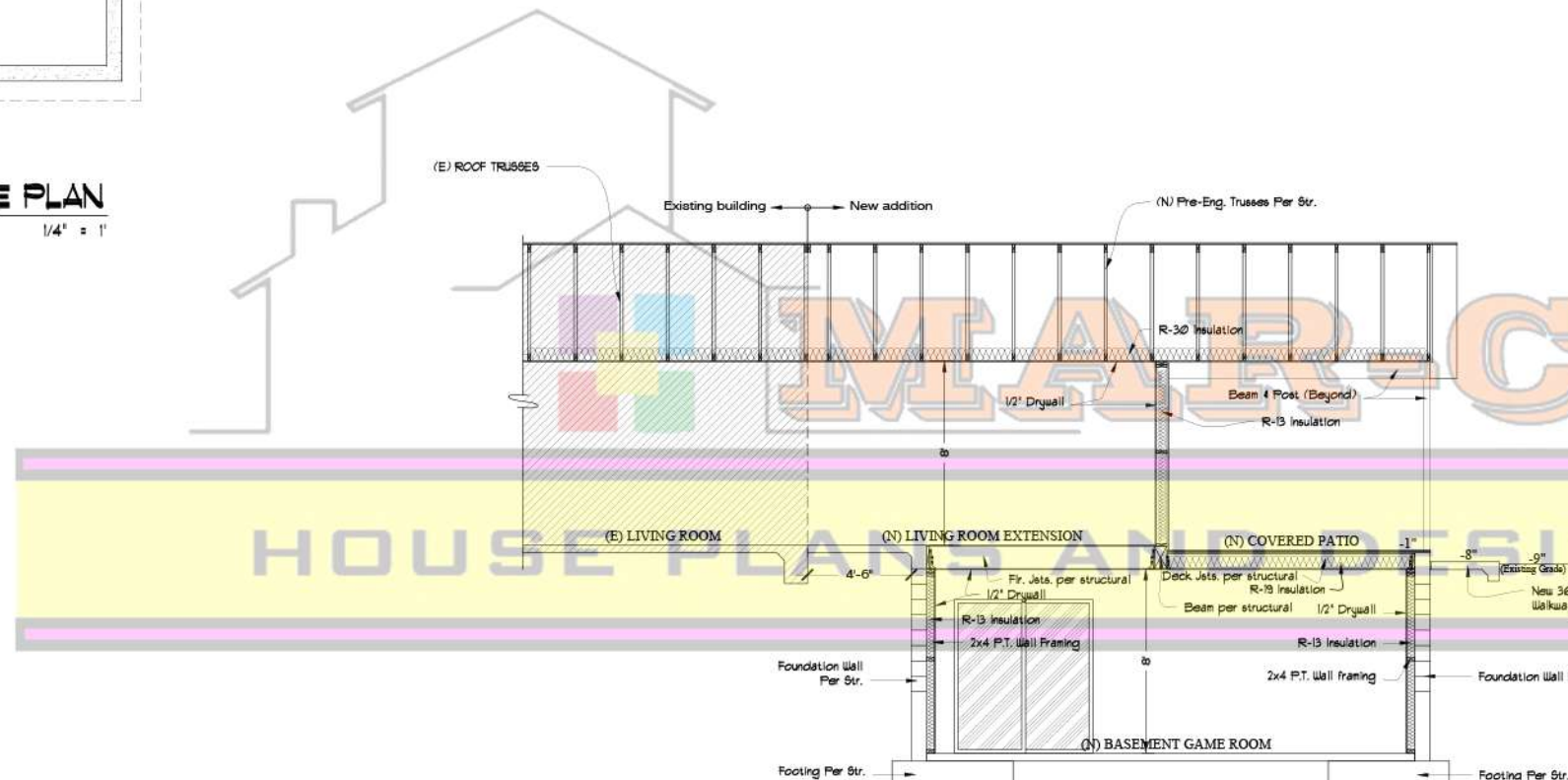


**BASEMENT DAMPROOFING & WATERPROOFING NOTES:**

- 1- PROVIDE WATER PROOFING OR A DRAIN SYSTEM THAT LOWERS WATER TABLE.
- 2- WALL DAMPROOFING FROM TOP OF FOOTING TO ABOVE GROUND.
- 3- BASEMENT FLOORS ABOVE GRADE PLANE REQ. FOUNDATION DRAIN FOR PORTIONS WHERE FLOOR BELOW GROUND LEVEL.
- 4- REPAIR HOLES OR RECESSES IN WALL PRIOR TO DAMPROOFING.
- 5- WALL DAMPROOFING BITUMEN OR OTHER APPROVED MATERIAL (BENTONITE).
- 6- FLOOR SLAB REQUIRED MIN. 6" THICK DAMPROOFING W/ MIN. 6" INCH JOINT LAP.
- 7- MIN. 4" INCH THICKNESS OF GRAVEL OR CRUSHED STONE UNDER BASEMENT FLOOR.
- 8- FOUNDATION DRAIN REQUIRED, CONSISTING OF GRAVEL OR CRUSHED STONE (WHERE A DRAIN TILE OR PERFORATED PIPE IS USED, THE INVERT OF THE PIPE OR TILE SHALL NOT BE HIGHER THAN THE FLOOR ELEVATION, THE TOP OR JOINTS OR THE TOP OF PERFORATIONS SHALL BE PROTECTED WITH AN APPROVED FILTER MEMBRANE MATERIAL, THE PIPE OR TILE SHALL BE PLACED ON NOT LESS THAN 2 INCHES OF GRAVEL OR CRUSHED STONE AND SHALL BE COVERED WITH NOT LESS THAN 6 INCHES OF THE SAME MATERIAL.)
- 9- DRAIN MIN. 3" INCH BEYOND OUTSIDE EDGE OF FOOTING.
- 10- BOTTOM OF DRAIN BELOW BOTTOM OF FLOOR BASE ROCK.
- 11- TOP OF DRAIN MIN. 6" INCH ABOVE TOP OF FOOTING.
- 12- TOP OF DRAIN PROTECTED W/ FILTER FABRIC.
- 13- ROCK OR CRUSHED STONE MIN. 2" INCH BELOW 4" INCH ABOVE DRAIN.
- 14- DRAIN DISCHARGE BY GRAVITY OR MECHANICAL MEANS (SUMP PUMP) PER CPC.



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§150(m)1: All air-distribution system ducts and plenums installed, are sealed and insulated to meet the requirements of CMC Sections 601, 602, 603, 604, 605 and Standard B-5; supply-air and return-air ducts and plenums are insulated to a minimum installed level of R-4, or enclosed entirely in conditioned space. Openings shall be sealed with mastic, tape or other duct-closure system that meets the applicable requirements of UL 181, UL 181A or UL 181B or aerosol sealant that meets the requirements of UL 723. If mastic or tape is used to seal openings greater than 1/4 inch, the combination of mastic and either mesh or tape shall be used.

§150(m)1: Building cavities, support platforms for air handlers, and plenums defined or constructed with materials other than sealed sheet metal, duct board or flexible duct shall not be used for conveying conditioned air. Building cavities and support platforms may contain ducts. Ducts installed in cavities and support platforms shall not be compressed to cause reductions in the cross-sectional area of the ducts.

§150(m)2D: Joints and seams of duct systems and their components shall not be sealed with cloth back rubber adhesive duct tapes unless such tape is used in combination with mastic and draw bands.

§150(m)7: Exhaust fan systems have back draft or automatic dampers.

§150(m)8: Gravity ventilating systems serving conditioned space have either automatic or readily accessible, manually operated dampers.

§150(m)9: Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Cellular foam insulation shall be protected as above or painted with a coating that is water retardant and provides shielding from solar radiation that can cause degradation of the material.

§150(m)10: Flexible ducts cannot have porous inner cores.

§150(o): All dwelling units shall meet the requirements of ANSI/ASHRAE Standard 62.2-2007 Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings. Window operation is not a permissible method of providing the Whole Building Ventilation required in Section 4 of that Standard.

**Pool and Spa Heating Systems and Equipment Measures:**

§114(a): Any pool or spa heating system shall be certified to have a thermal efficiency that complies with the Appliance Efficiency Regulations; an on-off switch mounted outside of the heater; a permanent weatherproof plate or card with operating instructions; and shall not use electric resistance heating or a pilot light.

§114(b)1: Any pool or spa heating equipment shall be installed with at least 36" of pipe between filter and heater, or dedicated suction and return lines, or bulk-up connections for future solar heating.

§114(b)2: Outdoor pools or spas that have a heat pump or gas heater shall have a cover.

§114(b)3: Pools shall have directional inlets that adequately mix the pool water, and a time switch that will allow all pumps to be set or programmed to run only during off-peak electric demand periods.

§150(p): Residential pool systems or equipment meet the pump sizing, flow rate, piping, filters, and valve requirements of §150(i).

**Residential Lighting Measures:**

§150(k)1: High efficacy luminaires or LED Light Engine with Integral Heat Sink has an efficacy that is no lower than the efficacies contained in Table 150-C and is not a low efficacy luminaire as specified by §150(k)2.

§150(k)3: The wattage of permanently installed luminaires shall be determined as specified by §130(d).

§150(k)4: Ballasts for fluorescent lamps rated 13 Watts or greater shall be electronic and shall have an output frequency no less than 20 kHz.

§150(k)5: Permanently installed night lights and night lights integral to a permanently installed luminaire or exhaust fan shall contain only high efficacy lamps meeting the minimum efficacies contained in Table 150-C and shall not contain a line-voltage socket or line-voltage lamp holder. OR shall be rated to consume no more than five watts of power as determined by §130(e), and shall not contain a medium screw base socket.

§150(k)6: Lighting integral to exhaust fans, in rooms other than kitchens, shall meet the applicable requirements of §150(k).

§150(k)7: All switching devices and controls shall meet the requirements of §150(k)7.

§150(k)8: A minimum of 50 percent of the total rated wattage of permanently installed lighting in kitchens shall be high efficacy. EXCEPTION: Up to 50 watts for dwelling units less than or equal to 2,500 sq ft or 100 watts for dwelling units larger than 2,500 sq ft may be exempt from the 50% high efficacy requirement when: all low efficacy luminaires in the kitchen are controlled by a manual on occupant sensor, dimmer, energy management system (EMCS), or a multi-scene programmable control system; and all permanently installed luminaires in garages, laundry rooms, closets greater than 70 square feet, and utility rooms are high efficacy and controlled by a manual-on occupant sensor.

§150(k)9: Permanently installed lighting that is internal to cabinets shall use no more than 20 watts of power per linear foot of illuminated cabinet.

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§150(k)10: Permanently installed luminaires in bathrooms, attached and detached garages, laundry rooms, closets and utility rooms shall be high efficacy. EXCEPTION 1: Permanently installed low efficacy luminaires shall be allowed provided that they are controlled by a manual-on occupant sensor certified to comply with the applicable requirements of §119. EXCEPTION 2: Permanently installed low efficacy luminaires in closets less than 70 square feet are not required to be controlled by a manual-on occupant sensor.

§150(k)11: Permanently installed luminaires located in rooms or areas other than in kitchens, bathrooms, garages, laundry rooms, closets, and utility rooms shall be high efficacy luminaires. EXCEPTION 1: Permanently installed low efficacy luminaires shall be allowed provided they are controlled by either a dimmer switch that complies with the applicable requirements of §119, or by a manual-on occupant sensor that complies with the applicable requirements of §119. EXCEPTION 2: Lighting in detached garage building less than 1,000 square feet located on a residential site is not required to comply with §150(k)11.

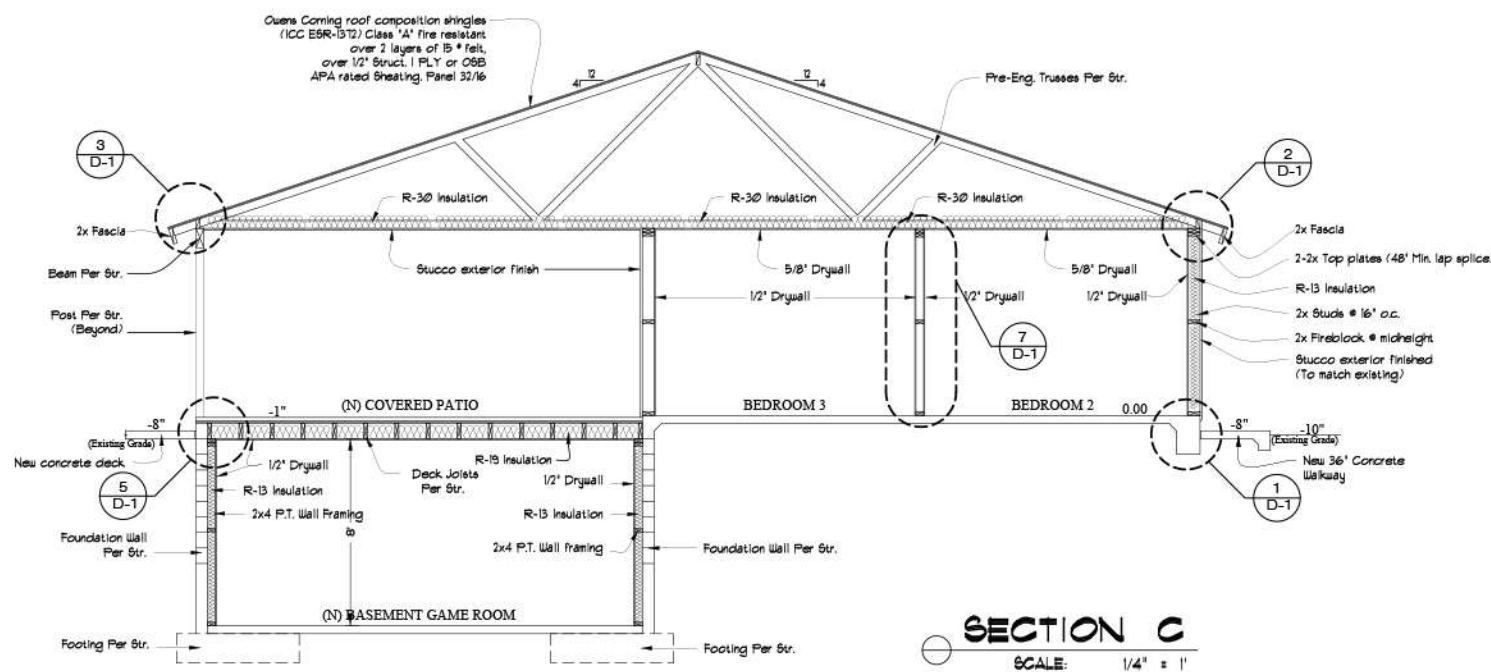
§150(k)12: Luminaires recessed into insulated ceilings shall be listed for zero clearance insulation contact (IC) by Underwriters Laboratories or other nationally recognized testing laboratory, and have a label that certifies the luminaire is airtight with air leakage less than 2.0 CFM at 75 Pascals when tested in accordance with ASTM E283; and be sealed with a gasket or caulk between the luminaire housing and ceiling.

§150(k)13: Luminaires providing outdoor lighting, including lighting for private patios in low-rise residential buildings with four or more dwelling units, entrances, balconies, and porches which are permanently mounted to a residential building or to other buildings on the same lot shall be high efficacy. EXCEPTION 1: Permanently installed outdoor low efficacy luminaires shall be allowed provided that they are controlled by a manual on/off switch, a motion sensor not having an override or bypass switch that disables the motion sensor, and one of the following controls: a photocell not having an override or bypass switch that disables the photocell; OR an astronomical time clock not having an override or bypass switch that disables the astronomical time clock; OR an energy management control system (EMCS) not having an override or bypass switch that allows the luminaire to be always on. EXCEPTION 2: Outdoor luminaires used to comply with Exception 1 to §150(k)13 may be controlled by a temporary override switch which bypasses the motion sensing function provided that the motion sensor is automatically reactivated within six hours. EXCEPTION 3: Permanently installed luminaires in or around swimming pool, water features, or other location subject to Article 680 of the California Electric Code need not be high efficacy luminaires.

§150(k)14: Internally illuminated address signs shall comply with Section 148; OR not contain a screw-base socket, and consume no more than five watts of power as determined according to §130(d).

§150(k)15: Lighting for parking lots and carports with a total of 8 or more vehicles per site shall comply with the applicable requirements of Sections 130, 132, 134, and 147. Lighting for parking garages for 8 or more vehicles shall comply with the applicable requirements of Sections 130, 131, 134, and 148.

§150(k)16: Permanently installed lighting in the enclosed, non-dwelling spaces of low-rise residential buildings with four or more dwelling units shall be high efficacy luminaires. EXCEPTION: Permanently installed low efficacy luminaires shall be allowed provided that they are controlled by an occupant sensor(s) certified to comply with the applicable requirements of §119.



**MARCO A. LAUREANO**  
HOUSE PLANS & DESIGNS  
PLANS DRAFTING DESIGN BUILDING PERMITS

**MR. & MRS. ANDRÉ BLAKEY**  
OWNERS NAME & ADDRESS

**BLAKEY'S HOUSE REMODEL**  
PROJECT NAME & ADDRESS

**REVISIONS:**  
07/24/2013  
08/01/2013  
DATE: 06/17/2013  
SCALE: AS SPECIFIED  
DRAWN & PREPARED BY: MARCO A. LAUREANO  
SHEET: A-4  
OF: 14