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Board of Health Agenda  
Tuesday, February 18, 2025

1. Request Chairman's signature on site location application form to the Colorado Department of Public Health and Environment (CDPHE) from the Town of Carbondale for improvements to the Wastewater Treatment Facility located in the Town of Carbondale – Edward R. "Ted" White, P.E., Environmental Health Specialist III
2. Public Hearing to consider variance requests to the Garfield County On-Site Wastewater Treatment System (OWTS) Regulations for an improved OWTS at 112 Navajo Street near New Castle – Edward R. "Ted" White, P.E. (Garfield County Public Health), Graham Jackson (Garfield County Assistant Attorney), Donnie McCarthy (homeowner), and Carla Ostberg (CBO, Inc.)

**Public Health**

**Board of Health Report  
Monday, February 18, 2025**

**Town of Carbondale Wastewater Treatment Facility Redundant Screw Press Site Application:**

Signature approval for Town of Carbondale’s Wastewater Treatment Facility Redundant Screw Press Site Application. The Town of Carbondale proposes to install a new screw press and conveyance system to provide redundancy within the solids handling treatment train at the Town of Carbondale Wastewater Treatment Facility. The proposed project will not increase the permitted hydraulic or organic capacity of the WWTF, nor impact the liquid or solids stream treatment process. The proposed screw press is the same model and capacity as the existing screw press in the WWTF. Only one crew press will operate at a time. This project will allow the Town to alternate which screw press is in use and will allow for easier maintenance and redundancy in the event of an emergency or failure of one of the screw presses as occurred several years ago. - Edward R. “Ted” White, P.E., Garfield County Public Health

**Variance Request from Setback Distances for OWTS Components at 112 Navajo Street near New Castle, Colorado:**

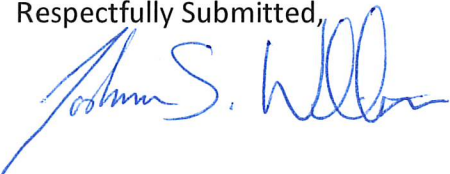
Approval of Variance request from Setback Distances for OWTS Components at 112 Navajo Street near New Castle, Colorado. The property owner wishes to improve the existing, slow-draining OWTS to create an alternating OWTS consisting of two seepage pits. The new seepage pit will be along Navajo Street and will encroach upon several setbacks that are required in the Garfield County Onsite Wastewater Treatment System Regulations. Specifically, the new seepage pit will require a variance from the setback from the north and west property lines, a variance from the setback requirement from the manufactured home, and a variance from the water shut off valve and a 5 foot length of the water service line. - Donnie McCarthy (property owner), Carla Ostberg (OWTS designer), Graham Jackson (Garfield County Assistant Attorney), and Edward R. “Ted” White, P.E. (Garfield County Public Health)

**Public Health Report:**

**Contracts/Agreements signed by Public Health Director**

No contracts/agreements signed this month.

Respectfully Submitted,



Joshua Williams,  
Public Health Director

## **Memorandum to the Board of County Commissioners**

**Board Meeting Date:** 02/18/2025

**Prepared By:** Edward R. "Ted" White, P.E., Garfield County Public Health

**Presented By:** Edward R. "Ted" White, P.E., Garfield County Public Health

**Subject:** Town of Carbondale Wastewater Treatment Facility Redundant Screw Press Site Application

**Summary:** The Town of Carbondale proposes to install a new screw press and conveyance system to provide redundancy within the solids handling treatment train at the Town of Carbondale Wastewater Treatment Facility. The proposed project will not increase the permitted hydraulic or organic capacity of the WWTF, nor impact the liquid or solids stream treatment process. The proposed screw press is the same model and capacity as the existing screw press in the WWTF. Only one crew press will operate at a time. This project will allow the Town to alternate which screw press is in use and will allow for easier maintenance and redundancy in the event of an emergency or failure of one of the screw presses as occurred several years ago.

**Recommendation:** GCPH recommends the Board of Health authorize the Chairman to sign the applications for submittal to CDPHE.

**Necessary Board Action:** Make a motion to authorize the Chairman to sign the Application as the County Representative and the Local Health Authority.



**Regulation 22 Site Location Application Form  
Section 22.10 - Amendment of Existing Treatment Plant Site Location Approval**

A. Project and System Information						
System Name	Town of Carbondale Wastewater Treatment Facility (WWTF)					
Project Title	Redundancy Screw Press Installation					
County	Garfield					
CDPS Permit No.	COG590050					
Date Fee Paid or payment attached		Invoice Number and Check Number				
Design Company Name	Roaring Fork Engineering					
Design Engineer	Maggie McHugh	CO License Number	0057511			
Address	592 Highway 133					
	Carbondale, CO 81623					
Email	maggiem@rfeng.biz	Phone	970-340-4130			
Applicant/Entity	Town of Carbondale					
Representative Name	Scott Wenning					
Address	071 Hwy. 133					
	Carbondale, CO 81623					
Email	swenning@carbondalecto.net	Phone	970- 510-1351			
B. Project Information						
<i>Location (existing or proposed site)</i>			<i>Proposed Project Design Capacity</i>			
Brief location description	The WWTF is located approximately 700 feet south of the Highway 82/133 intersection. It is bordered to the north by the Roaring Fork River, to the east by Highway 133, to the south by a mobile home park, and to the west by the Rio Grande trail.		Hydraulic Capacity (Maximum Month Average)	0.995 MGD		
Legal Description (e.g., Township, Range)	SE ¼, NW ¼, Section 28, Township 7 South, Range 88 West		Peak Hour Hydraulic Capacity	2.985 MGD		
County	Garfield		Organic Loading Capacity - Treatment Plant Only (Maximum Month Average)	2,248 lbs. BOD <sub>5</sub> /day or lbs. cBOD/day		
Latitude	39° 24'52" N					
Longitude	107° 13'28" W					
<b>Funding Process</b>	Will the State Revolving Fund (SRF) loan program be used to finance any portion of the project?	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	If yes, please list project number
Project Schedule and Cost Estimate						
Estimated Bid Opening Date	Spring 2025					
Estimated Completion Date	2025					
Estimated Project Cost	\$380,000					

Project and System Information	
System Name	Town of Carbondale Wastewater Treatment Facility (WWTF)
Project Title	Screw Press Installation
County	Garfield
Original Site Location Approval No. (attach copy of approval)	Site Application No. 4264
Date of Site Location Approval	6/10/1996
CDPS Permit No.	COG590050
CDPS Permit expiration date	2023

### 1. Type of Site Amendment

Changes in type of disinfection to include chlorine gas or from other types of disinfection to chlorination - Section 22.10(2)(a)(i).	<input type="checkbox"/>
Other changes in the type of disinfection - Section 22.10(2)(a)(ii).	<input type="checkbox"/>
Physical changes or additions to the liquid stream treatment processes that could impact hydraulic, pollutant(s), or solids loadings to the treatment process - Section 22.10(2)(a)(iii).	<input type="checkbox"/>
Physical changes or additions to the unit processes in the solids stream treatment processes that would change the characteristics of the recycle stream or biosolids - Section 22.10(2)(a)(iv).	<input type="checkbox"/>
Physical change to the treatment works that is similar in scope to those listed in Section 22.10(2)(a), but is not precisely covered by this list - Section 22.10(2)(a)(v).	<input checked="" type="checkbox"/>
A decrease or increase in the approved, rated design capacity of the treatment works, as long as no construction is to take place, or a change in the design flow portioning that does not change the design capacity - Section 22.10(2)(b).	<input type="checkbox"/>
The addition of, or increase of a treatment process to generate reclaimed domestic wastewater following secondary treatment at an existing treatment plant that has previously received site location and design approval, including treatment changes to achieve more restrictive reclaimed water categories and standards - Section 22.10(2)(c).	<input type="checkbox"/>
Change in the type of discharge employed from a surface water discharge to a ground water discharge, or vice-versa, at the same approved site location, subject to appropriate water quality planning targets Section 22.10(2)(d)(i).	<input type="checkbox"/>
Change in the type of discharge employed including a partial or complete change from a surface water or ground water discharge to reclaimed water use subject to the requirements in the Reclaimed Domestic Wastewater Control Regulation (5 CCR 1002-84) - Section 22.10(2)(d)(ii).	<input type="checkbox"/>

### 2. Site Amendment Description

The proposed project will not increase the permitted hydraulic or organic capacity of the WWTF, nor impact the liquid or solids stream treatment processes.

The Carbondale WWTF has only one screw press to handle the plant's solids dewatering stream. Several years ago, the screw press experienced unexpected downtime, which left the plant with an inability to waste sludge at the plant. Luckily, there was enough capacity within the digester basins to accommodate the relatively short (less than a week) downtime, but this experience highlighted the importance of having redundant treatment trains in the event of unexpected failure or expected maintenance.

The Town plans to install an identical second screw press as a redundant solids handling treatment train. The new screw press will be installed in the same building as the current screw press. The screw presses will only operate one at a time, and independently of each other (via designated control panels). As such, the new screw press will use the existing screw press feed pump and polymer injection system located on-site, which is appropriately sized to feed and dose one operating screw press at a time.

The existing Huber Rotamat RoS3Q 440 screw press processes the sludge from the secondary digesters. The sludge is pumped from the digesters, polymer is dosed to the sludge, and it continues to the biosolids building where it is dewatered.

The proposed project includes the installation of a new screw press, which will be a Huber Rotamat RoS3Q 440 unit, identical to the model already being used at the WWTF. The screw press use will alternate and will allow for easy maintenance and redundancy in the event of an emergency. This will not change the content or characteristics of the biosolids being processed, nor will it affect any upstream processes (e.g. aeration operations). The plant's capacity will remain unchanged.

Once the screw press and the accompanying conveyance system are installed. The sludge will enter one of the two screw presses where it will be dewatered. The existing screw press was sized to dewater 260 lbs/ hour of sludge at 2.5% feed solids. The Town has not experienced any issues with the capacity of the existing screw press. The proposed screw press is identical to the existing screw press, and thus will have the same dewatering capacity.

A SPIRAC shaftless conveyance system will be installed to move cake created by the proposed screw press to the dump truck so it may be transported to the landfill. The conveyance system includes a horizontal conveyor (U250-SPX/SS) and a vertical lift conveyor (OK250-SPX/SS). This will transport solids from the new screw press, which is on the first floor, up one level and over to the dump truck where it will be loaded into the truck.

### 3. Comparison of Approved and Proposed Treatment Facilities

a. Treatment Capacity	Approved Treatment Facility	After Proposed Treatment Process Modification(s)
Hydraulic Capacity: Maximum Month Average	0.995 MGD	0.995 MGD
Hydraulic Capacity: Peak Hour	2.985 MGD	2.985 MGD
Organic Loading Capacity: Maximum Month Average	2,248 lbs. BOD <sub>5</sub> /day or lbs. cBOD/day	2,248 lbs. BOD <sub>5</sub> /day or lbs. cBOD/day
<b>b. Treatment Facility Process Description</b>	<p>Influent wastewater enters the treatment facility through a 21-inch sewer main. The influent screening consists of an automatic barscreen. It is followed by an aerated grit chamber, influent sampling (Sigma Model 900), muffin monster open channel grinder, and influent flow measuring (Parshall flume) before entering the aeration basin.</p> <p>The existing aeration basin is designed for conventional activated sludge treatment. The basin is comprised of four individual tanks each approximately eight feet wide and 93 feet long. The maximum operational depth is approximately 15.3 feet for a total volume of approximately 45,500 cubic feet or 341,000 gallons. The detention time at the permitted capacity of 0.995 MGD is eight hours. Two 150 Hp Lamson blowers supply air to the aeration basins through fine bubble diffusers. One blower is duty and the other is standby.</p> <p>The three existing secondary clarifiers are preceded by a clarifier splitter box. The oldest clarifier was built in 1976 and is 40 feet in diameter. The other was built in 1998 and is 35 feet in diameter. Both clarifiers have a 10 foot side water depth. The newest clarifier was built in 2020 and is 50 feet in diameter with a 12-foot side water depth.</p> <p>Activated sludge is collected in the bottom sludge hoppers and returned to the head of the aeration basin using the existing RAS pumps. The RAS pumps are also used for wasting of the activated sludge to the primary digesters using an automated valve and timer.</p>	<p>One additional screw press will installed for redundancy. No changes to operations or treatment processes will occur.</p>

There are three existing RAS pumps that are connected through a common suction and discharge header. The existing valves are designed to allow a single RAS pump to be associated with each clarifier. The valving also allows the backup pump to be used for either clarifier in case repairs or maintenance are required. Each RAS pump has its own discharge flow meter, check valve and plug valve for isolation.

The Town currently chlorinates the clarified effluent and injects liquid chlorine just prior to the chlorine contact chamber. The chamber has a splitter box at the beginning that allows flow to be directed to one of the two sides. Each side has three channels that are each 3 feet wide, 42 feet long and have a side water depth of 7.5 feet. Dechlorination is used at the end of the serpentine channel to ensure permit compliance is met before it is discharged to the Roaring Fork River. Each side of the contact chamber has adequate volume for 30 minutes of detention time at current permitted flows.

Waste activated sludge from the clarifiers is sent to the primary digesters for processing. The Town currently has primary digesters that are separated into four individual basins. The lengths of each tank varies in size as shown below, but their maximum operational depths are 13.5 feet and widths are 30 feet. Tank 1's length is 11 feet, tanks 2 and 3 are 48 feet, and tank 4 is 41 feet. The tanks have piping that allows them to operate in series and for individual tanks to be taken offline for maintenance or repairs.

The primary digester tanks are equipped with coarse bubble diffusers and air is supplied by the existing Spencer blowers. All three blowers are 75 Hp multi-stage centrifugals; two are duty and one is for backup. These same blowers are used to supply air to the secondary digesters. After the primary digesters the digested sludge is sent to the secondary digesters for further processing.

The facility's secondary digesters are separated into two individual basins. The tank dimensions are the same for both and are 51 feet long, 25 feet wide, and have a 14 foot side-water depth. The total volume of each tank is 17,850 CF or 133,518 gallons. The tanks are equipped with coarse bubble diffusers and the air is supplied through the existing Spencer multi-stage blowers discussed in the primary digester section. These tanks are not equipped to run in on/off aeration modes.

Wastewater from the secondary digesters is pumped to the existing screw press which helps dewater the sludge by separating the

	liquid from the solid waste. Polymer that helps coagulate the solids and increase the dewatering capabilities of the equipment is injected after the pump, but before the press. The separated liquid gravity flows to an onsite lift station where it is pumped back to the start of the aeration basins for further treatment. The dewatered solids are hauled to a local landfill for disposal.	
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<b>c. Effluent disposal method (check all that apply)</b>		
Surface Discharge to watercourse	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Location of discharge (stream segment and legal description)	<input type="checkbox"/>	<input type="checkbox"/>
Groundwater Discharge	<input type="checkbox"/>	<input type="checkbox"/>
Land application	<input type="checkbox"/>	<input type="checkbox"/>
Treated Effluent Reuse (Regulation 84)	<input type="checkbox"/>	<input type="checkbox"/>
Evaporation	<input type="checkbox"/>	<input type="checkbox"/>
Other (enter description below)	<input type="checkbox"/>	<input type="checkbox"/>

**4. Additional Factors**

Please identify any additional factors that might help the Division make an informed decision on your site location application.

*Response:* In order to prevent unexpected downtime at the WWTF, it is important that an identical redundant screw press is installed. This will not change any treatment processes at the plant or the plant's capacity.





**Applicant Certification and Review Agencies Recommendation  
Section 22.10 - Amendment of Existing Treatment Plant Site Location Approval**

Project and System Information	
System Name	Town of Carbondale Wastewater Treatment Facility (WWTF)
Project Title	Screw Press Installation
County	Garfield
CDPS Permit No.	COG590050

**1. Applicant Certification**

Applicant Legal Representative			
Position/Title Assistant Public Works Director- Utilities Division	Typed Name Scott Wenning	Signature	Date
Email swenning@carbondaeco.net		Phone 970- 510-1351	
The system legal representative is the legally responsible agent and decision-making authority (e.g. mayor, president of a board, public works director, owner). The Design Engineer is not the legal representative and <u>cannot sign this form.</u>			

**2. Review Agency Notification**

As required in Section 22.10(1), the site location application and any amendment proposal supporting documentation must be submitted to all appropriate local governments, local health authority, 208 designated planning and management agencies and other state or federal agencies, as defined in 22.6(2). The review agencies will have 15 working days from receipt of the application to review and comment directly to the Division unless a brief extension is requested in writing. Please list below the review agencies to whom the site location application and proposal has been submitted and attach a copy of the transmittal letter.

Designated Management Agency (i.e., Water Quality Authority, Watershed Association, Watershed Authority)		
Agency	Typed Name	Notification Date
Email		Phone
County, if the site is located in unincorporated areas of a county		
County	Typed Name	Notification Date
Email		Phone
City or Town, if the site is located within a City/Town boundary or within three miles of the City/Town boundary (if multiple, attach additional sheets as needed)		
City/Town	Typed Name	Notification Date
Email		Phone

Local Health Authority		
Agency Garfield County Public Health	Typed Name	Notification Date
Email		Phone
208 Designated Planning Agency		
Agency	Typed Name	Notification Date
Email		Phone

**Other State or Federal Agencies, if treatment works is located on or adjacent to a site that is owned or managed by a federal or state agency.**

Agency	Typed Name	Notification Date
Email		Phone
<b>Other undesignated Basin Water Quality Authority, Watershed Association, Watershed Authority, etc.</b>		
Agency	Typed Name	Notification Date
Email		Phone

## Memorandum to the Board of County Commissioners

**Board Meeting Date:** 02/18/2025

**Prepared By:** Edward R. “Ted” White, P.E., Garfield County Public Health

**Presented By:** Donnie McCarthy (property owner), Carla Ostberg (OWTS designer), Graham Jackson (Garfield County Assistant Attorney), and Edward R. “Ted” White, P.E. (Garfield County Public Health)

**Subject:** Variance Request from Setback Distances for OWTS Components at 112 Navajo Street near New Castle, Colorado.

**Summary:** The property owner wishes to improve the existing, slow-draining OWTS to create an alternating OWTS consisting of two seepage pits. The new seepage pit will be along Navajo Street and will encroach upon several setbacks that are required in the Garfield County Onsite Wastewater Treatment System Regulations. Specifically, the new seepage pit will require a variance from the setback from the north and west property lines, a variance from the setback requirement from the manufactured home, and a variance from the water shut off valve and a 5 foot length of the water service line. Items for the Board of Health’s awareness:

- The local board of health has the authority to impose site-specific requirements and conditions on any variance granted.
- No variance shall be issued where the property can accommodate a conforming OWTS.
- No variance shall be allowed solely for economic gain.
- No variance shall be issued, if it will result in a setback reduction to an offsite physical feature that does not conform to the minimum setbacks defined in Table 7-1 of this regulation without the board of health considering any concerns of the owner of property containing said feature. Property lines are considered offsite features. The property owner containing said feature must be notified of the time and date of the hearing.

**Garfield County Public Health Staff Recommendation:** GCPH recommends the Board of Health grant all variance requests made by the applicant, with the following site-specific requirement: The owner shall develop a method to ensure and document that the proposed valve is turned to alternate effluent from the septic tank between seepage pits on an annual or more frequent basis, as required by section 43.10.F.4.a of the Garfield County Onsite Wastewater Treatment System Regulations.

**Necessary Board Action:** Make a motion to either **grant** or **deny** all, none, or some of the variance requests from the setback distances required in Table 7-1 of the Garfield County Onsite Wastewater Treatment System Regulations, as outlined below:

1. Reduction of the setback distance from 10 feet to 7 feet to the north property line.
2. Reduction of the setback distance from 10 feet to 4 feet to the west property line.
3. Reduction of the setback distance from 20 feet to 10 feet to the manufactured home.
4. Reduction of the setback distance from 25 feet to 20 feet to the water shutoff valve and water service line.

**VARIANCE PROCEDURE FROM GARFIELD COUNTY  
ONSITE WASTEWATER REGULATIONS**

## L. Variance Procedure

### 1. General

- a. The purpose of this section is to provide a procedure to consider variances from the design and/or siting requirements of the OWTS regulations.
- b. The local board of health set fees for processing an OWTS permit with a variance in accordance with section 25-10-107, C.R.S. See Exhibit B Fees.

### 2. Requirements for Variance Consideration

- a. To consider a variance request, application must be made to the board of health.
- b. The board of health must hear the variance request.
- c. The local board of health will determine what type of variances will require public hearings. The hearing must be the subject of a public notice sent via certified mail, with a minimum 20-day reply time from the date of mailing, to all adjacent property owners.
- d. Variance requests must be accompanied by:
  - (1) Site-specific request identifying the specific criteria from which a variance is being requested;
  - (2) Technical justification by a professional engineer or professional geologist, which indicates the specific conditions which exist and/or the measures which will be taken that support a finding that the variance will result in no greater risk than that associated with compliance with the requirements of the regulation. Examples of conditions which exist, or measures which might be taken, include but are not limited to the following: evidence of a natural or manmade physical barrier to the movement of effluent to or toward the feature from which the variance is requested; placement of a manmade physical barrier to the movement of effluent to or toward the feature from which the variance is requested; soil replacement with sand filter media to reduce the infiltration rate of the effluent such that the travel time of the effluent from the absorption field to the physical feature is no less than the travel time through the native soils at the prescribed setback and Treatment Level 2;
  - (3) A discussion of alternatives considered in lieu of the requested variance;
  - (4) Technical documentation for selected alternative, which may include a testing program, which confirms that the variance does not increase the risk to public health and to the environment; and
  - (5) A statement of the hardship that creates the necessity for the variance.
- e. The applicant has the burden of proof to demonstrate that the variance is justified and will pose no greater risk to public health and the environment than would a system meeting the regulations.

### 3. The local board of health has the authority to impose site-specific requirements and conditions on any variance granted.

### 4. Outcome of the Variance Proceeding

- a. The applicant must be notified, in writing, of the local board of health's decision regarding the request for a variance. The notice of a denial of a variance must include those reasons which form the basis for the denial. The notice of an approval of a variance must include any conditions of the approval. The variance, and any conditions thereof, must be recorded on the deed to the property and any expenses associated with that recording must be the responsibility of the party obtaining the variance.

5. Prohibitions on the Granting of Variance Requests

- a. No variance shall be issued where the property can accommodate a conforming OWTS.
- b. No variance shall be issued to mitigate an error in construction involving any element of property improvements.
- c. No variance shall be allowed solely for economic gain.
- d. No variance shall be issued, if it will result in a setback reduction to an offsite physical feature that does not conform to the minimum setbacks defined in Table 7-1 of this regulation without the board of health considering any concerns of the owner of property containing said feature. Property lines are considered offsite features. The property owner containing said feature must be notified of the time and date of the hearing.
- e. No variance shall be issued, if it reduces the separation to ground water or bedrock based on the level of treatment in Table 7-2.
- f. No variance from the horizontal setback from a well shall be issued unless it also meets the variance requirements of the Board of Examiners of Water Well Construction and Pump Installation Contractors.
- g. No variance shall be issued for the installation of a higher level treatment system based on sizing or separation reductions without the LPHA having a maintenance and oversight program as defined in section 43.14.D.

6. Variances for Repair of Failing Systems

- a. When a proposed variance for a system repair or upgrade would result in encroachment on minimum distances to physical features on neighboring properties required by the Division, the hearing procedures in 2.c. Requirements for Variance Consideration above must be followed.
- b. For the repair of or upgrade to an existing system where the existing system does not meet the required separation distances and where conditions other than lot size precludes adherence to the required distances, a variance to the separation distances may be requested. The repairs or upgrade must be no closer to features requiring setbacks than the existing facilities. Variances requesting setbacks no closer than existing setbacks do not have to provide technical justification from a professional engineer or professional geologist.

7. Findings on Appeal

- a. A request for review must be made within 30 days after denial of an application by the local public health agency.
- b. The applicant must bear the burden of supplying the local board of health with sufficient evidence to document that the denied system will be constructed and used in such a manner that will result in no greater risk than that associated with compliance with the requirements of the regulation, comply with the declaration and intent of this regulation, and comply with all applicable state and local regulations and required terms and conditions in any permit.
- c. Such review must be conducted pursuant to the requirements of section 24-4- 105, C.R.S.

# VARIANCE REQUEST PACKET



129 CAINS LANE  
CARBONDALE, CO 81623  
970.309.5259  
[CARLA.OSTBERG@GMAIL.COM](mailto:CARLA.OSTBERG@GMAIL.COM)

October 11, 2024

Onsite Wastewater Treatment System (OWTS) Variance Request  
112 Navajo Street  
Garfield County, Colorado

Garfield County Board of Health,

This variance request is for an OWTS application for a 6600-square foot property located outside of New Castle, in an area where OWTSs are necessary for a subdivision developed and approved by the Garfield County in 1965.

Legal Description: Lot 11, Block 3, Elk Creek Development, County of Garfield, State of Colorado  
Parcel ID: 2125-251-02-018

**The applicant, McCarthy Trust DTD, is seeking to upgrade the existing OWTS serving the existing 3-bedroom residence.**

The property is currently developed with a 3-bedroom residence (manufactured home on a foundation). The residence is served by an existing OWTS. The OWTS consists of a 1000-gallon, two-compartment concrete septic tank followed by a 14' x 15.5' x 10' deep drywell (or seepage pit). Garfield County Individual Sewage Disposal System (ISDS) Permit 3240 documents the system. The system was sized to accommodate 3 bedrooms. The permit received final approval on September 21, 1999.

The existing seepage pit is experiencing slow draining and there is a desire to upgrade the OWTS to the extent possible. We have outlined the proposed improvements to the OWTS in a design packet from CBO Inc. dated June 2, 2024, Project C1884.

The original OWTS serving the 3-bedroom residence (mobile home) on Lot 11 of the Elk Creek Subdivision consisted of a 1000-gallon septic tank (previously existing) and a soil treatment area (STA) consisting of 18' x 42' pipe and gravel absorption area with 4' of gravel under the perforated pipe. Garfield County ISDS Permit 1118 documents this system and received final approval on February 1, 1982.

When Lot 10 (adjoining property to the north) was developed with a mobile home in 1983, Garfield County issued ISDS Permit 1277. This permit documented the approval of two separate septic tanks to serve the two mobile homes (one 3-bedrooms and one 2-bedrooms) on the properties and continued use of the existing STA documented by ISDS Permit 1118. ISDS Permit 1277 received final approval on April 1, 1983. With this permit, a recorded agreement dated April 11, 1983, Book 624 Page 688, describes "Lot 10 and Lot 11 to have joint use of a common septic system consisting of 2 – 1000 gallon septic tanks and a leach field. Both lots to share equally in use, of maintenance, and repair." Due to this recorded agreement, the STA expanded beyond the shared property boundary and no property line setbacks were considered.

In 1999, the then-current individual property owners of Lots 10 and 11 installed separate OWTSs to serve the separate residences. The above-referenced ISDS Permit 3240 documents the subject OWTS serving Lot 11 (112 Navajo Street).



As a result of the construction of separate OWTSs in 1999, the property became more constrained and with this proposed repair, certain setbacks will be encroached on. Garfield County OWTS Regulation 43.4.L.6 states:

*“For the repair of or upgrade to an existing system where the existing system does not meet the required separation distances and where conditions other than lot size precludes adherence to the required distances, a variance to the separation distances may be requested. The repairs or upgrade must be no closer to features requiring setbacks than the existing facilities.”*

On September 10, 2024, we were notified by Garfield County Environmental Health Department that the OWTS application was denied because of the encroachment on minimum regulatory property line setbacks to the north (Lot 10, Elk Creek Development, 128 Navajo Street owned by Majano Gonzales and Erick Alexander which previously shared an OWTS with Lot 11) and to the west (Navajo Street, see enclosed Plat Map). Additionally, the setback to the foundation of the manufactured home and water shut off will also require encroachment.

The proposed seepage pit will come within approximately 7-feet from the northern property boundary, 4-feet from the western property boundary, 10-feet from the foundation for the manufactured home, and approximately 20-feet to the water shut off. From the water shut off, the water line runs along the south side of the residence and the majority of the water line exceeds the required setback.

The proposed STA will be located in the driveway on the west side of the residence due to there being no other reasonable alternate locations on the property.

Garfield County OWTS Regulation 43.10.I states

*“When space is not available or if there are other site limitations that preclude other soil treatment area options for OWTS repairs, wide beds, deep gravel trenches, deep beds and seepage pits may be considered for repairs only.”*

While the existing OWTS is not “failing”, the owners are concerned about the slow draining condition of the existing seepage pit and wish to proactively upgrade the system so future owners, should they decide to sell the property, would not be burdened with repair and replacement of the existing OWTS.

Proposing two separate, alternating seepage pits is typically not a conventional repair alternative. However, the constraints of the property and current code requirements required a creative solution to enhance the wastewater infrastructure serving the residence. Lot 5 (261 Comenhero Trail) repaired an OWTS serving a 4-bedroom residence with “two drywells” documented by ISDS Permit 2748. This permit describes an existing “home-made” septic tank and construction of two drywells to “fix failed system” and received final approval on April 28, 1998. This reference is an example of a similar unconventional, but previously approved, repair.

All documents referenced above have been enclosed for reference.

The applicant now respectfully requests the Garfield County Board of Health consider this variance request.

### **EXISTING CONDITIONS**

CBO Inc. has visited the property and evaluated onsite wastewater treatment system (OWTS) alternatives for improvements to the existing OWTS.

The property is served potable water from a community water system. The water line runs from the community water system tap to the south of the residence.

The size of the parcel does not allow improvements to the OWTS without encroaching on several regulatory setbacks.

### **OWTS DESIGN SUMMARY**

Design Calculations:

Average Design Flow = 75 GPD x 2 people/bedroom x 3 Bedrooms = 450 GPD

LTAR = 0.6 GPD/SF

450 GPD / 0.6 GPD/SF = 750 SF

Alternating systems min. each 375 SF

Existing Seepage Pit (1999) 14' x 15.5' x 10' deep = 807 SF

Proposed Seepage Pit 10' x 10' x 8' deep = 420 SF

The OWTS design is based on 3-bedrooms. An average daily wastewater flow of 450 GPD will be used.

Garfield County OWTS Regulation 43.10. F. 4 Alternating Systems states:

- (2) *An alternating system must have two or more zones that must be alternated on an annual or more frequent basis.*
- (3) *For repairs, each section must be a minimum of 50 percent of the total required soil treatment area. For new installations, each separate soil treatment area must meet the minimum sizing requirements of this regulation.*
- (4) *A diversion valve or other approved diversion mechanism that requires the owner or operator to manually alternate zones of the OWTS may be installed on the septic tank effluent line allowing soil treatment area sections to be alternated.*
- (5) *The diversion mechanism must be readily accessible from the finished grade.*

The existing septic tank will remain in use with some improvements. The existing sewer line exiting the septic tank will be excavated and a Bull Run Valve installed. This valve will be rotated on an annual or more frequent basis between the 1999 seepage pit and new, proposed seepage pit.

The new seepage pit will measure **10-feet long, 10-feet wide, and a minimum of 8-feet deep below the inlet pipe.**

**With this proposed design, there will be an encroachment on the minimum regulatory setbacks to the property lines to the north and west, setback to the foundation of the manufactured home which is not a traditional foundation, but pillars with tie downs that are set back further than the outside walls, and a slight encroachment on the water shut off.**

It should be noted that since the survey was initially completed and proposed OWTS design completed, a 10-foot utility easement was discovered by the property owner. The 10-foot utility easement runs along the northern property boundary, recorded in the development covenants June 29, 1965 (Book 367 Page 258). The property survey has since been updated and is enclosed. **Would this recorded easement, designated for utilities serving residences in the development, supersede the required 10-foot regulatory setback from a property line?** If so, the location of the proposed seepage pit could be shifted to negate encroachment on other regulatory setbacks and/or the shape of the proposed seepage pit could be modified to better fit in and near the designated easement.

2. UTILITY EASEMENT. Easements for the installation and maintenance of utilities and drainage facilities are reserved through, over, and across that portion of the lots described as follows:

The North ten (10) feet of the lots in Block 1 and Block 2, the South ten (10) feet of Lots 1 to 7, both inclusive, of Block 3; the North ten (10) feet of Lots 8 to 13, both inclusive, Block 3; the North ten (10) feet of Lots 1 to 3, both inclusive, Block 4; the South ten (10) feet of Lots 4 to 7, both inclusive, Block 4; the South ten (10) feet of Lots 1 to 9, both inclusive, Block 5; the ten (10) feet contiguous with Comonchero Trail in Lots 10 to 17, both inclusive, Block 5; the ten (10) feet contiguous with Apache Drive from the Southwest corner of Lot 1 to the Southeast corner of Lot 9, Block 6; the ten (10) feet of Lots 1 to 8, both inclusive, of Block 7 contiguous with Apache Drive, the South ten (10) feet of Lots 8 to 13, both inclusive, of Block 7; the North ten (10) feet of Block 8.

The current OWTS Design Packet and Component Specifications dated June 2, 2024 are enclosed. With the question regarding the easement not yet addressed, the following is proposed with our current, proposed plans.

#### VARIANCE REQUEST CRITERIA

- 1) Site-specific request identifying the specific criteria from which a variance is being requested.

**A request for a variance is being requested for encroachment on the minimum 10-foot setbacks from property lines to the south and west, the minimum 20-foot setback to the foundation of the manufactured home, and the minimum 25-foot setback to the water line.**

- 2) Technical justification by a professional engineer or professional geologist, which indicates the specific conditions which exist and/or the measures which will be taken that support a finding that the variance shall result in no greater risk than that associated with compliance with the requirements of these *Regulations*.

**There is limited space on the property to improve the existing OWTS. Use of an alternating system will enhance the life of the OWTS through use of the existing square footage and the additional square footage proposed. With the space constraints, the only option for improvements to the soil treatment area (STA) is a seepage pit.**

**Encroachment on the property boundary setbacks to neighboring properties cannot be avoided. It should be noted again that the previously shared OWTS between Lots 10 and 11 with the recorded agreement negated the need to meet property boundary setbacks in 1983. With the separation of the OWTSs and necessary repair, the 10-foot property line setback is restrictive and not attainable.**

**Encroachment on the setback to the manufactured home foundation, which is not a traditional foundation, but pillars with tie downs that are set back further than the outside walls, will not adversely impact the foundation due to the seepage pit depth well below the depth of the foundation.**

**The encroachment on the water line setback is encroachment is minimal (approximately 5') and the path of the water line onto the subject property moves further from the proposed STA.**

- 3) A discussion of alternatives considered in lieu of the requested variance.

**A survey of the property verified property line locations and improvements on the property. The proposed seepage configuration and location is the only place available on the property for improvements to the OWTS.**

**With the recent discovery of the Utility Easement along the northern property boundary, we would like to discuss this finding further and whether or not the existence of the easement supersedes the property boundary setback.**

- 4) Technical documentation for selected alternative, which may include a testing program, which confirms that the variance does not increase the risk to public health and to the environment.

**The proposed nature of an alternating system will allow resting of the soils which is beneficial to the long-term functioning and over-all performance of the OWTS. Repair/replacement of OWTS in this high-density neighborhood with small lots under current code is difficult, if not impossible, without encroachments.**

- 5) A statement of the hardship that created the necessity for the variance.

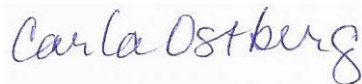
**The property owners have enclosed a statement of hardship, outlining their experience and efforts with the existing OWTS.**

**The location and configuration of the proposed improvement to the OWTS is the only feasible alternative to enhance the longevity and performance of the existing OWTS. If a variance is not granted, improvements will not be made. These improvements are proposed as a proactive measure. If no action is taken, future repairs will be more difficult.**

Please call with questions.

Sincerely,

CBO Inc.

A handwritten signature in blue ink that reads "Carla Ostberg". The signature is written in a cursive, flowing style.

Carla Ostberg, MPH, REHS

Donald "Donnie" McCarthy  
McCarthy Trust  
P.O. Box 34  
New Castle, CO 81647  
970-379-2266  
donniemccarthy@yahoo.com

September 29, 2024

Dear Garfield County Public Health,

In response to your denial of my OWTS Permit Application dated September 10, 2024, please find for your consideration my submission outlining the hardship I have experienced and continue to experience.

In January 2023, my father passed away unexpectedly and I moved into my parents' home to care for my mother who suffered from Alzheimer's as well as take care of the home. During this time, I found receipts indicating my father was pumping the dry well 1 to 2 times a year with cost ranging from \$600.00 to \$1,500.00 per service. Within a few months of moving in, I too had to have the drywell pumped three times. This was before realizing we had to reduce the water amount going into the drywell which was challenging with my mom's Alzheimer's and her forgetting to turn water off and other health issues causing high usage of the bathroom. During this time, we discovered a leaky toilet. My Dad had issues with an unknown high-water usage and replaced one of the toilets which brought the water usage down.

In December of 2023, my mom also passed away. My parents' deaths were unexpected and extremely hard on me and at a time that I should be mourning, I was researching and learning about septic systems and how to care for them. This led to much frustration, stress and sleeplessness. Which begins to wear a person down.

During this time, we thought we had remedied the leaky toilet by replacing the flap but there continued to be an issue with the drywell. This meant more action needed to be taken to try and determine the cause. This required minimal water use, which included not being able to do laundry, not using the dishwasher, the added cost of disposable paper plates / plastic utensils (which ends up in the county landfill), reducing the number and duration of showers, and monitoring toilet flushing all in order to reduce the amount of water going into the drywell. It was expensive to keep pumping the drywell and monetary hardship, in addition to and all of the stress compounded challenges to my life.

We hired two septic companies. The first company came twice. Initially to pump the drywell and then came back out to locate, inspect and pump the buried septic tank. This company reported the septic tank was in good working condition with minimal roots, the tank lids needed to be replaced and noted a slow working drywell. We took care of the tree roots and tank lids.

The second company was hired as a second opinion due to drywell water level rising so quickly after the first company pumped. This second company did a visual inspection. During this inspection they noted constant flow of water into the drywell and commented this was not normal. From this review we agreed to scoping the lines and was able to confirm there was constant water running into the system coming from the home. They ruled out ground water as a cause. Following their suggestion, we tested

with food coloring and confirmed an old toilet had a leak. We thought we repaired it but, we continued to have a flow of water into the drywell. A plumber friend, told us to do the food coloring test again and suspected a silent leak and to our shock, he was correct. We then turned the water off to the toilet and stopped using it. We have not replaced it due to the mounting expenses.

We met with the engineer and the second septic company on sight in the late spring of 2023. We had discussed with the second Septic Company about adding a second drywell which we shared with our engineer. The engineer felt the system was only saturated, but agree that a second drywell would allow for a rotation between the two wells annually. I felt this would give time for the drywell to dry out, remove the financial hardship of the extra costs of pumping and eliminate the stress of checking the water level. This solution really raised my hopes to finally resolve this issue.

My wife and I have been contemplating whether to sell or keep the property. We do not feel it is morally right to sell a property with a system that is not functioning optimally and to push this problem on to a new homeowner. Trying to sell a property that now has the disclosure of a denied permit application is a financial hardship as it will reduce the value of the home. The buyer pool will be smaller as this disclosure will scare off many buyers.

We have continued to be conservative with water use to recover functioning of the drywell. During the summer of 2023, the ground surrounding the dry well was always damp, but this summer the dampness is totally gone and the top soil is even cracking. The water level in the drywell has also dropped.

With the drywell as is, we don't feel there should be more than two occupants but we can't refuse to sell to people that may have a larger household. Also, the home is in the price range for a first-time homebuyer and they may not have the means to have multiple pumping of the drywell per year or modify the drywell system.

With the shortage of rentals, we could push the hardship on to tenants. With the new law of HB 24-1007 HOME (Harmonizing Occupancy Measures Equitably) Act as of July 1, 2024, renting the home out will be problematic since the lease will not be able to restrict the number of occupants. While the law allows for safety concerns such as the septic system which we could put in the lease, we have concerns it will not be followed. Not sure how the County's requirement of 6 people per 3 bedrooms and the 75 gallons of waste water flow per person will be upheld with the new law, it seems it could only be once there is a problem which could be fast for a slow draining drywell such as the sewage backing up into the home and or overflowing and running down the street as the neighbor's house did in the past. My understanding was this was caused by a tenant. This could be a costly damage to the property and a public health issue to the tenant and neighbors.

112 Navajo has rentals boarding three sides and there are other rentals close by. Should we rent the home out, we would be placing a hardship onto the tenants by having the lease state the tenants are responsible for pumping the drywell which could be multiple times a year and we will have to reduce the rent amount to offset this cost which will be a financial hardship on us since there is a mortgage, HOA dues, property taxes and hazard insurance. We wouldn't feel right renting with this problem unless fully disclosed to a tenant and the rent reduced. Hopefully, tenants would be responsible and conserve water and pump as needed and if they have a large number of people living in the home, they can spread the cost of pumping out amongst themselves. One of the purposes of HB 24-1007 is to allow multiple families living in one house, sharing a kitchen, and sharing the rent to help with the shortage of

affordable housing in the rental market. This could cause a lot more septic issues in this particular subdivision with a majority of the lot's sizes around 6,000sf.

To leave the house vacant for a year to let the drywell dry out as the neighbor did (sewage running down the street), we would have the hardship of the insurance company canceling the policy should they find out the home is vacant because insurance companies do not insure vacant homes. This will trigger the mortgage company to call the loan due in full and a financial hardship to try and secure the amount owed to the lender. Having a property sit vacant for a year is a financial hardship with having to continue to pay the mortgage, the HOA dues which includes the water, property taxes, insurance, electric and gas.

If we have to dig up the current dry well and replace with a new one, we were told that the county no longer allows wet contaminated septic soils to be taken to the county dump. The soils would have to be dug up and left onsite until the soil is dry. Not sure how long this would take or how much this will cost. The hardship will also carry through the air with the septic odor disturbing the neighbors in a subdivision that was approved in 1965 by the county to allow septic systems with leach fields on very small lots with homes very close together. Additionally, the septic soil would be an attractive nuisance for animals as this neighborhood is dog friendly and populated with bears and skunks visiting throughout the summer months.

Besides the financial hardship, there is a mental hardship of worrying that at times is exhausting when thinking about the drywell and the what ifs, what should we do, how much money can we allocate for needed repairs for the home and if we have to leave the home vacant making it look lived in to prevent squatters, insurance cancellation and the concerns of a vacant home during the winter months. The denial letter indicated a testing program. I do not know what this entails, if I can even afford this and how long it will go for. This is another worry and financial hardship due to the unknowns. I am using my retirement savings to make things right which could bring on a future hardship for me when I retire. I am a custodian for RE1. Not the highest paying job in the valley.

The estimated cost of the second drywell ranges between \$14,000 to \$18,000 of this writing. Requiring an engineer's design at a cost of \$3050, survey work at \$800 and the permit fee of \$600 for a total cost of \$4,450 before the county will even review a septic upgrade project and then denying the permit is a mental shock and financial hardship for us. We would imagine it would be for all properties owners in the Elk Creek Development Subdivision. Maybe this is why so many people are avoiding going to the county, pushing this down the road on to new owners, and pushing the septic pumping on to tenants.

A system for a double dry well was approved in 1998 for the adjoining property to the east of 112 Navajo which has the same size lot per the plat map. It feels unfair that you would not allow the double dry well for my property given the precedence of it being done before. I guess I could try and make a request to repurpose the shared leach field with the second drywell since that area has not been used for 26 years and was never recorded as vacated when the current drywell was installed. Would you consider this alternative solution? This could cost less money for excavation work and reduce the amount of time to complete.

If we continue with the proposal as is, the recorded covenants (Book 367, Page 258) do allow for a 10 foot setback for utility and drainage facilities on the lot. This allows the second drywell placement without needing a variance for the North property line. Then I could move the drywell 5ft to the North removing the variance for the water shut off. Also this could allow for the drywell to move East, thus

removing the variance for the front property line. We may not need a variance for the house setback because the foundation is not traditional, has cement pads tied to rebar, and the pad is farther back than the outside skirting used for the measurement. Would this plan be approved without a variance?

2. UTILITY EASEMENT. Easements for the installation and maintenance of utilities and drainage facilities are reserved through, over, and across that portion of the lots described as follows:

The North ten (10) feet of the lots in Block 1 and Block 2, the South ten (10) feet of Lots 1 to 7, both inclusive, of Block 3; the North ten (10) feet of Lots 8 to 13, both inclusive, Block 3; the North ten (10) feet of Lots 1 to 3, both inclusive, Block 4; the South ten (10) feet of Lots 4 to 7, both inclusive, Block 4; the South ten (10) feet of Lots 1 to 9, both inclusive, Block 5; the ten (10) feet contiguous with Comonchero Trail in Lots 10 to 17, both inclusive, Block 5; the ten (10) feet contiguous with Apache Drive from the Southwest corner of Lot 1 to the Southeast corner of Lot 9, Block 6; the ten (10) feet of Lots 1 to 8, both inclusive, of Block 7 contiguous with Apache Drive, the South ten (10) feet of Lots 8 to 13, both inclusive, of Block 7; the North ten (10) feet of Block 8.

Your denial letter suggested we need to be open to other alternatives. In writing this letter and doing additional research I found two alternatives demonstrating my willingness to consider such alternatives.

I want to work with the County to find a solution acceptable to all. I want to be proactive to having a healthy septic system that is not hardship on anyone including the County. I need the County's help and need to work together for a solution.

Your consideration either approving the variance, one of the two proposed alternatives written here or if there is a suggested alternative from the County would begin to alleviate my financial and mental hardships. I would know what I need to do to move forward.

Thinking about the future of this subdivision, we feel there is an opportunity for the County to use our situation to find a plan that can be used going forward with other property owners. Instead of waiting for systems to fail, work with homeowners to improve their current system and be proactive.

Thank you for your consideration, time and help.

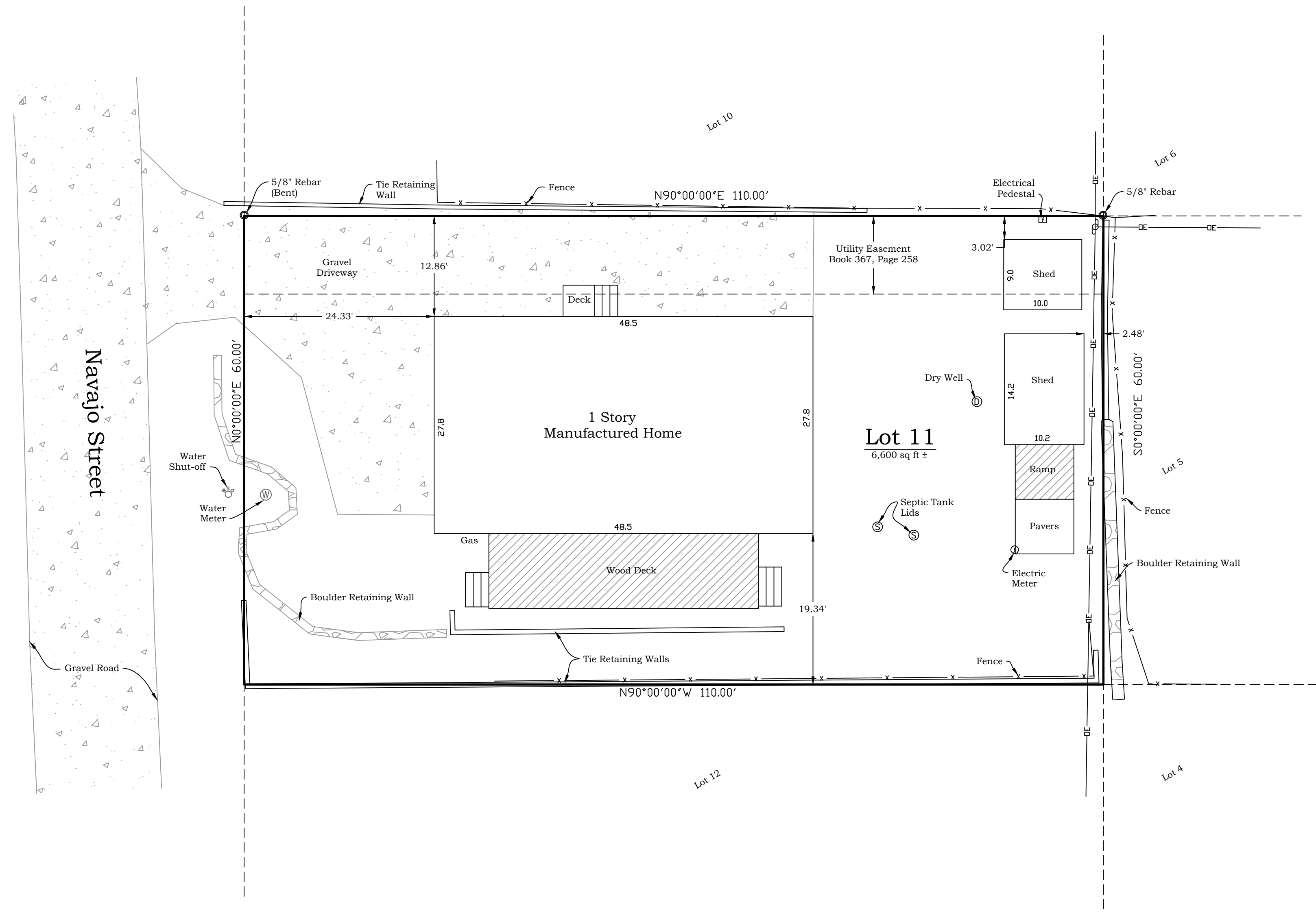
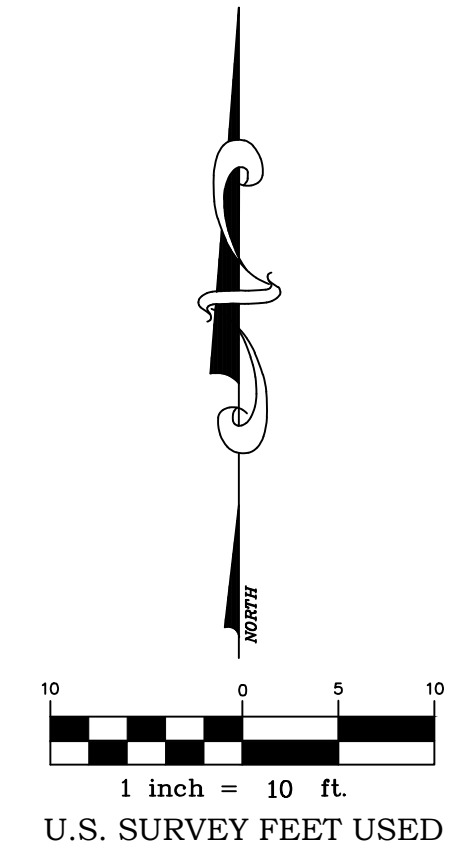
Respectfully,

Donnie McCarthy



# IMPROVEMENT LOCATION CERTIFICATE

LOT 11, BLOCK 3  
 ELK CREEK DEVELOPMENT  
 COUNTY OF GARFIELD, STATE OF COLORADO  
 112 NAVAJO STREET, NEW CASTLE, CO 81647



### PROPERTY DESCRIPTION

LOT 11  
 BLOCK 3  
 ELK CREEK DEVELOPMENT  
 COUNTY OF GARFIELD  
 STATE OF COLORADO

### NOTES:

- 1.) THE DATE OF THE FIELD SURVEY WAS APRIL 17, 2024.
- 2.) THIS DOES NOT REPRESENT A TITLE SEARCH BY THIS FIRM OR SURVEYOR.
- 3.) THIS PROPERTY IS SUBJECT TO EASEMENTS, RIGHTS OF WAY AND/ OR REQUIREMENTS AS NOTED OR SHOWN IN THE RECORDS OF THE GARFIELD COUNTY CLERK & RECORDER.

### IMPROVEMENT LOCATION CERTIFICATE:

I SCOTT R. BLACKARD HEREBY CERTIFY THAT THIS IMPROVEMENT LOCATION CERTIFICATE WAS PREPARED FOR MCCARTHY TRUST DTD, THAT IT IS NOT A LAND SURVEY PLAT OR IMPROVEMENT SURVEY PLAT, AND THAT IT IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OF FENCE, BUILDING, OR OTHER FUTURE IMPROVEMENT LINES. THIS CERTIFICATE IS VALID ONLY FOR USE BY MCCARTHY TRUST DTD, AND DESCRIBES THE PARCEL'S APPEARANCE ON APRIL 17, 2024.

I FURTHER CERTIFY THAT THE IMPROVEMENTS ON THE ABOVE DESCRIBED PARCEL ON THIS DATE, APRIL 17, 2024, EXCEPT UTILITY CONNECTIONS ARE ENTIRELY WITHIN THE BOUNDARIES OF THE PARCEL, EXCEPT AS SHOWN, THAT THERE ARE NO ENCROACHMENTS UPON THE DESCRIBED PREMISES BY IMPROVEMENTS ON ANY ADJOINING PREMISES, EXCEPT AS INDICATED, AND THAT THERE IS NO APPARENT EVIDENCE OR SIGN OF ANY EASEMENT CROSSING OR BURDENING ANY PART OF SAID PARCEL, EXCEPT AS NOTED.

SCOTT R. BLACKARD L.S. 38342



DATE



### IMPROVEMENT LOCATION CERTIFICATE

LOT 11, BLOCK 3  
 ELK CREEK DEVELOPMENT  
 COUNTY OF GARFIELD, STATE OF COLORADO  
 112 NAVAJO STREET, NEW CASTLE, CO 81647

JOB NO: 24023  
 DATE: 4/22/24  
 DWG BY: SRB  
 REV: 10/8/24

1 of 1

NOTICE: ACCORDING TO COLORADO LAW YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOVERED SUCH DEFECT. IN NO EVENT, MAY AN ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THE DATE OF THIS CERTIFICATION SHOWN HEREON.

PROPERTY DESCRIPTION

Beginning of a point whence the North 1/4 cor. of section 25, T-5-S, R-91-W, 6th Rm., Bears N-286.12 Feet  
 5-37-55-E 179.02 FEET  
 5-47-55-E 43.17 "  
 5-57-55-E 137.00 "  
 5-59-04-E 128.20 "  
 5-23-04-E 94.41 "  
 5-35-27-E 180.04 "  
 5-35-08-E 74.50 "  
 5-17-43-E 60.02 "  
 5-27-09-E 27.41 "  
 5-26-12-W 66.87 "  
 5-38-37-W 76.80 "  
 5-4-40-W 76.24 "  
 5-37-55-E 74.05 "  
 5-17-13-E 41.37 "  
 5-45-44-E 31.08 "  
 5-5-04-E 74.38 "  
 5-50-08-E 71.71 "  
 EAST 81.34 "  
 5-27-31-E 77.02 "  
 5-83-20-E 59.74 "  
 5-9-34-W 64.92 "  
 5-27-04-W 63.02 "  
 5-17-41-W 52.51 "  
 5-47-04-E 57.00 "  
 5-87-04-E 49.01 "  
 N-82-57-E 74.85 "  
 N-67-21-E 23.45 "  
 5-6-37-W 120.24 "  
 5-32-41-E 44.57 "  
 5-17-12-E 31.78 "  
 5-37-26-E 11.34 "  
 N-15-57-E 31.91 "  
 5-37-14-W 14.72 "  
 5-22-09-E 16.00 "  
 5-3-50-E 22.28 "  
 5-06-10-W 191.84 "  
 5-24-54-W 81.92 "  
 5-35-05-W 16.85 "  
 5-85-02-W 54.02 "  
 N-34-56-W 48.07 "  
 N-22-05-E 27.31 "  
 N-47-44-W 123.02 "  
 W-17-11-E 67.37 "  
 WEST 157.01 "  
 NORTH 60.00 "  
 WEST 40.00 "  
 NORTH 11.75 "  
 WEST 110.00 "  
 NORTH 595.30 "  
 N-43-74-W 45.95 "  
 N-48-32-W 104.72 "  
 5-88-70-W 37.82 "  
 5-83-54-W 310.40 "  
 NORTH 149.31 "

State of Colorado }  
 County of Garfield } SS

Jerome F. Gamba, being first duly sworn on his oath deposes and says:  
 I hereby certify that this plat is a true representation of a survey of  
 the Elk Creek Development in the county of Garfield, Colorado made  
 under my direction in 1965.

*Jerome F. Gamba*  
 Notary Public  
 Ref. S. 5933

Subscribed and sworn before me this 1st day of June 1965

*William R. Williams*  
 Notary Public

My commission expires Mar 25, 1966

KNOW ALL MEN BY THESE PRESENTS:

That the undersigned ELK CREEK DEVELOPMENT, INC., a corporation, the owner  
 of the property described on this map, adopts the map and all statements thereon  
 made and ratifies and confirms the statement of Henry W. Dietz.

ELK CREEK DEVELOPMENT, INC.  
 By *Henry W. Dietz*  
 President

ATTEST:  
*Henry W. Dietz*  
 Secretary

State of Arkansas }  
 County of Boone } SS

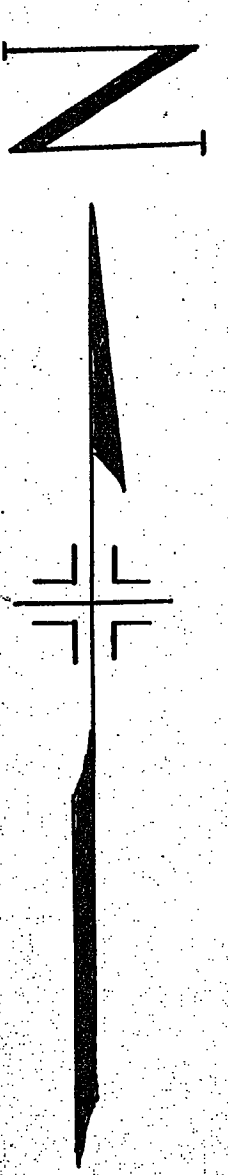
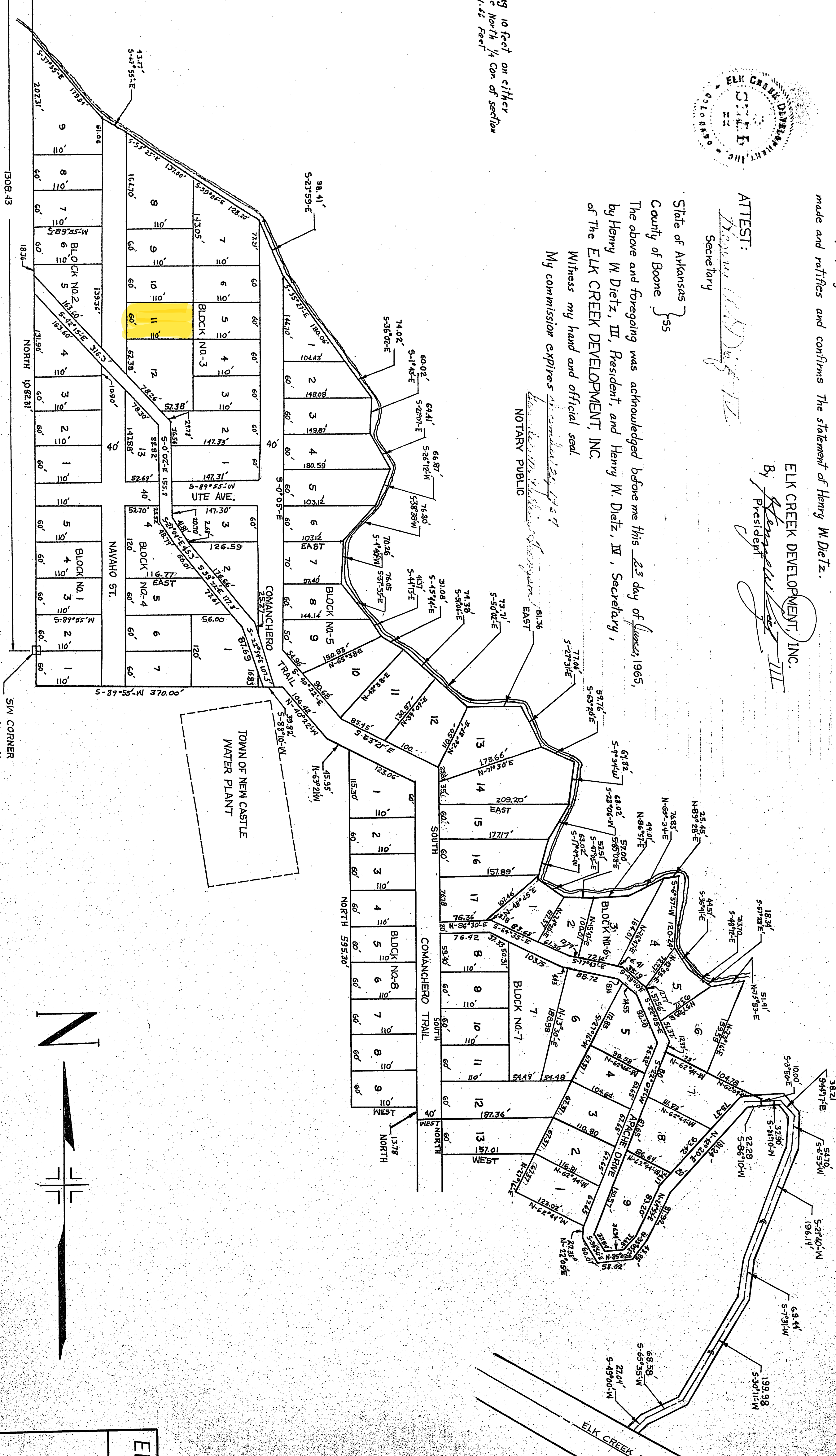
The above and foregoing was acknowledged before me this 23 day of June, 1965,  
 by Henry W. Dietz, III, President, and Henry W. Dietz, IV, Secretary,  
 of The Elk Creek Development, Inc.

Witness my hand and official seal.  
 My commission expires at 11:00 AM, June 23, 1965

NOTARY PUBLIC

A Strip of land 20 feet wide extending 10 feet on either  
 side of a line beginning at a point whence the North 1/4 cor. of section  
 25, T-5-S, R-91-W, 6th Rm., Bears North 70.42 Feet  
 Thence  
 5-17-15-E 316.3 FEET  
 5-0-02-E 155.8 "  
 5-27-04-E 45.3 "  
 5-19-22-E 171.3 "  
 5-22-34-E 107.5 "

N 1/4 CORNER  
 SEC. 25, T-5-S, R-91-W



390521

# 2649

KNOW ALL MEN BY THESE PRESENTS:

That Henry W. Dietz does hereby layout and plat the herein described  
 land under the name of Unit One of the Elk Creek Development in  
 the county of Garfield, State of Colorado and further dedicates to the  
 use of the public the streets and avenues herein designated.

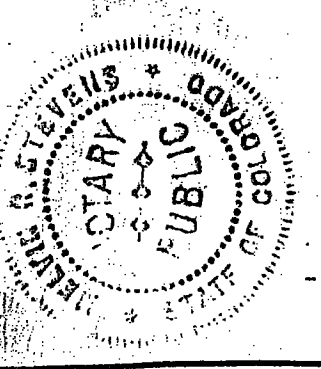
*Henry W. Dietz*  
 HENRY W. DIETZ

The foregoing dedication was acknowledged before me this

28th day of May 1965 by Henry W. Dietz

*William R. Williams*  
 NOTARY PUBLIC

My commission expires April 25, 1966



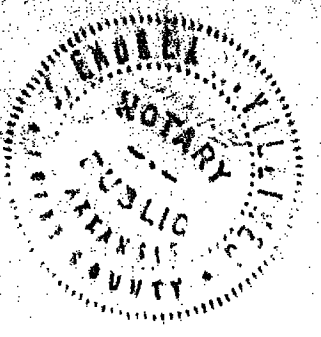
ELDORADO ENGINEERING CO.

UNIT - ONE  
 ELK CREEK  
 DEVELOPMENT

SEC. 25, T-5-S, R-91-W

SCALE: 1"=100'

JUNE 1965



RESTRICTIVE COVENANTS

ELK CREEK DEVELOPMENT

KNOW ALL MEN BY THESE PRESENTS that the Elk Creek Development, Inc., a corporation, the owner of the real property described on the map recorded, <sup>as</sup> Document No. 230521 in the office of the Clerk and Recorder of Garfield County, Colorado, and having subdivided said property into lots to be used exclusively for residence purposes, and to protect the purchasers of said lots by appropriate restrictive covenants, do hereby adopt the following:

1. The following restrictions shall apply to Lots 10 to 17, both inclusive, Block 5; Block 6; Block 7; and Block 8 of the Elk Creek Development:

(a) No building shall be permitted on any lot having a ground floor area of the main structure, exclusive of carports, patios, and basements, of less than eight hundred square feet. Dwelling houses are limited to one family dwellings.

(b) Dwelling houses shall be completed within one year from the date work started on the structure.

(c) No structure of a temporary character, trailer, mobile home, basement, tent, shack, garage, barn, or other outbuilding shall be used on any of the above lots at any time as a residence, either temporarily or permanently.

2. UTILITY EASEMENT. Easements for the installation and maintenance of utilities and drainage facilities are reserved through, over, and across that portion of the lots described as follows:

The North ten (10) feet of the lots in Block 1 and Block 2, the South ten (10) feet of Lots 1 to 7, both inclusive, of Block 3; the North ten (10) feet of Lots 8 to 13, both inclusive, Block 3; the North ten (10) feet of Lots 1 to 3, both inclusive, Block 4; the South ten (10) feet of Lots 4 to 7, both inclusive, Block 4; the South ten (10) feet of Lots 1 to 9, both inclusive, Block 5; the ten (10) feet contiguous with Comonchero Trail in Lots 10 to 17, both inclusive, Block 5; the ten (10) feet contiguous with Apache Drive from the Southwest corner of Lot 1 to the Southeast corner of Lot 9, Block 6; the ten (10) feet of Lots 1 to 8, both inclusive, of Block 7 contiguous with Apache Drive, the South ten (10) feet of Lots 8 to 13, both inclusive, of Block 7; the North ten (10) feet of Block 8.

3. ENFORCEMENT. Enforcement shall be by proceedings at law or in equity against any person, or persons, firm or corporation violating or attempting to violate any covenants, either to restrain the violation or to recover damages.

IN WITNESS WHEREOF, the undersigned corporation has signed the above on this 21<sup>st</sup> day of June, 1965.



ELK CREEK CORPORATION, INC.

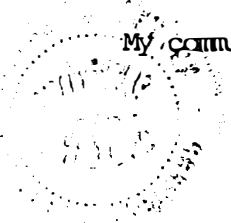
By Henry W. Dietz, III  
President

Henry W. Dietz, IV  
Secretary

STATE OF Arkansas, )  
  ) "  
COUNTY OF Boone, )

The above instrument was acknowledged before me this 21<sup>st</sup> day of June, A. D. 1965, by Henry W. Dietz, III, President, and Henry W. Dietz, IV, Secretary of Elk Creek Development, Inc.

Witness my hand and official seal.



My commission expires April 20, 1967.

Everette M. Willis-Tepson  
Notary Public

**GARFIELD COUNTY BUILDING AND SANITATION DEPARTMENT**

2014 Blake Avenue  
Glenwood Springs, Colorado 81601  
Phone (303) 945-8241

This does not constitute  
a building or use permit.

INDIVIDUAL SEWAGE DISPOSAL PERMIT NO **1118**

Owner Jim Hess

System Location 0112 Navaho Street, Elk Creek

Licensed Installer \_\_\_\_\_

\* Conditional Construction approval is hereby granted for a 1,000 gallon  
xx Septic Tank or \_\_\_\_\_ Aerated treatment unit.

Absorption area (or dispersal area) computed as follows:

Perc rate of one inch in ~~34~~<sup>9</sup> minutes requires a minimum of 216 sq. ft. of absorption area per bedroom.

Therefore the no. of bedrooms 3 x 216 sq. ft. minimum requirement = a total of 648 sq. ft. of absorption area.

May we suggest 12' x 54' x 3' or 18' x 36' x 3'  
Date Jan 8, 1982 Inspector T. Howard Saintaman

**FINAL APPROVAL OF SYSTEM:**

No system shall be deemed to be in compliance with the Sewage Disposal Laws until the assembled system is approved prior to covering any part.

OK Septic Tank access for inspection and cleaning within 12" of ground surface or aerated access ports above ground surface. *unable to inspect tank - covered 1000 gal.*

OK Proper materials and assembly.

Copeland Trade name of septic tank or aerated treatment unit. 1000 gal.

OK Adequate absorption (or dispersal) area. 18' x 42' x 4' total 24' x 45' outside of extra gravel

OK Adequate compliance with permit requirements.

OK Adequate compliance with County and State regulations/requirements.

Other \_\_\_\_\_  
Date Jan 1, 1982 Inspector T. Howard Saintaman

**RETAIN WITH RECEIPT RECORDS AT CONSTRUCTION SITE**

**\*CONDITIONS:**

1. All installation must comply with all requirements of the County Individual Sewage Disposal Regulations, adopted pursuant to authority granted in 66-44-4, CRS 1963, amended 68-3-14, CRS 1963.
2. This permit is valid only for connection to structures which have fully complied with County zoning and building requirements. Connection to or use with any dwelling or structures not approved by the Building and Zoning office shall automatically be a violation of a requirement of the permit and cause for both legal action and revocation of the permit.
3. Section III, 3.24 requires any person who constructs, alters, or installs an individual sewage disposal system in a manner which involves a knowing and material variation from the terms or specifications contained in the application of permit commits a Class I, Petty Offense (\$500.00 fine - 6 months in jail or both).

INDIVIDUAL HOME SEWAGE TREATMENT SYSTEMS APPLICATION

Owner: Jane Hess

Mail Address: PO Box 664 City: Glenwood Spgs Phone: 984-2405

INFORMATION REGARDING PROJECT SUBMITTED FOR REVIEW

Attach separate sheets or report showing entire area with respect to surrounding areas, topography of area, habitable buildings, location of potable water wells, soil percolation test holes, soil profiles in test holes (see Page 3).

1. Location of Facility: County GARFIELD Near What City or Town New Castle  
Location Address &/or Legal Description 0112 Navaho St Lot Size 120x110  
Call Creek lots 10 & 11 Block 3

2. No. of Bedrooms 3 Septic Tank Capacity 1000 gal Aeration Unit Capacity N/A

3. Source of Domestic Water: Public (name): Call Creek  
Private: Well \_\_\_\_\_ Depth \_\_\_\_\_ Other \_\_\_\_\_ Depth to 1st ground water table \_\_\_\_\_

4. Is facility within boundaries of a city/town or sanitation district? No

5. Distance to nearest sewer system: 1 mi

Have you attempted to arrange a connection with the system? No

If rejected, what was the reason? \_\_\_\_\_

6. If R.P.E. tested, state rate of absorption in test holes shown on the location map, in minutes per inch of drop in water level after holes have been soaked for 24 hours:

7. Name, address, and telephone of R.P.E. who made soil absorption tests: \_\_\_\_\_

8. Name, address, and telephone of R.P.E. responsible for design of the system: \_\_\_\_\_

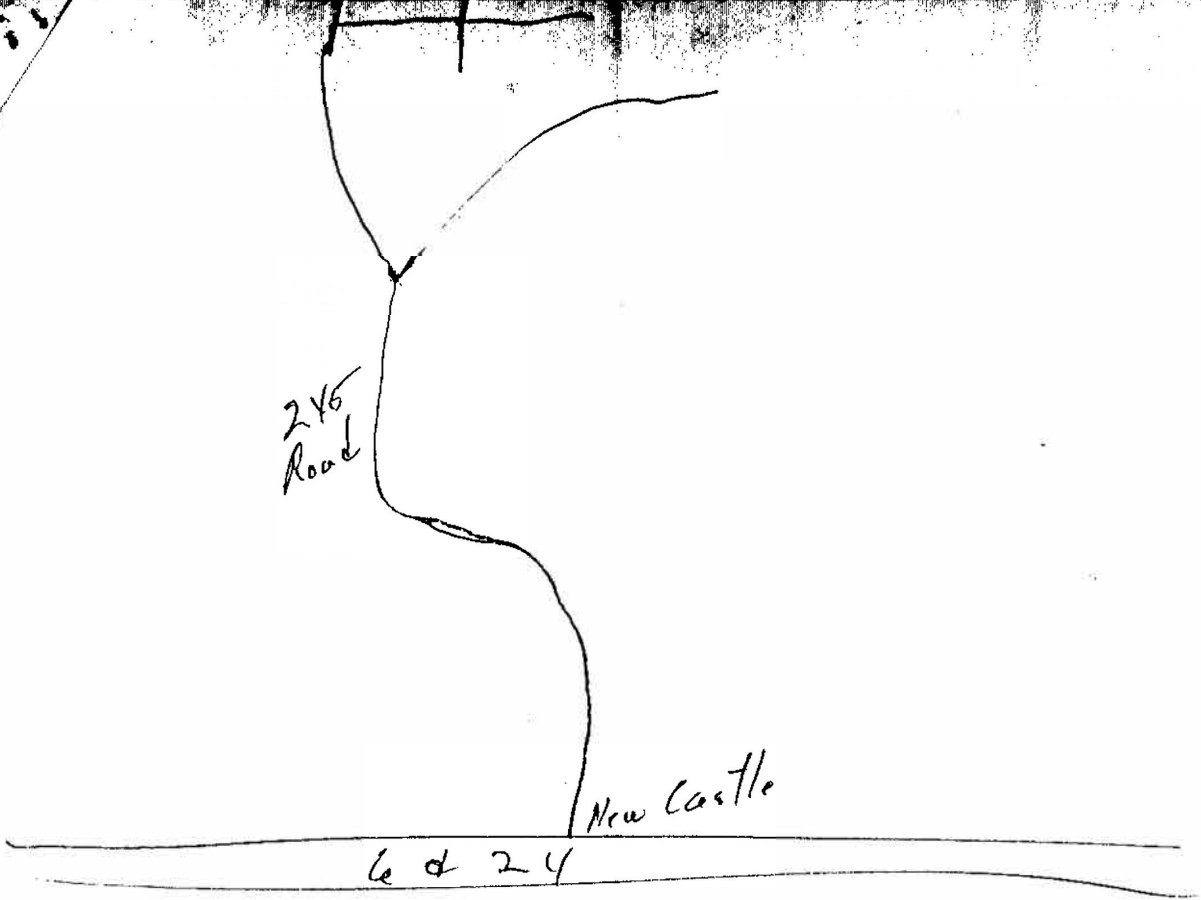
9. Express permission is hereby granted for the inspection of the above property by any member of the Garfield County Building & Sanitation Department and/or such persons as they may designate. Any withdrawal of this permission shall be in writing and receipt acknowledged by the County Building & Sanitation Department.

10. I have been given an opportunity to read the Individual Sewage Disposal Systems Regulations of Garfield County and I hereby agree to comply with all terms, conditions and requirements included therein.

Nov. 17, 1981  
Date

Ruth Ann Hess  
Signature of Applicant

PLEASE DRAW AN ACCURATE MAP TO YOUR PROPERTY



INDICATE BELOW THE LOCATION OF YOUR BUILDINGS, WATER SUPPLY AND DISTRIBUTION LINES, STREAMS, IRRIGATION DITCHES, ROADWAYS, AND BOUNDARY LINES

GARFIELD COUNTY BUILDING AND SANITATION DEPARTMENT

2014 Blake Avenue  
 Glenwood Springs, Colorado 81601  
 Phone (303) 945-8241

Perc Fee Waived..Absorption Area Existing

INDIVIDUAL SEWAGE DISPOSAL PERMIT 10 1277

This does not constitute a building or use permit.

Owner Dennis L. Brown  
 System Location Lot 11, Block 3 East Elk Creek Subdivision, New Castle  
 Licensed Installer Owner

\* Conditional Construction approval is hereby granted for a 750 gallon  
XXX Septic Tank or          Aerated treatment unit.

Absorption area (or dispersal area) computed as follows:

Perc rate of one inch in 9 minutes requires a minimum of 216 sq. ft. of absorption area per bedroom.

Therefore the no. of bedrooms 2 x 216 sq. ft. minimum requirement = a total of 432 sq. ft. of absorption area.

May we suggest EXISTING ABSORPTION AREA ADEQUATE SIZE TO ACCOMMODATE ADDITIONAL 2 BEDROOM MOBILE HOME.

Date 2-22-83 Inspector ED FELD

CROSS REFERENCED TO PERMIT #1118

FINAL APPROVAL OF SYSTEM:

No system shall be deemed to be in compliance with the Sewage Disposal Laws until the assembled system is approved prior to covering any part.

OK Septic Tank access for inspection and cleaning within 12" of ground surface or aerated access ports above ground surface. 4-1-83  
OK Proper materials and assembly. 4-1-83  
COPELAND Trade name of septic tank or aerated treatment unit. 4-1-83

2 - 1,000 GALLON TANKS SET IN SERIES TO ACCOMMODATE 1-2DRM MOBILE HOME & ONE 3BDRM MOBILE HOME.

OK Adequate absorption (or dispersal) area. SEE PERMIT # 1118

OK Adequate compliance with permit requirements. 4-1-83

OK Adequate compliance with County and State regulations/requirements. 4-1-83

OK Other RETAG NOTATING PROXIMITY OF WATER LINE CORRECTED.

Date 4-1-83 Inspector ED FELD

PROOF OF RECORDED STATEMENT RE: SHARED LIDS ATTACHED

RETAIN WITH RECEIPT RECORDS AT CONSTRUCTION SITE

\*CONDITIONS:

1. All installation must comply with all requirements of the County Individual Sewage Disposal Regulations, adopted pursuant to authority granted in 66-44-4, CRS 1963, amended 66-3-14, CRS 1963.
2. This permit is valid only for connection to structures which have fully complied with County zoning and building requirements. Connection to or use with any dwelling or structures not approved by the Building and Zoning office shall automatically be a violation of a requirement of the permit and cause for both legal action and revocation of the permit.
3. Section III, 3.24 requires any person who constructs, alters, or installs an individual sewage disposal system in a manner which involves a knowing and material variation from the terms or specifications contained in the application of permit commits a Class I, Petty Offense (\$500.00 fine - 6 months in jail or both).



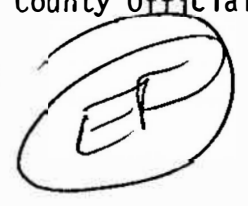
INDIVIDUAL SEWAGE DISPOSAL SYSTEM APPLICATION

PERC WAIVED - FIELD INSTALLATION

Application Approval by County Official:

OWNER: FRANK BROWN  
ADDRESS: Box 752 OLEWOOD ST PHONE: \_\_\_\_\_  
CONTRACTOR: Owner PHONE: 984-2856  
ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_

SEE PERMIT #1118  
SEE PERMIT FEE APPLIES



PERMIT REQUEST FOR: (  ) New Installation ( ) Alteration ( ) Repair  
Attach separate sheets or report showing entire area with respect to surrounding areas, topography of area, habitable building, location of potable water wells, soil percolation test holes, soil profiles in test holes. (See page 4.)

LOCATION OF PROPOSED FACILITY: County EARFIELD  
Near what City of Town NEW CASTLE Lot Size 110  
Legal Description BLOCK 3 LOT 11

PREEXISTING LOT OF RECORD

WASTES TYPE: (  ) Dwelling ( ) Transient Use  
( ) Commercial or Institutional ( ) Non-domestic Wastes  
( ) Other - Describe \_\_\_\_\_

BUILDING OR SERVICE TYPE: MOBILE HOME  
Number of bedrooms 2 Number of persons 4 max

( ) Garbage grinder (  ) Automatic washer ( ) Dishwasher  
SOURCE AND TYPE OF WATER SUPPLY: ( ) well ( ) spring ( ) stream or creek

Give depth of all wells within 180 feet of system: NONE  
If supplied by community water, give name or supplier: ELK CREEK SUBD

GROUND CONDITIONS:  
Depth to bedrock: UNK  
Depth to first Ground Water Table: 100' +  
Percent ground slope: 5-10%

DISTANCE TO NEAREST COMMUNITY SEWER SYSTEM: 2 1/2 miles  
Was an effort made to connect to community system? NO

TYPE OF INDIVIDUAL SEWAGE DISPOSAL SYSTEM PROPOSED:  
(  ) Septic Tank ( ) Aeration Plant ( ) Vault  
( ) Vault Privy ( ) Composting Toilet ( ) Recycling, potable use  
( ) Pit Privy ( ) Incineration Toilet ( ) Recycling, other use  
( ) Chemical Toilet ( ) Other - Describe: \_\_\_\_\_

FINAL DISPOSAL BY:  
(  ) Absorption Trench, Bed or Pit ( ) Evapotranspiration  
( ) Underground Dispersal ( ) Sand Filter  
( ) Above Ground Dispersal ( ) Wastewater Pond  
( ) Other - Describe: \_\_\_\_\_

WILL EFFLUENT BE DISCHARGED DIRECTLY INTO WATERS OF THE STATE? NO

PERCOLATION TEST RESULTS: (To be completed by Registered Professional Engineer.)

Minutes \_\_\_\_\_ per inch in hole No. 1

Minutes \_\_\_\_\_ per inch in hole No. 3

Minutes \_\_\_\_\_ per inch in hole No. 2

Minutes \_\_\_\_\_ per inch in hole No. \_\_\_\_\_

Name, address and telephone of RPE who made soil absorption tests: \_\_\_\_\_

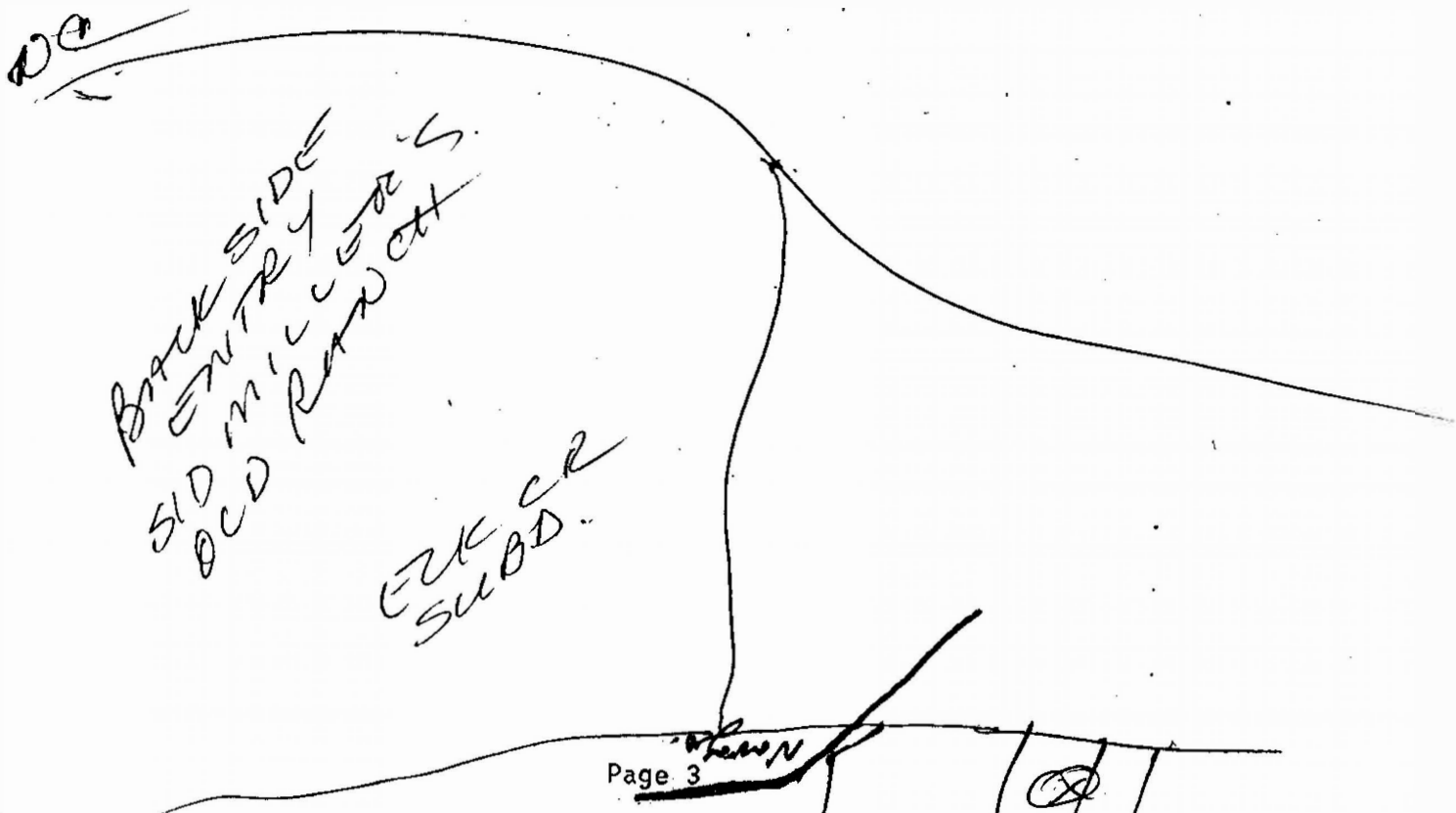
Name, address and telephone of RPE responsible for design of the system: \_\_\_\_\_

Applicant acknowledges that the completeness of the application is conditional upon such further mandatory and additional tests and reports as may be required by the local health department to be made and furnished by the applicant or by the local health department for purposes of the evaluation of the application; and the issuance of the permit is subject to such terms and conditions as deemed necessary to insure compliance with rules and regulations adopted under Article 10, Title 25, C.R.S. 1973, as amended. The undersigned hereby certifies that all statements made, information and reports submitted herewith and required to be submitted by the applicant are or will be represented to be true and correct to the best of my knowledge and belief and are designed to be relied on by the local department of health in evaluating the same for purposes of issuing the permit applied for herein. I further understand that any falsification or misrepresentation may result in the denial of the application or revocation of any permit granted based upon said application and in legal action for perjury as provided by law.

Date 2-18-83

Signed \*Dennis Brown

PLEASE DRAW AND ACCURATE MAP TO YOUR PROPERTY



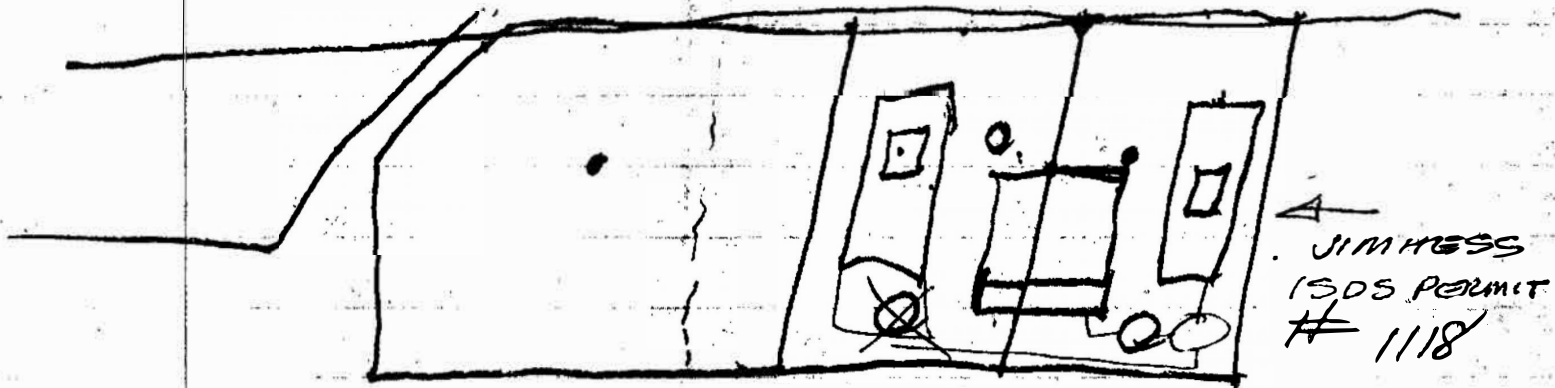
DENNIS BROWN SYSTEM  
ABSORPTION AREA ADEQUATE FOR  
① 3 BDRM TRAILER & ① 2 BED ROOM  
1080 SQ FT ABSORPTION AREA PROVIDED

REQ. 648 FROM PERMIT 1118

432 SQ FT EXTRA

1" 9 MIN 216 SQ FT X 2 = 432 SQ FT

OK



110 X 120'

AGREEMENT, made this 16<sup>th</sup> day of March 1, A. D. 1983  
between Dennis Brown, owner of Lot 10 and Lot 11  
Block III, East Elk Creek Subdivision  
hereinafter called First Party, and

hereinafter called Second Party, Witnesseth:

WHEREAS, Lot

WHEREAS,

NOW, THEREFORE, In consideration of the premises; the mutual covenants and agreements herein contained; and the further consideration of

to

in hand paid by

receipt of which is hereby acknowledged, the parties hereto agree as follows:

Lot 10 and Lot 11 to have joint use of common  
septic system consisting of 2 - 1000 Gallon septic  
tanks and a leach field. Both Lots to share equally  
in use, of maintenance, and repair.

IN WITNESS WHEREOF, The parties hereto have hereunto set their hands this 16<sup>th</sup> day of  
March, A. D. 1983

Dennis Brown



By Common Expense  
May 18, 1985

Recorded at 9:38 o'clock A.M. APR 11 1983  
Reception No. 340819 MILDRED ALSDORF, RECORDER

Recorders Note: 4-11-83  
Document note complete  
with grantee when Recorded.

Dennis L. Brown  
Box 752  
Alwad Spgs Cal 91602

GARFIELD COUNTY

FEES \$ ~~300.00~~ <sup>per</sup> <sub>per</sub>

- THEY ARE GETTING AN ENGINEER

GARFIELD COUNTY BUILDING AND SANITATION DEPARTMENT

109 8th Street Suite 303  
Glenwood Springs, Colorado 81601  
Phone (303) 945-8212

Permit 2148  
Assessor's Parcel No.

This does not constitute  
a building or use permit.

INDIVIDUAL SEWAGE DISPOSAL PERMIT

PROPERTY

Owner's Name James Cross Present Address 0261 Comanchero Trail, N.C. Phone 984-0326

System Location 0261 Comanchero Trail, New Castle

Legal Description of Assessor's Parcel No.

SYSTEM DESIGN

NO / PASS

1 1/80 MIN

Septic Tank Capacity (gallon) \_\_\_\_\_ Other \_\_\_\_\_  
Percolation Rate (minutes/inch) \_\_\_\_\_ Number of Bedrooms (or other) 4

Required Absorption Area - See Attached

Special Setback Requirements:

Date 3-19-97 Inspector AMR

FINAL SYSTEM INSPECTION AND APPROVAL (as installed)

Call for Inspection (24 hours notice) Before Covering Installation

System Installer MILES RIPPY

Septic Tank Capacity EXISTING 1250 + gal

Septic Tank Manufacturer or Trade Name HOME-MADE

Septic Tank Access within 8" of surface EXISTING

Absorption Area 2 DRYWELLS (A = 255' x 2) 510

Absorption Area Type and/or Manufacturer or Trade Name COPELAND

Adequate compliance with County and State regulations/requirements SEE ENGR. PLAN

Other - FIXED FAILED SYSTEM

Date 4-21-98 Inspector ARNO

RETAIN WITH RECEIPT RECORDS AT CONSTRUCTION SITE

\*CONDITIONS:

1. All installation must comply with all requirements of the Colorado State Board of Health Individual Sewage Disposal Systems Chapter 25, Article 10 C.R.S. 1973, Revised 1984.
2. This permit is valid only for connection to structures which have fully complied with County zoning and building requirements. Connection to or use with any dwelling or structures not approved by the Building and Zoning office shall automatically be a violation or a requirement of the permit and cause for both legal action and revocation of the permit.
3. Any person who constructs, alters, or installs an individual sewage disposal system in a manner which involves a knowing and material variation from the terms or specifications contained in the application of permit commits a Class I, Petty Offense (\$500.00 fine — 6 months in jail or both).

INDIVIDUAL SEWAGE DISPOSAL SYSTEM APPLICATION

Application Approval by County Official:

\$150.00

OWNER James Cross

ADDRESS 2261 Comanche Tr. N.C. Co. 81647 PHONE 984-0326

CONTRACTOR

ADDRESS PHONE

PERMIT REQUEST FOR: (X) New Installation ( ) Alteration ( ) Repair

Attach separate sheets or report showing entire area with respect to surrounding areas, topography of area, habitable building, location of potable water wells, soil percolation test holes, soil profiles in test holes. (See page 4.)

LOCATION OF PROPOSED FACILITY: County Garfield

Near what City of Town Newcastle Lot Size 60' X 120'

Legal Description Lot 3 Block 5 Elk Creek Subdivision

WASTES TYPE: (X) Dwelling ( ) Transient Use ( ) Commercial or Institutional ( ) Non-domestic Wastes ( ) Other - Describe

BUILDING OR SERVICE TYPE: Mobile Home

Number of bedrooms 24 Number of persons 5

( ) Garbage grinder (X) Automatic washer ( ) Dishwasher

SOURCE AND TYPE OF WATER SUPPLY: ( ) well ( ) spring (X) stream or creek

Give depth of all wells within 180 feet of system: None

If supplied by community water, give name or supplier: Town of Newcastle

GROUND CONDITIONS:

Depth to bedrock:

Depth to first Ground Water Table:

Percent ground slope:

DISTANCE TO NEAREST COMMUNITY SEWER SYSTEM:

Was an effort made to connect to community system?

TYPE OF INDIVIDUAL SEWAGE DISPOSAL SYSTEM PROPOSED:

- (X) Septic Tank ( ) Aeration Plant ( ) Vault ( ) Vault Privy ( ) Composting Toilet ( ) Recycling, potable use ( ) Pit Privy ( ) Incineration Toilet ( ) Recycling, other use ( ) Chemical Toilet ( ) Other - Describe:

FINAL DISPOSAL BY:

- (X) Absorption Trench, Bed or Pit ( ) Evapotranspiration ( ) Underground Dispersal ( ) Sand Filter ( ) Above Ground Dispersal ( ) Wastewater Pond ( ) Other - Describe:

WILL EFFLUENT BE DISCHARGED DIRECTLY INTO WATERS OF THE STATE? No

SOIL PERCOLATION TEST RESULTS: (To be completed by Registered Professional Engineer.)

Minutes \_\_\_\_\_ per inch in hole No. 1

Minutes \_\_\_\_\_ per inch in hole No. 3

Minutes \_\_\_\_\_ per inch in hole No. 2

Minutes \_\_\_\_\_ per inch in hole No. \_\_\_\_\_

Name, address and telephone of RPE who made soil absorption tests: \_\_\_\_\_

Name, address and telephone of RPE responsible for design of the system: \_\_\_\_\_

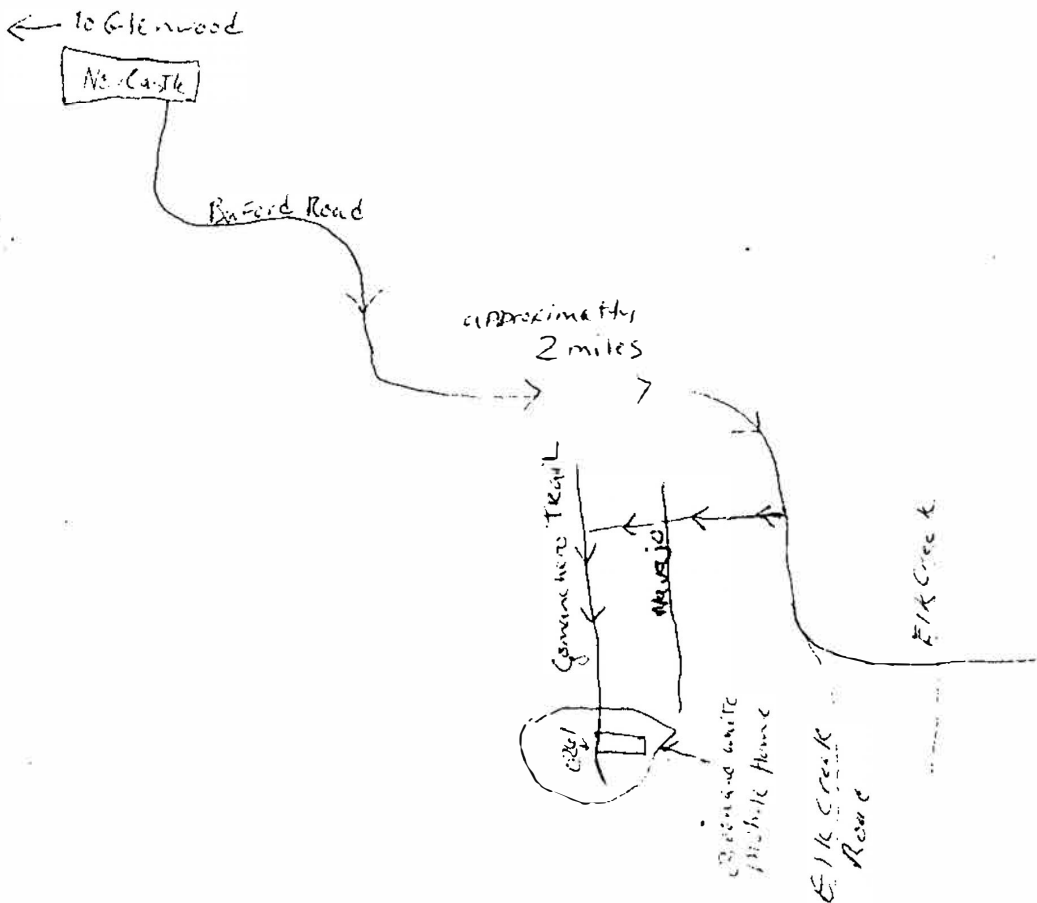
Applicant acknowledges that the completeness of the application is conditional upon such further mandatory and additional tests and reports as may be required by the local health department to be made and furnished by the applicant or by the local health department for purposes of the evaluation of the application; and the issuance of the permit is subject to such terms and conditions as deemed necessary to insure compliance with rules and regulations adopted under Article 10, Title 25, C.R.S. 1973, as amended. The undersigned hereby certifies that all statements made, information and reports submitted herewith and required to be submitted by the applicant are or will be represented to be true and correct to the best of my knowledge and belief and are designed to be relied on by the local department of health in evaluating the same for purposes of issuing the permit applied for herein. I further understand that any falsification or misrepresentation may result in the denial of the application or revocation of any permit granted based upon said application and in legal action for perjury as provided by law.

3-21-97

Date ~~Oct 5 1993~~ \_\_\_\_\_

Signed J. PC \_\_\_\_\_

PLEASE DRAW AND ACCURATE MAP TO YOUR PROPERTY

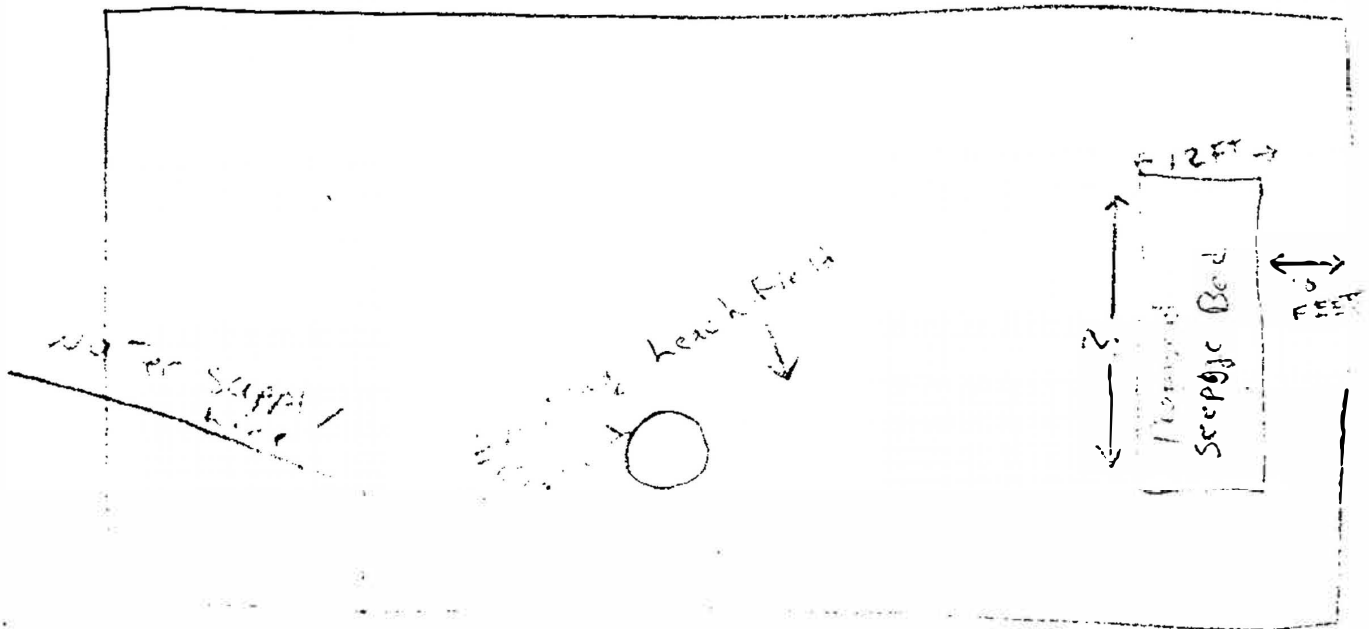




PLOT PLAN AND DESIGN FEATURES:

Include by measured distance location of wells, springs, potable water supply lines, cisterns, buildings, property lines, subsoil drains, lake, water course, stream, dry gulch and show location of proposed system by direction and distance from dwelling or other fixed reference object, and additional submissions in support of this application such as data, plans, specifications, statements and commitments.

No wells  
No springs



# **NEIGHBOR LETTERS**

Dear Ted White, Garfield County Health Department, and the County Commissions also serving as the County's Board of Health, Tom Jankovsky, John Martin, and Mike Samson.

My name is Jesus Arreola and as the owner of the property located at 258 Carlsbad TRL 12-29-24, Elk Creek Development Subdivision, New Castle, CO, I have no objections to my neighbor, Donald "Donnie" McCarthy, adding a second drywell to improve and extend the life of his septic system at 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie has provided me with a copy of this letter and the attached site plan map from his engineer which shows the location of the new second dry well that has no other reasonable alternate location due to the size of the lot and requires a variance approval from Garfield County for the follow setbacks:

The 2<sup>nd</sup> drywell will come within approximately 7 feet from the north property boundary instead of 10 feet, 4 feet from the western property boundary (Navajo St) instead of 10 feet, 20 feet from the water shut off instead of 25 feet and 10 feet from the foundation of McCarthy's manufactured home.

Jesus Arreola  
Signature and date

Estimado Ted White, Departamento de Salud del Condado de Garfield y las Comisiones del Condado que también actúan como Junta de Salud del Condado, Tom Jankovsky, John Martin y Mike Samson.

Mi nombre es \_\_\_\_\_ y como propietario de la propiedad ubicada en \_\_\_\_\_, Elk Creek Development Subdivision, New Castle, CO, no tengo objeciones a que mi vecino, Donald "Donnie" McCarthy, agregue un segundo pozo seco para mejorar y extender la vida útil de su sistema séptico en 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie me ha proporcionado una copia de esta carta y el plano del sitio adjunto de su ingeniero que muestra la ubicación del nuevo segundo pozo seco que no tiene otra ubicación alternativa razonable debido al tamaño del lote y requiere una aprobación de variación del condado de Garfield para los siguientes retranqueos:

El segundo pozo seco estará aproximadamente a 7 pies del límite norte de la propiedad en lugar de 10 pies, 4 pies del límite oeste de la propiedad (Navajo St) en lugar de 10 pies, 20 pies del cierre de agua en lugar de 25 pies y 10 pies de los cimientos de la casa prefabricada de McCarthy.

\_\_\_\_\_  
Firma y fecha

Dear Ted White, Garfield County Health Department, and the County Commissions also serving as the County's Board of Health, Tom Jankovsky, John Martin, and Mike Samson.

My name is \_\_\_\_\_ and as the owner of the property located at \_\_\_\_\_, Elk Creek Development Subdivision, New Castle, CO, I have no objections to my neighbor, Donald "Donnie" McCarthy, adding a second drywell to improve and extend the life of his septic system at 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie has provided me with a copy of this letter and the attached site plan map from his engineer which shows the location of the new second dry well that has no other reasonable alternate location due to the size of the lot and requires a variance approval from Garfield County for the follow setbacks:

The 2<sup>nd</sup> drywell will come within approximately 7 feet from the north property boundary instead of 10 feet, 4 feet from the western property boundary (Navajo St) instead of 10 feet, 20 feet from the water shut off instead of 25 feet and 10 feet from the foundation of McCarthy's manufactured home.

\_\_\_\_\_  
Signature and date

Estimado Ted White, Departamento de Salud del Condado de Garfield y las Comisiones del Condado que también actúan como Junta de Salud del Condado, Tom Jankovsky, John Martin y Mike Samson.

Mi nombre es Armando Gutierrez y como propietario de la propiedad ubicada en 125 Navajo St, Elk Creek Development Subdivision, New Castle, CO, no tengo objeciones a que mi vecino, Donald "Donnie" McCarthy, agregue un segundo pozo seco para mejorar y extender la vida útil de su sistema séptico en 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie me ha proporcionado una copia de esta carta y el plano del sitio adjunto de su ingeniero que muestra la ubicación del nuevo segundo pozo seco que no tiene otra ubicación alternativa razonable debido al tamaño del lote y requiere una aprobación de variación del condado de Garfield para los siguientes retranqueos:

El segundo pozo seco estará aproximadamente a 7 pies del límite norte de la propiedad en lugar de 10 pies, 4 pies del límite oeste de la propiedad (Navajo St) en lugar de 10 pies, 20 pies del cierre de agua en lugar de 25 pies y 10 pies de los cimientos de la casa prefabricada de McCarthy.

Armando Gutierrez ~ 12/29/24

Firma y fecha

Dear Ted White, Garfield County Health Department, and the County Commissions also serving as the County's Board of Health, Tom Jankovsky, John Martin, and Mike Samson.

My name is Eric Gonzalez and as the owner of the property located at 128 Navajo Street New Castle CO 81647, Elk Creek Development Subdivision, New Castle, CO, I have no objections to my neighbor, Donald "Donnie" McCarthy, adding a second drywell to improve and extend the life of his septic system at 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie has provided me with a copy of this letter and the attached site plan map from his engineer which shows the location of the new second dry well that has no other reasonable alternate location due to the size of the lot and requires a variance approval from Garfield County for the follow setbacks:

The 2<sup>nd</sup> drywell will come within approximately 7 feet from the north property boundary instead of 10 feet, 4 feet from the western property boundary (Navajo St) instead of 10 feet, 20 feet from the water shut off instead of 25 feet and 10 feet from the foundation of McCarthy's manufactured home.

  
Signature and date

12/08/24

970-930-2613

Estimado Ted White, Departamento de Salud del Condado de Garfield y las Comisiones del Condado que también actúan como Junta de Salud del Condado, Tom Jankovsky, John Martin y Mike Samson.

Mi nombre es \_\_\_\_\_ y como propietario de la propiedad ubicada en \_\_\_\_\_, Elk Creek Development Subdivision, New Castle, CO, no tengo objeciones a que mi vecino, Donald "Donnie" McCarthy, agregue un segundo pozo seco para mejorar y extender la vida útil de su sistema séptico en 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie me ha proporcionado una copia de esta carta y el plano del sitio adjunto de su ingeniero que muestra la ubicación del nuevo segundo pozo seco que no tiene otra ubicación alternativa razonable debido al tamaño del lote y requiere una aprobación de variación del condado de Garfield para los siguientes retranqueos:

El segundo pozo seco estará aproximadamente a 7 pies del límite norte de la propiedad en lugar de 10 pies, 4 pies del límite oeste de la propiedad (Navajo St) en lugar de 10 pies, 20 pies del cierre de agua en lugar de 25 pies y 10 pies de los cimientos de la casa prefabricada de McCarthy.

\_\_\_\_\_  
Firma y fecha

Dear Ted White, Garfield County Health Department, and the County Commissions also serving as the County's Board of Health, Tom Jankovsky, John Martin, and Mike Samson.

My name is \_\_\_\_\_ and as the owner of the property located at \_\_\_\_\_, Elk Creek Development Subdivision, New Castle, CO, I have no objections to my neighbor, Donald "Donnie" McCarthy, adding a second drywell to improve and extend the life of his septic system at 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie has provided me with a copy of this letter and the attached site plan map from his engineer which shows the location of the new second dry well that has no other reasonable alternate location due to the size of the lot and requires a variance approval from Garfield County for the follow setbacks:

The 2<sup>nd</sup> drywell will come within approximately 7 feet from the north property boundary instead of 10 feet, 4 feet from the western property boundary (Navajo St) instead of 10 feet, 20 feet from the water shut off instead of 25 feet and 10 feet from the foundation of McCarthy's manufactured home.

\_\_\_\_\_  
Signature and date

Estimado Ted White, Departamento de Salud del Condado de Garfield y las Comisiones del Condado que también actúan como Junta de Salud del Condado, Tom Jankovsky, John Martin y Mike Samson.

Mi nombre es IVAN Escalante y como propietario de la propiedad ubicada en 105 Navajo St New Castle, Co 81647, Elk Creek Development Subdivision, New Castle, CO, no tengo objeciones a que mi vecino, Donald "Donnie" McCarthy, agregue un segundo pozo seco para mejorar y extender la vida útil de su sistema séptico en 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie me ha proporcionado una copia de esta carta y el plano del sitio adjunto de su ingeniero que muestra la ubicación del nuevo segundo pozo seco que no tiene otra ubicación alternativa razonable debido al tamaño del lote y requiere una aprobación de variación del condado de Garfield para los siguientes retranqueos:

El segundo pozo seco estará aproximadamente a 7 pies del límite norte de la propiedad en lugar de 10 pies, 4 pies del límite oeste de la propiedad (Navajo St) en lugar de 10 pies, 20 pies del cierre de agua en lugar de 25 pies y 10 pies de los cimientos de la casa prefabricada de McCarthy.

IVAN Escalante 12-10-24  
Firma y fecha

Dear Ted White, Garfield County Health Department, and the County Commissions also serving as the County's Board of Health, Tom Jankovsky, John Martin, and Mike Samson.

My name is Robert M Dobbis 162 Navajo and as the owner of the property located at \_\_\_\_\_, Elk Creek Development Subdivision, New Castle, CO, I have no objections to my neighbor, Donald "Donnie" McCarthy, adding a second drywell to improve and extend the life of his septic system at 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie has provided me with a copy of this letter and the attached site plan map from his engineer which shows the location of the new second dry well that has no other reasonable alternate location due to the size of the lot and requires a variance approval from Garfield County for the follow setbacks:

The 2<sup>nd</sup> drywell will come within approximately 7 feet from the north property boundary instead of 10 feet, 4 feet from the western property boundary (Navajo St) instead of 10 feet, 20 feet from the water shut off instead of 25 feet and 10 feet from the foundation of McCarthy's manufactured home.

Robert M Dobbis 12/21/2024  
Signature and date

Estimado Ted White, Departamento de Salud del Condado de Garfield y las Comisiones del Condado que también actúan como Junta de Salud del Condado, Tom Jankovsky, John Martin y Mike Samson.

Mi nombre es \_\_\_\_\_ y como propietario de la propiedad ubicada en \_\_\_\_\_, Elk Creek Development Subdivision, New Castle, CO, no tengo objeciones a que mi vecino, Donald "Donnie" McCarthy, agregue un segundo pozo seco para mejorar y extender la vida útil de su sistema séptico en 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie me ha proporcionado una copia de esta carta y el plano del sitio adjunto de su ingeniero que muestra la ubicación del nuevo segundo pozo seco que no tiene otra ubicación alternativa razonable debido al tamaño del lote y requiere una aprobación de variación del condado de Garfield para los siguientes retranqueos:

El segundo pozo seco estará aproximadamente a 7 pies del límite norte de la propiedad en lugar de 10 pies, 4 pies del límite oeste de la propiedad (Navajo St) en lugar de 10 pies, 20 pies del cierre de agua en lugar de 25 pies y 10 pies de los cimientos de la casa prefabricada de McCarthy.

\_\_\_\_\_  
Firma y fecha

Dear Ted White, Garfield County Health Department, and the County Commissions also serving as the County's Board of Health, Tom Jankovsky, John Martin, and Mike Samson.

My name is F.C. Dollh and as the owner of the property located at 0163 Navajo, Elk Creek Development Subdivision, New Castle, CO, I have no objections to my neighbor, Donald "Donnie" McCarthy, adding a second drywell to improve and extend the life of his septic system at 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie has provided me with a copy of this letter and the attached site plan map from his engineer which shows the location of the new second dry well that has no other reasonable alternate location due to the size of the lot and requires a variance approval from Garfield County for the follow setbacks:

The 2<sup>nd</sup> drywell will come within approximately 7 feet from the north property boundary instead of 10 feet, 4 feet from the western property boundary (Navajo St) instead of 10 feet, 20 feet from the water shut off instead of 25 feet and 10 feet from the foundation of McCarthy's manufactured home.

F.C. Dollh      12-21-24  
Signature and date

Estimado Ted White, Departamento de Salud del Condado de Garfield y las Comisiones del Condado que también actúan como Junta de Salud del Condado, Tom Jankovsky, John Martin y Mike Samson.

Mi nombre es \_\_\_\_\_ y como propietario de la propiedad ubicada en \_\_\_\_\_, Elk Creek Development Subdivision, New Castle, CO, no tengo objeciones a que mi vecino, Donald "Donnie" McCarthy, agregue un segundo pozo seco para mejorar y extender la vida útil de su sistema séptico en 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie me ha proporcionado una copia de esta carta y el plano del sitio adjunto de su ingeniero que muestra la ubicación del nuevo segundo pozo seco que no tiene otra ubicación alternativa razonable debido al tamaño del lote y requiere una aprobación de variación del condado de Garfield para los siguientes retranqueos:

El segundo pozo seco estará aproximadamente a 7 pies del límite norte de la propiedad en lugar de 10 pies, 4 pies del límite oeste de la propiedad (Navajo St) en lugar de 10 pies, 20 pies del cierre de agua en lugar de 25 pies y 10 pies de los cimientos de la casa prefabricada de McCarthy.

\_\_\_\_\_  
Firma y fecha

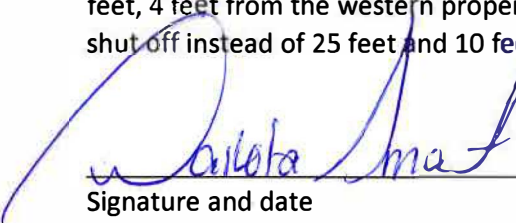


Dear Ted White, Garfield County Health Department, and the County Commissions also serving as the County's Board of Health, Tom Jankovsky, John Martin, and Mike Samson.

My name is Darlene Smart and as the owner of the property located at 1105 Navajo St New Castle, CO, Elk Creek Development Subdivision, New Castle, CO, I have no objections to my neighbor, Donald "Donnie" McCarthy, adding a second drywell to improve and extend the life of his septic system at 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie has provided me with a copy of this letter and the attached site plan map from his engineer which shows the location of the new second dry well that has no other reasonable alternate location due to the size of the lot and requires a variance approval from Garfield County for the follow setbacks:

The 2<sup>nd</sup> drywell will come within approximately 7 feet from the north property boundary instead of 10 feet, 4 feet from the western property boundary (Navajo St) instead of 10 feet, 20 feet from the water shut off instead of 25 feet and 10 feet from the foundation of McCarthy's manufactured home.

  
Signature and date

12/21/24

Estimado Ted White, Departamento de Salud del Condado de Garfield y las Comisiones del Condado que también actúan como Junta de Salud del Condado, Tom Jankovsky, John Martin y Mike Samson.

Mi nombre es \_\_\_\_\_ y como propietario de la propiedad ubicada en \_\_\_\_\_, Elk Creek Development Subdivision, New Castle, CO, no tengo objeciones a que mi vecino, Donald "Donnie" McCarthy, agregue un segundo pozo seco para mejorar y extender la vida útil de su sistema séptico en 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie me ha proporcionado una copia de esta carta y el plano del sitio adjunto de su ingeniero que muestra la ubicación del nuevo segundo pozo seco que no tiene otra ubicación alternativa razonable debido al tamaño del lote y requiere una aprobación de variación del condado de Garfield para los siguientes retranqueos:

El segundo pozo seco estará aproximadamente a 7 pies del límite norte de la propiedad en lugar de 10 pies, 4 pies del límite oeste de la propiedad (Navajo St) en lugar de 10 pies, 20 pies del cierre de agua en lugar de 25 pies y 10 pies de los cimientos de la casa prefabricada de McCarthy.

\_\_\_\_\_  
Firma y fecha

Dear Ted White, Garfield County Health Department, and the County Commissions also serving as the County's Board of Health, Tom Jankovsky, John Martin, and Mike Samson.

My name is Petro Carmona and as the owner of the property located at Suite, Elk Creek Development Subdivision, New Castle, CO, I have no objections to my neighbor, Donald "Donnie" McCarthy, adding a second drywell to improve and extend the life of his septic system at 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie has provided me with a copy of this letter and the attached site plan map from his engineer which shows the location of the new second dry well that has no other reasonable alternate location due to the size of the lot and requires a variance approval from Garfield County for the follow setbacks:

The 2<sup>nd</sup> drywell will come within approximately 7 feet from the north property boundary instead of 10 feet, 4 feet from the western property boundary (Navajo St) instead of 10 feet, 20 feet from the water shut off instead of 25 feet and 10 feet from the foundation of McCarthy's manufactured home.

Petro Carmona 12-19-2024  
Signature and date

Estimado Ted White, Departamento de Salud del Condado de Garfield y las Comisiones del Condado que también actúan como Junta de Salud del Condado, Tom Jankovsky, John Martin y Mike Samson.

Mi nombre es \_\_\_\_\_ y como propietario de la propiedad ubicada en \_\_\_\_\_, Elk Creek Development Subdivision, New Castle, CO, no tengo objeciones a que mi vecino, Donald "Donnie" McCarthy, agregue un segundo pozo seco para mejorar y extender la vida útil de su sistema séptico en 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie me ha proporcionado una copia de esta carta y el plano del sitio adjunto de su ingeniero que muestra la ubicación del nuevo segundo pozo seco que no tiene otra ubicación alternativa razonable debido al tamaño del lote y requiere una aprobación de variación del condado de Garfield para los siguientes retranqueos:

El segundo pozo seco estará aproximadamente a 7 pies del límite norte de la propiedad en lugar de 10 pies, 4 pies del límite oeste de la propiedad (Navajo St) en lugar de 10 pies, 20 pies del cierre de agua en lugar de 25 pies y 10 pies de los cimientos de la casa prefabricada de McCarthy.

\_\_\_\_\_  
Firma y fecha

Dear Ted White, Garfield County Health Department, and the County Commissions also serving as the County's Board of Health, Tom Jankovsky, John Martin, and Mike Samson.

My name is Al Navarra and as the owner of the property located at 21 Wite Ave New Castle Co, Elk Creek Development Subdivision, New Castle, CO, I have no objections to my neighbor, Donald "Donnie" McCarthy, adding a second drywell to improve and extend the life of his septic system at 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie has provided me with a copy of this letter and the attached site plan map from his engineer which shows the location of the new second dry well that has no other reasonable alternate location due to the size of the lot and requires a variance approval from Garfield County for the follow setbacks:

The 2<sup>nd</sup> drywell will come within approximately 7 feet from the north property boundary instead of 10 feet, 4 feet from the western property boundary (Navajo St) instead of 10 feet, 20 feet from the water shut off instead of 25 feet and 10 feet from the foundation of McCarthy's manufactured home.

Al Navarra 12/13/2024  
Signature and date

Estimado Ted White, Departamento de Salud del Condado de Garfield y las Comisiones del Condado que también actúan como Junta de Salud del Condado, Tom Jankovsky, John Martin y Mike Samson.

Mi nombre es \_\_\_\_\_ y como propietario de la propiedad ubicada en \_\_\_\_\_, Elk Creek Development Subdivision, New Castle, CO, no tengo objeciones a que mi vecino, Donald "Donnie" McCarthy, agregue un segundo pozo seco para mejorar y extender la vida útil de su sistema séptico en 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie me ha proporcionado una copia de esta carta y el plano del sitio adjunto de su ingeniero que muestra la ubicación del nuevo segundo pozo seco que no tiene otra ubicación alternativa razonable debido al tamaño del lote y requiere una aprobación de variación del condado de Garfield para los siguientes retranqueos:

El segundo pozo seco estará aproximadamente a 7 pies del límite norte de la propiedad en lugar de 10 pies, 4 pies del límite oeste de la propiedad (Navajo St) en lugar de 10 pies, 20 pies del cierre de agua en lugar de 25 pies y 10 pies de los cimientos de la casa prefabricada de McCarthy.

\_\_\_\_\_  
Firma y fecha

Dear Ted White, Garfield County Health Department, and the County Commissions also serving as the County's Board of Health, Tom Jankovsky, John Martin, and Mike Samson.

My name is VALERIE KEITH and as the owner of the property located at ST LITE AVE New Castle Co, Elk Creek Development Subdivision, New Castle, CO, I have no objections to my neighbor, Donald "Donnie" McCarthy, adding a second drywell to improve and extend the life of his septic system at 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie has provided me with a copy of this letter and the attached site plan map from his engineer which shows the location of the new second dry well that has no other reasonable alternate location due to the size of the lot and requires a variance approval from Garfield County for the follow setbacks:

The 2<sup>nd</sup> drywell will come within approximately 7 feet from the north property boundary instead of 10 feet, 4 feet from the western property boundary (Navajo St) instead of 10 feet, 20 feet from the water shut off instead of 25 feet and 10 feet from the foundation of McCarthy's manufactured home.

Valerie Keith 12-15-24  
Signature and date

Estimado Ted White, Departamento de Salud del Condado de Garfield y las Comisiones del Condado que también actúan como Junta de Salud del Condado, Tom Jankovsky, John Martin y Mike Samson.

Mi nombre es \_\_\_\_\_ y como propietario de la propiedad ubicada en \_\_\_\_\_, Elk Creek Development Subdivision, New Castle, CO, no tengo objeciones a que mi vecino, Donald "Donnie" McCarthy, agregue un segundo pozo seco para mejorar y extender la vida útil de su sistema séptico en 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie me ha proporcionado una copia de esta carta y el plano del sitio adjunto de su ingeniero que muestra la ubicación del nuevo segundo pozo seco que no tiene otra ubicación alternativa razonable debido al tamaño del lote y requiere una aprobación de variación del condado de Garfield para los siguientes retranqueos:

El segundo pozo seco estará aproximadamente a 7 pies del límite norte de la propiedad en lugar de 10 pies, 4 pies del límite oeste de la propiedad (Navajo St) en lugar de 10 pies, 20 pies del cierre de agua en lugar de 25 pies y 10 pies de los cimientos de la casa prefabricada de McCarthy.

\_\_\_\_\_  
Firma y fecha

Dear Ted White, Garfield County Health Department, and the County Commissions also serving as the County's Board of Health, Tom Jankovsky, John Martin, and Mike Samson.

My name is Gilbert Lowe and as the owner of the property located at 57 WIE AVE NEW CASTLE CO. 81647, Elk Creek Development Subdivision, New Castle, CO, I have no objections to my neighbor, Donald "Donnie" McCarthy, adding a second drywell to improve and extend the life of his septic system at 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie has provided me with a copy of this letter and the attached site plan map from his engineer which shows the location of the new second dry well that has no other reasonable alternate location due to the size of the lot and requires a variance approval from Garfield County for the follow setbacks:

The 2<sup>nd</sup> drywell will come within approximately 7 feet from the north property boundary instead of 10 feet, 4 feet from the western property boundary (Navajo St) instead of 10 feet, 20 feet from the water shut off instead of 25 feet and 10 feet from the foundation of McCarthy's manufactured home.

 12-14-24  
Signature and date

Estimado Ted White, Departamento de Salud del Condado de Garfield y las Comisiones del Condado que también actúan como Junta de Salud del Condado, Tom Jankovsky, John Martin y Mike Samson.

Mi nombre es \_\_\_\_\_ y como propietario de la propiedad ubicada en \_\_\_\_\_, Elk Creek Development Subdivision, New Castle, CO, no tengo objeciones a que mi vecino, Donald "Donnie" McCarthy, agregue un segundo pozo seco para mejorar y extender la vida útil de su sistema séptico en 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie me ha proporcionado una copia de esta carta y el plano del sitio adjunto de su ingeniero que muestra la ubicación del nuevo segundo pozo seco que no tiene otra ubicación alternativa razonable debido al tamaño del lote y requiere una aprobación de variación del condado de Garfield para los siguientes retranqueos:

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\_\_\_\_\_  
Firma y fecha

Dear Ted White, Garfield County Health Department, and the County Commissions also serving as the County's Board of Health, Tom Jankovsky, John Martin, and Mike Samson.

My name is STEVE BEALLIEN and as the owner of the property located at 76 COMANCHERO TRL, NEW CASTLE, Elk Creek Development Subdivision, New Castle, CO, I have no objections to my neighbor, Donald "Donnie" McCarthy, adding a second drywell to improve and extend the life of his septic system at 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie has provided me with a copy of this letter and the attached site plan map from his engineer which shows the location of the new second dry well that has no other reasonable alternate location due to the size of the lot and requires a variance approval from Garfield County for the follow setbacks:

The 2<sup>nd</sup> drywell will come within approximately 7 feet from the north property boundary instead of 10 feet, 4 feet from the western property boundary (Navajo St) instead of 10 feet, 20 feet from the water shut off instead of 25 feet and 10 feet from the foundation of McCarthy's manufactured home.

 12/14/24

Signature and date

Estimado Ted White, Departamento de Salud del Condado de Garfield y las Comisiones del Condado que también actúan como Junta de Salud del Condado, Tom Jankovsky, John Martin y Mike Samson.

Mi nombre es \_\_\_\_\_ y como propietario de la propiedad ubicada en \_\_\_\_\_, Elk Creek Development Subdivision, New Castle, CO, no tengo objeciones a que mi vecino, Donald "Donnie" McCarthy, agregue un segundo pozo seco para mejorar y extender la vida útil de su sistema séptico en 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie me ha proporcionado una copia de esta carta y el plano del sitio adjunto de su ingeniero que muestra la ubicación del nuevo segundo pozo seco que no tiene otra ubicación alternativa razonable debido al tamaño del lote y requiere una aprobación de variación del condado de Garfield para los siguientes retranqueos:

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\_\_\_\_\_  
Firma y fecha

Dear Ted White, Garfield County Health Department, and the County Commissions also serving as the County's Board of Health, Tom Jankovsky, John Martin, and Mike Samson.

My name is Joseph Todd and as the owner of the property located at 170 Comanchero Trail, Elk Creek Development Subdivision, New Castle, CO, I have no objections to my neighbor, Donald "Donnie" McCarthy, adding a second drywell to improve and extend the life of his septic system at 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie has provided me with a copy of this letter and the attached site plan map from his engineer which shows the location of the new second dry well that has no other reasonable alternate location due to the size of the lot and requires a variance approval from Garfield County for the follow setbacks:

The 2<sup>nd</sup> drywell will come within approximately 7 feet from the north property boundary instead of 10 feet, 4 feet from the western property boundary (Navajo St) instead of 10 feet, 20 feet from the water shut off instead of 25 feet and 10 feet from the foundation of McCarthy's manufactured home.

 12/13/2025  
Signature and date

Estimado Ted White, Departamento de Salud del Condado de Garfield y las Comisiones del Condado que también actúan como Junta de Salud del Condado, Tom Jankovsky, John Martin y Mike Samson.

Mi nombre es \_\_\_\_\_ y como propietario de la propiedad ubicada en \_\_\_\_\_, Elk Creek Development Subdivision, New Castle, CO, no tengo objeciones a que mi vecino, Donald "Donnie" McCarthy, agregue un segundo pozo seco para mejorar y extender la vida útil de su sistema séptico en 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie me ha proporcionado una copia de esta carta y el plano del sitio adjunto de su ingeniero que muestra la ubicación del nuevo segundo pozo seco que no tiene otra ubicación alternativa razonable debido al tamaño del lote y requiere una aprobación de variación del condado de Garfield para los siguientes retranqueos:

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\_\_\_\_\_  
Firma y fecha

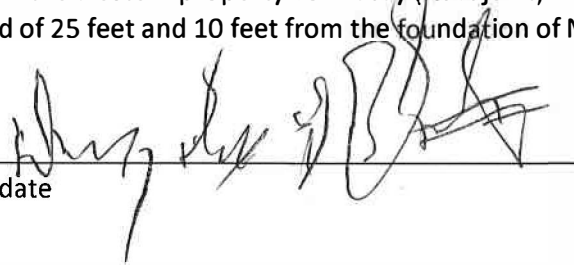
Dear Ted White, Garfield County Health Department, and the County Commissions also serving as the County's Board of Health, Tom Jankovsky, John Martin, and Mike Samson.

My name is Doug Christine and as the owner of the property located at 169 Colmancher Trail, Elk Creek Development Subdivision, New Castle, CO, I have no objections to my neighbor, Donald "Donnie" McCarthy, adding a second drywell to improve and extend the life of his septic system at 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie has provided me with a copy of this letter and the attached site plan map from his engineer which shows the location of the new second dry well that has no other reasonable alternate location due to the size of the lot and requires a variance approval from Garfield County for the follow setbacks:

The 2<sup>nd</sup> drywell will come within approximately 7 feet from the north property boundary instead of 10 feet, 4 feet from the western property boundary (Navajo St) instead of 10 feet, 20 feet from the water shut off instead of 25 feet and 10 feet from the foundation of McCarthy's manufactured home.

Signature and date

 12/10/2024

Estimado Ted White, Departamento de Salud del Condado de Garfield y las Comisiones del Condado que también actúan como Junta de Salud del Condado, Tom Jankovsky, John Martin y Mike Samson.

Mi nombre es \_\_\_\_\_ y como propietario de la propiedad ubicada en \_\_\_\_\_, Elk Creek Development Subdivision, New Castle, CO, no tengo objeciones a que mi vecino, Donald "Donnie" McCarthy, agregue un segundo pozo seco para mejorar y extender la vida útil de su sistema séptico en 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie me ha proporcionado una copia de esta carta y el plano del sitio adjunto de su ingeniero que muestra la ubicación del nuevo segundo pozo seco que no tiene otra ubicación alternativa razonable debido al tamaño del lote y requiere una aprobación de variación del condado de Garfield para los siguientes retranqueos:

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\_\_\_\_\_  
Firma y fecha



Dear Ted White, Garfield County Health Department, and the County Commissions also serving as the County's Board of Health, Tom Jankovsky, John Martin, and Mike Samson.

My name is MIKE COWN and as the owner of the property located at 191 COMANCHERO TRL, Elk Creek Development Subdivision, New Castle, CO, I have no objections to my neighbor, Donald "Donnie" McCarthy, adding a second drywell to improve and extend the life of his septic system at 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie has provided me with a copy of this letter and the attached site plan map from his engineer which shows the location of the new second dry well that has no other reasonable alternate location due to the size of the lot and requires a variance approval from Garfield County for the follow setbacks:

The 2<sup>nd</sup> drywell will come within approximately 7 feet from the north property boundary instead of 10 feet, 4 feet from the western property boundary (Navajo St) instead of 10 feet, 20 feet from the water shut off instead of 25 feet and 10 feet from the foundation of McCarthy's manufactured home.

  
Signature and date

Estimado Ted White, Departamento de Salud del Condado de Garfield y las Comisiones del Condado que también actúan como Junta de Salud del Condado, Tom Jankovsky, John Martin y Mike Samson.

Mi nombre es \_\_\_\_\_ y como propietario de la propiedad ubicada en \_\_\_\_\_, Elk Creek Development Subdivision, New Castle, CO, no tengo objeciones a que mi vecino, Donald "Donnie" McCarthy, agregue un segundo pozo seco para mejorar y extender la vida útil de su sistema séptico en 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie me ha proporcionado una copia de esta carta y el plano del sitio adjunto de su ingeniero que muestra la ubicación del nuevo segundo pozo seco que no tiene otra ubicación alternativa razonable debido al tamaño del lote y requiere una aprobación de variación del condado de Garfield para los siguientes retranqueos:

El segundo pozo seco estará aproximadamente a 7 pies del límite norte de la propiedad en lugar de 10 pies, 4 pies del límite oeste de la propiedad (Navajo St) en lugar de 10 pies, 20 pies del cierre de agua en lugar de 25 pies y 10 pies de los cimientos de la casa prefabricada de McCarthy.

\_\_\_\_\_  
Firma y fecha

Dear Ted White, Garfield County Health Department, and the County Commissions also serving as the County's Board of Health, Tom Jankovsky, John Martin, and Mike Samson.

My name is Janet Muttillo and as the owner of the property located at 204 Comanche Trail, New Castle CO 81647, Elk Creek Development Subdivision, New Castle, CO, I have no objections to my neighbor, Donald "Donnie" McCarthy, adding a second drywell to improve and extend the life of his septic system at 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie has provided me with a copy of this letter and the attached site plan map from his engineer which shows the location of the new second dry well that has no other reasonable alternate location due to the size of the lot and requires a variance approval from Garfield County for the follow setbacks:

The 2<sup>nd</sup> drywell will come within approximately 7 feet from the north property boundary instead of 10 feet, 4 feet from the western property boundary (Navajo St) instead of 10 feet, 20 feet from the water shut off instead of 25 feet and 10 feet from the foundation of McCarthy's manufactured home.

Janet M Muttillo  
Signature and date

Estimado Ted White, Departamento de Salud del Condado de Garfield y las Comisiones del Condado que también actúan como Junta de Salud del Condado, Tom Jankovsky, John Martin y Mike Samson.

Mi nombre es \_\_\_\_\_ y como propietario de la propiedad ubicada en \_\_\_\_\_, Elk Creek Development Subdivision, New Castle, CO, no tengo objeciones a que mi vecino, Donald "Donnie" McCarthy, agregue un segundo pozo seco para mejorar y extender la vida útil de su sistema séptico en 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie me ha proporcionado una copia de esta carta y el plano del sitio adjunto de su ingeniero que muestra la ubicación del nuevo segundo pozo seco que no tiene otra ubicación alternativa razonable debido al tamaño del lote y requiere una aprobación de variación del condado de Garfield para los siguientes retranqueos:

El segundo pozo seco estará aproximadamente a 7 pies del límite norte de la propiedad en lugar de 10 pies, 4 pies del límite oeste de la propiedad (Navajo St) en lugar de 10 pies, 20 pies del cierre de agua en lugar de 25 pies y 10 pies de los cimientos de la casa prefabricada de McCarthy.

\_\_\_\_\_  
Firma y fecha

Dear Ted White, Garfield County Health Department, and the County Commissions also serving as the County's Board of Health, Tom Jankovsky, John Martin, and Mike Samson.

My name is Ron Reed and as the owner of the property located at 218 Comanchero Trl, Elk Creek Development Subdivision, New Castle, CO, I have no objections to my neighbor, Donald "Donnie" McCarthy, adding a second drywell to improve and extend the life of his septic system at 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie has provided me with a copy of this letter and the attached site plan map from his engineer which shows the location of the new second dry well that has no other reasonable alternate location due to the size of the lot and requires a variance approval from Garfield County for the follow setbacks:

The 2<sup>nd</sup> drywell will come within approximately 7 feet from the north property boundary instead of 10 feet, 4 feet from the western property boundary (Navajo St) instead of 10 feet, 20 feet from the water shut off instead of 25 feet and 10 feet from the foundation of McCarthy's manufactured home.

Ronald Reed 12/26/24

Signature and date

Estimado Ted White, Departamento de Salud del Condado de Garfield y las Comisiones del Condado que también actúan como Junta de Salud del Condado, Tom Jankovsky, John Martin y Mike Samson.

Mi nombre es \_\_\_\_\_ y como propietario de la propiedad ubicada en \_\_\_\_\_, Elk Creek Development Subdivision, New Castle, CO, no tengo objeciones a que mi vecino, Donald "Donnie" McCarthy, agregue un segundo pozo seco para mejorar y extender la vida útil de su sistema séptico en 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie me ha proporcionado una copia de esta carta y el plano del sitio adjunto de su ingeniero que muestra la ubicación del nuevo segundo pozo seco que no tiene otra ubicación alternativa razonable debido al tamaño del lote y requiere una aprobación de variación del condado de Garfield para los siguientes retranqueos:

El segundo pozo seco estará aproximadamente a 7 pies del límite norte de la propiedad en lugar de 10 pies, 4 pies del límite oeste de la propiedad (Navajo St) en lugar de 10 pies, 20 pies del cierre de agua en lugar de 25 pies y 10 pies de los cimientos de la casa prefabricada de McCarthy.

\_\_\_\_\_  
Firma y fecha

Dear Ted White, Garfield County Health Department, and the County Commissions also serving as the County's Board of Health, Tom Jankovsky, John Martin, and Mike Samson.

My name is Lawrence G. Watkins III and as the owner of the property located at 285 Comanchero Trl, Elk Creek Development Subdivision, New Castle, CO, I have no objections to my neighbor, Donald "Donnie" McCarthy, adding a second drywell to improve and extend the life of his septic system at 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie has provided me with a copy of this letter and the attached site plan map from his engineer which shows the location of the new second dry well that has no other reasonable alternate location due to the size of the lot and requires a variance approval from Garfield County for the follow setbacks:

The 2<sup>nd</sup> drywell will come within approximately 7 feet from the north property boundary instead of 10 feet, 4 feet from the western property boundary (Navajo St) instead of 10 feet, 20 feet from the water shut off instead of 25 feet and 10 feet from the foundation of McCarthy's manufactured home.

 12-23-2024

Signature and date

Estimado Ted White, Departamento de Salud del Condado de Garfield y las Comisiones del Condado que también actúan como Junta de Salud del Condado, Tom Jankovsky, John Martin y Mike Samson.

Mi nombre es \_\_\_\_\_ y como propietario de la propiedad ubicada en \_\_\_\_\_, Elk Creek Development Subdivision, New Castle, CO, no tengo objeciones a que mi vecino, Donald "Donnie" McCarthy, agregue un segundo pozo seco para mejorar y extender la vida útil de su sistema séptico en 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie me ha proporcionado una copia de esta carta y el plano del sitio adjunto de su ingeniero que muestra la ubicación del nuevo segundo pozo seco que no tiene otra ubicación alternativa razonable debido al tamaño del lote y requiere una aprobación de variación del condado de Garfield para los siguientes retranqueos:

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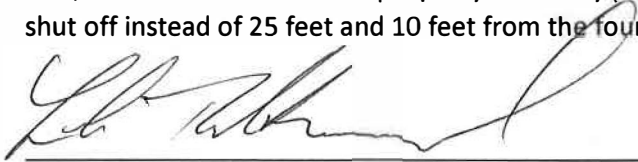
\_\_\_\_\_  
Firma y fecha

Dear Ted White, Garfield County Health Department, and the County Commissions also serving as the County's Board of Health, Tom Jankovsky, John Martin, and Mike Samson.

My name is Lucas TenHarnsel and as the owner of the property located at 15 Apache Dr., Elk Creek Development Subdivision, New Castle, CO, I have no objections to my neighbor, Donald "Donnie" McCarthy, adding a second drywell to improve and extend the life of his septic system at 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie has provided me with a copy of this letter and the attached site plan map from his engineer which shows the location of the new second dry well that has no other reasonable alternate location due to the size of the lot and requires a variance approval from Garfield County for the follow setbacks:

The 2<sup>nd</sup> drywell will come within approximately 7 feet from the north property boundary instead of 10 feet, 4 feet from the western property boundary (Navajo St) instead of 10 feet, 20 feet from the water shut off instead of 25 feet and 10 feet from the foundation of McCarthy's manufactured home.

 12/15/2024

Signature and date

Estimado Ted White, Departamento de Salud del Condado de Garfield y las Comisiones del Condado que también actúan como Junta de Salud del Condado, Tom Jankovsky, John Martin y Mike Samson.

Mi nombre es \_\_\_\_\_ y como propietario de la propiedad ubicada en \_\_\_\_\_, Elk Creek Development Subdivision, New Castle, CO, no tengo objeciones a que mi vecino, Donald "Donnie" McCarthy, agregue un segundo pozo seco para mejorar y extender la vida útil de su sistema séptico en 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie me ha proporcionado una copia de esta carta y el plano del sitio adjunto de su ingeniero que muestra la ubicación del nuevo segundo pozo seco que no tiene otra ubicación alternativa razonable debido al tamaño del lote y requiere una aprobación de variación del condado de Garfield para los siguientes retranqueos:

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\_\_\_\_\_  
Firma y fecha

Dear Ted White, Garfield County Health Department, and the County Commissions also serving as the County's Board of Health, Tom Jankovsky, John Martin, and Mike Samson.

My name is Luke Watson and as the owner of the property located at 71 Apache Dr, Elk Creek Development Subdivision, New Castle, CO, I have no objections to my neighbor, Donald "Donnie" McCarthy, adding a second drywell to improve and extend the life of his septic system at 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie has provided me with a copy of this letter and the attached site plan map from his engineer which shows the location of the new second dry well that has no other reasonable alternate location due to the size of the lot and requires a variance approval from Garfield County for the follow setbacks:

The 2<sup>nd</sup> drywell will come within approximately 7 feet from the north property boundary instead of 10 feet, 4 feet from the western property boundary (Navajo St) instead of 10 feet, 20 feet from the water shut off instead of 25 feet and 10 feet from the foundation of McCarthy's manufactured home.

 12/13/24  
Signature and date

Estimado Ted White, Departamento de Salud del Condado de Garfield y las Comisiones del Condado que también actúan como Junta de Salud del Condado, Tom Jankovsky, John Martin y Mike Samson.

Mi nombre es \_\_\_\_\_ y como propietario de la propiedad ubicada en \_\_\_\_\_, Elk Creek Development Subdivision, New Castle, CO, no tengo objeciones a que mi vecino, Donald "Donnie" McCarthy, agregue un segundo pozo seco para mejorar y extender la vida útil de su sistema séptico en 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie me ha proporcionado una copia de esta carta y el plano del sitio adjunto de su ingeniero que muestra la ubicación del nuevo segundo pozo seco que no tiene otra ubicación alternativa razonable debido al tamaño del lote y requiere una aprobación de variación del condado de Garfield para los siguientes retranqueos:

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\_\_\_\_\_  
Firma y fecha

Dear Ted White, Garfield County Health Department, and the County Commissions also serving as the County's Board of Health, Tom Jankovsky, John Martin, and Mike Samson.

My name is Eileen/Rick Koch and as the owner of the property located at 40 Apache Dr. New Castle, Elk Creek Development Subdivision, New Castle, CO, I have no objections to my neighbor, Donald "Donnie" McCarthy, adding a second drywell to improve and extend the life of his septic system at 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie has provided me with a copy of this letter and the attached site plan map from his engineer which shows the location of the new second dry well that has no other reasonable alternate location due to the size of the lot and requires a variance approval from Garfield County for the follow setbacks:

The 2<sup>nd</sup> drywell will come within approximately 7 feet from the north property boundary instead of 10 feet, 4 feet from the western property boundary (Navajo St) instead of 10 feet, 20 feet from the water shut off instead of 25 feet and 10 feet from the foundation of McCarthy's manufactured home.

Eileen Koch 12/14/24 [Signature] 12-14-24  
Signature and date

Estimado Ted White, Departamento de Salud del Condado de Garfield y las Comisiones del Condado que también actúan como Junta de Salud del Condado, Tom Jankovsky, John Martin y Mike Samson.

Mi nombre es \_\_\_\_\_ y como propietario de la propiedad ubicada en \_\_\_\_\_, Elk Creek Development Subdivision, New Castle, CO, no tengo objeciones a que mi vecino, Donald "Donnie" McCarthy, agregue un segundo pozo seco para mejorar y extender la vida útil de su sistema séptico en 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie me ha proporcionado una copia de esta carta y el plano del sitio adjunto de su ingeniero que muestra la ubicación del nuevo segundo pozo seco que no tiene otra ubicación alternativa razonable debido al tamaño del lote y requiere una aprobación de variación del condado de Garfield para los siguientes retranqueos:

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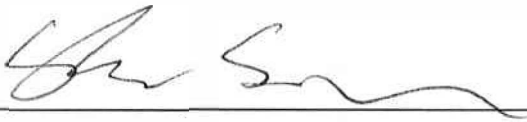
\_\_\_\_\_  
Firma y fecha

Dear Ted White, Garfield County Health Department, and the County Commissions also serving as the County's Board of Health, Tom Jankovsky, John Martin, and Mike Samson.

My name is Shane Sorensen and as the owner of the property located at 0140 Apache Drive, Elk Creek Development Subdivision, New Castle, CO, I have no objections to my neighbor, Donald "Donnie" McCarthy, adding a second drywell to improve and extend the life of his septic system at 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie has provided me with a copy of this letter and the attached site plan map from his engineer which shows the location of the new second dry well that has no other reasonable alternate location due to the size of the lot and requires a variance approval from Garfield County for the follow setbacks:

The 2<sup>nd</sup> drywell will come within approximately 7 feet from the north property boundary instead of 10 feet, 4 feet from the western property boundary (Navajo St) instead of 10 feet, 20 feet from the water shut off instead of 25 feet and 10 feet from the foundation of McCarthy's manufactured home.

  
Signature and date 12/14/2024

Estimado Ted White, Departamento de Salud del Condado de Garfield y las Comisiones del Condado que también actúan como Junta de Salud del Condado, Tom Jankovsky, John Martin y Mike Samson.

Mi nombre es \_\_\_\_\_ y como propietario de la propiedad ubicada en \_\_\_\_\_, Elk Creek Development Subdivision, New Castle, CO, no tengo objeciones a que mi vecino, Donald "Donnie" McCarthy, agregue un segundo pozo seco para mejorar y extender la vida útil de su sistema séptico en 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie me ha proporcionado una copia de esta carta y el plano del sitio adjunto de su ingeniero que muestra la ubicación del nuevo segundo pozo seco que no tiene otra ubicación alternativa razonable debido al tamaño del lote y requiere una aprobación de variación del condado de Garfield para los siguientes retranqueos:

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\_\_\_\_\_  
Firma y fecha

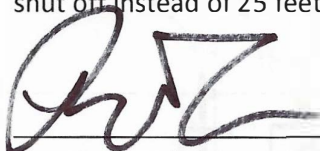


Dear Ted White, Garfield County Health Department, and the County Commissions also serving as the County's Board of Health, Tom Jankovsky, John Martin, and Mike Samson.

My name is Ricci Lasey and as the owner of the property located at 261 Comanche Trail, Elk Creek Development Subdivision, New Castle, CO, I have no objections to my neighbor, Donald "Donnie" McCarthy, adding a second drywell to improve and extend the life of his septic system at 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie has provided me with a copy of this letter and the attached site plan map from his engineer which shows the location of the new second dry well that has no other reasonable alternate location due to the size of the lot and requires a variance approval from Garfield County for the follow setbacks:

The 2<sup>nd</sup> drywell will come within approximately 7 feet from the north property boundary instead of 10 feet, 4 feet from the western property boundary (Navajo St) instead of 10 feet, 20 feet from the water shut off instead of 25 feet and 10 feet from the foundation of McCarthy's manufactured home.



1/4/25

Signature and date

Estimado Ted White, Departamento de Salud del Condado de Garfield y las Comisiones del Condado que también actúan como Junta de Salud del Condado, Tom Jankovsky, John Martin y Mike Samson.

Mi nombre es \_\_\_\_\_ y como propietario de la propiedad ubicada en \_\_\_\_\_, Elk Creek Development Subdivision, New Castle, CO, no tengo objeciones a que mi vecino, Donald "Donnie" McCarthy, agregue un segundo pozo seco para mejorar y extender la vida útil de su sistema séptico en 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie me ha proporcionado una copia de esta carta y el plano del sitio adjunto de su ingeniero que muestra la ubicación del nuevo segundo pozo seco que no tiene otra ubicación alternativa razonable debido al tamaño del lote y requiere una aprobación de variación del condado de Garfield para los siguientes retranqueos:

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\_\_\_\_\_  
Firma y fecha

Dear Ted White, Garfield County Health Department, and the County Commissions also serving as the County's Board of Health, Tom Jankovsky, John Martin, and Mike Samson.

My name is Brian Schwore and as the owner of the property located at 271 Comanche Tr, Elk Creek Development Subdivision, New Castle, CO, I have no objections to my neighbor, Donald "Donnie" McCarthy, adding a second drywell to improve and extend the life of his septic system at 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie has provided me with a copy of this letter and the attached site plan map from his engineer which shows the location of the new second dry well that has no other reasonable alternate location due to the size of the lot and requires a variance approval from Garfield County for the follow setbacks:

The 2<sup>nd</sup> drywell will come within approximately 7 feet from the north property boundary instead of 10 feet, 4 feet from the western property boundary (Navajo St) instead of 10 feet, 20 feet from the water shut off instead of 25 feet and 10 feet from the foundation of McCarthy's manufactured home.

Brian Schwore 1/2/2025  
Signature and date

Estimado Ted White, Departamento de Salud del Condado de Garfield y las Comisiones del Condado que también actúan como Junta de Salud del Condado, Tom Jankovsky, John Martin y Mike Samson.

Mi nombre es \_\_\_\_\_ y como propietario de la propiedad ubicada en \_\_\_\_\_, Elk Creek Development Subdivision, New Castle, CO, no tengo objeciones a que mi vecino, Donald "Donnie" McCarthy, agregue un segundo pozo seco para mejorar y extender la vida útil de su sistema séptico en 112 Navajo Street, Lot 11, Elk Creek Subdivision, New Castle, CO.

Donnie me ha proporcionado una copia de esta carta y el plano del sitio adjunto de su ingeniero que muestra la ubicación del nuevo segundo pozo seco que no tiene otra ubicación alternativa razonable debido al tamaño del lote y requiere una aprobación de variación del condado de Garfield para los siguientes retranqueos:

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\_\_\_\_\_  
Firma y fecha

**PUBLIC NOTICE CERTIFIED LETTER RECEIPTS**

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

BRIAN P SCHWARZ  
 REVOCABLE LIVING TRUST  
 271 COMANCHERO TRAIL  
 NEW CASTLE CO 81647



9590 9402 8700 3310 8358 64

2. Article Number (Transfer from service label)

7022 3330 0000 5848 8430

PS Form 3811, July 2020 PSN 7530-02-000-9053

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X *Brian Schwarz*  Agent  
 Addressee

B. Received by (Printed Name)

*Brian Schwarz*

C. Date of Delivery

*1-24-25*

D. Is delivery address different from item 1?  Yes  
 If YES, enter delivery address below:  No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

LAWRENCE G & LYNNIC WATKINS  
 285 COMANCHERO TRAIL  
 NEW CASTLE, CO 81647



9590 9402 8700 3310 8358 57

2. Article Number (Transfer from service label)

7022 3330 0000 5848 8461

PS Form 3811, July 2020 PSN 7530-02-000-9053

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X *L.G. Watkins*  Agent  
 Addressee

B. Received by (Printed Name)

*L.G. WATKINS III*

C. Date of Delivery

*1-24-25*

D. Is delivery address different from item 1?  Yes  
 If YES, enter delivery address below:  No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Domestic Return Receipt

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

RICCI ALLEN LASCO  
 DONTE JA DEADWIKER  
 261 COMANCHERO TRAIL  
 NEW CASTLE, CO 81647



9590 9402 8700 3310 8358 71

2. Article Number (Transfer from service label)

7022 3330 0000 5848 8447

PS Form 3811, July 2020 PSN 7530-02-000-9053

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X *[Signature]*

- Agent
- Addressee

B. Received by (Printed Name)

Demetrius Hankins

C. Date of Delivery

7-21-25

D. Is delivery address different from item 1?  Yes

If YES, enter delivery address below:

No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Domestic Return Receipt

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

ARMANDO GUTIERREZ  
 125 NAVAJO ST  
 NEW CASTLE, CO 81647



9590 9402 8700 3310 8358 40

2. Article Number (Transfer from service label)

7022 3330 0000 5848 8454

PS Form 3811, July 2020 PSN 7530-02-000-9053

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X *[Signature]*

- Agent
- Addressee

B. Received by (Printed Name)

Armando Gutierrez

C. Date of Delivery

7-24-25

D. Is delivery address different from item 1?  Yes

If YES, enter delivery address below:

No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Domestic Return Receipt

# **OWTS DESIGN PACKET**



129 CAINS LANE  
CARBONDALE, CO 81623  
970.309.5259  
[CARLA.OSTBERG@GMAIL.COM](mailto:CARLA.OSTBERG@GMAIL.COM)

June 2, 2024

Project No. C1884

Donnie McCarthy and Jeanne Casey  
[donniemccarthy@yahoo.com](mailto:donniemccarthy@yahoo.com)  
[casey4homes@yahoo.com](mailto:casey4homes@yahoo.com)

Onsite Wastewater Treatment System Design  
3-Bedroom Residence  
112 Navajo Street  
Garfield County, Colorado

Donnie and Jeanne,

CBO Inc. performed a subsurface investigation and completed an onsite wastewater treatment system (OWTS) design for the subject residence. The 6,600 square foot property is located outside of New Castle, in an area where OWTSs are necessary.

Legal Description: Section: 25 Township: 5 Range: 91 Subdivision: ELK CREEK DEV. Block: 3 Lot: 11  
UNIT 1 6600 SQ FT  
Parcel ID: 2125-251-02-018

### **SITE CONDITIONS**

The property was previously combined with Lot 10 to the north. When the property was subdivided, each lot installed separate OWTSs to serve the separate residences. The property is currently developed with a 3-bedroom manufactured home. The residence is served by an existing OWTS. The OWTS consists of a 1000-gallon, two-compartment concrete septic tank followed by a 14' x 15.5' x 10' deep drywell (or seepage pit). Garfield County Individual Sewage Disposal System (ISDS) Permit 3240 documents the system. The system was sized to accommodate 3 bedrooms. The permit received final approval on September 21, 1999.

The existing seepage pit is experiencing slow draining and there is a desire to upgrade the OWTS to the extent possible. The property is constrained and certain setbacks will be encroached on. Garfield County OWTS Regulation 43.4.L.6 states:

*"For the repair of or upgrade to an existing system where the existing system does not meet the required separation distances and where conditions other than lot size precludes adherence to the required distances, a variance to the separation distances may be requested. The repairs or upgrade must be no closer to features requiring setbacks than the existing facilities. Variances requesting setbacks no closer than existing setbacks do not have to provide technical justification from a professional engineer or professional geologist."*

The residence is served by a community water system. The curb stop is located on the west side of the property. The water line enters the south side of the residence. The new, proposed seepage pit will be approximately 20-feet from the curb stop.

The proposed seepage pit will come within approximately 7-feet from the northern property boundary, 4-feet from the western property boundary, and 10-feet from the foundation for the manufactured home. The proposed soil treatment area (STA) location is located in the driveway on the west side of the residence due to there being no other reasonable alternate locations on the property.

Garfield County OWTS Regulation 43.10.I states

*"When space is not available or if there are other site limitations that preclude other soil treatment area options for OWTS repairs, wide beds, deep gravel trenches, deep beds and seepage pits may be considered for repairs only."*

## SUBSURFACE

We have researched soils in the area through USGS Web Soil Survey. The report is enclosed. The area of the proposed STA is identified by map unit symbol 58. The map unit name is Potts-Ildefonso complex, 12 to 25% slopes. Typical soil profile from 0 to 4-inches consist of loam, 4 to 28-inches consist of clay loam, and 28 to 60-inches consist of loam.

Garfield County ISDS Permit 3240 documents the percolation rate of 30 minutes per inch (MPI).

Based on information provided from the available documented resources and our knowledge of soils in the area, we are assuming soils to be consistent with Soil Type 2. The proposed STA design will be a seepage pit. **A long-term acceptance rate (LTAR) of 0.8 gallons per square foot will be used to design the STA.**

**Soils must be verified by this office and Garfield County Environmental Health Department prior to construction of the seepage pit.**

## DESIGN SPECIFICATIONS

### Design Calculations:

Average Design Flow = 75 GPD x 2 people/bedroom x 3 Bedrooms = 450 GPD

LTAR = 0.6 GPD/SF

450 GPD / 0.6 GPD/SF = 750 SF

Alternating systems min. each 375 SF

Existing Seepage Pit (1999) 14' x 15.5' x 10' deep = 807 SF

Proposed Seepage Pit 10' x 10' x 8' deep = 420 SF

The OWTS design is based on 3-bedrooms. An average daily wastewater flow of 450 GPD will be used.

Garfield County OWTS Regulation 43.10. F. 4 Alternating Systems states:

- a. *An alternating system must have two or more zones that must be alternated on an annual or more frequent basis.*
- b. *For repairs, each section must be a minimum of 50 percent of the total required soil treatment area. For new installations, each separate soil treatment area must meet the minimum sizing requirements of this regulation.*
- c. *A diversion valve or other approved diversion mechanism that requires the owner or operator to manually alternate zones of the OWTS may be installed on the septic tank effluent line allowing soil treatment area sections to be alternated.*
- d. *The diversion mechanism must be readily accessible from the finished grade.*



For the purposes of this OWTS design, Benchmark Elevation has been established as 100' (Finished Floor). CBO Inc. should be notified of any discrepancies or problems with grade elevations of proposed components during installation of the OWTS.

<b>OWTS Component</b>	<b>Minimum Elevation</b>
Primary Tank Inlet Invert (existing)	Approximate horizontal distance 5' / min. 2% fall / <b>min. 1.25" fall</b>
Inlet of 1999 Seepage Pit (existing)	Approximate horizontal distance 14' / min. 1% fall / <b>min. 1.75" fall</b>
Inlet of new Seepage Pit	Approximate horizontal distance 93' / min. 1% fall to STA / <b>min. 11.625" fall</b>

\*Elevations are based upon standard OWTS installation practices. Component elevations may change during installation due to site conditions. Minimum grade refers to piping between components.

The existing sewer line from the house to the septic tank must be verified to be in good condition with adequate fall to the existing septic tank. Plumbing in the existing septic tank, including inlet and outlet tees with an Orenco® Biotube effluent filter, must be installed. There are 2-feet of risers on the existing septic tank. A handle extension must be installed on the effluent filter so it is accessible from grade.

The existing sewer line existing the septic tank will be excavated and a Bull Run Valve installed. This valve will be rotated on an annual or more frequent basis between the 1999 seepage pit and new, proposed seepage pit. We have provided a tracking sheet to assist with documenting the rotation.

The new sewer line from the Bull Run Valve to the new seepage pit should be minimum Schedule 40 as the area to the north of the residence is subject to traffic. The sewer line must have a minimum of 1% fall from the Bull Run Valve to the new seepage pit.

The seepage pit will measure **10-feet long, 10-feet wide, and a minimum of 8-feet deep below the inlet pipe.**

The bottom of the excavation must be filled with 6-inches of ¾-inch diameter cleaned screened rock. Four-foot diameter perforated manhole rings will be stacked in the center of the excavation. Manhole rings must be surrounded by ¾-inch diameter cleaned screened rock.

Cast iron extensions and cast-iron lids must be utilized to bring the manhole rings of the seepage pit to grade for access.

### **COMPONENT SPECIFICATIONS**

The component manufacturers are typical of applications used by contractors and engineers in this area. **CBO Inc. must approve alternative components prior to installation of the OWTS. Requests must be submitted, in writing, to our office for approval prior to installation.** Component technical data sheets are available upon request.

COMPONENT	MANUFACTURER	MODEL NO.	COMMENTS
Effluent Filter	Orenco®		Full size effluent filter
Tank Risers and Lids	Orenco®		Double-walled PVC Risers and Lids (24" diameter)
Drywell Risers	Valley Precast		(4) Perforated drywell risers and cone
Cast Iron Extension Rings and Lid	Valley Precast		Height as needed

Construction must be according to the jurisdiction's adopted On-Site Wastewater Treatment System Regulations, the OWTS Permit, and this design.

### PERMIT APPLICATION INSTRUCTIONS

**An OWTS Permit Application** must be submitted to Garfield County Environmental Health Department. <https://www.garfield-county.com/environmental-health/files/gcco/sites/16/OWTS-Application-Complete-Packet-Dec.-2019.pdf>. If the OWTS Permit Application will be submitted with a Building Permit Application, it should be submitted directly to Garfield County Building Department. Garfield County may require variances to minimum setback distances be obtained, which may entail presenting the proposed design to the Board of County Commissioners who act as the Board of Health.

All questions regarding permit submission can be directed to Garfield County Environmental Health Department, 970-945-6614 x8150.

### INSTALLATION CONTRACTOR

CBO Inc. expects that the installer be experienced and qualified to perform the scope of work outlined in this design. The installer must review this design thoroughly and coordinate with our office in advance of installation. Any additional conditions in this design or county permit must be completed and documented prior to final approval of the OWTS installation. Communication between the installer and this office is expected throughout the installation.

### INSTALLATION OBSERVATIONS

CBO Inc. must view the OWTS during construction. The OWTS observation should be performed before backfill, after placement of OWTS components. Septic tanks, distribution devices, pumps, dosing siphons, and other plumbing, as applicable, must also be observed. CBO Inc. should be notified 48 hours in advance to observe the installation.

In an effort to improve the accuracy of the record drawing, **we request that the installer provide a sketch of the installation, including path of the sewer lines, water line installation (if applicable), septic tank location, STA location, and measurements from building corners or another fixed objects on the property.** This sketch is most easily provided on Sheet W2.0 of the OWTS Design Packet. Photographs of the installation and final cover are also requested to supplement our installation documentation.

### REVEGETATION REQUIREMENTS

An adequate layer of good quality topsoil capable of supporting revegetation shall be placed over the entire disturbed area of the OWTS installation. A mixture of native grass seed that has good soil stabilizing characteristics (but without taproots), provides a maximum transpiration rate, and competes well with successional species. No trees or shrubs, or any vegetation requiring regular irrigation shall be placed over

the STA. Until vegetation is reestablished, erosion and sediment control measures shall be implemented and maintained on site. The owner of the OWTS shall be responsible for maintaining proper vegetation cover.

### **OPERATION INFORMATION AND MAINTENANCE**

The property owner shall be responsible for the operation and maintenance of each OWTS servicing the property. The property owner is responsible for maintaining service contracts for manufactured units, alternating STAs, and any other components needing maintenance.

Geo-fabrics or plastics should not be used over the STA. No heavy equipment, machinery, or materials should be placed on the backfilled STA. Machines with tracks (not wheels) should be used during construction of the STA for better weight distribution. Livestock should not graze on the STA. Plumbing fixtures should be checked to ensure that no additional water is being discharged to OWTS. For example, a running toilet or leaky faucet can discharge hundreds of gallons of water a day and harm a STA.

If an effluent filter or screen has been installed in the OWTS, we recommend this filter or screen be cleaned annually, or as needed. If the OWTS consists of a pressurized pump system, we recommend the laterals be flushed annually, or as needed.

The homeowner should pump the septic tank every two years, or as needed gauged by measurement of solids in the tank. Garbage disposal use should be minimized, and non-biodegradable materials should not be placed into the OWTS. Grease should not be placed in household drains. Loading from a water softener should not be discharged into the OWTS. No hazardous wastes should be directed into the OWTS. Mechanical room drains should not discharge into the OWTS. The OWTS is engineered for domestic waste only.

### **ADDITIONAL CONSTRUCTION NOTES**

If design includes a pump, weep holes must be installed to allow pump lines to drain to minimize risk of freezing. The pump shall have an audible and visual alarm notification in the event of excessively high-water conditions and shall be connected to a control breaker separate from the high-water alarm breaker and from any other control system circuits. The pump system shall have a switch so the pump can be manually operated.

Excavation equipment must not drive in the excavation of the STA due to the potential to compact soil. Extensions should be placed on all septic tank components to allow access to them from existing grade. Backfill over the STA must be uniform and granular with no material greater than minus 3-inch.

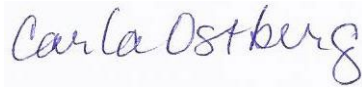
#### **LIMITS:**

The design is based on information submitted. If soil conditions encountered are different from conditions described in report, CBO Inc. should be notified. All OWTS construction must be according to the county regulations. Requirements not specified in this report must follow applicable county regulations. The contractor should have documented and demonstrated knowledge of the requirements and regulations of the county in which they are working. Licensing of Systems Contractors may be required by county regulation.

Please call with questions.

Sincerely,

CBO Inc.



Carla Ostberg, MPH, REHS

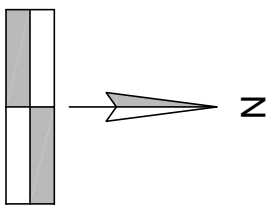
**K-CRONK**  
*Engineering* P.O. Box 140  
Mack, CO 81525

970.250.0572 / kachayla.cronk@outlook.com

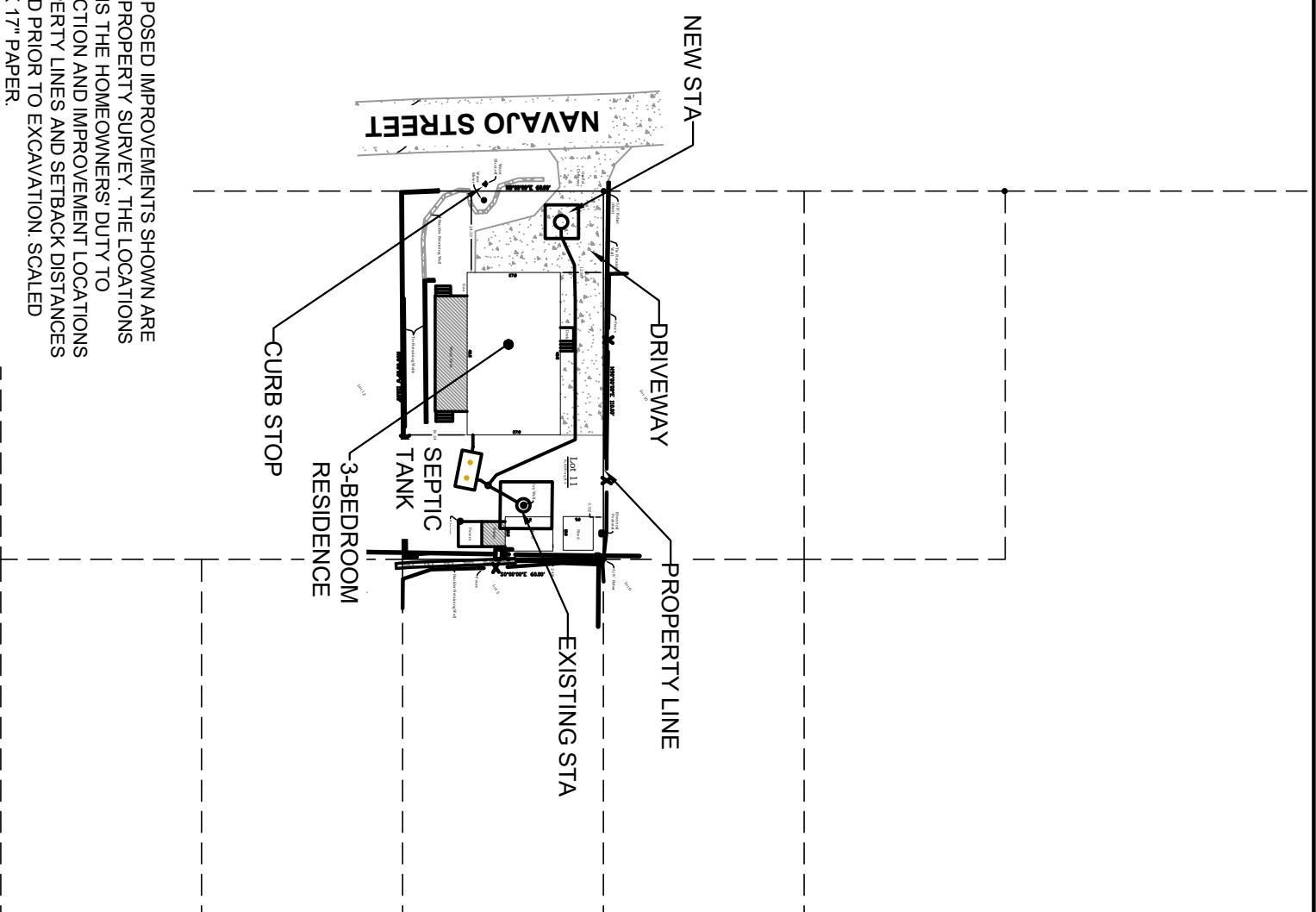
Reviewed By:



Kachayla R. Cronk, P.E.  
Colorado License No. 61440

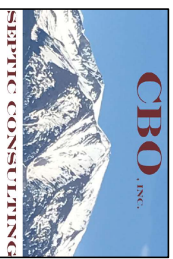


SCALE: 1" = 50'-0"



THE LOCATION OF PROPOSED IMPROVEMENTS SHOWN ARE NOT THE RESULT OF A PROPERTY SURVEY. THE LOCATIONS ARE APPROXIMATE. IT IS THE HOMEOWNERS' DUTY TO ENSURE ALL CONSTRUCTION AND IMPROVEMENT LOCATIONS ARE ACCURATE. PROPERTY LINES AND SETBACK DISTANCES SHOULD BE CONFIRMED PRIOR TO EXCAVATION. SCALED FOR PRINTING ON 11" X 17" PAPER.

**DRAWINGS MUST BE USED IN CONJUNCTION WITH DESIGN LETTER DATED 06/02/2024**



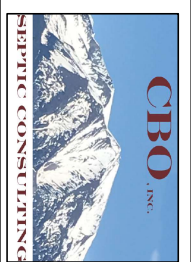
CBO Inc.  
129 Cains Lane  
Carbondale, Colorado 81623  
Phone 970.309.5259  
carla.osberg@gmail.com

1 SITE PLAN 1" = 50'-0"

**McCarthy Trust**  
112 Navajo Street  
Garfield County, Colorado  
Project Number: C1884

Date: 06/02/2024  
Designed by: CBO  
Reviewed by: KC  
Drawn by: DD

**W1.0**  
Sheet 1 OF 4



CBO Inc.  
 129 Cains Lane  
 Carbondale, Colorado 81623  
 Phone 970.309.5259  
 carla.osberg@gmail.com

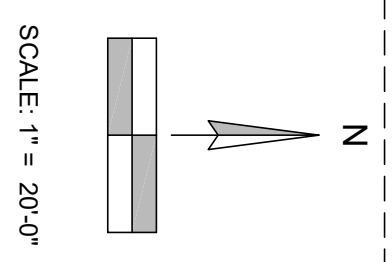
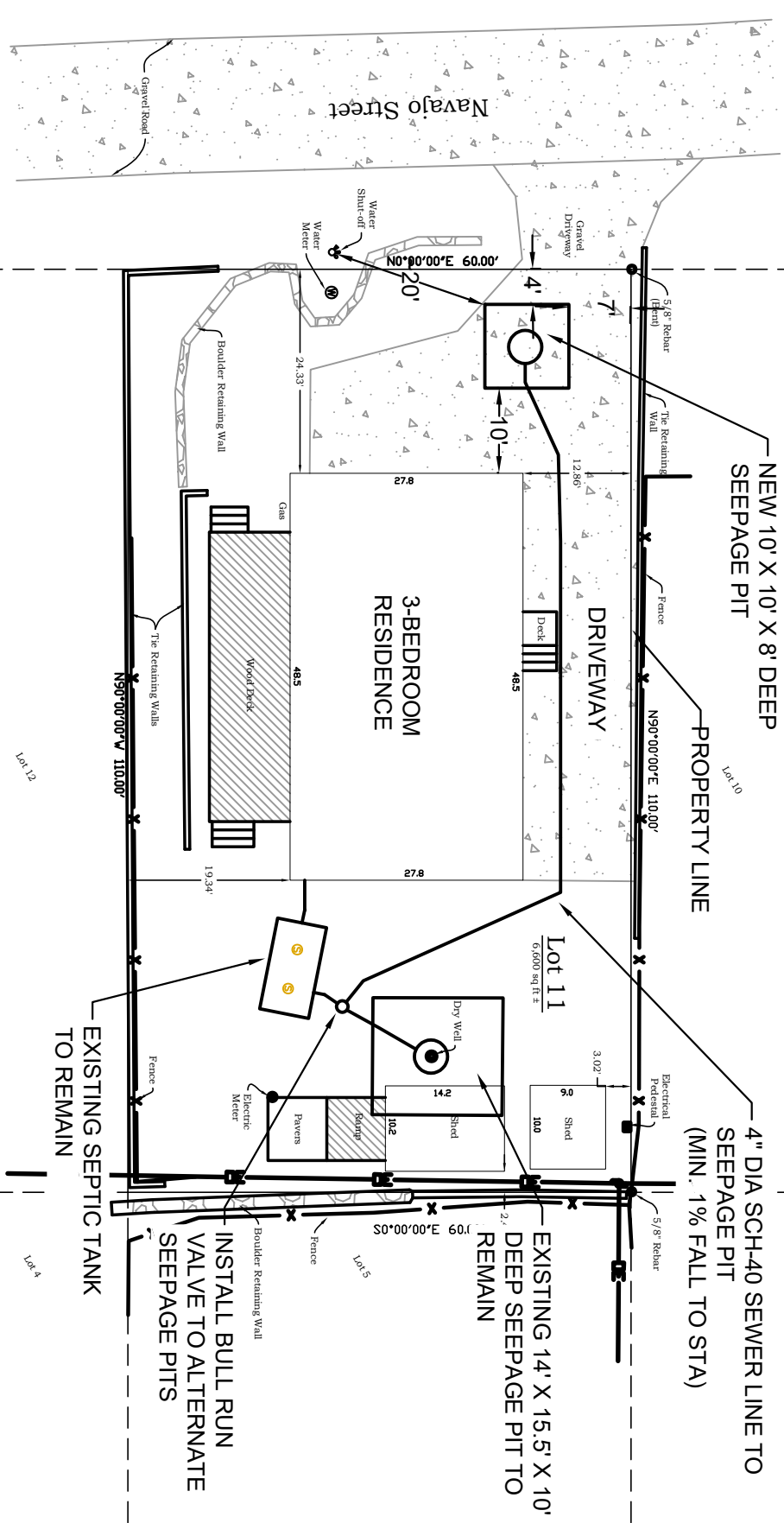
**McCarthy Trust**  
 112 Navajo Street  
 Garfield County, Colorado  
 Project Number: C1884

Date: 06/02/2024  
 Designed by: CBO  
 Reviewed by: KC  
 Drawn by: DD

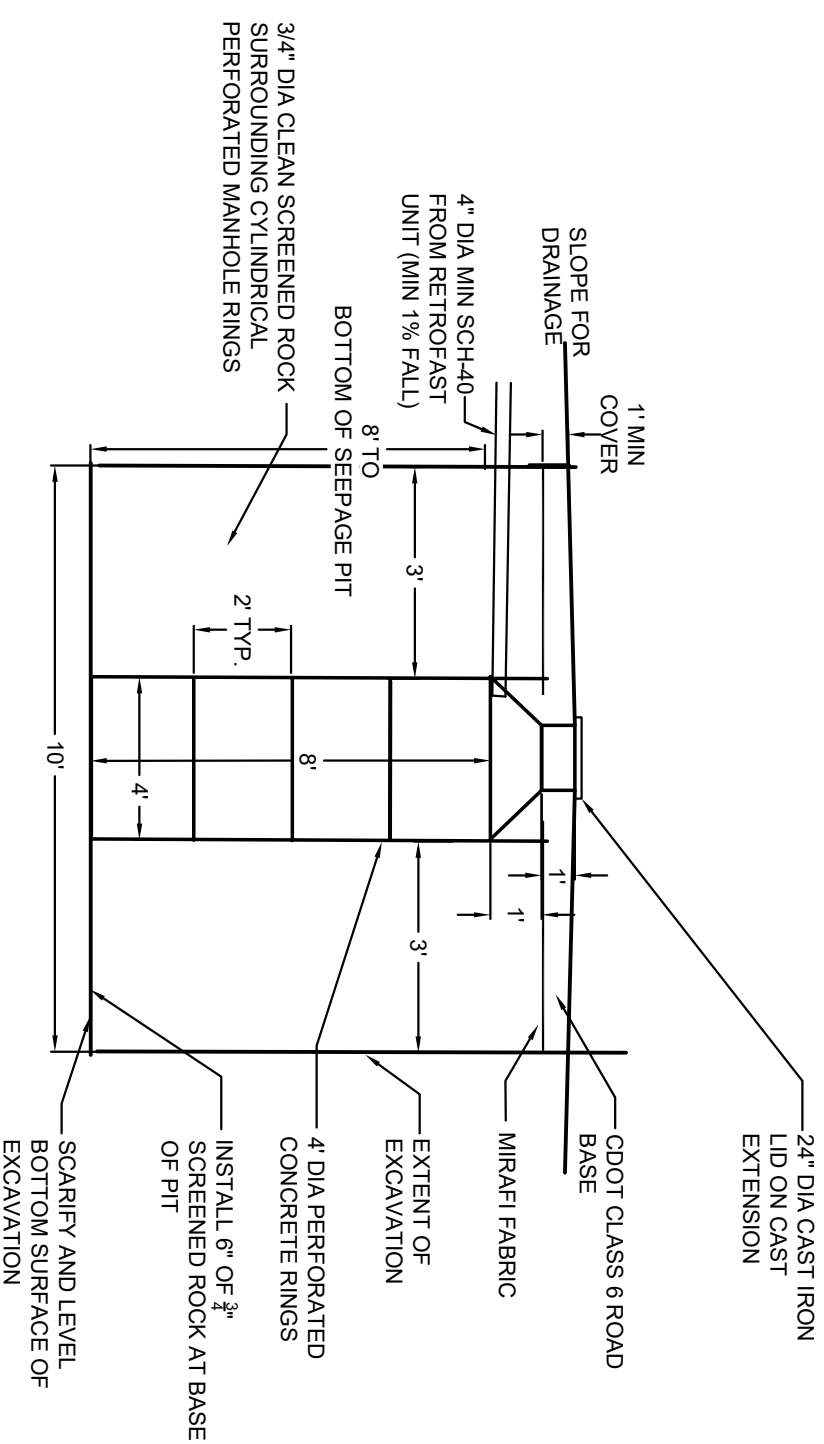
**W2.0**  
 Sheet 2 OF 4

**1** PROPOSED OWTS  
 1" = 20'-0"

CALL 811 FOR  
 UTILITY LOCATES



- NOTES:
- BULL RUN VALVE TO ALTERNATE SEEPAGE PITS
  - TOTAL EXCAVATION DEPTH WILL BE APPROXIMATELY 10-FEET



① SEEPAGE PIT SECTION  
NOT TO SCALE

**SCREENED ROCK FILL MATERIAL**

SIZE	% PASSING
1 1/2"	100
3/4"	50-100
#4	25-50
#40	10-20
#100	5-15
#200	<10

CBO Inc.  
129 Cairns Lane  
Carbondale, Colorado 81623  
Phone 970.309.5259  
carla.ostberg@gmail.com

**McCarthy Trust**  
112 Navajo Street  
Garfield County, Colorado  
Project Number: C1884

Date: 06/02/2024  
Designed by: CBO  
Reviewed by: KC  
Drawn by: DD

**W3.0**  
Sheet 3 OF 4



DESIGN

**3-BEDROOM RESIDENCE**

(75 GPD x 2 PERSONS/BEDROOM x 3 BEDROOMS)  
 WASTEWATER FLOW = 450 GPD

TANK:

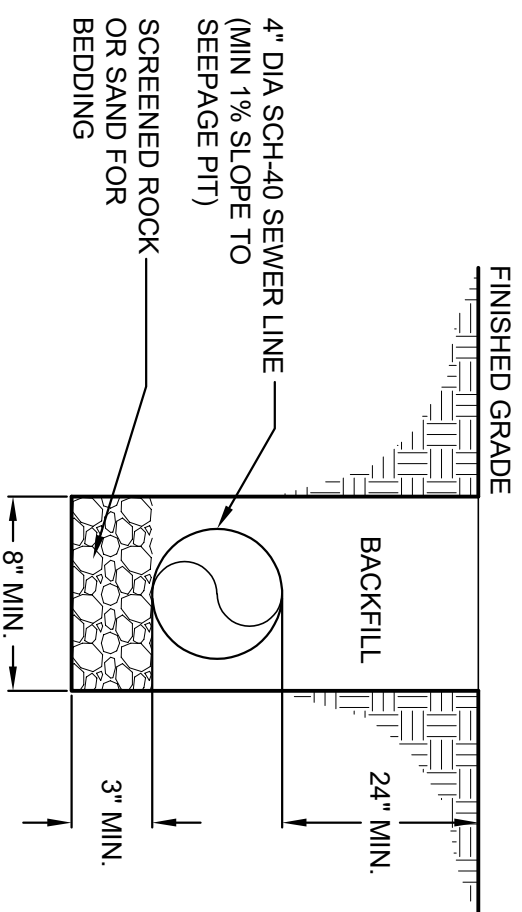
MIN. 1000 GALLONS  
 USE EXISTING 1000-GALLON, TWO-COMPARTMENT SEPTIC TANK

SOIL TREATMENT AREA (STA):

LONG TERM ACCEPTANCE RATE (LTAR) = 0.6 GAL/ SF  
 CALCULATED STA = Q/LTAR = 450 / 0.6 = 750 SF  
 EXISTING SEEPAGE PIT 14' X 15.5' X 10' DEEP = 807 SF  
 PROPOSED SEEPAGE PIT 10' X 10' X 8' DEEP = 420 SF  
 ALTERNATING SEEPAGE PIT REQUIRE MIN. 375 SF EACH FOR REPAIR

OWTS COMPONENTS AND PHYSICAL FEATURES	MINIMUM REQUIRED SETBACK	APPROXIMATE PROPOSED SETBACK
HOUSE TO SEPTIC TANK	5'	5' EXISTING
SEPTIC TANK TO WELL	50'	N/A
SEPTIC TANK TO WATER COURSE	50'	N/A
STA TO HOUSE	20'	10'
STA TO WELL	100'	N/A
STA TO WATER COURSE	50'	N/A

① SETBACK CHART  
 NOT TO SCALE



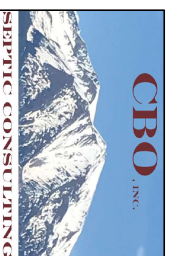
② TRENCH DETAIL  
 NOT TO SCALE

CBO Inc.  
 129 Cairns Lane  
 Carbondale, Colorado 81623  
 Phone 970.309.5259  
 carla.ostberg@gmail.com

**McCarthy Trust**  
 112 Navajo Street  
 Garfield County, Colorado  
 Project Number: C1884

Date: 06/02/2024  
 Designed by: CBO  
 Reviewed by: KC  
 Drawn by: DD

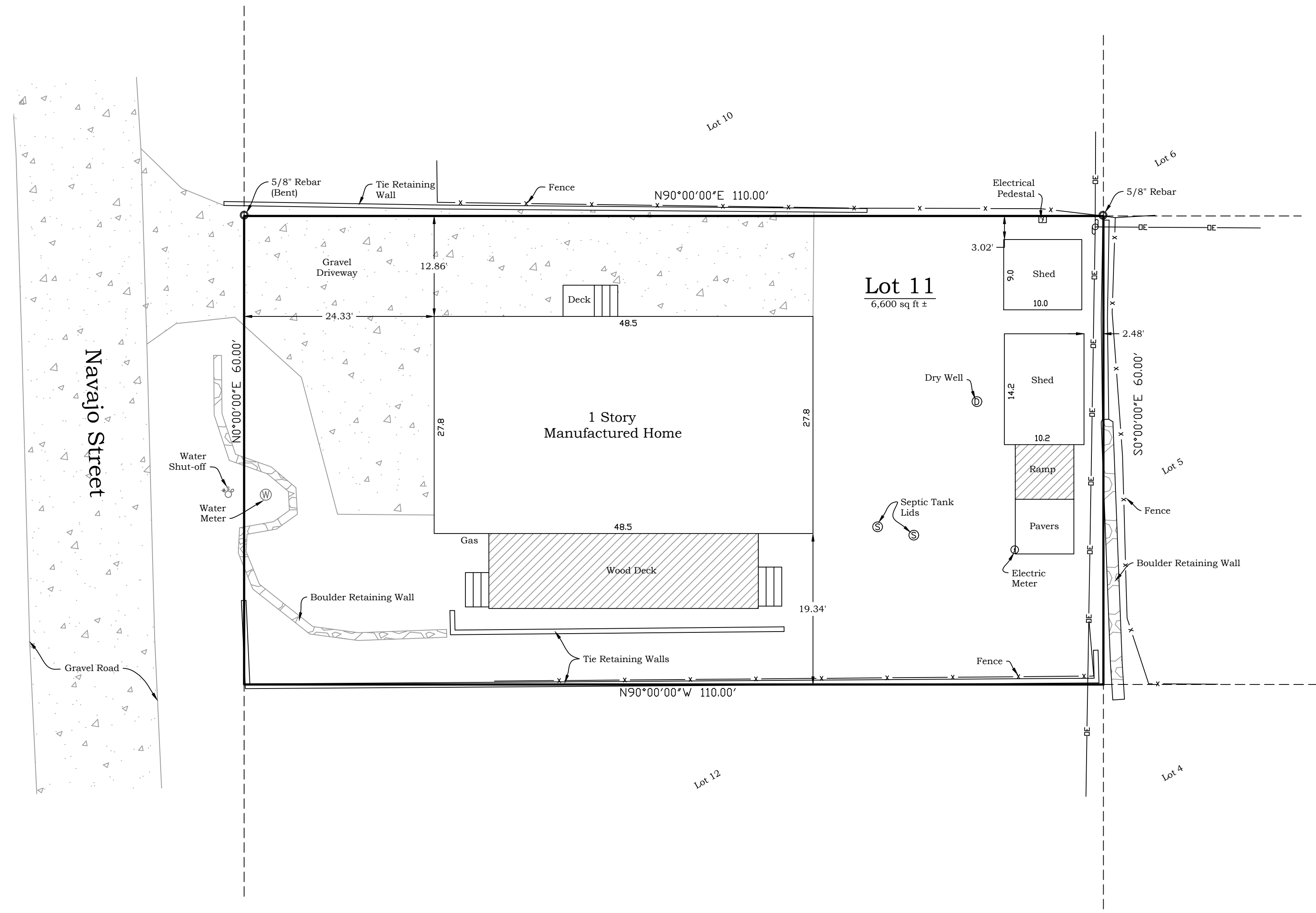
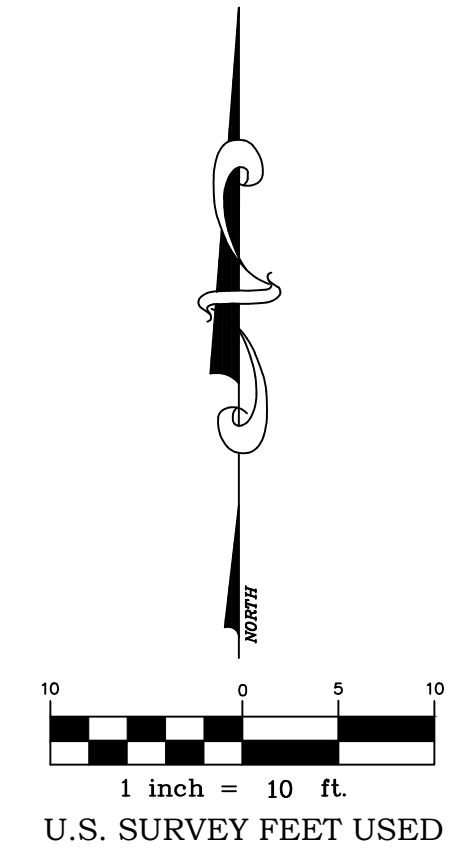
**W4.0**  
 Sheet 4 OF 4





# IMPROVEMENT LOCATION CERTIFICATE

LOT 11, BLOCK 3  
 ELK CREEK DEVELOPMENT  
 COUNTY OF GARFIELD, STATE OF COLORADO  
 112 NAVAJO STREET, NEW CASTLE, CO 81647



### PROPERTY DESCRIPTION

LOT 11  
 BLOCK 3  
 ELK CREEK DEVELOPMENT  
 COUNTY OF GARFIELD  
 STATE OF COLORADO

### NOTES:

- 1.) THE DATE OF THE FIELD SURVEY WAS APRIL 17, 2024.
- 2.) THIS DOES NOT REPRESENT A TITLE SEARCH BY THIS FIRM OR SURVEYOR.
- 3.) THIS PROPERTY IS SUBJECT TO EASEMENTS, RIGHTS OF WAY AND/ OR REQUIREMENTS AS NOTED OR SHOWN IN THE RECORDS OF THE GARFIELD COUNTY CLERK & RECORDER.

### IMPROVEMENT LOCATION CERTIFICATE:

I SCOTT R. BLACKARD HEREBY CERTIFY THAT THIS IMPROVEMENT LOCATION CERTIFICATE WAS PREPARED FOR MCCARTHY TRUST DTD, THAT IT IS NOT A LAND SURVEY PLAT OR IMPROVEMENT SURVEY PLAT, AND THAT IT IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OF FENCE, BUILDING, OR OTHER FUTURE IMPROVEMENT LINES. THIS CERTIFICATE IS VALID ONLY FOR USE BY MCCARTHY TRUST DTD, AND DESCRIBES THE PARCEL'S APPEARANCE ON APRIL 17, 2024.

I FURTHER CERTIFY THAT THE IMPROVEMENTS ON THE ABOVE DESCRIBED PARCEL ON THIS DATE, APRIL 17, 2024, EXCEPT UTILITY CONNECTIONS ARE ENTIRELY WITHIN THE BOUNDARIES OF THE PARCEL, EXCEPT AS SHOWN, THAT THERE ARE NO ENCROACHMENTS UPON THE DESCRIBED PREMISES BY IMPROVEMENTS ON ANY ADJOINING PREMISES, EXCEPT AS INDICATED, AND THAT THERE IS NO APPARENT EVIDENCE OR SIGN OF ANY EASEMENT CROSSING OR BURDENING ANY PART OF SAID PARCEL, EXCEPT AS NOTED.

SCOTT R. BLACKARD L.S. 38342



DATE



## IMPROVEMENT LOCATION CERTIFICATE

LOT 11, BLOCK 3  
 ELK CREEK DEVELOPMENT  
 COUNTY OF GARFIELD, STATE OF COLORADO  
 112 NAVAJO STREET, NEW CASTLE, CO 81647

JOB NO: 24023  
 DATE: 4/22/24  
 DWG BY: SRB  
 REV:

1 of 1

NOTICE: ACCORDING TO COLORADO LAW YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOVERED SUCH DEFECT. IN NO EVENT, MAY AN ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THE DATE OF THIS CERTIFICATION SHOWN HEREON.

GARFIELD COUNTY BUILDING AND SANITATION DEPARTMENT

109 8th Street Suite 303  
Glenwood Springs, Colorado 81601  
Phone (303) 945-8212

Permit No 3240  
Assessor's Parcel No.

This does not constitute  
a building or use permit.

INDIVIDUAL SEWAGE DISPOSAL PERMIT

PROPERTY

Owner's Name Duncan, Chris Present Address 2015 Blake Ave, GWS Phone 618-4888

System Location 112 N Navajo, New Castle, Co. 81647

Legal Description of Assessor's Parcel No. \_\_\_\_\_

SYSTEM DESIGN

DRY WELL 13' x 13' x 12' or 14 1/2' x 14 1/2' x 10' (212R)

1000 Septic Tank Capacity (gallon) \_\_\_\_\_ Other \_\_\_\_\_  
1/30 Percolation Rate (minutes/inch) Number of Bedrooms (or other) 3

Required Absorption Area - See Attached

Special Setback Requirements:

Date 9-16-99 Inspector AMS

FINAL SYSTEM INSPECTION AND APPROVAL (as installed)

Call for inspection (24 hours notice) Before Covering Installation

System Installer RIPRY EXC.

Septic Tank Capacity 1000 gal

Septic Tank Manufacturer or Trade Name COPELAND

Septic Tank Access within 8" of surface ✓

Absorption Area 14 x 15.5 217R

Absorption Area Type and/or Manufacturer or Trade Name DRYWELL - COPELAND

Adequate compliance with County and State regulations/requirements \_\_\_\_\_

Other \_\_\_\_\_

Date 9-21-99 Inspector AMS

RETAIN WITH RECEIPT RECORDS AT CONSTRUCTION SITE

\*CONDITIONS:

1. All installation must comply with all requirements of the Colorado State Board of Health Individual Sewage Disposal Systems Chapter 25, Article 10 C.R.S. 1973, Revised 1984.
2. This permit is valid only for connection to structures which have fully complied with County zoning and building requirements. Connection to or use with any dwelling or structures not approved by the Building and Zoning office shall automatically be a violation or a requirement of the permit and cause for both legal action and revocation of the permit.
3. Any person who constructs, alters, or installs an individual sewage disposal system in a manner which involves a knowing and material variation from the terms or specifications contained in the application of permit commits a Class I, Petty Offense (\$500.00 fine — 6 months in jail or both).

GARFIELD COUNTY BUILDING AND SANITATION DEPARTMENT

2014 Blake Avenue  
Glenwood Springs, Colorado 81601  
Phone (303) 945-8241

Perc Fee Waived..Absorption Area Existing

INDIVIDUAL SEWAGE DISPOSAL PERMIT #10 1277

This does not constitute a building or use permit.

Owner Dennis L. Brown Rental

System Location Lot 11, Block 3 East Elk Creek Subdivision, New Castle

Licensed Installer Owner

\* Conditional Construction approval is hereby granted for a 750 gallon

XXX Septic Tank or          Aerated treatment unit.

Absorption area (or dispersal area) computed as follows:

Perc rate of one inch in 9 minutes requires a minimum of 216 sq. ft. of absorption area per bedroom.

Therefore the no. of bedrooms 2 x 216 sq. ft. minimum requirement = a total of 432 sq. ft. of absorption area.

May we suggest EXISTING ABSORPTION AREA ADEQUATE SIZE TO ACCOMMODATE ADDITIONAL 2 BEDROOM MOBILE HOME

Date 2-22-83 Inspector ED FELD

CROSS REFERENCED TO PERMIT #1118

FINAL APPROVAL OF SYSTEM:

No system shall be deemed to be in compliance with the Sewage Disposal Laws until the assembled system is approved prior to covering any part.

OK Septic Tank access for inspection and cleaning within 12" of ground surface or aerated access ports above ground surface. 4-1-83

OK Proper materials and assembly. 4-1-83 2 - 1,000 GALLON TANKS SET IN SERIES TO ACCOMMODATE 1-2BDRM MOBILE HOME & ONE

COPELAND Trade name of septic tank or aerated treatment unit. 4-1-83 3BDRM MOBILE HOME.

OK Adequate absorption (or dispersal) area. SEE PERMIT # 1118

OK Adequate compliance with permit requirements. 4-1-83

OK Adequate compliance with County and State regulations/requirements. 4-1-83

OK Other RED TAG NOTATING PROXIMITY OF WATER LINE CORRECTED

Date 4-1-83 Inspector ED FELD

PROOF OF RECORDED STATEMENT RE: SHARED ISDS ATTACHED

RETAIN WITH RECEIPT RECORDS AT CONSTRUCTION SITE

\*CONDITIONS:

1. All installation must comply with all requirements of the County Individual Sewage Disposal Regulations, adopted pursuant to authority granted in 66-44-4, CRS 1963, amended 66-3-14, CRS 1963.
2. This permit is valid only for connection to structures which have fully complied with County zoning and building requirements. Connection to or use with any dwelling or structures not approved by the Building and Zoning office shall automatically be a violation of a requirement of the permit and cause for both legal action and revocation of the permit.
3. Section III, 3.24 requires any person who constructs, alters, or installs an individual sewage disposal system in a manner which involves a knowing and material variation from the terms or specifications contained in the application of permit commits a Class 1 Petty Offense (\$500.00 fine - 6 months in jail or both).

Applicant: Green Copy Department: Pink Copy

GARFIELD COUNTY BUILDING AND SANITATION DEPARTMENT

2014 Blake Avenue  
Glenwood Springs, Colorado 81601  
Phone (303) 945-8241

This does not constitute a building or use permit.

INDIVIDUAL SEWAGE DISPOSAL PERMIT NO 1118

Owner Jim Hess

System Location 0112 Navaho Street, Elk Creek

Licensed Installer \_\_\_\_\_

\* Conditional Construction approval is hereby granted for a 1,000 gallon

xx Septic Tank or \_\_\_\_\_ Aerated treatment unit.

Absorption area (or dispersal area) computed as follows:

Perc rate of one inch in 349 minutes requires a minimum of 216 sq. ft. of absorption area per bedroom.

Therefore the no. of bedrooms 3 x 216 sq. ft. minimum requirement = a total of 648 sq. ft. of absorption area.

May we suggest 12' X 54' X 3' or 18' X 36' X 3'

Date Jan 8, 1982 Inspector T. Howard Saintman

FINAL APPROVAL OF SYSTEM:

No system shall be deemed to be in compliance with the Sewage Disposal Laws until the assembled system is approved prior to covering any part.

OK Septic Tank access for inspection and cleaning within 12" of ground surface or aerated access ports above ground surface. unable to inspect tank - covered 1000 gal.

OK Proper materials and assembly.

Copeland Trade name of septic tank or aerated treatment unit. 1000 gal.

OK Adequate absorption (or dispersal) area. 18' X 42' X 4' total 24 X 45' outside extra gravel

OK Adequate compliance with permit requirements.

OK Adequate compliance with County and State regulations/requirements.

Other \_\_\_\_\_

Date Jan 1, 1982 Inspector T. Howard Saintman

RETAIN WITH RECEIPT RECORDS AT CONSTRUCTION SITE

CONDITIONS:

- All installation must comply with all requirements of the County Individual Sewage Disposal Regulations, adopted pursuant to authority granted in 66-44-4, CRS 1963, amended 66-3-14, CRS 1963.
- This permit is valid only for connection to structures which have fully complied with County zoning and building requirements. Connection to or use with any dwelling or structures not approved by the Building and Zoning office shall automatically be a violation of a requirement of the permit and cause for both legal action and revocation of the permit.
- Section III-3-24 requires any person who constructs, alters, or installs an individual sewage disposal system in a manner which involves a knowing and material variation from the terms or specifications contained in the application of permit commits a Class 1 Party Offense (\$500.00 fine - 6 months in jail or both).

Applicant: Green Copy Department: Pink Copy

(TO BE RETURNED TO ENVIRON. HEALTH DEPT.)

INDIVIDUAL SEWAGE DISPOSAL SYSTEM APPLICATION

OWNER Chris Duman

ADDRESS 2015 Blake Ave. PHONE 970-216-4888

CONTRACTOR Shawn Newton

ADDRESS 2507 Hwy 6 & 50 Grand Sct. Co. 81505 PHONE 970-242-2500

PERMIT REQUEST FOR ( ) NEW INSTALLATION  ALTERATION ( ) REPAIR

Attach separate sheets or report showing entire area with respect to surrounding areas, topography of area, habitable building, location of potable water wells, soil percolation test holes, soil profiles in test holes (See page 4).

LOCATION OF PROPOSED FACILITY:

Near what City of Town New Castle Size of Lot 6600 sq ft.

Legal Description or Address 112 Navejo St. Lot 11 Block 3 Elk Creek Subd

WASTES TYPE:  DWELLING ( ) TRANSIENT USE  
( ) COMMERCIAL OR INDUSTRIAL ( ) NON-DOMESTIC WASTES  
 OTHER - DESCRIBE Dry well

BUILDING OR SERVICE TYPE:

Number of Bedrooms 3 Bedroom Number of Persons \_\_\_\_\_

( ) Garbage Grinder ( ) Automatic Washer  Dishwasher

SOURCE AND TYPE OF WATER SUPPLY: ( ) WELL ( ) SPRING ( ) STREAM OR CREEK

If supplied by Community Water, give name of supplier: New Castle

DISTANCE TO NEAREST COMMUNITY SEWER SYSTEM: \_\_\_\_\_

Was an effort made to connect to the Community System? NO all septic

A site plan is required to be submitted that indicates the following MINIMUM distances:

Leach Field to Well: 100 feet

Septic Tank to Well: 50 feet

Leach Field to Irrigation Ditches, Stream or Water Course: 50 feet

Septic System to Property Lines: 10 feet

**YOUR INDIVIDUAL SEWAGE DISPOSAL SYSTEM PERMIT WILL NOT BE ISSUED WITHOUT A SITE PLAN.**

GROUND CONDITIONS:

Depth to first Ground Water Table \_\_\_\_\_

Percent Ground Slope \_\_\_\_\_

TYPE OF INDIVIDUAL SEWAGE DISPOSAL SYSTEM PROPOSED:

- SEPTIC TANK                      ( ) AERATION PLANT                      ( ) VAULT
- ( ) VAULT PRIVY                      ( ) COMPOSTING TOILET                      ( ) RECYCLING, POTABLE USE
- ( ) PIT PRIVY                      ( ) INCINERATION TOILET                      ( ) RECYCLING, OTHER USE
- ( ) CHEMICAL TOILET                      ( ) OTHER - DESCRIBE \_\_\_\_\_

FINAL DISPOSAL BY:

- ( ) ABSORPTION TRENCH, BED OR PIT                      ( ) EVAPOTRANSPIRATION
- ( ) UNDERGROUND DISPERSAL                      ( ) SAND FILTER
- ( ) ABOVE GROUND DISPERSAL                      ( ) WASTEWATER POND

OTHER - DESCRIBE Dry well

WILL EFFLUENT BE DISCHARGED DIRECTLY INTO WATERS OF THE STATE? \_\_\_\_\_

PERCOLATION TEST RESULTS: (To be completed by Registered Professional Engineer, if the Engineer does the Percolation Test)

Minutes \_\_\_\_\_ per inch in hole No. 1                      Minutes \_\_\_\_\_ per inch in hole NO. 3  
 Minutes \_\_\_\_\_ per inch in hole No. 2                      Minutes \_\_\_\_\_ per inch in hole NO. \_\_\_\_\_

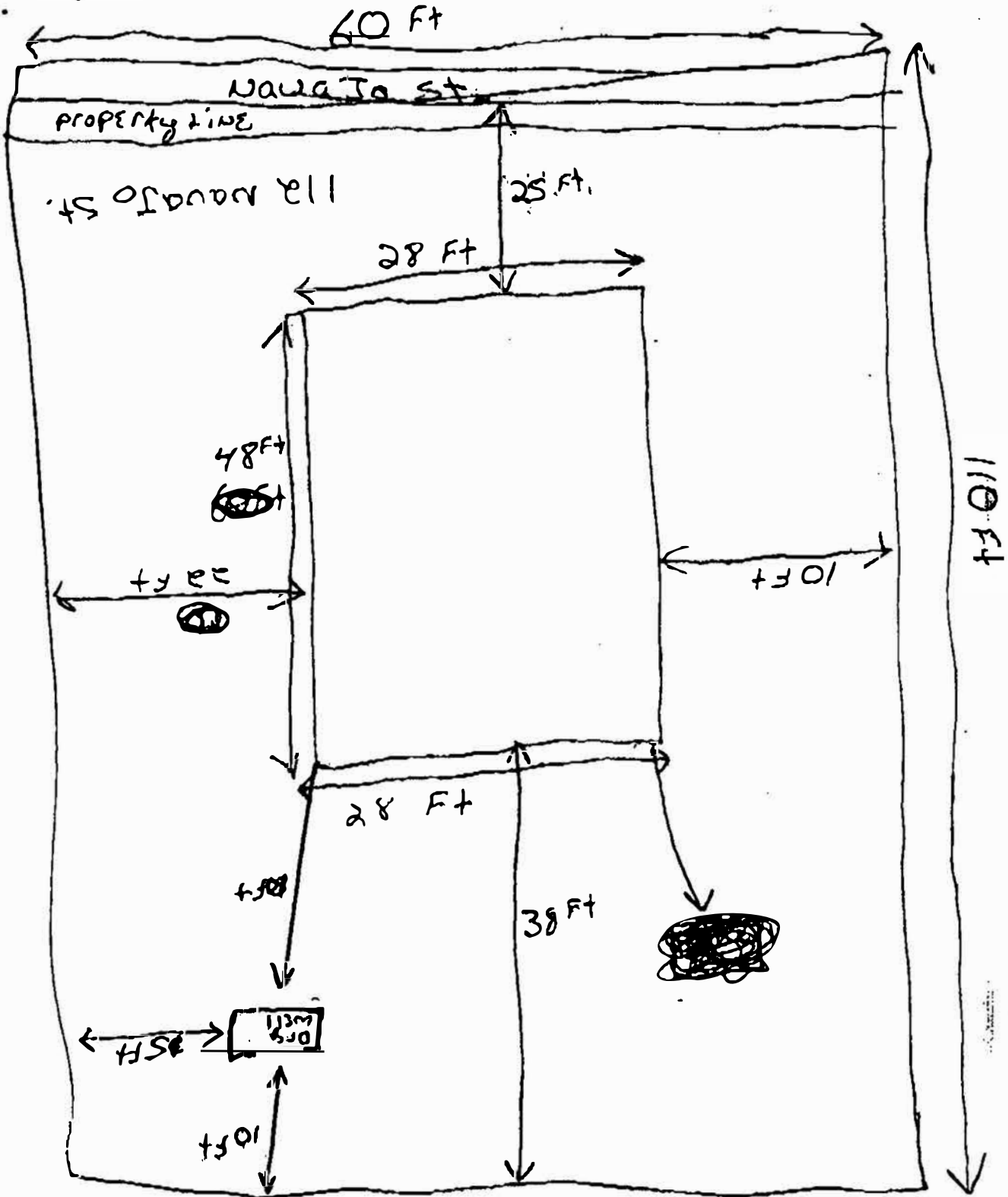
Name, address and telephone of RPE who made soil absorption tests: \_\_\_\_\_

Name, address and telephone of RPE responsible for design of the system: \_\_\_\_\_

Applicant acknowledges that the completeness of the application is conditional upon such further mandatory and additional tests and reports as may be required by the local health department to be made and furnished by the applicant or by the local health department for purposed of the evaluation of the application; and the issuance of the permit is subject to such terms and conditions as deemed necessary to insure compliance with rules and regulations made, information and reports submitted herewith and required to be submitted by the applicant are or will be represented to be true and correct to the best of my knowledge and belief and are designed to be relied on by the local department of health in evaluating the same for purposes of issuing the permit applied for herein. I further understand that any falsification or misrepresentation may result in the denial of the application or revocation of any permit granted based upon said application and in legal action for perjury as provided by law

Signed [Signature] Date 9-7-99

PLEASE DRAW AN ACCURATE MAP TO YOUR PROPERTY!!

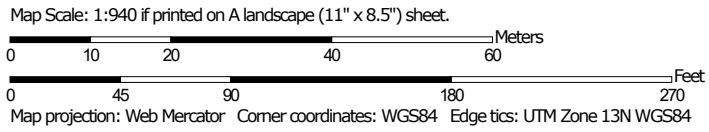


DUNCAN

Soil Map—Rifle Area, Colorado, Parts of Garfield and Mesa Counties



Soil Map may not be valid at this scale.





## MAP LEGEND

### Area of Interest (AOI)

 Area of Interest (AOI)

### Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

### Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

### Water Features



Streams and Canals

### Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

### Background



Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

**Warning:** Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Rifle Area, Colorado, Parts of Garfield and Mesa Counties

Survey Area Data: Version 16, Aug 22, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Aug 25, 2021—Sep 5, 2021

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
9	Badland	0.7	15.1%
31	Heldt clay loam, 12 to 25 percent slopes	1.1	23.4%
58	Potts-Ildefonso complex, 12 to 25 percent slopes	2.8	61.4%
67	Torriorthents-Rock outcrop complex, steep	0.0	0.1%
<b>Totals for Area of Interest</b>		<b>4.6</b>	<b>100.0%</b>

## Rifle Area, Colorado, Parts of Garfield and Mesa Counties

### 58—Potts-Ildefonso complex, 12 to 25 percent slopes

#### Map Unit Setting

*National map unit symbol:* jnyv

*Elevation:* 5,000 to 6,500 feet

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Potts and similar soils:* 60 percent

*Ildefonso and similar soils:* 30 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Potts

##### Setting

*Landform:* Valley sides, alluvial fans, mesas

*Down-slope shape:* Convex, linear

*Across-slope shape:* Convex, linear

*Parent material:* Alluvium derived from basalt and/or alluvium derived from sandstone and shale

##### Typical profile

*H1 - 0 to 4 inches:* loam

*H2 - 4 to 28 inches:* clay loam

*H3 - 28 to 60 inches:* loam

##### Properties and qualities

*Slope:* 12 to 25 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Runoff class:* High

*Capacity of the most limiting layer to transmit water*

*(Ksat):* Moderately high (0.20 to 0.60 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 15 percent

*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

*Available water supply, 0 to 60 inches:* High (about 10.3 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 6e

*Hydrologic Soil Group:* C

*Ecological site:* R048AY306UT - Upland Loam (Wyoming Big Sagebrush)

*Hydric soil rating:* No

## Description of Ildefonso

### Setting

*Landform:* Mesas, valley sides, alluvial fans

*Down-slope shape:* Convex

*Across-slope shape:* Convex

*Parent material:* Alluvium derived from basalt and/or alluvium  
derived from sandstone and shale

### Typical profile

*H1 - 0 to 8 inches:* stony loam

*H2 - 8 to 60 inches:* very stony loam

### Properties and qualities

*Slope:* 12 to 25 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Runoff class:* Low

*Capacity of the most limiting layer to transmit water*

*(Ksat):* Moderately high to high (0.60 to 6.00 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 35 percent

*Maximum salinity:* Nonsaline to slightly saline (0.0 to 4.0  
mmhos/cm)

*Available water supply, 0 to 60 inches:* Low (about 5.1 inches)

### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 6e

*Hydrologic Soil Group:* A

*Ecological site:* R034BY330UT - Upland Stony Loam (Pinyon-Utah  
Juniper)

*Hydric soil rating:* No

## Data Source Information

Soil Survey Area: Rifle Area, Colorado, Parts of Garfield and Mesa Counties

Survey Area Data: Version 16, Aug 22, 2023



**Overview**

**Legend**

- Parcels
- Roads
- Parcel/Account Numbers
- Owner Name
- Lakes & Rivers
- County Boundary Line

Account Number	R005053	Physical Address	112 NAVAJO ST	2019 Total Actual Value	\$362,390	Last 2 Sales	
Parcel Number	212525102018	Owner Address	NEW CASTLE	81647		Date	Price
Acres	0		MCCARTHY TRUST DTD			5/21/2004	\$149,000
Land SqFt	6,600		03/26/2012			8/12/1999	\$33,000
Tax Area	013		PO BOX 34				
2019 Mill Levy	51.0910		NEW CASTLE CO 81647				

Date created: 3/29/2024  
 Last Data Uploaded: 3/29/2024 2:10:57 AM

# Garfield County, CO

## Summary

**Account** R005053  
**Parcel** 212525102018  
**Property** 112 NAVAJO ST, NEW CASTLE, CO 81647  
**Address**  
**Legal** Section: 25 Township: 5 Range: 91 Subdivision: ELK CREEK DEV.  
**Description** Block: 3 Lot: 11 UNIT 1 6600 SQ FT  
**Acres** 0  
**Land SqFt** 6,600  
**Tax Area** 13  
**Mill Levy** 51.0910  
**Subdivision** ELK CREEK DEV.



[View Map](#)

## Owner

MCCARTHY TRUST DTD 03/26/2012  
 PO BOX 34  
 NEW CASTLE CO 81647

## Land

**Unit Type** SINGLE FAM.RES-LAND - 1112 (RESIDENTIAL PROPERTY)  
**Square Feet** 6,600

## Buildings

**Building #** 1  
**Units** 1  
**Building Type** SFR  
**Abstract Codes / (Property Type)** SINGLE FAM.RES-IMPROVEMTS-1212 (RESIDENTIAL PROPERTY)  
**Architectural Style** MANUFACTURED-HUD  
**Stories** 1  
**Frame** WOOD FRAME  
**Actual Year Built** 1999  
**Gross Living Area** 1,344  
**Total Heated SqFt** 1,344  
**Bedrooms** 3  
**Baths** 2  
**Heating Fuel** GAS  
**Heating Type** FORCED AIR  
**Air Conditioning** EVAPORATIV  
**Roof Type** GABLE  
**Roof Cover** COMP SHNGL

## Actual Values

Assessed Year	2024	2023	2022
Land Actual	\$102,000.00	\$86,520.00	\$62,000.00
Improvement Actual	\$260,390.00	\$220,870.00	\$233,470.00
<b>Total Actual</b>	<b>\$362,390.00</b>	<b>\$307,390.00</b>	<b>\$295,470.00</b>

## Assessed Values

Assessed Year	2024	2023	2022
Land Assessed	\$6,830.00	\$5,800.00	\$4,310.00
Improvement Assessed	\$17,450.00	\$14,800.00	\$16,230.00
<b>Total Assessed</b>	<b>\$24,280.00</b>	<b>\$20,600.00</b>	<b>\$20,540.00</b>

## Tax History

Tax Year	2023	2022	2021	2020
Taxes Billed	\$1,052.48	\$1,133.00	\$1,315.40	\$881.52

[Click here to view the tax information for this parcel on the Garfield County Treasurer's website.](#)

**Transfers**

Sale Date	Deed Type	Reception Number	Book - Page	Sale Price
11/29/2023	STATEMENT OF AUTHORITY	<a href="#">991698</a>		\$0
11/29/2023	QUIT CLAIM DEED	<a href="#">991697</a>		\$0
11/29/2023	Supplemental Affidavit	<a href="#">991695</a>		\$0
10/2/2017	POWER OF ATTORNEY	<a href="#">991696</a>		\$0
5/21/2004	WARRANTY DEED	<a href="#">652628</a>	1590-222	\$149,000
10/25/2001	QUIT CLAIM DEED	<a href="#">590938</a>	1298-553	\$0
8/18/1999	AFFIDAVIT	<a href="#">550638</a>	1146-31	\$0
8/12/1999	WARRANTY DEED	<a href="#">550640</a>	1146-34	\$33,000
2/10/1998	DEATH CERTIFICATE	<a href="#">550639</a>	1146-33	\$0
2/25/1994	QUIT CLAIM DEED	<a href="#">459672</a>	0893-0742	\$0
6/29/1982	WARRANTY DEED	<a href="#">329283</a>	0602-0972	\$0

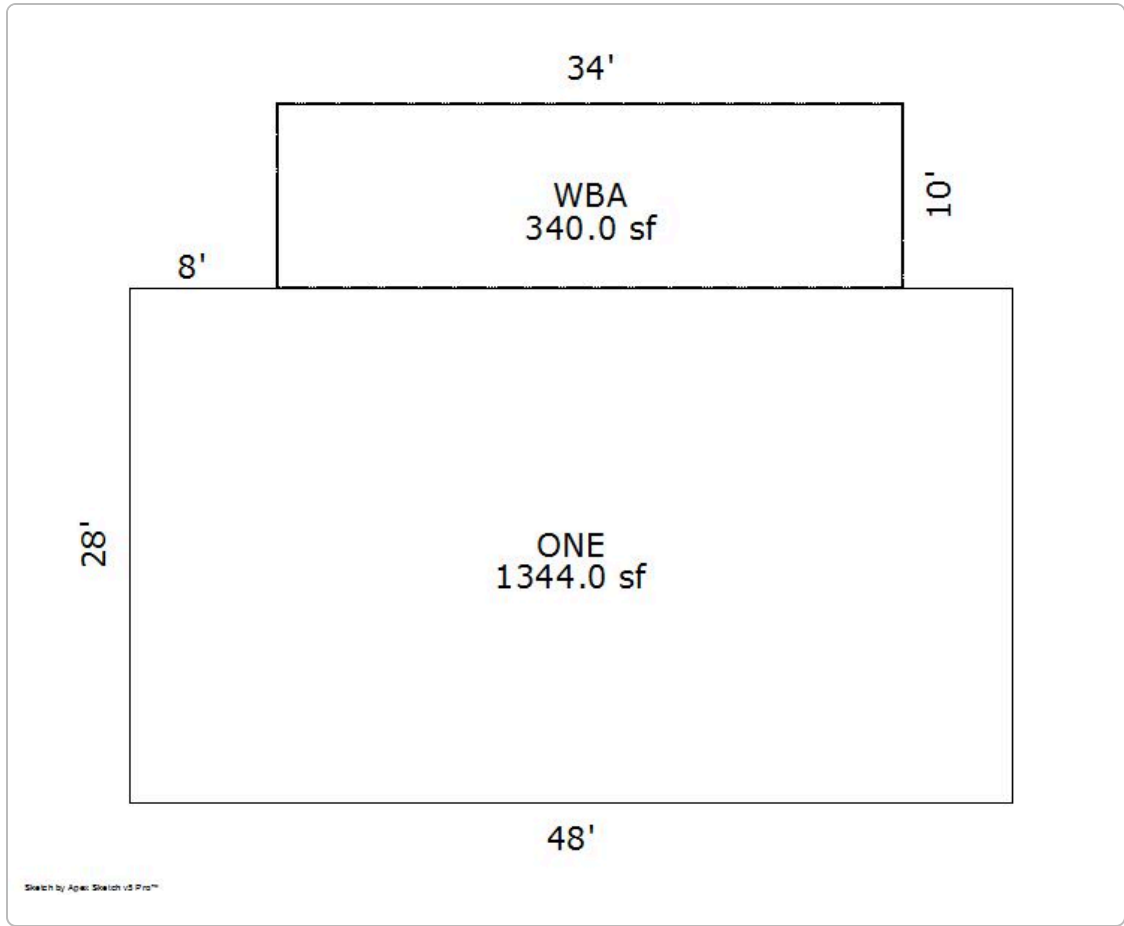
**Property Related Public Documents**

[Click here to view Property Related Public Documents](#)

**Photos**



**Sketches**



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Last Data Upload: 3/29/2024, 12:10:57 AM

[Contact Us](#)





# Onsite Wastewater Treatment System (OWTS) Alternating System Tracking Sheet

Date Rotated	Seepage Pit in driveway (northwest)	Seepage Pit (east) (1999)
	(2024)	

# Residential Biotube® Effluent Filters

## Applications

Our patented\* 4-in. (100-mm) Biotube Effluent Filters, Biotube Jr., Biotube Insert Filters, and Biotube Base Inlet Filters are ideal for residential septic tanks and have a lifetime warranty. They prevent large solids from leaving the tank, dramatically improving wastewater quality and extending the life of residential drainfields.

4-in. (100-mm) Biotube Effluent Filter



4-in. (100-mm) Biotube Jr.  
(4-in. Biotube cartridge available separately as Insert Filter)



8-in. (200-mm) Base Inlet Filter



4-in. (100-mm) Insert Filter



Orenco's superior effluent filters resist clogging better than all other brands. Our standard, full-sized 4-in. (100-mm) Biotube Effluent Filter provides maximum long-term protection in a complete package, with housing. Our 4-in. (100-mm) Biotube Jr., at half the size of our standard model, has more filtering capacity than the full-sized filters sold by other manufacturers. For tanks with existing outlet tees, the Biotube Insert Filter is ideal. And for low-profile tanks, there's the Base Inlet Filter.

\* Covered by patent numbers 5,492,635 and 4,439,323

## To Order

Call your nearest Orenco Systems®, Inc. distributor. For nearest distributor, call Orenco at 800-348-9843 or go to [www.orenco.com](http://www.orenco.com) and click on "Distributor Locator."

APS-FT-1  
Rev. 3.4 © 11/10  
Orenco Systems®, Inc.

## Standard Features & Benefits

- Has 5-10 times more flow area than other brands, so lasts many times longer between cleanings, increasing homeowner satisfaction
- Installs in minutes inside new or existing tanks; extendible tee handle for easy removal
- Easy to clean by simply hosing off whenever the tank needs pumping
- Removes about two-thirds of suspended solids, on average, extending drainfield life
- Corrosion-proof construction, to ensure long life
- Lifetime warranty

## Optional Features & Benefits

- Alarm available, to signal the need for cleaning
- Flow modulating discharge orifices available to limit flow rate leaving tank, mitigating surges and increasing retention time
- Custom and commercial sizes available

## Biotube Filtering Process

Effluent from the relatively clear zone of the septic tank, between the scum and sludge layers, horizontally enters the Biotube Effluent Filter. Effluent then enters the annular space between the housing and the Biotubes, utilizing the Biotubes' entire surface for filtering. Particles larger than the Biotube's mesh are prevented from leaving the tank.



**Orenco Systems®**  
Incorporated

*Changing the Way the  
World Does Wastewater®*

[www.orenco.com](http://www.orenco.com)

**Item #**  
**BRVBULK**

# Bull™ Run Valve & Key

The Bull Run Valve is available in 4" SCH 40 PVC and is suitable wherever septic disposal systems are used – in commercial, industrial, and residential application.



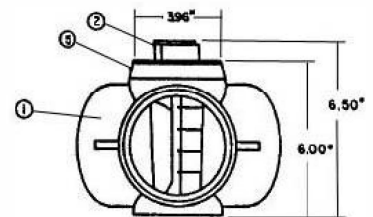
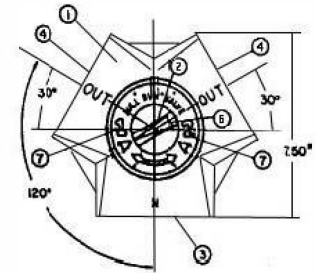
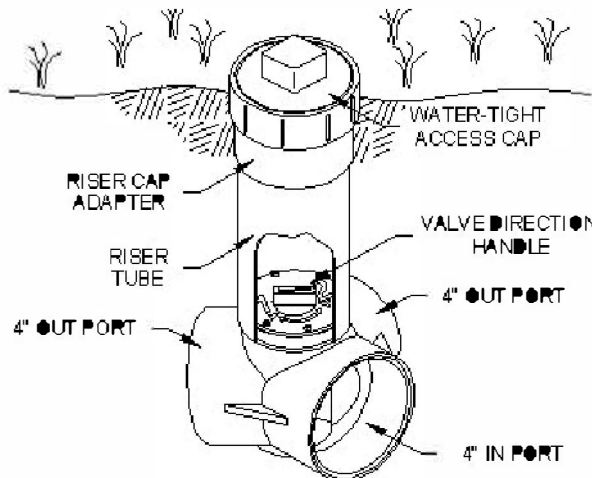
## OPERATING THE VALVE

The direction control handle should be rotated periodically to direct effluent to one or the other of two septic fields. After removing the screw cap at the top of the riser tube, the valve handle can be turned with the valve key furnished.

## ADAPTABLE TO VARIOUS PIPES

Each valve port connection is a 4" schedule 40 female slip connection. The riser tube connection is a 4" schedule 40 male slip connection. Use ample PVC, ABS, or multi-purpose glue to form a water-tight joint. Any of the following can be used to connect the valve:

- 1) Schedule 40 PVC or ABS pipe
- 2) Adapter bushing (Dwv Hub to sewer & drain spigot)
- 3) ASTM 2729 (Schedule 30)
- 4) Bell End of ASTM 2729 (Schedule 30) pipe



**Water &  
Wastewater**

- Systems
- Products
- Service

**(719) 395-6764**

**Fax: (719) 395-3727**

**Website: [www.valleyprecast.com](http://www.valleyprecast.com)**

**Email: [frontdesk@valleyprecast.com](mailto:frontdesk@valleyprecast.com)**

**28005 Co. Rd. 317**

**P.O. Box 925**

**Buena Vista, CO 81211**

# Nomenclatures

## 4-in. Biotube Filter (standard)

FT   **04**   -

- Options:  
 Blank = no options  
 M = flow modulation plate installed  
 A = float bracket attached

Cartridge height: 28" and 36" are standard

Housing height: 36" and 44" are standard

Filter diameter (inches)

W = fits Type 3034 outlet pipe  
 S = fits Schedule 40 outlet pipe

Blank = 1/8" filtration  
 P = 1/16" filtration

Biotube effluent filter series

## 8-in. Biotube Filter (base inlet model)

FT  **08 22 - 14 B**

- Options:  
 A = float bracket  
 FS = 2" outlet orifice  
 FSO = 2" outlet orifice and overflow plate\*

Base inlet model

Cartridge height: 14" standard

Housing height: 22" standard

Filter diameter (inches)  
 08 = 8"

Blank = 1/8" filtration  
 P = 1/16" filtration

Biotube effluent filter series

\* Also available with coupling and sleeve as a "kit": FT-OVERFLOWKIT

## 4-in. Biotube Jr. (includes cartridge and housing)

FT J   **04 18**

- Options:  
 Blank = no options  
 M = flow modulation plate installed  
 A = float bracket attached

Cartridge height (inches)

Filter diameter (inches)

W = fits Type 3034 outlet tee  
 S = fits Schedule 40 outlet tee

Blank = 1/8" filtration  
 P = 1/16" filtration

Junior series

Biotube effluent filter series

## 4-in. Biotube Filter Insert (cartridge only)

FT i  **04 18** -  -

For customized options (e.g., NC indicates North Carolina regions)

W = fits Type 3034 outlet tee  
 S = fits Schedule 40 outlet tee

Cartridge height (inches)

Filter diameter (inches)

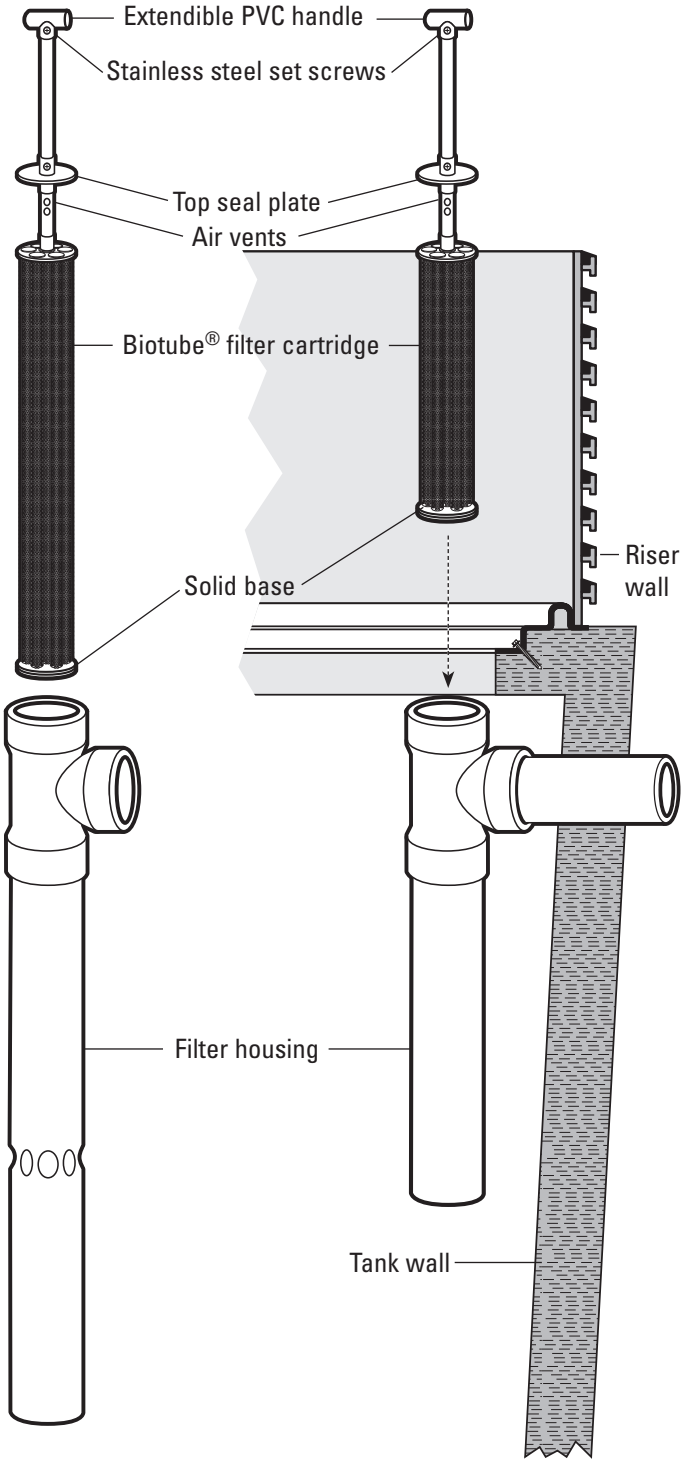
Blank = 1/8" filtration  
 P = 1/16" filtration

Insert

Biotube effluent filter series

## 4-in. Biotube Effluent Filter

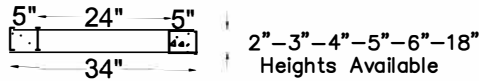
## 4-in. Biotube Jr.



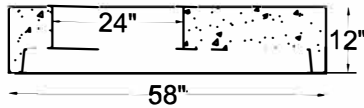
Distributed By:

# 48" Manhole Products

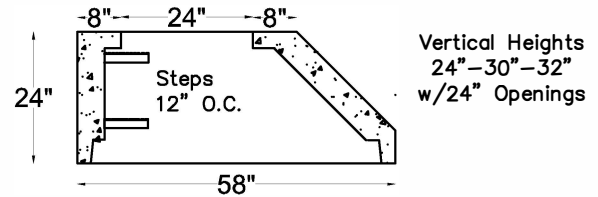
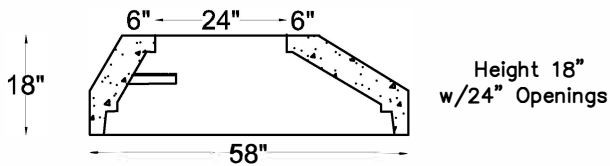
## Grade Adjustment Rings



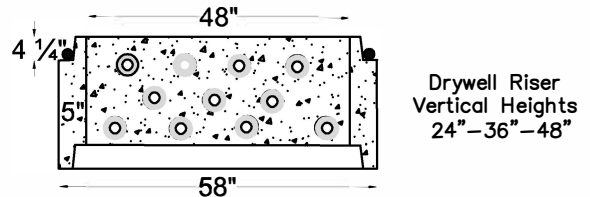
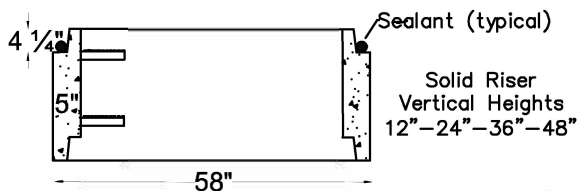
### Flat Top



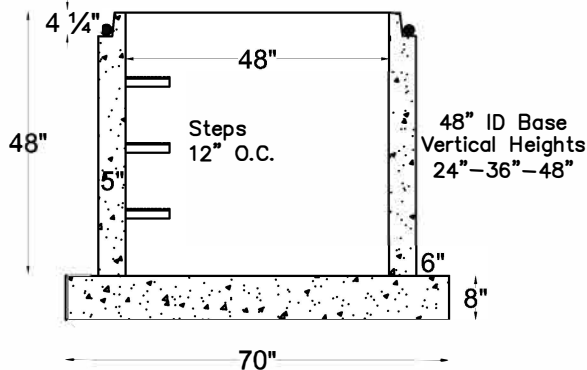
### Cone Sections



### Riser Sections



### Base Sections

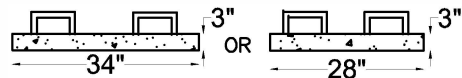


48" ID Manhole Technical Sheet

Type	Wall Thickness	Thickness	O.D.	Weight#	Steel	Gallons/Ft.
12" SR	5"		58"	810	(2) .25 in. hoops	95 gal
24" SR	5"		58"	1620	(2) .25 in. hoops	
36" SR	5"		58"	2430	(3) .25 in. hoops	
48" SR	5"		58"	3240	(3) .25 in. hoops	
24" DW	4.5"		57"	1280	(2) .25 in. hoops	
36" DW	4.5"		57"	1920	(3) .25 in. hoops	
48" DW	4.5"		57"	2560	(3) .25 in. hoops	
12" FT	-	8"	58"	1620	(2) layers .12 in. <sup>2</sup> grid	
18" EC	5"		58"	1310	(2) .25 in. hoops	
24" EC	5"		58"	1580	(2) .25 in. hoops	
30" EC	5"		58"	1895	(3) .25 in. hoops	
32" EC	5"		58"	2060	(3) .25 in. hoops	
24" Base	5"	8" Base	58"/70"	4200	(2) layers .12 in. <sup>2</sup> grid	
36" Base	5"	8" Base	58"/70"	5010	(2) layers .12 in. <sup>2</sup> grid	
48" Base	5"	8" Base	58"/70"	5820	(2) layers .12 in. <sup>2</sup> grid	

- ASTM C-478
- Steps, blockouts, coatings and boot options available
- Different options and configurations available
- 6000 psi concrete
- Reinforced with welded wire
- Precast grout inverts available upon request

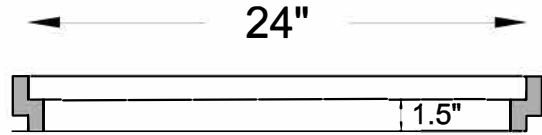
### Flat Lid



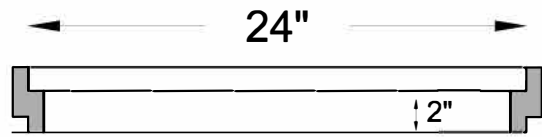
Item #  
CI-GR

## Cast Iron Extension Rings

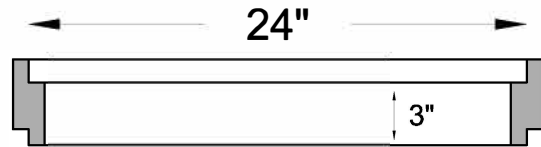
1.5" Extension Ring  
45 lbs



2" Extension Ring  
58 lbs



3" Extension Ring  
72 lbs



4" Extension Ring  
93 lbs



 **VALLEY  
PRECAST, Inc.**  
Buena Vista, Colorado

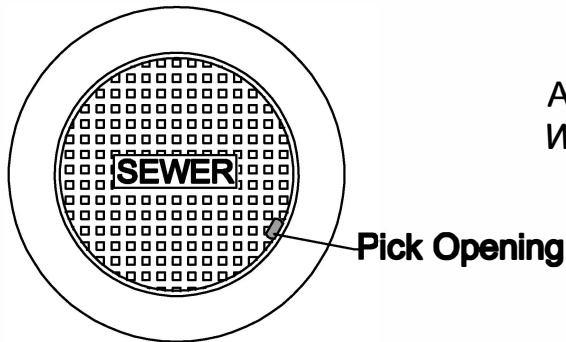
Phone: 719-395-6764  
Fax: 719-395-3727  
Website: [www.valleyprecast.com](http://www.valleyprecast.com)  
Email: [frontdesk@valleyprecast.com](mailto:frontdesk@valleyprecast.com)

# Sewer Ring & Cover & Grated Lid

Item #

CI-4, CI-6, CI-8, CI-G

(4", 6" and 8")



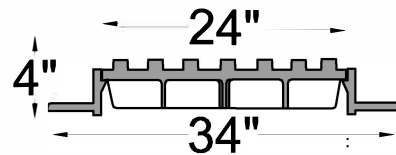
Available with covers marked  
*WATER, STORM SEWER, SEWER*

## 4" Sewer Ring & Cover

Approximate Weight:

Cover: 165 lbs

Ring: 135 lbs

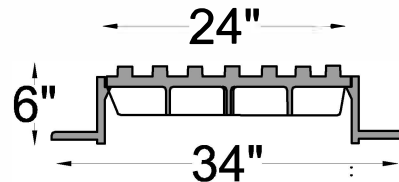


## 6" Sewer Ring & Cover

Approximate Weight:

Cover: 165 lbs

Ring: 185 lbs

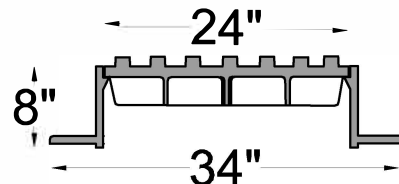


## 8" Sewer Ring & Cover

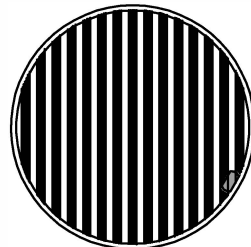
Approximate Weight:

Cover: 165 lbs

Ring: 235 lbs



Grated Lid  
24" Diameter



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