

CITY OF SACRAMENTO

Permit No: 9900730

1231 I Street, Sacramento, CA 95814

Insp Area: 2

Site Address: 10 HOLIDAY COVE CT SAC RES

Sub-Type:

Parcel No: 0300650032

Housing (Y/N): N

CONTRACTOR ZIMMERMAN ROOFING 3560 RAMONA AV SACRAMENTO CA 95826

OWNER WILLIAMS CARL B & JUNE K 10 HOLIDAY COVE CT SACRAMENTO CA 95831

ARCHITECT

Nature of Work: TEAR OFF & REROOF W/ LIGHT WEIGHT 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-39 License Number 557559 Date 1-26-99 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: _____ JAN 25 1999

Date _____ Owner Signature _____

IN ISSUING THIS BUILDING PERMIT, the applicant represents, and the city relies on the representation of the applicant that the applicant has 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 1-26-99 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.

X 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 COMP INS FUND Policy Number 713-98-2021 Exp Date 10/01/1999

(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 1-26-99 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.



DEPARTMENT OF
PLANNING AND DEVELOPMENT

CITY OF SACRAMENTO
CALIFORNIA

1231 I STREET
ROOM 200
SACRAMENTO, CA
95814-2998

Permit Service
916-264-7619
FAX 916-264-7096

*Mark Williams
10 Holiday Lane Ct.
Sacramento, CA*

95831

TILE ROOF WORKSHEET

This worksheet must be filled out whenever any type of tile roof is applied for.

If the answer to question #5 is yes, a written engineering report from a registered engineer must be provided with each application.

1. BRAND AND MODEL OF TILE Pioneer Shale tile
2. TILE WEIGHT PER SQUARE 730
3. WEIGHT OF ROOF SYSTEM PER SQUARE 180
4. TOTAL WEIGHT OF ROOF SYSTEM 910
5. DOES TOTAL WEIGHT OF ROOF SYSTEM EXCEED 750# PER SQUARE? YES NO
6. ROOF SLOPE 4/12

PLEASE PROVIDE A SEPARATE WORKSHEET FOR EACH APPLICATION INVOLVING A TILE ROOF.

All attached engine report

Williams

Paul Zacher – Structural Engineers
4701 Lakeside Way
Fair Oaks, CA 95628

TEL: 916.961.3960
FAX: 916.961.3960

January 6, 1999

Zimmerman Roofing
3560 Ramona Avenue
Sacramento, CA 95826
TEL: 916.454.3667
FAX: 916.455.3784
TEL (Jeff): 916.392.1971
FAX (Jeff): 916.392.6853
FAX (Framer) : 916.383.5308

Attn: Mr. Jeff Tucker,

re: Job 98334: WILLIAMS

Subject: Structural Investigation Report of the Roof for the Residence located at 10 Holiday Cove Court, Sacramento, CA 95831.

As requested by Mr. Jeff Tucker, this is a report to determine what needs should be addressed to correct any structural deficiencies of the roof. Paul Zacher visited the site January 5, 1999. 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 1970's vintage.
Occupancy: Residential.
No. of Stories: One.
Dimensions: Approximately 2000 square feet with a first story plate height of 8 feet.

ISSUED

JAN 26 1999

CITY OF SACRAMENTO
PERMIT SERVICES DIV

CONSTRUCTION:

Roof:

The roof covering will consist of Pioneer Light Weight Concrete Tile over 1/2" solid sheathing. The living area is conventionally framed with 2x6 rafters spaced at 24" on center with 2x6 purlins supported at no more than 6'-0" on center by 2x4 struts bearing on walls below except for the vaulted ceiling areas. The vaulted ceiling is constructed of 2x6 rafters spaced at 24" on center supported mid-span and at the ridge by a 6x beam. The garage area is framed with 2x6 rafters spaced at 24" on center and 2x8 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.

1/7

Williams

Paul Zacher – Structural Engineers
4701 Lakeside Way
Fair Oaks, CA 95628

TEL: 916.961.3960
FAX: 916.961.3960

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 2x8 DF#2 x 8'-0" long purlin to the existing 2x6 purlin which spans 8'-0". Attach it with 16d's @ 3" on center. Support the 2x8 to the bearing walls below with 2x4 struts. See details 1 and 2.
2. Scab a 2x10 DF#2 x 10'-0" long purlin to the existing 2x6 purlin which spans 10'-0". Attach it with 16d's @ 3" on center. Support the 2x8 to the bearing walls below with 2x4 struts. See details 1 and 2.

Garage:

3. Scab a 1 3/4" x 18" microlam beam to the existing 2x6 crossie and nail together with 16d's @ 12" oc. The support at the walls shall be a 2x12 x 4'-0" long ledger attached to each stud with 8-16d's. See details 1 and 3.

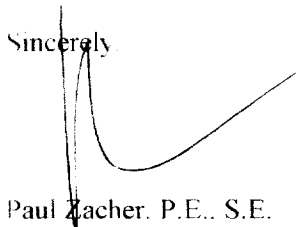
It shall be noted that small hairline cracking may occur at exterior stucco and interior gypboard finished walls which are load bearing or distributing roof strut loads. These cracks are a natural occurrence as the existing structure re-distributes the new roof weight. They are cosmetic in nature and are not an indication of a structural hazard or failure.

It shall be noted that some deflection of the rafters may be evident after installation of the tile. The existing roof framing has deflected but this may not be readily evident due to the uneven nature of the existing roofing material. Concrete tile is a very consistent and uniform product and when installed in an even plane, even small deflections can become apparent. This is only a cosmetic issue and not a structural concern.

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

DESIGN LOADING:

Roof Pitch	4	in 12
Pitch Adjustment Factor	1.05	

LOCATION: ROOF

<u>MATERIAL</u>		<u>WEIGHT</u>	
Pioneer Light Weight	7.00	psf	
Roofing felt	0.30	psf	
1x4 skip sht'g	1.09	psf	
1/2" OSB/ plywood	1.50	psf	
2x6 rafters @ 24" oc	1.00	psf	
	Load	10.9	psf
	Roof Pitch Adjustment	0.59	psf
	Total Load	11.5	psf

LOCATION: VAULT

<u>MATERIAL</u>		<u>WEIGHT</u>	
Pioneer Light Weight	7.00	psf	
Roofing felt	0.30	psf	
1/2" OSB/ plywood	1.50	psf	
1x4 skip sht'g	1.09	psf	
2x6 rafters @ 24" oc	1.00	psf	
Batt/blown insul	0.50	psf	
1/2" Gypboard	2.50	psf	
	Load	13.9	psf
	Roof Pitch Adjustment	0.75	psf
	Total Load	14.6	psf

Title :
 Dsgnr:
 Description :

Date:
 Job #

Scope :

Rev. 510001

Timber Beam & Joist

Page 1

Description RAFTERS AND BEAMS

Timber Member Information

Timber Section		2x6	2x6 vault	2x8 purlin	2x10 purlin	6x14	microlam
Beam Width	in	1.500	1.500	1.500	1.500	5.500	1.750
Beam Depth	in	5.500	5.500	7.250	9.250	13.500	18.000
Le. Unbraced Length	ft	0.00	0.00	2.00	0.00	0.00	0.00
Timber Grade		Douglas Fir - Larch	Douglas Fir - Larch	Douglas Fir - Larch	Douglas Fir - Larch	Douglas Fir - Larch	Truss Joist - MacMil
Fb - Basic Allow	psi	875.0	875.0	875.0	875.0	1,350.0	2,600.0
Fv - Basic Allow	psi	95.0	95.0	95.0	95.0	85.0	285.0
Elastic Modulus	ksi	1,600.0	1,600.0	1,600.0	1,600.0	1,600.0	1,800.0
Load Duration Factor		1.250	1.250	1.250	1.250	1.250	1.250
Member Type		Sawn	Sawn	Sawn	Sawn	Sawn	
Repetitive Status		Repetitive	Repetitive	No	No	No	No

Center Span Data

	ft	12.00	10.50	8.00	10.00	21.00	25.00
Span							
Dead Load	#/ft	23.00	29.20	69.00	69.00	190.00	115.00
Live Load	#/ft	32.00	32.00	96.00	96.00	208.00	160.00

Results	Ratio =	0.9607	0.8185	0.9387	0.9617	0.9462	0.8394
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Mmax @ Center	in-k	11.88	10.12	15.84	24.75	263.28	257.81
@ X =	ft	6.00	5.25	4.00	5.00	10.50	12.50
Fb - Actual	psi	1,570.9	1,338.3	1,205.4	1,157.0	1,575.9	2,728.2
Fb - Allowable	psi	1,635.2	1,635.2	1,284.2	1,203.1	1,665.6	3,250.0
		Bending OK	Bending OK	Bending OK	Bending OK	Bending OK	Bending OK
Fv - Actual	psi	55.7	53.7	77.9	75.6	75.6	144.0
Fv - Allowable	psi	118.8	118.8	118.8	118.8	106.3	356.3
		Shear OK	Shear OK	Shear OK	Shear OK	Shear OK	Shear OK

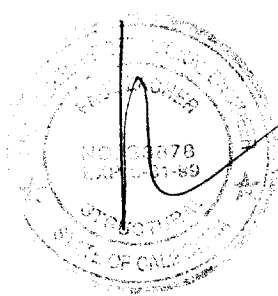
Reactions

@ Left End DL	lbs	138.00	153.30	276.00	345.00	1,995.00	1,437.50
LL	lbs	192.00	168.00	384.00	480.00	2,184.00	2,000.00
Max. DL+LL	lbs	330.00	321.30	660.00	825.00	4,179.00	3,437.50
@ Right End DL	lbs	138.00	153.30	276.00	345.00	1,995.00	1,437.50
LL	lbs	192.00	168.00	384.00	480.00	2,184.00	2,000.00
Max. DL+LL	lbs	330.00	321.30	660.00	825.00	4,179.00	3,437.50

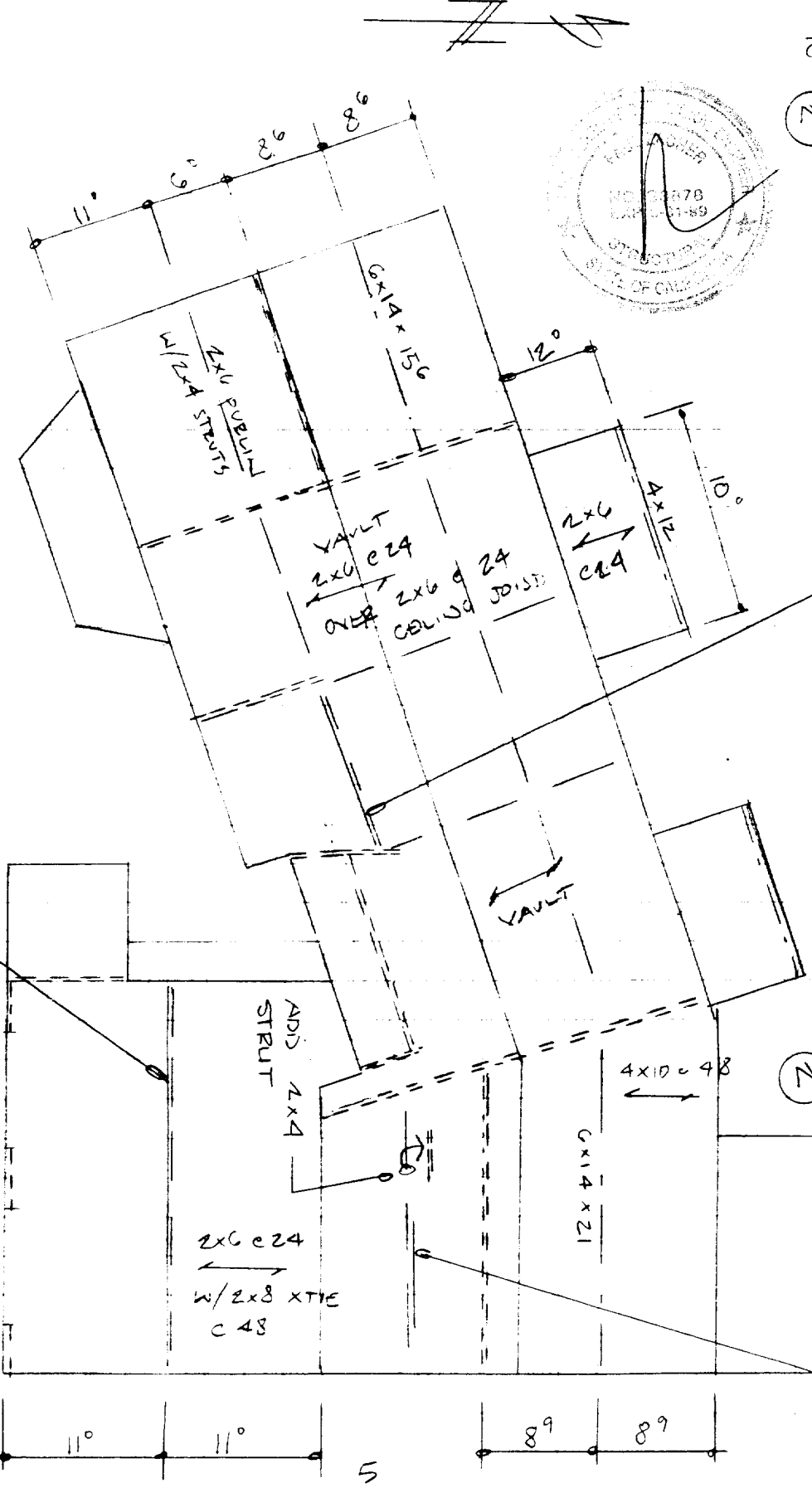
Deflections

Center DL Defl	in	-0.322	-0.240	-0.083	-0.098	-0.461	-0.660
L/Defl Ratio		446.5	525.0	1,150.6	1,223.5	546.9	454.4
Center LL Defl	in	-0.449	-0.263	-0.116	-0.136	-0.504	-0.919
L/Defl Ratio		320.9	479.1	827.0	879.4	499.6	326.6
Center Total Defl	in	-0.771	-0.503	-0.200	-0.235	-0.965	-1.579
Location	ft	6.000	5.250	4.000	5.000	10.500	12.500
L/Defl Ratio		186.7	250.5	481.2	511.7	261.1	190.0

SCAB 2x10 x10° TO EXISTING
2x6 PURUN WHICH SPANS
10°



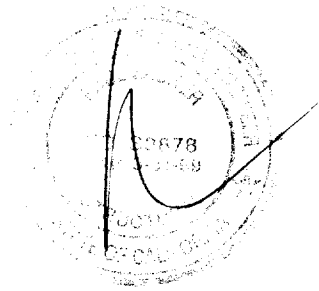
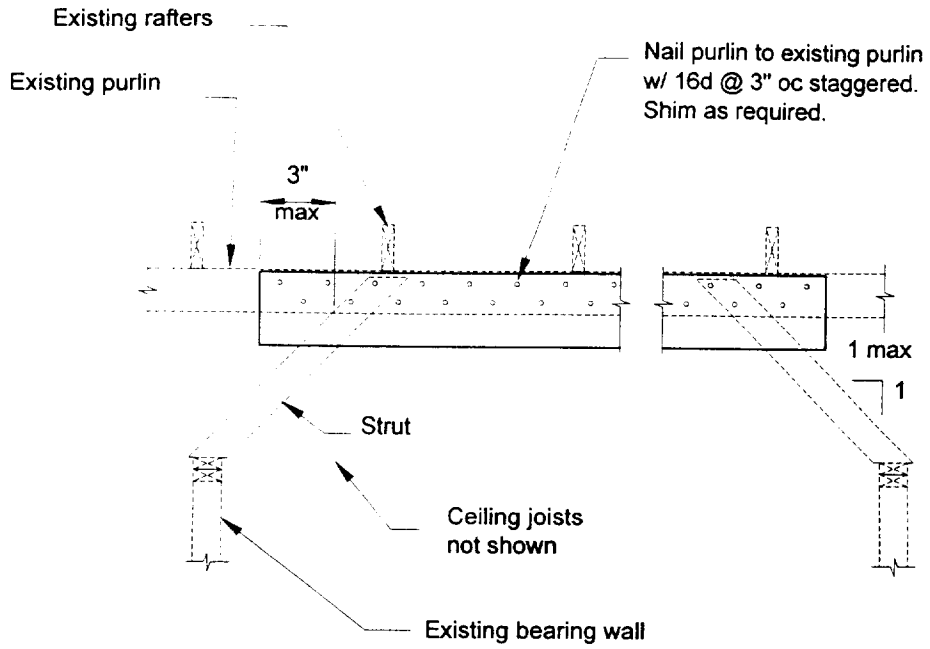
SCAB 2x8 x8° PURUN TO EXISTING
2x6 PURUN WHICH SPANS 8°



SCAB 1 3/4 x 18 ML TO EXISTING 2x6 PURUN,
SUPPORT ML C ENDS W/ 2x12 x 4° LEDGER
ATTACHED TO EACH STUD W/ 8-16d's

① ROOF PLAN - WILLIAMS
NTS

③ SIMILAR

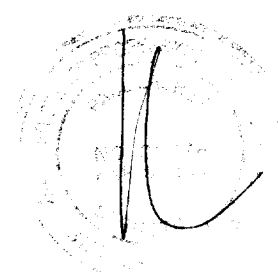
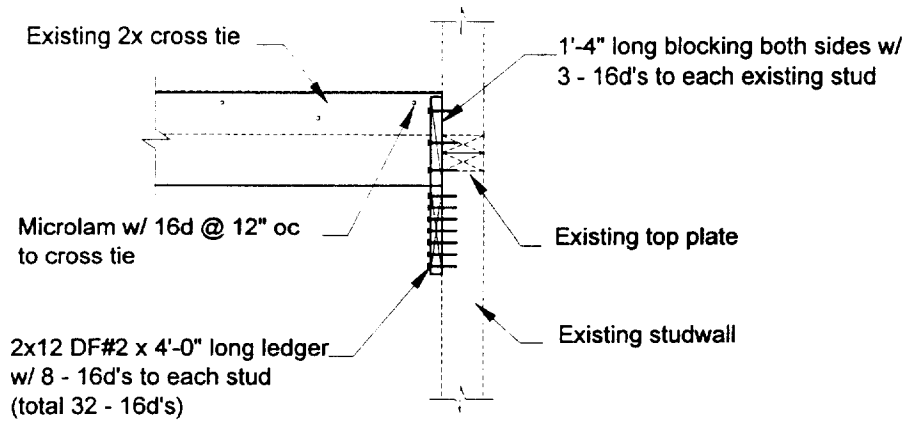


2

PURLIN DETAIL

scale: 1/2" = 1'-0"

6



3

LEDGER CONNECTION

scale: 1/2" = 1'-0"