

10/24/01 Layout ~ 1 p.m.

10/25/01 Final ANYTIME

11/1/01 Follow-up A.M.

3/5/02 10:00 Pump Test

10/26/01
1:00
12'

RPS#
334767

ISSUE DATE: 10/12/2001

APPROVAL DATE: 3/5/02

PERMIT INDEXED

P 516071-B

A 511441-P

ON-SITE SEWAGE DISPOSAL SYSTEM HOWARD COUNTY HEALTH DEPARTMENT BUREAU OF ENVIRONMENTAL HEALTH

K&K _____ IS PERMITTED TO INSTALL ☒ ALTER ☐

ADDRESS: _____ PHONE NUMBER: _____

SUBDIVISION: Estates at Sand Hill LOT NUMBER: 39

ADDRESS: 12061 Sand Hill Manor Drive PROPERTY OWNER: Oak Hill Properties

SEPTIC TANK CAPACITY (GALLONS): 1250 (TOPSEAM)

PUMP CHAMBER CAPACITY (GALLONS): 1250 (TOPSEAM)

NUMBER OF BEDROOMS: 4

SQUARE FEET PER BEDROOM: 180

LINEAR FEET OF TRENCH REQUIRED: 240

PUB H₂O

TRENCHES:	Trench to be 3.0 feet wide. Inlet 2.5 feet below original grade. Bottom maximum depth 4.5 feet below original grade. Effective area begins at 3.5 feet below original grade. 2.0 feet of stone below distribution pipe.
LOCATION:	Place the distribution box 160' down the right lot line and 10' off this same lot line. Run (2) 120' trenches on contour to rear of lot as shown on plan.
NOTES:	Install tanks in location shown to maintain a maximum of three feet of finished cover. PUBLIC WATER

PLANS APPROVED: MER OUSRU 10/10/01 DATE: 9/20/01

NOTE: PERMIT VOID AFTER 2 YEARS

NOTE: CONTRACTOR RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS

NOTE: WATERTIGHT SEPTIC TANKS REQUIRED

NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE 100 FEET FROM ANY WATER WELL

NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS

NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS
RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM
PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT
BUILDING PERMIT SIGNED 40-313-2640 FOR INSPECTION OF SEPTIC SYSTEM
AND RETURNED

AS11441-P

NOT TO SCALE

TRENCH DATA

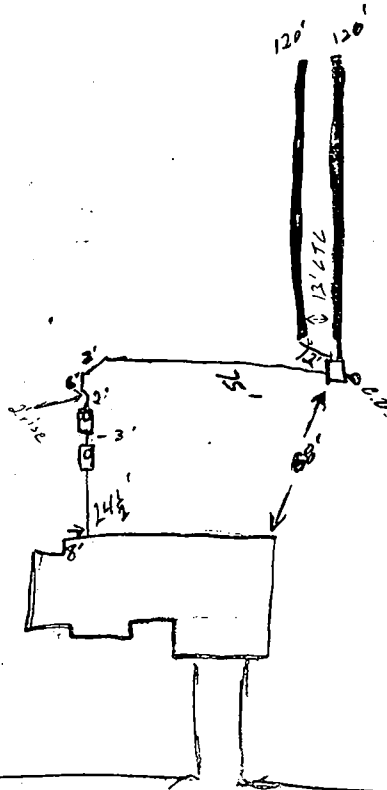
TRENCH WIDTH 3'
TRENCH INLET DEPTH 2.5'
TRENCH BOTTOM DEPTH 4.5'
DEPTH OF STONE 2'
NUMBER OF TRENCHES 2
TOTAL TRENCH LENGTH 240'
ABSORBENT AREA 720 ft²
DISTRIBUTION BOX LEVEL ✓
BAFFLE IN DISTRIBUTION BOX Cinder Block

SEPTIC TANK DATA

SEPTIC TANK 1500 T.S. GALLONS
MANHOLE RISER 3'
6 INCH INSPECTION PORT None

PUMP CHAMBER DATA

PUMP CHAMBER GALLONS 1500 T.S.
MANHOLE RISER 5'
ALARM Functional
PUMP PERFORMANCE TEST OK



SAND HILL MANOR DR.

PRE-CONSTRUCTION INSPECTION: 10/24/01 INSTALL PER PLAN Topo Accurate K6/MR

INSPECTION COMMENTS: 10/25/01 HOUSE FOUND MADE UNDER FOOTING K6 10/26/01 Tanks set, 2" sch 40 to DB, needs baffle in PT inlet. OK to cover to DB SE
11/1/01 OK to cover all work, alarm & pump test needed SE
3/5/02 Pump & Alarm Tests OK SE

INSPECTOR

[Signature]

DATE SYSTEM APPROVED

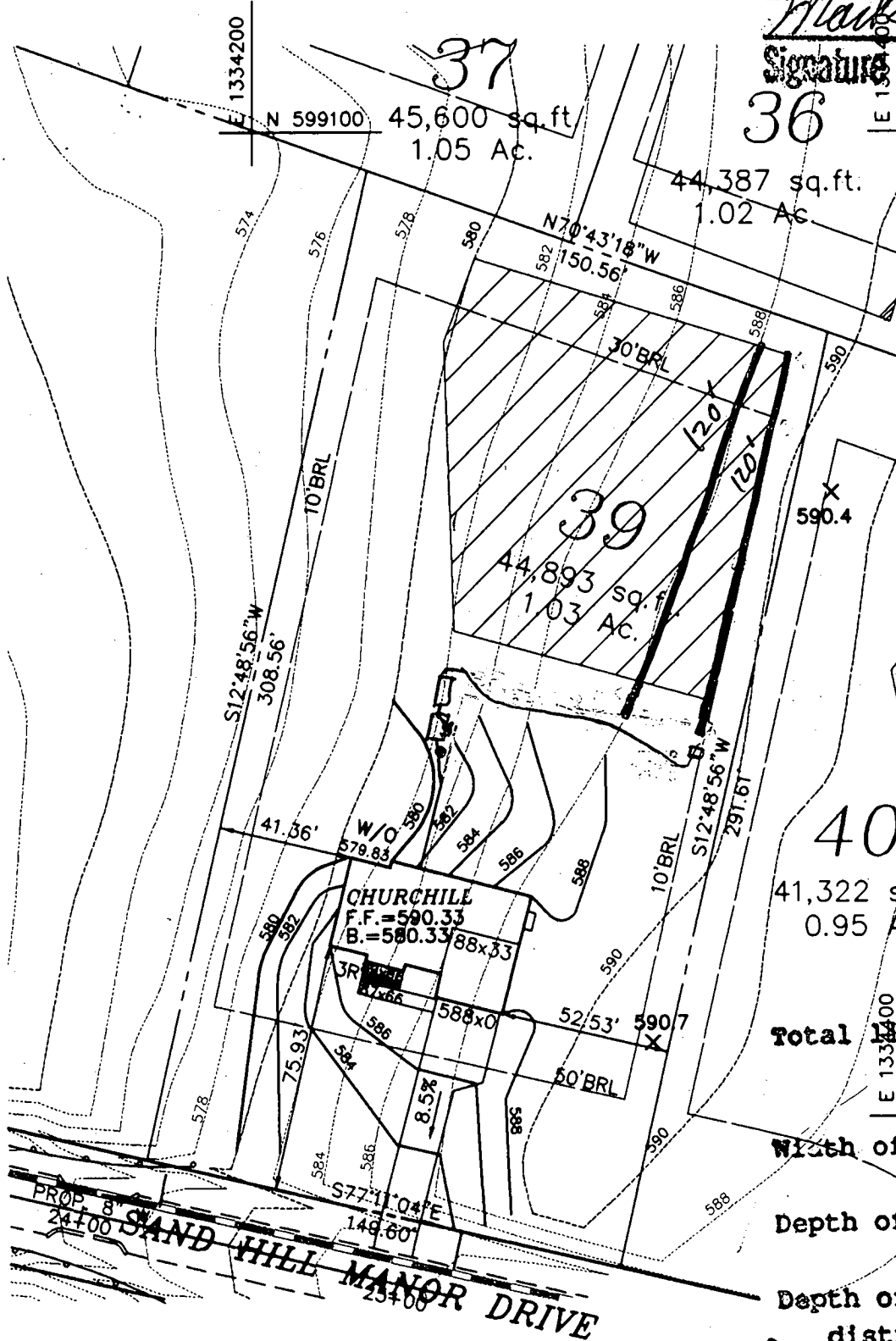
3/5/02

BUILDING PERMIT SIGNED

DATE OF SIGNATURE

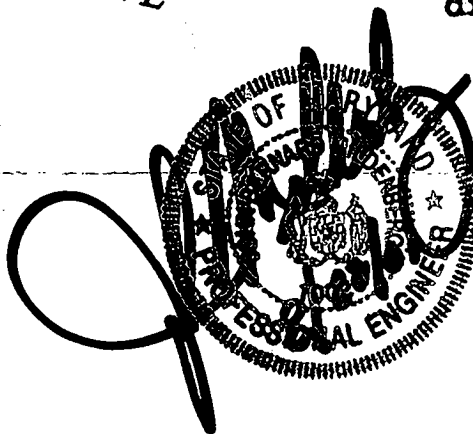
Approved Septic System Plan
Howard County Health Department

Mark Lyle
Signature
36
Date 9/20/01



Total linear feet of trench required 240 feet
Width of trench(es) 3 feet
Depth of trench(es) 4.5 feet
Depth of stone required below distribution pipe 2 feet

FIRST FLOOR EL. = 590.33
INV. OUT OF HOUSE = 578.33
INV. IN SEPTIC TANK = 577.78
INV. OUT OF SEPTIC TANK = 577.53
EXIST. EL. AT SEPTIC TANK = 573.00
PROP. EL. AT SEPTIC TANK = 573.00
INV. IN TO PUMP PIT = 570.73
EXIST. EL. AT DIST. BOX = 589.00
INV. IN DIST. BOX = 586.50



G.P. # 02-07
PLAT # 14580-14585

THE ESTATES AT SAND HILL

PLOT PLAN LOT # 39
12061 SAND HILL MANOR DRIVE

ELECTION DISTRICT: 3 TAX MAP: 16 HOWARD COUNTY, MARYLAND
DRAWN BY: M.M.P. SCALE: 1"=50' DATE: AUGUST 22 2001

**MILDENBERG,
BOENDER & ASSOC., INC.**
Engineers Planners Surveyors

5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0296 Ball. (301) 621-5521 Wash. (410) 997-0296 Fax.

DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS 3430 COURT HOUSE DRIVE ELLCOTT CITY, MD 21043 PERMITS (410)313-2456 INSPECTIONS (410)313-1810 AUTOMATED INFORMATION (410) 313-3800	HOWARD COUNTY PERMIT APPLICATION	PERMIT NUMBER B00132142
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Building Address <u>12061 SAND HILL MANOR DRIVE</u> <u>MARKKOTSVILLE MD 21104</u>	Property Owner's Name _____
Suite/Apt. #: <u>N/A</u> SDP/WP/Petition #: <u>ESTATESAT</u>	Address _____
Census Tract <u>6030</u> Subdivision <u>SAND HILL</u>	City _____ State _____ Zip Code _____
Section <u>N/A</u> Area <u>N/A</u> Lot <u>39</u>	Home Phone _____
Tax Map <u>16</u> Parcel <u>3</u> Grid <u>2</u>	Applicant's Name <u>Oak Hill Properties, L.L.C.</u> <u>197 Loudoun Street, S.E.</u> <u>301 Leesburg, VA 20175-3106</u>
Zoning <u>PR200</u> Map Coordinates <u>1061</u> Lot size _____	Phone _____ Fax _____
Existing Use <u>VACANT LOT</u>	Contractor Company <u>SAME AS ABOVE</u>
Proposed Use <u>NEW HOME</u>	Contact Person _____
Estimated Construction Cost \$ <u>70,000</u>	Address _____
Description of Work <u>CONSTRUCT A CHURCHILL</u> <u>2 STORY PART BSMT 9R 2 FR LHP</u> <u>FPA GARAGE (4 BEDROOM)</u>	City _____ State _____ Zip Code _____
Occupant or Tenant _____	License No. <u>CTK05160/MHK.0165</u>
Contact Name _____	Phone _____ Fax _____
Address <u>Oak Hill Properties, L.L.C.</u> <u>107 Loudoun Street, S.E.</u>	Engineer or Architect Company <u>MILDINCENTL</u>
City <u>Leesburg, VA 20175-3106</u>	Contact Person <u>JOHN</u>
Phone _____ Fax _____	Address _____
	City _____ State _____ Zip Code _____
	Phone _____ Fax _____

BUILDING DESCRIPTION - <u>COMMERCIAL</u>		BUILDING DESCRIPTION - <u>RESIDENTIAL</u>	
<u>Building Characteristics</u>	<u>Utilities</u>	<u>Building Characteristics</u>	<u>Utilities</u>
Height: _____	Water Supply: _____ Public _____ Private _____	SF Dwelling ☒ SF Townhouse ☐	Water Supply: _____ ☒ Public _____ Private _____
No. of stories: _____	Sewage Disposal: _____ Public _____ Private _____	1st floor: <u>36'8"</u> <u>56'7"</u> 2nd floor: <u>31'4"</u> <u>56'7"</u> Basement: <u>31'6"</u> <u>36'6"</u>	Sewage Disposal: _____ Public _____ Private ☒
Gross area, sq. ft. per floor: _____	Electric Yes ☐ No ☐ Gas Yes ☐ No ☐	Finished Basement ☐ Unfinished Basement ☒ Crawl space ☐ Slab on Grade ☐ No. of Bedrooms <u>4</u>	Electric Yes ☒ No ☐ Gas Yes ☒ No ☐
Use group: _____	Heating System: _____ Electric ☐ Oil ☐ Natural Gas ☐ Propane Gas ☐	Multi-family dwellings: _____ No. of efficiency units: _____ No. of 1 BR units: _____ No. of 2 BR units: _____ No. of 3 BR units: _____	Heating System: _____ Electric ☐ Oil ☐ Natural Gas ☒ Propane Gas ☐
Construction type: _____ Reinforced Concrete _____ Structural Steel _____ Masonry _____ Wood Frame _____	Sprinkler system: <u>N/A</u> ☐ Full _____ Partial _____ Other Suppression _____ # of Heads _____	Other Structure: _____ Dimensions: _____ Footings: _____ Roof: _____	Sprinkler system: <u>N/A</u> ☒ NFPA #13D _____ NFPA #13R _____ Other: _____
State Certified Modular _____		State Certified Modular _____ Manufactured Home _____	

THE UNDERSIGNED HEREBY CERTIFIES AND AGREES AS FOLLOWS: (1) THAT HE/SHE IS AUTHORIZED TO MAKE THIS APPLICATION; (2) THAT THE INFORMATION IS CORRECT; (3) THAT HE/SHE WILL COMPLY WITH ALL REGULATIONS OF HOWARD COUNTY WHICH ARE APPLICABLE HERETO; (4) THAT HE/SHE WILL PERFORM THE WORK ON THE ABOVE REFERENCED PROPERTY NOT SPECIFICALLY DESCRIBED IN THIS APPLICATION; (5) THAT HE/SHE GRANTS COUNTY OFFICIALS THE RIGHT TO ENTER ONTO THIS PROPERTY FOR THE PURPOSE OF INSPECTING THE WORK PERMITTED AND POSTING NOTICES.

Applicant's Signature <u>Kevin Rogers</u> <u>COO</u>	Print Name <u>KEVIN ROGERS</u> <u>8/23/2001</u>
Title/Company _____	Date _____

Checks payable to: DIRECTOR OF FINANCE OF HOWARD COUNTY
** PLEASE WRITE NEATLY AND LEGIBLY **

FOR OFFICE USE ONLY			DPZ SETBACK INFORMATION		PROPERTY ID# <u>51871</u>	
AGENCY	DATE	SIGNATURE APPROVAL	Front: _____	Filing fee	\$ <u>100</u>	
Land Development, DPZ			Rear: _____	Permit fee	\$ _____	
State Highways			Side: _____	Excise tax	\$ _____	
Building Official			Side St: _____	Add'l per. fee	\$ _____	
Dev. Engineering, DPZ	<u>9/20/01</u>	<u>mark r</u>	All minimum setbacks met?	TOTAL FEES	\$ _____	
Health			YES ☐ NO ☐	Sub-total paid	\$ _____	
Fire Protection			Is Entrance Permit required?	Balance due	\$ _____	
Sediment Control approval required prior to issuance?			YES ☐ NO ☐	Check # <u>9249</u>		
CONTINGENCY CONSTRUCTION START: ☐			Historic District?	Validation # <u>44443</u>		
ONE STOP SHOP: ☐			YES ☐ NO ☐	Accepted by <u>C. B.</u>		
Distribution of Copies	White: Building Official	Green: LDD, DPZ	Lot Coverage for New Town Zone _____			
			SDP/Red-line approval date _____			

APPLICATION

PERCOLATION TESTING

A 511435

P _____

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 313-2640

DISTRICT _____

DATE 2/24/99

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

I HEREBY APPLY FOR THE NECESSARY TEST PRIOR TO APPLICATION FOR PERMIT TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER R. Jeanette Miller, Trustee; Clyde Day Pendleton, Et Al

ADDRESS 14965 Frederick Road, Woodbine, MD 21797 PHONE _____

AGENT OR PROSPECTIVE BUYER Oak Hill Properties, LLC; Attn: Mr. Kevin Rogers

ADDRESS 107 Loudoun Street, SE, Leesburg, VA. 20175 PHONE 703 443 0400

PROPERTY LOCATION:

18DIVISION Sand Hill Property LOT NO. 1 though 78

ROAD AND DESCRIPTION East side intersection of Sand Hill Road and Mt. View Road

TAX MAP 16 PARCEL # 3

SIZE OF LOT 40,000 to 60,000 S.F. TYPE BLDG. Single Family Dwelling
(SINGLE FAMILY DWELLING OR COMMERCIAL)

THE SYSTEM INSTALLED UNDER THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC FACILITIES BECOME AVAILABLE. I FULLY UNDERSTAND THE
FEE CONNECTED WITH THE FILING OF THIS PERC TEST APPLICATION IS NON-REFUNDABLE UNDER ANY CIRCUMSTANCES. I ALSO AGREE TO
COMPLY WITH ALL M.O.S.H.A. REQUIREMENTS IN TESTING THIS LOT. Oak Hill Properties, LLC
Kevin B. Rogers
(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

DISAPPROVED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____

REASONS FOR REJECTION OR HOLDING _____

PERCOLATION TEST PLAT/PRELIMINARY PLAT - TITLE OR I.D. # _____ DATE _____

SITE DEVELOPMENT PLAN/FINAL PLAT - TITLE OR I.D. # _____ DATE _____

THIS IS NOT A PERMIT

COUNTY #

SOIL PROFILE

45e

bright
orange
+ yellow
mottled
silm

5.0

orange
brown
silm

9.0

dull
gray
silm
10%
gray Rv
H₂O? dry

12.0

46e

bright
red
silm

4.0

red
brn
silm

6.0

mottled
w/ zones
of depletion
from
H₂O - no
H₂O @
time of
test

12.0

46f

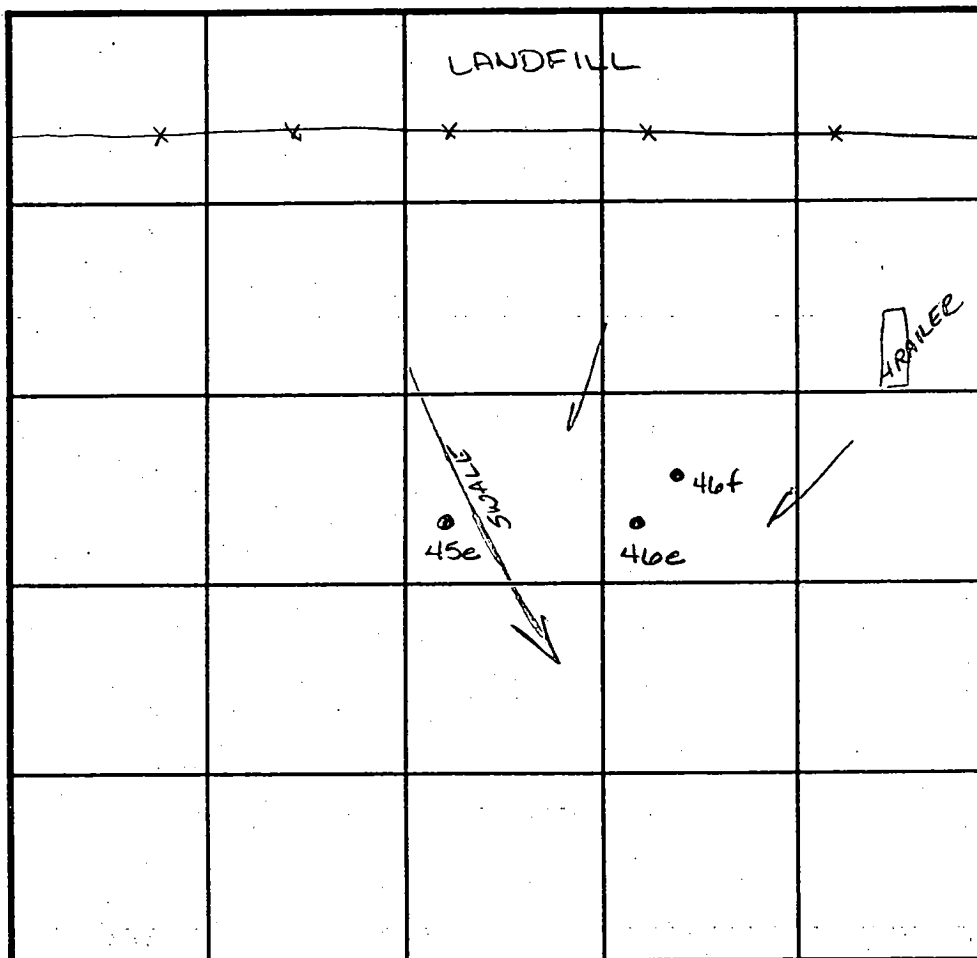
no H₂O
present

Insufficient
depth
for wet
seas
eval
dry to
11.0

LANDFILL

SOIL PROFILE

0'



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
2-7-99	45e	4.0 11.2.0	2:37	2:38	2:38	2:40	2min
	46e	Insufficient depth to	H ₂ O see profile				F
	46f	Not tested -	see profile				F

REMARKS

TYPE OF SOIL

TESTED BY Amy McAllister

ALSO PRESENT Ketterman

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME

TRENCH WIDTH

INLET DEPTH

MAXIMUM BOTTOM DEPTH

SQ. FT/BEDROOM

APPLICATION

PERCOLATION TESTING

A 511435

P _____

HOWARD COUNTY HEALTH DEPARTMENT

BUREAU OF ENVIRONMENTAL HEALTH

3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 313-2640

DISTRICT _____

DATE 2/24/99

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

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PROPERTY LOCATION:

SUBDIVISION Sand Hill Property LOT NO. 1 though 43143142

ROAD AND DESCRIPTION East side intersection of Sand Hill Road and Mt. View Road

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SIZE OF LOT 40,000 to 60,000 S.F. TYPE BLDG. Single Family Dwelling
(SINGLE FAMILY DWELLING OR COMMERCIAL)

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COMPLY WITH ALL M.O.S.H.A. REQUIREMENTS IN TESTING THIS LOT. Oak Hill Properties, LLC
Kevin B. Rogers
(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

DISAPPROVED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____

REASONS FOR REJECTION OR HOLDING _____

PERCOLATION TEST PLAT/PRELIMINARY PLAT - TITLE OR I.D. # _____ DATE _____

SITE DEVELOPMENT PLAN/FINAL PLAT - TITLE OR I.D. # _____ DATE _____

THIS IS NOT A PERMIT

COUNTY #

SOIL PROFILE
43D-48A

0' topsoil

0' orange yellow silm

4.0' 1gt tan orange salm micaceous 30-40% shale @ 8.0'

48D

like 43D-48A visual to 11.0

43C-48B

like 48C visual to 11.5

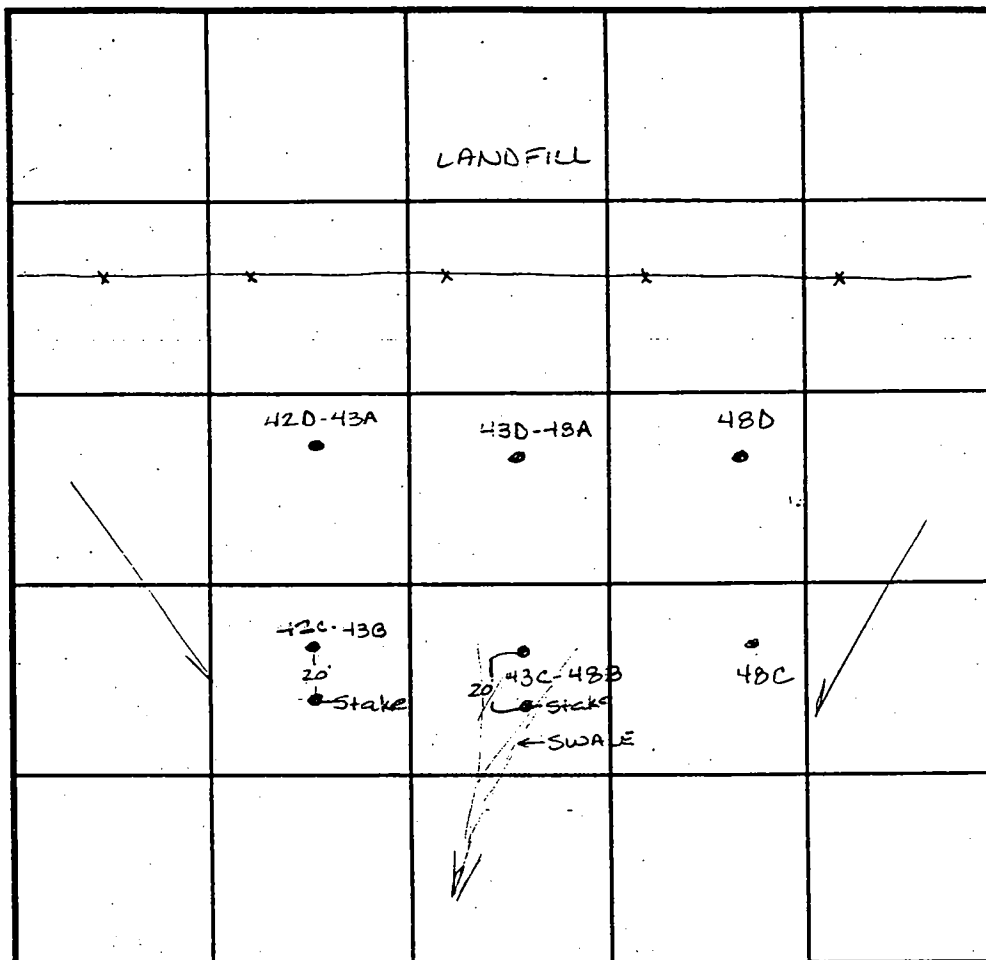
48C

dark red brn silm

4.5' 1gt or tan salm 15% Ry

11.0

LANDFILL



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

SOIL PROFILE

0' 42C-43B

orange brown silm

3.0' 1gt tan salm micaceous some orange silm pockets 10% Rock

42D-43A

3.0' dark red or silm

dark or salm 20% shale micaceous

12.0

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
4-7-99	43D-48A	3.5 VII.0	10:21	10:30	10:30	10:41	11min ✓
		7 VII.0	10:20	10:22	10:22	10:24	2min ✓
	48D	Visual to 11.0	- see profile -				OK ✓
	48C	5.0 VII.0	10:33	10:35	10:35	10:33	3min ✓
	43C-48B	4.5 VII.5	10:43	10:44	10:44	10:46	2min ✓
	42C-43B	4.5 VII.5	10:48	10:50	10:50	10:52	2min
	42D-43A	Visual to 12.0	- see profile -				OK

REMARKS

TYPE OF SOIL

TESTED BY Amy McMillen

ALSO PRESENT Ketterman

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME

TRENCH WIDTH

INLET DEPTH

MAXIMUM BOTTOM DEPTH

SQ. FT./BEDROOM

SHEET 3 OF 6

CHB2 (P)

01B2

MIB2
(P)
REANU

20' OVER DRAINAGE EASEMENT

MIB2

10-150 140 CREDIT

9-892' TO PLANT
TYPE 'A'

DRIVE

41

42

Preservation Parcel

LAND FILL
AL NOTE NO. 16
30' USE-IN-COMMON
INGRESS & EGRESS
EASEMENT FOR LOTS
11 THROUGH 14 AND ACCESS
EASEMENT TO
ADJACENT PROPERTY

SP.00.02
2/2/00

~~RC-DEO~~

 CHBr_2

8-5

590

A diagram of a Z-shaped beam cross-section. The top flange has a width of 100 mm and a thickness of 10 mm. The web has a height of 100 mm and a thickness of 10 mm. The bottom flange has a width of 100 mm and a thickness of 10 mm. The total height of the section is 120 mm.

575
580

575 580

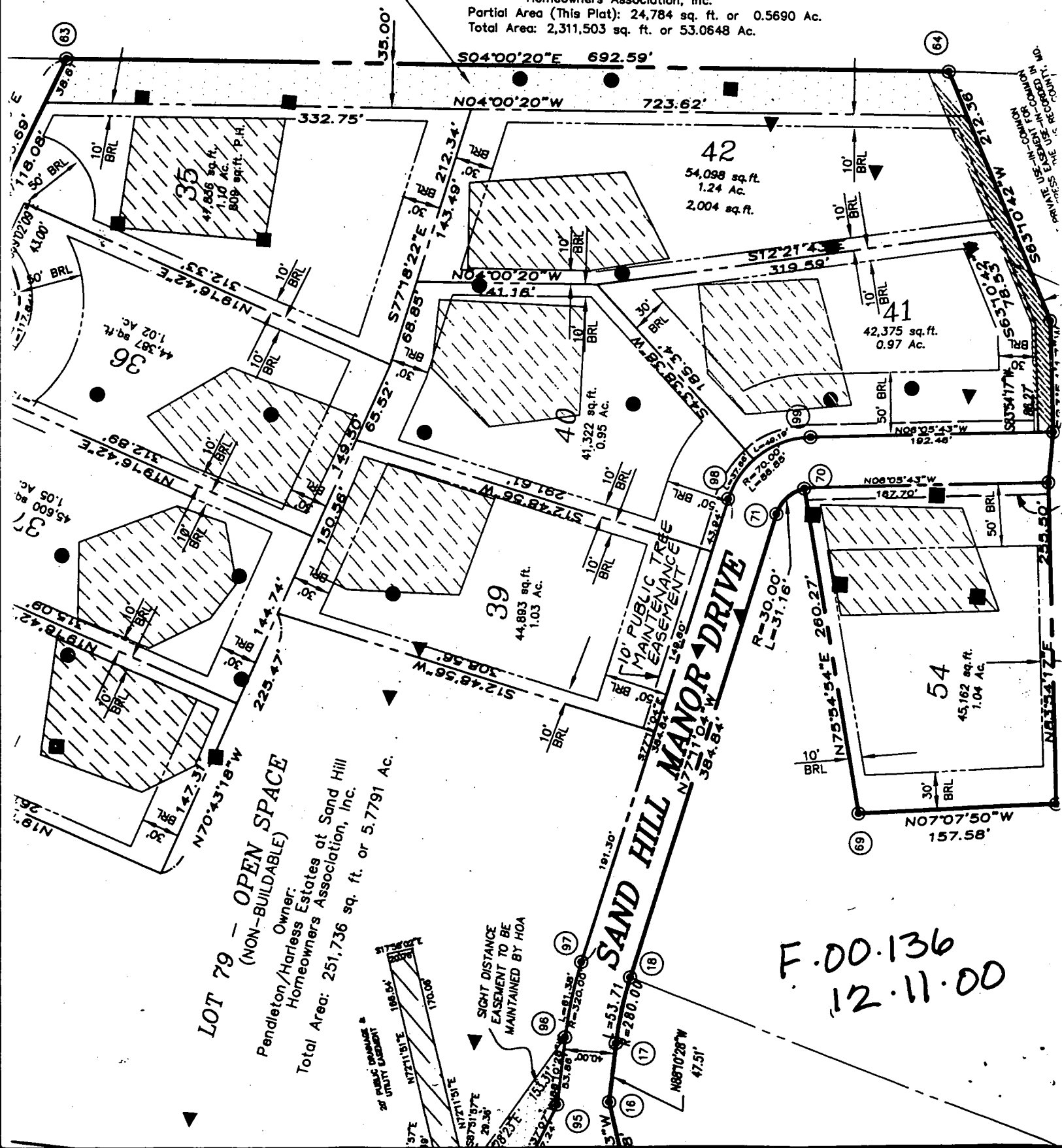
585

590

PARCELS 11, 23, 54,
220, 253, 88 & 103
ZONED: RC-DEO

Owner: Oak Hill Properties LLC

Easement Holders: Howard County, MD. &
Pendleton/Harless Estates at Sand Hill
Homeowners Association, Inc.
Partial Area (This Plat): 24,784 sq. ft. or 0.5690 Ac.
Total Area: 2,311,503 sq. ft. or 53.0648 Ac.



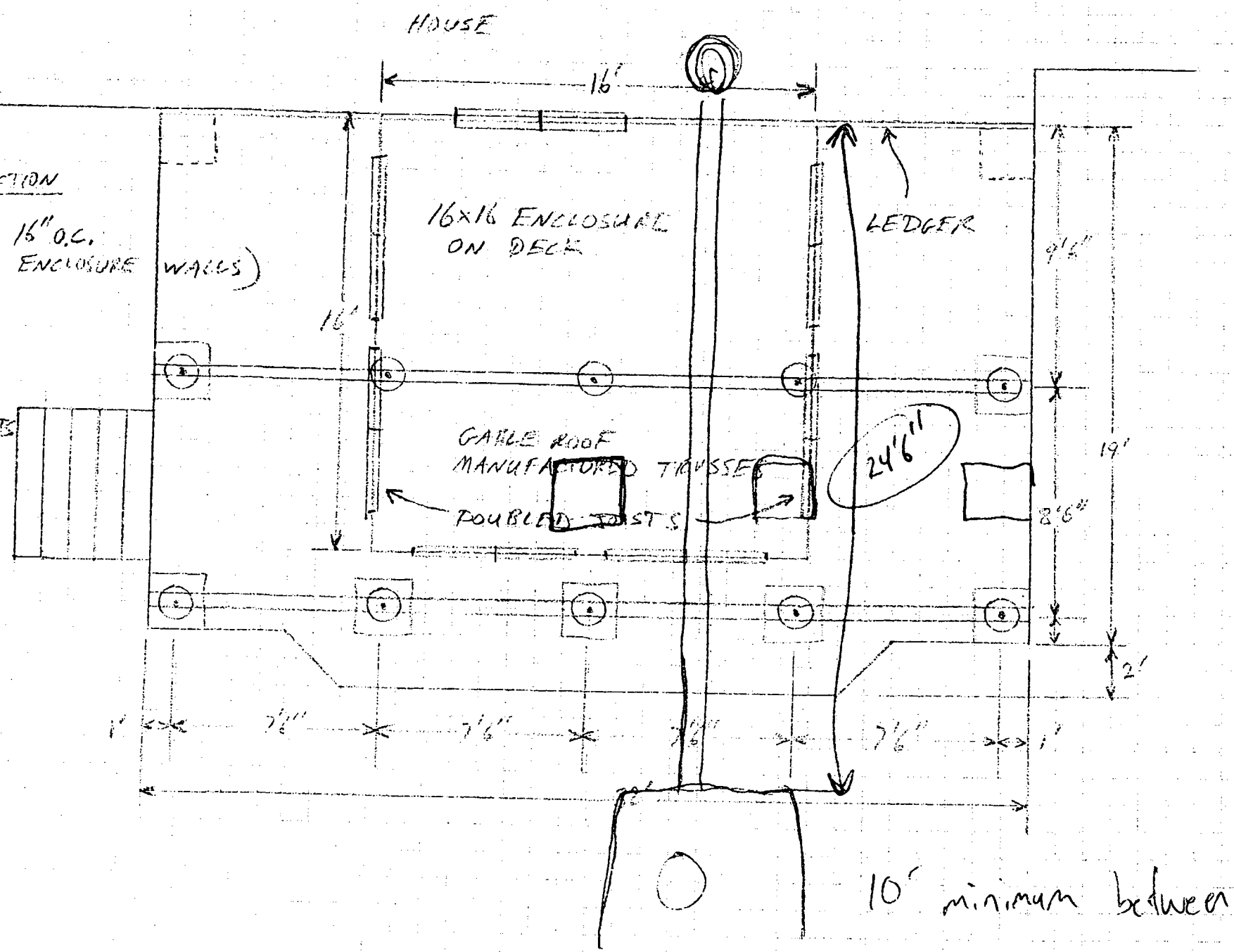
DECK CONSTRUCTION

2x8 JOISTS 16" O.C.
(DOUBLED UNDER ENCLOSURE WALLS)

2-2x12 BEAMS

6x6 POSTS

BRICK AROUND POSTS



HOUSE

16'

16x16 ENCLOSURE
ON DECK

LEDGER

16'

GABLE ROOF
MANUFACTURED TRUSSES

DOUBLED JOISTS

24'6"

9'6"

19'

8'6"

2'

7'6"

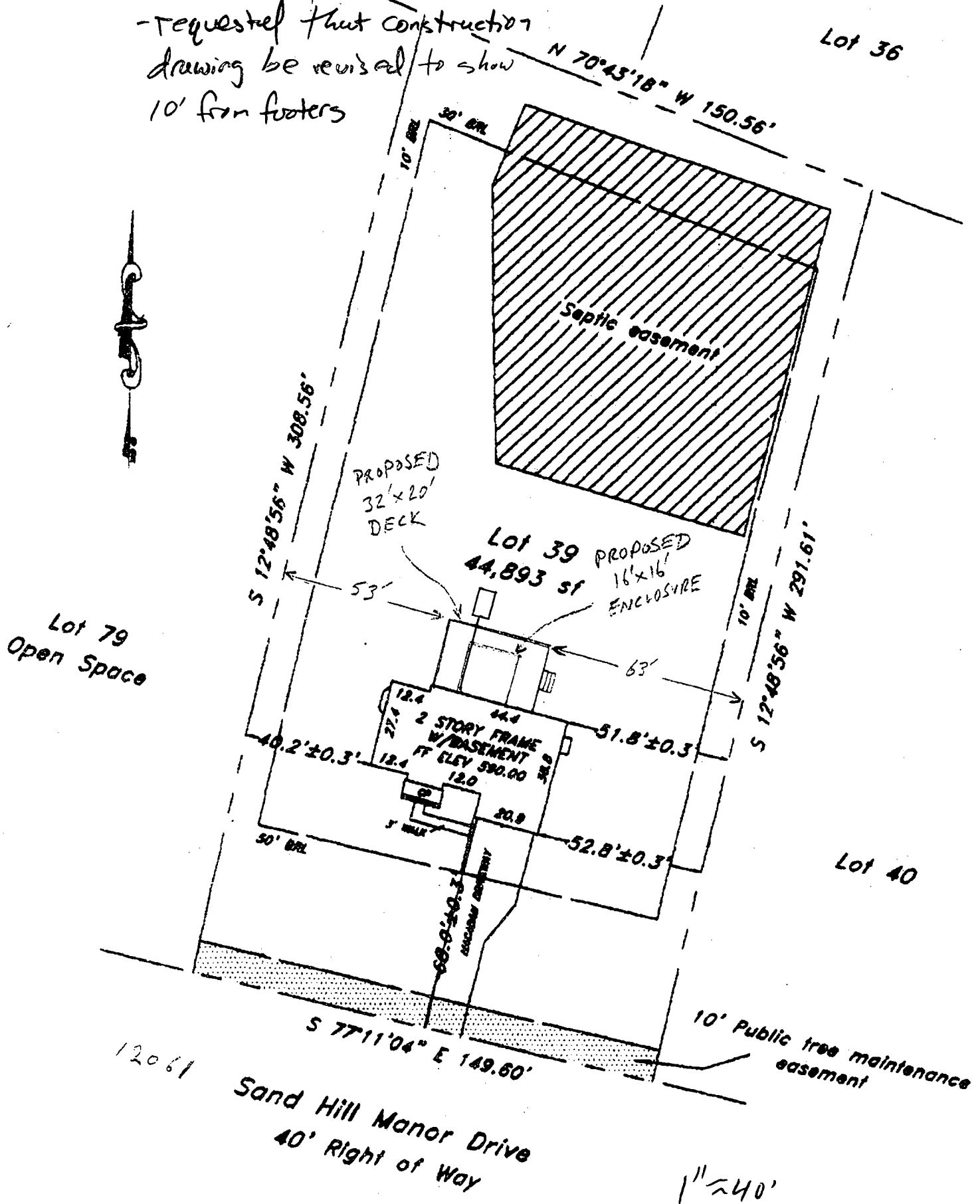
7'6"

7'6"

7'6"

10' minimum between

8/1/02 JB
 -informed Mr. Fuder that footers must
 be 10' from tank &
 -requested that construction
 drawing be revised to show
 10' from footers



3-13-02

BP00140671

OK proposed
deck **KN**



Lot 79
Open Space

