

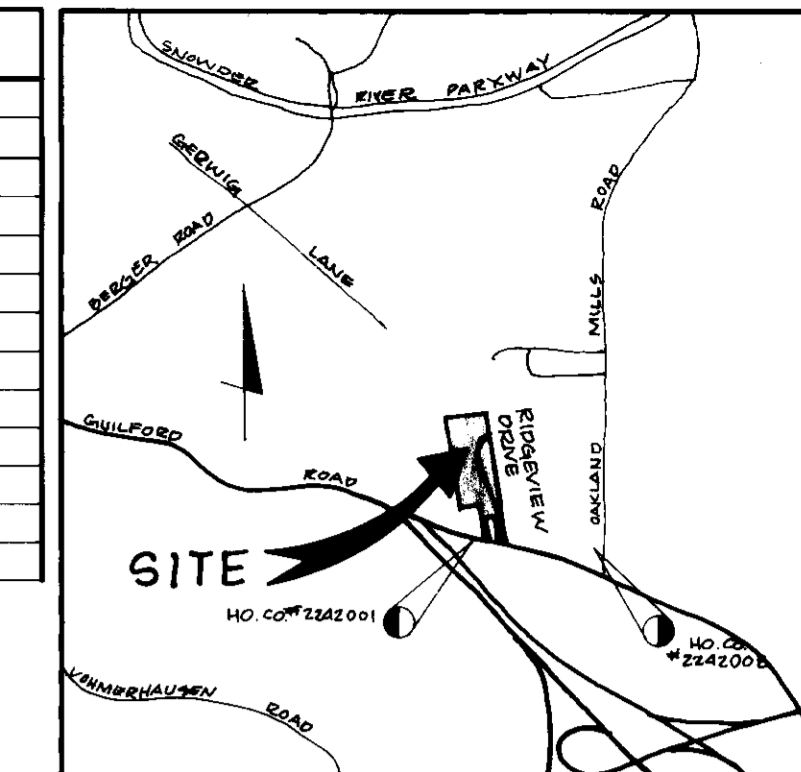
SHEET INDEX	
No.	DESCRIPTION
1	SITE DEVELOPMENT PLAN
2	SITE DEVELOPMENT PLAN
3	SEDIMENT CONTROL AND SOILS PLAN
4	SEDIMENT CONTROL AND SOILS PLAN
5	DETAILS

GRID NORTH

ADDRESS CHART			
SUBDIVISION OAK RIDGE			
LOT NO.	STREET ADDRESS	LOT NO.	STREET ADDRESS
1	9420	12	9478
2	9424	13	9482
3	9440	14	9486
4	9444	15	9490
5	9450	16	9494
6	9454	17	9498
7	9458	18	9502
8	9462	19	9506
9	9466	20	9475
10	9470	21	9471
11	9474	22	9467

SUBDIVISION CAMPBELL PROPERTY	
LOT NO.	STREET ADDRESS
2	9428
3	9432
4	9436



**BENCH MARKS**

NO. CO. # 224001	ELEV. 358.340
CONC. MON. 4" SOUTH OF SOUTH EDGE OF GUILFORD ROAD NEAR HOUSE #305, 1' BELOW SURFACE	E 64868.165
NO. CO. # 224002	ELEV. 365.719
REBAR 7.5" NORTH EAST OF HALL & GAP IN POLE CORNER ON THE NORTH EAST SIDE OF OAKLAND MILLS ROAD NEAR THE INTERSECTION OF GUILFORD ROAD (RTE 32)	E 84798.759
NO. 48461.531	E 84798.759

**MINIMUM LOT SIZE CHART**

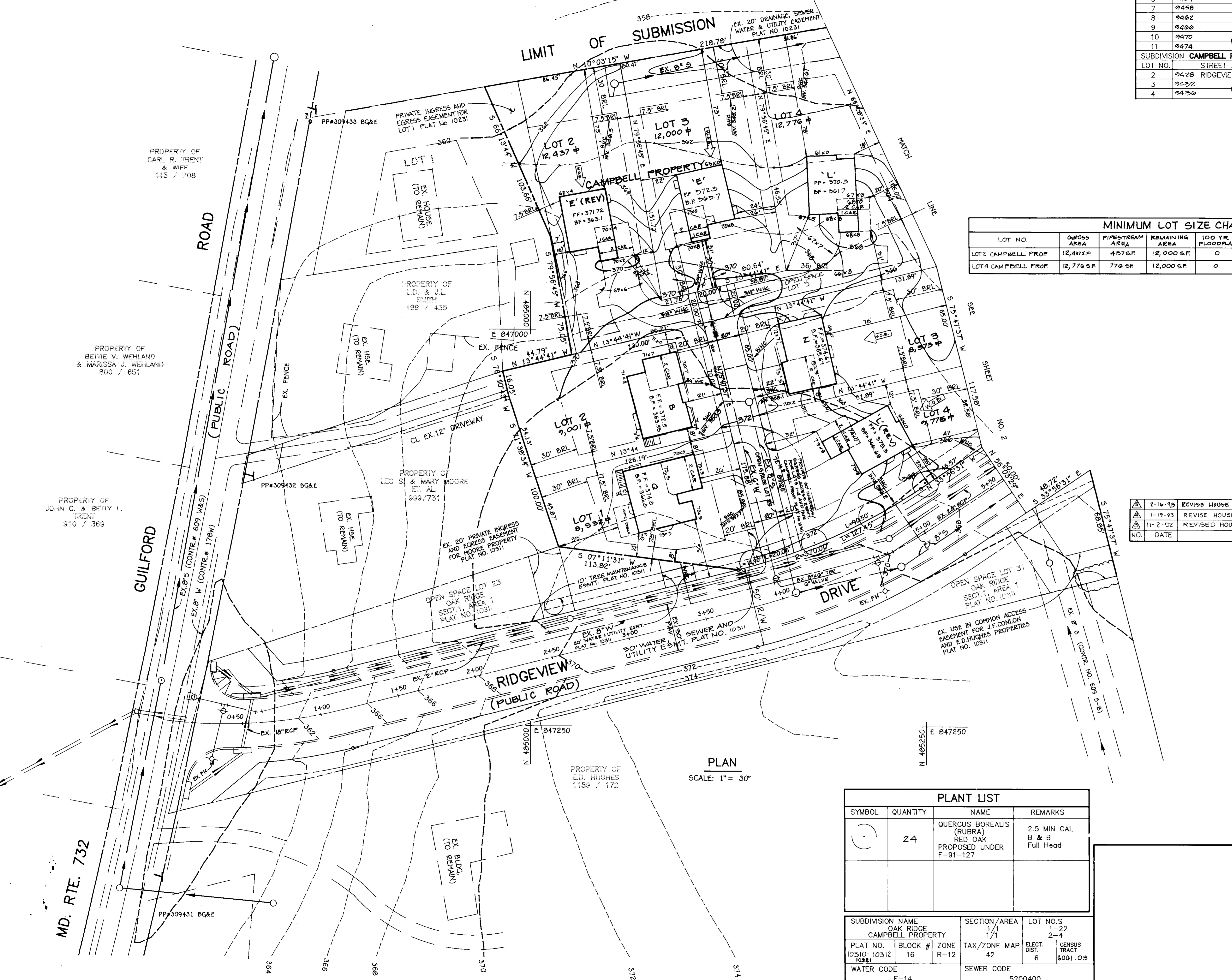
LOT NO.	OROGS AREA	PIPE-STREAM AREA	REMAINING AREA	100 YR FLOODPLAIN	25% SLOPES	MINIMUM LOT SIZE
LOT 2 CAMPBELL PROP	12,437 SF	457 SF	12,000 SF	0	0	12,000 SF
LOT 4 CAMPBELL PROP	12,776 SF	776 SF	12,000 SF	0	0	12,000 SF

**SITE ANALYSIS**

TOTAL AREA OF LOTS	5,385 Ac.
EXISTING ZONING	R-12
UNIT TYPE	SINGLE FAMILY DETACHED
MAXIMUM BUILDING COVERAGE ALLOWED	30%
NO. OF UNITS PROPOSED	25

- GENERAL NOTES**
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS / BUREAU OF CONSTRUCTION INSPECTION AT (301) 792-7772 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
  - THE CONTRACTOR SHALL NOTIFY "MISS UTILITIES" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
  - ALL ROADWAYS ARE PUBLIC AND EXISTING.
  - ANY DAMAGE TO THE COUNTY'S RIGHT OF WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.
  - THE MAXIMUM LOT COVERAGE IS 30% PER LOT.
  - 2" TOPO TAKEN FROM FIELD RUN SURVEY PERFORMED BY TRACY, SCHULTE AND ASSOCIATES, DATED DEC. 1988 AND MAR 1992 AND AS PER ROAD CONSTRUCTION PLANS F-91-127.
  - PUBLIC WATER AND SEWER SHOWN FOR REFERENCE ONLY. FOR MORE DETAILED INFORMATION, SEE WATER AND SEWER PLANS CONTRACT NO. 24-3100-D.
  - PORCHES, FIREPLACES, CHIMNEYS AND BAY WINDOWS WHICH EXTEND ACROSS THE B.R.L. SHALL BE IN ACCORDANCE WITH ZONING REGULATIONS SECTION 128.
  - NO WETLANDS EXIST WITHIN THE LOTS OF THIS SUBDIVISION.
  - INDICATE WALKOUT BASEMENT
  - STORMWATER MANAGEMENT FOR THESE LOTS IS PROVIDED UNDER F-91-127.
  - THE MINIMUM DISTANCE BETWEEN DRIVEWAY AND PROPERTY LINE SHALL BE 2'.
  - FOR DRIVEWAY APRON DETAILS SEE HOWARD COUNTY STANDARD DETAILS R-0.03 AND R-0.05.
  - MAINTENANCE AGREEMENT FOR OPEN SPACE LOTS 25, 26, 27, 28 & USE-14 COMMON DRIVEWAYS WERE RECORDED ON MAY 4, 1992 IN LIBER 2536 AT FOLIO 656 THRU 603.

NO.	DATE	REVISION
1	2-16-93	REVISE HOUSE TYPE LOT 3 CAMPBELL
2	1-19-93	REVISE HOUSE TYPE LOT 2 CAMPBELL
3	11-2-92	REVISED HOUSE TYPE LOTS 2 AND 3



**PLANT LIST**

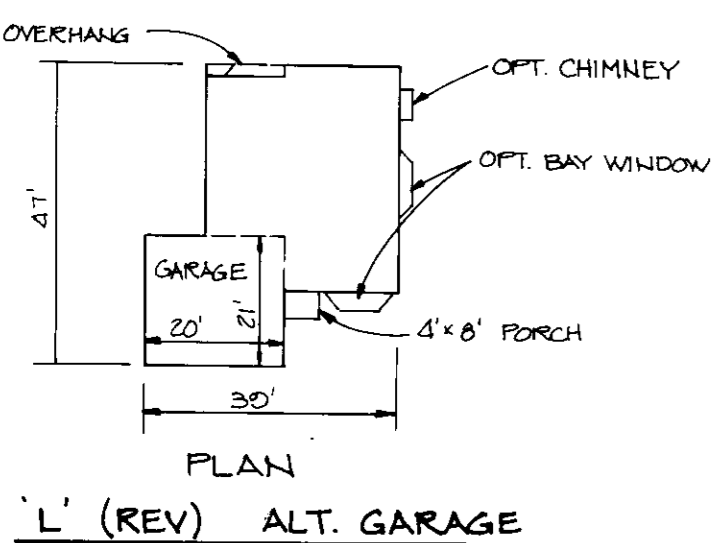
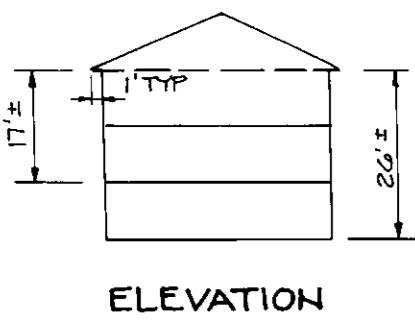
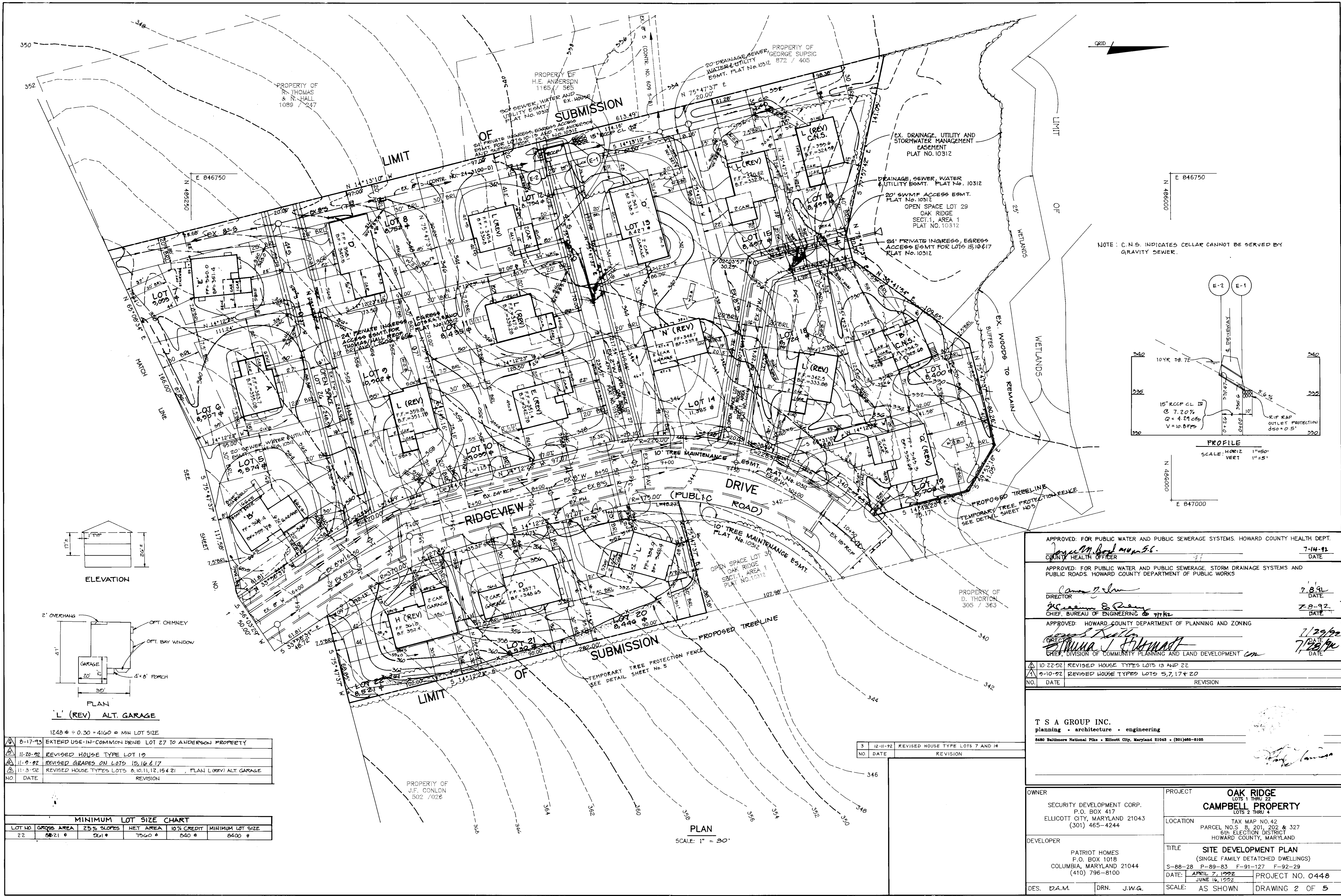
SYMBOL	QUANTITY	NAME	REMARKS
(Symbol)	24	QUERCUS BOREALIS (RUBRA) RED OAK PROPOSED UNDER F-91-127	2.5 MIN CAL B & B Full Head

SUBDIVISION NAME	OAK RIDGE CAMPBELL PROPERTY	SECTION / AREA	1 / 1	LOT NO.S	1-22
PLAT NO.	10310-10312	BLOCK #	16	TAX / ZONE MAP	42
WATER CODE	E-14	SEWER CODE	5200400	ELECT. DIST.	6
				CENSUS TRACT	0001.03

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS. HOWARD COUNTY HEALTH DEPT.	<i>See in Book</i>	2/14/92
COUNTY HEALTH OFFICER		DATE
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	<i>James P. ...</i>	7.8.92
DIRECTOR		DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING	<i>William S. ...</i>	7.8.92
CHIEF, BUREAU OF ENGINEERING		DATE
APPROVED: DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	<i>...</i>	7.29.92
DIRECTOR		DATE
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	<i>...</i>	7/29/92
DATE		
NO.	DATE	REVISION
1	9-10-92	REVISED HOUSE TYPE LOT 4 (CAMPBELL PROP)
2	9-10-92	REVISED HOUSE TYPE LOT 4 (OAK RIDGE)

**T S A GROUP INC.**  
 planning • architecture • engineering  
 8480 Baltimore National Pike • Ellicott City, Maryland 21043 • (901)466-8106

DEVELOPER	SECURITY DEVELOPMENT CORP. P.O. BOX 417 ELLICOTT CITY, MARYLAND 21043 (301) 465-4244	PROJECT	OAK RIDGE LOTS 1 THRU 22 CAMPBELL PROPERTY LOTS 2 THRU 4
BUILDER	PATRIOT HOMES P.O. BOX 1018 COLUMBIA, MARYLAND 21044 (410) 796-8100	LOCATION	TAX MAP NO. 42 PARCEL NOS. 8, 201, 202 & 327 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND
DES.	D.A.M.	DRN.	J.W.G.
TITLE	SITE DEVELOPMENT PLAN (SINGLE FAMILY DETACHED DWELLINGS)	DATE:	APRIL 7, 1992 JUNE 16, 1992
SCALE:	AS SHOWN	PROJECT NO.	0448
			DRAWING 1 OF 5



NO.	DATE	REVISION
1	8-17-93	EXTEND USE-IN-COMMON DRIVE LOT 27 TO ANDERSON PROPERTY
2	11-20-97	REVISED HOUSE TYPE LOT 12
3	11-9-97	REVISED GRADES ON LOTS 15, 16 & 17
4	11-3-97	REVISED HOUSE TYPES LOTS 8, 10, 11, 12, 15 & 21, PLAN L (REV) ALT. GARAGE

MINIMUM LOT SIZE CHART					
LOT NO.	GROSS AREA	2.5% SLOPES	NET AREA	10% CREDIT	MINIMUM LOT SIZE
22	8821 #	261 #	7560 #	640 #	8400 #

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPT. <i>Joyce M. Bond</i> COUNTY HEALTH OFFICER		7-14-92 DATE
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS <i>James E. Ryan</i> DIRECTOR		7-8-92 DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING <i>William J. Holmquist</i> CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT		7/28/92 DATE
10-22-92	REVISED HOUSE TYPES LOTS 13 AND 22	
9-10-92	REVISED HOUSE TYPES LOTS 5, 7, 17 & 20	
NO.	DATE	REVISION

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OWNER SECURITY DEVELOPMENT CORP. P.O. BOX 417 ELLCOTT CITY, MARYLAND 21043 (301) 465-4244	PROJECT <b>OAK RIDGE</b> LOTS 1 THRU 22 <b>CAMPBELL PROPERTY</b> LOTS 2 THRU 4
DEVELOPER PATRIOT HOMES P.O. BOX 1018 COLUMBIA, MARYLAND 21044 (410) 796-8100	LOCATION TAX MAP NO. 42 PARCEL NO.S 8, 201, 202 & 327 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TITLE <b>SITE DEVELOPMENT PLAN</b> (SINGLE FAMILY DETACHED DWELLINGS)	DATE: APRIL 7, 1992 JUNE 16, 1992
DES. D.A.M. DRN. J.W.G.	SCALE: AS SHOWN DRAWING 2 OF 5



SEQUENCE OF CONSTRUCTION

- DAY 1 OBTAIN A GRADING PERMIT.
- DAY 2-8 INSTALL SEDIMENT CONTROL DEVICES.
- DAY 8-30 GRADE SITE AND STABILIZE IN ACCORDANCE WITH PERMANENT SEEDBED NOTES.
- DAY 31-231 COMPLETE CONSTRUCTION ON ALL LOTS.
- DAY 231-241 UPON APPROVAL OF THE SEDIMENT CONTROL INSPECTOR REMOVE ALL REMAINING SEDIMENT CONTROL DEVICES AND STABILIZE IN ACCORDANCE WITH PERMANENT SEEDBED NOTES.

- NOTES: 1) STORMWATER MANAGEMENT FOR THESE LOTS IS PROVIDED UNDER F-91-127.
- 2) DELAY CONSTRUCTION OF THE HOUSE ON LOT 4 UNTIL PERMISSION TO REMOVE SEDIMENT TRAP IS GRANTED BY THE SEDIMENT CONTROL INSPECTOR.

BY THE DEVELOPER:  
"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY 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."

DEVELOPER: \_\_\_\_\_ DATE \_\_\_\_\_

BY THE ENGINEER:  
"I 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."

ENGINEER: John M. Elsbriaga DATE 6/22/92

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

John C. Roberts DATE 6/30/92  
HOWARD S.C.D.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS:

Jean M. Helm DATE 7/1/92  
U.S. SOIL CONSERVATION SERVICE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPT.  
COUNTY HEALTH OFFICER: John Bond DATE 7-1-92

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

James P. Helm DATE 7/8/92  
DIRECTOR

William B. Reed DATE 7-8-92  
CHIEF, BUREAU OF ENGINEERING

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

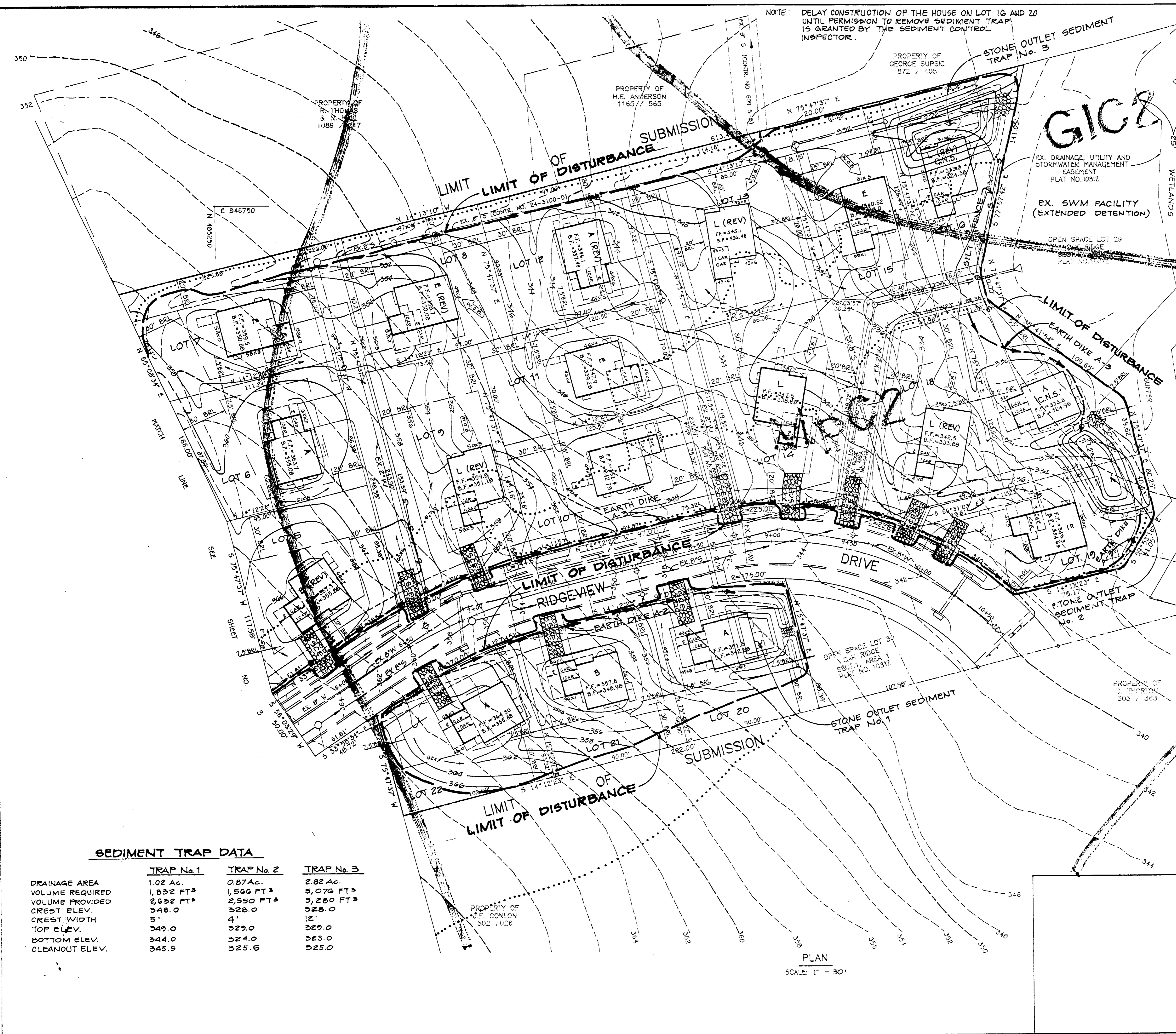
William B. Reed DATE 7/29/92  
DIRECTOR

William B. Reed DATE 7/29/92  
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

NO.	DATE	REVISION

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DEVELOPER SECURITY DEVELOPMENT CORP. P.O. BOX 417 ELLCOTT CITY, MARYLAND 21043 (301) 465-4244	PROJECT OAK RIDGE LOTS 1 THRU 22 CAMPBELL PROPERTY LOTS 2 THRU 4
BUILDER PATRIOT HOMES P.O. BOX 1018 COLUMBIA, MARYLAND 21044 (410) 796-8100	LOCATION TAX MAP NO. 42 PARCEL NOS. B, 201, 202 & 327 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TITLE SEDIMENT CONTROL PLAN AND SOILS MAP (SINGLE FAMILY DETACHED DWELLINGS)	DATE: <u>APRIL 7, 1992</u> PROJECT NO. <u>0448</u>
DES. D.A.M. DRN. J.W.C.	SCALE: AS SHOWN DRAWING 3 OF 5



NOTE: DELAY CONSTRUCTION OF THE HOUSE ON LOT 16 AND 20 UNTIL PERMISSION TO REMOVE SEDIMENT TRAP IS GRANTED BY THE SEDIMENT CONTROL INSPECTOR.

**LEGEND**  
 ..... SEDIMENT CONTROL DRAINAGE DIVIDE  
 S S SILT FENCE  
 ——— EARTH DIKE  
 - - - - - LIMIT OF DISTURBANCE

BY THE DEVELOPER:  
 "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY 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."  
 DEVELOPER: \_\_\_\_\_ DATE: \_\_\_\_\_

BY THE ENGINEER:  
 "I 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."  
 ENGINEER: John M. Elorriaga DATE: 6/30/92

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT  
John P. Roberts DATE: 6/30/92  
 HOWARD S.C.D.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS  
James H. Helm DATE: 7/1/92  
 U.S. SOIL CONSERVATION SERVICE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.  
James Boyd III DATE: 7-14-92  
 COUNTY HEALTH OFFICER

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 \_\_\_\_\_ DATE: \_\_\_\_\_  
 DIRECTOR  
 \_\_\_\_\_ DATE: \_\_\_\_\_  
 CHIEF, BUREAU OF ENGINEERING

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
James M. Helm DATE: 7-20-92  
 DIRECTOR  
John M. Elorriaga DATE: 7-8-92  
 CHIEF, BUREAU OF ENGINEERING

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
James M. Helm DATE: 7/29/92  
 DIRECTOR  
James M. Helm DATE: 7/29/92  
 CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

NO.	DATE	REVISION

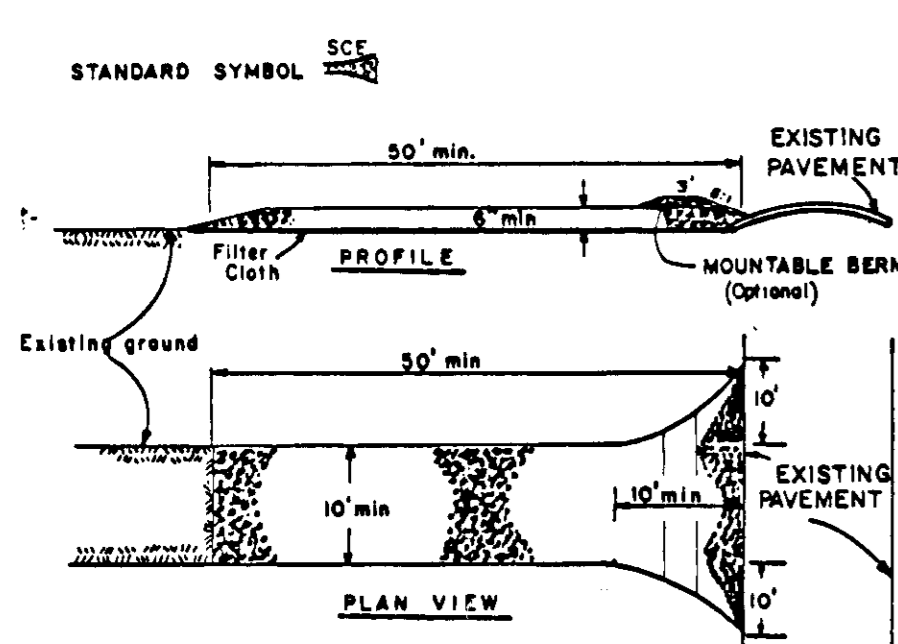
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OWNER SECURITY DEVELOPMENT CORP. P.O. BOX 417 ELLICOTT CITY, MARYLAND 21043 (301) 465-4244	PROJECT OAK RIDGE LOTS 1 THRU 22 CAMPBELL PROPERTY LOTS 2 THRU 4
DEVELOPER PATRIOT HOMES P.O. BOX 1018 COLUMBIA, MARYLAND 21044 (410) 796-8100	TITLE SEDIMENT CONTROL PLAN AND SOILS MAP (SINGLE FAMILY DETACHED DWELLINGS)
DES. D.A.M. DRN. J.W.G.	DATE: APRIL 3, 1992 PROJECT NO. 0448 JUNE 16, 1992
	SCALE: AS SHOWN DRAWING 4 OF 5

**SEDIMENT TRAP DATA**

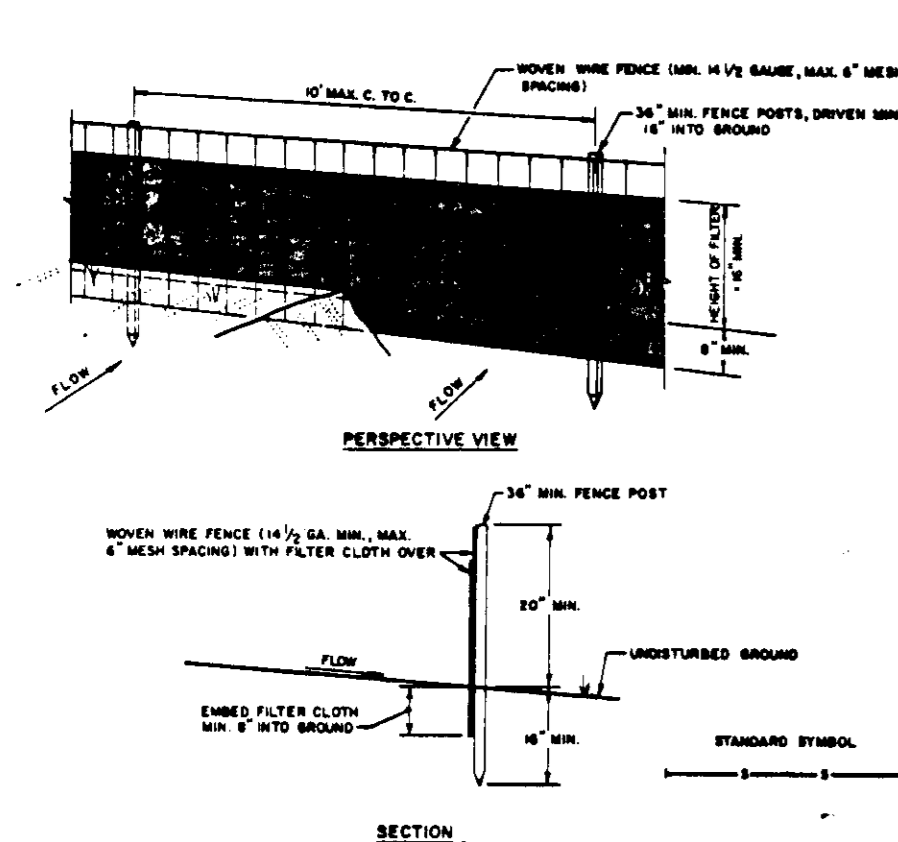
	TRAP No. 1	TRAP No. 2	TRAP No. 3
DRAINAGE AREA	1.02 Ac.	0.87 Ac.	2.82 Ac.
VOLUME REQUIRED	1,832 FT <sup>3</sup>	1,546 FT <sup>3</sup>	5,076 FT <sup>3</sup>
VOLUME PROVIDED	2,032 FT <sup>3</sup>	2,550 FT <sup>3</sup>	5,280 FT <sup>3</sup>
CREST ELEV.	348.0	328.0	328.0
CREST WIDTH	5'	4'	12'
TOP ELEV.	349.0	329.0	329.0
BOTTOM ELEV.	344.0	324.0	323.0
CLEANOUT ELEV.	345.5	325.5	325.0

PLAN  
 SCALE: 1" = 30'



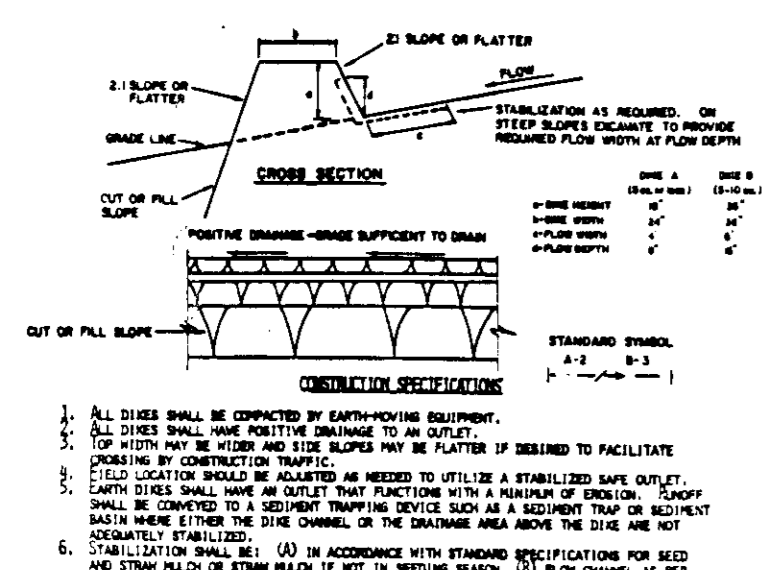
- CONSTRUCTION SPECIFICATIONS**
- Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
  - Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
  - Thickness - Not less than six (6) inches.
  - Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
  - 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.
  - Surface Water - All surface water flowing or diverted toward entrance shall be piped across the entrance. If piping is impracticable, a mountable berm with 5:1 slopes will be provided.
  - 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 cleanout of any measures used to trap sediment. Sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
  - Washing - Wheels shall be cleaned to remove sediment prior to entry onto public rights-of-way. When washing is required, it shall be done in an area stabilized with stone and which drains into an approved sediment trapping device.
  - Periodic inspection and needed maintenance shall be provided after each rain.

**STABILIZED CONSTRUCTION ENTRANCE**  
NO SCALE



- CONSTRUCTION NOTES FOR FABRICATED SILT FENCE**
- 10' WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
  - FILTER CLOTH TO BE FASTENED SECURELY TO WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
  - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
  - MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN NEEDED TO KEEP IN THE SILT FENCE.
- POSTS:** STEEL EITHER T OR U
- FENCE:** WOVEN WIRE, 34" GAL. 10' MAX. FEET OPENING
- FILTER CLOTH:** FILTER X FINISH 10' STABILIZATION TYPICAL OR APPROVED
- PREPARED UNIT:** GEOTEX, IMPROVED, OR APPROVED

**SILT FENCE**  
NO SCALE



- CONSTRUCTION SPECIFICATIONS**
- All dikes shall be constructed by earth-retention equipment.
  - All dikes shall have a minimum length of 50 feet.
  - Location of dikes shall be determined by a geotechnical engineer or other qualified person.
  - Earth dikes shall have a minimum height of 2 feet above the ground surface.
  - Dikes shall be constructed with a minimum of 2 feet of compacted fill above the dike crown.
  - Dikes shall be constructed with a minimum of 5:1 slope on the down-drain side.
  - Dikes shall be constructed with a minimum of 2 feet of compacted fill above the dike crown.
  - Dikes shall be constructed with a minimum of 5:1 slope on the down-drain side.
  - Dikes shall be constructed with a minimum of 2 feet of compacted fill above the dike crown.
  - Dikes shall be constructed with a minimum of 5:1 slope on the down-drain side.

**EARTH DIKE**  
NO SCALE

- SEDIMENT CONTROL NOTES**
- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (1992-2437).
  - 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.
  - FOLLOWING INITIAL SOIL DISTURBANCE OR RESTORATION, 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 PERIMETER 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. 517) SOIL (Sec. 547), TEMPORARY SEEDING (Sec. 501) AND MULCHING (Sec. 521). 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: 5.4 ACRES  
AREA TO BE ROOFED OR PAVED: 1.3 ACRES  
AREA TO BE VEGETATIVELY STABILIZED: 4.1 ACRES  
TOTAL CUT: 12,000 CU.YDS.  
TOTAL FILL: 12,000 CU.YDS.  
OFFSITE WASTE/BORROW AREA LOCATION: N/A
  - 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 CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY DPW SEDIMENT CONTROL INSPECTOR.
  - ALL SEDIMENT TRAPS 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.

**PERMANENT SEEDBED PREPARATION**

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 (92 105/1000 sq ft) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 105/1000 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 UREA-FORM FERTILIZER (9 105/1000 sq ft).
  - 2) ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 105/1000 sq ft) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 105/1000 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 80 LBS PER ACRE (1.4 105/1000 sq ft) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 80 LBS OF KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (.05 105/1000 sq ft) OF KEEPING 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 SOU. OPTION (3) SEED WITH 80 LBS PER ACRE OF KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS PER ACRE OF WELL ANCHORED STRAW.
- MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 105/1000 sq ft) OF UNKNOTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 210 GALLONS PER ACRE (5 90/1000 sq ft) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES OF FEET OR HIGHER, USE 340 GALLONS PER ACRE (8 90/1000 sq ft) FOR ANCHORING.
- MAINTENANCE: INSPECT ALL SEEDBED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

**TEMPORARY SEEDBED PREPARATION**

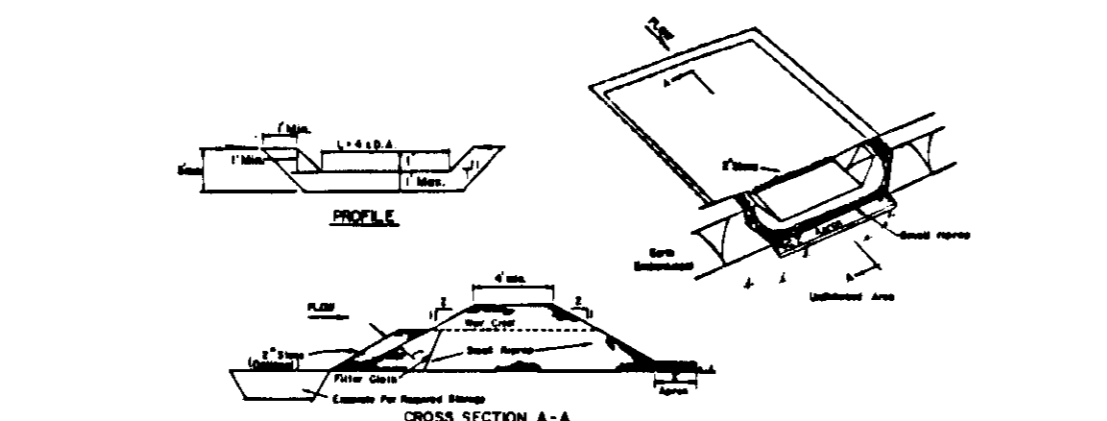
APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: APPLY 300 LBS PER ACRE 10-10-10 FERTILIZER (14 105/1000 sq ft).

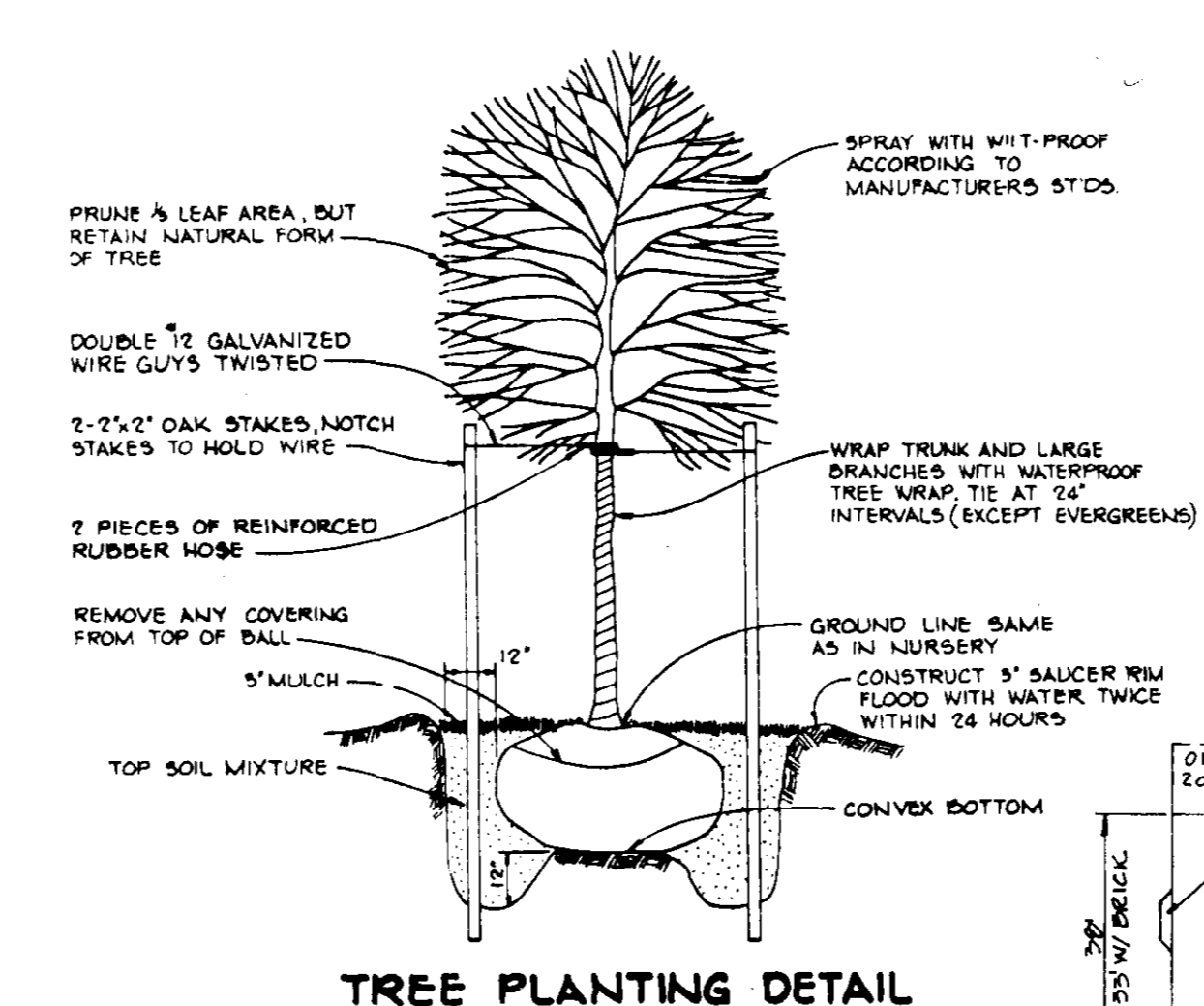
- SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 1 THRU NOVEMBER 15, SEED WITH 2-1/2 BUSHELS PER ACRE OF ANNUAL RYE (13.2 105/1000 sq ft). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF KEEPING LOVEGRASS (.07 105/1000 sq ft). FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOU.
- MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 105/1000 sq ft) OF UNKNOTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 210 GALLONS PER ACRE (5 90/1000 sq ft) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES OF FEET OR HIGHER, USE 340 GALLONS PER ACRE (8 90/1000 sq ft) FOR ANCHORING.
- REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

**CONSTRUCTION SPECIFICATIONS FOR SILT FENCE**

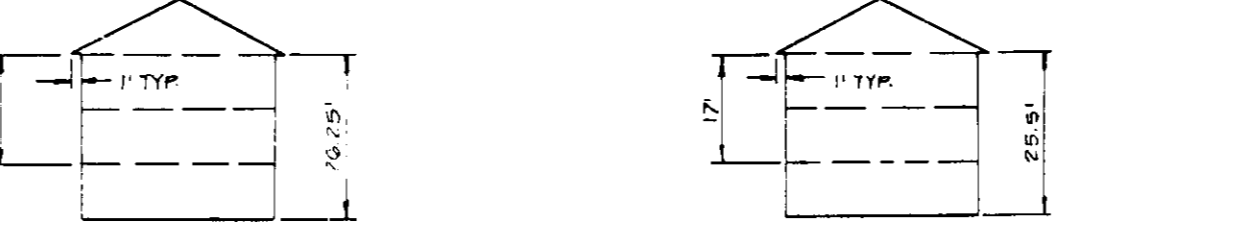


- CONSTRUCTION SPECIFICATIONS FOR SILT FENCE**
1. All dikes shall be constructed by earth-retention equipment.
  2. All dikes shall have a minimum length of 50 feet.
  3. Location of dikes shall be determined by a geotechnical engineer or other qualified person.
  4. Earth dikes shall have a minimum height of 2 feet above the ground surface.
  5. Dikes shall be constructed with a minimum of 2 feet of compacted fill above the dike crown.
  6. Dikes shall be constructed with a minimum of 5:1 slope on the down-drain side.
  7. Dikes shall be constructed with a minimum of 2 feet of compacted fill above the dike crown.
  8. Dikes shall be constructed with a minimum of 5:1 slope on the down-drain side.
  9. Dikes shall be constructed with a minimum of 2 feet of compacted fill above the dike crown.
  10. Dikes shall be constructed with a minimum of 5:1 slope on the down-drain side.

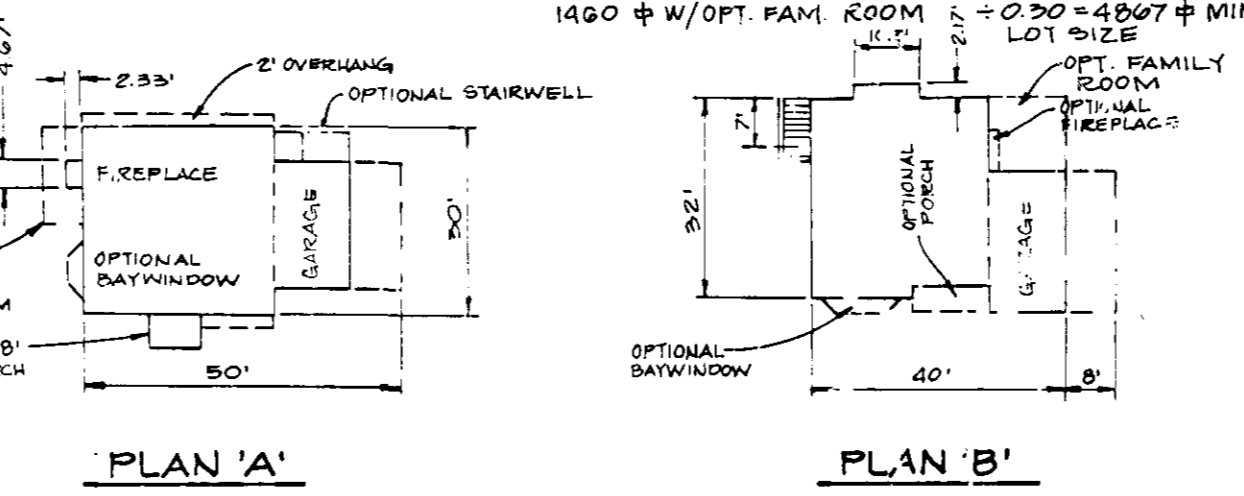
**STONE OUTLET SEDIMENT TRAP**  
NO SCALE



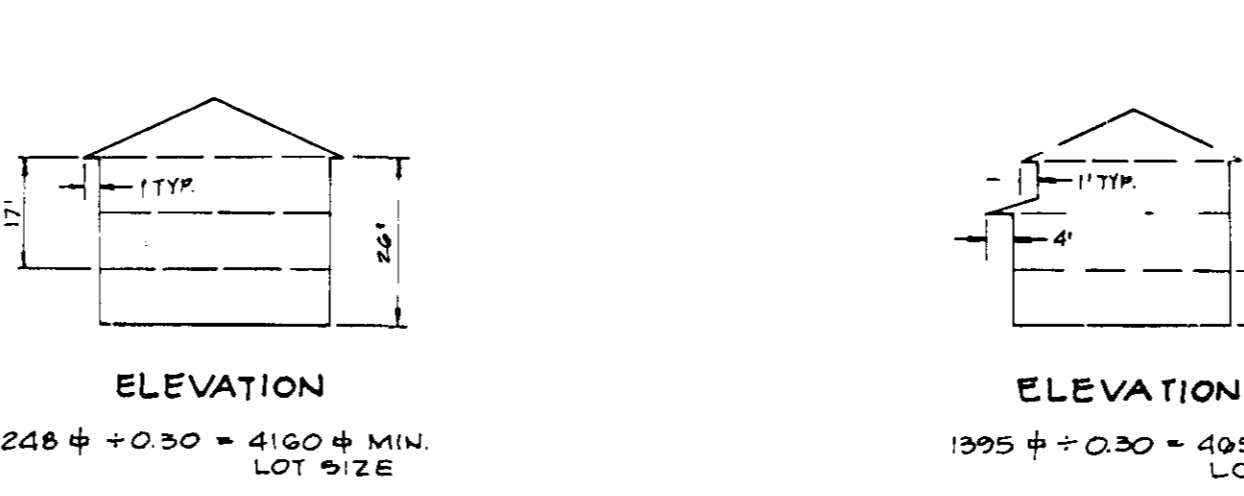
**TREE PLANTING DETAIL**  
NO SCALE



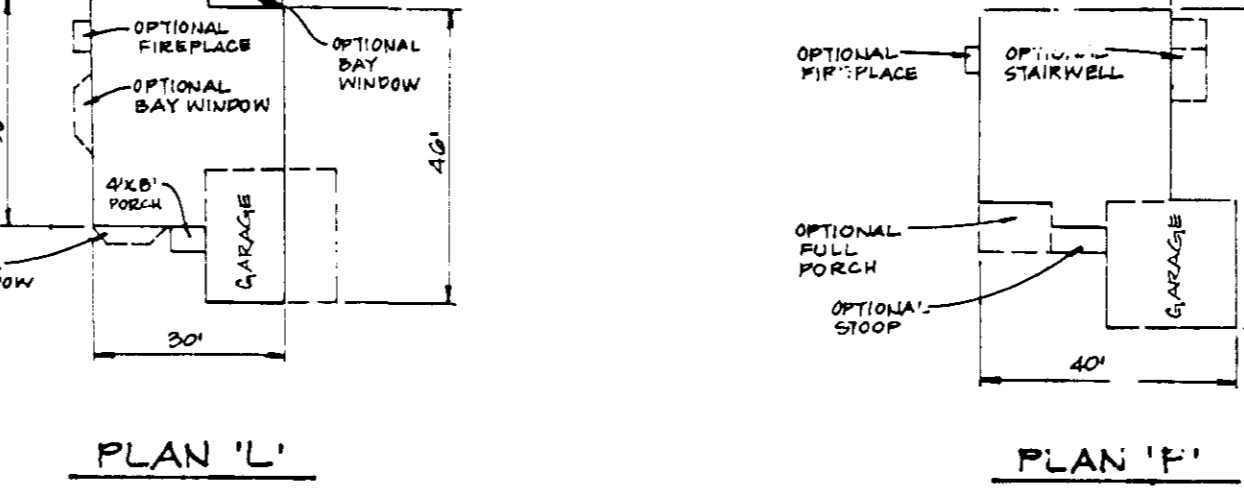
**ELEVATION**  
1456 sq ft ± 0.30 = 4253 sq ft MIN. LOT SIZE



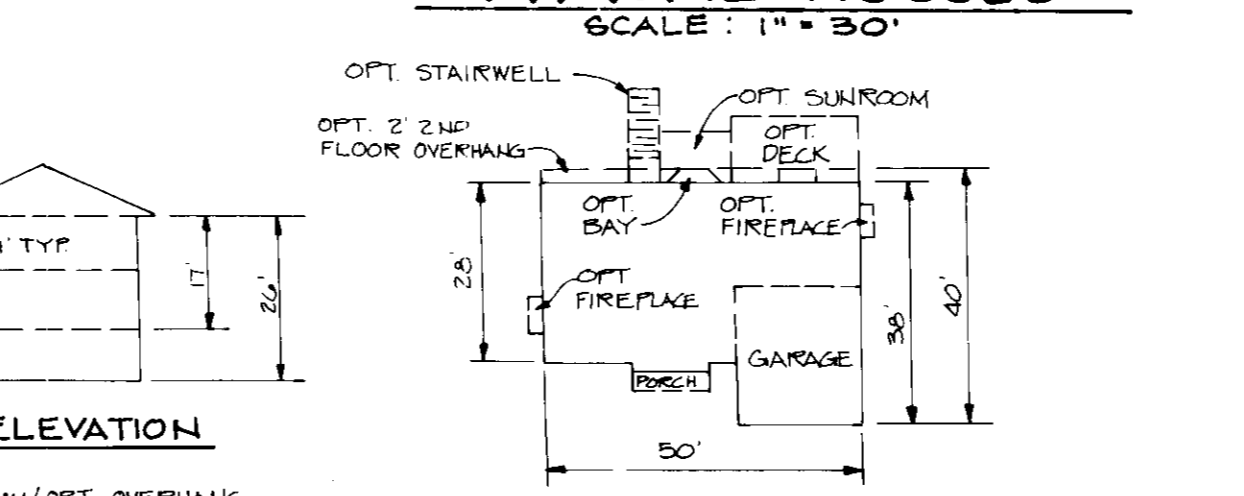
**ELEVATION**  
1310 sq ft ± 0.30 = 4287 sq ft MIN. LOT SIZE



**ELEVATION**  
1307 sq ft ± 0.30 = 4333 sq ft MIN. LOT SIZE



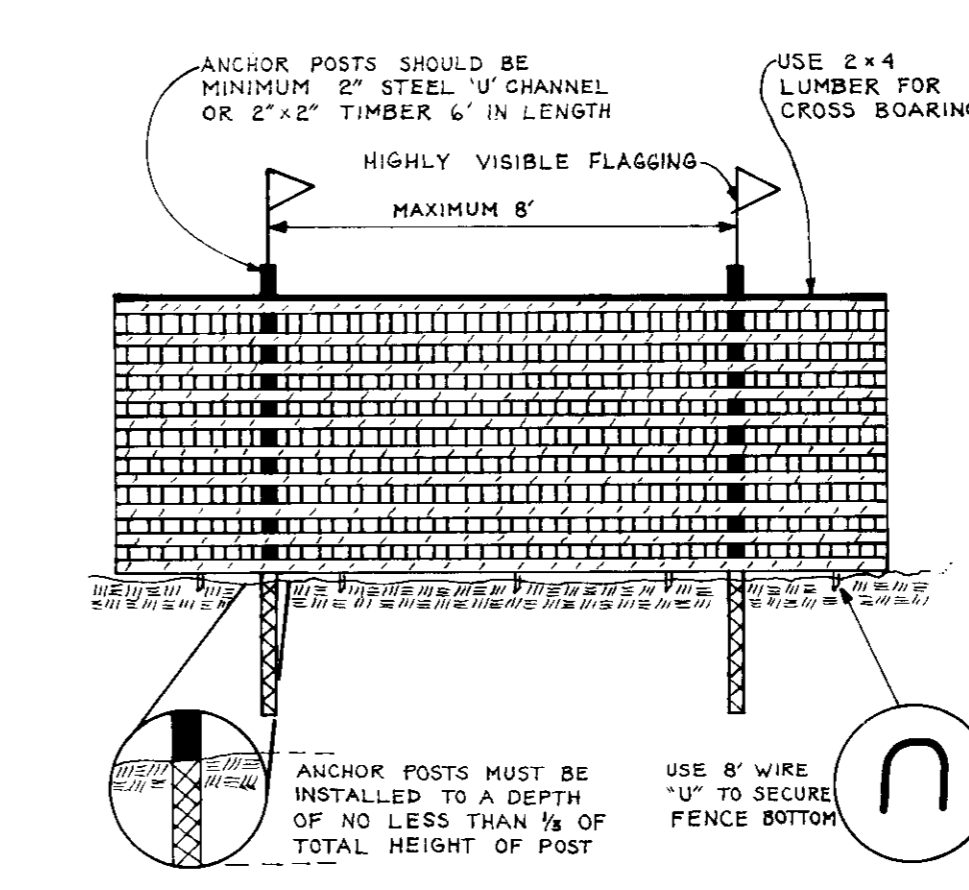
**ELEVATION**  
1248 sq ft ± 0.30 = 4100 sq ft MIN. LOT SIZE



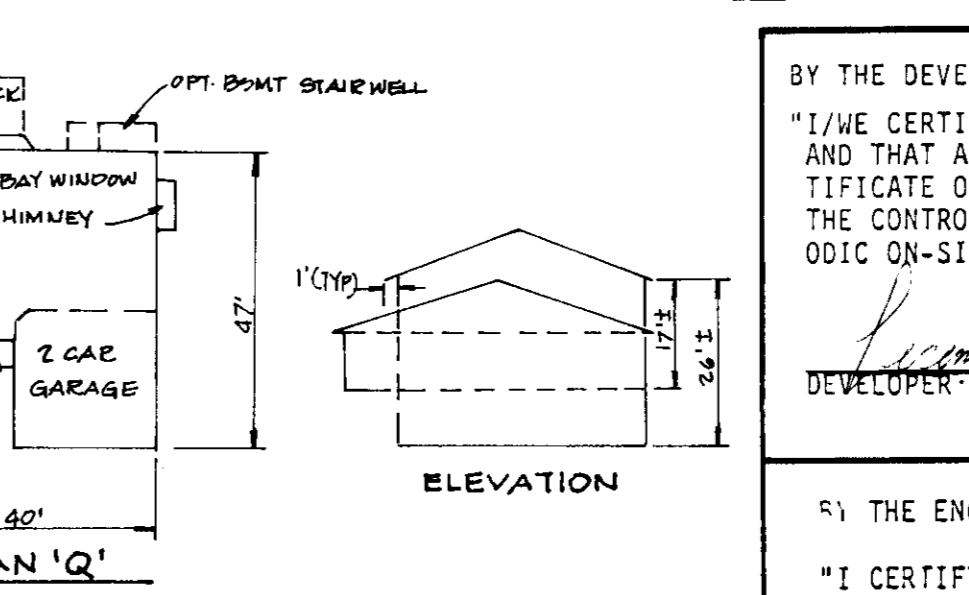
**ELEVATION**  
1395 sq ft ± 0.30 = 4050 sq ft MIN. LOT SIZE



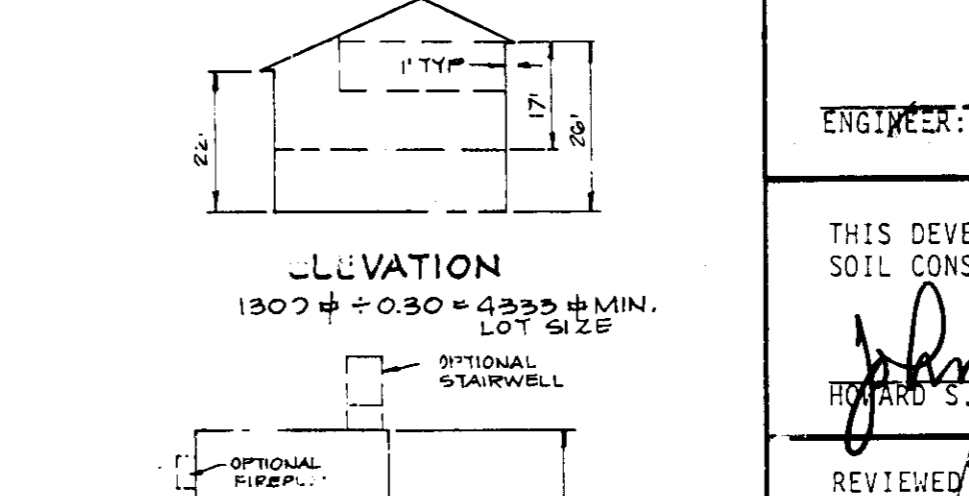
**ELEVATION**  
1400 sq ft ± 0.30 = 4067 sq ft MIN. LOT SIZE



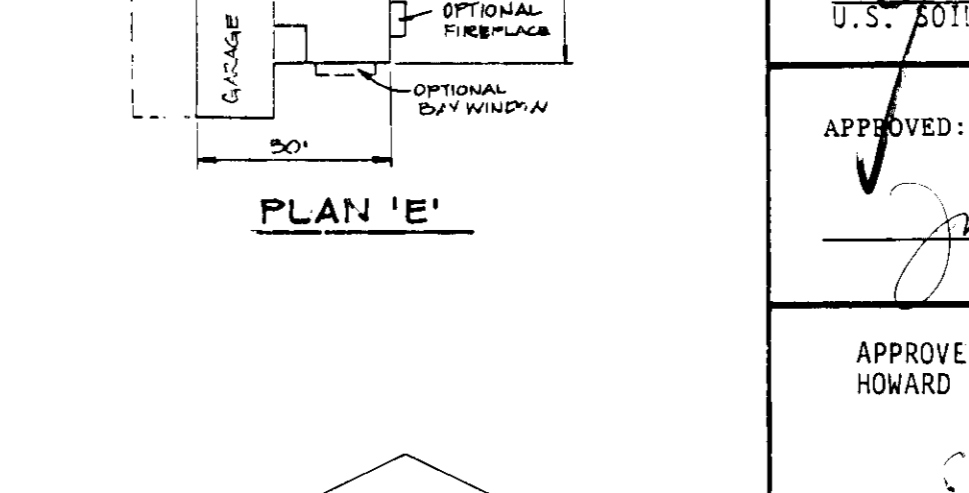
**BLAZE ORANGE PLASTIC MESH TREE PROTECTION FENCE**



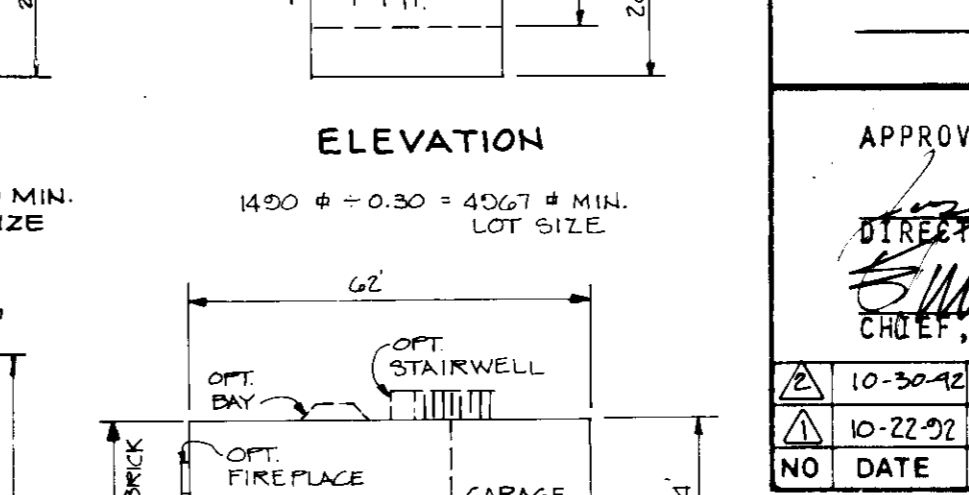
**ELEVATION**  
1670 sq ft ± 0.30 = 5567 sq ft MIN. LOT SIZE



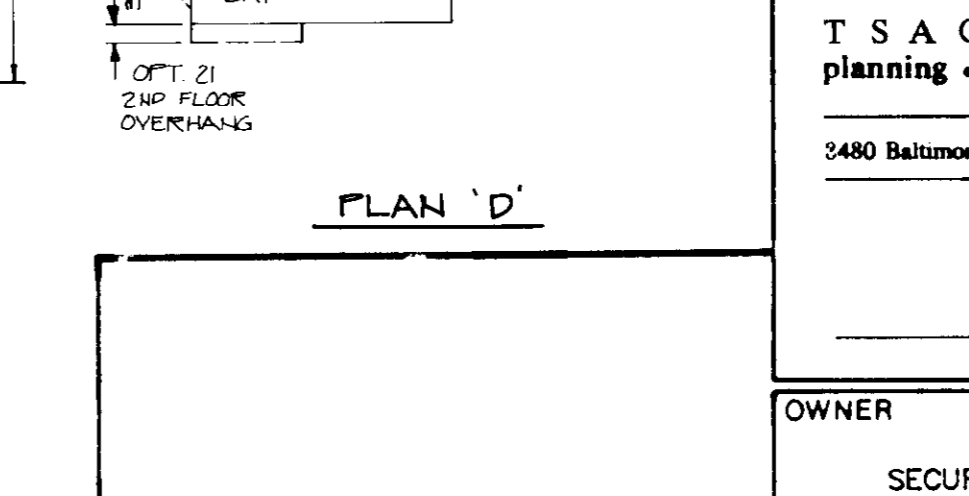
**ELEVATION**  
1100 sq ft w/ OPT. OVERHANG ± 0.30 = 5067 sq ft MIN. LOT SIZE



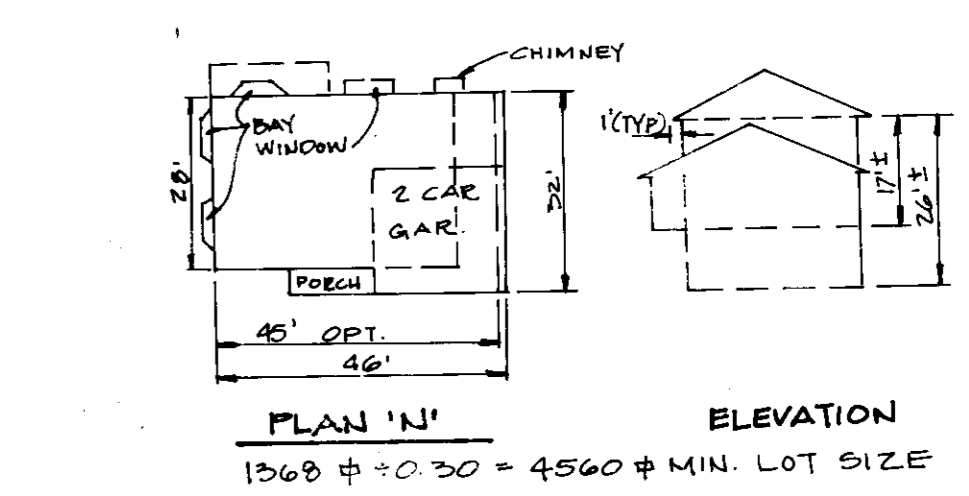
**ELEVATION**  
1426 sq ft ± 0.30 = 4100 sq ft MIN. LOT SIZE



**ELEVATION**  
1395 sq ft ± 0.30 = 4050 sq ft MIN. LOT SIZE



**ELEVATION**  
1400 sq ft ± 0.30 = 4067 sq ft MIN. LOT SIZE



**ELEVATION**  
1368 sq ft ± 0.30 = 4560 sq ft MIN. LOT SIZE

BY THE DEVELOPER:  
"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY 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."  
*John M. Elorriaga*  
DEVELOPER  
6/29/92 DATE

BY THE ENGINEER:  
"I 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."  
*John M. Elorriaga*  
ENGINEER: JOHN M. ELORRIAGA  
6/29/92 DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT  
*John M. Elorriaga*  
HOWARD S.C.D. 6/29/92 DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS  
*John M. Elorriaga*  
U.S. SOIL CONSERVATION SERVICE 7/1/92 DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.  
*John M. Elorriaga*  
COUNTY HEALTH OFFICER 7-14-92 DATE

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*John M. Elorriaga*  
DIRECTOR 7-8-92 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
*John M. Elorriaga*  
DIRECTOR 7/29/92 DATE

NO	DATE	REVISION
10-30-92		ADDED HOUSE TYPE PLAN 'Q' AND 'N'
10-22-92		ADDED HOUSE TYPE PLAN 'D' AND 'H'

<b>T S A GROUP INC.</b> planning • architecture • engineering 3480 Baltimore National Pike • Ellicott City, Maryland 21043 • (301) 465-6105		<b>OAK RIDGE</b> LOTS 1 THRU 22 <b>CAMPBELL PROPERTY</b> LOTS 2 THRU 4	
<b>OWNER</b> SECURITY DEVELOPMENT CORP. P.O. BOX 417 ELLCOTT CITY, MARYLAND 21043 (301) 465-4244		<b>LOCATION</b> TAX MAP NO. 42 PARCEL NOS. 8, 201, 202 & 327 8th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
<b>DEVELOPER</b> PATRIOT HOMES P.O. BOX 1018 COLUMBIA, MARYLAND 21044 (410) 796-8100		<b>TITLE</b> (SINGLE FAMILY DETACHED DWELLINGS)	
<b>DES. D.A.M.</b>	<b>DRN. J.W.G.</b>	<b>DATE</b> APRIL 7, 1992 JUNE 16, 1992	<b>PROJECT NO.</b> O448
<b>SCALE</b> AS SHOWN		<b>DRAWING</b> 5 OF 5	