

84
COUNTY #

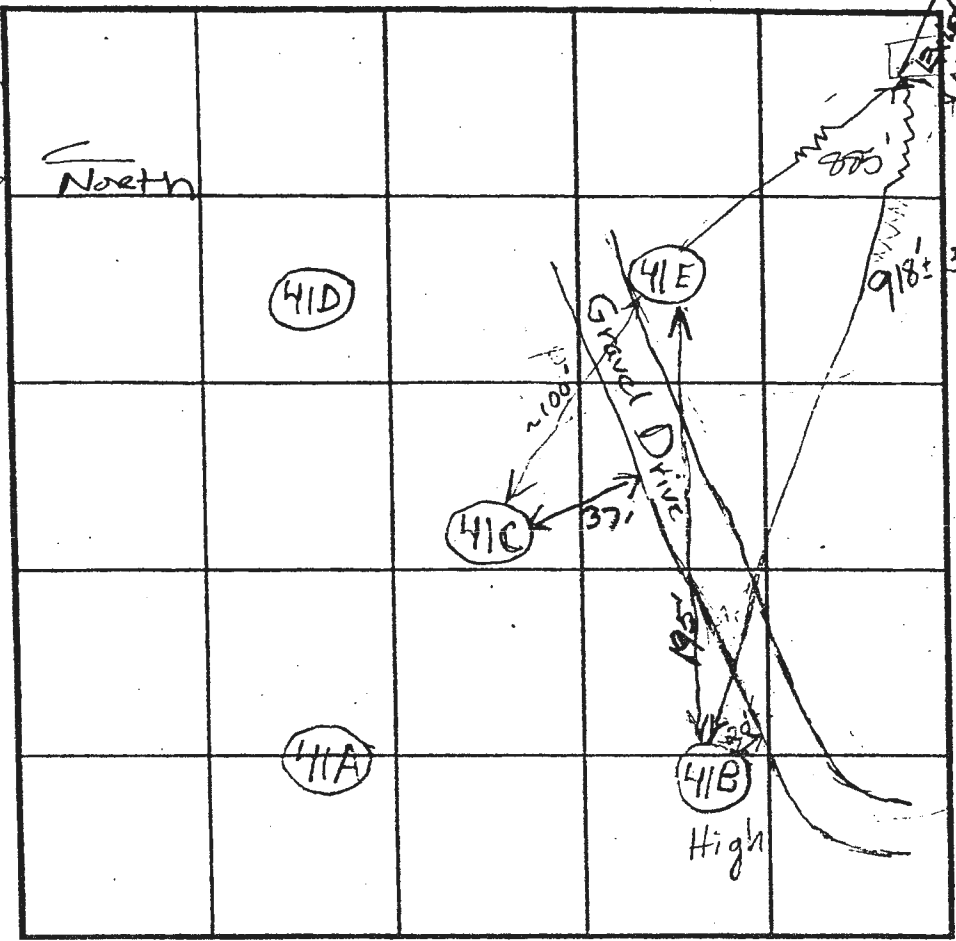
SOIL PROFILE
(41E) Wet Season
w/c rd
brn Rx < 5%
CLm w/
SCLLm
pockets 4 1/2'
DRY yell brn
Sand-Loamy
Sand
Rx ≈ 10-15%
moist
mottles
of sand
black, white,
y/brn, org brn
DK brn
Bottom 10'
14'

(41C)
org brn
CLLm 3'
brn
org brn
Lm

Rx ≤ 15%

8 1/2'
Rx > 50%
@ sand
10.5'
mottling
Hard bottom 12'

(41B)
Topsoil 2'
O + Br
Sa Loam
20%
Rx
(total)
Sand
Rx ≤ 15%
Bottom 15'



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
5/10/02	41E	4.5'	Slow				
	4' Buffer zone not possible	6' 8" / 14"	2:17:46	2:22:19	2:22:19	2:25:50	3+ min
		5'	2:54	3:00	3:00	3:13:40	13 min
		3 1/2'	?	2:30:21	2:30:21	2:32:05	1 1/2 min
	41C	6' / 2+8	2:29:38	2:30:54	2:30:54	2:32:23	1 1/2 min
	41B	4' 9"	3:03	3:06	3:06	3:10:14	4 min
		6'	3:03	3:06:10	3:06:10	3:10:14	4 min

REMARKS Holes per plan Wet Season Mottles are present

TYPE OF SOIL _____

TESTED BY K61B3 ALSO PRESENT Hatfields

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____ TRENCH WIDTH _____

(F)
WS
(F)
OK

516084
COUNTY #

SOIL PROFILE

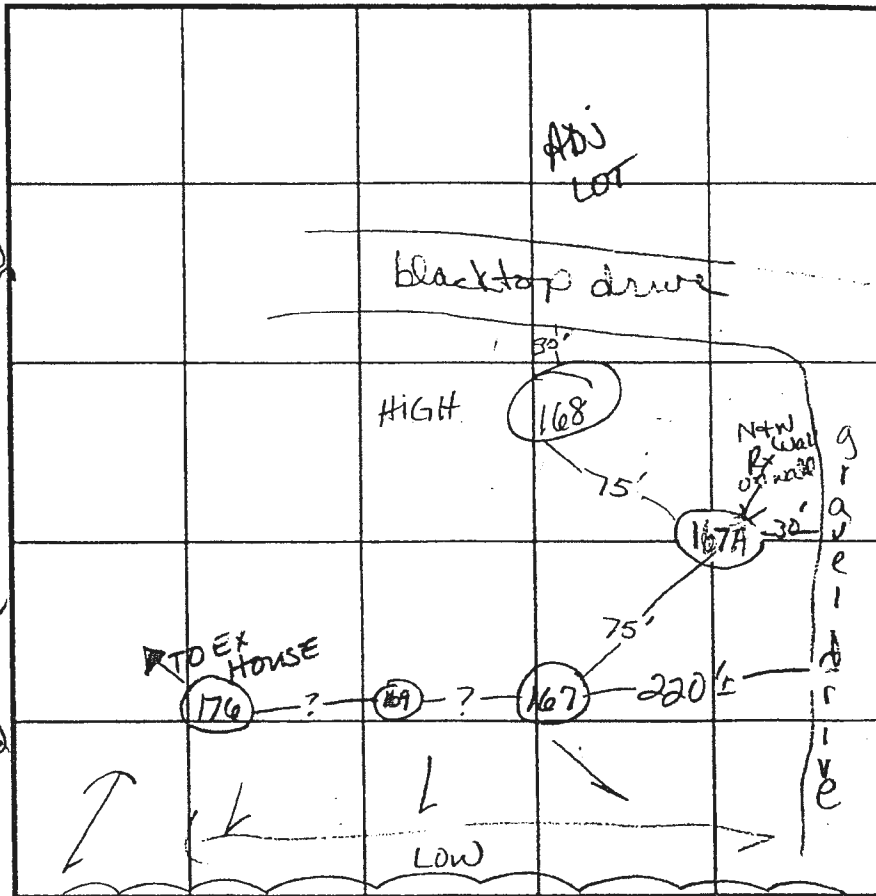
(176)
Strong Red
Surface Rock
Stony ~15%
hvy Gravelly
Sandy loam
3'
Brown
Trace
Rock
Med
framed
Sand
14'
Bottom

(169)

hvy Strong Rd
brn
SCUM
Rx < 10%
3'
N+NW
Rx begins
Total 15%
Loamy
sand
L med grain
6 1/2'
50% saprophyte
grayish +
str. brn mottled
14'
Bottom

(168)

DK. Brn
hvy
Loam
5'
Fine
loamy
sand
9'
V. Friable
saprophyte
< 20%
14'
Bottom



SOIL PROFILE

(167) / (167A)
DK brn
hvy loam
blocky
Structure
17'
DK brn
SAND - MED
grained
granular
Structure
7' - for 167A
50% Rx
on NW
wall
platy
Structure
14'
Bottom

167A
will perc
@ 2'

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
11-6-02	(176)	6 1/2' / 14'	2:20	2:22	2:22	2:25 ³⁰	3+ ok
	(169)	4 1/2' / 14'	2:31	2:36	2:36	2:42	6 min ok
	(168)	3 1/2' / 14'	2:43	2:46	2:46	2:50	4 min ok
	(167)	4' / 14'	3:02	3:04	3:04	3:08	4 min ok
	(167A)	4' / 14'	2:50	2:54	2:56	3:02	6 min M

REMARKS DUG PER PLAN in grade
TYPE OF SOIL _____
TESTED BY Kacei ALSO PRESENT Sperry + Natfield
TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____ TRENCH WIDTH _____
INLET DEPTH _____ MAXIMUM BOTTOM DEPTH _____ SQ FT/BEDROOM _____

COUNTY #

SOIL PROFILE

(298)

Red Br Heavy Loam

3.5'-4'

Red Br Si Loam and Sa Loams

6'-6.5'

Med Red Br Sa Loam ~20% Rock and Saprolite

15'

(420)

Red Br Loam

2'

Red Br Sa Loam

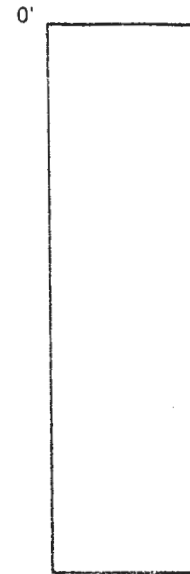
4.5'

Or Br Sa Loam

~20% Rock and Saprolite

15'

SOIL PROFILE



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME	
			START	STOP	START	STOP		
3/25/03	298	5.5'/15'	2:26:15	2:31:15	2:31:15	2:41:45	10 1/2	O.K.
	420	5'/15'	2:28	2:30	2:30	2:33	3	O.K.
3/26/03	167A	4.5'	2:07	2:13	2:13	2:20	7	O.K.
		8'	3:16	3:18	3:18	3:22	4	

REMARKS _____

TYPE OF SOIL _____

TESTED BY _____ ALSO PRESENT _____

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____ TRENCH WIDTH _____

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

TD

516084

COUNTY #

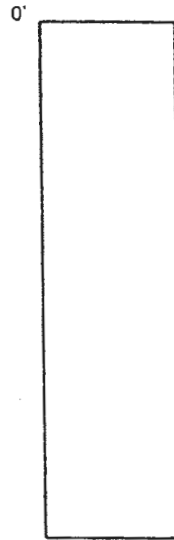
SOIL PROFILE

165

0'
 ?
 3 1/2'
 extremely fine sand
 almost silt clay
 No mottles
 Massive structure
 loose
 Bottom 14



SOIL PROFILE



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
11-6-02	166	Solid Rock	Refusal	@ 5'	(F)		
	165	3'8"	3:08	3:14	3:14	3:22	8
		14'					

OK

REMARKS Holes Staked Per Plan

TYPE OF SOIL

TESTED BY Kacie Noonan ALSO PRESENT Hatfields

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME TRENCH WIDTH

INLET DEPTH MAXIMUM BOTTOM DEPTH SQ FT/BEDROOM

84

NTY #

SOIL PROFILE 46B

DK brn
Str. ora brn
wk rd brn
CL-CLM
Rx ≤ 50%

4'

Rx pebbles
5-10"

Loamy Sand
y brn beige
dk brn tan
Bottom

15'

46C

Dark brown
Denise
gravelly
SCL
LM
35-40%
Rx

4 1/2 - 7'

gravelly
SCLM
> 50%
Rx
Bottom

15'

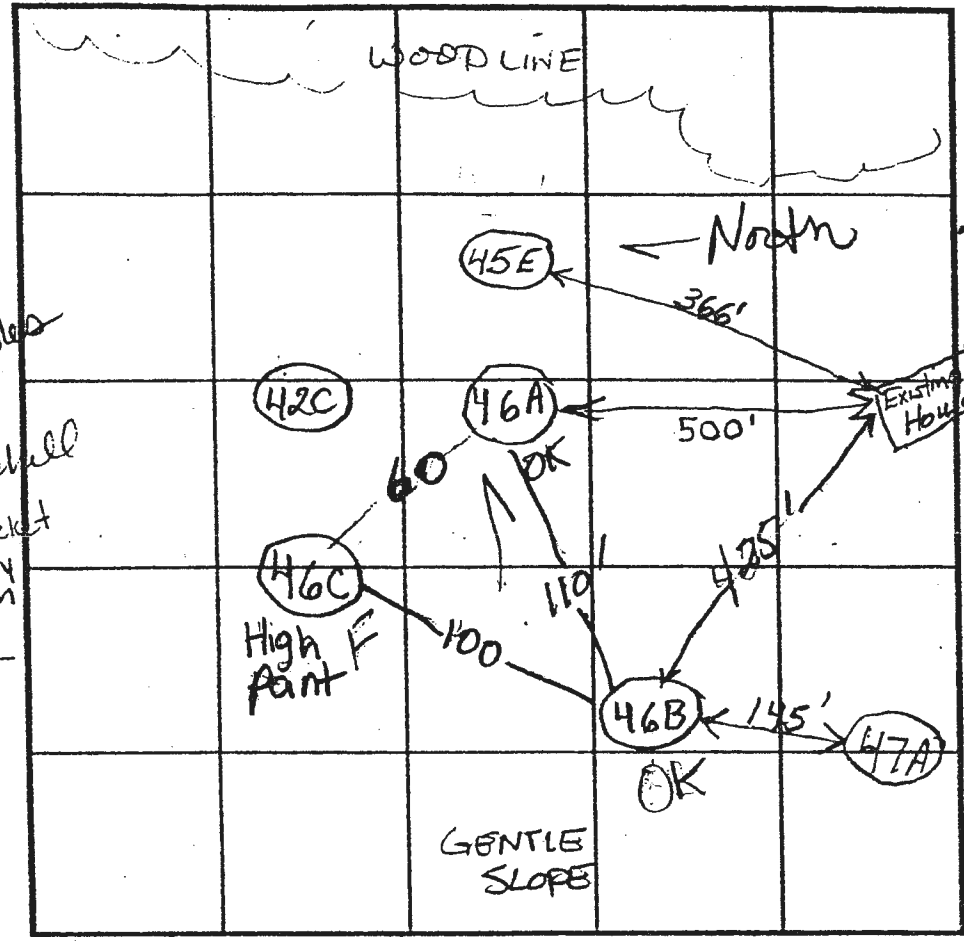
46A

orange
CL-CLM
tan
buges sand
w/pockets of
SLM

1 1/2'

3 ±

orange
LM sand
to
sand
Rx ≤ 100%



SOIL PROFILE 45E

Red Br
Heavy Loam
Or Red
Br Si
Loam
~5% Rock

2.5'

5'

Beige
Sa Loam
~5%
Rock

15'

42C

Sa CL Loam
> 50%
Rock
Hard
Bottom

6'

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

Homewood Road

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME	
			START	STOP	START	STOP		
5-9-02	46B	4 5/2	11:31:10	11:32:30	11:32:48	11:32:49	12 min	OK
	46C	6' / 15'	11:42:30	11:43:15	11:43:15	11:44:35	1 1/2	(E)
	46A	3 1/2 5'	11:58:16	11:59:17	11:59:17	12:00:40	1 1/2	OK
	12x12"	5'	11:58:15	12:00:05	12:00:05	12:01:27	1 1/2 min	
	45E	6' / 15' V	12:21	12:25:30	12:25:30	12:33:15	~8	OK
		56"	12:25:30	12:30	12:30	12:43	13	
5/10/02	42C	12' V	Hard Bottom		→			(E)

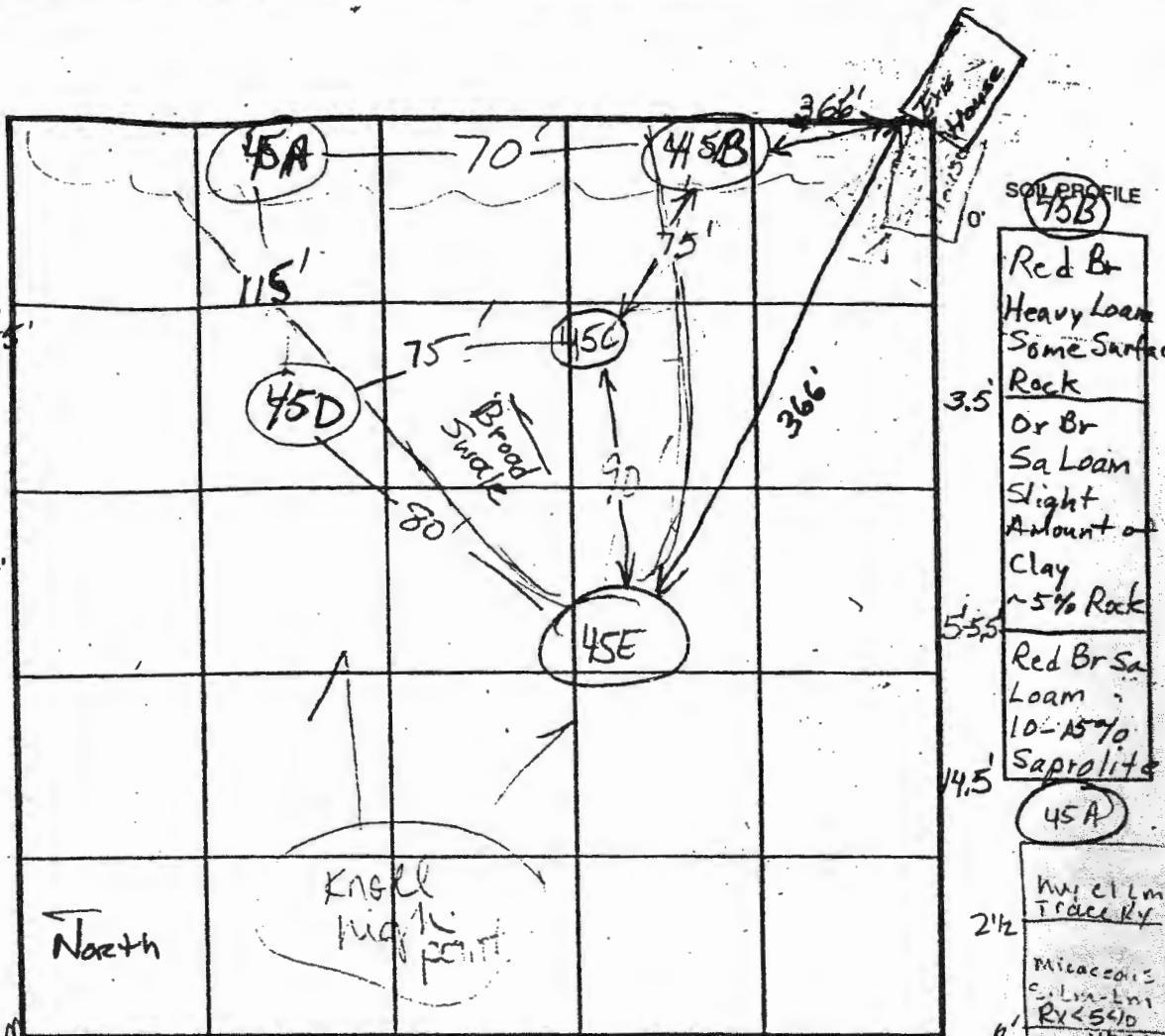
REMARKS Holes per plan

TYPE OF SOIL

TESTED BY KG / BB ALSO PRESENT HATFIELD

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME TRENCH WIDTH

INLET DEPTH MAXIMUM BOTTOM DEPTH



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

Rx ≤ 10%

SOIL PROFILE 45C
 Red Br Cl Loam
 4.5'-5'
 Light Br Sa Loam slight Amount of Clay 10-15% Saprolite
 6.5'
 Tan Loomy Sand 10-15% Saprolite

SOIL PROFILE 45B
 Red Br Heavy Loam Some Surface Rock
 3.5'
 Or Br Sa Loam slight Amount of Clay ~5% Rock
 5.55'
 Red Br Sa Loam 10-15% Saprolite
 14.5'

45D
 Strong brn ybrn
 hvly CLLM
 Rx ≤ 5%

45A
 hvly CLLM Trace Ry
 2 1/2'
 Micaceous c. Lm-Lni Rx ≤ 5%
 6'
 SLM ybrn org brn
 Bottom

45E
 DK org brn
 SLM micaceous
 Rx ≤ 50%
 Bottom

45E
 Red Br Heavy Loam
 2.5'
 Or Re Br Si Loam ~5% Rock
 5'
 Beige Sa Loam ~5% Rock

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME	
			START	STOP	START	STOP		
5-9-02	45D	6 1/2' / 14 1/2'	1:51:49	1:53:32	1:53:32	1:56:04	2 1/2	OK
		5' 4"	1:57:47	1:59:35	1:59:35	2:02:05	2 1/2 min	
	45E	6' / 14'	12:20:52	12:25:27	12:25:27	12:33:16	~8	OK
		56"	12:25:30	12:30	12:30	12:43	13	
	45C	4' / 15' V	1:44	Pulled in	L: 1/2 Movement in 10 minutes			slow OK
		5' 9"	1:43:30	1:51	1:51	2:05	14 min	
	45A	6' M / 14' V	2:25:29	2:29:43		2:35	6 min	
		4 1/2' S	2:27:48	2:31		2:35:21	4 min	OK
	45B	4' 4" / 14.5'	2:12:15	2:30	2:30	2:59	2 min	OK
		6'	3:37	3:38:35	3:38:35	3:42:10	~2	

REMARKS Holes per plan

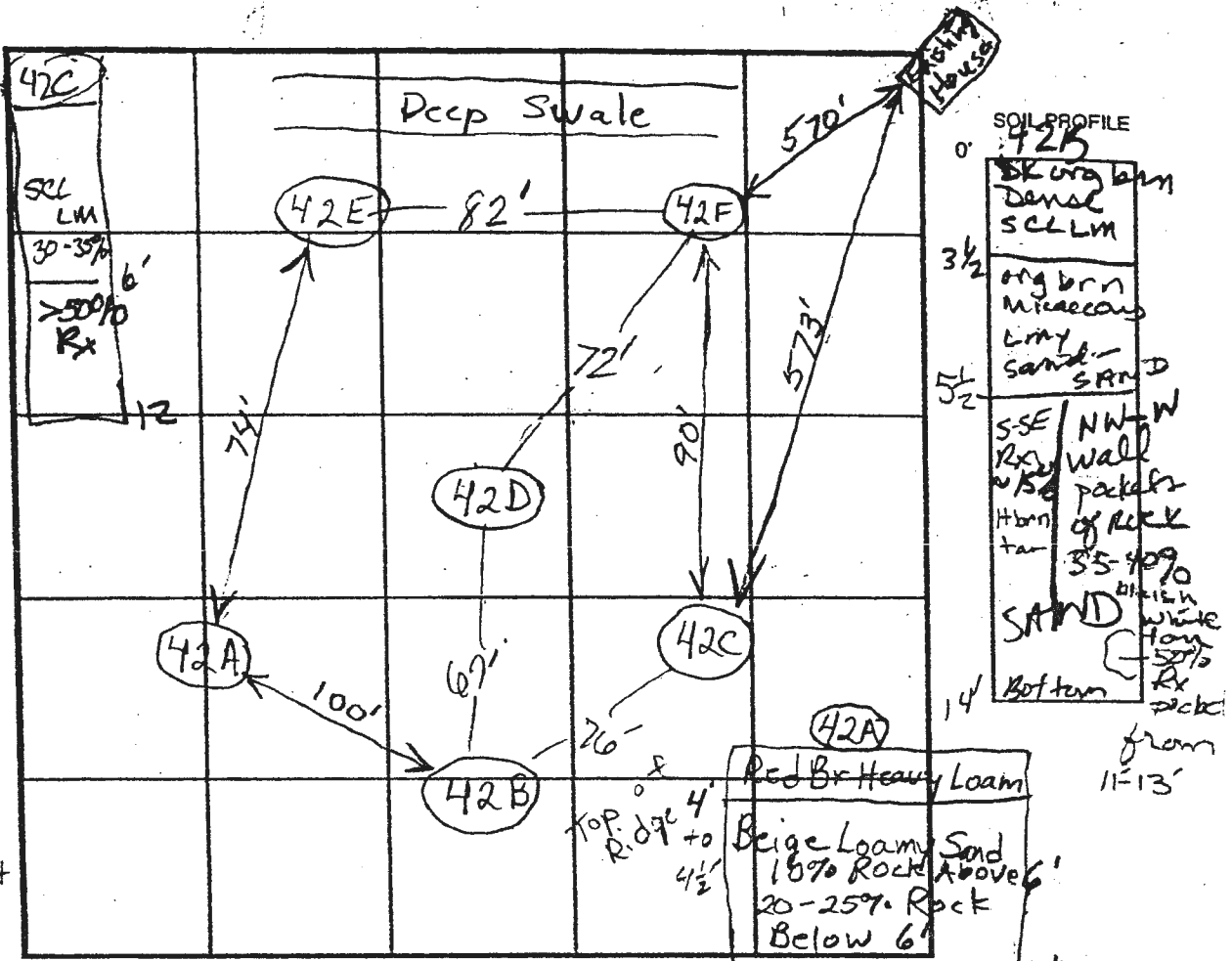
TYPE OF SOIL _____

TESTED BY BB/KG

ALSO PRESENT HATFIELDS

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____

TRENCH WIDTH _____



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

SOIL PROFILE
42F
 Strong Org brn
 Rx $\leq 5\%$
 hvly cl-
 cLLm
 4'
 Strong
 y brn
 Micaceous
 Lm
 Rx $< 10\%$
 11'
 White
 coarse
 sand
 w/ separate
 frags
 15%
 14'

SOIL PROFILE
42B
 0'
 dk org brn
 Dense
 sLLm
 3 1/2'
 org brn
 Micaceous
 Lm
 Sand
 SAND
 5 1/2'
 S-S E / N-W
 Rx wall
 w/ 1/2
 pkts
 of rock
 Horn
 tar
 35-40%
 SAND
 14'
 Bottom

42E
 gravelly
 dense
 sil Lm
 w/ intermittent
 pure clay
 layers
 Rx
 10-15%

42A
 Red Br Heavy Loam
 Beige Loamy Sand
 10% Rock Above 6'
 20-25% Rock
 Below 6'

gravelly
 dense
 sil Lm
 w/ intermittent
 pure clay
 layers
 Rx
 10-15%

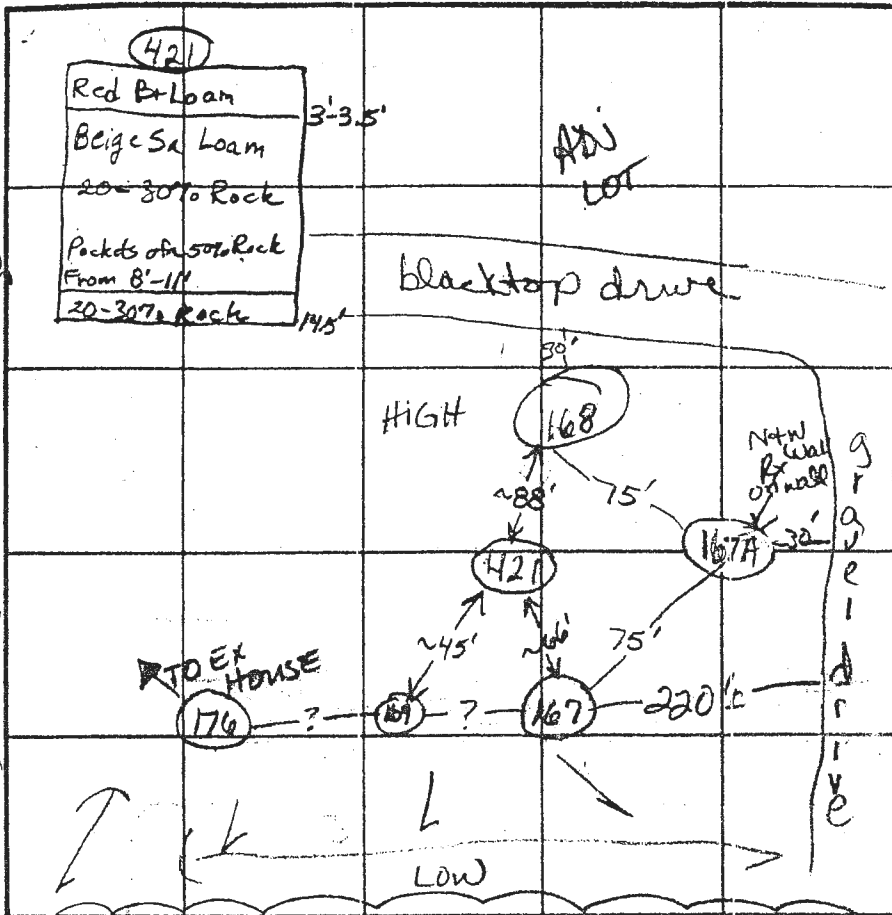
42D
 Strong
 y brn org brn
 cLLm
 2 1/2-3'
 org brn
 sil Lm
 bluish, org
 1/2
 SAND
 M aggregates
 60-65%
 blue
 white
 Rx
 1+brn
 Rx
 20-25%

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME	
			START	STOP	START	STOP		
5/9/02	42F	4' / 14' V	2:48	2:55		3:16	21 min OK	
		6'	2:42:10	2:44:50	2:44:50	2:53	9+ min	
	42E	7' / 13' V	3:02:08				Slow (F)	
5/10/02	42D	6.5' / 14' V	11:25	11:25:50	11:25:50	11:27:57	~2 (F)	
		NEEDS TESTING IN ROCK and above 25' off						
	42B	3 1/2' / 6' 1/2'	11:37	11:38:55	11:38:55	11:41:55	3 min	
		6' 1/2'	11:37:17	11:37:58	11:37:58	11:38:55	1 min	
		7' 12x12	11:49:47	11:50:40	11:50:40	11:51:50	1" (F)?	
	42C	12' H:R	Excessive Rock					(F)
	42A	6' 1/2' / 13' H:R	12:07:23	12:08:43	12:08:43	12:10:17	2 1/2 min OK	
		4 1/2'	12:12:40	12:18	12:18	12:23	5+ min	

REMARKS Holes per Plan 42F Profile on Lot 43 Sheet
 TYPE OF SOIL 42D Probably Not Useful
 TESTED BY BB/KG ALSO PRESENT HATFIELD
 TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____ TRENCH WIDTH _____

16084
COUNTY

SOIL PROFILE
(176)
Strong Red
Surface Rock
Stony 2-15%
hvy gravelly
Sandy loam
3'
Brown
Trace
Rock
Med
Grained
Sand
Bottom 14'



SOIL PROFILE
(167) / (167A)
0' DK brn
hvy loam
blocky
structure
17' DK brn
SAND-MED
grained
granular
structure
6-7' for 167A
50% Rx
ON NW
wall
platy
structure
14' Bottom

167A
will perc
@ 2'

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

(169)
Hvy Strong Rd
brn
SCUM
Rx < 10%
3'
NW wall
Rx begins
Total 15%
Loamy
sand
(med grain)
50% saprolite
greyish &
str. brn mottled
Bottom 14'

(168)
DK Brn
hvy
Loam
5'
Fine
loamy
sand
9'
V. Friable
Saprolite
< 20%
Bottom 14'

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
11-6-02	(176)	6 1/2' / 14'	2:20	2:22	2:22	2:26 ³⁰	3+ ok (OK)
	(169)	4 1/2' / 14'	2:31	2:36	2:36	2:42	6 min (OK)
	(168)	3 1/2' / 14'	2:43	2:46	2:46	2:50	4 min (OK)
	(167)	4' / 14'	3:02	3:04	3:04	3:08	4 min (OK)
	(167A)	4' / 14'	2:50	2:54	2:56	3:02	6 min (M)
3/25/03	421	4.5' / 14.5'	~ 30 seconds total				Fast O.K.
		16' 2"	4:07:20	4:08:25	4:08:25	4:09:15	1 min 10 sec

REMARKS: 3/26/03 = 421 8' 3:16 3:18 3:18 3:21 3

TYPE OF SOIL: Check Hole Locations in Field

TESTED BY: K.N. / B.B. / J.B. / F.A. ALSO PRESENT: Sperry + Hatfield

TRENCH DESIGN DATA. AVERAGE PERCOLATION TIME _____ TRENCH WIDTH _____

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

LEGEND

- EXISTING CONTOURS
- FIELD SURVEYED WELL LOCATION
- PASSED PERCOLATION TEST PER TEST NOTES
- FAILED PERCOLATION TEST PER TEST NOTES
- EXISTING APPROVED SEPTIC RESERVE AREA
- PROPOSED RESIVED SEPTIC RESERVE AREA
- EXISTING APPROVED WELL BOX
- PROPOSED 1500 SF WELL BOX

GENERAL NOTES

1. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT. THE LOT SIZE FULFILLS THE REQUIREMENTS OF THE ZONING REGULATIONS, AND IS A RECORDED LOT, PLAT 20675.
2. THIS AREA DESIGNATES A PRIVATE SEWERAGE AREA OF AT LEAST 10,000 S.F. AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWER IS AVAILABLE. THIS AREA SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWER SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWERAGE AREA. RECORDATION OF A MODIFIED SEWERAGE AREA PLAT SHALL NOT BE REQUIRED.
3. TOPOGRAPHY WAS FIELD SURVEY BY BENCHMARK ENGINEERING, INC. IN APRIL, 2022.
4. ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.
5. ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
6. THE EXISTING WELL SHOWN ON THIS PLAN (HO-95-0009) HAS BEEN FIELD LOCATED BY BENCHMARK ENGINEERING, INC.

I CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON FIELD WORK PROVIDED TO ME BY HOWARD COUNTY ENVIRONMENTAL HEALTH, AND IS CORRECT, TO THE BEST OF KNOWLEDGE AND BELIEF.

Alice A. Miller

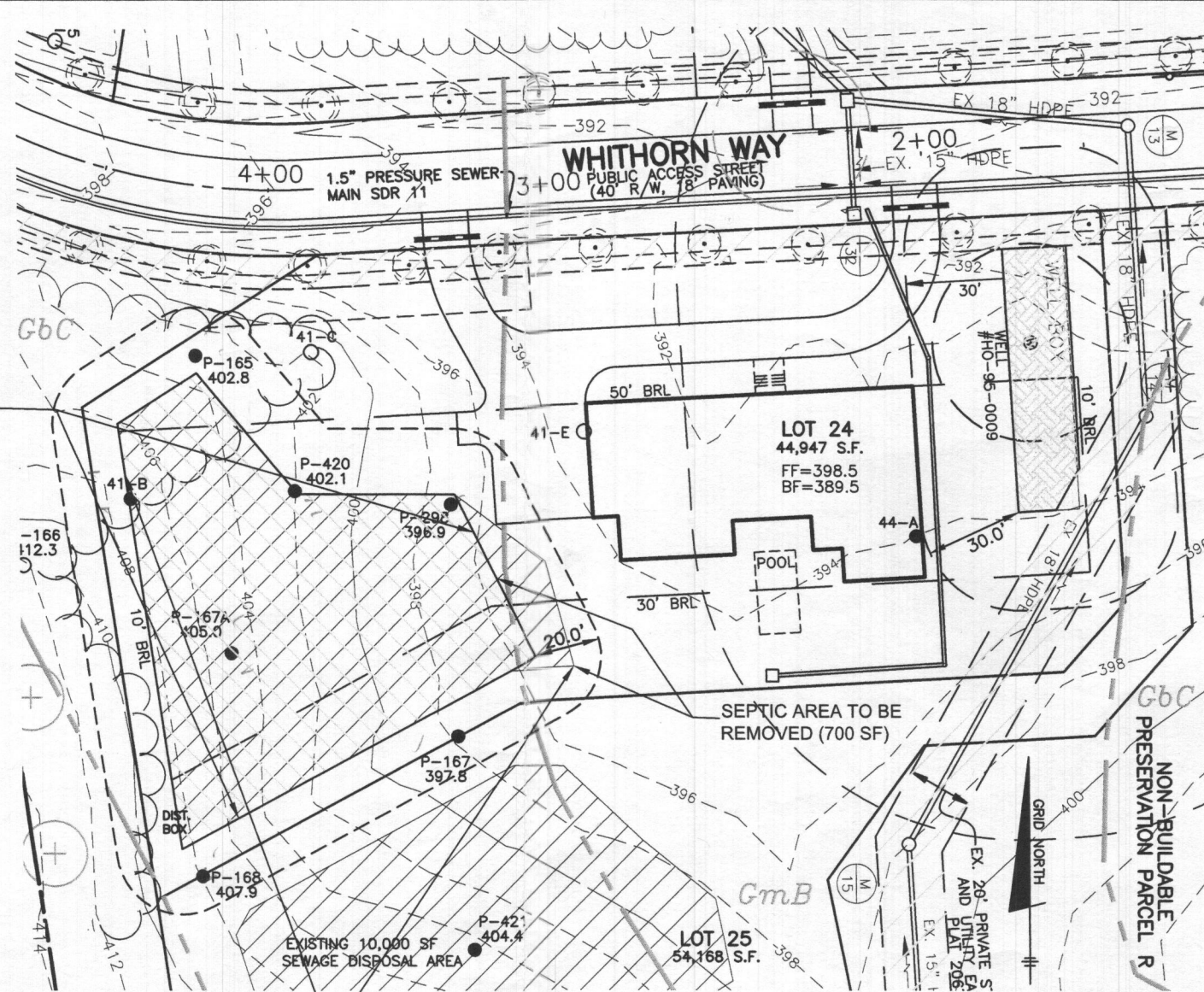
BEI-AAM
2022.07.01 08:16:55 -04'00

ALICE A. MILLER, P.E.
PLAN PREPARER FOR BENCHMARK ENGINEERING

APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEM
HOWARD COUNTY HEALTH DEPARTMENT

Howard County Health Officer
HOWARD COUNTY HEALTH OFFICER *no. 98* 2/29/22 DATE

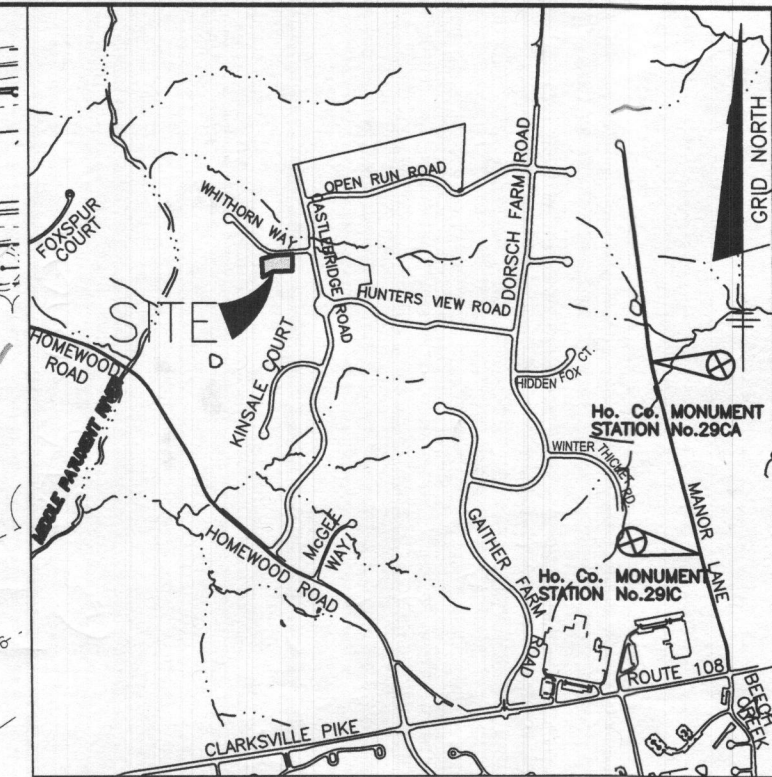
PROPOSED SEPTIC AREA
(10,004 SF)



PLAN VIEW

1" = 50'

EXISTING SEPTIC AREA
PER P-03-010 07/10/2003
SIGNED PERCOLATION
CERTIFICATION
(10,704 SF)



ADC MAP 4934 GRID E1
VICINITY MAP
SCALE: 1" = 2000'

PURPOSE STATEMENT: THE PURPOSE OF THIS REVISED PERCOLATION PLAN IS TO ADJUST THE SEWAGE DISPOSAL AREA TO ACCOMMODATE GRADING FOR THE DRIVEWAY ACCESS TO THE GARAGE.

PROJECT: **RIVERWOOD, PHASE 1**
LOT 24

LOCATION: TAX MAP: 29, GRID: 4, PARCEL: 20, ZONED: RC-DEO
11209 WHITHORN WAY ELLICOTT CITY MD 21042
THIRD ELECTION DISTRICT, HOWARD COUNTY, MD, TAX ID #03-345297

TITLE: **REVISED PERCOLATION CERTIFICATION**

DATE: JULY, 2022 PROJECT NO. 3099

SCALE: AS SHOWN DRAWING 1 OF 1

OWNER:

ARIF & HUMAIRA AYUB
6108 EVERY SAIL PATH
CLARKSVILLE, MD 21029
443-864-7956

BENCHMARK

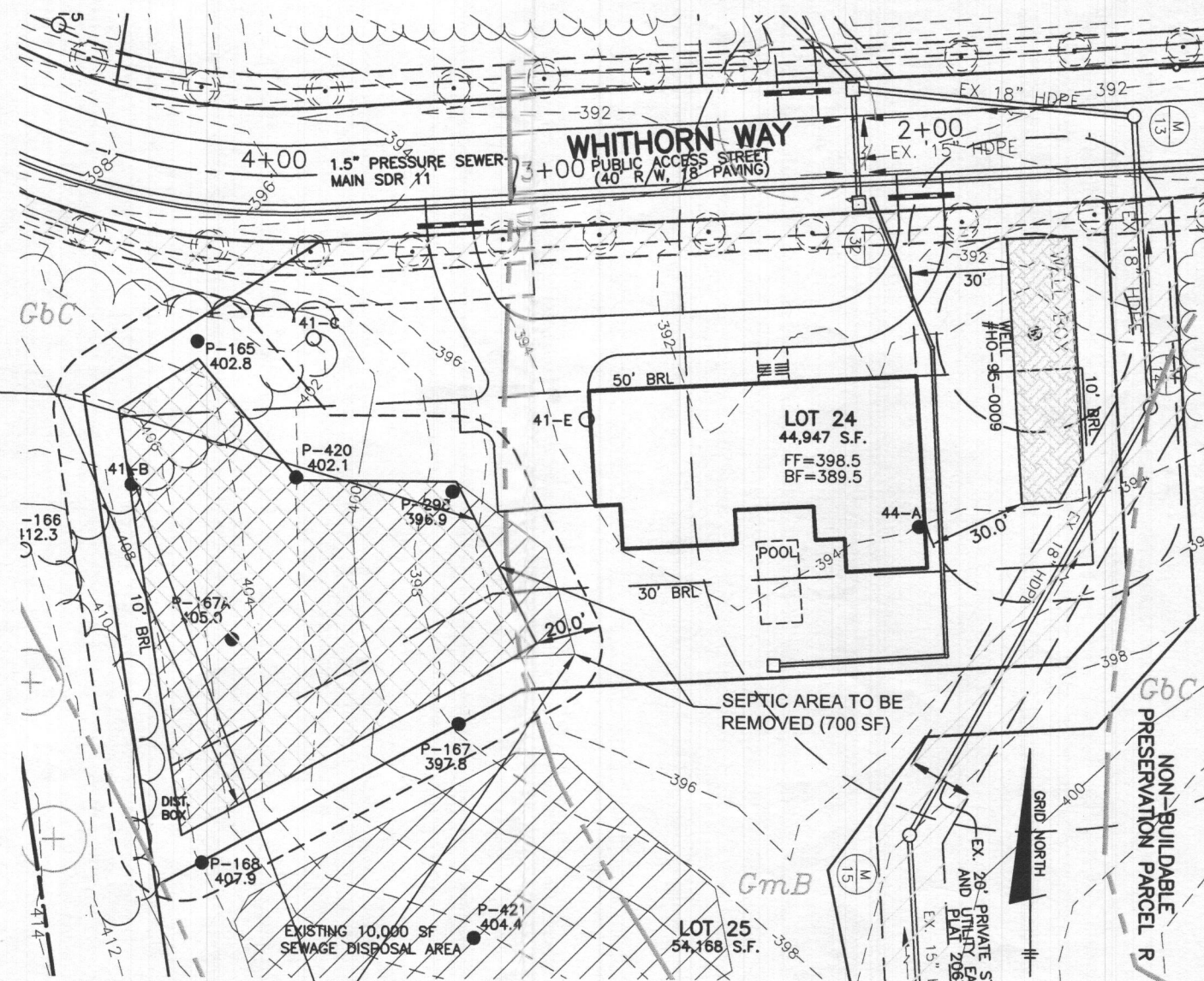
ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS
ENGINEERING, INC.
3300 NORTH RIDGE ROAD ▲ SUITE 140
ELLICOTT CITY, MARYLAND 21043
(P) 410-465-6105 ▲ (F) 410-465-6644
WWW.BEI-CIVILENGINEERING.COM

LEGEND

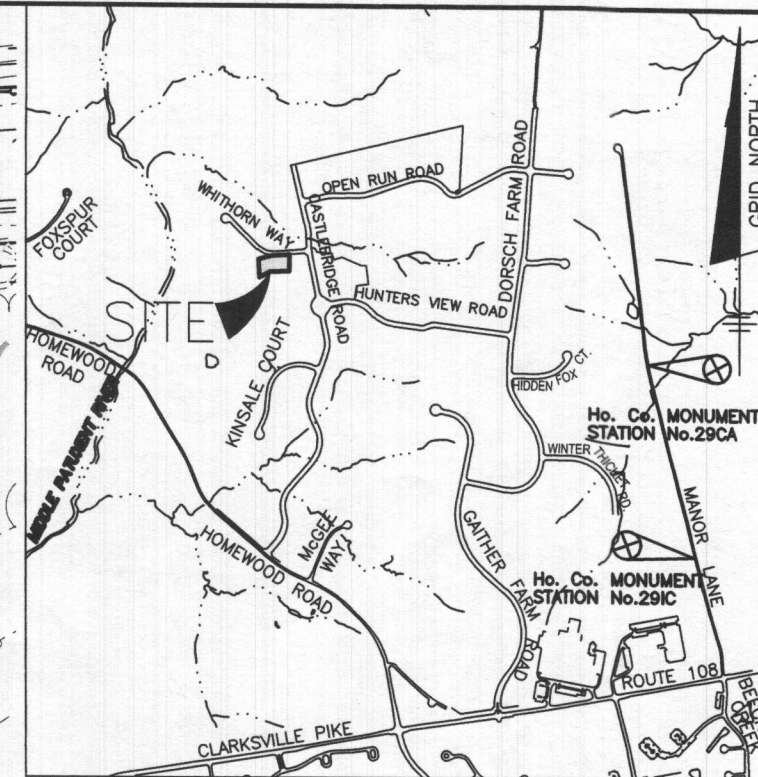
- EXISTING CONTOURS
- FIELD SURVEYED WELL LOCATION
- PASSED PERCOLATION TEST PER TEST NOTES
- FAILED PERCOLATION TEST PER TEST NOTES
- EXISTING APPROVED SEPTIC RESERVE AREA
- PROPOSED RESIVED SEPTIC RESERVE AREA
- EXISTING APPROVED WELL BOX
- PROPOSED 1500 SF WELL BOX

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3. TOPOGRAPHY WAS FIELD SURVEY BY BENCHMARK ENGINEERING, INC. IN APRIL, 2022.
4. ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.
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PLAN VIEW
1" = 50'



ADC MAP 4934 GRID E1
VICINITY MAP
SCALE: 1" = 2000'

I CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON FIELD WORK PROVIDED TO ME BY HOWARD COUNTY ENVIRONMENTAL HEALTH, AND IS CORRECT, TO THE BEST OF KNOWLEDGE AND BELIEF.

Alice A. Miller
BEI-AAM
2022.07.01 08:16:55 -04'00
ALICE A. MILLER, P.E.
PLAN PREPARER FOR BENCHMARK ENGINEERING

APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEM
HOWARD COUNTY HEALTH DEPARTMENT

For Will J. Owen
HOWARD COUNTY HEALTH OFFICER 40.98
DATE 7/29/22

OWNER:

ARIF & HUMAIRA AYUB
6108 EVERY SAIL PATH
CLARKSVILLE, MD 21029
443-864-7956

BENCHMARK
ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS
ENGINEERING, INC.
3300 NORTH RIDGE ROAD ▲ SUITE 140
ELLCOTT CITY, MARYLAND 21043
(P) 410-465-6105 ▲ (F) 410-465-6644
WWW.BEI-CIVILENGINEERING.COM

PURPOSE STATEMENT: THE PURPOSE OF THIS REVISED PERCOLATION PLAN IS TO ADJUST THE SEWAGE DISPOSAL AREA TO ACCOMMODATE GRADING FOR THE DRIVEWAY ACCESS TO THE GARAGE.

PROJECT: **RIVERWOOD, PHASE 1**
LOT 24

LOCATION: TAX MAP: 29, GRID: 4, PARCEL: 20, ZONED: RC-DEO
11209 WHITHORN WAY ELLICOTT CITY MD 21042
THIRD ELECTION DISTRICT, HOWARD COUNTY, MD, TAX ID #03-345297

TITLE: **REVISED PERCOLATION CERTIFICATION**

DATE: JULY, 2022 PROJECT NO. 3099

SCALE: AS SHOWN DRAWING 1 OF 1

FOR WETLANDS BEARINGS AND DISTANCES SEE SHEET 3

FOR 100-YEAR FLOODPLAIN BEARINGS AND DISTANCES SEE SHEET 2

POINT	NORTHING	EASTING
565	575750.9684	1339972.4800
566	575648.3668	1339978.2844
567	575633.2002	1339979.2675
568	575605.4772	1339956.5857
569	575599.2948	1339880.2043
570	575585.2153	1339831.3275
571	575545.2791	1339833.5868
572	575559.3586	1339882.4636
573	575565.7672	1339961.4380

BOUNDARY COORDINATES		
No.	NORTH	EAST
122	575453.12	1339522.96
123	575456.72	1339481.98
124	575637.93	1339375.73
151	576356.49	1339335.99

LOT NO.	GROSS AREA	PIPESTEM AREA	MINIMUM LOT SIZE
25	54,168	4,169	49,999

CURVE	RADIUS	LENGTH	DELTA	TANGENT	CHORD
C33	1580.00'	76.64'	02°46'45"	38.33'	S85°22'21"W 76.63'
C35	1620.00'	79.24'	02°48'09"	39.63'	N85°21'39"E 79.23'

AREA TABULATION CHART

TOTAL NUMBER OF LOTS AND/OR PARCELS TO BE RECORDED	
BUILDABLE	2
OPEN SPACE	0
NON-BUILDABLE PRESERVATION PARCELS	P/0 3
BUILDABLE PRESERVATION PARCELS	0
NON-BUILDABLE BULK PARCELS	P/0 1
TOTAL AREA OF LOTS AND/OR PARCELS TO BE RECORDED	
BUILDABLE	2.28± AC.
OPEN SPACE	N/A
NON-BUILDABLE PRESERVATION PARCELS	7.44± AC.
BUILDABLE PRESERVATION PARCELS	N/A
NON-BUILDABLE BULK PARCELS	11.55± AC.
TOTAL AREA OF ROADWAY TO BE RECORDED (INCLUDING WIDENING STRIPS)	0.30± AC.
TOTAL AREA OF SUBDIVISION TO BE RECORDED	21.57± AC.

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWER SYSTEMS:
HOWARD COUNTY HEALTH DEPARTMENT

Robert J. Walker 11/17/05
HOWARD COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Michael M. Bate 10/20/05
CHIEF, DEVELOPMENT ENGINEERING DIVISION MK DATE

Mark M. Langer 10/20/05
DIRECTOR DATE

SURVEYOR'S CERTIFICATION

I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THAT THE FINAL PLAT HEREON IS CORRECT; THAT IT IS ALL OF THE LANDS CONVEYED BY MARY CARTER CARROLL ZIEGLER, JOHN LEE CARROLL, PHELIP CARROLL, JOHN LEE CARROLL, JR., THOMAS T. CARROLL, GENEVIEVE A. CARROLL AND HOMEWOOD, L.L.C. TO WINCHESTER HOMES, INC. AND WINCHESTER HOMES, INC., NOMINEE FOR ELIOAK, L.L.C., BY DEED DATED SEPTEMBER 2, 2005 RECORDED AT LIBER 27671, FOLIO 570, RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND AND THAT ALL MONUMENTS ARE IN PLACE OR WILL BE IN PLACE PRIOR TO THE ACCEPTANCE OF THE STREETS IN THE SUBDIVISION BY HOWARD COUNTY, AS SHOWN IN ACCORDANCE WITH THE ANNOTATED CODE OF MARYLAND, AS NOW AMENDED.



David M. Harris 9/22/05
DAVID M. HARRIS REGISTERED PROFESSIONAL LAND SURVEYOR MARYLAND REG. No.10978 FOR BENCHMARK ENGINEERING, INC. MARYLAND REG. No.351 DATE

OWNER'S DEDICATION

L. LAWRENCE B. BURROWS, FOR WINCHESTER HOMES, INC., NOMINEE FOR ELIOAK, L.L.C. AND WINCHESTER HOMES, INC., OWNERS OF THE PROPERTY SHOWN HEREON, HEREBY ADOPT THIS PLAN OF SUBDIVISION, AND IN CONSIDERATION OF THE APPROVAL OF THIS FINAL PLAT BY THE DEPARTMENT OF PLANNING AND ZONING, ESTABLISH THE MINIMUM BUILDING RESTRICTION LINES AND GRANT UNTO HOWARD COUNTY, MARYLAND, ITS SUCCESSORS AND ASSIGNS, (1) THE RIGHT TO LAY, CONSTRUCT AND MAINTAIN SEWERS, DRAINS, WATER PIPES AND OTHER MUNICIPAL UTILITIES AND SERVICES IN AND UNDER ALL ROADS AND STREET RIGHTS-OF-WAY AND THE SPECIFIC EASEMENT AREAS SHOWN HEREON, (2) THE RIGHT TO REQUIRE DEDICATION FOR PUBLIC USE THE BEDS OF THE STREETS AND/OR ROADS, FLOODPLAIN AND OPEN SPACE WHERE APPLICABLE, AND FOR GOOD AND OTHER VALUABLE CONSIDERATION, HEREBY GRANT TO HOWARD COUNTY TO ACQUIRE THE FEE SIMPLE TITLE TO THE BEDS OF THE STREETS AND/OR ROADS AND FLOODPLANS, STORM DRAINAGE FACILITIES AND OPEN SPACE WHERE APPLICABLE, (3) THE RIGHT TO REQUIRE DEDICATION OF WATERWAYS AND DRAINAGE EASEMENTS FOR THE SPECIFIC PURPOSE OF THEIR CONSTRUCTION, REPAIR AND MAINTENANCE AND (4) THAT NO BUILDING OR SIMILAR STRUCTURE OF ANY KIND SHALL BE ERRECTED ON OR OVER THE SAID EASEMENTS AND RIGHTS-OF-WAY, WITNESS MY HAND THIS 22ND DAY OF SEPTEMBER, 2005.

Lawrence B. Burrows 9/22/05
SIGNATURE OF OWNER LAWRENCE B. BURROWS, PRESIDENT FOR WINCHESTER HOMES, INC. AND WINCHESTER HOMES, INC., NOMINEE FOR ELIOAK, L.L.C. DATE

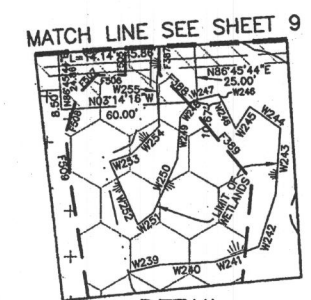
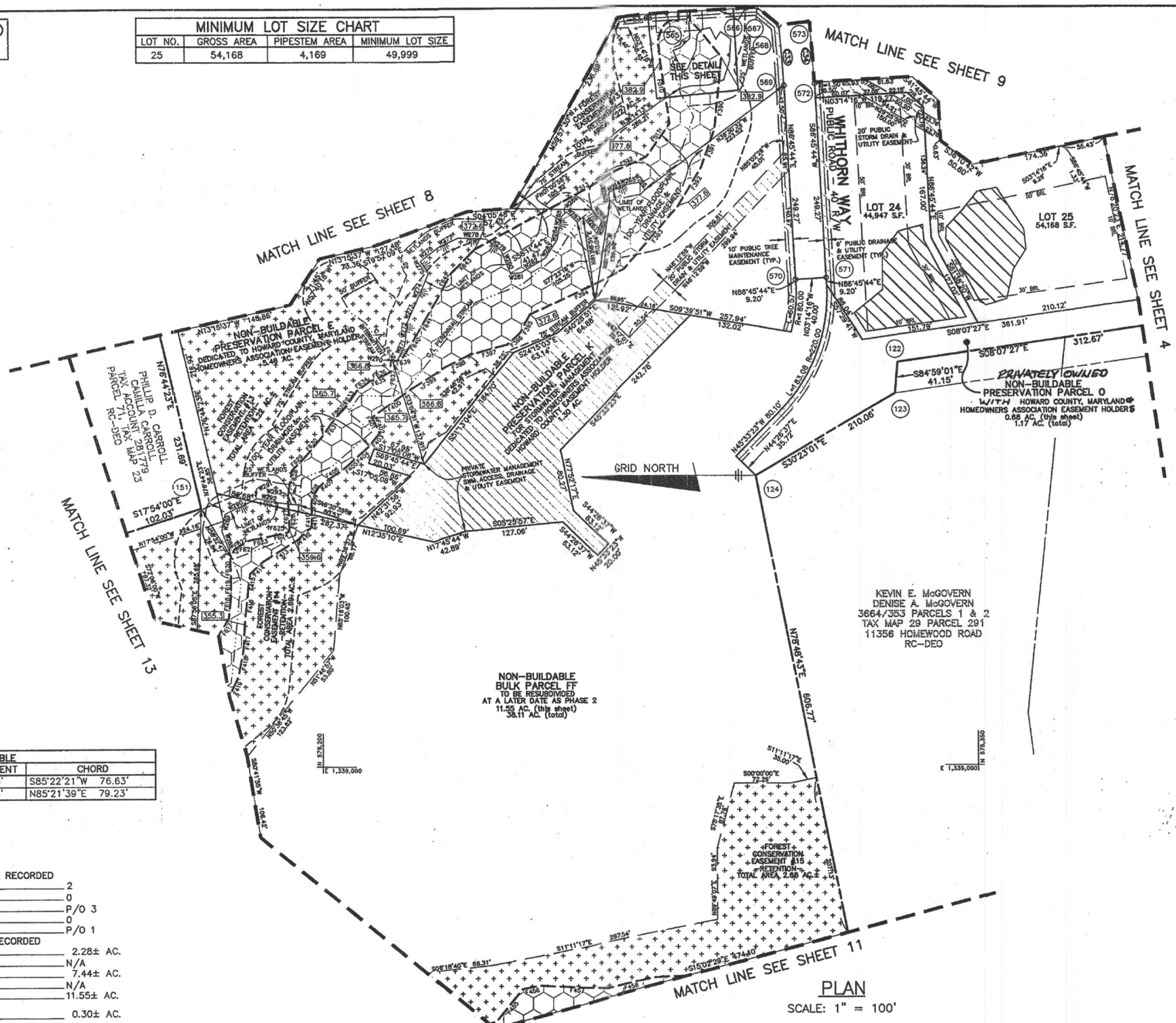
Rosalia B. Brett 9/22/05
WITNESS DATE

RECORDED AS PLAT 18040
ON 2-16-06 AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND.

RIVERWOOD PHASE 1

LOTS 1 THROUGH 42
NON-BUILDABLE PRESERVATION PARCELS A THROUGH P, R AND S
BUILDABLE PRESERVATION PARCEL Q
AND NON-BUILDABLE BULK PARCELS AA THROUGH HH

3rd ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
TAX MAP Nos. 23 AND 29 SCALE: AS SHOWN
PARCELS: 20 AND 86 DATE: APRIL, 2005
BLOCKS: 21 (MAP 23) AND 3, 4, 9 AND 10 (MAP 29)
ZONED: RC-DEO SHEET: 10 OF 15



DETAIL
SCALE: 1" = 50'

- LEGEND**
- (606) COORDINATE POINT
 - (R/W) R/W CURVE DESIGNATION
 - (356.5) 100-YEAR FLOODPLAIN ELEVATION
 - (P) PUBLIC AND PRIVATE UTILITY EASEMENTS
 - (F) 100-YEAR FLOODPLAIN
 - (F) FOREST CONSERVATION RETENTION
 - (W) LIMIT OF WETLANDS
 - (F) LIMIT OF 100-YEAR FLOODPLAIN
 - (S) SEWAGE DISPOSAL AREA

THE REQUIREMENTS § 3-108, THE REAL PROPERTY ARTICLE, ANNOTATED CODE OF MARYLAND, 1988 REPLACEMENT VOLUME, (AS SUPPLEMENTED) AS FAR AS THEY RELATE TO THE MAKING OF THIS PLAT AND THE SETTING OF MARKERS HAVE BEEN COMPLIED WITH.

David M. Harris 9/22/05
DAVID M. HARRIS DATE
MARYLAND REGISTERED PROFESSIONAL LAND SURVEYOR #10978 FOR BENCHMARK ENGINEERING, INC. MARYLAND REG. No.351

Lawrence B. Burrows 9/22/05
SIGNATURE OF OWNER DATE
LAWRENCE B. BURROWS

ENGINEER
BENCHMARK ENGINEERING, INC.
8480 BALTIMORE NATIONAL PIKE
SUITE 418
ELLCOTT CITY, MD 21043
410-455-6106
OWNER/DEVELOPER
WINCHESTER HOMES, INC.
6905 ROCKLEDGE DR., SUITE 800
BETHESDA, MD 20817
301-803-4800