



HOWARD COUNTY HEALTH DEPARTMENT

60569

DATE
3/7/17

W5

Received From

Allied Environmental Services PHONE # 301-776-8370

For

Well Permit App. 3300 NW Dandy Drive

CASH

CHECK

NO.

130109

One hundred sixty ~~two~~ Dollars

\$

160.00

Received By

[Signature]

B 1 SEQUENCE NO. (MDE USE ONLY) **49812** STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please type **50509** STATE PERMIT NUMBER **40-17-0122** fill in this form completely

B 2 DATE RECEIVED (APA) **03/07/17** OWNER INFORMATION
8 MM **07** DD **17** YY
15 Last Name **Deenigenio Lewis + Parkel** Owner **34** First Name
36 Street or RFD **3300 Danmark Drive NW** **55**
57 Town **Glenwood MD** **70** State **72** Zip **21738** **76**

B 3 LOCATION OF WELL
8 COUNTY **Howard** **21**
23 SUBDIVISION **CHOI Property** **42**
52 NEAREST TOWN **Glenwood** **71**
36 SECTION **44 48** **48 50** LOT **25**

B 4 SOURCES OF DRILLING WATER
11 PUBLIC **30**
1 Public
2
3 3/21/17 (20)
 1st bore 300' 5 to 20 gpm - 13/14 bags of grout
 2nd bore 300' 5 gpm 13/14 bags of grout
 3rd bore 120' no grout yet
 4th bore - not drilled yet
34 825 **37** DISTANCE FROM ROAD **FT**
38 ENTER FT OR MI **39**
34 TAX MAP: **14** **BLK:** **24** **PARCEL:** **106**

B 2 WELL INFORMATION
1 APPROX. PUMPING RATE (GAL. PER MIN.) **8** **12**
2 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) **14** **20**

USE FOR WATER (CIRCLE APPROPRIATE BOX)
 DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION
 FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
 INDUSTRIAL, COMMERCIAL, DEWATERING
 PUBLIC WATER SUPPLY WELL
 TEST, OBSERVATION, MONITORING
 OPEN LOOP GEOTHERMAL
 CLOSED LOOP GEOTHERMAL **4 loops**

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
13 COUNTY NAME **Howard** COUNTY NO.
 STATE SIGNATURE _____ INSERT S → **41**
 DATE ISSUED **3/15/17** **43** MM **15** DD **17** YY **48** **3/15/18** EXP. DATE
43 DON: 3/17/17 (20) DOG: 3/21/17 (20) DOY: N/A (20)

APPROXIMATE DEPTH OF WELL **300** FEET
 APPROXIMATE DIAMETER OF WELL **6** INCH NEAREST

METHOD OF DRILLING (circle one)
 BORED (or Augered) **AIR-ROTary** JETTED **ROTARY** (Hydraulic Rotary) Jetted & DRIVEN **Drive-POINT**
 AIR-PERCussion **REVerse-ROTary**

REPLACEMENT OR DEEPEINED WELLS (CIRCLE APPROPRIATE BOX)
 THIS WELL WILL NOT REPLACE AN EXISTING WELL
 THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED
 THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS
 THIS WELL WILL DEEPEIN AN EXISTING WELL
 PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEINED (IF AVAILABLE) **41** **52**

Not to be filled in by driller (MDE OR COUNTY USE ONLY)
 APPROP. PERMIT NUMBER **G**
 PERMIT No. **40-17-0122** **70 71 72 73 74 75 76 77 78 79**

SPECIAL CONDITIONS
 NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

Diagram: A hand-drawn site plan showing a house, a driveway, and three proposed loops (1, 2, 3) for a closed-loop geothermal system. Distances from the house to each loop are listed in a table:

Loop	A	B
1	77'	57'
2	81'	69'
3	96'	64'
4	72'	48'

Notes: 3/17 - drillers not on site. 3/21/17 - first 2 wells completed. 1st loop in and bore grouted. 3rd well only to 120' loop in but no grout yet will drill another bore ~ 170' to make up difference.



PLAT No. 10693

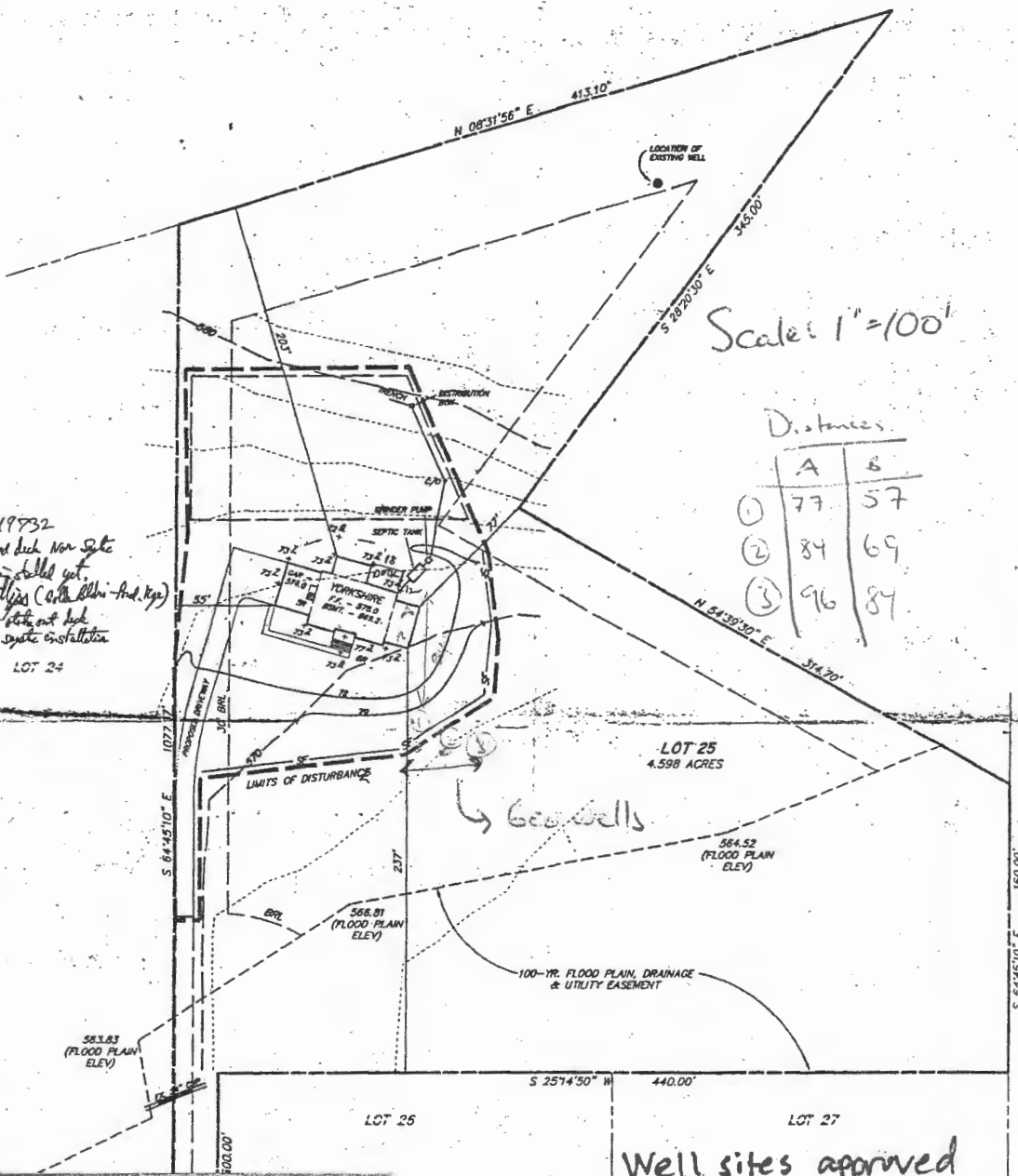
88619732
 Proposed deck over Septic
 system, drilled out
 dist. Phillips (Carlin Bellini And. Reg.)
 cannot locate out back
 prior to Septic installation
 LOT 24

Scale: 1" = 100'

Distances

	A	B
①	77	57
②	84	69
③	96	84

SEPTIC ELEVATIONS REQUIRED	
BSMT ELEV.	569.2
FIRST FLOOR ELEV.	578.0
INV. OUT OF HOUSE	567.7
INV. INTO SEPTIC TANK	567.5
INV. OUT OF TANK	567.2
INV. IN PUMP	567.1
INV. INTO DIST. BOX	576.7
INV. INTO TRENCH	576.5
EX. GRADE AT SEPTIC TANK	567.7
EX. GRADE AT DIST. BOX	579.2
EX. GRADE AT TRENCH	579.2
ELEV. OF WELL AT GRADE	593.0



DO NOT REMOVE THIS TAG
 DEPARTMENT OF THE ENVIRONMENT
 WELL PERMIT NUMBER

H0-17-0122

INFORMATION-GIVE NUMBER AND WRITE
 1800 WASHINGTON BLVD
 BALTIMORE MARYLAND 21230

Well sites approved
 3/15/17 SC

- NOTES:
- BOUNDARY ESTABLISHED FROM EXISTING RECORDS. SEE PLAT ENTITLED, "CND PROPERTY, LOTS 1 - 32."
 - FLOOD PLAN ELEVATIONS SHOWN ON THE EASEMENT AREA ABOVE-REFERENCED PLAT.
 - TOPOGRAPHY IS FIELD RUN BY LAVELLE & ASSOCIATES, INC.
 - BENCHMARK INFORMATION: (1) HOWARD COUNTY GEODETIC 1 HOBBS RD. 1/2 MILES NORTH OF INTERSECTION OF SHADY LAI 612.843' HAD '83 (2) HOWARD COUNTY GEODETIC SURVEY MA SIDE OF THE INTERSECTION OF HOBBS RD. & GLENWOOD SPRIN

Site plan on site 3/21/17
 4th bore not added yet.

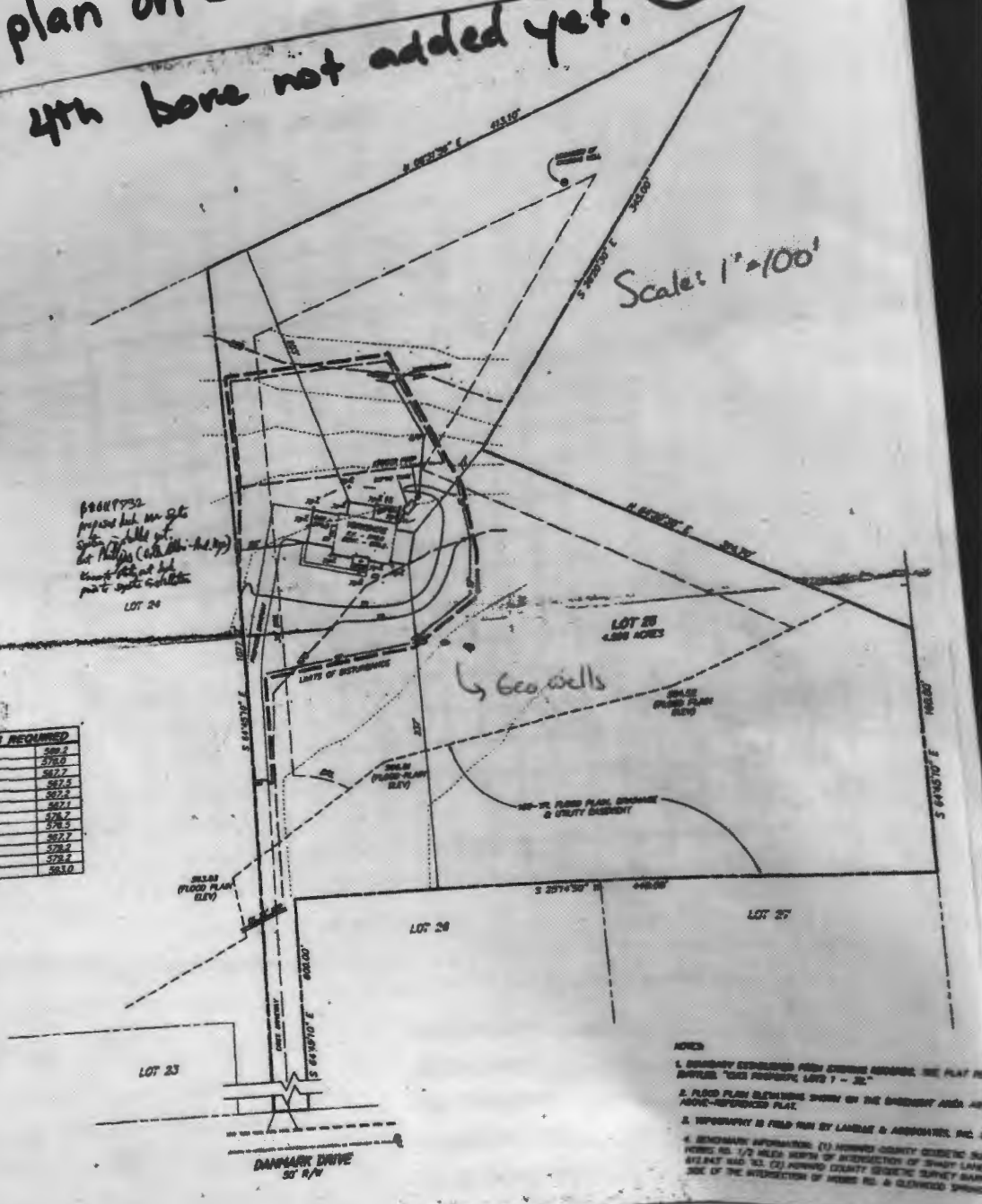
MR



Scale: 1" = 100'

POORLY
 prepared but on site
 site - all of
 lot 20 (containing 4th bore)
 4th bore not added yet
 part of site

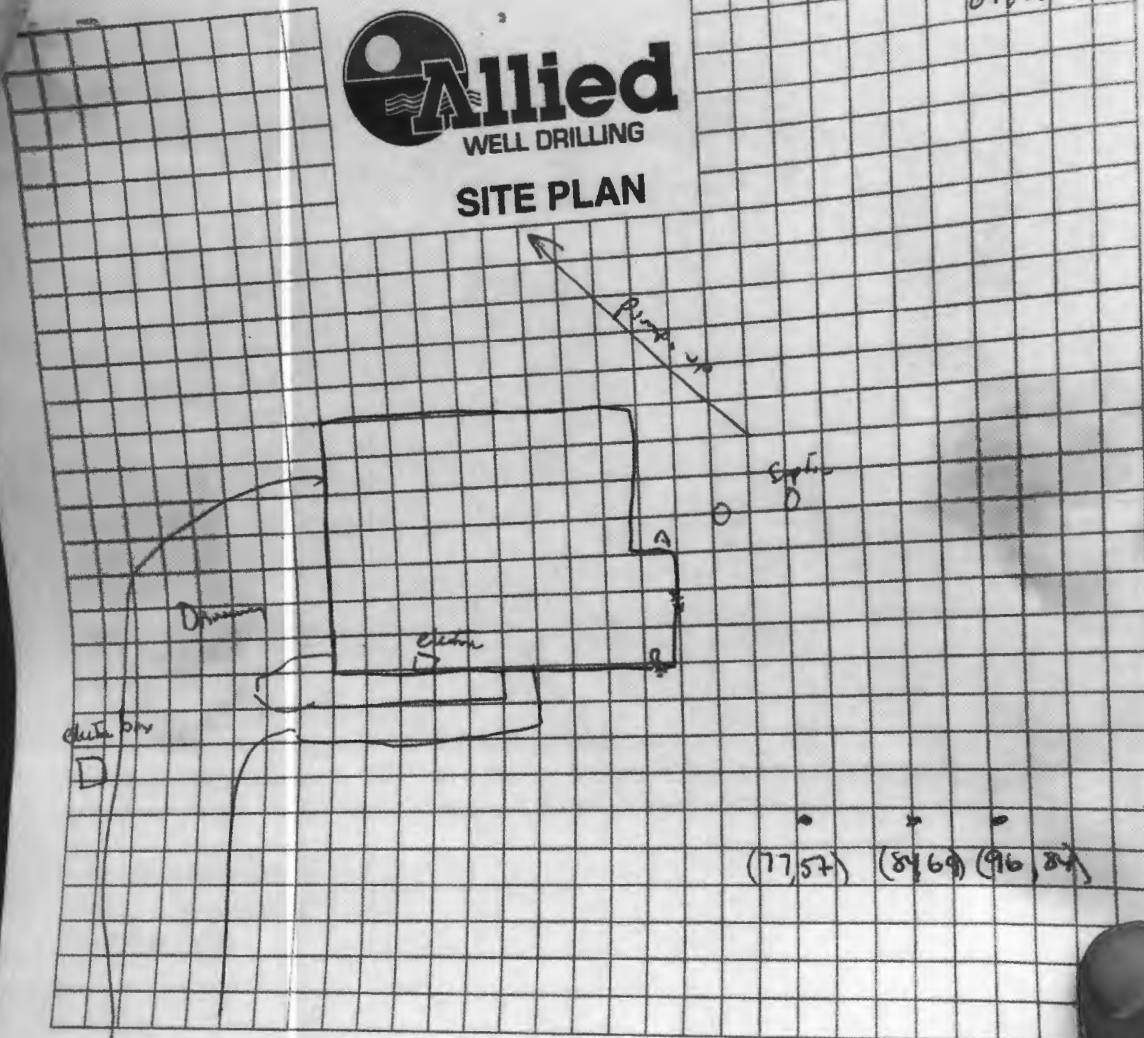
SEPTIC ELEVATIONS REQUIRED	
BSMT. ELEV.	509.2
FIRST FLOOR ELEV.	575.0
FIN. OUT OF HOUSE	582.2
FIN. INTO SEPTIC TANK	582.2
FIN. OUT OF BANK	582.2
FIN. BY PUMP	578.2
FIN. INTO DIST. BOX	578.2
FIN. INTO TRENCH	582.2
EX. GRADE AT SEPTIC TANK	578.2
EX. GRADE AT DIST. BOX	578.2
EX. GRADE AT TRENCH	578.2
ELEV. OF WELL AT GRADE	583.0



- NOTES
1. BOUNDARY ESTABLISHED FROM SURVEY SHOWING THE PLAT IS SHOWN "SEE PROPOSED LOTS 7 - 20"
 2. FLOOD PLAN ELEVATIONS SHOWN ON THE SHEDDING AREA ARE ABOVE-REFERENCED PLAT.
 3. TOPOGRAPHY IS FIELD RUN BY LANDLORD & ASSOCIATES, INC.
 4. BENCHMARK INFORMATION: (1) HUNTER COUNTY GEODETIC 20 POINT NO. 1/2 MILES NORTH OF INTERSECTION OF SHADY LAKE RD & 847 NAD 83. (2) HUNTER COUNTY GEODETIC SURVEY MARK NO. 1 OF THE INTERSECTION OF HUNTER RD. & CLEVELAND SPRING

Allied
WELL DRILLING
SITE PLAN

0/12/20 Wc 4



Sediment Control Protocol: silt bag

Distance From House: 57
 From Septic: 84'
 From Sewer: N/A
 From Property Line: 100+
 From Street: 100+

Trees Nearby: NO
 Utility Issues: NO
 Mats Needed: YES
 Access For H/U: see above
 Neighboring Tags: _____

Comments: _____

Person Completing Form: _____

HOWARD COUNTY GROUTING PROCEDURE

Boreholes will be grouted from the bottom to the top via a tremie pipe and positive displacement pump. Bentonite grout, known as Quik-Grout will be used according to the manufacturer's specifications to achieve a consistency of at least 20% solids (24 gallons potable water/50 lb. sack of grout) and a permeability no more than $2.5 \text{ E}(-08) \text{ cm/sec}$. Grouting will be completed immediately after installing the geothermal loop and no later than twenty-four (24) hours after installing the geothermal loop. Open boreholes/annular space will be protected as necessary to prevent the entry of surface water or pollutants.

GRADE

EACH BORE HOLE (TYP.)

MINIMUM
HORIZONTAL BURY
DEPTH 4 FT

FOR CONT.
SEE PLANS

HORIZONTAL
PIPING

GROUT ENTIRE ANNULAR
SPACE AND VERTICAL
U-TUBE WITH (BENTANITE)
GROUT.

BORE DEPTH

TAPE

5 TO 10 FOOT SECTION OF
REBAR TO GUIDE TUBE
INTO BORE DURING
INSTALLATION

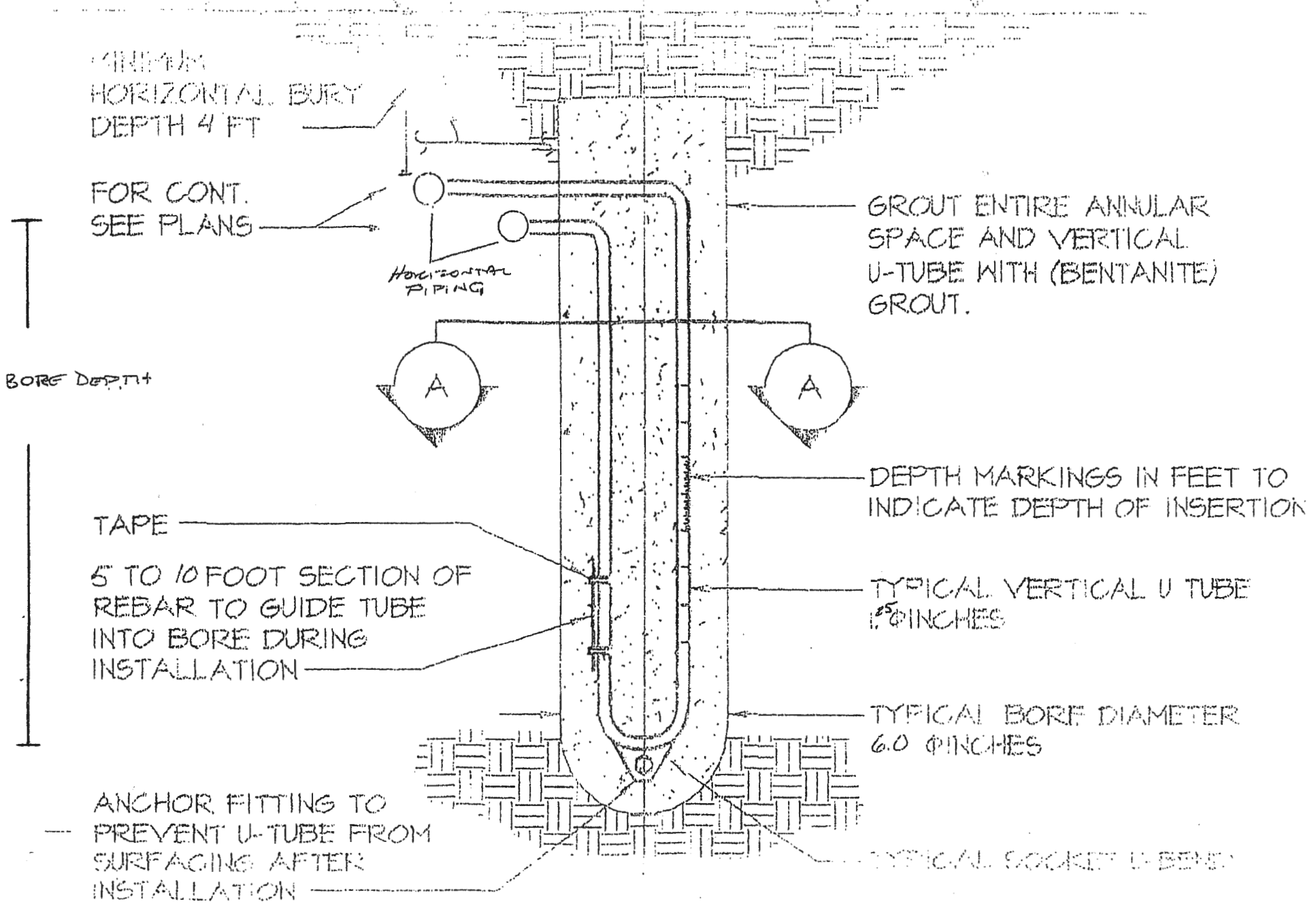
DEPTH MARKINGS IN FEET TO
INDICATE DEPTH OF INSERTION

TYPICAL VERTICAL U TUBE
1.5 INCHES

TYPICAL BORE DIAMETER
6.0 INCHES

ANCHOR FITTING TO
PREVENT U-TUBE FROM
SURFACING AFTER
INSTALLATION

TYPICAL SOCKET U-BEND



DEPARTMENT OF INSPECTIONS, LICENSES & PERMITS 3430 COURT HOUSE DRIVE ELLCOTT CITY, MD 21043 PERMITS (410) 313-2455 INSPECTIONS (410) 313-1850	HOWARD COUNTY RESIDENTIAL HEATING-VENTILATION-AIR CONDITIONING AND REFRIGERATION PERMIT APPLICATION	HVACR PERMIT # MI7000347 BUILDING PERMIT #
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BUILDING ADDRESS: 3300 Danmark Dr Glenwood MD 21738	SUITE/APT: 21738	OWNERS NAME: Lou De Eugenio
SUBDIVISION: CENSUS TRACT: LOT: BLOCK:	SECTION: TAX MAP: ZONE:	ADDRESS: 3300 Danmark Dr
PROPERTY ID:	MAP COORDINATES:	CITY: Glenwood
TYPE OF IMPROVEMENTS:	USE:	STATE: MD ZIP CODE: 21738
		HOME PHONE: 443-253-7418 WORK PHONE:

	CHECK ONE	HOW MANY	COMPANY NAME:
SINGLE FAMILY DWELLING	<input checked="" type="checkbox"/>	<u>2</u> ZONES	A Quality HVAC
SINGLE FAMILY TOWNHOUSE	<input type="checkbox"/>	___ ZONES	LICENSEE NAME: JOSHUA A D'ETZ
MULTI-FAMILY / HOTEL/MOTEL	<input type="checkbox"/>	___ ROOMS	ADDRESS: 1584 DEER PARK RD.
ASSISTED LIVING HOMES (16 OR FEWER RESIDENTS)	<input type="checkbox"/>	___ ROOMS	CITY: FINKSBURG
			STATE: MD ZIP CODE: 21048
			PHONE: 410 751 9700 HVACR LICENSE NO: 48393

New

Heating and Air Conditioning

Geo Thermal System

Heating System Only

Ductless Mini Splits

Other Work (Describe):

Thru The Wall Systems

Replacement

Heating

Air Conditioning

Heating and Air Conditioning

vertical

Additions and Alterations

Heating

Air Conditioning

Heating and Air Conditioning

Replacement Geo Thermal Systems are not required; However, if a tax credit is being sought a permit is required

Zones	Rooms
Permit Fee = # of Zones x \$40 = <u>80.00</u>	Permit Fee = # of Rooms x \$80 = <u> </u>
Technology Fee (10% of Permit Fee) = <u>8</u>	Technology Fee (10% of Permit Fee) = <u> </u>
Plus Application Fee <u>50.00</u>	Plus Application Fee \$50 <u>50.00</u>
Total Fees Due = <u>138</u>	Total Fees Due = <u> </u>

I HAVE CAREFULLY EXAMINED AND READ THIS APPLICATION AND KNOW IT IS TRUE AND CORRECT. THE WORK DESCRIBED HEREIN WILL BE PERFORMED BY A STATE HVACR LICENSED PERSON(S), AND ALL WORK WILL BE PERFORMED IN COMPLIANCE WITH APPLICABLE CODES AND STANDARDS OF HOWARD COUNTY THE STATE OF MARYLAND.

SIGNATURE OF LICENSEE: [Signature] DATE: 4/11/17

PRINT NAME OF LICENSEE: JOSHUA A D'ETZ

Email Address: J.D'ETZ@AQUALITYHVAC.COM

Validation

Check Number: 20134

Cash:

Receipt Number: 487750

Make check payable to: DIRECTOR OF FINANCE OF HOWARD COUNTY

Hard doc: T:\Updated Forms\hvac application

Rev: 10.2009

Water Furnace Equip

PKG - M - NDV049H1
S - 170301439

well + septic split - M - NDZ026G1
S - 170301441

HH - M - NHH026D
S - 170301440