B

Type

✓

Plans

BLD09-1336

Permit Number

1733

Street Number

SKILLMAN LN

Street Name

PET

Community Code

048-091-003

APN

COUNTY OF SONOMA
PERMIT AND RESOURCE MANAGEMENT DEPARTMENT

2550 VENTURA AVENUE, SANTA ROSA, CA 95403-2829
(707) 565-1900 FAX (707) 565-1103

Building Permit Invoice: BLD09-1336

Project Address: 1733 SKILLMAN LN PET
Cross Street: FAIR AVE
Printed: June 03, 2009
Initialized by: BDAVIS
APN: 048-091-003
Activity Type: B-BLD 801
Description: RENOVATE EXISTING TANK HOUSE AND CHANGE OF
Res/Com: R
Insp Area: 03
Std/Quick: Q
Site Review File #:
Fire District: RANCHO ADOBE FIRE
Site Review Fees Paid: $0.00

Owner: GOLTERMANN JOHN K C
C/O GOLTERMANN REAL ESTATE
316 PETALUMA BLVD S
PETALUMA CA 94952

Applicant: GOLTERMANN JOHN K C
C/O GOLTERMANN REAL ESTATE
316 PETALUMA BLVD S
PETALUMA CA 94952
707 753 1111

Valuation:

Occupancy	Type	Factor	Sq Feet	Valuation
Dwellings	Residential Deck	11.82	75	$886.50
Dwellings	DWEL-Type V - Wd Frme	99.37	244	$24,246.28
	Totals...		319	$25,132.78*

Fees:

Item#	Description	Account Code	Tot Fee	Prev. Pmts	Cur. Pmts
50	S.M.I.P. RESIDENTIAL	327023-4040	2.51	.00	.00
52	CA BLDG STANDARDS SB1473	327031-4040	2.00	.00	.00
60	BLDG PERM PLAN CHECK FEE	025015-1341	421.72	104.37	.00
122	ELECTRICAL FEE	025015-1341	67.00	.00	.00
123	MECHANICAL FEE	025015-1341	67.00	.00	.00
124	PLUMBING FEE	025015-1341	67.00	.00	.00
132	BUILDING PERMIT FEE	025015-1341	671.95	.00	.00
140	TECH ENHANCE FEE	025015-4040	15.31	2.73	.00
145	PLAN ADMIN FEE	025015-221-0	100.79	.00	.00
220	VIO. PENALTY FEE (BLDG)	025015-1600	700.47	.00	.00
221	VIO. INVEST. FEE (BLDG)	025015-4114	233.49	.00	.00
366	CLEARANCE OFFICE REVIEW	025015-1342	78.00	78.00	.00
735	NPDES - BUILDING	025015-1350	67.20	.00	.00
1165	ZONING PERMITS W/O D.R.	025015-3829	91.00	91.00	.00
			$2,585.44	$276.10	

Total Fees: $2,585.44
Total Paid: $276.10
Balance Due: $2,309.34

"**Refunds** of fees paid may be made pursuant to Section 108.6 of Appendix 1 of the California Building Code and adopted model codes, subject to the following: 1) 100% of a fee erroneously paid or collected. 2) 90% of the plan review fee when an application for a permit is withdrawn or canceled or expires or becomes void before any plan review effort has been expended. No portion of the plan review fee shall be refunded when any plan review effort has been expended. 3) 90% of the building, plumbing, electrical, and/or mechanical fee may be refunded when a permit is withdrawn, or cancelled or expires or becomes void before any work was done and before any inspections are performed. No portion of these fees shall be refunded when any work was done and/or any inspections have been performed. 4) Application for refund must be made within one year of the date the fee is paid."

PAYMENT FEES
$ 2309.34
JUN 0 3 2009
PERMIT AND RESOURCE MANAGEMENT DEPARTMENT COUNTY OF SONOMA

When validated below, this is your receipt.
This Building Permit shall EXPIRE

Miller Pacific
ENGINEERING GROUP

504 Redwood Blvd.
Suite 220
Novato, California 94947
T 415 / 382-3444
F 415 / 382-3450

December 5, 2008
File: 1561.01altr.doc

K.C. Goltermann
316 Petaluma Boulevard South
Petaluma, California 94954

Re: Foundation Recommendations
Residential Remodel/Repair
1663 Skillman Lane
Sonoma County, California

Mr. Goltermann:

Introduction

This letter summarizes our geotechnical evaluation and foundation recommendations for the planned remodel and repair of an existing single family residence located at 1663 Skillman Lane in Sonoma County. This letter summarizes our geotechnical discussion and recommendations for the project.

Project Description

The existing residence includes a single-family craftsman-style farm house on a parcel that gently slopes to the west. The house consists of an original living space and a later addition on the west side of the original structure. The eastern (original) portion of the house is founded on 8" x 8" post piers and the western portion is founded on 6" wide, shallow spread footings. Piers and footings have approximately 6-inches embedment into site soils. Ground beneath the house is relatively flat or slopes gently to the west. Based on our site observations, vertical clearance between current ground and bottom of floor joists is about one foot.

The proposed remodel project will include replacement of rotting wood on the existing residence, new foundations, and overall restoration to the original craftsman-style design.

Regional Geology

Upon review of available geologic maps, the Wilson Grove Formation (Twg) is mapped within the parcel area. This unit is described as light gray to light yellow brown fine-grained marine sandstone. This rock unit generally provides good foundation support for residential construction and excavation conditions are not expected to be difficult. Regional maps indicate that your home is located about six miles west of the Rodgers Creek Fault.

Subsurface Exploration and Laboratory Testing

We explored subsurface soil conditions with two shallow test pits, one within each of the repair areas where new foundations are proposed, to maximum depths of approximately 4 feet. We logged the pits to describe the soil and bedrock conditions encountered. The exploratory pits generally confirmed the mapped geology. The subsurface profile was relatively consistent and consisted of approximately two feet of loose gravelly sand over weathered sandstone (Twg) bedrock. The bedrock is completely weathered and friable at its contact with the soil above and becomes progressively stiffer with depth.

Geotechnical Evaluation and Recommendations

Conclusions: We judge that the site is suitable for the planned remodel from a geotechnical standpoint. Based on the mapped geology and limited subsurface exploration, the site would classify as Site Class S_C, dense soil and soft rock, if seismic design per 2007 CBC is employed. The primary geotechnical engineering concern is providing uniform bearing support for new foundations on stiff native soils or weathered rock. We note that any time new or repaired foundations are placed directly adjacent to older construction, some potential for differential movement under static or seismic loading will exist. Given the anticipated loading conditions and site soil/rock conditions observed, our recommended geotechnical design criteria provided below are intended to minimize future differential. However, some cosmetic distress could occur.

New/Repaired Foundations: Repair of existing foundations can be either by replacement or "sistering" new foundations with the old. Where existing foundations are to stay in-place next to new, doweling new to old should be considered to minimize differential movement between old and new.

New and/or repaired foundations should be shallow strip or spread footings bearing uniformly on the shallow stiff native soil/weathered rock. Geotechnical design criteria for foundations are provided in Table A, below.

TABLE A
FOUNDATION DESIGN CRITERIA
1663 SKILLMAN LANE
SONOMA COUNTY, CALIFORNIA

Strip/Spread Foundations:

Minimum embedment[1]:	24 inches
Allowable bearing capacity[2]:	
Dead load plus Live load:	2,000 psf
Total Design loads, including wind or seismic:	2,500 psf
Lateral passive resistance[3]:	300 pcf
Base friction coefficient:	0.35

(1) Below existing grade. Deepen as necessary to maintain uniform bearing.
(2) Uniform rectangular pressure distribution.
(3) Equivalent Fluid Pressure

Drainage: For improved long-term performance roof edges should be provided with gutters to collect rainfall runoff, and the downspouts should be connected to closed pipe leaders with discharge at least five feet away from the building or onto an impervious surface. If leaders are to be buried, they should consist of smooth rigid non-perforated pipe to facilitate future maintenance.

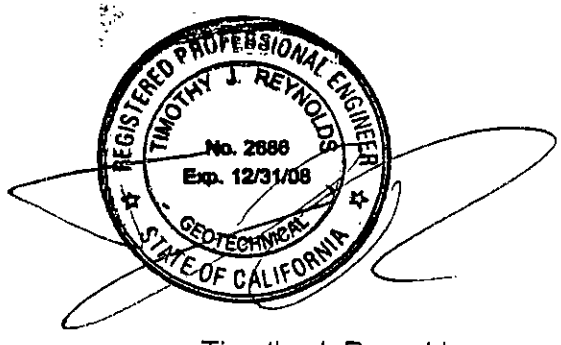
Additional Services

Prior to construction, we should review the completed project plans and specifications for conformance with the intent of our recommendations. If there are changes or additions to the project design or approach, we should review these changes in order to determine whether the conclusions and recommendations presented in this report are still valid.

During construction, we should observe foundation excavations and perform any required field and laboratory testing. These observations will permit us to determine that the exposed soil conditions are as anticipated, and to modify our recommendations, if necessary. Further, it will also permit us to check that the contractor's work is in conformance with the intent of the plans and our recommendations.

We trust that this provides the information required at this time. If you or others have further questions, please do not hesitate to call.

Yours very truly,
MILLER PACIFIC ENGINEERING GROUP



Nathaniel R. Swanson
Staff Geologist

Timothy J. Reynolds
Geotechnical Engineer No. 2686
(Expires 12/31/08)

3 copies hand delivered

Miller Pacific
ENGINEERING GROUP

504 Redwood Blvd.
Suite 220
Novato, California 94947
T 415 / 382-3444
F 415 / 382-3450

May 27, 2009
File: 1561.03bltr.doc

K.C. Goltermann
316 Petaluma Boulevard South
Petaluma, California 94954

Re: Geotechnical Foundation Evaluation
New Barn and Tank House
1663 Skillman Lane
Sonoma County, California

Mr. Goltermann:

This letter summarizes our geotechnical evaluation of new foundations for a barn and tank house at 1663 Skillman Lane in Sonoma County. We did not perform a geotechnical investigation for these structures in advance of design and we did not observe construction of the foundations. Our scope of services has included reviewing a pachometer survey of the existing barn and tank house foundations performed by Signet Testing Labs, observing several shallow test pits adjacent to the barn house and main house (near to the tank house), logging subsurface materials encountered, reviewing foundation plans for the barn (Second Dwelling) and tank house (Office/Studio), and summarizing our findings in this letter. Our services have been provided in accordance with our agreement dated May 19, 2009.

Plans reviewed include "Goltermann Second Dwelling, prepared by Dixon Custom Builders and dated April 1, 2009 (eight sheets) and Goltermann Office/Studio, also prepared by Dixon Builders and dated April 1, 2009 (five sheets). Plans call for perimeter strip footings, minimum 2-feet deep, and interior (Second Dwelling) and exterior (Office/Studio) pad footings, also a minimum of 2-feet deep. The pachometer survey we reviewed describes the barn and tank house footings as 18 to 24 inches wide, 24 inches deep, and reinforced by #4 steel bars. Footing depths that we observed in our test pits generally confirm the depths recorded in the pachometer survey. We did not observe interior footings for the Barn. Subsurface materials encountered generally consist of moist fine sand and clayey sand. Soils are relatively loose in the upper 12 to 18 inches and become progressively more stiff/dense with depth. Weathered sandstone bedrock is typically encountered at approximately two to three feet below ground surface.

Based on review of the pachometer survey, our test pits, and the site's soil and rock profile we judge that existing foundations are adequately embedded to provide reasonable foundation bearing support for the barn and tank house structures. For improved performance, drainage provisions as shown schematically on Figure 1 could be implemented.

We trust that this provides the information required at this time. If you or others have further questions, please do not hesitate to call.

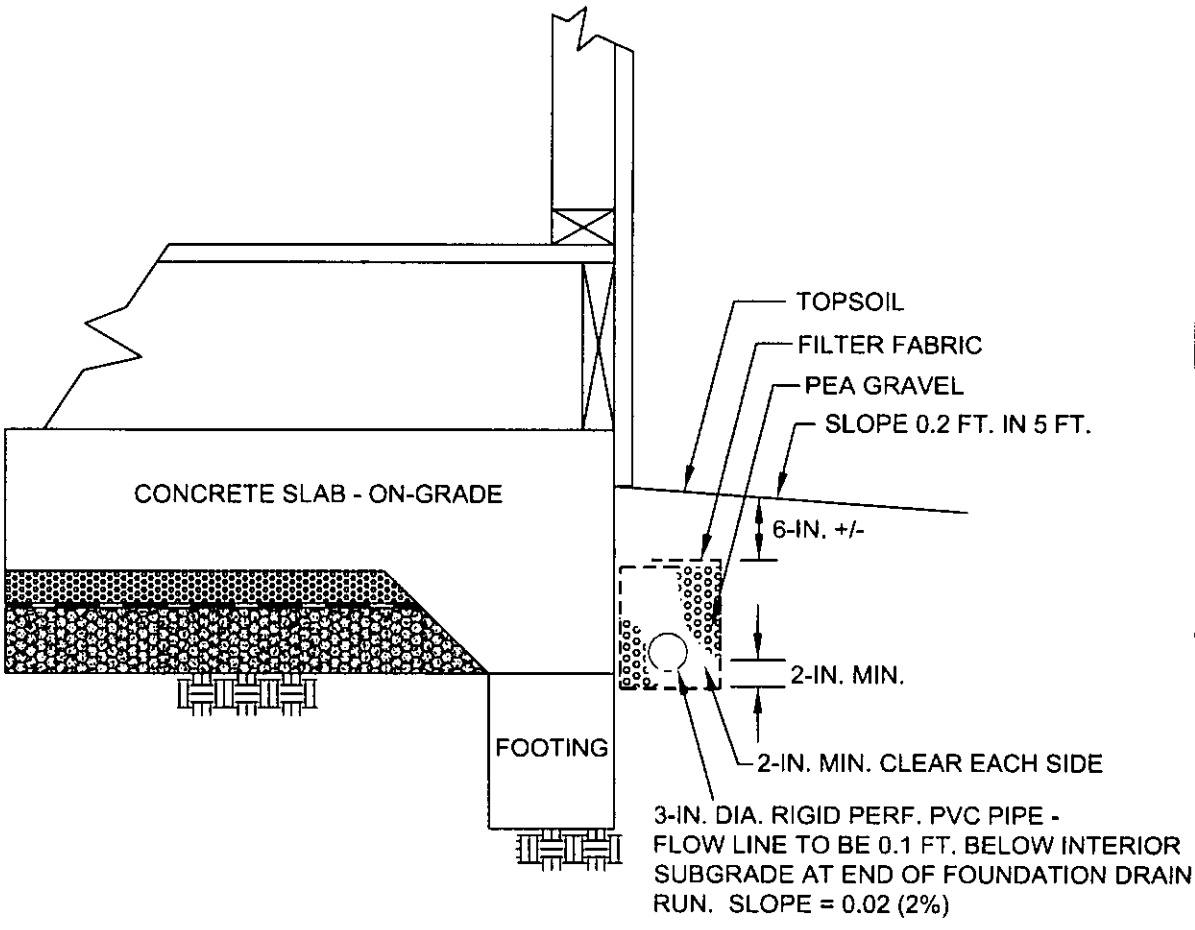
Yours very truly,
MILLER PACIFIC ENGINEERING GROUP

Nathaniel R. Swanson
Professional Geologist No. 8579
(Expires 3/31/10)

Timothy J. Reynolds
Geotechnical Engineer No. 2686
(Expires 12/31/10)

3 copies provided

One copy provided via e-mail to Cindy Rader, Sonoma County PRMD



NOTES:

(1.) DO NOT CONNECT DOWNSPOUT LEADER TO FOUNDATION DRAIN

(2.) DISCHARGE THROUGH 4-1N. DIAMETER, RIGID PVC PIPE

(3.) DISCHARGE THROUGH RIGID, NON-PERFORATED PIPE, SLOPE 0.02 (2%) UNLESS OTHERWISE SPECIFIED

TYPICAL FOUNDATION DRAIN DETAIL

(NO SCALE)

Miller Pacific
ENGINEERING GROUP

1333 N. McDowell Blvd.
Suite C
Petaluma, CA 94947
T 707 / 765-6140
F 707 / 765-6222
www.millerpac.com

FILE: 1561.03_FoundationDrain.dwg

TYPICAL FOUNDATION DRAIN DETAIL

Goltermann - Barn House
1663 Skillman Lane
Sonoma County, California
Project No. 1561.03 Date: 5/21/09

Designed TJR
Drawn NRS
Checked

1
FIGURE

Certificate Of Compliance : Residential (Part 1 of 3) CF-1R

Golterman Tank House — Project Title
5/14/2009 — Date
1733 Skillman Lane Petaluma — Project Address
Building Permit #
Griffin Energy Compliance — Documentation Author
(707) 778-7818 — Telephone
Plan Check/Date
EnergyPro — Compliance Method
2 — Climate Zone
Field Check/Date

TDV (kBtu/sf-yr)	Standard Design	Proposed Design	Compliance Margin
Space Heating	44.36	40.85	3.50
Space Cooling	26.90	27.68	-0.78
Fans	5.91	5.95	-0.04
Domestic Hot Water	0.00	0.00	0.00
Pumps	0.00	0.00	0.00
Totals	77.17	74.49	2.68
Percent better than Standard:			3.5%

BUILDING COMPLIES - NO HERS VERIFICATION REQUIRED

Building Type: [X] Single Family [ ] Addition [ ] Multi Family [ ] Existing + Add/Alt

Building Front Orientation: (N) 0 deg
Fuel Type: Natural Gas
Fenestration:
Area: 62 ft² **Avg. U:** 0.43
Ratio: 25.4% **Avg. SHGC:** 0.43

Total Conditioned Floor Area: 244 ft²
Existing Floor Area: n/a ft²
Raised Floor Area: 0 ft²
Slab on Grade Area: 144 ft²
Average Ceiling Height: 9.7 ft
Number of Dwelling Units: 1.00
Number of Stories: 2

BUILDING ZONE INFORMATION

Zone Name	Floor Area	Volume	# of Units	Zone Type	Thermostat Type	Vent Hgt.	Vent Area
Office.HVAC	144	1,627	0.59	Conditioned	No.Setback	8	n/a
Studio.HVAC	100	750	0.41	Conditioned	No.Setback	8	n/a

OPAQUE SURFACES

Type	Frame	Area	U-Fac.	Insulation Cav.	Insulation Cont.	Act. Azm.	Tilt	Gains Y	Gains N	Condition Status	JA IV Reference	Location / Comments
Wall	Wood	115	0.074	R-19	R-0.0	0	90	X		New	09-A5	Office
Door	None	20	0.500	None	R-0.0	0	90	X		New	28-A4	Office
Wall	Wood	135	0.074	R-19	R-0.0	90	90	X		New	09-A5	Office
Wall	Wood	115	0.074	R-19	R-0.0	180	90	X		New	09-A5	Office
Wall	Wood	135	0.074	R-19	R-0.0	270	90	X		New	09-A5	Office
Roof	Wood	103	0.058	None	R-19.0	0	22	X		New	02-A18	Studio
Wall	Wood	61	0.102	R-13	R-0.0	0	90	X		New	09-A3	Studio
Wall	Wood	61	0.102	R-13	R-0.0	90	90	X		New	09-A3	Studio
Wall	Wood	55	0.102	R-13	R-0.0	180	90	X		New	09-A3	Studio
Door	None	20	0.500	None	R-0.0	180	90	X		New	28-A4	Studio
Wall	Wood	61	0.102	R-13	R-0.0	270	90	X		New	09-A3	Studio

Certificate Of Compliance : Residential (Part 2 of 3) CF-1R

Golterman Tank House
Project Title

5/14/2009
Date

FENESTRATION SURFACES

#	Type	Area	U-Factor[1]	SHGC[2]	True Azm.	Tilt	Cond. Stat.	Glazing Type	Location/ Comments
1	Window Rear (S)	20.0	0.350 NFRC	0.29 NFRC	180	90	New	Pella Window	Office
2	Window Front (N)	14.0	0.470 NFRC	0.49 NFRC	0	90	New	International Window	Studio
3	Window Left (E)	14.0	0.470 NFRC	0.49 NFRC	90	90	New	International Window	Studio
4	Window Right (W)	14.0	0.470 NFRC	0.49 NFRC	270	90	New	International Window	Studio

1. Indicate source either from NFRC or Table 116A. 2. Indicate source either from NFRC or Table 116B.

INTERIOR AND EXTERIOR SHADING

#	Exterior Shade Type	SHGC	Window Hgt.	Window Wd.	Overhang Len.	Overhang Hgt.	Overhang LExt.	Overhang RExt.	Left Fin Dist.	Left Fin Len.	Left Fin Hgt.	Right Fin Dist.	Right Fin Len.	Right Fin Hgt.
1	Bug Screen	0.76	4.0	5.0	4.0	0.1	4.0	4.0						
2	Bug Screen	0.76												
3	Bug Screen	0.76												
4	Bug Screen	0.76												

THERMAL MASS FOR HIGH MASS DESIGN

Type	Area (sf)	Thick. (in.)	Heat Cap.	Cond.	Inside R-Val.	JA IV Reference	Condition Status	Location/ Comments

PERIMETER LOSSES

Type	Length	R-Val.	Insulation Location	JA IV Reference	Condition Status	Location/ Comments
Slab Perimeter	48	None	No Insulation	26-A1	New	Office

Certificate Of Compliance : Residential (Part 3 of 3) CF-1R

Golterman Tank House — Project Title
5/14/2009 — Date

HVAC SYSTEMS

Location	Heating Type	Minimum Eff	Cooling Type	Minimum Eff	Condition Status	Thermostat Type
Office HVAC	Gravity Wall Furnace	59% AFUE	No Cooling	13.0 SEER	New	No Setback
Studio HVAC	Gravity Wall Furnace	59% AFUE	No Cooling	13.0 SEER	New	No Setback

HVAC DISTRIBUTION

Location	Heating	Cooling	Duct Location	Duct R-Value	Condition Status	Ducts Tested?
Office HVAC	Ductless / No Fan	Ductless	n/a	n/a	New	No
Studio HVAC	Ductless / No Fan	Ductless	n/a	n/a	New	No

Hydronic Piping System Name	Pipe Length	Pipe Diameter	Insul. Thick.

WATER HEATING SYSTEMS

System Name	Water Heater Type	Distribution	# in Syst.	Rated Input (Btu/hr)	Tank Cap. (gal)	Condition Status	Energy Factor or RE	Standby Loss (%)	Tank Insul. R-Value Ext.

Multi-Family Central Water Heating Details

Control	Hot Water Pump #	Hot Water Pump HP	Hot Water Pump Type	Hot Water Piping Length (ft) In Plenum	Hot Water Piping Length (ft) Outside	Hot Water Piping Length (ft) Buried	Add 1/2" Insulation

REMARKS

COMPLIANCE STATEMENT

This certificate of compliance lists the building features and specifications needed to comply with Title 24, Parts 1 and 6 of the California Code of Regulations, and the administrative regulations to implement them. This certificate has been signed by the individual with overall design responsibility. The undersigned recognizes that compliance using duct design, duct sealing, verification of refrigerant charge and TXVs, insulation installation quality, and building envelope sealing require installer testing and certification and field verification by an approved HERS rater.

Designer or Owner (per Business & Professions Code)
Name:
Title/Firm: Dixon Custom Builders
Address: 1015 Skillman Lane
Petaluma, CA 94952
Telephone: (707) 483-5778 Lic. #: 415100
(signature) (date)

Documentation Author
Name: P. Griffin-Young
Title/Firm: Griffin Energy Compliance
Address: P.O. Box 2099
Petaluma, CA 94953
Telephone: (707) 778-7818
(signature) 5/14/09 (date)

Enforcement Agency
Name:
Title/Firm:
Address:
Telephone:

STAMP

(signature) (date)

Mandatory Measures Summary: Residential (Page 1 of 2) MF-1R

NOTE: Lowrise residential buildings subject to the Standards must contain these measures regardless of the compliance approach used. More stringent compliance requirements from the Certificate of Compliance supercede the items marked with an asterisk (*) below. When this checklist is incorporated into the permit documents, the features noted shall be considered by all parties as minimum component performance specifications for the mandatory measures whether they are shown elsewhere in the documents or on this checklist only.

DESCRIPTION — Check or initial applicable boxes or check NA if not applicable and included with the permit application documentation.	N/A	DESIGNER	ENFORCEMENT
Building Envelope Measures			
*§ 150(a): Minimum R-19 in wood ceiling insulation or equivalent U-factor in metal frame ceiling.	☐	☒	☐
§ 150(b): Loose fill insulation manufacturer's labeled R-Value:_____.	☐	☐	☐
*§ 150(c): Minimum R-13 wall insulation in wood framed walls or equivalent U-factor in metal frame walls (does not apply to exterior mass walls).	☐	☒	☐
*§ 150(d): Minimum R-13 raised floor insulation in framed floors or equivalent U-factor.	☐	☐	☐
§ 150(e): Installation of Fireplaces, Decorative Gas Appliances and Gas Logs.			
1. Masonry and factory-built fireplaces have:			
a. closable metal or glass door covering the entire opening of the firebox	☐	☐	☐
b. outside air intake with damper and control, flue damper and control	☐	☐	☐
2. No continuous burning gas pilot lights allowed.	☐	☐	☐
§ 150(f): Air retarding wrap installed to comply with §151 meets requirements specified in the ACM Residential Manual.	☐	☐	☐
§ 150(g): Vapor barriers mandatory in Climate Zones 14 and 16 only.	☐	☐	☐
§ 150(l): Slab edge insulation - water absorption rate for the insulation alone without facings no greater than 0.3%, water vapor permeance rate no greater than 2.0 perm/inch.	☐	☐	☐
§ 118: Insulation specified or installed meets insulation installation quality standards. Indicate type and include CF-6R Form: _____	☐	☒	☐
§ 116-17: Fenestration Products, Exterior Doors, and Infiltration/Exfiltration Controls.			
1. Doors and windows between conditioned and unconditioned spaces designed to limit air leakage.	☐	☐	☐
2. Fenestration products (except field fabricated) have label with certified U-Factor, certified Solar Heat Gain Coefficient (SHGC), and infiltration certification.	☐	☒	☐
3. Exterior doors and windows weatherstripped; all joints and penetrations caulked and sealed.	☐	☒	☐
Space Conditioning, Water Heating and Plumbing System Measures			
§ 110-13: HVAC equipment, water heaters, showerheads and faucets certified by the Energy Commission.	☐	☒	☐
§ 150(h): Heating and/or cooling loads calculated in accordance with ASHRAE, SMACNA or ACCA.	☐	☒	☐
§ 150(i): Setback thermostat on all applicable heating and/or cooling systems.	☐	☒	☐
§ 150(j): Water system pipe and tank insulation and cooling systems line insulation.			
1. Storage gas water heaters rated with an Energy Factor less than 0.58 must be externally wrapped with insulation having an installed thermal resistance of R-12 or greater.	☐	☐	☐
2. Back-up tanks for solar systems, unfired storage tanks, or other indirect hot water tanks have R-12 external insulation or R-16 internal insulation and indicated on the exterior of the tank showing the R-value.	☐	☐	☐
3. The following piping is insulated according to Table 150-A/B or Equation 150-A Insulation Thickness:			
1. First 5 feet of hot and cold water pipes closest to water heater tank, non-recirculating systems, and entire length of recirculating sections of hot water pipes shall be insulated to Table 150B.	☐	☐	☐
2. Cooling system piping (suction, chilled water, or brine lines), piping insulated between heating source and indirect hot water tank shall be insulated to Table 150-B and Equation 150-A.	☐	☐	☐
4. Steam hydronic heating systems or hot water systems > 15 psi, meet requirements of Table 123-A.	☐	☐	☐
5. Insulation must be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind.	☐	☐	☐
6. Insulation for chilled water piping and refrigerant suction piping includes a vapor retardant or is enclosed entirely in conditioned space.	☐	☐	☐
7. Solar water-heating systems/collectors are certified by the Solar Rating and Certification Corporation.	☐	☐	☐

Mandatory Measures Summary: Residential (Page 2 of 2) MF-1R

NOTE: Lowrise residential buildings subject to the Standards must contain these measures regardless of the compliance approach used. More stringent compliance requirements from the Certificate of Compliance supercede the items marked with an asterisk (*) below. When this checklist is incorporated into the permit documents, the features noted shall be considered by all parties as minimum component performance specifications for the mandatory measures whether they are shown elsewhere in the documents or on this checklist only.

DESCRIPTION — Instructions: Check or initial applicable boxes when completed or check N/A if not applicable.	N/A	DESIGNER	ENFORCEMENT
Space Conditioning, Water Heating and Plumbing System Measures: (continued)			
§ 150(m): Ducts and Fans			
1. All ducts and plenums installed, sealed and insulated to meet the requirements of the CMC Sections 601, 602, 603, 604, 605, and Standard 6-5; supply-air and return-air ducts and plenums are insulated to a minumum installed level of R-4.2 or enclosed entirely in conditioned space. Openings shall be sealed with mastic, tape or other duct-closure system that meets the applicable requirements of UL 181, UL 181A, or UL 181B or aerosol sealant that meets the requirements of UL 723. If mastic or tape is used to seal openings greater than 1/4 inch, the combination of mastic and either mesh or tape shall be used.	☐	☐	☐
2. Building cavities, support platforms for air handlers, and plenums defined or constructed with materials other than sealed sheet metal, duct board or flexible duct shall not be used for conveying conditioned air. Building cavities and support platforms may contain ducts. Ducts installed in cavities and support platforms shall not be compressed to cause reductions in the cross-sectional area of the ducts.	☐	☐	☐
3. Joints and seams of duct systems and their components shall not be sealed with cloth back rubber adhesive duct tapes unless such tape is used in combination with mastic and draw bands.	☐	☐	☐
4. Exhaust fan systems have back draft or automatic dampers.	☐	☐	☐
5. Gravity ventilating systems serving conditioned space have either automatic or readily accessible, manually operating dampers.	☐	☐	☐
6. Protection of Insulation. Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Cellular foam insulation shall be protected as above or painted with a coating that is water retardantand provides shielding from solar radiation that can cause degradation of the material.	☐	☐	☐
7. Flexible ducts cannot have porous inner cores.	☐	☐	☐
§ 114: Pool and Spa Heating Systems and Equipment			
1. A thermal efficiency that complies with the Appliance Efficiency Regulations, on-off switch mounted outside of the heater, weatherproof operating instructions, no electric resistance heating and no pilot light.	☐	☐	☐
2. System is installed with:			
a. At least 36" of pipe between filter and heater for future solar heating.	☐	☐	☐
b. Cover for outdoor pools or outdoor spas.	☐	☐	☐
3. Pool system has directional inlets and a circulation pump time switch.	☐	☐	☐
§ 115: Gas fired fan-type central furnaces, pool heaters, spa heaters or household cooking appliances have no continuously burning pilot light. (Exception: Non-electrical cooking appliances with pilot < 150 Btu/hr)	☐	☒	☐
§ 118 (i): Cool Roof material meets specified criteria	☐	☐	☐
Lighting Measures			
§ 150(k)1: HIGH EFFICACY LUMINAIRES OTHER THAN OUTDOOR HID: contain only high efficacy lamps as outlined in Table 150-C, and do not contain a medium screw base socket (E24/E26). Ballasts for lamps 13 Watts or greater are electric and have an output frequency no less than 20 kHz.	☐	☐	☐
§ 150(k)1: HIGH EFFICACY LUMINAIRES - OUTDOOR HID: contain only high efficacy lamps as outlined in Table 150-C, luminaire has factory installed HID ballast.	☐	☐	☐
§ 150(k)2: Permanently installed luminaires in kitchens shall be high efficacy luminaires. Up to 50% of the Wattage, as determined in Section 130(c), of permanently installed luminaires in kitchens may be in luminaires that are not high efficacy luminaires, provided that these luminaires are controlled by switches separate from those controlling the high efficacy luminaires.	☐	☐	☐
§ 150(k)3: Permanently installed luminaires in bathrooms, garages, laundry rooms, utility rooms shall be high efficacy luminaires. OR are controlled by an occupant sensor(s) certfied to comply with Section 119(d).	☐	☐	☐
§ 150(k)4: Permanently installed luminaires located other than in kichens, bathrooms, garages, laundry rooms, and utility rooms shall be high efficacy luminaires (except closets less than 70 ft) OR are controlled by a dimmer switch OR are controlled by an occupant sensor that complies with Section 119(d) that does not turn on automatically or have an always on option.	☐	☐	☐
§ 150(k)5: Luminaires that are recessed into insulated ceilings are approved for zero clearance insulation cover (IC) and are certified to ASTM E283 and labeled as air tight (AT) to less than 2.0 CFM at 75 Pascals.	☐	☐	☐
§ 150(k)6: Luminaires providing outdoor lighting and permanently mounted to a residential building or to other buildings on the same lot shall be high efficacy luminaires (not including lighting around swimming pools/water features or other Article 680 locations) OR are controlled by occupant sensors with integral photo control certified to comply with Section 119(d).	☐	☐	☐
§ 150(k)7: Lighting for parking lots for 8 or more vehicles shall have lighting that complies with Sections 130, 132, and 147. Lighting for parking garages for 8 or more vehicles shall have lighting that complies with Section 130, 131, and 146.	☐	☐	☐
§ 150(k)8: Permanently installed lighting in the enclosed, non-dwelling spaces of low-rise residential buildings with four or more dwelling units shall be high efficacy luminaires OR are controlled by occupant sensor(s) certified to comply with Section 119(d).	☐	☐	☐

HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY

PROJECT NAME	DATE
Golterman Tank House	5/14/2009
SYSTEM NAME	**FLOOR AREA**
Office HVAC	144

ENGINEERING CHECKS

Number of Systems	1
Heating System	
Output per System	6,000
Total Output (Btuh)	6,000
Output (Btuh/sqft)	41.7
Cooling System	
Output per System	0
Total Output (Btuh)	0
Total Output (Tons)	0.0
Total Output (Btuh/sqft)	0.0
Total Output (sqft/Ton)	0.0
Air System	
CFM per System	855
Airflow (cfm)	855
Airflow (cfm/sqft)	5.94
Airflow (cfm/Ton)	0.0
Outside Air (%)	0.0
Outside Air (cfm/sqft)	0.00

Note: values above given at ARI conditions

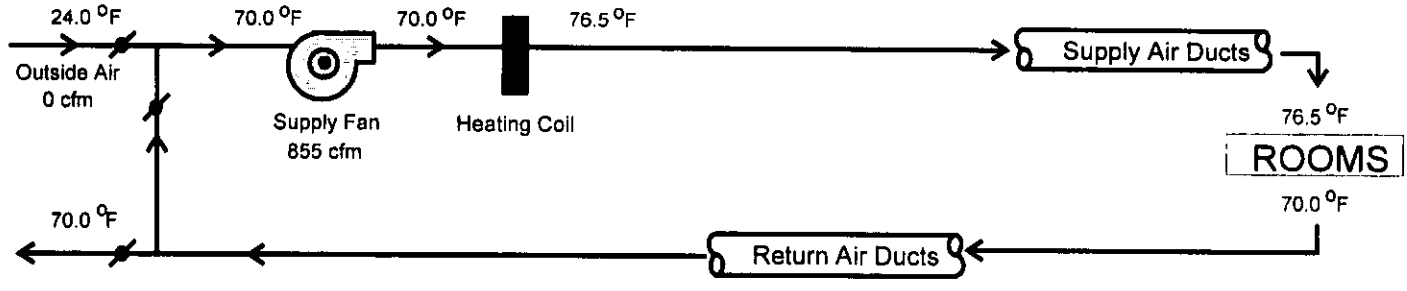
SYSTEM LOAD

	COIL COOLING PEAK			COIL HTG. PEAK	
	CFM	Sensible	Latent	CFM	Sensible
Total Room Loads	135	3,345	778	639	4,486
Return Vented Lighting		0			
Return Air Ducts		0			0
Return Fan		0			0
Ventilation	0	0	0	0	0
Supply Fan		0			0
Supply Air Ducts		0			0
TOTAL SYSTEM LOAD		3,345	778		4,486

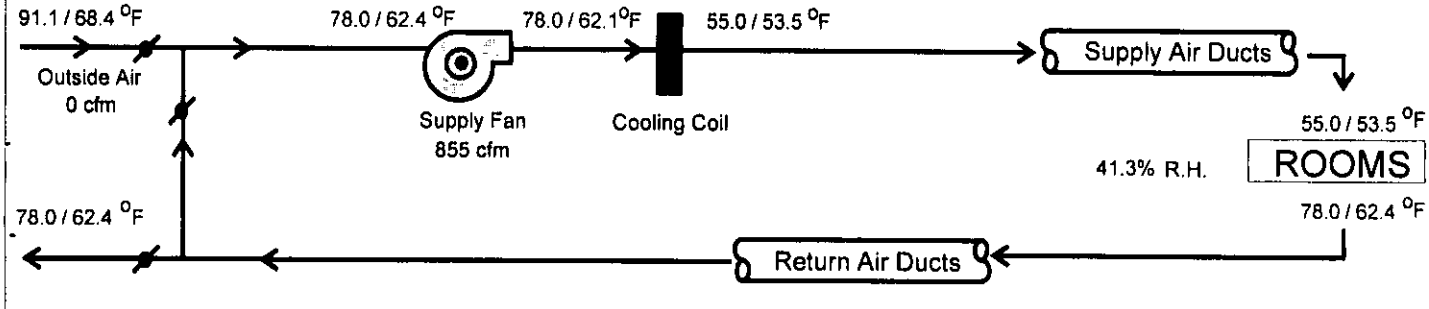
HVAC EQUIPMENT SELECTION

Empire Direct Vent Wall Furnace	0	0	6,000
Total Adjusted System Output (Adjusted for Peak Design Conditions)	0	0	6,000
TIME OF SYSTEM PEAK	Aug 2 pm		Jan 12 am

HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)



COOLING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Cooling Peak)



HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY

PROJECT NAME	DATE
Golterman Tank House	5/14/2009
SYSTEM NAME	**FLOOR AREA**
Studio HVAC	100

ENGINEERING CHECKS

Number of Systems	1
Heating System	
Output per System	6,000
Total Output (Btuh)	6,000
Output (Btuh/sqft)	60.0
Cooling System	
Output per System	0
Total Output (Btuh)	0
Total Output (Tons)	0.0
Total Output (Btuh/sqft)	0.0
Total Output (sqft/Ton)	0.0
Air System	
CFM per System	855
Airflow (cfm)	855
Airflow (cfm/sqft)	8.55
Airflow (cfm/Ton)	0.0
Outside Air (%)	0.0
Outside Air (cfm/sqft)	0.00

Note: values above given at ARI conditions

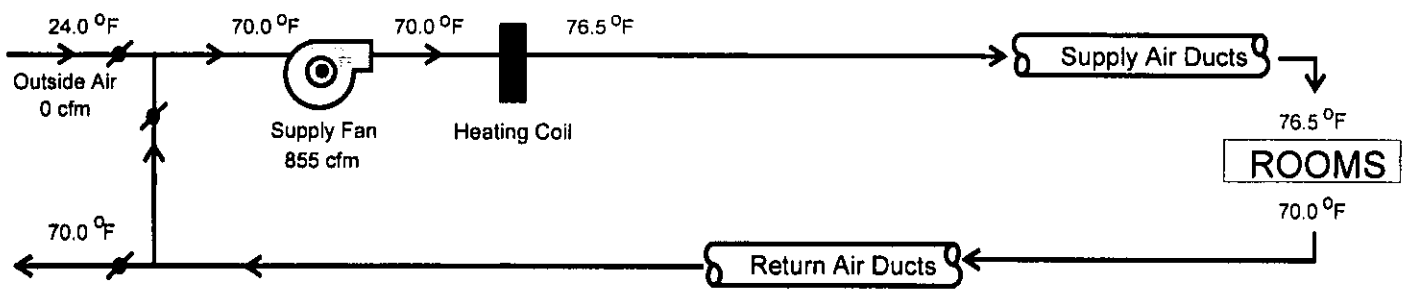
SYSTEM LOAD

	COIL COOLING PEAK			COIL HTG. PEAK	
	CFM	Sensible	Latent	CFM	Sensible
Total Room Loads	197	4,890	785	432	3,031
Return Vented Lighting		0			
Return Air Ducts		0			0
Return Fan		0			0
Ventilation	0	0	0	0	0
Supply Fan		0			0
Supply Air Ducts		0			0
TOTAL SYSTEM LOAD		4,890	785		3,031

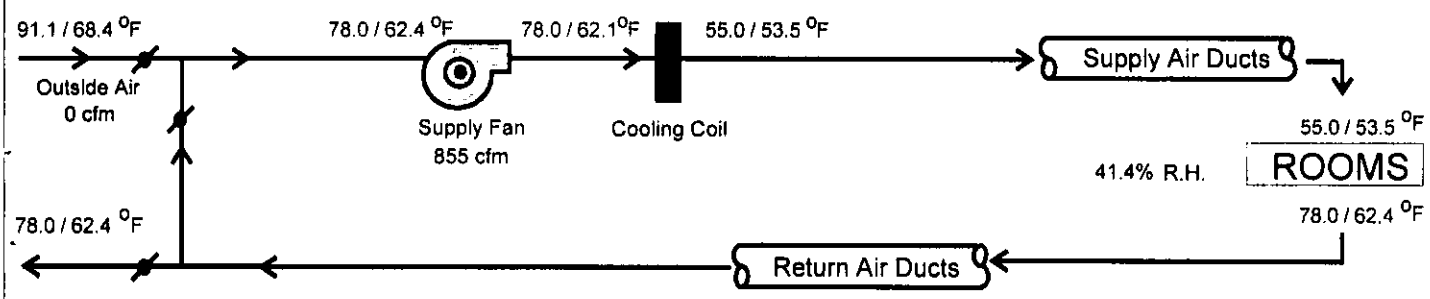
HVAC EQUIPMENT SELECTION

Empire Direct Vent Wall Furnace	0	0	6,000
Total Adjusted System Output (Adjusted for Peak Design Conditions)	0	0	6,000
TIME OF SYSTEM PEAK	Aug 2 pm		Jan 12 am

HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)



COOLING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Cooling Peak)



COUNTY OF SONOMA - PERMIT AND RESOURCE MANAGEMENT DEPARTMENT

2550 Ventura Avenue, Santa Rosa, CA 95403 (707) 565-1900 FAX (707) 565-1103

Please Print Your Name: CASEY GOLTERMANN

Date Applied: 4-13-09

INFORMATION WITHIN HEAVY LINE TO BE COMPLETED BY APPLICANT

SITE LOCATION INFORMATION - PRINT CLEARLY

Site Address: 1733 SKILLMAN LN.	City: PETALUMA		ZIP: 94952
Cross-Street: FAIR AVENUE	APN: 048-091-003	Project Phone #: 707 7531111	Project Fax #: 707 7652145
Directions: PETALUMA BLVD. TO SKILLMAN	Email address:	Unit #	Lot #
Describe Project: ~~convert~~ renovate tank house.	Living Area 244 / Garage / Deck 75	Contract Price: ~~$1,000~~	

OWNER NAME AND ADDRESS			APPLICANT (if other than owner) NAME AND ADDRESS		
Name: CASEY GOLTERMANN			Name:		
Mailing Address: 316 PETALUMA BLVD. SO.			Mailing Address:		
City: PETALUMA	State: CA	ZIP: 94952	City:	State:	ZIP:
Day Ph: 707 7531111	Fax: 707 765 2145		Day Ph: ( )	Fax: ( )	

CONTRACTOR INFORMATION			OTHER PERSONS (ARCHITECT, ENGINEER, ETC.)		
Company Name:			Name:		
Address:			Address:		
City:	State:	ZIP:	City:	State:	ZIP:
Day Ph: ( )	Fax: ( )		Day Ph: ( )	Fax: ( )	
			License No:	Exp. Date:	

WORKER'S COMPENSATION DECLARATION

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for worker's compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☐ I have and will maintain worker's compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My worker's compensation insurance carrier and policy number are:

Carrier _____

Policy No. _____

(This section need not be completed if the permit is for one hundred dollars ($100) or less).

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the worker's compensation laws of California, and agree that if I should become subject to the worker's compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Exp. Date: _____ Applicant: _____

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER-BUILDER DECLARATION

I hereby affirm under penalty of perjury that I am exempt from the Contractor's License Law for the following reason (Sec. 7031.5, Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractor's License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500).):

☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044 Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his or her own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he or she did not build or improve for the purpose of sale.).

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law.).

☐ I am exempt under Sec. _____, B & P.C. for this reason _____

By my signature below I acknowledge that, except for my personal residence in which I must have resided for at least one year prior to completion of the improvements covered by this permit, I cannot legally sell a structure that I have built as an owner-builder if it has not been constructed in its entirety by licensed contractors. I understand that a copy of the applicable law, Section 7044 of the Business and Professions Code, is available upon request when this application is submitted or at the following website: http://www.leginfo.ca.gov/calaw.html.

4-13-09 _____
Date Signature of Property Owner or Authorized Agent

LICENSED CONTRACTOR'S DECLARATION

I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

Lic. Class _____ Lic. No. _____

Exp. Date _____ Contractor _____

ASBESTOS DECLARATION

Written asbestos notification pursuant to Part 61 of Title 40 of the Code of Federal Regulations is required when asbestos exists in buildings, or portions thereof, undergoing demolition. I hereby declare that demolition authorized by this permit is from construction that (☐ does) (☐ does not) contain asbestos, or that ☐ no demolition is authorized by this permit.

I certify that I have read this application and affirm under penalty of perjury that the above information is correct. I agree to comply with all local Ordinances and State laws relating to building construction. I hereby authorize representatives of the County of Sonoma to enter upon the above-mentioned property for inspection purposes. If, after making the Certificate of Exemption for the Worker's Compensation provision of the Labor Code I should become subject to such provisions, I will forthwith comply. In the event I do not comply with the Workmen's Compensation law, this permit shall be deemed revoked.

_____
PERMIT FEE SIGNATURE

1733 SKILLMAN LN. PETALUMA 94952
ADDRESS CITY ZIP

☐ Contractor ☐ Owner ☐ Other Licensed Professional

THIS PERMIT SHALL EXPIRE IN THREE(3) YEARS FROM DATE FEES ARE PAID UNLESS OTHERWISE NOTED BY CODE ENFORCEMENT

FOR DEPARTMENT USE

Zoning AR B6-2ac, VOH File No. _____ Acres 6.0

Existing Use/Structures SFD

Proposed Use/Structures convert tankhouse to office/studio

Zoning Min. Yard Requirements: Front 30 Left 10 Right 10 Back 20

NOTE: Fire Safe Standards require all parcels greater than 1 Acre to have a min. 30' setback unless mitigated. ☐ Mitigation Required ☐ Address subject to change

Approval for Permit Issuance: By: _____ Date: _____

Approval for Occupancy: By: Scott Hemenger Date: 4/13/09

Conditions: _____

Sewer Connection: ☐ Available ☐ Fees Paid
Approved by: _____ Date: _____

Road Encroachment: ☐ Fees Paid
Approved by: [signature] Date: 6-3-09

Septic System Permit/Clearance # SEP09-0070
Approved by: James C. Johnson Date: 4/13/09

Flood Zone: ☐ Yes ☒ No 100 Year Flood Elevation: _____
Site Review _____
Drainage Review:
Approved by: _____ Date: _____

Fire:
Approved by: [signature] Date: 4/13/09

Code Enforcement Violation ☐ Yes ☒ No Violation # _____
This permit is limited to 365 days.
OK TO ISSUE FROM T. LINN

Work Authorized: Rebuild tank House to home office/art studio

☒ Plans Approved ☐ No Plans Subject to Field Inspection
☐ Post FIRM ☐ Alquist Priolo Report Available ☐ Pre FIRM ☒ Geotechnical report Available

Plancheck Cleared By	Date:	Type of Construction	Occupancy	No. of Stories	No. of Bedrooms
[signature]	6/2/09	VB	R3	2	4

Permit Cleared for Issuance By	Date:	Auto. Fire Sprinklers Req'd.	No of Units	Certificate of Occupancy
[signature]	6/3/09	YES	1	

Machine Space for Permit Fee

PAYMENT RECD
$ 2309.34
JUN 03 2009
PERMIT AND RESOURCE MANAGEMENT DEPARTMENT COUNTY OF SONOMA

JOB ADDRESS: 1733 Skillman Ln

PERMIT NUMBER: BU09-1336

INSPECTION AREA: 3

cmiller s:\handouts\cas\CIS-001.pdf Revised: 01/29/2009

Distribution: White - File Canary - Applicant Blue - Assessor Cardstock - Inspector

131) SPECIAL INSPECTION REQUIRED ☐ YES ☐ NO IF YES, SEE ADDITIONAL SHEET			
	INSPECTION RECORD	**DATE**	**NAME**
101)	**ROUGH GRADING**		
103)	**FOUNDATION**		
	FORMS/SETBACK		
	FOOTING		
	WALLS		
106)	**UFER GROUND #**		
104)	**CAISSONS/PIERS**		
105)	**SLAB**		
107)	**UNDERGROUND UTILITIES**		
110)	**MASONRY**		
109)	**RETAINING WALLS**		
113)	**FIREPLACE**		
	FOOTING		
	HEARTH/PROTECTION		
	THROAT		
114)	**CHIMNEY**		
120)	**UNDERFLOOR/UNDERSLAB**		
115)	**HYDRONICS**		
116)	**U/F ELECTRICAL**		
117)	**U/F MECHANICAL**		
118)	**U/F PLUMBING**		
119)	**U/F FRAMING**		
139)	**U/F INSULATION**		
126)	**SHEAR WALLS**		
☐ INTERIOR ☐ EXTERIOR			
127)	**DIAPHRAGMS**		
☐ ROOF ☐ FLOOR			
134)	**SIDING/SHEATHING**		
125)	**HOLD DOWNS**		
132)	**CLOSE-IN**	SPRINKLERS REQ PER PLANS	
122)	**ROUGH ELECTRICAL**	6-8-09	ARM
123)	**ROUGH MECHANICAL**		
124)	**ROUGH PLUMBING**		
128)	**ROUGH FRAME**		
160)	**SMOKE DETECTORS**		
139)	**INSULATION**		
142)	**WALLBOARD**	6-15-09	ARM
143)	**FIREWALLS**		
135)	**STUCCO/PLASTER**		
☐ LATH ☐ SCRATCH			
137)	**ROOFING**		
130)	**TUB/SHOWER PAN**		
162)	**FIRE DAMPERS/DOORS**		
164)	**SUSPENDED CEILING**		
☐ ROUGH ELEC. ☐ ROUGH MECH.			
165)	**EXITING** - RAMPS/STAIRS		
163)	HANDRAILS/GUARDRAILS		
	CORRIDORS/DOORS		
166)	**ACCESSIBILITY COMPLIANCE**		
144)	**WATER TANKS**		
☐ SLAB ☐ WALLS			
170)	**TEMPORARY OCCUPANCY**		
171)	**TEMPORARY ELECTRICAL**		
172)	**TEMPORARY GAS**		
174)	**ELECTRIC METER AUTHORIZATION**		
152)	**PANEL BOARDS/SERVICE**		
189)	**SEPTIC ELECTRIC FINAL**		
175)	**GAS METER AUTHORIZATION**		
153)	**GAS PRESSURE TEST**		
HOUSE YARD			
190)	**MANUF. HOME FOUNDATION**		
191)	**MANUF. HOME INSTALLATION**		
	CONTINUITY		
	STAIRS/SKIRTS		
	RIDGE BOLTING		
193)	**MANUF. HOME COND. FINAL**		
	SWIMMING POOLS		
194)	PRE-GUNITE		
195)	PRE-DECK		
196)	PRE-PLASTER/FENCE		
197)	VINYL/FIBERGLASS POOL EXCAVATION		
102)	**GRADING FINAL**		
176)	**ELECTRICAL FINAL**	OK TO FINAL AFTER	
177)	**MECHANICAL FINAL**	H-64 clearance	
178)	**PLUMBING FINAL**	7-28-09	ALLEN MARTIN
199)	**FINAL**		
	OCCUPANCY (OK TO OCCUPY)		

REMARKS

Convert tank House to Office at Shell

SOILS ENGINEER IS TO REVIEW FOUNDATION EXCAVATIONS AND NOTIFY CONSTRUCTION INSPECTOR OF APPROVAL PRIOR TO CALLING FOR FOUNDATION INSPECTION.

A BUILDING PERMIT AND PLANS MUST BE SUBMITTED TO FIRE SERVICES PRIOR TO UNDERFLOOR INSPECTION

FIRE SPRINKLERS REQUIRED

650)	**SUSMP INSPECTION**		
651)	**NPDES EROSION COMPLIANCE**		
652)	**NPDES SEDIMENT COMPLIANCE**		
653)	**NPDES DOCS/SWPPP**		
FIRE INSPECTION REQUIRED ☒ Yes ☐ No		**DATE**	**NAME**
759)	**KNOX BOX**		
760)	**PROPANE TANK HOLD DOWNS**		
770)	**SPRINKLER FINAL**		
771)	**ABOVEGROUND HYDROSTATIC**		
772)	**UNDERGROUND HYDROSTATIC**		
773)	**UNDERGROUND FLUSH**		
774)	**THRUST BLOCKS**		
775)	**PIPE WELD**		
776)	**HYDRANTS/APPLIANCES**		
777)	**PUMP ACCEPTANCE**		
778)	**WATER SUPPLY/TANK**		
779)	**ALARM SYSTEM**		
780)	**HOOD & DUCT SYSTEM**		
781)	**ABOVEGROUND TANK/DISPENSER**		
198)	**FIRE FINAL**		

CLEARANCES:

FIRE ☐ Local ☐ County

HEALTH DEPARTMENT

ZONING

SANITATION

PLAN RETENTION REQUIRED? ☐ Yes ☐ No

PERMIT # Bld09-1336