

CITY OF SACRAMENTO

Permit No: 9811055

1231 I Street, Sacramento, CA 95814

Insp Area: 1

Site Address: 2524 MORLEY WY SAC

Sub-Type: ASFR

Parcel No: 2930113013

Housing (Y/N): N

CONTRACTOR

OWNER

ARCHITECT

COOLEY PAUL N/MARIE K
2524 MORLEY WY
SACRAMENTO CA

95864

Nature of Work: ENCLOSING COVERED PORCH

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

Lender's Name _____ Lender's Address _____

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

License Class _____ License Number _____ Date _____ Contractor Signature _____

OWNER-BUILDER DECLARATION: I hereby affirm under penalty of perjury that I am exempt from the contractors License Law for the following reason (Sec. 7031.5, Business and Professions Code; any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors License Law (Chapter 9 (commencing with Section 7000) of Division 8 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars (\$500.00);

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

____ 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 11-4-98 Owner Signature Paul M. Cooley

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 11-4-98 Applicant/Agent Signature Paul M. Cooley

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 11-4-98 Applicant Signature Paul M. Cooley

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.

MANDATORY MEASURES CHECKLIST: RESIDENTIAL

MF-1R

Note: Lawwise 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 binding 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.	✓	
§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; minimum R-8 in raised concrete floors.	✓	
§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. Manufactured fenestration products have label with certified U-value, and infiltration certification. 3. Exterior doors and windows weatherstripped; all joints and penetrations caulked and sealed.	✓	
§150(g): Vapor barriers mandatory in Climate Zones 14 and 16 only.	N/A	
§150(f): Special infiltration barrier installed to comply with § 151 meets Commission quality standards.	N/A	
§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.	✓	
Space Conditioning, Water Heating and Plumbing System Measures:		
§110-13: 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. First 5 feet of pipes closest to water heater tank, non-recirculating systems, insulated (R-4 or greater) 2. 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. 3. All buried or exposed piping insulated in recirculating sections of hot water systems. 4. Cooling system piping below 55° F insulated. 5. Piping insulated between heating source and indirect hot water tank.	✓	
* §150(m): Ducts and Fans 1. Ducts constructed, installed and sealed to comply with UMC sections 601 and 603; ducts insulated to a minimum installed R-4.2 or ducts enclosed entirely within conditioned space. 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.	N/A	
§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)	✓	
Lighting Measures:		
§150(k): 40 lumens/watt or greater for general lighting in kitchens and rooms with water closets; and recessed ceiling fixtures are IC (insulation cover) approved.	✓	

Project Title: COOLEY FAMILY ADDITION
 Project Address: SACRAMENTO, CA
 Documentation Author: VALLEY ENERGY (916) 364-1786 Telephone: 12
 Compliance Method (Package, Point System or Computer): COMPONENT- ADDITION Climate Zone: 12

Date: 11/3/98

Building Permit #
Plan Check / Date
Field Check / Date
Enforcement Agency Use Only

GENERAL INFORMATION

Total Conditioned Floor Area: 203 ft²
 Building Type: Single Family Addition
 (check one or more) Multi-Family Existing-Plus-Addition
 Front Orientation: North / East / South / West / All Orientations
 (Input orientation in degrees and circle one.)
 Number of Dwelling Units: 1
 Floor Construction Type: Slab Raised Floor (circle one or both)

BUILDING SHELL INSULATION

Component Type	Insulation R-Value	Construction Assembly U-Value	Location/Comments (attic, to garage, typical, etc.)
Wall	<u>13</u>		<u>TYPICAL</u>
Wall			
Roof	<u>38</u>		<u>ATTIC</u>
Roof			
Floor			
Floor			
Slab Edge	<u>0</u>		<u>TYPICAL</u>

FENESTRATION

Fenestration Orientation	Area (sf)	Fenestration U-Value	Shading Devices		Overhang (yes/no)	Framing Type (metal/wood/vinyl)
			Interior (roller blind, etc.)	Exterior (shadescreen, etc.)		
Front ()						
Front ()						
Left ()						
Left ()						
Rear ()						
Rear ()						
Right (E)	<u>49.1</u>	<u>0.73</u>	<u>DRAPES</u>	<u>NONE</u>	<u>NO</u>	<u>METAL</u>
Right ()						
Skylight	<u>16</u>	<u>0.77</u>	<u>NONE</u>	<u>NONE</u>	<u>NO</u>	<u>METAL</u>
Skylight						

THERMAL MASS

Type/Covering (slab/exposed, tile, etc.)	Area (sf)	Thickness (inches)	Location/Description (kitchen, bath, etc.)
<u>EXPOSED SLAB</u>	<u>203</u>	<u>4"</u>	<u>TYPICAL</u>

Project Title: HELM ADDITION Date: 11/3/98

HVAC SYSTEMS

Note: Input hydronic or combined hydronic data under Water Heating Systems, except Design Heating Load.

Heating Equipment Type (furnace, heat pump, etc.)	Minimum Efficiency (AFUE/HSPF)	Distribution Type and Location (ducts/attic, etc.)	Duct or Piping R-Value	Thermostat Type
<u>EXISTING</u>				

Cooling Equipment Type (air conditioner, heat pump, evap. cooling)	Minimum Efficiency (SEER)	Duct Location (attic, etc.)	Duct R-Value	Thermostat Type	Configuration (split or package)
<u>EXISTING</u>					

WATER HEATING SYSTEMS

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

¹ For small gas storage (rated input ≤ 75,000 Btu/hr), electric resistance and heat pump water heaters, list Energy Factor. For large gas storage water heaters (rated input ≥ 75,000 Btu/hr), list Rated Input, Recovery Efficiency and Standby Loss. For instantaneous gas water heaters, list Rated Input and Recovery Efficiency.

SPECIAL FEATURES/REMARKS (Add extra sheets if necessary)

REMOVING 135 # SGL/CLR GLASS & ADDING 65.1 # (N) DBL/CLR. GLASS

COMPLIANCE STATEMENT

This certificate of compliance lists the building features and performance specifications needed to comply with Title 24, Parts 1 and 6, of the California Code of Regulations, and the administrative regulations to implement them. This certificate has been signed by the individual with overall design responsibility. When this certificate of compliance is submitted for a single building plan to be built in multiple orientations, any shading feature that is varied is indicated in the Special Features/Remarks section.

Designer or Owner (per Business & Professions Code)

Name: _____
 Title/Firm: _____
 Address: _____
 Telephone: _____
 Lic. #: _____
 (signature) _____ (date) _____

Documentation Author

Name: GREGORY M. MIZE
 Title/Firm: VALLEY ENERGY
 Address: 10308 PLACER LN. #200
SACRAMENTO, CA 95827
 Telephone: (916) 364-1786
 (signature) Gregory M. Mize 11/3/98 (date)

Enforcement Agency

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

SLAB-ON-GRADE ADDITIONS - Thermal Mass Compliance Options

For slab-on-grade construction, the thermal mass requirement can be met in one of three ways:

Option 1: 20% of the new slab-on-grade area must be exposed.

Option 2: Use two layers of 1/2" gypsum board on the walls and ceiling.

Option 3: Perform the following calculations to account for various common mass types within the addition:

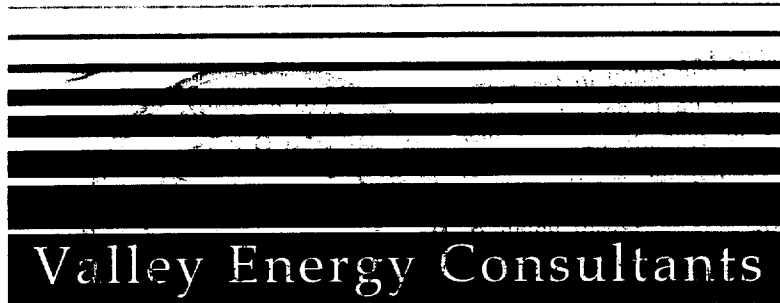
- A) Calculate the required thermal mass for a slab floor addition using the following calculation:

$$2.36 \times \frac{203}{\text{(New slab-on grade area)}} \text{ square feet} = \frac{479}{\text{(Minimum IMC GOAL)}}$$

- B) Calculate the thermal mass Interior Mass Capacities (IMCS) by multiplying the area of each type of thermal mass times the Unit Interior Mass Capacity (UIMC) for that mass. UIMC values for common masses are included in the calculation. (A complete list of UIMC values is included in Table 3-2a of the *Residential Manual*.)

Type of mass	Mass Area		UIMC	=	IMC
Covered Slab	_____	x	1.8	=	_____
Exposed Slab	203	x	4.6	=	934
0.63" (5/8) Gypsum	_____	x	0.1	=	_____
1.0" Gypsum	_____	x	0.5	=	_____
0.50" Tile	_____	x	0.8	=	_____
1.0" Tile	_____	x	1.7	=	_____
TOTAL =					934

- C) If the TOTAL IMC meets or exceeds the Minimum IMC GOAL, the thermal mass requirement is met.



Title 24
Energy Compliance Documentation

Prepared for PAUL COOLEY

Project Title PAUL COOLEY ADDITION
Sacramento, CA

**City of Sacramento Development Services Division
Planning and Zoning Information Request**

Project Address: 2524 Morley Way

Assessor's Parcel Number: 293-013-013

Current Land Use: _____

Description of Request/Proposed Use: New Sunroom + remodel

Zoning Designation: R-1

Prior Applications for Project Site(P#,Z#,DRPB#): _____

Comments: Not in D.R. Area
Setbacks + lot coverage O.K.

- Are There Any Planning Issues?: (Circle One) YES NO
- Site Plan Check Required? (Circle One) YES NO
- Design Review/ Preservation Required?: (Circle One) YES NO

Planning Review by/Date: H. Perry 10.26.98

A list of items that must be reviewed by Planning is provided on the reverse side of this form.



Structural Calculations
For
Cooley House

2524 Morley Way
Sacramento, Ca 95864

October 27, 1998

RECEIVED

OCT 29 1998

Building Inspection Division

BY

Paul Cooley
2524 Morley Way
Sacramento, Ca 95864
(916) 979-9081
Fax (916) 482-8995



Cooley
2524 Morley Way
Sacramento, CA 95864

Loads
Cooley Residence
Paul Cooley

10-27-98

Roof

Roofing (Tile)	10.0 psf
Sheathing	2.0
Framing	5.0
Ceiling	3.0
	<hr/>
	20.0
Slope Factor	\times 1.0
	<hr/>
D.L.	20 psf
L.L.	16.0
	<hr/>
	36.0 psf

Ceilings

Framing	5.0
Ceilings	3.0
	<hr/>
	8.0
D.L.	= 8.0
L.L.	16.0
	<hr/>
	24.0 psf

Notes:

Design to conform to the 1994 Uniform Building Code
Horizontal framing to be Doug Fir #2 unless otherwise noted

2524 Morley Way
Sacramento, CA 95864

Cooley Residence
Paul Cooley

10-27-98

New Header in Hallway L=7'

$$W = (7' + 7') \times 36 = 504 \text{ plf}$$

$$S = \frac{(1.5)(504)(7)^2}{875} = 42.3 \text{ in}^3$$

$$A = \frac{(1.5)(504)(3.5)}{85} = 31.1 \text{ in}^2$$

use 4" x 10" D.F. NO 2

Existing Header Between Family Room & Sunroom L=11'

$$W = 36.0 \times 9.0 = 324 \text{ plf}$$

$$S_E = \frac{(1.5)(324)(11)^2}{875} = 67.2 \text{ in}^3$$

$$A = \frac{1.5(324)(5.5)}{85} = 31.4 \text{ in}^2$$

D.F. No 2 Existing 3 1/2" x 11 1/4" header $S = 73.8 \text{ in}^3 \checkmark$
 $A = 39.4 \text{ in}^2 \checkmark$



Cooley Residence
Paul Cooley

10-27-98

Light & Ventilation Requirements

- Sun room Area $(12 \times 7) + (13.5 \times 7) = 178.5 \text{ sf}$
- Family Room $(22 \times 5) + (19.5 \times 11) + (8 \times 2) = 340.5 \text{ sf}$
- Kitchen Area $(12 \times 19.5) = 234.0 \text{ sf}$

$$\begin{aligned} \text{Total Area for light} &= \frac{1}{10}(178.5 + 340.5) \\ &= \underline{51.9 \text{ sf}} \end{aligned}$$

$$\begin{aligned} \text{Total Area Venting} &= \frac{1}{20}(234 + 519) \\ &= \underline{37.65 \text{ sf}} \end{aligned}$$

Door & Windows

French Doors $6' \times 6'8''$ glass $\Rightarrow \frac{(24'' \times 63'') \times 2}{144}$

$$= 21 \text{ sf glass}$$

2 Casement Windows (openings) $2'4\frac{3}{8}'' \times 5'1\frac{1}{8}''$ glass $= \frac{(24'' \times 67'') \times 2}{144}$

$$= 22.33 \text{ sf}$$

2 Sky lights (openings) $(2' \times 4') \times 2 = 16 \text{ sf}$

Light	$21 + 22.3 + 16 = 59 > 51.9 \checkmark$	Vent	$38.3 > 37.65 \text{ sf} \checkmark$
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Cooley
2524 Morley Way
Sacramento, CA 95864

Loads
Cooley Residence
Paul Cooley

10-27-98

Roof

Roofing (Tile)	10.0 psf
Sheathing	2.0
Framing	5.0
Ceiling	3.0
	<hr/>
	20.0
Slope Factor	\times 1.0
	<hr/>
D.L.	20 psf
L.L.	16.0
	<hr/>
	36.0 psf

Ceilings

Framing	5.0
Ceilings	3.0
	<hr/>
	8.0
D.L =	8.0
L.L	16.0
	<hr/>
	24.0 psf

Notes:

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2524 Morley Way
Sacramento, CA 95864

Cooley Residence
Paul Cooley

10-27-98

New Header in Hallway L=7'

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use 4" x 10" D.F. No 2

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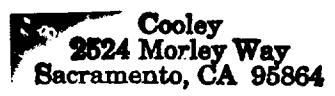
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Cooley Residence
Paul Cooley

10-27-98

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Family Room $(22 \times 5) + (19.5 \times 11) + (8 \times 2) = 340.5 \text{ sf}$

Kitchen Area $(12 \times 19.5) = 234.0 \text{ sf}$

Total Area for light = $\frac{1}{10}(178.5 + 340.5)$
 $= 51.9 \text{ sf}$

Total Area Venting = $\frac{1}{20}(234 + 519)$
 $= 37.65 \text{ sf}$

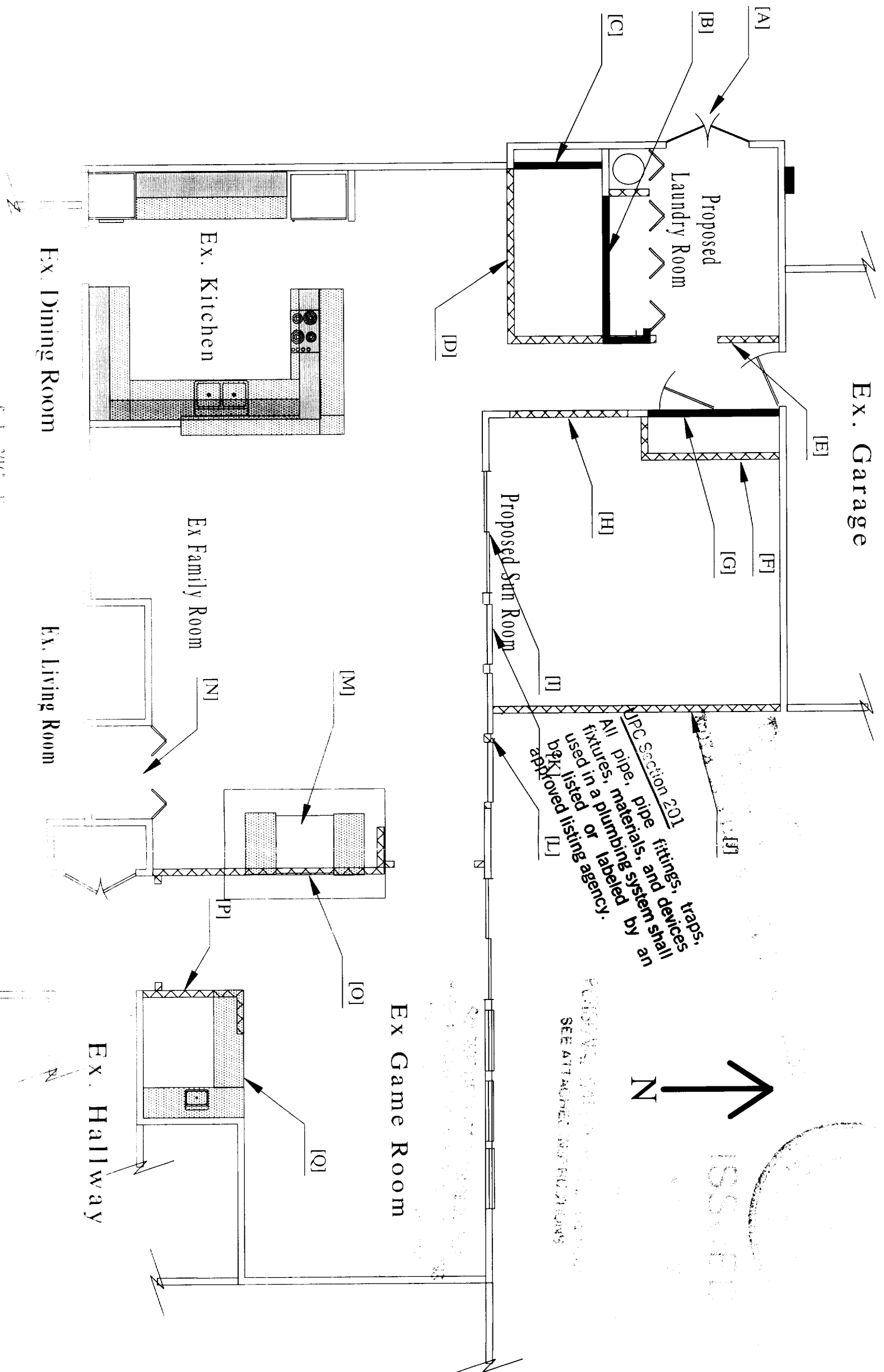
Door & Windows

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 $= 21 \text{ sf glass}$

2 Casement Windows (openings) $2'4\frac{3}{8}'' \times 5'11\frac{1}{8}''$ glass $= \frac{(24'' \times 67'') \times 2}{144}$
 $= 22.33 \text{ sf}$

2 Sky lights (openings) $(2' \times 4') \times 2 = 16 \text{ sf}$

Light $21 + 22.3 + 16 = 59 > 51.9 \checkmark$ Vent $38.3 > 37.65 \text{ sf} \checkmark$



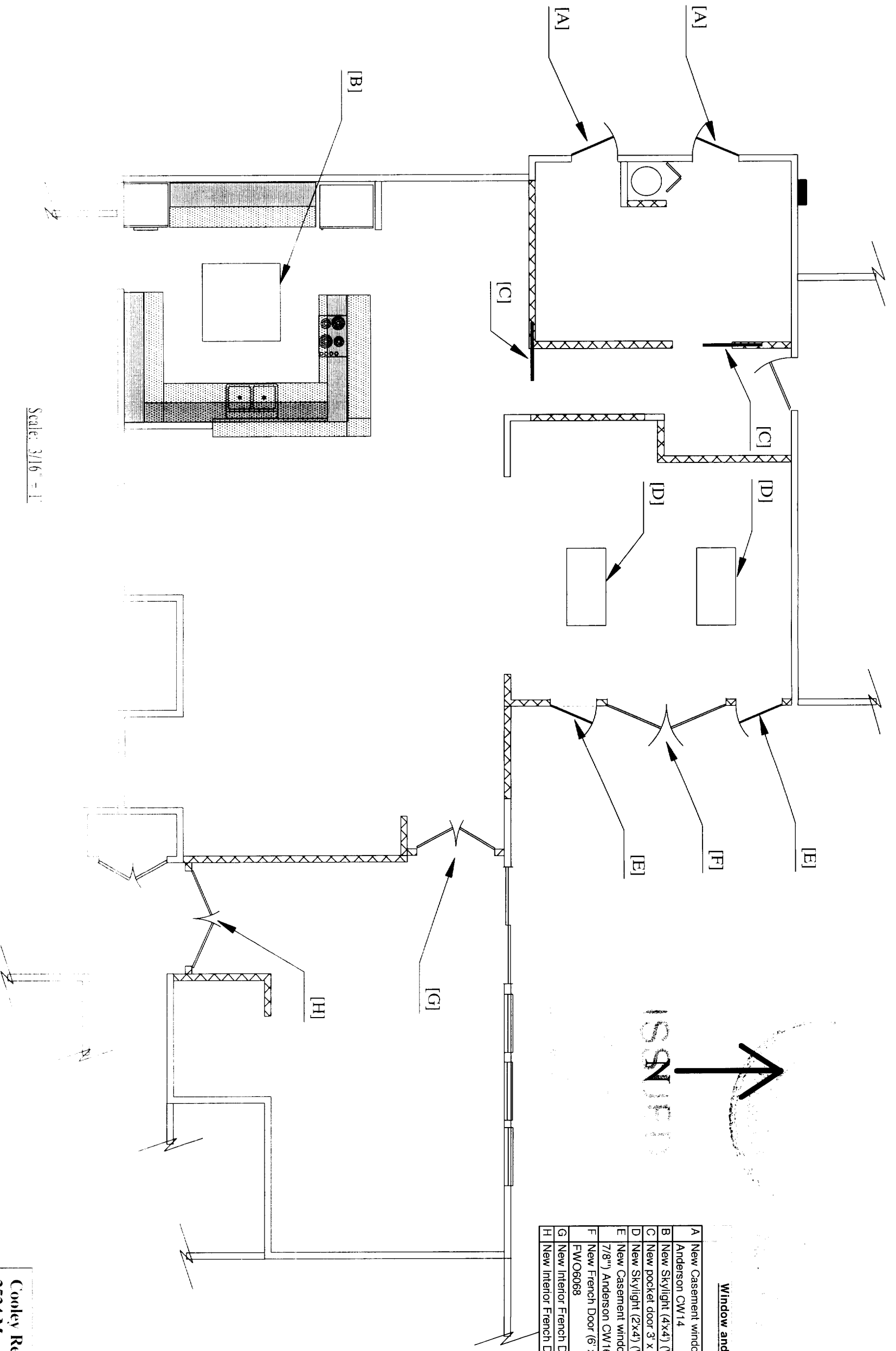
FOR USE IN THE CITY OF SACRAMENTO
 SEE ATTACHED INSTRUCTIONS

Demo Plan	
A	Remove existing casement windows and replace w/ wall and new windows. (see New Window and Door layout)
B	Remove existing wall and pantry closet.
C	Remove existing wall.
D	New 2x4 wall. (Non Bearing)
E	New 2x4 wall. (Non Bearing)
F	New 2x4 wall. (Non Bearing)
G	Remove existing wall and door. (see Structural Sheet for more detail)
H	Remove window and replace with wall. (This is an existing bearing wall and will remain one)
I	Remove existing 6'x6'8" sliding glass door to create 11' clear opening. (See Structural Sheet)
J	New 2x4 wall. (Non Bearing. Existing 2x12 beam to remain.)
K	Remove existing 3' x 6' 6" window. (See Structural Sheet)
L	Remove 2 existing 3' x 6' 6" window. Replace w/ 2x4 wall (See Structural Sheet)
M	Remove existing fireplace. Close hole in ceiling and roof.
N	Remove existing entertainment center.
O	New 2x4 wall (Non Bearing)
P	New 2x4 wall (Non Bearing)
Q	Remove existing Bar.

Demo Plan w/ New Walls

Scale: 3/16" = 1'

Coolley Residence
 2524 Morley Way
 Sacramento, Ca 95864



Window and Door Details

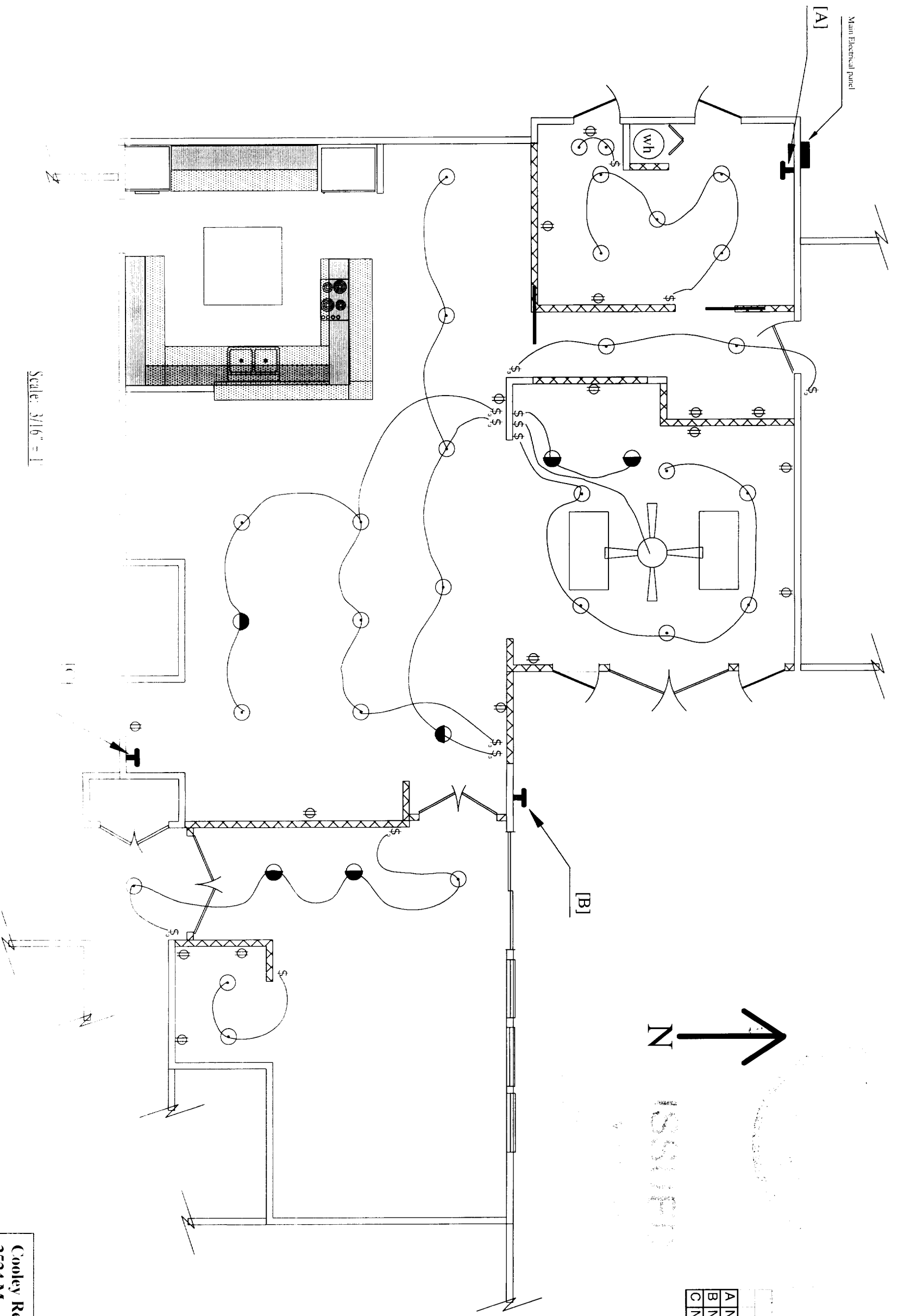
A	New Casement window. (2' 4 3/8" x 4') Anderson CW14
B	New Skylight (4x4) (Venting)
C	New pocket door 3' x 68"
D	New Skylight (2x4) (Venting)
E	New Casement window. (2' 4 3/8" x 5' 11 7/8") Anderson CW16
F	New French Door (6' x 68") Anderson FW06068
G	New Interior French Door (4' x 68")
H	New Interior French Door (5' x 68")

Scale: 3/16" = 1'

New Windows and Doors

Coolley Residence
 2524 Morley Way
 Sacramento, Ca 95864

Handwritten signature and notes:
 J. M. [Signature]
 6/30/2008



Electrical and Plumbing Plan	
A	New gas line for Dryer
B	New 1/2" gas line for BBQ
C	New gas line for Zero Clearance Fire place

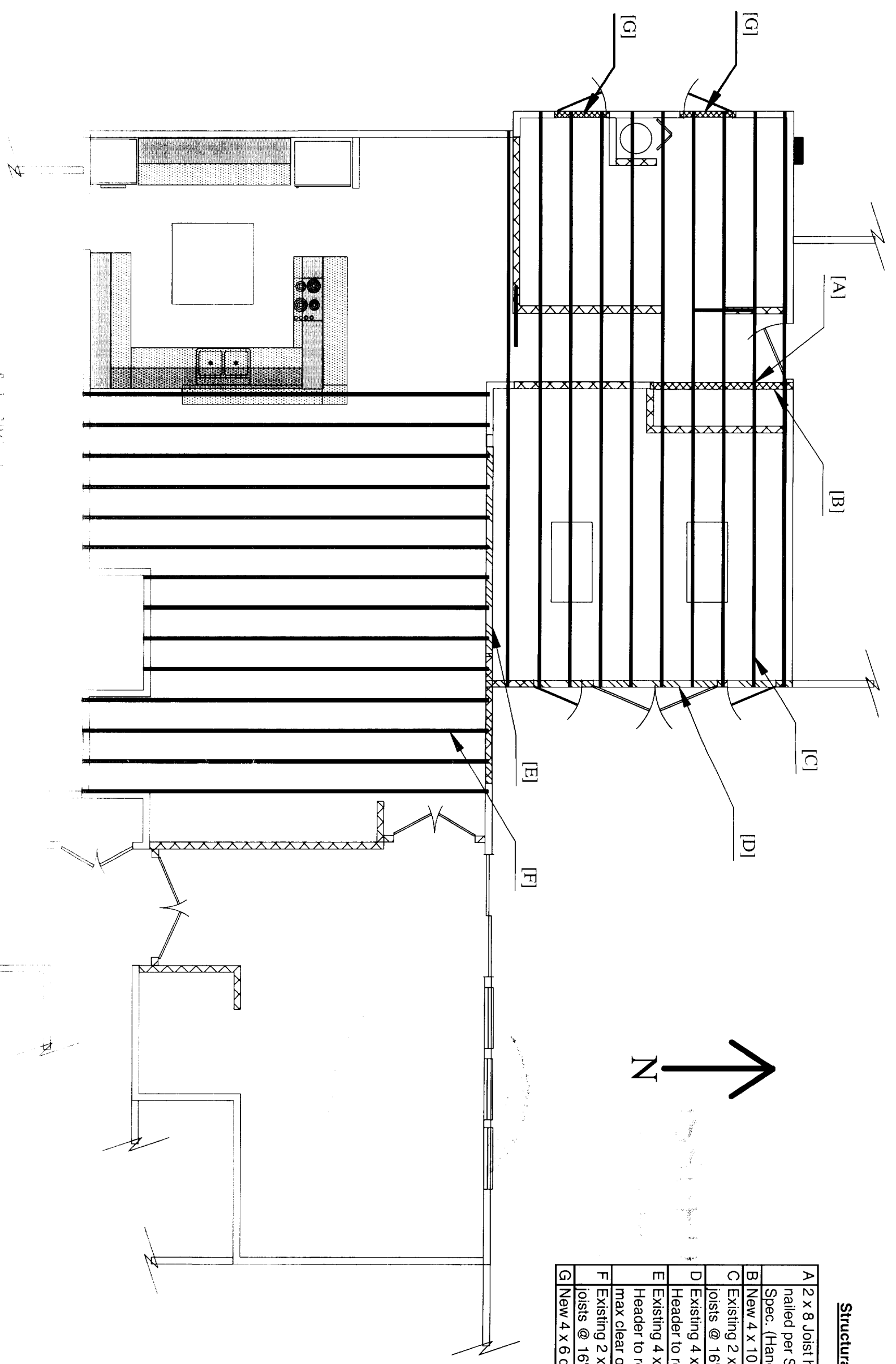
⊙	Can lighting
◐	Can wall lighting
⊕	Outlet
\$	Switch
\$₃	3-way Switch

Scale: 3/16" = 1'

Electrical and Plumbing Plan

Coolley Residence
 2524 Morley Way
 Sacramento, Ca 95864

Handwritten signature and date:
 [Signature]
 6/15/2001



Structural Sheet

A	2 x 8 Joist hangers nailed per Simpson Spec. (Hanger Nails)
B	New 4 x 10 d.f. header
C	Existing 2 x 8 ceiling joists @ 16" o.c.
D	Existing 4 x 12 d.f. Header to remain
E	Existing 4 x 12 d.f. Header to remain, 11' max clear opening.
F	Existing 2 x 8 ceiling joists @ 16" o.c.
G	New 4 x 6 d.f. header

Scale: 3/16" = 1'

Structural Detail Sheet 1 of 2

Coolley Residence
 2524 Morley Way
 Sacramento, Ca 95864

David M. Coolley
 01/20/2002