

CITY OF SACRAMENTO
1231 I Street, Sacramento, CA 95814

Permit No: 0601397

Insp Area: 2

Thos Bros:

Sub-Type: NSFR

Housing (Y/N): N

Site Address: 4197 PROMENADE DR SAC

Parcel No: LIBERTY LANE LOT # 11

CONTRACTOR

RYLAND HOMES
1755 CREEKSIDE OAKS DR. #240
SACRAMENTO CA. 95835

OWNER

ARCHITECT

Nature of Work: MP1885 2 STORY 8 ROOMS SFR

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 B License Number 054648 Date 02-07-06 Contractor Signature J. Contreman

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: _____

Date _____ Owner Signature _____

CITY OF SACRAMENTO
FEB 07 2006

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 02-07-06 Applicant/Agent Signature J. Contreman

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:

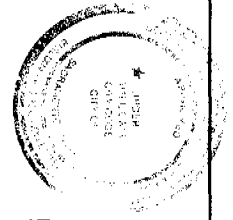
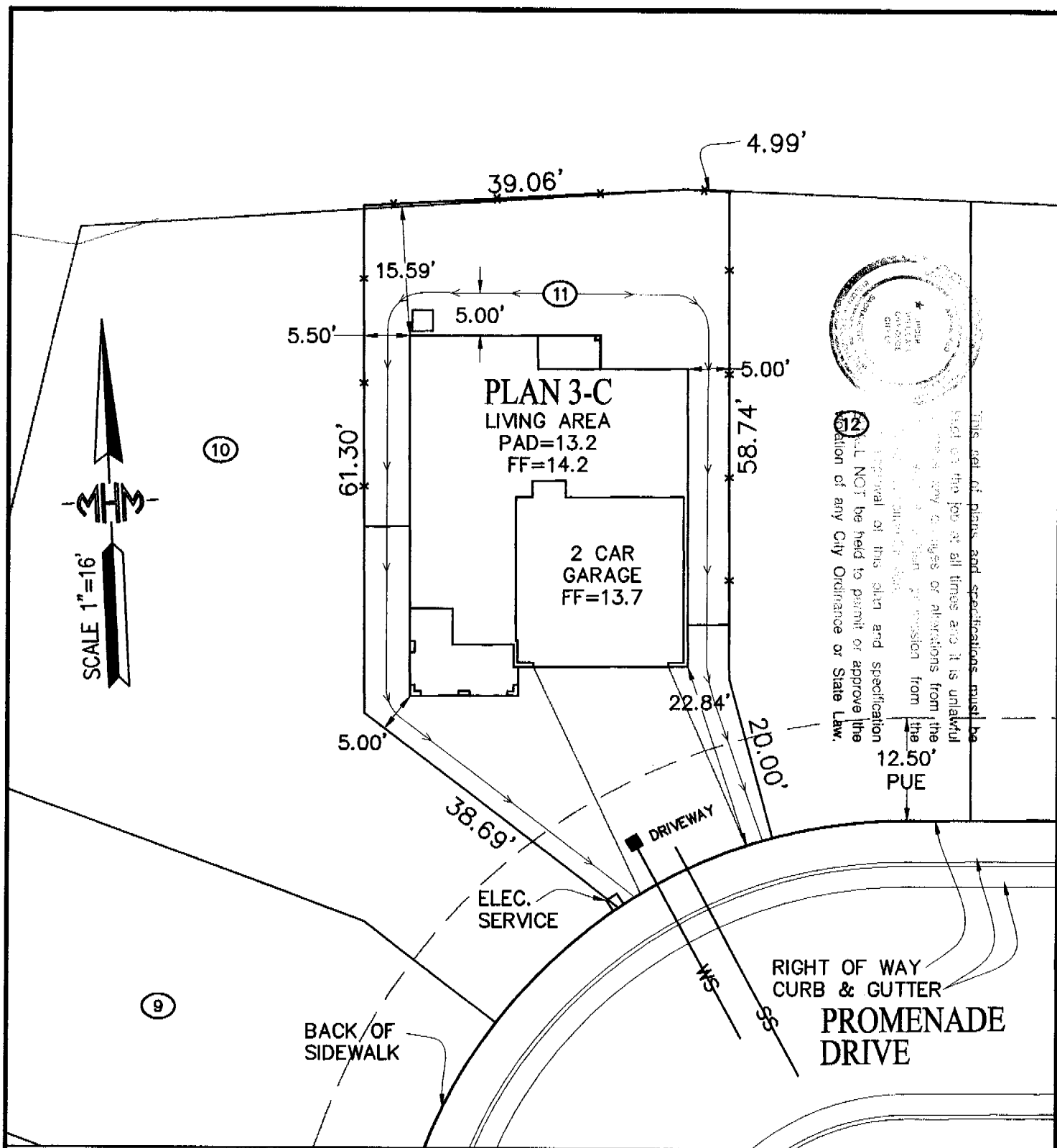
Carrier AMERICAN HOME ASSURANCE Policy Number AOS WC7085227 Exp Date 06/01/2003

_____, (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 02-07-06 Applicant Signature J. Contreman

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.



This set of plans and specifications must be read on the job at all times and it is unlawful to make any changes or alterations from the original drawings without the written permission from the Engineer of Record.

Approval of this plan and specification shall NOT be held to permit or approve the location of any City Ordinance or State Law.

LOT AREA:	3424 S.F.	ACTUAL LOT COVERAGE:	1314 S.F. = 38.4%	NUMBER OF BEDROOMS: 4
				BUILDING HEIGHT: 25' 6-1/2"
Reviewed by Home Owner with Sales Representative:			Approved By:	
Home Owner _____	Date _____	Ryland Homes _____		Date _____
Sales Rep. _____	Date _____			
It is understood that the drainage areas, slopes and grades shall not be altered, changed, blocked, modified or in any way be reconstructed by Owner contrary to what is depicted on this Plot Plan. THESE CONDITIONS RUN WITH THE LAND AND ARE BINDING ON ALL SUBSEQUENT OWNERS. All setback dimensions and elevations as shown may be adjusted to fit field conditions.				
M.H.M. ENGINEERS & SURVEYORS SINCE 1892	ENGINEERING-SURVEYING 523 "J" STREET MARYSVILLE, CALIF. 95901-1674 Ph: (530)742-6485	Plot plan for Liberty Lane Sacramento	4197 Promenade Drive Sacramento California	MHM Job# 04162 Lot 11 A.P.N.

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:

4197 PROMENADE # 0601397

SITE ADDRESS LOT 11 LIBERTY LANE SACRAMENTO CA
NUMBER CITY STATE

CEILINGS:

BLOW:	MANUFACTURER	<u>GREEN FIBER</u>	THICKNESS	<u>10.3"</u>	R/VALUE	<u>38</u>
		<u>GREEN FIBER</u>	THICKNESS		R/VALUE	
BATTS:	MANUFACTURER	<u>KNAUF</u>	THICKNESS	<u>13"</u>	R/VALUE	<u>38</u>
		<u>KNAUF</u>				

EXTERIOR WALLS:

MANUFACTURER	<u>KNAUF</u>	THICKNESS	<u>3.5"</u>	R/VALUE	<u>13</u>
	<u>KNAUF</u>	THICKNESS	<u>6"</u>	R/VALUE	<u>19</u>

FLOOR INSULATION:

MANUFACTURER	<u>KNAUF</u>	THICKNESS	<u>6"</u>	R/VALUE	<u>19</u>
	<u>KNAUF</u>				

AIR INFILTRATION: (TITLE 24)

YES XXX NO _____

OTHER: _____

GENERAL CONTRACTOR: RYLAND HOMES LICENSE # _____

BY: _____ TITLE _____ DATE _____

INSULATION CONTRACTOR: WESTERN INSULATION LP LICENSE # 794484

BY: Becky Gutierrez TITLE AUTH. AGENT DATE 6/12/2006
BECKY GUTHERZ

Omega Products International, Inc.

ICBO Evaluation Service, Inc.
Evaluation Report ER-4004

Date of Job Completion 5-30-06

Job Address

1111 LIBERTY LANE
LOT # 11 SC RELEASE 4
4192 ROMANA'S DRIVE

Plastering Contractor

Name: Energetic Lath & Plaster, Inc.

Address: 3030 Orange Grove Avenue North Highlands, CA 95880

Telephone No.: (916) 488-9455

Approved contractor number as issued by coating manufacturer: _____
Applicator # 318

This is to certify that the exterior coating system on the building exterior at the above address has been installed in accordance with the evaluation report specified above and the manufacturer's instructions.

[Signature]
Signature of authorized representative
or plastering contractor _____ Date _____

This installation card must be presented to the building inspector after completion of work and before final inspection.

FIGURE 3

0601397

00336-L-771000

4197 PROMENADE

#0601397

Project Title..... LIBERTY LANE Date..08/24/05 11:35:25
 Project Address..... PLAN 3 *****
 SACRAMENTO - CZ 12 *v7.00*
 Documentation Author... JIM WHEELER *****
 ConSol
 7407 Tam O'Shanter Dr Ste 200
 Stockton, CA 95210
 209-473-5000
 Climate Zone..... 12
 Compliance Method..... MICROPAS7 v7.00 for 2005 Standards by Enercomp, Inc.

Building Permit #
Plan Check / Date
Field Check/ Date

MICROPAS7 v7.00 File-RHLL3 Wth-CTZ12S05 Program-FORM CF-1R
 User#-MP0105 User-ConSol Run-RYLAND - PLAN 3

MICROPAS7 ENERGY USE SUMMARY				
Energy Use (kTDV/sf-yr)	Standard Design	Proposed Design	Compliance Margin	
Space Heating.....	20.40	20.84	-0.44	
Space Cooling.....	16.23	12.32	3.91	
Water Heating.....	11.69	11.33	0.36	
North Total	48.32	44.49	3.83	
Space Heating.....	20.40	20.94	-0.54	
Space Cooling.....	16.23	15.60	0.63	
Water Heating.....	11.69	11.33	0.36	
East Total	48.32	47.87	0.45	
Space Heating.....	20.40	21.81	-1.41	
Space Cooling.....	16.23	12.54	3.69	
Water Heating.....	11.69	11.33	0.36	
South Total	48.32	45.68	2.64	
Space Heating.....	20.40	21.88	-1.48	
Space Cooling.....	16.23	13.18	3.05	
Water Heating.....	11.69	11.33	0.36	
West Total	48.32	46.39	1.93	
*** Building complies with Computer Performance ***				
*** HERS Verification Required for Compliance ***				

GENERAL INFORMATION

HERS Verification..... Required
 Conditioned Floor Area..... 1885 sf
 Building Type..... Single Family Detached
 Construction Type New
 Fuel Type NaturalGas
 Building Front Orientation. Cardinal - N,E,S,W
 Number of Dwelling Units... 1
 Number of Building Stories. 2
 Weather Data Type..... FullYear

4197 PROMENADE #0601397

Floor Construction Type.... Slab On Grade
 Number of Building Zones... 1
 Conditioned Volume..... 28331 cf
 Slab-On-Grade Area..... 781 sf
 Glazing Percentage..... 13.1 % of floor area
 Average Glazing U-factor... 0.39 Btu/hr-sf-F
 Average Glazing SHGC..... 0.3
 Average Ceiling Height..... 15 ft

BUILDING ZONE INFORMATION

Zone Type	Floor Area (sf)	Volume (cf)	# of Dwell Units	Cond-itioned	Thermostat Type	Vent Height (ft)	Vent Area (sf)	Verified Leakage or Housewrap
Residence	1885	28331	1.00	Yes	Setback	8.0	Standard	No

OPAQUE SURFACES

Surface	Frame Type	Area (sf)	U-factor or	Cavity R-val	Sheath-ing R-val	Act Azm	Tilt	Solar Gains	Appendix IV Reference	Location/ Comments
1 Wall	Wood	141	0.068	13	4	0	90	Yes	IV.9 C3	Front Wall
2 Wall	Wood	188	0.055	19	4	0	90	Yes	IV.9 C5	2x6 Front Wall
3 Wall	Wood	12	0.102	13	0	0	90	Yes	IV.9 A3	At Kneewall
4 Wall	Wood	356	0.068	13	4	90	90	Yes	IV.9 C3	Left Wall
5 Wall	Wood	306	0.055	19	4	90	90	Yes	IV.9 C5	2x6 Left Wall
6 Wall	Wood	9	0.102	13	0	90	90	Yes	IV.9 A3	At Kneewall
7 Wall	Wood	488	0.068	13	4	180	90	Yes	IV.9 C3	Back Wall
8 Wall	Wood	184	0.068	13	4	270	90	Yes	IV.9 C3	Right Wall
9 Wall	Wood	360	0.055	19	4	270	90	Yes	IV.9 C5	2x6 Right Wall
10 Wall	Wood	373	0.102	13	0	0	90	No	IV.9 A3	Garage Wall
11 Door	Wood	24	0.160	0	0	0	90	Yes	DOOR	Insul Entry Dr
12 Door	Other	18	0.500	0	0	270	90	No	IV.28 A4	Garage Door
13 FloorExt	Wood	431	0.048	19	0	n/a	0	No	IV.21 A4	Above Garage
14 FloorExt	Wood	51	0.048	19	0	n/a	0	No	IV.21 A4	At Cantilever
15 Roof	Wood	1213	0.025	38	0	n/a	0	Yes	IV.1 A18	Flat w/ Attic
16 Roof	Wood	50	0.048	19	0	n/a	0	Yes	IV.1 A14	At Furnace

PERIMETER LOSSES

Surface	Length (ft)	F2 Factor	Insul R-val	Solar Gains	Appendix IV Reference	Location/ Comments
17 SlabEdge	102	0.730	R-0	No	EDGE.EXT	To Outside
18 SlabEdge	44	0.730	R-0	No	EDGE.EXT	To Garage

21

41197 PROMENADE #0601397

FENESTRATION SURFACES

Orientation	Area (sf)	U-factor	SHGC	Act Azm	Tilt	Exterior Shade Type	Location/Comments
1 Wind Front (N)	15.0	0.390	0.290	0	90	Standard	SNGL HNG / VINYL / SSGLZ
2 Wind Front (N)	15.0	0.390	0.290	0	90	Standard	SNGL HNG / VINYL / SSGLZ
3 Wind Front (N)	18.0	0.390	0.290	0	90	Standard	SNGL HNG / VINYL / SSGLZ
4 Wind Front (N)	8.0	0.350	0.300	0	90	Standard	FIXED / VINYL / SSGLZ
5 Wind Front (N)	4.5	0.350	0.300	0	90	Standard	FIXED / VINYL / SSGLZ
6 Wind Left (E)	10.0	0.390	0.290	90	90	Standard	SNGL HNG / VINYL / SSGLZ
7 Wind Left (E)	20.0	0.390	0.290	90	90	Standard	SNGL HNG / VINYL / SSGLZ
8 Wind Left (E)	10.0	0.350	0.300	90	90	Standard	FIXED / VINYL / SSGLZ
9 Wind Left (E)	10.0	0.390	0.290	90	90	Standard	SNGL HNG / VINYL / SSGLZ
10 Wind Left (E)	10.0	0.390	0.290	90	90	Standard	SNGL HNG / VINYL / SSGLZ
1 Wind Back (S)	30.0	0.390	0.290	180	90	Standard	SNGL HNG / VINYL / SSGLZ
2 Door Back (S)	24.0	0.400	0.400	180	90	Standard	PATIO DR /NON-MTL/ SSGLZ
3 Wind Back (S)	15.0	0.390	0.290	180	90	Standard	SNGL HNG / VINYL / SSGLZ
4 Wind Back (S)	30.0	0.390	0.290	180	90	Standard	SNGL HNG / VINYL / SSGLZ
5 Wind Back (S)	2.3	0.350	0.300	180	90	Standard	FIXED / VINYL / SSGLZ
6 Wind Back (S)	15.0	0.390	0.290	180	90	Standard	SNGL HNG / VINYL / SSGLZ
7 Wind Right (W)	10.0	0.390	0.290	270	90	Standard	SNGL HNG / VINYL / SSGLZ

OVERHANGS

Surface	Area (sf)	Window			Overhang		
		Width	Height	Depth	Height	Left Extension	Right Extension
1 Window	15.0	n/a	5.0	1.5	2.5	n/a	n/a
3 Window	18.0	n/a	6.0	1.5	2.8	n/a	n/a
4 Window	8.0	n/a	4.0	1.0	0.6	n/a	n/a
5 Window	4.5	n/a	3.0	1.0	0.6	n/a	n/a
10 Window	10.0	n/a	5.0	1.0	0.6	n/a	n/a
12 Door	24.0	n/a	8.0	4.0	0.0	n/a	n/a
15 Window	2.3	n/a	1.5	1.5	2.7	n/a	n/a
16 Window	15.0	n/a	5.0	1.0	0.6	n/a	n/a
17 Window	10.0	n/a	5.0	7.5	0.0	n/a	n/a

SLAB SURFACES

Slab Type	Area (sf)
Standard Slab	781

HVAC SYSTEMS

System Type	Number of Systems	Minimum Efficiency	Verified EER	Verified Refrig Charge or TXV	Verified Adequate Airflow	Verified Fan Watt Draw	Maximum Cooling Capacity
Furnace	1	0.800 AFUE	n/a	n/a	n/a	n/a	n/a
AC Split	1	13.00 SEER	No	Yes	No	No	No

3

HVAC SIZING

System Type	Total Heating Load (Btu/hr)	Sensible Cooling Load (Btu/hr)	Design Cooling Capacity (Btu/hr)	Verified Maximum Cooling Capacity (Btu/hr)
Furnace	38390	n/a	n/a	n/a
ACSplit	n/a	25154	29973	n/a

Orientation of Maximum..... Front Facing 90 deg (E)
 Sizing Location..... SACRAMENTO AP
 Winter Outside Design..... 26 F
 Winter Inside Design..... 70 F
 Summer Outside Design..... 98 F
 Summer Inside Design..... 75 F
 Summer Range..... 35 F

DUCT SYSTEMS

System Type	Duct Location	Duct R-value	Verified Duct Leakage	Verified Surface Area	Verified Buried Ducts
Furnace	Attic	R-6	No	No	No
ACSplit	Attic	R-6	No	No	No

WATER HEATING SYSTEMS

Pank Type	Heater Type	Distribution Type	Number in System	Energy Factor	Tank Size (gal)	External Insulation R-value
1 Storage	Gas	StandardNoInsul	1	0.60	50	R- n/a

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 incorporates a HERS verified Refrigerant Charge test or a HERS verified Thermostatic Expansion Valve (TXV). If a cooling system is not installed, then HERS verification is not necessary.

This is a multiple orientation building. This printout is for the front Facing North.

HERS REQUIRED VERIFICATION

*** Items in this section require field testing and/or ***
 *** verification by a certified home energy rater under ***
 *** the supervision of a CEC-approved HERS provider using ***
 *** CEC approved testing and/or verification methods and ***
 *** must be reported on the CF-4R installation certificate. ***

u

4197 PROMENADE # 0601397

HERS REQUIRED VERIFICATION

This building incorporates a HERS verified Refrigerant Charge test
or a HERS verified Thermostatic Expansion Valve (TXV). If a
cooling system is not installed, then HERS verification is not necessary.

REMARKS

DUAL PANE, VINYL WITH SPECTRALLY SELECTIVE GLASS
U-FACTORS = 0.38 (SL) / 0.39 (SH) / 0.35 (FX) / 0.34 (PATIO)
SHGC = 0.29 (SL) / 0.29 (SH) / 0.30 (FX) / 0.31 (PATIO)
SEE MANUFACTURER'S SPECIFICATION SHEET

DUAL PANE, NON-METAL WITH SPECTRALLY SELECTIVE GLASS
U-FACTOR = 0.40 (FRENCH DOOR)
SHGC = 0.40 (FRENCH DOOR)
VALUES LISTED MUST MEET OR EXCEED (BE LOWER) THAN THOSE LISTED.

THESE CALCULATIONS ARE FOR A 1-COAT STUCCO SYSTEM (R-4.2)

ELEVATION 'B' TAKEN AS WORST CASE GLAZING SCENARIO

5

4197 PROMENADE # 0601397

CERTIFICATE OF COMPLIANCE: RESIDENTIAL COMPUTER METHOD
Project Title..... LIBERTY LANE

CF-1R Page 6
Date..08/24/05 11:35:25

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.


DESIGNER or OWNER

Name....
Company. RYLAND HOMES
Address. 1755 CREEKSIDE OAKS #240
SACRAMENTO, CA 95833
Phone... (916) 648-3100
License. _____

Signed.. _____
(date)

DOCUMENTATION AUTHOR

Name.... JIM WHEELER
Company. ConSol
Address. 7407 Tam O'Shanter Dr Ste 200
Stockton, CA 95210
Phone... 209-473-5000

Signed..  8/24/05
(date)

ENFORCEMENT AGENCY

Name.... _____
Title... _____
Agency.. _____
Phone... _____

Signed.. _____
(date)

6

4197 PROMENADE INSTALLATION CERTIFICATE

0601397

(Page 2 of 13)

CF-6R

RYLAND HOMES

Site Address **LIBERTY LANE - LOT**

Permit Number

FENESTRATION/GLAZING: PLAN 3 ELEV. C

Manufacturer/Brand Name (GROUP LIKE PRODUCTS)	Product U-Factor ¹ (≤ CF-1R value) ²	Product SHGC ¹ (≤ CF-1R value) ²	# of Panels	Total Quantity of Like Product (<i>Outline</i>)	Square Feet	Exterior Shading Device or Overhang	Comments/Location/ Special Features
1. PHILIPS WHITE							
2. VINYL WINDOWS							
3. W/ LOWE2 GLASS							
4.							
5. XO	35			0	0		
6. SH	35			13	167		
7. PW	32			4	30		
8. SGD	33			1	40		
9.							
10.							
11.							
12.							
13.							
14.							
15.							

¹ Manufactured fenestration products use the values from the product label. Field fabricated fenestration products use the default values from Section 116 of the Energy Efficiency Standards.

² Installed U-Factor must be less than or equal to values from CF-1R. Installed SHGC must be less than or equal to values from CF-1R, or a shading device (exterior or overhang) is installed as specified on the CF-1R. Alternatively, installed weighted average U-Factors for the total fenestration area are less than or equal to values from CF-1R.

I, the undersigned, verify that the fenestration/glazing listed above my signature: 1) is the actual fenestration product installed; 2) is equivalent to or has a lower U-Factor and lower SHGC than that specified in the certificate of compliance (Form CF-1R) submitted for compliance with the *Energy Efficiency Standards* for residential buildings; and 3) the product meets or exceeds the appropriate requirements for manufactured devices (from Part 6), where applicable.

Item #s
(if applicable)

[Signature] 1/6/2006
Signature, Date

Sacramento Building Products

Installing Subcontractor (Co. Name) OR
General Contractor (Co. Name) OR Owner
OR Window Distributor

Item #s
(if applicable)

Signature, Date

Installing Subcontractor (Co. Name) OR
General Contractor (Co. Name) OR Owner
OR Window Distributor

Item #s
(if applicable)

Signature, Date

Installing Subcontractor (Co. Name) OR
General Contractor (Co. Name) OR Owner
OR Window Distributor

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

4197 PROMENADE

0601397

INSTALLATION CERTIFICATE

(Page 1 of 12)

CF-6R

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).

WATER HEATING SYSTEMS:

Heater Type	CEC Certified Mfr Name & Model Number	Distribution Type (Std, Point-of-Use, etc)	If Recirculation, Control Type	# of Identical Systems	Rated Input (kW or Btu/hr) ¹	Tank Volume (gallons)	Efficiency (EF, RE) ²	Standby Loss (%) ¹	External Insulation R-value ²
GAS	A.O. SMITH E.V.R. 52	STD	N/A	1	48,336	50	.67	N/A	N/A

1. For small gas storage (rated input of less than or equal to 75,000 Btu/hr), electric resistance and heat pump water heaters, list Energy Factor (EF). For large gas storage water heaters (rated input of greater than 75,000 Btu/hr), list Recovery (RE), Thermal Efficiency, Standby Loss and Rated Input. For instantaneous gas water heaters, list Thermal Efficiency and Rated Input.
2. R-12 external insulation is mandatory for storage water heaters with an energy factor of less than 0.58.

Kitchen Piping:
If indicated on the CF-1R, all hot water piping \geq 3/4 inches in diameter that runs from the hot water source to the kitchen fixtures is insulated.

Faucets & Shower Heads:
All faucets and showerheads installed are certified to the Energy Commission, pursuant to Title 24, Part 6, Section 111.

Central Water Heating in Buildings with Multiple Dwelling Units (required for prescriptive)

- All hot water piping in main circulating loop is insulated to requirements of §150(j)
- Central hot water systems serving six or fewer dwelling units which have (1) less than 25' of distribution piping outdoors; (2) zero distribution piping underground; (3) no recirculation pump; and (4) insulation on distribution piping that meets the requirements of Section 150(j)
- Central hot water systems serving more than 6 dwelling units - presence of either a time control or a time/temperature control

I, the undersigned, verify that equipment listed above my signature is: 1) 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.

[Signature] 1/17/06
Signature, Date

[Signature]
Installing Subcontractor (Co. Name) OR
General Contractor (Co. Name) OR Owner

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

THIS FORM IS TYPICAL FOR PLANS 1-2
Residential Compliance Forms

March 2005

INSTALLATION CERTIFICATE

CF-98

LOT

PLAN

Ryland Homes Liberty lane

4197 PROMENADE

0601397

Permit Number

Site Address

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; however, use of this form to provide the information is optional.) 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(b).

HVAC SYSTEMS:

Heating Equipment

Equip. Type (pkg. Heat pump)	CEC Certified Mfr name and Model #	# of Identical Systems	(1) Efficiency (AFUE, etc.) > CF-1R value	Duct Location (attic, etc.)	Duct or Piping R-value	Heating Load (Btu/hr)	Heating Capacity (Btu/hr)	
FURNACE	Carrier 58STX070-12	1	80%	ATTIC	R-6	30,258	70,000	Plan 1
FURNACE	Carrier 58STX070-12	1	80%	ATTIC	R-6	30,704	70,000	Plan 2
FURNACE	Carrier 58STX070-12	1	80%	ATTIC	R-6	32,246	70,000	Plan 3
FURNACE	Carrier 58STX070-12	1	80%	ATTIC	R-6	24,627	70,000	Plan 4

Cooling Equipment

Equip. Type (pkg. Heat pump)	CEC Certified Compressor Unit Mfr Name and Model #	# of Identical Systems	(1) Efficiency (SEER, etc.) > CF-1R value	Duct Location (attic, etc.)	Duct R-value	Cooling Load (Btu/hr)	Cooling Capacity (Btu/hr)	
A/C	Carrier 38ETG030-3*	1	13.0	ATTIC	R-6	15,755	25,900	Plan 1
A/C	Carrier 38ETG030-3*	1	13.0	ATTIC	R-6	18,890	25,900	Plan 2
A/C	Carrier 38ETG030-3*	1	13.0	ATTIC	R-6	19,068	25,900	Plan 3
A/C	Carrier 38ETG030-3*	1	13.0	ATTIC	R-6	13,496	25,900	Plan 4

* = TXV valve installed as part of coil

(1) > reads greater than or equal to.

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.

[Signature]
Signature, Date

BEUTLER CORPORATION

Installing Subcontractor (Co. Name)

OR General Contractor (Co. Name) OR Owner