



Howard County Health Department

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

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

RECEIPT DATE: 5/9/18 ONSITE SEWAGE DISPOSAL SYSTEM

P 562994

APPROVAL DATE: 6/12/18 SEC PERMIT: CONSTRUCTION

A

PROPERTY ADDRESS: 12420 Hill Crest

SUBDIVISION: Hill Property LOT: 5 TAX ID: 05-599658

CONTRACTOR: South Carroll Backhoe EMAIL: scbackhoe@comcast.com

CONTRACTOR ADDRESS: 4410 Salem Bottom Road, Westminster, MD 21157 PHONE: 410-596-3618

PROPERTY OWNER: Timothy C and Medricka Womack EMAIL:

OWNER ADDRESS: 8490 Upper Sky Way, Unit #216, Laurel, MD 20723 PHONE:

SEPTIC TANK SIZE (GALLONS): 2000 TANK MANUFACTURER: Babylon Vault or equivalent

PUMP MODEL: N/A PUMP SIZE N/A PUMP TANK CAPACITY: N/A

DISTRIBUTION SYSTEM: [X] GRAVITY [] PRESSURE DOSED BEDROOMS: 5 APPLICATION RATE 1.2

Table with 2 columns: Field Name (TRENCHES, LOCATION, NOTES) and Field Value (Linear feet required: 104, Inlet depth: 3, etc.)

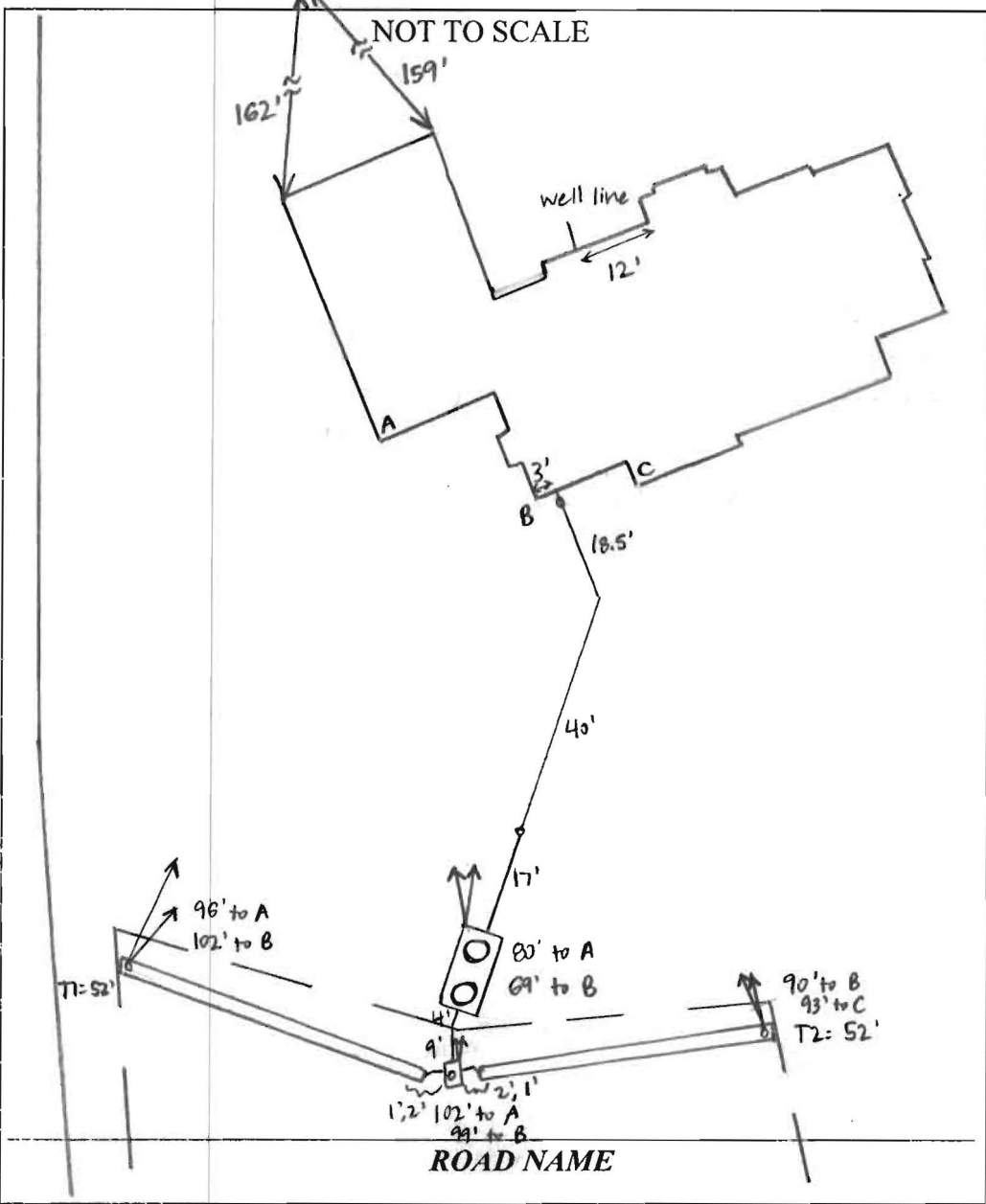
ISSUED BY: Robert Bricker ISSUE DATE: 5/9/18 EXPIRATION DATE: 5/9/19

- NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION
NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING
NOTE: STONE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.
NOTE: WATERTIGHT TANKS REQUIRED
NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRADIENT FROM ANY WATER WELL
NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS
NOTE: AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM
[X] ELECTRICAL PERMIT ISSUED E
NOTE: MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA

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. CALL 410-313-1771 TO SCHEDULE INSPECTIONS.

W H0-15-0305

NOT TO SCALE



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	3'	6'
NUMBER OF TRENCHES		2
TOTAL LENGTH		104'
ABSORPTION AREA		312' + SIDEWALL
DISTRIBUTION BOX LEVEL		YES
DISTRIBUTION BOX BAFFLE		YES
DISTRIBUTION BOX PORT		YES

SEPTIC TANK DATA	
SEPTIC TANK I LEVEL	YES
MANUFACTURER	BABYLON
CAPACITY	2000 GAL
SEAM LOC	TOP
TANK LID DEPTH	2-2.5'
BAFFLES	YES
BAFFLE FILTER	NO
MANHOLE LOC	FRONT + REAR
6" PORT LOC	NONE
WATERTIGHT TEST	NO
SLOTTED	YES
DATE ON LID	4-16-18

PUMP/SEPTIC TANK LEVEL	
MANUFACTURER	
CAPACITY	GAL
SEAM LOC	
TANK LID DEPTH	
BAFFLES	
BAFFLE FILTER	
MANHOLE LOC	
6" PORT LOC	
WATERTIGHT TEST	
SLOTTED	
DATE ON LID	

PRE-CONSTRUCTION:

5/22/18 Met S. Carroll on site for layout. SDA corners, D-box, + trenches staked. Checked lengths + elevations of trenches - 52' length + on contour. Checked elevations @ house + D-box and can make 3' inlet at trenches. (SC)

INSTALLATION:

6/8/18 House connection made. Pipe run almost to tank location. (SC) 6/12/18 Tank + D-box set. Trenches complete + left open for inspection. 3' wide, 2.5-3' to stone. Levelled speed levelers in D-box. (SC)

FINAL INSPECTOR Sarah Collins DATE OF APPROVAL 6/12/18

12420 Hill Crest

contractor copy - add trench

PARCEL 30
PERRY C. WESTLAND and BARBARA LORAIN WESTLAND
ZONED: RR-DSO
(PN 2475/724)

Revision
by kp
for GLW

TP 23
Finished grade
@ 439.0
Pipe inv. = 436.0

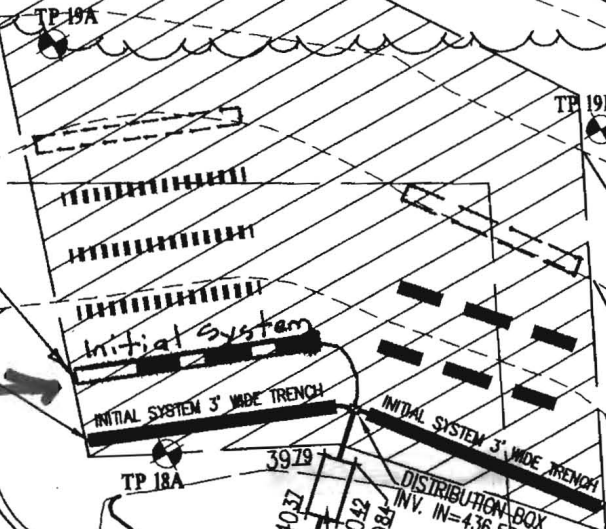
LOT 5
143,229 SF

FINISHED GRADE @ 439.3
PIPE INV. = 436.3
N 539,693.166
E 1,327,065.789

add
Trench

Approved Septic System Plan
Howard County Health Department
add 52-ft trench
due to finishing basement
R. Budner
Signature
10/1/18

PRIVATE SEWAGE DISPOSAL AREA



FINISHED GRADE
PIPE INV. = 436.3
N 539,778.519
E 1,327,130.685

WOMACK RESIDENCE
(std.)
F.F.E. = 447.20±
B.S.E. = 437.20±
PORCH(S) = 446.70±
T.O.W. = 445.87±

HILLS PROPERTY
LOT 4
(P.N. 24085-24087)

T. 100' WELL CIRCLE

TP 2

425

0+10 IE IN= 0+61 CLE
 0+00 IE OU IE IN=438.7
 0+00 IE IN 0+75

12420 Hill Crest
 contractor copy

TP 4

PROPERTY
 6
 15-24087)

KP

KP

KP

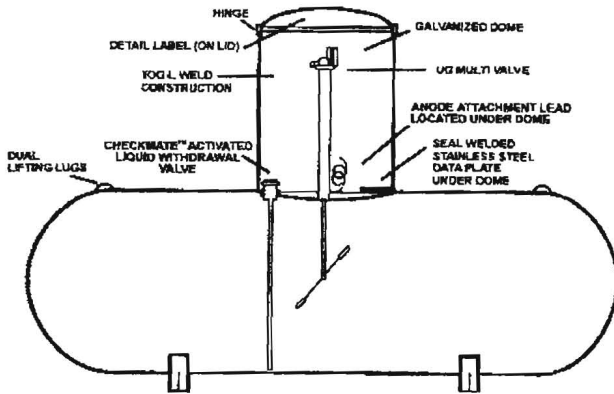
KP

KP

Hill Property (PN 24086)	Lot-5		
System Input Information	Initial System	Replacem't System No.1	Replacem't System No.2
Application Rate	1.2	1.2	1.2
Effective area beginning depth	3.0	3.5	3.5
Effective area maximum bottom depth	6.0	6.0	6.0
Number of Bedrooms	7.5	7.5	7.5
Design flow at 150 gal./day/bedroom	750	750	750
Absorption Trench Calculations			
Drainfield area required (Design flow/application rate)	875 625 s.f.	875 625 s.f.	875 625 s.f.
Effluent pipe depth to invert (cannot exceed 4'. If < 2', then field run top at 1-ft interval is required).	3.0	3.5	3.5
Effective sidewall depth "D" = depth between the effective beginning depth or pipe depth (which ever is deeper) and maximum trench bottom.	3.0	2.5	2.5
Trench Width "W" (2 or 3 feet)	3.0	3.0	3.0
Sidewall Reduction Percent = (W+2)/(W+1+2D)	50.00%	55.56%	55.56%
Linear feet of trench required = (drainfield area x sidewall reduction)/W	145.8 104.2	162 115.7	162 115.7
Trench Layout Information			
Approximate length available on contour & not exceeding 100-ft	55	55	55
Number of trenches to use	3.2	3	3
Min. length (linear feet)	52.1	54.1 38.6	54.1 38.6
Total (linear feet)	104.2	115.8	115.8
Minimum Trench Spacing: For trenches with no sidewall credit the spacing is 6' for a 2' wide trench and 9' for a 3' wide trench (measured edge to edge). All trenches utilizing sidewall reduction credit must be spaced a min. of	10.0	10.0	10.0



American Welding & Tank




Coatings: An epoxy polyamide primer is applied and cured in a gas fired oven. This primer forms a strong bond with the metal and starts building the thickness of coating that is required for underground protection. A finish coat of green acrylic urethane is applied and cured in another gas fired oven to form a hard tough outer covering. Excellent corrosion protection can be expected as a consequence of this coating formulation, as verified by test results.

Anode Protection: Each tank comes with the anode lead already attached. Simply attach the wire from the anode bag by crimping a copper ferrule between the two wires.

Supplying New and Refurbished ASME Tanks and DOT Cylinder 12 Year Recertification's

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www.awtank.com

CYLINDERS & TANKS

REPLACEMENT PARTS FOR UNDERGROUND ASME TANKS

Tank Size	Multivalve*	Check Lock Valves	AWT Float Gauge	Trinity Float Gauge	AWT Riser Dome & Cover
		Top	24" Riser	28" Riser	
RMI Part No.					
120 WG	2095A30.0	5136	1281-005	JB340A	Please Call
250 WG	2095A30.0	5136	1281-006	JB376A	AWT Dome - UG
320 WG	2095A30.0	5136	1281-006	JB376A	AWT Dome - UG
500 WG	2095A30.0	5136	1281-007	JB404D	AWT Dome - UG
1000 WG	2095A30.0	5136	1281-008	JB424C	AWT Dome - UG
1450 WG	2095A30.0	5137	JB400H	—	AWT Dome - UG
1990 WG	2095A30.0	5137	JB400H	—	AWT Dome - UG

*Must cut dip tube to D.T. length stamped on tank.

AWT UNDERGROUND TANKS

RMI Part No.	Number/Stack	Capacity in W.G.	Overall Length	Leg Spacing	Outside Diameter	Height w/Hood	Weight (Lbs)
AWT120UGLR	6	120	5' 9"	45 1/4"	24"	4' 1"	257
AWT250UGLR	5	250	7' 10"	60"	30"	4' 7"	483
AWT325UGLR	5	325	9' 11"	60"	30"	4' 7"	597
AWT500UGLR	5	500	9' 11"	60"	37"	5' 2"	949
AWT850UGLR	5	850	13' 9"	86"	41"	5' 6"	1440
AWT1000UGLR	5	1000	16' 0"	121"	41"	5' 6"	1760
AWT1450UGLR	4	1450	17' 7"	139 1/2"	46"	5' 11"	2658
AWT1990UGLR	4	1990	23' 11"	192"	46"	5' 11"	3400

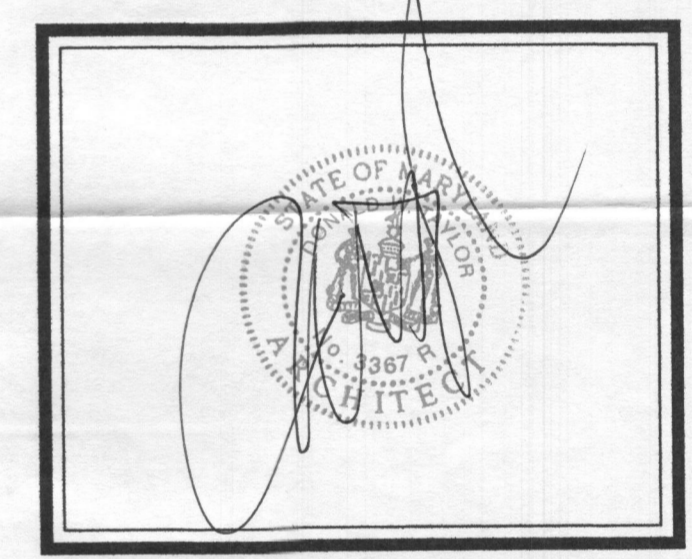
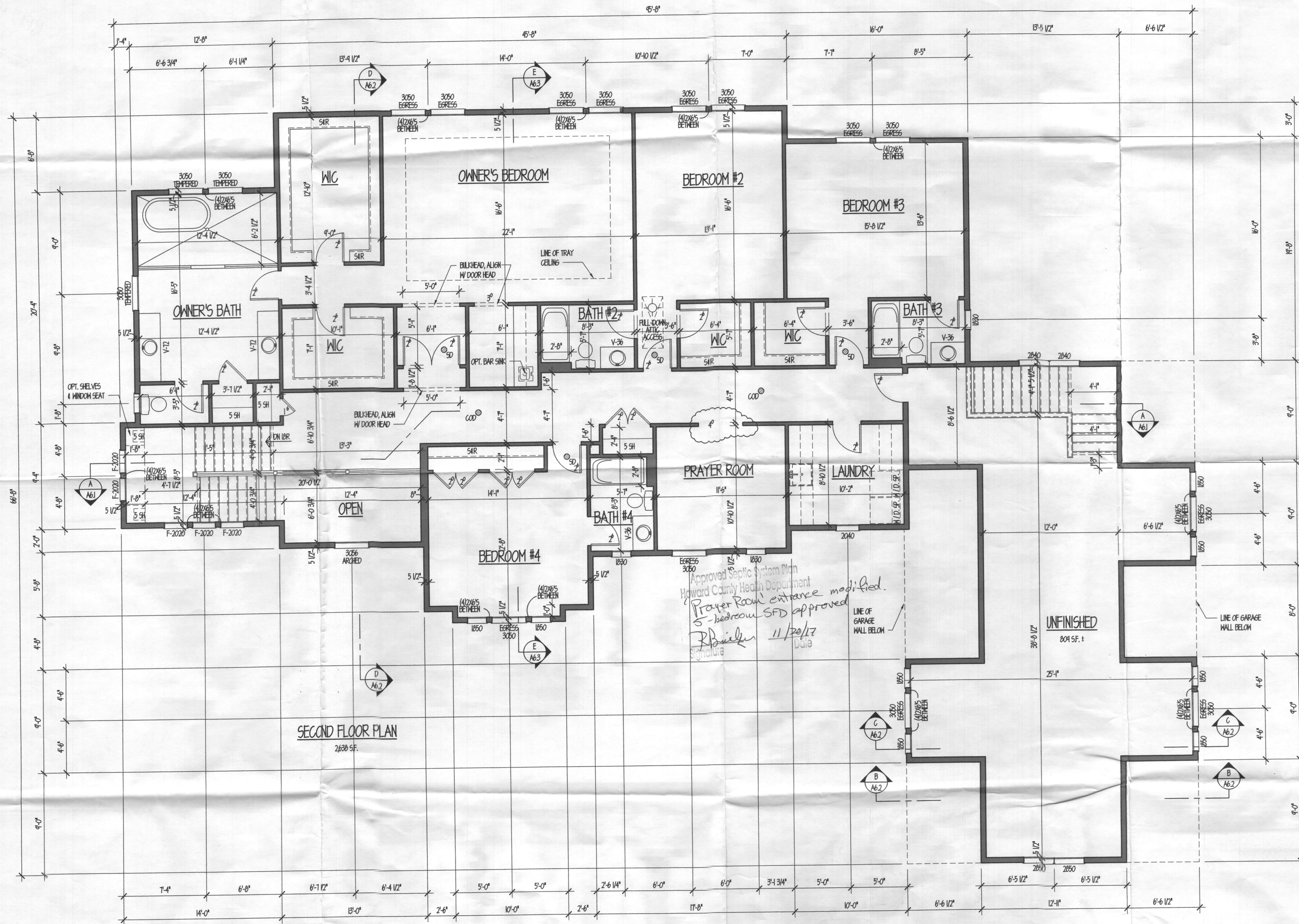
* Std. 24" Riser; Short riser is available on special request.

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or call for personal assistance

Fax: 800-243-8341



PROFESSIONAL CERTIFICATION: I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE # 3387-E, EXPIRATION DATE 10/7/19.

dw taylor
associates, inc
ARCHITECT

5024 DORSEY HALL DR. SUITE 203 ELICOTT CITY, MD 21042
P. (410) 964 1181 F. (410) 997 2324 www.dwtaylor.com

BID & PERMIT ONLY

REVISIONS	DATE	REMARKS
1	11/28/17	REVISED PRAYER ROOM DOORWAY

drawn by	ATH	checked by	
scale	1/4" = 1'-0"	date	08/25/17

PROJECT TITLE
**CAIRN CUSTOM HOMES
WOMACK RESIDENCE**

CONTENT
SECOND FLOOR PLAN
Revision, OK ref

PROJECT NUMBER	DRAWING NUMBER
2625	A4.1

NOTES:

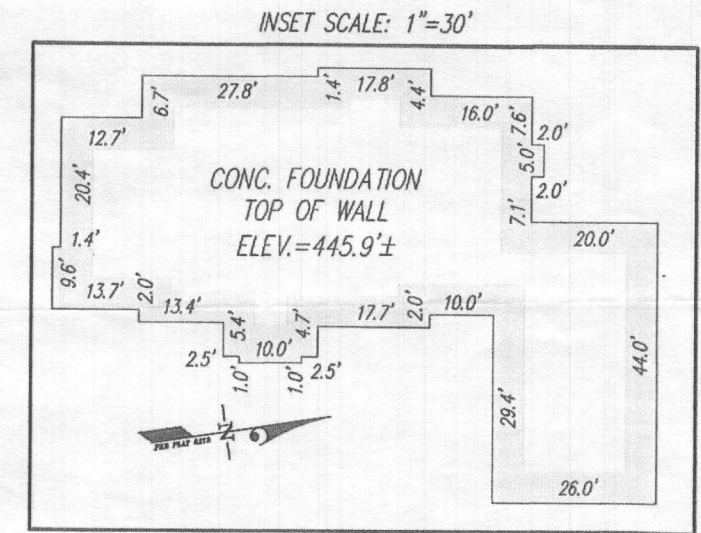
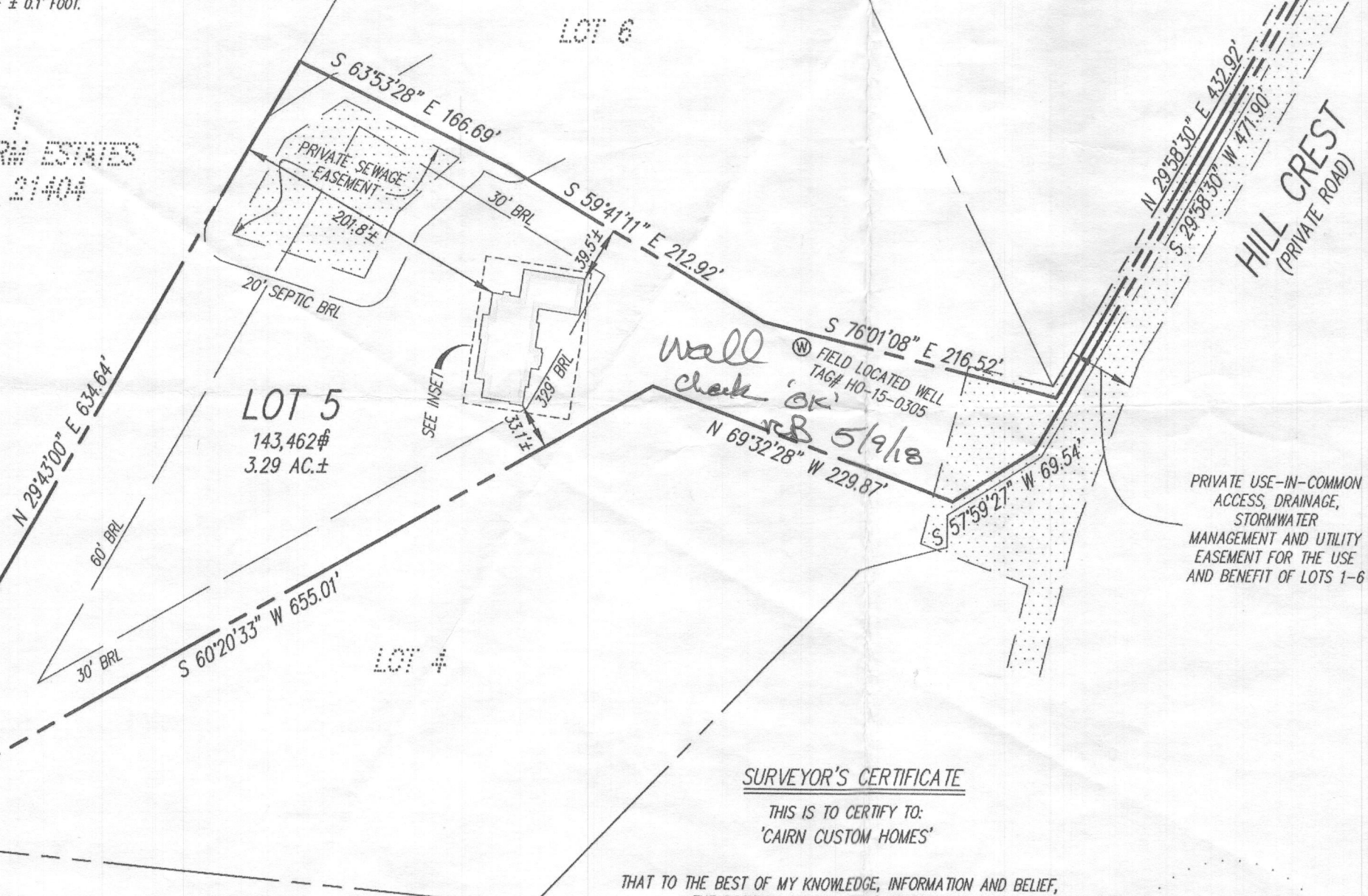
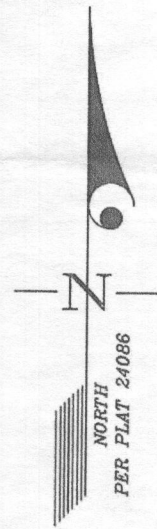
THIS WALLCHECK WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT. THIS PROPERTY IS SUBJECT TO ANY AND ALL EASEMENTS, RIGHTS-OF-WAY, COVENANTS, AND RESTRICTIONS, ETC. OF RECORD, SOME OR ALL OF WHICH MAY OR MAY NOT BE SHOWN AND/OR REFERENCED HEREON. BEARINGS AND DISTANCES OF THE PROPERTY BOUNDARY LINES SHOWN HEREON ARE PER AVAILABLE RECORDS AND HAVE NOT BEEN FIELD VERIFIED.

THIS IS NOT A "LOCATION DRAWING" AND IS NOT TO BE USED FOR SETTLEMENT PURPOSES.

THE PROPERTY SHOWN HEREON LIES WITHIN ZONE X (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AS SHOWN ON THE F.E.M.A. FLOOD INSURANCE RATE MAP, MAP NUMBER 24027C01400, EFFECTIVE DATE NOVEMBER 6, 2013.

BUILDING SETBACKS (BRL'S) SHOWN HEREON PER PLAT No. 24086. SETBACK DISTANCES SHOWN HEREON ARE TO THE OUTERMOST FACE OF THE FOUNDATION WALLS AND HAVE AN ACCURACY OF ± 0.1' FOOT.

LOT 1
WESTLAND FARM ESTATES
PLAT No. 21404



SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY TO:
'CAIRN CUSTOM HOMES'

THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF,
THE POSITION OF THIS BUILDING FOUNDATION
HAS BEEN ESTABLISHED BY ACCEPTED FIELD PRACTICES.

[Signature] 12/15/2017
For Gutschick, Little and Weber, P.A.
Thomas C. O'Connor, Jr.,
Professional Land Surveyor, No. 10954 (EXP. DATE: 07/03/2018)

THIS WALLCHECK IS VALID ONLY WITH AN ORIGINAL SIGNATURE AND EMBOSSED SEAL OF THE ABOVE SURVEYOR.

GLWGUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
BURTONSVILLE, MARYLAND 20866
TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

DES. PREPARED FOR:
CAIRN CUSTOM HOMES
10548 GORMAN ROAD
LAUREL, MD 20723

DRN. AR

CHK.

WALLCHECK (SPECIAL PURPOSE SURVEY)	
HILL PROPERTY	
LOT 5	
12420 HILL CREST	
HOWARD COUNTY, MARYLAND	
DATE OF LATEST FIELD WORK: 12-14-2017	G.L.W. FILE No. 17053
REFERENCE: PLAT No.: 24086	SCALE: 1"=100'

S:\Survey Drawings\WALLCHECK\HILL-PROPERTY-17053\WCK-5.dwg, 12/15/2017 11:17:24 AM, admtr, 1:1