



Onsite Wastewater Treatment System Commercial Installation Permit

Inspection Request Line: (719) 575-8699

Inspection requests must be received prior to 3:00p.m. on standard business days and 1:00p.m. the business day prior to a holiday. Construction installation requests are only accepted when made by the licensed installer or a homeowner having declared intent and been approved to install their own conventional system.

Permit Information			
Permit #: 139470	Record Id: ON0052343	Issued: July 1, 2026	Expires: July 1, 2027
System Information			
OWTS Location: 2850 Mt Herman Rd Monument, CO 80132			
Owner: Jonathan Perez	Schedule: 7122001003	Permit Type: New	
Use: Commercial	Facility Type: Barn	Design Flow: 160GPD	
Distribution: Vault	Treatment Level: TL1	Water Source: Well	
Permit Requirements			
Designer: Colorado Geo-Solutions	Document Id: 26-0279	Document Date: 06.02.2026	
Profile Pit: NA		Profile Pit: NA	
Tank: 1000	Add. Tank: NA	Pump Tank: NA	
STA Depth: NA	STA: NA (NA Q4/ NA Arc 36)	Media: Vault	
Sand Filter: NA	Sand Depth: NA	O&M Required: NA	
Permit Comments			
- Permit is issued for a vault installation for barn WITHOUT LIVING QUARTERS only – Minimum 1000 gallon tank capacity required. - Old tank must be abandoned according to EPCPH Chapter 8 regulations. - All horizontal setbacks must be maintained when installing tank, sanitary Tee (5" above and 8" below operational level) and effluent filter must be installed - Tank must remain uncovered for final inspection; well installation must be complete at time of final inspection - REQUIRED: Control panel must be installed a minimum of 36" above grade as measured from grade to top of the panel. - High water alarm to be installed at 75% vault capacity. FLOODPLAIN PRESENT ON PROPERTY: FP covers the NE property corner. FP extends ~120' W and ~210' S of the NE property corner. OWTS to be installed outside of the floodplain. Review Specialist: Katie Hutcheson Contact: katiehutcheson@elpasoco.com This permit is issued in accordance with 25-10-106 Colorado Revised Statutes. Permit for construction EXPIRES upon completion/installation of the onsite wastewater treatment system (OWTS), or at the end of twelve (12) months from the date of issuance, whichever occurs first. This permit is revokable if all stated requirements are not met. The OWTS must be installed by an El Paso County licensed system contractor, or property owner. The health officer shall assume no responsibility in case of failure or inadequacy of an OWTS, beyond consulting in good faith with the property owner or representative. Access to the property shall be authorized at a reasonable time for the purpose of making such inspections as are necessary to determine compliance with the requirements of this law (permit).			



Onsite Wastewater Treatment System

Application Review: Commercial

Record ID: ON0052343	Permit: New	Approval Date: 07.01.2026	Specialist: Katie Hutcheson
System Permit Information			
OWTS Address: 2850 Mt Herman Rd Monument, CO 80132			
Site Evaluation: NA	Use: Commercial	Treatment Level: TL1	
DSD: 06.25.2026	Floodplain: Yes	Outside of FP: Yes	
Approved Permitted Design Document			
Soil Report			
Engineer: NA	Report Date: NA	Report #: NA	
High Rock Content: NA	Type: NA	LTAR: NA	Groundwater: NA
Bedrock: NA			
Design Document			
Engineer: Colorado Geo-Solutions	Report Date: 06.02.2026	Report #: 26-0279	
Commercial Facility Type: Barn	Design Flow: 160GPD	Flow Calculated: 8 visitors @ 5GPD; 2emp @ 20GPD	
Design flows must be from table 6-2, submission of water data for active facility or year of data from 3 similar facility types.			
Minimum OWTS Requirements			
Tank			
Main Tank (gal): 1000	Secondary Tank (gal): NA	Other Type: NA	Other capacity: NA
Advanced Treatment: NA	Recirculation: NA		
Pump Specifications			
Pump Tank (gal): NA	Pump Model: NA	Dose Type: ☐ Demand ☐ Timed	
Gal/Dose: NA	Flow(gpm): NA	TDH: NA	
Run Time(min): NA	Off Time(min): NA	Override(min): NA	
Soil Treatment Area			
Distribution: VAULT			
Add. Component(s)	☐ Distribution box ☐ Diverter Valve ☐ ADV ☐ Other: NA		
☐ Standard	Sq Ft (10-1): NA	Sq Ft (10-2): NA	Sq Ft (10-3): NA
☐ Mound	Imported LTAR: NA	Chamber Adj.: NA	Dist. Area: NA
	End Slope: NA	Down Slope: NA	Up slope: NA
☐ NDDS	Sq Ft (10-1): NA	NDDS Factor: NA	Sq Ft (NDDS Adj): NA
Media	Type: NA	Configuration: NA	Install Depth: NA
	Q4/Pro36 Cham.: NA	Arc 36 Cham.: NA	Sand Depth: NA
Laterals	Laterals: NA		Rings: NA
	Pipe Diameter: NA	Orifice Size: NA	Orifice Spacing: NA
Review Notes			
Vault installed for intermittent use of barn restroom. The barn contains no living quarters per the floorplan provided; should the barn be remodeled to contain any living quarters further review and the installation of a soil treatment area will be REQUIRED. Vault was installed prior to permit issuance by the property owner. Permit is being sought post-installation. All components required to be exposed for final inspection. Design engineer indicated that due to intermittent use and concentrated waste, although there is space for an STA, a vault is more appropriate at this time. FLOODPLAIN PRESENT ON PROPERTY: FP covers the NE property corner. FP extends ~120' W and ~210' S of the NE property corner. OWTS to be installed outside of the floodplain.			





ONSITE WASTEWATER TREATMENT SYSTEM PERMIT APPLICATION

Property Information			
Applicant name	Jonathan Perez		
Property address	2850 Mt Herman Rd	City, State, Zip	Monument
Phone	(707) 386-8897	Email	jonathanjperez81@gmail.com
Legal description	TRACT 10 PANORAMIC ACRES		
Tax schedule #	7122001003	Lot size	5.94 Acres
Is the property gated?	☒ Yes ☐ No	Code:	Water supply ☒ Well ☐ Cistern ☐ Municipal
Proposed use:	☒ Residential ☐ Multifamily ☐ Commercial		
No. of potential bedrooms:	1	Commercial wastewater flow:	
Is there unfinished space?	☐ Yes ☒ No	Unfinished (sq ft):	Who will install the system? ☒ Homeowner ☐ Licensed Installer
Homeowners requesting to install their own system must complete and submit the Homeowner Installation Affidavit. All engineered-design systems must be installed by a Tier II licensed installer			
Owner Information			
Owner name	Jonathan Perez	Phone	(707) 386-8897
Mailing address	2850 Mt Herman Rd	City, State, Zip	Monument
Owner email	jonathanjperez81@gmail.com		
General contractor		Phone/Email	
System installer		Phone/Email	
Permit Fees as Established by the El Paso County Board of Health Permits expire one year from the date of issuance, unless otherwise noted.			
Invoice, along with payment instructions, will be generated at time of application submission review. Payment is required prior to being assigned for review. Review time applicable after payment is verified.			
☒ New Permit	\$1131.00 includes \$961.00 (EPCPH Charge) + \$147.00 (EPC Planning Dept. Surcharge) + \$23.00 (CDPHE Surcharge)		
Permit fee includes: 1: Application design review, 1: design revision request, 1: site evaluation, 1: inspection and 1: re-inspection. Additional design revisions, site evaluations, or inspections incur additional fees.			
☐ Modification Permit	\$914.00 includes \$891.00 (EPCPH Charge) + \$23.00 (CDPHE Surcharge)		
Permit fee includes: 1: Application design review, 1: design revision request, 1: site evaluation, and 1: inspection. Additional design revisions, site evaluations, or inspections incur additional fees.			
☐ Major Repair Permit	\$914.00 includes \$891.00 (EPCPH Charge) + \$23.00 (CDPHE Surcharge)		
Permit fee includes: 1: Application design review, 1: design revision request, 1: site evaluation, and 1: inspection. Additional design revisions, site evaluations, or inspections incur additional fees.			
☐ Minor Repair Permit	\$577.00 includes \$554.00 (EPCPH Charge) + \$23.00 (CDPHE Surcharge)		
Permit fee includes: 1: Application design review, 1: design revision request, and 1: inspection. Additional design revisions, site evaluations, or inspections incur additional fees.			

Required Additional Property Information	
System type (conventional/engineered)	Engineered - Commercial
Number of structure(s) to be connected	1
Written scope of work To Whom It May Concern, I am writing to request approval for the installation of a vault (holding tank) wastewater system for a proposed part-time use barn located at 2850 Mt Herman Rd, Monument CO 80132 in El Paso County Property tax schedule number: PEB Zoning: RR-5, Residential Rural/Agricultural .	
Please provide directions to the property from a main highway Off of Mt Herman Rd, near Dirty Woman Park in Monument.	
- Property address or lot number must be clearly marked and visible from the road. - Profile excavation test pit and/or soil profile holes must be clearly marked. - Proposed and alternate soil treatment areas must be protected from compaction and disturbance. - Locked gates require the gate code or lock combination be provided on front of application. - Failure to comply with the above information may result in an additional charge for a return trip.	

Required Application Documents
EPCPH will only accept submissions when all required components are included in submission.
Colorado Professional Engineer (P.E.) stamped soils report
Soils report: including at least 2 soil profile excavation pits, in accordance with section 8.5 A-F of OWTS regulations
Calculation/Design worksheet.
New permit applications require submission of the structure floor plan.
Minor repair applications require a clear site plan including proposed connections/components.
Clear legible 8.5'x11' design document
Design document must include, property lines, proposed and alternate locations, profile pit locations with respect to system layout, all setbacks to pertinent structures and features in table 7-1.

Submission of this application certifies that the information provided on this application is in compliance with the El Paso County Board of Health Chapter 8 Onsite Wastewater System (OWTS) Regulations. I also authorize the assigned representative of El Paso County Public Health to enter onto this property in order to obtain information necessary for the issuance of a permit.



Onsite Wastewater Treatment System Homeowner Installation Affidavit

Per section 8.4.L.6 of the El Paso County Board of Health OWTS regulations, any homeowner that proposes to install their own onsite wastewater treatment system (OWTS) shall demonstrate a defined level of competency as determined by EPCPH, which may include testing and/or a meeting with an Environmental Health Specialist prior to the OWTS installation. A homeowner may not install a system that requires a Tier 2 Systems Contractor License. The fee established by the El Paso County Board of Health (EPCBoH), shall be assessed to each homeowner who applies to install an OWTS.

I, Jonathan and Tiffany Perez (homeowner name) am requesting to install a conventional OWTS on property located at 2850 Mt Herman Rd, Monument, CO 80312 (property address); for which I am the registered property owner.

I acknowledge and understand the following requirements and conditions:

1. I understand that contractors, entities, agents, or other persons who do not or will not reside on the property may not perform any work on the OWTS unless licensed to do so.
2. If I intend to have any other person other than me, as the person who owns, resides, or intends to reside on the property, perform any work that requires a license, said person must be appropriately licensed by EPCPH to perform the work.
3. I must submit the appropriate and applicable OWTS Permit Application in addition to the Homeowner Installation Affidavit.
 - a. Homeowner installation fee (\$327.00) is charged in addition to the associated permit fee
4. I understand and acknowledge that by obtaining the OWTS Permit as a homeowner I must follow all applicable EPCBoH Chapter 8 regulations in force at time the work is permitted and performed, including by not limited to:
 - a. Requesting and completing the required Pre-Construction meeting.
 - b. Requesting and completing all required and necessary inspections.
 - c. Meeting all requirements of the Chapter 8 regulations as well as those noted on the permit.
5. Installation of an OWTS, by a homeowner, which requires a design by a registered Colorado Professional Engineer is prohibited.
6. This document is signed by the property owner requesting to complete the installation of the property OWTS. Signature must be notarized prior to being submitted.

By signing below, I hereby acknowledge that I have read and understand the statements in this affidavit. I hereby affirm under penalty of perjury that the statements contained in this affidavit are true to the best of my knowledge and belief.

Signed Acknowledgment

X

Owner(s) name: Jonathan and Tiffany Perez

Date: 6-Mar-2025

This document is required to be notarized prior to OWTS Permit Application submission (see next page).

STATE OF Colorado
COUNTY OF El Paso

The foregoing instrument was acknowledged before me this 14 day of Mar, 2025,
by Jonathan Perez. Witness my
hand and official seal.

Michele Parmeter

Notary Public

My Commission Expires: October 17, 2028



I, the undersigned, do hereby certify that the foregoing instrument is a true and correct copy of the original instrument as the same appears to me.

1. I have read this instrument, and the parties, agents, or other persons who do not reside on the property have not been heard by me as the OWTS permit is to be issued.
2. If I intend to have any other person other than me, as the person who owns, resides, or intends to reside on the property, perform any work that involves a permit, said person must be appropriately licensed to perform the work.

3. I have signed the permit and complete OWTS Permit Application in addition to the "Owner's Responsibilities" form.

4. A fee of \$100.00 (one hundred dollars) is charged in addition to the advertised permit fee. This fee is to be paid by obtaining the OWTS Permit as a homeowner. I must follow all applicable rules and regulations that are in force at the time the work is permitted and performed.

5. Maintaining and completing the required construction meeting.
 6. Maintaining and completing all required and necessary inspections.
 7. Meeting all requirements of the OWTS Permit as required and as well as if applicable on the permit.
- Installation of an OWTS by a homeowner, which requires a design by a registered Colorado Professional Engineer is prohibited.

8. This document is signed by the person who is requesting to complete the installation of the property OWTS. Signature must be notarized prior to being submitted.

By signing this document, I hereby acknowledge that I have read and understand the requirements in this document. I understand under penalty of perjury that the statements contained in this document are true to the best of my knowledge and belief.

Notary Public, Michele Parmeter, State of Colorado, Commission Expires October 17, 2028
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CALCULATIONS (New VAULT):

Proposed Horse Boarding Barn
Toilet and Sink (Infrequent Use, Non-Occupied Structure)

Up to 8 Visitors per Day (Transient Visitors per Table 6-2)
Up to 2 Employees per Day (Factories and Plants per Table 6-2)

$$Q = (8 \text{ People})(5 \text{ GPD}) + (2 \text{ Employees})(20 \text{ GPD})$$
$$Q = 80 \text{ GPD}$$

Safety Factor = 2

$$Q = 160 \text{ GPD}$$

(Actual Flow May be Highly Variable)

VAULT (HOLDING TANK):

Min. 500 Gallon Tank (per Regulation)
Holding Tank Size = Infiltrator CM-1060 Septic Tank
(Two-Compartment)

Set Alarm Float at Baffle from First to Second Compartment

NOTE TO OWNER:

A Vault (aka Holding Tank) is Not a Conventional "Septic System". Effluent Does NOT Leave the Tank via a Soil Treatment Area. Waste Must be Pumped from the Tank on a Regular Interval. A Licensed Pumpster is Required to Pump the Tank.

Per County Regulations the Minimum Sizing is 2 Days or 500 GPD. This Design Complies with this Criteria.

The Frequency of Pumping is Influenced by the Actual Usage and Can Not be Predicted. Owner is Responsible for Scheduling All Pumping.

PIPE NOTES:

Provide 2.0% Min. Grade on Pipe to Septic Tank. Provide 2.0% Min. Grade on Pipe to the Soil Treatment Area.

All Bends Limited to 45 Degree Ells or Long Sweep Quarter Bends. Areas Under Driveways Shall Be Protected as Per El Paso County Health Department Regulations.

Building Sewer Clean-Outs Shall Be Installed within 5 FT of the Structure and at Intervals Not to Exceed 100' in Straight Runs and When the Cumulative Change in Direction Exceeds 135 Degrees.

Colorado Geo-Solutions has Provided this Design in Accordance with the Standards of Practice Common to the Area. However, as with All Underground Absorption Fields, Guarantee from Failure is Impossible. Even with Proper Installation, as Outlined for this Proposed Construction, There Can Remain Many Uncertainties, and Difficulties Can Still Arise in the Operation of the System in the Future. Proper Design, Construction, and Maintenance can Assist in Minimizing Uncertainties, but Cannot Entirely Eliminate Them. Homeowners Should be Advised of Maintenance and Special Considerations for Septic Systems. Homeowners are Encouraged to visit epa.gov/septic/how-care-your-septic-system for Information Related to Maintenance, Water Conservation, and Septic Do's and Don'ts. Due to the Possibility of Unknown Water Usage Factors, Colorado Geo-Solutions Provides No Warranty of this Design or Installation Against Failure or Damage of Any Type. Therefore, the Limits of Liability Extend Only to the Fee Rendered for the Professional Services Provided.



VICINITY PLAN

GENERAL NOTES:
All Work per El Paso County Board of Health Regulations Chapter 8: On-Site Wastewater Treatment Systems (OWTS) Criteria.

All Setbacks Shall Conform to El Paso County Regulations (See Table 7-1 in the Regulations for Additional Information).
Contractor/Homeowner Must Verify All Setbacks and Obtain Utility Clearances Prior to Construction.

Contractor/Homeowner is Responsible for Permit.
Contractor/Homeowner Must Obtain Approval of Engineered OWTS from the El Paso County Health Department.

All Bends Limited to 45 Degree Ells or Long Sweep Quarter Bends.
Areas Under Driveways Shall Be Protected as Per El Paso County Health Department Regulations.

Building Sewer Clean-Outs Shall Be Installed within 50 FT of the Structure and at Intervals Not to Exceed 100 FT in Straight Runs, or at Intervals Not to Exceed 50 FT with Bends 45° or Greater.

TRAFFIC OVER TANK IS PROHIBITED.

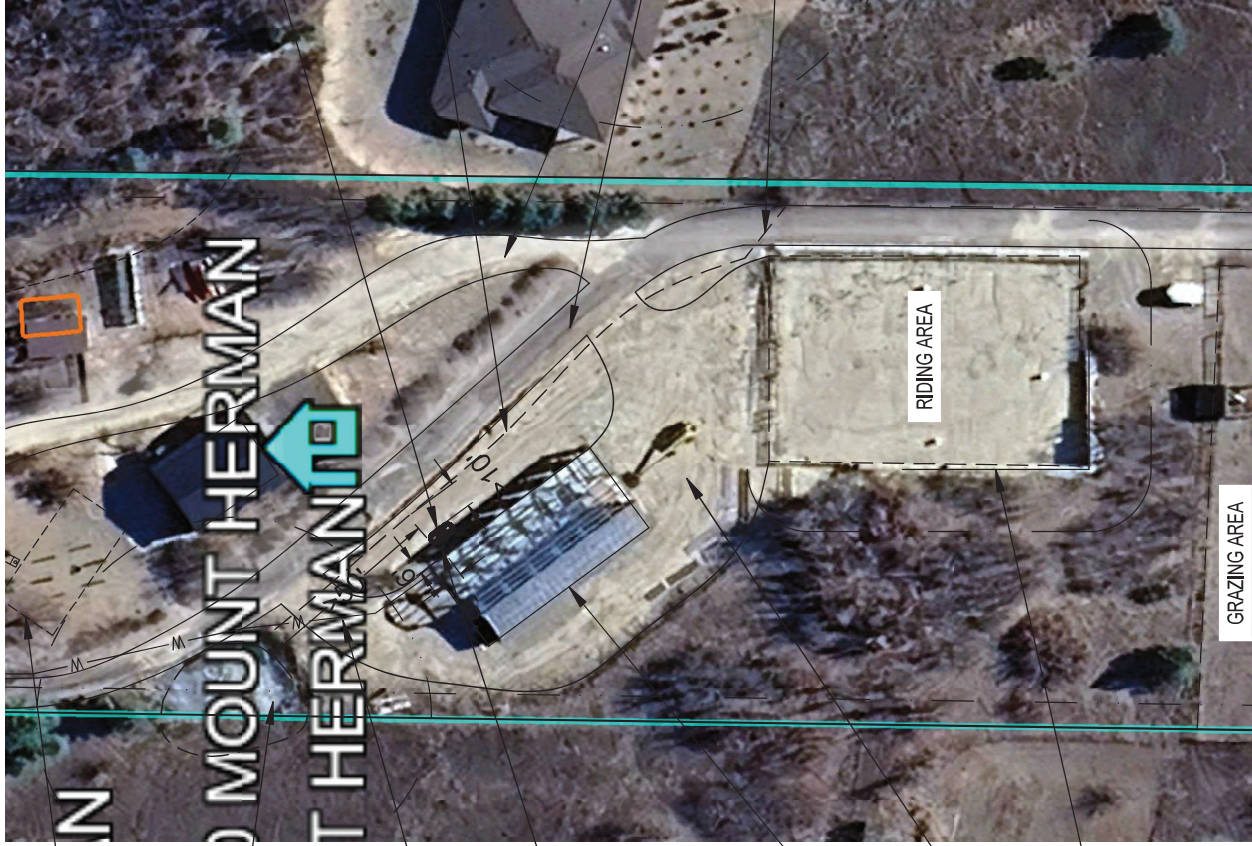
Refer to Sheet 2 and 3 for Additional Details and Information.



COLORADO GEO-SOLUTIONS
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719-481-4550
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Project: 26-0279	Project Address
Sheet: 1 of 3	Tiffany & Jonathan Perez
Date: 2 June 2026	2850 Mount Herman Road
Revised:	Tract 10, Panoramic Acres,
Drawn by: DJP	Sch. No. 7122001003
Checked by: DJP	El Paso County, Colorado



Existing OWTS for House
(Approximate Location Shown)

Drainage Catch Basin
(Min. 50 FT to Vault)

Proposed Water Line
(Min. 5 Ft from Sewer and
Min. 10 Ft from Vault)

4" Ø PVC Solid Pipe from House to Septic
Tank. Install a Cleanout at House. Maintain
Min. 2.0% Grade on Pipe to the Septic Tank.
Sch. 40 PVC Required within 5' of Inlet and
Outlet of Tanks. Exact Location of the
Discharge Line from the House per
Plumbing Design by Others.

Proposed Barn

New Driveway and Parking

Retaining Wall
(Min. 25 Ft to STA)

Infiltrator CM-1060 Vault (Holding Tank). Requires Regular
Pumping. Max. 48" Cover. Risers to Grade with Secure
Access Cover, Water Tight, Typ. All Septic Tank Access
Locations), Exact Locations to be Field Determined.

Drainage Ditch (Min.
10 Ft from Vault)

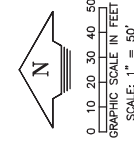
Existing Driveway

Culvert Under Driveway

RIDING AREA

GRAZING AREA

DETAILED SITE PLAN



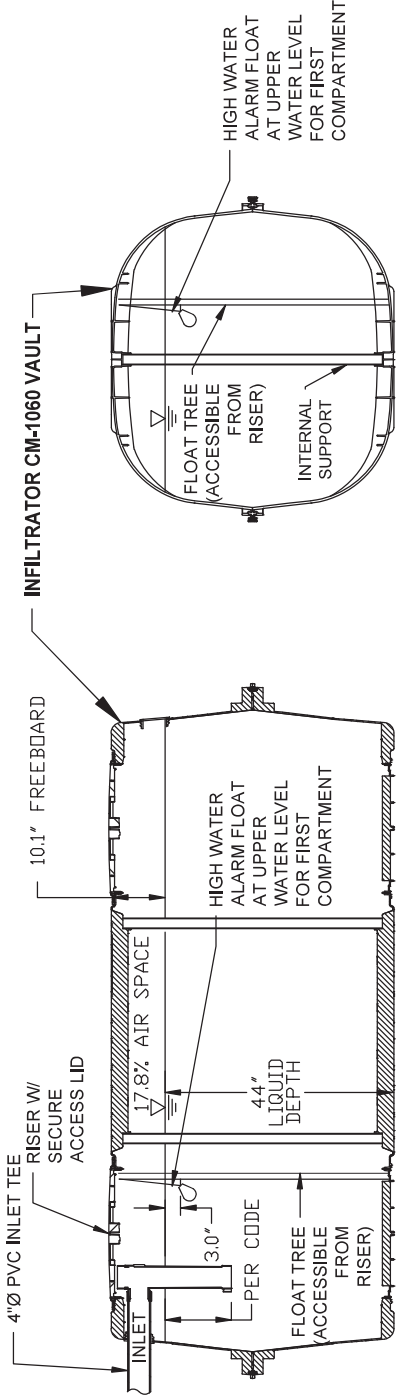
Project Address

Project: 26-0279	Tiffany & Jonathan Perez
Sheet: 2 of 3	2850 Mount Herman Road
Date: 2 June 2026	Tract 10, Panoramic Acres,
Revised:	Sch. No. 7122001003
Drawn by: DJP	El Paso County, Colorado
Checked by: DJP	

Electrical Code Requirements: All Electrical Work, Equipment, and Material Shall Comply with the Requirements of the Currently Applicable National Electrical Code as Designated by the State Electrical Board Rules and Regulations (3 CCR 710-1) on the Date of the Permit. The Electrical Installer Shall Contact the Electrical Inspector for the Location where the OWTS is Constructed. All Electrical Components Shall be Protected from Moisture and Corrosive Gases. Special Care Shall be Taken to Ensure the Electrical Requirements of Each Component Meet Manufacturer Specifications (i.e., Voltage and Amperage).

1. All Wire Splices Shall be Enclosed in the Splice Box/Alarm Panel. The Splice Box Shall be Placed in an Accessible Location Positioned Outside of the Tank Riser.
2. All Wires Shall be Spliced with Corrosion-Resistant, Watertight Connectors. **NO WIRE SPLICES ARE ALLOWED WITHIN THE VAULT OR RISER.**
3. Conduits Shall be Sealed to Prevent Gases from Entering the Electrical panel.
4. Alarm Shall be on a Dedicated Circuit.
5. The Branch Circuit Wire from the Building to the Control Panel Shall be a Minimum of 24" Below the Ground Surface. Lines Buried Less than 24" are Allowed, but Will be Required to be in Conduit or have Ground Fault Protection on the Circuit. Conduit from the Control Panel to the House is Strongly Recommended for All Wiring.
6. Conduit Risers for Physical Protection Must Extend Min. 18" Below Finish Grade.

Max. 4' Bury Depth



SECTION A - A'

TANK EXTERIOR	
LENGTH	134.2"
WIDTH	61.7"
HEIGHT	54.5"

LIQUID DEPTH	44.0"
INVERT DROP	3.0"
FREEBOARD	10.1"

TOTAL CAPACITY	1,309 GAL
WORKING VOLUME	1,111 GAL

Alarm Note:
Audible Alarm Required. Install High Water Alarm Float at the Baffle Between 1st and 2nd Compartment. Required to be Installed at 75% of Total Tank Capacity.

Vault (Holding Tank) Cross-Section

Not to Scale



Project Address	
Project: 26-0280	Tiffany & Jonathan Perez
Sheet: 3 of 3	2850 Mount Herman Road
Date: 2 June 2026	Tract 10, Panoramic Acres,
Revised:	Sch. No. 7122001003
Drawn by: DJP	El Paso County, Colorado
Checked by: DJP	

