

05 43 6818

LAYOUT 2/20/04-11 AM INSP 4 3/12/04
INSP 2 2/23/04 ~~Cancelled for~~ INSP 5 3/18/04 AM
INSP 3 2/27/04 INSP 6 3

ISSUE DATE: 2/2/2004

P 520045

APPROVAL DATE: 6/29/04

A 511371-C

PERMIT INDEXED

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

~~AD Sewer found~~ **05-436818**

Fogles Septic Clean, Inc IS PERMITTED TO INSTALL ALTER

ADDRESS: 580 Obrecht Rd, Sykesville PHONE NUMBER: 410-795-5670

SUBDIVISION: Koandah Garden Estates LOT NUMBER: 21

ADDRESS: 6821 Koandah Garden Court PROPERTY OWNER: Grady Roberson

SEPTIC TANK CAPACITY (GALLONS): 1500 OUTLET BAFFLE FILTER REQUIRED

PUMP CHAMBER CAPACITY (GALLONS): 1500 COMPARTMENTED TANK REQUIRED

NUMBER OF BEDROOMS: 4

SQUARE FEET PER BEDROOM: 240

LINEAR FEET OF TRENCH REQUIRED: 300 HOUSE SERVED BY PUBLIC WATER

TRENCHES:	Trench to be 3.0 feet wide. Inlet 1.5 feet below original grade. Bottom maximum depth 3.5 feet below original grade. Effective area begins at 2.0 feet below original grade. 2.0 feet of stone below distribution pipe.
LOCATION:	Place the distribution box as shown on the approved site plan. Run the trenches on contour. Inspector must be present for open trench installation.
NOTES:	Layout inspection critical. SHALLOW SYSTEM ONLY

PLANS APPROVED: Steven R. Krieg/Barry Glotfelty 2/2/04 OK (BB) DATE: 7/2/03

NOTES: PERMIT VOID AFTER 2 YEARS
CONTRACTOR IS RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS
WATERTIGHT SEPTIC TANKS REQUIRED
ALL PARTS OF SEPTIC SYSTEM SHALL BE 100 FEET FROM ANY WATER WELL UNLESS SPECIFICALLY AUTHORIZED
MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS UNLESS SPECIFICALLY AUTHORIZED
CONTRACTOR RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE REGULATIONS, GUIDELINES AND THE TERMS OF THIS PERMIT

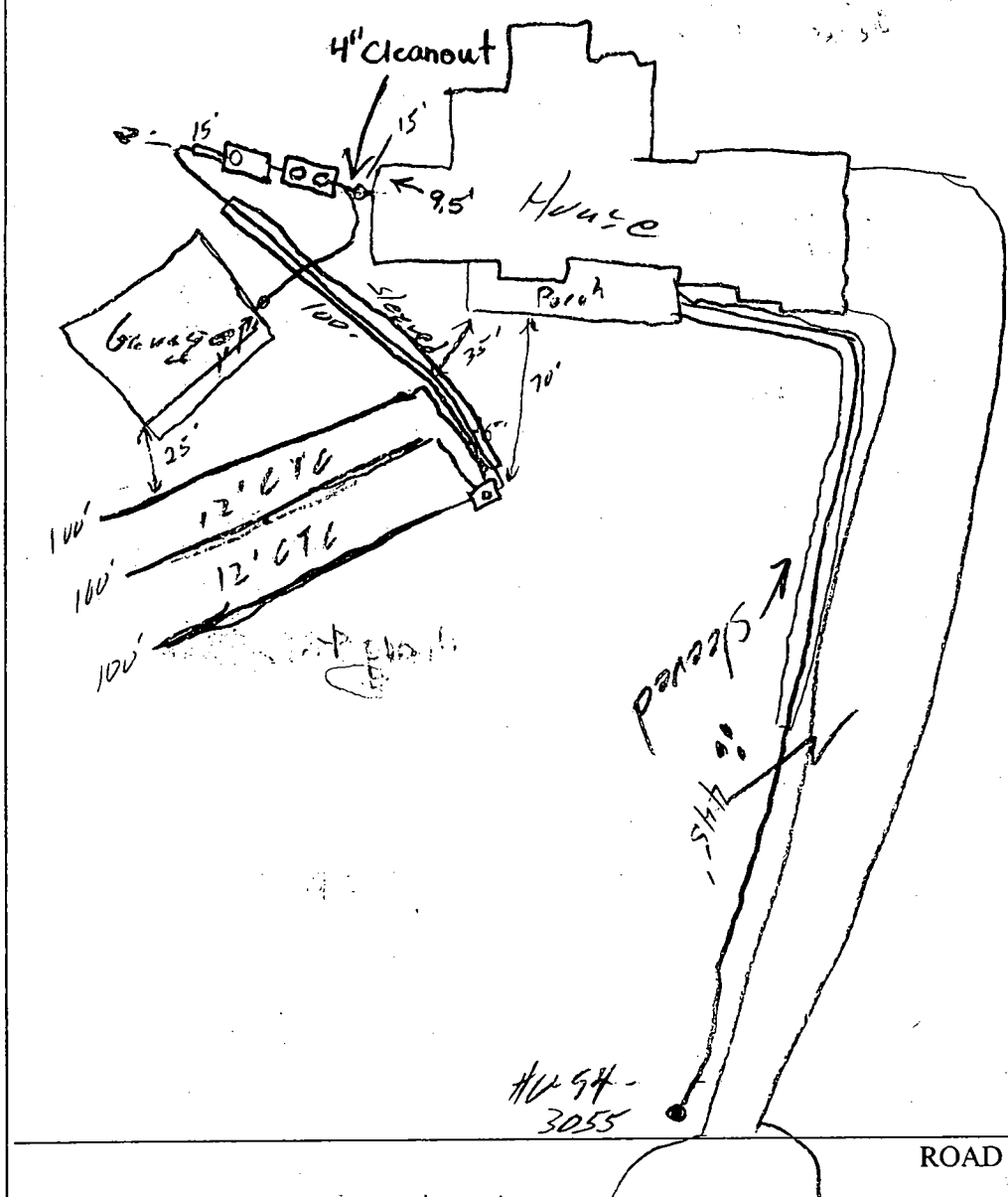
**NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS
RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM
PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT
ALL 410-313-2640 FOR INSPECTION OF SEPTIC SYSTEM**

**BUILDING PERMIT SIGNED
AND RETURNED**

7/2/03 800142743 DETACHED GARAGE/WORKSHOP
2/9/04 800146059 1000 GAL. LIG PROPANE TANK

A511371-C

NOT TO SCALE



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3	1.5	3.5
NUMBER OF TRENCHES		3
TOTAL LENGTH		300'
ABSORPTION AREA		900 sq ft
DISTRIBUTION BOX LEVEL		<input checked="" type="checkbox"/>
DISTRIBUTION BOX BAFFLE		<input checked="" type="checkbox"/>
DISTRIBUTION BOX PORT		<input checked="" type="checkbox"/>

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL <input checked="" type="checkbox"/>	
CAPACITY	1500 GAL
SEAM LOC	Top
TANK LID DEPTH	3'
BAFFLES	<input checked="" type="checkbox"/>
BAFFLE FILTER	<input checked="" type="checkbox"/>
MANHOLE LOC	F&B
6" PORT LOC	—
WATERTIGHT TEST	—
SEPTIC TANK 2 LEVEL <input checked="" type="checkbox"/>	
CAPACITY	1500 GAL
SEAM LOC	Top
TANK LID DEPTH	3'
BAFFLES	<input checked="" type="checkbox"/>
BAFFLE FILTER	—
MANHOLE LOC	Back
6" PORT LOC	—
WATERTIGHT TEST	—

PRE-CONSTRUCTION 2/20/04 - SRA staked, contours accurate. Install (3) 100' trench on left side of SRA 10' CTC. (SO)

INSTALLATION 2/27/04 - Trenches & D.B. installed. OK to cover trenches. (SO)

3/12/04 Tanks haven't arrived. Water at 7.5'-8' in bottom of tank holes. (BB)

3/15/04 - OK to cover all work. Pump & Alarm tests needed. (SO)

6/29/04 Pump & Alarm test OK (KJB)

FINAL INSPECTOR K. Bell

DATE OF APPROVAL 6/29/04

GENERIC TANKS OVERLIES
 GENERIC TANKS OVERLIES



PARCEL A
PLAT No. 15632

LOT 29
PLAT No. 6700

LOT 21
PLAT No. 15632
KOANDAH GARDENS ESTATES
1.3774 AC.±

PARCEL A
PLAT No. 15632

LOT 19
PLAT No. 15632

2/2/04
Wall Check O.K.

LOT 20 (BB)
PLAT No. 15632

OPEN SPACE
PLAT No. 15632

EX. WELL
(HO-94-3055)

NOTE:

THE EXISTING WELL SHOWN ON THIS PLAN WITH THE TAG No. OF (HO-94-3055) WAS FIELD LOCATED BY NJR & ASSOC., LLC. AND IS ACCURATELY SHOWN.

PUBLIC ACCESS PLACE
PLAT No. 15632
KOANDAH GARDENS

I HEREBY CERTIFY THAT ENCROACHMENTS ARE LOCATED AS SHOWN HEREON AND TO THE BEST OF MY INFORMATION, PROFESSIONAL KNOWLEDGE AND BELIEF, THERE ARE NO ENCROACHMENTS EXCEPT AS SHOWN.



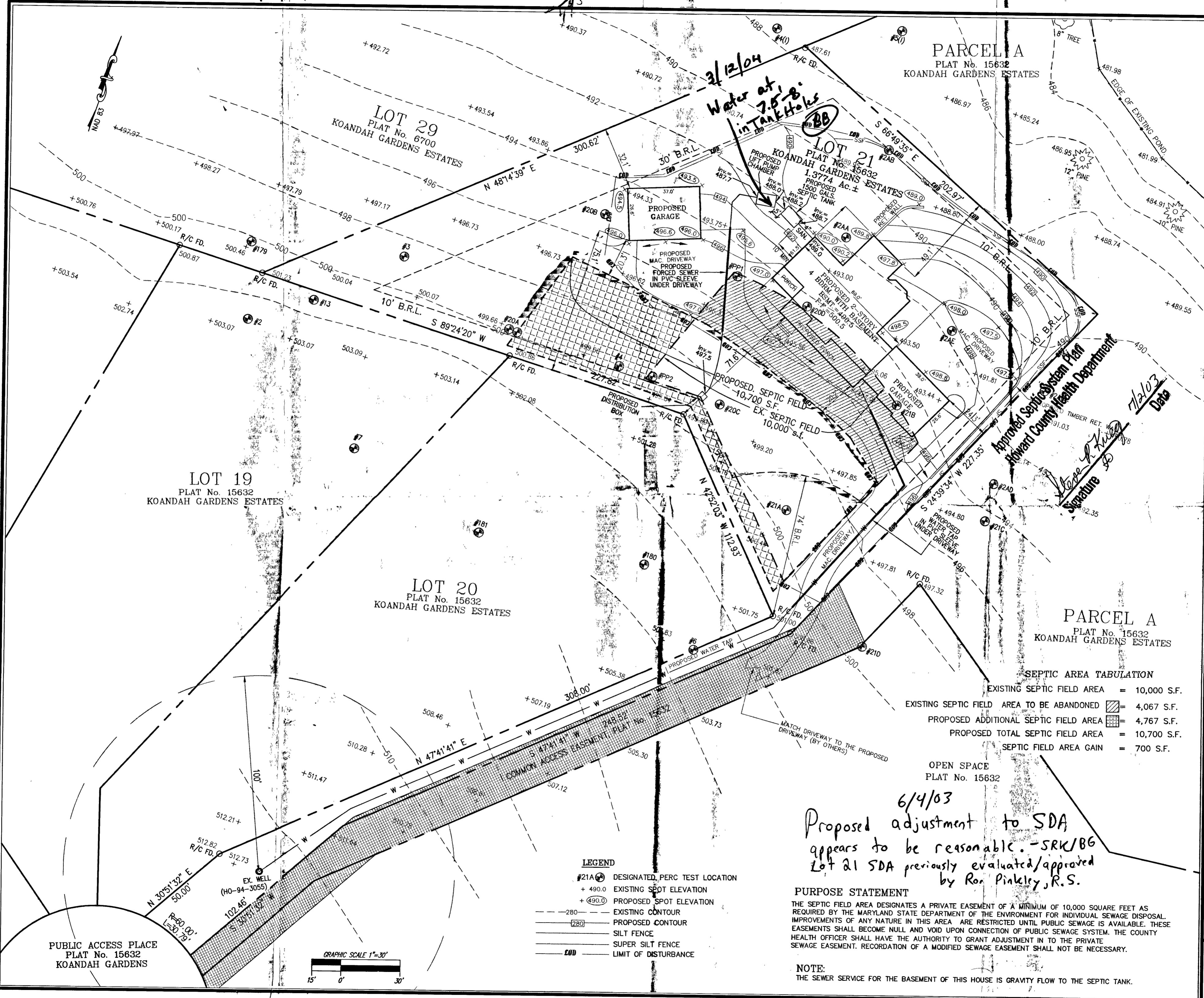
WALL CHECK

LOT 21
PLAT No. 15632
KOANDAH GARDENS ESTATES
HOWARD COUNTY, MARYLAND
SCALE: 1" = 80' DATE: MAY 22, 2003

JOB No.
2364

NJR & ASSOCIATES, LLC

360
85
45



3/12/04
Water at
7.5' in
TankHoles

PARCEL A
PLAT No. 15632
KOANDAH GARDENS ESTATES

LOT 29
PLAT No. 6700
KOANDAH GARDENS ESTATES

LOT 21
PLAT No. 15632
KOANDAH GARDENS ESTATES
1.3774 Ac. ±

LOT 19
PLAT No. 15632
KOANDAH GARDENS ESTATES

LOT 20
PLAT No. 15632
KOANDAH GARDENS ESTATES

PARCEL A
PLAT No. 15632
KOANDAH GARDENS ESTATES

SEPTIC AREA TABULATION

EXISTING SEPTIC FIELD AREA	=	10,000 S.F.
EXISTING SEPTIC FIELD AREA TO BE ABANDONED	=	4,067 S.F.
PROPOSED ADDITIONAL SEPTIC FIELD AREA	=	4,767 S.F.
PROPOSED TOTAL SEPTIC FIELD AREA	=	10,700 S.F.
SEPTIC FIELD AREA GAIN	=	700 S.F.

OPEN SPACE
PLAT No. 15632

6/4/03
Proposed adjustment to SDA
appears to be reasonable. -SRK/BG
Lot 21 SDA previously evaluated/approved
by Ron Pinkley, R.S.

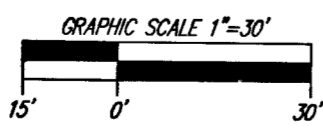
PURPOSE STATEMENT

THE SEPTIC FIELD AREA DESIGNATES A PRIVATE EASEMENT OF A MINIMUM OF 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION OF PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENT IN TO THE PRIVATE SEWAGE EASEMENT. RECORDATION OF A MODIFIED SEWAGE EASEMENT SHALL NOT BE NECESSARY.

NOTE:

THE SEWER SERVICE FOR THE BASEMENT OF THIS HOUSE IS GRAVITY FLOW TO THE SEPTIC TANK.

- LEGEND
- #21A ⊕ DESIGNATED, PERC TEST LOCATION
 - + 490.0 EXISTING SPOT ELEVATION
 - + 490.0 PROPOSED SPOT ELEVATION
 - 280- EXISTING CONTOUR
 - 280- PROPOSED CONTOUR
 - SILT FENCE
 - SUPER SILT FENCE
 - LIMIT OF DISTURBANCE



PUBLIC ACCESS PLACE
PLAT No. 15632
KOANDAH GARDENS

PLAN PREPARED BY:
NJR & ASSOCIATES, LLC.
LAND SURVEYING AND PLANNING
1818 MONTVIDEO ROAD
JESSUP, MARYLAND 20794
TEL: (240) 508-3800 FAX: (410) 799-5623

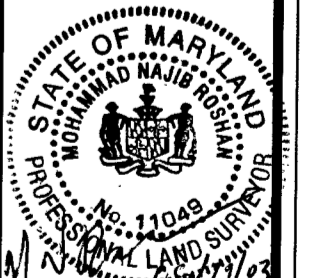
SEPTIC FIELD RELOCATION PLAN OF:
LOT 21, KOANDAH GARDENS ESTATES
PLAT No. 15632
TAX MAP 34, GRID 23, PARCEL 78
HOWARD COUNTY, MARYLAND

SCALE: 1"=30'
DRAWN: NR
CHECKED: SW
DATE: 05/29/03

PROJ. NO. 2364

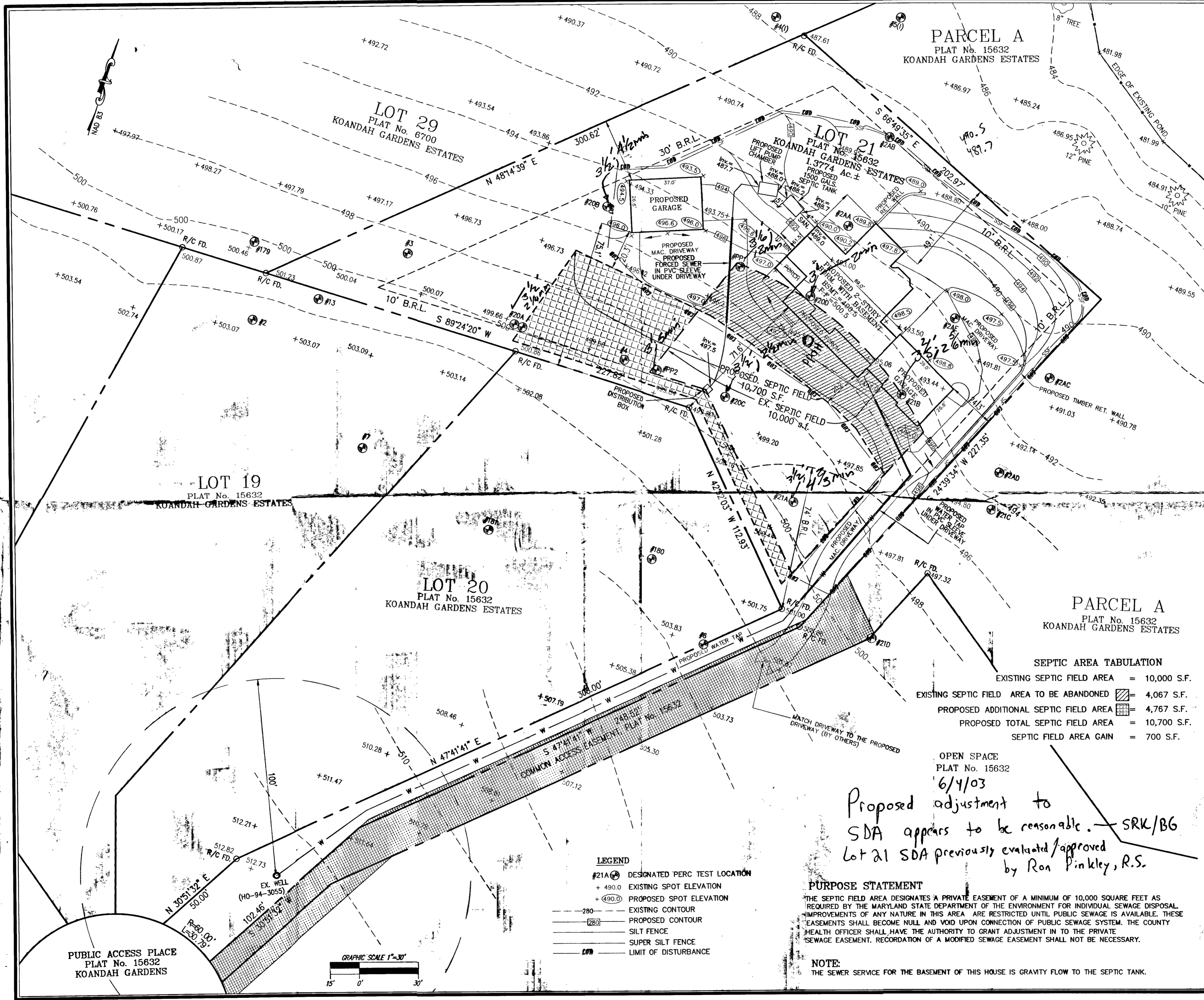
REVISIONS

NO.	DESCRIPTION	DATE
1	HLTH. DEPT. COMMENTS	5/29/03



SEPTIC FIELD RELOCATION PLAN

SHEET: 1
OF: 1



PLAN PREPARED BY:
NJR & ASSOCIATES, LLC.
 LAND SURVEYING AND PLANNING
 1813 MONTVIDEO ROAD
 JESSUP, MARYLAND 20794
 TEL: (240)508-3200 FAX: (410)799-5553

SEPTIC FIELD RELOCATION PLAN OF:
LOT 21, KOANDAH GARDENS ESTATES
 PLAT No. 15632
 TAX MAP 34, GRID 23, PARCEL 78
 HOWARD COUNTY, MARYLAND

SCALE: 1"=30'
 DRAWN: NR
 CHECKED: SW
 DATE: 05/29/03

PROJ. NO. 2364

REVISIONS		
NO.	DESCRIPTION	DATE
1	HEALTH DEPT. COMMENTS	5/29/03



SEPTIC FIELD RELOCATION PLAN

SHEET: 1
 OF: 1

PARCEL A
 PLAT No. 15632
 KOANDAH GARDENS ESTATES

LOT 29
 PLAT No. 6700
 KOANDAH GARDENS ESTATES

LOT 21
 PLAT No. 15632
 KOANDAH GARDENS ESTATES
 1.3774 Ac. ±
 PROPOSED 1500 GALS. SEPTIC TANK

LOT 19
 PLAT No. 15632
 KOANDAH GARDENS ESTATES

LOT 20
 PLAT No. 15632
 KOANDAH GARDENS ESTATES

PARCEL A
 PLAT No. 15632
 KOANDAH GARDENS ESTATES

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OPEN SPACE
 PLAT No. 15632
 6/4/03

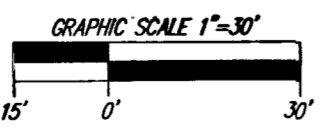
Proposed adjustment to SDA appears to be reasonable. — SRK/BG
 Lot 21 SDA previously evaluated/approved by Ron Pinkley, R.S.

- LEGEND**
- #21A ⊙ DESIGNATED PERC TEST LOCATION
 - + 490.0 EXISTING SPOT ELEVATION
 - + (490.0) PROPOSED SPOT ELEVATION
 - - - - - EXISTING CONTOUR
 - - - - - PROPOSED CONTOUR
 - - - - - SILT FENCE
 - - - - - SUPER SILT FENCE
 - - - - - LIMIT OF DISTURBANCE

PURPOSE STATEMENT

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NOTE:
 THE SEWER SERVICE FOR THE BASEMENT OF THIS HOUSE IS GRAVITY FLOW TO THE SEPTIC TANK.



PUBLIC ACCESS PLACE
 PLAT No. 15632
 KOANDAH GARDENS

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: DELUXE PLUMBING Telephone #: 410-549-2118
Address: 219 SILVER RIV VILLAGE RD.
WRESTMINTON MD 21158

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer
License # and name of individual responsible for the field installation:

Name (Print): DAVID W. WISNIEWSKI SR. License# 8494

*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: CRAIG ROBERT Telephone #:
Subdivision: KOONDAN GARDEN ESTATES Lot #: 21 Well Tag #: HO-94-3055
Site Address: 621 KOONDAN GARDENS CT.
HIGHLAND MD 20777

Submersible Pump Data Pitless Adapter Well Cap and Electric Conduit
Make: GARDNER Make: HARMAN Two piece watertight cap: YES
Model #: SG510412 Model #: PT 800 Screened, vented well cap: YES
Pump Capacity 5 GPM Depth: 42" (36" min) Cap secured to casing: YES
Well Yield: 1.5 GPM NSF approved Conduit min 18" B.G.: YES
Depth of well encountered at time of pump installation: (feet) Conduit secured to well cap: YES
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 YES

Piping to house House Connection
Type: CEIFFER PVC sleeved to undisturbed soil at wall penetration: YES
PSI: 160 (160 psi min) Approximate length of sleeve: 6'
Depth of supply line: 42 (36" min) Sleeve caulked and sealed properly: YES

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 3-10-04 date

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

Date Insp. Requested: 3/11/2004 PM Date Insp. Approved: 3/11/2004
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

C1 1605 SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY. PLEASE TYPE

THIS REPORT MUST BE SUBMITTED AFTER WELL IS COMPLETED. ON SRU 9/26/01 COUNTY NUMBER A51137K

ST/CO USE ONLY DATE Received MM DD YY 8 13

DATE WELL COMPLETED MM DD YY 4 18 2001

Depth of Well 22 445 26 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" No 94 3055

OWNER Sandborn James STREET OR RFD Roundah Ct. TOWN HIGHLAND SUBDIVISION Roundah Gardens Estate SECTION LOT 21

WELL LOG Table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes entries for Sand and Gray Mica Rock.

GROUTING RECORD Form with fields: WELL HAS BEEN GROUTED (Y), TYPE OF GROUTING MATERIAL (CM, BC), NO. OF BAGS, NO. OF POUNDS, GALLONS OF WATER, DEPTH OF GROUT SEAL.

CASING RECORD Form with fields: casing types (ST, CO, PL, OT), MAIN CASING TYPE (ST), Nominal diameter (6), Total depth (48).

OTHER CASING (if used) Form with fields: diameter, depth.

SCREEN RECORD Form with fields: screen type (ST, BR, HO, PL, OT), screen diameter (56, 60).

PUMPING TEST Form with fields: HOURS PUMPED (6), PUMPING RATE (1.5), METHOD USED TO MEASURE PUMPING RATE (Bucket), WATER LEVEL (BEFORE PUMPING 42, WHEN PUMPING 340), TYPE OF PUMP USED (S).

PUMP INSTALLED Form with fields: DRILLER INSTALLED PUMP (NO), TYPE OF PUMP INSTALLED (S), CAPACITY: GALLONS PER MINUTE (31-35), PUMP HORSE POWER (37-41), PUMP COLUMN LENGTH (43-47), CASING HEIGHT (+ above, - below).

WELL HYDROFRACTURED Form with fields: YES (Y), NO (N).

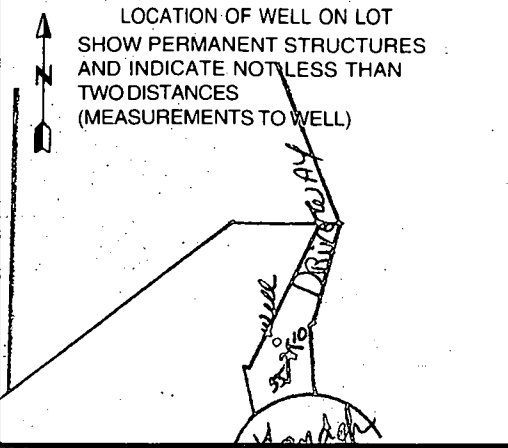
CIRCLE APPROPRIATE LETTER Form with options: A (ABANDONED), E (ELECTRIC LOG), P (TEST WELL CONVERTED).

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT...

DRILLERS LIC. NO. 1 MSD024 DRILLERS SIGNATURE (James J. Maxine) LIC. NO. 1 MSD027 SITE SUPERVISOR SIGNATURE (Randy Maxine)

DEPTH (nearest ft.) Form with fields: 1-21, 23-36, 38-51, SLOT SIZE 1, 2, 3, DIAMETER OF SCREEN (56, 60).

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 TELESCOPE CASING LOG INDICATOR OTHER DATA



FIELD DATA SHEET
HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO - 94-3055
 Location of property (road) Koondah Ct
 Subdivision Koondah Garden Est. Lot 21 Block Plat Sec.
 Well Driller Joseph Mayne Owner James Sandhorn
 Depth of well 445'
 Distance of measuring point (M.P.) above ground 2'
 Static water level (S.W.L.) below M.P. 42'

I. High rate pumping -- reservoir drawdown

Time pump started 8:30 Pumping rate 15 gpm.
 Total time 45 min to reach pumping water level 340 ft. below M.P.

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

TIME (in 15 minute intervals)	WATER LEVEL below M.P.	PUMPING RATE time to fill 5/1 gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
8:45	170'	4 sec.	N/A	15 gpm.
9:00	290	5		12
9:15	340	6		10
9:30	338	40		1.5
9:45	338	40		1.5
10:00	339	40		1.5
10:15	338	40		1.5
10:30	337	40		1.5
10:45	337	40		1.5
11:00	337	40		1.5
11:15	337	40		1.5
11:30	337	40		1.5
11:45	337	40		1.5
12:00	337	40		1.5
12:15	337	40		1.5
12:30	337	40		1.5
12:45	336	40		1.5
1:00	336	40		1.5
1:15	336	40		1.5
1:30	336	40		1.5
1:45	336	40		1.5
2:00	336	40		1.5
2:15	336	40		1.5
2:30	336	40		1.5
HD-2242:45	336	40		1.5
3:00	336	40		1.5
3:15	336	40		1.5

B 1	8492	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND PERMIT TO DRILL WELL please print or type	STATE PERMIT NUMBER HO-94-3055 <small>fill in this form completely</small>
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OWNER INFORMATION

Date Received (APA) 3/15/01

8 MM DD YY 13

15 Last Name Sandborn Owner First Name James 34

36 Street or RFD 4967 Ten Oaks Rd 55

57 Town Dorton State MD Zip 21036 76

LOCATION OF WELL

8 COUNTY Howard 21

23 SUBDIVISION Koondah Gardens Estate 42

SECTION 44 46 LOT 21 48 50

52 NEAREST TOWN Highland 71

MILES FROM TOWN (enter 0 if in town) 0 73 MI 76 77 78

DRILLER INFORMATION

Driller's Name Joseph L Mayne M S D O 24 76 License No. 81

Firm Name Joseph L. Mayne Well Drilling

Address 5512 Ridge Rd Mt. Airy Md 21778

Signature Joseph L Mayne Date 3/15/2001

DIRECTION OF WELL FROM TOWN (CIRCLE BOX)

NEAR WHAT ROAD Koondah Ct. 30

OFF NE Side of Route 216

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

34 25 37 DISTANCE FROM ROAD FT 38 39

ENTER FT OR MI

TAX MAP: 34 BLK: 23 PARCEL 78

WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.) 5 8 12

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 500 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

OBSERVATION, MONITORING

GEO-THERMAL

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

COUNTY NAME Howard COUNTY NO. A5113710

STATE SIGNATURE _____ INSERT S →

DATE ISSUED 3/29/01 Donald P. Kelly 41 EXP. DATE 3/29/02

43 MM DD YY 48 CO SIGNATURE

NORTH GRID 491 000 EAST GRID 0810 000

50 55 57 63

APPROXIMATE DEPTH OF WELL 300 FEET 24 28

APPROXIMATE DIAMETER OF WELL 6 INCH NEAREST

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER

- well
-
-

WRITE THE BOX NUMBER FROM THE MAP HERE

E 810

N 490

000
000

METHOD OF DRILLING (circle one)

BORED (or Augered) JETTED Jetted & DRIVEN

30 AIR-ROTARY AIR-PERCussion ROTARY (Hydraulic Rotary)

37 CABLE REVerse-ROTary DRive-POINT

other _____

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

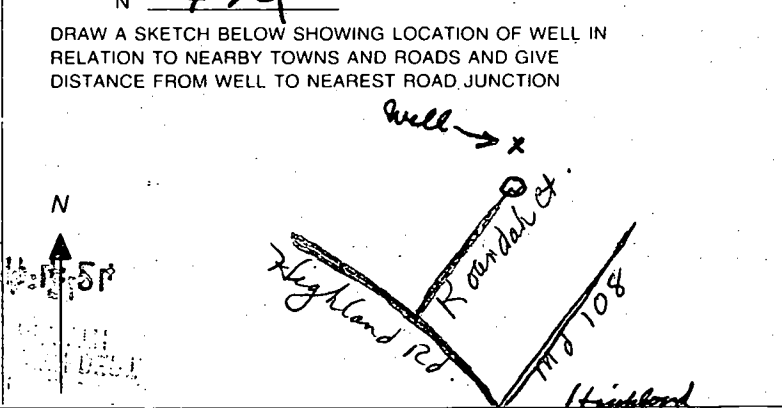
THIS WELL WILL NOT REPLACE AN EXISTING WELL

THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED

39 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 DEEPEM AN EXISTING WELL

PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 _____ 52



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

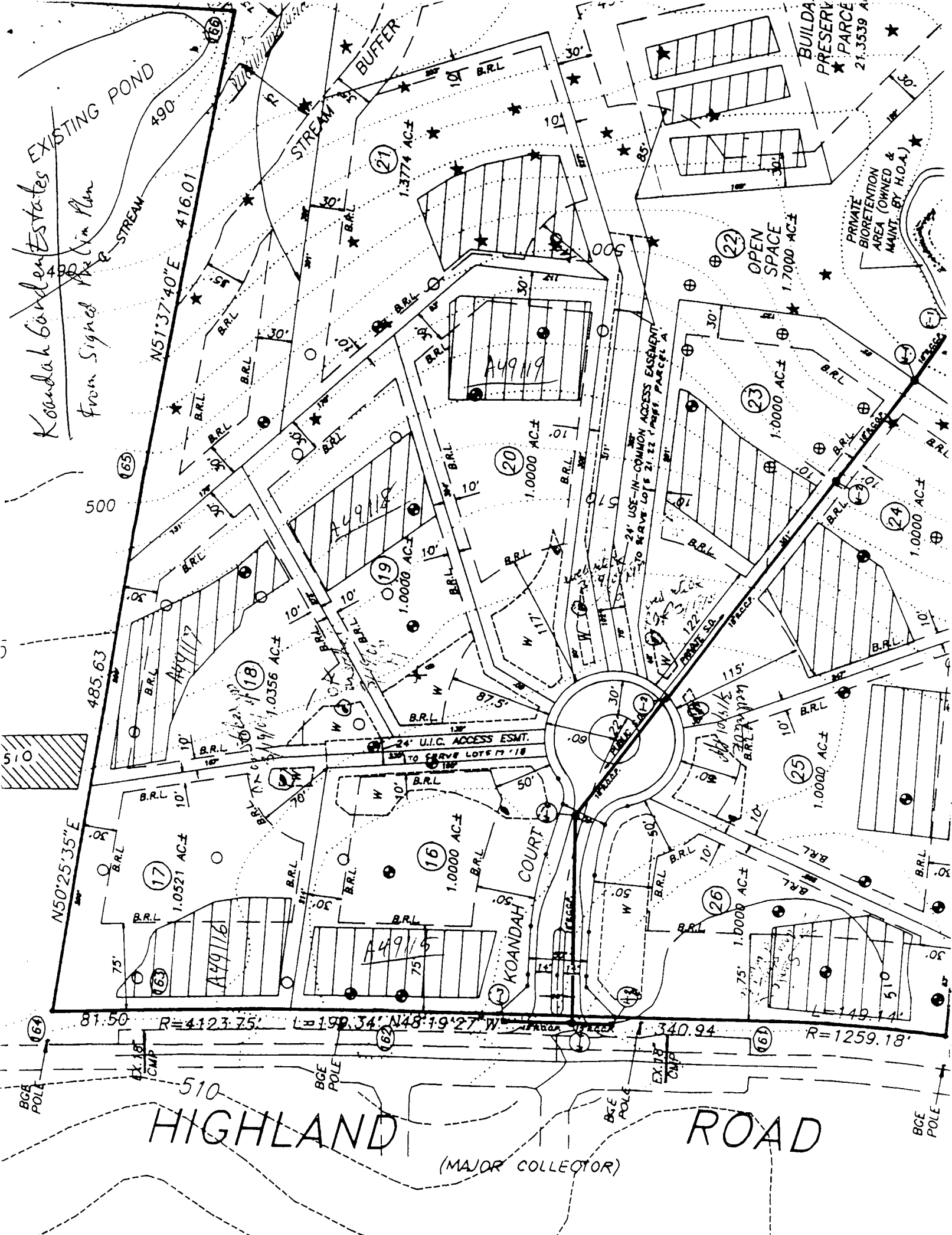
APPROX. PERMIT NUMBER HO-001 G-006(CO1)

PERMIT No. HO-94-3055

SPECIAL CONDITIONS

NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

Koandah Gardens Estates
from Signed Prelim Plan



HIGHLAND ROAD
 (MAJOR COLLECTOR)

TEST DATA

NAME	Kokandah Gardens Lots 20, 21	FILE NO	45/1371
LOCATION	N. Side Rt. 216 1/4 mile West of 108	COUNTY	Howard
		DATE	7/7/99
RECORDED BY	B. Baker / R. Pinkley	GRID	

HOLE NO.	TEST NO.	DEPTH	CLOCK TIME	ELAPSED TIME Min/Sec	MEASUREMENT	REMARKS (Method, Moisture, Biopores)
21A		3 1/2'	4:45:45			
			4:47:30	1:45	9" - 8"	Silty Clay Loam - Heavy Loam 1" in
			4:49:55	2:25	8" - 7"	
			4:53:20	3:25	7" - 6"	
			4:58:00	4:40	6" - 5"	
21D		40"	4:55:15		3"	
			5:00:30	4:45	8" - 7"	
			5:05:20	4:50	7" - 6"	
			5:10:20	5:00	7" - 6"	
21C		38"	5:05:30			Heavy Mica Loam
			5:15:30	9:00:00	8" - 7"	
			5:30:00	14:00:30	7" - 6"	
			5:46:20	16:00:20	7" - 6"	
21B		40"		1:20	8" - 7"	Silty Clay Loam - Heavy Mica Loam
				1:50	7" - 6"	
				2:50	6" - 5"	

A511371

Koandah Gardens

COUNTY #

SOIL PROFILE

0'

Empty rectangular box for soil profile notes.

Empty rectangular box for soil profile notes.

Empty rectangular box for soil profile notes.

SOIL PROFILE

0'

Empty rectangular box for soil profile notes.

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
7-8-99	22A	40"	12:05	12:06:30	12:06:30	12:09	2 1/2
7-8-99	22B	39"	12:12	12:15	12:15	12:22	7
7-8-99	22C	38"	12:23	12:28	12:28	12:35	7
7-8-99	22D	42"	12:32	12:41	12:41	1:09	28
7-8-99	23A _a	38"	1:43	2:11	2:11	2:48	(37) Fail
7-8-99	23A _b	44"	1:19	1:38	1:38	2:33	(55) Fail
7-8-99	23B	39"	1:00	1:28	1:28	2:13	(45) Fail
7-8-99	23C	40"	1:17	1:23	1:23	1:34	11
7-8-99	23D	38"	1:29	2:06	2:06	3:00	(54) Fail

REMARKS _____

TYPE OF SOIL _____

TESTED BY _____

ALSO PRESENT _____

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____

TRENCH WIDTH _____

INLET DEPTH _____

MAXIMUM BOTTOM DEPTH _____

SQ. FT./BEDROOM _____

TEST DATA

NAME <u>Korndeh Garden</u>	FILE NO _____
LOCATION _____	COUNTY _____
_____	DATE <u>7/9/99</u>
_____	GRID _____
RECORDED BY <u>[Signature]</u>	E N

HOLE NO.	TEST NO.	DEPTH	CLOCK TIME	ELAPSED TIME	MEASUREMENT	REMARKS (Method, Moisture, Biopores)
	2AC Inl					<p>Infl set 2 days ago - soils dry & cracks, unit not tight & sealed (Leaked on 1st pass @ 12:20)</p> <p>Owner decide Not to proceed with 6 driven infiltrometers since we could not guarantee the soundness of resealing rings once soils were moistened.</p> <p>No further testing done today</p>

TEST DATA

NAME Koundak Gardens Community FILE NO. A-5113 *Dale Gray, Dave Durrence, Mike Robbins, Jim Skarborn*

LOCATION _____ COUNTY _____

DATE 7/7/99

RECORDED BY P. Parker, B. Baker GRID _____ E _____ N _____

HOLE NO.	TEST NO.	DEPTH	CLOCK TIME	ELAPSED TIME	MEASUREMENT	REMARKS (Method, Moisture, Biopores)
	20D	3'	3:44:00 3:45:50 3:47:15 3:49:10	2 mpi	8" 7" 6" 5"	<u>observed hole</u> 0-16" tan-brown Lm 16"-5' ft Str Ben mica lam (dry) 6-7' ft Mix dark gray SL (20% Str Spherulite Rock) <u>V. 7 1/2'</u>
	20C	3 1/2'	3:52:30 3:53:50 3:55:20 3:57:55	2 1/2 mpi	8" 7" 6" 5"	<u>V. 3 1/2'</u> same as 20D to 3 1/2' some stones (15%) (quartz-mica schist) (dry)
	20A	3 1/2'	4:02 4:03 4:04:30 4:06:45	2 1/4 mpi	9" 8" 7" 6"	A, Bt 0-18-20" 1 1/2-3 1/2' Red Ben - Ben mica lam (dry) <u>V. 3 1/2'</u>
	20B	3 1/2'	4:09:00 4:13:30		9" 8"	<u>V. 3 1/2'</u> 0-1 1/2' Red Ben LL 1 1/2-2 1/2' -3 1/2'

Holes

210

6"-7 1/2' Red Ben CL (Pia) (2msd)

2 1/2'-4' Red Ben LL (1F-m.s.d.)

38'-45' Mix Orange Yel Si-FSL

4-7 1/2' Mid-Red Ben mica lam

A511371

COUNTY #

Koan dah Gardens

SOIL PROFILE

0'

Empty vertical box for soil profile notes on the left side.

Empty vertical box for soil profile notes in the middle left.

Empty vertical box for soil profile notes at the bottom left.

SOIL PROFILE

0'

Empty vertical box for soil profile notes on the right side.

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

18' < apart

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
7-8-99	2ACa	34"	10:12	10:48	10:48	12:00	72+ Fail
7-8-99	2ACb	43"	11:30	11:36	11:36	11:47	11
7-8-99	2AD	39"	10:17	10:23	10:23	10:32	9
7-8-99	2AE	36"	10:31	10:34	10:34	10:38	4
7-8-99	2AB	40"	10:47	10:52	10:52	11:11	19
7-8-99	2AA	40"	10:53	10:54	10:54	10:57	3

REMARKS _____

TYPE OF SOIL _____

TESTED BY _____ ALSO PRESENT _____

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____ TRENCH WIDTH _____

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

TEST DATA

NAME Woodland Gardens Community FILE NO. 5712 *Dale Gray, Dave Duane, Mike Robins, Jim Scarborough*

LOCATION _____ COUNTY _____

DATE 7/17/99

RECORDED BY P. Palley, B. Baker GRID _____ E _____ N _____

HOLE NO.	TEST NO.	DEPTH	CLOCK TIME	ELAPSED TIME	MEASUREMENT	REMARKS (Method, Moisture, Biopores)
	20D	3'	3:49:00 3:45:50 3:47:15 3:49:10	2 mpi	8" 7" 6" 5"	<u>observed hole</u> 0-16" Red Brn Lm 16"-6" ft Str Ben Mica lam (dry) 6-7" ft Mix dark gray SL (20% Str Saprotl + Red) <u>V. 7 1/2'</u>
	20C	3 1/2'	3:52:30 3:53:50 3:55:20 3:57:55	2 1/2 mpi	8" 7" 6" 5"	<u>V. 3 1/2'</u> same as 20D to 3 1/2' some stones (15%) (granite - mica schist)
	20A	3 1/2'	4:02 4:03 4:04:30 4:06:45	2 1/4 mpi	9" 8" 7" 6"	A, Rt 0-18-20" 1 1/2-2 1/2" Red Brn - Ben Mica lam (dry) <u>V. 3 1/2'</u>
	20B	3 1/2'	4:09:00 4:13:30		9" 8"	<u>V. 3 1/2'</u> 0-1 1/2' Red Brn Lm 1 1/2-2' -3 1/2'

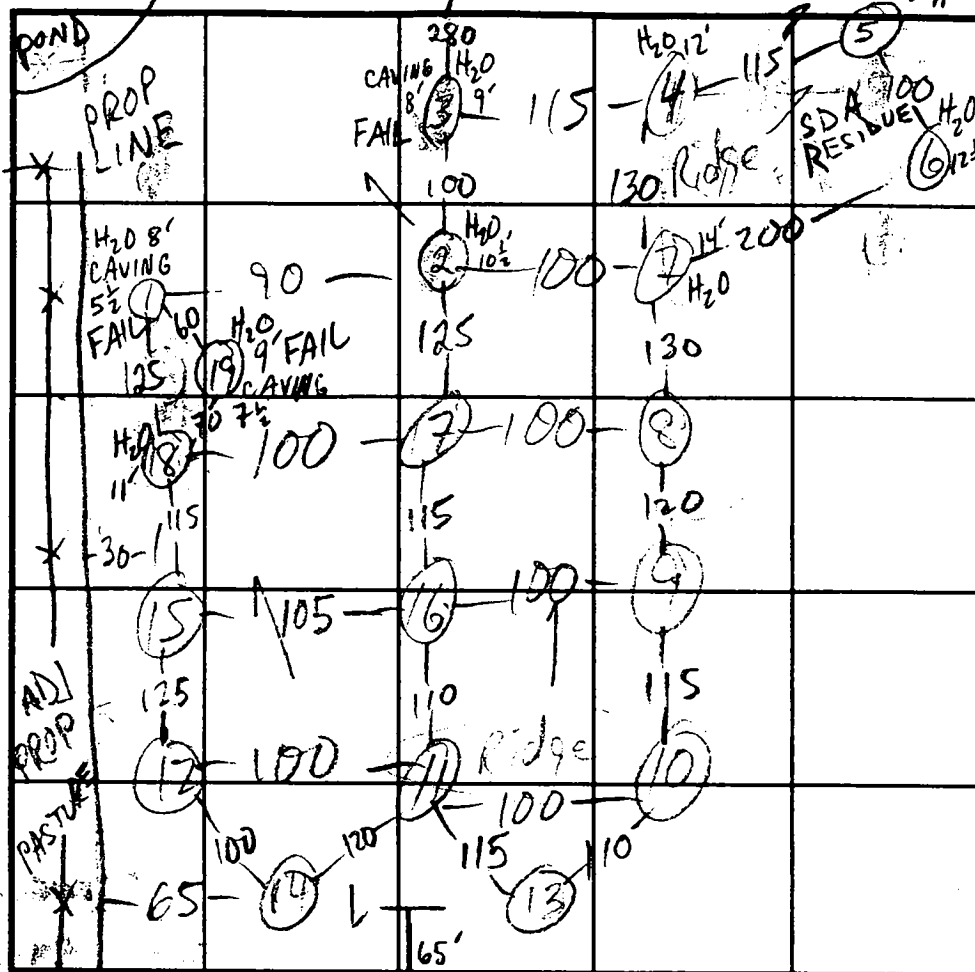
Holes
21C/
6" 2 1/2" Red Brn CL (mic) (2ms slt)
2 1/2" 4" Red Brn L (1F-ms slt)
3 1/2" 9 1/2" Mix dark gray Yel SL-FSL
4-7 1/2" Mid-Mica Brn Mica lam

COUNTY #

SOIL PROFILE

0 0 2 3
 brn org
 sa cl
 1m
 3
 tan brn
 mica
 su 1m
 10%
 frags
 WATER @ VARIOUS DEPTHS
 1/2 - 1 1/2
 (4) (5)

2
 brn
 sa cl
 1m
 tan
 beige
 1/4 gray mica
 sand &
 sa 1m
 10-15%
 frags
 13 1/2



SOIL PROFILE

0'
 SOIL PROFILE

HIGHLANDS RD INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE. Shoulder

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
4/28/93	2 S	3 1/2"	10:33:00	10:35:00	10:35	10:39	4
	2 M	5'9"	10:32:30	10:52	10:52	11:09	17 EST
	2 V	11 1/2"	H ₂ O @	10 1/2"			
	1 S	3	10:41	10:52	10:52	11:22	30 EST
	1 V	8 1/2"	H ₂ O @	8' 2" CAVING	@ 5 1/2"		FAIL
	3 S	2'9"	10:53:30	10:56	10:56	10:59	3
	3 V	10'	H ₂ O @	9', CAVING	@ 8'		FAIL
	4 S	3	11:06	11:09	11:09	11:12	3 EST
	4 V	13 1/2"	H ₂ O @	12'			
	5 S	2 1/2"	11:19	11:21	11:21	11:26	5
	5 V	12 1/2"	H ₂ O @	11'			

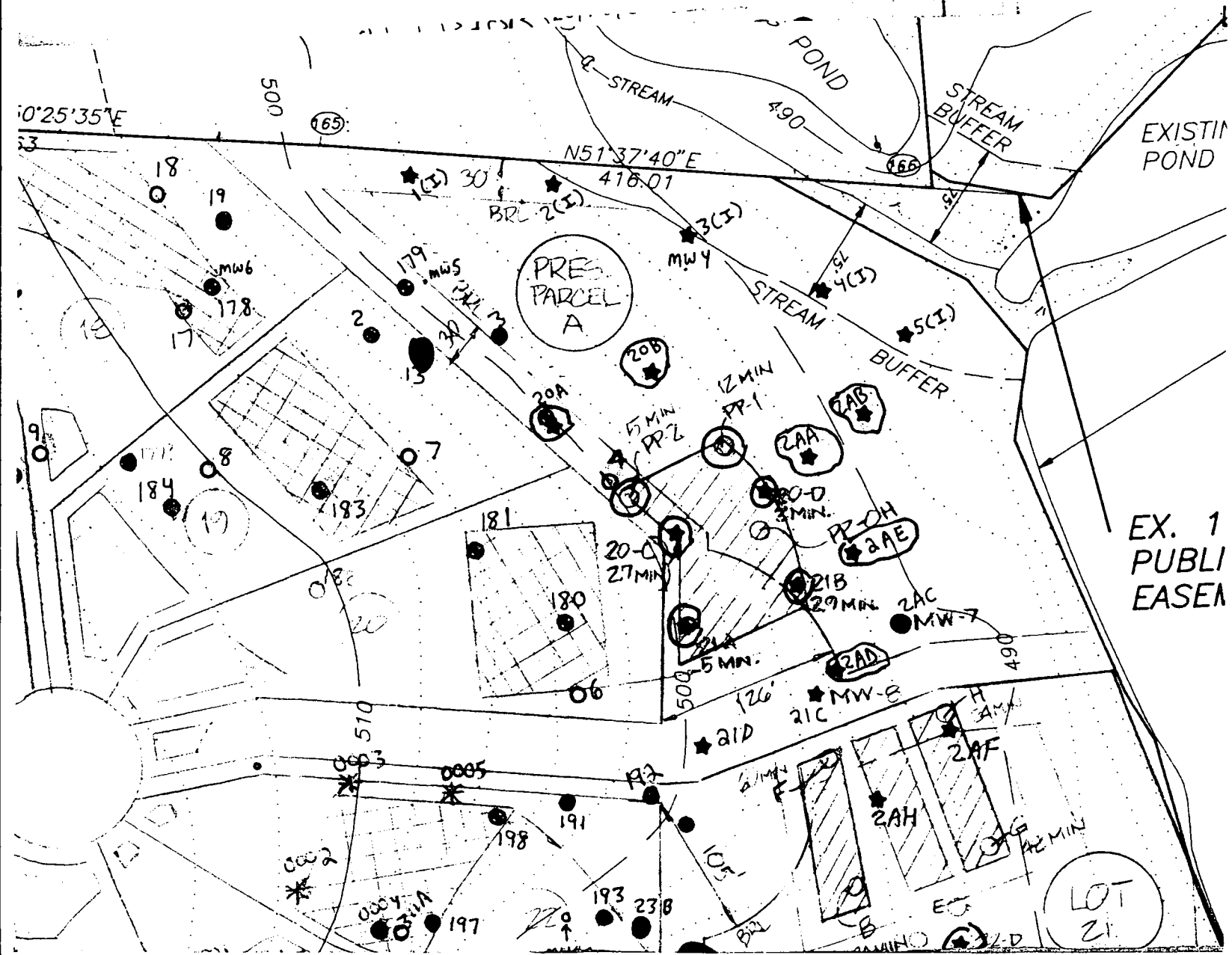
REMARKS HOLES (1)-(12), (15)-(18) PER PLAN, OTHERS NOT TOT. 24

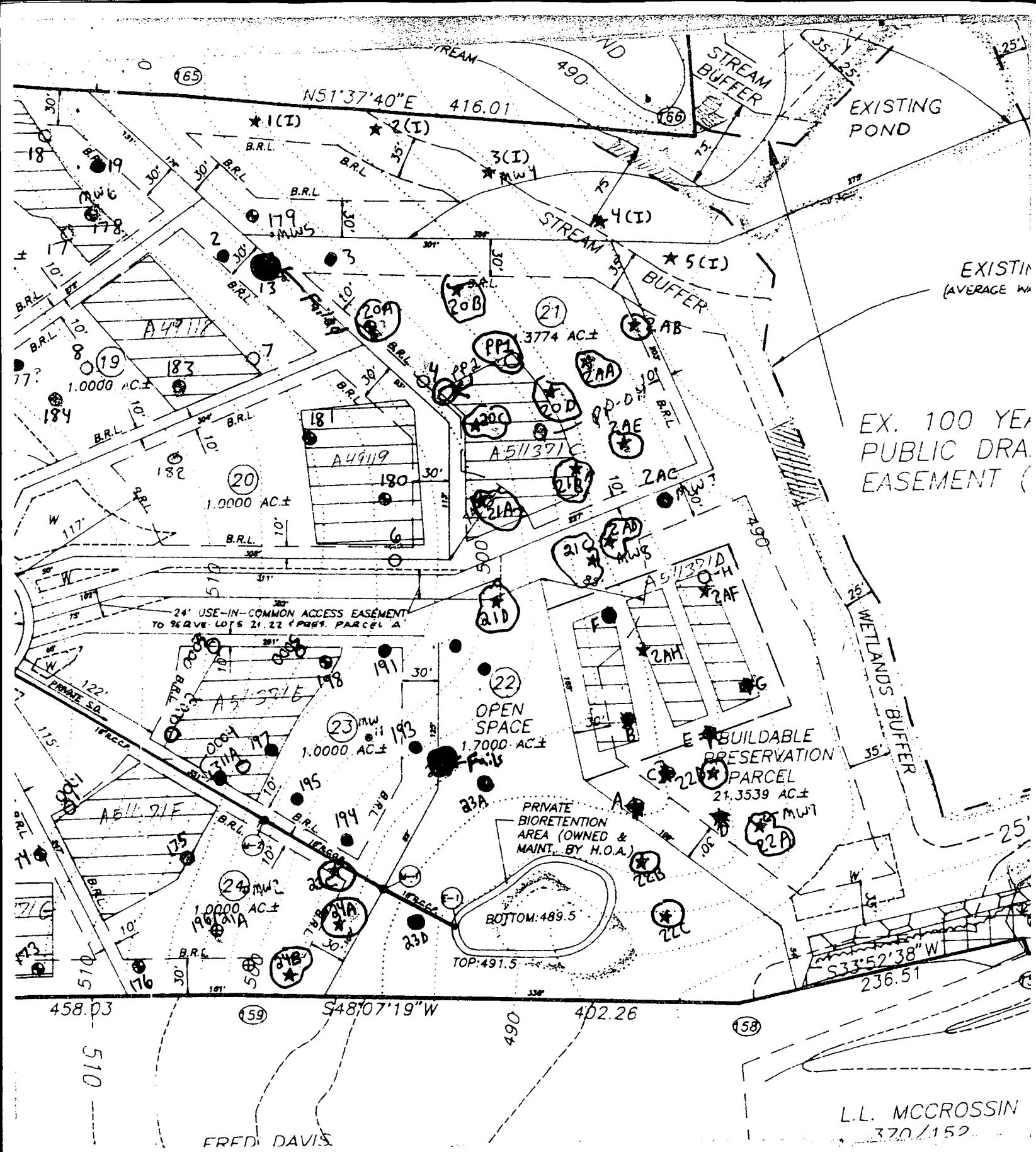
TYPE OF SOIL _____
 TESTED BY M. Rifkin ALSO PRESENT Sanborn, R. Deem, Hoeman
 TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME 9 TRENCH WIDTH 2
 INLET DEPTH 3 MAXIMUM BOTTOM DEPTH 7 SQ. FT./BEDROOM 210

n=3

Signed PC

See original plat for deciphering test results

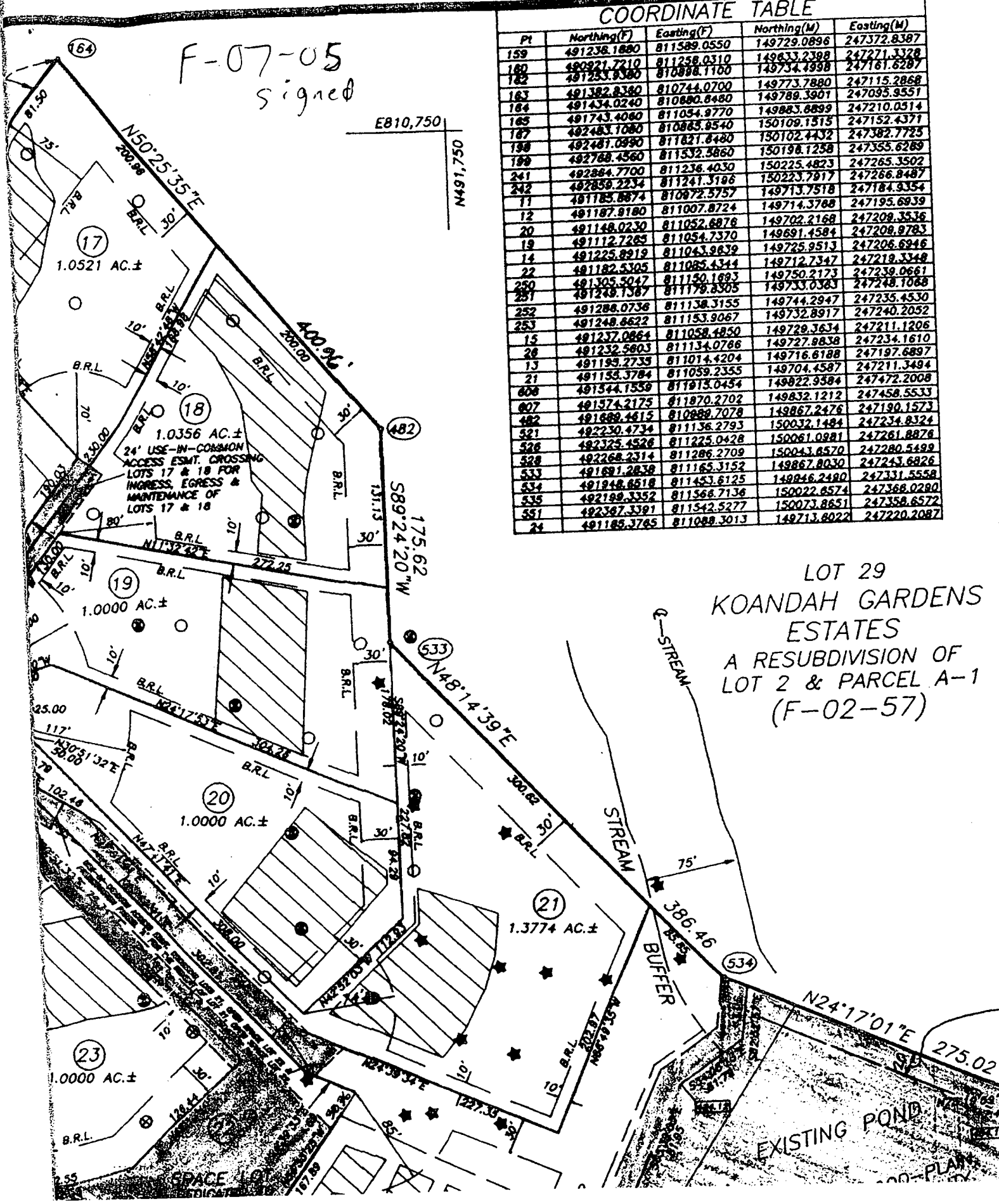




Signed PReIm
 See original plat for deciphering
 test results

L.L. MCCROSSIN
 370/152

All perc test holes excavated not shown



F-07-05
signed

COORDINATE TABLE

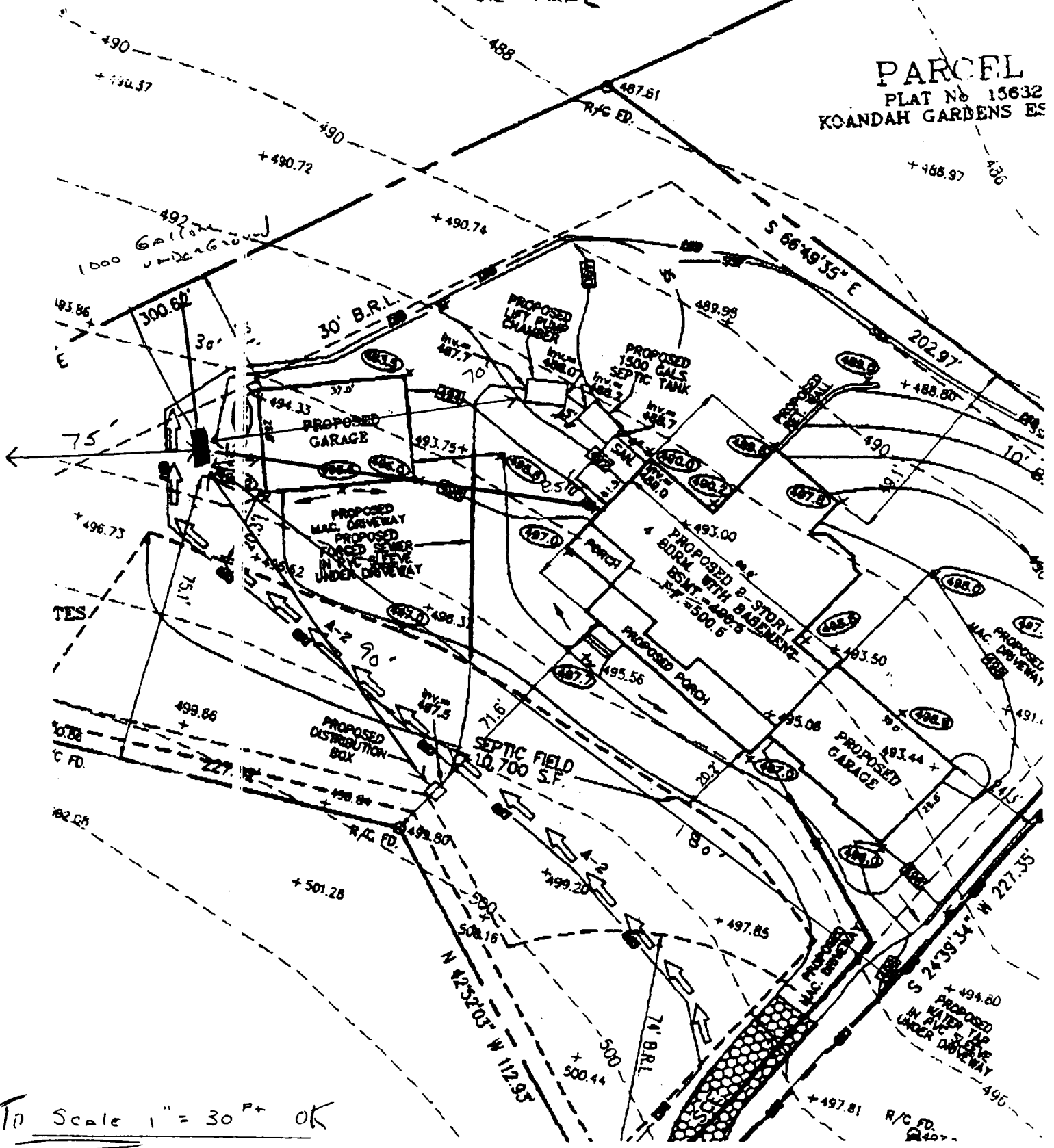
Pt	Northing(F)	Easting(F)	Northing(M)	Easting(M)
159	491238.1880	811589.0550	149729.0898	247372.8397
160	490921.7210	811258.0310	149633.2398	247271.3328
162	491233.9380	810998.1160	149734.4998	247161.6287
163	491382.8380	810744.0700	149773.7880	247115.2868
164	491434.0240	810680.8480	149789.3901	247095.9551
165	491743.4080	811054.9770	149883.6899	247210.0314
167	492483.7080	810885.9540	150109.1515	247152.4371
170	492487.0990	811821.8480	150102.4432	247382.7725
178	492788.4560	811532.5860	150198.1258	247355.6289
241	492884.7700	811236.4030	150225.4823	247265.3502
242	492858.2234	811241.3186	150223.7917	247266.8487
11	491185.8874	810872.5757	149713.7518	247184.9354
12	491187.9180	811007.8724	149714.3788	247195.6939
20	491148.0230	811052.6878	149702.2168	247209.3536
19	491112.7265	811054.7370	149691.4584	247208.9783
14	491225.8919	811043.9839	149725.9513	247206.6946
22	491182.5305	811085.4344	149712.7347	247219.3348
250	491305.5047	811150.1893	149750.2173	247239.0661
251	491248.1587	811179.8305	149733.0383	247248.1068
252	491288.0736	811138.3155	149744.2947	247235.4530
253	491248.6622	811153.9067	149732.8917	247240.2052
15	491237.0864	811058.4850	149729.3634	247211.1206
26	491232.5803	811134.0766	149727.8838	247234.1610
13	491199.2733	811014.4204	149716.6188	247197.6897
21	491155.3784	811059.2355	149704.4587	247211.3494
606	491344.1559	811913.0454	149822.9584	247472.2008
607	491574.2175	811970.2702	149832.1212	247458.5533
482	491889.4615	810889.7078	149867.2476	247190.1573
521	492230.4734	811136.2793	150032.1484	247234.8324
526	492325.4528	811225.0428	150061.0981	247261.8876
528	492268.2314	811286.2709	150043.6570	247280.5499
533	491891.2838	811165.3152	149867.8030	247243.6826
534	491948.6518	811453.6125	149846.2480	247331.5558
535	492199.3352	811568.7136	150022.6574	247368.0280
551	492387.3391	811542.5277	150073.8651	247358.6572
24	491188.3765	811089.3013	149713.8022	247220.2087

LOT 29
KOANDAH GARDENS
ESTATES
A RESUBDIVISION OF
LOT 2 & PARCEL A-1
(F-02-57)

EXISTING POND

To: CRAIG KOSSEN
From: Tom AMERICAS
Please mark spot
for tank

PARCEL
PLAT No 15632
KOANDAH GARDENS ES



To Scale 1" = 30' +/- OK

2/9/04 Main gain 20' sep. distance to SDA.

B00146059 OK