

CITY OF SACRAMENTO

Permit No: 9806287

1231 I Street, Sacramento, CA 95814

Insp Area: 2

Site Address: 2960 19TH ST SAC

Sub-Type: ASFR

Parcel No: 0120223013

Housing (Y/N): N

CONTRACTOR

KILLINGSWORTH CONST
1848 MARKHAM WY
SACRAMENTO CA 95818

OWNER

BARNES DOROTHY V
2960 19TH ST
SACRAMENTO CA 95818

ARCHITECT

Nature of Work: 350 SQ FT ADDITION

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 337327 Date 17 AUG 98 Contractor Signature Michael R. Kufner

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 hereby authorize representative(s) of this city to enter upon the abovementioned property for inspection purposes.

Date 17 AUG 98 Applicant/Agent Signature Michael R. Kufner

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 FUND Policy Number 7-99 1518883-98

____ (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 17 AUG 98 Applicant Signature Michael R. Kufner

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.

BAYLMS ROS
 2960 19th ST
 SACRTO
 KILLINGS W ORTN

DESIGN 1994 UPL

LOADS

ROOF	Comp	3.0
	1/2 PD	1.5
	FRMG	2.0
	INSUL	1.0
	1/2 GYP	2.5
		<hr/>
DL		= 10.0 #/sq
LL		= 20.0 #/sq

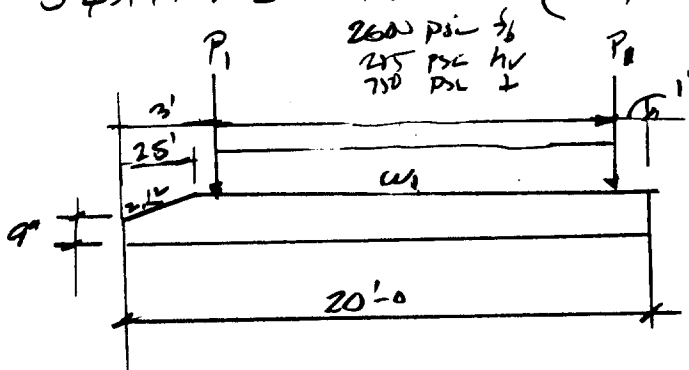


2ND FLOOR

	CORNER	1.5
	3/4 PW	2.0
11 1/2' TOR	2x 10 @ 16	2.5
	5/8 GYP	3.5
		<hr/>
DL		= 9.5 #/sq USE 10 #/sq
LL		= 40 #/sq

BEAM 1

5/4 x 14 LVL 1.9 E (I = 400 w₁ = 7.1 #/LF) PER 1 3/4 LAM



$$P_2 = 4(10+20) \times \frac{15}{2} = 675 + 1350$$

$$w_{wall} = \frac{1}{2} \times 8 \times 10 = 600$$

$$\frac{1275 + 1350}{}$$

$$w_1 = \frac{15}{2}(10+40) = 75 + 300$$

$$\frac{375}{}$$

GENERAL TIMBER BEAM DESIGN

BEAM 1

BEAM DATA				SPAN DATA			
Timber Section	: 2X14	End Fixity	: Pin:Pin	Center Span	=	20.00 ft	
Beam Width	= 5.250 in	Elastic Modulus	= 1900000 psi	Left Cantilever	=	0.00 ft	
Beam Depth	= 14.00 in	Beam Density	= 40.0 pcf	Right Cantilever	=	0.00 ft	
Lamination Thickness	= 0.00 in	Load Duration Factor	= 1.00	UNBRACED LENGTHS			
Fb - Bending	= 2600 psi	Beam Wt. is Added to Loads		Le : Center Span	=	0.00 ft	
Fv - Shear	= 285 psi	End Shear Calc'd at Support		Le : Left Cant.	=	0.00 ft	
Fc - Bearing	= 750 psi			Le : Right Cant.	=	0.00 ft	

APPLIED LOADS

Trapezoidal Load: DL: 155.0plf @ lft, 155.0plf @ rt LL: 300.0plf @ lft, 300.0plf @ rt from 3.00 ft to 19.00 ft
 Point Load: DL = 1275.0 # LL = 1350.0 # at 3.00 ft
 Point Load: DL = 1275.0 # LL = 1350.0 # at 19.00 ft

SUMMARY

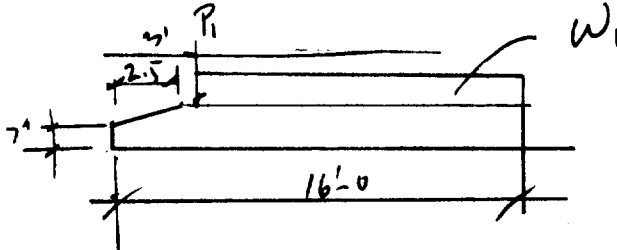
USING 5.250 x 14.000 Beam, Bending = 76.42%, Shear = 50.81%							
Max. Pos Mom @ 9.60 ft	= 27.91 k-ft	Shear: Max. @ Left	= 5.84 k	Reactions...	DL	Maximum	
Max. Neg Mom @ 20.00 ft	= 0.00 k-ft	....used for dsgn	= 8.76 k	Left	= 2.47 k	5.84 k	
Max @ Left	= 0.00 k-ft	....Area Req'd	= 30.75 in2	Right	= 2.97 k	7.10 k	
Max @ Right	= 0.00 k-ft	Max. @ Right	= 7.10 k	Deflections...			
Max. Allow Moment	= 36.53 k-ft	....used for dsgn	= 10.64 k	Center	= -0.36 in	-0.90 in	
fb : Max. Actual	= 1953.1 psi	....Area Req'd	= 37.35 in2	....Dist	= 9.84 ft	9.920 ft	
Fb : Allowable	= 2555.8 psi	fv : Max. Actual	= 144.81 psi	...L/Defl	= 673	266	
		Fv : Allowable	= 285.0 psi	Left	= 0.00 in	0.000 in	
Ck = .811(E/Fb) ^{.5}	= 21.92	Bearing Req'd @ Left	= 1.48 in	...L/Defl	= 0	0	
Cs = (LeD/B ²) ^{.5}	= 0.00	Bearing Req'd @ Right	= 1.80 in	Right	= 0.00 in	0.000 in	
Cv per UBC 2312.4.5	= 0.98			...L/Defl	= 0	0	

BEAM 2

3 1/2 x 12 LVL

1.9E

244 in⁴/LN 6.0 #/LN



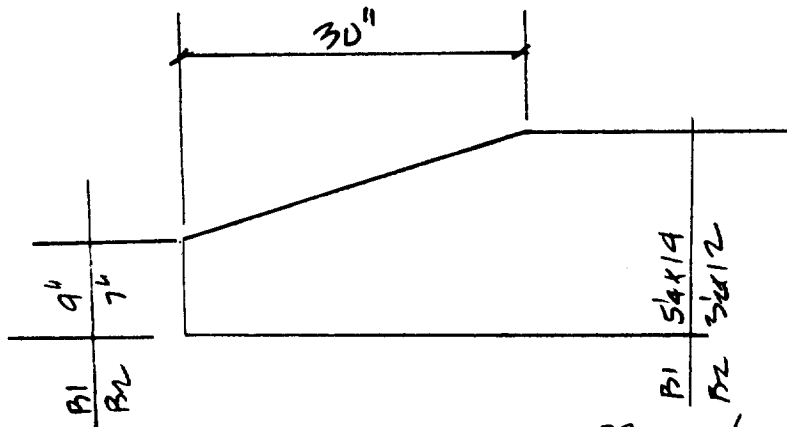
$$P_1 = (8+1)(10+20) \frac{10}{2} = 450 + 900$$

$$\text{wall } 8 \times 14 = \frac{80}{630 + 900}$$

$$W_1 = \frac{10}{2}(10+40) = 50 + 200$$

$$\text{wall } \frac{80}{130 + 200}$$

CHECK SLOPED TOP BEVEL



BM1

$$V_1 = \frac{2}{3} \times 285 \times 5.25 \left(14 - \left(\frac{14-9}{9} \right) (30-7.5) \right) = 13965 \text{ VS } 5840^*$$

$$OK \frac{2}{3} \times 285 \times 9 \times 5.25 = 8977^* \text{ VS } 5840 \text{ OK } \text{LOK W/PBEVEL}$$

BM2

$$V_2 = \frac{2}{3} \times 285 \times 3.5 \left(12 - \left(\frac{12-7}{7} \right) (26.5) \right) = 7980^* \text{ VS } 3,000^*$$

$$OK \frac{2}{3} (285) \times 7 \times 3.5 = 4655^* \text{ VS } 3000^*$$

GENERAL TIMBER BEAM DESIGN

BEAM 2

BEAM DATA				SPAN DATA			
Timber Section	: 2X14	End Fixity	: Pin:Pin	Center Span	=	16.00 ft	
Beam Width	= 3.500 in	Elastic Modulus	= 1900000 psi	Left Cantilever	=	0.00 ft	
Beam Depth	= 12.00 in	Beam Density	= 40.0 pcf	Right Cantilever	=	0.00 ft	
Lamination Thickness	= 0.00 in	Load Duration Factor	= 1.00	UNBRACED LENGTHS			
Fb - Bending	= 2600 psi	Beam Wt. is Added to Loads		Le : Center Span	=	0.00 ft	
Fv - Shear	= 285 psi	End Shear Calc'd at Support		Le : Left Cant.	=	0.00 ft	
Fc - Bearing	= 750 psi			Le : Right Cant.	=	0.00 ft	

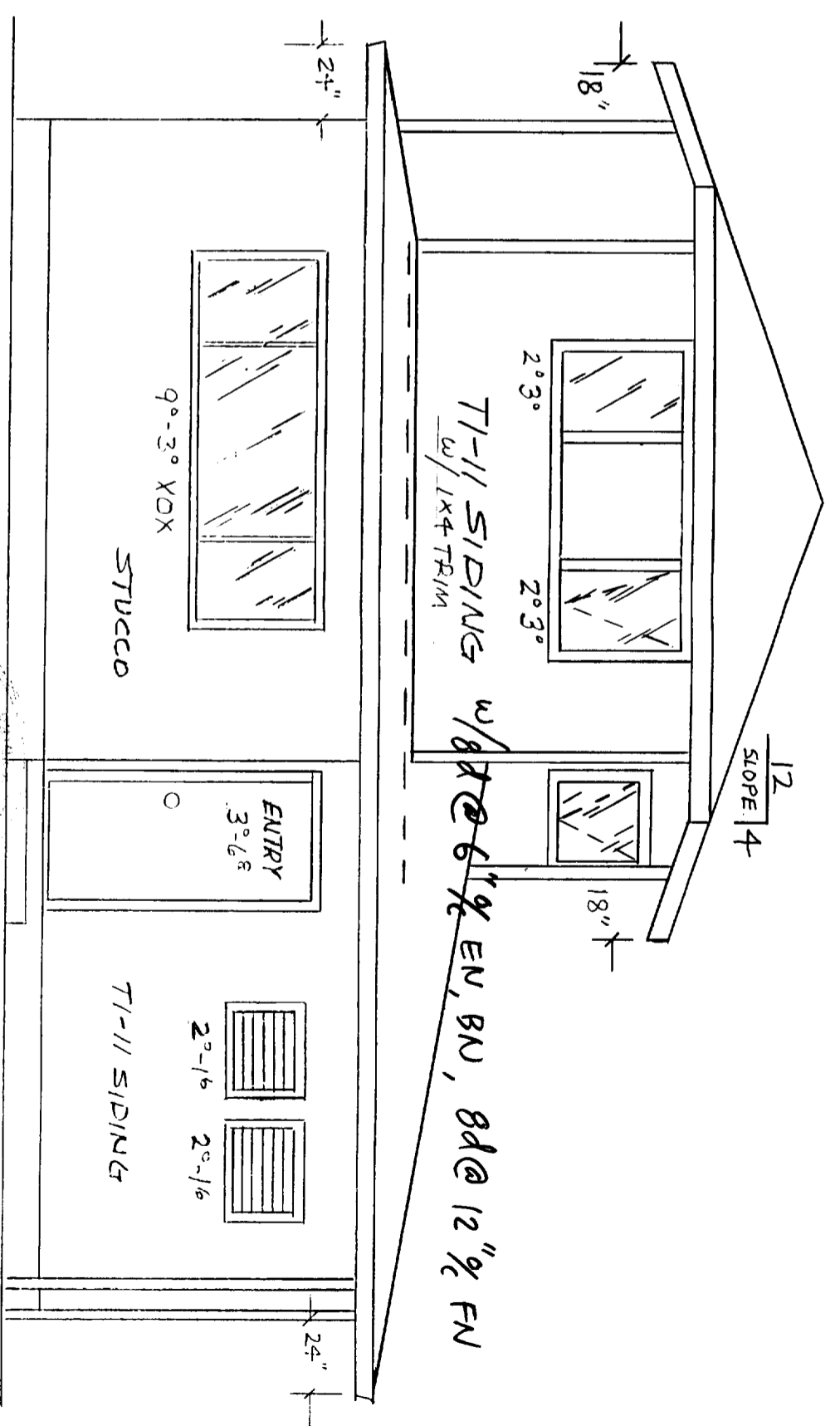
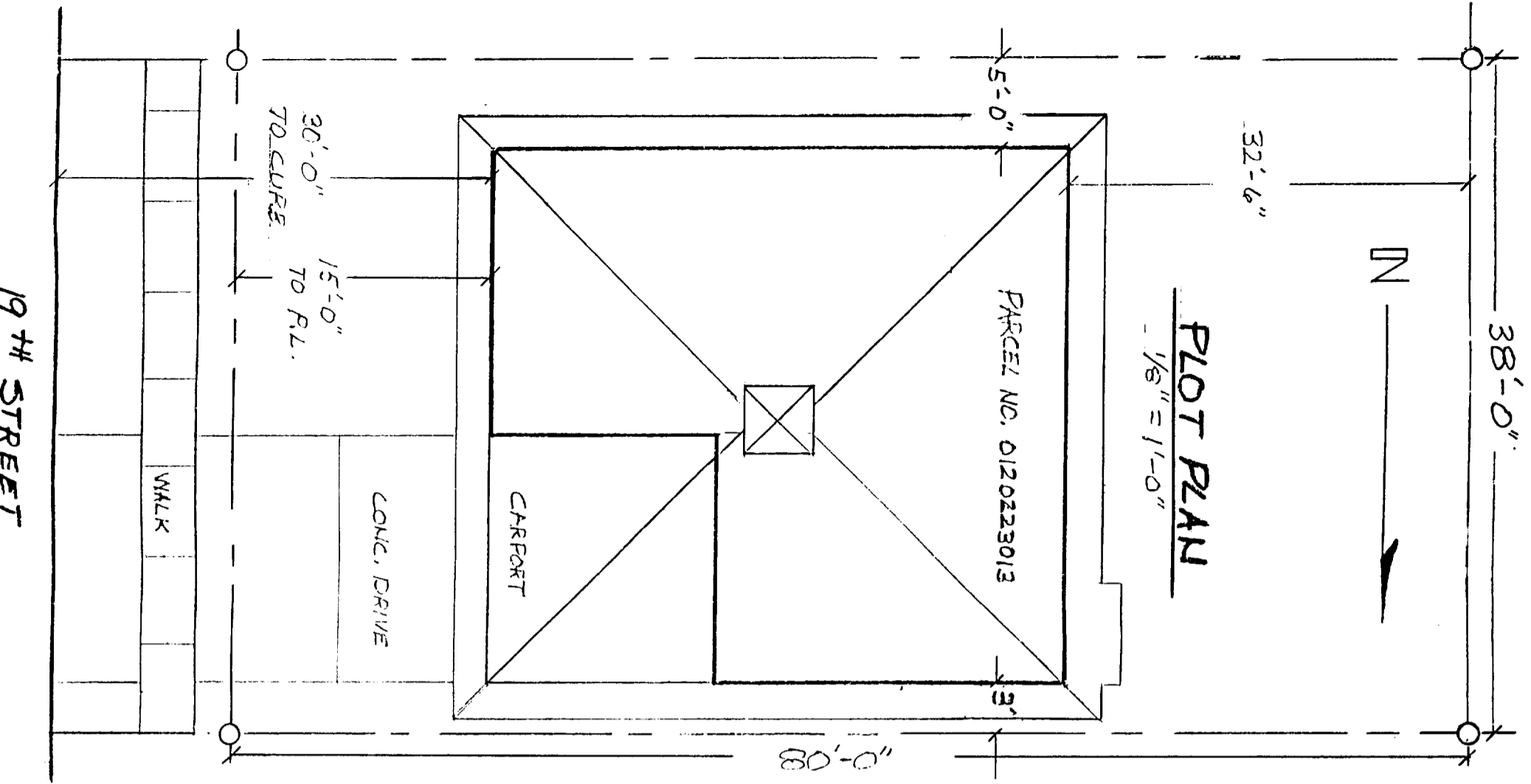
APPLIED LOADS

Trapezoidal Load: DL = 130.0plf @ lft, 130.0plf @ rt LL: 200.0plf @ lft, 200.0plf @ rt from 3.00 ft to 16.00 ft
 Point Load: DL = 530.0 # LL = 900.0 # at 3.00 ft

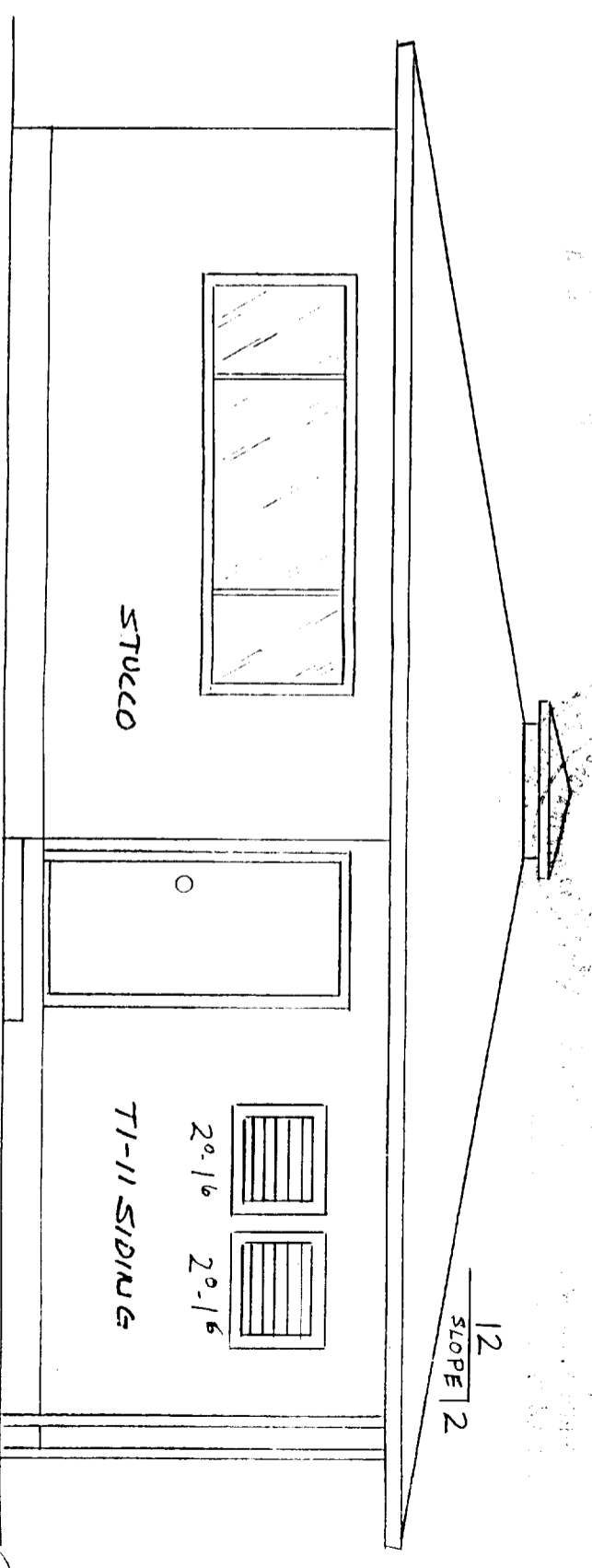
SUMMARY

USING 3.500 x 12.000 Beam, Bending = 61.84%, Shear = 37.57%

Max. Pos Mom @ 7.49 ft	= 12.38 k-ft	Shear: Max. @ Left	= 3.00 k	Reactions...		DL	Maximum
Max. Neg Mom @ 16.00 ft	= -0.00 k-ft	....used for dsgn =	4.50 k	Left	=	1.21 k	3.00 k
Max @ Left	= 0.00 k-ft	....Area Req'd =	15.78 in ²	Right	=	1.20 k	2.91 k
Max @ Right	= 0.00 k-ft	Max. @ Right =	2.91 k	Deflections...			
Max. Allow Moment	= 20.02 k-ft	....used for dsgn =	4.36 k	Center	=	-0.25 in	-0.60 in
fb : Max. Actual	= 1768.7 psi	....Area Req'd =	15.31 in ²	...Dist	=	7.87 ft	7.872 ft
Fb : Allowable	= 2860.0 psi	fv : Max. Actual	= 107.07 psi	...L/Defl	=	782	319
		Fv : Allowable	= 285.0 psi	Left	=	0.00 in	0.000 in
Ck = .811(E/Fb) ^{.5}	= 21.92	Bearing Req'd @ Left	= 1.14 in	...L/Defl	=	0	0
Cs = (LeD/B ²) ^{.5}	= 0.00	Bearing Req'd @ Right	= 1.11 in	Right	=	0.00 in	0.000 in
Cv per UBC 2312.4.5	= 1.10			...L/Defl	=	0	0



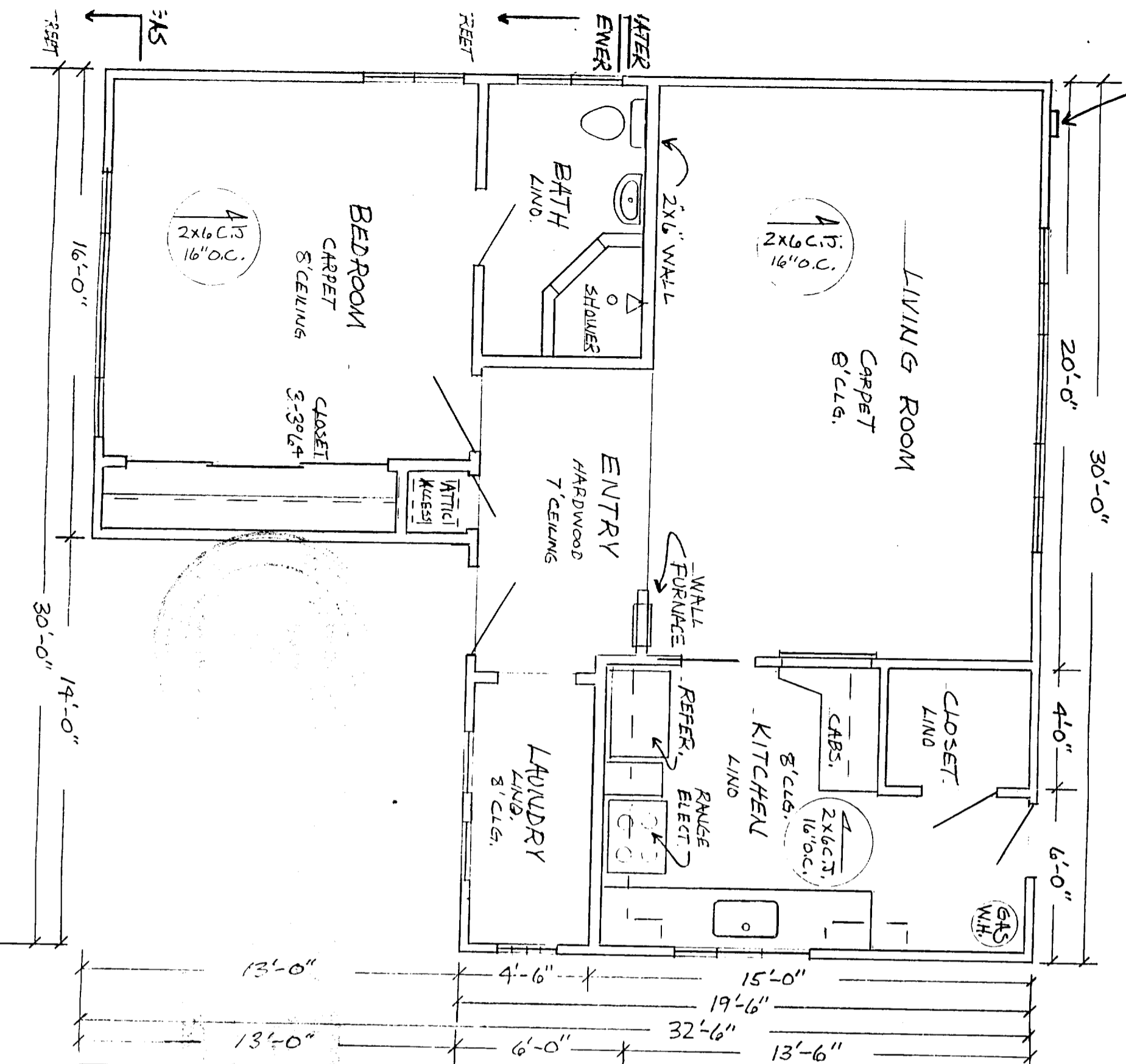
FRONT ELEV. (NEW) 1/4" = 1'-0"



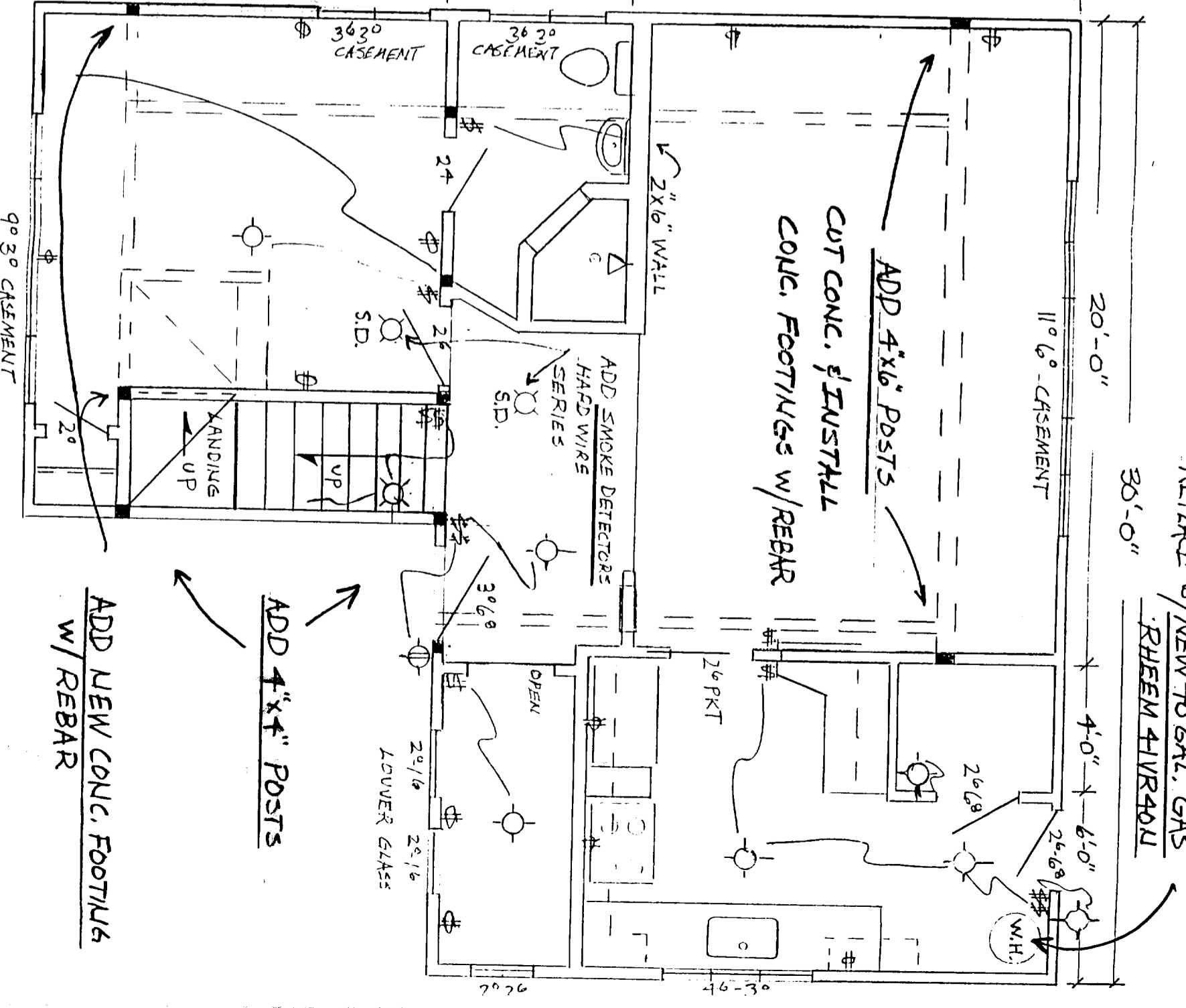
FRONT ELEV. (EXISTING) 1/4" = 1'-0"

John Tang

ELECTRIC
MAIN PANEL

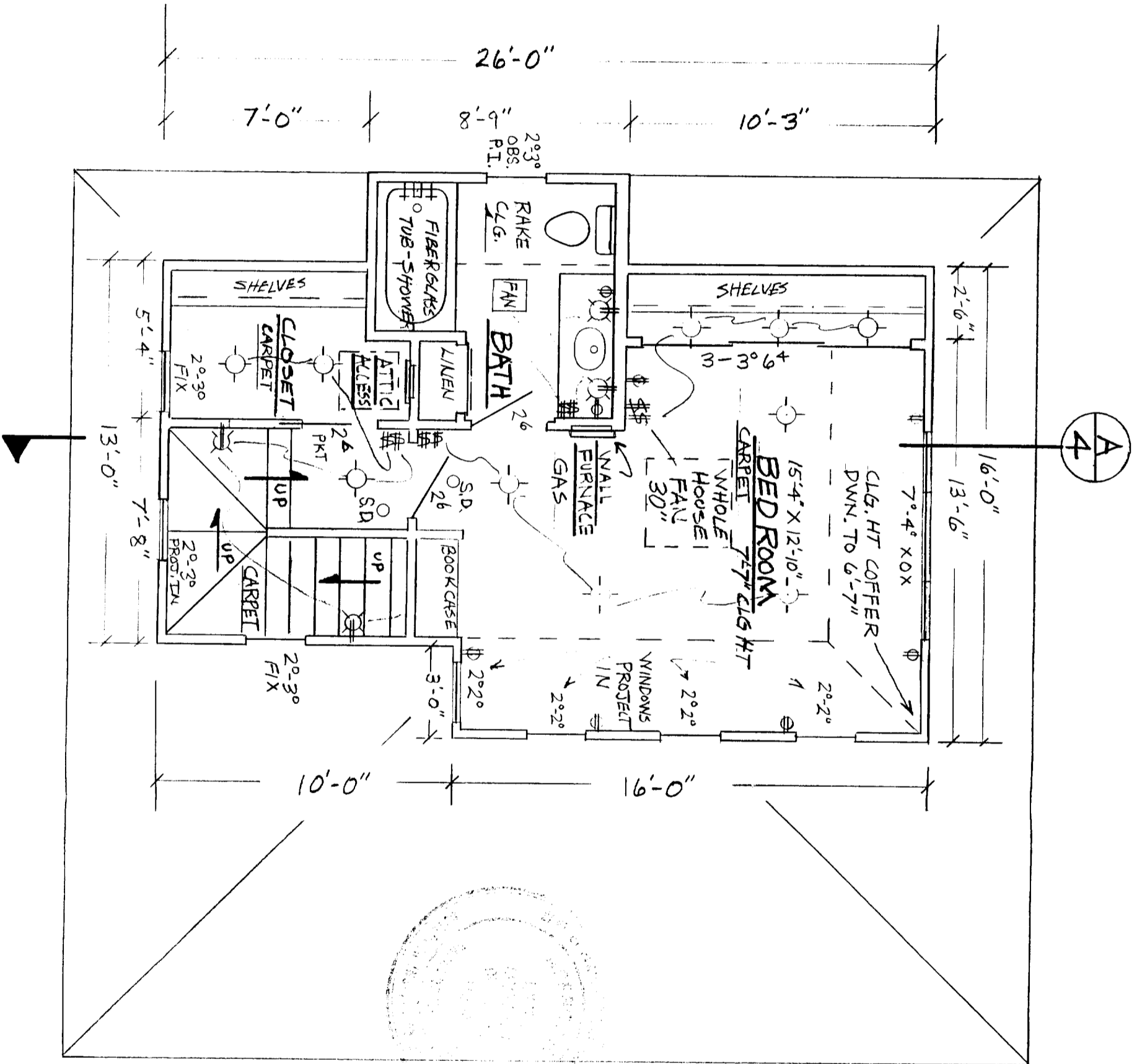


FLOOR PLAN (EXISTING) 1/4" = 1'-0"



EXISTING 30 GAL. GAS W.H.
REPLACE w/ NEW 40 GAL. GAS
RHEEM 41VR40U

FLOOR PLAN (NEW) 1/4" = 1'-0"

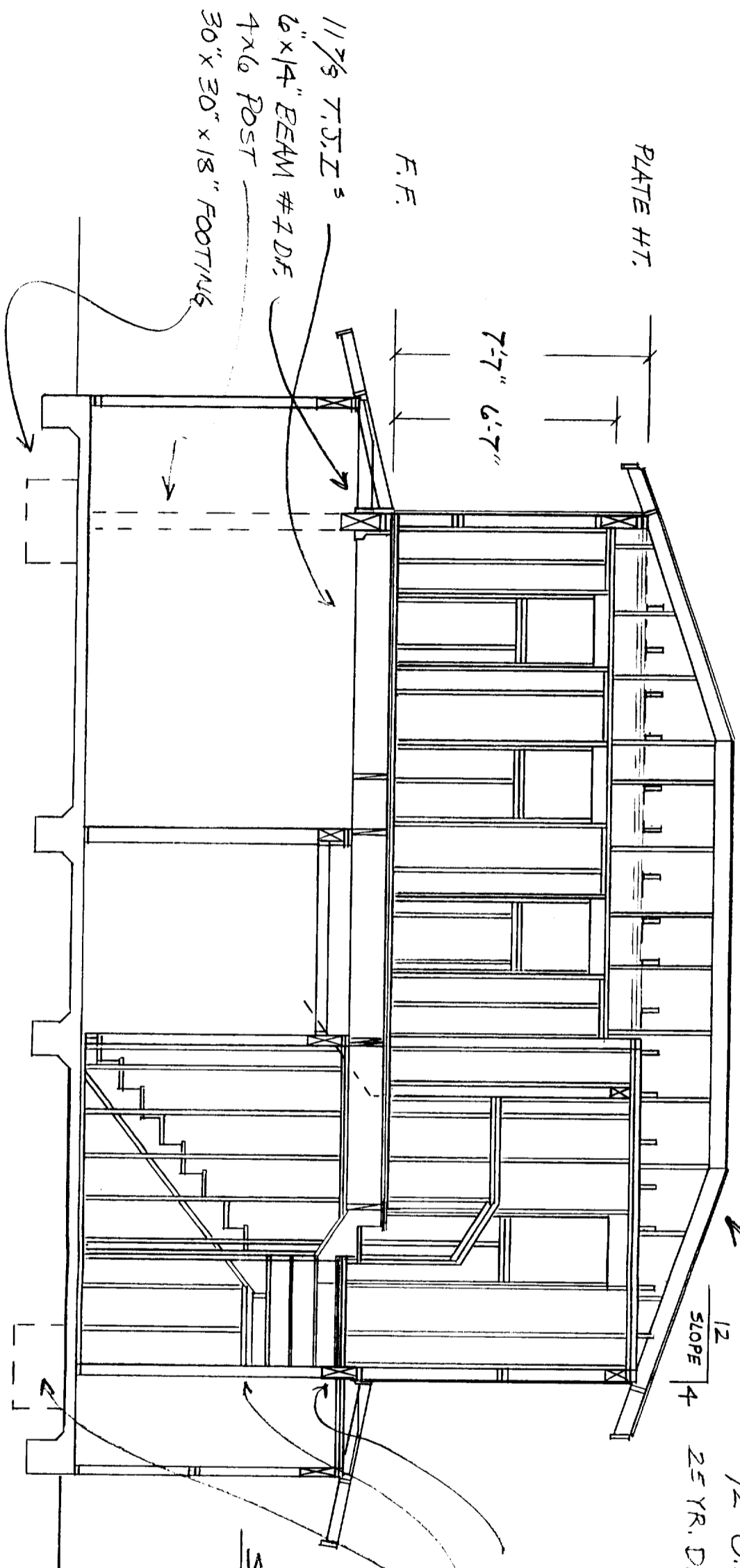


FLOOR PLAN (2ND FL.) NEW ADDITION
 1/4" = 1'-0" SCALE

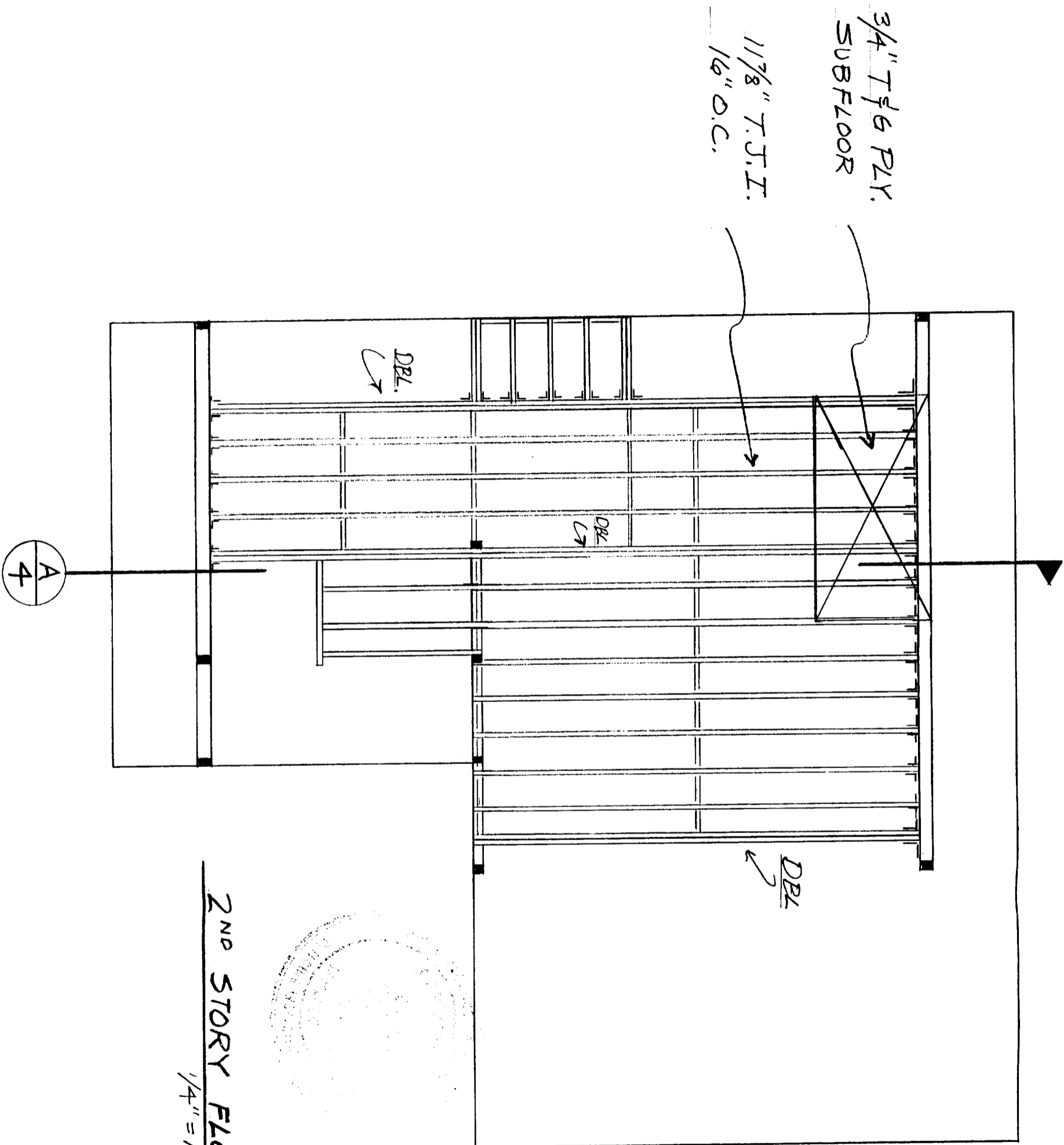
TOP plate splice connection
 w/ 12-16d common nails w/ 4'-0" min. Lap length

2x6 C.J. 16" O.C.
 2x6 RAFTERS 24" O.C.
 2x8 RIDGE & HIPS
 2x5 FASCIA BD.

1/2" O.S.B. SHEATHING w/ 6 @ 6" EN, 8 @ 12" EN, 8 @ 12" EN, 25 YR. DIMENSIONAL COMP.

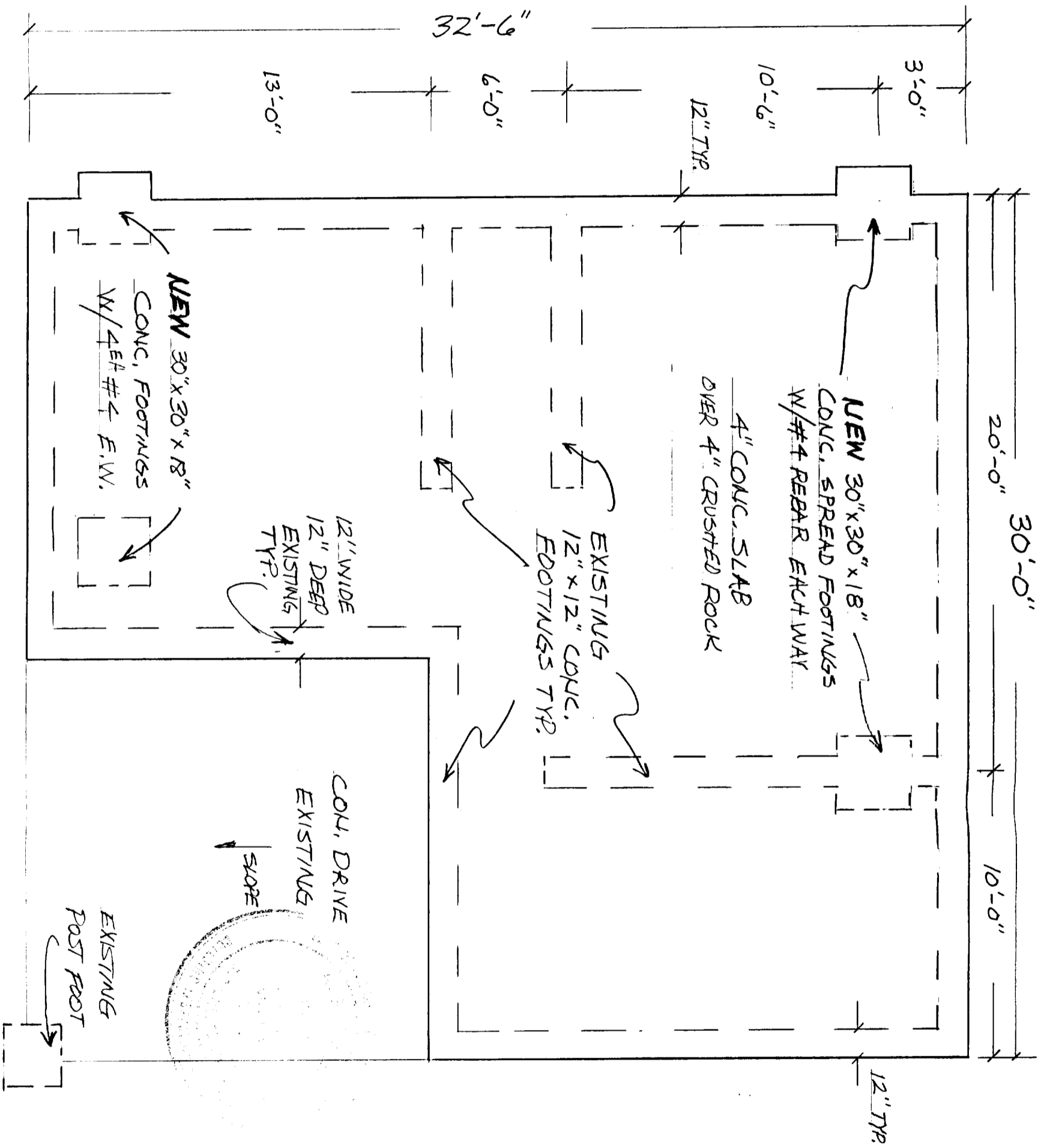


A
 4 SECTION 1/4" = 1'-0" SCALE



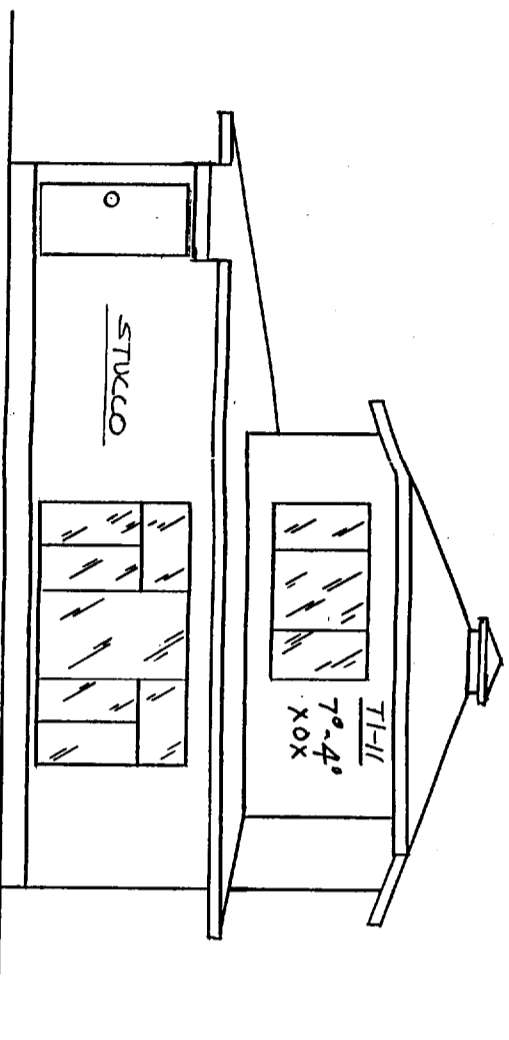
2ND STORY FLOOR JOIST PLAN
 1/4" = 1'-0" SCALE

A
4

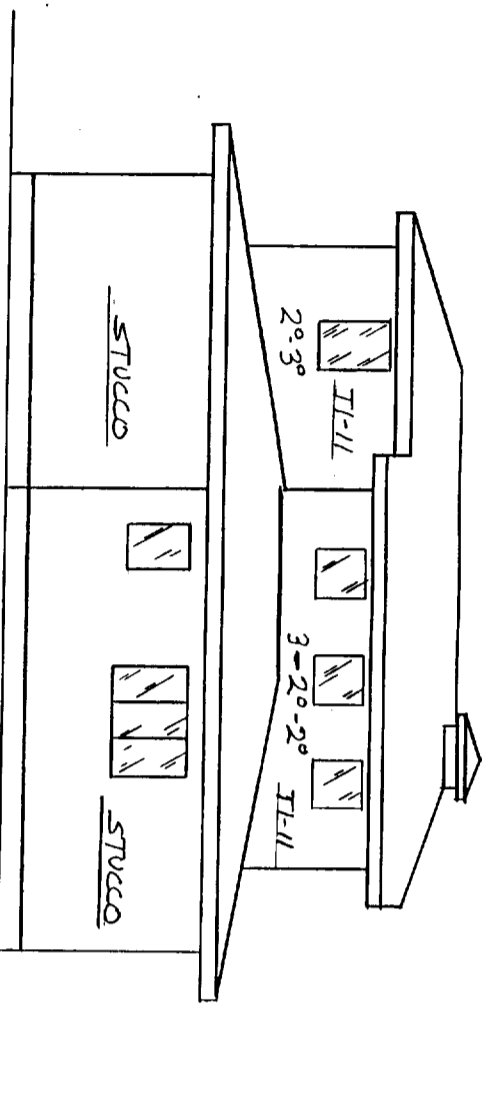


FOUNDATION PLAN

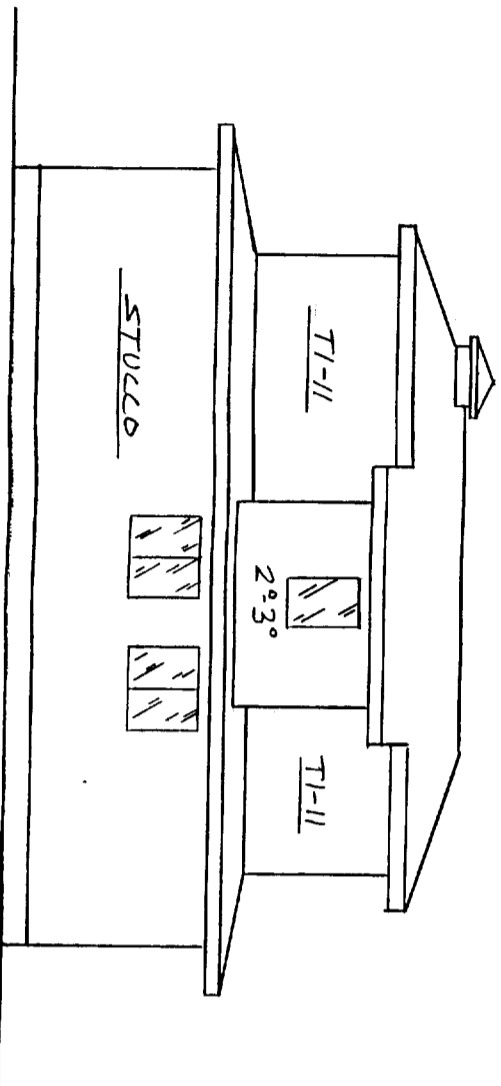
SCALE 1/4" = 1'-0"



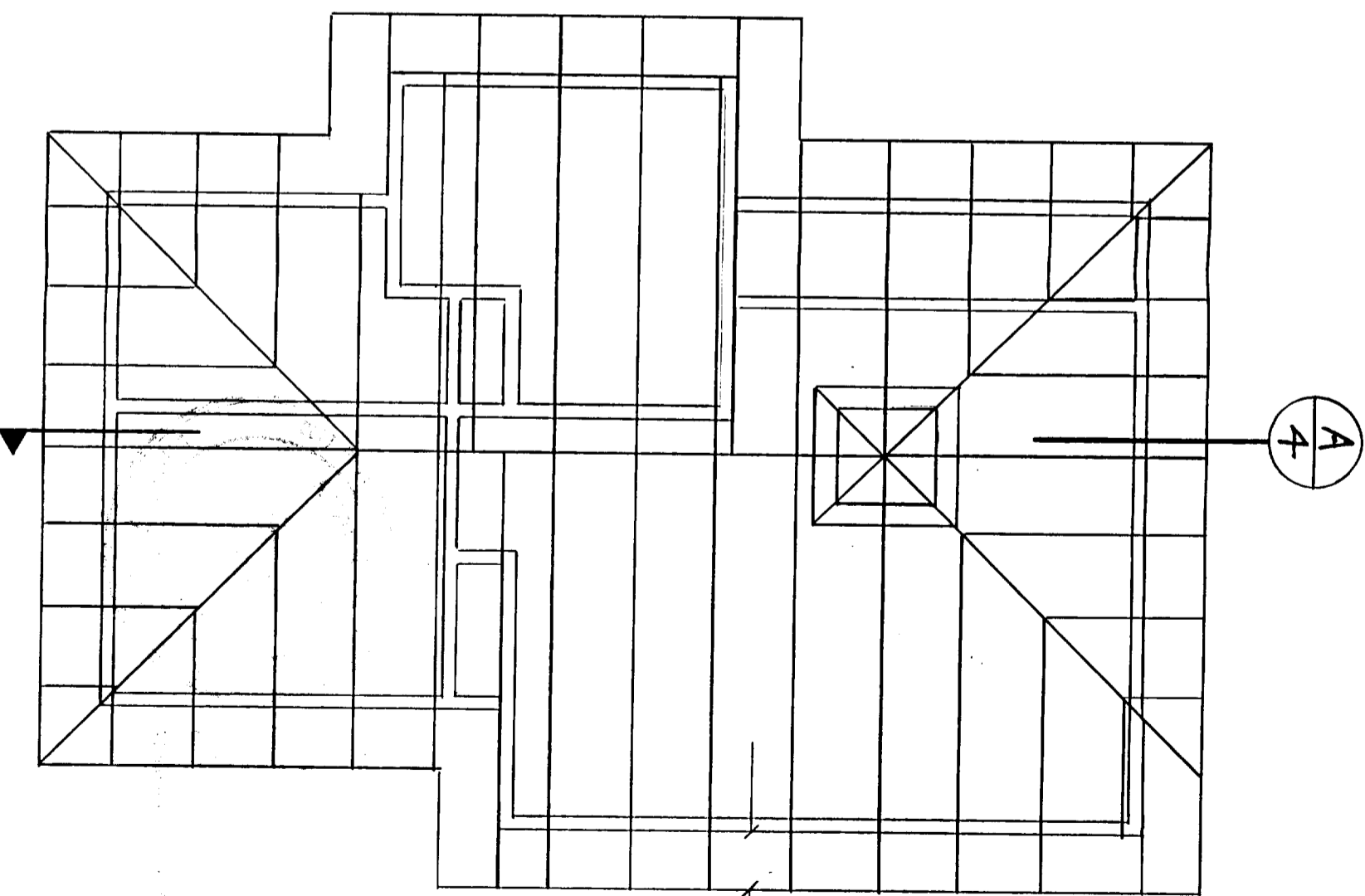
REAR ELEV. 1/8" = 1'-0" SCALE



NORTH ELEV.



SOUTH ELEV.



18" OVERHANG
TYP.

ROOF PLAN 1/4" = 1'-0" SCALE