

Boulder County Public Health OWTS Inspection Results

OPEN	HOLE	

FINAL INSPECTION





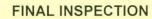
Property Owner _ M	URPHY		
Location 17503	3 HIGHWAY 7	32-3N-7ZW	
	(Legal and Property	Address)	
Approved	Pending/	Not Approved	
Comments Final	2 approval po	nding engineer	
approval	2 letter.		
Environmental Health	Specialist W Settl	Date 7/10/18 Time 215 PM	Ĺ

Environmental Health Division • 3450 Broadway, Boulder, CO 80304 • 303.441.1564



Boulder County Public Health OWTS Inspection Results

PEN	N HOL	EX
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Property Owner MURPHY			
Location 17503 High	way 7	32.3N-	724
	(Legal and Property Address)		
Approved	Pending	Not Approved	
Comments Do not Ins	stell deep	2R than	2 pt be low
existing grade	on downth	le side	
Environmental Health Specialist_	* Wyseld	Date 7/3/18	Time OAM



Boulder County Public Health

3450 Broadway, Boulder, CO 80304 (303) 441-1564

PERMIT TO INSTALL, CONSTRUCT, ALTER, OR REPAIR ONSITE WASTEWATER SYSTEMOWS).

Permit Type: OWTS MAJOR REPAIR (FULL FEE)

Site Address 17503 HWY 7 Lyons, CO 80540

Legal Description (short) 323N72W

Owner GENNA MURPHY & SHAUNA RIES

Mailing Address 17503 HWY 7 City/State/Zip Lyons, CO 80540

Agent Not Specified

Mailing Address Not Specified
City/State/Zip Not Specified

Engineer VAN HORN ENGINEERING & SURVEY

Permit # ON0050954

Application Date 05/08/2018

Parcel # 119932000004

Phone (Home) (303) 747-8887

(Cell Phone) (303) 862-0289

Phone (Work)

Installer: T&G ENTERPRISES (DBA ACKERMAN EX

Site Information

- 1. Proposed Building(s) Primary Dwelling/Structure
- 2. Area of Lot (Acres) 60.64
- 3. Type of System Requested Sand Filter
- Water Supply Well
- 5. Slope 30% 45%
- 6. Floodplain N

System Design Parameters

- 1. Soil Type 1- Sandy, Loamy Sand
- 2. Soil Percolation Rate NA Minutes/Inch
- 3. LTAR 1.00
- 4. Seasonal Groundwater >3 Feet
- 5. Bedrock Depth 3
- 6. Unsuitable Soil Depth 1.5 Feet
- 7. Electrical Inspection Required N
- 8. Sized for 3 bedrooms (2 persons/bedroom)
- 9. Design Flow 450

Installation Instructions

Type of System: Sand Filter

Minimum septic tank/vault 1,000 gallons.

Type of System 2: Lift Station

2. Minimum absorption/evaporation area 4

450 square feet

INSTALL SYSTEM PER VAN HORN ENGINEERING AND SURVEYING, PROJECT NO. 2016-04-16 DATED 6/22/16 AND STAMPED 6/27/16, AND REVISION DATED AND STAMPED ON 6/22/18, AND PER ALL BOULDER COUNTY PUBLIC HEALTH (BCPH) ONSITE WASTEWATER TREATMENT SYSTEM (OWTS) REGULATIONS. SYSTEM MUST BE INSTALLED IN THE AREA OF SOIL TEST PITS BY A CONTRACTOR LICENSED BY BCPH.

PER ENGINEER REVISION DATED 6/22/18, RIP AND REMOVE ALL EXISTING SOIL DOWN TO 3-FEET BELOW EXISTING GRADE AND REPLACE WITH ASTM-33 SAND APPROVED BY ENGINEER. INFILTRATIVE SURFACE (BOTTOM OF GRAVEL LAYER) MUST BE INSTALLED AT EXISTING GRADE. INSPECTION PORTS ACCESSIBLE FROM GRADE MUST BE INSTALLED AT THE TERMINAL END OF EACH DISTRIBUTION LINE AND MUST EXTEND DOWN TO INFILTRATIVE SURFACE. FLUSHING VALVES MUST BE INSTALLED AT THE END OF EACH DISTRIBUTION LINE AND BE ACCESSIBLE FROM GRADE. A MINIMUM 3:1 SLOPE MUST BE CONSTRUCTED TO ENGINEER'S SPECIFICATIONS ALONG ALL SIDES OF THE STA. FINAL GRADING MUST DIVERT SURFACE WATER RUNOFF AWAY FROM STA. MAINTAIN MINIMUM REQUIRED SETBACKS OF 10' TO PROPERTY LINES, 20' TO OCCUPIED BUILDINGS, 25' TO WATERLINES, 50' TO WATERWAYS, 100' TO ALL WELLS. CISTERN ON SITE IS NON-POTABLE – NO SETBACK.

EXISTING TANK MAY BE USED IF VERIFIED WATERTIGHT AND IN GOOD CONDITION. REPLACE TEES IF NEEDED, INSTALL RISERS EXTENDING ABOVE FINAL GRADE OVER EACH ACCESS MANHOLE, AND ADD AN EFFLUENT FILTER TO THE TANK OUTLET PRIOR TO SIPHON DOSING STATION. INSTALL A 400-GALLON SIPHON DOSING STATION FOLLOWING THE EXISTING 1000 GALLON TANK. THERE MUST BE A 25-FOOT ELEVATION DIFFERENCE FROM SIPHON OUTLET TO STA MANIFOLD, PER ENGINEER DESIGN.

FINAL INSPECTION BY BCPH AND DESIGN ENGINEER AND ENGINEER APPROVAL LETTER IS REQUIRED PRIOR TO FINAL APPROVAL OF THIS SYSTEM. AS-BUILT DRAWING SUBMITTAL IS REQUIRED.

Permission is hereby granted to the owner or the owner's agent to perform the work indicated on this permit in accordance with the Boulder County OWS regulations. This permit is reviewable on an annual basis and is valid for 5 years provided that the conditions of the permit do not change, unless revoked for non-compliance.

TO THE OWNER OR AGENT: Leave entire OWS uncovered for final inspection. A final inspection is required for all system installations. BOULDER COUNTY PUBLIC HEALTH AND ITS REPRESENTATIVES SHALL ASSUME NO RESPONSIBILITY IN CASE OF FAILURE OR INADEQUACY OF AN OWS BEYOND CONSULTING IN GOOD FAITH WITH THE PROPERTY OWNER OR AGENT.

PLEASE BE ADVISED that issuing this onsite water system (OWS) permit is dependent of other reviews and approvals that may be required by the County Land Use or Building Departments. Because a variety of factors may influence placement of an OWS on a lot, IT IS STRONGLY RECOMMENDED that you contact these departments regarding their requirements prior to installing this OWS.

Environmental Health Specialist

Owner or Agent GENNA MURPHY & SHAUNA RIES

Permit Date <u>06/26/2018</u>

Final Inspection Date 7/10/18
Environmental Health Specialist W

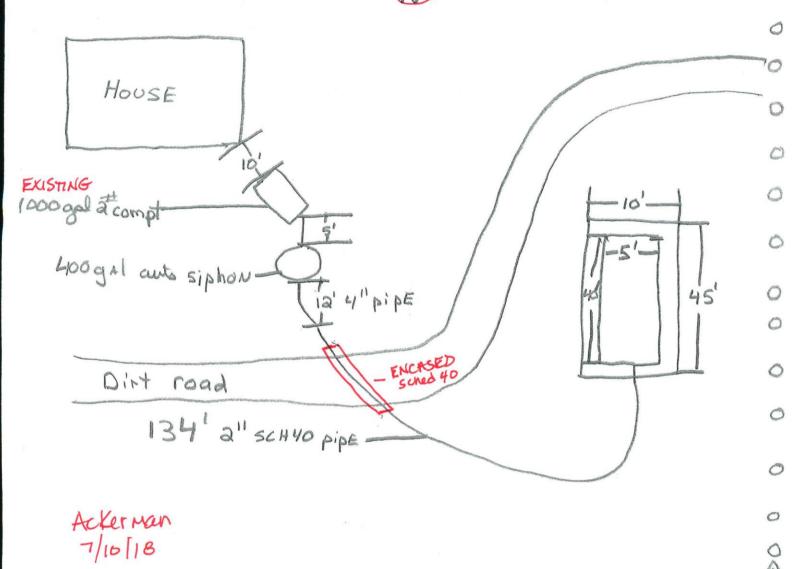
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Page 1 of 1

Engineer Approval Date 7/31/18
Final Approval Date 8/8/18

Original Copy

17503 Highway, Lyons, Co



FENCE



50954

BOULDER COUNTY PUBLIC HEALTH ONSITE WASTEWATER SYSTEM

3450 Broadway Boulder, CO 80304 (303)441-1564



FINAL INSPECTION
Property Owner: MURPHY Installer: ACKER MAN
Location: 17503 H16HWAY 7 32-3N-72W
(Property and Legal)
Installed in Area of Tests: YES At Depth of Tests: YES Adequate Sewer Line Fall: YES - PRE UI OUSLY
Septic Tank/Lift Station/ATU Size: EXISTING (1000 gallon)
Company: Type: Risers: Added to Effluent Screen: Madded to Siphon tank INLET
Pump Siphon: Warning Device Operating: Location: Type:
BP#: Minimum Area Required: 450 Area Installed: 539 # (43' x11')
Soil Treatment Description/Media: ASTM -33 SAND
Distribution Box: ☐ Riser: ☐ Flow Equalizers: ☐ Equal Distribution: ☐
Distribution Lines: 2 (looped size of Pipe: 2 // Level: Monitor Pipes: Flushing Valves:
Depth of Gravel: 10" Depth of System: 4'uphill Depth of Fill: 3' Cover: FABRIC
Distance to Wells: Distance to Waterways: N/A E & M Agreement: □
Other: Siphon tank is FLXX concrete 400-gallon
EXISTING 1000gal tank had existing riser to grade over in let man hole.
Effluent Line encased in sched 40 under drive way
Approved: ☑ Pending: ☑ Not Approved: □
See Attached Inspection Slip
Environmental Health Specialist: Wy Bell
Date 7/10/18



50954 BOULDER COUNTY PUBLIC HEALTH ONSITE WASTEWATER TREATMENT SYSTEM

3450 Broadway Boulder, CO 80304 441-1564

OPEN HOLE INSPECTION WORK SHEET

PROPERTY OWNER MURPH)	У		
LOCATION 17503 HIGHE		32-3N-7ZW	
(Legal a Dimensions of Excavation	nd Property Address)		
Total Area Required 450 4			
Maximum Depth of Final Installation Excavation distance to:			
Water Lines Property Lines	Wells Road Cuts	_ Springs Waterways	
Other NO 6W/ NO Red	ed_ OX/Same (S	soil to bottom	
PLOT OF SITE			,
X CAR	ERAL		M
Y COR			N
	V	X	V
X	XX		
16)	[5]	1	
[91)	(91)	12,	
		V	
ApprovedPendir	ng	Not Approved	
- Percent	See Attached Inspec		
Environmental Health Specialist:	Jendy B	ell M	
Date: 7/3/18	0		



50954

BOULDER COUNTY PUBLIC HEALTH ONSITE WASTEWATER TREATMENT SYSTEM



3450 Broadway Boulder, CO 80304 303-441-1564

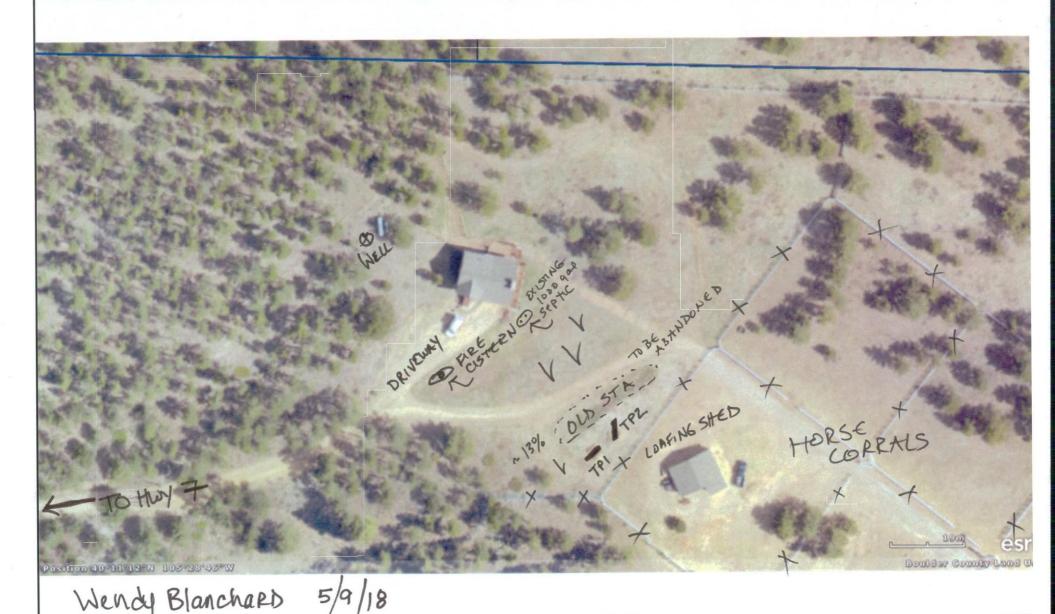
SITE INSPECTION WORK SHEET

Property Owner: M	urphy			
		32-3N-721	((
	(Property Addr	ess and Legal)		
Type of System Requested	SIPHON LIFTSTN, AND MOUNDED STA	Water Supply	WELL	
Proposed Structure	EXISTING 3-BORM	Lot Size	60.64 ACRES	
Floodplain	No	Density	LOW	
Slope	~ 13%	Area for Expansion	YES	
Groundwater Depth	>3'	Max. Seasonal Groundwater Depth	>31	
Bedrock Depth	3'	Bedrock Type	6 RANITE	
Limiting Soil Type (unsuitable)	Type & > 35% ROCK	Limiting Soil depth(s) (unsuitable)	18"	
Perc Rate		Depth of Perc Holes		
LTAR	86 1.00 FILTER			
Minimum Required Se	tbacks:			
Water Lines	25'	Springs OCCUPIED	20'	
Wells	1001	Waterways	50'	
Property Lines	101	Municipal Sewer Available	>1 MILE	
Comments: WSING EXISTING APPROVED TANK SIPHON OUTLET ** ADD SIPHON LIFT STATION 3:1 side slopes elevation diff.				
ABANDON OLD STA 6/12-RPEREVISION				
ABANDON OLD STA INSTACE MOUNDED STA (122-RPEREVISION I'/z' Type 1 + 1'/z' ASTM-33 SAND FILTER *CISTERN-FIRE Non-potable APPROVAL: V REMOVE OFGANIC MATTER APPROVAL:				
APPROVAL: AREMONE OFGANIC MATTER				
DENIAL:	REASON(S)			
Environmental Health Specialist: Wy Boundary Date: 5/9/18				
** See Other Side For Plot Of Site and Soil Profile Log.**				



Boulder County Land Use Department 2045 13th Street, Boulder, Co 80304 303-441-3930 www.bouldercounty.org

17503 HIGHWAY 7



17503 HIGHWAY 7 5/9/18 WB

Soil Profile Log Test Pit

	Depth	USDA
		Soil
		Texture
1011	1	LOAMY
0-181/	2	SAND
(3	ROCKS
	4	/
	5	
	6	X
	7	
	8	
P	it en	dse3'
Ball	when.	tossed
	10000	

Engineer Report		BCPH Site Eval	
Soil Type	1 LOAMY SAND	Soil Type	1 LOAMY SAND
Redoxy features present? Depth?	No	Redoxy features present? Depth?	NO , 750/
% Rock	0-1811 <35%	% Rock	6-18" 435%
USDA Soil	SINGLE	USDA Soil	SINGLE
Structure/Grade	GRAIN	Structure/Grade	GRAIN
Limiting condition?*	Type &	Limiting	Tupe &
Depth?	1811-3'+	condition?* Depth?	18"-3'+
General site features (swales, ponds,	Well	General site features (swales,	Well
creeks, drainage)		ponds, creeks,	
		drainage)	

^{*}Limiting condition = bedrock, low permeability

Test Pit

	Depth	USDA Soil Texture
0-21	1	LOAMY
g 2'.3'	2	SAND
0	3	ROCKS
1	4	
	5	
	6	X
	7	
	8	
P		ds@3.5
Ba	ll wh	en tossed bloon

Engineer Report		BCPH Site Eval	
Soil Type	O LOAMY	Soil Type	10 LOAMYD
Redoxy features present? Depth?	NO 12501	Redoxy features present? Depth?	No
% Rock	21/2-41/2>35%	% Rock	0-2' 435%
USDA Soil Structure/Grade	SINGLE GRAIN	USDA Soil Structure/Grade	SINGLE, GRAIN
Limiting condition?* Depth?	Type \$ 21/2' - 41/2'+	Limiting condition?* Depth?	Type \$ 2'-31/2'+
General site features (swales, ponds, creeks, drainage)	Well	General site features (swales, ponds, creeks, drainage)	vell



Boulder County Public Health

Application for Permit to Install, Construct,

MAY 0 8 2018
Alter or Repair an Onsite Wastewater Treatment System (OWTS)

2450 Broadway - Boulder - CO-80304
Ph: 303-441-1564

SOULDER COUNTY

3450 Broadway - Boulder - CO- 80304	
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ENVIRO	TIL SOS 441 1504
HE	Type of Permit: Application Date: 05 1 08 1 18
	Major Repair (\$1,023.00) Excavation Test Pit Dug: YES NO Minor Repair (\$1,023.00) New – ONLY use if property never had a structure (\$1,023.00)
	Reason for applying: Buying a house/property
PERMIT - ALL APPLICATION INFORMATION MUST BE COMPLETE. INSTRUCTIONS ON PAGE TWO MUST ALSO BE COMPLETED.	Site address: 17503 Highway 7 Lyns, Co 80540 Number of Bedrooms: Area of lot in acres: Existing Building: Residential Commercial Industrial Institutional Water information: Supply (check all that apply): Cistern Water District Spring Well Water District Name:
CATION INFORMAT	Engineer: Van Horn Installer: Aclasma Excasa hng
IN ORDER TO ISSUE A PERMIT - ALL APPLIC PLOT PLAN AND INSTRUCTIONS ON I	Owner on Record and Owner Contact Information: Name: Penpu Murphy & Shavna Lies Mailing address: 17503 Highway 7 City Lyms, State CD, Zip 80540 Phone: (3B) 747-8887 Cell Phone: (303) 862 - 0289 Email: Murphygenna Phofmail. Com
ON	Contact Information If Different from Owner on Record Name:





Boulder County Public Health Application for Permit to Install, Construct,

Alter or Repair an Onsite Wastewater Treatment System (OWTS)

3450 Broadway - Boulder - CO- 80304

Ph: 303-441-1564

Fax: 303-441-1468

PLEASE PROVIDE detailed instructions to the property.

DIRECTIONS TO PROPERTY

WE High 7 past Peak to Peak

Scenic Ovalook

Look for Blue Sign "Scenic Ovalook"

One mile

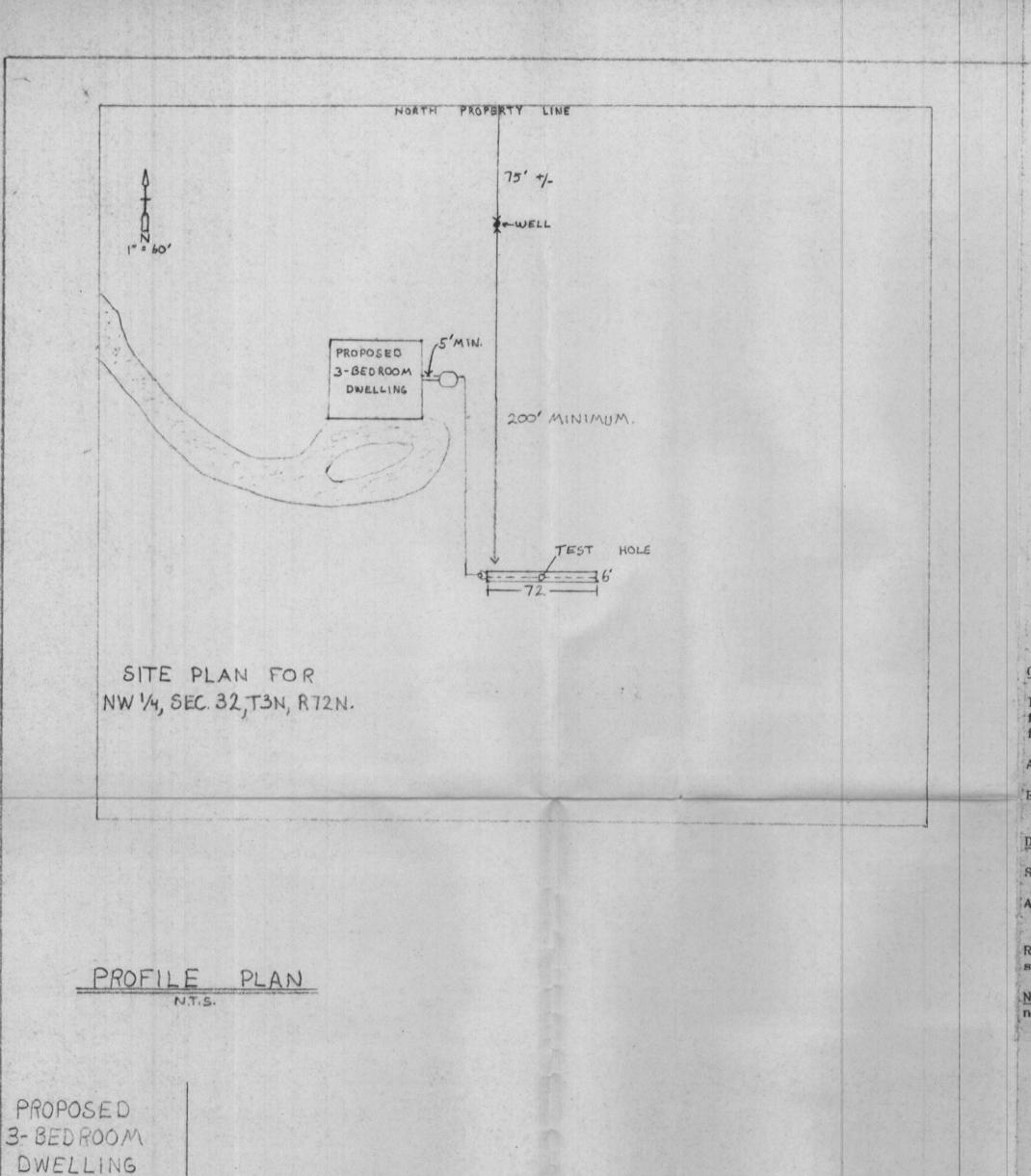
Turn right, right after this Sign.

Coyote Ridge Ranch 17503 Hzg 7

PLEASE SKETCH a plot plan below indicating the (proposed) location of buildings, wells, or other types of water supply, waterlines, proposed septic area and any physical features such as streams, lakes, ditches, gulches or rock formations on the property.

PLOT PLAN OF PROPERTY

Internal use only: Parcel Number:		Area #:
	ON Record:	
Legal Description:	Lot:	Block:
	Subdivision:	Addition:
Section:	Township:	Range:
☐ Site Address Validat	ted	
NOTES:		11.1.0134.1
	STA DA	LV + SIMON



12" TO 18" EARTH COVER

I'MIN. SOIL ON HIGHSIDE OF SLOPE

INFILTRATORS

1000 GAL.

COMPARTMENT CONCRETE TANK

4" PVC @ 1% MIN SLOPE!

DWT

4" PVC @ 2% MIN. SLOPE -

-REVEGETATE WITH GRASS SEED.

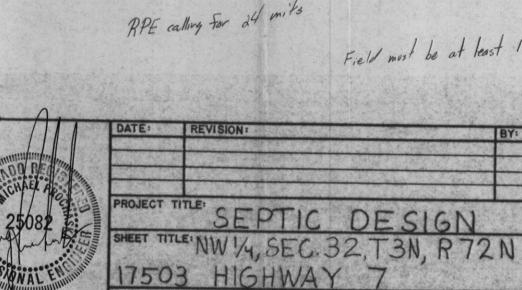
VI 4 3' MIN. SHOULDERS

TEST HOLE DATA TEST NUMBER PERCOLATION RATE AVG. PERCOLATION RATE = 1" IN 6 MINUTES. DARK TOPSOIL ENCOUNTERED HARD GRANITE/ BEDROCK AT 38". GENERAL NOTES Install 1000 gallon two-compartment tank, distribution box and 72' X 6' standard infiltrator field. Field shall be built up a minimum of I' on the highside of field. Soil imported into field shall have a percolation rate of 10 M.P.I or better. All construction and materials to meet Boulder County Health Department regulations. Engineer to make final and other inspections as needed. Sizing is based on 3 bedrooms and a percolation rate of one inch in 10 minutes. 720 gallan/ day $A_b = 450 \times 1.5 \times 1.3 \times \sqrt{10} = 555 \text{ sq. ft.}$ 2 units wide × 12 units long Required 555 sq.ft.x 0.65 = 361 sq.ft.. Recommend a 72' X 6 seepage bed using the standard infiltrator= 432 sq. ft. (24 units) NOTE: OWNER OCCUPANTS: Septic systems are not designed to treat oil, grease, kitchen fats, of non-biodegradable soaps. 385/18.75 = 21 units min.

Determine suitability of fill.

RPE calling for 24 mits

Field must be at least 1'above original grade on up hill side



JOHN MILLER

CHECKED BY KMP SCALE SHOWN 001.00

DRAWN BY RHR DATE

DESIGNED BY RHR APPROVED BY KMP JOB NO. SHEET SHEETS

GRADE 10%

ROCKY MOUNTAIN CONSULTANTS, INC. 437 South St. Vrain P.O. Box 1649 Estes Park, CO 80517

586-2458 Local 825-8233 Metro

FINAL INSPECTION OF SEPTIC SYSTEM

то:	Boulder	COUNTY HEALTH DEPARTMENT
	John Miller	
LOCATION: NWY, See 32, T3N, R72N/17583 HWY7, Allers Park JOB NO.: 9-2331.661.66 DATE OF INSPECTION: 7/19/ COMMENTS: I hereby certify that this system was inspected and found to be in	N, R72N/17503 HWY7, Allens Pork, Co.	
		•
	Con. 1 2 2	
	, i.e.	
,	र्वाराज्ये अस्ति तथ	
	. , .	
	g to the approved pla	stem was inspected and found to be installed in, except as noted above. Michael 5 Jall Inspector



437 South St. Vrain Estes Park, CO 80517 (303) 586-2458 Metro (303) 825-8233 Fax (303) 825-8912

May 3, 1993

Boulder County Health Department 3450 Broadway Boulder, CO 80304

Re: John Miller

NW 1/4, Sec.32, T3N, R72N RMC Job # 9-2331.001.00

Dear Mesdames & Gentlemen:

We submit herewith a septic system design for NW 1/4, Sec. 32, T3N, R72N, 17503 Hwy. 7.

We are of the opinion that when properly installed this system will function adequately.

Sincerely, ROCKY MOUNTAIN CONSULTANTS, INC.

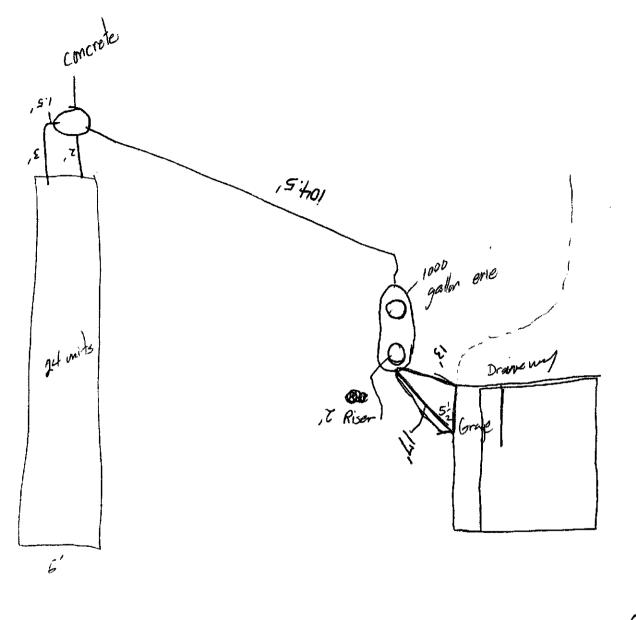
Ron H. Richmond

Revie

1 2 102

RHR/wjk

Projec



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July 31, 2018

Boulder County Health Department 3450 Broadway Boulder, CO 80304

RE: Murphy ISDS final approval

To whom it may concern,

We recently completed an inspection of the finished system of the constructed septic system at 17503 Highway 7 for the property owned by Genna Murphy and Shauna Ries. An open hole inspection was conducted prior to soil placement to confirm adequate depth to restrictive layer. All added material placed in the bed area was material meeting the specifications of sand filter media per the design. The system as installed had sufficient depth of sand below the bed area as required in the design/permit. The system has been properly graded and covered and the finished system conforms to our design and we approve of the overall septic system. The dosing tank was placed after the existing tank as specified in the design and conforms to the septic design and we approve of the finished septic system. If you have any questions please call me at 970/586-9388 x17.

Sincerely,

Lonnie Sheldon, PE

For Van Horn Engineering



LAND SURVEYING SUBDIVISIONS DEVELOPMENT PLANNING IMPROVEMENT PLATS STRUCTURAL ENGINEERING SANITARY ENGINEERING MUNICIPAL ENGINEERING

HORN ENGINEERING AND SURVEYING 1043 FISH CREEK ROAD * ESTES PARK, CO 80517 PHONE: (970) 586-9388 * FAX: (970) 586-8101

Individual Sewage Disposal System Design

TRACT IN THE NW ¼ OF S32-T3N-R72W OF THE 6th P.M., BOULDER COUNTY, STATE OF COLORADO.

OWNER/ADDRESS:

Genna Murphy and Shauna Ries

17503 Highway 7 Allenspark, CO 80510

BUILDING CONTRACTOR:

N/A

SYSTEMS CONTRACTOR:

T & G Enterprises 79 Big John Road

Allenspark, CO 80540

BUILDING:

Existing 3 Bedroom House

WATER SUPPLY:

Existing Well

DEPTH TO BEDROCK:

36"

SOIL TYPE:

6" Sandy Topsoil

1'-0" USDA Type 1 Loamy Sand, Single Grain

1'-6" USDA Non-restrictive Type 0 Sand w/Highly Decomposed

Granite (>35%rock)

DEPTH TO GROUNDWATER:

None Found

SYSTEM TYPE:

Gravel and Pipe, Siphon Dosed Pressure System

SEPTIC TANK:

Existing 1000 Gallon Two Compartment Tank and New 400 Gallon Siphon Dosing Tank, Pressurized (±25' Elev. Drop

Tank to Field, Sufficient Pressure for Equal Distribution)

CALCULATIONS:

USDA Soil Type 1 LTAR = 0.8 gal/s.f. 1.0 for Ship

Q = 3 bedrooms = 450 apd

A Bed = 450(1.0)(1.0)/1.0= 450.0 s.f. required

Longie A. Sheldon. PE & PLS #26974

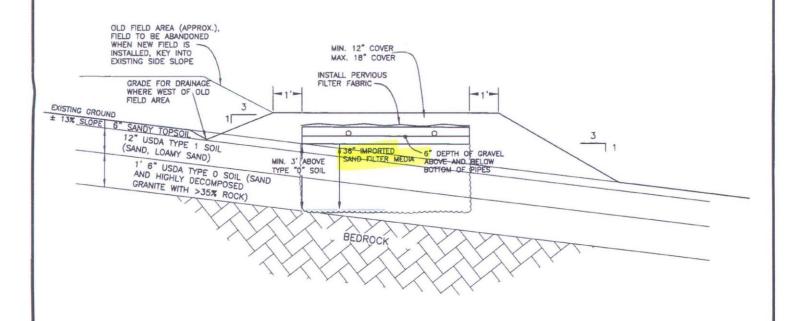
construct a 10'x45' gravel and pipe septic field Area of Bed = 450.0 s.f. provided

An open hole inspection is NOT required. A reperc test is NOT required, 18" of material meeting the specifications of sand filter media must be used

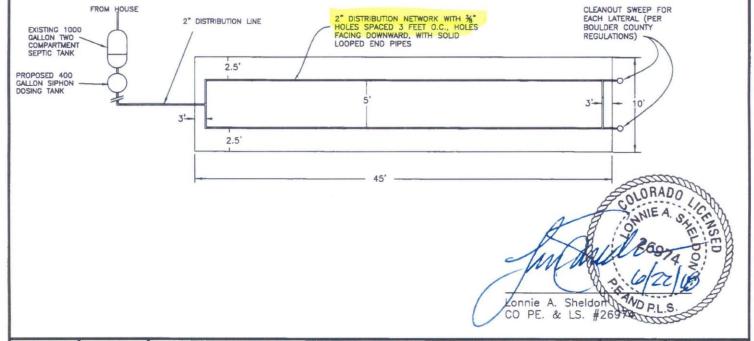
HORN ENGINEERING VANDRAWN DATE SCALE PROJ. NO. 1043 Fish Creek Road - Estes Park, CO 80517 TWB 6-22-18 NO SCALE 2016-04-16 Phone: (970) 586-9388 - vanhornengineering.com

STANDARD GRAVEL AND PIPE DESIGN

BED CROSS-SECTION
NO SCALE



BED PLAN VIEW NO SCALE



DRAWN D	ATE		ENGINEERING	SCALE	PROJ. NO.
TWB 6-2			Estes Park, CO 80517vanhornengineering.com	NO SCALE	2016-04-16

CONSTRUCTION AND MAINTENANCE NOTES:

UNIQUE REQUIREMENTS FOR THIS DESIGN:

- 1. THE EXISTING 1000 GALLON TWO COMPARTMENT SEPTIC TANK WILL BE UTILIZED FOR THE NEW SEPTIC FIELD. A NEW 400 DOSING SEPTIC TANK SHALL BE INSTALLED IN THE APPROXIMATE LOCATION SHOWN ON THE SITE PLAN AND SIPHON DOSED TO THE FIELD (TANK SPECIFICATIONS ATTACHED) IN 135 GALLON INCREMENTS. THIS SIPHON DOSING TANK WILL DOSE TO THE FIELD, ±25' OF ELEVATION DROP PROVIDES SUFFICIENT PRESSURE FOR EQUAL DISTRIBUTION.
- 2. THE EXCAVATOR HAS THE ABILITY TO CHANGE THE CONFIGURATION OF THE BED AS LONG AS THE SAME OR MORE SQUARE FOOTAGE IS MAINTAINED AND THE EXTENTS OF THE BED DO NOT ENCROACH UPON ANY SETBACK FEATURES.
- SOIL TESTS WERE PERFORMED ON THE SOILS FROM BOTH PROFILE HOLES, BOTH UPPER LAYERS WERE DETERMINED TO BE LOAMY SAND - USDA SOIL TYPE 1, SAID SOIL TYPE WHICH CARRIES A LONG TERM ACCEPTANCE RATE OF 0.8 GAL/SF/DAY. ALTHOUGH SAND FILTER MEDIA IS BEING ADDED TO RAISE THE INFILTRATIVE SURFACE ABOVE THE RESTRICTIVE LAYER, THE MORE RESTRICTIVE LTAR OF LOAMY SAND IS USED FOR FIELD SIZING - USING 1.0 POR 6/22/18 Ca/C
- sheet 4. THE EXISTING MATERIAL IS TO BE RIPPED AND 36" OF SAND FILTER MEDIA SHALL BE ADDED ON TOP OF THE RESTRICTIVE LAYER TO PROVIDE SUFFICIENT INFILTRATIVE DEPTH OF 36" TO THE RESTRICTIVE LAYER (IN THIS CASE THE RESTRICTIVE LAYER IS HIGHLY DECOMPOSED GRANITE - USDA TYPE 0 SOIL).
- 5. A REPERC TEST IS NOT REQUIRED, ADDED MATERIAL USED MUST MEET THE SPECIFICATIONS OF SAND FILTER MEDIA.

STANDARD REQUIREMENTS:

- 1. MUST MAINTAIN A MINIMUM OF 3' OF SUITABLE MATERIAL UNDER THE GRAVEL BED. A MINIMUM OF 10" OF COVER. MAXIMUM COVER OVER THE FIELD IS 1.5'.
- 2. SURFACE RUNOFF IS TO BE DIRECTED AROUND THE ABSORPTION BED.
- 3. A #4 REBAR IS TO BE PLACED NEXT TO THE PIPE JUNCTIONS, THE TOP OF THE REBAR IS TO BE AT OR ABOVE FINISH GRADE.
- 4. WHERE THE FINAL COVER OVER THE SEPTIC FIELD IS ABOVE PRE-EXISTING GRADE THE SIDE SLOPES OF THE COVER SHALL BE 3 TO 1 OR FLATTER.
- 5. VAN HORN ENGINEERING DID NOT CALL FOR OR PERFORM ANY UTILITY LOCATES ON-SITE, THIS IS THE RESPONSIBILITY OF THE CONTRACTOR OR PROPERTY OWNER.
- 6. MAINTAIN THE FOLLOWING ABSORPTION BED SETBACKS ON SITE:

20' TO HOUSE

10' TO ANY PROPERTY LINE

25' TO ANY POTABLE WATERLINE (OR SLEEVING WILL BE REQUIRED)

7. ALL OTHER BOULDER COUNTY HEALTH DEPARTMENT INSTALLATION/MATERIALS REQUIREMENTS ARE ALSO REQUIRED.

MAINTENANCE AND USE REQUIREMENTS:

1. THIS SYSTEM IS CLASSIFIED AS A "NON-TYPICAL SYSTEM" MEANING THAT SPECIFIC DESIGN AND CONSTRUCTION TECHNIQUES ARE NECESSARY FOR CONSTRUCTION. SAND MEETING THE REQUIREMENTS OF SAND FILTER MEDIA MUST BE ADDED TO BRING THE INFILTRATIVE SURFACE 36" ABOVE THE HIGHEST OBSERVED DECOMPOSED BEDROCK, A FINAL SYSTEM INSPECTION MUST BE CONDUCTED BY THE DESIGN ENGINEER.

IT IS IMPORTANT TO REALIZE THAT ANY SYSTEM CAN FAIL IF IT IS NOT PROPERLY USED AND MAINTAINED. THE OWNER SHOULD UNDERSTAND AND COMMIT TO THE FOLLOWING:

WATER CONSERVATION IS IMPORTANT RELATIVE TO THE AMOUNT OF WATER PUT THROUGH THE SYSTEM AT ANY GIVEN TIME. DON'T OVERTAX THE SYSTEMS ABSORPTION ABILITIES. PROCESSES THAT UTILIZE A LOT WATER (LAUNDRY, DISH WASHING, BATHING) SHOULD BE SPREAD OUT TO PROVIDE THE BED WITH DRYING TIME BETWEEN CYCLES.

REGULAR TANK PUMPING IS NECESSARY TO AVOID CLOGGING THE ABSORPTION FIELD. A BASIC RULE OF THUMB IS THAT THE SYSTEM SHOULD BE PUMPED EVERY THREE YEARS. THE OWNER SHOULD KNOW WHERE THE LIDS ARE AND KEEP

THEM UNOBSTRUCTED FOR READY ACCESS.

THE ABSORPTION BED AREA SHOULD BE KEPT CLEAR AND OPEN. TREES SHOULD NOT BE PLANTED WITHIN 10' OF THE EDGES, VEHICLE, ANIMAL, OR RECREATIONAL TRAFFIC OVER THE BED AREA SHOULD NOT BE ALLOWED TO AVOID OVER COMPACTING THE BED MATERIAL.

HARSH CHEMICALS, SOLVENTS, FATS AND GREASES SHOULD NOT BE ALLOWED TO BE DISCHARGED INTO THE SYSTEM.

THESE ITEMS WILL KILL BACTERIA IN THE SYSTEM.

2. THE OWNER SHOULD CHECK THE CONDITION OF THE FIELD AND SYSTEM COMPONENTS EACH YEAR AND FLOOR SHOULD BE MAINTAINED FREE OF EROSION, VARMINT INTRUSION AND THE SURFACE WELL VEGETATED AND THE STANDING WATER). BHOULD

			ALC: GALBALL
DRAWN	DATE	VAN HORN ENGINEERING	PROJ. NO.
TWB	6-22-18	1043 Fish Creek Road — Estes Park, CO 80517 Phone: (970) 586—9388 — vanhornengineering.com	NO SCALE 2016-04-16



VAN HORN ENGINEERING AND SURVEYING

1043 Fish Creek Road — Estes Park, CO 80517 Phone: (970) 586-9388

Murphy/Ries Septic Calculations

D Flow = Q for 3 brdroom house Q = 450 gpd

(I) Long Term Acceptance Rate = LTAR

for sand filter media in USDA Type 1
receiving soil, therefore use

LTAR= 1.0

(II) Bed Area = ABED = LTAR (flow) (factor)

flow factor for pressure dosing = 1.0

modia factor for gravel & pipe = 1.0

ABED = 450 (10) (10) = 450 s.f. required

construct a 10' : 45 gravel & pipe field

ABED = (10')(45') = 450 s.f. provided



JOB NAM	E: Murphy/	Ries	

JOB	NO.:	2016	-01	4-1	6	
			15055			

SHEET				1001
BY. TWI	B DATE	6	1221	1501
U1	DAIL.		1 44	

Blanchard, Gwendolyn (Wendy)

From:

Blanchard, Gwendolyn (Wendy)

Sent:

Friday, June 22, 2018 9:33 AM

To:

murphygenna@hotmail.com; tom@vanhornengineering.com;

lonnie@vanhornengineering.com

Subject:

17503 Hwy 7 MOUND

Importance:

High

Genna & Shawna,

I have CC'ed Tom and Lonnie from Van Horn on this email: Project 2016-04-16

The Van Horn Design specifies to use the top 18" of existing Type 1 sandy soil, and to put another 18" of ASTM-33 concrete sand on top of that. (See the CROSS SECTION page of the design. Also see item #4 on the CONSTRUCTION AND MAINTENANCE NOTES page). So yes that is a BIG MOUND.

The regulations do require 3-feet of absorption material. They are using 18-inches of the soil that is there plus 18-inches of sand which equals 36-inches which is 3-feet.

Since the bedrock layer is at 3-feet down below existing grade, another option you may wish to discuss with Van Horn would be removing ALL OF THE EXISTING SOIL down to 3-feet below existing grade and replacing all of it with ASTM-33 sand. That way you would not need such a big mound and the gravel layer could be placed at existing grade. I don't know if this would cost less or not – you will have to ask Van Horn and the installers.

An important item for Van Horn to know: They DO NOT NEED AND EXTRA 2 FEET OF BUFFER MATERIAL UNDER THE 3-FEET OF SAND.

- That was required in 2016 when Van Horn wrote up this design and that may be what they were trying to avoid by using less than 2-feet of sand.
- This regulation changed at the state level in June 2017 and since this design was submitted to BCPH AFTER that date, we will waive that requirement.

If, after discussing this with Van Horn, you wish to have them redesign this system, please have them submit a redesign to me and I will rewrite and reissue the permit.

Any of you are welcome to call or email me if you have questions.

Wendy

Wendy Blanchard, REHS

Boulder County Public Health (BCPH) Environmental Health Specialist Water Quality 3450 Broadway Boulder, CO 80304



LAND SURVEYING
SUBDIVISIONS
DEVELOPMENT PLANNING
IMPROVEMENT PLATS
STRUCTURAL ENGINEERING
SANITARY ENGINEERING
MUNICIPAL ENGINEERING

AN HORN ENGINEERING AND SURVEYING

1043 FISH CREEK ROAD * ESTES PARK, CO 80517 PHONE: (970) 586–9388 * FAX: (970) 586–8101

Individual Sewage Disposal System Design

TRACT IN THE NW ¼ OF S32-T3N-R72W OF THE 6th P.M., BOULDER COUNTY, STATE OF COLORADO.

OWNER/ADDRESS:

Genna Murphy and Shauna Ries

17503 Highway 7 Allenspark, CO 80510

BUILDING CONTRACTOR:

N/A

SYSTEMS CONTRACTOR:

T & G Enterprises 79 Big John Road Allenspark, CO 80540

BUILDING:

Existing 3 Bedroom House

WATER SUPPLY:

Existing Well

DEPTH TO BEDROCK:

36"

SOIL TYPE:

6" Sandy Topsoil

1'-0" USDA Type 1 Loamy Sand, Single Grain

1'-6" USDA Non-restrictive Type 0 Sand w/Highly Decomposed

Granite (>35%rock)

DEPTH TO GROUNDWATER:

None Found

SYSTEM TYPE:

Gravel and Pipe, Siphon Dosed Pressure System

SEPTIC TANK:

Existing 1000 Gallon Two Compartment Tank and New 400 Gallon Siphon Dosing Tank, Pressurized (±25' Elev. Drop Tank to Field, Sufficient Pressure for Equal Distribution)

CALCULATIONS:

USDA Soil Type 1 LTAR = 0.8 gal/s.f.

Q = 3 bedrooms = 450 gpd

A Bed = 450(1.0)(1.0)/0.8= 562.5 s.f. required construct a 10'x56.5' gravel and pipe septic field

Area of Bed = 565.0 s.f. provided

Lonnie A. Sheldon,
PE & PLS #26974

An open hole inspection is NOT required. A reperc test is NOT required, 18" of material meeting the specifications

of sand filter media must be used

DRAWN DATE
TWB 6-22-16

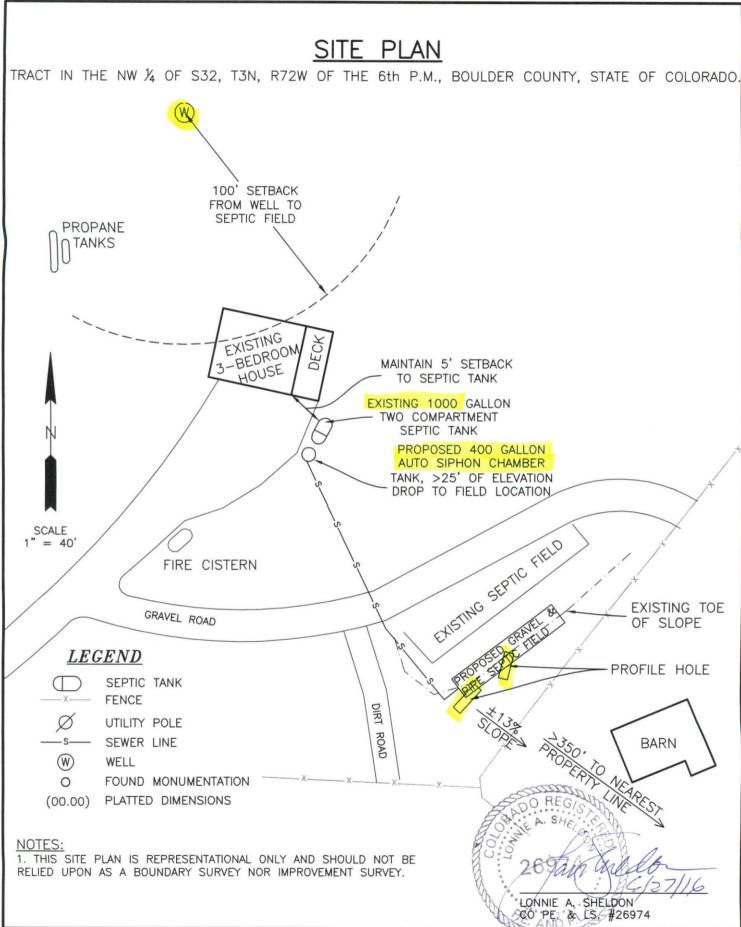
VAN HORN ENGINEERING

1043 Fish Creek Road — Estes Park, CO 80517

Phone: (970) 586-9388 — vanhornengineering.com

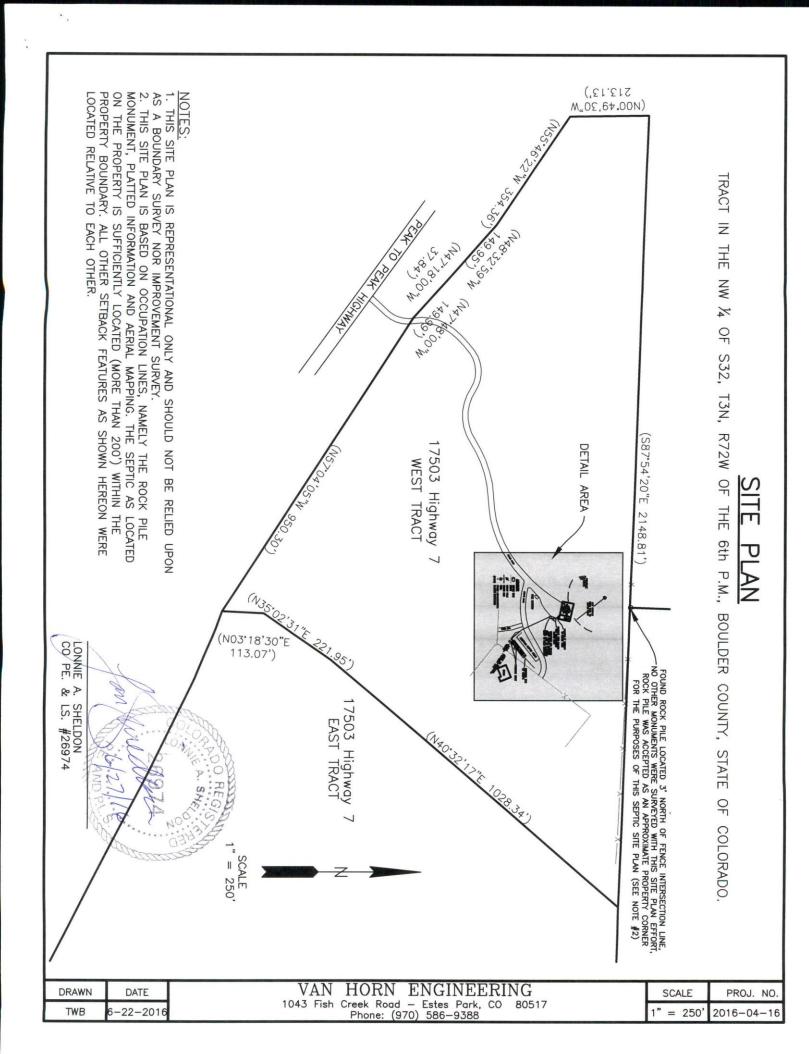
SCALE PROJ. NO.

ng.com NO SCALE 2016-04-16



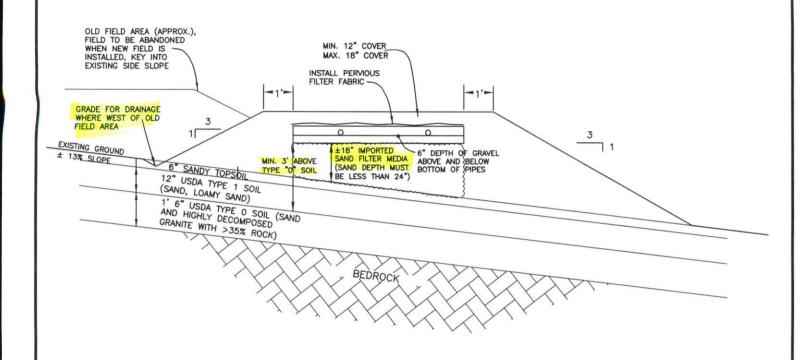
 DRAWN
 DATE
 VAN HORN ENGINEERING
 SCALE
 PROJ. NO.

 TWB
 6-22-16
 1043 Fish Creek Road - Estes Park, CO 80517 Phone: (970) 586-9388
 1" = 40' 2016-04-16

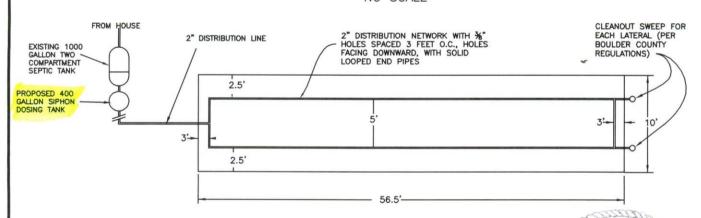


STANDARD GRAVEL AND PIPE DESIGN

BED CROSS-SECTION
NO SCALE



BED PLAN VIEW NO SCALE



CO PE. & LS. #26974

DRAWN	DATE	
TWB	6-22-16	

VAN HORN ENGINEERING

1043 Fish Creek Road — Estes Park, CO 80517
Phone: (970) 586-9388 — vanhornengineering.com

SCALE PROJ. NO.

NO SCALE 2016-04-16

HOLE LOG

WEST HOLE

1' 6" TOPSOIL 1' (SAND, LOAMY SAND) 2' 1/ 6" USDA SOIL TYPE O SAND W/HIGHLY DECOMPOSED GRANITE > 35% ROCK BEDROCK

5′ ———

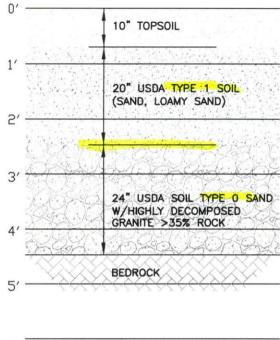


7'				

8'			

Q'			
)			

EAST HOLE







DRAWN	DATE	VAN HORN ENGINEERING	SCALE	PROJ. NO.
TWB	6-22-16	1043 Fish Creek Road — Estes Park, CO 80517 Phone: (970) 586—9388 — vanhornengineering.com	NO SCALE	2016-04-16

9'

VAN HORN ENGINEERING AND SURVEYING

1043 Fish Creek Road — Estes Park, CO 80517 (970) 586—9388 — Fax: (970) 586—8101 — vhe@airbits.com

Murphy Septic Calculations

(1) Flow = Q A+ 3 bedrooms Q= 450gpel

(I) LTAR = Long Term Acceptance Rate

Soil depth of acceptable USDA Type | Soil
was 18". 18" of sand filter media is to be
added to axisting material, use LTAR
of limiting layer LTAR = 0.8

ID Bed Area = ABED = Q (flow factor) (media factor)

use gravel & pipe media => 1.0 media factor
use siphon dose (paggure) flow => 1.0 flow factor

ABED = $\frac{450}{0.8}(1.0)(1.0) = 562.5 \text{s.f. required}$

construct a 10' x 56.5' gravel & pipe field

ABED = (10')(56.5') = 565 s.f. provided



JOB NAME:	JOB NO.:
	SHEET OF
	BY: DATE:

CONSTRUCTION AND MAINTENANCE NOTES:

UNIQUE REQUIREMENTS FOR THIS DESIGN:

- 1. THE EXISTING 1000 GALLON TWO COMPARTMENT SEPTIC TANK WILL BE UTILIZED FOR THE NEW SEPTIC FIELD, A NEW 400 DOSING SEPTIC TANK SHALL BE INSTALLED IN THE APPROXIMATE LOCATION SHOWN ON THE SITE PLAN AND SIPHON DOSED TO THE FIELD (TANK SPECIFICATIONS ATTACHED) IN 135 GALLON INCREMENTS. THIS SIPHON DOSING TANK WILL DOSE TO THE FIELD, ±25' OF ELEVATION DROP PROVIDES SUFFICIENT PRESSURE FOR EQUAL DISTRIBUTION.
- 2. THE EXCAVATOR HAS THE ABILITY TO CHANGE THE CONFIGURATION OF THE BED AS LONG AS THE SAME OR MORE SQUARE FOOTAGE IS MAINTAINED AND THE EXTENTS OF THE BED DO NOT ENCROACH UPON ANY SETBACK FEATURES.
- SOIL TESTS WERE PERFORMED ON THE SOILS FROM BOTH PROFILE HOLES, BOTH UPPER LAYERS WERE DETERMINED TO BE LOAMY SAND - USDA SOIL TYPE 1, SAID SOIL TYPE WHICH CARRIES A LONG TERM ACCEPTANCE RATE OF 0.8 GAL/SF/DAY. ALTHOUGH SAND FILTER MEDIA IS BEING ADDED TO RAISE THE INFILTRATIVE SURFACE ABOVE THE RESTRICTIVE LAYER, THE MORE RESTRICTIVE LTAR OF LOAMY SAND IS USED FOR FIELD SIZING.
- 4. THE EXISTING MATERIAL (18" OF SUITABLE SOIL IS TO BE UTILIZED UNDER THE BED AREA), THE ORGANIC MATERIAL SHALL BE REMOVED FROM THE TOPSOIL AND 18" TO 23" OF SAND FILTER MEDIA SHALL BE ADDED ON TOP OF THE EXISTING MATERIAL TO PROVIDE SUFFICIENT INFILTRATIVE DEPTH OF 36" TO THE RESTRICTIVE LAYER (IN THIS CASE THE RESTRICTIVE LAYER IS HIGHLY DECOMPOSED GRANITE - USDA TYPE O SOIL). 18" OF SAND FILTER MEDIA IS TO BE ADDED ON THE MOST UPHILL CORNER OF THE BED AREA, THEREFORE SAND ADDED ON THE MOST DOWNHILL CORNER OF THE BED AREA WILL BE APPROXIMATELY 22" GIVEN THE EXISTING SLOPE. IN NO CASE SHALL MORE THAN 23" OF SAND BE ADDED.
- A REPERC TEST IS NOT REQUIRED, ADDED MATERIAL USED MUST MEET THE SPECIFICATIONS OF SAND FILTER MEDIA. NO MORE THAN 23" OF SAND FILTER MEDIA MAY BE ADDED.

STANDARD REQUIREMENTS:

- 1. MUST MAINTAIN A MINIMUM OF 3' OF SUITABLE MATERIAL UNDER THE GRAVEL BED. A MINIMUM OF 10" OF COVER. MAXIMUM COVER OVER THE FIELD IS 1.5'.
- 2. SURFACE RUNOFF IS TO BE DIRECTED AROUND THE ABSORPTION BED.
- 3. A #4 REBAR IS TO BE PLACED NEXT TO THE PIPE JUNCTIONS, THE TOP OF THE REBAR IS TO BE AT OR ABOVE FINISH GRADE.
- 4. WHERE THE FINAL COVER OVER THE SEPTIC FIELD IS ABOVE PRE-EXISTING GRADE THE SIDE SLOPES OF THE COVER SHALL BE 3 TO 1 OR FLATTER.
- 5. VAN HORN ENGINEERING DID NOT CALL FOR OR PERFORM ANY UTILITY LOCATES ON-SITE. THIS IS THE RESPONSIBILITY OF THE CONTRACTOR OR PROPERTY OWNER.
- 6. MAINTAIN THE FOLLOWING ABSORPTION BED SETBACKS ON SITE:

20' TO HOUSE

10' TO ANY PROPERTY LINE

25' TO ANY POTABLE WATERLINE (OR SLEEVING WILL BE REQUIRED)

7. ALL OTHER BOULDER COUNTY HEALTH DEPARTMENT INSTALLATION/MATERIALS REQUIREMENTS ARE ALSO REQUIRED.

MAINTENANCE AND USE REQUIREMENTS:

1. THIS SYSTEM IS CLASSIFIED AS A "NON-TYPICAL SYSTEM" MEANING THAT SPECIFIC DESIGN AND CONSTRUCTION TECHNIQUES ARE NECESSARY FOR CONSTRUCTION. SAND MEETING THE REQUIREMENTS OF SAND FILTER MEDIA MUST BE ADDED TO BRING THE INFILTRATIVE SURFACE 36" ABOVE THE HIGHEST OBSERVED DECOMPOSED BEDROCK. A FINAL SYSTEM INSPECTION MUST BE CONDUCTED BY THE DESIGN ENGINEER.

IT IS IMPORTANT TO REALIZE THAT ANY SYSTEM CAN FAIL IF IT IS NOT PROPERLY USED AND MAINTAINED. THE OWNER SHOULD UNDERSTAND AND COMMIT TO THE FOLLOWING:

WATER CONSERVATION IS IMPORTANT RELATIVE TO THE AMOUNT OF WATER PUT THROUGH THE SYSTEM AT ANY GIVEN TIME. DON'T OVERTAX THE SYSTEMS ABSORPTION ABILITIES. PROCESSES THAT UTILIZE A LOT WATER (LAUNDRY, DISH WASHING, BATHING) SHOULD BE SPREAD OUT TO PROVIDE THE BED WITH DRYING TIME BETWEEN CYCLES.

REGULAR TANK PUMPING IS NECESSARY TO AVOID CLOGGING THE ABSORPTION FIELD. A BASIC RULE OF THUMB IS THAT THE SYSTEM SHOULD BE PUMPED EVERY THREE YEARS. THE OWNER SHOULD KNOW WHERE THE LIDS ARE AND KEEP

THEM UNOBSTRUCTED FOR READY ACCESS.

THE ABSORPTION BED AREA SHOULD BE KEPT CLEAR AND OPEN. TREES SHOULD NOT BE PLANTED WITHIN 10' OF THE EDGES, VEHICLE, ANIMAL, OR RECREATIONAL TRAFFIC OVER THE BED AREA SHOULD NOT BE ALLOWED TO AVOID OVER COMPACTING THE BED MATERIAL.

HARSH CHEMICALS, SOLVENTS, FATS AND GREASES SHOULD NOT BE ALLOWED TO BE DISCHARGED INTO THE SYSTEM. THESE ITEMS WILL KILL BACTERIA IN THE SYSTEM.

2. THE OWNER SHOULD CHECK THE CONDITION OF THE FIELD AND SYSTEM COMPONENTS EACH YEAR. THE FIELD SHOULD BE MAINTAINED FREE OF EROSION, VARMINT INTRUSION AND THE SURFACE WELL VEGETATED AND FREE DRAINING (NO STANDING WATER).

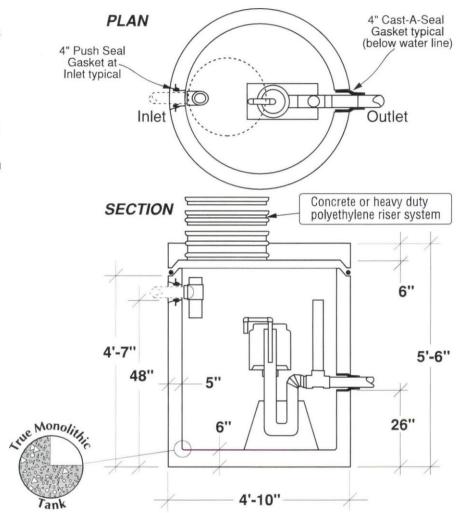
VAN HORN ENGINEERING DRAWN DATE SCALE PROJ. NO. 1043 Fish Creek Road - Estes Park, CO 80517 **TWB** 6-22-16 NO SCALE 2016-04-16 Phone: (970) 586-9388 - vanhornengineering.com

400 Gal. Single Auto Siphon Chamber

FLXX.

FLXX.

- Monolithic tank meets ASTM-C-1227 Spec. for water and wastewater structures.
- Butyl rubber sealant meets Fed. Spec. SS-S-210A. (Provided with tank)
- All plumbing shown in diagram is 4" SDR 35. (Provided with tank)



* Includes 200 lbs. siphon / foundation

Part #	Siphon /		Approximate Weights			
rait#	Disc	harge	Tank*	Lid	Total	
PCA-000-280	#413	100 Gal.	5 050 lba	1,520 lbs	6 570 lbs	
PCA-001-280	#417	135 Gal.	3,030 105		0,570 108	

Note: N.T.S.



Phone (303) 442-3207 • (800) 783-3207 • Fax (303) 442-3209

www.flxx.com



Public Health

TO:

Robin Scott Kerns, Staff Planner

Land Use Department

FROM:

Christopher Wallis

DATE:

November 9, 2007

RE:

Site Plan Review for Docket SPRW-07-093

Name of Property Owner:

Shauna Ries & Genna Murphy

Site Address: 17503 Highway 7

Legal Description of Property: S32, 3N, 72W

Boulder County Public Health issued a new permit for the installation of a standard system on 5/10/92. The permit was issued for an onsite wastewater system (OWS) adequate for a 3-bedroom house. Boulder County Public Health approved the installation of the OWS on 8/3/93.

The barn must be located a minimum of 20 feet from the absorption field. If sinks or toilets are installed in the barn, wastewater must be disposed of in an approved onsite wastewater system (OWS) and a permit from Boulder County Public Health will be required. The OWS must meet current regulations. Heavy equipment should be restricted from the surface of the absorption field during construction of the barn to avoid soil compaction, which could cause premature absorption field malfunction.

cc: Shauna Ries & Genna Murphy

www.co.boulder.co.us/health

RECEIVED

Area 1 ON 51177

June 7, 2018

KEY

Boulder County Public Health

AUG 0 6 2018 ONSITE WASTEWATER TREATMENT SYSTEM (OWTS)

ENVIRONMENTAL, HEALTH

Property Transfer Inspection ReportFEE

HEALTH	CKIE
Name of Owner: Ries Shauna M & Genna C Muyahy	Date of Inspection: 8-7-2018
Inspection Ordered By: Genna Murphy	Name of Inspector: Robert D. Broadwell
Site Address: 1750.7 Highway 7 Lyons CO 80540	Inspector's Certification No: 12833ITC
Owner's Phone: 303-747-8887	Inspector's Address: PO Box 3077 Nederland CO 80466
Property Legal Description: * See helm	Inspector's Phone: 720-514-9703
Send Inspection Report To: Genna Murchy	Inspector's E-mail: ColoradoSeptic@gmail.com
Mailing or Email Address: 9Cm@ mwbdr.com	
Size of Property (i.e. # of acres): 60.64 acres	
Type of Existing Building or Structure (if commercial, list all us	ses or tenants):
	oarn
*	
I. GENERAL INFORMATION (TO BE COMPLETED AND SIGNE	
1. Age of OWTS: Tank(s) ZS years Absorption Bed	I(s) \(\leq \) years Other \(\leq \) years
2. Water Softener	☑No
Garbage Disposal ✓ Yes	□No
Grease Trap ☐ Yes	12 No
3. Residential ☑ Yes	_I □ Ņo
Commercial	⊠No
Flow Meter	ſ ⊆ Łνο
In-Home Business	☑No Type:
4. BEDROOMS : Number counted in structures	/
Number Listed on OWTS Permit 3	
Number Listed in Assessor Record 3	_
Is House Currently Unoccupied?	☑ No How long?
5. Has a sewage backup ever occurred?	and dosma tank 7/2018
6. List any known repairs to system new field	and dosing tank 7/2018
7. Is there a service contract for system components?	res No Company:
8. Date septic tank last pumped prior to this inspection: 5	-22-18 Frequency: J-4 years
Company: Johnstown (Attach pumping receipt)	The second secon
9. Water supply supplied by a well?	□ No
10. Potability test sample of well taken? ☐ Yes	2No
Potability test results:	FAIL
(NOTE: A pass or fail here does not indicate a pass/fail t	for the inspection)
NOTE: Property Transfer Renewals will no longer be ac	cepted.
The above information is true to the best of my knowledge	2.
UM I	1 1.2
Owner/Legal Agent:	Date: 8/3//8
	′ /
(1)	

Inlet: concrete 24" rises to surface 11. SYSTEM TYPE: Components of OWTS (complete as required) Outlet: plastic Fralo viser 24= w/three 1. Pretreatment (Septic Tank) Unit 1: Type Concrete Manufacturer Erre Z compart ment Pump Tank 1: NA Capacity (gal Plastic Fralo plastie offer to surface Pretreatment/Treatment Unit 2: Type Concrete Manufacturer Pump Tank 2: NA Capacity (gal) Soil Treatment Unit: Vault (see instructions) Manufacturer Capacity (gal) **Warning Device** ☐ PASS ☐ FAIL Pumping Receipts (vault only) ☐ Yes ☐ No Location of warning device: 7. Additional Components: 8. Greywater Discharge (if separate from OWTS): ✓ None ☐ Surface ☐ Subsurface ☐ Tank **□** PASS ☐ FAIL III. EVALUATION PROCEDURES 1. Number of bedrooms counted in house: Are there other structures with plumbing? **□YES** TANO (If "YES", all structures must be verified as connected to the OWTS and approved to be connected from BCPH permit records. If they are not, the report is a failing inspection and must be noted as "Unacceptable" with comments on inspection results of OWTS-Item #16) Number of bedrooms doesn't exceed OWTS record: PASS ☐ FAIL 2. Locate, access, and open the septic tank cover: PASS ☐ FAIL 3. If at grade, is tank cover secure? PASS ☐ FAIL Can surface water infiltrate into tank(s)? No/PASS ☐ Yes/FAIL Any indicators of previous failure? ☐ Yes ☑ No Inspect lid; measure sludge and scum level: ☐ Yes □ No Inspect effluent screen (if applicable): ☑ Yes ☐ No Is there a diverter valve installed (multi-bed system)? ☐ Yes ☑ No If there is a diverter valve, is it operational? ☐ Yes/PASS □ No/FAIL NA 10. Run an operation test (all beds if multiple-bed system): a. Gallons added in the operation test: 100 gallons b. Does water backflow into tank? No/PASS ☐ Yes/FAIL 11. Pump out primary treatment (septic) tank: Yes ☐ No/FAIL a. How many gallons? 1460 gallons 1000 Gal +400 Gal 12. Inspect the condition of the septic tank: PASS ☐ FAIL a. Inspect condition of inlet and outlet baffles ☑ Yes □ No b. Comments (cracks, deterioration, infiltration, or damage): Minim 13. Does the system contain dosing or pump tank, ejector, and tank: new or grinder pump or an Advance Treatment Unit (ATU)? ☑ Yes □ No a. If so, was the condition of the tank checked? ☑ Yes ☐ No Comments: b. Is the pump elevated off the bottom of the tank? ☐ Yes □ No □ NA Does the pump work? ☐ Yes/Pass □ No/Fail d. Is there a check valve or purge hole present? ☐ Yes □ No □ NA e. Is there a high water alarm? ☐ Yes ☐ No □ NA f. Does the alarm work? ☐ Yes/Pass ☐ No/Fail □ NA

g. Type of alarm:h. Do electrical connections appear satisfactory?	☐ Audio ☐ Yes	□ Visual □ No	☐ Both	NA
i. Was the pump/ATU tank cleaned?	☐ Yes/Pass	☐ No/Fail		1
j. If an ATU, is the motor working?	☐ Yes/Pass	□ No/Fail		.1.
 If an ATU, is there a current operation & mainte 	nance agreement	in place? [] Ve	. I No	V/
		in piace: La re:	סאו רדי י	V
14. Was the soil treatment area probed to determine its local	tion			
and to check for excessive moisture, odor, and/or efflue	nt? PTyes	□ No		
a. Any area subject to serious erosion?	☐ Yes	☑ No		
b. Any area subject to compaction?	□ Yes	⊠ No ⊠ No		
c. Any indication of previous failure?	☐ Yes	☑ No		
d. Seepage visible on the surface of the field?	PASS	☐ FAIL		
e. Is improper vegetation present?	☐ Yes	No		
f. Heavy saturation in the distribution media?	□ Yes	Ø No		
g. Even distribution of effluent in the field?	☐ Yes			
h. Snow cover over the absorption area?	☐ Yes	□ No		
i. Irrigation present on absorption area?		[2] No		
and a second of absorption aleas	☐ Yes	☑No		
15. Distance between water well and soil treatment area:	100+	_Feet		
16. Inspection results of OWTS:				
Acceptable (no repairs required)				
Unacceptable (repairs required)				
☐ Repairs required				
Photo Documentation required for of all instances of	malfunctions/failu	record of any	AND THE PERSON NAMED OF THE	69
	all trees a fanks (all ther ever	compartine	ntr eve	P
☐ Complete system replacement required. Explain:				
☐ Further exploratory work is required. Explain:				
			4.000	
IV. SKETCH OF SYSTEM	No. No. Inc.			
Make an accurate sketch of the entire system that shows a	north arrow, the	location of the	dwelling or	
structure(s) with two triangulated distance measurements to	o the septic tank	lid(s) or GPS co	ordinates	
include sewer location to structure, septic tank(s), lift station,	and soil treatment	t area. Include a	pertinent	
setback locations, such as lakes, rivers, irrigation ditches, and v	vater wells.		. 60.00.00.00	
Note: BCPH will NOT ACCEPT final drawings from existin	g OWTS permits	•		
	_ •			
By signing this form, I hereby verify that I am a NAWT or NSF-ce inspection of this property.				
Certified Inspector Signature:	>	C Date: 8	1-3-21	218

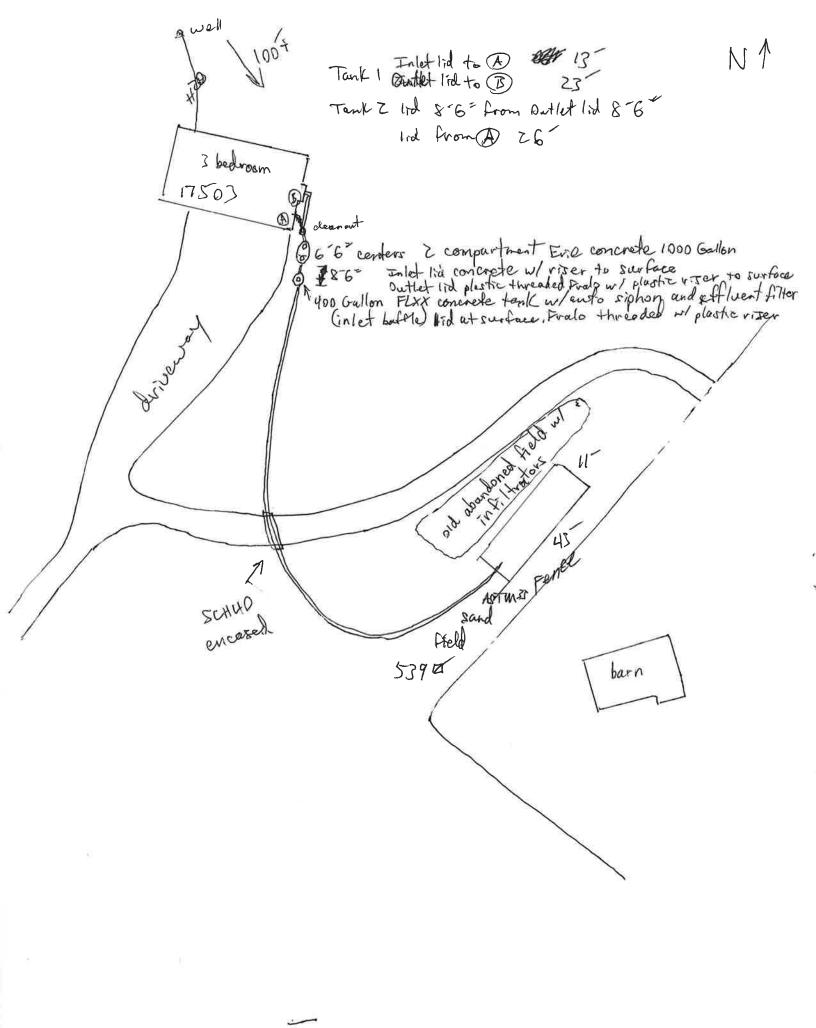
Nº 76 DATE: <u>Б-∂</u> FRUCK: <u>⊅</u> ∠	2-18	Josephila Service	JOHN S A N I T	STON	ЛОНИ	LOVELAND 970-66	OX 7816 D, CO 80537 57-5405 TION@GMAIL.COM
BILLING INFO NAME: STREET ADDR CITY, STATE, 2 PHONE NUM EMAIL:	RESS:	(Murphy 7 Hwy 7 Lyons			
	RESS:ZIP:	NSTRUCTIONS:		np every	5 yl	ars	
SEPTIC	VAULT	GALLONS	PAID	CHECK #		CREDIT CA	ARD
X		1000		4488			
		SERVIC	E DESCRIPTIO	N		2	TOTAL
Pumb	1000 ga	llons se	atic				#350=
Pump H	rough	inlet risc	21. 00	tlet Not	visibl	e	
Tank 1	level in	licates 7	Field (nes are	works	hej.	
Custom	es flush	d, main	line o	hes are clear.		0	
ANK AND ACC		toward of sie	garage	, 2 hoses	arou	nd Fre	ent of
710	ica, jni	et liber.	0				

Make all checks payable to Johnston Sanitation. P.O. Box 7816, Loveland, CO 80537

THANK YOU FOR YOUR BUSINESS!

For additional information about care and maintenance of septic systems, please visit: www.johnstonsanitation.com

Thanks, Fran





Property Report for Account R0057286

Today's Date: 8/6/2018



Property Address: 17503 HWY 7

City: UNINCORPORATED

Owner: RIES SHAUNA M & GENNA C MURPHY

Parcel Number: 119932000004

Mailing Address: 17503 HIGHWAY 7

City, State, Zip: LYONS CO, 80540

Sec-Town-Range: 32 -3N -72

Subdivision: TR, NBR 960 ALLENSPARK AREA

Jurisdiction: Unincorporated Boulder County

Legal Description: 61.16 ACS M/L NW 1/4 32-3N-72 PER DEED 1925812 4/8/99 BCR

Square Feet: 2,641,474

Acres: 60.64



Assessment Report for Account R0057286

Today's Date: 8/6/2018

Account

Account Number:

R0057286

Parcel Number:

119932000004

Tax Area:

001350

No. of Improvements:

2

Site Address:

17503 HWY 7

Neighborhood:

ALLENSPARK

Total Account Value

Actual Assessed

Total:

11781 106400

Structure:

11549 105600

Land:

232

X-Features:

0

MillLevy:

63.681

800

0

Improvements

Section:

Class:

FARM/RANCH RESIDENTIAL IMPROVEMENTS

Built:

1994

Design:

2 - 3 STORY

Number of rooms:

Total:

7

Bedrooms:

3

Full Bath:

1

3/4 Bath:

1

2ND FLOOR AND HIGHER FINISHED AREA	682
WALK-OUT BASEMENT FINISHED AREA	651
BASEMENT GARAGE AREA	620
DECK AREA	782

Section:

2

Class:

OTHER BLDGS.-AGRICULTURAL

Built:

2003

Design:

GENERAL PURPOSE BARN

Number of rooms:

Total: 0
Bedrooms: 0
Full Bath: 0
3/4 Bath: 0
Half Bath: 0

Areas of levels in sq. ft.

GENERAL PURPOSE BARN

976

PROPERTY TRANSFER CERTIFICATE OF OPERATION

is hereby granted to the property located at:

17503 HWY 7 Lyons, CO 80540

Parcel Number

119932000004

Indicating that the onsite wastewater treatment system has been inspected and approved for continued operation in accordance with the Boulder County Public Health Onsite Wastewater Treatment System (OWTS) Regulations.

Date Issued:

08/07/2018











Joe M.Malinowski, Environmental Health Division Manager

Certificate is not valid unless accompanied by the complete Property Transfer Inspection Report approved by BCPH. This certification shall remain valid from the date it is issued for a period of 1 year, or until the real estate closing, whichever comes first. The issuance of this Certificate of Operation is based solely on the conditions observed on the date of inspection and from Boulder County Public Health (BCPH) at the time the certificate was issued. Therefore, it may not represent the current operational status of the system, or any BCPH inspections conducted after the issuance of this Certificate.

,	
New	Receipt Number 7575
Addition 3450 Broadway, Renewal Change of Owner APPLICATION AND PERMIT TO INSTALL SEWAGE DISPOSAL SY	HEALTH DEPARTMENT Boulder, CO 80304 1-1190 -, CONSTRUCT, ALTER OR REPAIR INDIVIDUAL YSTEM (SEPTIC TANK) BE DEPARTMENT (COUNTY BUILDING INSRIDERT.)
Owner John Miller Mail City Denuel, Co. State Co. Zip 60301 Agent Cheis Kundta. Street P.O. Box 845 Site Address 17503 Highway 7, Allens DARL Legolus Descriptions (Strong on 1870) 14, 5602300 TO BE FILLED OUT BY APPLICANT	Home Phone 460: 9506 Work Phone 499-7707 City Phone 586-9447 Installer N3N/19672WT
1. Existing Buildings	DEPARTMENT USE ONLY 1. Slope
DETAIL DIRECTIONS TO PROPERTY N W = E S Approx. I'a miles southwow Hwy7. Derve & gate on Enot side of Road ('Miller's ign on Gate).	SEE Engineers Design. W
Owner Signature (Authorized Agent)	Date 5/6/93.

DEPARTMENT USE ONLY

Permission is hereby granted to the owner or his agent to perform the work indicated below in accordance with the Boulder County 1.S.D.S. Regulations. This permit is to remain in full force for one year from date, unless revoked for non-compliance. Plans and specifications of proposed sewage-disposal system when reviewed and attached to this permit have been considered satisfactory. Approval is given if this building site meets existing Zoning and/or Subdivision regulations of Boulder County as they apply in this specific case.

- MINIMUM REQUIREMENTS -592/raised Infiltratorft., OR 1000 Absorption Field Septic Tonk /// 111 Vault feet of trench three feet wide. Install 111 Other No one trench/line may exceed 100 feet. Install system according to Rocky Mountain Consultants design # 9-2332.001.00. System must be installed by licensed Boulder County installer. Install 24 Infiltrator units as called for by RMC. Bottom of Infiltrators must be at least 1' above original grade on uphill side of field. RMC to determine suitability of all fill material. System must be at least 200' from well. System must be inspected by BCHD and RMC prior to backfilling and final approval.

Authorized Signatures Roy Bay	Approved by Board of Health
Owner or Agent Otto Number 123 Marie Rec. 7.22-93	Permit Date 5-10-92 DateX 5-/2-93 Final despection 7-/9-93
Final Approval 8-3-93 (Health Otisier	Final Inspection 7-19-43 Sanitorian Signature)

TO OWNER: Leave entire sewage-disposal system uncovered for final inspection. A final inspection is required for all system installations unless otherwise specified. THE HEALTH OFFICER SHALL ASSUME NO RESPONSIBILITY IN CASE OF FAILURE OR INADEQUACY OF A SEWAGE DISPOSAL SYSTEM BEYOND CONSULTING IN GOOD FAITH WITH THE PROPERTY OWNER OR REPRESENTATIVE.

SEWAGE DISPOSAL SYSTEM FINAL INSPECTION

Boulder County Health Department

NAME Miller, John
LEGAL DESCRIPTION 17503 Hwy 7
INSTALLER
System Installed in area of tests Yes Distribution Box Comcrete Water Leveled Yes Distribution Lines NA Capped Infiltratures Slope O Type of Grouting Ramneck goop Depth of Gravel NA Paper/Straw NA Septic Tank/Aeration Unit Construction Jooo Ballon Company Eric Size Meets Minimum Requirements Yes Distance to Wells > 200' Distance to Streams/Ditches NA Depth of Fill Under System J' Adequate Shoulder Yes Depth of System Ballom of Infiltratures J' above original grade Other
SCHEMATIC OF SYSTEM (Location, House, Direction, Distances) (NO Inspection Pipe) 2 naces of 12 Intilhanters Slove Slove 1 2'riser 104.5' North North
APPROVED Pending Rec. 4-12-93 DENIED REASON Approved pending RPE letter
DATE 7-20-93 Roy Bay Inspected By

INDIVIDUAL SEWAGE DISPOSAL SYSTEM

3 bedrooms

FIELD WORK SHEET
APPLICANT John Miller
LOCATION T3N, R72N Sec. 32 17503 Hung 7 Allanspark (Legal & Specific Area)
TYPE OF SYSTEM REQUESTED Raised bed
SANITARIAN RECOMMENDATION: Approval Denial Reason
FIELD INSPECTION: Date 5-10-93 Sanitarian Roger Band
1. Perc Rate 10 MPI Design 2. Soil Type Sandy Loan 3. Slope 10-15% 4. Groundwater Depth >3.5' 5. Bedrock Depth 3.5'
6. Water Supply Pvt 7. Distance to Water Lines 25 min.
8. Lot Size 6 ac 9. Structure Proposed Single Family Res
10. Distance to Waterways & Gulleys > 100' 11. Density <u>Loω</u>
12. Area for Expansion Yes 13. Distance to Wells 200'min
14. Municipal Sewer Availability >1mile 15. History of Area
Sanitarian Comments
PLOT OF SITE (include all pertinent features): **Signature **Oroposed House 4' deep

3/79 - 201