

# APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) \_\_\_\_\_ TEST TIME \_\_\_\_\_

AP 520449-F

AGENCY REVIEW: \_\_\_\_\_

DATE 6/29/04

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
- REPLACE AN EXISTING STRUCTURE

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 unknown 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) Carlton E. Heyser, JR.

DAYTIME PHONE \_\_\_\_\_ CELL \_\_\_\_\_ FAX \_\_\_\_\_

MAILING ADDRESS 14526 New Hampshire Ave. Silver Spring, Md. 20904  
STREET CITY/TOWN STATE ZIP

APPLICANT Highland Development Corp. Attn: Richard Demmitt

DAYTIME PHONE 410 531 5539 CELL \_\_\_\_\_ FAX \_\_\_\_\_

MAILING ADDRESS PO Box 228 Clarksville, Md. 21029  
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION  
SUBDIVISION/PROPERTY NAME S. of Scaggsville Rd. (Rt. 216), E. of Browns Bridge Rd. LOT NO. 7

PROPERTY ADDRESS \_\_\_\_\_  
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 40 GRID 18 PARCEL(S) 178 PROPOSED LOT SIZE 49,777 SF

AS APPLICANT, I UNDERSTAND THE FOLLOWING: THE SYSTEM INSTALLED SUBSEQUENT TO THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS APPLICATION IS COMPLETE WHEN ALL APPLICABLE FEES AND A SUITABLE SITE PLAN HAVE BEEN RECEIVED. I ACCEPT THE RESPONSIBILITY FOR COMPLIANCE WITH ALL M.O.S.H.A. AND "MISS UTILITY" REQUIREMENTS. APPROVAL IS BASED UPON SATISFACTORY REVIEW OF A PERC CERTIFICATION PLAN. TEST RESULTS WILL BE MAILED TO APPLICANT.

Richard Demmitt  
SIGNATURE OF APPLICANT

HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM  
3525-H ELLICOTT MILLS DRIVE, ELLICOTT CITY, MARYLAND 21043-4544 (410) 313-1771 FAX (410) 313-2648  
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH

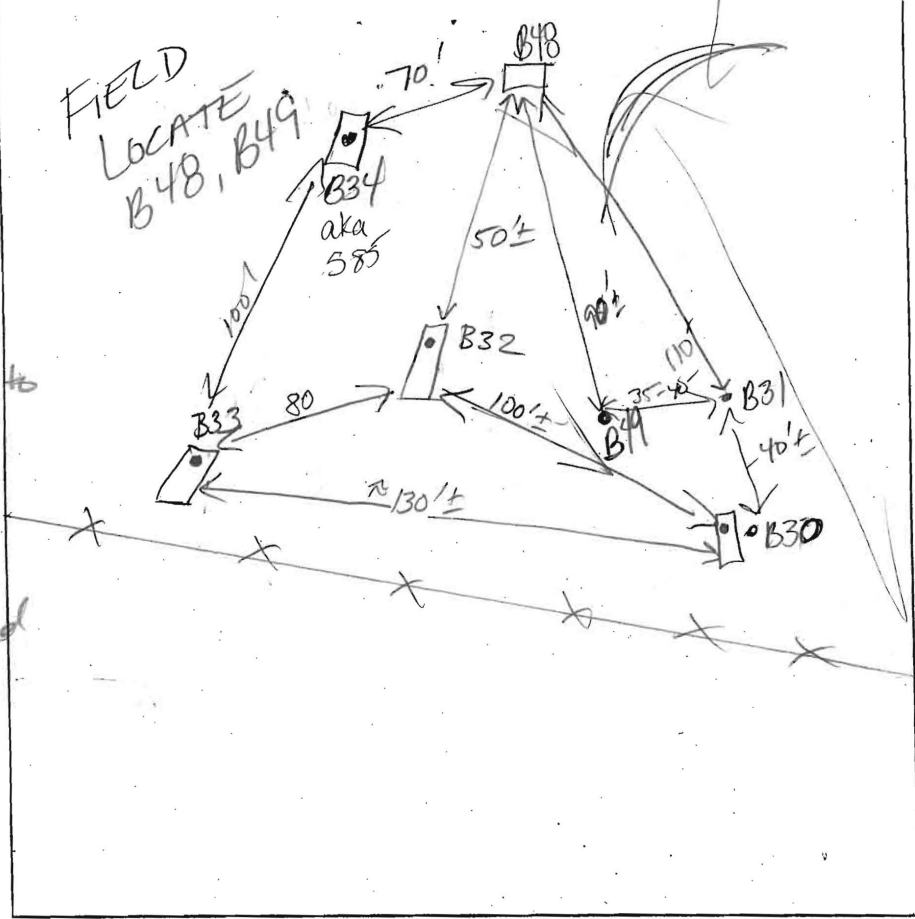
583  
Strong red  
SL w/ clay in  
root channels  
V. micac.  
Densely  
Compacted  
5' 4 1/2 to 5' 1/2 to  
yellow  
5y colors  
8 values  
L Sand  
med q.  
V. micac.  
well drained  
12' 8"

Trace Rock

B30  
RED SL-L  
30 platy struct  
sm. frags  
Qtz lense  
3'  
org SL

Trace Rock  
No water  
Bottom 1/3

B30/B31  
Fails  
Cave-in  
@ 8 1/2  
slow  
at 3' 10"



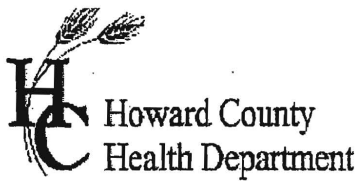
B48  
Strong  
rd SL-L  
org wk rd  
L  
H brn  
org  
Mgt. S  
? wk org  
f sand  
qtz peccet  
@ 11'  
H2O  
moist soil

B49  
red  
platy  
SL-L  
micaceous  
few qtz  
stones  
tan  
dry brn  
at brn  
Trace  
drained Kv  
10' Mottles Not present due to texture  
12' Bottom

| DATE   | TEST #  | DEPTH              | START | BREAK 1' DROP | STOP 2' DROP | TIME OF 2ND INCH | P/F/H |   |
|--------|---------|--------------------|-------|---------------|--------------|------------------|-------|---|
| 8/2/04 | 583     | 4' 8"              | 8:54  | 8:58          | 9:04         | 6                | OKP   |   |
|        | B32     | 3' 7"              | 2:25  | 2:30          | 2:34         | 4                | Pok   |   |
|        | B30/B31 | 3' 10"             | 2:34  | 2:40          |              |                  | F     |   |
|        |         | cave-in @ 8 1/2    |       |               |              |                  |       |   |
|        | B48     | Visual due to time |       |               |              |                  |       | P |
|        |         | well perc @ 4 1/2  |       |               |              |                  |       |   |
|        |         | Tx from 5-10       |       |               |              |                  |       |   |
|        | B49     | well perc @ 3 1/2  |       |               |              |                  |       | P |
|        |         | 4' Tx zone exists  |       |               |              |                  |       |   |

REMARKS B49, B48 Not per plan Holes dug on Stake  
 SANITARIAN Kaele BACKHOE Sharp OTHERS R. Demitt  
 TEST HOLES USED IN SDA \_\_\_\_\_ AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_  
 TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE SW \_\_\_\_\_

Shallow System  
Bottom of trench ≤ 5'



# APPLICATION

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AP 520449-6

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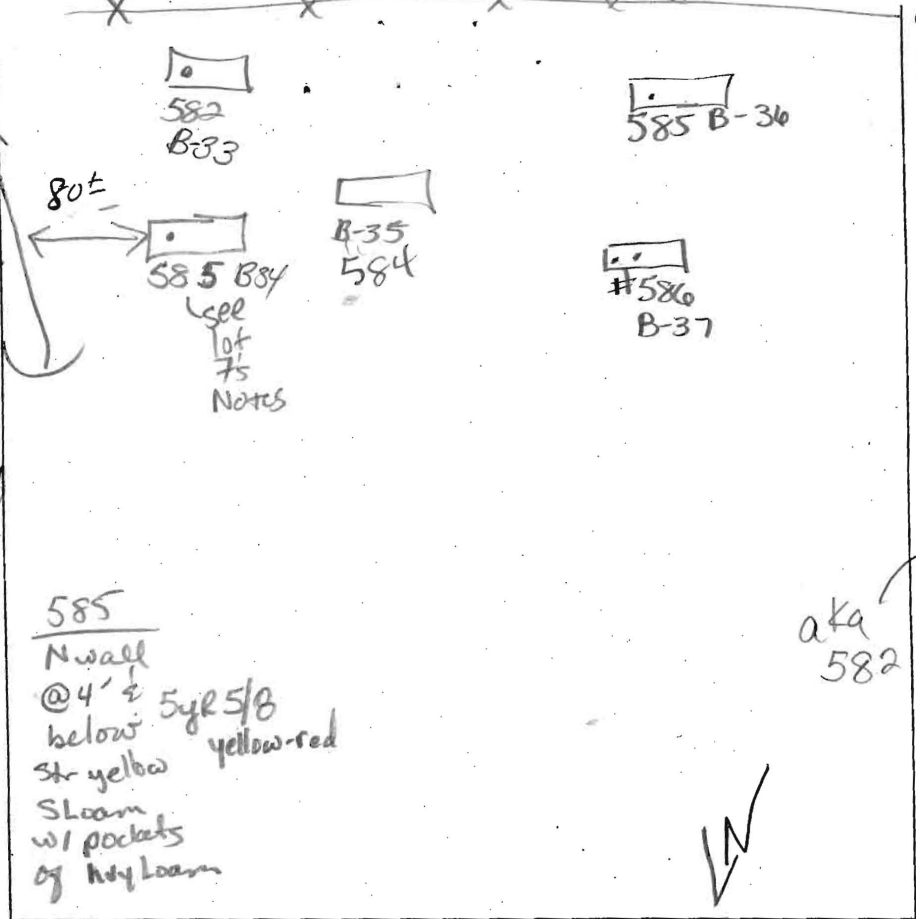
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586 B-37  
 Dense red  
 SIL-sill  
 10R 4 1/6  
 4 1/8  
 4 1/2  
 5 3"  
 Brownish yellow med gr. SAND well drained  
 Trace Rock  
 Bottom 13'

585  
 fine gr. silty  
 frag 210%  
 in 7.5YR 5/8  
 (str brn)  
 26"  
 SLoom - N side  
 S side - ribbon  
 1 1/2" huyL  
 SIL w/ high sand content  
 yellow sand fine med gr sand  
 12 1/2'



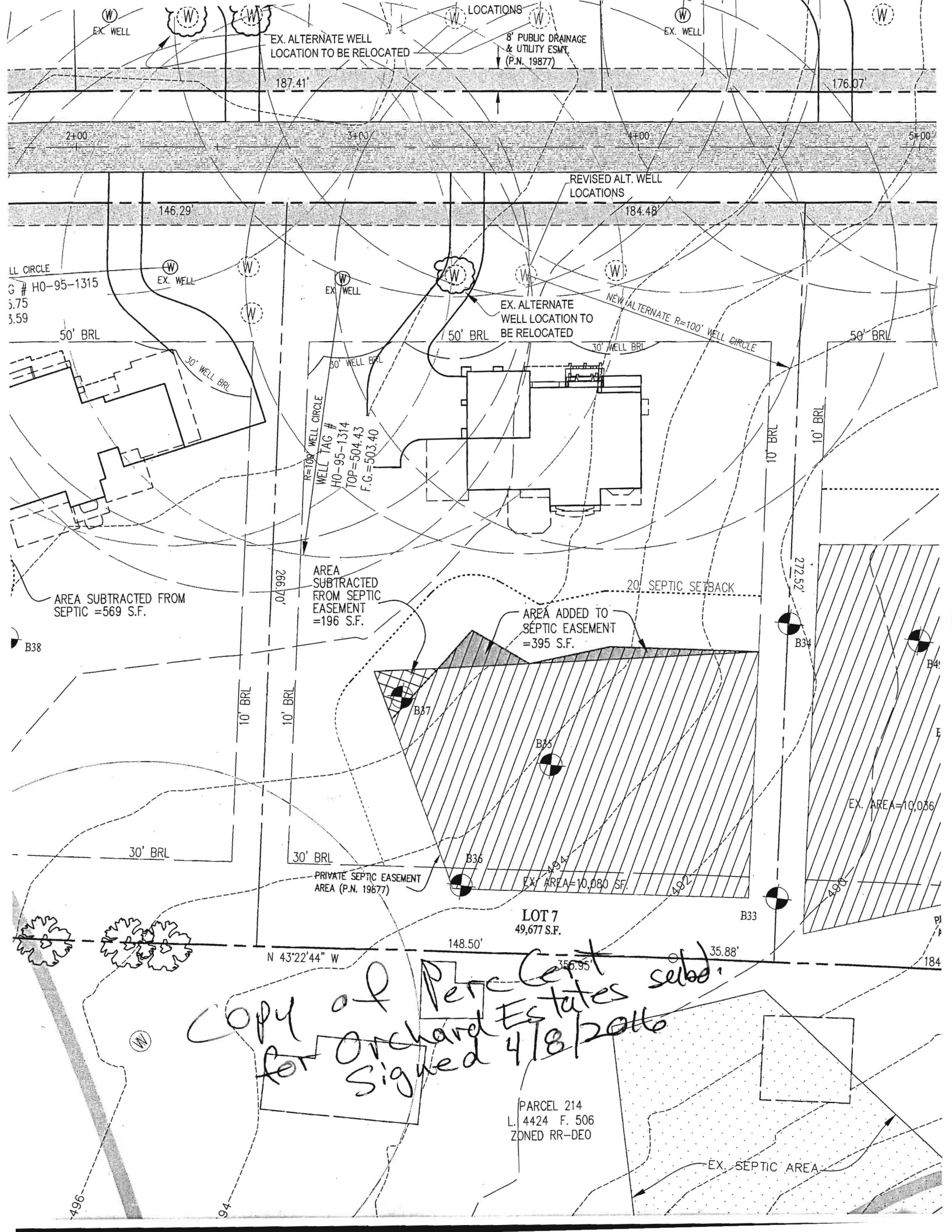
aka B35  
 584 middle row  
 Dense red CLL  
 3  
 org densely SILm packed  
 5'  
 wk yellow tan  
 2.5Y 8/6  
 2.5Y 8/3  
 8/1  
 Somewhat moist  
 10' Bottom yet well drain

aka B33  
 Red sil-huyL Dense  
 3'  
 wk org brn yellow SAND  
 w/ pockets of SL well dr soil moist @ 10' Bottom 10 1/2"

| DATE                                   | TEST #  | DEPTH     | START | BREAK 1" DROP      | STOP 2" DROP       | TIME OF 2ND INCH | P/F/H |
|--|---------|-----------|-------|--------------------|--------------------|------------------|-------|
| 8/2/04                                 | 586     | 4' 2"     | 8:25  | 8:44               | too slow           |                  | P     |
|  | aka B37 | 7 1/2' TX | 8:25  | 8:28 <sup>25</sup> | 8:30 <sup>40</sup> | 2+               | OK    |
|  | aka B34 | 5' S      | 8:28  | 8:29 <sup>41</sup> | 8:35               | ≈ 5              | OK P  |
|  | aka B33 | 4' S      | 8:45  | 8:50               | 8:56               | ≈ 5+             | P     |
|  | aka B35 | 4' 3"     | 9:00  | 9:06               | 9:14               | 8                | OK P  |
| 586 will move @ 4 1/2" if need to keep |         |           |       |                    |                    |                  |       |

REMARKS post hole digger size holes dug on stake  
 SANITARIAN \_\_\_\_\_ BACKHOE \_\_\_\_\_ OTHERS \_\_\_\_\_  
 TEST HOLES USED IN SDA \_\_\_\_\_ AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_  
 TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE SW \_\_\_\_\_

Keep syst. shallow -



EX. ALTERNATE WELL LOCATION TO BE RELOCATED

8' PUBLIC DRAINAGE & UTILITY ESMT. (P.N. 19877)

187.41'

176.07'

21.00' 34.00' 47.00' 54.00'

REVISED ALT. WELL LOCATIONS

146.29'

184.48'

LL. CIRCLE  
G # H0-95-1315  
5.75  
3.59

EX. WELL

EX. WELL

EX. ALTERNATE WELL LOCATION TO BE RELOCATED

NEW ALTERNATE R=100' WELL CIRCLE

50' BRL

30' WELL BRL

50' WELL BRL

50' BRL

30' WELL BRL

50' BRL

R=100' WELL CIRCLE  
WELL TAG #  
H0-95-1314  
TOP=504.43  
F.G.=503.40

AREA SUBTRACTED FROM SEPTIC =569 S.F.

AREA SUBTRACTED FROM SEPTIC EASEMENT =196 S.F.

AREA ADDED TO SEPTIC EASEMENT =395 S.F.

20' SEPTIC SETBACK

B38

B34

B4

EX. AREA=10,086

30' BRL

10' BRL

10' BRL

30' BRL

PRIVATE SEPTIC EASEMENT AREA (P.N. 19877)

EX. AREA=10,080 S.F.

B33

LOT 7  
49,677 S.F.

148.50'

35.88'

N 43°22'44" W

*Copy of Percent Estates subd.  
for Orchard Estates  
Signed 4/8/2016*

PARCEL 214  
L. 4424 F. 506  
ZONED RR-DEO

EX. SEPTIC AREA

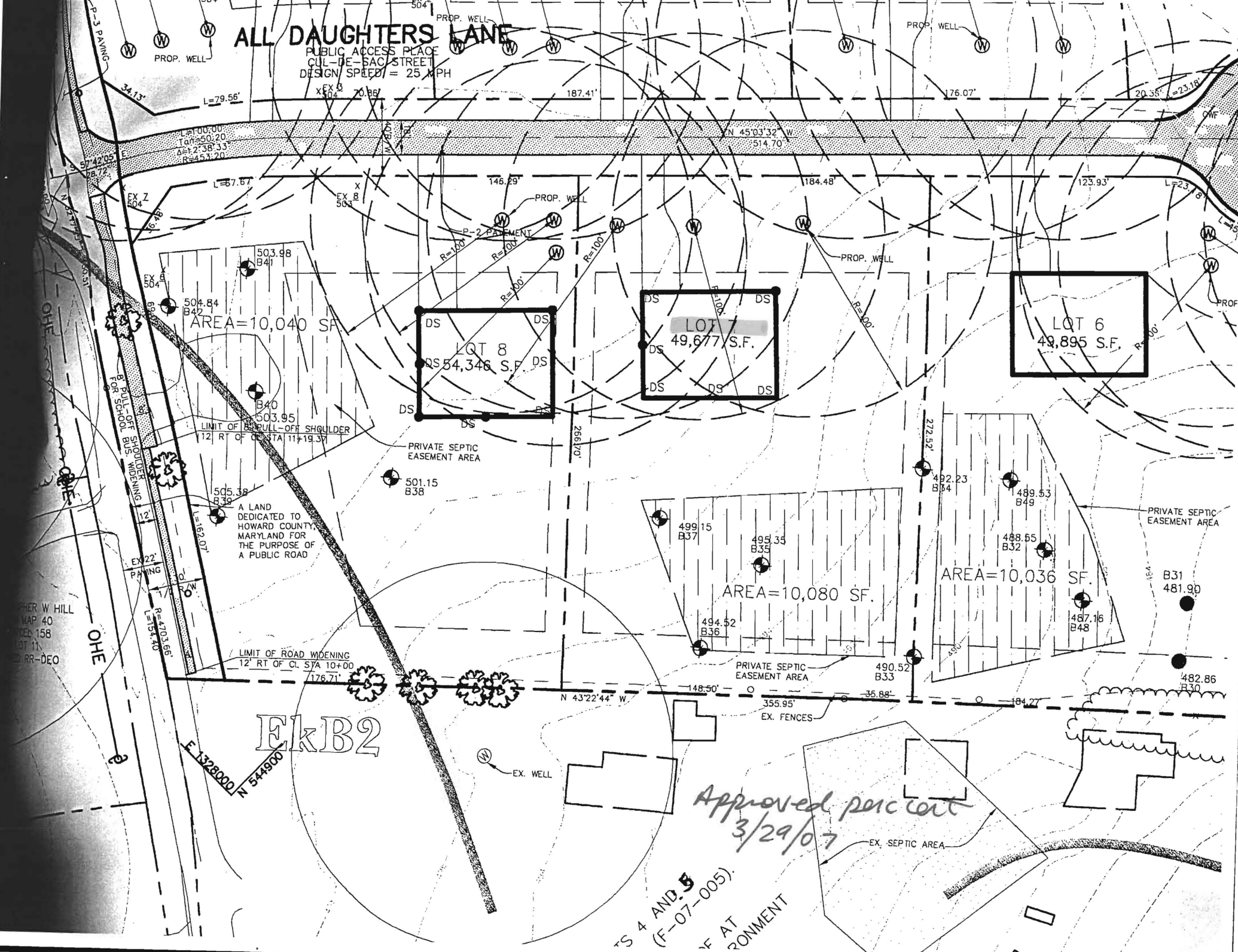
496

94

184

# ALL DAUGHTERS LANE

PUBLIC ACCESS PLACE  
CUL-DE-SAC STREET  
DESIGN SPEED = 25 MPH



AREA=10,040 SF

LOT 8  
54,346 S.F.

LOT 7  
49,677 S.F.

LOT 6  
48,895 S.F.

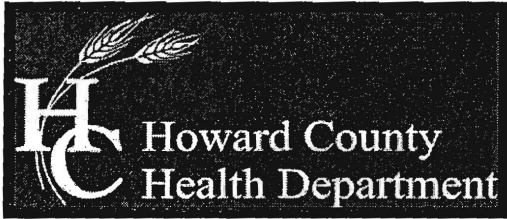
AREA=10,080 SF

AREA=10,036 SF

EKB2

Approved per cert  
3/29/07

TS 4 AND 5  
(F-07-005)  
OF AT RONMENT



Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

Main: 410-313-2640 | Fax: 410-313-2648

TDD 410-313-2323 | Toll Free 1-866-313-6300

www.hchealth.org

Facebook: www.facebook.com/hocohealth

Twitter: HowardCoHealthDep

Maura J. Rossman, M.D., Health Officer

SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

Address: \_\_\_\_\_

Subdivision: Orchard Estates Lot: 7

Initial system: Application rate: 0.8 Effective area beginning depth: 5 Bottom maximum depth: 6

1st Replacement: Application rate: 0.8 Effective area beginning depth: 5 Bottom maximum depth: 6

2nd Replacement: Application rate: 0.8 Effective area beginning depth: 5 Bottom maximum depth: 6

Design Flow = 150 gallons per day per bedroom

Design flow ÷ application rate = square footage of drainfield required

Linear length of trench required = drainfield square footage x sidewall reduction percentage ÷ trench width

Sidewall reduction credit formula:

$\frac{W + 2}{W + 1 + 2D} \times 100 =$  Percent of length of standard trench where W=trench width and D= depth between effective area beginning depth and trench bottom.

Standard design requirements:

- All trenches must be equal length unless low pressure dosed
- All trenches must be on contour
- Minimum trench spacing: 10' for all trenches utilizing sidewall reduction credit. Additional spacing may be necessary for any trench using over 3.5' of effective sidewall. In those cases, the spacing formula is 2D +W up to a maximum spacing of 18'.
- Minimum trench spacing for trenches with no sidewall credit (bottom area only) is 6' for a 2' wide trench and 9' for a 3' wide trench (spacing is measured edge to edge)
- Maximum trench length is 100'
- Maximum pipe depth is 4'

Additional requirements:

Approved: [Signature] Date: 12/8/15