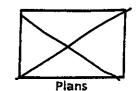
B



B-127718

Permit Number

34285

**Street Number** 

KRUSE RANCH RD

Street Name

TIM

Community Code

109-030-003

APN

TEX

100VI DULTON

\$473025

\$293x25

	_		
INSPECTION RECORD	DATE	NAME	DEMONS.
FOUNDATION	DATE	NAME	REMARKS 4
FORMS / SETBACK	<del></del>		
FOOTING	96-99	\$ SB	
WALLS			
UFER GROUND			
CAISSONS / PIERS		< 5B	
SLAB	9-15-4	<u> </u>	
MASONRY RETAINING WALLS FOOT (N.G.	9.12.00		
Why	2/27/95	GAG	
FIREPLACE	-4.0.F1		
FOOTING			
HEARTH / PROTECTION			
THROAT	<del> </del>	<u> </u>	
CHIMNEY	+	<del> </del> _	
UNDERFLOOR / SLAB	<del>                                     </del>	<del></del>	
WF ELECTRICAL			
U/F MECHANICAL	9-15-9	55B	
<u>U/F PLUMBING</u>		\	
UF FRAMING	<del> </del>	<del> </del>	
<u>U/F INSULATION</u> - DIAPHRAGMS	<del>                                     </del>	<del> </del>	
SHEAR WALLS	1		
SUBROOF NAILING			
SIDING / SHEATHING			
HOLD DOWNS	ļ		
STUCCO / PLASTER LATH	<del> </del>	ļ	
SCRATCH	<del> </del>	<del> </del>	
	<del> </del>		
2017	11-19.95	B. Can	
- CELECTRICAL	u	ü	
HANICAL	LI LI	•1	
CON ENAME	u	4	
SMOKE DETECTORS	<del>  "</del>		
INSULATION			
WALLBOARD	1-29-96	6 kours	
TUB / SHOWER PAN		-	
SUSPENDED CEILING			
ROUGH ELECT	<u> </u>		
EXITING	<del> </del>	*	
STAIRS / HANDRAILS			
<u>RAMPS</u>			
CORRIDORS / DOORS	<del>                                     </del>		Program 7-11-95 Mg
HANDICAP REQS. ENERGY REQS.	<del> </del>	<del></del>	
TEMP. OCCUPANCY	<del>  </del>	<del></del>	
TEMP. ELECTRIC		<del></del>	
TEMP, GAS			
ELEC. METER AUTH.	11-29-95	Bilana	
ELEC. SERVICE EQUIP.	<b> </b>		
PANEL BOARDS / SERVICE GAS METER AUTH.	<del></del>		
GAS SERVICE EQUIP.	<del>  </del>	<del> </del>	
GAS PRESSURE TEST	<del>  </del>		
HOUSE			
YARD	1-29-90	Blance	
MANUE MARE FOUNDATION	<b></b>		
MANUF, HOME FOUNDATION MANUF, HOME INSTALLATION			FIDE INSU DECID
CONTINUITY	<del></del>		FIRE INSP. REQ'D .
STAIRS / SKIRTS			<del></del>
RIDGE BOLTING			R
SWIMMING POOL	<del>  </del>		t
PRE-GUNITE PRE-DECK	<del></del>	<del></del>	
PRE-PLASTER / FENCE		<del></del>	CLEARANCES
	-	<del></del>	FIRE DEPT.
GRADING FINAL		<del></del>	HEALTH DEPT.
			PLANNING DEPT.
ELECTRICAL FINAL			SANITATION DEPT.
AL FINAL			N.C.A.P.C.D.
(A) FINAL		·· <u> </u>	FINAL BLAN DETENTION DECUMPS
//_			PLAN RETENTION REQUIRED YES D NO/Y
	· · · · · · · · · · · · · · · · · · ·		YES D NO/D
<b></b> -I. /	•		<b>\</b>

COUNTY OF SONOMA PUBLIC HEALTH DEPARTMENT PHONE (707) 525-6500	APPLICATION FOR PRIVATE SEWAGE DISPOSAL PERMIT	Ż	APPLICATION FOR PUBLIC HEALTH CLEARANCE FOR:	R PUBLIC NCE FOR:
o es	This permit application must be aigned on all 3 signeture lines by the seme person (i.e., contractor or owner/builder). A letter of authorizzaton from owner must accompany this explication if agent is signing on owners behalf.	the seme person (I.e., must accompany this	Col ho	house
APPLICANT: PLEASE PRESS HARD (USE BLACK INK), FILL IN BETWEEN HEAVY LINES ONLY AND SEE REVERSE SIDE FOR INSTRUCTIONS.  A	SA STATING ACTIONS OF SOURCE	31.355	NEW	REPAIR
THE ANDRESS JA285 KRUYE RANCH	V (IIVAC) JANIE	138041.7		
MEADER CHOSS STREET HAUSE - SEALVEN	MAILING ADDRESS 74285	KRUSE	RANKHI	RD
103-650-03	17/5/20	STATE CA ZIP 95	54 J PHONE	749. 7494
	INSTALLATION WILL SERVE:			
STATE ZIP	RESIDENCE APARTMENT HOUSE	E COMMERCIAL	MOBILE HOME	OWE
CONTRACTOR POHAD & CA	MOTEL OTHER BUILDII	BUILDING CONST. NEW	ADDN/ALTER []	
CX 1 X(1 X 4 + A 1) CX O NO.	NO. OF TOTAL NO. UNITS: OF BEDROOMS:	WATER PUBLIC   SUPPLY: PRIVATE	LOT SZE:	×
APPLICANT AGREES THAT:  1. HEALTAN TO SPARTMENT ENVIRONMENTAL HEALTH SPECIALIST AND ENGINEERS OF ORBINION OF 24 HOURS PRIOR TO COMMENCING WORK.  2. HEALTH DEPARTMENT ENVIRONMENTAL HEALTH SPECIALIST AND ENGINEERS OR CONSULTING ENVIRONMENTAL HEALTH SPECIALON, WHEN INDICATED, WILL BE OBTAINED PRIOR TO	TERMS OF PERMIT MALIM OF 24 HOURS PRICH TO COMMENCING WOR INSULTING ENVIRONMENTAL HEALTH SPECIALISTY	YK S INSPECTION, WHEN INE	ICATED, WILL BE OF	STAINED PRIOR TO
COVERING THE SYSTEM.  THE JOB CARD AND A COPY OF THE APPROVED SEWAGE DISPOSAL SYSTEM DESIGN SHALL BE AVAILABLE AT THE JOB SITE AT ALL TIMES.  THE JOB CARD AND A COPY OF THE APPROVED PLAN WITHOUT PRIOR APPROVAL OF THE HEALTH OFFICER WILL BE CAUSE FOR STOPPING WORK UNTIL THE CHANGES ARE FULLY JUST HE SEPTIC TANK MUST BE LA.PM.O. APPROVED.  PRIOR TO AUTHORIZING OCCUPANCY OF ANY BUILDING WITH AN ENGINEER OF CONSULTING ENVIRONMENTAL HEALTH SPECIALIST DESIGNED SYSTEM, A SIGNED SY CERTIFYING THAT THE SYSTEM WAS INSTALLED IN COMPLIANCE WITH THE SUBMITTED TO THE PUBLIC HEALTH OFFICER.  THIS PERMIT IS BUBLECT TO REVOCATION IF FOUND TO BE IN NONCONFORMANCE WITH SONOMA COUNTY CODE OR STANDARDS OF THE PUBLIC HEALTH DEPARTMENT. THIS PERMIT IS NOT TRANSFERABLE.	'EM DESIGN SHALL BE AVAILABLE AT THE JOB SITE AT ALL TIMES. HE HEALTH OFFICER WILL BE CAUSE FOR STOPPING WORK UNTIL THE CHANGES ARE FULLY JUSTIFIED AND APPROVED.  J. S.	ies. Ntil the Changes are Designed System, a Si Lth Officer. The public Health depa	Fully justified an Gned ŝtatement i Natiment.	ND APPROVED. BY THE DESIGNER
IT IS UNDERSTOOD THAT THE ISSUANCE OF A PERMIT IN NO WAY INDICATES THAT A GUARANTEE OF PERFECT AND INDEFINITE OPERATION OF THIS SYSTEM IS MADE BY THE COUNTY OF SONOMA PUBLIC HEALTH DEPARTMENT AND THAT THE OWNER IS REQUIRED TO MAKE ANY REPAIRS NECESSARY TO CONFINE SEWAGE BELOW THE SURFACE OF THE GROUND, APPROVAL IS BASED UPON INFORMATION SUBMITTED BY THE APPLICANT, FIELD CONDITIONS AT VARIANCE WITH APPLICATION MAY VOID PERMIT.	OF PERFECT AND INDEFINITE OPERATION TO CONFINE SEWAGE BELOW THE SURFAC PERMIT.	OF THIS SYSTEM IS MADI	EBY THE COUNTY O PROVAL IS BASED UI	F SONOMA PUBLIC PON INFORMATION
I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND THE INSTRUCTIONS ON THE REVERSÉ SIDE AND STATE THAT THE ABOVE IS CORRECT AND AGREE TO COMMENCED WITHIN ORDINANCES AND STATE LAWS REGULATING CONSTRUCTION OF PRIVATE SEWAGE DISPOSAL SYSTEMS. THIS PERMIT SHALL EXPIRE BY LIMITATION IF WORK AUTHORIZED IS NOT COMMENCED WITHIN 180 DAYS.  SIGNATURE OF APPLICANT	EWAGE DISPOSAL SYSTEMS. THIS PERMIT SHALL EXPIRE BY LIMITATION IF WORK AUTHORIZED IS NOT COMMENCED WITHIN SHALL EXPIRE BY LIMITATION IF WORK AUTHORIZED IS NOT COMMENCED WITHIN SHALL STATES AND STATES OF STATES OF STATES OF STATES OF STATES OF APPLICANT	NBOVE IS CORRECT AND AG	AGREE TO COMPLY HORIZED IS NOT CC	WITH ALL COUNTY
CONTRACTOR'S LICENSE LAW CERTIFICATE  (COMPLETE ETHER A OR B)  (COMPLET A OR B)  (OMPLETE OTHER A OR B)  (OMPLETE OTHER A OR B)	disposal permit cartiles as follows:  WORKMEN'S COMPENSATION CERTIFICATE  (One or two must be completed)  1. A comparise effective certificate of Workman's Compensation Insurance coverage is	TION CERTIFICATE	si egarage is	001342D SEP TANK 37
	:	alth Department.		- 10mm - 10mm - 20mm -
B. THE APPLICANT IS EXEMPT FROM THE PROVISIONS OF THE CONTRACTORS  LICENSE LAW FOR THE FOLLOWING REASONS:	is currently in force.  Is currently in force.  1 A / 1 D/CM and the work for which this permit is issued is hall not anniew are performents of the work for which this permit is issued is hall not anniew are performents to become subject to the workments compen-	1 A 1 G	Portional not sent company	# #
1) OWNER/BUILDEH ☐ 2) OTHER (EXPLAIN) ☐ X				* ***
A APPLICANT	APPLICANT			~
TOTAL DATE 10-19. 84 APPR	CONSTRUCTION APPROVED BY	DATE		
EN APPROVED THIS IS YOUR PERMIT	Site ID Number 3135		GTO	

COUNTY OF SONOMA

:‡

new partial perimeter foundation has been installed around the excavated area to support a cripple wall, this in turn supported the existing first floor. Two large interior beams have been installed to support the upper floor joist clear span above this new area. The remaining existing foundation is wood post supported on concrete piers.

SCUPE OF WORK THIS PERMIT CONSTRUCTION WITHOUT PERMITS APPARENTLY INCLUDES THE FOLLOWING:

- 1. Conversion of the underfloor area to storage space.
- 2. Added doors, windows, and interior partition walls in the storage space.
- 3. New wiring for electrical circuits for lighting and outlets.
- 4. Construction of a new retaining wall and partial perimeter foundation. 5. Construction of a new underfloor slab.
- 6. Reinforcement and additional bracing of the existing post and pier

# THE FOLLOWING INTERNAL MEMOS APPLY FOR STORAGE AREAS:

- 1. Memo 30.40 section B item II applies which states:
  - [a] Code complying egress is required.
  - [b] No minimum ceiling height is required.
  - [c] Minimum ceiling lights and convenience outlets are allowed. Specifically, one overhead switched light and one ground fault protected receptacle will be allowed in this space.
  - [d] The wall interior must remain unfinished.

## THE FOLLOWING MUST BE ADDRESSED:

Permits are required for all construction without permits.

- 1. First, prepare a plot plan that details dimensions of subject structure including the conversion from property lines and other structures on the property. A floor plan that documents uses of all areas in the building
  - [a] Take the plot plan and floor plan to the Sonoma County Planning Department to discuss zoning regulations for this property.
  - Property [b] Take the plot plan and the floor plan to the Sonoma County Environmental Health Department to determine requirements to legalize of the converted area.
- 2. Although not applicable to this project, all square footage converted to living space and added living space must meet California State energy efficiency requirements. Windows must be certified and labeled showing compliance with air infiltration requirements, and minimum insulation requirements must be met.

Date 2.16.94

- 3. All wiring must meet minimum requirements of the latest edition (1990) of the National Electrical Code (ie: convenience outlet spacing, GFCI's).
- 4. If it is to remain, the <u>retaining wall</u> at the uphill side of the residence must be legalized through the permit process. The foundation <u>for the conversion and the retaining wall</u> was not inspected by this department. In order to approve this work, an inspection and a written report from an independent testing lab will be required to verify that the foundation meets the prescriptive requirements of the Uniform Building Code, Chapter 29. Also, a full set of drawings are required as well as inspection of all features of construction to verify code compliance.
- 5. Modification of the existing foundation bracing will require review by licensed professional. The following section from the Building Code shall apply for the bracing only.

From the Uniform Building Code (Chapter 1, Section 104 (b)):
"Additions, alterations or repairs may be made to any building without requiring the existing building or structure to comply with all the requirements of this code, provided the addition, alteration, or repair conforms to that required for a new building or structure"...."Additions or alterations shall not be made to an existing building or structure when such existing building or structure is not in full compliance with the provisions of this code except when such addition or alteration will result in the existing building or structure being no more hazardous based on life safety, fire safety, and sanitation than before such additions or alterations are undertaken".

See following pages for steps required to obtain permits for construction without permits. Note that, if required, Environmental Health Department and/or Local Sanitation Department (whichever is applicable), and Planning Department approvals should be obtained FIRST.

#### SITE REVIEW INFORMATION

As mapped on the most recently adopted Flood Insurance Rate Map (FIRM), revision dated 4/2/91, by the Federal Emergency Management Agency (FEMA): Property [] IS [X] IS NOT located in a "SPECIAL HAZARD FLOOD AREA". Structure [] IS [X] IS NOT located in a "SPECIAL HAZARD FLOOD AREA". Structure [] IS [X] IS NOT located in a "FLOODWAY". Structure is in the North Sonoma County Air Pollution Control District. Building site slope is approximately 25%, soil appears to be original.

### PLEASE PRESENT THIS REPORT WHEN APPLYING FOR PERMIT(S).

You are advised to verify the feasibility of the project with all applicable departments prior to development of plans. Referrals to the following Agencies/County Departments are required:

Inspector B Lana

Data 2.16.94

Property Report # 25

	•					
conoma	County	Environmenta	! Health	Depar	tment	and/or
30110	<b>.</b>				14	- h 1 - 1
Local	Public	Utility/Sewer	DISTRICT	. (as	apping	sable)

- Sonoma County Planning Department [ ] Sonoma County Fire Marshal
- r | Sonoma County Public Works Department [ ] Sonoma County Water Agency
- [X] Permits are required. Please present this survey at the Sonoma County Building Department and obtain permits for the following as applicable:
  - [X] Building [ ] Plumbing [X] Electrical [ ] Mechanical [ ] Grading
- [X] Three copies of code-complying construction quality plans are required for plan check prior to permit issuance. Energy compliance data is also required if heated or cooled space is being added. Provide <u>AT LEAST</u> the following as applicable:
  - [X] Plot Plan [X] Foundation Plan [X] Floor Plan(s) [X] Elevations
  - [X] Floor Framing Plan(s) [] Roof Framing Plan [X] Cross Section(s)
  - [X] Structural Detail(s) [ ] Manufactured/Mobile Home Setup Manual
- NOTE: Additional drawings may be required by plan checker or building inspector to fully document/describe scope of work and design. Plans are to reflect corrections needed, if any, documented in this survey report.
- [X] Plans must be stamped and signed by a California licensed professional (Architect or Civil Engineer) due to;
  [X] Structural analysis required. ( ) \( \sigma \) \( \sigm
- [ ] Permits may be issued without plans subject to field inspection.
- [X] The foundation will require footing width and depth and location of reinforcing steel verified.
- [X] Structure and/or foundation do not meet conventional framing requirements of Uniform Building Code, Chapter 25, and must be professionally engineered per State of California Professional Engineer's Act.
- [ ] Federal flood regulations apply. A summary of regulations is attached.
- [ ] Additional site review is required.

This report is not intended to be an all inclusive list of requirements. The inspection process after building permits are obtained may reveal additional code violations or hazards requiring correction. This report is not a permit to do work nor does this report approve work done without required permits or inspections.

THIS IS NOT A PERMIT

Inspector B Lana

Date 2.16.94



### BUILDING INSPECTION DEPARTMENT COUNTY OF SONOMA

575 ADMINISTRATION DR., ROOM 114 A SANTA ROSA, CALIFORNIA 95403 TELEPHONE 527-2221

THEODORE J. MORRISON DIRECTOR OF BUILDING INSPECTION SERVICES

CHIEF BUILDING INSPECTOR 6. TED THORHAUG SENIOR CIVIL ENGINEER

PROPERTY REPORT

Jay Folberg

2508 McAllister St

San Francisco, Ca 94118

Subject Address:

2681 North Fitch Mt. (A/P # 087-091-07)

Healdsburg, Ca 95448

REASON FOR REPORT: CONSTRUCTION WITHOUT PERMITS - REMODEL UNDERFLOOR SPACE OF THE SINGLE FAMILY DWELLING. Available Building Department permit history is attached.

Currently, two structures exists on this property. A single family residence located down slope and a upper detached garage/workshop located nearest North Fitch Mountain Rd. This report shall address the single family dwelling only. No inspection was made on the detached garage. The history of the detached garage is as follows:

The detached garage/workshop was constructed under permit B-59753 and was expired in December of 1984. On October 1, 1990 violation V-099048-B was issued for conversion of the garage to a dwelling. This violation was recorded against the title of the property on October 22, 1991. 110259 was issued to clear the violation and final the old permit. permit was completed on May 18, 1992 and subsequently the recordation was removed.

On September 2, 1993 violation V-069383 was issued for once again converting the detached garage to a living unit. This violation is currently in Notice and Order and has been referred to Sonoma County Counsel for legal action.

From county records, subject structure was constructed in approximately 1930 for use as a single family dwelling. Records indicate the structure consisted of a single story with two bedrooms and one bath. Sometime between 1958 and 1968 a portion of the open underfloor was framed and partially enclosed. This area was noted as an unheated enclosed deck. During an onsite inspection conducted February 11, 1994, this space is still in the original condition. No permits or inspections were required for residential construction completed before 1963.

During the on site inspection, a portion of the underfloor space was in progress of being remodeled. Per the owners on-site representative, this space will be used for storage only.

The rough framing was complete and no finish work had yet begun. A new 8 foot high (as measured from a newly poured slab) retaining wall has been constructed to allow room for this addition. The area below the wall has been excavated and a new slab had been poured. The retaining wall also acts as the foundation for the existing upper floor. Approximately 20 feet uphill of this new retaining wall is the converted garage/workshop. Due to excessive slope, the garage/workshop appears to be exerting a surcharge on the new retaining wall.

Date 2.16.94

Property Report ===



### **COUNTY OF SONOMA**

# PERMIT AND RESOURCE MANAGEMENT DEPARTMENT BUILDING AND LAND DEVELOPMENT DIVISION

575 Administration Drive, Room 114A Santa Rosa, California 95403 Telephone (707) 527-2221 Fax (707) 527-3767

October 28, 1994

Mr. David Brown 34285 Kruse Ranch Road Cazadero CA 95421

RE:

Geological Report for Plan Check # P-31254/SR # 127614

34285 Kruse Ranch Road, Cazadero CA

APN 109-030-03

Dear Mr. Brown:

A site review has been completed as the first step in processing your proposal for construction at the above address. This site is located in a fault hazard area designated by the Alquist-Priolo Special Studies Zones Act of 1972. These mapped zones include potentially active traces of geologic faults.

As required by the Zones Aot stated above, in order to continue processing your building permit request, the Building Inspection Section must receive from you three copies of a geological report. The report must also be prepared by a geologist registered by the State of California.

Further, the geological report submitted by your consultant is subject to review by a geologist retained by this department. Following submittal of the report, an application and a fee are required in order to initiate the process.

Upon receipt of the report, we will contact our geologist to obtain an estimate of the costs associated with this mandated review.

If you have any questions, please feel free to call me at (707) 527-2221.

Respectfully,

Don Yerbig

Building Inspector II

DY:at

CC:

Mr. Ed Scott

f: # P-31254/# 127164

okembs boat

### CURTIS & TURK, INC.

803 HEALDSBURG AVENUE HEALDSBURG, CALIFORNIA 93448 707-433-4808

> 93-039 May 19, 1994

Jay Folberg / Diana Taylor 2508 McAllister Street San Francisco, Ca. 94118

n " "

Re: Sonoma County Building Department Property Report No. 123159 Retaining / Foundation Wall

Jay / Diana:

7

On May 18, 1994 I made a detailed observation and measurements of the retaining / foundation wall referred to in the subject Property Report. Enclosed find a floor plan, ceiling plan and elevations of said wall.

The wall is 8" thick and of sound concrete. It has been in place for more than 10 years and is true and plumb. A few vertical +/- hairline shrinkage cracks were observed. There are no stress cracks visible. A No. 4 rebar was observed at an air pocket. This, combined with results from a metal detector, leads me to believe that within the wall there is a 6" x 6" grid of No. 4 bars in the lower 1/3 of the wall, and a 12" x 12" grid of No. 4 bars in the upper 2/3.

The major load on this wall is 6 1/2 feet of earth which is retained by the southerly portion of the wall. This southerly portion is laterally supported at it's ends by the easterly and westerly portions thereof. The length to height ratio is 2.5. The bottom of the wall is laterally supported by an existing concrete floor slab.

As you can see from the plans, there is a small cripple wall atop the retaining / foundation wall. These walls are connected with 1/2" anchor bolts at 40" o.c. Some lateral support is available at the top of the wall through the two ceiling beams which butt into the cripple wall. This support could be made more effective by nailing the 2 x 10 members of the ceiling beams to the 5 x 5 member, and toenailing through the 2 x 10's into the ceiling joists above.

The last paragraph on page 1 of the Subject Property Report refers to excessive slope and the garage / workshop being 20' uphill. Perhaps I am confusing this with another area on the property, but with respect to the wall I am discussing herein, the

slope behind the wall is approximately 15% and the garage / workshop is 56' away, contributing no surcharge at all. The structure above is single story wood frame, not contributing any unusual loads.

Enclosed find two photographs, one showing the southerly retaining / foundation wall: the other, taken from the east side of the residence, shows a portion of the westerly retaining / foundation wall (through the door), and that portion of the structure above.

Based on the above measurements and observations, and particularly on the fact that this wall has been in place for over ten years with no signs of distress, I find said wall to be completely satisfactory for it's intended purpose; that being to support the earth behind and the structure above.

No. 28812

Dog. 12-51-04

PROFESSIONAL

SERVICE OF CALIFORNIA

SERVICE OF CALIFORNIA

PROFESSIONAL

SERVICE OF CALIFORNIA

Yours Truly,

Gordon Meininger, P.E.

GM:1h encl.

cc: Rick Kolb

## Vinson Engineering

1221 High School Rd. Sebastopol, CA 95472

Phone /Fax (707) 824-1134

DV

Date 11/1/94

Bath/ Pump House for David Brown 39285 Kruse Ranch Rd. Cazadero, CA

Job # 94094

1 of 2



Personalized Engineering Support

DESIGN CRITERIA

BEAM DESIGN ONLY

Uniform Building Code - 1991 Edition

Lateral Loads-

<u>Wind</u> = 22.4 psf [Exposure "C", 80 MPH, (0-15')]

 $\underline{\text{Seismic}} = \underline{0.183} \text{ xW (Zone IV)}$ 

### **Vertical Loads**

 Dead
 Live

 Roof (4:12 comp)
 14 psf
 16 psf

 Floor (wood)
 10 psf
 60 psf

 Exterior Walls (wood)
 10 psf
 -----

### Foundation Design

Vinson Engineering has not made a field review of the building site and is not responsible for the general site stability or soil suitability for the proposed project. A review by a soil engineer or geologist may be desirable by the owner.

Foundation design is based on minimum footing dimensions as set forth in **Table 29A** and **B** of **Chapter 29** in the *Uniform Building Code*. Assume Class 5 soil with allowable soil bearing pressure of 1000 psf and a constant expansion index less than 20.