

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

P

On-site ID: 0100049883 Tax schedule (APN) #: 4403005006 Permit Type: New Major Minor
 Environmental Health Specialist: Chelsea Stevens Final Inspection Date: 5-15-19 Approved: YES NO

Residential Property Information:

Owner: Grey Homes Address: 1620 Terri Lee Dr Peyton, Co 80831 Approved No. Bedrooms: 5
 Water supply: Municipal Well Cistern Date well installation verified: 9-5-19 GPS of Well: 38°51'15.03"N, 104°32'16.60"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.

Minimum System Requirements: Soil Type: 2 LTAR: 0.6 Limiting Layer: Groundwater 78" Bedrock _____
 OWTS Tank: Capacity (gallons): 1500
 Soil Treatment Area (STA): Sq. Ft. (10-1): 1000 Sq. Ft. (10-2): 1000 Sq. Ft. (10-3): 700 Sq. Ft. (with Diverter Valve): _____

Final system installation:

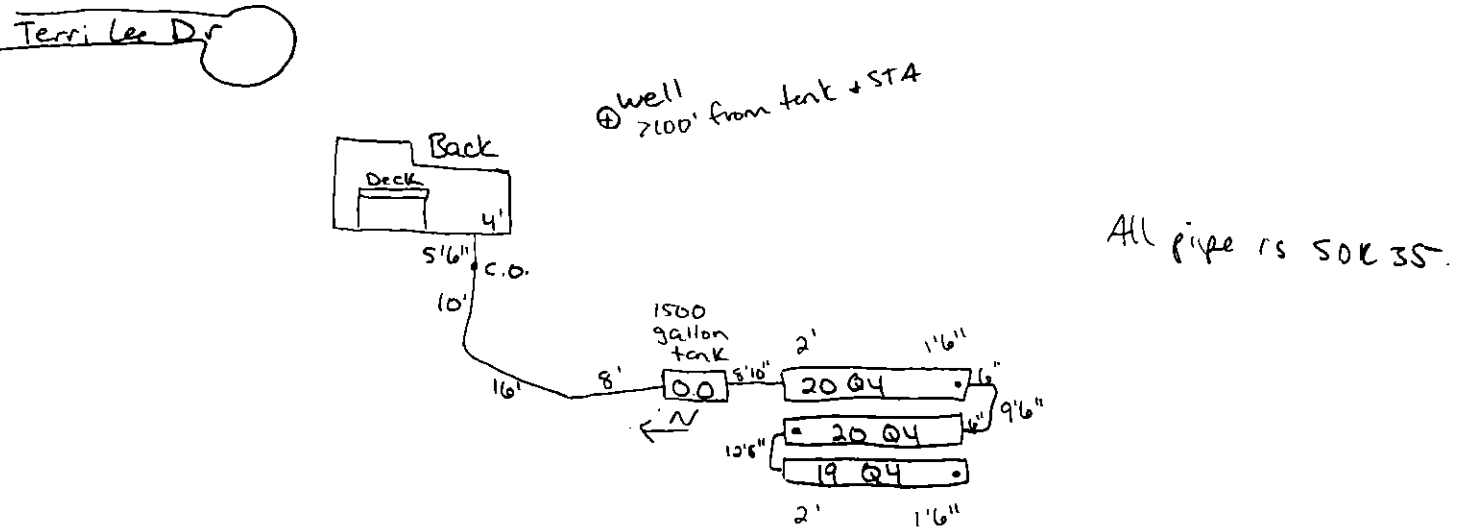
Licenses Installer: Tier 1 Tier 2: Homeowner: Installer: Firebaugh Construction

OWTS Tank: Construction Material: Concrete Capacity (gallon): 1500 Existing New
 GPS Location of tank: 38°51'15.46"N, 104°32'18.03"W

OWTS Pump Tank: YES NO Capacity (gallon): _____ Audio/visual Alarm: YES NO
 Pump (Gal/dose): _____ Dose: _____ Total Dynamic Head: _____ Elevation difference: _____

Soil Treatment Area (STA): GPS Location: 38°51'14.89"N, 104°32'18.65"W Total Sq. Ft installed: 708
 Configuration: Trench Bed Distribution: Gravity Pump to Gravity
 Rock and Pipe: Width: _____ Total Length: _____ Installation Depth: _____
 Depth of Rock (under pipe): _____ Type of cover on Rock: _____
 Chambers: Type: Q4 Sq. Ft./chamber: 12 No. Chambers: 59 Installation Depth (range): 1'6" - 2'

Record Drawing:



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.

Attn: GREY HOMES
1620 TERRI LEE DR
PEYTON, CO 80831



**EL PASO COUNTY PUBLIC HEALTH
ENVIRONMENTAL HEALTH DIVISION**
1675 W. GARDEN OF THE GODS ROAD, SUITE 2044
COLORADO SPRINGS, CO 80907
PHONE: (719) 578-3199 FAX: (719) 578-3188
www.elpasocountyhealth.org

NEW SYSTEM PERMIT - OWTS

Valid From 12/13/2018 To 12/13/2019

PERMITEE :
**GREY HOMES
1620 TERRI LEE DR
PEYTON, CO 80831**

OWNER NAME :
GREY HOMES

Onsite ID: ON0049883
Tax Schedule # : 4403005006
Permit Issue Date: 12/13/2018
Dwelling Type: RESIDENTIAL
of Bedrooms (if Res): 5
Proposed Use (if Comm):
Designed Gallons/Day:
Water Source: PRIVATE WELL

System Installation Requirements:

- A Conventional non-engineered OWTS system to be installed on site.
- System installation includes gravity fed system to chamber in trenches, max installation depth of 30" due to groundwater evidence at 78". Minimum tank requirements 1500 gallon and 700 sq ft of soil treatment area (59 Q4 / 47 Arc 36 chambers required).
- The system must be installed per approved (Entech Engineering INC. non-engineered design document #180069) signed and dated 2.12.2018, 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.

For questions, call Bex: 352-1846

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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.

A handwritten signature in black ink, appearing to be "D. D. D.", written over a horizontal line.

Authorized By: Environmental Health Specialist

520010756 AR0014795 ON0049883

APPLICATION FOR AN ON-SITE WASTEWATER TREATMENT SYSTEM PERMIT

Property Information:

Property Address: 1620 Terri Lee Drive City and Zip: Peyton CO

Legal Description: Lot 9 Davis Ranch #2

Tax Schedule #: 4403005-006 Lot size: _____

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: 5

Has a Conditional Acceptance Document been issued for this property: Yes No Unsure

Owner Information: Primary Contact

Owner: Grey Homes Daytime Phone: (719) 493-2318

Owners Mailing Address: 9285 Kathi Creek Colo sprgs CO 80924

Email Address: _____ Fax #: _____

General Contractor: _____ Phone/Email: _____

OWTS Installer Information: Primary Contact

System Installer: Firebaugh Construction Daytime Phone: 719 5104064

Email Address: jake@firebaughc.com Licensed installer: Tier 1 Tier 2

All engineer-design systems 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: \$750.00 (EPCPH Charge) + \$147.00 (EPC Planning Dept. Surcharge) + \$23.00 (CDPHE Surcharge) = \$920.00

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.

Install 1500 gal concrete septic tank with
700 sq ft serial distribution leach field
or 59 quick lift chambers

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 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 On-site 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.

Applicant Signature: [Signature] Date: 12/5/18

Bex

- 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.

Hwy 94 east to Curtis Road
 turn Left go North to Davis Rd
 turn Right go east to Terri Lee Drive
 turn Right

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

Permit #: 0N0049883 Site Inspection date: 12/10/18
 Date Approvals Rcvd: Development Services: _____ Floodplain/enumerations: _____
 Design: Conventional Engineer Design Engineer: Entech Engineering, Inc
 Engineer Job #: 180069 Engineer Date Stamped: 2-12-18
 LTAR/Soil Type: 0.6 / Type 2 Groundwater: 6.5' PP1 7' PP2 Bedrock: BP1 PP2
 Minimum Requirements: Tank Capacity: 1500 Soil Treatment Area: 700
 System Feed: Gravity Pump to Gravity Pressure Dosed Other: _____
 System Media: Chambers Rock and Pipe Other Soil Treatment Area: Trenches Bed
 Additional Comments: (200/0.6 = 1000(1) = 1000(0.7) = 700 (5924/47 Ac 30)
Installation depth < 30"
 E.H. Specialist: Bernie R.S. Date: 12/10/18 Approved Denied

E

February 8, 2018



ENTECH
ENGINEERING, INC.

505 ELKTON DRIVE
COLORADO SPRINGS, CO 80907
PHONE (719) 531-5599
FAX (719) 531-5238

Gray Homes
9285 Kathi Creek
Colorado Springs, Colorado 80924

Attn: Dave Gray

0100049883
4403005006
5-15-19

Re: OWTS Site Evaluation
1620 Terri Lee Drive
Lot 9, Davis Ranch #2
Peyton, Colorado

Dear Mr. Gray:

As requested, personnel of Entech Engineering, Inc. have observed the excavation of two test pits in the area of the proposed on-site wastewater treatment system (OWTS) absorption field location at the above reference site. This letter presents the results of our testing.

The test pits were excavated on January 17, 2018 to approximate depths of 8 feet. Soils encountered in the test pits consisted of loam topsoil and sandy loam overlying sand with underlying sandy clay. The Test Pit Location Map, Test Pit Logs and Laboratory Test Results are shown in Figures 1 through 5. Bedrock was not encountered in the test pits. Signs of seasonally occurring groundwater were observed in the test pits and 6.5 and 7 feet. A minimum of 4 feet must be maintained between the infiltrative surface and the restrictive sandy clay. System components should not be installed more than 2.5 feet deep in order maintain the separation.

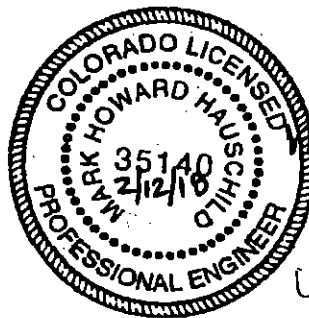
Visual and tactile evaluation of the soils was performed. Provided the system components are installed shallow as presented above, the limiting layer encountered is the sandy loam which corresponds with a USDA Soil Type 2 with a corresponding LTAR value of 0.60 gallons per day per square foot is recommended, for Treatment Level 1. The septic tank and absorption field should be installed in accordance with El Paso County Health Department regulations and requirements.

We trust this has provided you with the information you required. If you have any questions or need additional information, please do not hesitate to contact us.


Respectfully Submitted,

ENTECH ENGINEERING, INC.


Brian W. Vasterling
Geologist



Reviewed by:


Mark H. Hauschild, P.E.
Senior Engineer

BWV

Encl.
Entech Job No. 180069
AAproject/2018/180069 owts-site eval

Bp 12/10



TP- APPROXIMATE TEST PIT LOCATION AND NUMBER

- TP-1 N38° 51' 15.9", W104° 32' 17.3"
- TP-2 N38° 51' 16.4", W104° 32' 17.5"

12/10



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ENGINEERING, INC.
205 ELATON DRIVE
COLORADO SPRING, CO. 80907 719 521-0399

TEST PIT LOCATION MAP
1620 TERRI LEE DRIVE
LOT 9, DAVIS RANCH #2
PEYTON, COLORADO
FOR: GRAY HOMES

DRAWN:
BWV

DATE:
1/29/18

CHECKED:

DATE:

JOB NO.:
180069

FIG NO.:
1

TEST PIT NO. 1
 DATE EXCAVATED 1/17/2018
 Job # 180069

TEST PIT NO. 2
 DATE EXCAVATED 1/17/2018
 CLIENT GRAY HOMES
 LOCATION 1620 TERRI LEE DRIVE

REMARKS	Depth (ft)	Symbol	Samples	Soil Structure Shape	Soil Structure Grade	USDA Soil Type	REMARKS	Depth (ft)	Symbol	Samples	Soil Structure Shape	Soil Structure Grade	USDA Soil Type
topsoil, loam, brown	1	[Symbol]		gr	m	2	topsoil, loam, brown	1	[Symbol]		gr	m	2
sandy loam, fine to medium grained, tan	2	[Symbol]		gr	m	2	sandy loam, fine to medium grained, tan	2	[Symbol]		gr	m	2
sand, fine to coarse grained, tan	3	[Symbol]		gr		1	sand, fine to coarse grained, tan	3	[Symbol]		gr		1
	4	[Symbol]						4	[Symbol]				
	5	[Symbol]						5	[Symbol]				
	6	[Symbol]						6	[Symbol]				
sandy clay, fine to coarse grained, grayish tan	7	[Symbol]		gr	m	4	sandy clay, fine to coarse grained, grayish tan	7	[Symbol]		gr	m	4
	8	[Symbol]						8	[Symbol]				
*signs of seasonal groundwater at 6.5'	9						*signs of seasonal groundwater at 7'	9					
	10							10					

Soil Structure Shape

granular - gr
 platy - pl
 blocky - bl
 prismatic - pr

Soil Structure Grade

weak - w
 moderate - m
 strong - s
 loose - l
 single grain - sg
 massive - ma

Bp 12/10



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ENGINEERING, INC.

505 ELKTON DRIVE
 COLORADO SPRINGS, COLORADO 80907

TEST PIT LOG

DRAWN:

DATE:

CHECKED: *JS*

DATE: 2/6/16

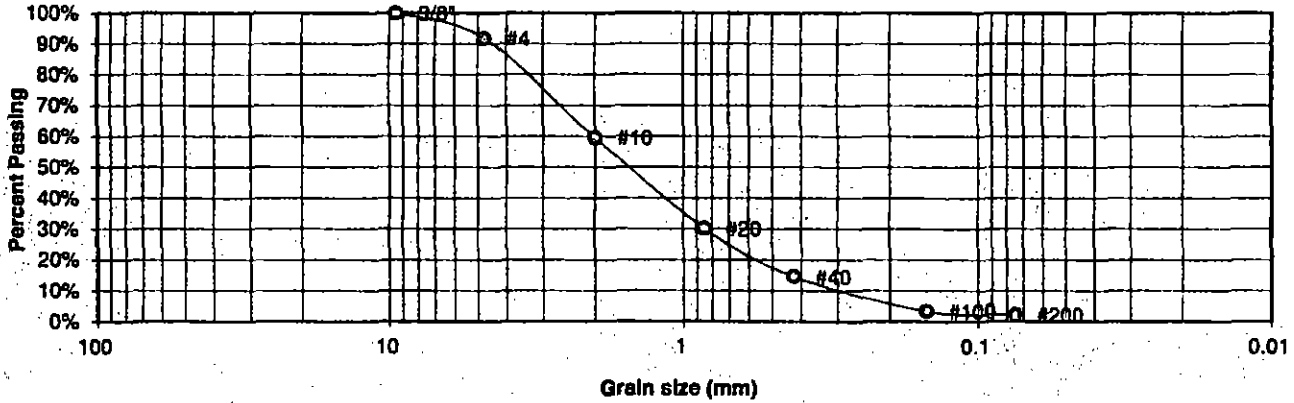
JOB NO:
180069
 FIG NO:
2

BORING NO. TP-1
 DEPTH(ft) 4
 CLIENT GRAY HOMES
 PROJECT 1620 TERRI LEE DRIVE

UNIFIED CLASSIFICATION SW
 AASHTO CLASSIFICATION

TEST BY BL
 JOB NO. 180069

Sieve Analysis
 Grain Size Distribution



U.S. Sieve #	Percent Finer
3"	
1 1/2"	
3/4"	
1/2"	
3/8"	100.0%
4	91.8%
10	59.5%
20	30.2%
40	14.7%
100	3.4%
200	2.3%

Atterberg
 Limits
 Plastic Limit
 Liquid Limit
 Plastic Index

Swell
 Moisture at start
 Moisture at finish
 Moisture increase
 Initial dry density (pcf)
 Swell (psf)

Bp 12/10



ENTECH
 ENGINEERING, INC.

505 ELKTON DRIVE
 COLORADO SPRINGS, COLORADO 80907

LABORATORY TEST
 RESULTS

DRAWN:

DATE:

CHECKED:
OV

DATE:
2/5/18

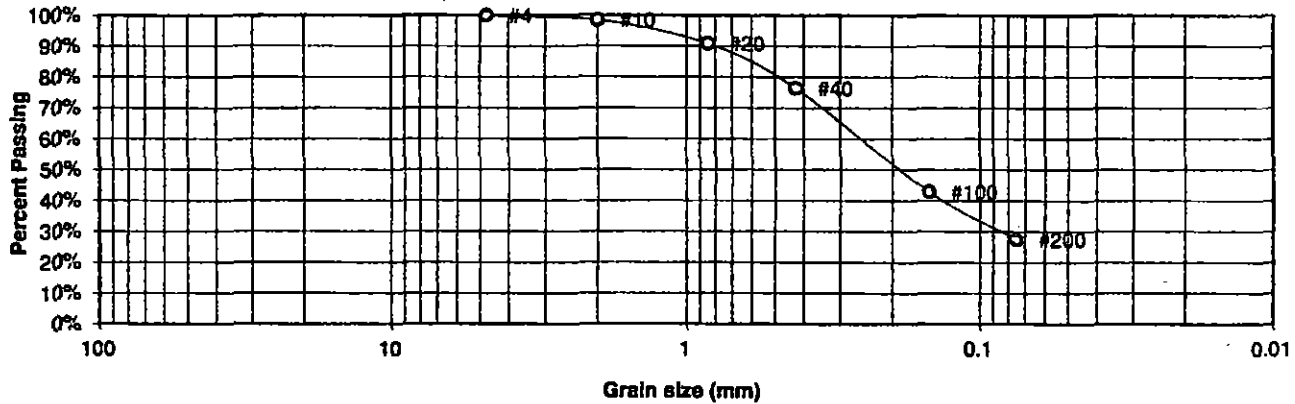
JOB NO.:
 180069

FIG NO.:

3

BORING NO.	TP-2	UNIFIED CLASSIFICATION	SM	TEST BY	BL
DEPTH(ft)	2	AASHTO CLASSIFICATION		JOB NO.	180069
CLIENT	GRAY HOMES				
PROJECT	1620 TERRI LEE DRIVE				

**Sieve Analysis
Grain Size Distribution**



U.S. Sieve #	Percent Finer	Atterberg Limits
3"		Plastic Limit
1 1/2"		Liquid Limit
3/4"		Plastic Index
1/2"		
3/8"		
4	100.0%	<u>Swell</u>
10	98.5%	Moisture at start
20	90.9%	Moisture at finish
40	76.4%	Moisture increase
100	42.9%	Initial dry density (pcf)
200	27.5%	Swell (psf)

By 12/10



**ENTECH
ENGINEERING, INC.**

505 ELKTON DRIVE
COLORADO SPRINGS, COLORADO 80907

**LABORATORY TEST
RESULTS**

DRAWN:

DATE:

CHECKED:

DATE:

BY

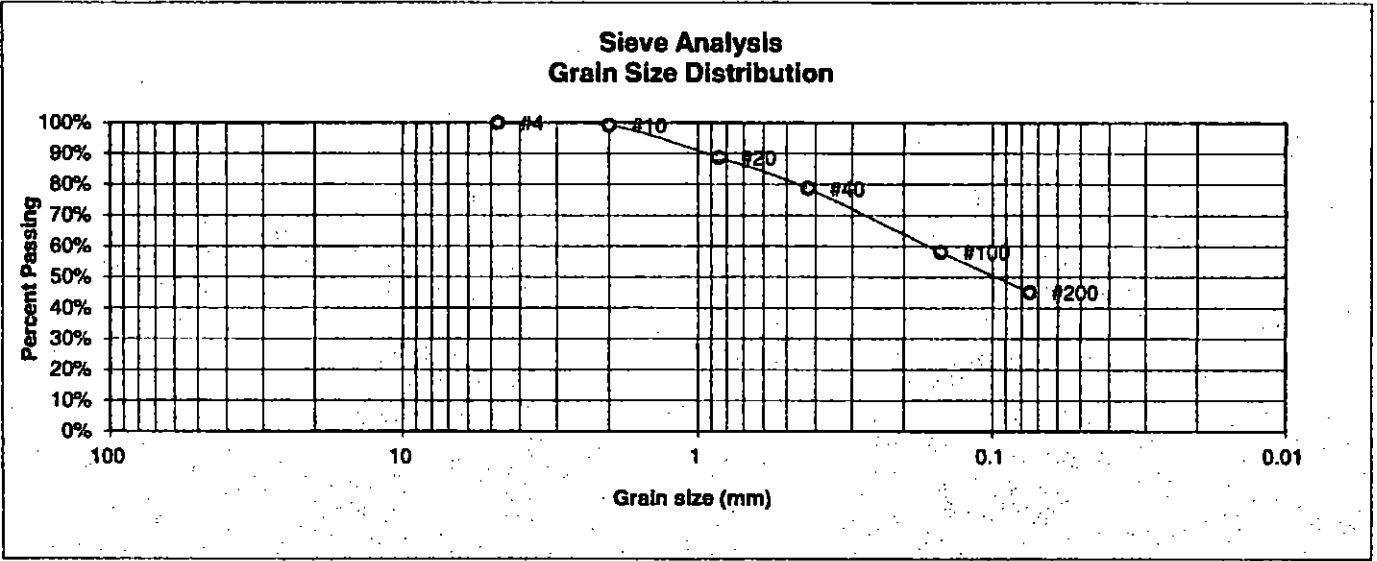
2/5/18

JOB NO.:
180069

FIG NO.:

4

BORING NO.	TP-1	UNIFIED CLASSIFICATION	SC	TEST BY	BL
DEPTH(ft)	7	AASHTO CLASSIFICATION		JOB NO.	180069
CLIENT	GRAY HOMES				
PROJECT	1620 TERRI LEE DRIVE				



U.S. Sieve #	Percent Finer
3"	
1 1/2"	
3/4"	
1/2"	
3/8"	
4	100.0%
10	99.2%
20	88.8%
40	78.7%
100	58.1%
200	45.2%

Atterberg Limits
 Plastic Limit
 Liquid Limit
 Plastic Index

Swell
 Moisture at start
 Moisture at finish
 Moisture increase
 Initial dry density (pcf)
 Swell (psf)

By 12/10



ENTECH
ENGINEERING, INC.
 505 ELKTON DRIVE
 COLORADO SPRINGS, COLORADO 80907

LABORATORY TEST RESULTS

DRAWN:	DATE:	CHECKED: <i>BL</i>	DATE: <i>2/5/16</i>
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JOB NO.:
180069

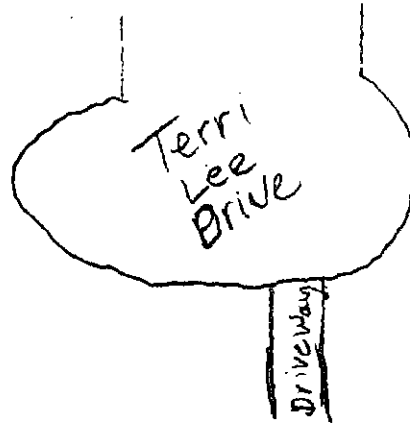
FIG NO.:
5

Proposed Septic Plan

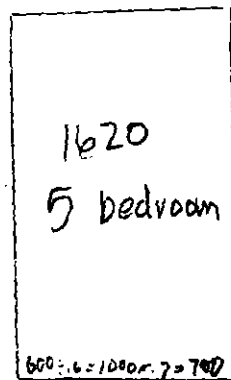
1620 Terri Lee Drive
Lot 9 Davis Ranch #2
Peyton Colorado

No Well on Site
No Prop lines
Within 100 Ft
of OSWT

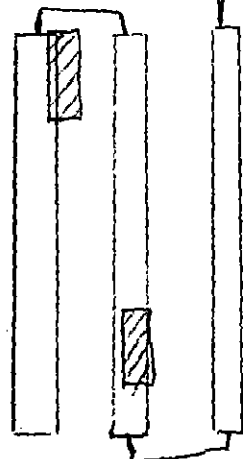
North



7% grade



1500 gal



Leach Field
59 chambers Quick 4-
Serial Distribution to
maintain recommended
shallow depth

BLM Terrace

Approx 40'

B 12/10

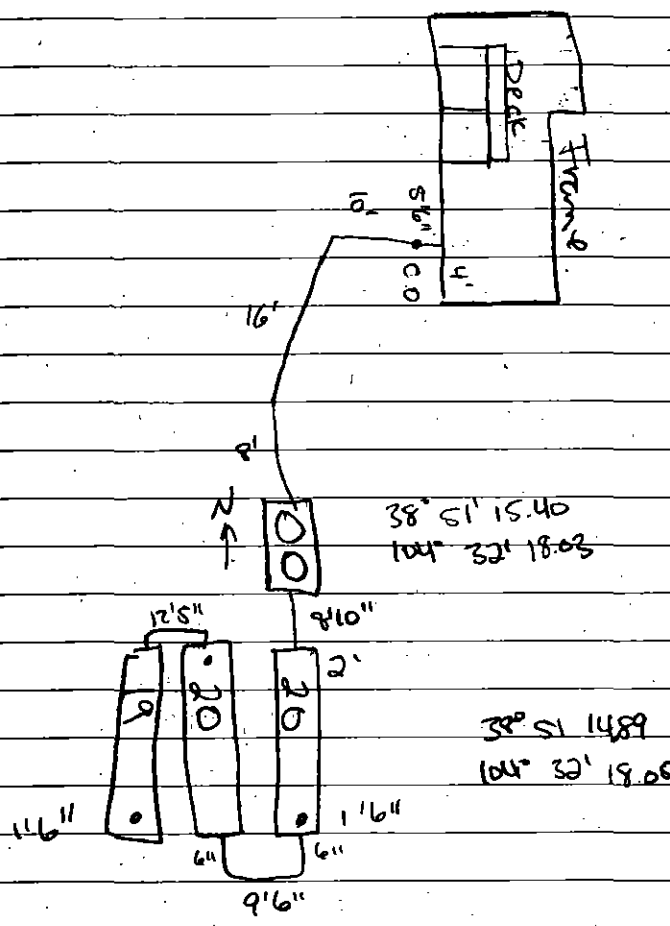
Ferri Lee Dr

ON 49883

5-15-19

100
0
0

chambers, trenches

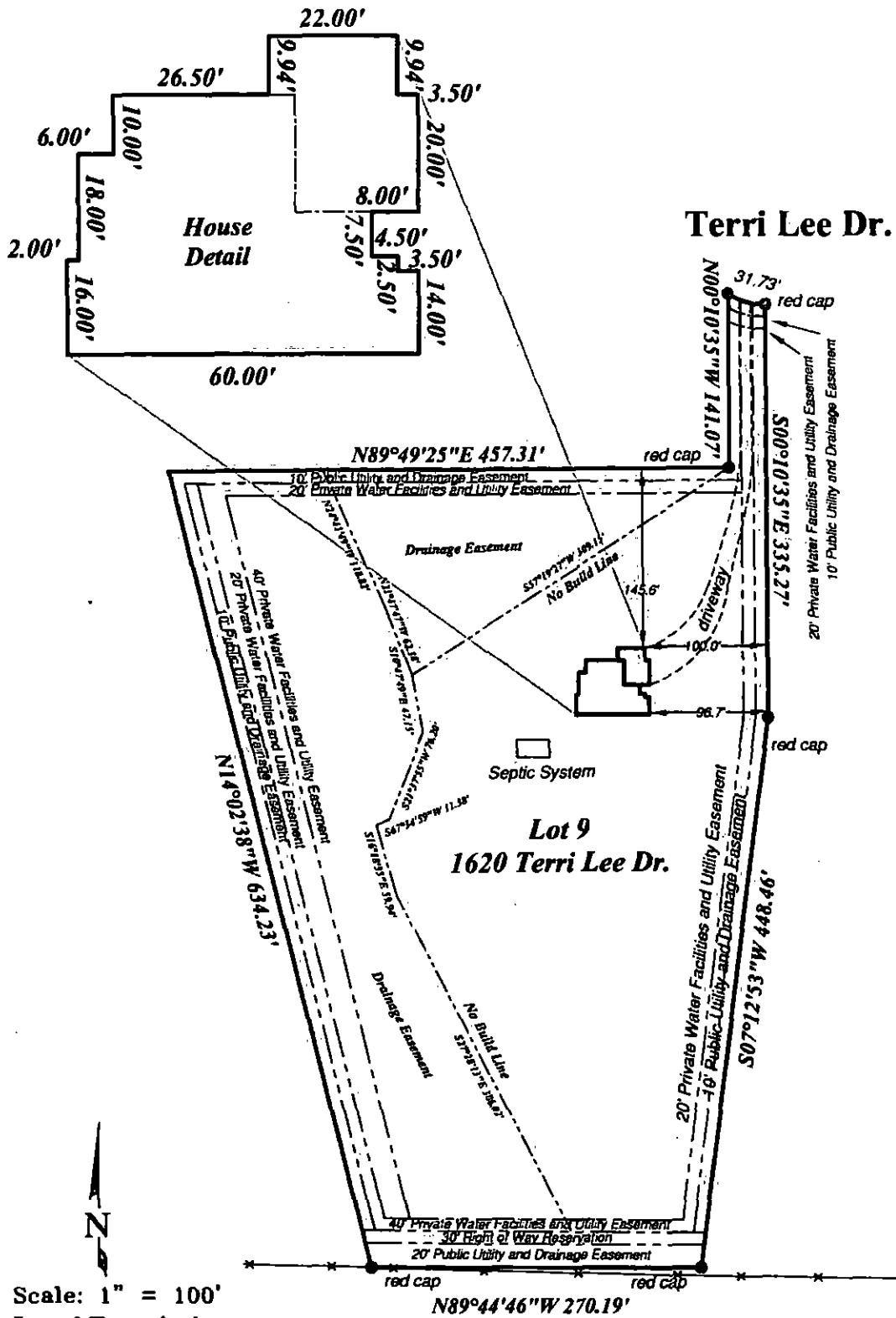


✓ 30" max
 ✓ 1500 gal. concrete
 700 ft² (708 ft²)
 ✓ 59 04, 47 Ave 36
 Private well
 © 2015
 Well call in
 Well verification
 for both properties

Jason Firebaugh

All pipe is SDR 35

Site Plan



Scale: 1" = 100'
 Legal Description

Lot 8, Davis Ranch Subdivision Filing No. 2, County of El Paso, State of Colorado.



ALESSI & ASSOCIATES, Inc.
 APPRAISERS • ENGINEERS • SURVEYORS
 2989 Broadmoor Valley Road
 Colorado Springs, CO 80906
 Tele. 719/540-8832
 Fax 719/540-2781

PURPORTED STREET ADDRESS:

1620 Terri Lee

DATE: 10/24/2018

CLIENT: ONeill

JOB NUMBER: 181609

Bp 12110