

CITY OF SACRAMENTO

1231 I Street, Sacramento, CA 95814

Permit No: 0519408

Insp Area: 4

Thos Bros: 278B4

Site Address: 3216 DEL PASO BL SAC

Parcel No: 252-0330-032

Sub-Type: ASFR

Housing (Y/N): N

CONTRACTOR
OWNER BUILDER

OWNER
LIAKOS TED J
1938 LOS ROBLES BL
SACRAMENTO, CA 95838

ARCHITECT

Nature of Work: 1STORY FRONT, 223sf ADDITION TO EXISTING 1STORY SFR. CONVERTING 223sf OF GARAGE TO LIV. SP. ADDING 85sf FRONT PORCH. - PARTIAL ROOF RE-FRAME - DESIGN REVIEW AREA -

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 0 _____ 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.)

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 & PC for this reason: _____

PAID

Date 12-23-05 Owner Signature *Ted Liakos*

CITY OF SACRAMENTO

DEC 23 2005

IN ISSUING THIS BUILDING PERMIT, the applicant represents, and the city relies on the representations 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 improvement. NEW CITY HALL.

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 12-23-05 Applicant/Agent Signature *Ted Liakos*

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 _____ Policy Number _____ 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 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 12-23-05 Applicant Signature *Ted Liakos*

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.



RECEIVED
MAR 06 1992
CONTRACTOR
STATE BOARD
REGISTERED CENTER

CONTRACTORS STATE LICENSE BOARD

8835 GOETHE ROAD, SACRAMENTO, CALIFORNIA
MAILING ADDRESS: P.O. BOX 26000
SACRAMENTO, CALIFORNIA 95826

(916) 366-5153



3216 Del Paso Bl
0519408

EXEMPTION FROM WORKERS' COMPENSATION

Pursuant to Section 7125.1 of the Business and Professions Code prior to issuance of a new license or reinstatement, reactivation, or renewal of an existing license and as a condition of continued maintenance of an existing license, the applicant or licensee must have on file a Certificate of Workers' Compensation Insurance or a certificate of consent to self-insure from the Director of Industrial Relations. If the applicant or licensee has no employees, an exemption certificate must be submitted, certifying under penalty of perjury that he/she does not employ any person in any manner to be subject to the Workers' Compensation laws of California. A certificate or exemption is not required on an inactive license.

If you do not employ any person in any manner to be subject to the Workers' Compensation laws of California, complete this exemption certificate. Send the completed certificate to the Contractors State License Board (CSLB) at the address above.

NOTE: If the license is qualified by a Responsible Managing Employee (RME), an exemption certificate cannot be submitted.

PLEASE TYPE OR PRINT IN INK. FORMS COMPLETED IN PENCIL ARE NOT ACCEPTABLE.

LICENSE NUMBER OR PENDING APPLICATION NUMBER <u>287774</u>	
FULL NAME OF BUSINESS (AS IT CURRENTLY APPEARS ON THE RECORDS OF THE CSLB) <u>SACRAMENTO ELECTRIC & AIR CONDITIONING GENERAL CONTRACTORS</u>	
EFFECTIVE DATE - MONTH/DAY/YEAR. (IF THE EFFECTIVE DATE IS OLDER THAN 90 DAYS, WE WILL USE THE TIME STAMP DATE) <u>3-6-92</u>	
DAYTIME TELEPHONE NUMBER <u>(916) 641-6210</u>	EVENING TELEPHONE NUMBER <u>()</u>

On 3-6-92 at SACTO City CA State

I certify under penalty of perjury under the laws of the State of California that the above named business does not employ any person in any manner so as to become subject to the Workers' Compensation laws of California. I further certify that the CSLB will be notified within 90 days of any change which results in the business becoming subject to the Workers' Compensation laws of California.

SIGNATURE OF OWNER, PARTNER OR OFFICER TED LIAKO
PRINT OR TYPE NAME TED LIAKO

THIS EXEMPTION WILL REMAIN ON FILE UNTIL YOU NOTIFY THE CSLB OF ANY CHANGES. PURSUANT TO SECTION 7083 OF THE BUSINESS AND PROFESSIONS CODE, FAILURE TO NOTIFY THE CSLB OF ANY CHANGES WITHIN 90 DAYS IS GROUNDS FOR DISCIPLINARY ACTION.

City of Sacramento
Development Services Department
PLANNING REVIEW FOR BUILDING PERMIT SUBMITTAL

ADDRESS: 3216 DEL PASO BLVD		APN: 252-0330-032	
DRPB AREA / PUD / SPD: NORTH SACRAMENTO		ZONING: OB	
EXISTING LAND USE: RSF WITH ATTACHED GARAGE			
PROPOSED USE: ADDITION & CONVERSION OF ONE GARAGE -- NON CONFORMING BUILDING			
PLANNING STAFF WILL CHECK ONE OR MORE OF THE ITEMS BELOW:			
<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 approved <i>before</i> project can be submitted for plan check			
<input type="checkbox"/>	Application(s) IN PROGRESS : File Number:		
Application must be approved <i>before</i> project can be submitted for plan check.			
<input checked="" type="checkbox"/>	Application(s) COMPLETED : File Number & approval date: DR05-324 Approved 12-12-05 Z05-255 Approved 12-1-05		
Building permit must conform to approved plans and comply with all conditions of approval.			
<input checked="" type="checkbox"/>	Plans may be submitted for plan check. Plan checker(s) shall confirm compliance with Zoning Ordinance requirements and all applicable development standards <i>prior to issuance</i> of building permit.		
<input checked="" type="checkbox"/>	Meets setback & lot coverage requirements as shown on site plan provided.		
<input checked="" type="checkbox"/>	Plans to be submitted have been stamped/signed by Planning counter staff.		
<input type="checkbox"/>	Route to SITE for plan check and inspection.		
<input type="checkbox"/>	Route to SITE for inspection only, plan check not required.		
<input type="checkbox"/>	Preliminary review ONLY ; the information on this form must be reviewed again and confirmed at the time of building permit submittal.		
CONDITIONS AND COMMENTS: LOT AREA = 14,107 (METROSCAN). TOTAL FOOTPRINT = 1928 1928 / 14107 = 14% TOTAL LOT COVERAGE. PROPOSED WORK WILL NOT ENCROACH INTO REQUIRED SETBACK AREA.			
Building permit must conform to approved plans and comply with all conditions of approval for Z05-255 and DR05-324.			
DATE: 12-13-05		BY: Jack McCool	

Residential Triage

Address: 3216 DEL Paso Blvd PC #: 0519408

Flood Zone: X APN: 052 - 0330 - 032

Owner Name: Ted LIAKOS Contractor Name: Owner Builder

Address: _____ Address: _____

City: _____ Zip Code: _____ City: _____ Zip Code: _____

Phone #: _____ Phone #: _____

Fax #: _____ Fax #: _____

Email: _____ Email: _____

Applicant Name: _____

Address: _____ City: _____ Zip Code: _____

Phone #: _____ Fax #: _____ Email: _____

Job Description: 465 st Addition

NSFD _____ Duplex _____ Addition _____ 2nd Unit _____

Square Footage: _____

Utility Location: Street Easement: yes no

Water: 6" street Sewer: 6" street

Power: _____ Gas: _____

Any Other Planning Issues

"Z" File #: _____ DR File #: _____

P File #: _____ PB File #: _____

Public Works: _____ Utility: _____

Fire: _____



**CITY OF SACRAMENTO
DEVELOPMENT SERVICES DEPARTMENT
BUILDING DIVISION**

North Permit Center
2101 Arena Blvd., Suite 200
Sacramento, CA 95834
Inspection: (916) 808-4677

OWNER BUILDER VERIFICATION

1. Check one below - I or my immediate family (parent, spouse, or child) will perform:

- A - all the work authorized by this permit.
- B - a portion of the work.
- C - none of the work.

If B or C is checked, complete 2 or 3 below.

2. A State licensed contractor (*) will be hired to do:

- all of the authorized work.
- a portion of the authorized work.

Name _____ Phone _____

Address _____

Type of Work _____

Name _____ Phone _____

Address _____

Type of Work _____

Name _____ Phone _____

Address _____

Type of Work _____

Name _____ Phone _____

Address _____

Type of Work _____

3. I will utilize unlicensed person(s) other than my immediate family to perform all or portions of the authorized work. A Certificate of Workers Compensation must be on file at this office.

I declare under penalty of perjury that the above is true and correct. I have read and understand the owner-builder information on the reverse side of this form.

Signed: Property Owner Ted Liakko

Date _____ Case No. _____ Permit No. _____

Job Address 3216 Del Paso BL Sacto CAL

Note: * Information regarding unknown contractors or change in subcontractors shall be submitted to the Building Inspection field office.



CITY OF SACRAMENTO

Downtown Permit Center
1231 I Street, Suite 200
Sacramento, CA 95814

www.cityofsacramento.org

Help Line: 1-916-808-5656 OR 1-866-EZ-PERMIT
Inspection: 1-916-808-7622

North Permit Center
2101 Arena Blvd., Suite 200
Sacramento, CA 95834

SITE DRAINAGE AND ENCROACHMENT QUESTIONNAIRE

PARCEL # 252-0330-032 PERMIT # 0519408
SITE ADDRESS 3216 Del Paso BL ACREAGE _____

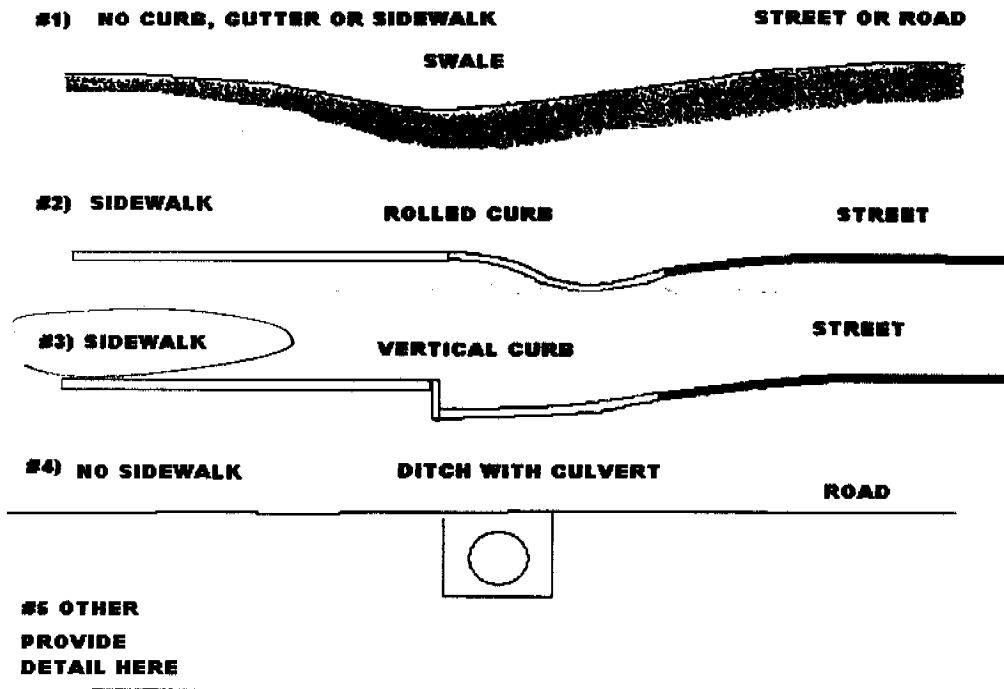
The City of Sacramento requires a building site to be graded to drain correctly and site drainage routed to an approved location. To help us understand the site drainage for your project and determine if a driveway permit or an encroachment permit is required please answer the following questions. All questions must be answered.

1. Are there existing structures on the site? Y N
2. Is there an existing concrete or paved driveway to this parcel from the street? Y *N
3. Will the existing access to this parcel be changed in any way for this project? *Y N
4. Are all portions of the lot higher than the crown of the street? Y *N
5. Are all portions of the lot higher than the back of the sidewalk? Y *N
6. Is there a curb and gutter at the street level? *Y N
7. Is there a sidewalk with a curb and gutter at the street? *Y N
8. Is the curb at the street square? *Y N N/A
9. Is there a rolled curb at the street? Y N N/A
10. Is there a drainage ditch or culvert at the street? Y *N N/A
11. Does the lot drain from back to front? Y *N
12. Does the lot drain from front to rear? Y *N
13. Does another lot drain across this parcel? *Y N
14. Does the lot drain from side to side? *Y N
15. Does the site have an existing low area or drainage swale? *Y N
16. Does the drainage swale drain to an adjacent parcel? *Y N N/A
17. Does the drainage swale drain to the street? Y *N N/A
18. Will existing drainage be re-routed? *Y N
19. Will drainage ditches or culverts be constructed or modified? *Y N N/A
20. Did this project require approval from the Zoning Administrator? *Y N
21. Did the project require approval from the Planning Administrator? *Y N

SITE DRAINAGE AND ENCROACHMENT QUESTIONNAIRE

- 22. Is there any tree, telephone pole, guy wire or similar obstruction located at the front of the property adjacent to the street or road? Y N
- 23. Is this a corner lot? Y N
- 24. Is the posted speed limit on this street greater than 25 MPH? Y N
- 25. Is this parcel located on a four-lane street? Y N
- 26. If site is greater than 1/2 acre has an erosion and sediment control plan been submitted? Y N N/A
- 27. If site disturbs 1 acre or more has a copy of the State General Permit NOI and SWPPP been submitted? Y N N/A
- 28. If site is part of a larger subdivision greater than 1 acre has a copy of the State General Permit NOI and SWPPP been submitted? Y N N/A

CIRCLE THE DRAWING NUMBER BELOW THAT BEST ILLUSTRATES THE EXISTING CONDITION AT THE LOCATION OF THE PROPOSED DRIVEWAY OR SITE ACCESS.



The information provided on this document is accurate. I understand that if this form is incomplete, contains inaccurate or misleading information, the project located at this address may be delayed until any drainage or encroachment issues are resolved to the satisfaction of the City of Sacramento.

SIGNED Teal Davis DATE 12-13-05
 TITLE owner
 PHONE NO. 644-6000



CITY OF SACRAMENTO

WWW.CITYOFSACRAMENTO.ORG

Downtown Permit Center
 New City Hall, 915 I Street, 3rd Floor, Sacramento, CA 95814
 North Permit Center
 2101 Arena Blvd., Suite 200, Sacramento, CA 95834

1-916-808-5656 or 1-866-EZ-PERMIT

Special Package D for Residential Additions in Climate Zone 12
 CERTIFICATE OF COMPLIANCE CF-1R ADDITION, 100 TO 999 SQUARE FEET.

transcribed on 12-20-07 MAB

Project Title: LIAKOS ADDITION Date: CD
 Project Address: 3216 DEL PASO BL.
 Total Floor Area Addition: 465 Ft.
 Total Glazing Area Addition: 53.5 Ft.

REQUIREMENTS THAT APPLY TO NEW AREA:	BUILDING SHELL INSULATION:	R-VALUE MIN.
COMPONENT	TYPE (BATT OR BLOWN)	
Ceiling	_____	R-38
Walls	_____	R-13
Raised Floor	_____	R-19
Ducting	_____	R-6

Compliance is required via either Package D or Alternative Package D: (Check One)
 Additions up to 999 square feet.

Preferred Package D	<input type="checkbox"/> Package D	<input checked="" type="checkbox"/> Alternative Package D
SHGC	.40	.31
U value*	.57*	.38*
TXV	Yes	No
Duct Sealing	Yes	No
Radiant Barrier emittance 0.05 or less	Yes	Yes

*.75 U Value glazing max. for additions up to 500 Sq. Ft.

A. 53.5 Sq. Ft. B. 27 Sq. Ft. C. 26.5 Sq. Ft. D. 5 % Note: Using package D, maximum glass allowed is 20%.

Total Glass in addition: _____ Total of any removed (addition area): _____ Subtract B from A, enter amount in C: _____ Divide C by floor area of addition x 100: _____

E. N/A % of West Facing Glass Note: Maximum 5% allowed.

New Heating, Cooling, or Domestic Water Heating:

Systems installed in conjunction with the addition must comply with the appliance standards applicable to new installations in new residences. Complete the following standards if new equipment is being installed in conjunction with the room addition:

HVAC Systems

Type (furnace, air conditioner, heat pump)	Minimum Efficiency (AFUE/HSPF)	Duct Location (attic, etc.)	Output (BTUH)	Manufacturer/Model No. (or approved equal)
<u>heat pump</u>	<u>78% 68</u>	<u>N/A</u>	<u>21,500</u>	<u>FUJITSU 18R0</u>

Maximum Furnace Heating Output: ~~21,500~~ (BTUH) - may not add Electric Resistance Heat

Hot Water Systems

System Type (storage gas, etc.)	Type Capacity	Manufacturer/Model No. (or approved equal)	Special Feature(s)
<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>

Compliance Statement

This certificate of compliance lists the building features and performance specifications needed to comply with Title 24, Chapter 2-53, and Title 20, Chapter 2, Subchapter 4, Article 1, of the California Administrative Code. This certificate has been signed by the individual with overall design responsibility and the building owner, who shall retain a copy of it and transmit the certificate to any subsequent purchaser of the building.

Building Owner or Designer

Name: TEA LIAKOS

Title/Firm: owner

Address: 3216 DEL PASO BLVD
SACRAMENTO CA 95815

Documentation Author

Name: _____

Title/Firm: _____

Address: _____

Enforcement Agency

Name: _____

Title/Firm: _____

Address: _____



CITY OF SACRAMENTO, CALIFORNIA

BUILDING & SAFETY DIVISION 1231 I STREET, (916) 264-1965

SPECIAL PACKAGE D FOR RESIDENTIAL ADDITIONS IN CLIMATE ZONE 12

CERTIFICATE OF COMPLIANCE CE-1R ADDITION, 100 TO 999 SQUARE FEET WITH 199-SF EXEMPTIONS & REQUIREMENTS.

Project Title LIAKOS ADDITION Date 1/7/05

Project Address 3216 DEL PASO BLVD.

Total Floor Area Addition: 465.0 F2 Total Glazing Area Addition: 53.5 F2 Floor Area x 16% = Total allowed. 74.4

REQUIREMENTS THAT APPLY TO NEW AREA FLOOR PLAN MAXIMUM GLASS ALLOWANCE FORMULA.

A. 53.5 Sq. Ft. B. 27 Sq. Ft. C. 26.5 Sq. Ft. D. 6 %

Total Glass in addition: 53.5 Total of any removed glass (addition area): 27 Subtract B from A; enter amount in C: 26.5 Divide C by floor area of addition: 6

NOTE: Using package D, maximum glass allowed is 16%

Module I (R-19 Ceiling....R-13 Wall....R-13 Floor)					
99-SF or Less	50% Max Glazing. No Credit for removed.	0.75 U-Value	SHGC 0.40 Minimum	No CF-4R, No HERS Testing No Radiant Barrier required.	See, *, **, exceptions.
Module II Standard Package-D (R-38 Ceiling....R-13 Wall....R-19 Floor)					
100-999 SF	16% Max Glazing. See A,B,C,D above	0.65 U-Value 0.75 < 500 SF	SHGC 0.40 Minimum	Radiant Barrier In Addn Only.	Duct, TXV, & HERS Test, CF-R4, AFUE.78 **New 12 SEER, Duct test req. See***
Module III Alternate Package-D (R-38 Ceiling....R19-2x6" Wall. or R-13 with R4.61 Rigid in a 2x4" Wall....R-19 Floor)					
100-999 SF	16% Max Glazing. See A,B,C,D above	0.40 U-Value	SHGC 0.35 Minimum	Min 11 SEER when upgraded or added. Radiant Barrier addition only. See* & **.	AFUE 0.78 min. No CF-R4 required. No Duct, TXV, & HERS Test. **New 12 SEER

Module IV Standard Pkg-D or Computer Performance Compliance
 Floor Plans in excess of 999-SF require Performance Compliance of both existing and Addition combined, achieved by an approved Computer Program or, both Existing & Addition Designed and constructed per Module II Package-D.

Both Module II & III may use existing HVAC systems when adequate. Should a 12 SEER be installed in either Module then No HERS/TXV tests required. See Exceptions below.

All duct R-value 4.2 Min. [Pre-1978 AFUE .68-OK] [* -New HVAC requires HERS Test 11 SEER Min.] [** -New 12 SEER A/C - No HERS/TXV or CF-R4]
 *** No duct work, No HERS required] RB= Radiant barrier underside of roof & Gable walls, shiny side down. Duct Sealed= Ducts certified 6% leakage max. U= U-Value.
 XV= Field verified by HERS rater. SEER= A/C Seasonal Energy Efficiency Ratio. SHGC= Window Solar Heat Gain Coefficient.
 FUE= Annual Fuel Utilization Efficiency. [See *** & ***** for wall frame and vaulted ceiling requirements.]

QUESTIONNAIRE: (By City of Sacramento Staff) FIELD VERIFY: _____ MODULE SELECTED: _____

. What year was home built? _____
 . What is SEER rating of current Air Conditioner? _____
 . What is current Furnace AFUE ? _____
 . Will Furnace or A/C be upgraded ? Yes/No? _____
 . New water heater (> 50 gal. Exempt) ? Yes/No? _____

Note: No duct assembly allowed in wall cavity chases, New Furnace or HVAC requires new Schback thermostats each Zone or unit. Split zones require 2.
 2001 Title 24 Residential Energy manual sec 3.1-3.8; sec 7.1-7.6 Effective July 1st, 2001.
 Requires 2x6 assembly, or 2x4 R11 & Ext rigid R4.61. Cannot apply brace panels. **Requires 2x12 @ Vaulted areas with 1" x 6" foam channel ventilation.

NEW HEATING, COOLING, OR DOMESTIC WATER HEATING
 systems installed in conjunction with the addition must comply with the appliance standards applicable to new installations in new residences. Complete the following standards if new equipment is being installed in conjunction with the room addition: Electric resistant heat not allowed.

HVAC SYSTEMS	Minimum Efficiency (SE, SEER, HSPF)	Duct Insulation	Output (Btu) (or approved equal)	Manufacturer/Model # (or approved equal)
type: (Furnace, air Conditioner, heat pump)				
	<u>11.00</u>	<u>R4.2</u>	<u>"FUJITSU" 18RD</u>	<u>HEATING 21,500 BTU</u>
		<u>R4.2</u>		
		<u>R4.2</u>		

HOT WATER SYSTEMS	Capacity (gallons)	Manufacturer/Model# (or Approved equal)	Special Features
System Type storage, gas, electric)			
	<u>N/A</u>		

COMPLIANCE STATEMENT
 this certificate of compliance lists the building features and performance specifications needed to comply with Title 24, Chapter 2-53, and Title 24, Chapter 2, subchapter 4, Article 1, of the California Administrative Code. The individual has signed this certificate with overall design responsibility and the building owner, who shall retain a copy of it and transmit the certificate to any subsequent purchaser of the building. When this certificate of compliance is submitted for a single building plan to be built in multiple orientations, all building conservation features that vary are indicated in the Special Feature/Remarks section.

BUILDING OWNER OR DESIGNER	DOCUMENTATION AUTHOR	ENFORCEMENT AGENCY
Name: <u>BOB CALVER</u>	Name: _____	Name: _____
Title/Firm: <u>Calver + Assoc Inc</u>	Title/Firm: _____	City of Sacramento
Address: <u>2999 PARKWAY DR</u>	Address: _____	1231 I Street
<u>CA</u>		Sacramento, Ca. 95814

Signature: [Signature] Date: 1/7/05

July 1, 2002

MANDATORY MEASURES CHECKLIST: RESIDENTIAL MF-1R

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.

Instructions: Check or initial applicable boxes when completed or enter N/A if not applicable.

DESCRIPTION	DESIGNER	ENFORCEMENT
Building Envelope Measures:		
* §150(a): Minimum R-19 ceiling insulation.	R-36	
§150(b): Loose fill insulation manufacturer's labeled R-Value.		
* §150(c): Minimum R-13 wall insulation in wood framed walls or equivalent U-value in metal frame walls (does not apply to exterior mass walls).	-	
* §150(d): Minimum R-13 raised floor insulation in framed floors.	R-19	
§150(l): Slab edge insulation - water absorption rate no greater than 0.3% water vapor transmission rate no greater than 2.0 perm/inch.	N/A	
§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-value, certified Solar Heat Gain Coefficient (SHGC), and infiltration certification. 3. Exterior doors and windows weather-stripped; 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 § 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 pilot lights allowed.	N/A	
Space Conditioning, Water Heating and Plumbing System Measures:		
§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 systems. 5. Cooling system piping below 55° F insulated. 6. Piping insulated between heating source and indirect hot water tank.	-	
* §150(m): Ducts and Fans 1. All ducts and plenums constructed, installed, insulated, fastened, and sealed to comply with the ICBO 1997 UMC sections 601 and 603; ducts insulated to a minimum installed R-4.2 or ducts enclosed entirely within 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 and other applicable specified tests for longevity given in §150(n). 2. Exhaust fan systems have back draft 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" 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 pilot light. (Exception: Non-electrical cooking appliances with pilot < 150 Btu/hr)	N/A	
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.	-	
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CITY OF SACRAMENTO, CALIFORNIA

BUILDING & SAFETY DIVISION 1231 I STREET, (916) 264-1965

SPECIAL PACKAGE D FOR RESIDENTIAL ADDITIONS IN CLIMATE ZONE 12

CERTIFICATE OF COMPLIANCE CF-1R ADDITION, 100 TO 999 SQUARE FEET WITH 199-SF EXEMPTIONS & REQUIREMENTS.

Project Title LIAKOS ADDITION Date 1/7/05

Project Address 3216 DEL PIED BLVD.

Total Floor Area Addition: 465.0 F12 Total Glazing Area Addition: 53.5 F12 Floor Area x 16% = Total allowed. 74.4

REQUIREMENTS THAT APPLY TO NEW AREA FLOOR PLAN MAXIMUM GLASS ALLOWANCE FORMULA.

A. 53.5 Sq. Ft. B. 27 Sq. Ft. C. 26.5 Sq. Ft. D. 6 Sq. Ft.

Total Glass in addition

Total of any removed glass (addition area)

Subtract B from A; enter amount in C

Divide C by floor area of addition.

NOTE: Using package D, maximum glass allowed is 16%

Module I 99-SF or Less	(R-19 Ceiling.....R-13 Wall.....R-13 Floor)	50% Max Glazing, No Credit for removed.	0.75 -U-Value	SHGC 0.40 Minimum	No CF-4R, No HERS Testing No Radiant Barrier required.	Sec, *, **, exceptions.
Module II Standard Package-D 100-999 SF	(R-38 Ceiling.....R-13 Wall.....R-19 Floor)	16% Max Glazing See A,B,C,D above	0.65 -U-Value 0.75 < 500 SF	SHGC 0.40 Minimum	Radiant Barrier In Addn Only. Duct, TXV, & HERS Test, CF-R4, AFUE.78 **New 12 SEER, Duct test req. Sec***	
Module III Alternate Package-D 100-999 SF	(R-38 Ceiling.....R19-2x6" Wall.....R-13 with R4.61 Rigid in a 2x4" Wall.....R-19 Floor)	16% Max Glazing See A,B,C,D above	0.40-U-Value	SHGC 0.35 Minimum	Min 11 SEER when upgraded or added. Radiant Barrier addition only. Sec*&**. AFUE 0.78 min. No CF-R4 required. No Duct, TXV, & HERS Test. **New 12 SEER	

Module IV Standard Pkg-D or Computer Performance Compliance
Floor Plans in excess of 999-SF require Performance Compliance of both existing and Addition combined, achieved by an approved Computer Program or, both Existing & Addition Designed and constructed per Module II Package-D.

Both Module II & III may use existing HVAC systems when adequate. Should a 12 SEER be installed in either Module then No HERS/TXV tests required. See Exceptions below.

All duct R-value 4.2 Min. [Pre-1978 AFUE .68=OK] [**New HVAC requires HERS Test 11 SEER Min.] [**New 12 SEER A/C = No HERS/TXV or CF-R4] *** No duct work, No HERS required] RB= Radiant barrier underside of roof & Gable walls, shiny side down. Dust Sealed= Ducts certified 6% leakage max. U= U-Value. XV= Field verified by HERS rater. SEER=A/C Seasonal Energy Efficiency Ratio. SHGC= Window Solar Heat Gain Coefficient. FUE= Annual Fuel Utilization Efficiency. [See **** & ***** for wall frame and vaulted ceiling requirements.]

QUESTIONNAIRE: (By City of Sacramento Staff)

FIELD VERIFY:

MODULE SELECTED:

What year was home built? _____
 What is SEER rating of current Air Conditioner? _____
 What is current Furnace AFUE ? _____
 Will Furnace or A/C be upgraded? Yes/No? _____
 New water heater (> 50 gal. Exempt) ? Yes/No? _____

Note: No duct assembly allowed in wall cavity chases, New Furnace or HVAC requires new Setback thermostats each Zone or unit. Split zones require 2.

§11 Title 24 Residential Energy manual sec 3.1-3.8; sec 7.1-7.6 Effective July 1, 2001.

Requires 2x6 assembly, or 2x4 R11 & Ext rigid R4.61. Cannot apply brace panels. *** Requires 2x12 @ Vaulted areas with 1" x 6" foam channel ventilation.

HEATING, COOLING, OR DOMESTIC WATER HEATING

Systems installed in conjunction with the addition must comply with the appliance standards applicable to new installations in new residences. Complete the following standards if new equipment is being installed in conjunction with the room addition: Electric resistant heat not allowed.

HEATING SYSTEMS (Furnace, air conditioner, heat pump)	Minimum Efficiency (SE, SEER, HSPF)	Duct Insulation	Output (Btu) Manufacturer/Model # (or approved equal)
	<u>11.000</u>	<u>R4.2</u>	<u>"FURNACE" 18000 21,500 BTU</u>
		<u>R4.2</u>	
		<u>R4.2</u>	

DOMESTIC WATER SYSTEMS (Water heater Type: storage, gas, electric)	Capacity (gallons)	Manufacturer/Model# (or Approved equal)	Special Features
		<u>N/A</u>	

COMPLIANCE STATEMENT

This certificate of compliance lists the building features and performance specifications needed to comply with Title 24, Chapter 2-53, and Title Chapter 2, subchapter 4, Article 1, of the California Administrative Code. The individual has signed this certificate with overall design responsibility and the building owner, who shall retain a copy of it and transmit the certificate to any subsequent purchaser of the building. When certificate of compliance is submitted for a single building plan to be built in multiple orientations, all building conservation features that vary indicated in the Special Feature/Remarks section.

BUILDING OWNER OR DESIGNER Name: [Signature]
DOCUMENTATION AUTHOR Name: _____ Title/Firm: _____ Address: _____
ENFORCEMENT AGENCY Name: _____ City of Sacramento 1231 I Street Sacramento, Ca. 95814

BID004

Signature [Signature] Date 1/7/05

July 1, 2002

MANDATORY MEASURES CHECKLIST: RESIDENTIAL MF-1R

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.

Instructions: Check or initial applicable boxes when completed or enter N/A if not applicable.

DESCRIPTION	DESIGNER	ENFORCEMENT
Building Envelope Measures:		
* §150(a): Minimum R-19 ceiling insulation.	R-35	
§150(b): Loose fill insulation manufacturer's labeled R-Value.		
* §150(c): Minimum R-13 wall insulation in wood framed walls or equivalent U-value in metal frame walls (does not apply to exterior mass walls).	-	
* §150(d): Minimum R-13 raised floor insulation in framed floors.	R-19	
§150(i): Slab edge insulation - water absorption rate no greater than 0.3%, water vapor transmission rate no greater than 2.0 perm/inch.	N/A	
§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-value, certified Solar Heat Gain Coefficient (SHGC), and infiltration certification. 3. Exterior doors and windows weather-stripped; 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 § 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 pilot lights allowed.	N/A	
Space Conditioning, Water Heating and Plumbing System Measures:		
§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 systems. 5. Cooling system piping below 55° F insulated. 6. Piping insulated between heating source and indirect hot water tank.	-	
* §150(m): Ducts and Fans 1. All ducts and plenums constructed, installed, insulated, fastened, and sealed to comply with the ICBO 1997 UMC sections 601 and 603; ducts insulated to a minimum installed R-4.2 or ducts enclosed entirely within 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 and other applicable specified tests for longevity given in §150(m). 2. Exhaust fan systems have back draft 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" 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 pilot light. (Exception: Non-electrical cooking appliances with pilot < 150 Btu/hr)	N/A	
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