

04-343824

6/19/86  
OR '86  
septic  
(initials)

# PERMIT

P 37097

A 35301

SEWAGE DISPOSAL SYSTEM

MARYLAND STATE DEPARTMENT OF HEALTH

HOWARD COUNTY

ELLICOTT CITY

BUREAU OF ENVIRONMENTAL HEALTH

DISTRICT 4th

~~XXXXXXXXXX~~

INDEXED

461-9933

DATE 6/3/86

Vantage Mechanical IS PERMITTED TO INSTALL  ALTER

ADDRESS \_\_\_\_\_ PHONE \_\_\_\_\_

SUBDIVISION Windsor Farm Estates ROAD 3055 Hobbs Road LOT 2

PROPERTY OWNER Francis Donovan

ADDRESS \_\_\_\_\_

**BUILDING PERMIT SIGNED**

IF GARBAGE GRINDER IS USED INCREASE SEPTIC TANK CAPACITY BY 50% AND ABSORPTION AREA BY **AND RETURNED**  
5-19-03 BOD 141763 - REINSTALL TOWER

GARBAGE GRINDER? YES \_\_\_\_\_ NO

SEPTIC TANK CAPACITY 1250 GALLONS NUMBER OF BEDROOMS 4

**TRENCHES** - 180 sq. ft. per bedroom. Trench to be 2 feet wide. Inlet 4 feet below original grade. Bottom maximum depth 8 feet below original grade. Effective area begins at 4 feet below original grade. 4 feet of stone below distribution pipe.

**LOCATION** - Start first trench 350 feet from the front lot line and 175 feet from the right lot line as seen when facing the property from Hobbs Road. Run trench(s) along level ground toward left side of property.

**NOTE** - No trench to exceed 100 feet in length. If more than one trench used, a distribution box is required. Call for inspection of trench(s) before and after gravel is installed. Provide 6" - 8" diameter cleanout and cap to grade or above on septic tank. *MS*

ENCL. PERMIT SIGNED

AND RETURNED 9-20-89

*Serial # B00120208  
Remove & Reinstall Foot tower  
6/04/85*

PLANS APPROVED BY C. Williams DATE \_\_\_\_\_

COVER NO WORK UNTIL INSPECTED AND APPROVED.

NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.

NOTE: IF TRENCH IS USED CALL FOR INSPECTION BEFORE AND AFTER PLACING GRAVEL IN TRENCH.

NOTE: NO DRY WELL SHALL EXCEED 15 FOOT IN DIAMETER. NO ABSORPTION TRENCH TO EXCEED 100 FEET IN LENGTH.

NOTE: ALL PIPE FROM HOUSE TO SEPTIC TANK MUST BE CAST IRON OR SCHEDULE 40 PVC OR ABS.

PERMIT VOID AFTER THREE YEARS.

NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL. STAND PIPES MUST BE 6 INCHES IN DIAMETER. CAST IRON, CONCRETE OR TERRA COTTA, OR PVC OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET MANHOLE TO GRADE REQUIRED.

**BUILD PERMIT SIGNED**

**AND RETURNED** 5/10/01  
B0029889 Replace  
ck. tower (140")

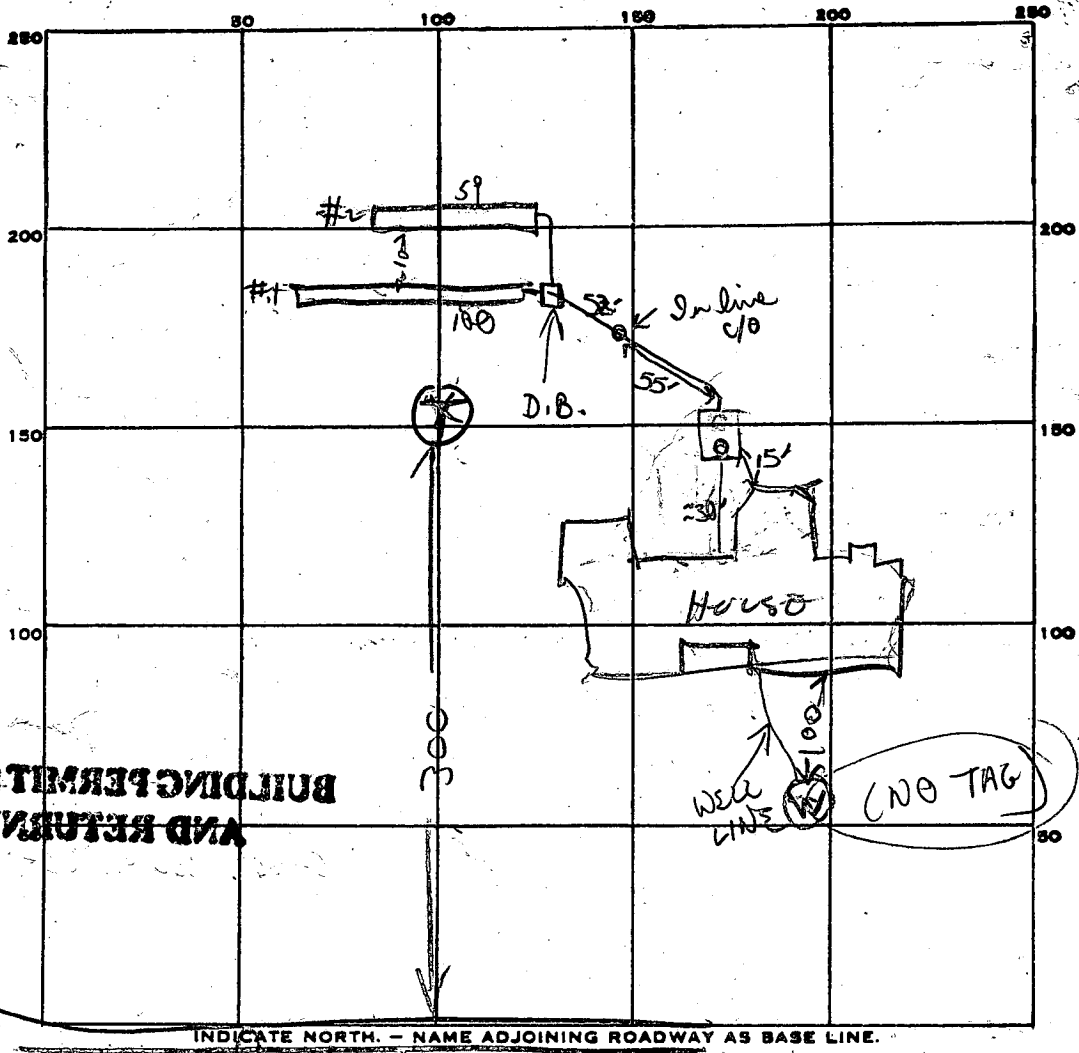
35301

**\*INSTALLER IS RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT**

CALL ~~992-2330~~ FOR INSPECTION OF SEPTIC SYSTEMS.

EH - 2-1082

B



⊗ = RADIO METAL TOWER

**BUILDING PERMITTED  
AND RETURNED**

180  
4  
720 MIN

139  
4?  
636

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

final HOBBS RD

PERMIT CARD final HOBBS RD

SEPTIC TANK, LEVEL 1500 gal CLEANOUTS T.S.T.

DISTRIBUTION BOX, LEVEL \_\_\_\_\_

TILE FIELD, DEPTH #1 8' #2 8' FT. TRENCH WIDTH 2' FT.

GRAVEL DEPTH	<u>#1</u>	IN.	TOTAL LENGTH	<u>#1 100 #2 59</u>	FT.
--------------	-----------	-----	--------------	---------------------	-----

NUMBER OF TRENCHES 2 TOTAL BOTTOM AREA 240 + 250 = 490 236 = 736

SEEPAGE PITS, INSIDE DIAMETER \_\_\_\_\_ FT. DEPTH BELOW INLET \_\_\_\_\_ FT.

ABSORBENT AREA 736 SQ. FT.

60 40  
4 6  
240 240

59  
4  
236  
480  
2

REMARKS 6/6/86 LOCATION OK PER PLANS. TRENCHES DUG AND STONE FINISH JOB & CALL BH

6/9/86 contour of trench #1 such that more stone was added to last 40' or so. This meant going deeper (=10'), no indication of 1/2" on perc papers so OK. OK to finish adding stone pipe paper to both trenches & cover. OK to cover all work

DATE SYSTEM APPROVED 6/9/86 INSPECTOR B. Wihan

# APPLICATION

SEWAGE DISPOSAL TESTING

STATE OF MARYLAND - DEPARTMENT OF HEALTH AND MENTAL HYGIENE

A 35301

P \_\_\_\_\_

HOWARD COUNTY HEALTH DEPARTMENT  
ENVIRONMENTAL HEALTH SERVICES

P. O. BOX 476 ELLICOTT CITY, MARYLAND 21043  
TELEPHONE: 992-2330

DISTRICT \_\_\_\_\_

DATE 4/16/85

*ED DUFFLE  
VANTAGE MECHANICAL  
150 B PENN ROD CT 761-4411  
GLENN BUNNIG*

TO: THE COUNTY HEALTH OFFICER  
ELLICOTT CITY, MARYLAND

I, HEREBY, APPLY FOR THE NECESSARY TEST IN ORDER TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER Mr. and Mrs. James A. Jackson

ADDRESS 3139 Hobbs Road, Glenwood, Maryland PHONE 489-4136

PROPERTY LOCATION:

SUBDIVISION Jackson Property Windsor Farm Est. LOT NO. 2

ROAD AND DESCRIPTION # 3055 Hobbs Road ~~and Burntwoods Road~~

SIZE OF LOT 10 acres ± TYPE BLDG. \_\_\_\_\_ (NUMBER OF BEDROOMS) \_\_\_\_\_

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. James A. Jackson (SIGNATURE OF APPLICANT)

APPROVED BY C. Willem FOR TRENCHES DATE 6/4/85

REJECTED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_

HOLD PENDING FURTHER TESTS \_\_\_\_\_ DATE \_\_\_\_\_

REASONS FOR REJECTION OR HOLDING 4/17/85 - PERC OK HOLD FOR

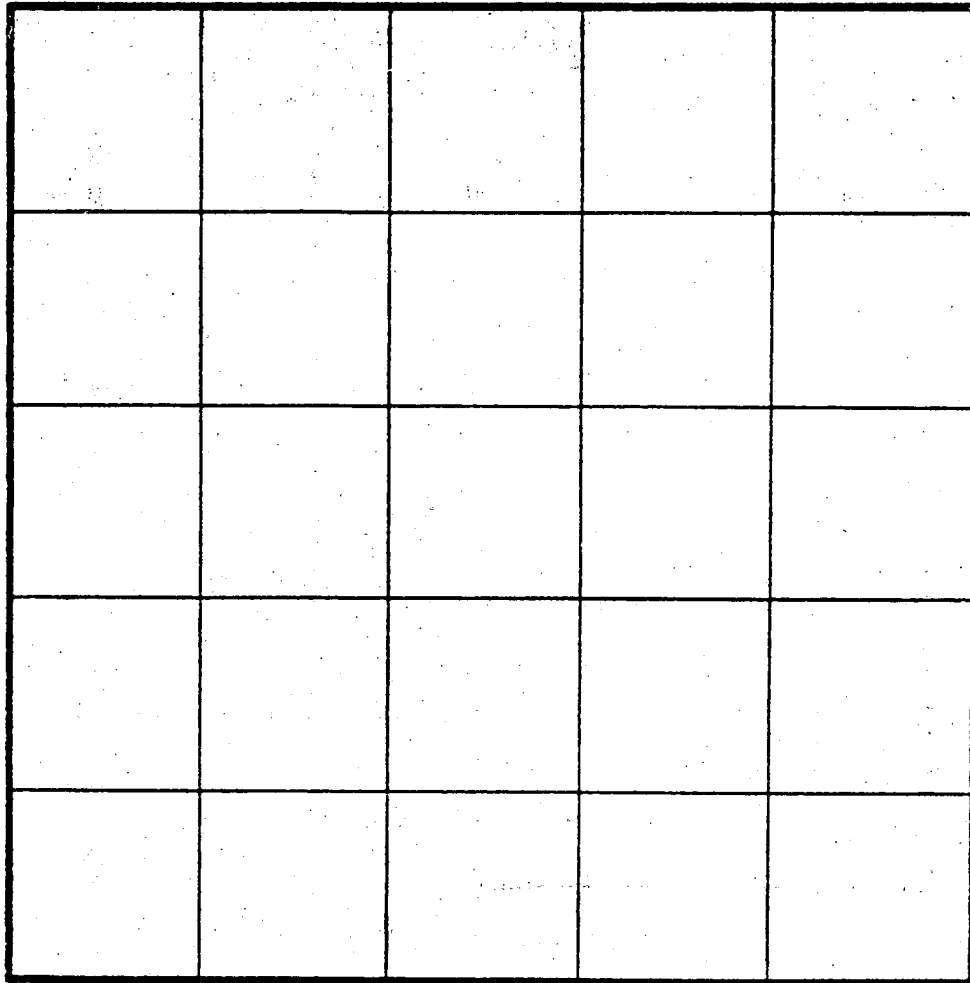
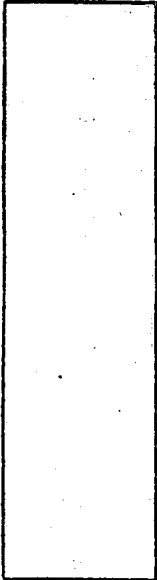
CERTIFIED PLAT R/H

**BDDG. PERMIT SIGNED  
AND RETURNED 4/2-85 BP 67940**

# THIS IS NOT A PERMIT

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	

REMARKS \_\_\_\_\_

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SEWAGE DISPOSAL TESTING

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P \_\_\_\_\_

HOWARD COUNTY HEALTH DEPARTMENT  
ENVIRONMENTAL HEALTH SERVICES

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TELEPHONE: 992-2330

DISTRICT \_\_\_\_\_

DATE 4/16/85

TO: THE COUNTY HEALTH OFFICER  
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✓ ADDRESS 3139 Hobbs Road, Glenwood, Maryland PHONE 489-4136

PROPERTY LOCATION:

✓ SUBDIVISION Jackson Property LOT NO. 2

✓ ROAD AND DESCRIPTION Hobbs Road and Burntwoods Road

SIZE OF LOT 10 acres  $\pm$  TYPE BLDG. \_\_\_\_\_  
(NUMBER OF BEDROOMS)

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(SIGNATURE OF APPLICANT)

APPROVED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_

REJECTED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_

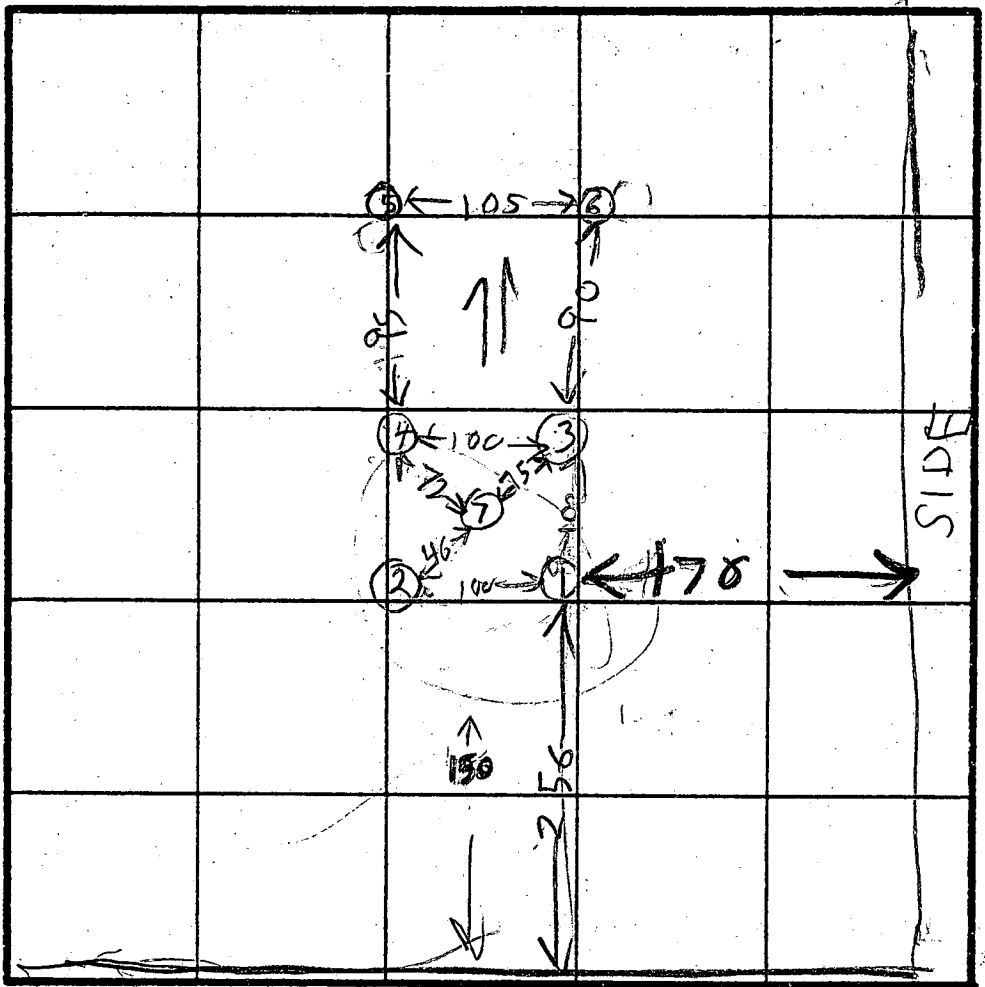
HOLD PENDING FURTHER TESTS \_\_\_\_\_ DATE \_\_\_\_\_

REASONS FOR REJECTION OR HOLDING \_\_\_\_\_

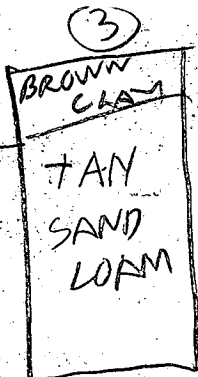
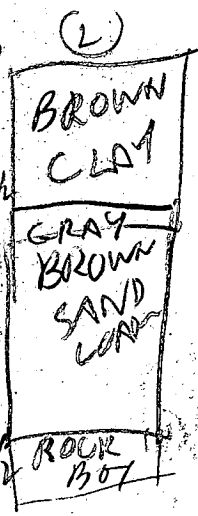
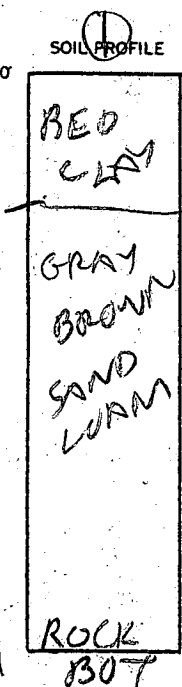
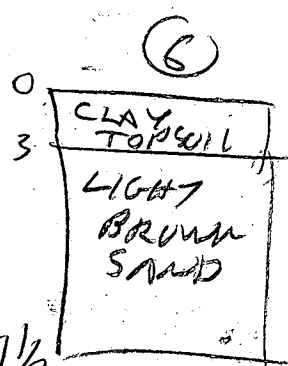
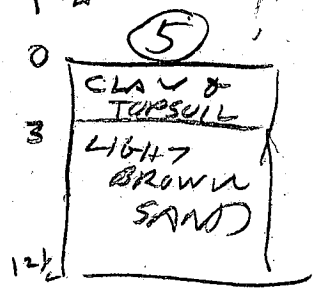
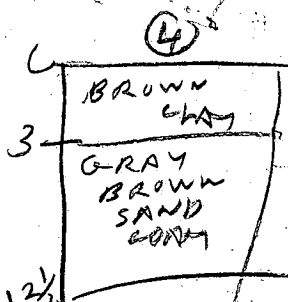
## THIS IS NOT A PERMIT

Lot 2

Lot 2



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.  
HOBBS RD



DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME	
			START	STOP	START	STOP		
4/17/85	1S	7	209	212	212	217	5	
	1V	11	LOOKS	OK	EXCEPT	ROCK		
4/17/85	2S	3 1/2	213	216	216	225	9	
	2V	10 1/2	LOOKS	OK	EXCEPT	ROCK		
	3S	3 1/2	235	238	238	247	9	
	3V	12	LOOKS	OK				
	4S	4	240	242	242	250	8	
	4V	12 1/2	LOOKS	OK				
	5S	4	252	253	253	259	6	
	5V	12 1/2	LOOKS	OK				
4/17/85	6V	11 1/2	LOOKS	OK				
	7V	7 1/2	ROCK BOTTOM					

REMARKS \_\_\_\_\_  
 TYPE OF SOIL R/HODGES SKIP OF P109

11-12-1079

**B 1** 6736 SEQUENCE NO. (OEP USE ONLY)  
 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

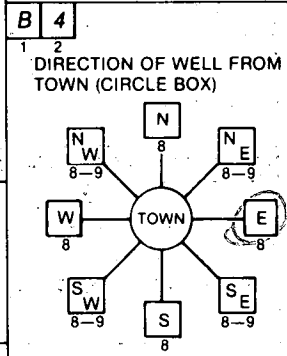
**STATE OF MARYLAND PERMIT TO DRILL WELL**  
 please print or type

OEP PERMIT NUMBER  
HO-81-1004  
 fill in this form completely

**OWNER INFORMATION**  
 Date Received 1/11/85  
DONOVAN FRANCIS Owner  
1059 OLMAR DR Street or RFD  
CROWNSVILLE MD 21032 Town State Zip

**LOCATION OF WELL**  
HOWARD COUNTY  
JACKSON PROPERTIES SUBDIVISION  
 SECTION 44 LOT 2  
GLENWOOD NEAREST TOWN  
 MILES FROM TOWN 2 MI

**DRILLER INFORMATION**  
L. Daniel Easterday Driller's Name License No. 41  
L. Franklin Easterday, Inc Firm Name  
925 Brown Church Rd. Mt. Airy, Md 21771 Address  
L. Daniel Easterday Signature Date 1/11/85



Hubbs Rd NEAR WHAT ROAD  
 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)  
250 DISTANCE FROM ROAD  
 ENTER FT or MI FT

**WELL INFORMATION**  
 APPROX. PUMPING RATE (GAL. PER MIN.) 2  
 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 500

**USE FOR WATER** (CIRCLE APPROPRIATE BOX)  
 HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY)  
 FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)  
 INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOV. OTHER (REQUIRES APPROPRIATION PERMIT)  
 PUBLIC OR PRIVATE WATER COMPANY (REQUIRES APPROPRIATION PERMIT AND STATE HEALTH DEPARTMENT APPROVAL)  
 TEST, OBSERVATION, MONITORING (MAY REQUIRE APPROPRIATION PERMIT)

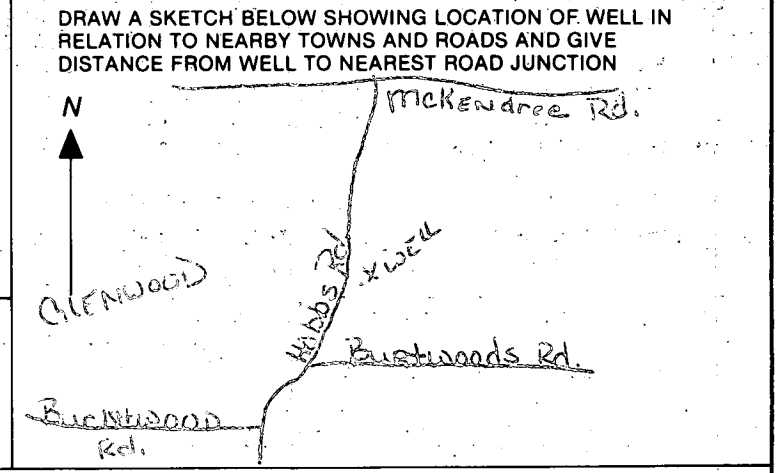
NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL  
HOWARD COUNTY NAME  
A-35301 COUNTY NO.  
 OEP SIGNATURE \_\_\_\_\_ STATE HEALTH INSERT S \_\_\_\_\_  
 DATE ISSUED 05/08/85 CO SIGNATURE Cron William EXP. DATE 11/10/85  
 NORTH GRID 529000 EAST GRID 0797000

APPROXIMATE DEPTH OF WELL 200 FEET  
 APPROXIMATE DIAMETER OF WELL 6 INCH

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X  
 SOURCES OF DRILLING WATER  
 1. WELL  
 2.  
 3.  
 WRITE THE BOX NUMBER FROM THE MAP HERE  
 E 790 ?  
 N 520 ?

**METHOD OF DRILLING** (circle one)  
 BORED (or Augered) JETTED Jetted & DRIVEN  
 AIR-ROTary  AIR-PERCussion  ROTARY (Hydraulic Rotary)  
 CABLE  REVERSE-ROTary  DRIVE-POINT  
 other \_\_\_\_\_

**REPLACEMENT OR DEEPEMED 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  
 THIS WELL WILL DEEPEM AN EXISTING WELL  
 PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) \_\_\_\_\_



Not to be filled in by driller (OEP USE ONLY)  
 APPROP. PERMIT NUMBER \_\_\_\_\_ GAP \_\_\_\_\_  
 FORCE EW WRITE INITIALS IN BOX PERMIT No. HO-81-1004

SPECIAL CONDITIONS

**C1** **0177** SEQUENCE NO. (OEP USE ONLY)  
 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

**STATE OF MARYLAND**  
**WELL COMPLETION REPORT**  
 -FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.  
 COUNTY NUMBER **A35301**

DATE Received [ ] DATE WELL COMPLETED **0511385** Depth of Well **200** (TO NEAREST FOOT) PERMIT NO. FROM "PERMIT TO DRILL WELL" **HO-81-1004**

OWNER **Donovan FRANCIS** last name first name  
 STREET OR RFD **Hobbs Rd.** TOWN [ ]  
 SUBDIVISION **Wyndor Farm** SECTION [ ] LOT **2**

**WELL LOG**  
 Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

DESCRIPTION (Use additional sheets if needed)	FEET		Check if water bearing
	FROM	TO	
Topsoil	0	2	
Br. mica	2	7	
Tan mica	7	9	
Gray mica	9	40	
Tan mica	40	44	✓
Gray mica	44	92	
Tan mica	92	95	
Gray mica	95	200	

**GROUTING RECORD**  
 WELL HAS BEEN GROUTED (Circle Appropriate Box) **Y** **N**  
 TYPE OF GROUTING MATERIAL  
 CEMENT **CM** BENTONITE CLAY **BC**  
 NO. OF BAGS **6** NO. OF POUNDS **600**  
 GALLONS OF WATER **40**  
 DEPTH OF GROUT SEAL (to nearest foot)  
 from **0** ft. to **19** ft.

**CASING RECORD**  
 casing types insert appropriate code below  
**ST** **CO** **PL** **OT**  
 STEEL CONCRETE PLASTIC OTHER

MAIN CASING TYPE **ST** **G** **21**  
 Nominal diameter (nearest inch) **60** **63** **66**  
 Total depth of main casing (nearest foot) **19** **21** **70**

OTHER CASING (if used)  
 diameter inch depth (feet) from to

**SCREEN RECORD**  
 screen type or open hole insert appropriate code below  
**ST** **BR** **HO** **PL** **OT**  
 STEEL BRASS OPEN HOLE PLASTIC OTHER

**C2**  
 DEPTH (nearest ft.)  
 1 **HO** **19** **200**  
 2 [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]  
 3 [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]  
 SLOT SIZE 1 2 3  
 DIAMETER OF SCREEN [ ] (NEAREST INCH)  
 from to

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

OEP USE ONLY (NOT TO BE FILLED IN BY DRILLER)  
 T (E.R.O.S.) WQ  
 70 [ ] 72 [ ] 74 [ ] 75 [ ] 76 [ ]  
 TELESCOPE CASING LOG INDICATOR OTHER DATA

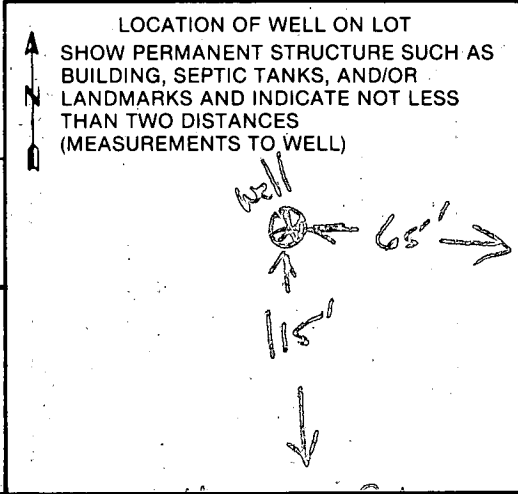
**C3**  
**PUMPING TEST**  
 HOURS PUMPED (nearest hour) **6**  
 PUMPING RATE (gal. per min. to nearest gal.) **3**  
 METHOD USED TO MEASURE PUMPING RATE **Bucket**  
 WATER LEVEL (distance from land surface) BEFORE PUMPING **35** WHEN PUMPING **65**  
 TYPE OF PUMP USED (for test) **A** air **P** piston **T** turbine **C** centrifugal **R** rotary **O** other (describe below) **J** jet **S** submersible

**PUMP INSTALLED**  
 DRILLER WILL INSTALL PUMP YES **NO**  
 IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS EXCEPT HOME USE  
 TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX - SEE ABOVE: **29**  
 CAPACITY: GALLONS PER MINUTE (to nearest gallon) [ ] [ ] [ ] [ ] [ ]  
 PUMP HORSE POWER [ ] [ ] [ ] [ ] [ ]  
 PUMP COLUMN LENGTH (nearest ft.) [ ] [ ] [ ] [ ] [ ]  
 CASING HEIGHT (circle appropriate box and enter casing height) **+** above **-** below  
 LAND SURFACE (nearest foot) **50**

CIRCLE APPROPRIATE LETTER  
**A** A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED  
**E** ELECTRIC LOG OBTAINED  
**P** TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 10.17.13 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DRILLERS IDENT. NO. **41**  
**K. Daniel Osterbay**  
 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)  
**Walter H. Blomquist**  
 SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)



Hobbs Rd

8:00

Date 5/14/85

Review     

FIELD DATA SHEET  
HYDROGEOLOGIC AREA (1) WELL YIELD TEST

Maryland Well Permit No. H081-1004 Election District     

Location of Property (road) Hobbs Rd

Subdivision Blindon Springs Lot 2 Block      Plat      Sec.     

Well Driller Easterday Owner Laurin Donovan

Depth of Well 200 FT 3 GPM

Distance of Measuring Point (M.P.) above ground 2 FT

Static Water Level (S.W.L.) below M.P. 3.5 FT

I. High Rate Pumping -- reservoir drawdown

Time pump started 8:30 Pumping rate 8 GPM

Total time 1.5 min to reach pumping water level 48 ft. below M.P.

II. Recovery pump test data - observations to be recorded every 15 minutes.

TIME	WATER LEVEL Below M.P.	PUMPING RATE Time to fill 1 gal. bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per min.)
8:30	40 FT	7' sec		8 GPM
8:45	48 FT	20' sec		3 GPM
9:00	53 FT	20' sec		3 GPM
9:15	60 FT	20' sec		3 GPM
9:30	65 FT	20' sec		3 GPM
9:45	65 FT	20' sec		3 GPM
10:00	65 FT	20' sec		3 GPM
10:15	65 FT	20' sec		3 GPM
10:30	65 FT	20' sec		3 GPM
10:45	65 FT	20' sec		3 GPM
11:00	65 FT	20' sec		3 GPM
11:15	65 FT	20' sec		3 GPM
11:30	65 FT	20' sec		3 GPM
11:45	65 FT	20' sec		3 GPM
12:00	65 FT	20' sec		3 GPM
12:15	65 FT	20' sec		3 GPM
12:30	65 FT	20' sec		3 GPM
12:45	65 FT	20' sec		3 GPM
1:00	65 FT	20' sec		3 GPM
1:15	65 FT	20' sec		3 GPM
1:30	65 FT	20' sec		3 GPM
1:45	65 FT	20' sec		3 GPM
2:00	65 FT	20' sec		3 GPM
2:15	65 FT	20' sec		3 GPM



HOWARD COUNTY HEALTH DEPARTMENT

BUREAU OF ENVIRONMENTAL HEALTH

PUMP INSTALLATION

THE FOLLOWING STATEMENT MUST BE COMPLETED BY THE HOME OWNER  
WHEN A PUMP IS INSTALLED BY A PERSON OTHER THAN THE WELL  
DRILLER:

My well driller is not to install the pump for my water well, and I  
hereby certify that it will be my responsibility to have a Pump Permit  
taken out by a registered master plumber or certified pump installer.  
It will be my responsibility to notify the Health Department before  
and during the installation so that inspections can be made by their  
representative. (Pursuant to Chapter XVII, of the Plumbing Code of  
Howard County.)

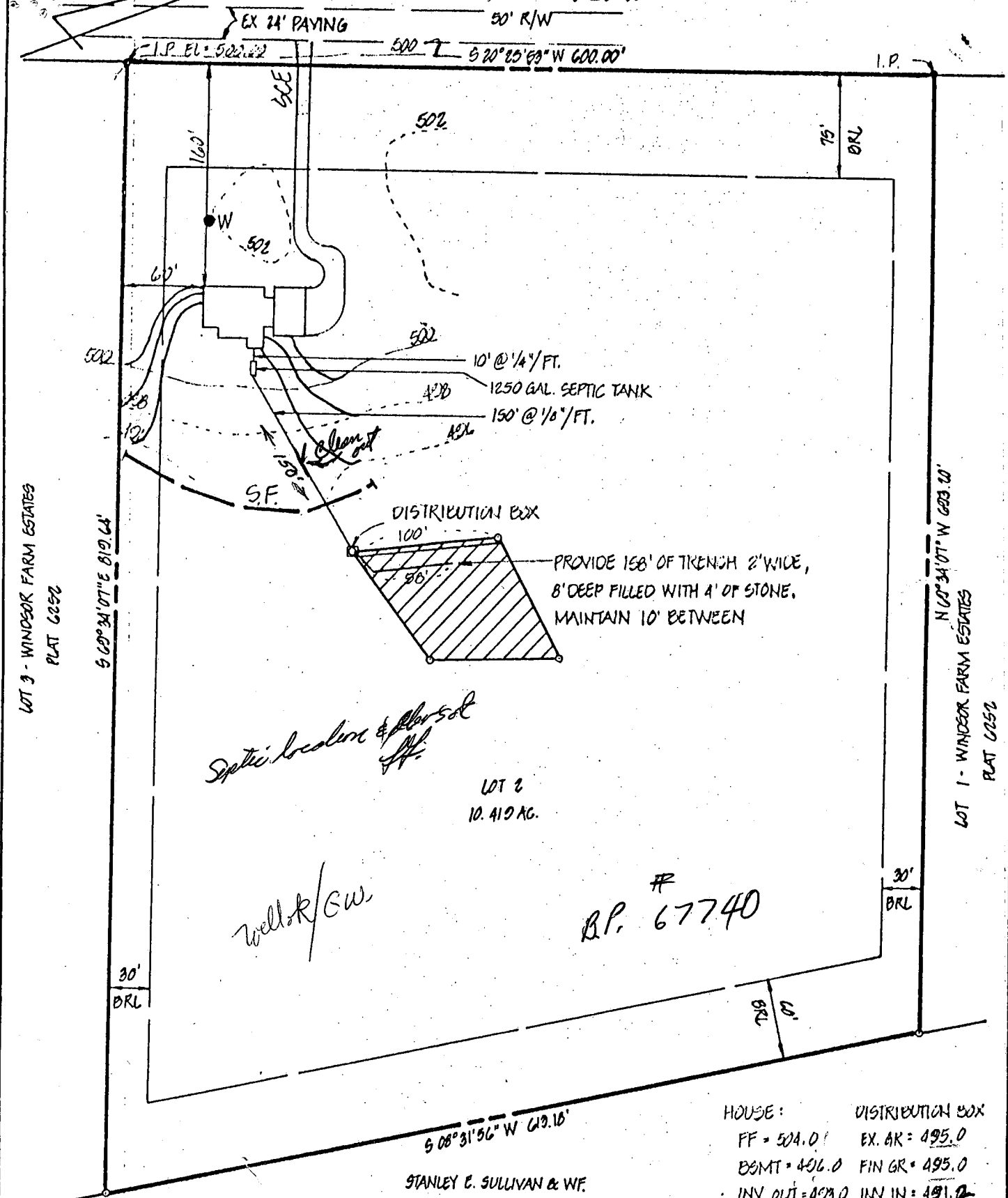
Francis Donovan  
(Name)  
1059 OMAR DR  
CROWNSVILLE, MD 21032  
(Address)

HO-81-1004  
(OEP Well Permit Number)

8 APRIL 1985  
(Date)

CR-35-262

# HOBBS ROAD



*Septic location & floor sol*

*well/cw*

LOT 2  
10.410 AC.

R.P. 67740

HOUSE:	DISTRIBUTION BOX
FF = 504.0	EX. GR = 495.0
BSMT = 496.0	FIN GR = 495.0
INV. OUT = 493.0	INV IN = 491.2
SEPTIC TANK:	
EX. GR = 500.5	
FIN GR = 499.5	
INV IN = 492.0	
INV OUT = 492.56	
WELL	
EX GR = 502.0	
FIN GR = 502.0	

- NOTES:
- TAX MAP: 14 ; P/O PARCEL: 21
  - DEED REFERENCE: 222/337
  - EX. FINING: R

STANLEY E. SULLIVAN & WF  
1042/180

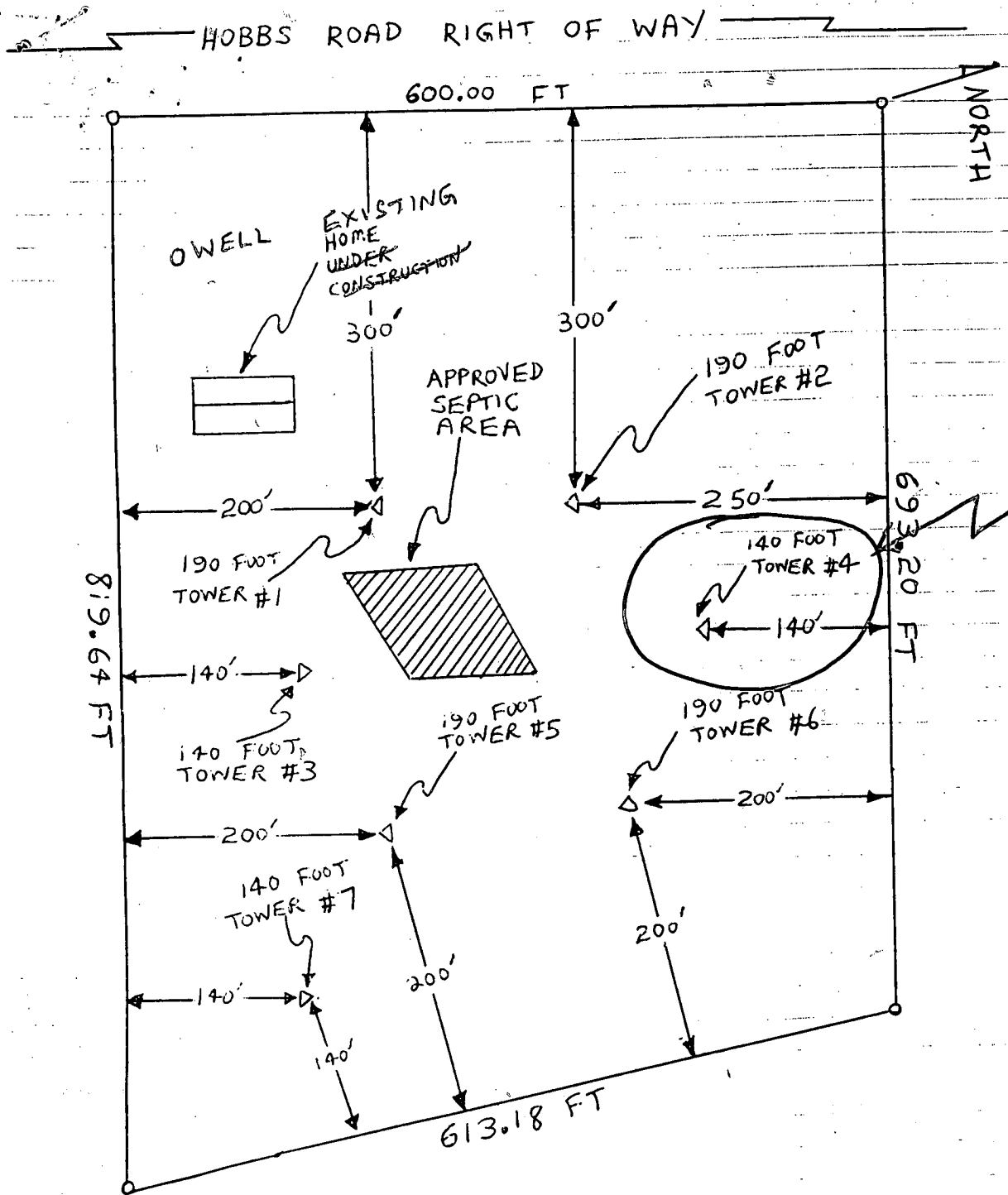
PLAT REFERENCE: "WINDSOR FARM ESTATES-LOT 1-4", PLAT 0252

TITLE: <b>GRADING STUDY</b>				
PROJECT: <b>WINDSOR FARMS ESTATES-LOT 2</b>				
LOCATION: 4TH ELECTION DISTRICT TAX MAP: 14 HOWARD CO., MD.				
SCALE: 1"=100'	DESIGNED BY:	DRAWN BY:	CHECKED BY:	DATE: SEPT. 1985
FIELD BOOK: 60	PAGE NO.:	JOB-NO.: 85245	DRAWING NO.: 1 OF 1	

**boender associates**  
inc.  
consulting engineers  
land surveyors  
land planners

COURTHOUSE SQUARE  
3565 ELLICOTT MILLS DRIVE  
ELLICOTT CITY, MD. 21043  
[301] 465-7777

5.5



TOWER  
TO BE  
REMOVED,  
REHABED,  
AND  
REINSTALLED  
9/20/99  
OK TO PROCEED  
W/CONSTRUCTION  
(SRK)

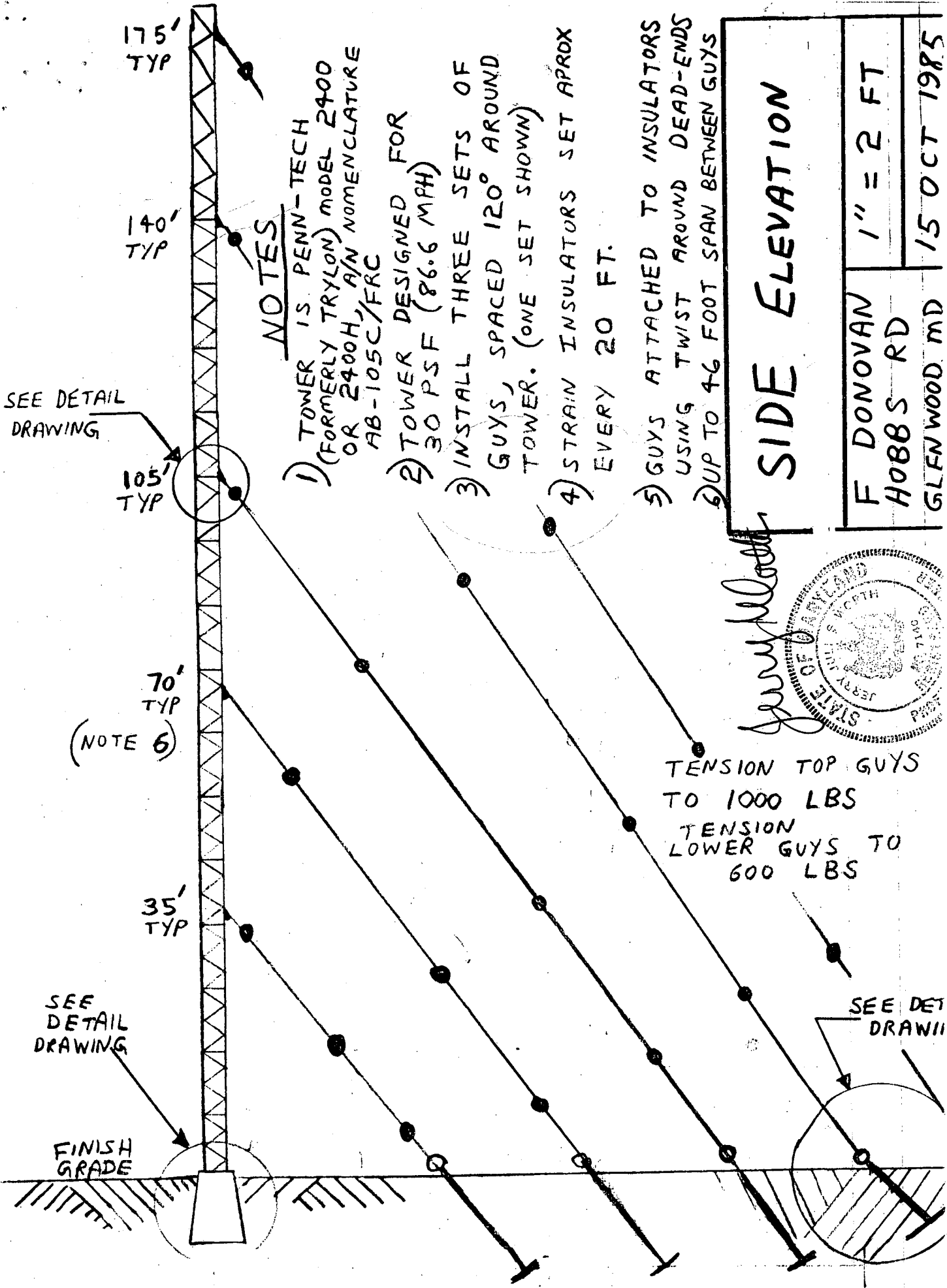
1) ALL TOWERS SHALL BE SET BACK FROM ALL PROPERTY LINES BY A DISTANCE AT LEAST EQUAL TO THEIR HEIGHT

2) NO CONSTRUCTION IN COUNTY REQUIRED <sup>FRONT, SIDE OR REAR YARD</sup> SETBACKS OR SEPTIC AREA

3) CONSTRUCTION SHALL BE IN STRICT COMPLIANCE WITH FAA STANDARDS CONCERNING PLACEMENT, MARKING AND LIGHTING OF ANTENNA STRUCTURES  
AC 70/74/60-1F

*Jerry Ellworth*

LOT #2 WINDSOR FARM ESTATES		
DISTRICT 4 MAP 14 GRID 23 PARCEL 91		
10.4 ACRES	LIBER 1356 FOLIO 555	USE R
PLOT PLAN WITH TOWERS		
F. DONOVAN 3055 HOBBS RD GLENWOOD, MD		SCALE 1 INCH = 25 FT
15 OCT 1985		
TELEPHONES		
HOME: 923-3164		
WORK: 859-4879		



**NOTES**

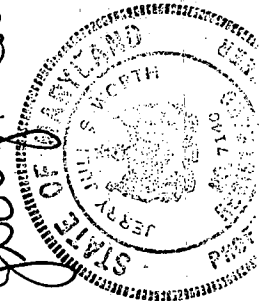
- 1) TOWER IS PENN-TECH (FORMERLY TRYLON) MODEL 2400 OR 2400H, A/N NOMENCLATURE AB-105C/FRC
- 2) TOWER DESIGNED FOR 30 PSF (86.6 MPH)
- 3) INSTALL THREE SETS OF GUYS, SPACED 120° AROUND TOWER. (ONE SET SHOWN)
- 4) STRAIN INSULATORS SET APPROX EVERY 20 FT.
- 5) GUYS ATTACHED TO INSULATORS USING TWIST AROUND DEAD-ENDS
- 6) UP TO 46 FOOT SPAN BETWEEN GUYS

**SIDE ELEVATION**

F DONOVAN  
 HOBBS RD  
 GLENWOOD MD

1" = 2 FT

15 OCT 1985



TENSION TOP GUYS  
 TO 1000 LBS  
 TENSION  
 LOWER GUYS TO  
 600 LBS

SEE DETAIL  
 DRAWING

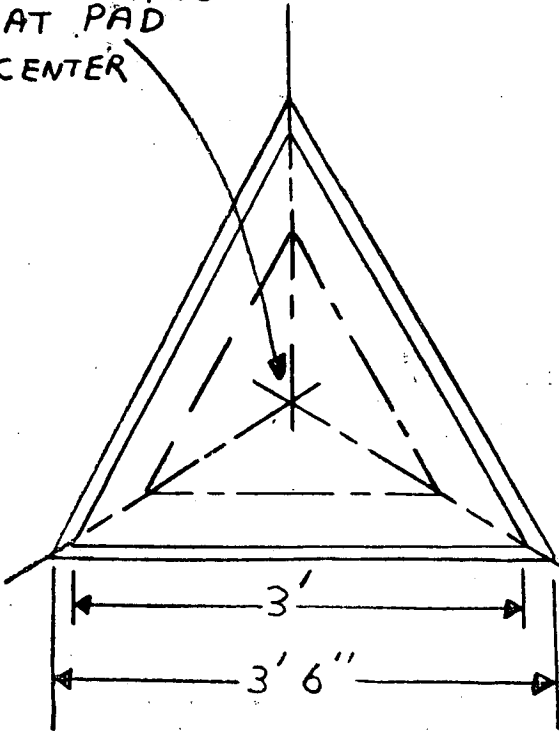
SEE DET  
 DRAWING

FINISH  
 GRADE

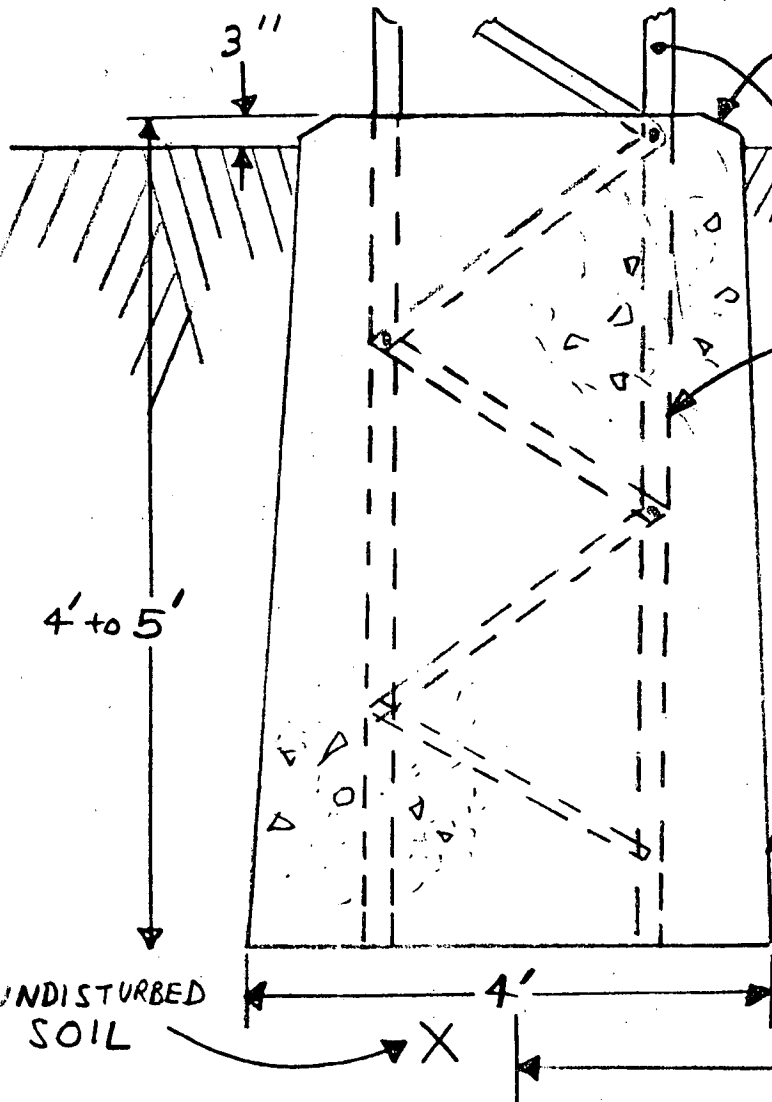
(NOTE 6)

SEE DETAIL  
 DRAWING

TOWER AXIS  
AT PAD  
CENTER



Tower Base Detail	SCALE: 3/4" = 1 FT	15 OCT 1985
	F DONOVAN HOBBS RD GLENWOOD, MD	



BASE CROWNED TO ENHANCE WATER RUNOFF

FINISH GRADE

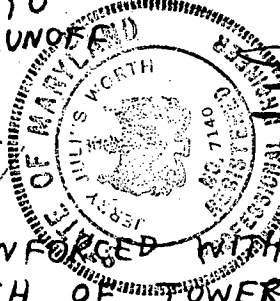
BASE REINFORCED WITH 5' LENGTH OF TOWER

COPPER CLAD GROUND ROD  
5/8" DIA X 8' BONDED  
TO SIDE RAIL  
WITH #4 AWG  
COPPER WIRE

CONCRETE VOLUME  
APROX 1 CU YD  
1 PART CEMENT  
2 PARTS SAND  
4 PARTS STONE

7 1/2 GAL WATER PER BAG  
OF CEMENT

160' TYP TO GUY ANCHORS



*Jerry J. Worth*

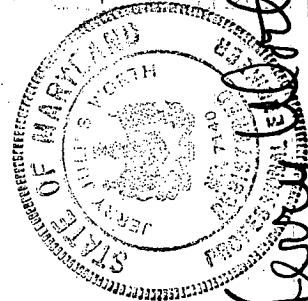
THREE 1/4" GUY CLAMPS  
ON EACH GUY  
TERMINATION  
@ 5 INCH SPACING

GUY WIRE ANCHOR

F. DONOVAN  
HOBBS RD  
GLENWOOD, MD

3/4" = 1 FT

15 OCT 1985



5/8" x 8' ANCHOR ROD  
WITH FORGED EYE  
HOT DIP GALVANIZED

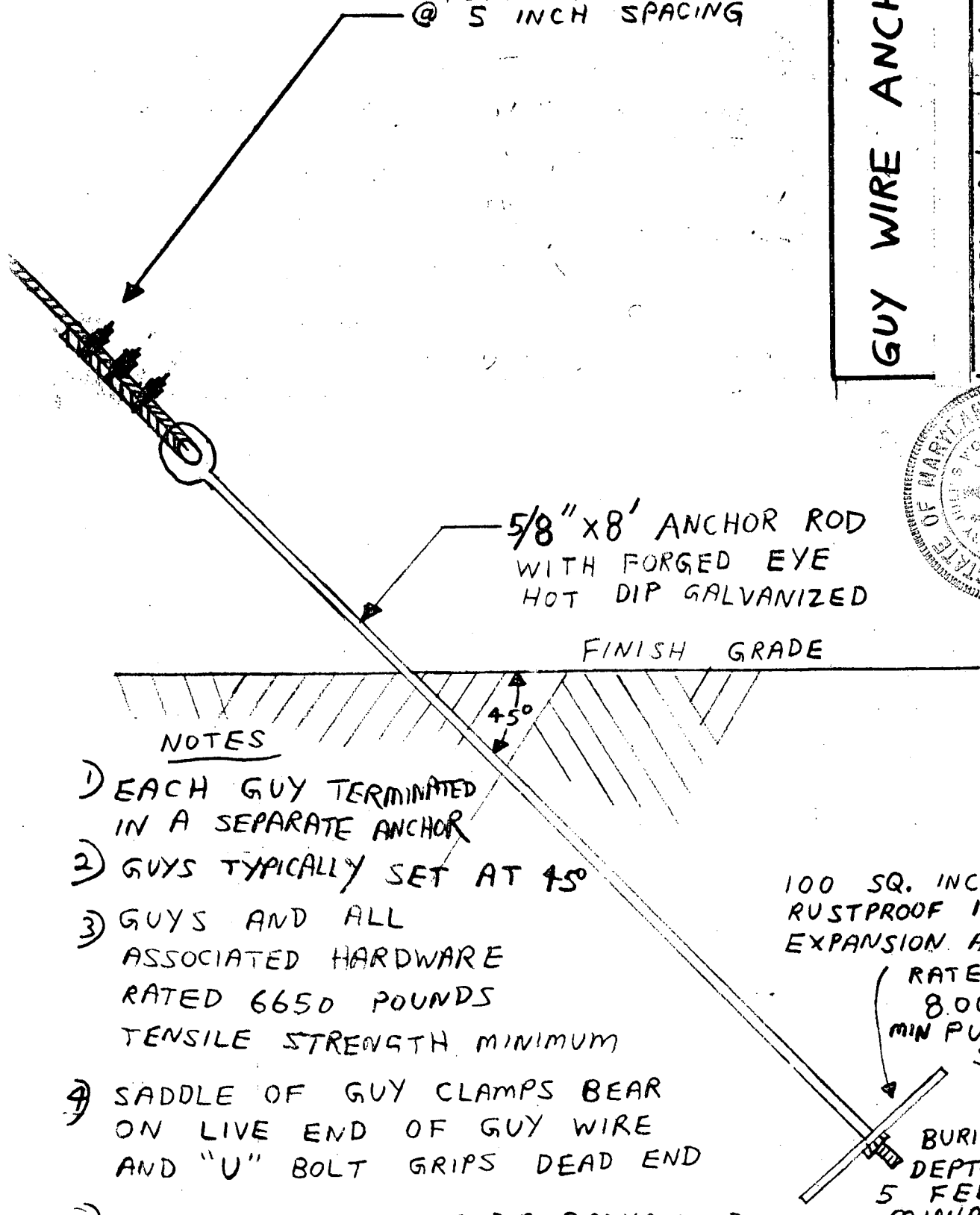
FINISH GRADE

NOTES

- 1) EACH GUY TERMINATED IN A SEPARATE ANCHOR
- 2) GUYS TYPICALLY SET AT 45°
- 3) GUYS AND ALL ASSOCIATED HARDWARE RATED 6650 POUNDS TENSILE STRENGTH MINIMUM
- 4) SADDLE OF GUY CLAMPS BEAR ON LIVE END OF GUY WIRE AND "U" BOLT GRIPS DEAD END
- 5) ALL HARDWARE HOT DIP GALVANIZED

100 SQ. INCH  
RUSTPROOF IRON  
EXPANSION ANCHOR  
RATED FOR  
8,000 LBS  
MIN PULL IN  
SAND

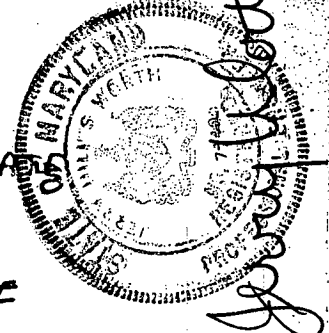
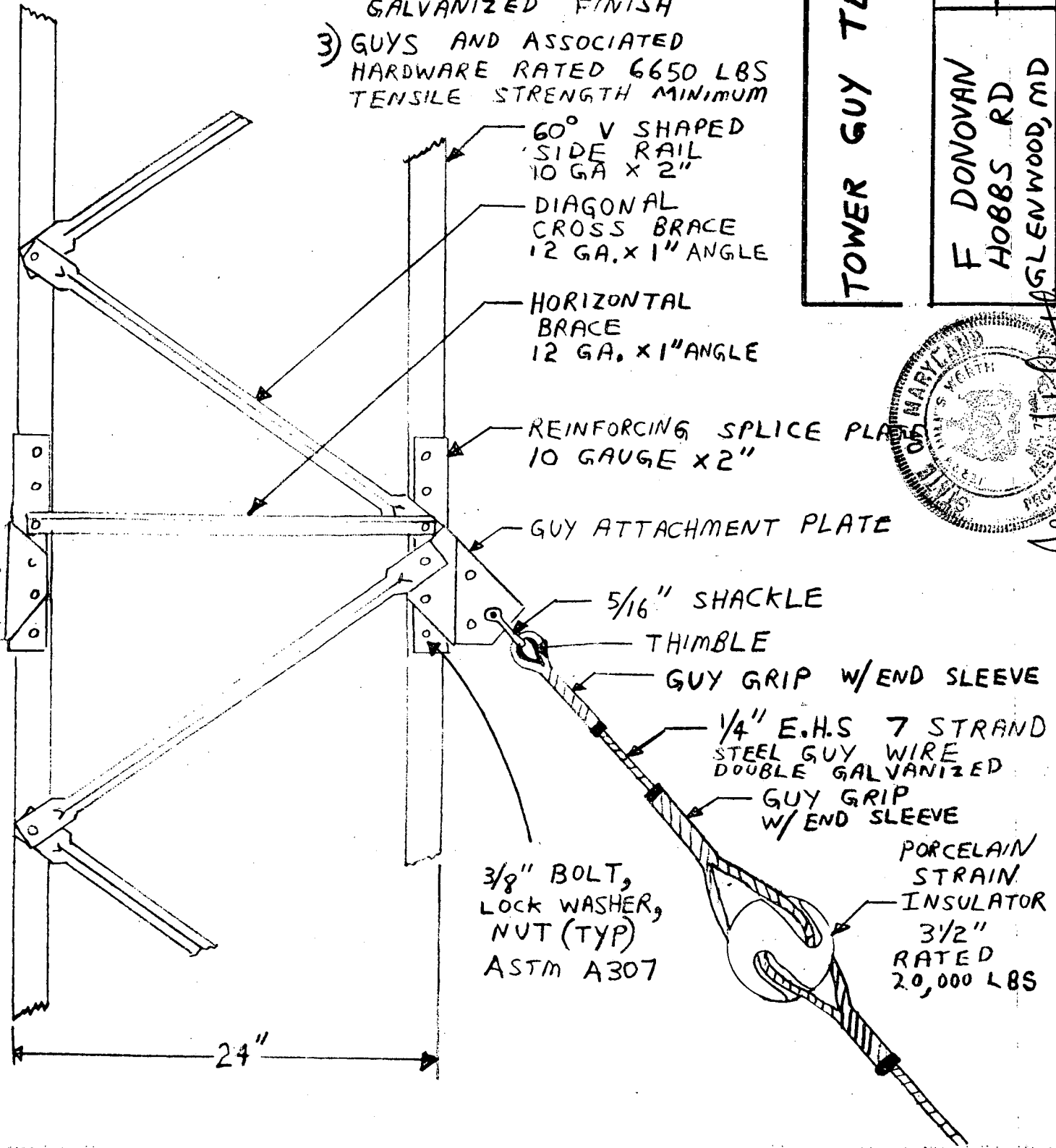
BURIED TO  
DEPTH OF  
5 FEET  
MINIMUM



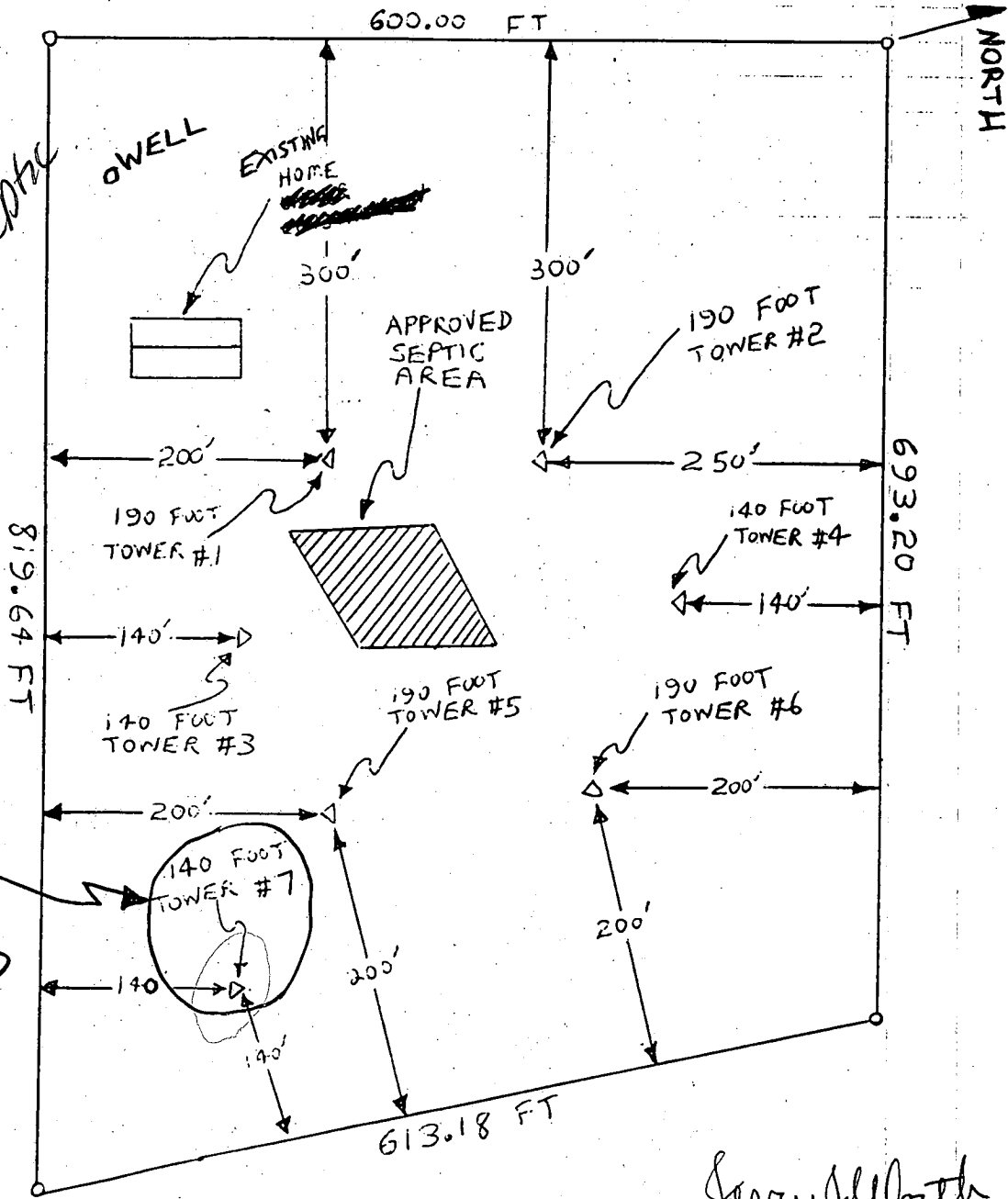
NOTES

- 1) ALL HARDWARE HOT DIP GALVANIZED
- 2) STRUCTURAL MEMBERS ARE COPPER-BEARING STRUCTURAL STEEL, HOT DIP GALVANIZED FINISH
- 3) GUYS AND ASSOCIATED HARDWARE RATED 6650 LBS TENSILE STRENGTH MINIMUM

TOWER GUY TERMINATION	1" = 8"	15 OCT 1985
	F DONOVAN HOBBS RD GLENWOOD, MD	



HOBBS ROAD RIGHT OF WAY



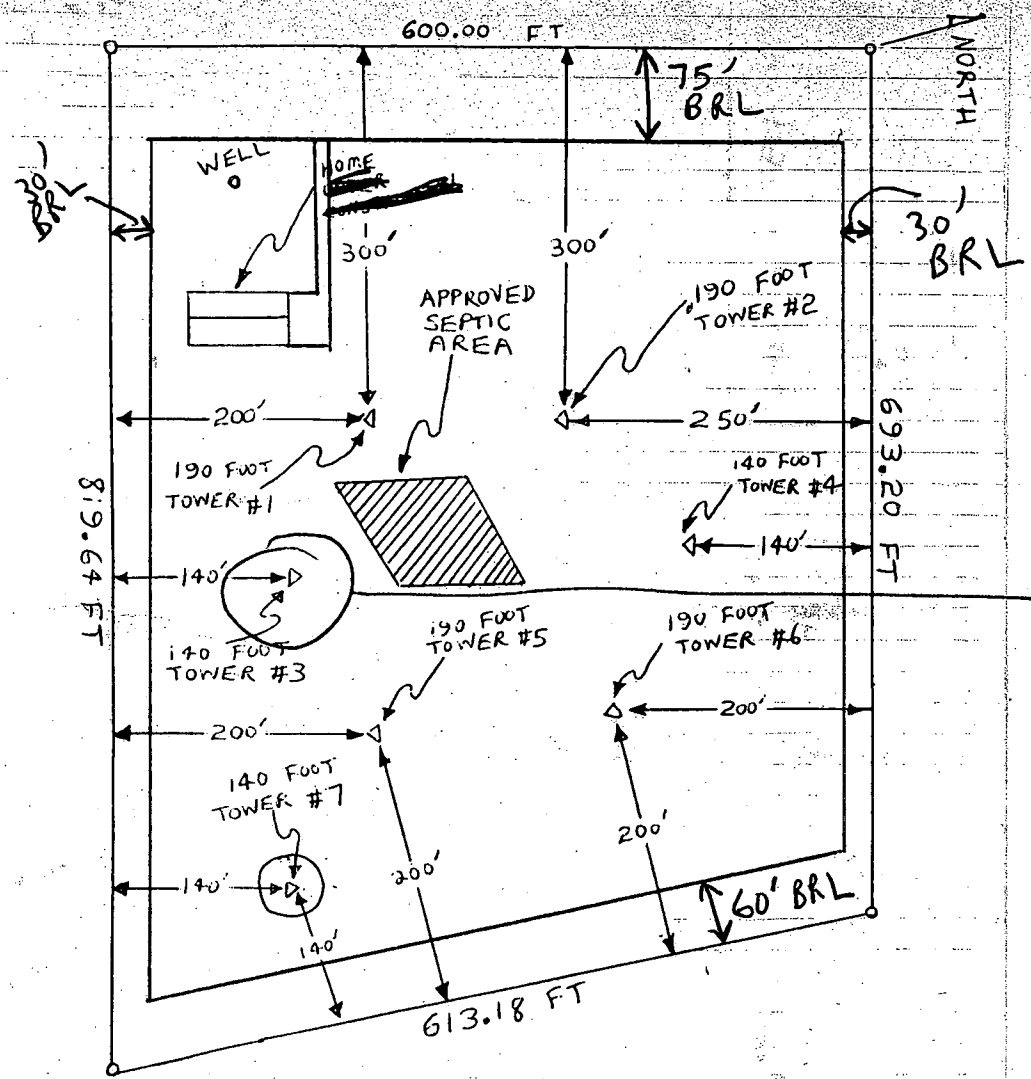
800/29989  
 5/1/01  
 Shown tower  
 location will have  
 no impact on ex. well/septic  
 (140')

EXISTING  
 TOWER  
 TO BE  
 REMOVED,  
 REHABED  
 AND  
 REINSTALLED

*Jerry J. North*

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LOT #2 WINDSOR FARM ESTATES		
DISTRICT 4	MAP 14	GRID 23 PARCEL 91
10.4 ACRES	LIBER 1356 FOLIO 555	USE R
PLOT PLAN WITH TOWERS		
F. DONOVAN		SCALE
3055 HOBBS RD		1 INCH = 25 FT
GLENWOOD, MD		15 OCT 1985
TELEPHONES		
HOME:	<del>303</del> 316-4301	854 6619
WORK:	<del>303</del> 240 456 5509	



REMOVE  
REHAB  
REINSTALL  
THIS  
TOWER

800141763

5-19-03  
No well or septic conflicts,  
however, need to keep  
heavy vehicles off  
septic easement. Stake SDA and  
enclose w/ tape. (RN)

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*Jerry Math*

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