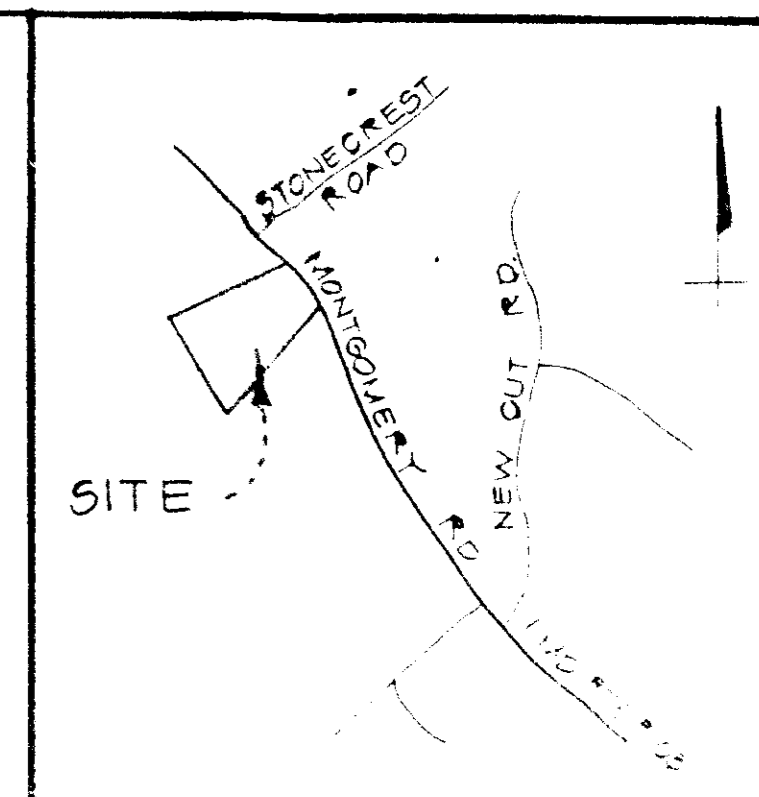


BRAMPTON HILLS (SECT. 2)  
 PLAT 5561  
 ZONED R-20



VICINITY MAP  
 SCALE: 1" = 200'

GENERAL NOTES

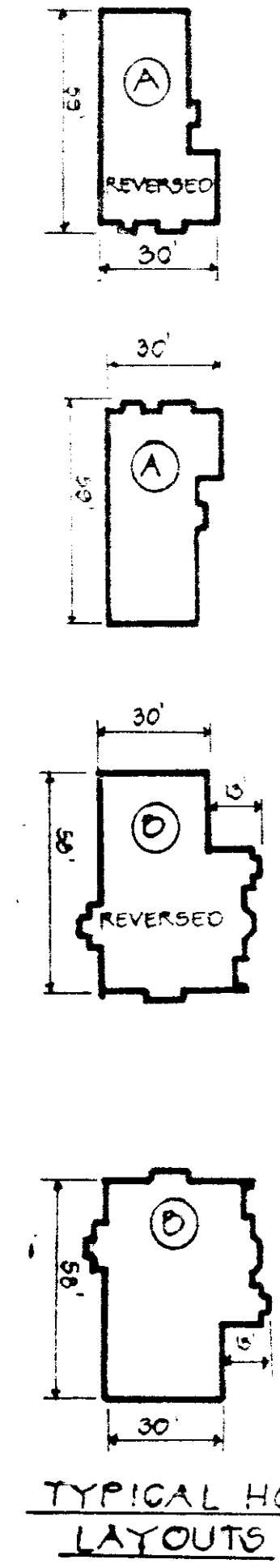
- Area of Parcel: 11,400,496,584 SQ FT
- Open Space to remain on site: 6,400,000 SQ FT
- Present zoning is: R-20
- Minimum Setbacks:  
 Front: 50' (lots 20,000 SF)  
 Side: 30' (From Public R.W.)  
 Rear: 30'
- Typical house dimensions, schematic profile, details, sediment control notes and specifications can be found on sheets 1 or 44404
- Site Analysis: (1 existing unit)  
 A. Total number of lots: 22 (19 proposed units)  
 B. Total area of lots: 374,616 SQ FT (R-20)  
 C. Street trees will be provided under F-87-215 by the Developer.
- The Contractor or the Developer shall contact the Construction Inspection Division, 24 hours in advance of commencement of work at 792-7630.
- All vegetative and structural practices installed according to the provisions of this plan are to be in conformance with the Maryland Standards and Specifications for Soil Erosion and Sediment Control 1983.
- The Contractor or Developer shall contact the Construction Inspection Division 24 hours in advance of commencement of work at 792-7630.
- No structures are to be constructed on open space lots 21 & 22 at a distance less than Howard County Regulations require.
- There is an existing structure on lot 10. No new buildings, extensions or additions to the existing building is to be constructed at a distance less than the Howard County Zoning Regulations allow.
- All structures shown on lots 6, 7 & 8 are to conform to the building setback lines as required in Section 106 of the Howard County Zoning Regulations, any existing structures which do not meet the required setback are to be removed.
- For all pipetown lots; refuse collection, snow removal and road maintenance is provided to the junction of the pipetown and road right-of-way line and not to the flag or pipetown lot driveway.

8-4-88

BENCH MARK  
 RR SPIKE EDGE OF  
 ROAD - EL. 488.62

(MO RTE # 103)  
 150' R/W

MONTGOMERY ROAD  
 250' FULL WIDTH SECTION  
 150' TAPER



BRAMPTON HILLS (SECT. 2)  
 PLAT 5560  
 ZONED R-20

ENGINEER'S CERTIFICATE  
 I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL, RETENTION & DISPOSAL AND THE ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT, WILL HAVE A CERTIFICATE OF ATTENDING AS A REPRESENTATIVE OF A QUALIFIED ENGINEER APPROVED THROUGH PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT BEFORE BEGINNING THE PROJECT. ALL AUTHORIZED PERSONNEL SHALL BE INSPECTED BY THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS THROUGH AGENTS, AS AND RELATED THEREBY.

REQUIREMENTS CERTIFICATE  
 I HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN OF EROSION AND SEDIMENT CONTROL, AND THE ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT, WILL HAVE A CERTIFICATE OF ATTENDING AS A REPRESENTATIVE OF A QUALIFIED ENGINEER APPROVED THROUGH PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT BEFORE BEGINNING THE PROJECT. ALL AUTHORIZED PERSONNEL SHALL BE INSPECTED BY THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS THROUGH AGENTS, AS AND RELATED THEREBY.

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS - HOWARD CO. HEALTH DEPARTMENT  
 COUNTY HEALTH OFFICER  
 APPROVED: HOWARD CO. OFFICE OF PLANNING/ZONING  
 DIRECTOR

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

DATE: 10-24-88  
 DATE: 10-27-88  
 DATE: 11-20-88

SOIL CLASSIFICATIONS

G1R2	
G1C2	Glennelz Loam
G1D2	
LgG3	Legore Silty Clay Loam
M1D2	Manor Loam
NeB2	Neshaminy Silt Loam
NeC2	
WaB	Watchung Silt Loam

ADDRESS CHART

LOT NO.	STREET ADDRESS
1	4610 Chatsworth Way
2	4608 Chatsworth Way
3	4607 Chatsworth Way
4	4611 Chatsworth Way
5	4615 Chatsworth Way
6	4619 Chatsworth Way
7	4623 Chatsworth Way
8	4627 Chatsworth Way
9	4631 Chatsworth Way
10	4635 Chatsworth Way
11	4639 Chatsworth Way
12	4642 Chatsworth Way
13	4638 Chatsworth Way
14	4634 Chatsworth Way
15	4630 Chatsworth Way
16	4626 Chatsworth Way
17	4622 Chatsworth Way
18	4618 Chatsworth Way
19	4626 Chatsworth Way
20	4602 Chatsworth Way

SKETCH PLAN # S-87-015 PRELIM PLAN # P-87-017  
 FINAL PLAN # F-87-215 RECORD # 7942

SUBDIVISION NAME	SECT./AREA	LOT/PARCEL #
MANORS OF OAKWOOD	Sec. 1	LOTS 1-20
PLAT # OR LOT BLOCK #	ZONE	TAX/ZONE MAP
7942	R-20	31
		2
		6023.02

WATER CODE: 602  
 SEWER CODE: 5750630

HERITAGE HOMES in OAKWOOD LIMITED PARTNERSHIP  
 8950 RT. 108 SUITE 210, GORMAN PLAZA  
 COLUMBIA, MARYLAND 21045

**ATLANTIC ENGINEERING CORPORATION**  
 CIVIL ENGINEERS · SURVEYORS · PLANNERS  
 198 PENNSYLVANIA AVE.  
 WESTMINSTER, MARYLAND 21157  
 TELEPHONE: (301) 876-1288

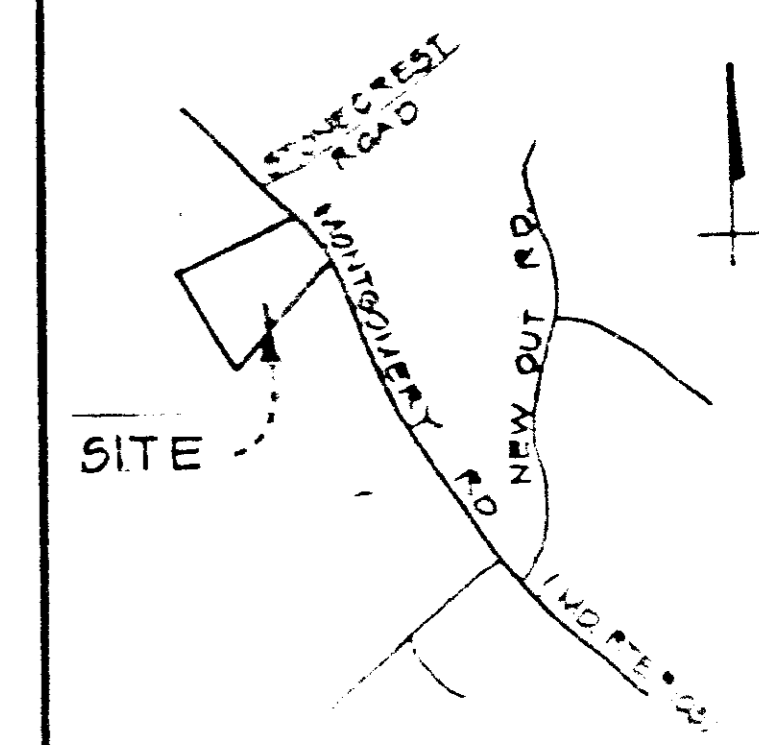
SITE DEVELOPMENT PLAN

MANORS OF OAKWOOD  
 SECTION 1  
 LOT, HOUSE UTILITY LAYOUT/  
 SITE GRADING LISTS  
 THRU 21

TAX MAP 31 PARCEL 563  
 2ND ELECTION DIST. HOWARD COUNTY, MD  
 SCALE 1" = 40' MARCH, 1988  
 SHEET 1 OF 5



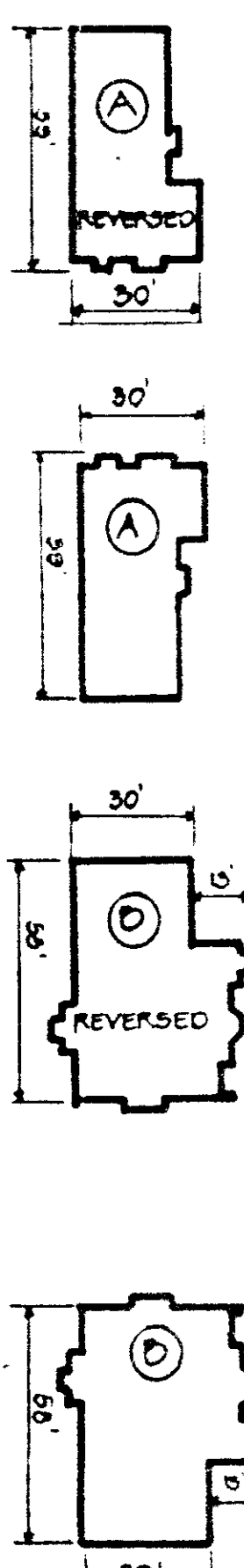
DRAMPTON HILLS (SECT. 2)  
 FLAT 5561  
 ZONED R-20



8-4-88  
 7

DENCH MARK  
 R.R. SPIKE EDGE OF  
 ROAD - EL. 458.62

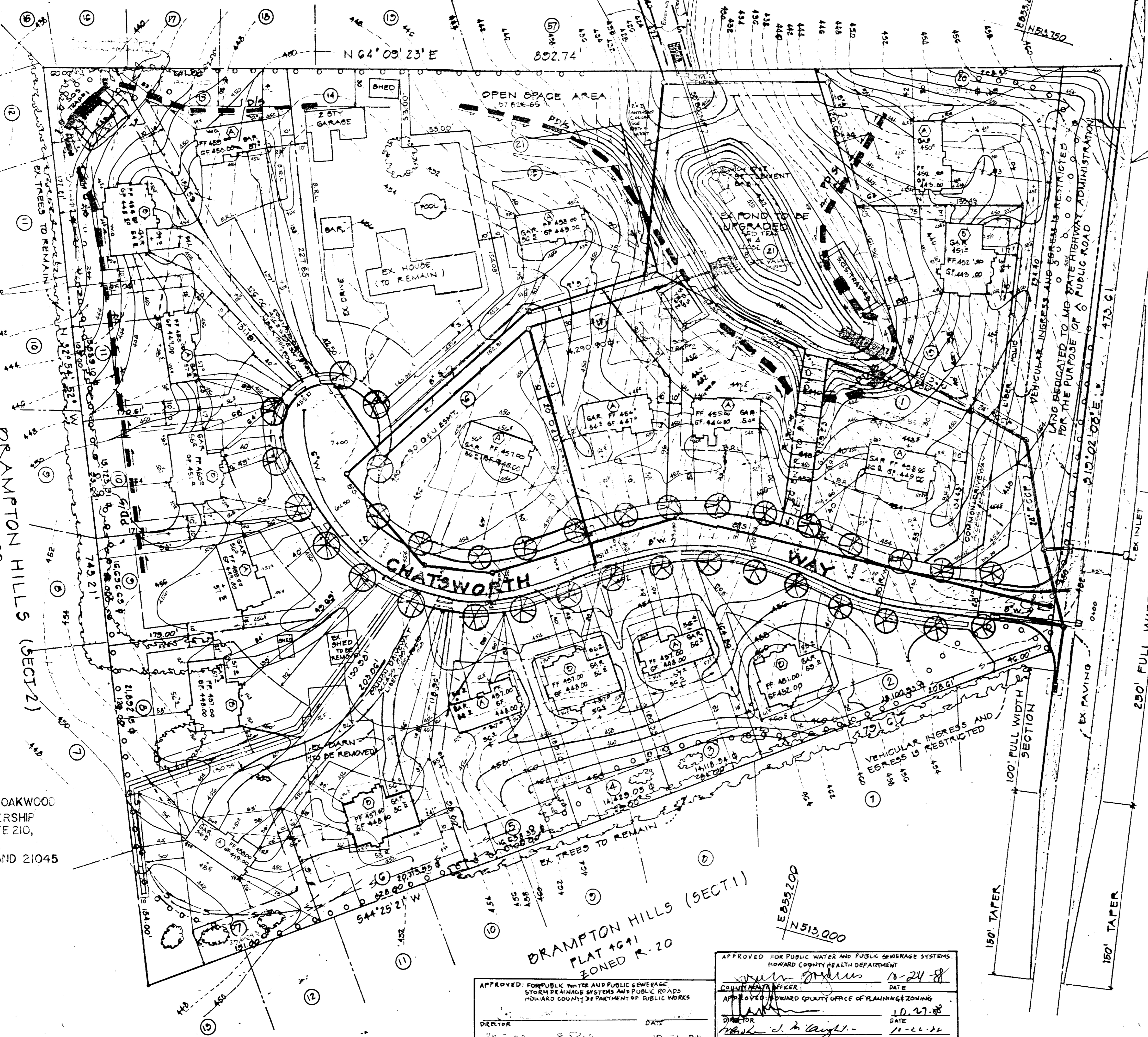
VICINITY MAP  
 SCALE: 1" = 2000'



TYPICAL HOUSE LAYOUTS

HERITAGE HOMES in OAKWOOD  
 LIMITED PARTNERSHIP  
 8950 RT. 103 SUITE 210,  
 GORMAN PLAZA  
 COLUMBIA, MARYLAND 21045

DRAMPTON HILLS (SECT. 2)  
 FLAT 5560  
 ZONED R-20



MONTGOMERY ROAD (MO RTE. # 103)  
 150' TAPER  
 100' FULL WIDTH SECTION  
 250' FULL WIDTH SECTION  
 EX. PAVING  
 EX. INLET

By the Developer:  
 "I do certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources Approved Training Program for the Control of Erosion and Sedimentation before beginning the project. I will provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District."  
 Signature of Developer: *John W. Kowen* Date: 8/18/88

By the Engineer:  
 "I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he must provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion."  
 Signature of Engineer: *Richard W. Russell* Date: 8/18/88

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for small pond construction, soil erosion and sediment control.  
 Signature: *John W. Kowen* Date: 8/24/88  
 U.S. Soil Conservation Service

These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.

LEDGEND

— S — S	SILT FENCE
=====	PERIMETER DIKE SWALE
o o o o o	LIMITS OF DISTURBANCES

**ATLANTIC ENGINEERING CORPORATION**  
 CIVIL ENGINEERS • SURVEYORS • PLANNERS  
 198 PENNSYLVANIA AVE.  
 WESTMINSTER, MARYLAND  
 21157  
 TELEPHONE: (301) 876-1298

SITE DEVELOPMENT PLAN  
 SEDIMENT CONTROL PLAN  
**MANORS OF OAKWOOD**  
 SECTION 1  
 SEDIMENT CONTROL SHEET  
 LOTS 1 THRU 21  
 TAX MAP 31 PARCEL 563  
 2ND ELECTION DIST. HOWARD COUNTY, MD  
 SCALE 1" = 40' MARCH, 1988  
 S-EET 2 OF 5

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

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

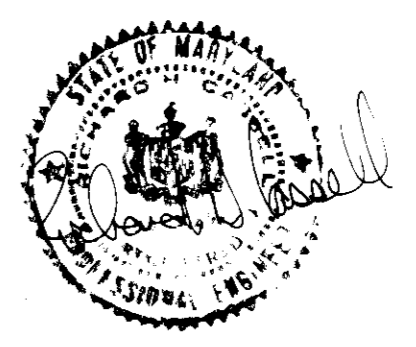
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT

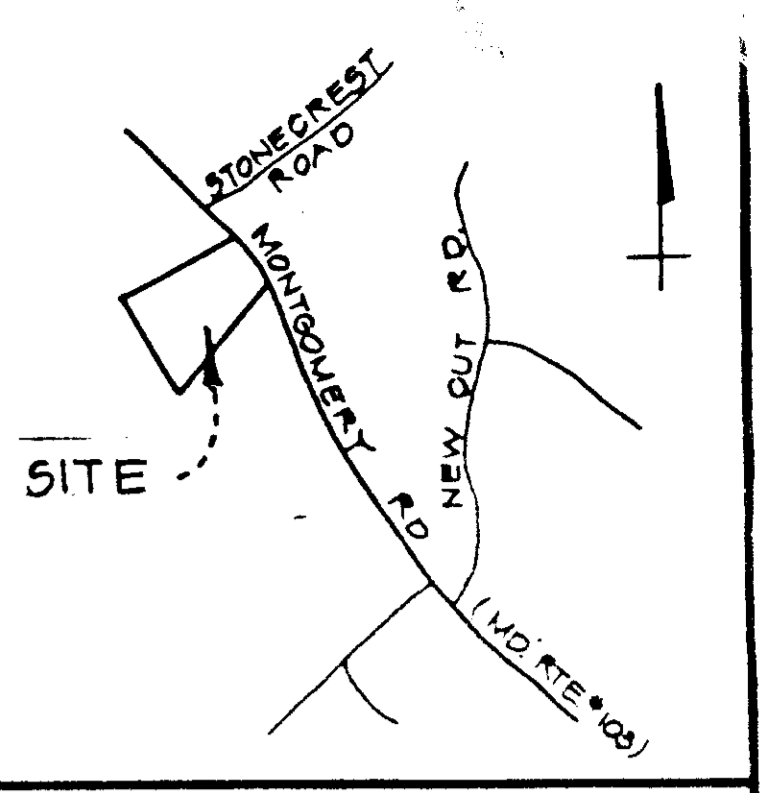
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

DRAMPTON HILLS (SECT. 1)  
 FLAT 4641  
 ZONED R-20





BRAMPTON HILLS (SECT. 2)  
 PLAT 5561  
 ZONED R-20



VICINITY MAP

SCALE: 1" = 2,000'

- SOIL CLASSIFICATIONS
- GIB2 - GLENELG LOAM
  - GIC2 - GLENELG LOAM
  - GID2 - GLENELG LOAM
  - LgC3 - LEGORE SILTY CLAY LOAM
  - MID2 - MANOR LOAM
  - NeB2 - NESHAMINY SILT LOAM
  - NeC2 - NESHAMINY SILT LOAM
  - WaB - WATCHUNG SILT LOAM

- STREET TREES
- Pin Oak (Quercus palustris) 18' 2.5"
  - Red Maple (Acer rudnum) 17' 2.5"

STEEP SLOPE & PIPESTEM LOT CHART

Lot #	Total Deeded Area	Pipestem Area	Steep Slope Area	Adjusted Lot Area
1-7	15,703.59	N/A	16,925.00	14,009.59
8	23,610.43	2,562.76	N/A	21,047.67
9	18,047.49	1,991.32	N/A	16,056.17
10	18,467.71	2,310.86	1410.10	14,146.75
11	17,327.18	N/A	2,802.00	14,525.18
12	20,121.80	18,552.00	3,676.00	14,891.80
13	21,044.12	4,308.98	750.00	20,085.14
14	57,826.65	2,714.25	4,463.32	45,749.23

(N/A = NOT APPLICABLE)  
 (N/A AREA = N/A)  
 (S.W.M. = STORM WATER MANAGEMENT)

AREAS OF 25% OR GREATER SLOPES

HERITAGE HOMES in OAKWOOD LIMITED PARTNERSHIP  
 8950 RT.108 SUITE 210, GORMAN PLAZA  
 COLUMBIA, MARYLAND 21045

SKETCH PLAN NO. S-87-05  
 PRELIMINARY PLAN NO. P-87-37  
 FINAL PLAN NO. F-87-215  
 RECORDED NO. 7242

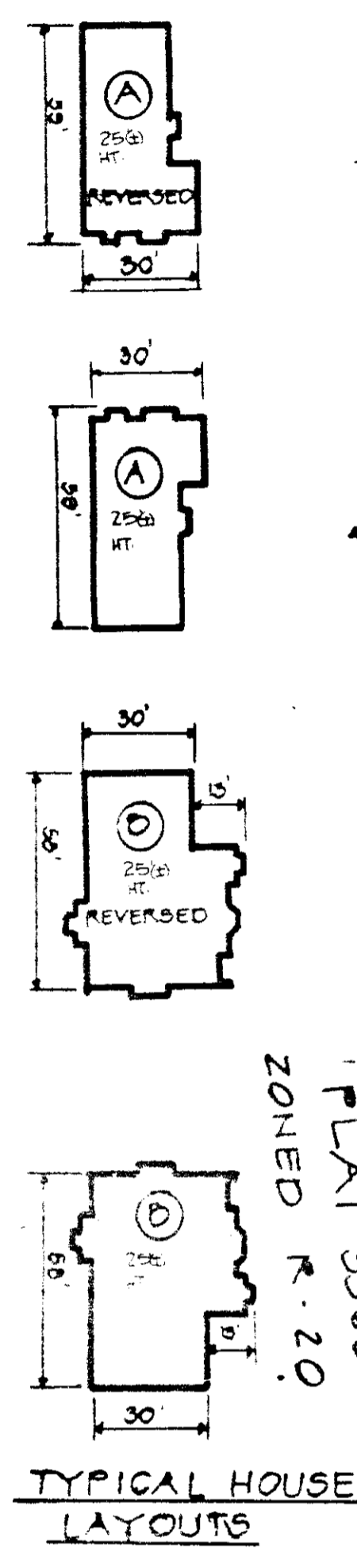
ATLANTIC ENGINEERING CORPORATION

CIVIL ENGINEERS - SURVEYORS - PLANNERS  
 198 PENNSYLVANIA AVE.  
 WESTMINSTER, MARYLAND 21157  
 TELEPHONE: (301) 876-1288

SITE DEVELOPMENT PLAN

MANORS OF OAKWOOD

SECTION 1  
 SLOPE LOT ADJUSTMENT, LANDSCAPE & SOILS  
 LOTS 1 THRU 21  
 TAX MAP 31 PARCEL 563  
 2ND ELECTION DIST. HOWARD COUNTY, MD  
 MARCH, 1988  
 SCALE 1" = 40' SHEET 3 OF 5



TYPICAL HOUSE LAYOUTS

CONTRACTOR'S CERTIFICATE  
 I HEREBY CERTIFY THAT THIS PLAN FOR FOUNDATION AND STRUCTURE CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN MADE BY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY CONSERVATION DISTRICT.

*Robert H. ...*  
 REGISTERED PROFESSIONAL ENGINEER

DESIGNER'S CERTIFICATE  
 I HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION OF THIS PROJECT SHALL BE IN ACCORDANCE WITH THE PLAN AND SPECIFICATIONS HEREON AND THAT I SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE SITE AND THE CONTROL OF EROSION AND SEDIMENTATION THROUGHOUT THE PROJECT. I WILL MAINTAIN PERSONAL SUPERVISION OF THE PROJECT THROUGHOUT THE CONSTRUCTION PERIOD AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE SITE AND THE CONTROL OF EROSION AND SEDIMENTATION THROUGHOUT THE PROJECT.

*John W. ...*  
 REGISTERED PROFESSIONAL ENGINEER

APPROVED FOR HOWARD COUNTY CONSERVATION DISTRICT AND WESTMINSTER REQUIREMENTS BY  
*John W. ...*  
 REGISTERED PROFESSIONAL ENGINEER

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

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

DIRECTOR \_\_\_\_\_ DATE 10-24-88  
 CHIEF BUREAU OF ENGINEERING \_\_\_\_\_ DATE 10-24-88

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,  
 HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER \_\_\_\_\_ DATE 10-24-88  
 APPROVED BY HOWARD COUNTY OFFICE OF PLANNING & ZONING  
 DIRECTOR \_\_\_\_\_ DATE 10-27-88  
 CHIEF DIVISION OF COUNTY PLANNING AND LAND DEVELOPMENT \_\_\_\_\_ DATE 11-02-88

BRAMPTON HILLS (SECT. 1)  
 PLAT 1641  
 ZONED R-20

BRAMPTON HILLS (SECT. 2)  
 PLAT 5560  
 ZONED R-20



BENCH MARK  
 R.R. SPIKE EDGE OF ROAD - EL. 458.62

MONTGOMERY ROAD (MD RTE. # 103)

180' TAPER SECTION  
 250' FULL WIDTH SECTION  
 150' TAPER SECTION

LAND DEDICATED TO MD STATE HIGHWAY ADMINISTRATION FOR THE PURPOSE OF A PUBLIC ROAD

VEHICULAR INGRESS AND EGRESS IS RESTRICTED



**CONSTRUCTION SPECIFICATIONS**

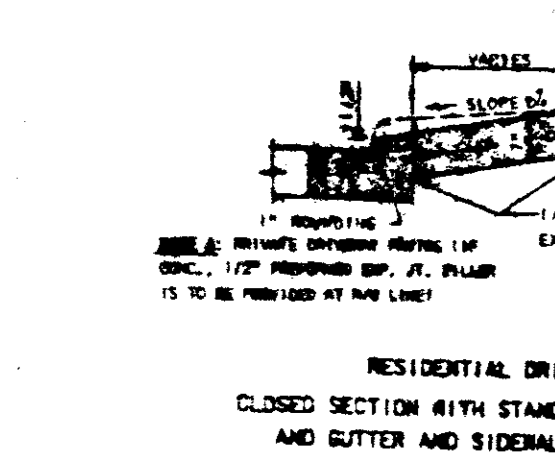
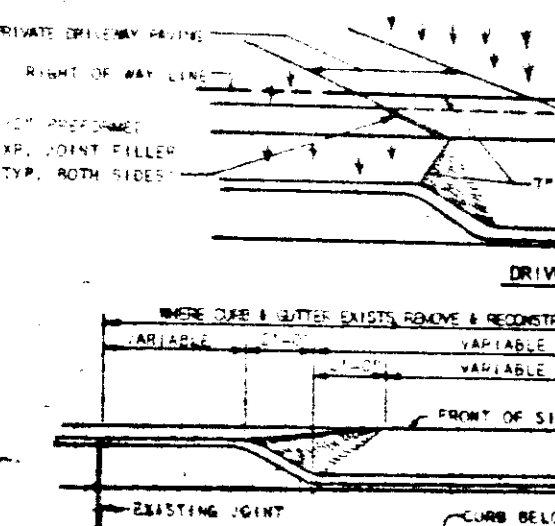
1. Obtain Erosion Control Permit.
2. Construct stabilized construction entrance for all sites.
3. If site is on a slope, grade and construct.
4. After construction, excavate & restore to original condition.
5. Use flow control & outlet pipe. Close down area until stabilized.
6. Use flow control & outlet pipe. Close down area until stabilized.
7. Construct drainage system & install inlet protection for all sites.
8. Inspect & maintain sediment & erosion control devices after each rainfall and after each storm.
9. Complete roadway construction & install curb & gutter & sidewalk.
10. Remove all debris & materials from site.
11. After construction has been given by the Sediment Control Inspector, backfill sediment traps, store drain construction with concrete & install inlet protection.
12. Stabilize all remaining disturbed areas with permanent seeding mixture and erosion control.

**TEMPORARY SEEDING NOTES**

- 1) A SYSTEM OF DRAINAGE MUST BE INSTALLED TO THE HOWARD COUNTY OFFICE OF CONSERVATION AND PLANNING PRIOR TO THE START OF ANY CONSTRUCTION (1983-84).
- 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 RESTORATION, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: a) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DYES TO ALL CONTOUR DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- 4) ALL SEDIMENT TRAPS, BASINS SHOWN MUST BE FENCED AND MARKING SIGNS POSTED AROUND 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 SEEDING (SEC. 12). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE USED 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 PERMITS FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- 7) SITE ANALYSIS:

TOTAL AREA OF SITE	11.40 ACRES
AREA DISTURBED	9.32 ACRES
AREA TO BE MOWED OR PAVED	1.41 ACRES
AREA TO BE VEGETATED	0.67 ACRES
TOTAL CDT STABILIZED	0.67 ACRES
TOTAL FILL	124.04 CU. YDS.
OFFSITE WASTE / BROWN AREA LOCATION	N/A

- 8) ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON SAME DAY OF DISTURBANCE.
- 9) ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DESIGNED NECESSARY BY THE HOWARD COUNTY SOIL SEDIMENT CONTROL INSPECTOR.



RESIDENTIAL DRIVEWAY ENTRANCE  
CLOSED SECTION WITH STANDARD 1" COMBINATION CURB AND GUTTER AND SIDEWALK SET BACK FROM CURB



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."  
Richard H. Cassell  
Signature of Engineer  
Date: 8/18/88  
RICHARD H. CASSELL

By the Developer:  
"I 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 Natural Resources 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 N. Bowers  
Signature of Developer  
Date: 8/18/88  
JOHN N. BOWERS

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND METS TECHNICAL REQUIREMENTS  
Date: 8/24/88  
U.S. SOIL CONSERVATION SERVICE  
Date: 10/17/88  
DIRECTOR  
Date: 11-22-88  
Chief, Division of Community Planning and Land Development  
Date: 10-21-88  
SUPERVISOR OF ENGINEERING  
DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
Date: 10/18/88  
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT  
Date: 10-24-88  
COUNTY HEALTH OFFICER  
DATE

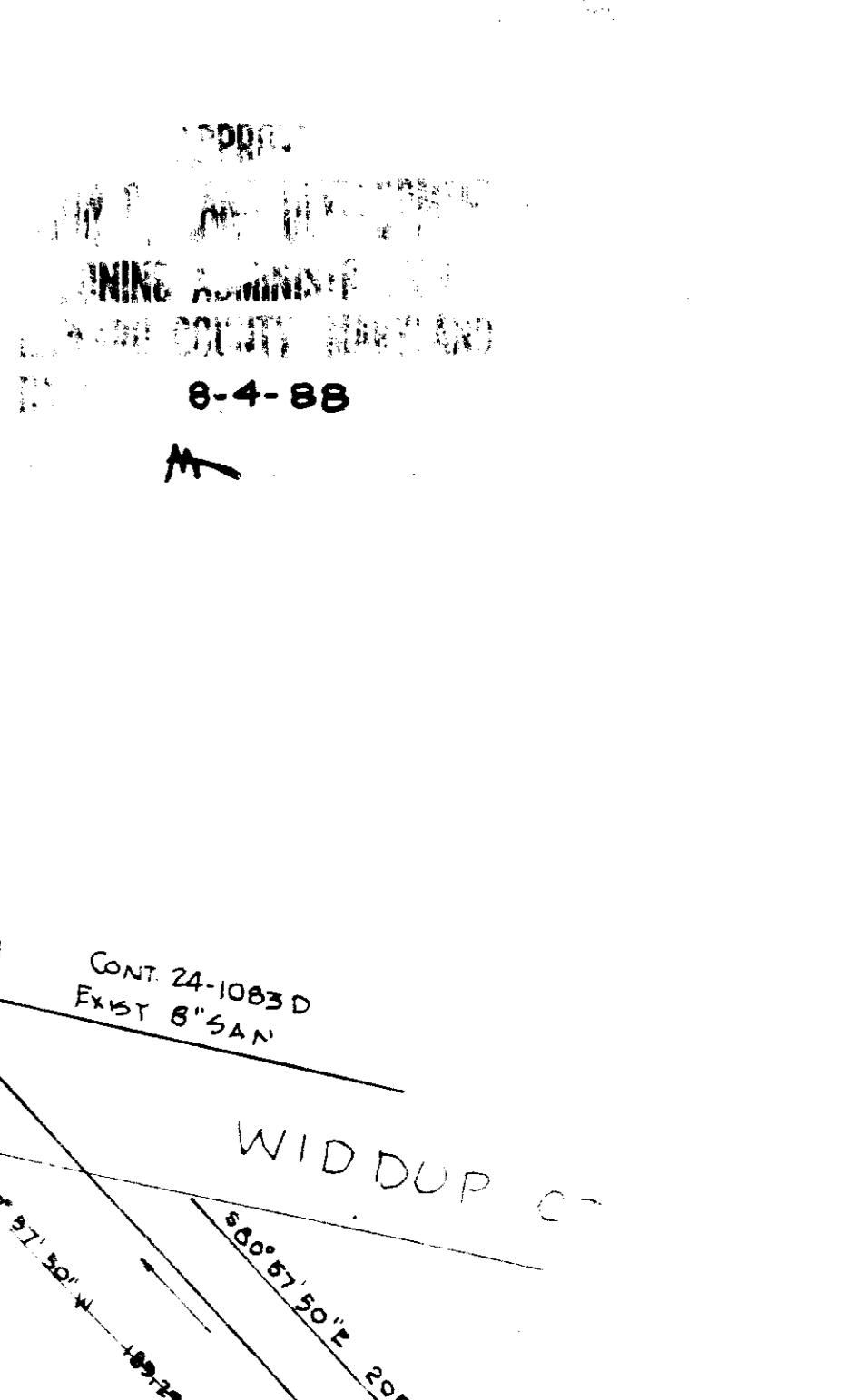
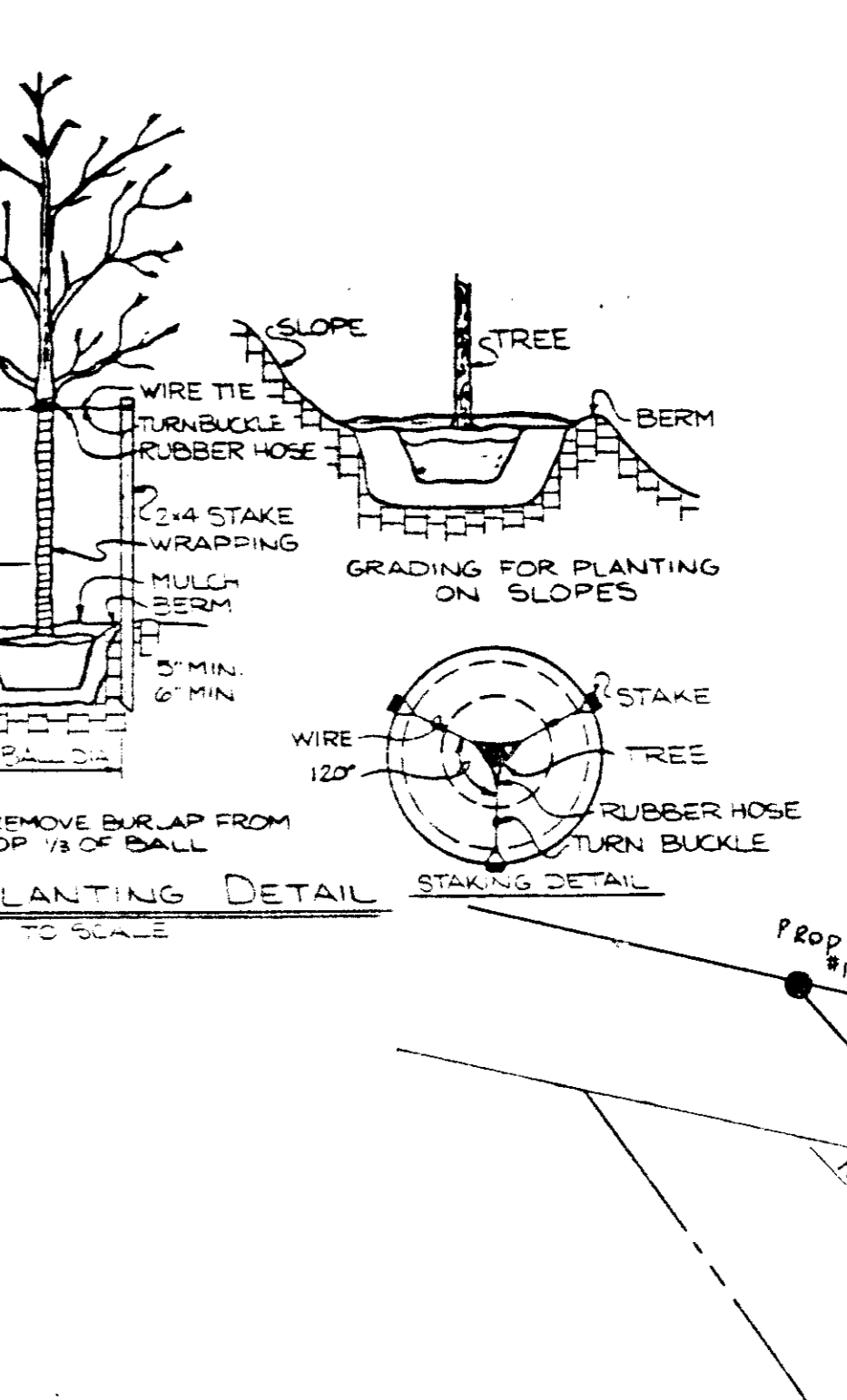
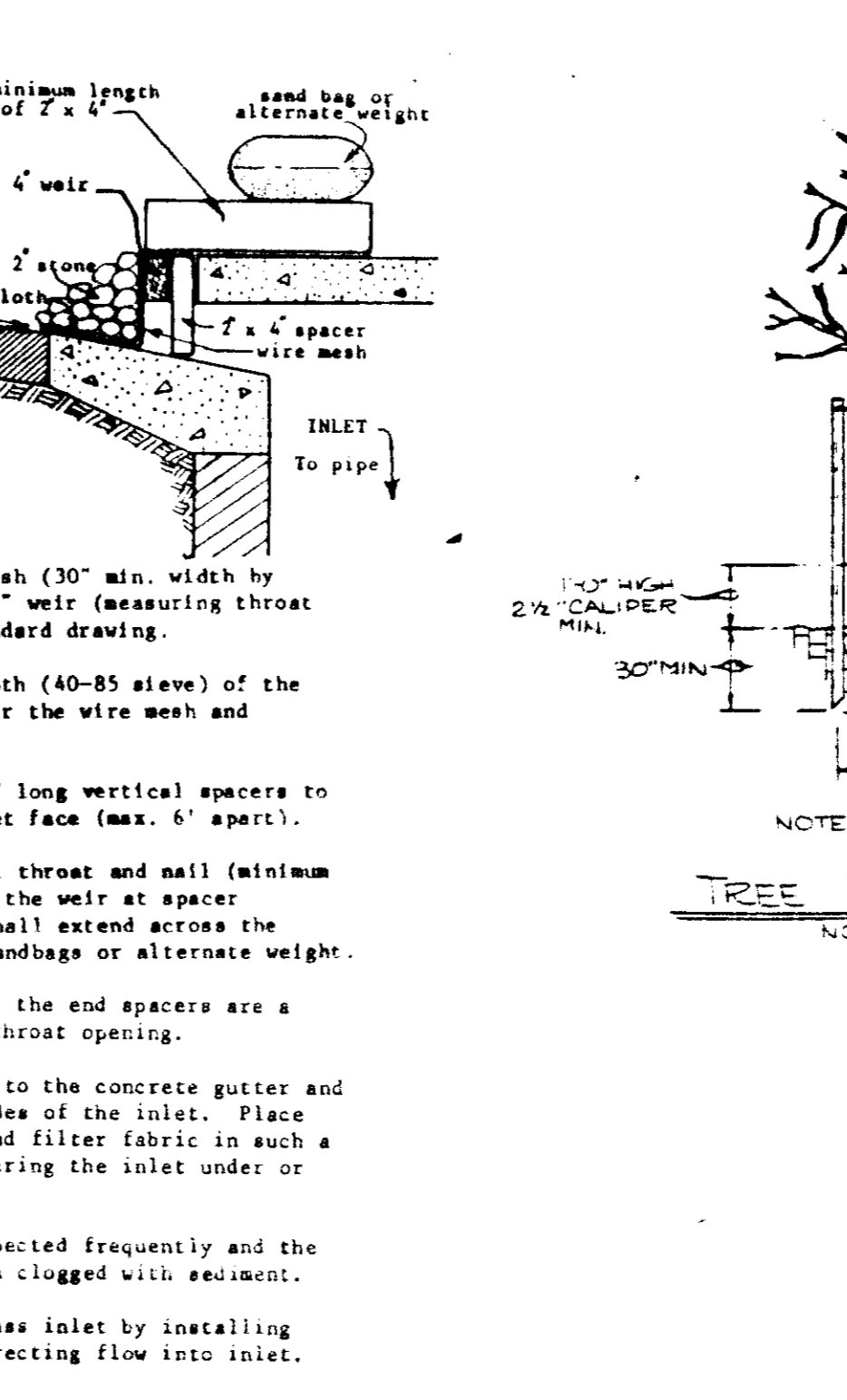
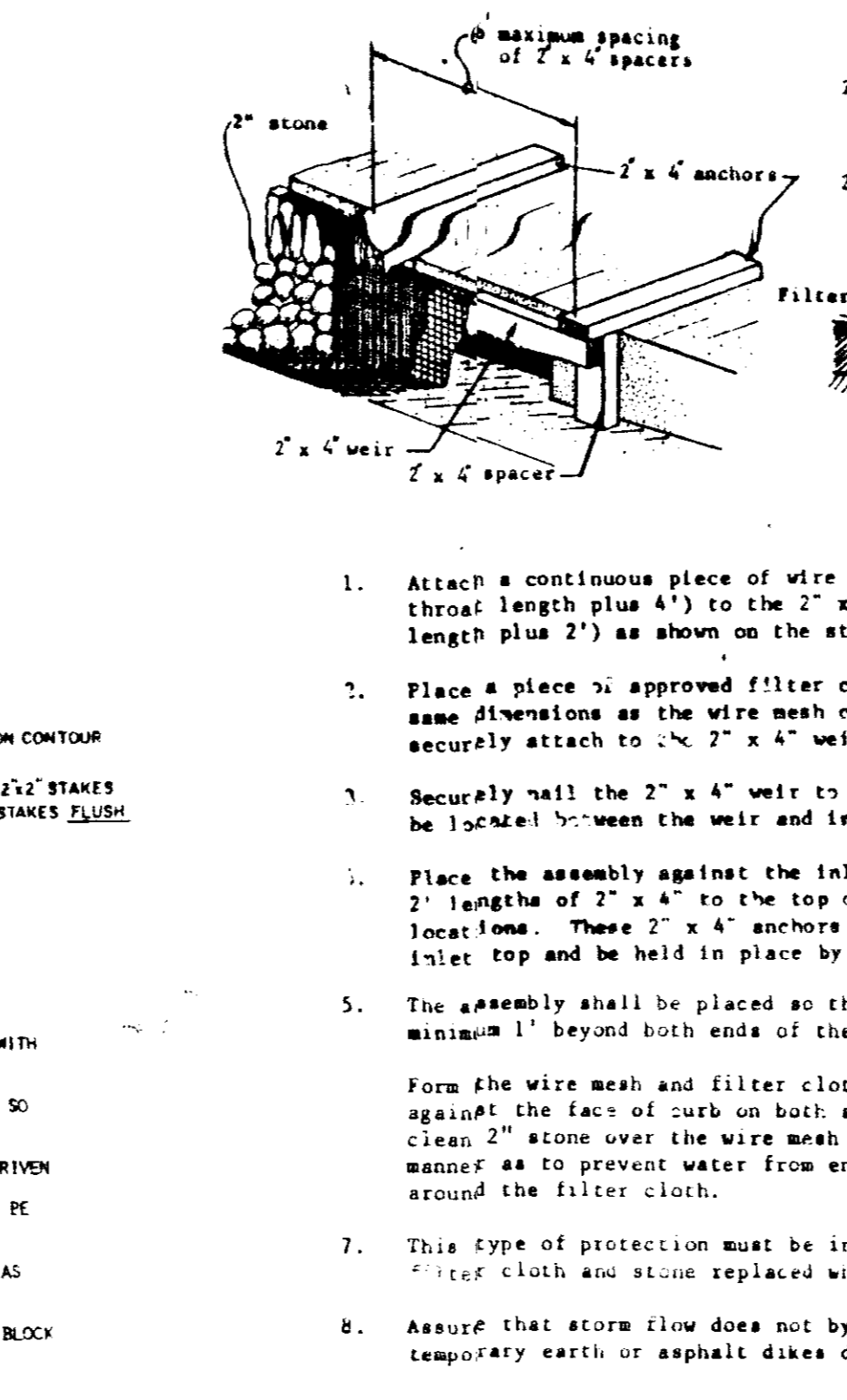
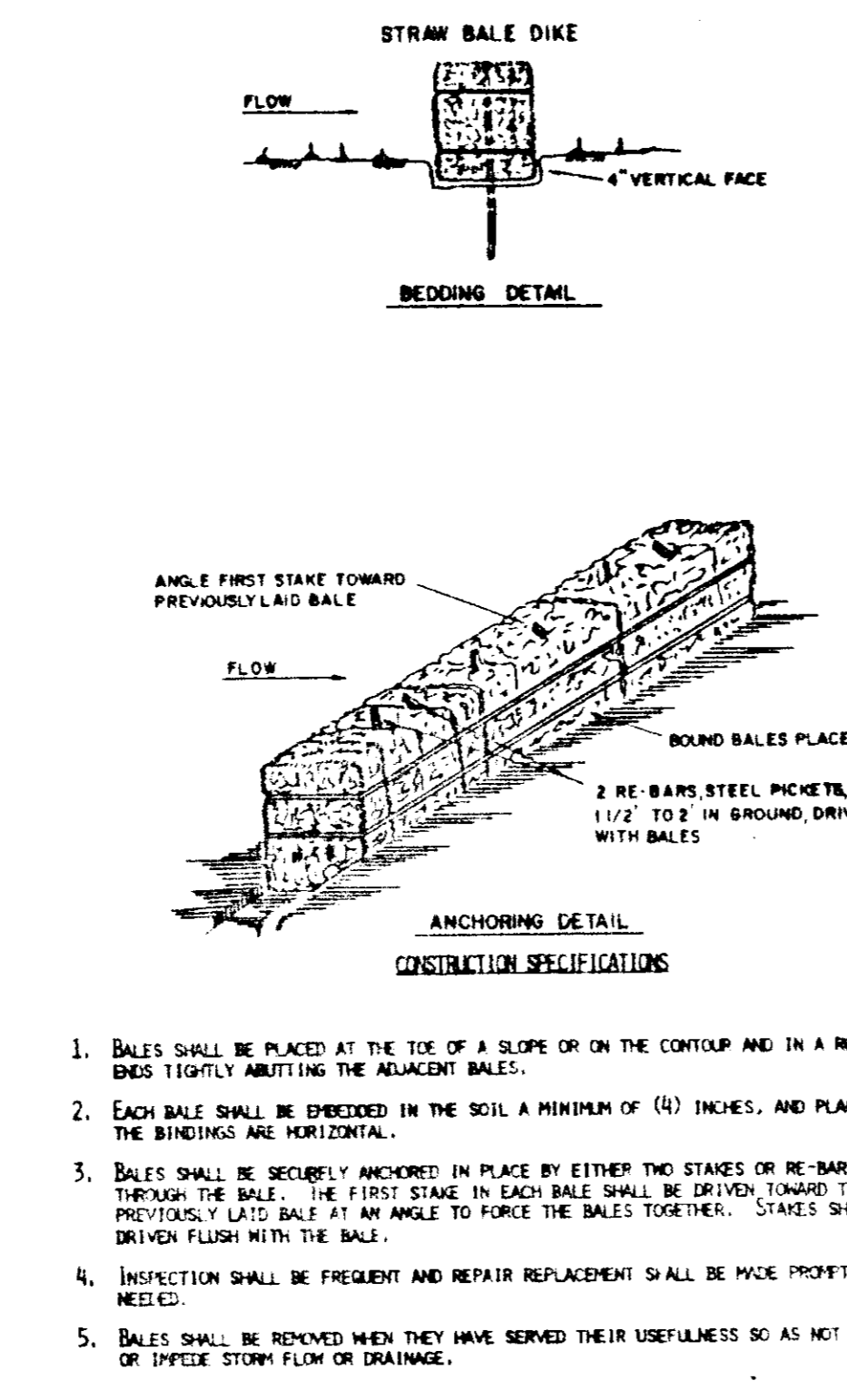
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
Date: 10/18/88  
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT  
Date: 10-24-88  
COUNTY HEALTH OFFICER  
DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
Date: 10/18/88  
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT  
Date: 10-24-88  
COUNTY HEALTH OFFICER  
DATE

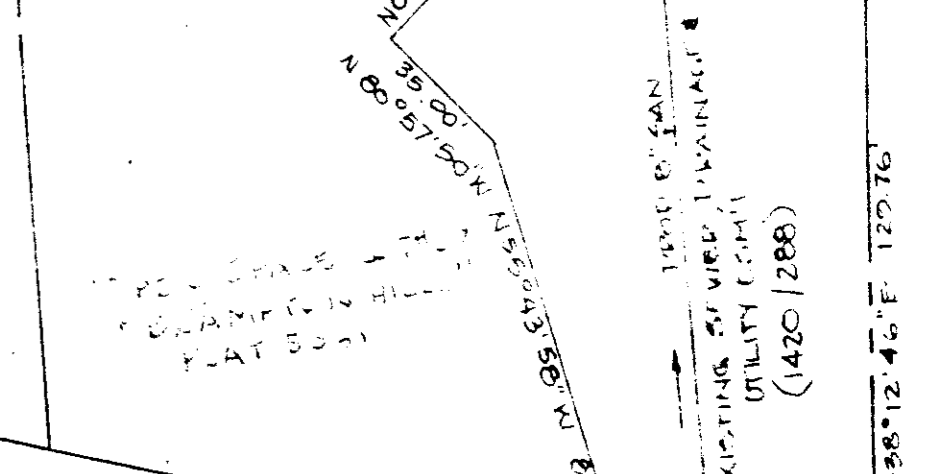


OWNER/DEVELOPER  
HERITAGE HOMES IN OAKWOOD LIMITED PARTNERSHIP  
8950 RT. 108 SUITE 210, GORMAN PLAZA  
COLUMBIA, MARYLAND 21045  
ATLANTIC ENGINEERING, Corp.  
CONSULTING ENGINEERS, PLANNERS  
196 PENNSYLVANIA AVE. WESTMINSTER, MD. 21157  
(301) 876-1288  
AREA MD. RT. 103 NEAR BRAMPTON PARKWAY  
2nd ELECTION DISTRICT, HOWARD COUNTY MD  
TAX MAP 31, PARCEL 563  
TITLE  
MANORS OF OAKWOOD  
SECTION ONE  
LOTS 1-20 AND LOT 21  
Des. By RHC MFF Scale: Date 6/24/87  
Drn. By AEC Date 6/24/87  
Chk. By RHC Approved Drawing No. 4 of 5

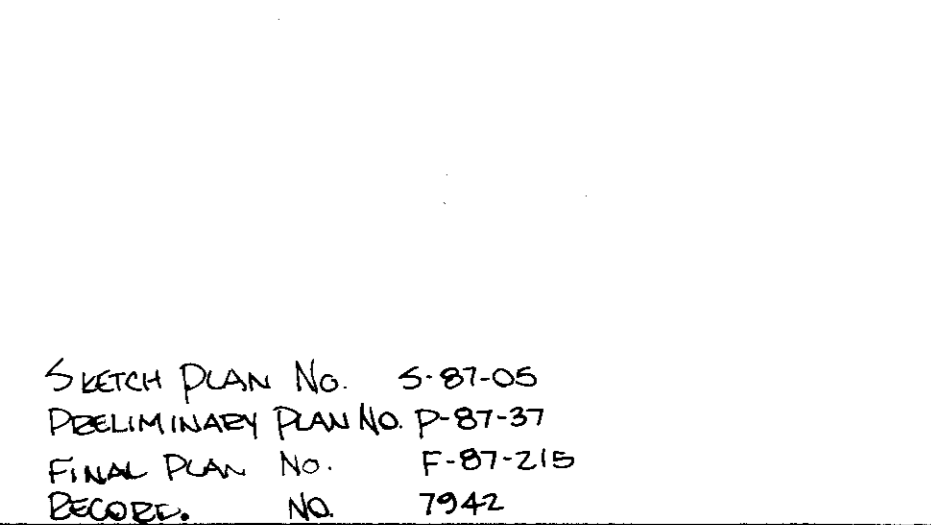
**SOIL AMENDMENTS:** IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING:  
1) PREPARED: APPLY 2 TONS PER ACRE BOLSOMITIC LIMESTONE (92 LBS/1000 FT<sup>2</sup>) AND 500 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 FT<sup>2</sup>) BEFORE SEEDING. BARROW OR DISC INTO UPPER THREE-INCHES OF SOIL.  
2) ACCEPTABLE: APPLY 2 TONS PER ACRE BOLSOMITIC LIMESTONE (92 LBS/1000 FT<sup>2</sup>) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (28 LBS/1000 FT<sup>2</sup>) BEFORE SEEDING. BARROW OR DISC INTO UPPER THREE-INCHES OF SOIL.  
SEEDING: FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 5 LBS PER ACRE (1.4 LBS/100 FT<sup>2</sup>) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD OF OCTOBER 16 THROUGH FEBRUARY 28, SEED WITH 4 LBS PER ACRE AND 2 LBS PER ACRE (0.5 LBS/1000 FT<sup>2</sup>) OF WEEPING LOVEGRASS. MOWING: PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOU. OPTION (3) SEED WITH 40 LBS PER ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS PER ACRE WELL ANCHORED STRAW.  
MULCHING: APPLY 1.5 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 FT<sup>2</sup>) OF UNROTATED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 2 1/2 GAL PER ACRE (5 GAL/1000 FT<sup>2</sup>) OF UNROTATED ASPHALT OR PLANT AREA ON SLOPES & FLOW RIDGES. USE 3/4 GAL PER ACRE (8 GAL/1000 FT<sup>2</sup>) FOR ANCHORING.  
MAINTENANCE: INSPECT ALL SEEDING AREAS AND MAKE REPAIRS, REPLACEMENTS AND RESEEDINGS.



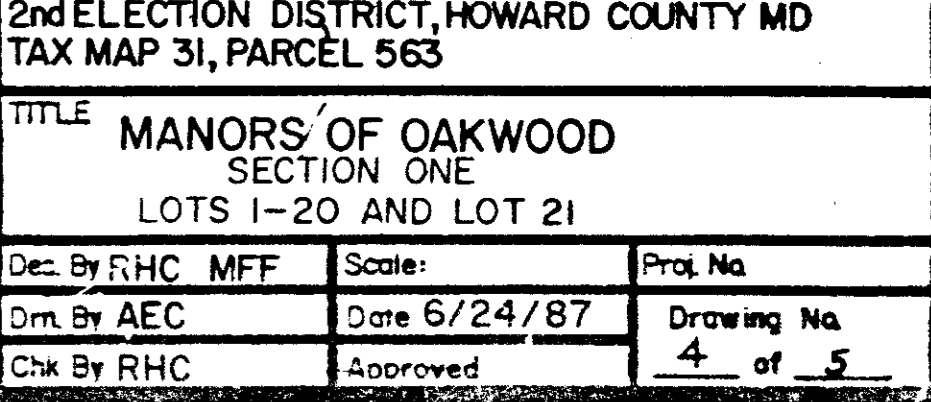
	TRAP 1	TRAP 2	TRAP 3
1. STONE OUTLET SED. TRAP	1.12 AC	2.2 AC	1.38 AC
2. DRAINAGE AREA	2.2 AC	396.7 FT <sup>2</sup>	2479.4 FT <sup>2</sup>
3. STORAGE BLVD.	2.2 AC	4220.1 FT <sup>2</sup>	3150.4 FT <sup>2</sup>
4. STORAGE PROJ.	7.5 FT	30.4 FT	30.4 FT
5. OUTLET LENGTH	3.0 FT	30.4 FT	30.4 FT
6. STORAGE DEPTH	3.0 FT	30.4 FT	30.4 FT
7. EMBANK. HEIGHT	3.0 FT	30.4 FT	30.4 FT
8. STONE CR. ELEV.	442.0'	435.5'	431.0'
9. BOTTOM ELEV.	435.0'	430.5'	427.0'
10. TOP BANK ELEV.	441.0'	437.0'	433.0'
11. CLEAN-UP ELEV.	NA	NA	NA
12. BOT. TRAP ELEV.	435.0'	430.5'	427.0'
13. BOT. TRAP D.M.	30 x 37'	30 x 42'	50 x 15'
14. CR. CR. ELEV. (at outlet)	441.0'	434.5'	430.0'



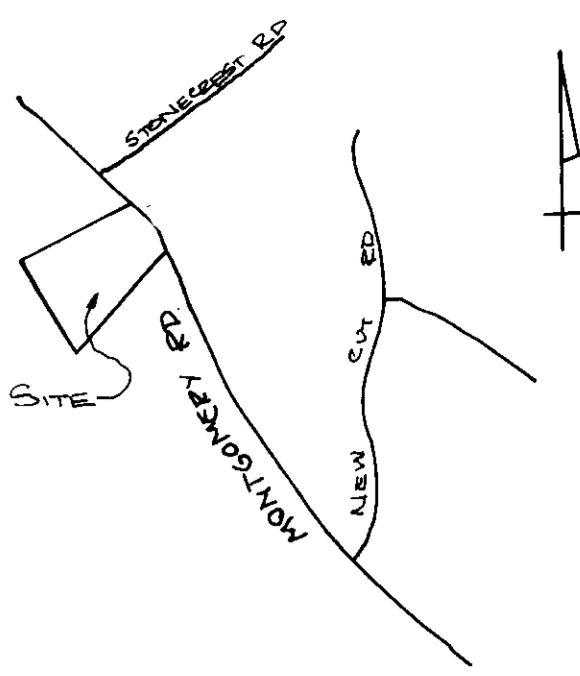
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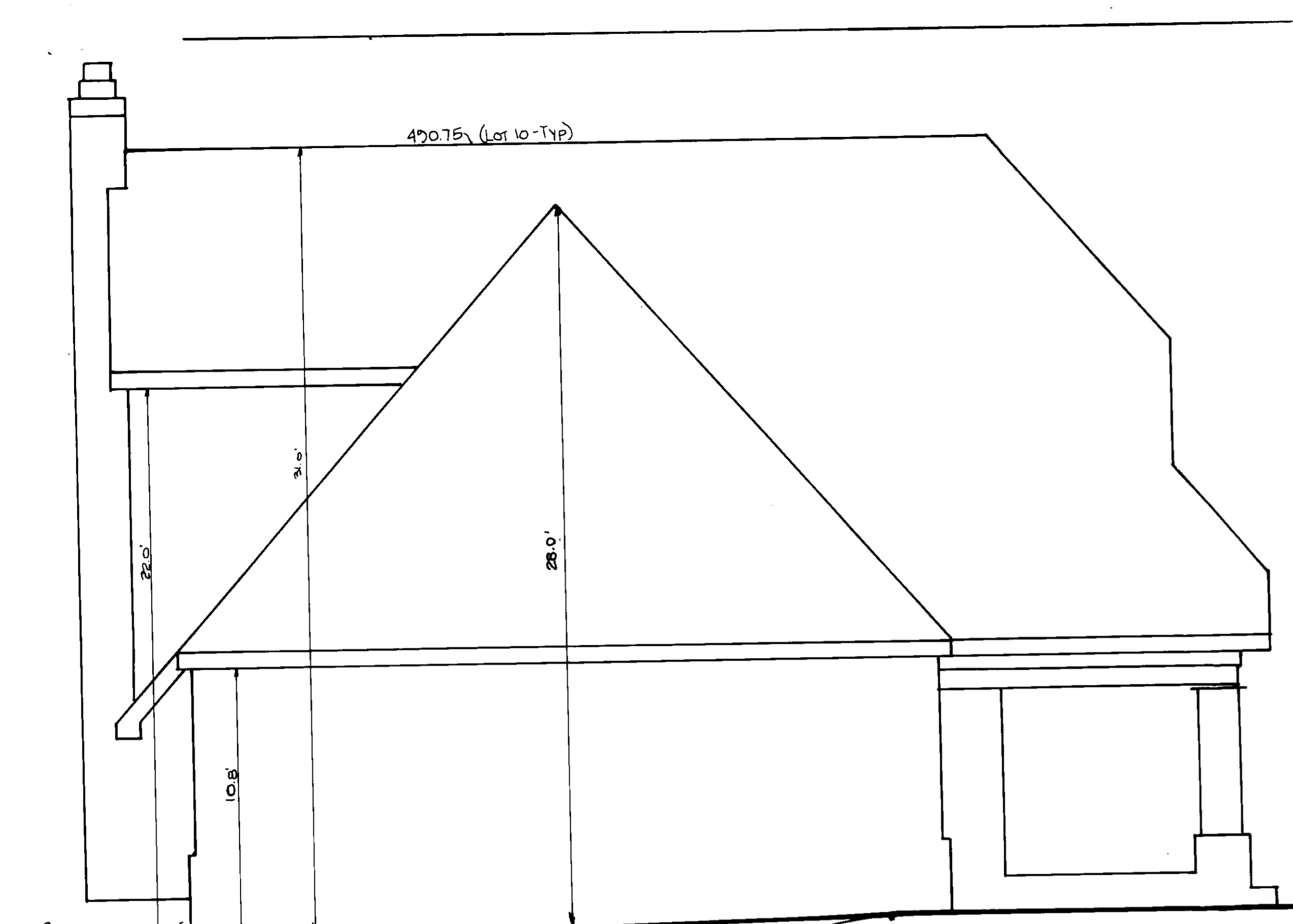
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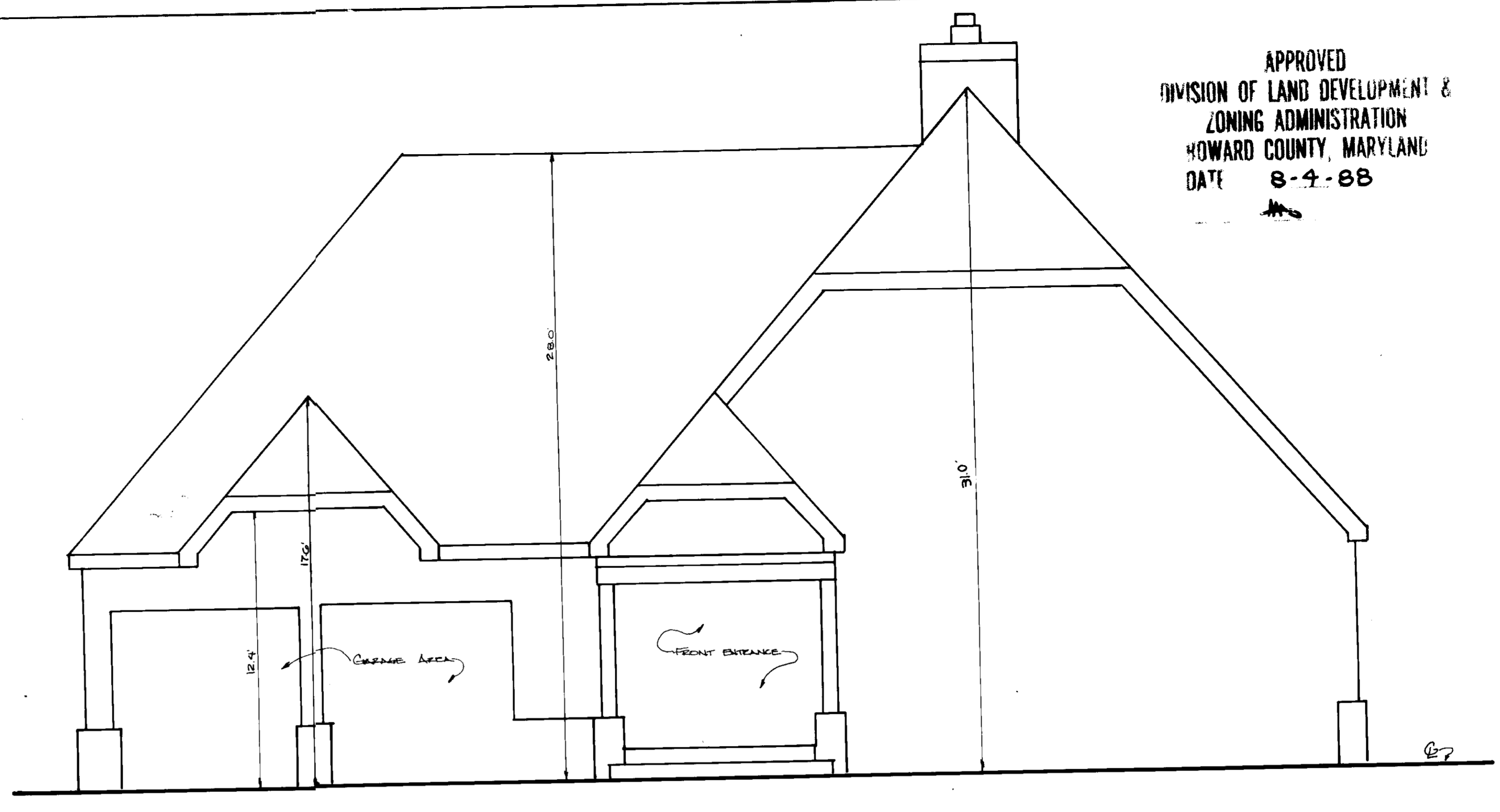
APPROVED  
 DIVISION OF LAND DEVELOPMENT &  
 ZONING ADMINISTRATION  
 HOWARD COUNTY, MARYLAND  
 DATE 8-4-88



VICINITY MAP  
 1" = 2000 FT

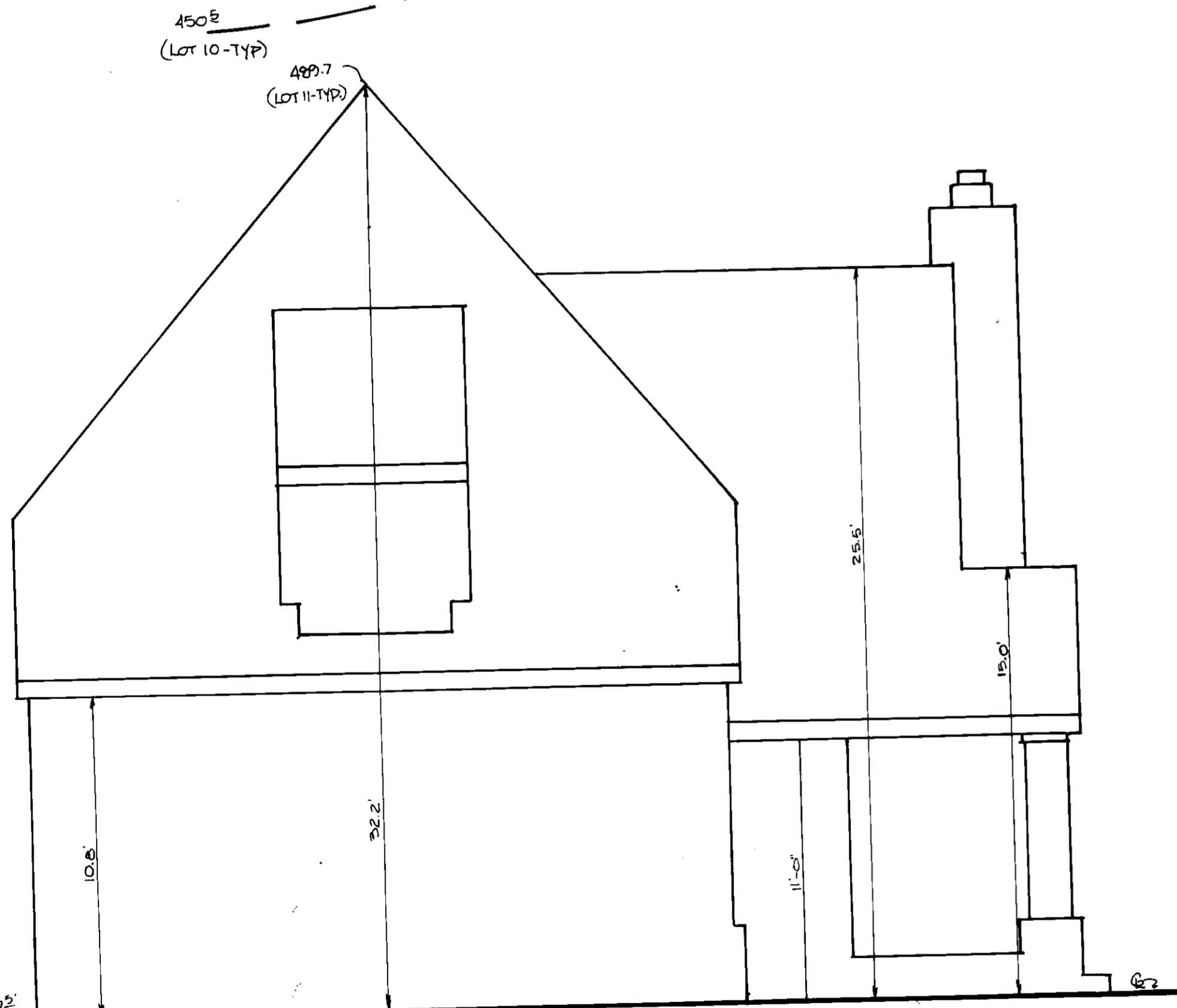


GARAGE SIDE ELEVATION  
 1/4" = 1'-0"

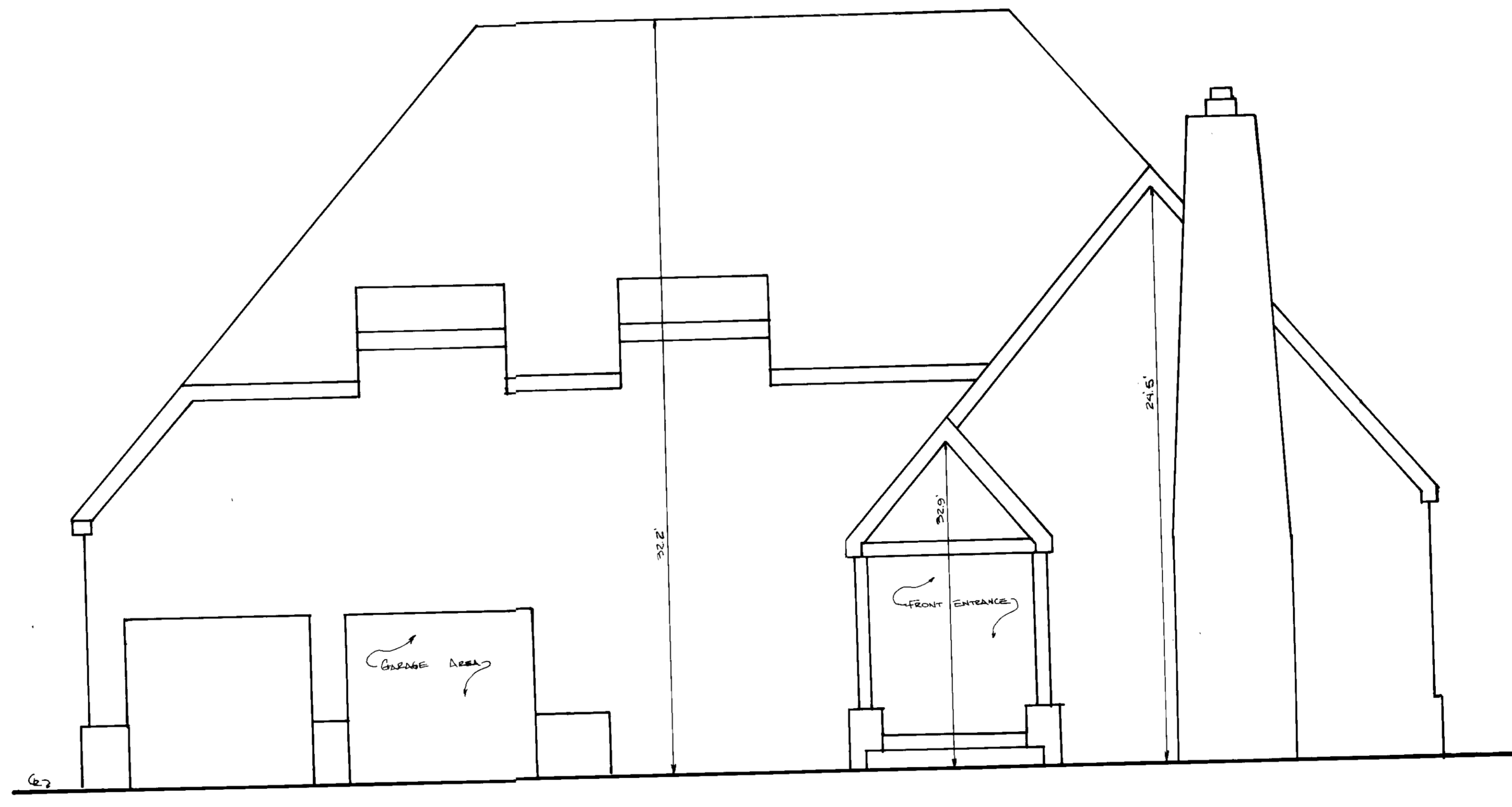


FRONT ELEVATION  
 1/4" = 1'-0"

TYPE B (REVERSED)



GARAGE SIDE ELEVATION  
 1/4" = 1'-0"



FRONT ELEVATION  
 1/4" = 1'-0"

TYPE A (A REVERSED)

SKETCH PLAN No. S-87-05  
 PRELIMINARY PLAN No. P-87-37  
 FINAL PLAN No. F-87-215  
 RECORDER No. 7942

OWNER / DEVELOPER  
 HERITAGE HOMES in OAKWOOD LTD. PARTNERSHIP  
 8590 RT. 108 SUITE 210 GORMAN PLAZA  
 COLUMBIA MARYLAND 21045

ATLANTIC ENGINEERING Corp.  
 CONSULTING ENGINEERS, PLANNERS  
 196 PENNSYLVANIA AVE. WESTMINSTER MD. 21157  
 (301) 876-1288

MD RT. 103 NEAR BRAMPTON PKWY  
 2nd ELECTION DIST. HOWARD COUNTY MD  
 TAX MAP 31 PARCEL 563

MANORS OF OAKWOOD

BUILDING ELEVATIONS

DES. BY: RHC Scale: 1/4" = 1'-0"  
 DRN. BY: GBL Date: 8-18-88 Drawing No. 5 of 5  
 CHK. BY: RHC Approved



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

James J. [Signature] 10/21/88  
 DIRECTOR DATE  
 [Signature] 10-21-88  
 CHIEF BUREAU OF ENGINEERING DATE

APPROVED FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS  
 HOWARD COUNTY HEALTH DEPARTMENT

[Signature] 10-24-88  
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD CO. OFFICE OF PLANNING & ZONING

[Signature] 10-27-88  
 DIRECTOR DATE  
 [Signature] 10-26-88  
 CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

SDP-88-19