

LAYOUT 8/19/03 Noon INSP 4 _____
 INSP 2 8/28/03 10AM INSP 5 _____
 INSP 3 _____ INSP 6 _____

ISSUE DATE: 6/2/2003 P 518991

APPROVAL DATE: 10/7/03 A 517414

PERMIT

INDEXED Tax ID 05-347157

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

~~Hy and Lowe~~ Hatfields ^{- not found -} IS PERMITTED TO INSTALL ALTER

ADDRESS: 7000 Warfield Road, Gaithersburg PHONE NUMBER: 301-926-5924

SUBDIVISION: Coyne Property LOT NUMBER: 1

ADDRESS: 13454 Clarksville Pike PROPERTY OWNER: Steven Pelham

SEPTIC TANK CAPACITY (GALLONS): 1250 OUTLET BAFFLE FILTER REQUIRED

PUMP CHAMBER CAPACITY (GALLONS): 1250 COMPARTMENTED TANK REQUIRED ^{3' wide}

NUMBER OF BEDROOMS: 4 ^{Inlet 5', Bottom 7'}

SQUARE FEET PER BEDROOM: 180 ^{2 Trenches}

LINEAR FEET OF TRENCH REQUIRED: 180+ ^{Minimum 180' Total}
 HOUSE SERVED BY PUBLIC WATER ^{10' center to center}

TRENCHES:	Trench to be 3.0 feet wide. Inlet 3.0 feet below original grade. Bottom maximum depth 6.0 feet below original grade. Effective area begins at 2.0 feet below original grade. 3.0 feet of stone below distribution pipe.
LOCATION:	Place the distribution box as shown on the building permit plan. Run trenches on contour towards the left lot line.
NOTES:	Maintain 100 feet separation between the well and trenches. Pump tank to be installed but initial two systems will be gravity. Trenches must be cut off at the edges of the new SDA.

PLANS APPROVED: Brian Baker OK KN DATE: 11/14/2002

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

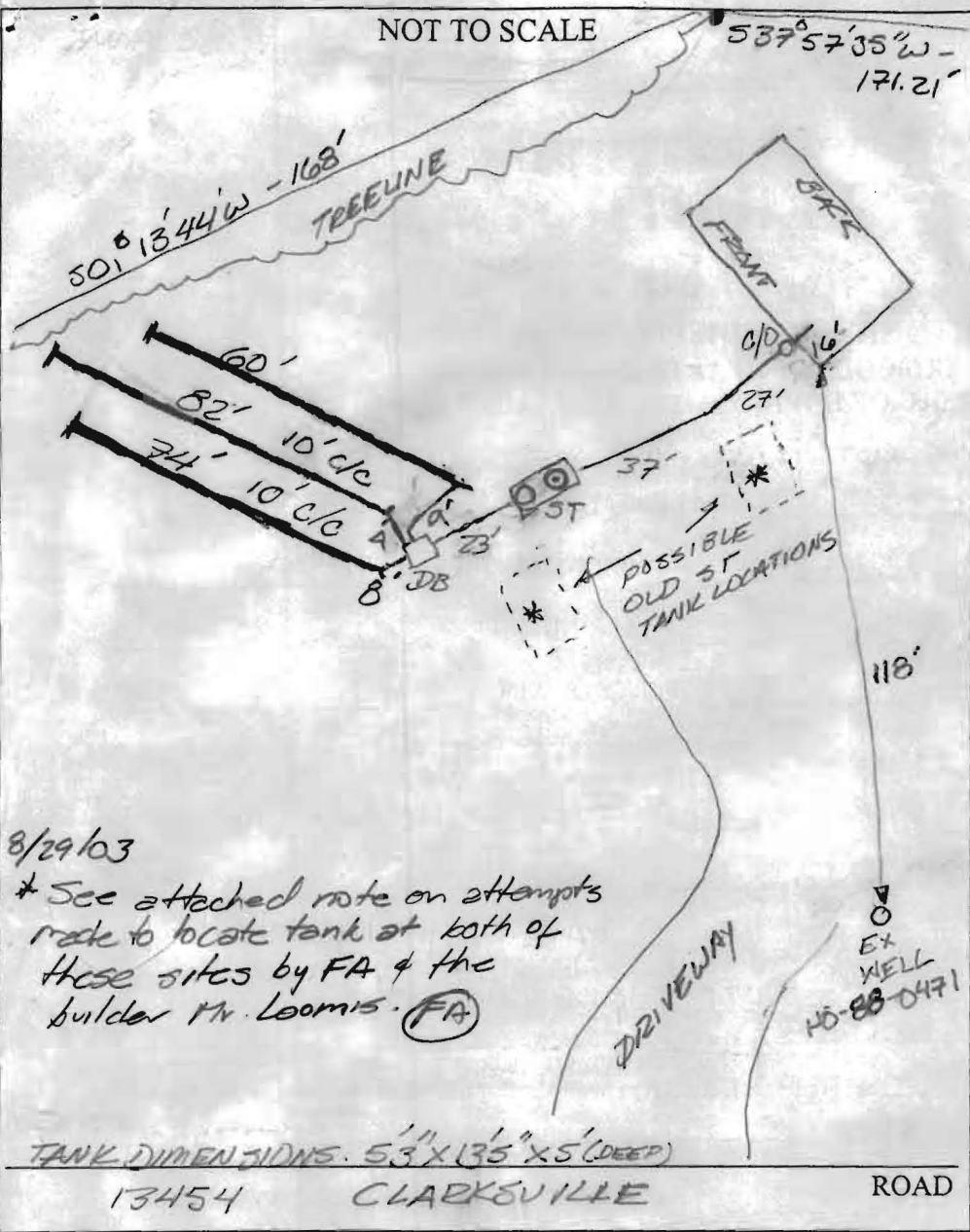
NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM
 PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT
 ALL 410-313-2640 FOR INSPECTION OF SEPTIC SYSTEM

**BUILDING PERMIT SIGNED
 AND RETURNED**

10/7/03 B00143891 UG PROPANE TANK

A517414

NOT TO SCALE



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	5'	7'
NUMBER OF TRENCHES		3
TOTAL LENGTH		216
ABSORPTION AREA		42
DISTRIBUTION BOX LEVEL		YES
DISTRIBUTION BOX BAFFLE		YES
DISTRIBUTION BOX PORT		NO

SEPTIC TANK DATA		
SEPTIC TANK 1 LEVEL		YES
COMPARTMENTED	CAPACITY	1500 GAL
SEAM LOC		TOP
TANK LID DEPTH		3'
BAFFLES		YES (IN & OUT)
BAFFLE FILTER		N/A
MANHOLE LOC		END
6" PORT LOC		YES (IN)
WATERTIGHT TEST		NA
SEPTIC TANK 2 LEVEL		NA
CAPACITY		↑ GAL
SEAM LOC		↓
TANK LID DEPTH		↓
BAFFLES		↓
BAFFLE FILTER		↓
MANHOLE LOC		↓
6" PORT LOC		↓
WATERTIGHT TEST		↓

8/29/03

* See attached note on attempts made to locate tank at both of these sites by FA & the builder Mr. Loomis. (FA)

TANK DIMENSIONS: 5'3" X 13'5" X 5' (DEEP)
13454 CLARKSVILLE ROAD

PRE-CONSTRUCTION 8/19/03 O.K. to change trench inlet depth to 5'

Cannot install at proposed 3' depth without pump. If

INSTALLATION trench depth deeper than 5' where proposed distribution box is then pumped system required. Waiting on wall check which owner supposed to provide. If possible the existing septic tank should be crushed and filled (BB)

8/28/03 According to Kenny Jr (Hatfield) old tank was skinned Told Donny that BB wants ST w/ 2 compartments. Now wall check provided at time of this inspection. Old septic tank to be found & filled before w/o issued O.K. to cover trenches tank & DB. (FA)

10/7/03 System satisfactory. A pumped system will have to

FINAL INSPECTOR B. Baker DATE OF APPROVAL 10/7/03

be installed some time in the future. (BB)

	EMP#	DATE
FIELD	1011	8/19/03
COMP	10	8/20/03
INCS	10	8/23/03
CHECKED	32	8/23/03

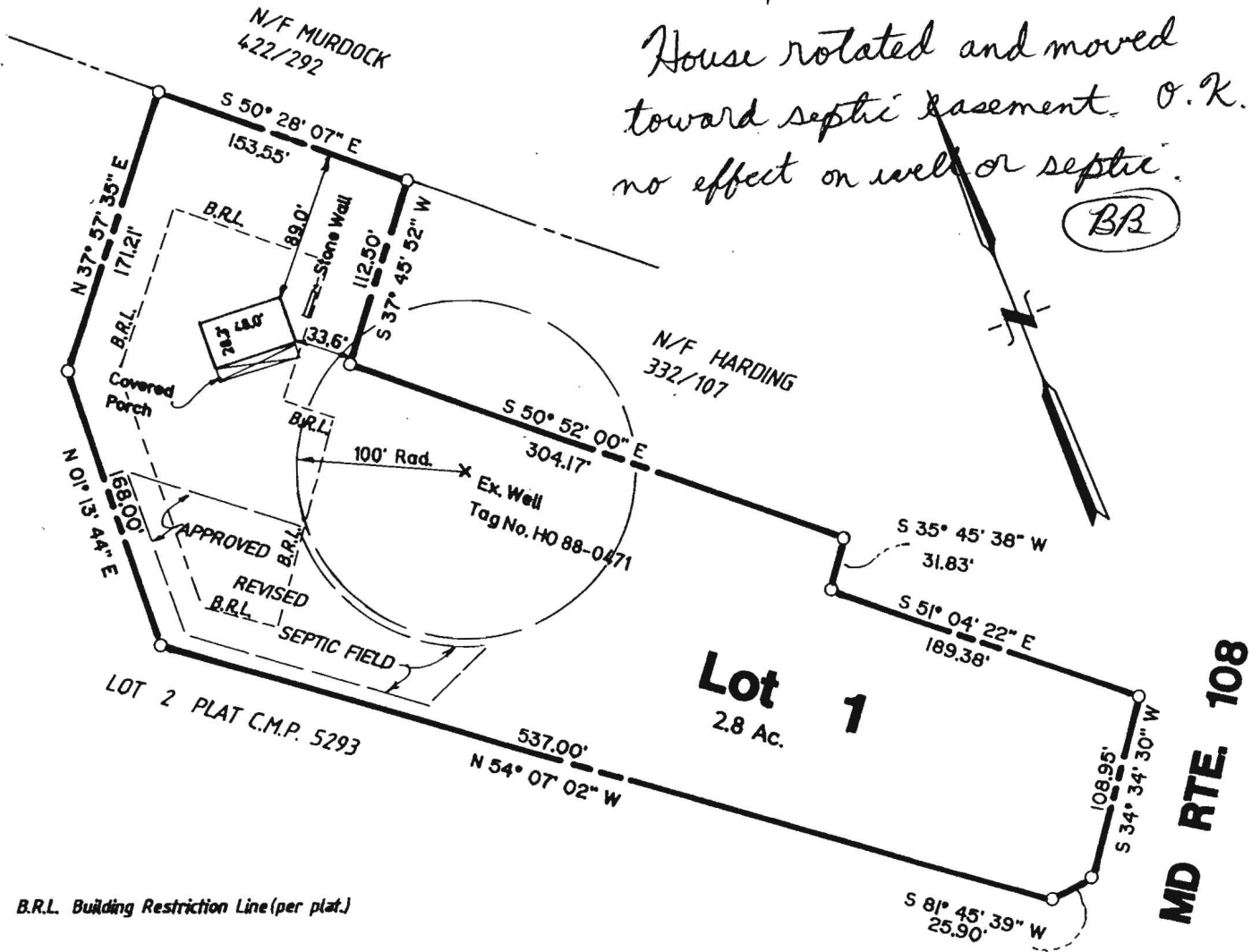
STREET ADDRESS: 13454 Clarksville Pike
 REVISIONS: Added Floor Elev. & Tag Number for well.

BUILDING PERMIT NUMBER: B 00138727

10/7/03

House rotated and moved toward septic basement. O.K. no effect on well or septic.

BB



B.R.L. Building Restriction Line (per plat.)

NOTE:

First Floor Elevation = 512.00

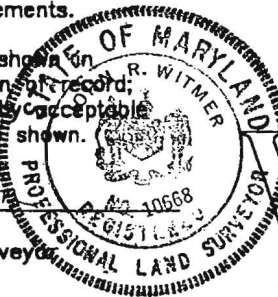
SURVEYOR'S CERTIFICATE

This survey has been completed to satisfy requirements of a transfer, a financing or a refinancing of the subject site; it does not reflect a boundary survey to be relied upon for the accurate location of property lines, construction of fences or other improvements.

I hereby certify that the property indicated hereon is shown in accordance with the Subdivision Plat and/or description of record; that the improvements, as shown, have been located by acceptable survey practices; and that all visible improvements are shown.

8/19/03 (Wall Check)
 Date

John R. Witmer
 JOHN R. WITMER
 Professional Land Surveyor
 MD. No 10668



WALL CHECK
FINAL LOCATION PLAT
LOT 1
COYNE PROPERTY

PLAT C.M.P. 5293
 HOWARD COUNTY, MARYLAND
 SCALE: 1" = 100' AUGUST, 2003

WITMER ASSOCIATES, LLC
 LAND SURVEYING - LAND PLANNING & DESIGN

354-A Hungerford Drive, Rockville, MD 20850
 Tel: (301) 309-8600 Fax (301) 309-8603

Tolerance for measurements indicated hereon = 0.25' +/-

15-Nov-02
Revised

Pelham House
13454 Clarksville Pike
Highland, MD 20777
Coyne Property Lot 1

Owner: Steven Pelham
9436 Wandering Way
Columbia, MD 21045
(301) 452-1473

**Single Family Detached Dwelling
4 bedrooms**

Topography data based on
Topographic Composite Map
of Howard County, Map #201,
Produced 1998

Final elevations and topography
subject to on site verification
Gradings to meet code requirements

Materials	Invert Elevation Information	
<ul style="list-style-type: none"> - 4" dia sewer exits from house - all sewer pipe 4" dia ASTM-D 2665 or 1785, equal or better quality - 1,250 gal septic tank w/ riser tank approx 10' x 5' nominal - Approved pump pit per code pump pit approx 10' x 5' nominal - Approved distribution box per code - Absorption trenches per code 	Basement Elevation (F.F. ht, approx)	502.0'
	(Injector/sump pump to sewer pipe exit)	
	First Floor Elevation (F.F. ht, approx)	512.5'
	Approx ground elevation @ Sewer pipe exit	512.0'
	A Sewer pipe exits house	510.5' I.E. (0.4)
	B Sewer pipe enters septic tank (approx 3" drop within tank)	510.1' I.E. (0.3)
	C Sewer pipe exits septic tank	509.8' I.E. (0.7)
	D Sewer pipe enters pump pit (approx 3" drop within pump pit)	509.1' I.E. (0.3)
	E Sewer pipe exits pump pit	508.8' I.E. (0.1)
	F Distribution box outlet Approx ground elevation @ Distribution box	508.7' I.E. 511.5'

13-Nov-02

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 13454 Clarksville Pike
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 Coyne Property Lot 1

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	(Injector/sump pump to sewer pipe exit)	
	First Floor Elevation (F.F. ht, approx)	512.00'
	Approx ground elevation @ Sewer pipe exit	511.00'
	A Sewer pipe exits house	509.65' I.E.
	(10' pipe w/ approx 2" drop @ 1% slope)	(0.10)
	B Sewer pipe enters septic tank	509.55' I.E.
	(approx 3" drop within tank)	(0.25)
	C Sewer pipe exits septic tank	509.30' I.E.
	(5' pipe w/ approx 1/2" drop @ 1% slope)	(0.05)
D Sewer pipe enters pump pit	509.25' I.E.	
(approx 3" drop within pump pit)	(0.25)	
E Sewer pipe exits pump pit	509.00' I.E.	
(50' pipe w/ approx 6" drop @ 1% slope)	(0.50)	
F Distribution box outlet	508.50' I.E.	
Approx ground elevation @ Distribution box	511.00'	

512.5
512.00
510.5
510.1
509.8
509.1
508.8
508.7
511.5

TRENCH DESIGN CALCULATION SHEET

Table A: Linear feet of trench required per bedroom based on perc rate.

Perc Rate	Sq. Ft. of Trench
2-7 min.	180
8-15 min.	210
16-20 min.	240
21-30 min.	300

Table B: Decrease in length of trench based on useable sidewall (effective) of trench.

	2' Wide	3' Wide
1'	.80	.83
1.5'	.66	.71
2'	.57	.62
2.5'	.50	.55
3'	.44	.50
3.5'	.40	.45
4'	.36	.42
4.5'	.33	.38
5'	.31	.36
5.5'	.29	.33
6'	.27	.31
6.5'	.25	.29
7'	.24	.28
7.5'	.22	.26

To calculate length of trench required, multiply the number of bedrooms by the perc rate as shown in Table A. Divide this number by the width of trench you wish to use (either 2' or 3' widths). This number is known as the standard length of trench. Now, if any amount of sidewall or effective material is to be used greater than 6" multiply the standard length of trench by the percent decrease in trench length as provided in Table B. Make sure you use the correct conversion for a 2' or 3' wide design based on the original calculation obtained for the standard length of trench.

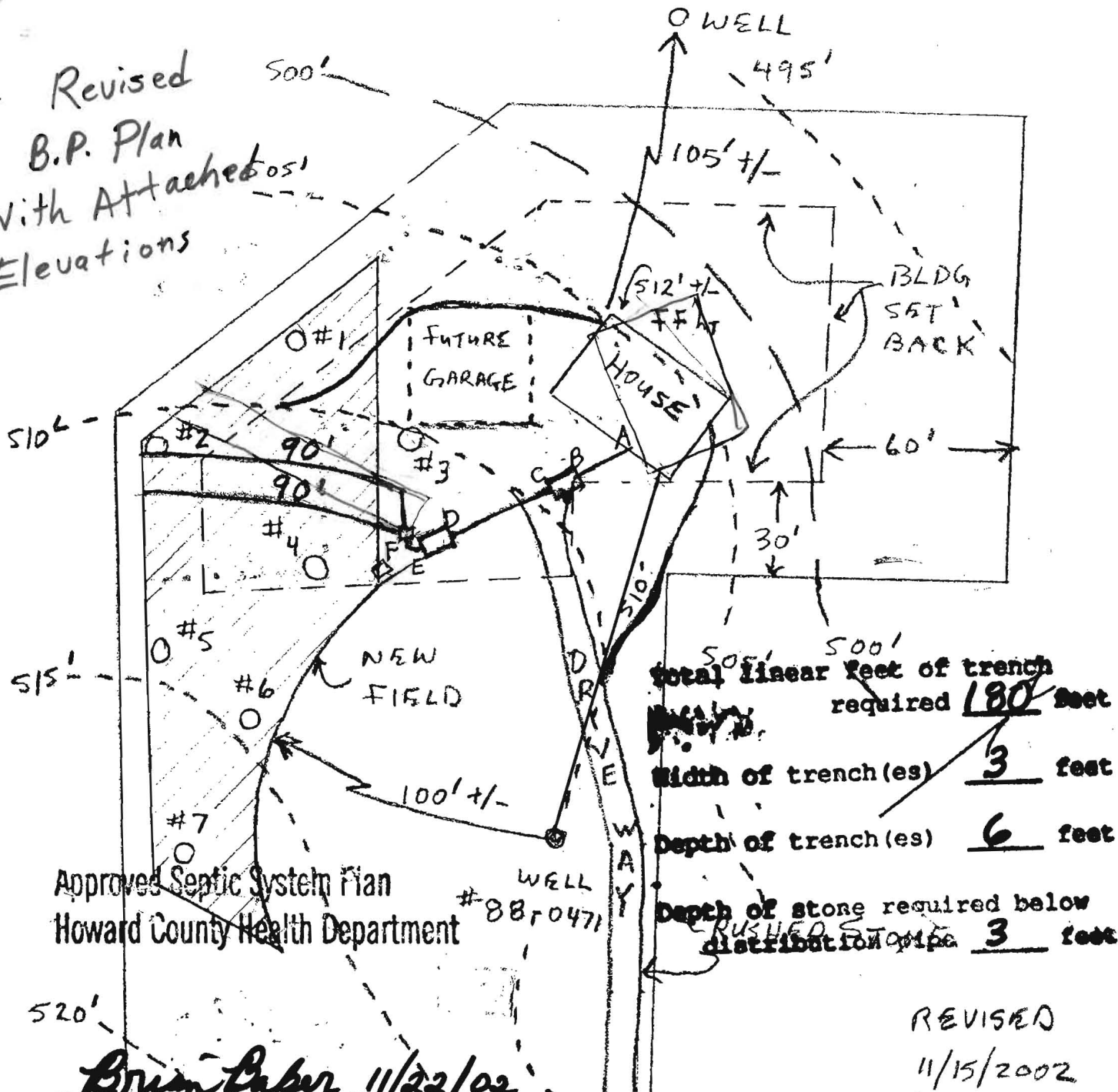
Formula

$(\# \text{ of bedrooms}) \times (\text{sq. ft. of trench}) / (\text{width of trench}) = \text{standard length of trench}$
and if any useable sidewall exists use
 $(\text{standard length of trench}) \times (\text{percent decrease in sidewall}) = \text{linear ft. req'd}$

REMEMBER

The minimum separation should be 6' (edge to edge) for 2' wide trenches and 9' (edge to edge) for 3' wide trenches. When using sidewall calculations for deep trench design, the minimum edge to edge separation should be no less than twice the depth of gravel plus the width and no further apart than 18' edge to edge.

Revised
B.P. Plan
With Attached
Elevations

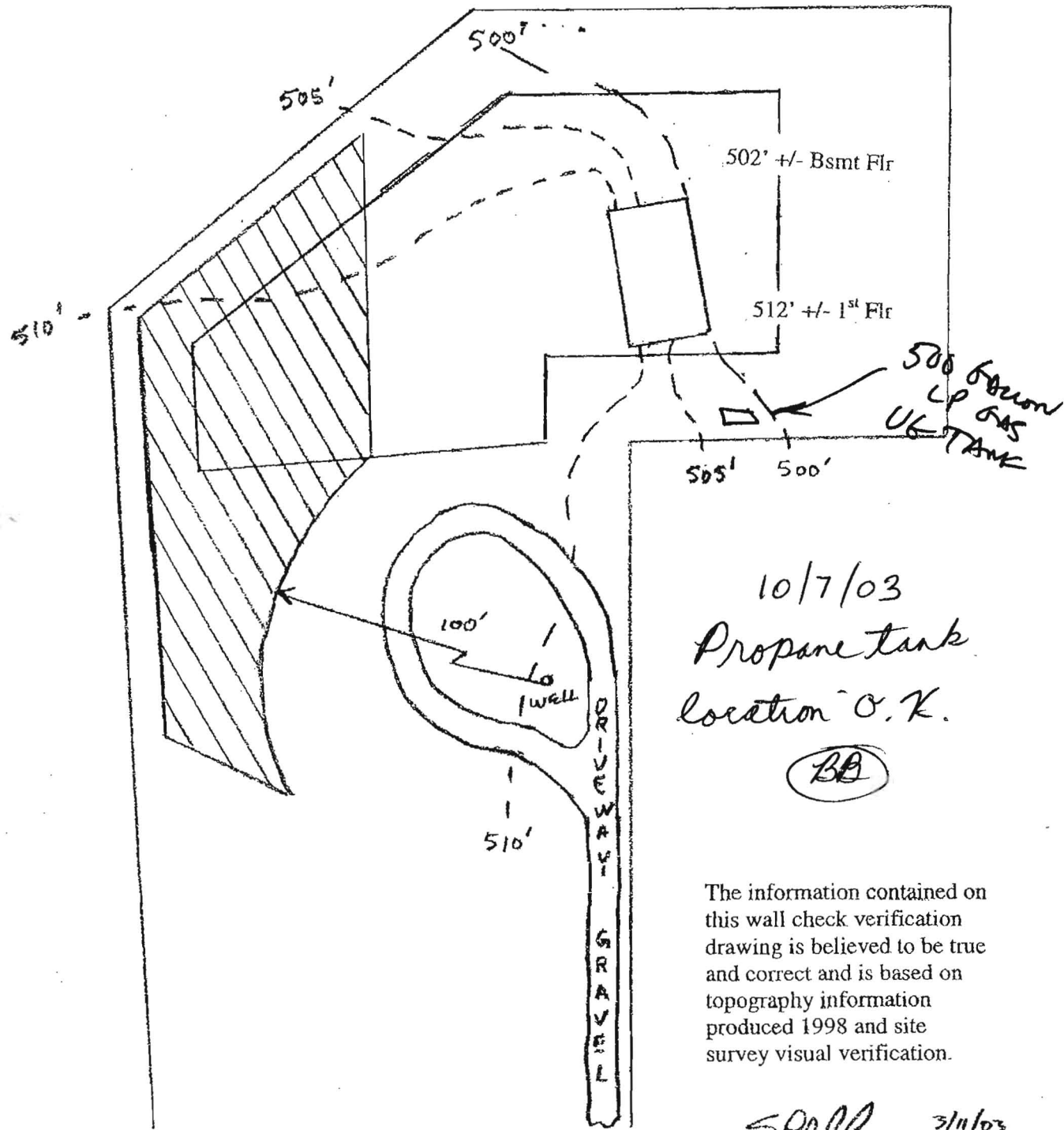


Approved Septic System Plan
Howard County Health Department

Brian Luber 11/22/02

REVISED
11/15/2002

Signature: <i>Steven Pelham</i> <small>Scale: 1" = 50'</small>	Date: September 25, 2002 Single Family Detached Dwelling Four Bedrooms	Builder: Scott Loomis 3012 Dubarry Ln Brookeville, MD 20833
Lot Information: Steven Pelham, Owner Coyne Property Lot 1 of 2 13454 Clarksville Pike Highland, MD 20777	Owner: Steven Pelham <i>Steven Pelham</i> 9436 Wandering Way Columbia, MD 21045 (301) 452-1473	Builder: Scott Loomis 3012 Dubarry Ln Brookeville, MD 20833
Approved for private water and private sewerage systems in conformance with the Master Plan of Howard County Howard County Health Officer / date	This area designates a private sewage easement of at least 10,000 square feet as required by the Maryland Department of Environment for individual sewage disposal. Improvements of any nature in this area are restricted. This easement 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.	
This sewage easement replaces the previous sewage easement as recorded on plat 5293, filed 10-20-82.		
Property boundary lines based on recorded plat 5293 filed on 10-20-82, Coyne Property Lot 1 of 2, tax map 40	Topography data based on Topographic Composite Map of Howard County, Map #201, produced 1998	Sewage Easement = 11,980 sf +/- Based on percolation test conducted September 10, 2002



The information contained on this wall check verification drawing is believed to be true and correct and is based on topography information produced 1998 and site survey visual verification.

Spell 3/11/03

Scale: 1" = 50'	Single Family Detached Dwelling Four Bedrooms	March 11, 2003
Lot Information: Steven Pelham, Owner Coyne Property Lot 1 of 2 13454 Clarksville Pike Highland, MD 20777	Owner: Steven Pelham 9436 Wandering Way Columbia, MD 21045 (301) 452-1473	Builder: Scott Loomis 3012 Dubarry Ln Brookeville, MD 20833
Wall Check Verification		
Property boundary lines based on recorded plat 5293 filed on 10-20-82, Coyne Property Lot 1 of 2, tax map 40	Topography data based on Topographic Composite Map of Howard County, Map #201, produced 1998	Sewage Easement = 11,980 sf +/- Based on percolation test conducted September 10, 2002

Coyne Prop lot 10/2 approved in 1988
Not Built yet

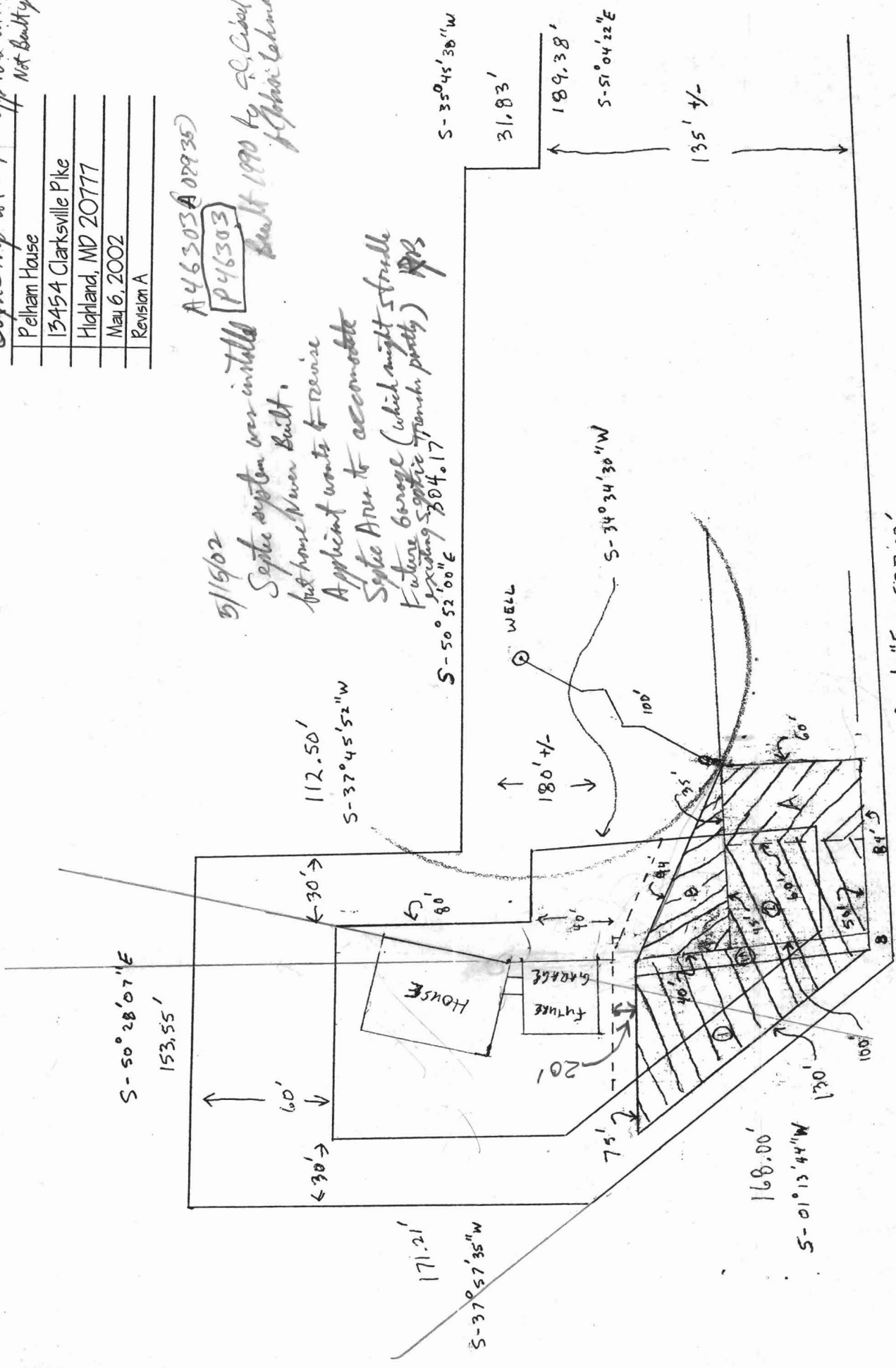
Pelham House
13454 Clarksville Pike
Highland, MD 20777
May 6, 2002
Revision A

A46303A02935

P46303

Built 1990 by R. Cibul
John Lehman

5/15/02
Septic system was installed
but home never built.
Applicant wants to revise
Septic Area to accommodate
Future Garage (which might include
existing 804.17 sq ft)



①	100X 6T =	3,350 SF
②	100X 8 =	800 SF
③	45X 60 =	2,700 SF
④	60X 35 =	2,100 SF
⑤	80X 40 =	1,600 SF
		<u>10,550 SF TOTAL</u>

EXISTING

NEW SEPTIC AREA