



APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____

AP 534444

AGENCY REVIEW: _____

DATE 1-10-11

DO NOT WRITE ABOVE THIS LINE

I HEREBY APPLY FOR THE NECESSARY TESTING/EVALUATION PRIOR TO ISSUANCE OF SEWAGE DISPOSAL SYSTEM PERMIT(S) TO:

CHECK AS NEEDED:

- CONSTRUCT NEW SEPTIC SYSTEM(S)
- REPAIR/ADD TO AN EXISTING SEPTIC SYSTEM
- REPLACE AN EXISTING SEPTIC SYSTEM

CHECK AS NEEDED:

- NEW STRUCTURE(S)
- ADDITION TO AN EXISTING STRUCTURE
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CHECK ONE:

- CREATE NEW LOT(S)
- BUILD ON AN EXISTING LOT IN A SUBDIVISION
- BUILD ON AN EXISTING PARCEL OF RECORD

IS THE PROPERTY WITHIN 2500' OF ANY RESERVOIR?

- YES
- NO

THE TYPE OF STRUCTURE IS:

- RESIDENTIAL WITH _____ PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE (NOTE **UNKNOWN** IF APPROPRIATE)
- COMMERCIAL (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/ CUSTOMERS ON ACCOMPANYING PLAN)
- INSTITUTIONAL/GOVERNMENT (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/USERS ON ACCOMPANYING PLAN)

PROPERTY OWNER(S) GLEN MULLINIX & SHERRI RANDOLPH MULLINIX CARE OF STAN ZIMMERMAN

DAYTIME PHONE 410 461 7600 CELL 443 474 4116 FAX _____

MAILING ADDRESS 2534 MCKENZIE ROAD ELLICOTT CITY MD 21042
STREET CITY/TOWN STATE ZIP

APPLICANT RICHARDSON ENGINEERING, LLC (FOR CHIN BAPTIST MISSION CHURCH)

DAYTIME PHONE 410 560 1502 CELL 443 324 3148 FAX 443 901 1208

MAILING ADDRESS 30 EAST PADONIA ROAD SUITE 500 TIMONIUM MD 21093
STREET CITY/TOWN STATE ZIP

APPLICANT'S ROLE: DEVELOPER BUILDER BUYER RELATIVE/FRIEND REALTOR CONSULTANT

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME GREEN MEADOWS LOT NO. 2

PROPERTY ADDRESS 2510 HOBBS ROAD GLENWOOD MD 21738
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 14 GRID 11 PARCEL(S) 217 PROPOSED LOT SIZE 10.02 AC

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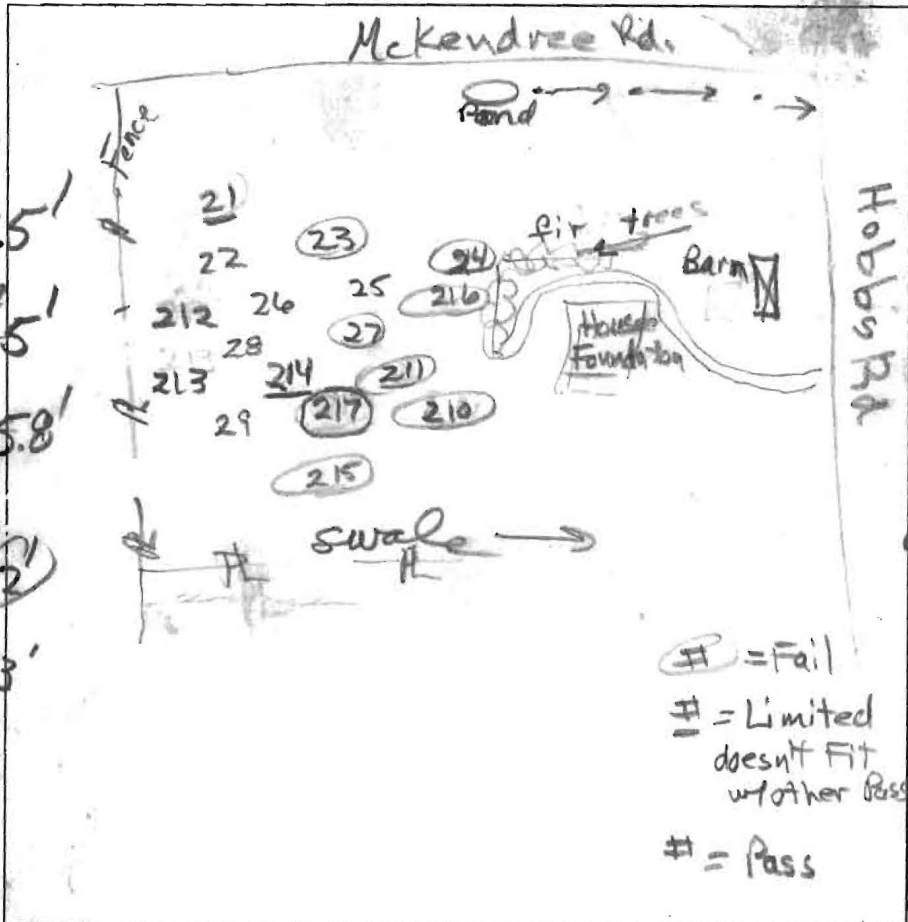
TEST RESULTS WILL BE MAILED TO APPLICANT. _____
SIGNATURE OF APPLICANT

HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM
7178 COLUMBIA GATEWAY DRIVE COLUMBIA, MARYLAND 21046 (410) 313-2640 FAX (410) 313-2648
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH

A/P

25

frozen top soil to
brn SCL
brn SL 3.5'
heavy dense
brn GSL 5'
15%
brn GSL 5.8'
25% to 35%
darker brn
45% VSTSL 13'



(27)
3' brn SCL
brn
GSL
4' heavy dense
brn VGS
35%
7' dk brn
VSTSL
60%
8.5' rock

23

brn SCL
to brn SL
heavy

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
2/3/11	25	5.7' 12'	10:01	10:09	10:35	30"	F
2/3/11	27	7'	60%	70%	rock		F
2/3/11	26	7' 13.5'	12:08	12:10	12:15	5"	P
reshold	25	6.8' 12'	11:19	11:24	11:32	8"	P
2/3/11	23	9.5'	water table indicated	water observed at 12:15			F
2/3/11	211	5.5'	70%	80%	rock		F
2/3/11	28	7' 13.5'	12:34	12:45	1:12	27"	P
2/3/11	215	6'	rock	refusal			F

(28)
1.3' grey-brn SL
brn SCL
4' brn SL
heavy dense
5.5' brn SL
brown
11.5' grey-brn SL
13.5'

211

brn SCL 4.5'
brn STSL heavy
5.5'
X B Y SL
70% - 80%

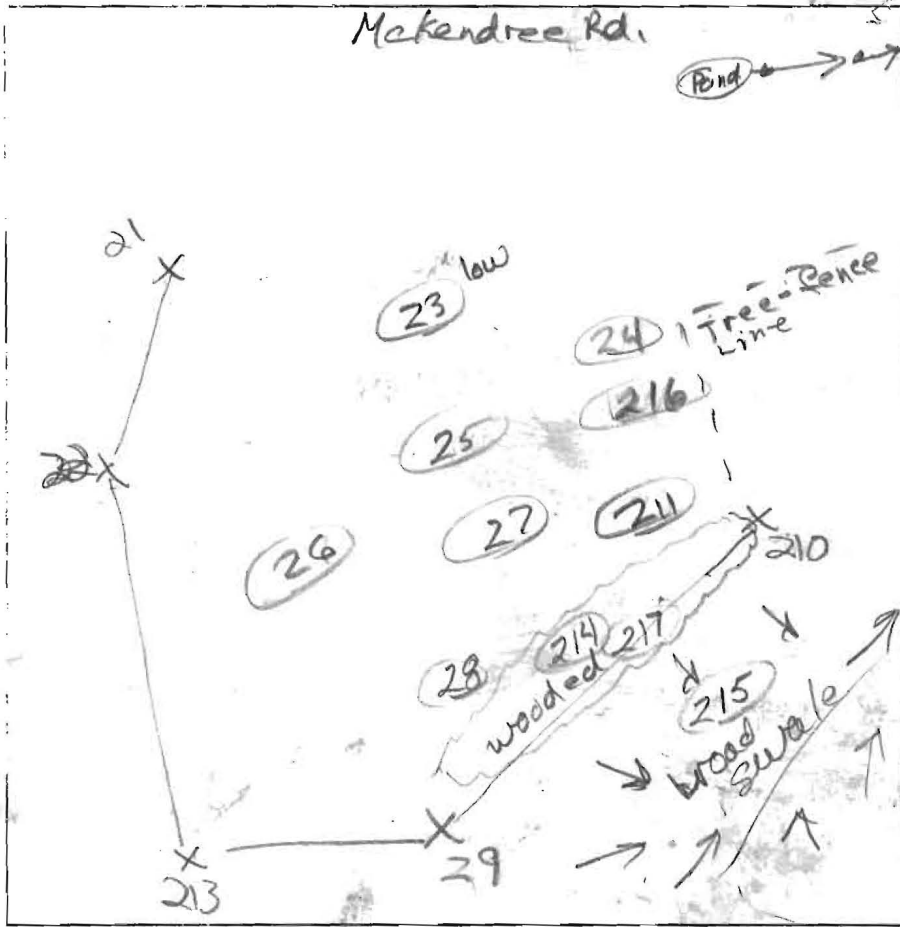
(215)
brn SCL
brn SL
heavy
5.2' brn STSL
6' R

REMARKS #24, old D-Box; #23 low top soil
SANITARIAN RB/MS/JW BACKHOE Mark Andrew Ken
TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH 8 EFFECTIVE SW 2

21
 1/2' rd sl
 2 1/2' rd sl dense
 4 1/2' 5% rocks
 10 1/2' 12' sl
 12' grey
 water

22
 1' br cl
 2 1/2' rd scl
 chambers
 7 1/2' rd sl
 dense
 water

213
 1' brn cl
 3' rd scl
 dense
 mica
 few rcks 5%



217
 4.5' brn scl
 7' brn scl
 grey-brn
 SL
 few gravel
 & stones
 9' R

210
 5' rd scl
 chambers
 dense
 dense st
 red ylw
 10 1/2' 13 1/2' lght br
 ls
 5% rcks

29
 scl
 dense
 1/2' st
 ylw brn
 few rcks
 mica
 13 1/2' black, moist
 dense
 water

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
2/3	21	7' / 10.5'	10:26	10:36	10:47	11'	F
	22	7' / 13.5'	10:35	10:51	11:11	20'	P
	213	7' / 15'	12:37	12:51	1:09	18'	P
	29	7' / 15'	12:25	12:34	12:51	17'	P
	210	7' / 13 1/2'	2:02	2:23	2:53*	over 30'	F
2/3/2011	214	13.5'	sidewall good		5' to 8'	0.6 gpd/sq ft	P RB
2/3/2011	217	9'	'OK' RB		4.5' to 5'	0.69 gpd/sq ft	P

REMARKS _____

SANITARIAN JW / MS / RB BACKHOE Mark, Andrew OTHERS Ken, Chris

TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____

TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH 8 EFFECTIVE SW 3

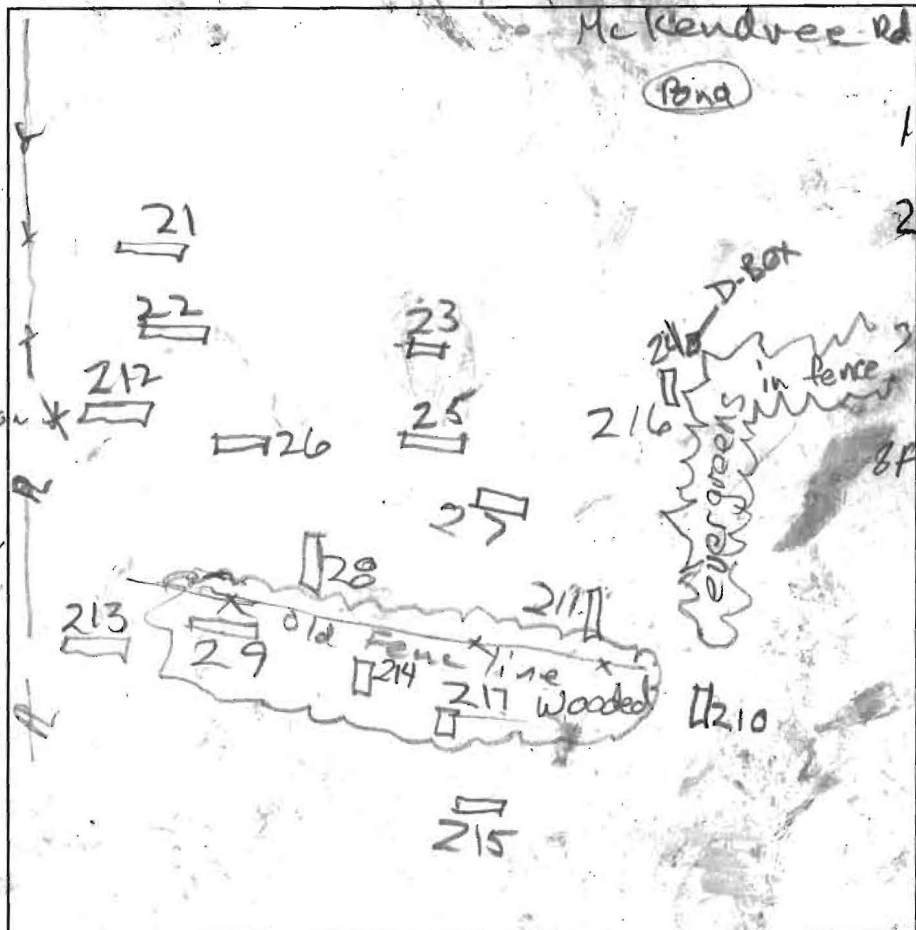
AP 20

212

1/2" loam
Brown CR
2ft
dense
SL-Mica
Red yellow
5ft
LS
Chanury
7.9ft
Mogansu
13-

216.1
Red Brown
Loam
CR
1 1/2"
CL-Red
3ft
SL-dense
-50% rock
-Red
brown VGS
6ft
-70% rock
LS
13.2'

211
3 1/2"
-20%
rock
7ft
-50%
rock
5 1/2"
-boulders
70%



1 1/2" L-Red-Cr
1 1/2" Red CL
dense
2ft Sand loam
Med-Red
3ft loamy sand
fine
Red Yellow
8ft
13 1/2"

214
1.5' brn loam
4.5' yel-red SL
5' sl, dense
5' lt, brn
sl
9' yel-brn
ls
11.5' brn st/ls
grey stones
13.5' R

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
2/3/11	212	6 1/2'	12:47	12:49	12:54	5	P
2/2/11	216	7 1/2'	1:57	2:17	2:47 + 30'		F
2/3/11	211	5.5'	70% - 80% rock				F
2/3/11	216	7 1/2' / 13.5'	12:08	12:10	12:15	5	P

REMARKS _____
 SANITARIAN Mike J / RB / J BACKHOE Mark, Randy, Ken OTHERS Chris
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH 8 EFFECTIVE S/W 2

gray-brown
frozen

brn SCL 4'

3.8 OK

brn FSL
heavy

5.3'

yel-brn,
brn,

(C1 D. (blk))



Bureau of Environmental Health
7178 Columbia Gateway Drive, Columbia, MD 21046-2147
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

Peter L. Beilenson, M.D., M.P.H., Health Officer

January 21, 2011

To: Rick Richardson, Richardson Engineering, LLC
Applicant, FAX 443-901-1208

From: Robert Bricker, CPSS, REHS/RS, Environmental Sanitarian Supervisor
Well and Septic Program

RE: 2510 Hobbs Road; Tax Map 14, Parcel 217; Percolation Application Plan, A534444

The proposed testing for expansion of the septic reserve cannot be scheduled at this time.

- That portion of the septic reserve area represented by percolation test locations 4 and 5, approximately coinciding with 1973 test locations 3 and 2 respectively, are within the GnB soil map unit. Testing soils in the GnB soil map unit can only be conducted during a wet-season test period declared by the local Approving Authority.

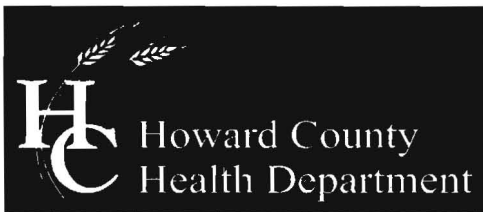
Items 1, 2 and 3 in the following list must be resolved on the percolation test plan. Items 4 and 5 may be addressed at a later date, after you have re-visited the project location.

1. The area represented by percolation test location #5 is inappropriate. The configuration of the septic reserve needs to be adjusted so that distribution systems are installed within the designated septic reserve area, and have equal length trenches oriented with the natural contour. Please be advised that the minimum trench length allowed in Howard County is 40 feet (while the maximum trench length allowed is 100 feet).
2. Proposed percolation test locations 1, 2, 3 and 4 are appropriate. See the attached graphic on which I have indicated 6-7 additional test locations.
3. On the subject property, three discrete well locations with 100-foot radii must be proposed, or a 1500 square-foot well box with 100-foot elliptical radius. As these locations will likely be downgradient of the proposed septic reserve they must be at least 200 feet from the septic reserve. If discrete well locations are proposed, they must be separated from each other by at least 50 feet. All other regulated setbacks must also be observed.
4. There is a well near the road right-of way (and driveway) at 2732 McKendree Road.
5. There is a small structure at 2509 Hobbs Road that potentially may house a spring or shallow well. I think it is the structure you have labeled as a garage. What and where is the drinking water source for 2509 Hobbs Road?

If you have inquiries regarding the requirements stated above you may contact me by calling the Bureau of Environmental Health (410-313-1771) or my desk (410-313-2691).

Copy: file

*call from:
Chris Donbeck*



Bureau of Environmental Health
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website: www.hchealth.org

Peter L. Beilenson, M.D., M.P.H., Health Officer

February 7, 2011

Chris Dombeck
Richardson Engineering, LLC (Applicant)
chris@richardsonengineering.net

RE: PERCOLATION TEST RESULTS, Tax Map 14, Parcel 217; 2510 Hobbs Road;
A-534444

Mr. Dombeck,

Percolation testing was conducted on the subject property on February 3, 2011. Field data collected are shown on three Percolation Test Worksheets enclosed with this letter. Recommended Inlet and Trench Bottom Depths, and Usable Sidewall are provided for subsequent system design, and all are based on observed soil properties and characteristics at respective test locations as well as the particular soils materials tested.

Percolation test results indicate that soil conditions both satisfactory and unsatisfactory for wastewater disposal occur in the area investigated. Several test locations were added in the field so as to expand and define boundaries of the area approvable as a septic reserve. The relative locations of the tests are sketched on the field worksheets. The locations of the sixteen percolation tests need to be platted to determine if the area of satisfactory soils is adequate for the proposed use. If more area is needed, additional percolation testing for sand mound sites may be considered.

Unsatisfactory soil conditions have the following general characteristics (at the numbered test locations): very slow percolation rates at depths of about 7 to 8 feet ('210' and '216'); shallow indurate rock or rock content greater than 50% ('27', '211', and '215'); and shallow seasonal water table ('23'). At staked location '24' an old distribution box was found; the area thus represented as a former septic system and no longer usable.

Unsatisfactory conditions also effected two other locations, limiting the usable soils in otherwise satisfactory soil profiles. At '217' the usable profile is limited to 4.5 ft to 5 ft depth due to a rock shelf at 9 feet depth, and at '21' the usable profile is limited to 4.5 ft to 6.5 ft depth due to seasonal water table at 10.5 feet depth.

Soil conditions satisfactory for wastewater disposal occur at staked locations '22', '25', '26', '28', '29', '212', '213' and '214'. These test locations have a similar depth and width of effective sidewall, i.e. 6 feet to 8 feet. A loading rate of 0.8 gallons per day per square foot of trench absorption area (gpd/sq.ft.) is appropriate for areas represented by locations '25', '26', '212' and perhaps '22'. The remaining area of satisfactory soils has a loading rate of 0.6 gpd/sq.ft..

Further review of this proposal is contingent upon submission of a Percolation Certification Plan that meets state and county requirements. The Percolation Certification Plan for development of the subject property must show a septic reserve area of at least 10,000 square feet and large enough to accommodate an initial distribution system and two repair distribution systems for the anticipated peak flow from the planned facility. Three discrete well locations, or 1500 square-foot wellbox, must be shown. The plan will include a note stipulating that the well will be drilled and the Well Completion Report approved prior to Health Department approval of the building permit application. Another note will stipulate that the existing well will be sealed. Other notes describing anticipated peak discharge (based on planned church capacity) and trench designs will be included on the plan. Requirements such as pre-treatment or installation of repair trenches may be imposed pending review of the development proposal. (For example, if only two drainfields fit in the proposed septic reserve, then pre-treatment will be required.) If a kitchen is planned, a grease trap and estimates for the maximum number of people who may be served from the planned kitchen will be required.

If you have any questions regarding this matter, please contact me at the above address or by calling (410) 313-2691.

Respectfully,



Robert Bricker, RS/REHS, CPSS
Well and Septic Program
Development Coordination Section

Enclosures (3)

Copy: Rick Richardson
Stan Zimmerman (for Glen and Sherri Mullinix, owners)
File



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Peter L. Beilenson, M.D., M.P.H., Health Officer

February 22, 2011

To: Chris Dombeck, Richardson Engineering
chris@richardsonengineering.net

From: Robert Bricker, CPSS, REHS/RS
Environmental Sanitarian Supervisor
Well and Septic Program

RE: Chin Baptist Mission Church, 2510 Hobbs Road; Percolation Certification Plan,
PC534444

The following deletions, additions or corrections are needed on the submitted plan:

1. Show the well at 2732 McKendree Road.
2. Show the existing septic tank (per Health Department records, see diagram enclosed) and label 'TO BE ABANDONED'.
3. Label existing well 'TO BE SEALED'. (Only a 25-foot radius is required around the existing well as it is to be sealed.)
4. Add this Note: ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERC CERTIFICATION PLAN.
5. Add this Note: THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP, WIDTH, AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
6. A phrase is needed in Note 3 indicating that the topography has been field run or field verified.
7. Replace Note #4 with this Note: EXISTING WELLS, SEPTIC SYSTEMS, AND SEWAGE DISPOSAL AREAS WITHIN 100' OF THE PROPERTY AND THOSE WELLS WITHIN 200' DOWN GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS OR SEWAGE DISPOSAL AREAS HAVE BEEN SHOWN.
8. Add this Note: THE NEW WELL SHALL BE DRILLED PRIOR TO BUILDING PERMIT APPROVAL. IT IS THE DEVELOPER'S RESPONSIBILITY TO SCHEDULE THE WELL DRILLING PRIOR TO BUILDING PERMIT APPLICATION SUBMISSION. IT WILL NOT BE CONSIDERED "GOVERNMENT DELAY" IF THE WELL DRILLING HOLDS UP HEALTH DEPARTMENT SIGNATURE APPROVAL OF THE BUILDING PERMIT APPLICATION.
9. Add this Note: EXISTING WELL WILL BE SEALED AND THE ABANDONMENT REPORT RECEIVED BY THE HEALTH DEPARTMENT PRIOR TO APPROVAL OF BUILDING PERMIT APPLICATION.

10. Add this Note: THE SEPTIC TANK WILL BE LOCATED AND PROPERLY ABANDONED, AND DOCUMENTATION RECEIVED BY THE HEALTH DEPARTMENT, PRIOR TO BUILDING PERMIT APPROVAL.
11. Correct septic system design notes as follows and adjust calculations accordingly:
 - a. The conversion factor is 0.62 (as there is only 2 feet of effective sidewall in any part of the proposed septic reserve area).
 - b. The Pump Tank is too small. There must be a day of storage (1800 gallons) capacity between the 'ALARM ON' and Invert IN. The 'ALARM ON' is positioned at least 0.5 ft above the 'PUMP ON' elevation. Please note that the pump is placed on a 'block' base, and the pump housing should always be completely submerged in solution, i.e. the 'PUMP OFF' switch is located at the top of the housing or higher.

If you have any questions regarding this evaluation or requirements for the Percolation Certification Plan, please contact me at the above address or by calling (410) 313-2691.

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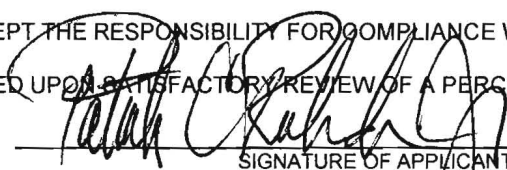
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SAND COUNTY HEALTH DEPT
ENVIRONMENTAL HEALTH

2011 JUN 10 PM 1:31

rick@richardsonengineering.net



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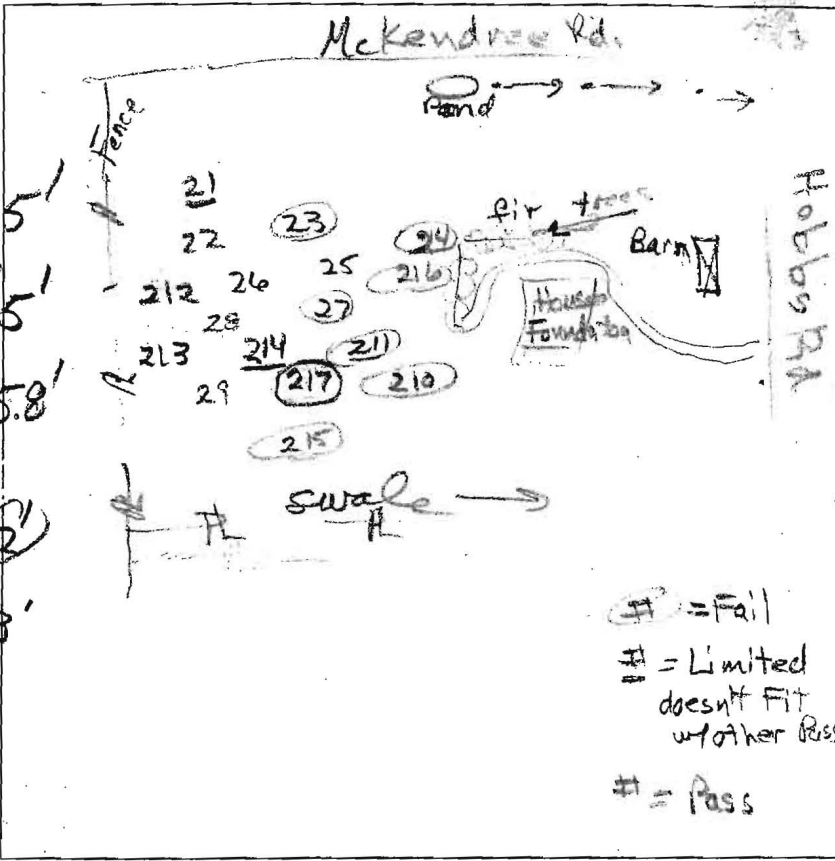
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AP

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 brn SCL
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 brn SL
 heavy, dense
 5'
 brn GSL
 15%
 5.8'
 brn GSL
 25% to 35%
 12'
 darker brn
 VSTSL
 45%
 13'



27
 3' brn SCL
 4' brn GSL
 heavy, dense
 brn V GSL
 35%
 7' dk brn
 VSTSL
 60%
 8.5' rock

23
 brn SCL
 to brn SL
 heavy
 11.5'
 brn SCL
 13.5'

28
 11.3' brn SCL
 4' brn SL
 heavy, dense
 5.5' brn SL
 brownish?
 11.5' grey-brn SCL
 13.5'

= Fail
 # = Limited
 doesn't FIT
 w/ other Pass
 # = Pass

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
2/3/11	25	5.7' 12'	10:01	10:08	10:38	30'	F
2/3/11	27	#	60%	70% rock			F
2/3/11	26	7' 13.5'	12:08	12:10	12:15	5	P
reshold	25	6.8' 12'	11:19	11:24	11:32	8	P
2/3/11	23	9.5'	Water - Table indicated water observed at 11:15				F
2/3/11	211	5.5'	70%	80% Rock			F
2/3/11	28	7' 13.5'	12:34	12:45	1:12	27	P
2/3/11	215	6'	rock - Refusal				F

211
 brn SCL
 4.5'
 brn STSL
 heavy
 5.5'
 X B Y SL
 70% - 80%

215
 3.5' brn SCL
 brn SL
 heavy
 5.2' brn STSL
 6' - R -

REMARKS #24, old D-Box; #23 low top soil
 SANITARIAN RB/MS/SW BACKHOE Mark Andrew OTHERS Ken
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH 8 EFFECTIVE SW 2

AP 20

1/2
2ft
26
loam
Brown CR

5ft
dense
sl. mica
Red yellow

7.9ft
LS
Chanury
Majuro

215
1 1/2
Red Brown
Loam
CR

3ft
CL-Red

4ft
SL-dense
-Red
brown VLS
-70% rock

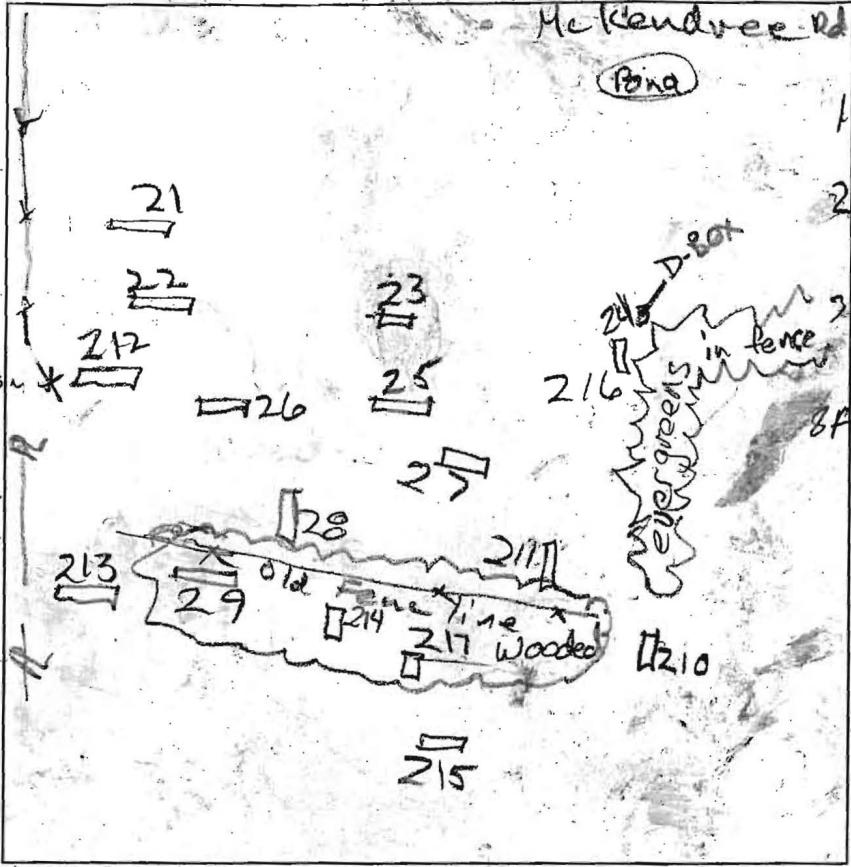
6ft
LS

13.2'

211
3 1/2
-20%
rock

7ft
-50%
rock

5 1/2
-boulders
↑70%



1 1/2
L-Br-Cr

1 1/2
Red CR
dense

2ft
Sand loam
Med-Red

2ft
loamy sand
fine
Red Yell

13 1/2

50% rock

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
2/3/11	212	6 1/2	12:47	12:49	12:54	5	P
2/3/11	216	7 1/2	1:57	2:17	2:47	30+	F
2/3/11	211	5.5'	70% - 80% rock				F
2/3/11	216	7 1/2	12:08	12:10	12:15	5	P



214
1.5
brn loam

4.5
yel-red sil

5
sl, dense

9
lt. brn
sl

11.5
yel-brn
ls

13.5
brn stls
gray silts
R

REMARKS _____

SANITARIAN Mike S / RB/S BACKHOE Mark, Randy OTHERS Ken
Andrew Chris

TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____

TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH 8 EFFECTIVE SW 2

AP

Makendree Rd.

217

21
 8'
 26'
 4 1/2'
 10 1/2'
 12'

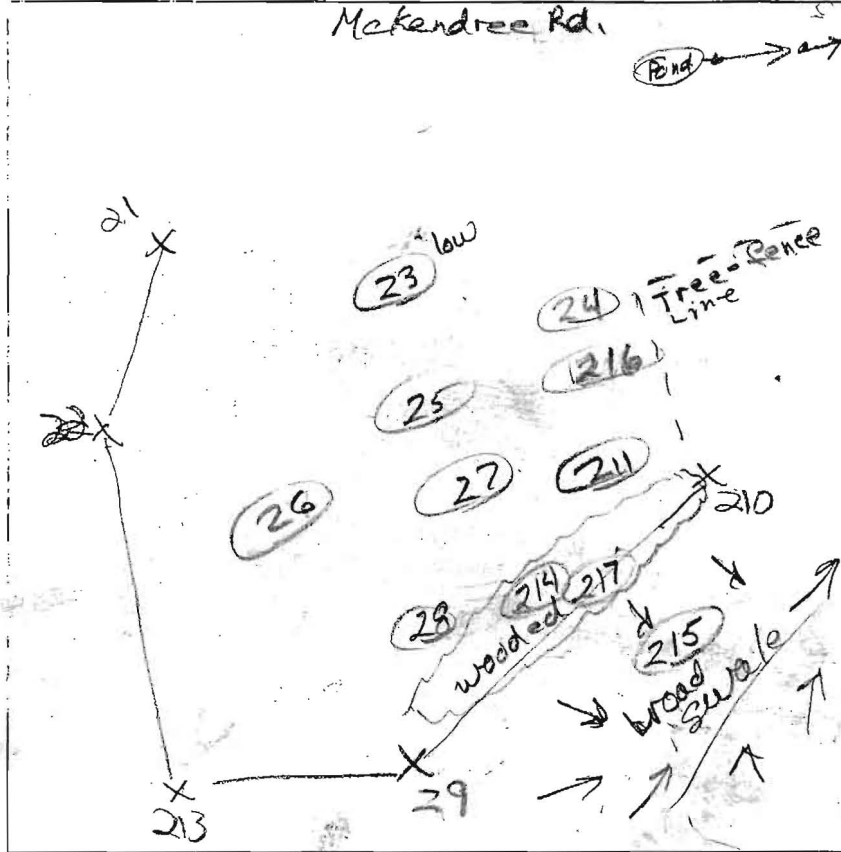
brn cl
 st dense
 sb rocks
 sl
 pl
 greenish rdbr
 grey
 water

22
 1'
 2 1/2'
 7 1/2'
 15'

br cl
 rd scl
 channers
 mica
 rd sl
 dense
 platy
 rd brn
 sl
 water

213
 1'
 3'
 15'

brn cl
 rd scl
 dense
 mica
 few rdg 5%



4.5'
 7'
 9'

brn scl
 brn sl
 grey-brn
 sl
 few gravel
 & stones
 R

210
 5'
 10 1/2'
 13 1/2'

red scl
 channers
 dense
 dense st
 rd ylw
 lght br
 ls
 sb rocks

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
2/3	21	7' 10.5'	10:26	10:36	10:45	11'	F - high water
	22	7' 13.5'	10:35	11:01	11:11	20	P
	213	7' 15'	12:32	12:31	1:09	18	P
	29	7' 15'	12:25	12:34	12:51	17	P
	210	7' 13 1/2'	2:02	2:23	2:53	over 30	F
2/3/2011	214	13.5'	sidewalk OK for		good 5/10 S	0.6 gpd/sq ft	P RB
2/3/2011	217	9'	10' RB	4.5'	to 5'	0.6 gpd/sq ft	P

29
 4 1/2'
 13 1/2'
 15'

scl
 dense
 sl
 yw brn
 few rdg
 mica
 black, moist
 dense
 water

REMARKS _____
 SANITARIAN JW / MS / RB BACKHOE Mark, Andrew OTHERS Ken
Randy Chris
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH 8 EFFECTIVE SW 2

PROPOSED
31,062 Sq. Ft.
PRIVATE SEWAGE
DISPOSAL AREA

EXISTING PRIVATE
SEWERAGE EASEMENT
PER PLAT 3994

#2510
EXISTING
FOUNDATION
(TO BE REMOVED)

PROPOSED
FOREST CONSERVATION
EASEMENT
89,634 Sq. Ft.

EXISTING
IN-GROUND POOL
(TO BE REMOVED)

PROPOSED
2-STORY
SANGTUAR
8,284 Sq.
FLOOR

FLOOD PLAIN AREA DEDICATED
PLAT 3994
24,301 Sq. Ft. OR 0.5579 Ac. ±

REAR

N 23°12'01" W 680.46'

SIDE YARD SETBACK

30'

595
60'

590

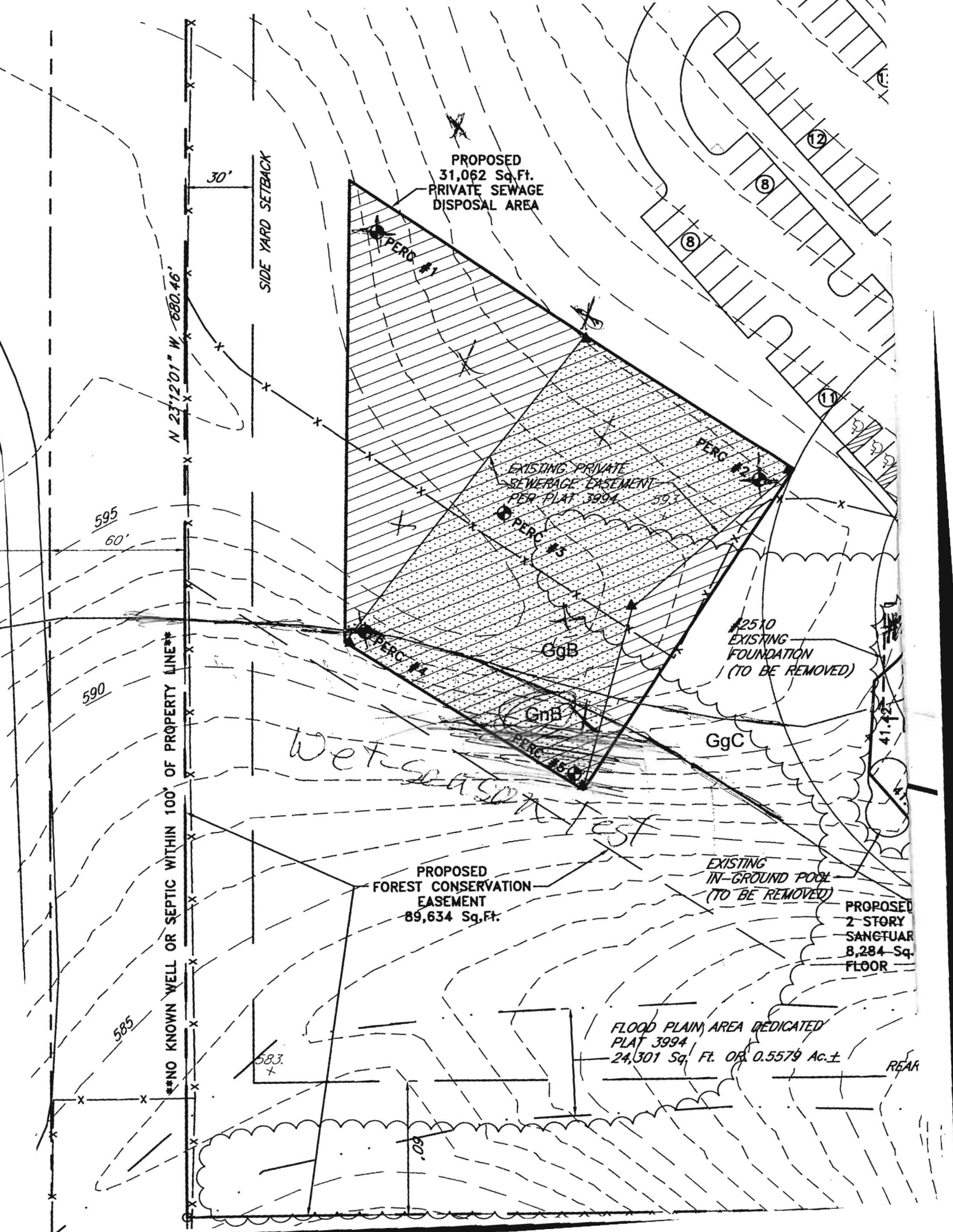
NO KNOWN WELL OR SEPTIC WITHIN 100' OF PROPERTY LINE

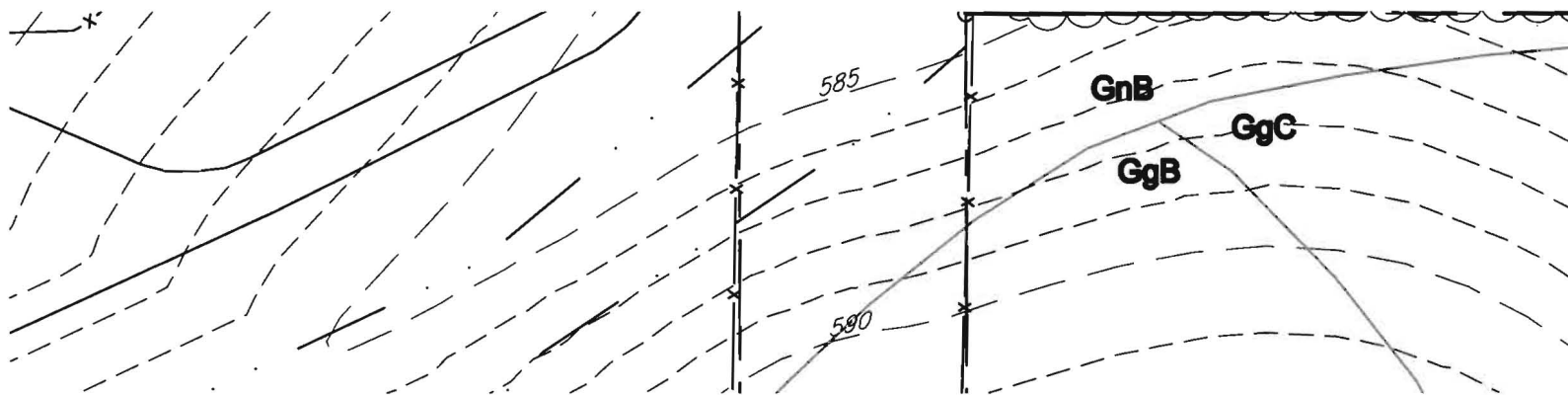
585

583

60'

Wet season test





PROPOSED 600 SEAT CHURCH

TESTS #22, #25, #26 & #212

3' WIDE TRENCH: 600 x 3 G.P.D. = 1800 GALLONS PER DAY

$1800 / 0.8 = 2250$ ~~G.P.D.~~ / 3' = 750 ~~G.P.D.~~ FT.

$750 \times .62 = 465$ LF. \rightarrow SQ. FT.

TESTS #28, #29, #213 & #214

3' WIDE TRENCH: 600 x 3 G.P.D. = 1800 GALLONS PER DAY

$1800 / 0.6 = 3000$ ~~G.P.D.~~ / 3' = 1000 ~~G.P.D.~~ FT.

$1000 \times .62 = 620$ LF. \rightarrow SQ. FT.

PIPE @ 4', BOTTOM OF TRENCH @ ~~8'~~ WITH ~~8'~~ OF STONE
BELOW PIPE. \rightarrow 4'

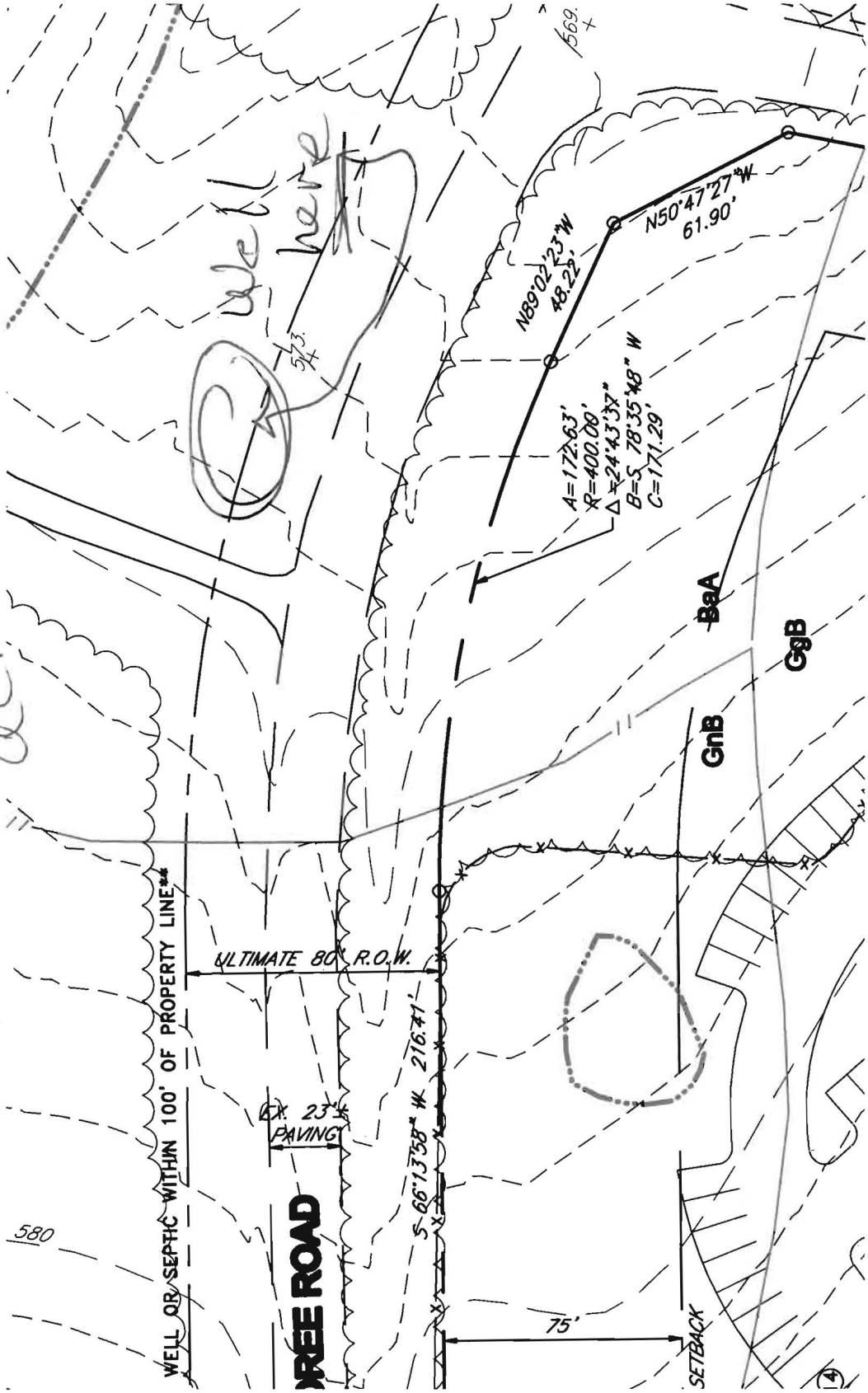
Septic Tank

Pump Tank

—
—
—

—
—
—

Adjoining Property
 across
 McAndrew Rd.



8645 6613 9893

0200

Form 10 No.

FedEx Retrieval Copy

fedex.com 1800.GoFedEx 1800.463.3339

1 From
 Date 1/6/11 Sender's FedEx Account Number 2480-5361-5
 Sender's Name RIKIK RICHARDSON Phone 410 560 1502
 Company RICHARDSON ENGINEERING, LLC
 Address 30 EAST PADONIA ROAD SUITE 500 Dept./Floor/Suite/Room
 City TIMONIUM State MD ZIP 21093

2 Your Internal Billing Reference 10100 HOBBS ROAD

3 To
 Recipient's Name HOWARD COUNTY HEALTH DEPT Phone 410 313 2640
 Company HOWARD COUNTY HEALTH DEPARTMENT
 Recipient's Address 7178 COLUMBIA GATEWAY DRIVE Dept./Floor/Suite/Room
 We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address
 To request a package be held at a specific FedEx location, print FedEx address here.
 City COLUMBIA State MD ZIP 21046



8645 6613 9893

4a Express Package Service Packages up to 150 lbs.¹

1 FedEx Priority Overnight Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

5 FedEx Standard Overnight Next business afternoon.* Saturday Delivery NOT available.

6 FedEx First Overnight Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.

3 FedEx 2Day Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

20 FedEx Express Saver Third business day.* Saturday Delivery NOT available.

* To most locations.

4b Express Freight Service Packages over 150 lbs.

7 FedEx 1Day Freight* Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

8 FedEx 2Day Freight Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

83 FedEx 3Day Freight Third business day.** Saturday Delivery NOT available.

* Call for Confirmation. ** To most locations.

5 Packaging

6 FedEx Envelope* 2 FedEx Pak* Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.

3 FedEx Box 4 FedEx Tube 1 Other

* Declared value limit \$500.

6 Special Handling

3 SATURDAY Delivery Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.

1 HOLD Weekday at FedEx Location Include FedEx address in Section 3.

31 HOLD Saturday at FedEx Location Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods? One box must be checked.

No 4 Yes As per attached Shipper's Declaration. Yes Shipper's Declaration not required.

6 Dry Ice Dry Ice, 3, UN 1845 Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

7 Payment Bill to: Enter FedEx Acct. No. or Credit Card No. below. Obtain Recip. Acct. No.

1 Sender Acct. No. in Section 1 will be billed.

2 Recipient 3 Third Party 4 Credit Card 5 Cash/Check

Total Packages 1 Total Weight LTR

Your liability is limited to \$100 unless you declare a higher value. See the current FedEx Service Guide for details. Credit Card Auth.

8 Residential Delivery Signature Options If you require a signature, check Direct or Indirect.

No Signature Required Package may be left without obtaining a signature for delivery.

10 Direct Signature Someone at recipient's address may sign for delivery. Fee applies.

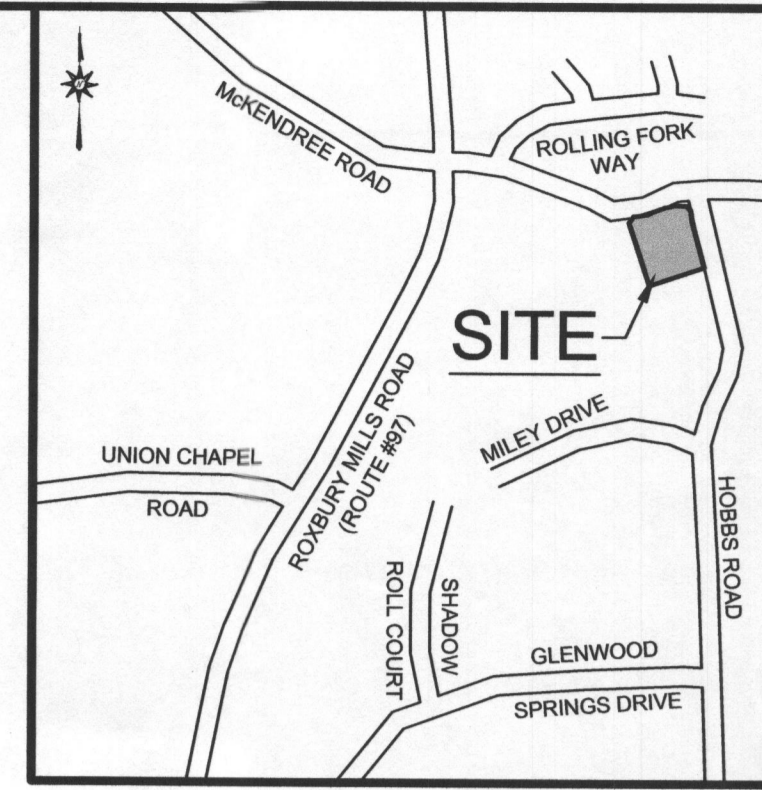
34 Indirect Signature If no one is available at recipient's address, someone at a neighboring address may sign for delivery. Fee applies.

520

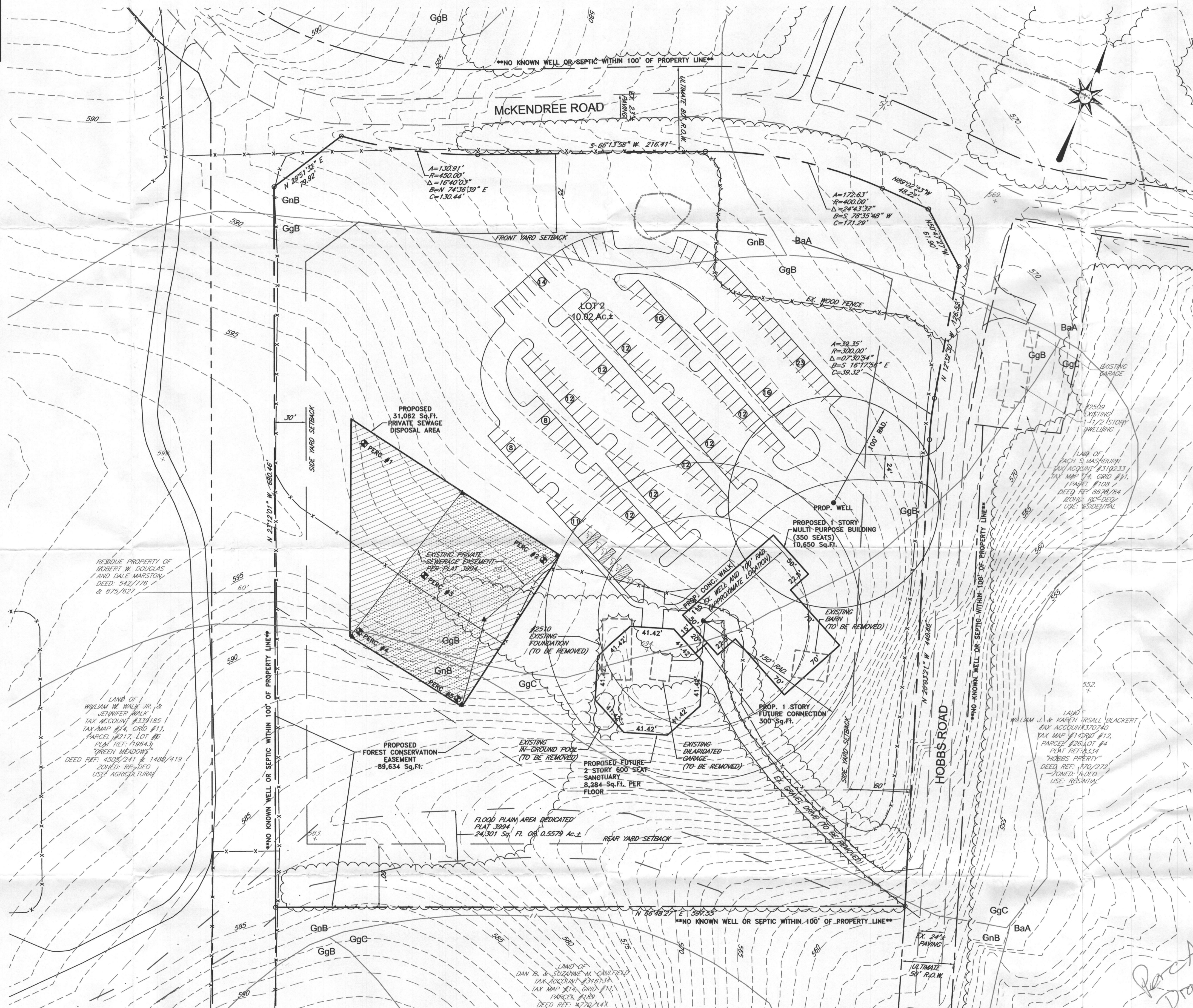
fedex.com 1800.GoFedEx 1800.463.3339

HOWARD COUNTY CONTROL POINTS

NO.	NORTHING	EASTING	ELEV.
14E1	596,213.62	1,301,991.89	
14FB	595,657.26	1,306,552.16	



LOCATION MAP
SCALE: 1" = 2000'



THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL AREA OF AT LEAST 10,000 sq.ft. AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED. THIS SEWAGE DISPOSAL AREA SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE EASEMENT RECORDATION OF A REVISED SEWAGE EASEMENT SHALL NOT BE NECESSARY.

GENERAL NOTES:

1. THE EXISTING STRUCTURES ON THE SITE ARE TO BE REMOVED.
2. THE PROPERTY SHOWN HEREON IS BASED ON RECORDED PLAT ENTITLED "GREEN MEADOWS" DRAWN BY TYDINGS-OHEIM ASSOC., INC. DATED NOVEMBER, 1977.
3. TOPOGRAPHY SHOWN IS AT ONE FOOT INTERVALS.
4. ALL KNOWN EXISTING WELLS AND SEPTIC SYSTEMS WITHIN 100' OF THE PROPERTY LINE HAVE BEEN SHOWN ON THE PLAN.
5. ▲ DENOTES PREVIOUS PERC TEST FROM PLAT 3994.

DATE	NO.	REVISION

OWNER/DEVELOPER OWNER: GLEN ALAN MULLINX & SHERRI LYNN RANDOLPH MULLINX
2534 MCKENZIE ROAD
ELLCOTT CITY, MD. 21042-1709

DEVELOPER: CHIN BAPTIST MISSION CHURCH
6709 SANDPIPER COURT
FREDERICK, MD. 21703
Attn: ZO TUM HMUNG PH: 240-626-7389

PROJECT:
CHIN BAPTIST MISSION CHURCH
2510 HOBBS ROAD

TITLE
SITE PLAN
Richardson Engineering, LLC

30 East Paton Road, Suite 500
Cockeysville, Maryland 21093
Phone: 410-560-1502 Fax: 443-901-1208

ADDRESS CHART	
LOT/PARCEL#	STREET ADDRESS
2 / 217	2510 HOBBS ROAD

PERMIT INFORMATION CHIT			
SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL	
GREEN MEADOWS	SECT. 14	LOT #2, PARCEL #217	
PLAT # OR L/P	BLOCK #	ZONING	TAX/ZONING
3994	N/A	RR-DEO	14
			ELECTION DIST
			4TH
			CENSUS TRACT
			6040.02
WATER CODE		SEWER CODE	

APPROVED FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEM

COUNTY HEALTH OFFICER _____ DATE _____

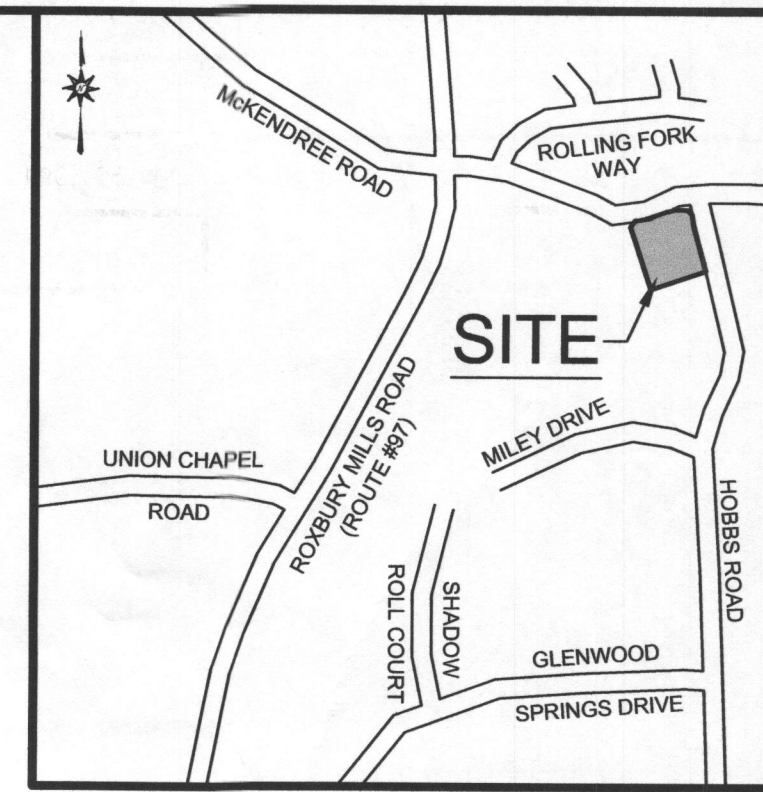
PROPOSED 600 SEAT CHURCH
3' WIDE TRENCH: 600 x 3 G.P.D. = 1800 GALLONS PER DAY
1800/0.8 = 2250 G.P.D./3' = 750 G.P.D./FT.
750 x .62 = 465 LF.
PIPE @ 4" BOTTOM OF TRENCH @ 6' WITH 2' OF STONE BELOW PIPE.

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 16597, Expiration Date: 8/15/11

CHECKED BY: PCR
DESIGNED BY: PCR
DRAWN BY: CND
PROJECT NO.: 10100
DATE: 01-06-11
SCALE: 1" = 50'
DRAWING NO. 1 OF 1

HOWARD COUNTY CONTROL POINTS

NO.	NORTHING	EASTING	ELEV.
14E1	596,213.62	1,301,991.89	
14FB	595,657.26	1,306,552.16	



LOCATION MAP
SCALE: 1" = 200'



THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL AREA OF AT LEAST 10,000 sq.ft. AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED. THIS SEWAGE DISPOSAL AREA SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE EASEMENT RECORDATION OF A REVISED SEWAGE EASEMENT SHALL NOT BE NECESSARY.

GENERAL NOTES:

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2. THE PROPERTY SHOWN HEREON IS BASED ON RECORDED PLAT ENTITLED "GREEN MEADOWS" DRAWN BY TYDINGS-OHEIM ASSOC., INC. DATED NOVEMBER, 1977.
3. TOPOGRAPHY SHOWN IS AT ONE FOOT INTERVALS.
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5. ▲ DENOTES PREVIOUS PERC TEST FROM PLAT 3994.

DATE	NO.	REVISION
OWNER/DEVELOPER		
OWNER: GLEN ALAN MULLINIX & SHERRI LYNN RANDOLPH MULLINIX 2534 MCKENZIE ROAD ELLICOTT CITY, MD. 21042-1709		
DEVELOPER: CHIN BAPTIST MISSION CHURCH 6709 SANDPIPER COURT FREDERICK, MD. 21703 Attn: ZO TUM HUNG PH: 240-626-7389		

PROJECT:
CHIN BAPTIST MISSION CHURCH
2510 HOBBES ROAD

TITLE: *Superceded* SITE PLAN
Richardson Engineering, LLC

30 East Padonia Road, Suite 500
Cockeysville, Maryland 21093
Phone: 410-560-1502 Fax: 443-901-1208

	CHECKED BY: PCR
	DESIGNED BY: PCR
	DRAWN BY: CND
	PROJECT NO.: 10100
	DATE: 01-24-11
	SCALE: 1" = 50'
	DRAWING NO. 1 OF 1

ADDRESS CHART	
LOT/PARCEL#	STREET ADDRESS
2 / 217	2510 HOBBES ROAD

PERMIT INFORMATION CHART	
SUBDIVISION NAME	SECTION/AREA
GREEN MEADOWS	SECT. 14, AREA 4TH
PLAT # OR L/P	TAX/ZONING MAP
3994	14
WATER CODE	SEWER CODE
	6040.02

PROPOSED 600 SEAT CHURCH
3' WIDE TRENCH: 600 x 3 G.P.D. = 1800 GALLONS PER DAY
1800/0.8 = 2250 G.P.D./3' = 750 G.P.D./FT.
750 x .62 = 465 LF.
PIPE @ 4", BOTTOM OF TRENCH @ 6' WITH 2' OF STONE BELOW PIPE.

PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NUMBER 16597, EXPIRATION DATE: 08-15-2011

APPROVED FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEM
COUNTY HEALTH OFFICER _____ DATE _____

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