

APPROVED YES ✓ 6/25/98

ENVIRONMENTALIST J. Myslowski P.

Address: 9540 Bennison Terrace

Owner Hayden Devel. Corp

Legal Description lot 5, Raygoe Subdivision

Residence ✓ Commercial    # of Bedrooms 4 System Installer R&R ditching

SEPTIC TANK

Commercial    ✓ Noncommercial    Measurements: L    W    D   

Construction Material pre Cast Concrete Liq. Cap. 1500 gallons

DISPOSAL FIELD

Exc. Depth Surface Width 24 ft Total Length 48 ft Sq. Ft. 1800 ft<sup>2</sup>

Rock none Depth    Under    Over   

Rockless System: Diameter of Pipe Infiltrator @ 18.75" sections 48 sections

Seepage Pits: Number of rings    Lining Material    Sq. Ft.   

Working Depth    Width   

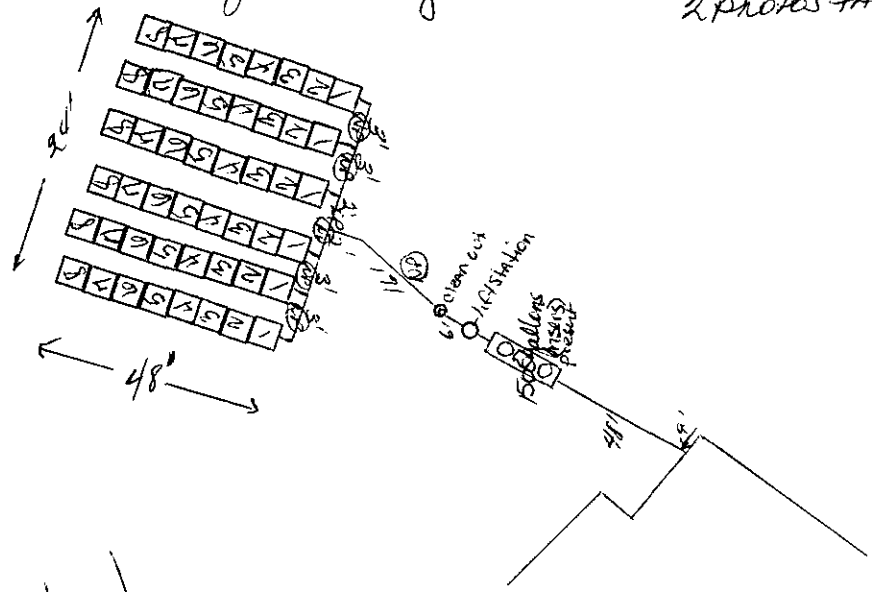
Engineer Design Yes ✓ Type Bed Engineer Approval Letter Yes No

Well 50 feet from Tank yes 100 feet from leach field yes

Well Installed at Time of Septic System Inspection Yes ✓ No    Public Water No

\* 6/25/98 see letter from Engineer dated 6/25/98  
2 photos taken

DE  
non  
perforated.



Bennison Terrace

104

Acres 5

EL PASO COUNTY • COUNTY HEALTH DEPARTMENT

Permit

No

6619

501 North Foote Avenue • Colorado Springs, Colorado • 578-3125

Water Supply WELL

## PERMIT

Receipt No.

5313

TO CONSTRUCT, ALTER, REPAIR or MODIFY ANY INDIVIDUAL SEWAGE DISPOSAL SYSTEM

Issued To HEYDEN DEVEL. CORP.Date 7-24-92Address of Property 9550 BENNISON TERRACE, LOT 5Phone 495-0630

(Permit valid at this address only)

Sewage-Disposal System work to be performed by R & R DITCHING

Phone

635-9999

This Permit is issued in accordance with 25-10-106 Colorado Revised Statutes 1973, as amended. PERMIT EXPIRES upon completion of installation of sewage-disposal system or at the end of twelve (12) months from date of issue—whichever occurs first—(unless work is in progress). This permit is revokable if all stated requirements are not met.

—THIS PERMIT DOES NOT DENOTE APPROVAL OF ZONING AND ACREAGE REQUIREMENTS—

\$150.00

PERMIT FEE (NOT REFUNDABLE)

DIRECTOR, COUNTY HEALTH DEPARTMENT

7-24-93  
DATE OF EXPIRATION

ENVIRONMENTALIST

NOTE: LEAVE ENTIRE SEWAGE-DISPOSAL SYSTEM UNCOVERED FOR FINAL INSPECTION. 48 HOUR ADVANCE NOTICE REQUIRED.

SEPTIC TANK:	TRENCH SYSTEM:	BED SYSTEM:	SEEPAGE PIT SYSTEM:
total square feet	total square feet	total square feet	total square feet
<u>1500</u> gallons	<u>1140</u>		
	ft. of trench _____ inches wide		rings or _____ diam.x _____ w/d
	ft. of trench _____ inches wide		

NOTES: ISDS to be installed per 1990 EPA Regulations, and engineer design. All minimum distances are to be met. A letter from engineer is required prior to final approval indicating an inspection and final approval by engineer has been conducted. 1. A minimum of 4 ft. is required to separate bottom of disposal field & bedrock. \* Backhoe profile exposed at least 24 hours to depth of 4 ft. is required

The Health Office shall assume no responsibility in case of failure or inadequacy of a sewage-disposal system, beyond consulting in good faith with the property owner or representative. Free access to the property shall be authorized at reasonable times for the purpose of making such inspections as are necessary to determine compliance with requirements of this law.

to verify ground water depth.

(New)

APPLICATION FOR A PERMIT TO CONSTRUCT, REMODEL, OR INSTALL A SEWAGE DISPOSAL SYSTEM

NAME OF OWNER HEYDEN DEVEL. CORP. HOME PHONE 598-4560 <sup>Chris</sup>  
495-3715 WORK PHONE 495-0630  
ADDRESS OF PROPERTY 9550 BENNISON TER DATE 7/16/92  
LEGAL DESCRIPTION OF PROPERTY LOT 5 RAYBOR SUBDIVISION  
TAX SCHEDULE NUMBER 52220-01-007 SYSTEM CONTRACTOR R4R Ditching PHONE \_\_\_\_\_  
OWNER'S ADDRESS IF DIFFERENT P.O. BOX 88155 C/S 80908  
TYPE OF HOUSE CONSTRUCTION RESIDENTIAL SOURCE AND TYPE OF WATER SUPPLY WELL  
SIZE OF LOT 5 ACRES MAXIMUM POTENTIAL NUMBER OF BEDROOMS 3 204 EASEMENT (yes or no) no  
PERCOLATION TEST RESULTS ATTACHED (yes or no) no 9/24/92

A plot plan and accompanying information are essential; it may be drawn on the back of this application or be attached. Please include by measured distance the location of wells including neighbors' wells, springs, water supply lines, cisterns, buildings, proposed structures, property lines, property dimensions, subsoil drains, lakes, ponds, water courses, streams, and dry gulches. Please show the location of the proposed septic system by directions and distances from actual and/or proposed dwellings, structures, or fixed reference objects. Give complete directions to the property from major highways. (ANSWER QUESTIONS ON BACK OF FORM).

Applicant acknowledges that the completeness of the application is conditional upon such further mandatory and additional tests and reports as may be required by the department to be made and furnished by the applicant for purposes of evaluation of the application; and issuance of the permit is subject to such terms and conditions as deemed necessary to ensure compliance with rules and regulations adopted under Article 10, Title 25, C.R.S. 1973 as amended. The undersigned hereby certifies that all statements made, information and reports submitted by the applicant are or will be represented to be true and correct to the best of my knowledge and belief and are designed to be relied on by the El Paso County Health Dept. in evaluating the same for purposes of issuing the permit applied for herein. I further understand that any falsification or misrepresentation may result in the denial of the application or revocation of any permit granted based upon said application and in legal action for perjury as provided by law.

SIGNATURE

Christian Snyder

HEALTH DEPARTMENT USE ONLY

PERMIT NUMBER 06619 <sup>per septic</sup> RECEIPT NUMBER 5313 DATE TO LAND USE DEPARTMENT 7-17-92 <sup>for</sup>

ABSORPTION AREA 1140 sq ft <sup>1500 gallon per day design</sup> TANK CAPACITY 1500 <sup>gallon</sup> DATE OF SITE INSPECTION 7-22-92

REMARKS: System to be installed per 1990 El Paso County  
regulations, and engineer design. All minimum distances  
are to be met. A letter from engineer is required  
for final approval. indicating an inspection & final approval  
by engineer has been conducted. 1-A minimum of 4' is required  
to separate bottom of disposal field & bedrock.  
Noting 4 bedroom home, provided an increase in septic tank  
size & field absorption is required.

APPLICATION IS APPROVED ( ) DENIED ( ) DATE 7/22/92 ENVIRONMENTALIST J. Nylund

\* Back case profile exposed at least 24 hours to depth of 4' is required to verify ground water depth.

ANSWER THE FOLLOWING ITEMS AND/OR INCLUDE ON PLOT PLAN.

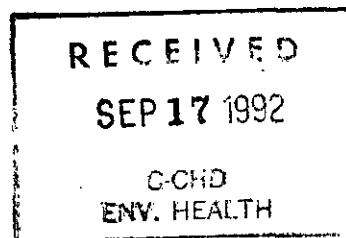
PROPERTY LINES PLOT  
PROPERTY DIMENSIONS PLOT  
LOCATION OF PROPOSED SEPTIC SYSTEM PLOT  
LOCATION OF WELL PLOT  
LOCATION OF ADJACENT WELLS NO  
BUILDINGS PLOT  
PROPOSED BUILDINGS PLOT  
WATER SUPPLY LINE NONE  
CISTERNS NONE  
SPRINGS NONE  
LAKES NONE  
PONDS NONE  
WATER COURSES NONE  
STREAMS NONE  
DRY GULCHES NONE  
SUBSOIL DRAINS NONE

DIRECTIONS TO PROPERTY FROM MAIN HIGHWAYS:

BURGESS EAST TO RAYGOR  
RAYGOR SOUTH TO BENNISON  
WEST ON BENNISON

R & R DITCHING, INC.  
(719) 635-9999  
3030 N. EL PASO  
COLORADO SPRINGS, CO 80907-5454

LEE GRIFFEN  
EL PASO COUNTY HEALTH DEPARTMENT  
501 N FOOTE  
COLORADO SPRINGS CO 80909



16 Sept 92

RE: 9550 Bennison Terrace

On August 28, 1992, R & R Ditching, Inc. dug some profile holes for the septic system at 9550 Bennison Terrace. When we returned on August 30, 1992, there was no water in the holes.

If you have any questions, feel free to call us.

Sincerely,

Nina Thompson

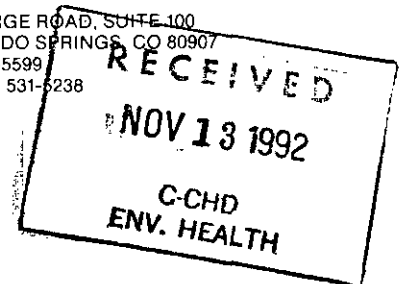
Secretary/Treasurer

September 16, 1992



**ENTECH**  
ENGINEERING, INC.

4720 FORGE ROAD, SUITE 100  
COLORADO SPRINGS, CO 80907  
(719) 531-5599  
FAX (719) 531-5238



Heyden Development  
P. O. Box 88155  
Colorado Springs, CO 80908-8155

Attn: Chris Heyden

Re: Septic System Installation  
9550 Bennison Terrace  
Lot 5, Raygor Subdivision  
El Paso County, Colorado

Dear Mr. Heyden:

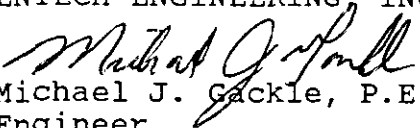
As requested, personnel of Entech Engineering, Inc. have performed a site visit at the above referenced address on September 7, 1992. The purpose of our visit was to observe the installation of the septic system at the above referenced site.

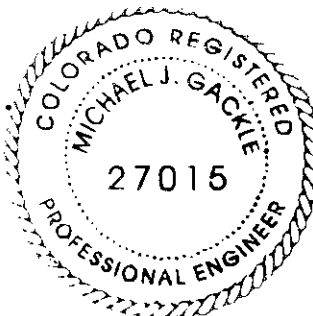
A septic system design was performed by Entech Engineering, Inc. The results are presented in the septic system design letter dated July 10, 1992. The absorption field was sized according to the percolation tests by RMG Engineering, Inc. dated May 20, 1992, Job. No. 11952A.

The septic system consisted of a septic tank, pumping chamber and an absorption field. The absorption field consisted of 6 rows of 8 infiltrators. The infiltrators were installed approximately below the ground surface. Since the absorption field was placed near the ground surface, additional fill material will be required to mound over the septic system to provide adequate coverage. A minimum coverage of 12 inches is recommended. The fill should be graded to allow surface drainage to flow away from the septic system. A minimum slope of a 3:1 is recommended at the edges of the field with a minimum distance between the field and toe of the slope of 12 feet. The septic system was installed in conformance with our recommendations.

We trust that 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.  
  
Michael J. Gackle, P.E.  
Engineer



MJG/dss  
Entech Job. No. 34372

WPLET9/34372



**ENTECH**  
ENGINEERING, INC.

4720 FORGE ROAD, SUITE 100  
COLORADO SPRINGS, CO 80907  
(719) 531-5599  
FAX (719) 531-5238

July 10, 1992

Heyden Development  
P. O. Box 88155  
Colorado Springs, Colorado 80908-8155

Attn: Chris Heyden

Re: Septic System Design  
9550 Bennison Terrace  
Lot 5, Raygor Subdivision  
El Paso County, Colorado

Dear Mr. Heyden:

As requested, personnel of Entech Engineering, Inc. have sized the septic system to be placed at the above referenced site. The septic system recommendations are presented in this letter.

The percolation tests were performed at the above referenced site by RMG Engineers. The results are presented in their letter dated May 20, 1992. At that time the material encountered in the profile hole consisted of a fine to coarse, silty sand with clay. No bedrock was encountered in the bedrock hole. Groundwater was encountered in the profile hole at approximately 4 feet below the existing ground surface. A percolation rate of 33 minutes/inch was determined by RMG Engineers.

Due to the presence of groundwater within 4 feet of the ground surface, it is our recommendation that the absorption field be moved upslope from the profile hole approximately 15 feet. See Figure 1 for proposed location of absorption field. Due to the variable percolation rate shown on the report by RMG Engineers, it is our recommendation that the absorption field be sized based on a percolation rate of 40 minutes/inch. The absorption field at a percolation rate of 40 minutes/inch should be sized to 285 square feet per bedroom. It is our understanding that the structure at the above referenced site will have 4 bedrooms. With a 4 bedroom house, the absorption field should be sized to 1140 square feet. The absorption field should consist of a gravel bed 24 feet wide by 48 feet in length. (See Figure 2.) An alternative to the gravel bed would be the installation of infiltrators. With a reduction of approximately 21 percent, the absorption field may consist of 6 rows of 8 infiltrators. Due to the slope, the infiltrators may be placed parallel to the slope and stepped down the slope. A distribution box would be required to properly distribute the effluent to the individual rows of infiltrators.

Two test pits should be placed in the proposed absorption field area prior to installation to verify that bedrock or groundwater is not present within 4 feet of the bottom of the absorption field.

Heyden Development  
Septic System Design  
9550 Bennison Terrace  
Page Two

The bottom of the absorption field should be placed at the ground surface. The topsoil must be removed. Native soil may be used to mound over the absorption field to provide adequate cover. Gravity flow should be used if possible from the septic tank to the absorption field. If gravity flow cannot be used, a pump and pumping chamber will be required. A 1500 gallon septic tank will be required with a four bedroom house.

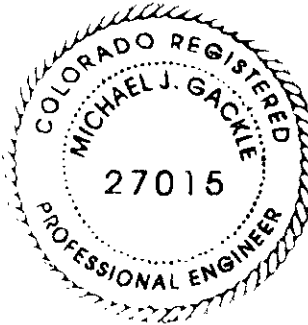
The septic tank and absorption field should be installed in accordance with El Paso County Health Department regulations.

We trust that 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.

  
Michael J. Gackle, P. E.  
Engineer



MJG/ss

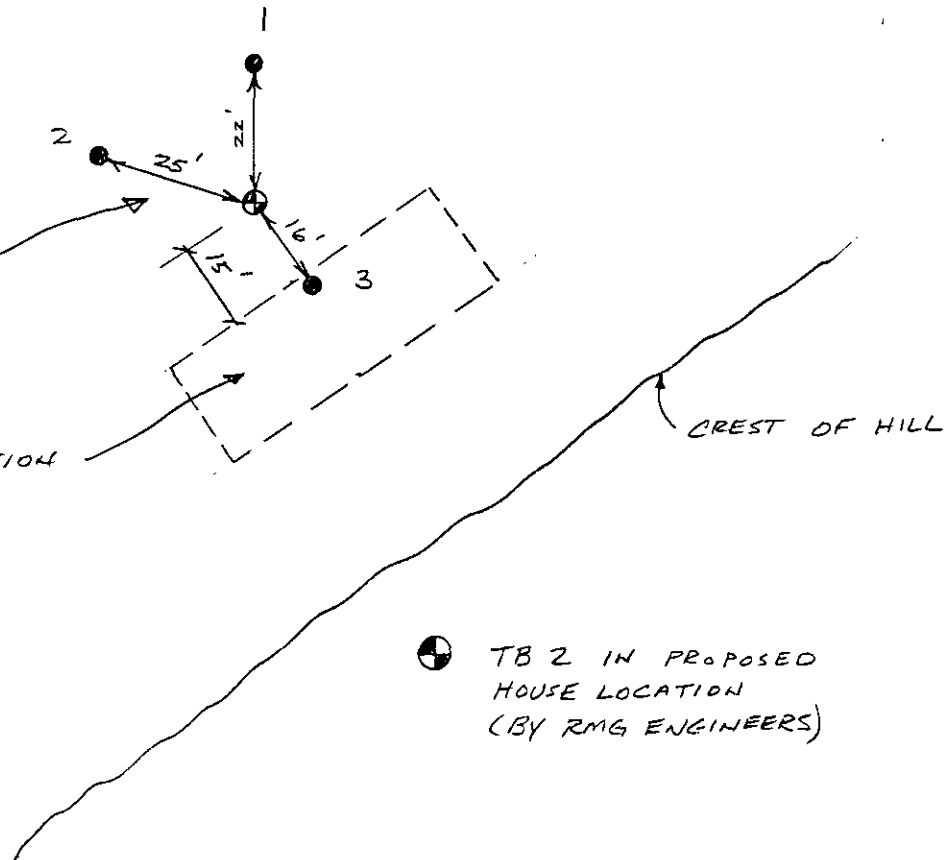
Entech Job No. 34372  
WPLET7/34372





PERCOLATION TEST  
AREA BY RMG  
ENGINEERS.

LOCATION OF  
PROPOSED ABSORPTION  
FIELD.



**ENTECH**  
ENGINEERING, INC.

ABSORPTION FIELD  
LOCATION PLAN

Drawn MJG	Date 7-10-92	Checked	Date
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Job No.

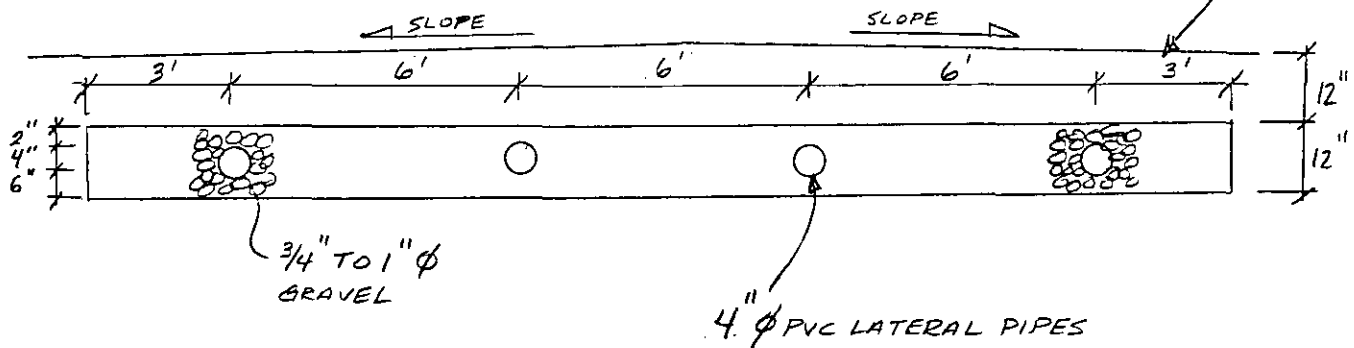
34372

Fig No.

1

SLOPE GROUND SURFACE  
IN AREA OF ABSORPTION  
FIELD TO ALLOW WATER  
TO FLOW AWAY FROM  
ABSORPTION FIELD.

PROVIDE ADDITIONAL SOIL  
AND MOUND OVER  
ABSORPTION FIELD.



6 ROWS OF 8 INFILTRATORS  
MAY BE USED IN PLACE OF  
THE GRAVEL BED.



**ENTECH**  
ENGINEERING, INC.

# ABSORPTION FIELD CROSS SECTION

Drawn  
MJG

Date  
7.10.92

Checked

Date

Job No.

34372

Fig. No.

2

501 North Foote Avenue  
Colorado Springs, CO 80909-4593  
(303) 578-3125

(New)

APPLICATION FOR A PERMIT TO CONSTRUCT, REMODEL, OR INSTALL A SEWAGE DISPOSAL SYSTEM

NAME OF OWNER HEYDEN DEVEL. CORP. HOME PHONE \_\_\_\_\_ WORK PHONE 495-0630  
ADDRESS OF PROPERTY 9550 BENNISON TER DATE 7/16/92  
LEGAL DESCRIPTION OF PROPERTY LOT 5 RAYBOR SUBDIVISION  
TAX SCHEDULE NUMBER 52220-01-007 SYSTEM CONTRACTOR R4R Ditching PHONE \_\_\_\_\_  
OWNER'S ADDRESS IF DIFFERENT P.O. BOX 88155 C/S 80908  
TYPE OF HOUSE CONSTRUCTION RESIDENTIAL SOURCE AND TYPE OF WATER SUPPLY WELL  
SIZE OF LOT 5 ACRES MAXIMUM POTENTIAL NUMBER OF BEDROOMS 3 BASEMENT (yes) or no)  
PERCOLATION TEST RESULTS ATTACHED (yes) or no)

A plot plan and accompanying information are essential; it may be drawn on the back of this application or attached. Please include by measured distance the location of wells including neighbors' wells, springs, water supply lines, cisterns, buildings, proposed structures, property lines, property dimensions, subsoil drains, lot ponds, water courses, streams, and dry gulches. Please show the location of the proposed septic system by direction and distances from actual and/or proposed dwellings, structures, or fixed reference objects. Give compass directions to the property from major highways. (ANSWER QUESTIONS ON BACK OF FORM).

Applicant acknowledges that the completeness of the application is conditional upon such further mandatory additional tests and reports as may be required by the department to be made and furnished by the applicant purposes of evaluation of the application; and issuance of the permit is subject to such terms and conditions deemed necessary to ensure compliance with rules and regulations adopted under Article 10, Title 25, C.R.S. 1, as amended. The undersigned hereby certifies that all statements made, information and reports submitted by applicant are or will be represented to be true and correct to the best of my knowledge and belief and are designed to be relied on by the El Paso County Health Dept. in evaluating the same for purposes of issuing the permit application herein. I further understand that any falsification or misrepresentation may result in the denial of application or revocation of any permit granted based upon said application and in legal action for perjury provided by law.

SIGNATURE

*Christian Heyden*

HEALTH DEPARTMENT USE ONLY

PERMIT NUMBER \_\_\_\_\_ RECEIPT NUMBER \_\_\_\_\_ DATE TO LAND USE DEPARTMENT 7-17-92  
ABSORPTION AREA \_\_\_\_\_ TANK CAPACITY \_\_\_\_\_ DATE OF SITE INSPECTION \_\_\_\_\_

REMARKS:

APPLICATION IS APPROVED ( ) DENIED ( ) DATE \_\_\_\_\_

ENVIRONMENTALIST \_\_\_\_\_