

C 1 08039

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

THIS REPORT MUST BE SUBMITTED AFTER WELL IS COMPLETED.

COUNTY NUMBER A511469

ST/CO USE ONLY DATE Received

DATE WELL COMPLETED 10 24 2000

Depth of Well 325'

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-94-2858

OWNER Carwithen David STREET OR RFD Long Corner Rd TOWN Mt Airy SUBDIVISION Carwithen Property (Pinner Mpls 112) SECTION LOT 2

WELL LOG table with columns for DESCRIPTION, FEET (FROM, TO), and check if water bearing. Includes entries for Brown Shale and Blue Rock.

GROUTING RECORD form including fields for YES/NO, TYPE OF GROUTING MATERIAL (CEMENT, BENTONITE CLAY), NO. OF BAGS, NO. OF POUNDS, GALLONS OF WATER, and DEPTH OF GROUT SEAL.

CASING RECORD form including fields for casing types (STEEL, CONCRETE, PLASTIC, OTHER), MAIN CASING TYPE, Nominal diameter, and Total depth.

OTHER CASING (if used) form with fields for diameter and depth.

SCREEN RECORD form including fields for screen type (STEEL, BRASS, BRONZE, PLASTIC, OPEN HOLE, OTHER) and DEPTH.

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED: YES

CIRCLE APPROPRIATE LETTER A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED

DRILLERS LIC. NO. MSD024 DRILLERS SIGNATURE Joseph L. Mayne LIC. NO. D

SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

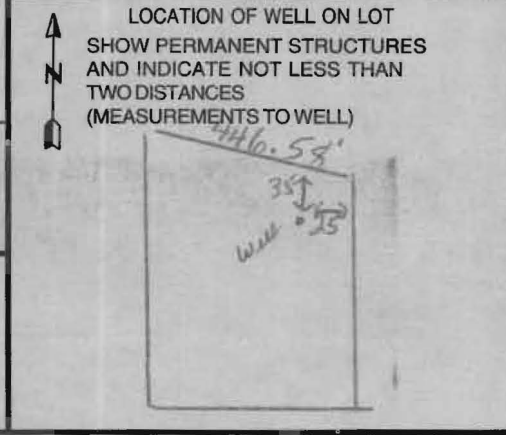
DEPTH (nearest ft.) table with columns for depth intervals (1-2, 3-4, etc.) and corresponding values.

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q

PUMPING TEST form including fields for HOURS PUMPED, PUMPING RATE, METHOD USED TO MEASURE PUMPING RATE (Bucket), WATER LEVEL, and TYPE OF PUMP USED (S submersible).

PUMP INSTALLED form including fields for DRILLER INSTALLED PUMP, TYPE OF PUMP INSTALLED, CAPACITY, and PUMP HORSE POWER.



B 1 5956

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND PERMIT TO DRILL WELL

STATE PERMIT NUMBER

HO-94-2858

W514195 please print or type

fill in this form completely

Date Received (APA) 8/17/00

OWNER INFORMATION

Carwithen Mary Janet David
1851 Long Corner Rd
Mt. Airy

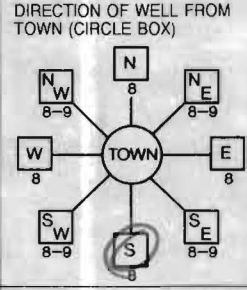
LOCATION OF WELL

Howard
Carwithen Property
Former Naples Property Lot 12
Mt. Airy

DRILLER INFORMATION

Joseph L. Mayne
Joseph L. Mayne Well Drilling
5512 Ridge Rd. Mt. Airy Md. 21771

DIRECTION OF WELL FROM TOWN



Long Corner Rd
NEAR WHAT ROAD

ON WHICH SIDE OF ROAD
750
DISTANCE FROM ROAD

WELL INFORMATION

APPROX. PUMPING RATE 5
AVERAGE DAILY QUANTITY NEEDED 500

TAX MAP: 6 BLK: PARCEL 222

USE FOR WATER

- DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION
FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
INDUSTRIAL, COMMERCIAL, DEWATERING
PUBLIC WATER SUPPLY WELL
TEST, OBSERVATION, MONITORING
GEO-THERMAL

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard
A511469
STATE SIGNATURE
DATE ISSUED 9/26/00
CO SIGNATURE
NORTH GRID 543 000
EAST GRID 0755 000

APPROXIMATE DEPTH OF WELL 180 FEET

APPROXIMATE DIAMETER OF WELL 6 INCH

METHOD OF DRILLING

BORED (or Augered)
AIR ROTARY
CABLE
JETTED
AIR-PERCussion
REVerse-ROTary
Jetted & DRIVEN
ROTARY (Hydraulic Rotary)
DRive-POINT

REPLACEMENT OR DEEPEINED WELLS

- 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

Not to be filled in by driller (MDE OR COUNTY USE ONLY)

APPROP. PERMIT NUMBER
PERMIT No. HO-94-2858

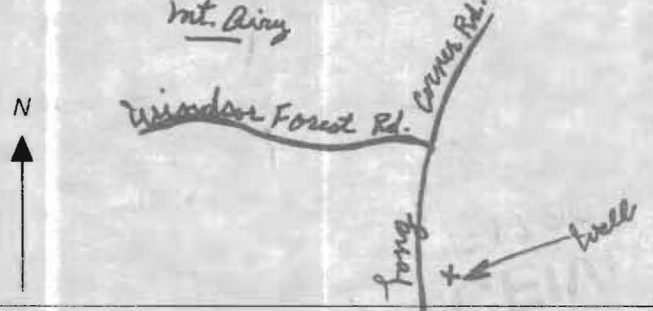
SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER

WRITE THE BOX NUMBER FROM THE MAP HERE

E 7505
N 5403

DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION



SPECIAL CONDITIONS

NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

**HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
WATER AND SEWERAGE PROGRAM
TEL: (410)313-2640 FAX: (410)313-2648**

Information Form for the Installation of the Well Pump, Pitless Adapter, and Supply Piping

NOTE: The installer is responsible for requesting an inspection prior to 9 am on the day of the desired inspection. No work is to be covered until approved by the Health Department. All installations must comply with the National Standard Plumbing Code (NSPC, as amended locally) and COMAR 26.04.04 (MD Well Construction Regulations). Submission of a complete form is required prior to Use and Occupancy approval.

Company Name: R.L. STULL ENTERPRISES, LLC Telephone #: 301-829-0898
 Address: RICHARD L. STULL
415 WINDY KNOLL DR.
MT. AIRY, MD 21771

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer
 License # and name of individual responsible for the field installation:
 Name (Print): Richard L. Stull License# 16851-MD-ST

*A licensed individual must perform the actual installation. Apprentices must be under the direct supervision of a licensed journeyman or master plumber, pump installer or well driller. Licenses may be subjected to field verification.

Name of Property Owner: Wolfrey Telephone #: 301-879-3781
 Subdivision: Carwithen Property Lot #: 2 Well Tag #: HO-942858
 Site Address: 1853 Long Corner Rd
MT Airy

<u>Submersible Pump Data</u>	<u>Pitless Adapter</u>	<u>Well Cap and Electric Conduit</u>
Make: <u>Starite</u>	Make: <u>B-104</u>	Two piece watertight cap: <u>Y</u>
Model #: <u>2445079004</u>	Model#: <u>Campbell</u>	Screened, vented well cap: <u>Y</u>
Pump Capacity: <u>5</u> GPM	Depth: <u>Y</u> (36" min)	Cap secured to casing: <u>Y</u>
Well Yield: <u>5</u> GPM	NSF approved: <u>Y</u>	Conduit min 18" B.G.: <u>Y</u>
Depth of well encountered at time of pump installation: <u>325</u> (feet)		Conduit secured to well cap: <u>Y</u>

Co Health Dep Inspection on 8/9/01

If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4
Torque arrestors or Cable guards are required - Must circle one
 Safety rope, if used, attached to inside of well casing with eye bolt Y

<u>Piping to house</u>	<u>House Connection</u>
Type: <u>Silvaflex / Siloflex</u> poly	PVC sleeved to undisturbed soil at wall penetration: <u>yes</u>
PSI: <u>160</u> (160 psi min)	Approximate length of sleeve: <u>5 FT</u>
Depth of supply line: <u>36</u> (36" min)	Sleeve caulked and sealed properly: <u>yes</u>

The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping, distribution box, drainfields, and sewage reserve area. If this cannot be accomplished, contact this office for approval prior to installation.

Signature of company representative responsible for installation: Richard L. Stull date: 8-20-01

For Health Department Use Only - Not to be completed by Installer

Date Insp. Requested: 8/9/01 Date Insp. Approved: 8/9/01 (BB) SRK
 Inspection Data: Pitless adapter and water supply line at least 36" below grade
 Two piece cap installed and attached to casing securely
 Elec. conduit extends at least 18" below grade/attached to cap properly
 Safety rope installed inside of well casing
 Correct well tag attached properly and casing 8" above finished grade
 Water supply line sleeved adequately at house connection
 Adequate grout observed below pitless adapter

Second
stage system
to be off lot

Green areas OK
to drill well
8/23/80

also
OK well
area

S. 50° 39' 15" E. - Swale
FENCE LINE ON
745
740
735
730

swale here is
OK well site

This is an
acceptable well site
on small up slope

Red areas
Do Not
Drill
well

WELL
ALTERNATE 1

EXISTING STREAM

Flood Plain

LOT 12
8.52549 AC

EXISTING CURVERT

PROPOSED
WELL

Not
a well site
acceptable
(in flood plain
of stream)

LOT #1

LOT #2

Car within Property lot 2
(Formerly Naples Subdiv lot 12)
off Long Corner Road

EXISTING
BARN

EXT. SEPTIC AREA

60'
SM5
PROP.
HOUSE
40'

FENCE LINE ON

S. 02° 00' 40" W. 624.43'

EXT.
WELL

730

725

720

715

710

715

720

725

398

SM6

40'

100' R

Second
Stake appears
to be off lot

Green areas OK
to drill well
8/23/00

also
OK well
area

745

740

735

730

S. 50° 38' 15" E. - Swale
FENCE LINE ON
446.58'

Swale
This is an
acceptable well site
on Small up slope part

Red area's
Do Not Drill
well

WELL
ALTERNATE 1

EXISTING STREAM

Flood Plain

LOT 12
6.52549 AC

PROPOSED
WELL

EXISTING CURVERT

well site
of Not
acceptable
710
(in flood plain)
of stream

Lot #1

LOT #2

EXISTING
BARN

Car within Property lot 2
(Formerly Naples Subdiv lot 12)
off Long Corner Road

EXT. SEPTIC AREA

PROP.
HOUSE

S. 02° 00' 40" W. - 624.43'

710

715

720

725

EXT.
WELL

730

39B1

SM6

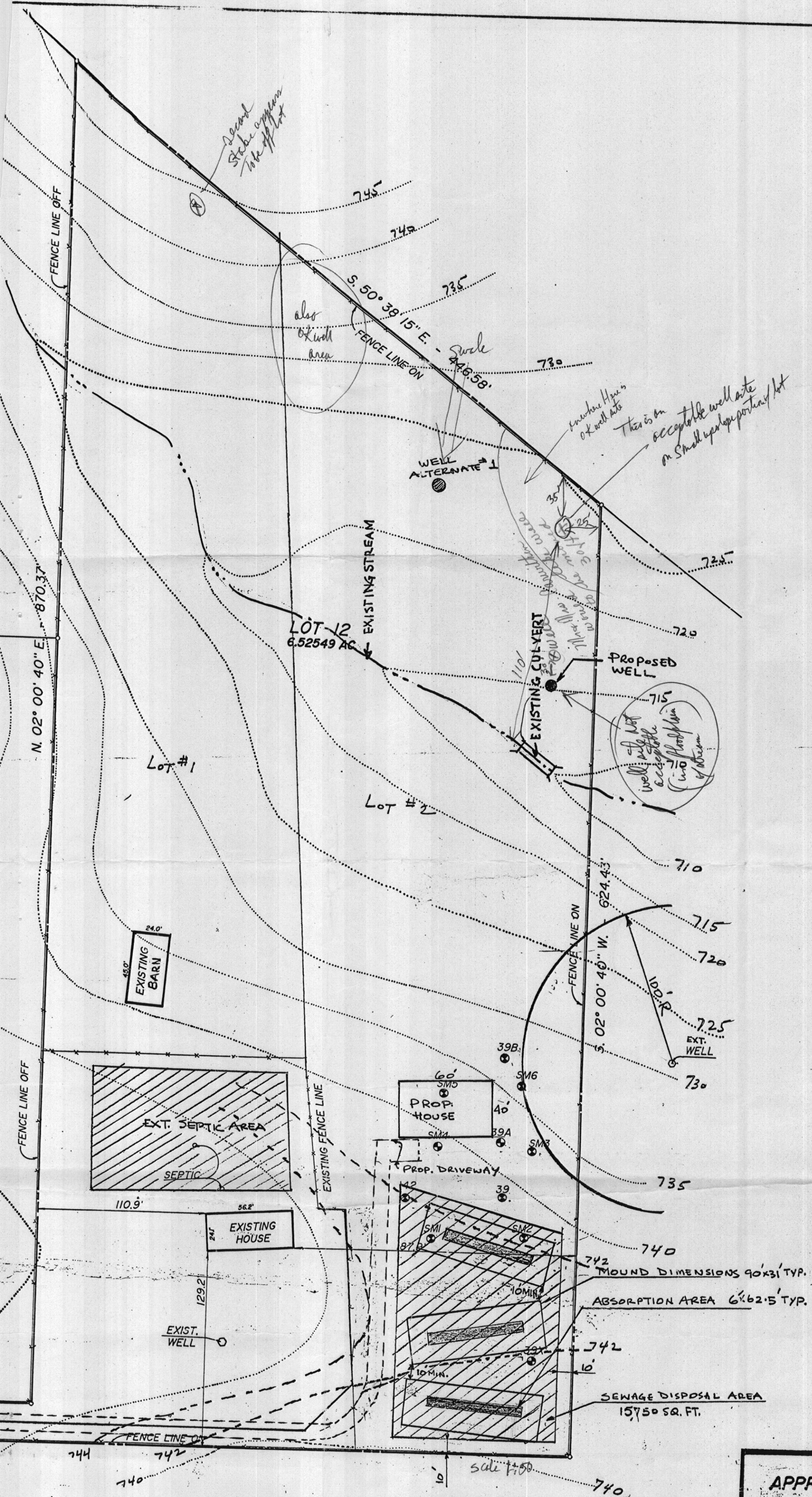
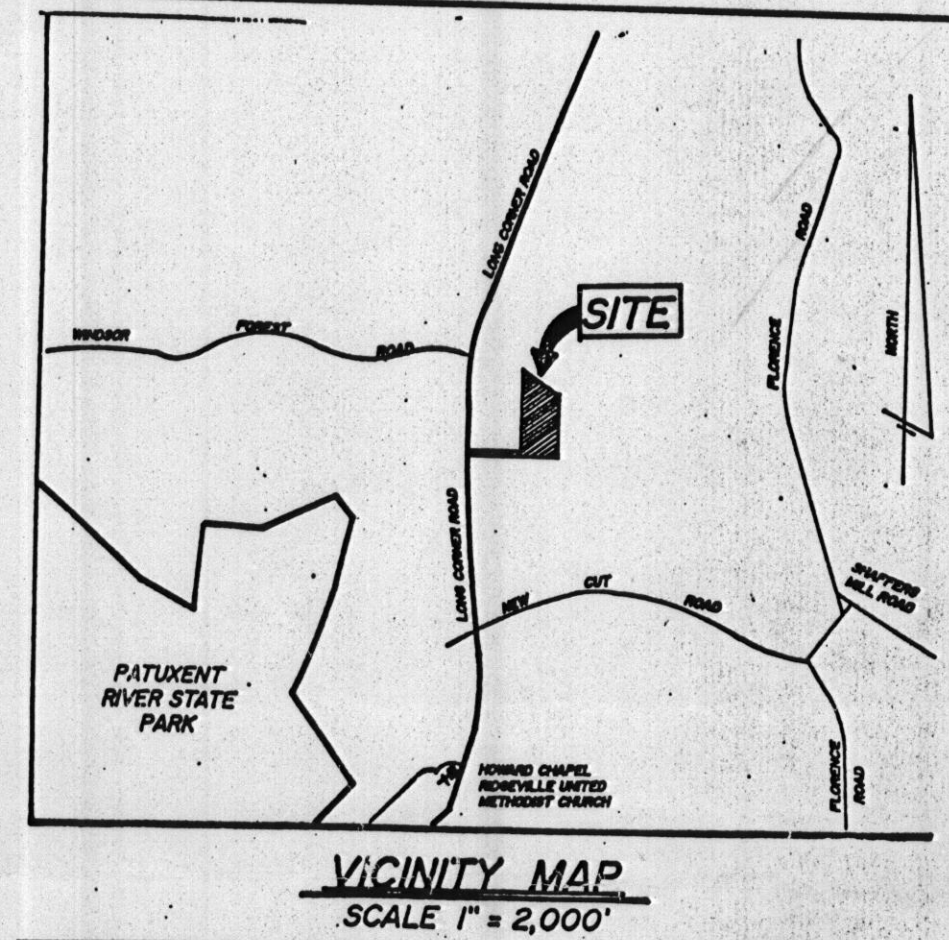
60'
SM5

40'

FENCE LINE

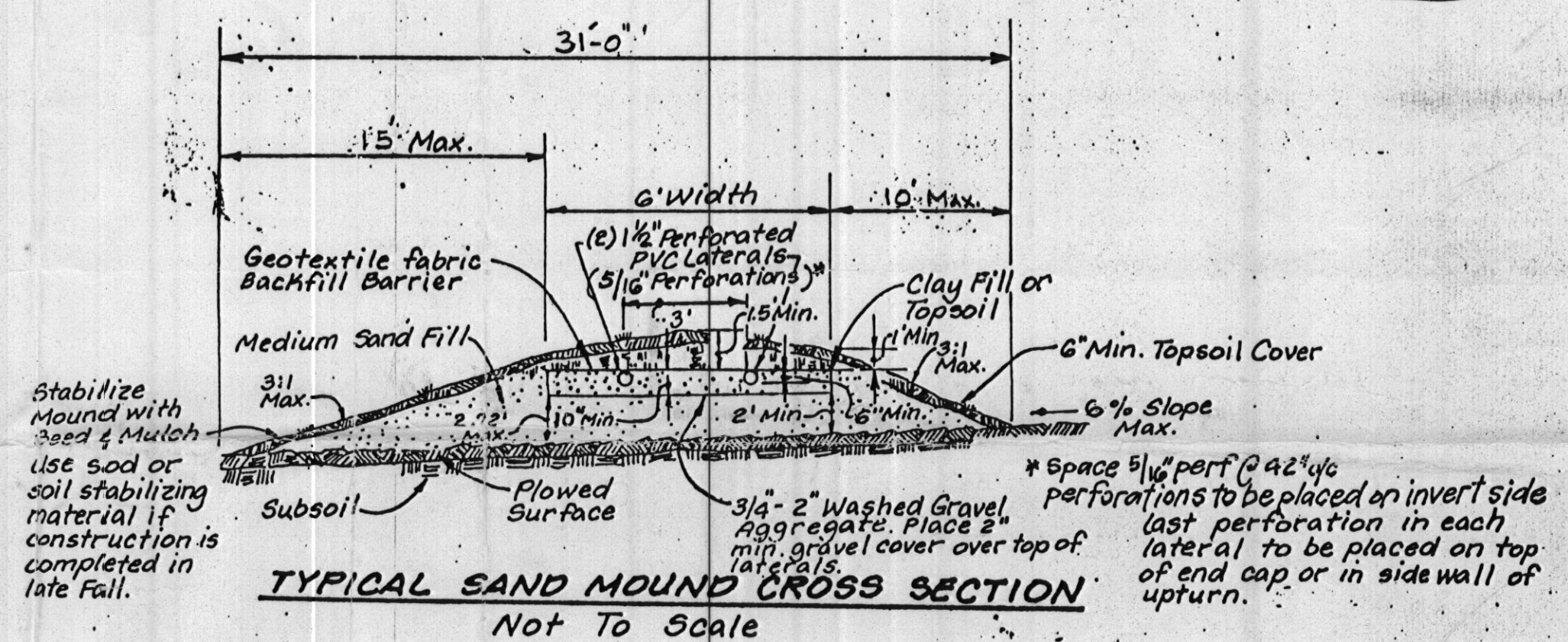
FENCE LINE ON

100'



NOTES

1. This area designates a private sewerage easement of 15,750 square feet as required by the Maryland State Department of the Environment for individual sewerage disposal utilizing sand mound sewage system only. Improvements of any nature in this area are restricted until public sewerage is available. These easements shall become null and void upon connection to a public sewerage system. The County Health Officer shall have the authority to grant variances for encroachment into the private sewerage easement. Recordation of a modified sewerage easement shall not be necessary.
2. The lot shown hereon complies with the minimum lot area and ownership width as required by the Maryland Department of the Environment.
3. Existing Zoning is RC-DEO. Per the 10/18/93 Comprehensive Zoning Plan
4. Sand mound detail plan to be submitted for review and approval by the Howard County Health Department prior to issuance of a building permit for the residence
5. The typical sand mounds shown were sized for a 3 bedroom single family dwelling with side slope of 6%. Any increase in house size (number of bedrooms) will require revised sand mound site and design plans to be submitted for review and approval by the Howard County Health Department prior to issuance of a building permit for the residence.
6. All existing wells and septic systems located within 100 feet of the property line have been shown.



Stabilize Mound with Seed & Mulch use sod or soil stabilizing material if construction is completed in late Fall.

LEGEND

- 39 CONVENTIONAL PERC TEST
- SM SAND MOUND PERC TEST

APPROVED FOR : PRIVATE WELL AND PRIVATE SEPTIC SYSTEM

David Alford
HOWARD COUNTY HEALTH OFFICER

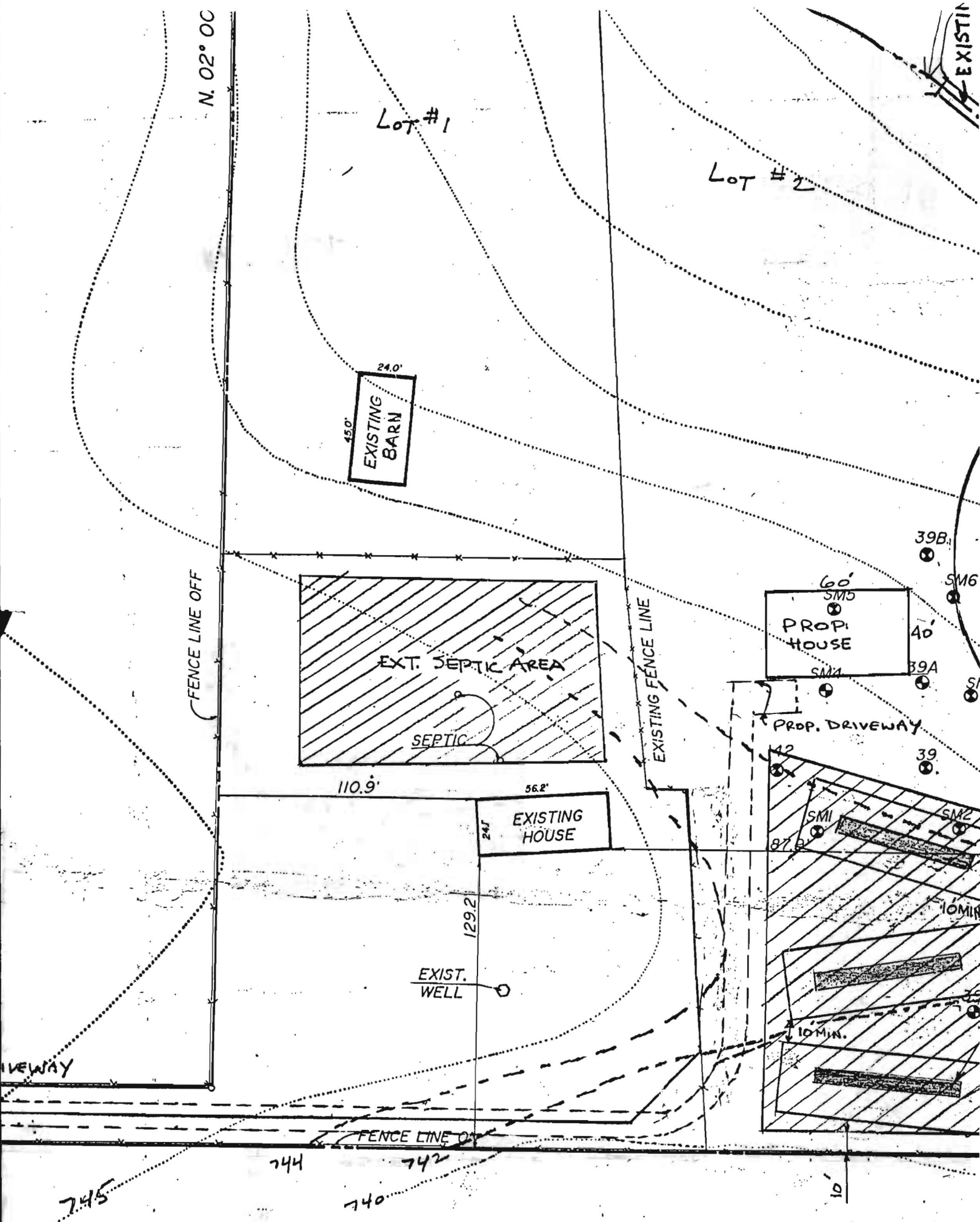
6/12/00
DATE

CE ENGINEERING, INC.
EXECUTIVE CENTER
3300 NORTH RIDGE ROAD, SUITE 360
ELLCOTT CITY, MARYLAND 21043
PHONE (410) 203-9800 FAX (410) 203-9228



OWNER/DEVELOPER
MR. & MRS. DAVID CARWITHEN
1851 LONG CORNER ROAD
MOUNT AIRY, MARYLAND 21771

SAND MOUND SEPTIC SYSTEM
PERCOLATION CERTIFICATION PLAN
CARWITHEN PROPERTY
RESUBDIVISION OF LOT #12, C.R. NAPLES PROPERTY
1st TAX MAP 6, PARCEL 222
4th ELECTION DISTRICT HOWARD COUNTY, MARYLAND



KCE ENGINEERING, INC.

EXECUTIVE CENTER
 3300 NORTH RIDGE ROAD, SUITE 360
 ELLICOTT CITY, MARYLAND 21043





Water System Order Form

To:

Civil Design Systems
19645 Muncaster Road
Rockville, Maryland 20855

From:

George Strally
Goulds Pumps - ITT Industries
P. O. Box 330
Seneca Falls, NY 13148
Ph (315) 568-7123
Fax (888) 322-5877

Input Data

GPM 59	TDH 21				Vertical Elev. (ft)
Disch. Pipe Length (ft)		Disch. Pipe Dia. (in) 2	System Type Simplex System		Required Pressure (psi)
Vert. Suction Lift (ft)					Inlet Pipe Dia. (in)

Model	Description	List Price	Quantity	Total List
WE0712H	PUMP: Sewage 3/4 h.p.; 74 Gpm 1 Phase; 230 Volts	\$861	1	\$861
S10020N1	Control Panel: 1 PH, NEMA 1, 20 run amps	\$270	1	\$270
A2-3M	Control Switch: Mechanical with Weight and Strap 15'	\$34	3	\$102
A9-2BPT	2" Plastic Ball Check Valve	\$47	1	\$47

Total: \$1,280



Submersible Effluent Pump

3885

PROSURANCE AVAILABLE FOR RESIDENTIAL APPLICATIONS.

APPLICATIONS

Specifically designed for the following uses:

- Homes
- Farms
- Trailer courts
- Motels
- Schools
- Hospitals
- Industry
- Effluent systems

SPECIFICATIONS

Pump

- Solids handling capabilities: 3/4" maximum.
- Discharge size: 2" NPT.
- Capacities: up to 140 GPM.
- Total heads: up to 128 feet TDH.
- Temperature: 104°F (40°C) continuous, 140°F (60°C) intermittent.
- See order numbers on reverse side for specific HP, voltage, phase and RPM's available.

FEATURES

- **Impeller:** Cast iron, semi-open, non-clog with pump-out vanes for mechanical seal protection. Balanced for smooth operation. Silicon bronze impeller available as an option.
- **Casing:** Cast iron volute type for maximum efficiency. 2" NPT discharge adaptable for slide rail systems.
- **Mechanical Seal: SILICON CARBIDE VS. SILICON CARBIDE** sealing faces. Stainless steel metal parts, BUNA-N elastomers.

- **Shaft:** Corrosion-resistant, 400 series stainless steel. Threaded design. Locknut on three phase models to guard against component damage on accidental reverse rotation.

- **Fasteners:** 300 series stainless steel.

- Capable of running dry without damage to components.

- Designed for continuous operation when fully submerged.

MOTORS

- Fully submerged in high-grade turbine oil for lubrication and efficient heat transfer.

- **Class B insulation.**

Single phase:

- Built-in overload with automatic reset.
- All single phase models feature capacitor start motors for maximum starting torque.
- 1/3 and 1/2 HP – 16/3 SJTO with 115 V or 230 V three prong plug.
- 3/4-2 HP – 14/3 STO with bare leads.

Three phase:

- Overload protection must be provided in starter unit.
- 1/2-2 HP – 14/4 STO with bare leads.

- **Designed for Continuous Operation:** Pump ratings are within the motor manufacturer's recommended working limits, can be operated continuously without damage.

- **Bearings:** Upper and lower heavy duty ball bearing construction.

- **Power Cable:** Severe duty rated, oil and water resistant. Epoxy seal on motor end provides secondary moisture barrier in case of outer jacket damage and to prevent oil wicking. 20 foot standard with optional lengths available.

- **O-ring:** Assures positive sealing against contaminants and oil leakage.

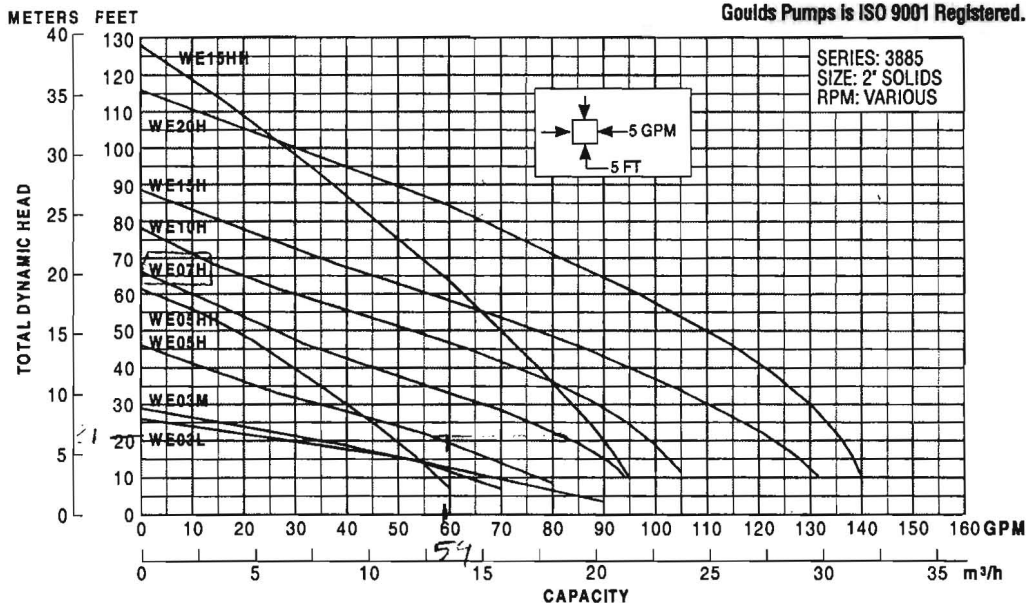
- Consult factory for information on CSA listed models.

AGENCY LISTINGS

Canadian Standards Association
File #LR38549

Underwriters Laboratories
File #83318

Goolds Pumps is ISO 9001 Registered.



Goolds Pumps

