service.  
SIGNATURE OF DEVELOPER  
DATE 8/15/93

THORNTON WOODS, LOTS 1-18  
**SEDIMENT AND EROSION CONTROL NOTES**  
OWNER:  
ORION HOMES  
4041 POWDER MILL ROAD  
CALVERTON, MD. 20705  
SCALE: DATE: 4-15-93 SHEET 5 of 5  
DESIGNED: MLL DRAWN: JNC CHECKED: MLL  
SDP-93-47