

CITY OF SACRAMENTO

Permit No: 9807170

1231 I Street, Sacramento, CA 95814

Insp Area: 2

Site Address: 6441 13TH ST SAC

Sub-Type: RES

Parcel No: 0240306008

Housing (Y/N): N

CONTRACTOR

YANCEY BROS
8250 ALPINE AV #D
SACRAMENTO CA 95826

OWNER

SHIMAZU PAUL T & LILY A
6441 13TH ST
SACRAMENTO CA 95831

ARCHITECT

Nature of Work: RETROFIT A COMP. ROOF TO FIT TILE.

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 C License Number 731709 Date 7/29/98 Contractor Signature [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 Owner Signature

IN ISSUING THIS BUILDING PERMIT, the applicant represents, and the city relies on the representation of the applicant, that the applicant verified all measurements and locations shown on the application or accompanying drawings and that the improvement to be constructed does not violate any law or private agreement relating to permissible or prohibited locations for such improvements. This building permit does not authorize any illegal location of any improvement or the violation of any private agreement relating to location of improvements.

I certify that I have read this application and state that all information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction and herby authorize representative(s) of this city to enter upon, the abovementioned property for inspection purposes.

Date 7/29/98 Applicant/Agent Signature [Signature]

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 State Farm Policy Number 1469438

(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 7/29/98 Applicant Signature [Signature]

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.

**Paul Zacher-Structural Engineers**4701 Lakeside Way  
Fair Oaks, CA 95628TEL: 916.961.3960  
FAX: 916.961.3960  
e-mail: pzacher@softcom.net

July 20, 1998

Yancey Bros.  
8250-D Alpine Avenue  
Sacramento, CA 95826  
TEL: 916.457.5113  
FAX: 916.457.5427

Attn: Mr. Rob George,

re: Job 98150 SHIMAZO: PO#10434

Subject: Structural Investigation Report of the Roof for the Residence located at 6441 13<sup>th</sup>  
Street, Sacramento, CA 95831

As requested by Mr. Rob George, this is a report to determine what needs should be addressed to correct any structural deficiencies of the roof. Paul Zacher visited the site July 17, 1998. The investigation was made to determine the existing condition of the structure. All information, data and analysis contained within this report is based on the 1994 Uniform Building Code.

The following is based on visual observations with no subsurface investigation being made.

**DESCRIPTION:**

Type of Facility	Residence.
Year Built:	Estimated 1980's vintage.
Occupancy:	Residential.
No. of Stories:	One.
Dimensions:	Approximately 1800 square feet with a first story plate height of 8 feet.

**CONSTRUCTION:****Roof:**

The roof covering will consist of Light Weight Concrete Tile over 1/2" solid sheathing. The living area is conventionally framed with 2x4 rafters spaced at 24" on center with 2x4 purlins supported at no more than 10'-0" on center by 2x4 struts bearing on walls below. The garage area is framed with 2x4 rafters spaced at 24" on center and 2x6 cross ties spaced at 4'-0" on center

**CONCLUSIONS:****Roof**

The living and garage areas lack sufficient structural capacity for the applied live and dead loads.

**RECOMMENDATIONS:**

If any of the following recommendations do not correspond to actual field conditions, the engineer of record shall be notified for further investigation and evaluation before continuing work.

**Living Area:**

- 1 Scab a 2x10 DF#2 x 11'-0" long purlin to the existing 2x4 purlin which spans 11'-0". Attach it with 16d's @ 3" on center. Support the 2x10 to the bearing walls below with 2x4 struts. See details 1 and 2.
- 2 Add a 1/2" OSB gusset plate adjacent to each existing strut and rafter connection (4'-0" on center) and attach it with 8d's at 6" on center at the edges. See details 1 and 3.
- 3 Scab a 2x4 rafter to the existing 2x4 rafters with 16d's @ 12" on center where the span is greater than 7'-10".

**Garage:**

- 4 Scab a 1 3/4" x 11 7/8" microlam beam to the existing 2x6 crosstie and nail together with 16d's @ 12" oc. The ends of the microlam may be clipped as required to meet the slope of the rafters. The support at the walls shall be a 2x8 x 1'-4" long nailer attached to the double top plate with 16d's @ 2" oc staggered. Support the existing purlin to the microlam beam with 2x4 struts spaced at no more than 4'-0" oc. See details 1,4 and 5.

The inspection consisted of visual observation only, made solely to determine the structural capacity of the existing roof. Analysis does not determine any effects on the overall structure under lateral forces or effects on the foundation unless specifically noted in the calculations and in this document. No warranties, expressed or implied, are made or intended in conjunction with this report. The inspection was made only to the portions that were accessible. The specific items noted were those that were observable and there may be defects which are not observable, or are hidden by architectural and structural materials.

If you have any questions on the above, do not hesitate to call.

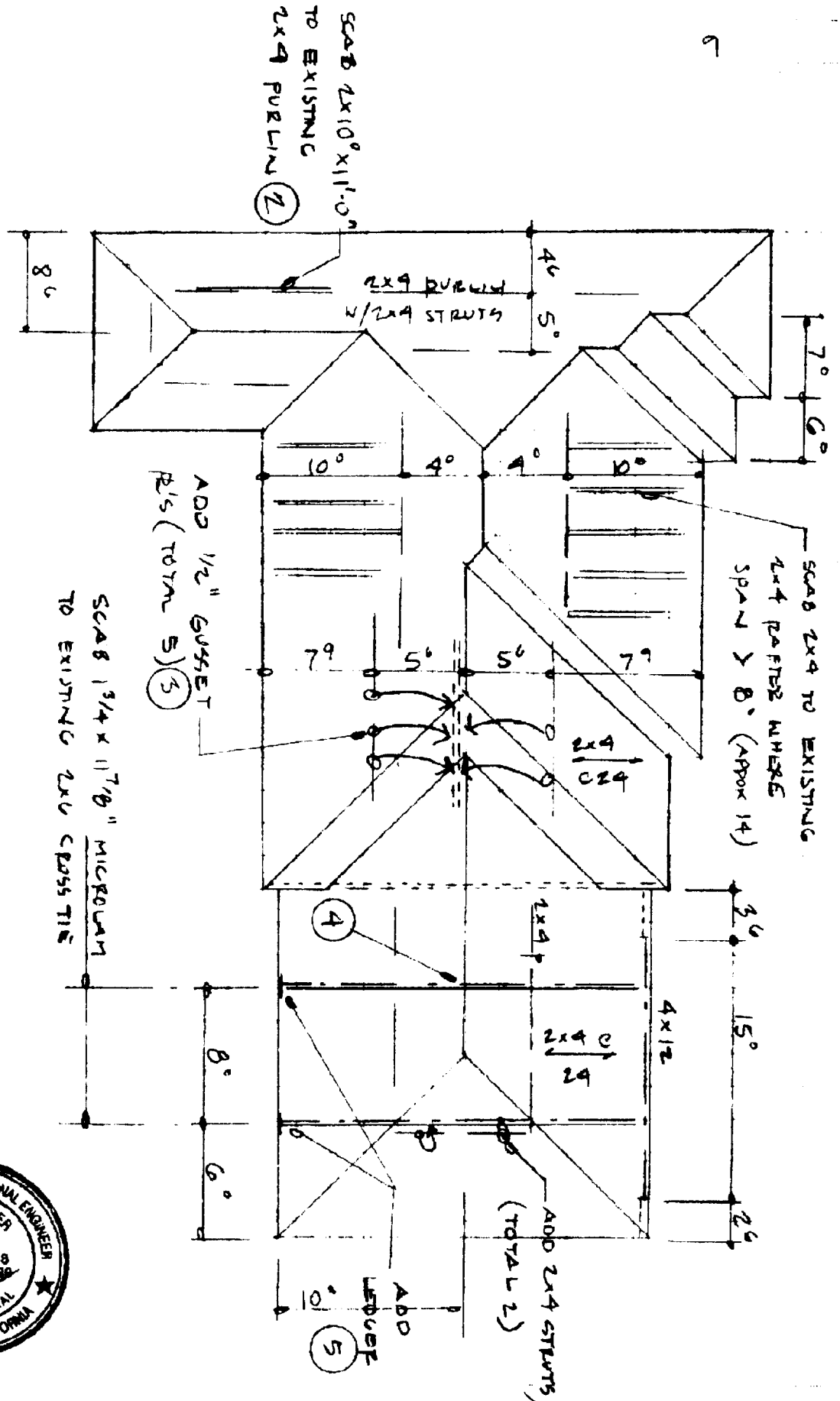
Sincerely,



Paul Zacher, P.E., S.E.

file

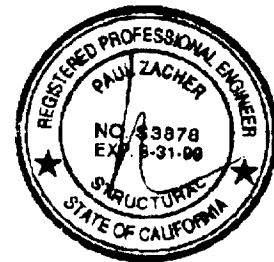
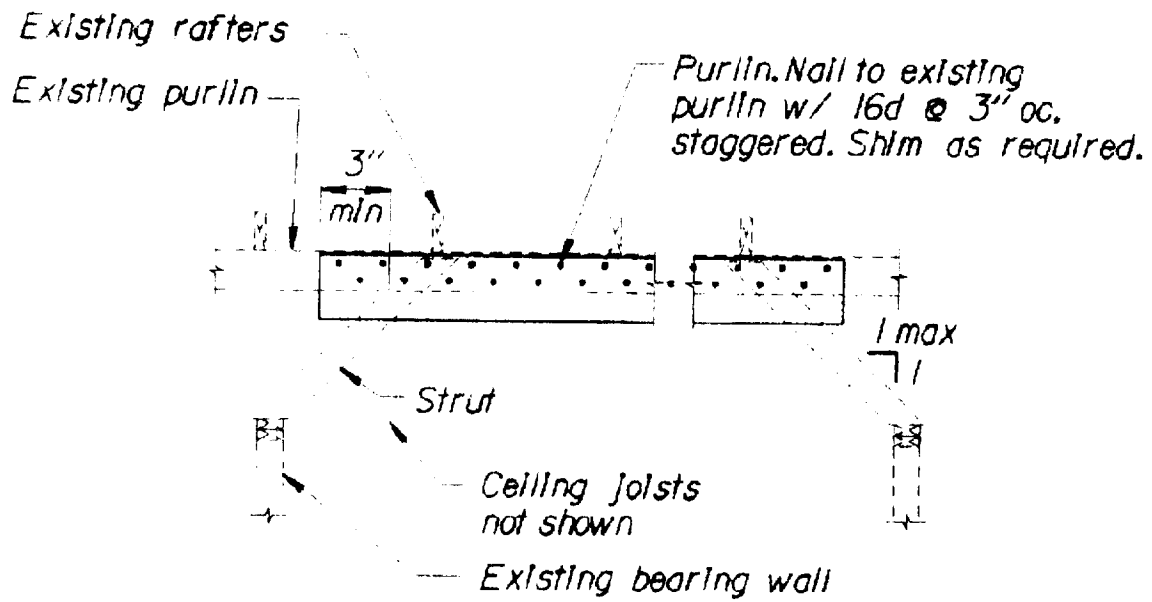




1 ROOF PLAN - SHIMAZU  
N.T.S.



10

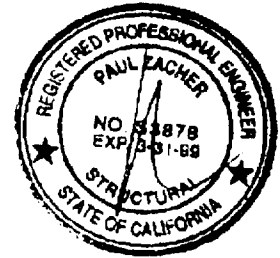
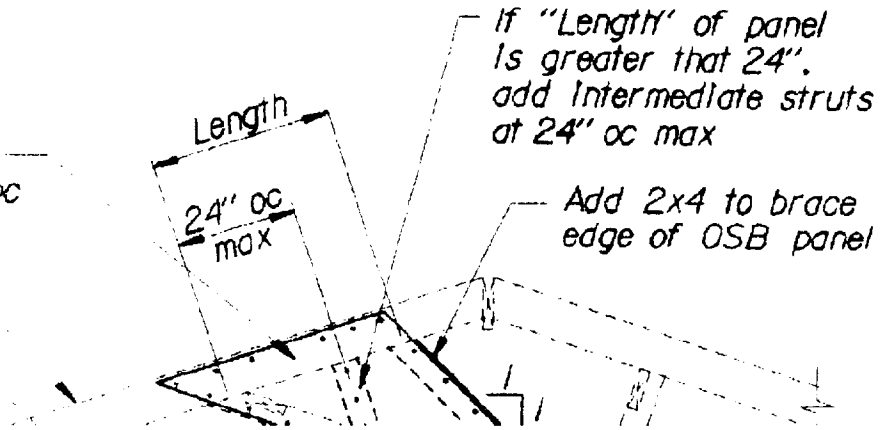


DI/DI IN DETAIL

Add 2x4 shim as req'd w/ 16d @ 8" oc to existing member

Existing rafter

Existing ceiling Joist



5

GUSSET PLATE DETAIL

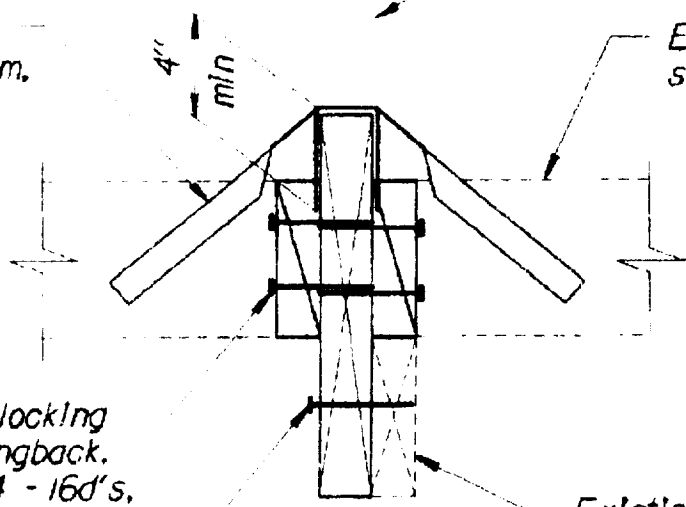
1/2" = 1'-0"

12

Simpson TS18,  
strongback to beam,  
each side

Strut not shown  
(where occurs)

Existing 2x  
strongback



2x6 x 1'-0" long blocking  
both sides of strongback.  
Nail to beam w/ 4 - 16d's,  
typical each side of beam

Existing 2x cross tie  
or ceiling joist

Beam. Nail to cross tie/  
ceiling joist w/ 16d @ 12" oc



4

### BEAM DETAIL

NO SCALE

13

Ledger

**LEDGER DESIGN:**

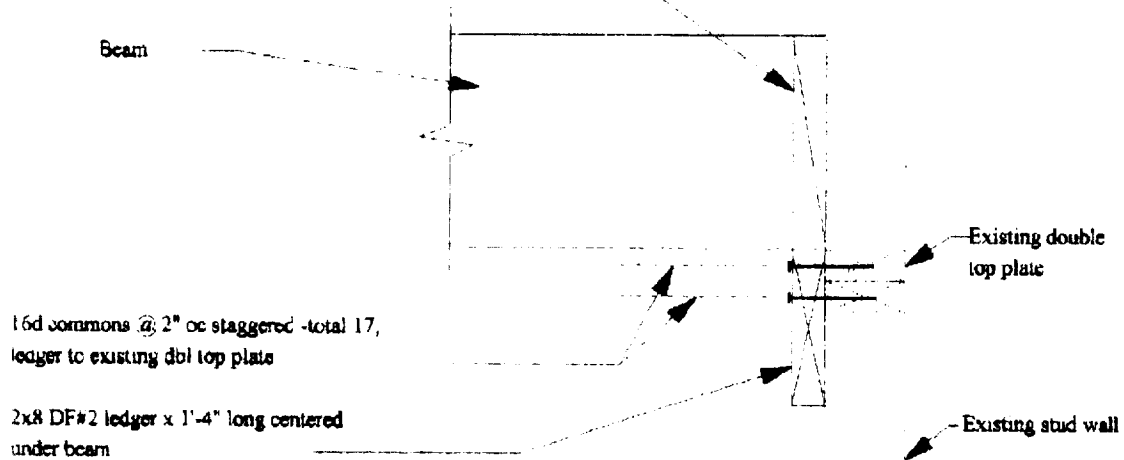
WOOD TO WOOD CONNECTION Ledger to double top plate

Assumptions:

- 1 Point load from beam is equally distributed to each supporting stud.
- 2 Allowable foundation pressure is 1000 plf.

Width, b	1.5 inches	
Depth, d	7.25 inches	
Maximum reaction	1325 lbs	
Base design values:		
Shear, Fv	95 psi	
Bending, Fb	875 psi	
Comp perp. to grain, Fc	625 psi	
Mod of elasticity, E	1600000 psi	
Load duration factor, Cd	1.25	
Size factor, Cf	1.20	
Allowable shear, Fv'	119 psi	Horizontal Shear OK
Actual shear, fv	73 psi	
Allowable bending, Fb'	1313 psi	Bending OK
Actual bending, fb	201 psi	
Length of ledger required	1.325 feet	
Length of ledger used	1.33 feet	
Number of nails required	17 16d commons ledger to top plate	

2'-0" long blocking both sides with  
4 - 16d commons to each existing stud



5 **DETAIL**  
N.T.S.







# ICBO Evaluation Service, Inc.

5360 WORKMAN MILL ROAD • WHITTIER, CALIFORNIA 90601-2299

A subsidiary corporation of the International Conference of Building Officials

## EVALUATION REPORT SUPPLEMENT NO. 1

Report No. 3748

April, 1994

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Filing Category: ROOF COVERING AND ROOF DECK CONSTRUCTION—Roof Covering (202)

### PIONEER CONCRETE INTERLOCKING ROOFING TILES

PIONEER ROOFING TILE, INC.  
10650 SOUTH POPLAR AVENUE  
FONTANA, CALIFORNIA 92335-7336

Subject: Pioneer Concrete Interlocking Roofing Tiles (issued December 1994)

Revise roof slopes in Table No. II

Description: A. General: Replace Table No. II with table in this report.

B and C: No change.

Evidence Submitted: No change

### Findings

IV. Findings: That the Pioneer concrete roofing tiles described in this report comply with the 1991 *Uniform Building Code*<sup>TM</sup> as Class A roof coverings, subject to the following conditions:

1. and 2.: No change.

That the changes noted herein comply with the 1991 *Uniform Building Code* and unless specifically noted in this report supplement, the master report remains valid and unchanged.

This report expires concurrently with the master report dated April, 1994.

TABLE NO. II—INSTALLATION PROCEDURES FOR REGULAR-WEIGHT TILES  
MAXIMUM WIND VELOCITY UP TO 80 MPH ROOF HEIGHTS NOT EXCEEDING 40 FEET<sup>1,4</sup>

ROOF SLOPE	FIELD NAILING		NAILING FOR PERIMETER TILE AND TILE ON CANILEVERED AREAS <sup>3</sup>
	Spaced or Solid Sheathing With Battens	Solid Sheathing Without Battens <sup>2</sup>	
3:12 to less than 5:12	Not required	Every tile	Every tile
5:12 to less than 12:12	Every tile every other row	Every tile	Every tile
12:12 and over	Every tile	Every tile	Every tile

<sup>1</sup>In areas designated by the building official as being subject to repeated wind velocities in excess of 80 mph or where roof height exceeds 40 feet above grade, all tiles shall be attached in accordance with Chapter 32 of the *Uniform Building Code* or as set forth below, whichever is more restrictive:

- (a) The heads of all tiles shall be nailed.
- (b) The noses of all eave course tiles shall be fastened with a special nail or clip.
- (c) All rake tiles shall be nailed with two nails.
- (d) The noses of all ridge, hip and rake tiles shall be set in a bead of approved roofers' mastic.

<sup>2</sup>For slopes 7:12 and above battens are required.

<sup>3</sup>Perimeter nailing areas include three tile courses but not less than 36 inches from either side of hips or ridges and edges of eaves and gable rakes. In special wind areas as designated by the building official, additional fastening may be required.

<sup>4</sup>Lightweight tiles must be installed in accordance with Table No. 32-D-2 of Chapter 32 of the *Uniform Building Code* and require a minimum of one fastener per tile, regardless of roof slope.

Evaluation reports of ICBO Evaluation Service, Inc., are issued solely to provide information to Class A members of ICBO, utilizing the code upon which the report is based. Evaluation reports are not to be construed as representing aesthetics or any other attributes not specifically addressed nor as an endorsement or recommendation for use of the subject report.

This report is based upon independent tests or other technical data submitted by the applicant. The ICBO Evaluation Service, Inc., technical staff has reviewed the test results and/or other data, but does not possess test facilities to make an independent verification. There is no warranty by ICBO Evaluation Service, Inc., express or implied, as to any "Finding" or other matter in the report or as to any product covered by the report. This disclaimer includes, but is not limited to, merchantability.



## EVALUATION REPORT

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Report No. 3748

April, 1994

### Filing Category: ROOF COVERING AND ROOF DECK CONSTRUCTION—Roof Covering (202)

#### PIONEER CONCRETE INTERLOCKING ROOFING TILES

PIONEER ROOFING TILE, INC.  
10650 SOUTH POPLAR AVENUE  
FONTANA, CALIFORNIA 92335-7336

**Subject:** Pioneer Concrete Interlocking Roofing Tiles.

**Description:** A. **General:** 1. **Regular Weight Tiles:** Pioneer concrete roofing tiles are produced in high profile Regal, low profile Hacienda, and flat styles with either smooth slate or textured shake surfaces. Ridge and eave trim units are produced to match each product.

The tiles are composed of portland cement, sand and proprietary additives. Mineral coloring oxides are added or are mixed with portland cement and water for surface application following extrusion. Units are cured under controlled temperature and humidity conditions. Tiles are 21 1/2 inches long, 13 inches wide and nominal 1/2 inch thick. They are manufactured with interlocking sidelaps, 5/16 inch for Regal and 1 1/2 inch for all other profiles, designed to resist surface water penetrations and maintain proper alignment. All tiles have protruding head lugs on the underside which provide mechanical attachment over wooden or metal battens. Two nail holes are provided in each tile. See Table No. I for installed weight with a minimum 3-inch headlap.

2. **Lightweight Tiles:** The Pioneer lightweight tiles are manufactured in the same manner, shape and size as regular weight tiles, substituting lightweight aggregate and proprietary additives for sand. See Table No. I for installed weight with minimum 3-inch headlap.

B. **Installation:** 1. **New Construction:** a. **General:** Care should be taken to ensure the tiles have proper vertical and horizontal alignment on the roof. All foreign particles are removed from the roof and interlocking areas to prevent breakage and water blockage. Cracked or broken tiles are repaired.

b. **Sheathing:** Solid or spaced sheathing complying with the code is required.

c. **Underlayment:** On roof slopes below 3:12 tiles are considered decorative only and must be applied over an approved roof covering subject to local building official's approval.

On roof slopes of 3:12 to below 4:12, an underlayment of one layer of Type 40 asphalt-coated base sheet is used. Battens and counterbattens are optional. When battens are used, 2-inch shims cut from asphalt shingles may be placed between the horizontal 1 by 2 battens and the roof deck instead of counterbattens.

On roof slopes of 4:12 and above underlayment is one layer of Type 30 asphalt-saturated organic felt on solid sheathing. When installed over spaced sheathing, a special underlayment complying with the ICBO ES Acceptance Criteria for Concrete Tile Underlayment on Spaced Sheathing is required over the rafters.

d. **Battens:** Nominal 1 by 2 wood battens, are required where roof slopes are below 3:12, to minimize roof membrane penetration. Battens are also required when roof slopes are 7:12 and above, to provide positive sheathing. Battens are nailed to the deck with 8-penny corrosion-res-

sistant box nails spaced at 24 inch centers or No. 16 gauge by 7/16-inch crown by 2-inch-long corrosion-resistant staples spaced on 12 inch centers. A 1/2-inch gap is left between adjoining battens every 4 feet to allow for water drainage. When battens longer than 4 feet are used, 2-inch square shims cut from asphalt shingles must be placed under the battens and nailed at a minimum of 24 inches on center, to provide drainage.

e. **Eaves:** Metal eave closure strips are installed when using Regal tiles. Eave riser strips of wood or metal are installed at eaves when using Hacienda, slate or shake tiles. Eave closure and/or eave risers elevate eave tiles to the proper height, and allow drainage of moisture accumulated beneath the tiles to escape through weep holes in metal or slots in wood.

f. **Headlap:** The distance between eave and ridge is divided into equally spaced courses to ensure maintenance of a minimum 3-inch headlap between successive tile courses.

g. **Tile Fastening:** Tiles are attached in accordance with Table No. II. All tile nails are minimum No. 11 gauge corrosion-resistant box or roofing nails with 5/16-inch head and sufficient length to penetrate 3/4 inch into wood battens or through the sheathing thickness, whichever is less. When attaching tiles to overhang areas where the nail points may be visible from underneath the sheathing, nominal 1 by 2 wood battens are nailed through the sheathing into rafters with one 8d nail in each rafter. Where field nailing is specified, one nail per tile is used. On roof slopes of 18:12 and above, two nails and a wind clip for each tile are required.

h. **Trim Tile:** Each hip or ridge tile is secured to nailer boards with one nail at the head and a dab of roofers mastic or other approved permanent adhesive placed over the nailing area to secure succeeding tile. Colored mortar may be used at hip and ridge ends or to fill open areas beneath the trim. All rake tiles are attached with two nails into the barge board.

i. **Flashings:** Valley metal flashing is copper or minimum No. 28 gauge galvanized steel which shall extend at least 11 inches from the center line each way and is formed with a 1-inch-high splash diverter in the center and both longitudinal edges turned inward approximately 1/2 inch at 30-degree angle. Succeeding valley metal sections overlap a minimum of 4 inches and are attached with clips or nails bent over the edges without penetrating the metal. All exposed field or roof to wall flashing for Regal and Hacienda tiles is malleable corrosion-resistant metal. Standard galvanized iron flashings may be used with slate and shake tiles. Openings through the tile for vents, etc., are to be adequately weatherproofed in accordance with attached drawings and the code.

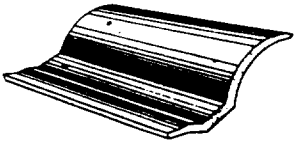
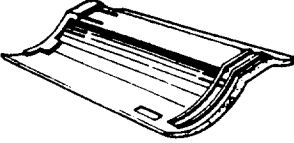
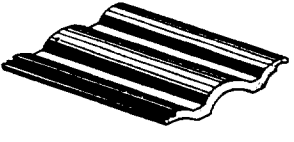
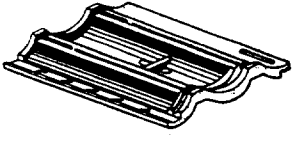
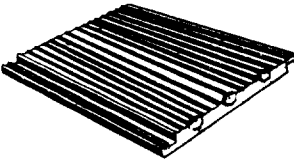
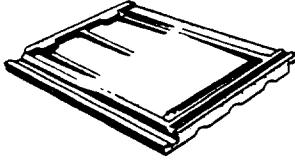
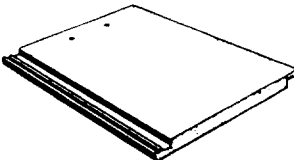
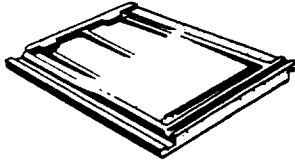
j. **Broken Tile Replacement:** If battens were used originally and tiles were not nailed, the broken tile is first removed and a new tile is inserted. If battens were not used, a 6-inch by 6-inch by 1/2-inch plywood piece is nailed to deck to act as a batten. If nails were used originally, they are cut to remove the broken tile. The replacement tile, coated with roofer's mastic on the top, is inserted in its place. The water course must be checked to ensure that the roofer's mastic does not restrict water flow.

k. **Special Environment Conditions:** In areas subject to snow, solid sheathing and underlayment as required in Table No. 32-D-2 of the code are initially applied. Nominal 1 by 4 wood strips are nailed vertically over rafters at 24-inch maximum spacing and nominal 1 by 4 wood strips hori-

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TABLE NO. I—FIELD TILE SPECIFICATIONS

STYLE	TOP	BOTTOM	LENGTH (Inches)	HEIGHT (Inches)	WIDTH (Inches)	INSTALLED WEIGHT	
						Lightweight (psf)	Regular Weight (psf)
REGAL			17 <sup>1</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>4</sub>	13 <sup>3</sup> / <sub>8</sub>	5.9 <sup>1</sup>	9.9
						6.4 <sup>2</sup>	
HACIENDA			17 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>16</sub>	13	5.9 <sup>3</sup>	9.1
						6.9 <sup>4</sup>	
SHAKE			17 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>4</sub>	13	7.3	9.9
SLATE			17 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>8</sub>	13	7.6 <sup>5</sup>	9.7

<sup>1</sup>Main body thickness = 11.5 mm - 11.75 mm.

<sup>2</sup>Main body thickness = 11.75 mm - 12 mm.

<sup>3</sup>Main body thickness = 11.5 mm - 12 mm.

<sup>4</sup>Main body thickness = 12.5 mm - 13 mm.

<sup>5</sup>Battens required for all slopes.

TABLE NO. II—INSTALLATION PROCEDURES FOR REGULAR-WEIGHT TILES  
MAXIMUM WIND VELOCITY UP TO 80 MPH ROOF HEIGHTS NOT EXCEEDING 40 FEET<sup>1,4</sup>

ROOF SLOPE	FIELD NAILING		NAILING FOR PERIMETER TILE AND TILE ON CANILEVERED AREAS <sup>3</sup>
	Spaced or Solid Sheathing With Battens	Solid Sheathing Without Battens <sup>2</sup>	
3:12 to and including 5:12	Not required	Every tile	Every tile
Above 5:12 to less than 12:12	Every tile every other row	Every tile	Every tile
12:12 and over	Every tile	Every tile	Every tile

<sup>1</sup>In areas designated by the building official as being subject to repeated wind velocities in excess of 80 mph or where roof height exceeds 40 feet above grade, all tiles shall be attached in accordance with Chapter 32 of the Uniform Building Code or as set forth below, whichever is more restrictive:

- (a) The heads of all tiles shall be nailed.
- (b) The noses of all eave course tiles shall be fastened with a special nail or clip.
- (c) All rake tiles shall be nailed with two nails.
- (d) The noses of all ridge, hip and rake tiles shall be set in a bead of approved roofers's mastic.

<sup>2</sup>For slopes 7:12 and above battens are required.

<sup>3</sup>Perimeter nailing areas include three tile courses but not less than 36 inches from either side of hips or ridges and edges of eaves and gable rakes. In special wind areas as designated by the building official, additional fastening may be required.

<sup>4</sup>Lightweight tiles must be installed in accordance with Table No. 32-D-2 of Chapter 32 of the Uniform Building Code and require a minimum of one fastener per tile, regardless of roof slope.

# Application Details

Battens required on roof pitches below 3:12 and above 7:12

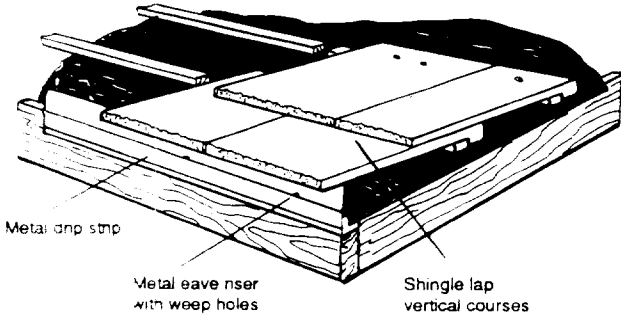


FIG. 7 INSTALLATION AT EAVES AND FIELD

FIG. 9 VALLEY FLASHING

NOTE: Do not nail through flashing. Where necessary, affix cut tile pieces to adjoining tiles with roofer's mastic

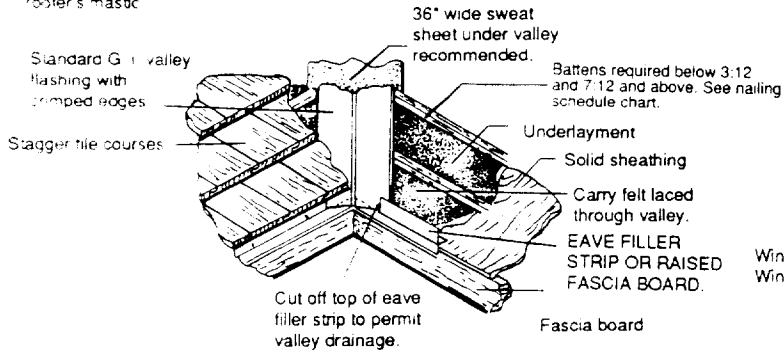


FIG. 8 TYPICAL RIDGE AND GABLE END

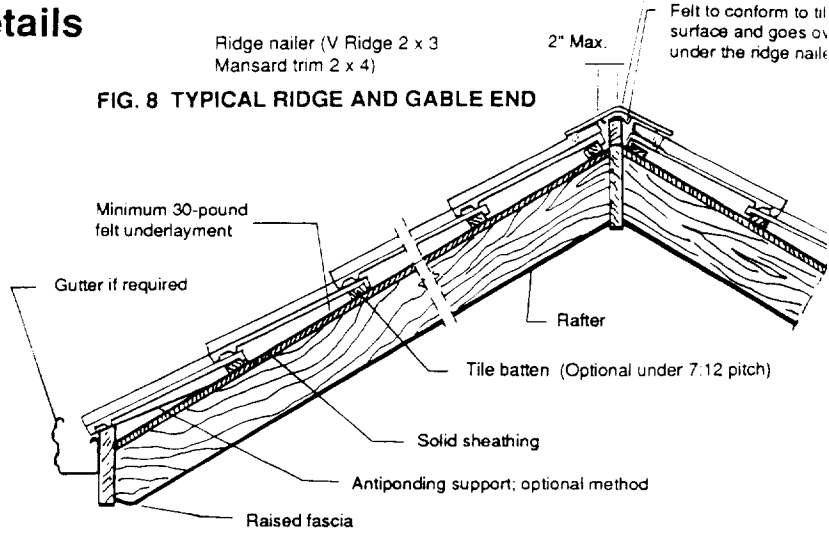


FIG. 10 TYPICAL HIP DETAILS

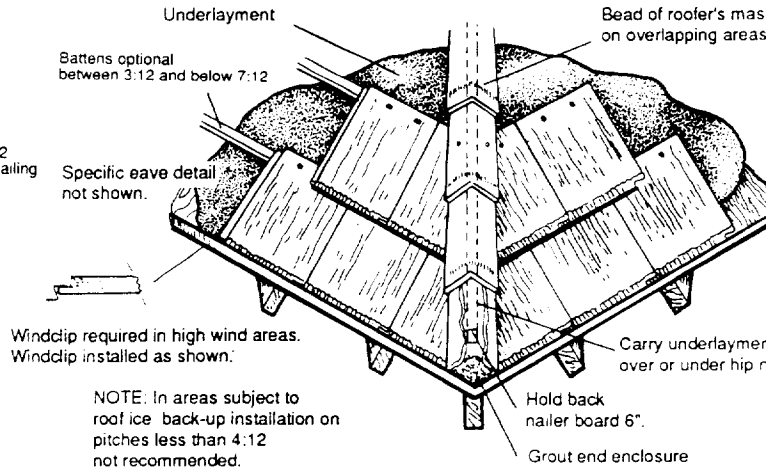
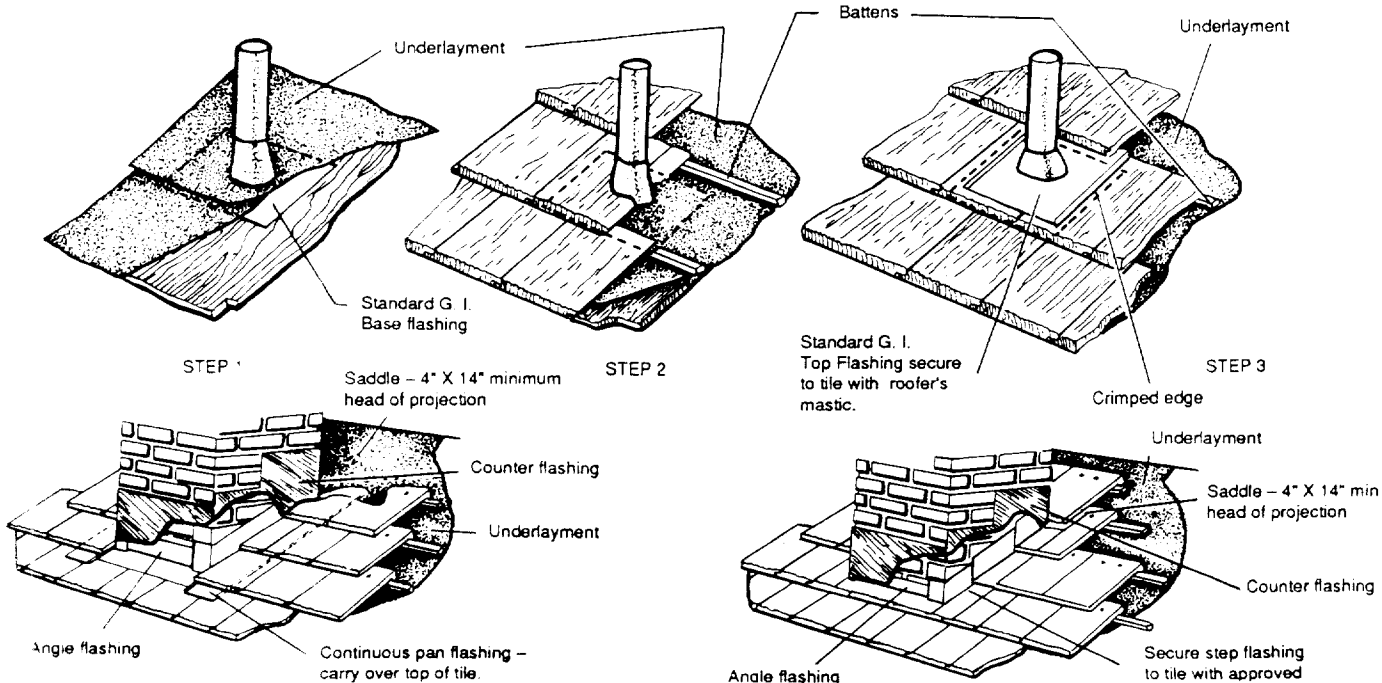


FIG. 11 VENT FLASHING



CONTRACT NO. 10070

Sold to: WILLIAMS  
 Address: 2441 13th St.  
 City: SACRAMENTO State: CA Zip: 95831  
 Customer:  New  Previous Source: McBELL  
 Home Phone: 477-8146 Bus. Phone: 327-8035  
 Construction Lender (if any): \_\_\_\_\_  
 Sold By: \_\_\_\_\_ License No.: \_\_\_\_\_  
 Thomas Map Book Page: \_\_\_\_\_

Deposit*	Amount	When Due	Date Paid	Check #	Initials	Financing
Pre Measure	<u>1000.00</u>	<u>KEY</u>				<input type="checkbox"/> Yes <input type="checkbox"/> No
Progress #1						
Progress #2	<u>7,000.00</u>	<u>KEY</u>				
Completer	<u>14,700.00</u>	<u>KEY</u>				Name _____
<input type="checkbox"/> Time & Materials						Credit Approval & Date _____

Estimated Job Start: 3 weeks Estimated Job Completion: 6 weeks  
**THIS CONTRACT IS "SUBJECT TO INSTALLERS PRE-MEASURE SURVEY."**  
**DOES NOT INCLUDE PAINTING OR STAINING UNLESS OTHERWISE SPECIFIED.**  
**CUSTOMER UNDERSTANDS ALL CUSTOM SIZED, STAINED, OR PAINT ITEMS ARE NOT RETURNABLE, NOR ARE THERE ANY REFUNDS.**

DESCRIPTION OF SERVICES TO BE PERFORMED AND MATERIALS AND EQUIPMENT TO BE USED OR INSTALLED  
 CONTRACTOR WILL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT TO CONSTRUCT IN A GOOD WORKMANLIKE MANNER

REMOVE EXISTING W/S ROOF AND CLEAN UP / Remove Antenna  
Install Counter battery system  
Install Mini Bui Starter  
Install Thermostat membrane  
Install all new flashing  
Re-seat all flashing  
Obtain and engineer report  
Install ridge vent system  
Install new valleys  
Install all trim and lead pipe starters  
Install gutter system including  
Install 2-1/2" diameter ventilation - includes fan  
Install new insulation 5" batts w/ fiberglass  
Apply all paint  
Install 1/2" thick 2x4 plastic gut - provide keys  
Install 2x4 counter battery

ADDENDUM  CHANGE ORDER

CAUTION ANY DRY ROT REPAIR OR ADDITIONAL SERVICES OTHER THAN AS DESCRIBED ABOVE WILL BE CHARGED AT THE RATE OF \$ <u>112</u> PER MAN HOUR PLUS ANY AND ALL MATERIALS AND SPECIAL EQUIPMENT I HEREBY ACKNOWLEDGE THAT I AM FAMILIAR WITH THE CONTENTS OF THIS AGREEMENT BOTH FRONT AND BACK, AND I HEREBY ACKNOWLEDGE RECEIPT OF A COPY OF THIS CONTRACT. NO FURTHER WORK OR MATERIAL IS PROMISED OR IMPLIED OTHER THAN AS OUTLINED ABOVE *Deposit shall not exceed \$1,000 or 10% of contract price, whichever is the lesser.	SUB TOTAL	<u>16500</u>	<u>00</u>
	SALES TAX	<u>none</u>	
	PERMIT	<u>none</u>	
	TOTAL	<u>16500</u>	<u>00</u>

**YOU, THE OWNER OR TENANT, HAVE THE RIGHT TO REQUIRE THE CONTRACTOR TO FURNISH YOU WITH PERFORMANCE AND PAYMENT BOND**