

TRANSMISSION VERIFICATION REPORT

TIME : 05/19/2006 13:51  
 NAME : CITY OF SACRAMENTO  
 FAX : 9168085543  
 TEL : 9168085656  
 SER.# : BROH4J832840

DATE, TIME	05/19 13:50
FAX NO./NAME	96865293
DURATION	00:00:45
PAGE(S)	03
RESULT	OK
MODE	STANDARD ECM

**CITY OF SACRAMENTO  
 CASHIER'S WORKSHEET**

**ISSUED  
 CITY OF SACRAMENTO**

MAY 19 2006 *LMC*

**PAID  
 CITY OF SACRAMENTO**

**DOWNTOWN PERMIT  
 CENTER**

MAY 19 2006

NEW CITY HALL

RECEIPT NUMBER: R0609094  
 TRANSACTION DATE: 05/19/2006  
 TRANSACTION AMOUNT: 188.93  
 NOTATION:

APD #: **0607239**  
 SITE ADDRESS: 50 SUMMER RIM CR SAC  
 PARCEL: 117-0340-026

TYPE: Bldg Minor Permit  
 SUB-TYPE: RES  
 HOUSING: N  
 STATUS: **ISSUED**

Mixed Income Housing  
 Fee Program  
 ??

TRANSACTION LIST

Type	Method	Description	Pymt Amount
Payment	Credit C	TEETER	188.93

RECEIPT ACCOUNT ITEM LIST

Class #	Description	Item #	Total Fee	Prev Pymt	Current Pymt
200	Permit--Building-Res	1100	175.00	.00	175.00
206	City Business Oper Tax	1730	2.80	.00	2.80
213	General Plan Surcharge	1760	4.13	.00	4.13
259	Bldg-Technology Surcharg	1750	7.00	.00	7.00

**PAID**  
CITY OF SACRAMENTO

MAY 19 2006

Building Permit **ISSUED**  
CITY OF SACRAMENTO



NEW CITY HALL\*\* Office Use Only \*\*\*\*\*

Permit No: 0607239  
Date Issued: 5-19-2006  
Total Amount: \$188,93  
Imp Area #: 2

MAY 19 2006  
**DOWNTOWN PERMIT CENTER**

*WMC*

Inspection Request # (916) 244-7622

\*\*\*\*\* Please Fill in the Following \*\*\*\*\*

Site Address: 50 Summer Rim Cir.  
Nature of Work: HVAC Changeout

CONSTRUCTION LEADING AGENCY: I hereby affirm under penalty of perjury that there is a construction leading agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C).  
Leader's Name \_\_\_\_\_ Leader'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: C20 C57 License Number: 726129 Date: 5/19/06 Signature: Dhalgyn Masters

OWNER-BUILDER DECLARATION: I hereby affirm under penalty of perjury that I am exempt from the contractor License Law for the following reason (Sec. 7041.5, 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 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 (\$500.00).  
I, as owner of the property, or my employee with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7041, Business and Professions Code). The Contractor 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.  
I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code). The Contractor License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such project with a contractor(s) licensed pursuant to the Contractor License Law.  
I am exempt under Sec. \_\_\_\_\_ B & PC for this request: \_\_\_\_\_  
Date \_\_\_\_\_ 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 any 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 5/19/06 Applicant/Agent Signature Dhalgyn Masters

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: Financial Pacific  
Policy Number: 1703248 Expiration Date: 04-28-05  
(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 workers' compensation laws of California and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.  
Date 5/19/06 Applicant Signature Dhalgyn Masters

WARNING: FAILURE TO SECURE WORKERS' 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.  
THIS PERMIT SHALL EXPIRE BY LIMITATION IF WORK IS NOT COMMENCED WITHIN 180 DAYS.

0607239

Cesar Chavez  
Project Title

58 Summer Rim Cir Sacramento CA 95823  
Project Address

Chalynn Masters 916-685-4616  
Documentation Author Telephone

Prescriptive 12  
Compliance Method (Prescriptive) Climate Zone

6/15/06  
Date

Building Permit #

Plan Check / Date

Field Check / Date

Enforcement Agency Use Only

Alternative Component Package Method: (check one)      C  D      D (Alternative)  
 Package C and Package D choices require HERS rater field verification and/or diagnostic testing (see CF-1R page 3)  
 For Package D Alternative see Appendix B Table 151-C Footnotes 7-14

**GENERAL INFORMATION**

Total Conditioned Floor Area (CFA)     0     ft<sup>2</sup> Average Ceiling Height:     0     ft  
 Maximum Allowed West Facing Fenestration Products Per Table 151-B or 151-C — (5% X CFA)     NA     ft<sup>2</sup>  
 Maximum Allowed Total Fenestration Products Per Table 151-B or 151-C — (20% X CFA)     NA     ft<sup>2</sup>  
 Building Type: (check one or more)  Single Family  Multifamily  Addition  Alteration  
 (If adding fenestration fill out WS-4R, Fenestration Maximum Allowed Area Worksheet and see Section 8.3.2 for Additions and 8.3.3 for Alterations.)  
 Number of Stories:     0     Number of Dwelling Units:     1      
 Floor Construction Type:     0     Slab/Raised Floor (circle one or both)  
 Front Orientation:     0     North / South / East / West / All Orientations (input front orientation in degrees from True North and circle one).

**RADIANT BARRIER** (required in climate zones 2, 4, 8-15)

**OPAQUE SURFACES INCLUDING OPAQUE DOORS**

Component Type (Wall, Roof, Floor, Slab Edge, Doors)	Frame Type (Wood or Metal)	Cavity Insulation R-Value	Continuous Insulation R-Value	Assembly Ufactor (for wood, metal frame and mass assemblies) 1	Joint Appendix IV Reference	Roof Radiant Barrier Installed Yes or No	Location/Comments (attic, garage, typical, etc.)

1) See Joint Appendix IV in Section IV.2, IV.3 and IV.4, which is the basis for the U-factor criterion. U-factors can not exceed prescriptive value to show equivalence to R-values.

Cesar Chavez

58 Summer Rim Cir

6/11/10

Project Title

Date

**FENESTRATION PRODUCTS – U-FACTOR AND SHGC**

FENESTRATION MAXIMUM ALLOWED AREA WORKSHEET WS-4R –must be included for New Construction, Additions and Alterations.

Fenestration #/Type/Pos. (Front, Left, Rear, Right, Skylight)	Orientation, N, S, E, W1	Area (ft2)	U-factor2	U-factor Source3	SHGC4	SHGC Source5	Exterior Shading/Overhangs6, 7 Ck box if WS-3R is included

- 1) Skylights are now included in West-facing fenestration area if the skylights are tilted to the west or tilted in any direction when the pitch is less than 1:12. See §151(f)3C and in Section 3.2.3 of the Residential Manual
- 2) Enter values in this column are either NFRC Rated value or from Standards default Table 116A.
- 3) Indicate source either from NFRC or Table 116A,
- 4) Enter values in this column from NFRC or from Standards Default Table 116B or adjusted SHGC from WS-3R.
- 5) Indicate source either from NFRC or Table 116B.
- 6) Shading Devices are defined in Table 3-3 in the Residential Manual and see WS-3R to calculate Exterior Shading devices.
- 7) See Section 3.2.4 in the Residential Manual.

**HVAC SYSTEMS**

Heating Equipment Type and Capacity furnace, heat pump, boiler, etc.	Minimum Efficiency (AFUE or HSPF)	Distribution Type and Location (ducts, attic, etc.)	Duct or Piping R-Value	Thermostat Type	Configuration (split or package)
Furnace	80.00 AFUE	Attic	R 4.2	Programable	Split
70 kBTU					

Cooling Equipment Type and Capacity (A/C, Heat Pump, Evap Cool)	Minimum Efficiency (SEER or EER)	Duct Location (attic, etc.)	Duct R-Value	Thermostat Type	Configuration (split or package)
A/C	15.00 SEER 12.50 EER	Attic	R 4.2	Programable	Split
36 kBTU					

Cesar Chavez

58 Summer Rim Cir

6/15/00  
Date

Project Title

**SEALED DUCTS and TXVs (or Alternative Measures)**

A signed CF-4R Form must be provided to the building department for each home for which the following are required.

- Sealed Ducts (all climate zones) (Installer testing and certification and HERS rater field verification required.)
- TXVs, readily accessible (climate zones 2 and 8-15 only) (Installer testing and certification and HERS Rater field verification required.)
- Refrigerant Charge (climate zones 2 and 8-15 only) (Installer testing and certification and HERS Rater field verification required.)

OR

- Alternative to Sealed Ducts and Refrigerant Charge /TXVs (See Package D Alternative Package Features for Project Climate Zone in the RM Appendix B Table 151-C, Footnotes 7-14.

OR

- For additions and alterations, duct systems that are not documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Residential ACM Manual and duct systems with more than 40 linear feet in unconditioned spaces shall meet the requirements of Section 150(m) and duct insulation requirements of Package D.

**WATER HEATING SYSTEMS**

- Check box if system meets criteria of a "Standard" system. Standard system is one gas-fired water heater per dwelling unit. If the water heater is a storage type, 50 gallons is the maximum capacity and recirculation system is not allowed.
- Check box when using Preapproved Alternative Water Heating table, Table 5-4 in Chapter 5 in the Residential Manual. No water heating calculations are required, and the system complies automatically.
- Check box if system does not meet criteria of "Standard" system, and does not comply with the Preapproved Alternative Water Heating table. In this case, the Performance Method must be used and must be included in the submittal.
- Check box to verify that a time control is required for a recirculating system pump for a system serving multiple units

**Systems serving single dwelling units**

Water Heater Type/Fuel Type	Distribution Type	Number in System	Rated Input <sup>1</sup> (kW or Btu/hr)	Tank Capacity (gallons)	Energy Factor <sup>1</sup> or Thermal Efficiency	Standby <sup>1</sup> Loss (%)	Tank External Insulation R-Value

**System serving multiple dwelling units**

Water Heater Type/Fuel Type	Distribution Type	Number in System	Rated Input <sup>1</sup> (kW or Btu/hr)	Tank Capacity (gallons)	Energy Factor <sup>1</sup> or Thermal Efficiency	Standby <sup>1</sup> Loss (%)	Tank External Insulation R-Value

<sup>1</sup> For small gas storage water heaters (rated inputs of less than or equal to 75,000 Btu/hr), electric resistance, and heat pump water heaters, list Energy Factor. For large gas storage water heaters (rated input of greater than 75,000 Btu/hr), list Rated Input, Recovery Efficiency, Thermal Efficiency and Standby Loss. For instantaneous gas water heaters, list Rated Input and Thermal Efficiencies.

**Pipe Insulation** (kitchen lines > 3/4 inches) All hot water pipes from the heating source to the kitchen fixtures that are 1/2 inches or greater in diameter shall be thermally insulated as specified by Section 150 (j) 2 A or 150 (j) 2 B.

Cesar Chavez

58 Summer Rim Cir

01/15/06

Project Title

Date

**SPECIAL FEATURES NOT REQUIRING HERS VERIFICATION (add extra sheets if necessary)**

Indicate which special features are part of this project. The list below represents special features relevant to the Prescriptive and Performance Method.

	Feature	Required Forms (if applicable)	Description
<input type="checkbox"/>	Metal Framed Walls	CF-1R	
<input type="checkbox"/>	Radiant Barriers	CF-1R	
<input type="checkbox"/>	Exterior Shades	WS-4R N/A; Performance Calculation	
<input type="checkbox"/>	Cool Roof	Required. Attach CRRR Label to Forms.	
<input type="checkbox"/>	Dedicated Hydronic Heating System	Performance Calculation Required; Attach Run to Forms.	
<input type="checkbox"/>	Combined Hydronic System	Performance Calculation Required; Attach Run to Forms.	
<input type="checkbox"/>	Gas Cooling	N/A; Performance Calculation Required.	
<input type="checkbox"/>	Buried Ducts	N/A; Indicate on building plans.	
<input type="checkbox"/>	Kitchen Pipe Insulation	See Section 5.6.2 Distribution Systems in Residential Manual.	
<input type="checkbox"/>	Multiple Water Heaters Per Dwelling Unit	See Table 5-13 or use Performance Calculation and attach Run to Forms.	
<input type="checkbox"/>	Central Water Heating System Serving Multiple Dwellings	Performance Calculation and attach Run to Forms.	
<input type="checkbox"/>	Non-NAECA Large Water Heater	CF-1R	
<input type="checkbox"/>	Indirect Water Heater	See Table 5-13 or use Performance Calculation and attach Run to Forms	
<input type="checkbox"/>	Instantaneous Gas Water Heater	See Table 5-13 or use Performance Calculation and attach Run to Forms	
<input type="checkbox"/>	Solar Water Heating System	See Table 5-13 or use Performance Calculation and attach Run to Forms	
<input type="checkbox"/>	Wood Stove Boiler	Performance Calculation and attach Run to Forms	

**SPECIAL FEATURES REQUIRING HERS RATER VERIFICATION**

(add extra sheets if necessary) Indicate to the HERS Rater which credits are part of this project and need verification.

	Feature	Required Forms (if applicable)	Description
<input type="checkbox"/>	Duct Sealing	CF-6R part 4 of 12	
<input type="checkbox"/>	Refrigerant Charge	CF-6R part 5 of 12	
<input type="checkbox"/>	Thermostatic Expansion Valve	CF-6R part 6 of 12	

Cesar Chavez

58 Summer Rim Cir

6/15/10

Project Title

Date

**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 and Professions Code)

Documentation Author

Name: Chalynn Masters	Name: Chalynn Masters
Title/Firm: Bell Bros Heating & Air	Title/Firm: Bell Bros Heating & Air
Address: 9195 Survey Rd Elk Grove CA 95624	Address: 9195 Survey Rd Elk Grove CA 95624
Telephone: 916-685-4616	Telephone: 916-685-4616
License #: 726129	
<i>Chalynn Masters 6/15/10</i> (signature) (date)	<i>Chalynn Masters 6/15/10</i> (signature) (date)

**Enforcement Agency**

Name:	Comments:
Title	
Agency:	
Telephone:	
(signature / stamp) (date)	

**CERTIFICATE OF FIELD VERIFICATION & DIAGNOSTIC TESTING (Page 1 of 8) CF-4R**

<u>58 Summer Rim Cir</u> Project Address	<u>Bell Bros Heating &amp; Air / 726129</u> Contractor Name / License No.
	<u>06-07239</u> Permit Number
<u>Contractor Contact</u>	<u>Telephone</u>
<u>John Gustason</u>	<u>916-768-9459</u>
<u>HERS Rater</u>	<u>29675</u> Sample Group Number
<u>HERS Rater Signature</u>	<u>May 25, 2006</u> Date
<u>CC14-1798370258</u> Certificate Number	
<u>Energy Analysis and Comfort Solutions,</u> Inc.	HERS Provider: <b>CalCERTS</b>
<u>PO Box 2233</u> Street Address:	<u>Orangevale / CA / 95662</u> City/State/Zip:

Copies to: Homeowner, HERS Provider and Building Department  
 This CF-4R has been registered with the CalCERTS® registry in accordance with the Title 24 & Title 20 of the CCR.  
 CalCERTS® is an approved HERS provider by the California Energy Commission.

**HERS RATER COMPLIANCE STATEMENT**

The house was  Tested  Approved as part of sample testing, but was not tested.  
 As the HERS rater providing diagnostic testing and field verification, I certify that the house identified on this form complies with the diagnostic tested compliance requirements as checked on this form. The HERS rater must check and verify that the new distribution system is fully ducted and correct tape is used before a CF-4R may be released on every tested building. The HERS rater must not release the CF-4R until a properly completed and signed CF-6R has been received for the sample and tested buildings.

- The installer has provided a copy of the CF-6R (Installation Certificate).
- New Distribution system is fully ducted (i.e., does not use building cavities as plenums or platform returns in lieu of ducts).
- New systems where cloth backed, rubber adhesive duct tape is installed, mastic and drawbands are used in combination with cloth backed, rubber adhesive duct tape to seal leaks at duct connections.

**MINIMUM REQUIREMENTS FOR DUCT LEAKAGE REDUCTION COMPLIANCE CREDIT:**

NEW CONSTRUCTION		
#	Description	Measured Values
	Duct Pressurization Test Results (CFM @ 25 Pa)	
1	Enter Tested Leakage Flow in CFM:	N/A
2	Fan Flow: Calculated (Nominal <input checked="" type="radio"/> Cooling <input checked="" type="radio"/> Heating) or <input checked="" type="radio"/> Measured Enter Total Fan Flow in CFM:	Not Tested
3	Pass if leakage Percentage <= 6% [ 100 x ( Line 1 / Line 2 ) ]:	N/A      N/A
ALTERATIONS: Duct System and/or HVAC Equipment Change-Out		
4	Enter Tested Leakage Flow in CFM from CF-6R: Pre-Test of Existing Duct System Prior to Duct System Alteration and/or Equipment Change-Out.	Not Tested
5	Enter Tested Leakage Flow in CFM: Final Test of New Duct System or Altered Duct System for Duct System Alteration and/or Equipment Change-Out.	Not Tested
6	Enter Reduction in Leakage for Altered Duct System [Line 4 - Line 5] - (Only if Applicable)	Not Tested
7	Enter Tested Leakage Flow in CFM to Outside (Only if Applicable)	Not Tested
8	Entire New Duct System - Pass if Leakage Percentage <= 6% [ 100 x ( Line 5 / Line 2 ) ]:	Not Tested <input type="checkbox"/> Pass <input type="checkbox"/> Fail
TEST OR VERIFICATION STANDARDS: For Altered Duct System and/or HVAC Equipment Change-Out, use one of the following four Test or Verification Standards for compliance:		
9	Pass if Leakage Percentage <= 15% [ 100 x ( Line 5 / Line 2 ) ]:	Not Tested <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
10	Pass if Leakage to Outside Percentage <= 10% [ 100 x ( Line 7 / Line 2 ) ]:	Not Tested <input type="checkbox"/> Pass <input type="checkbox"/> Fail
11	Pass if Leakage Reduction Percentage >= 60% [ 100 x ( Line 6 / Line 4 ) ] and Verification by Smoke Test and Visual Inspection	Not Tested <input type="checkbox"/> Pass <input type="checkbox"/> Fail
12	Pass if Sealing of all Accessible Leaks and Verification by Smoke Test and Visual Inspection	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
Pass if One of Lines #9 through #12 pass		<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail



**CERTIFICATE OF FIELD VERIFICATION & DIAGNOSTIC TESTING (Page 3-4 of 8)**

CF-4R

58 Summer Rim Cir  
Project Address

Bell Bros Heating & Air / 726129  
Contractor Name / License No.

06-07239  
Permit Number

John Gustason  
Contractor Contact Telephone 916-768-9459 29675

HERS Rater  
Telephone 916-768-9459 29675

Sample Group Number  
CC14-1798370258

May 25, 2006  
Date

CC14-1798370258  
Certificate Number

Energy Analysis and Comfort Solutions,  
Inc.  
Street Address: PO Box 2233

HERS Provider: CalCERTS  
City/State/Zip: Orangevale / CA / 95662

Copies to: Homeowner, HERS Provider and Building Department  
 This CF-4R has been registered with the CalCERTS® registry in accordance with the Title 24 & Title 20 of the CCR.  
 CalCERTS® is an approved HERS provider by the California Energy Commission.

**HERS RATER COMPLIANCE STATEMENT**  
 The house was  Tested  Approved as part of sample testing, but was not tested.  
 As the HERS rater providing diagnostic testing and field verification, I certify that the house identified on this form complies with the diagnostic tested compliance requirements as checked on this form.  
 The installer has provided a copy of the CF-6R (Installation Certificate).

**THERMOSTATIC EXPANSION VALVE (TXV):**  
 Access is provided for inspection. The procedure shall consist of visual verification that the TXV is installed on the system and installation of the specific equipment shall be verified.

HVAC System TXV  Pass  Fail

58 Summer Rim Cir

Sacramento CA

95823

06-07239

Site Address

Permit Number

An installation certificate is required to be posted at the building site or made available for all appropriate inspections. (The information provided on this form is required) After completion of final inspection, a copy must be provided to the building department (upon request) and the building owner at occupancy, per Section 10-103(a).

**HVAC SYSTEMS:**

Heating Equipment

Equip Type (pkg. heat pump)	CEC Certified Mfr. Name, Model and Serial Number	# of Identical Systems	Efficiency (AFUE, etc.) <sup>1</sup> >(CF-1R value)	Duct Location (attic, etc.)	Duct or Piping R-value	Heating Load (Btu/hr)	Heating Capacity (Btu/hr)
Split	GOODMAN	1	80.00 AFUE	Attic	R 4.2	0	70000
	GMV80704BX						

Cooling Equipment

Equip Type (pkg. heat pump)	CEC Certified Mfr. Name, Model and Serial Number	# of Identical Systems	Efficiency (AFUE, etc.) <sup>1</sup> >(CF-1R value)	Duct Location (attic, etc.)	Duct or Piping R-value	Cooling Load (Btu/hr)	Cooling Capacity (Btu/hr)
Split	GOODMAN	1	15.00 SEER	Attic	R 4.2	0	36000
	CLQ36-1		12.50 EER				
Coil	ADP						
	JE48436						

1. > symbol reads greater than or equal to what is indicated on the CF-1R value.  
Include both SEER and EER if compliance credit for high EER air conditioner is claimed.

I, the undersigned, verify that equipment listed above is: 1) is the actual equipment installed, 2) equivalent to or more efficient than that specified in the certificate of compliance (Form CF-1R) submitted for compliance with the Energy Efficiency Standards for residential buildings, and 3) equipment that meets or exceeds the appropriate requirements for manufactured devices (from the Appliance Efficiency Regulations or Part 6), where applicable.

*Chalyn Proaster 6/15/06*  
Signature, Date

**Bell Bros Heating & Air**

Installing Subcontractor (Co. Name)

40001

OR General Contractor (Co. Name) OR Owner

1209

COPY TO: Building Department  
HERS Rater (if applicable)  
Building Owner at Occupancy

## INSTALLER COMPLIANCE STATEMENT FOR DUCT LEAKAGE

Copies to: Builder, HERS Rater, Building Owner at Occupancy and Building Department

### INSTALLER COMPLIANCE STATEMENT

The building was:  Tested at Final  Tested at Rough-in

#### INSTALLER VISUAL INSPECTION AT FINAL CONSTRUCTION STAGE:

- Remove at least one supply and one return register, and verify that the spaces between the register boot and the interior finishing wall are properly sealed.
- If the house rough-in duct leakage test was conducted without an air handler installed, inspect the connection points between the air handler and the supply and return plenums to verify that the connection points are properly sealed.
- Inspect all joints to ensure that no cloth backed rubber adhesive duct tape is used

#### DUCT LEAKAGE REDUCTION

Procedures for field verification and diagnostic testing of air distribution systems are available in RACM, Appendix RC4.3

NEW CONSTRUCTION:		Measured Values	
Duct Pressurization Test Results (CFM @ 25 Pa)			
1 Enter Tested Leakage Flow in CFM:			
2 Fan Flow: Calculated (Nominal: <input checked="" type="checkbox"/> Cooling <input type="checkbox"/> Heating) or <input type="checkbox"/> Measured If Fan Flow is Calculated as 400 cfm/ton x number of tons or as 21.7 cfm/(kBtu/hr) x Heating Capacity in Thousands of Btu/hr, enter total calculated or measured fan flow in CFM here:		1200	
3 Pass if Leakage Percentage < 6% for Final or < 4% at Rough-In: [100 x [ (Line # 1) / (Line # 2) ]]			<input type="checkbox"/> Pass <input type="checkbox"/> Fail
<b>ALTERATIONS: Duct System and/or HVAC Equipment Change-Out</b>			
4 Enter Tested Leakage Flow in CFM from Pre-Test of Existing Duct System Prior to Duct System Alteration and/or Equipment Change-Out.			
5 Enter Tested Leakage Flow in CFM from Final Test of New Duct System or Altered Duct System for Duct System Alteration and/or Equipment Change-Out.		110	
6 Enter Reduction in Leakage for Altered Duct System [ (Line # 4) Minus (Line # 5) ] - (Only if Applicable)			
7 Enter Tested Leakage Flow in CFM to Outside (Only if Applicable)			
8 Entire New Duct System - Pass if Leakage Percentage < 6% for Final or < 4% at Rough-In [100 x [ (Line # 5) / (Line # 2) ]]			<input type="checkbox"/> Pass <input type="checkbox"/> Fail
<b>TEST OR VERIFICATION STANDARDS: For Altered Duct System and/or HVAC Equipment Change-Out</b>			
Use one of the following four Test or Verification Standards for compliance:			
9 Pass if Leakage Percentage < 15% [100 x [ (Line # 5) / (Line # 2) ]]		9.17	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
10 Pass if Leakage to Outside Percentage < 10% [100 x [ (Line # 7) / (Line # 2) ]]			<input type="checkbox"/> Pass <input type="checkbox"/> Fail
11 Pass if Leakage Reduction Percentage > 60% [100 x [ (Line # 6) / (Line # 4) ]] and Verification by Smoke Test and Visual Inspection			<input type="checkbox"/> Pass <input type="checkbox"/> Fail
12 Pass if Sealing of all Accessible Leaks and Verification by Smoke Test and Visual Inspection			<input type="checkbox"/> Pass <input type="checkbox"/> Fail
Pass if One of Lines # 9 through # 12 pass			<input type="checkbox"/> Pass <input type="checkbox"/> Fail

I, the undersigned, verify that the above diagnostic test results were performed in conformance with the requirements for compliance credit. I, the undersigned, also certify that the newly installed or retrofit Air-Distribution System Ducts, Plenums and Fans comply with Mandatory requirements specified in Section 150 (m) of the 2005 Building Energy Efficiency Standards.

*Orlando Prater 6/15/00*  
Signature Date

Bell Bros Heating & Air

Installing Subcontractor (Co. Name) OR  
General Contractor (Co. Name)

40001  
1209

58 Summer Rim Cir

Sacramento CA 95823

06-07239

Site Address

Permit Number

THERMOSTATIC EXPANSION VALVE (TXV)

Procedures for field verification of thermostatic expansion valves are available in RACM, Appendix RI.

<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Access is provided for inspection. The procedure shall consist of visual verification that the TXV is installed on the system and installation of the specific equipment shall be verified.		
Yes is a pass			<input checked="" type="checkbox"/> Pass	<input type="checkbox"/> Fail

REFRIGERANT CHARGE MEASUREMENT

Verification for Required Refrigerant Charge and Adequate Airflow for Split System Space Cooling Systems without Thermostatic Expansion Valves

Outdoor Unit Serial #	
Location	
Outdoor Unit Make	
Outdoor Unit Model	
Cooling Capacity	Btu/hr
Date of Verification	
Date of Refrigerant Gauge Calibration	(must be checked monthly)
Date of Thermocouple Calibration	(must be checked monthly)

Standard Charge Measurement Procedure (outdoor air dry-bulb 55oF and above):

Procedures for Determining Refrigerant Charge using the Standard Method are available in RACM, Appendix RD2.

Note: The system should be installed and charged in accordance with the manufacturer's specifications before starting this procedure.

Measured Temperatures

Supply (evaporator leaving) air dry-bulb temperature (Tsupply, db)		F
Return (evaporator entering) air dry-bulb temperature (Treturn, db)		F
Return (evaporator entering) air wet-bulb temperature (Treturn, wb)		F
Evaporator saturation temperature (Tevaporator, sat)		F
Suction line temperature (Tsuction, db)		F
Condenser (entering) air dry-bulb temperature (Tcondenser, db)		F

Superheat Charge Method Calculations for Refrigerant Charge

Actual Superheat = Tsuction, db - Tevaporator, sat		F
Target Superheat (from Table RD-2)		F
Actual Superheat - Target Superheat (System passes if between -5 and +5°F)		F

Temperature Split Method Calculations for Adequate Airflow

Split Method Calculation is not necessary if Adequate Airflow credit is taken

Actual Temperature Split = T return, db - Tsupply, db		F
Target Temperature Split (from Table RD3)		F
Actual Temperature Split - Target Temperature Split (System passes if between -3°F and +3°F or, upon remeasurement, if between -3°F and -100°F)		F

**INSTALLATION CERTIFICATE**

(Page 6 of 12)

CF- 6R

58 Summer Rim Cir

Sacramento CA

95823

06-07239

Site Address

Permit Number

**Standard Charge Measurement Summary:**

System shall pass both refrigerant charge and adequate airflow calculation criteria from the same measurements. If corrective actions were taken, both criteria must be remeasured and recalculated.

<input type="checkbox"/>	Yes	<input type="checkbox"/>	No	System Passes
--------------------------	-----	--------------------------	----	---------------

**Alternate Charge Measurement Procedure (outdoor air dry-bulb below 55 oF)**

Note: The system should be installed and charged in accordance with the manufacturer's specifications and installer verification shall be documented on CF-6R before starting this procedure. If outdoor air dry-bulb is 55 oF or above, installer shall use the Standard Charge Measure Procedure:

Procedures for Determining Refrigerant Charge using the Alternate Method are available in RACM, Appendix RD3. Weigh-In Charging Method for Refrigerant Charge

Actual liquid line length:		ft
Manufacturer's Standard liquid line length:		ft
Difference (Actual - Standard):		ft
Manufacturer's correction (ounces per foot) _____ x difference in length = _____ ounces (+ = add) (- = remove)		

Measured Airflow Method for Adequate Airflow Verification available in RACM, Appendix RD2.6

Calculated Airflow: Cooling Capacity (Btu/hr)	X 0.033 (cfm/Btu-hr) =	CFM
Measured Airflow is	CFM (Measured airflow must be greater than the calculated airflow).	

**Alternate Charge Measurement Summary:**

System shall pass both refrigerant charge and adequate airflow calculation criteria from the same measurements. If corrective actions were taken, both criteria must be remeasured and recalculated.

<input type="checkbox"/>	Yes	<input type="checkbox"/>	No	System Passes
--------------------------	-----	--------------------------	----	---------------

*Chalyn Prater 6/15/06*  
Signature, Date

**Bell Bros Heating & Air**

Installing Subcontractor (Co. Name) OR

40001

General Contractor (Co. Name) OR Owner

1209

COPY TO: Building Department  
HERS Rater (if applicable)  
Building Owner at Occupancy

58 Summer Rim Cir

Sacramento CA

95823

06-07239

Site Address

Permit Number

**FAN WATT DRAW**

Procedures for measuring the air handler watt draw are available in RACM, Appendix RE3.2.

Method For Fan Watt Draw Measurement			
<input type="checkbox"/>	<input type="checkbox"/>	RE3.2.1	Portable Watt Meter Measurement
<input type="checkbox"/>	<input type="checkbox"/>	RE3.2.2	Utility Revenue Meter Measurement
Measured Fan watt Draw:		Enter results of Watts/cfm:	
Measured Fan Flow (Enter total cfm from airflow verification)		Enter results of Watts/cfm:	
<input type="checkbox"/> Yes	<input type="checkbox"/> No	Calculated fan watt/cfm is equal to or lower than the fan watt/cfm draw documented in CF-1R	
Yes is a pass		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail

**ADEQUATE AIRFLOW VERIFICATION**

Procedures for field verification and diagnostic testing of adequate airflow are available in RACM, Appendix RE4.1.

Method For Airflow Measurement			
<input type="checkbox"/>	<input type="checkbox"/>	Yes	No
Duct design exists on plans			
<input type="checkbox"/>	<input type="checkbox"/>	RE4.1.1	Diagnostic Fan Flow Using Flow Capture Hood
<input type="checkbox"/>	<input type="checkbox"/>	RE4.1.2	Diagnostic Fan Flow Using Plenum Pressure Matching
<input type="checkbox"/>	<input type="checkbox"/>	RE4.1.3	Diagnostic Fan Flow Using Flow Grid Measurement
Measured Airflow:			cfm/ton
<input type="checkbox"/>	<input type="checkbox"/>	Yes	No
Measured airflow is greater than the criteria in Table RE-2			
Yes is a pass		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail

**MAXIMUM COOLING CAPACITY**

Procedures for determining maximum cooling load capacity are available in RACM, Appendix RF3.

1	<input type="checkbox"/>	<input type="checkbox"/>	Yes	No	Adequate airflow verified (see adequate airflow credit)	
2	<input type="checkbox"/>	<input type="checkbox"/>	Yes	No	Refrigerant charge or TXV	
3	<input type="checkbox"/>	<input type="checkbox"/>	Yes	No	Duct leakage reduction credit verified	
4	<input type="checkbox"/>	<input type="checkbox"/>	Yes	No	Cooling capacities of installed systems are $\leq$ to maximum cooling capacity indicated on the Performance's CF-1R and RF-3.	
5	<input type="checkbox"/>	<input type="checkbox"/>	Yes	No	If the cooling capacities of installed systems are $>$ than maximum cooling capacity in the CF-1R, then the electrical input for the installed systems must be $\leq$ to electrical input in the CF-1R.	
Yes to 1, 2, and 3; and Yes to either 4 or 5 is a pass						
					<input type="checkbox"/> Pass	<input type="checkbox"/> Fail

**HIGH EER AIR CONDITIONER**

Procedures for verification are available in RACM, Appendix RI.

1	<input type="checkbox"/>	<input type="checkbox"/>	Yes	No	EER values of installed systems match the CF-1R	
2	<input type="checkbox"/>	<input type="checkbox"/>	Yes	No	For split system, indoor coil is matched to outdoor coil	
3	<input type="checkbox"/>	<input type="checkbox"/>	Yes	No	Time Delay Relay Verified (If Required)	
Yes to 1 and 2; and 3 (If Required) is a pass						
					<input type="checkbox"/> Pass	<input type="checkbox"/> Fail

*Chalique Water 6/15/14*

Bell Bros Heating & Air

Tests

Performed

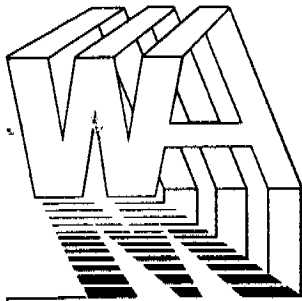
Signature, Date

Installing Subcontractor (Co. Name) OR  
General Contractor (Co. Name)

40001

1209

COPY TO: Building Department, HERS Rater, Building Owner at Occupancy



copy 0420346  
6303 Folsom BL

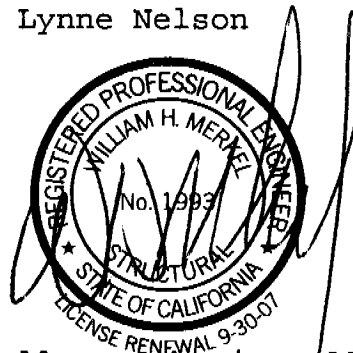
**WILLIAM MERKEL ASSOCIATES STRUCTURAL ENGINEERING**

2804 Fulton Ave. • Sacramento, CA 95821 • (916) 481-1962 • Fax (916) 481-0161  
e-mail: WMASE@pacbell.net

February 24, 2006

Project Name: Law Office of Patricia Lynne Nelson  
Folsom Blvd.  
Sacramento, CA

Project No. WMA04111

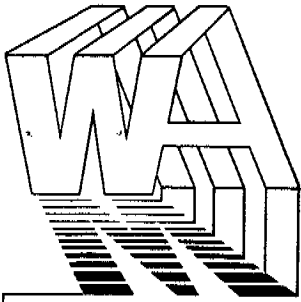


**Structural Clarification:**

The plywood shear panels at exterior walls may be installed to the interior face of the studs. Shear shall be transferred to the footing stemwall below via edge nailing from plywood into the studwall ~~mudsill plate~~, nailing shall occur from the mudsill plate to the rimjoist below as shown in detail J on sheet S-2 of the permitted set of construction documents. The rimjoist shall be anchored to the concrete stemwall nailer by use of Simpson A34 clips @ 12" o.c.

New ponywall framing atop existing framed walls has created a hinge where the studs are discontinuous through the existing double top plates. Simpson H2 ties shall be installed across this discontinuity such that one end of the tie nails to the lower existing stud and the other end nails to the upper new ponywall stud. Upper studs shall align with lower studs and contractor shall field locate additional studs as required. Every stud discontinuity shall receive a H2 tie, and ties shall be installed to alternating sides of the studwall.

The offset in elevation at the existing exterior stud wall framing will not affect the structural integrity of the building. A new pony wall has created a continuous double top plate at the rafter bearing point and thus creates the chord member needed for the strength of the diaphragm.



**WILLIAM MERKEL ASSOCIATES STRUCTURAL ENGINEERING**

2804 Fulton Ave. • Sacramento, CA 95821 • (916) 481-1962 • Fax (916) 481-0161  
e-mail: WMASE@pacbell.net

March 1, 2006

Project Name: Law Office of Patricia Lynne Nelson  
Folsom Blvd.  
Sacramento, CA

Project No. WMA04111

**Structural Clarification:**

The 5'-0" plywood shear panel adjacent to the fireplace may be reduced to 4'-0". No alteration of nailing or addition of holddowns are required.





**APPLICATION FOR COMMERCIAL BUILDING PERMIT**

**CITY OF SACRAMENTO**  
**PLANNING & BUILDING DEPARTMENT**  
 1231 I Street, Suite 200 or 2101 Arena Bl., 200  
 Sacramento, CA 95814 Sacramento, CA 95834  
 (916) 264-5656, 1-866 EZ PERMIT or www.cityofsacramento.org

<b>ACTIVITY #</b> 0420346	<b>Insp. Area</b> 1
------------------------------	------------------------

Applicant to complete all areas down to valuation

**ADDRESS** 5303 Folsom Blvd Sacramento CA 95819 Suite \_\_\_\_\_  
**PARCEL #** 008-0351-41

<b>CONTACT</b>		<b>LICENSED CONTRACTOR</b> Lic No. # _____	
Name _____	Street Address <u>see owner</u>	Name _____	Address <u>N/A</u>
City/State/Zip _____	Phone _____ FAX _____	City/State/Zip _____	Phone _____ FAX _____
E-mail: _____		E-mail: _____	
<b>ARCHITECT/ENGINEER</b>		<b>OWNER</b>	
Name <u>JEFFREY A. STOWELL</u>	Address <u>910 X ST, STE 200</u>	Name <u>Patricia Nelson &amp; Tracy Hancock</u>	Address <u>5732 Lonsdale Drive</u>
City/State/Zip <u>SAC, CA 95818</u>	Phone <u>736-3100</u> FAX <u>736-3003</u>	City/State/Zip <u>Sacramento CA 95822</u>	Phone <u>422-5167</u> FAX <u>498-0127</u>
E-mail: <u>jstowell@silvastowell.com</u>		E-mail: <u>PNelson@sacramentoattorneys.net</u>	

→ Will permittee have any employees on the jobsite?  No  Yes → **INSURANCE CO:** \_\_\_\_\_  
 → **WORKER'S COMPENSATION POLICY #** \_\_\_\_\_ **EXPIRATION DATE:** \_\_\_\_\_

**NATURE OF WORK IN DETAIL:** REMODEL OF AN EXISTING RESIDENTIAL UNIT INTO COMMERCIAL (OFFICE)

**OCCUPANT/TENANT:** \_\_\_\_\_ **VALUATION: \$** 75,000

<b>FLOOD STATUS</b>		<b>S.C.A.T.</b>								
<b>JOB DESCRIPTION</b>		BLDG <input type="checkbox"/>	SHELL <input type="checkbox"/>	APT <input type="checkbox"/>	TI ( ) <input type="checkbox"/>	REM ( ) <input type="checkbox"/>	SW <input type="checkbox"/>	FIRE <input type="checkbox"/>	ADD <input type="checkbox"/>	OTHER <input type="checkbox"/>
<b>INSPECTION DISCIPLINES</b>		BLDG	MECH	PLUMB	ELEC	SITE	FIRE			
# Stories	1 <sup>st</sup> flr Area	Total Area	Use Zone	Occp Group	Const type	Fire Req. Y/N		Fed Code	Vio. File	
						SPR	ALARM		PW	UTIL
<b>B</b>	<b>L</b>	<b>P</b>	<b>M</b>	<b>E</b>	<b>F</b>	<b>S</b>		<b>D</b>	<b>PW</b>	<b>UTIL</b>

**COMMENTS:**  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**REGIONAL SANITATION FEES?**  Yes  No      **HEALTH DEPARTMENT?**  Yes  No  
**WATER FLOW TEST FOR NEW BUILDINGS OR ADDITIONS?**  Yes  No

City of Sacramento Planning Division  
**PLANNING REVIEW FOR BUILDING PERMIT SUBMITTAL**

ADDRESS: 5303 Folsom Blvd.	APN: 008-0351-041
DRPB AREA / PUD / SPD: None	ZONING: C-2
EXISTING LAND USE: SFR with detached garage and carport	
PROPOSED USE: Demo garage and carport (requires Preservation review), change use to commercial office	
<b>PLANNING STAFF WILL CHECK ONE OR MORE OF THE ITEMS BELOW:</b>	
<input type="checkbox"/>	Planning review is NOT required.
<input type="checkbox"/>	Use is NOT allowed; applicant CANNOT submit for plan check.
<input type="checkbox"/>	Requires APPLICATION(s): PC      ZA      IR      ER      DR      PB
Required Planning application must be submitted <i>before</i> project can be submitted for plan check.	
<input type="checkbox"/>	<b>Application(s) IN PROGRESS:</b>
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.	
<input type="checkbox"/>	<b>Application(s) COMPLETED:</b>
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.	
<input checked="" type="checkbox"/>	<b>Plans may be submitted for plan check.</b> Plan checker(s) shall confirm compliance with Zoning Ordinance requirements and all applicable development standards <i>prior to issuance</i> of building permit.
<input type="checkbox"/>	Meets setback & lot coverage requirements as shown on site plan provided.
<input type="checkbox"/>	Plans to be submitted have been stamped/signed by Planning counter staff.
<input checked="" type="checkbox"/>	<b>Route to SITE for plan check and inspection.</b>
<input type="checkbox"/>	Preliminary review ONLY; the information on this form must be reviewed again and confirmed at the time of building permit submittal.
<b>COMMENTS:</b> Office sq ft. is 1100 sq ft. Parking requirement is not less than 1 space per 400 gross sq ft = 3 spaces. The office use is allowed in the C-2 zone. The setbacks meet the requirements as shown on the site plan. A 6 ft. masonry wall will be required for all sides adjacent to residential uses.  Okay to demo detached garage and carport per IR04-374 and demo form has been signed off from Planning.	
DATE: 12-09-2004	BY: Evan Compton/PCaldwell 