San Juan County Colorado Application for Improvement Permit

Applicant: Adam Rex and Spencer Rex

Date: 1/1/2024

Property: Forst Lode Claim

Description of build: 3 bed, 3 bath house, up to 3900sqft

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Application for Improvement Permit

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Adam and Spencer Rex	APPROVAL CHEEKLIST	Initial	Pain		
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	Geologic Hazard				
	Floodptale Hazard				
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	Historic Site Impact				
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Date Submitted for Parmit	State Division of Water Resource				
Date Parmit Junet	Adequate Water Source	-1	1		
Date Permit Desired	Well Permit	_	-		
Reason for Denial	Central Water Distribution	-	-		
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	Access Approval				
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Background/Updates

Adam Rex previously obtained an improvement permit to build a 2000 square foot house on the Forst Lode Claim on September 14th 2022. During this process, permission to use the house as a vacation rental was proposed and denied by the county commissioners. Denial of our application was because our plan of access for guests during the winter wasn't deemed safe by the commission.

In this new application, we are asking for 3 changes to the approval already received. The first is to increase the square footage of the house to up to 3900 square feet. The increase is due to the addition of a loft and a covered porch, the footprint of the actual house hasn't changed. The second approval will be for home access for guests in the winter. The third is for vacation rental usage of the house in the summer. Additional details are in the project overview and commercial use sections.

Since obtaining the initial improvement permit, ownership of the Forst Lode was transferred from Adam Rex's name to Kendall Mountain House LLC, which is owned by Adam and Spencer Rex.

Project Overview

This application is to build up to a 3900 sqft, 3 bed, 3 bath house on Kendall Mountain, just off of County Rd 33. Adam is a licensed general contractor from Escalante Utah and will be building the house himself. Adam has over 20 years of experience building upscale homes in Lake Tahoe, California and in Escalante, Utah. Some examples of his work include the Escalante Cliff House and Birch Creek House in Escalante Utah (escalantecliffhouse.com & birchcreekhouse.com).

We're seeking permission to use the house as a normal vacation rental in the summer. In the winter, the house will only be used by guests who are guided to the property by a back country guiding company who is permitted to guide on Kendall Mountain, such as San Juan Expeditions. These are the standards to which similar back country lodges in the area operate.

The house will be invisible from county road 33 or highway 550. We put story poles up on the property that are higher than the house will be, and we couldn't see them from either road.

The cumulative impact of the house on the surrounding properties will be very small for the simple fact that most of the surrounding land is BLM land. Within 1500' of the property, there are only 2 other properties, the Manson Claim and the Lady Forst Claim and both of those claims have no improvements.

This house will be completely off the grid and will be built in such a way as to cause minimal disturbance to the beautiful mountain landscape surrounding it. Water will be drawn from a spring on the property that will be piped to the house and stored in a 1500-gallon cistern in the basement of the house. This water will be used for domestic uses as well as for firefighting if the need arise.

Wastewater will be treated on site using a waste water treatment system.

For electricity, solar panels will be installed on the roof with batteries in the basement. For house heat, water heaters, stove and oven we will use propane. The propane tank will be 500 gallons and will sit just to the side of the house.

The development will be in compliance with San Juan County Dark Skies Regulations and San Juan County Fire Regulations.

Commercial Use

Winter

During the winter, the property will operate as a back country lodge and only be accessible via snow machine or skis. The only paying customers that will access the house in the winter will be escorted by guides that are licensed to guide on Kendall Mountain. We have a commitment from San Juan Expeditions to provide this service for us.

Parking for guests in the winter will be coordinated by the company escorting the guests, which is a service they provide to all their guests. The company will be responsible for moving vehicles for snow plow operations.

Summer and Fall

The house will be accessible during the summer/fall by 4WD/OHV. We will ensure that there is parking for at least 2 vehicles at the house and make it a rule that guests aren't allowed to park on CR33. We will reserve the right to cancel bookings if the fire danger in the area becomes extreme so as to not endanger our guests or first responders.

Spring

We anticipate that there will be a mud season in the spring were getting to the house will be impossible. Depending on the year we think this'll be sometime in the April-June timeframe. The house will remain unoccupied during mud season so that we or our guests aren't tearing up the road or getting stuck going to and from the house.

Scenic Quality Report

Overview

In February 2023 we went to the Forst Lode claim to erect a 30' story pole with an orange hunting vest on the proposed build site. 30' was chosen as this will be the max height for the house. It was immediately obvious that the trees surrounding the house are much higher than 30'. After setting up the pole, we went to try and spot it from CR33 and highway 550. As the pictures below show, it was impossible to see the story pole from either CR33 or highway 550, at an spot along those roads. After completing this exercise, we're confident that the finished house will be invisible from view, even after clearing trees around the house to lessen the fire hazard.

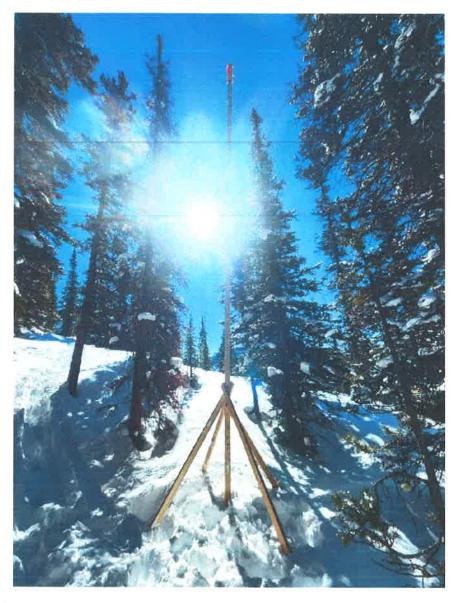


Figure 1. The location of the proposed building location, marked with the 30' story pole.

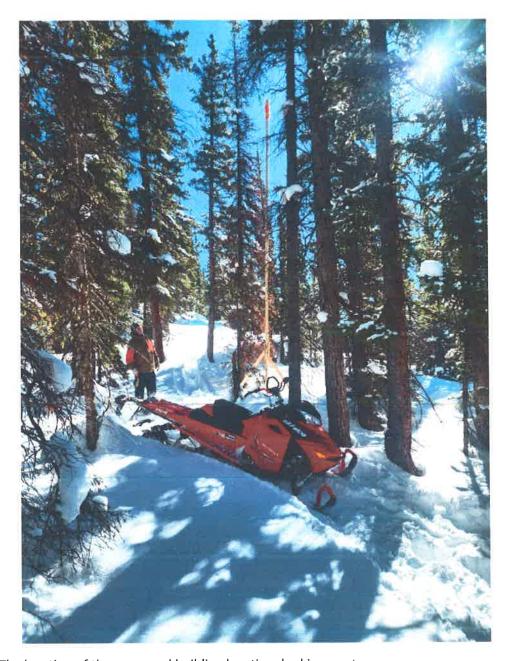


Figure 2. The location of the proposed building location, looking west.



Figure 3. The location of the proposed building location, looking west.

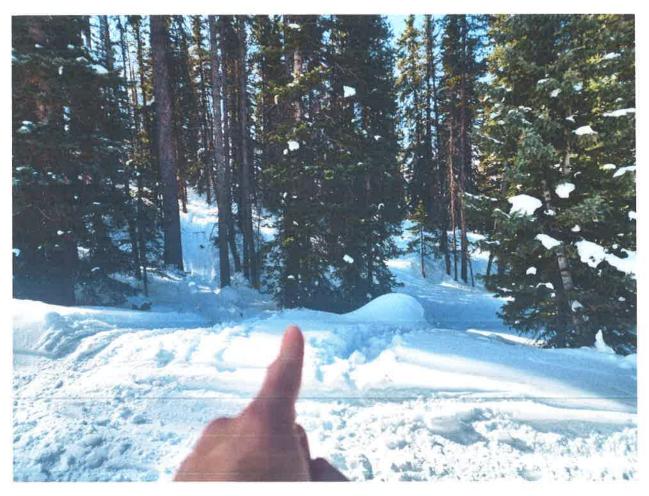


Figure 4. The location of the proposed building location, as seen from county road 33. There was no other location on the road from which one can see the building site. This is the closest spot to the build site.

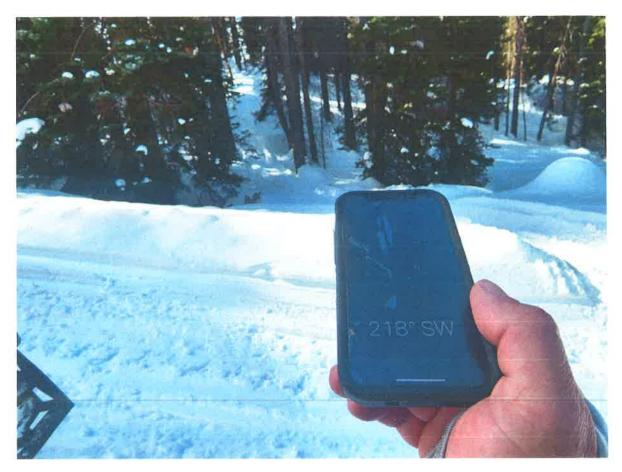


Figure 5. Showing that the direction of the photo in figure 4 is looking SW towards the build site from county road 33.

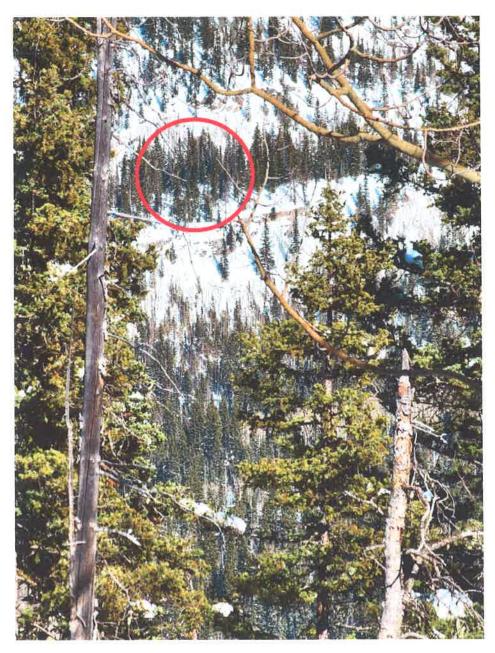


Figure 6. A 10x zoom photograph taken from highway 550 looking NW across the Animas river. The red circle indicates the area where the story pole is. We were not able to visually locate the story pole from highway 550.

Cumulative Impact Report

Summary

The building of a house on the Forst Lode Claim will not have a large impact on surrounding land owners. This is mostly because there are only 2 claims within 1500ft of the ALO map produced for this project by Kim Buck. Those claims are the Lady Forst Claim and the Manson Claim. The details and description of the Claims are below. The date gathered for this report are the same as other cumulative impact reports that Lisa Adair has done in the past.

Manson Claim

This claim is owned by Adam Rex (49%) and Michael Steadman (51%). The land is accessible as CR33 passes through it. The claim is 8.99 acres and contains some avalanche zone and geologic hazard zone. The property is mostly wooded with some clearing and is all below 11000ft. This property has no improvements on it and is unlikely to be built on for the simple fact that I, Adam Rex, own half of it and I have no desire to develop it.

Lady Forst Claim

This claim is owned by William Rogers (100%). The land is accessible as CR33 passes through it. The claim is 8.25 acres and contains some avalanche zone and very little geologic hazard zone. The property is mostly wooded with some clearing and is before the Forst Lode claim as you drive from Silverton up CR33. This property has no improvements on it but could probably be built on some time in the future.

Building Permit Application



Building Permit Application

SIR GERM DEDICT CO.
Address of Job Sile: County Rd 33 TBD - Forst Lode
Class of Work:
NEW 🔼 ADDITION 🗆 ALTERATIONS 🗀 REPAIR 🗀 MOVE 🗀 OTHER 🗀
Property Owner: Adam and Spencer Rex Phone: 435-618-1119 Mailing Address: Po Box 178
City: Escalante State: UT Zip Code: 84726
Email Address: Pertavation@ amail.com
Contractor: Adam Rex Phone: 435-618-1119
Legal Description:
LOT NO.(S): 1943 BLOCK: ZONE: '(If Applicable) ADDITION:
"Hazard: NONE 🖾 FLOOD 🗀 AVALANCHE 🗖 SLOPE 🗀
Structural Information: "Req if NEW Structure: "Survey Provided: YES NO Designed By: Designed By: SQ.FT: <3900 HEIGHT: <30' TOTAL UNITS: 1 TOTAL ROOMS: 3
Describe All Work To Be Done:
Construction of a 3 bed, 3 bath, <a>-3900sgft house with the associated water works and septic system.
Printed Name: Spencer Rex Signature: Apencer Date: 12-27-23
(Staff Use ONLY)
Total Estimated Valuation of Work: \$ Estimated Permit Fee: \$ (Including Labor and Materials)

Basic Plan Map

CONSTRUCT NEW SOIL TREATMENT AREA (STA) [UNLINED SAND FILTER BED WITH PRESSURE DISTRIBUTION]

-EXCAVATE 12' X 39' BED INTO FRACTURED BEDROCK, MIN 60" DEEP -THOROUGHLY FRACTURE BEDROCK BY MECHANICAL/BLASTING MEANS TO RESULT IN FREE DRAINING

CONDITIONS BELOW BED

FILL BED WITH 36" MIN OF "SAND FILTER TREATMENT MEDIA" (SEE SAND SPECIFICATIONS ELSEWHERE) PLACE 8" LIFT OF 3/4" WASHED CRUSHED OR SCREENED STONE

-CONSTRUCT PRESSURE DISTRIBUTION SYSTEM (SEE NOTES ELSEWHERE)

-PLACE 4" LIFT OF 3/4" WASHED CRUSHED OR SCREENED STONE COVER

-COVER BED WITH GEOTEXTILE FABRIC
-COVER WITH 12" MIN SANDY LOAM / TOPSOIL. GRADE SYSTEM AREA TO DRAIN, AND ESTABLISH FINAL
VEGETATIVE COVER (ALPINE MIX)



ALL LOCATIONS MAY VARY

LOCATE WELL/CISTERN MIN 50' FROM SEPTIC TANK MIN 100' FROM STA

WATER SUPPLY: TO BE DETERMINED EXISTING DATA FROM SAN JIAN COUNTY GIS OR 8/27/22 AERIAL PHOTOGRAPHY ALL LOCATIONS ARE APPROXIMATE ONLY



dudley ashwood, p.e.

civil engineer

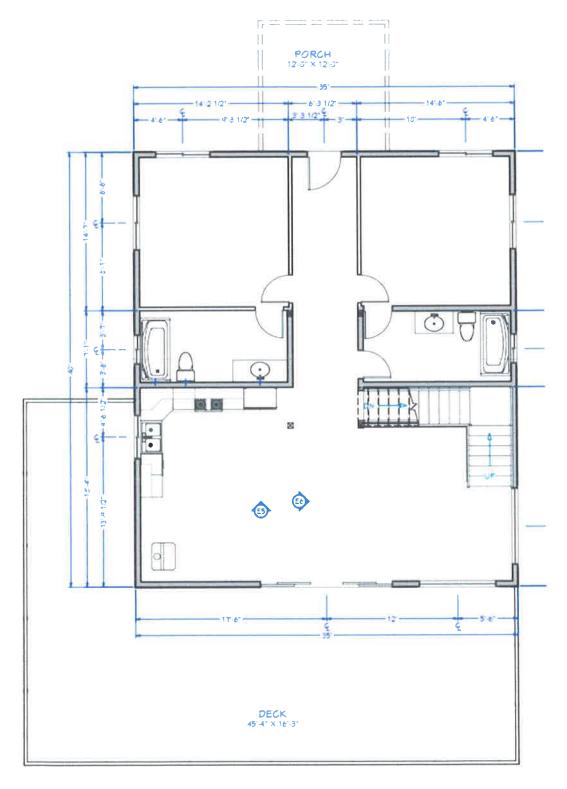
177 903 9811 dudley, astracod@gross.com

SITE PLAN

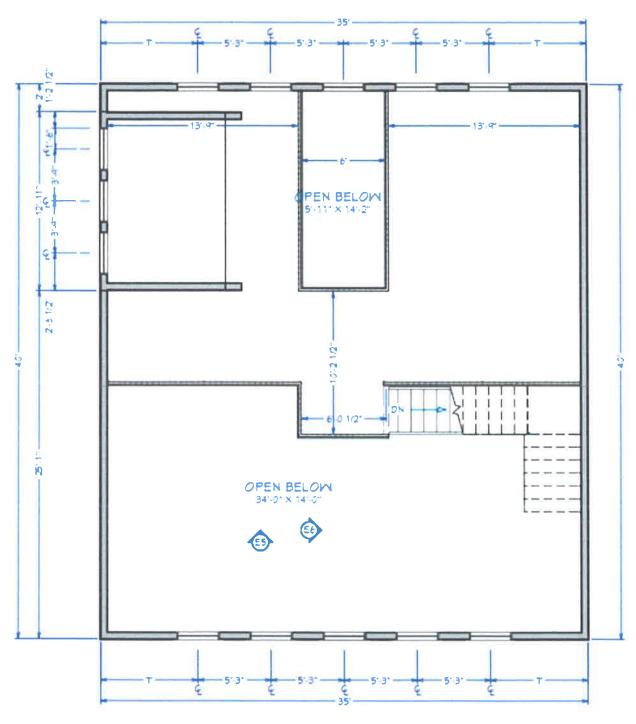
PROPERTY OF REX ADAM CR 33 - MS 18463 - FORST SILVERTON, CO

56P1EHBER 12, 2025 5CALE II + 40'

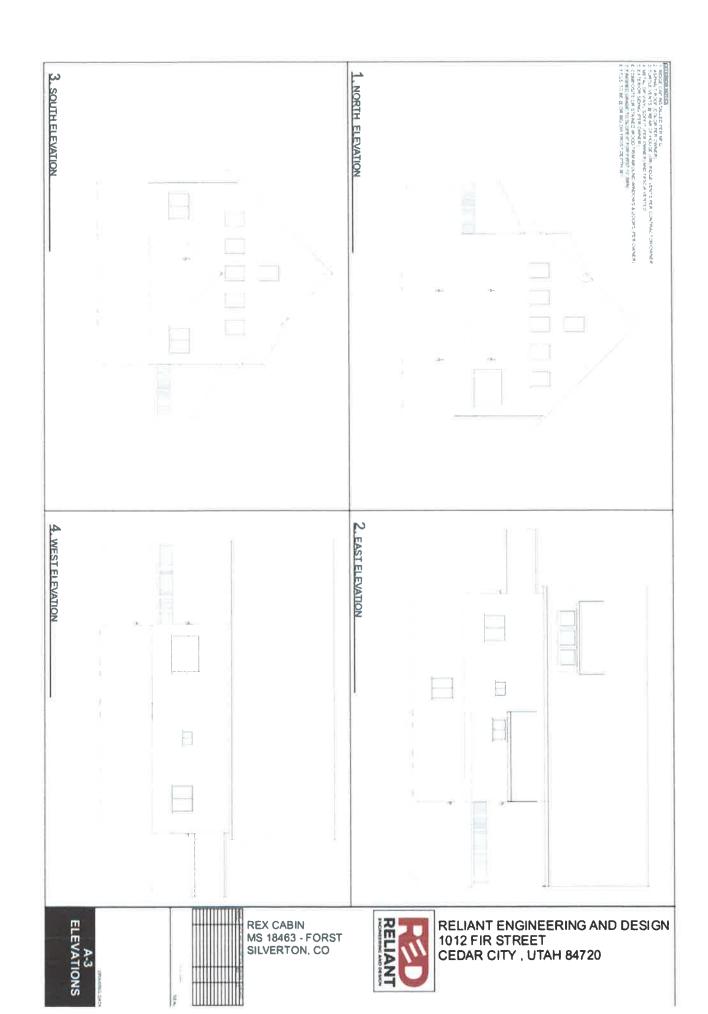
Plans and Drawings

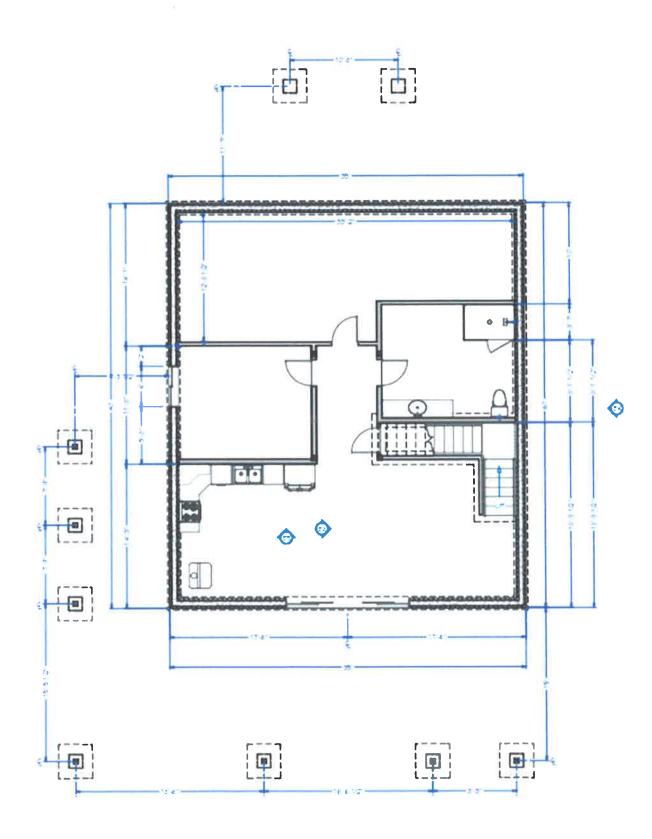


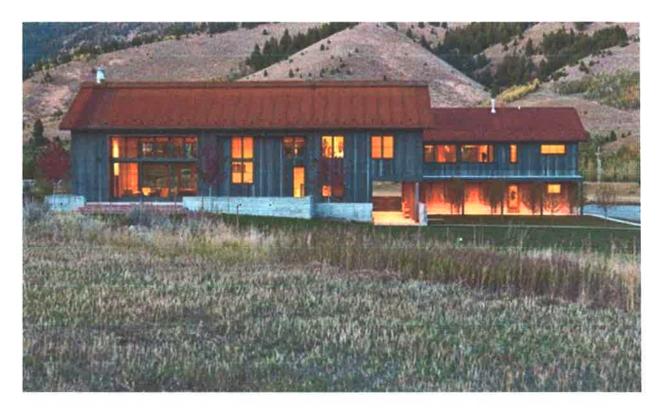
1st Floor



Loft







The exterior colors of the house will match this building's exterior colors giving the house a "Mountain Modern" style.

Road System Relationship

BOARD OF COUNTY COMMISSIONERS San Juan County

P.O. Box 466

Silverton, Colorado 81433

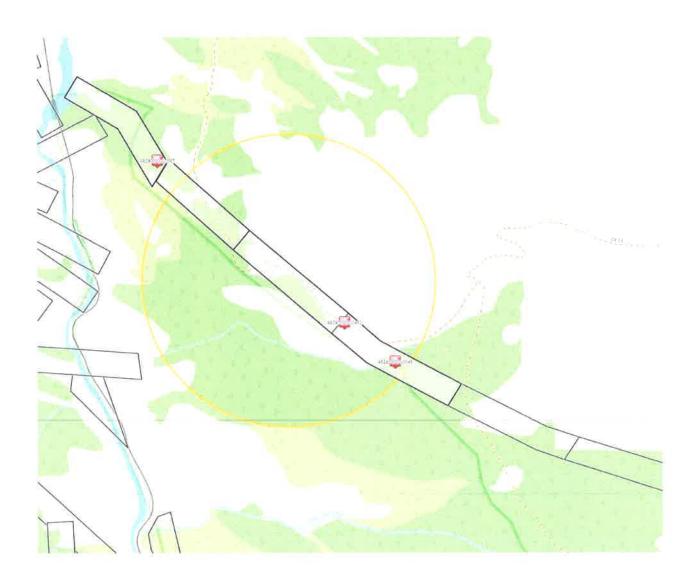
970-387-5671

RELATIONSHIP OF PROPERTY TO COUNTY ROAD AND STATE HIGHWAY SYSTEMS
), the undersigned, applicant engaged in the processing of Application for improvement Permit No San Juan County Colorado, do hereby acknowledge the following facts:
1. The real property' which is the subject of said application is of this date located approximatery [1] From County Rose No. [1], the nearest designated and publicly maintained county road.
2. Said County Road No. ———————————————————————————————————
3. The real property which is the subject of said application is of this date located approximately trom Colorado Statilighway No. 2021, the nearest designated state or federal highways
4. Said Colorado State Highway No. The is on this date maintaine on a year-round basis by either San Juan County or the Colorad Division of Highways.
5. A Driveway Permit wirl be necessary for any private access of egress relating to said real property which intersects and designated Colorado State Highway or Federal Highway.
Signed and dated this 6 day of March . 2023. ATTEST: Applicant
ATTEST: Applicant
Position:

Owner Notification



These images and this list were provided to me by Kimberly Buck, San Juan County Assessor.



Account				Legal Description	Website
	TBD COUNTY		15 CARDINAL		
	ROAD 33,		AVE - W SAND	LADY FORST -	
	SILVERTON, CO	RUGERS	LAKE, NY 12196-	18463, LIMESTONE	-
N2159	81433	WILLIAM	2100	18463	https://property.spatialest.com/co/sanjuan/#/property/4829000010037
	TBD COUNTY				
	ROAD 33,		PO BOX 1552 -	MANSON - 18463	
	SILVERTON, CO	STEADMAN	BOULDER, UT	UND 51% INT IN	
N2165	81433	MICHAEL N	84716-1552	8.99 ACRES	https://property.spatialest.com/co/sanjuan/#/property/4829000010045
	TBD COUNTY				
	ROAD 33,		PO BOX 178 -	FORST - 18463,	
	SILVERTON, CO		ESCALANTE, UT	MANSON - 18463	
N2210	81433	REX ADAM	84726-0178	UND 49% INT	https://property.spatialest.com/co/sanjuan/#/property/48290000010452

Sewage Disposal

dudley ashwood, p.e.

September 12, 2023

NEW ON-SITE WASTEWATER TREATMENT SYSTEM

PROPERTY OF:

REX ADAMS CR 33 MS 18463 SILVERTON, CO

A new on-site wastewater treatment system (OWTS) is planned to serve a new 3 bedroom house on this property. The planned home site is in the north-central portion of the property. The OWTS will consist of a Septic Tank and a Soil Treatment Area (STA). The STA is planned to the west of the homesite, in a wooded area, in sloping terrain grading to the west where terrain grades are mild, in the 10 +/- % range.

Site soils within the planned STA are shallow, fractured bedrock, and require the use of a single pass sand filter for the STA. Bedrock must be excavated and thoroughly fractured by mechanical/blasting means to result in free draining conditions below the STA. The STA is planned to be constructed as a single pass sand filter, with siphon dosing.

This OWTS is designed in compliance with the requirements of the San Juan Basin Public Health (SJBPD) OWTS 2018 Regulations (1)

STA location:

- 37°46.983' N 107°39.513 W +/-
- · elevation 10,400 feet
- · USDA/NRCS soils are reported as Rock outcrop Snowdon
- · mean annual precipitation: 25 to 40 inches
 - parent material: rock
 landform: mountain slope
 slope: west 10 +/- %

Soils nearby the planned STA are shallow stony loam over fractured bedrock: [Soil Type R-0][Table 10-1A⁽²⁾]

Wastewater Flow: Table 6-1(2): Residential: 3 bedrooms: Qp = 450 gpd

Septic Tank: Table 9-1(2): provide 1000 gallon septic tank with effluent screen

Siphon Tank: provide 500 gallon tank

Proposed STA: single pass sand filter with Drainrock Bed and Siphon Dosing Pressure

Distribution (provide 30-72" distal head)

Soil Type: from visual and tactile inspection: unweathered bedrock, Table 10-1A(2): Soil Type is R-0

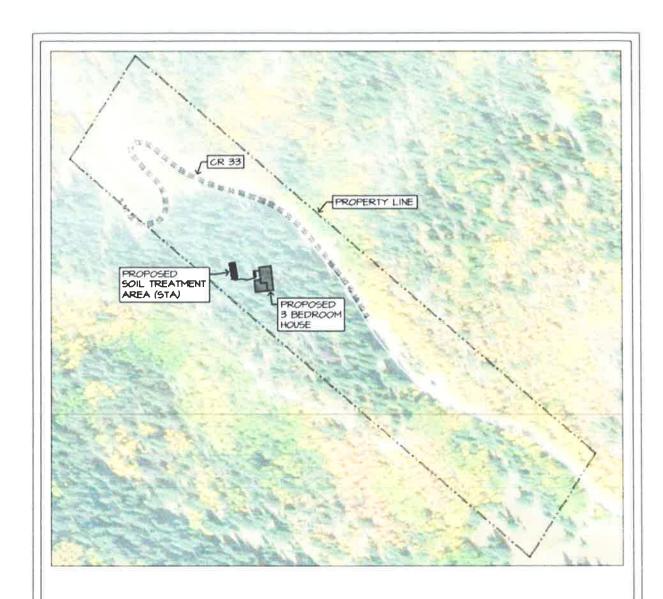
- STA: Single pass sand filter required, with "Preferred Sand": LTAR = 1.0 gpd/sf Table 10-1A(2)
- · C&J (Durango) currently acceptable
- STA area required = 450 gpd / 1.00 gpd/sf = 450 sf
- STA Size Adjustment/Application: no size adjustments apply
- STA area required = 450 st
- · provide 12' bed width
- bed length = 450 sf / 12 = 37.5, provide bed length = 38'
- pressure distribution (see attached OSI worksheet)

dudley ashwood, p.e.

- provide minimum 5' grade elevation drop from siphon tank invert to STA manifold invert for distal head = 3' +/- (see attached OSI worksheet)
- dose volume = 5' x 5' x 17"/12" x 7.48 = 265 gallons
- design flow = 450 gpd
- dose frequency = 450 gpd / 265 gal = 1.7 times per day
- dose length = 265 gal / 43.6 gpm = 6 minutes
- · provide:
 - · provide 1000 gallon septic tank with effluent screen
 - 500 gallon siphon tank with siphon
 - Soil Treatment Area:
 - 12' x 38' single pass sand filter bed : STA A = 456 SF
 - · siphon dosing pressurized effluent distribution
 - 3 1.5" sch 40 pvc laterals w/ 3/16" orifice @ 4' o.c.

· All OWTS work shall be inspected and certified by the design engineer





WATER SUPPLY: TO BE DETERMINED
EXISTING DATA FROM SAN JUAN COUNTY GIS
OR 8/21/22 AERIAL PHOTOGRAPHY
ALL LOCATIONS ARE APPROXIMATE ONLY



dudley ashwood, p.e.

civil engineer

1901 munderbod road i bespelus inc. 81,326 970 900 9811 — dudiey ashwood@igmail.com LOCATION PLAN

PROPERTY OF REX ADAM CR 33 - MS 18463 - FORST SILVERTON, CO

SEPTEMBER 12, 2025 SCALE II + 2001

0 100 200

SAN JUAN BASIN public health

281 Sawyer Drive Durango, CO 81303 Phone: (970) 247-5702

PERMIT #: WWP2023-0319 ISSUED: 09/22/2023 EXPIRES: 09/22/2024

ON-SITE WASTE WATER TREATMENT PERMIT

APPLICANT		PROPERTY OWNER	INSTALLER	
ADAM REX PO BOX 178 ESCALANTE, UT 84726-0355 (435) 618-1119		ADAM REX PO BOX 178 ESCALANTE, UT 84726-0355 (435) 618-1119		
ADDRESS:	MINERAL SURVEY N	UM 18463	PARCEL #: 482900000	0452-S
PERMIT TYPE:	CONSTRUCTION		SUBDIVISION:	
LOT #: DWELLING UNITS: SITE EVAL LTAR: DEPTH:		1	LOT SIZE (ACRES): 14.74 BEDROOMS: 3 LIMITING ZONE: Fractured B WATER SUPPLY: Well	edrock
SEPTIC TANKS:	1000 gal + 500 ga	d .		
DESIGN FLOW:	450 GPD			
DISTRIBUTION:	Pressure, Siphon			
SOIL TREATMENT	12' x 38' bed 36" minimum pref 12" of 3/4" washe Three 1.5" laterals		vation	
*Preferred sand medi REQUIRED PRIOR T	a" as defined in Regula	tion 43.11.C.2.d.(2) must be use	d as sand filter material. A GRAD	ATION OF MATERIAL IS
	ock or other material move the top of the distrib		e gravel, rock or other material m	ust fill around the pipe
		irements as defined in Regulatio quired at the time of construction	n 43.10.E.3, including a distal operinspection.	erating head of 30-72
	AUTHO	RIZATION TO BEGIN CONSTR	UCTION OR REPAIRS	
of the SJBPH On-si	te Wastewater Treatme	ent System regulations must be c	ion, subject to the above special omplied with whether specified he ocal law or regulation governing or	rein or not. The granting
			Oramino Park	9.22.23
		-	Authorized By	Date
		FINAL INSPECT	ION	
The above system h	as been inspected an		uirements as described on the	issued permit.
DUDLEY ASHWOO 1961 THUNDERBIR HESPERUS, CO 81 System Designed by	D RD	ne) Finalize	ed By Date	
Cystom Coargined by	triamo, writerity, prio	rio, cillanas	, Date	

Adequate Water Source

Notice of Intent to Make Absolute

TOTICE OF THEELE IS THE	NOT
	N.O.I. # (Assigned by SWCD)
The below identified applicant hereby notices its intent to a Service Area conditional water right decreed in Case No. Conditions decreed therein. Use additional pages as needed.	06CW127 consistent with the terms and
Applicant Information:	428 (10 1110
Name: Adam Rex	Telephone: 435-618-1119
Email Address: rexcavation@gmail.com	W (96)
Mailing Address: PO Box 178 Escalante U (The approved NOI will be mailed to this address)	Jtah 84726
Prospective Water Right Increment Information:	
Proposed Use of Water (e.g. domestic, irrigation, commen	cial):
Domestic	
Description of Course (organization of Course)	
Proposed Source (groundwater, surface water): Surface Water	
Surface Water	
Proposed Place of Use (include parcel # if possible):	
48290000010452	
Anticipated Amount of Depletions (number of acres irrigatevaporation, etc. in the time periods per the 06CW127 dec We want to use the water from a spring on my prope	cree). Please carry out to the 6th decimal place:
said property.	•

The applicant is advised and recognizes that the execution of this Notice of Intent to Make Absolute confers no right, title, or interest in water beyond the right to perfect an increment of the Animas Service Area conditional water right consistent with the decree in Case No. 06CW127.

Applicant is hereby given authority by Southwestern Water Conservation District and La Plata County to file an application to make the conditional water right absolute pursuant to the terms and conditions in Case No. 06CW127. The Southwestern Water Conservation District and La Plata County reserve the right to file opposition to such claim if deemed necessary.

Oh a	(4)	*				
Signed for the Applicant, (Title)		_,		3-6-23 (Date)		
organism reppireant, (Title)				(Date)		
Adam Rex	*		31	4		ŧ
Printed Name		_				
				, ·	-	
Governmental Endorsements:						
<u>,</u>						
La Plata County		-	(Date)		19	
र <i>र</i> ःह्					•	1
Printed Name						
	,					
1					· 21	
SWCD		F cry	(Date)			
Printed Name	AND CONTRACTOR SERVICES					

Survey, Geologic Hazard, Avalanche Hazard Maps

Results of Survey

of MS 18463 Forst patented lode mining claim,

