



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

P

Permit Type: New
Approved: Yes

Owner: Robert Alvarez Address: 6870 Beulah St, Colorado Springs CO 80908 Approved No. Bedrooms: 2
Water supply: Well Well Installation verified: 10.10.2018 Well Location GPS: 39°01.404'N -104°41.932'W
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.

High Rock Content: N/A Soil (in-situ) Type: 3A LTAR (In-situ soil): 0.3 Limiting Layer: Groundwater: NONE Bedrock: NONE

OWTS Tank: Capacity (gallons): 1000 OWTS Pump Tank: Capacity (gallons): N/A

Soil Treatment Area (STA): Sq. Ft. (10-1): 1000 Sq. Ft. (10-2): 1000 Sq. Ft. (10-3): 1000 Sq. Ft. (with Diverter Valve): N/A

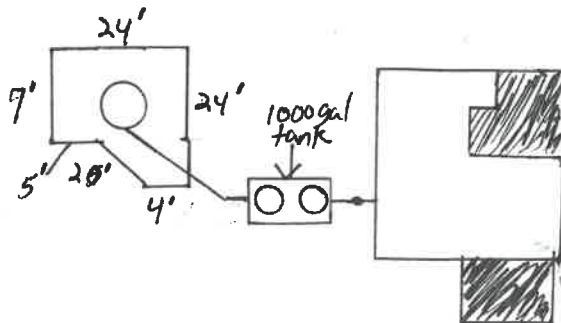
NDDS (STA): Sq. Ft. (10-1): N/A NDDS Factor: N/A Sq. Ft. (NDDS adjustment): N/A

Mound (STA): LTAR (imported soil): N/A Chamber adjustment: N/A Distribution Area: N/A Basal Area: N/A

Tier II Licensed Installer: Huddleson Excavating

Total installed: 5 rings

Blk Forest Rd



welt


Beulah

Attn: ROBERT ALVAREZ
6870 BEULAH ST
COLORADO SPRINGS, CO 80908

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
ENVIRONMENTAL HEALTH DIVISION**
1675 W. GARDEN OF THE GODS ROAD, SUITE 2044
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NEW SYSTEM PERMIT - OWTS

Valid From 9/26/2018 To 9/26/2019

PERMITEE :

**ROBERT ALVAREZ
6870 BEULAH ST
COLORADO SPRINGS, CO 80908**

Onsite ID: ON0049485

Tax Schedule # : 5208244004

Permit Issue Date: 09/26/2018

Dwelling Type: RESIDENTIAL

OWNER NAME :

ROBERT ALVAREZ

of Bedrooms (if Res): 3

Proposed Use (if Comm):

Designed Gallons/Day:

Water Source: PRIVATE WELL

System Installation Requirements:

- An Engineered OWTS system to be installed on site due to encountering soil type 3A, requiring a Tier II licensed installer.
- TIER II LICENSED INSTALLER MUST BE NAMED AND VERIFIED PRIOR TO FINAL APPROVAL OF SYSTEM.
- System installation to include seepage pit 14'x14' Minimum tank requirements 1000 gallon and 1000 sq ft of soil treatment area (5 rings).
- The system must be installed per approved Parr Engineering design document #18.206 stamped and dated 09.20.2018, changes to the approved design document must be submitted and approved by both the engineer and 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. Must maintain 100' set back to all wells on property or neighboring property.
- Engineered systems require the as built drawing and certification letter from the engineer be submitted to Public Health prior to final approval and Regional Building sign off
- Ensure that all work is completed prior to contacting and requesting final line for inspection, otherwise additional fees may be incurred.

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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



Prevent • Promote • Protect

Environmental Health Division

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SP0008445 AR0012659 ON0049485

APPLICATION FOR AN ON-SITE WASTEWATER TREATMENT SYSTEM PERMIT

Property Information:

Property Address: 6870 Beulah ST City and Zip: Colorado Springs 80908
Legal Description: Lot 243 BLK 42 Brentwood Country Club + Cabin Sites TR 1
Tax Schedule #: 5208244004 Lot size: .45 acres
Is the property gated: ☐ Yes ☒ No Please provide a gate code if necessary: _____
Site Located Inside City Limits: ☐ Yes ☒ No Proposed Use: ☒ Residential ☐ Commercial
Water Supply: ☒ Well ☐ Cistern ☐ Municipal Potential Number of Bedrooms: 3
Has a Conditional Acceptance Document been issued for this property: ☐ Yes ☐ No ☒ Unsure

Owner Information:

☒ Primary Contact
Owner: Robert Alvarez Daytime Phone: 719 243 0341
Owners Mailing Address: 218 Security Blvd CS, CO 80911
Email Address: Robert.B.Alvarez@gmail.com Fax #: _____
General Contractor: Homedewer Phone/Email: _____

OWTS Installer Information:

☐ Primary Contact
System Installer: _____ Daytime Phone: _____
Email Address: _____ Licensed installer: ☐ Tier 1 ☐ Tier 2

All engineer-design system must be installed by a Tier 2 licensed installer

CURRENT FEES AS APPROVED BY THE EL 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:** \$685.00 (EPCPH Charge) + \$147.00 (EPC Planning Dept. Surcharge) + \$23.00 (CDPHE Surcharge) = \$855.00
☐ **Major Repair Permit:** \$525.00 (EPCPH Charge) + \$23.00 (CDPHE Surcharge) = \$548.00
☐ **Minor Repair Permit:** \$240.00 (EPCPH Charge) + \$23.00 (CDPHE Surcharge) = \$263.00

Permits expire one year from date of issuance

Provide a complete written scope of work to be performed on the property.

Install septic system per code & design

Please include the following documents 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 back side 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: _____ Date: _____

Reviewed 2016 approved fee (12/30/2015)

Kat

- 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.

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

Revision 9/20/18

49

Permit #: ON0049485 Site Inspection date: 9/26/18

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

Design: ☐ Conventional ☒ Engineer Design Engineer: Parr Engineering

Engineer Job #: 18.204 Engineer Date Stamped: 9.20.18

LTAR/Soil Type: 0.3 / 3A Groundwater: none PPI/ none PP2 Bedrock: none PPI/ none PP2

Minimum Requirements: Tank Capacity: 1000 Soil Treatment Area: 1036

System Feed: ☐ Gravity ☐ Pump to Gravity ☐ Pressure Dosed ☒ Other: See page Pit

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

Additional Comments: 300/0.3 = 1000 (no reductions)
14' x 14' excavation 14 x 15 = 210 x 4 = 840 + (14 x 14) = 1036
3 rings

E.H. Specialist: [Signature] Date: 9/24/18 ☒ Approved ☐ Denied



PARR ENGINEERING & CONSULTING, INC.

Christopher L. Parr, P.E. Principal
11590 Black Forest Road, Suite 10, Colorado Springs, CO 80908
Office: 719-494-0404 Cell: 719-659-1313

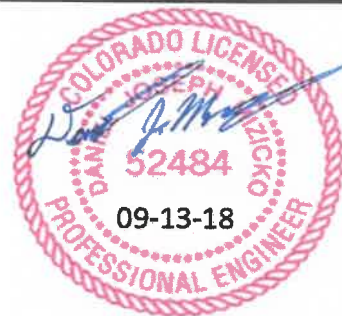
STA SOIL EVALUATION

Date: September 13, 2018 **Job:** JN: 18.206

Site Location: 6870 Beulah Street,
Colorado Springs, CO 80908

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.



[Handwritten signature]

Profile Pit	Yes
Perc Test	-

Date: (Profile Eval) September 4, 2018
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.

Profile Pit 1	
Latitude:	39° 1'24.21"N
Longitude:	104°41'57.79"W
Layer	Soil Type & LTAR
0 - 0'-6"	Topsoil
0'-6" - 3'-0"	Type 2 (LTAR=0.60)
3'-0" - 6'-6"	Type 3A (LTAR=0.30)
6'-6" - 8'-0"	Type 3A (LTAR=0.30)

Profile Pit 2	
Latitude:	-
Longitude:	-
Layer	Soil Type & LTAR
-	-
-	-
-	-
-	-

Location	
Latitude:	Longitude:
-	-
-	-
-	-

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) An Engineered On-Site Wastewater Treatment system (OWTS) is required for this location due to: Soil Type 3A identified in the treatment zone of Profile Pit #1.

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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: 18.206
Date Evaluated: 09/04/18
Profile Pit#: Pit #1

Excavator: Contractor
Logged By: S.Dunfee
Method: Profile Pit
Equipment: Excavator
Total Depth: 8'-0"
STA Slope & Direction: S 40° W @ 3%
Latitude: 39° 1'24.21"N
Longitude: 104°41'57.79"W

Depth (ft.)	Sample Interval	6870 Beulah Street, 80908						
		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 Loam	Granular	Moderate	No	Type 2 (LTAR = 0.60) Treatment Level 1	<35%	7.5YR 4/2 (Moist)
4		Sandy Clay Loam	Granular	Massive	No	Type 3A (LTAR = 0.30) Treatment Level 1	<35%	2.5Y 6/4 (Moist)
6								
8		Sandy Clay Loam	Granular	Massive	No	Type 3A (LTAR = 0.30)	<35%	10YR 4/6 (Moist)
		Total Depth= 8'-0"						
10								

Evidence of Groundwater: Not Reached
Depth to Bedrock: Not Reached

Additional Notes: Dawson Sandstone formation evident in profile pit.

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

STA CALCULATIONS (Seepage Pit)

Date: September 19, 2018

Job: 18.206

Location: 6870 Beulah Street, 80908



Residential, Single Family Dwelling

RE: STA Soil Evaluation Report by Parr Engineering and Consulting, Inc. dated September 13, 2018

Soil Type: **3A** Loamy Sand
Treatment Level: **TL1**
LTAR: **0.30**

WASTEWATER FLOW AND STRENGTH

Bedrooms **2**
Persons **4**
Usage **75** Gals/Person/Day

Daily Design Flow (Q_{design}) = Gallons/Day

75 Gal./Person/Day x [(2 Persons/Bedroom x 2 Bedrooms)] = 300 GPD

Design Flow, Q = **300 GPD**

DESIGN CRITERIA - COMPONENTS

2 Bedrooms

1000 Gallon Septic Tank

DESIGN CRITERIA - SOIL TREATMENT AREA

Long-Term Acceptance Rate (LTAR) =

0.30

Size Adjustment Factor

1.0

Method of Application - Gravity Feed, Seepage Pit - No Reduction Taken

Size Adjustment Factor

1.0

Type of Distribution Media - Seepage Pit - No Reduction Taken

Soil Treatment Area, sq.ft. = Design Flow, Q / LTAR * Adjustment factors

= (300 gallons/day / 0.30) * 1.0 * 1.0 =

1000 sq.ft. Infiltrator Surface

Handwritten signature and date: 9/20/18



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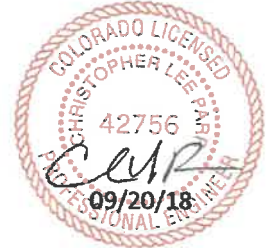
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STA CALCULATIONS (Seepage Pit)

Date: September 19, 2018

Job: 18.206

Location: 6870 Beulah Street, 80908



DRYWELL DESIGN

Drywell/Seepage Pit Cavity/No. Rings Required Try: 14'X14'X15' Cavity (5 Rings)

1 Ring = 3 feet Deep x 5 Rings = 15 feet deep

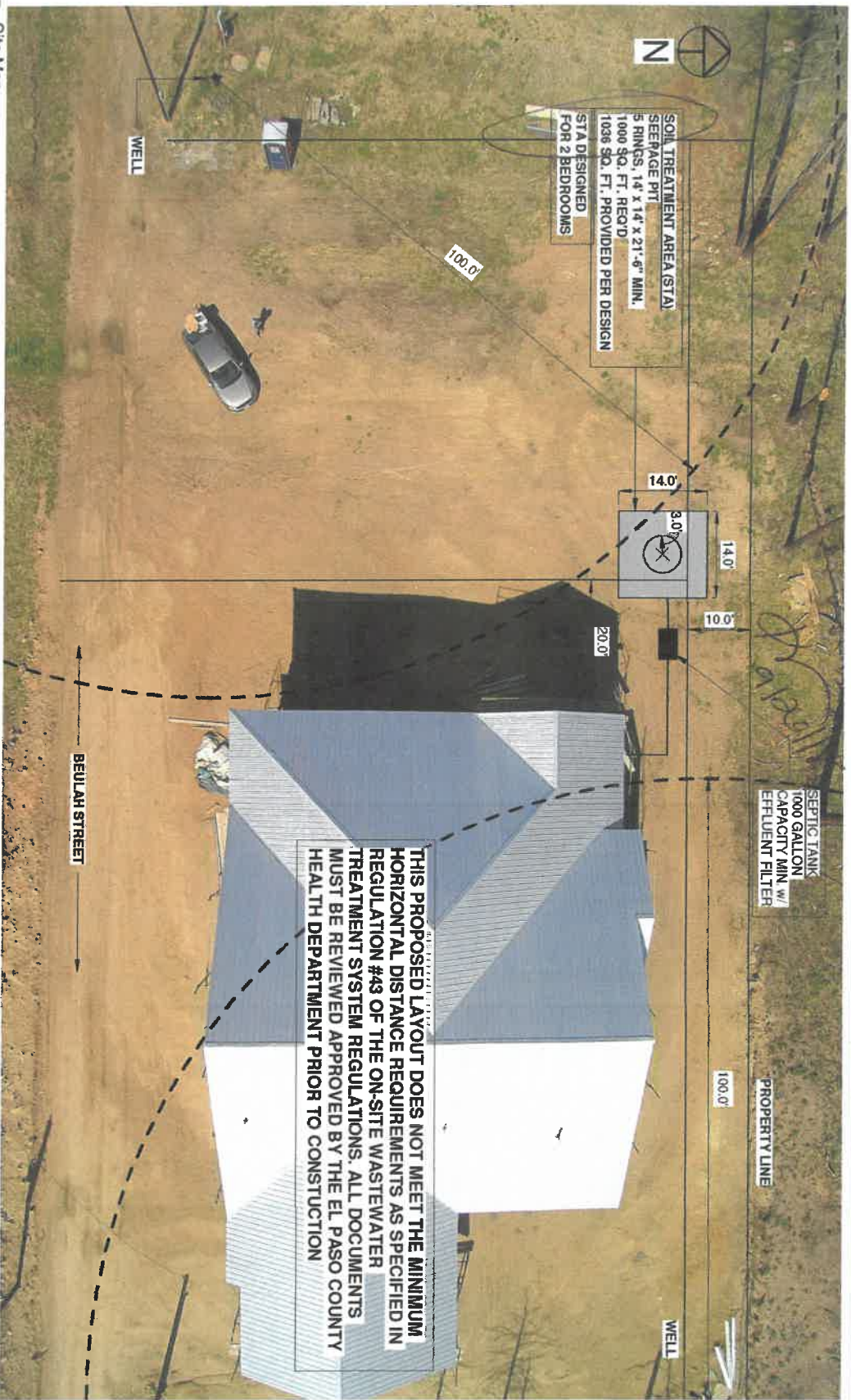
14'X14' Excavation Footprint

$((14 \times 15) \times 4 \text{ Sides} + \text{Bottom}(14 \times 14)) = 1036 \text{ Sq.Ft} > 1000 \text{ Sq.Ft. OK}$

Drywell Specifications:

Excavate a 14' X 14' X 21'-6" deep cavity. Provide 5 drywell rings = 15 ft. deep. Locate well cap 2'-6" below grade for frost protection. Bottom ring shall rest on min. 48" ASTM C-33 Sand. Provide geotextile fabric wrapping with properties to allow effluent out of rings while not allowing sand into seepage pit. Geotextile fabric must be wrapped around concrete rings in addition to 48" of C-33 material enclosing drywell rings. Geotextile fabric to be approved by Parr Engineering & Consulting at time of installation. See attached Section 1

Handwritten signature and date: 9/20/18



1 Site Map
1/16" = 1'-0"



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

6870 BEULAH STREET, 80908

Site Map

Project number 18.206
Date 09/20/18
Drawn by S.DUNFEE
Checked by C.PARR

C1 OF 3

Scale 1/16" = 1'





1 Site Map - Overview
1/16" = 1'-0"



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6870 BEULAH STREET, 80908

Site Map - Overview

Project number 18.206
Date 09/20/18
Drawn by S.DUNFEE
Checked by C.PARR

C2 OF 3

Scale 1/16" = 1'-0"

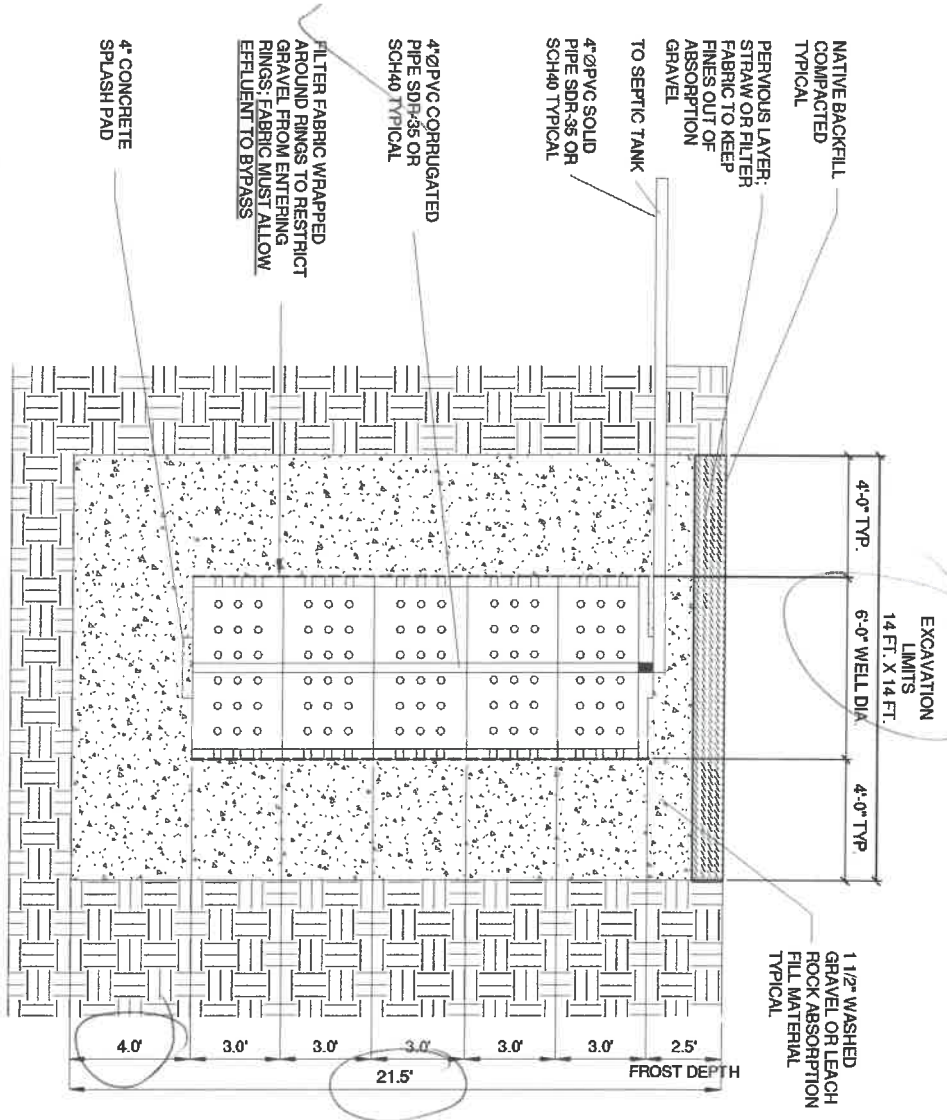


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6870 BEULAH STREET, 80908

STA Section			
Project number	18.206		
Date	09/20/18		
Drawn by	S.DUNFEE		
Checked by	C.PARR		
		Scale	1/4" = 1'-0"
		C3 OF 3	

4 Seepage Pit (5 Rings)
1/4" = 1'-0"



Handwritten signature: C. Parr

