

Prevent • Promote • Protect

Environmental Health Division

1675 W. Garden of the Gods Rd., Suite 2044  
Colorado Springs, CO 80907  
(719) 578-3199 phone  
(719) 575-8664 fax  
www.elpasocountyhealth.org

**CONVENTIONAL ON-SITE WASTEWATER TREATMENT SYSTEM  
FINAL INSPECTION FORM**

**P**

On-site ID: ON002534116

Tax schedule(APN) #: 6109002028

Permit Type: Major repair

Environmental Health Specialist: Kat McGarvy

Final Inspection Date: 11.25.2019

Approved: Yes

**Residential Property Information:**

Owner: Shayne Gordon N

Address: 19052 Malmsbury Ct, Monument CO 80132

Approved No. Bedrooms: 5

Water supply: Well

Well Installation verified: 11.25.2019

Well Location GPS: NOT FOUND WITHIN 100' OF STA

*Approval will be revoked if in the future any well is found to be within 50 feet of the septic tank and/or 100 feet of the soil treatment area.*

**Minimum System Requirements:**

Soil (in-situ) Type: 3 LTAR (In-situ soil): 0.35

Limiting Layer: Groundwater: none

Bedrock: none

OWTS Tank: Capacity (gallons): 1500

OWTS Pump Tank: Capacity (gallons): 500

Soil Treatment Area (STA): Sq. Ft. (10-1): 1714.28

Sq. Ft. (10-2): 2057.13

Sq. Ft. (10-3): NA

Sq. Ft. (with Diverter Valve): 1029

**Final system installation:**

Licensed Installer: Tier II

Installer: J & K Excavating

Treatment Level: 1

OWTS Tank: GPS Location: not taken

Tank Type: Existing Concrete

Capacity (gallon): 2250

OWTS Pump Tank:

Tank Type: New concrete - single comp

Capacity (gallon): 500

Audio/Visual Alarm: Yes

OWTS Pump: Zoller N98

Soil Treatment Area (STA): GPS Location: 39 06.542' N, 104 47.262' W

Total Sq. Ft installed: 1082

Configuration: Wide Bed

Distribution: Pump to Gravity(dosed)

Distribution Media: Chambers

Infiltrative Surface Depth: 36"

Distribution Area Length: 60'

Distribution Area Width: 18'

Media Type: Arc 36 LP (15 sq/ft)

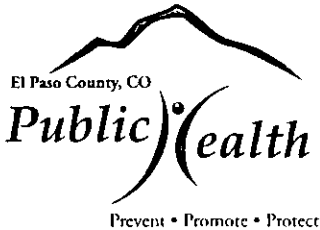
Total installed: 72 Chambers

Notes: Diverter Valve with new pump to gravity in wide bed configuration due to existing system failure. Unable to accurately document footer of house due to landscaping between house and system.



Attn: SHAYNE GORDON N  
19052 MALMSBURY CT  
MONUMENT, CO 80132-8616

Notify Environmental Health of any change of ownership, type of business activity, business name, or billing address by calling (719) 578-3199. Failure to notify Environmental Health may result in late penalties, Permit/License denial or revocation, and business closure. PERMITS/LICENSES TO OPERATE AND ANNUAL FEE PAYMENTS ARE NOT TRANSFERABLE. Permits become void on change of ownership. New owners must apply and pay for a new Permit(s)/License(s) prior to beginning operation.



**EL PASO COUNTY PUBLIC HEALTH  
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## MAJOR REPAIR PERMIT - OWTS

Valid From 11/20/2019 To 11/20/2020

PERMITEE :

SHAYNE GORDON N  
19052 MALMSBURY CT  
MONUMENT, CO 80132-8616

OWNER NAME :

SHAYNE GORDON N

Onsite ID: ON0025346

Tax Schedule # : 6109002028

Permit Issue Date: 11/20/2019

Dwelling Type: RESIDENTIAL

# of Bedrooms (if Res): 5

Proposed Use (if Comm):

Designed Gallons/Day:

Water Source: PRIVATE WELL

### System Installation Requirements:

- The issuance of this permit supersedes the original permit which was issued on 11.8.2019
- Permit is reissued based on addition of a pump tank.
- A Conventional non-engineered OWTS system to be installed on site, requiring a minimum of Tier I licensed installer to be named prior to final approval.
- System installation includes pump-to-gravity fed with diverter valve to d-box to chamber in wide bed(space constrictions). Minimum tank requirements 1500 gallon and 1029 sq ft of soil treatment area (86 Q4 / 69 Arc 36 chambers required).
- The system must be installed per approved JDM Consulting non-engineered design document #19-001 signed and dated 11.13.2019, changes to the approved design document must be submitted and approved by Public Health prior to installation.
- All horizontal setbacks must be maintained through system installation. In addition, system must remain completely uncovered, including the tank size, for final inspection.
- The well must be installed at time of final inspection, or final approval will not be given until well installation is verified.
- Ensure that all work is completed prior to contacting and requesting final line for inspection, otherwise additional fees may be incurred.

Attn: SHAYNE GORDON N  
19052 MALMSBURY CT  
MONUMENT, CO 80132-8616

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This permit is issued in accordance with 25-10-106 Colorado Revised Statutes. The PERMIT EXPIRES upon completion/installation of the Onsite Wastewater Treatment System, or at the end of twelve (12) months from date of issue, whichever occurs first. If both a Building Permit and an Onsite Wastewater Treatment System Permit are issued for the same property and construction has not commenced prior to the expiration date of the Building Permit, the Onsite Wastewater Permit shall expire at the same time as the Building Permit. This permit is revocable if all stated requirements are not met. The Onsite Wastewater Treatment System must be installed by an El Paso County Licensed System Contractor, or the property owner.

The Health Officer shall assume no responsibility in case of failure or inadequacy of an Onsite Wastewater Treatment System, beyond consulting in good faith with the property owner or representative. Access to the property shall be authorized at reasonable time for the purpose of making such inspections as are necessary to determine compliance with the requirements of this law (permit).

**Inspection request line: Call (719) 575-8699 before 3:30 p.m. the business day prior to the requested inspection date.**

\_\_\_\_\_  
Authorized By: Environmental Health Specialist

El Paso County, CO

**Public Health**

Prevent • Promote • Protect

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 Colorado Springs, CO 80907  
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SR0013520 AR0016880 ON0025346

**APPLICATION FOR AN ON-SITE WASTEWATER TREATMENT SYSTEM PERMIT****Property Information:**Property Address: 19052 Malmsbury Ct City and Zip: Monument, Co. 80132Legal Description: Lot 61 Kings DeerTax Schedule #: 6109002028 Lot size: 2.74Is the property gated: ☐ Yes ☒ No Please provide a gate code if necessary: \_\_\_\_\_Site Located Inside City Limits: ☐ Yes ☒ No Proposed Use: ☒ Residential ☐ CommercialWater Supply: ☒ Well ☐ Cistern ☐ Municipal Potential Number of Bedrooms: 5Has a Conditional Acceptance Document been issued for this property: ☐ Yes ☒ No ☐ Unsure**Owner Information:** ☒ Primary ContactOwner: Sherry & Gordon Shaye Daytime Phone: 719-238-1876Owners Mailing Address: 19052 Malmsbury Ct Monument Co 80132Email Address: Sherry@shaynelaw.com Fax #: 719-442-0882General Contractor: J&K Ex. Phone/Email: \_\_\_\_\_**OWTS Installer Information:** ☐ Primary ContactSystem Installer: J&K Excavation Daytime Phone: \_\_\_\_\_Email Address: \_\_\_\_\_ Licensed installer: ☐ Tier 1 ☐ Tier 2All engineer-design systems must be installed by a Tier 2 licensed installer**CURRENT FEES AS APPROVED BY THE EI PASO COUNTY BOARD OF HEALTH**

All Payments are due at the time of application submittal; by cash, check or major credit card (Visa / MC)

☐ **New Permit:** \$750.00 (EPCPH Charge) + \$147.00 (EPC Planning Dept. Surcharge) + \$23.00 (CDPHE Surcharge) = **\$920.00**☐ **Modification Permit:** \$675.00 (EPCPH Charge) + \$23.00 (CDPHE Surcharge) = **\$698.00**☒ **Major Repair Permit:** \$535.00 (EPCPH Charge) + \$23.00 (CDPHE Surcharge) = **\$558.00**☐ **Minor Repair Permit:** \$245.00 (EPCPH Charge) + \$23.00 (CDPHE Surcharge) = **\$268.00**

Permits expire one year from date of issuance, unless otherwise noted

**REQUIRED: Provide a complete written scope of work to be performed on the property.**Installing new leach f**The following documents MUST be included with your application.**

- A soils report: including at least 1 soil profile excavation pit, in accordance with section 8.5 A-F of OWTS regulations
- A clear and legible design document: including the proposed and alternate locations, as well as system layout, labeled with all setbacks to pertinent structures and features in table 7-1.
- Provide directions to property, from a main highway, on the backside of application.

**Failure to provide the above listed documents may result in denial of the permit application**

I certify that the information provided on this application is in compliance with Section 8.3, Chapter 8 of the Onsite Wastewater System (OWS) Regulations of the El Paso County Board of Health. 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.

Applicants Signature: [Signature]Date: 11-6-19

- 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
- Please provide directions to the property from a main highway, by text or picture, below.

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Failure to comply with the above information may result in an additional charge for a return trip.

Permit #: \_\_\_\_\_ Site Inspection date: 11/7/19

Date Approvals Rcvd: Development Services: NA Floodplain/enumerations: NA

Design: ☒ Conventional ☐ Engineer Design Engineer: ADN consulting

Engineer Job #: A-001 Engineer Date Stamped: 11/7/19

LTAR/Soil Type: 3 / 0.35 Groundwater: none PP1/none PP2 Bedrock: none PP1/none PP2

Minimum Requirements: Tank Capacity: 1500 Soil Treatment Area: \_\_\_\_\_

System Feed: ☒ Gravity ☐ Pump to Gravity ☐ Pressure Dosed ☐ Other: Diverter Valve

System Media: ☒ Chambers ☐ Rock and Pipe ☐ Other Soil Treatment Area: ☐ Trenches ☒ Bed (wide)

Pump specs: Tank capacity: NA gal Gal/dose: NA Flow: NA gpm Total Dynamic Head: NA

Additional Comments:  $400 / 0.35 = 1714.28$  ( $0.5$ ) =  $257.13$  ( $0.5$ ) =  $1009$  (sl. 04/19 Arc3)

2050 existing tank - wide bed limited space.

E.H. Specialist: \_\_\_\_\_ Date: 11/7/19 ☒ Approved ☐ Denied

Alteration: addition of pump tank all other stays the same

150 gallon 20gpm 20' TDM



# PARR ENGINEERING & CONSULTING, INC.

11590 Black Forest Road, Suite 10  
Colorado Springs, Colorado 80908  
Office: 719-494-0404

Structural Engineering & Consulting  
Geotechnical Engineering  
On-Site Wastewater Treatment Design  
Inspections & Technical Reports

## PROFILE PIT EVALUATION

**Date:** October 22, 2019

**Job:**

JN: 19.360

**Site**

**Location:** 19052 Malmsbury Court,  
Monument, CO 80132

ON0025346  
APN 6109002625  
11.25.19



**Purpose of**

**Investigation:**

To determine general subsurface soil conditions at the site location & to formulate design criteria for the proposed On-Site Wastewater Treatment system (OWTS)

**Field**

**Procedure:**

The materials in the various strata of the soil profile pit were visually classified in accordance with the U.S. Department of Agriculture (USDA) standards.

Profile Pit	Yes
Perc Test	-

**Date: (Profile Eval)** October 16, 2019

**Excavator** Contractor

**Evaluator** S. Dunfee

**Depth to Groundwater (permanent or seasonal) Pit #1:**

Not Reached

**Depth to Groundwater (permanent or seasonal) Pit #2:**

Not Reached

**Depth to Bedrock - Pit #1:**

Not Reached

**Depth to Bedrock - Pit #2:**

Not Reached

**Other Terrain Features or Soil Conditions:** See Attached Site Map

**Endorsement:** Daniel J. Mizicko P.E.

<b>Profile Pit 1</b>	
<b>Latitude:</b>	39° 6' 32.53" N
<b>Longitude:</b>	104° 47' 15.50" W
<b>Layer</b>	<b>Soil Type &amp; LTAR</b>
0 - 0'-6"	Topsoil
0'-6" - 6'-0"	Type 3 (LTAR = 0.35)
6'-0" - 8'-0"	Type 2 (LTAR = 0.60)
-	-

<b>Profile Pit 2</b>	
<b>Latitude:</b>	39° 6' 32.06" N
<b>Longitude:</b>	104° 47' 15.94" W
<b>Layer</b>	<b>Soil Type &amp; LTAR</b>
0 - 0'-6"	Topsoil
0'-6" - 2'-6"	Type 3 (LTAR = 0.35)
2'-6" - 8'-0"	Type 2 (LTAR = 0.60)
-	-

<b>Location</b>	
<b>Latitude:</b>	<b>Longitude:</b>

Perc #1	N/A	Min./In.
Perc #2	N/A	Min./In.
Perc #3	N/A	Min./In.
Average:		N/A Min./In.

**Recommendations:** (1) A conventional, non-engineered On-Site Wastewater Treatment system (OWTS) is acceptable for this site.

11/7/19

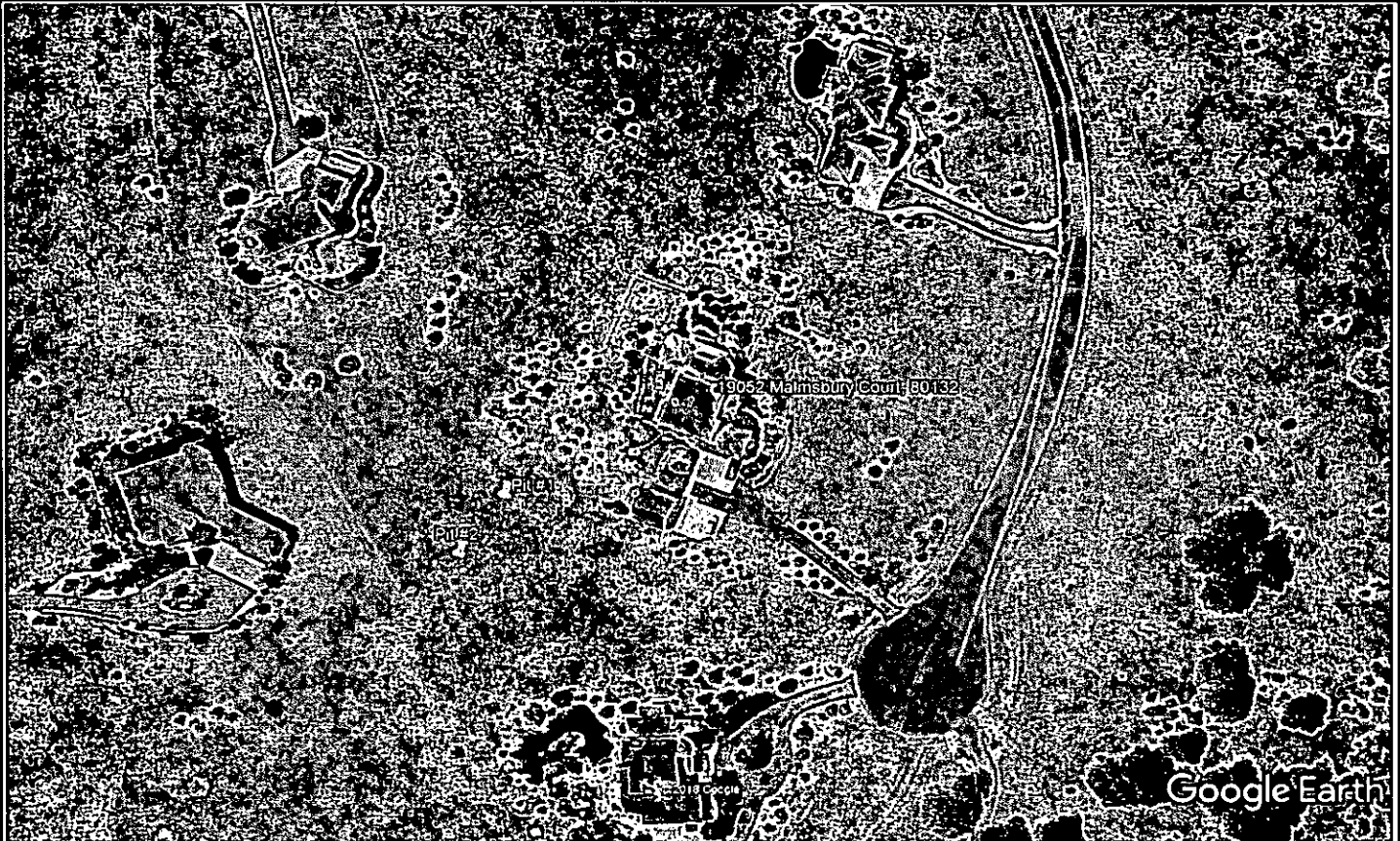


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## Google Site Map







Parr Engineering & Consulting, Inc.  
11590 Black Forest Road, Suite 10  
Colorado Springs, Colorado 80908  
Phone: 719-494-0404

### Profile Pit Log

Job Number: 19.360  
Date Evaluated: 10/16/19  
Profile Pit#: Pit #1

Excavator: Contractor Total Depth: 8'-0"  
Logged By: S. Dunfee STA Slope & Direction: N 35° W @ 3%  
Method: Profile Pit Latitude: 39° 6' 32.53" N  
Equipment: Backhoe Longitude: 104° 47' 15.50" W

Depth (ft.)	Sample Interval	19052 Malmsbury Court, 80132						
		USDA Soil Texture	USDA Soil Structure - Shape	Soil Structure Grade	Redoximorphic Features Present? (Y/N)	Soil Type (from Table 9 in O-14)	% Rock Frag.	Color
		Topsoil						
		Sandy Clay Loam	Granular	Strong	No	Type 3 (LTAR = 0.35) Treatment Level 1	<35%	10YR 5/4 (MOIST)
2								
4								
		Sandy Loam	Granular	Moderate	No	Type 2 (LTAR = 0.60) Treatment Level 1	<35%	10YR 5/3 (MOIST)
6								
8								
		Total Depth= 8'-0"						
10								

Evidence of Groundwater: Not Reached

Depth to Bedrock: Not Reached

Additional Notes:

11/7/19



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**Profile Pit Log**

Job Number:	19.360
Date Evaluated:	10/16/19
Profile Pit#:	Pit #2

Excavator:	Contractor	Total Depth:	8'-0"
Logged By:	S. Dunfee	STA Slope & Direction:	N 35° W @ 3%
Method:	Profile Pit	Latitude:	39° 6'32.06" N
Equipment:	Backhoe	Longitude:	104°47'15.94" W

Depth (ft.)	Sample Interval	19052 Malmsbury Court, 80132						
		USDA Soil Texture	USDA Soil Structure - Shape	Soil Structure Grade	Redoximorphic Features Present? (Y/N)	Soil Type (from Table 9 in O-14)	% Rock Frag.	Color
		Topsoil						
2		Sandy Clay Loam	Granular	Moderate	No	Type 3 (LTAR = 0.35) Treatment Level 1	<35%	10YR 5/4 (MOIST)
4		Sandy Loam	Granular	Moderate	No	Type 2 (LTAR = 0.60) Treatment Level 1	<35%	10YR 5/3 (MOIST)
6								
8								
		Total Depth = 8'-0"						
10								

Evidence of Groundwater: Not Reached

Depth to Bedrock: Not Reached

Additional Notes:

*Handwritten signature and date 11/1/19*



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## PROFILE PIT EVALUATION REPORT - General Notes, Regulations & Limitations

### General Notes:

This report presents the data obtained pertaining to a Profile Pit Evaluation conducted at the locations indicated on the included Site Map. The purpose of this investigation was to evaluate subsurface soil-profile(s) in the area of the proposed Soil Treatment Area (STA) and to establish design criteria for an On-Site Wastewater Treatment system (OWTS).

### Board of Health Regulations & Regulation No. 43 - Engineered Systems:

At proposed soil treatment area locations where any of the following conditions are present, the system shall be designed by a professional engineer and approved by the Health Department:

1. For soil types 3A, 4, 4A, 5, R-0, R-1 and R-2, and Treatment Levels TL2, TL2N, TL3, and TL3N as specified in Tables 10-1 and 10-1A of this regulation;
2. The maximum seasonal ground water surface is less than four feet below the bottom of the proposed absorption system.
3. A restrictive layer exists less than four feet below the bottom of the proposed absorption system
4. The ground slope is in excess of thirty percent
5. Pressure distribution is used.

### Limitations:

The data presented in this report is specific to the locations of the Profile Pit locations evaluated. It must be understood and accepted that subsurface conditions can, and often do vary across any given area. These variations may not become evident until the time of system installation. If the subsurface conditions are discovered to vary anywhere across the system footprint, Parr Engineering AND the Design Engineer must be notified immediately for further evaluation. If another individual or party relies on this report, they shall indemnify and hold Parr Engineering & Consulting, Inc. harmless for any damages, losses, or expenses that may incur as a result of its use, except as allowed by law.



SR0013780  
AR0016880  
ON0025346  
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## Conventional (Non-Engineered) On-site Wastewater Treatment System (OWTS) Design Worksheet – Short Form

Property Address: 19052 Malmsbury Court City and Zip: Colorado Springs, 80132

Number of bedrooms: 5 Wastewater Design Flow (Table 6-1) 600 Gallons

Work will be done by: ☐ Owner ☒ Licensed Installer \_\_\_\_\_

Note: - Homeowner installation requires the individual installing the system be the listed as the individual on the permit.

### Water source:

☒ Well ☐ Municipal ☐ Cistern

Note: - Wells must be located 50' from septic tank and 100' from STA.  
- The well must be installed and verified before final signoff will occur.  
- An additional trip fee will be charged if EPCPH must return to verify the well location.

### Soil Report:

Note: Report **MUST** stamped by Professional Engineer

Soil Type: Soil Type 3 LTAR: 0.35

Note: - Most limiting layer found within wither profile pit must be used

Was a limiting layer of Bedrock or Groundwater found within 8 feet? ☐ Yes ☒ No

Groundwater found at N/A inches. Bedrock found at N/A inches.

### Septic Tank Requirements:

Septic Tank Material: ☒ Concrete ☐ Plastic (Existing Tank)

Tank Size (Table 9-1): 1500 Pump Tank size (if applicable): N/A  
(2250 Existing)

### Clean outs

Distance from structure to clean out: Existing Conditions (no further than 5' from structure)

Note: - There must also be a cleanout at least every 100' from structure to the septic tank

*PH*  
*11/19/19*

**PAID**

Updated 10.2019

*Kat*

### Proposed Soil Treatment Area (STA):

What is the installation depth range for the STA? 18-48 inches.

Depth of limiting layer: N/A inches.

Must maintain appropriate separation

Application of wastewater:	<input type="checkbox"/> Gravity	<input checked="" type="checkbox"/> Pump-to-gravity
Distribution Layout:	<input type="checkbox"/> Trench(s)	<input checked="" type="checkbox"/> Bed
Distribution Media:	<input checked="" type="checkbox"/> Chambers	<input type="checkbox"/> Rock and Pipe
Distribution Type:	<input checked="" type="checkbox"/> Distribution box	<input type="checkbox"/> Serial distribution
Diverter Valve:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Inspection Ports:	<input type="checkbox"/> Beginning & End of trenches	<input checked="" type="checkbox"/> 4 corners of each bed

### Calculate the size of the STA:

Design Flow: 600 GPD,

LTAR: 0.35

Reductions: Table 10-2: 12 NL

Table 10-3: N/A

(Use 0.5 Reduction for Diverter Valve)

Show calculations here:

Sample calculation: 3-bedroom home: 450gpd, LTAR 0.8, gravity fed (1.0) chambers in trenches (0.7)

system:  $450 / 0.8 = 562.5 \text{ Sq Ft} * 1.0 = 562.5 \text{ Sq ft} * 0.7 = 394 \text{ (393.75 rounds up to 394) Sq-ft}$

$600 / 0.35 = 1715 \text{ sq.ft.} * (1.2) * (0.5) = 1029 \text{ sq.ft.} / (15 \text{ sq.ft. per chamber}) = 69 \text{ chambers}$

Use 72 chambers, 6 even rows of 12 chambers each

Wide bed used due to repair (alternate STA) and limited space onsite

Due to constraints onsite, pump to gravity will be required

### For Chamber systems:

Chamber Type: ☐ Quick4 (12 ft<sup>2</sup>) ☒ Arc36 (15 ft<sup>2</sup>)  
Number of rows: 6 Chambers per row: 12 Total ft<sup>2</sup>: 1080

### For Rock and Pipe Systems:

Depth of Rock (under pipe): \_\_\_\_\_ Depth of Rock (over pipe): \_\_\_\_\_  
Width of each trench/bed: \_\_\_\_\_ Total Pipe Length: \_\_\_\_\_  
Total ft<sup>2</sup>: \_\_\_\_\_ Type of Cover on Rock: \_\_\_\_\_

### Design Document

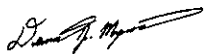
A legible drawing *shall* be provided with each permit application (see attached example design documents):

- Must be minimum 8.5"x11" and show then entire property boundary
- Reference locations including street names, building structures, and any other permanent physical features.
- Layout of the entire OWTS and all components from structure to soil treatment area

- To include dimensions of trenches or beds, distribution method and equipment (including distribution boxes, drop boxes, valves, or other components used.)
- A legible drawing showing location of each OWTS component and distances to all applicable physical features, on both the subject and adjacent properties requiring setbacks (Table 7-1).
- Elevation or depth of infiltrative surface of the soil treatment area, the septic tank invert, and all other components of the OWTS.
- Location of the soil profile test pit excavations. (Must also be clearly marked on site).
- Location of the alternate STA site.
- North direction arrow.
- Contours, OR slope direction and % slope.
- Location of proposed well or existing well.

*Note: It is recommended that the design document is completed by a professional in the OWTS industry. EPCPH does not complete or alter design documents. Contact EPCPH with any questions.*

**Certification:**

  
 \_\_\_\_\_  
 Signature  
 Daniel J. Mizicko  
 \_\_\_\_\_  
 Print Name  
 11/13/19  
 \_\_\_\_\_  
 Date  
 19052 Malmsbury Court, 80132  
 \_\_\_\_\_  
 Property Address

JDM Consulting, LLC  
 \_\_\_\_\_  
 Company Name  
 3345 Lynnwood Way, 80918  
 \_\_\_\_\_  
 Address  
 719-251-5291  
 \_\_\_\_\_  
 Phone  
 dmizicko@gmail.com  
 \_\_\_\_\_  
 Email





**JDMCONSULTING, LLC**

Septic Design - Conventional

19052 Malmsbury Court, 80132

Drawing Scale 1/64" = 1'-0"

Drawn By: D.MIZICKO

Checked By: D.MIZICKO

Date: RE-11/13/2019

Job Number: 19-001

CONTROL PANEL AND ALARM PER PLAN  
(LOCATED ON RISER OR POST WITHIN  
LINE OF SIGHT OF PUMP CHAMBER

PRECAST 500 MIN. GAL. PUMP  
CHAMBER PER HEALTH DEPT.  
REGULATIONS (60" I.D. TYP.)

4" SCH 40 INLET  
PIPE FROM  
SEPTIC TANK

INLET TEE OR  
BAFFLE

20" MIN. DOSE  
PER PLAN

HIGH WATER  
ALARM

PUMP ON

PUMP OFF

QUICK DISCONNECT  
COUPLER

WATERTIGHT RISER  
WITH LID TO (EXTEND  
MIN. 3" ABOVE GRADE)

WATER PROOFING AT  
ALL TANK PENETRATIONS

SCH 40 OUTLET PIPE,  
DIA. PER PLAN

FLOAT TREE (FLOATS  
MAY NOT BE LOCATED  
ON DISCHARGE PIPE)

PUMP PER PLAN  
ON CONCRETE  
BLOCK (4" TYP.)

## PUMP CHAMBER DETAIL

SHEET 2 OF 2

**JDMCONSULTING, LLC**

Drawing Scale 1/2" = 1'-0"

Septic Design - Conventional

19052 Malmsbury Court, 80132

Drawn By: D.MIZICKO

Checked By: D.MIZICKO

Date: RE-11/13/2019

Job Number: 19-001