



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

ON-SITE WASTEWATER TREATMENT SYSTEM INSPECTION FORM

ON-SITE ID: ON0048860

P

APN # 4502001032

DATE: 10/10/2016

APPROVED YES ☒ NO ☐

Environmental Health Specialist: Janet Christensen

Address: 3535 Hare Haven Ln 80930

Owner: Jeremy & Kelli Ducey

Residence: ☒ #Bedrooms: 4 Commercial: ☐ System Installer: Grasmick

SEPTIC TANK: Construction Material Concrete

Capacity Gallon 1250

SOIL TREATMENT AREA:

Trench: Depth (Range): Width: Total Length: Sq. Ft.:

Bed: Depth (Range): Width: Total Length: Sq. Ft.:

Depth of Rock: Under PVC: Type of cover on Rock:

SEEPAGE PITS: # of Pits: Working Depth #1: #2: Size (L x W) #1 #2 Total Sq. Ft.

CHAMBER SYSTEMS:

Type of Chamber: ARC36 #Chambers: 42 Sq. Ft./Chamber: 15 Bed: ☐ Trench: ☒ Depth (Range: sq. Ft. 36" - 42" Required (10-1): 875 Sq. Ft. Required (10-2): 875 Sq. Ft. Required (10-3): 613 Sq. Ft. Required for Diverter Valve: N/A
Sq. Ft. Installed: 630

Engineer Design: Y ☐ N ☒ Engineering Firm: N/A Approval Letter Provided: Y ☐ N ☒

Well installed at time of OWTS inspection: Y ☒ N ☐ Public Water: Y ☐ N ☒

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

Notes There is an effluent filter installed in the outlet of the septic tank. The Soil Treatment Area (STA) was installed in the area of the alternate site depicted on the design document.

As-Built

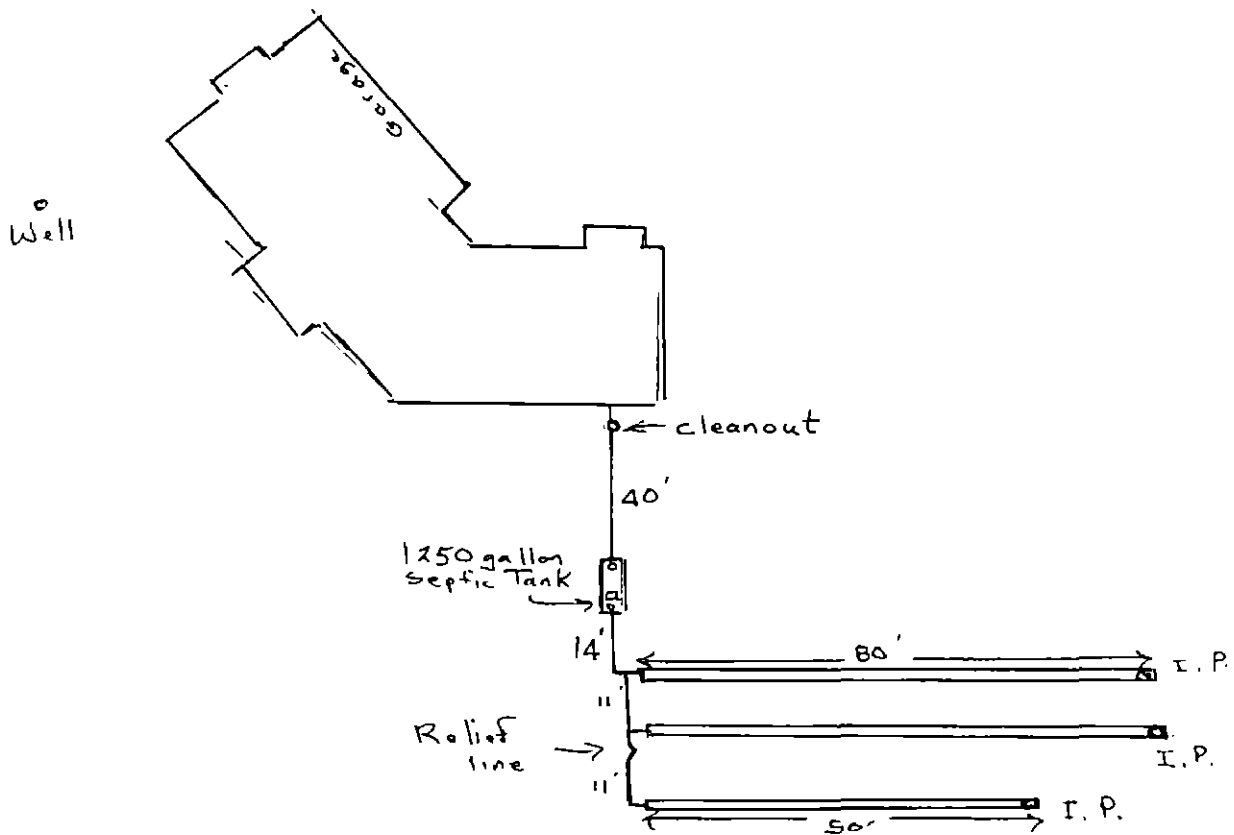
3535 Hare Haven Ln.

OWN 0048860

APN# 4502001032

10/10/16

Hare Haven Ln.



I.P. = Inspection Port

Attn: JEREMY & KELLI DUCEY
3535 HARE HAVEN LN
COLORADO SPRINGS, CO 80930

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
COLORADO SPRINGS, CO 80907
PHONE: (719) 578-3199 FAX: (719) 578-3188
www.elpasocountyhealth.org

NEW SYSTEM PERMIT - OWTS

Valid From 5/4/2016 To 5/4/2017

PERMITEE :

JEREMY & KELLI DUCEY
3535 HARE HAVEN LN
COLORADO SPRINGS, CO 80930

Onsite ID: ON0048860

Tax Schedule #: 4502001032

Permit Issue Date: 05/04/2018

Dwelling Type: RESIDENTIAL

OWNER NAME :

JEREMY & KELLI DUCEY

of Bedrooms (if Res): 4

Proposed Use (if Comm):

Designed Gallons/Day:

Water Source: PRIVATE WELL

System Installation Requirements:


- A conventional non-engineer design On-Site Wastewater Treatment System (OWTS) is to be installed at this site.
- Install system per approved design document submitted by the owner/builder.
- Health Dept. shall inspect system prior to backfill.

The OWTS must be installed per the stamped and approved Design Document dated 05/04/2016.

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 8:30 a.m. of the day that the inspection is requested
Weekends & Holidays excluded.**

 578-3141

Authorized By: Environmental Health Specialist

SB0004761 AB009068

APPLICATION FOR AN ON-SITE WASTEWATER TREATMENT SYSTEM PERMIT
☒ NEW PERMIT ☐ MAJOR REPAIR PERMIT ☐ MINOR REPAIR PERMIT

Owner Jeremy Ducey Daytime Phone 719-321-1187
 System Installer Jeremy Ducey Daytime Phone 719-321-1187
 Property Address 3535 Haze Haven City and Zip CO, Springs CO, 80930
 Legal Description Lot 22 Edwards Sub Eil No 4
 Owners Mailing Address 18835 Enchanted Co, Springs CO 80930
 Email Address JDADREP83@hotmail.com Fax # _____
 Tax Schedule # 4502001032 Lot Size 5.02 acres
 Site Located Inside City Limits ☒ Yes ☐ No Primary Contact ☒ Owner ☐ Contractor
 Proposed Use: ☒ Single Family ☐ Multi-Family ☐ Commercial
 Water Supply: ☒ Well ☐ Cistern ☐ Municipal Number of Bedrooms 4
☒ Pick up: ☐ Fax: ☒ Email:

CURRENT FEES AS APPROVED BY THE EL PASO COUNTY BOARD OF HEALTH**New Permit:** \$650.00 (EPCPH Charge) + \$147.00 (EPC Planning Dept. Surcharge) + \$23.00 (CDPHE Surcharge) = \$820.00**Major Repair Permit:** \$515.00 (EPCPH Charge) + \$23.00 (CDPHE Surcharge) = \$538.00**Minor Repair Permit:** \$230.00 (EPCPH Charge) + \$23.00 (CDPHE Surcharge) = \$253.00

- All Payments are due at the time of application submittal; by cash, check or major credit card (Visa / MC)
- This permit will expire one year from the date of issuance.

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: Jeremy Ducey Date: 4/6/16

Site Insp. Date: 4/30/16 Perc. Rate: 24 Permit # 0100048860

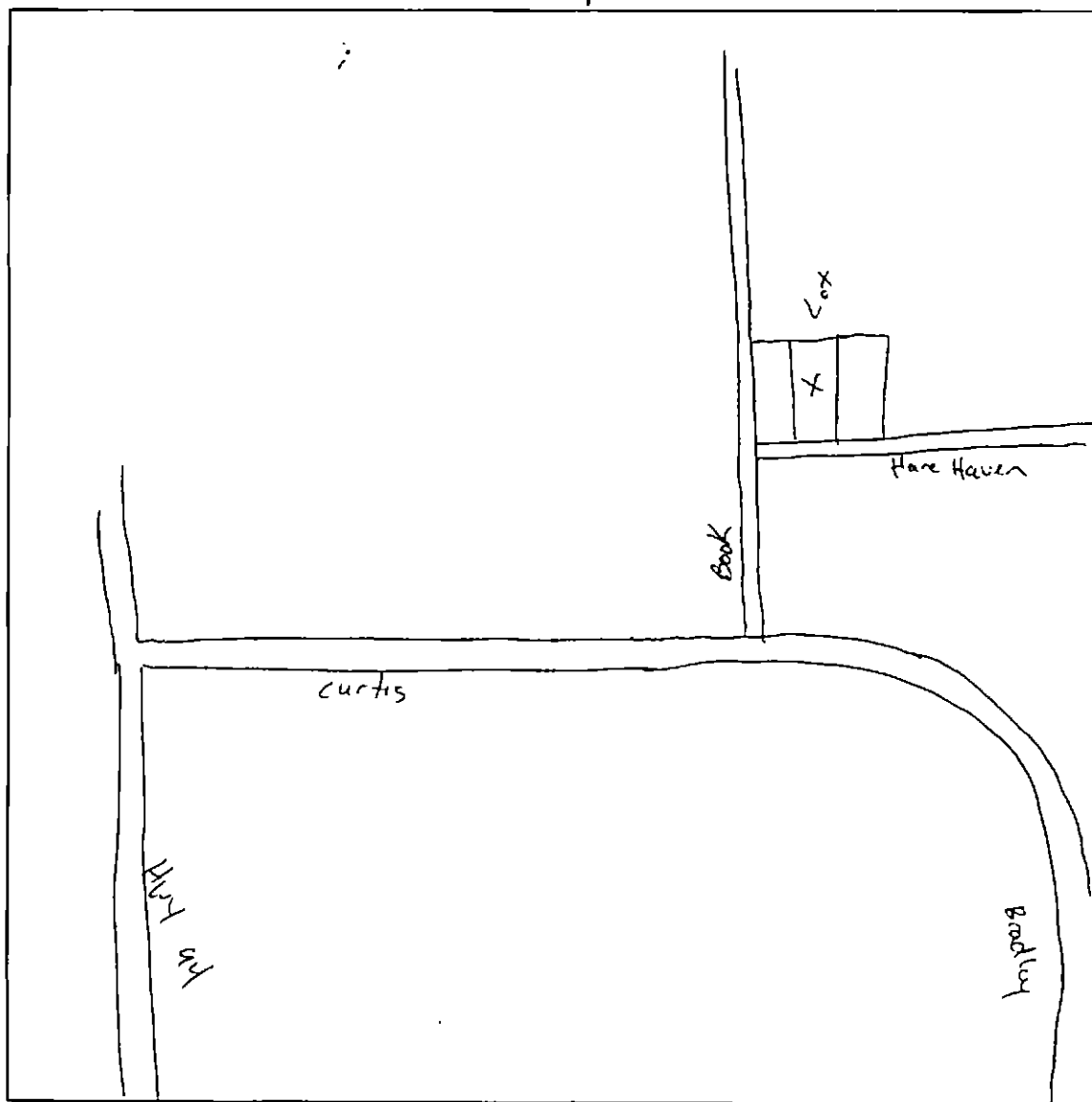
E.H.S. Review Notes: 5/3/16

Date to: E.P.C. Development Services Disapproved Flood Plain and Enumerations Approved

Permit Requirements: _____

Janet

- 1) A report is required per Section 8.5 A-E, "Site and Soil Evaluation", or Section 8.5 A-F if the OWTS requires design by a Colorado Registered Professional Engineer. If your permit application submittal is incomplete, the application will not be accepted.
- 2) Property address or lot number must be posted and clearly visible from the road. The percolation test holes and/ or soil profile test pit must be clearly marked or an additional charge for a return trip to the site may be assessed.
- 3) The proposed soil treatment area must be protected from compaction and disturbance by staking, fencing, posting or other effective method.
- 4) In the Box below, please provide complete and accurate directions to the property from a main highway.



E 3535 Hare Haven Ln
00048860
APN# 4502001032
10/10/2016



6825 Silver Ponds Heights #101
Colorado Springs, CO 80908
(719) 481-4560

PERCOLATION TEST

FOR

JEREMY DUCEY

JOB #16-0022

Lot 22, Filing 4,
Edwards Subdivision,
3535 Hare Haven Lane,
El Paso County,
Colorado

Respectfully submitted,

Charles E. Milligan, P.E.
Civil Engineer



PERCOLATION TEST FINDINGS

Due to the change in regulations a Profile Pit Evaluation will be required prior to a Septic Design being drawn by Geoquest.

Enclosed are the results of the percolation test for the septic system to be installed at Lot 22, Filing 4, Edwards Subdivision, 3535 Hare Haven Lane, El Paso County, Colorado. The locations of the percolation test borings were determined by Jeremy Ducey. The residence will not be on a public water system. The number of bedrooms in the design for the residence is unknown. Due to the natural slope of the property, the entire system will feed to the northeast at 8% approximately 75 feet. All applicable regulations of the El Paso County Health Department ISDS Regulations must be complied with for the installation of the disposal system.

The percolation test was performed on April 20, 2016, in accordance with Section 8.6, Soil Test, E.P.C.P.H. OWS Regulations. The field data and results of the percolation test are as follows:

PERC. TEST @ TIME	PERC HOLE #1 @ 34" DEPTH DROP (IN INCHES)	PERC HOLE #2 @ 34" DEPTH DROP (IN INCHES)	PERC HOLE #3 @ 34" DEPTH DROP (IN INCHES)
8:20	7/8	1-1/8	1-1/4
8:30	1	5/8	7/8
8:40	7/8	3/8	5/8
8:50	11/16	3/8	9/16
9:00	1/2	3/8	1/2
9:10	1/2	5/16	1/2
Rate/Hole	20.0	32.0	20.0

The average of the test holes is 24.0 minutes per inch.

Blow counts at the depth of 3 feet was 20/12.

The soil profile for the disposal system is as follows:

- 0 to 4" - Topsoil- loam, organic composition.
- 4" to 9' - Sand- fine to coarse grain, moderate density, low moisture content, low clay content, low cohesion, low plasticity, brown in color.

✓ No water was encountered during the drilling of all holes. Bedrock was not encountered. No known wells were observed within 100 feet of the proposed system. All setbacks shall conform to county regulations.

If during construction of the field itself, subsurface conditions change considerably or if the location of the proposed field changes, this office shall be notified to determine whether the conditions are adequate for the system as designed or whether a new system needs to be designed.

Weather conditions at the time of the test consisted of partly cloudy skies with moderate temperatures.



DRILL LOGS

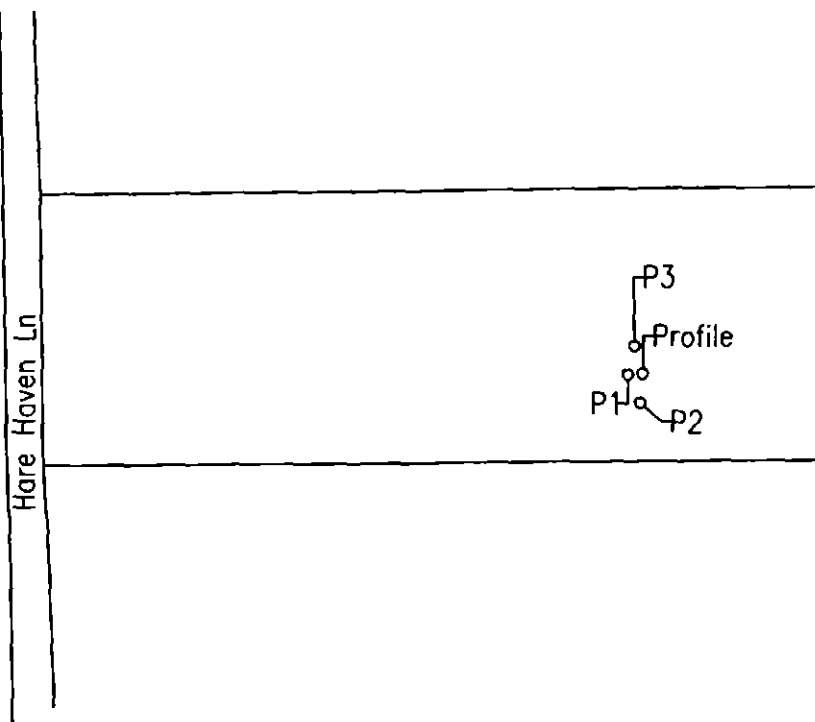
JOB #: 16-0022	DEPTH (in ft.)	SYMBOL	SAMPLES	BLOW COUNT	WATER %	SOIL TYPE
TEST BORING NO.: TH-1						
DATE: 4/20/2016						
<u>0"-4" Topsoil</u>						
<u>4"-9' Sand (SM)</u>						
Fine-coarse grained	1					
Moderate density	2					
Low-moderate moisture content	3					
Low clay content	4					
Low plasticity	5					
Brown color	6					
	7					
	8					
	9					
	10					

JOB #:	DEPTH (in ft.)	SYMBOL	SAMPLES	BLOW COUNT	WATER %	SOIL TYPE
TEST BORING NO.: TH-						
DATE:						
	1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					

GEOQUEST LLC

SITE MAP

Lot 22, Filing No 4
Edwards Subdivision,
3535 Hare Haven Lane
El Paso County,
Colorado,
Job # 16-0022



Location from Southeast Lot Corner to Profile:

N. 65° W. - 210'

Location from Profile to:

P1: S. 86° W. - 15'

P2: S. 5° W. - 30'

P3: N. 17° W. - 30'

GPS coordinates:

N. 38° 46' 45.89"

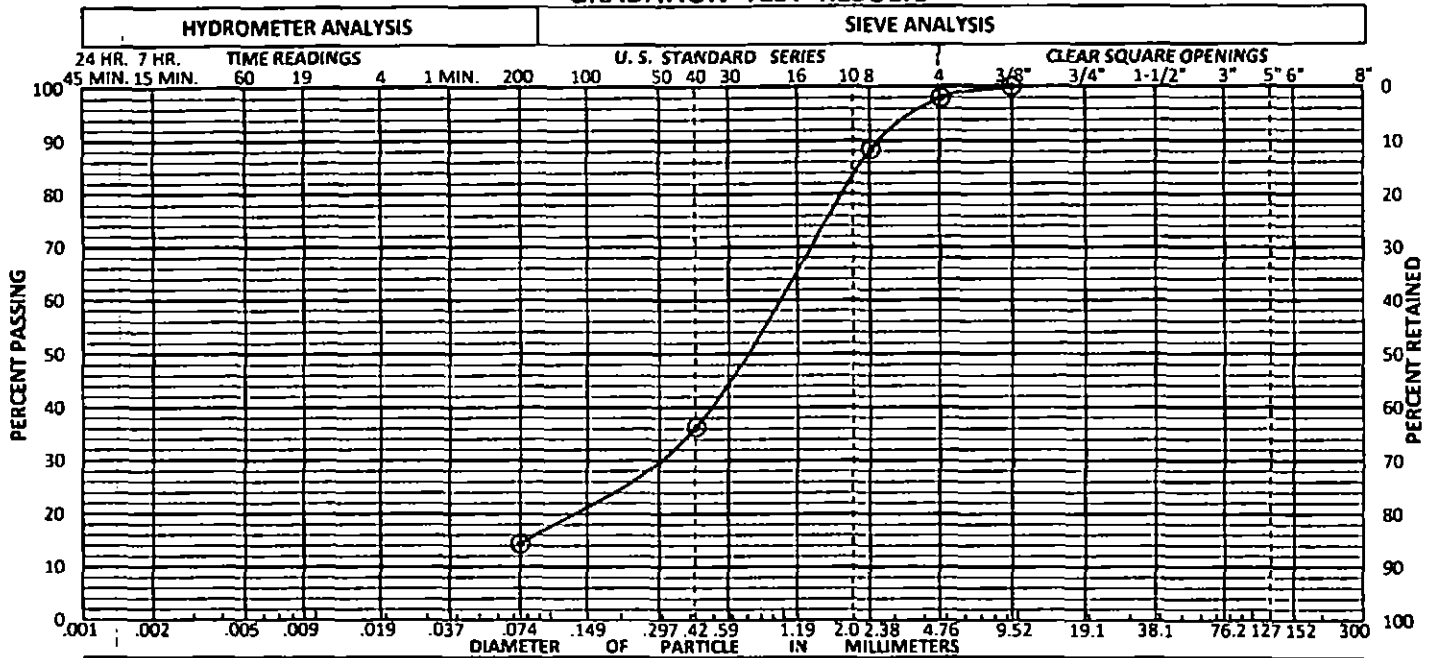
W. 104° 31' 13.58"



0 50 100 150 200
GRAPHIC SCALE IN FEET
SCALE: 1" = 200'

GEOQUEST LLC

GRADATION TEST RESULTS



CLASSIFICATION SM

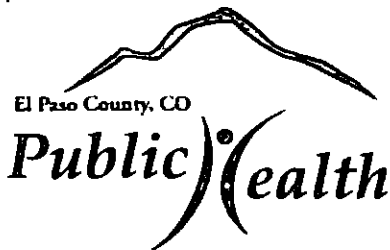
GRAVEL 2.1 %
 SAND 83.6 %
 FINES 14.3 %

NOTES: 4.4 % Moisture Content

SAMPLE # 1 HOLE # TH-Prof DEPTH 3 FEET

Job #: 16-0022 By: DM

4/20/2016



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**CONVENTIONAL (NON-ENGINEERED)
ON-SITE WASTEWATER TREATMENT SYSTEM (OWTS) DESIGN WORKSHEET
(MUST BE COMPLETED FOR ALL CONVENTIONAL DESIGNS)**

Wastewater Flow

Total number of bedrooms: 4
Design wastewater flow (gallons/day) from Table 6-1: 75

Septic Tank

Septic tank size (in gallons) from Table 9-1: 1250
Tank burial depth (from top of tank, in inches) 40"
(NOTE: Shall not exceed 48 inch depth by regulation)

Will groundwater affect tank?

Yes ☐ No ☒

Will an effluent screen be installed?

Yes ☒ No ☐

(Note: Effluent screens are required for all new systems or replacement of the septic tank)

Soil Treatment Area (STA)

Long Term Acceptance Rate (LTAR) From Table 10-1:

.60

Unadjusted STA size (see 8.10.C.4) – show calculation:

Design flow (gallons per day)

LTAR (gallons/day/sq.ft.)

=

$$525 / .6 = 875$$

Depth of STA (cannot exceed 48"):

3 trenches at 70' long
the selection reason must be specified:

Trenches are preferred. If bed system is selected,

Type of STA (check which applies):

☒ Trench ☐ Bed

FOR REPAIRS ONLY (check which applies):

☐ Wide Bed (more than 12 feet wide)
☐ Deep Gravel Trenches
☐ Seepage Pit
☐ None of the Above

Method of Septic Tank Effluent Application (check which applies):

- ☒ Gravity
☐ Pump to gravity
☐ Dispersed by siphon

Type of Distribution Media (check which applies):

- ☐ Rock
☐ Tire chips
☒ Chambers
☐ Other _____ Other type _____

Adjusted STA size, using factors from Table 10-2 & 10-3 (show calculation, with adjustment factors utilized):

$$875 \times 1 = 875 \times .7 = 612.5$$

A scale drawing *shall* be provided with each design document (see attached example design documents), showing:

- Layout of entire OWTS, including the STA configuration (trench, bed, etc.)
- Dimensions of the trench(s) or the bed(s)
- Location of all OWTS components and distances to all applicable physical features in Table 7-1
- Depths of all components (or elevations relative to a designated benchmark)
- Location of the soil profile test pit excavation(s), or percolation test holes, if required
- Location of the alternate STA site
- North direction arrow
- Graphic scale (1" = 20', 1" = 30', etc.)
- Contours, OR slope direction and % slope

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.

The proposed STA sites must be protected from disturbance, compaction, or other damage by staking, fencing, posting or other effective methods.

Certification

Jeremy Ducey
Signature

Jeremy Ducey
Print Name

5/1/16
Date

3535 Hare Haven Co, Springs 80930
Property Address

Home owner Build.
Company Name

18885 Enoch. rd. Co Springs 80950
Address

(719) 321-1187
Phone

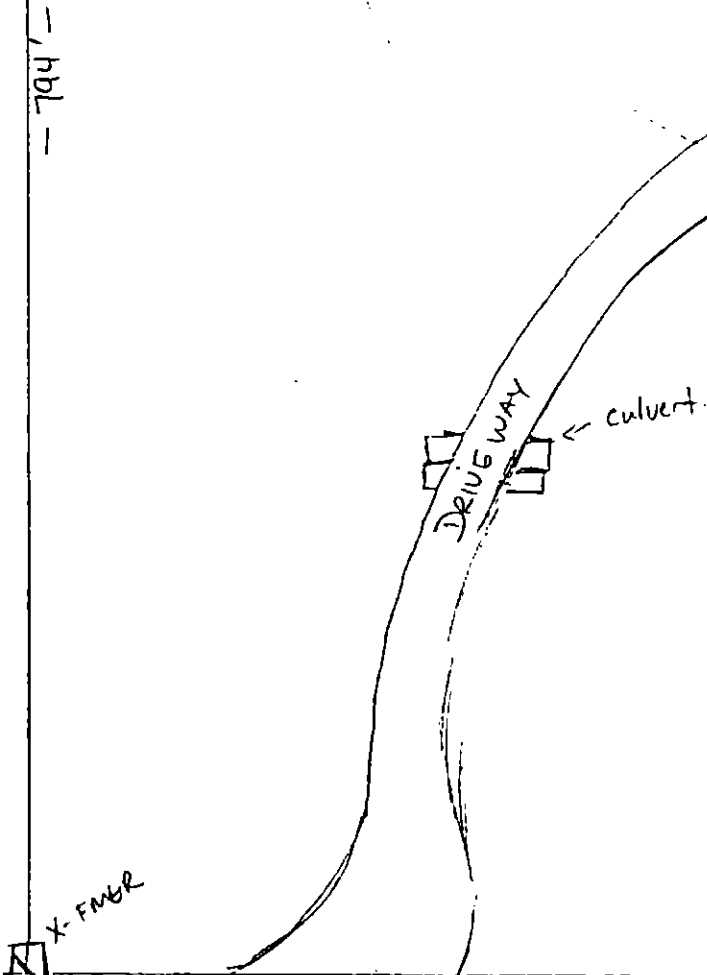
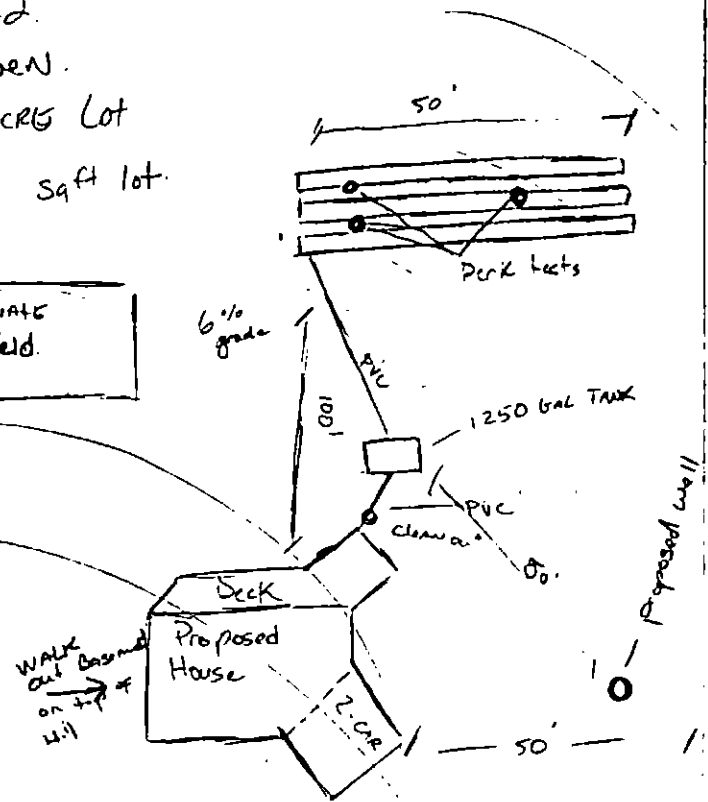
JJADUCEY03@hotmail.com
Email

(See attached Tables and Design Document examples)

278
 Edwards lot 22.
 3535 Hare Haven.
 5.02 ACRE Lot
 218,671 sq ft lot.

- 4- bedrooms
- Required septic tank capacity 1250 gal
- 525 GPD / .6 gpd x .7
 (chambers) = 612.5 sq ft.
- Designed infiltration System
 3 Runs x 70 ft per run x 3sf width = 630 sq ft
- Clean out within 5' of house.
- Septic tank no deeper than 48"
- Trenches no deeper than 48"
- Well 100' From STA and 50' From Septic

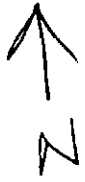
ALTERNATE
 Field.



← N
 Hare haven rd.

El Paso County Public Health
 Environmental Health Services
 1675 W. Garden of the Gods Rd., Suite 2044
 Colorado Springs, CO 80907

Daniel Christensen 5/04/16



Have Haven

10-10-16

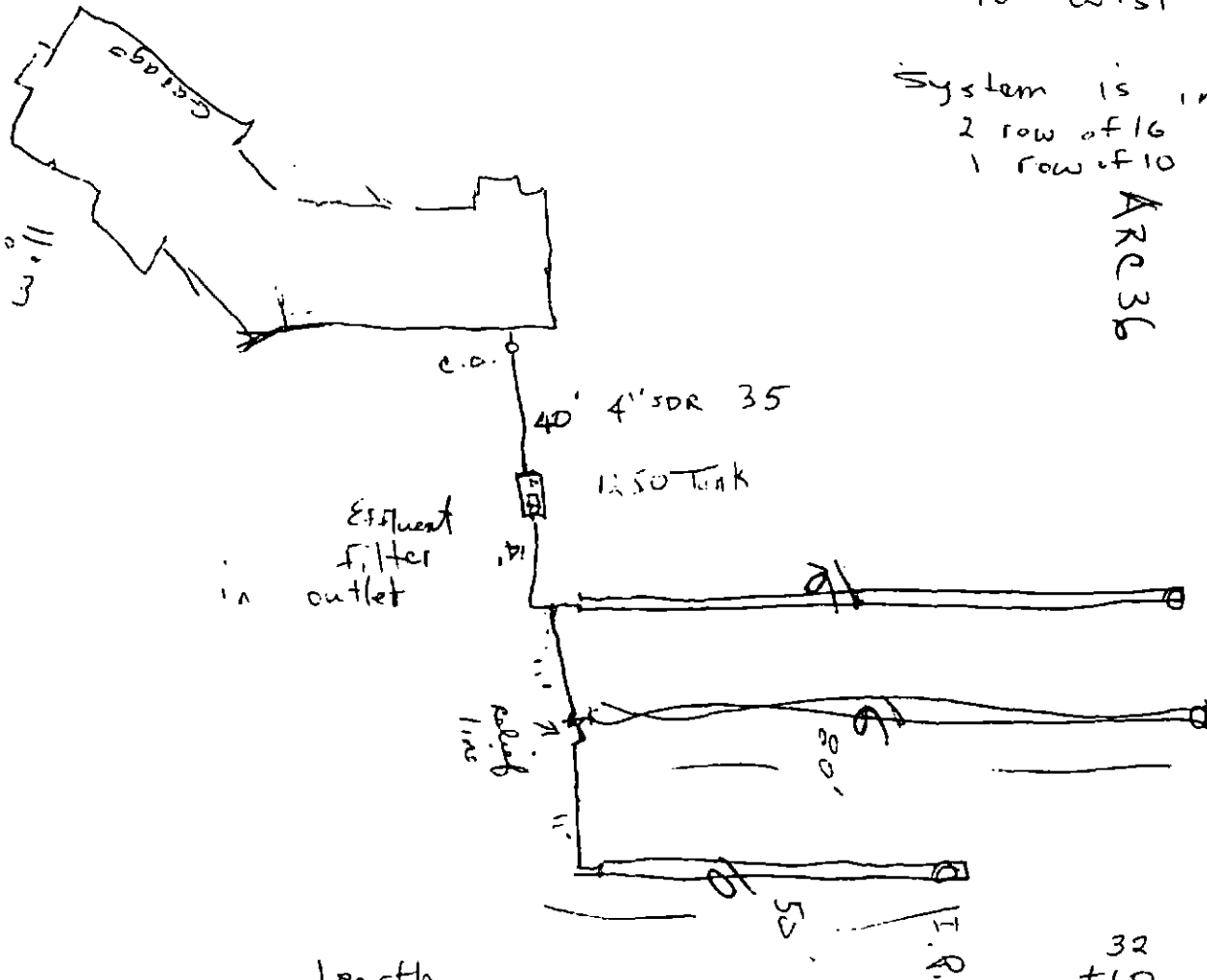
Need Altered Permit
for design change

original was 3 row of 70
to west . Primary Site.

System is installed to East
2 row of 16
1 row of 10

Area 36

W - 3 1/2' deep



$$\begin{array}{r}
 \text{length} \\
 160' \\
 + 50' \\
 \hline
 210' \\
 \times 3 \\
 \hline
 630 \text{ ft}^2
 \end{array}$$

$$\begin{array}{r}
 32 \\
 + 10 \\
 \hline
 42 \text{ Chambers} \\
 \times 15 \\
 \hline
 210 \\
 42 \\
 \hline
 630 \text{ ft}^2
 \end{array}$$