

LAYOUT 4/26/02 PM INSP 4 8/16/02 11:00
 INSP 2 4/29/02 cancelled INSP 5 _____
 INSP 3 4/30/02 PM INSP 6 _____

ISSUE DATE: 4/22/2002

P 516944

APPROVAL DATE: 8/16/02

A 511445-F

PERMIT
INDEXED

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

03-335194

Fogles Septic Clean, Inc IS PERMITTED TO INSTALL ALTER

ADDRESS: 580 Obrecht Road PHONE NUMBER: 410-795-5670

SUBDIVISION: The Estates @ Sandhill LOT NUMBER: 78

ADDRESS: 12000 Margaret Court PROPERTY OWNER: ~~Oak Hill Property~~ CHRISTOPHER KIM

SEPTIC TANK CAPACITY (GALLONS): 1250 OUTLET BAFFLE FILTER REQUIRED

PUMP CHAMBER CAPACITY (GALLONS): 1250 COMPARTMENTED TANK REQUIRED

NUMBER OF BEDROOMS: 4

SQUARE FEET PER BEDROOM: 180

LINEAR FEET OF TRENCH REQUIRED: 240

| | |
|-----------|---|
| TRENCHES: | Trench to be 3.0 feet wide. Inlet 2.0 feet below original grade. Bottom maximum depth 4.0 feet below original grade. Effective area begins at 2.0 feet below original grade. 2.0 feet of stone below distribution pipe. |
| LOCATION: | Facing the lot from Margaret Court, place the distribution box 45 feet from the left lot line and 100 feet from the rear lot line. Run trenches on coutour. |
| NOTES: | Gravity basement service is proposed. Well on lot not a concern; public water service provided. |

PLANS APPROVED: Steven Krieg 4/22/02 OK (BB) DATE: 2/12/2002

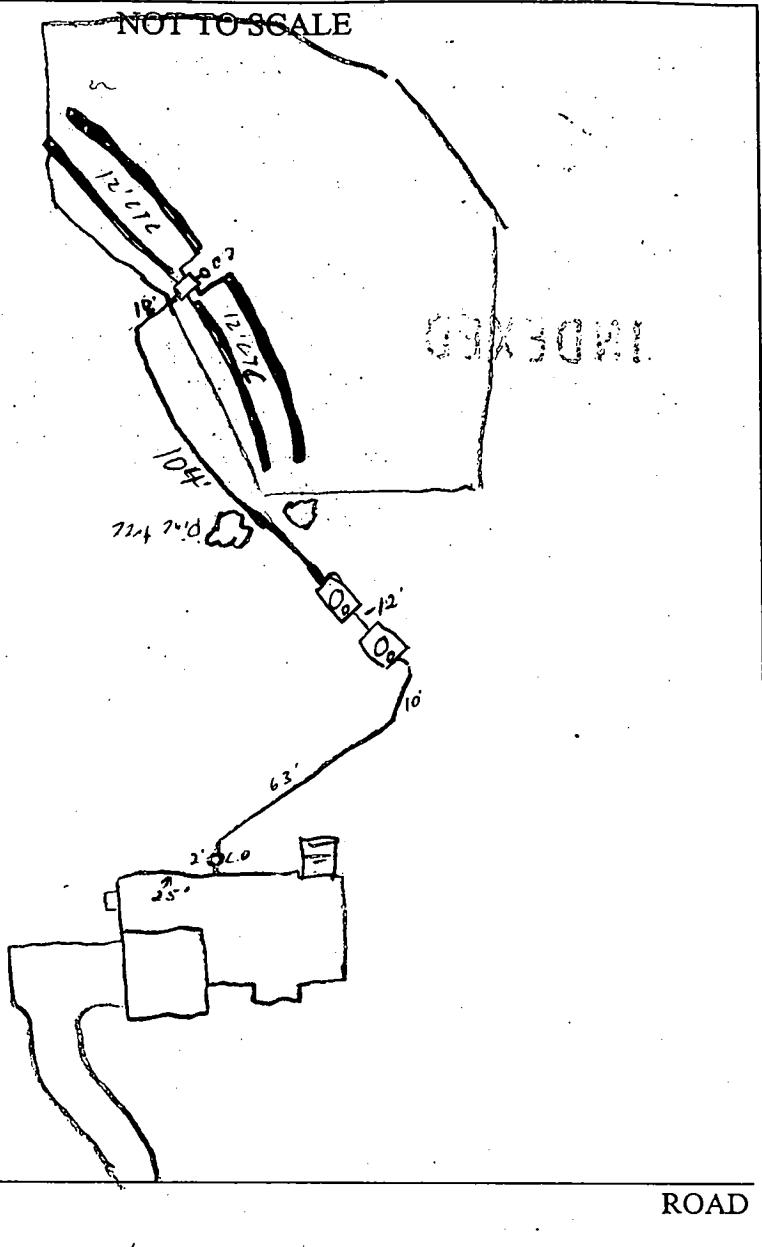
- NOTE: PERMIT VOID AFTER 2 YEARS
- NOTE: CONTRACTOR RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS
- NOTE: WATERTIGHT SEPTIC TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE 100 FEET FROM ANY WATER WELL
- NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS UNLESS SPECIFICALLY AUTHORIZED

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 CALL 410-313-2640 FOR INSPECTION OF SEPTIC SYSTEM

BUILDING PERMIT SIGNED AND RETURNED

- 1/9/2003 B00139917 INGROUND POOL
- 2/3/2003 B0040168 DECK
- 2/12/2003 B00140297 FINISH BASEMENT

A511445-F



| TRENCH/DRAINFIELD DATA | | |
|-------------------------|-------|-------------------------------------|
| WIDTH | INLET | BOTTOM |
| 3' | 2' | 4' |
| NUMBER OF TRENCHES | | 4 |
| TOTAL LENGTH | | 240 |
| ABSORPTION AREA | | 720 sq |
| DISTRIBUTION BOX LEVEL | | <input checked="" type="checkbox"/> |
| DISTRIBUTION BOX BAFFLE | | <input checked="" type="checkbox"/> |
| DISTRIBUTION BOX PORT | | <input type="checkbox"/> |

| SEPTIC TANK DATA | |
|---------------------|-------------------------------------|
| SEPTIC TANK 1 LEVEL | YES |
| CAPACITY | 1250 GAL |
| SEAM LOC | TOP |
| TANK LID DEPTH | 2' |
| BAFFLES | yes |
| BAFFLE FILTER | — |
| MANHOLE LOC | Center |
| 6" PORT LOC | Front |
| WATERTIGHT TEST | — |
| SEPTIC TANK 2 LEVEL | <input checked="" type="checkbox"/> |
| CAPACITY | 1250 GAL |
| SEAM LOC | TOP |
| TANK LID DEPTH | 3" |
| BAFFLES | yes |
| BAFFLE FILTER | — |
| MANHOLE LOC | Center |
| 6" PORT LOC | Front |
| WATERTIGHT TEST | — |

PRE-CONSTRUCTION 4/26/02 House conn. change, layout per BP. (CS)

INSTALLATION 4/30/02 OK to cover all work. Pump & Alarm tests needed (CS) 8/16/02 Alarm test passed (KN)

FINAL INSPECTOR Karen Moran DATE OF APPROVAL 8/16/02

BUILDING PERMIT DIVISION
 AND RETURNED



HOWARD COUNTY HEALTH DEPARTMENT

Bureau of Environmental Health
3525-H Ellicott Mills Drive, Ellicott City, Maryland 21043-4544

(410) 313-2640 Fax (410) 313-2648

TDD (410) 313-2323 Toll Free 1-877-4MD-DHMH

Penny E. Borenstein, M.D., M.P.H., Howard County Health Officer

August 19, 2002

Oak Hill Properties, LLC
107 Loudon Street, S. E.
Leesburg, Virginia 20175-3106

RE: The Estates @ Sandhill, Lot # 78
12000 Margaret Court
BP# B00133853
PUBLIC WATER

Dear Sir/Madam:

This is to advise you that the septic system for the above referenced property has been installed and inspected. **Final approval of the septic system was granted on 8/16/2002.**

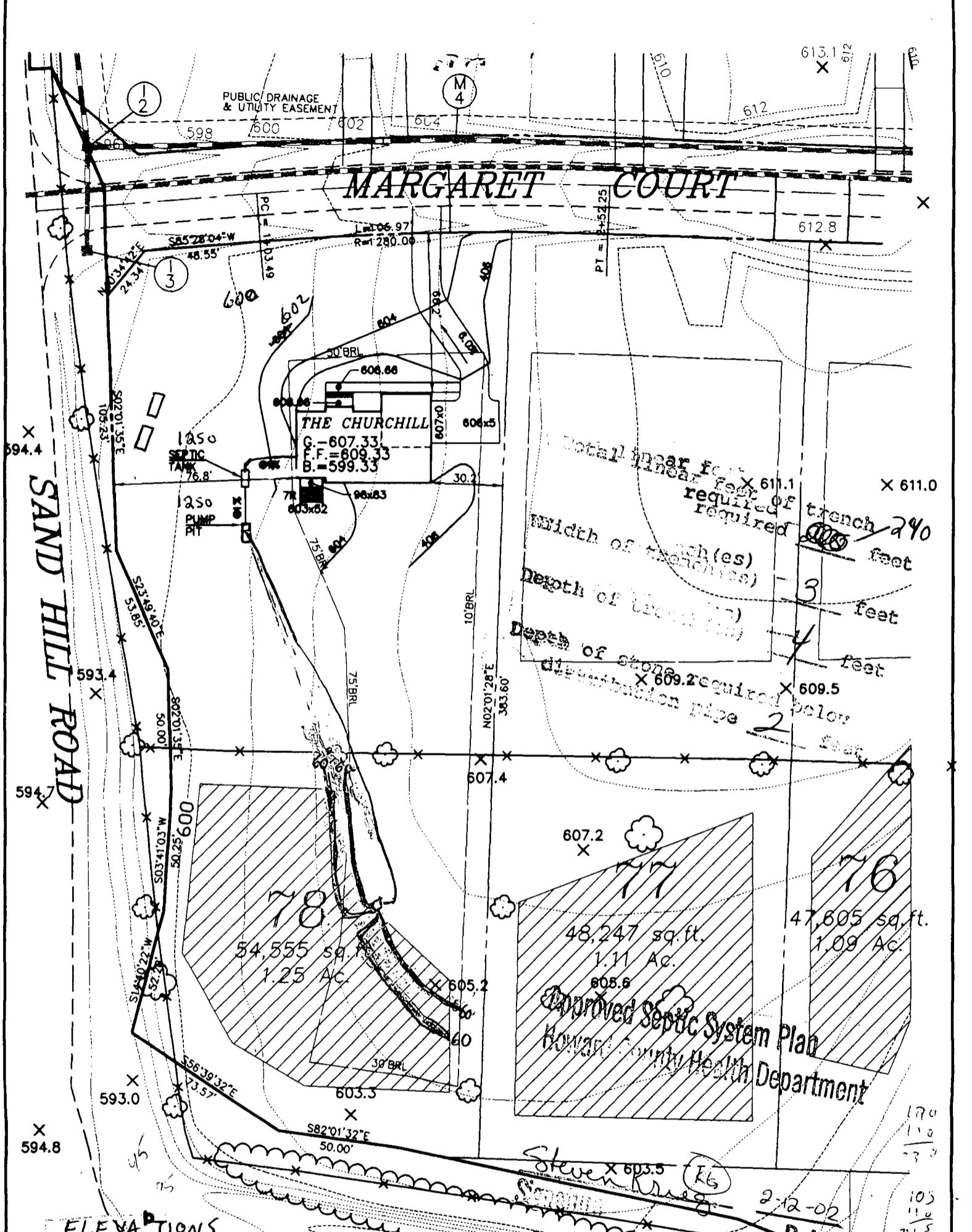
The property is served by public water and is therefore exempt from the Health Department water sampling requirements.

By issuance of this letter, this office recommends release of the Use and Occupancy permit for the referenced property.

Approving Authority

Steven R. Krieg
Registered Environmental Sanitarian
Well & Septic Program

sjn
cc: Building Inspector's Office
File



Total linear feet required of trench $\times 611.1$
 Width of trench(es) required $\times 290$ feet
 Depth of trench(es) $\times 3$ feet
 Depth of stone distribution pipe $\times 4$ feet
 Depth of stone distribution pipe required below $\times 609.5$
 $\times 609.2$ required below $\times 609.5$ feet

54,555 sq. ft. 1.25 Ac.
 48,247 sq. ft. 1.11 Ac.
 47,605 sq. ft. 1.09 Ac.

Approved Septic System Plan
 Howard County Health Department

ELEVATIONS

- FIRST FLOOR EL = 609.33
- INV. OUT OF HOUSE = 597.33
- INV. IN SEPTIC TANK = 597.13
- INV. OUT OF SEPTIC TANK = 596.88
- EXIST. EL. AT SEPTIC TANK = 601.50
- PROP. EL. AT SEPTIC TANK = 601.00
- INV. IN PUMP PIT = 596.73
- EXIST. EL. AT DIST. BOX = 605.00
- INV. IN DIST. BOX = 602.00
- TOP OF ST = 598.13
- TOP OF PT = 597.73

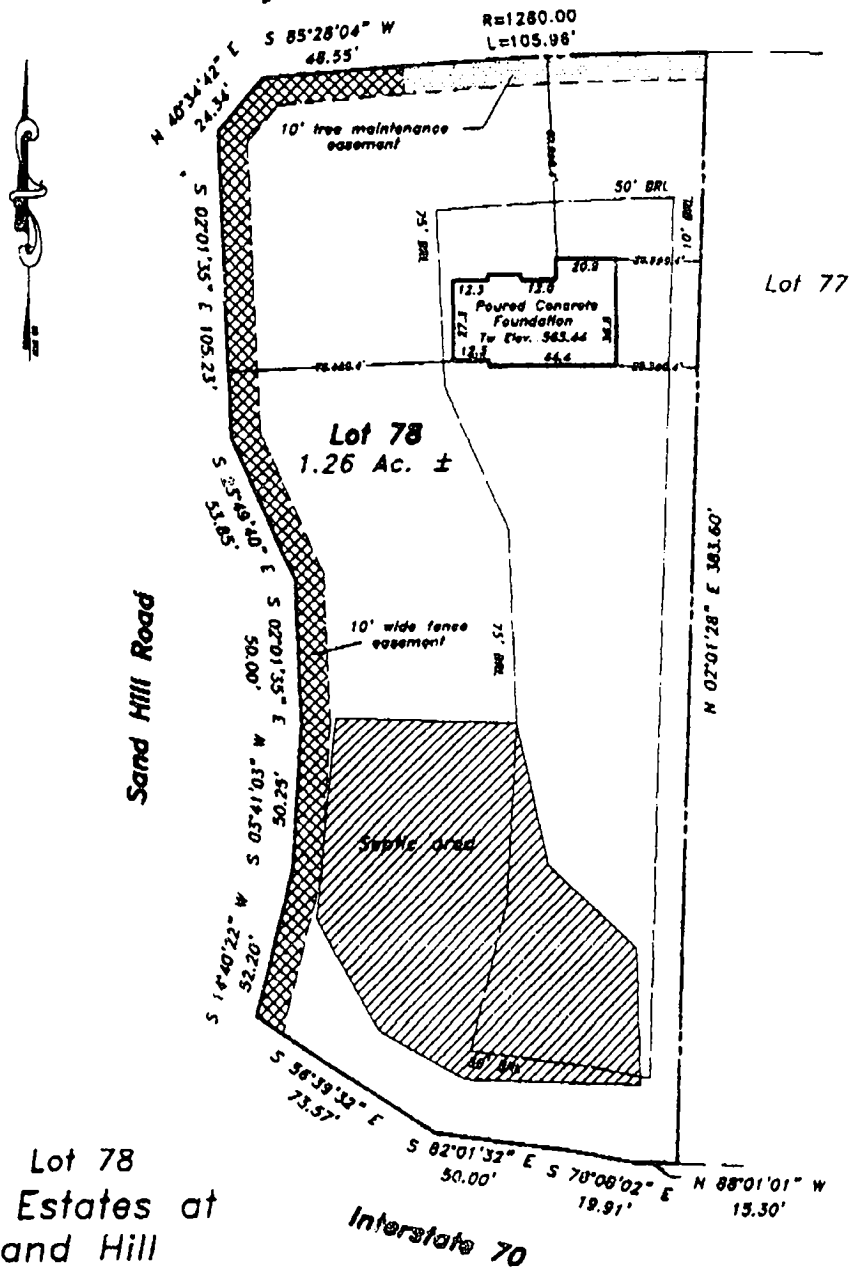
G.P. # 02-14
 PLAT # 14580-14585



BASEMENT SERVICE BY GRAVITY IS PROPOSED

| | | | |
|--|---------------|-------------------------|---|
| THE ESTATES AT SAND HILL | | | MILDENBERG, BOENDER & ASSOC., INC. <small>Engineers Planners Surveyors</small> |
| PLOT PLAN LOT # 78 12000 MARGARET COURT | | | |
| ELECTION DISTRICT: 3 | TAX MAP: 16 | HOWARD COUNTY, MARYLAND | 5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042 (410) 997-0296 Ball. (301) 621-5521 Wash. (410) 997-0298 Fax. |
| DRAWN BY: M.M.P. | SCALE: 1"=50' | DATE: JANUARY 3, 2002 | |

Margaret Court
(40' Right-of-way)



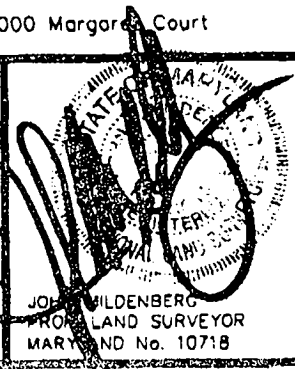
4/22/02
House moved
slightly farther
from court.
No effect on
septic system
BB

Lot 78
The Estates at
Sand Hill
Plat No. 14585
Election district No. 3
Howard County, Maryland

Address No.: 12000 Margaret Court

**MILDENBERG
BOENDER, & ASSOC., INC.**

Engineers Planners Surveyors
8072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0298 Ball. (301) 681-8821 Wash. (410) 997-0290 Fax.



| | | | |
|--------------------------|--------------------|-------|-------|
| FOUNDATION | DATE: 03/04/02 | FINAL | DATE: |
| DRAWN BY: JLM | SCALE: 1" = 50' | | |
| PROJECT NO.: 2000-064 | LOCATION DRAWING | | |

JOE MILDENBERG
PROFESSIONAL LAND SURVEYOR
MARYLAND No. 10718

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; Clyse 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:

IBDIVISION 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
91d-924

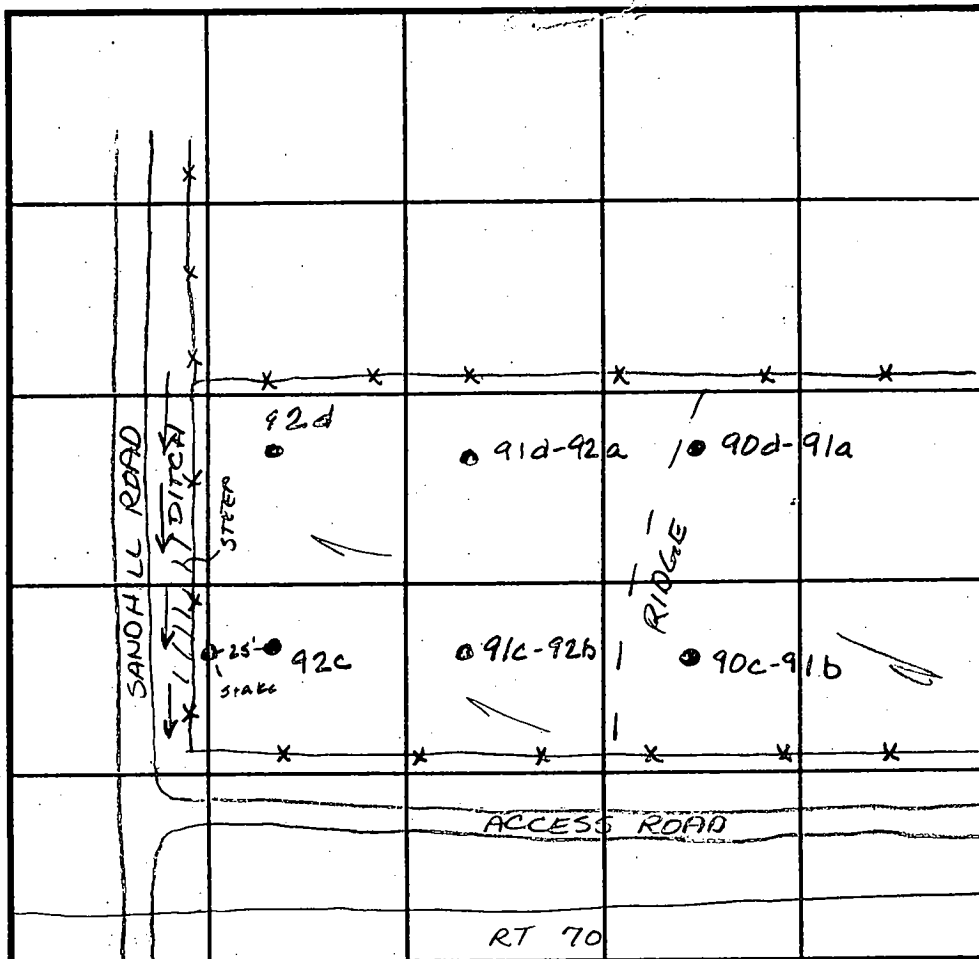
orange brown
SiCLM
1gt
grey
salm
micaceous
20%
saprolite,
shale
refusal
⊙
9.0'

91c-926
92d

like
91d-92a
but
no
hard
bottom

92c

orange
brown
SiCLM
beigh
salm
micaceous
<10%
saprolite/
shale
mix



SOIL PROFILE

red
orange
SiCLM
3.0
dark
orange
brown
salm
micaceous
10%
mica
saprolite

90c-91b

dk brn
SiCLM
bright red
SiLM
2.5
dark red
orange
salm
micaceous
15% Rx
5.5
12.0

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

| DATE | TEST NO. | DEPTH | PRE-WET | | TEST - 1" DROP | | TIME |
|--------|----------|--------------|-----------------------|-------|----------------|-------|------|
| | | | START | STOP | START | STOP | |
| 5-5-99 | 91d-92a | 3.5 √9.0 | 12:10 ³⁰ | 12:12 | 12:12 | 12:14 | 2min |
| | | 6.0 √9.0 | 12:10 | 12:11 | 12:11 | 12:13 | 2min |
| | 92d | Visual | to 12.0 see profile | | — | | OK |
| | 92c | 2.5 √12.0 | 12:20 | 12:21 | 12:21 | 12:23 | 2min |
| | 91c-92b | 3.0 √12.0 | 12:25 | 12:26 | 12:26 | 12:28 | 2min |
| | 90d-91a | Visual | to 12.0 - see profile | | — | | OK |
| | 90c-91b | 3.0 √12.0 | 12:29 | 12:33 | 12:33 | 12:38 | 5min |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

REMARKS _____

TYPE OF SOIL _____

TESTED BY Amy McMillen ALSO PRESENT _____

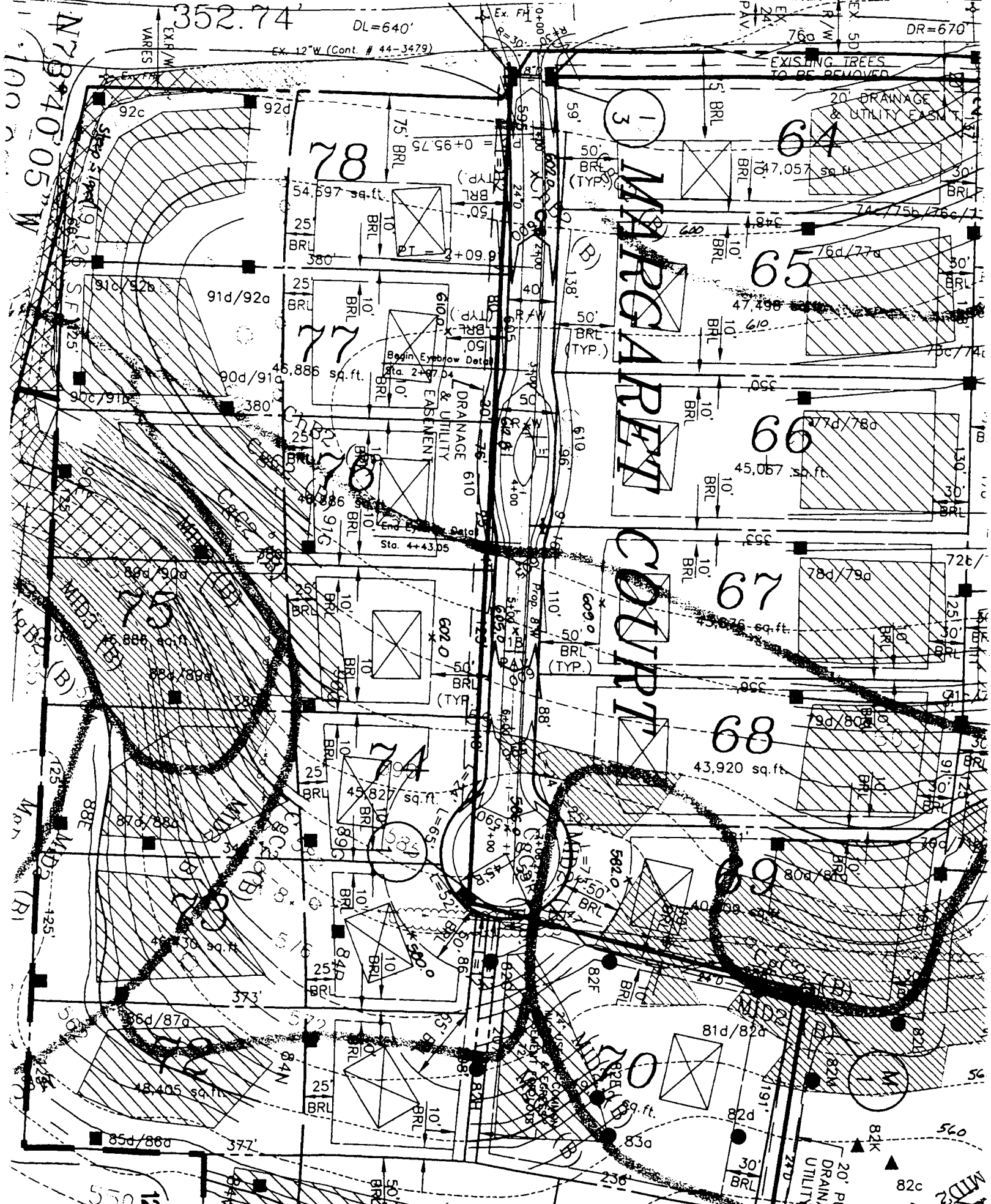
TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____ TRENCH WIDTH _____

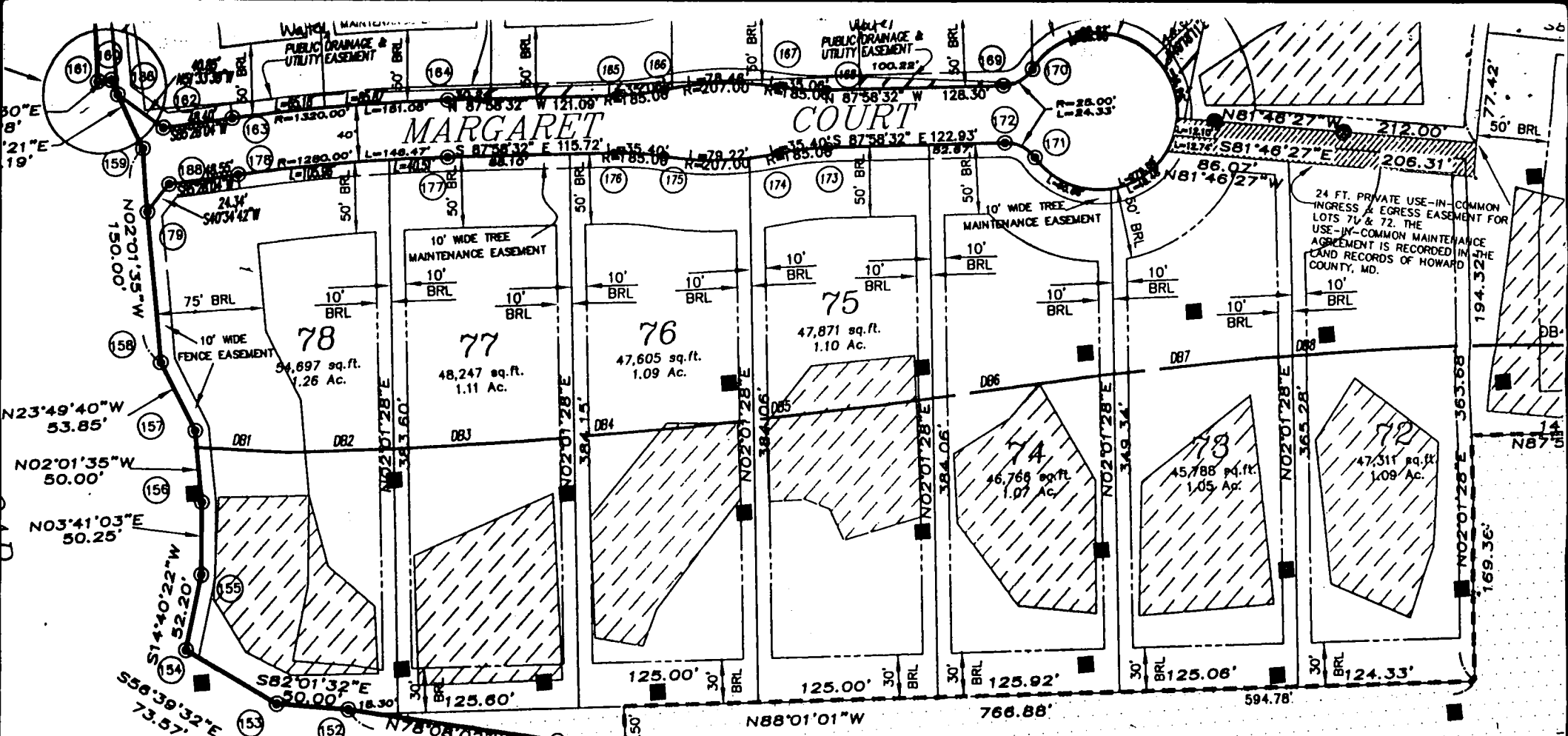
INLET DEPTH _____ MAXIMUM BOTTOM DEPTH _____ SQ. FT/BEDROOM _____

TYF
N00°37' F.00.02

Approved
2/2/00

(MINOR) CL
N 00°26'54" W





| PT# | NORTH | EAST |
|-----|-----------|------------|
| 20 | 598122.11 | 1333776.11 |
| 21 | 598175.23 | 1333357.99 |
| 22 | 598185.40 | 1333227.79 |
| 23 | 598181.74 | 1333225.94 |
| 24 | 598180.41 | 1332986.90 |
| 25 | 598214.40 | 1332818.78 |
| 26 | 598233.15 | 1332288.32 |
| 27 | 598225.40 | 1331985.84 |
| 126 | 597202.82 | 1333714.09 |
| 147 | 597224.02 | 1333628.21 |
| 148 | 597293.38 | 1333131.04 |
| 149 | 597297.35 | 1333030.62 |
| 150 | 597380.59 | 1332436.42 |
| 151 | 597436.07 | 1332292.73 |
| 152 | 597486.36 | 1332148.54 |
| 153 | 597473.30 | 1332099.02 |
| 154 | 597513.74 | 1332037.56 |
| 155 | 597564.24 | 1332050.78 |
| 156 | 597614.38 | 1332054.01 |
| 157 | 597664.35 | 1332052.24 |
| 158 | 597713.61 | 1332030.49 |
| 159 | 597863.52 | 1332025.18 |
| 160 | 597912.92 | 1332002.92 |
| 161 | 597912.48 | 1331993.65 |
| 162 | 597877.15 | 1332039.59 |
| 163 | 597880.98 | 1332087.84 |
| 164 | 597864.28 | 1332238.77 |
| 165 | 597880.17 | 1332355.13 |
| 166 | 597882.22 | 1332389.89 |
| 167 | 597879.49 | 1332468.02 |

| FP# | Distance | Bearing |
|------|----------|-------------|
| FP1 | 39.36 | N27°02'16"E |
| FP2 | 41.00 | S58°52'45"W |
| FP3 | 49.00 | S10°43'19"W |
| FP4 | 141.38 | S22°50'43"W |
| FP5 | 67.31 | S43°24'25"W |
| FP6 | 137.83 | S01°19'36"W |
| FP7 | 46.50 | N50°02'00"E |
| FP8 | 82.53 | S13°29'28"E |
| FP9 | 65.05 | S54°43'49"W |
| FP10 | 81.82 | S15°05'02"W |
| FP11 | 74.82 | S03°51'48"W |
| FP12 | 118.22 | S20°48'28"W |
| FP13 | 29.82 | S60°45'54"W |
| FP14 | 212.99 | N82°01'32"W |
| FP15 | 51.71 | N08°52'09"E |
| FP16 | 80.89 | N36°23'23"E |
| FP17 | 48.89 | S44°47'27"W |
| FP18 | 41.59 | S12°41'50"W |

| SB# | Distance | Bearing |
|------|----------|-------------|
| SB1 | 37.82 | N10°21'43"E |
| SB2 | 27.98 | N39°18'34"E |
| SB3 | 122.45 | N25°37'34"E |
| SB4 | 26.52 | N51°15'16"E |
| SB5 | 148.71 | N08°40'13"E |
| SB6 | 54.57 | N85°08'49"E |
| SB7 | 55.45 | S47°50'09"E |
| SB8 | 14.17 | S80°39'13"E |
| SB10 | 28.04 | S05°15'27"E |
| SB11 | 91.37 | N89°08'32"E |
| SB12 | 93.22 | N27°24'33"W |
| SB13 | 36.27 | N41°39'14"E |
| SB14 | 58.93 | N03°22'08"E |
| SB15 | 68.63 | N32°38'16"E |

| WT# | Distance | Bearing | WT# | Distance | Bearing |
|-----|----------|-------------|-----|----------|-------------|
| W1 | 33.69 | S65°17'17"W | W20 | 82.71 | S01°50'40"W |
| W2 | 146.09 | S11°20'13"W | W21 | 64.58 | S81°57'33"W |
| W3 | 150.20 | S31°00'07"W | W22 | 75.47 | S25°27'52"W |
| W4 | 47.28 | S52°24'07"W | W23 | 16.68 | N77°22'03"W |
| W5 | 148.47 | S03°22'30"E | W24 | 104.64 | N23°23'30"E |
| W6 | 41.97 | S86°39'15"W | W25 | 98.15 | N41°46'51"W |
| W7 | 65.78 | S08°51'13"E | W26 | 132.58 | N43°57'45"W |
| WR | 86.90 | S77°10'10"E | W27 | 90.37 | N48°02'38"E |

| Line | Length | Bearing |
|------|--------|-------------|
| DB1 | 65.54 | N83°17'19"W |
| DB2 | 78.45 | N88°22'48"W |
| DB3 | 85.25 | N89°46'50"W |
| DB4 | 113.96 | S88°41'11"W |
| DB5 | 133.75 | S87°01'38"W |
| DB6 | 158.44 | S85°48'04"W |
| DB7 | 106.13 | S87°23'08"W |
| DB8 | 75.84 | S88°29'12"W |

| FROM | TO |
|------|-----|
| 163 | 165 |
| 169 | 170 |
| 170 | 171 |

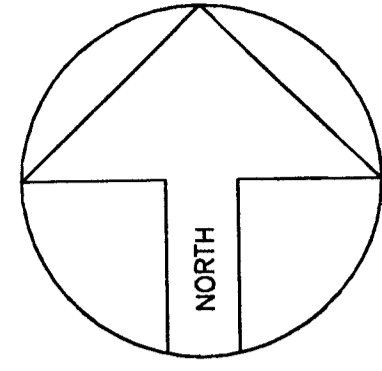
F.00.137
12.11.00

I-70
(PRINCIPAL AR)

33.4101 Ac.

| | |
|-----------|-----|
| SETBACKS: | |
| REAR PL. | 10' |
| SIDE PL. | 10' |
| HOUSE | 0' |
| SEPTIC | 20' |
| WELL | N/A |

PUBLIC WATER &
PRIVATE SEPTIC



LAYOUT DETAIL
1/8"=1'-0"

GENERAL NOTES

- 1) 200 FT. OF ELECTRIC IN CONTRACT.
- 2) POOL AREA TO BE FENCED BY OWNER. GATES TO BE SELF CLOSING & LATCHING PER COUNTY CODES.
- 3) STEPS TO HAVE 12" +/- TREADS & EQ. RISERS, TOP TREAD TO BE 18".
- 4) DO NOT TURN POOL LIGHTS ON WHEN POOL IS EMPTY.
- 5) DO NOT USE BLACK RUBBER HOSE WHEN FILLING POOL. IT WILL MARK PLASTER & COPING.
- 6) WET DOWN CONCRETE SHELL AT LEAST TWICE DAILY FOR 7 DAYS WHEN TEMP. EXCEEDS 70 DEGREES.

SPECIAL NOTES

- EXCAVATION CREW:
- PLUMBING CREW:
- STEEL CREW:
- GUNITE CREW: ALL REBOUND TO BE PLACED IN RAMP
- COPING & TILE:
- DECK CREW:
- PLASTER CREW:

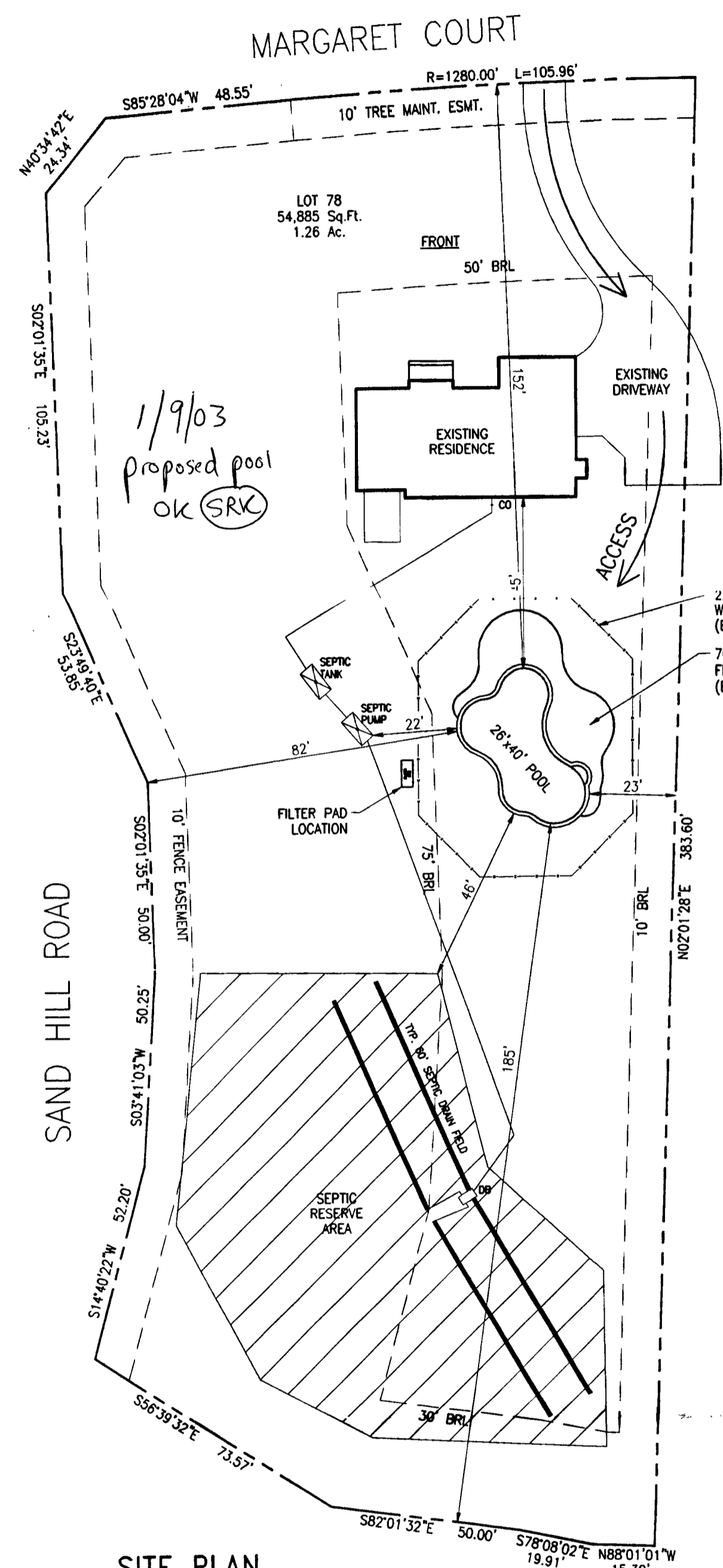
EQUIPMENT LIST

- DIRT: HAUL
TILE: TBD
COPING: STD 'SUIT SAVER'
STEPS: INCLD. STYLE: STD.
PLASTER: WHITE MARBELITE
FILTER: C&C 420 SF CART. W/1.5 HP PUMP
- SAFETY EQ: INCLD.
CLEANING EQ: INCLD.
VACUUM EQ: INCLD.
DIVING EQ: NONE
LADDERS: NONE
GRABRAILS: NONE
LIGHTS: ONE W/LENS COVERS
WATTS: 500 VOLTS: 120
HEATER: 250K BTU (NAT GAS)
SPA: NONE
LOVESEAT: 6' LONG - OUTSIDE
DECKING: NONE
POOL COVER- WINTER: NONE
SOLAR: NONE
AUTO: NONE
FENCE: BY OWNER
OTHER ITEMS: P.C.C. 2000 CLEANING SYSTEM
(2) 5' LONG AQUA BENCHES
MINERAL SPRINGS SYSTEM
(2) DOOR ALARMS
\$100 CHEMICAL ALLOWANCE

HOURS GRADING IN CONTRACT: ONE

POOL DATA

SIZE: 26' X 40' SHAPE: CUSTOM
AREA- POOL: 700 + LS OTHER: 12 (LS)
TOTAL Sq.Ft.: 712
PERIMETER- POOL: 116 OTHER:
GALLONAGE: 26,250



SITE PLAN

1"=30'

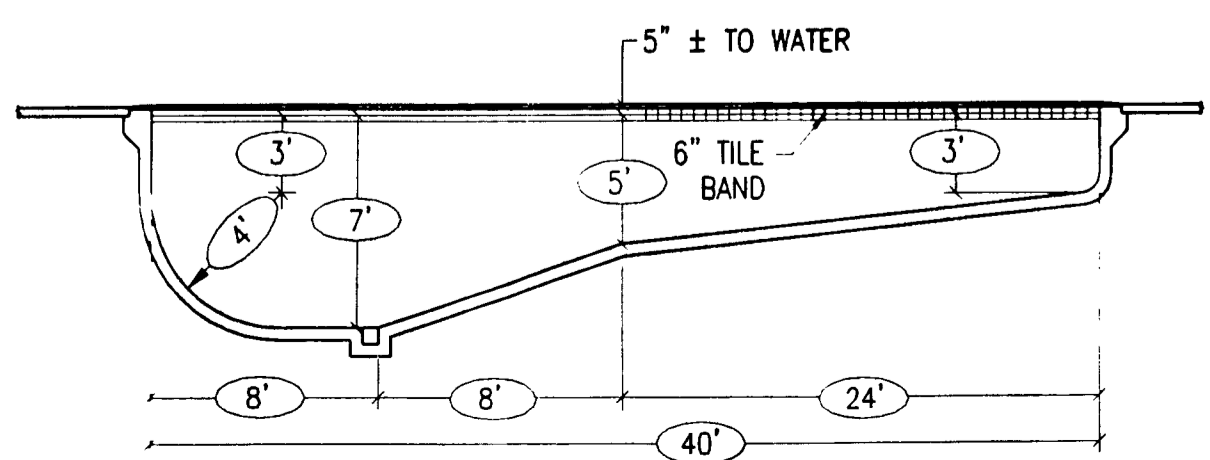
LOT 78
THE ESTATES AT SAND HILL
TAX ACCOUNT #335194
MAP 16, GRID 2, PARCEL 3
3RD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

DIRECTIONS: RT-32 WEST TO RT-29 NORTH. FOLLOW TO END AND TURN LEFT ON RT-99 WEST. FOLLOW ACROSS MARRIOTTVILLE ROAD AND CONTINUE TO A LEFT ONTO SAND HILL ROAD. GO AROUND CIRCLE TO NEXT LEFT ONTO MARGARET COURT. SITE IN ON RIGHT CORNER. 12000 MARGARET COURT.

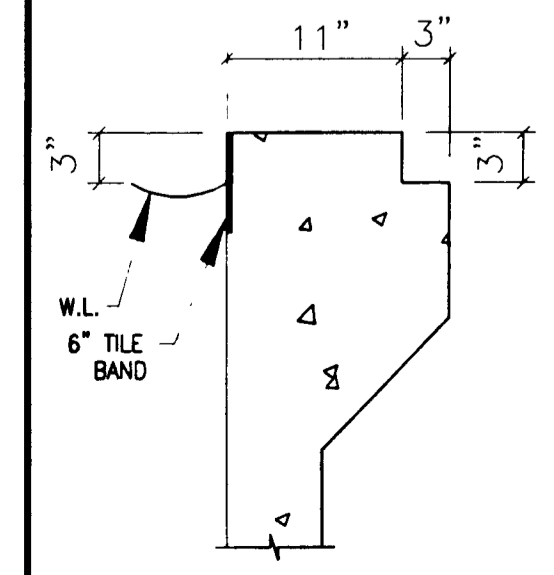
MAP BOOK:
Co.: HOWARD
MAP: 10
GRID: G1

Both Customer and Salesman agree that this drawing, access, elevation & location of all equipment and appurtenances are in agreement. Any changes from this drawing must be approved in writing by the Customer and MPI.
CHECKED BY - SALESMAN _____
CHECKED BY - CUSTOMER _____

Cross Section POOL ELEVATION:



Bond Beam



Revisions

COPING: STD. 'SUIT SAVER'

MARYLAND POOLS

9515 GERWIG LANE - SUITE 119
COLUMBIA, MARYLAND 21046
410-995-6600 BALTIMORE
301-621-3319 WASHINGTON

NAME: CHIRSTOPHER KIM
ADDRESS: 12000 MARGARET COURT
MARRIOTTVILLE, MARYLAND 21104
COUNTY: HOWARD ZONE: ONE
TELEPHONE - HOME: 410-442-2794
CELLULAR: 443-838-9865
SCALE: 1/8"=1'-0" DRAWN BY: JEK
DATE: JANUARY 2003 JOB NO: JS03-7293

KIM
12000 MORNISTVIEW MD

