

CITY OF SACRAMENTO

Permit No: 0308241

1231 I Street, Sacramento, CA 95814

Insp Area: 4

Thos Bros: 277 J4

Site Address: 990 ARCADE BL SAC

Sub-Type: NOTHR

Parcel No: 265-0012-012

Housing (Y/N): N

CONTRACTOR

OWNER

ARCHITECT

DENNIS LANNI
2180 GEARY RD #9
PLEASANT HILL, CA 94523

Nature of Work: NEW RES ADDN TO EXISTING SFR TO CREATE DUPLEX/NEW DETACHED GARAGE.

CONSTRUCTION LENDING AGENCY: I hereby affirm under penalty of perjury that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C).

Lender's Name Lender's Address

LICENSED CONTRACTORS 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.

License Class License Number Date Contractor Signature

OWNER-BUILDER DECLARATION: I hereby affirm under penalty of perjury that I am exempt from the contractors 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 Contractors License Law (Chapter 9 (commencing with Section 7000) of Division 8 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 (\$500.00);

I, as a 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 Professional 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/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/she did not build or improve for the purpose of sale.)

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 & PC for this reason:
Date 8-12-03 Owner Signature

IN ISSUING THIS BUILDING PERMIT, the applicant represents, and the city relies on the representation of the applicant, that the applicant verified all measurements and locations shown on the application or accompanying drawings and that the improvement to be constructed does not violate any law or private agreement relating to permissible or prohibited locations for such improvements. This building permit does not authorize any illegal location of a ny improvement or the violation of any private agreement relating to location of improvements.

I certify that I have read this application and state that all information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction and hereby authorize representative(s) of this city to enter upon the abovementioned property for inspection purposes

Date 8-12-03 Applicant/Agent Signature

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 workers' compensation as provided for by Section 3700 of the Labor Code, for the performance of work for which the permit is issued.

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

Carrier Exp Date

(This section need not be completed if the permit is for \$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 provisions of the Labor Code, and I agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall comply with those provisions.

Date 8-12-03 Applicant Signature

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 FEE.

THIS PERMIT SHALL EXPIRE BY LIMITATION IF WORK IS NOT COMMENCED WITHIN 180 DAYS.

City of Sacramento Planning Division
PLANNING REVIEW FOR BUILDING PERMIT SUBMITTAL

ADDRESS: 990 Arcade Blvd.

APN: 265-0012-012

DRPB AREA / PUD / SPD: Expanded North Area

ZONING: R-1 (Corner)

EXISTING LAND USE: Single Family Residence, detached garage.

PROPOSED USE: An addition of a 2nd dwelling unit. (Conversion to Duplex.)

PLANNING STAFF WILL CHECK ONE OR MORE OF THE ITEMS BELOW:

Planning review is NOT required.

Use is NOT allowed; applicant CANNOT submit for plan check.

Requires APPLICATION(s): PC ZA IR ER DR PB

Required Planning application must be submitted *before* project can be submitted for plan check.

Application(s) IN PROGRESS: ER03-094 Submitted May 12, 2003.

Applicant may submit for concurrent building permit plan check, at applicant's risk.
 Building Division must check with Planning staff and/or SITE before issuing building permit.

Application(s) COMPLETED:

Building permit must conform to approved plans and comply with all conditions of approval.
 Do NOT issue building permit prior to end of 10 day appeal period.

Plans may be submitted for plan check. Plan checker(s) shall confirm compliance with Zoning Ordinance requirements and all applicable development standards *prior to issuance* of building permit.

Meets setback & lot coverage requirements as shown on site plan provided.

Plans to be submitted have been stamped/signed by Planning counter staff.

Route to SITE for plan check and inspection.

Preliminary review ONLY; the information on this form **must be reviewed again and confirmed** at the time of building permit submittal.

COMMENTS: Does not meet Design Review checklist. Further staff level review is required.

~~A new site and floor plan will be required before a building permit can be issued. The site plan must clearly show where each unit and where the driveways and garages will be. (Each unit must have one.) A floor plan will be required for the existing unit. The current plans require Zoning Administrator's Special Permit Approval. Void May 23, 2003.~~

New site plan adds the 2nd garage required. Existing unit about 920'. New unit about 975'. New garage 231'. Lot 6970' Lot coverage okay at 30.5%. Setbacks, driveways, garages, paving okay. No other Planning issues apparent. (Possible problem with utility pole near new driveway.)

DATE: 23 May 2003

BY: Robert W. Williams

Department of Planning and Development
 Building Inspection Division
Grading and Erosion Control Questionnaire

To be completed for all residential new construction and additions

PART I (To be completed by applicant)

Site Address 990 ARCADE BLVD A.P.N. 269-0012-012

Applicant Information

Name COLIN HAMMETT
 Address 2180 GEARY RD #9
PLEASANT HILL CA 94523
 Phone 925 457-9801

Project Information (Check One)

Single Family Dwelling
 Duplex
 Triplex
 Deep Lot Development

PART II (To be completed by the applicant when the project is not a part of a larger subdivision)

Are there existing structures on site? Y N
 Does the site front on a paved road? Y N *
 Is the site higher than the crown of adjacent road? Y N *
 Is the proposed building site higher than the back of the sidewalk or curb? Y N *

Describe existing frontage improvements along road.

Ditch * Curb and Gutter Curb, Gutter, and Sidewalk

The direction of drainage on this site is:

Front to Rear * Rear to Front Side to Side *

Does an adjacent site drain across this parcel? Y * N

Does this site have an existing low area or drainage swale? Y * N

Will construction require cut or fill on site? (* >50FT3 or >2FT) Y N

- How much cut? _____ Yards Depth
 - How much fill? _____ Yards Depth

Has building site been previously been filled? Y * N

Will existing drainage be re-routed? Y * N

Do you plan to construct or modify culverts or drainage ditches? Y * N

Print Name COLIN HAMMETT Title _____

Signature [Signature] Date 8.12.03
 Owner or Contractor

PART III (To be completed by staff)

What is the acreage of the parcel to be built on? 0.16 Acres.

If greater than 1/2 acre has an approved erosion and sediment control plan been provided? Y N

If greater than 5 acres has the applicant provided a copy of the State General Permit NOI and the SWPPP? Y N

Is the parcel to be built on part of a larger subdivision? Y N

Subdivision Name: _____

If yes has an approved erosion and sediment control plan been provided? Y N

If the original subdivision is greater than 5 acres has the applicant provided a copy of the State General Permit NOI and the SWPPP? Y N

Is grading and drainage approval required prior to permit issuance? Y N

Approved by: [Signature] Date: 8/12/03

Building permit #: 0308241 R

White Copy - Permit Jacket
 Yellow - Utilities
 Pink - Bldg. Div.

Certification of Compliance

School District Development Fees

Part I—To be completed by APPLICANT

Owner's name Ernie L. Smith
Owners's address 4130 7th St. S. #100
Project address 1100 Broadway Blvd.
Parcel number 5-5-01-012 Lot no. _____
Subdivision name _____ No. of units 1
Applicants signature _____ Title _____
Phone no. _____ Date _____

NOTICE TO APPLICANT: Pursuant to government code section 66020(d), this will serve to notify you that the 90-day approval period in which you may protest the fees or other payment identified above will begin to run on the date in which the building or installation permit for this project is issued or on which they are paid to the district(s) or to another public entity authorized to collect them on behalf of the district(s), whichever is earlier.

Part II—To be completed by BUILDING DEPARTMENT

Plan identification number PT 2241
Building type (check one)
 Residential Apartment/condominium Commercial/industrial
Square feet of chargeable building area 610
Signature/title _____ Date 7-29-03

Part III—To be completed by SCHOOL DISTRICT

School district GJUHSD Cert. no. 64-173
 Exempt-Comments RECEIPT # 1523
Residential/apartment/etc. 696 Square ft. X \$ 2.14 = \$ 1479.44
Commercial/industrial _____ Square ft. X \$ _____ = \$ _____
Total fees collected = \$ 1479.44

This certification covers only the amount of square footage indicated above. Any additions or corrections to the square footage for this project will require an amendment to the Certificate of Compliance.

As the authorized school district official, I hereby certify that the requirements of government code section 65995 and any other authorized requirements have been complied with by the above signed applicant.

Signature Amieit Burns Date 7-12-03

White & Canary-School District • Pink-Building Department • Goldenrod-Applicant

FIELD COPY

Insulation Certificate

This is to certify that insulation has been installed in conformance with the current energy regulations, California Administration code. Title 24, State of California, in the building located at:

Site Address: 990 Arcade Blvd. Sacramento CA
Number Street City State

Ceilings:

Blow: Manufacturer N/A Thickness N/A R / Value N/A
Square Feet N/A # Bags / Lbs. Per Bag N/A

Batts: Manufacturer Johns Manville Thickness 13 R / Value R-38
Batts: Manufacturer Johns Manville Thickness R / Value

Exterior Walls:

Manufacturer Johns Manville Thickness 3.5 R / Value R-13
Manufacturer Johns Manville Thickness R / Value

Floor Insulation:

Manufacturer N/A Thickness N/A R / Value N/A

Air Infiltration: (Title 24)

Yes No

Other: _____

General Contractor: C.D.M. Holding Inc. Lic. #

By: _____ Title: _____ Date: _____

Insulation Contractor: Goldstar Insulation, Inc. Lic. # 797510

By: Jan Newman Title: Office Manager Date: 02/27/04

Monterey SRO Top-Vent Home Furnaces

Model Number		Btu/hr Input Rating	Btu/hr Output Rating	Thermal Efficiency %	AFUE %	Dimensions H x W x D	Gas Connection	Type of Control	Shipping Weight
Natural	Propane								
MONTEREY SRO HOME FURNACES									
2509612	2509611	25,000	19,350	77	71	65 ³ / ₄ " x 16" x 6"	1/2"	Built-In	86 lbs.
2509622	2509621	25,000	19,350	77	71	65 ³ / ₄ " x 16" x 6"	1/2"	Millivolt Wall	86 lbs.
3509612	3509611	35,000	25,930	74	69	65 ³ / ₄ " x 16" x 6"	1/2"	Built-In	88 lbs.
3509622 *	3509621 *	35,000	25,930	74	69	65 ³ / ₄ " x 16" x 6"	1/2"	Millivolt Wall	88 lbs.
MONTEREY SRO HOME FURNACES DUAL SIDED									
5009612	5009611	50,000	38,500	77	69	65 ³ / ₄ " x 16" x 6"	1/2"	Built-In	137 lbs.
5009622	5009621	50,000	38,500	77	69	65 ³ / ₄ " x 16" x 6"	1/2"	Millivolt Wall	137 lbs.
MAGNUM PLUS HOME FURNACE (EQUIPPED WITH CROSSFLOW BLOWER)									
3509922	---	35,000	27,400	78	72	67" x 16" x 11"	1/2"	Millivolt Wall	115 lbs.

* Add .0001 for "Fireplace-in-a-Furnace" look

ELECTRIC COUNTERFLOW										
Model No.	KW Input	Btu/hr Output		Minimum Voltage	Maximum Voltage	Dimensions H X W X D	CFM 115V	Amps	Type of Control	Shipping Weight
		At 240V	At 208V							
3144030**	9.2	31,400	23,600	207	253	72 ¹ / ₂ " x 14 ¹ / ₈ " x 7"	375	40	24V Wall	60 lbs.

** Not available in Canada. Includes lint-free, patented blower system.

ACCESSORIES

Blower

Complete with on/off switch for operation. Improves circulation of warm air and reduces temperature differences in the room.

Model 2901, shipping weight 9 lbs. Two Blowers may be used on 50,000 Btu/hr models.

Model 2907 - Deluxe Blower

Enhanced for increased airflow - 125 CFM, shipping weight 11 lbs.

Contemporary Finish

All models have a light, powder-coat scratch-resistant finish to blend with any decor.

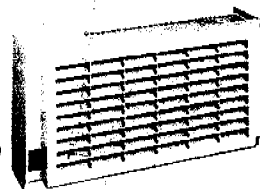
Single and Dual

Heating Outlets

Top View Dual
50,000 Btu/hr



Top View Single
25,000 & 35,000 Btu/hr



Rear-Outlet Register

Chain-operated damper with register flush on rear wall, adjusts amount of heat delivered through rear register. **Model 6901** is for use with Monterey models. Order model 6501 for the Electric model. Shipping weight 7 lbs.



Free Standing Kit

Allows single-sided furnaces to be surface mounted instead of recessed. Ideal for remodeling in existing masonry wall construction or when studding is substandard. **Model 4901**, shipping weight 24 lbs. **Model 4900** does not include vent cover or rails above furnace, shipping weight 11 lbs. **Free Standing Kits not for use with Electric model.**

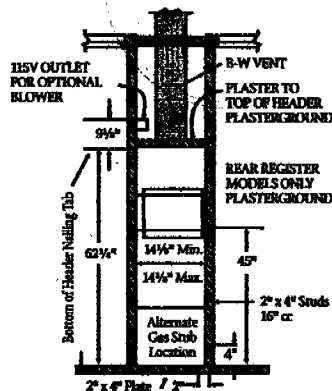
Oval Vent Starter Kit

Contains starter hold down plate, oval to round adapter and two pieces of oval pipe. **Model 9901**, shipping weight 9 lbs.



Conversion Kits Available

- IMPORTANT**
- Read owner's manual before using.
 - Photographs are representative only.
 - Specify propane or natural gas when ordering.
 - Check local codes and ordinances for permitted uses.
 - Consult installation manual for clearances prior to installation.
 - We reserve the right to amend product specifications without notice.
 - Installation and servicing recommended by a qualified service person.
 - Please read the warranty for any limitations or disclaimers. Combustion chamber carries a ten-year limited warranty. All other parts carry a one-year limited warranty.
 - Venting must comply with the "Venting and Chimney Requirements" section of installation manual.



Recommended Minimum Clearances Monterey Models

- 4" to intersecting wall
- 16" from top of appliance to ceiling
- Clearance requirements may vary by area



225 Acacia Street • Colton, CA 92324 • U.S.A.
(909) 825-0993
Fax (909) 370-0581 or (909) 824-8009



COPY COPY

Project Title..... 4/3/03 Date..01/15/04 09:37:41
 Project Address..... 990 Arcade *****
 Sacramento Ca *v6.01*
 Documentation Author... Tami J Nielsen *****
 TJ NRG
 PO Box 344
 Loomis, CA 95650
 (916) 768-2112

Building Permit #
Plan Check / Date
Field Check/ Date

Climate Zone..... 12
 Compliance Method..... MICROPAS6 v6.01 for 2001 Standards by Enercomp, Inc.

MICROPAS6 v6.01 File-03HAMM Wth-CTZ12S92 Program-FORM CF-1R
 User#-MP1205 User-TJ NRG Run-Hammett Residence

GENERAL INFORMATION

Conditioned Floor Area..... 713 sf
 Building Type..... Single Family Detached
 Construction Type Addition Alone
 Building Front Orientation. Front Facing 270 deg (W)
 Number of Dwelling Units... 1
 Number of Stories..... 1
 Floor Construction Type.... Slab On Grade
 Glazing Percentage..... 14.3 % of floor area
 Average Glazing U-factor... 0.5 Btu/hr-sf-F
 Average Glazing SHGC..... 0.45
 Average Ceiling Height..... 8 ft

BUILDING SHELL INSULATION

Component Type	Frame Type	Cavity R-value	Sheathing R-value	Total R-value	Assembly U-factor	Location/Comments
Wall	Wood	R-13	R-0	R-13	0.088	
Roof	Wood	R-38	R-0	R-38	0.029	Attic
Door	None	R-0	R-0	R-0	0.330	Solid Wood, To Garage
SlabEdge	None	R-0	R-0		F2=0.760	To Outside
SlabEdge	None	R-0	R-0		F2=0.510	To Garage

FENESTRATION

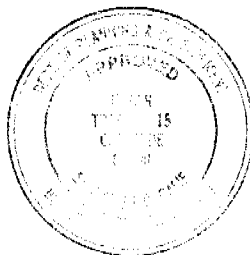
Orientation	Area (sf)	U-Factor	SHGC	Exterior Shading	Overhang/Fins	Location/Comments
Wind Left (N)	28.0	0.500	0.450	Standard	None	Vinyl/Wood Operable
Wind Right (S)	74.0	0.500	0.450	Standard	None	Vinyl/Wood Operable

SLAB SURFACES

Slab Type	Area (sf)
Standard Slab	724

This set of plans and specifications must be kept on the job at all times and it is unlawful to make any changes or alterations from the same without written permission from the Building Inspection Division.

The approval of this plan and specification SHALL NOT be held to constitute approval or violation of any City Ordinance or State Law.



CITY COPY

Project Title..... 4/3/03

Date..01/15/04 09:37:41

MICROPAS6 v6.01 File-03HAMM Wth-CTZ12S92 Program-FORM CF-1R
 User#-MP1205 User-TJ NRG Run-Hammett Residence

W All unit

HVAC SYSTEMS

Equipment Type	Minimum Efficiency	Refrigerant Charge and Airflow	Duct Location	Duct R-value	Tested Duct Leakage	ACCA Manual D	Thermostat Type
Wall NoCooling	<u>0.690 AFUE</u> 10.00 SEER	n/a No	None None	R-n/a R-n/a	n/a n/a	n/a n/a	Setback Setback

WATER HEATING SYSTEMS

Tank Type	Heater Type	Distribution Type	Number in System	Energy Factor	Tank Size (gal)	External Insulation R-value
Water Heater to meet minimum CEC Standards						

SPECIAL FEATURES AND MODELING ASSUMPTIONS

- *** Items in this section should be documented on the plans, ***
- *** installed to manufacturer and CEC specifications, and ***
- *** verified during plan check and field inspection. ***

This building does not have a cooling system installed.

REMARKS

Project Title..... 4/3/03

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User#-MP1205 User-TJ NRG Run-Hammett Residence

COMPLIANCE STATEMENT

This certificate of compliance lists the building features and performance 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. When this certificate of compliance is submitted for a single building plan to be built in multiple orientations, any shading feature that is varied is indicated in the Special Features Modeling Assumptions section.

DESIGNER or OWNER

Name.... Colin Hammett
Company. _____
Address. _____
Phone... _____
License. _____
Signed.. _____
(date)

DOCUMENTATION AUTHOR

Name.... Tami J Nielsen
Company. TJ NRG
Address. PO Box 344
Loomis, CA 95650
Phone... (916) 768-2112
Signed.. *Tami J Nielsen 1/15/04*
(date)

ENFORCEMENT AGENCY

Name.... _____
Title... _____
Agency.. _____
Phone... _____
Signed.. _____
(date)

MANDATORY MEASURES CHECKLIST: RESIDENTIAL

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 TJ NRG
 PO Box 344
 Loomis, CA 95650
 (916) 768-2112
 Climate Zone..... 12
 Compliance Method..... MICROPAS6 v6.01 for 2001 Standards by Enercomp, Inc.

Building Permit #
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MICROPAS6 v6.01 File-03HAMM Wth-CTZ12S92 Program-FORM MF-1R
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Note: Lowrise residential buildings subject to the Standards must contain these measures regardless of the compliance approach used. Items marked with an asterisk (*) may be superseded by more stringent compliance requirements listed on the Certificate of Compliance. 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.

BUILDING ENVELOPE MEASURES

	Design- er	Enforce- ment
*150(a): Minimum R-19 ceiling insulation.	_____	_____
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.	_____	_____
150(l): Slab edge insulation - water absorption rate no greater than 0.3%, water vapor transmission rate no greater than 2.0 perm/inch.	_____	_____
118: Insulation specified or installed meets insulation quality standards. Indicate type and 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.		
150(g): Vapor barriers mandatory in Climate Zones 14 and 16 only.	_____	_____
150(f): Special infiltration barrier installed to comply with Sec. 151 meets Commission quality standards.	_____	_____
150(e): Installation of Fireplaces, Decorative Gas Appliances and Gas Logs	_____	_____
1. Masonry and factory-built fireplaces have:		
a. Closeable metal or glass door		
b. Outside air intake with damper and control		
c. Flue damper and control		
2. No continuous burning gas pilots allowed.	_____	_____

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SPACE CONDITIONING, WATER HEATING AND PLUMBING SYSTEM MEASURES

	Design- er	Enforce- ment
110-113: HVAC equipment, water heaters, showerheads and faucets certified by the 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): Pipe and Tank 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. First 5 feet of pipes closest to water heater tank, non-recirculating systems, insulated (R-4 or greater).		
3. Back-up tanks for solar system, unfired storage tanks, or other indirect hot water tanks have R-12 external insulation or R-16 combined internal/external insulation.		
4. All buried or exposed piping insulated in recirculating sections of hot water system.		
5. Cooling system piping below 55 degrees insulated.		
6. Piping insulated between heating source and indirect hot water tank.		
*150(m): Ducts and Fans	_____	_____
1. All ducts and plenums installed, sealed and insulated, to meet the requirements of the 1998 CMC sections 601, 603, and 604, and standard 6-3; ducts insulated to a minimum installed level of R-4.2 or enclosed entirely in conditioned space. Openings shall be sealed with mastic, tape, aerosol sealant, or other duct-closure system that meets the applicable requirements of UL181, UL181A, or UL181B. 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. Building cavities shall not be used for conveying conditioned air. 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 drawbands.		
2. Exhaust fan systems have backdraft or automatic dampers.		
3. Gravity ventilating systems serving conditioned space have either automatic or readily accessible, manually operated dampers.		
114: Pool and Spa Heating Systems and Equipment	_____	_____
1. System is certified with 78% thermal efficiency, on-off switch, weatherproof operating instructions, no electric resistance heating and no pilot light.		
2. System is installed with:		
a. At least 36 inches 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 central furnaces, pool heaters, spa heaters or household cooking appliances have no continuously burning	_____	_____

Project Title..... 4/3/03

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<p>MICROPAS6 v6.01 File-03HAMM Wth-CTZ12S92 Program-FORM MF-1R User#-MP1205 User-TJ NRG Run-Hammett Residence</p>
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pilot light (Exception: Non-electrical cooking appliances with pilot < 150 Btu/hr).

LIGHTING MEASURES

- 150(k)1: Luminaires for general lighting in kitchens shall have lamps with an efficacy of 40 lumens/watt or greater for general lighting in kitchens. This general lighting shall be controlled by a switch on a readily accessible lighting control panel at an entrance to the kitchen.
- 150(k)2: Rooms with a shower or bathtub must have either at least one luminaire with lamps with an efficacy of 40 lumens/watt or greater switched at the entrance to the room or one of the alternatives to this requirement allowed in Sec. 150(k)2.; and recessed ceiling fixtures are IC (insulation cover) approved.

Design- er	Enforce- ment
_____	_____
_____	_____

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MICROPAS6 ENERGY USE SUMMARY			
Energy Use (kBtu/sf-yr)	Standard Design	Proposed Design	Compliance Margin
Space Heating.....	22.43	17.65	4.78
Space Cooling.....	8.65	6.79	1.86
Water Heating.....	27.81	27.81	0.00
Total	58.89	52.25	6.64

*** Building complies with Computer Performance ***

GENERAL INFORMATION

Conditioned Floor Area..... 713 sf
 Building Type..... Single Family Detached
 Construction Type Addition Alone
 Building Front Orientation. Front Facing 270 deg (W)
 Number of Dwelling Units... 1
 Number of Building Stories. 1
 Weather Data Type..... ReducedYear

Floor Construction Type.... Slab On Grade
 Number of Building Zones... 1
 Conditioned Volume..... 5704 cf
 Slab-On-Grade Area..... 724 sf
 Glazing Percentage..... 14.3 % of floor area
 Average Glazing U-factor... 0.5 Btu/hr-sf-F
 Average Glazing SHGC..... 0.45
 Average Ceiling Height..... 8 ft

BUILDING ZONE INFORMATION

Zone Type	Floor Area (sf)	Volume (cf)	# of Dwell Units	Cond- itioned	Thermostat Type	Vent Height (ft)	Vent Area (sf)	Air Leakage Credit
HOUSE Residence	713	5704	1.00	Yes	Setback	2.0	Standard	No

Project Title..... 4/3/03

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 User#-MP1205 User-TJ NRG Run-Hammett Residence

OPAQUE SURFACES

Surface	Area (sf)	U-factor	Insul R-val	Act Azm	Tilt	Solar Gains	Form 3 Reference	Location/Comments
HOUSE - New								
1 Wall	30	0.088	13	270	90	Yes	W.13.2X4.16	
2 Wall	240	0.088	13	0	90	Yes	W.13.2X4.16	
3 Wall	160	0.088	13	90	90	Yes	W.13.2X4.16	
4 Wall	198	0.088	13	180	90	Yes	W.13.2X4.16	
5 Wall	158	0.088	13	270	90	No	W.13.2X4.16	
6 Roof	730	0.029	38	n/a	0	Yes	R.38.2X12.16	Attic
7 Door	20	0.330	0	270	90	No	None	Solid Wood
8 Door	18	0.330	0	270	90	No	None	To Garage

PERIMETER LOSSES

Surface	Length (ft)	F2 Factor	Insul R-val	Solar Gains	Location/Comments
HOUSE - New					
9 SlabEdge	96	0.760	R-0	No	To Outside
10 SlabEdge	22	0.510	R-0	No	To Garage

FENESTRATION SURFACES

Orientation	Area (sf)	U-factor	SHGC	Act Azm	Tilt	Exterior Shade Type	Location/Comments
HOUSE - New							
1 Wind Left (N)	28.0	0.500	0.450	0	90	Standard Vinyl/Wood	Operable
2 Wind Right (S)	74.0	0.500	0.450	180	90	Standard Vinyl/Wood	Operable

SLAB SURFACES

Slab Type	Area (sf)
HOUSE Standard Slab	724

HVAC SYSTEMS

System Type	Minimum Efficiency	Refrigerant Charge and Airflow	Duct Location	Duct R-value	Tested Duct Leakage	ACCA Manual D	Duct Eff
HOUSE Wall NoCooling	0.690 AFUE 10.00 SEER	n/a No	None None	R-n/a R-n/a	n/a n/a	n/a n/a	1.000 1.000

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WATER HEATING SYSTEMS

<u>Tank Type</u>	<u>Heater Type</u>	<u>Distribution Type</u>	<u>Number in System</u>	<u>Energy Factor</u>	<u>Tank Size (gal)</u>	<u>External Insulation R-value</u>
Water Heater to meet minimum CEC Standards						

SPECIAL FEATURES AND MODELING ASSUMPTIONS

- *** Items in this section should be documented on the plans, ***
- *** installed to manufacturer and CEC specifications, and ***
- *** verified during plan check and field inspection. ***

This building does not have a cooling system installed.

REMARKS

Project Title..... 4/3/03 Date..01/15/04 09:37:41
 Project Address..... 990 Arcade *****
 Sacramento Ca *v6.01*
 Documentation Author... Tami J Nielsen *****
 TJ NRG
 PO Box 344
 Loomis, CA 95650
 (916) 768-2112
 Climate Zone..... 12
 Compliance Method..... MICROPAS6 v6.01 for 2001 Standards by Enercomp, Inc.

Building Permit #
Plan Check / Date
Field Check/ Date

MICROPAS6 v6.01 File-03HAMM Wth-CTZ12S92 Program-HVAC SIZING
 User#-MP1205 User-TJ NRG Run-Hammett Residence

GENERAL INFORMATION

Floor Area..... 713 sf
 Volume..... 5704 cf
 Front Orientation..... Front Facing 270 deg (W)
 Sizing Location..... SACRAMENTO CO
 Latitude..... 38.6 degrees
 Winter Outside Design..... 35 F
 Winter Inside Design..... 70 F
 Summer Outside Design..... 100 F
 Summer Inside Design..... 78 F
 Summer Range..... 32 F
 Interior Shading Used..... No
 Exterior Shading Used..... No
 Overhang Shading Used..... No
 Latent Load Fraction..... 0.20

HEATING AND COOLING LOAD SUMMARY

Description	Heating (Btuh)	Cooling (Btuh)
Opaque Conduction and Solar.....	6568	2340
Glazing Conduction.....	1785	1122
Glazing Solar.....	n/a	1496
Infiltration.....	3611	1380
Internal Gain.....	n/a	2100
Ducts.....	0	0
Sensible Load.....	11965	8438
Latent Load.....	n/a	1688
Minimum Total Load	11965	10126

Note: The loads shown are only one of the criteria affecting the selection of HVAC equipment. Other relevant design factors such as air flow requirements, outside air, outdoor design temperatures, coil sizing, availability of equipment, oversizing safety margin, etc., must also be considered. It is the HVAC designer's responsibility to consider all factors when selecting the HVAC equipment.