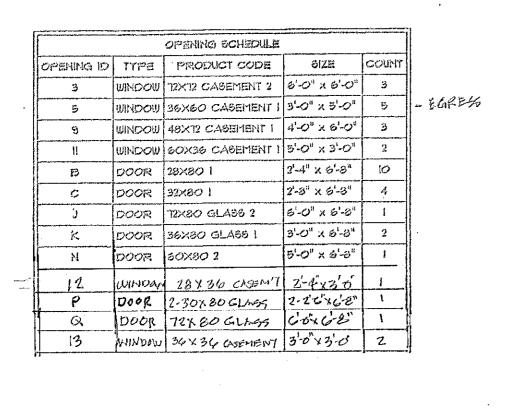
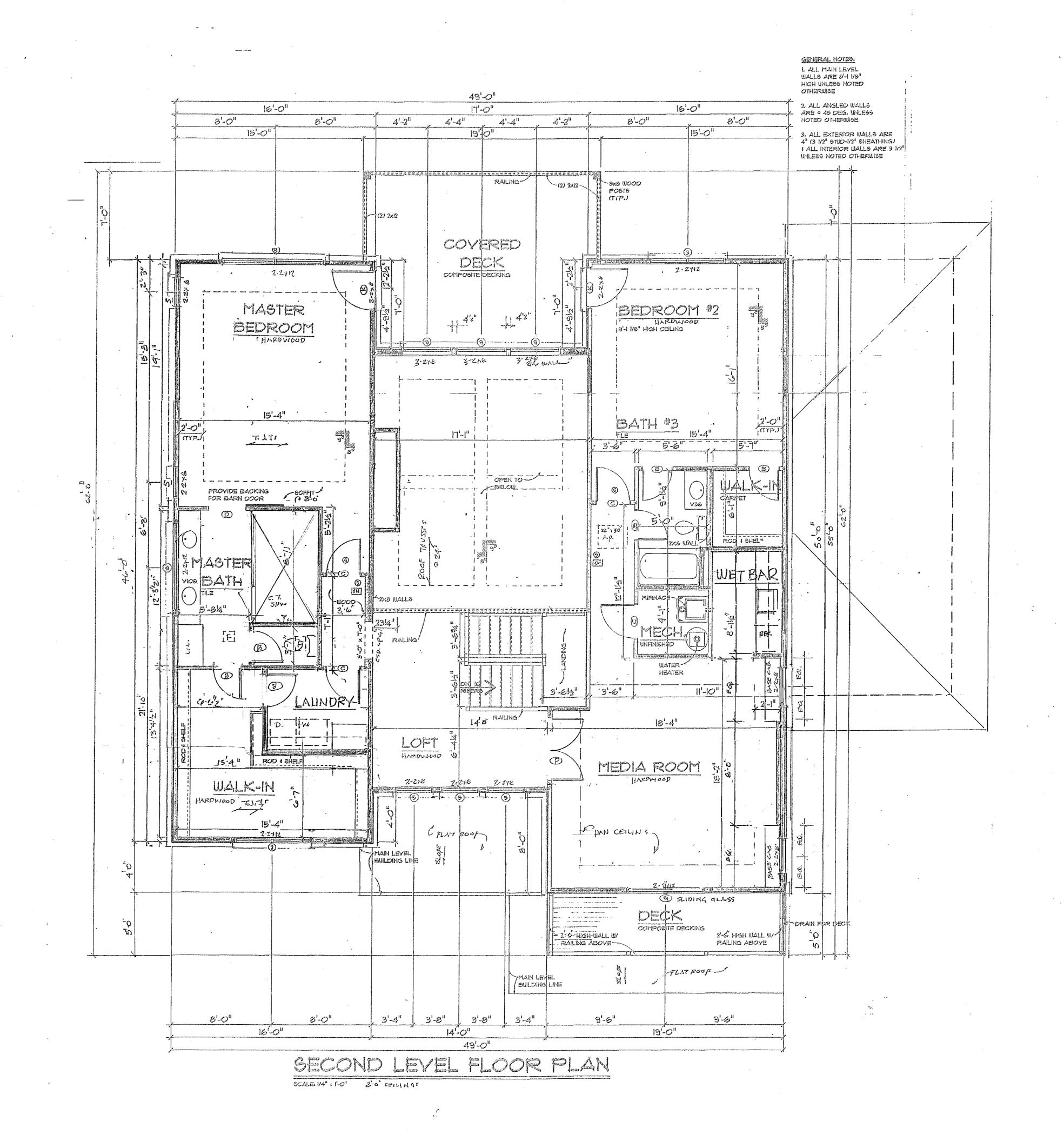


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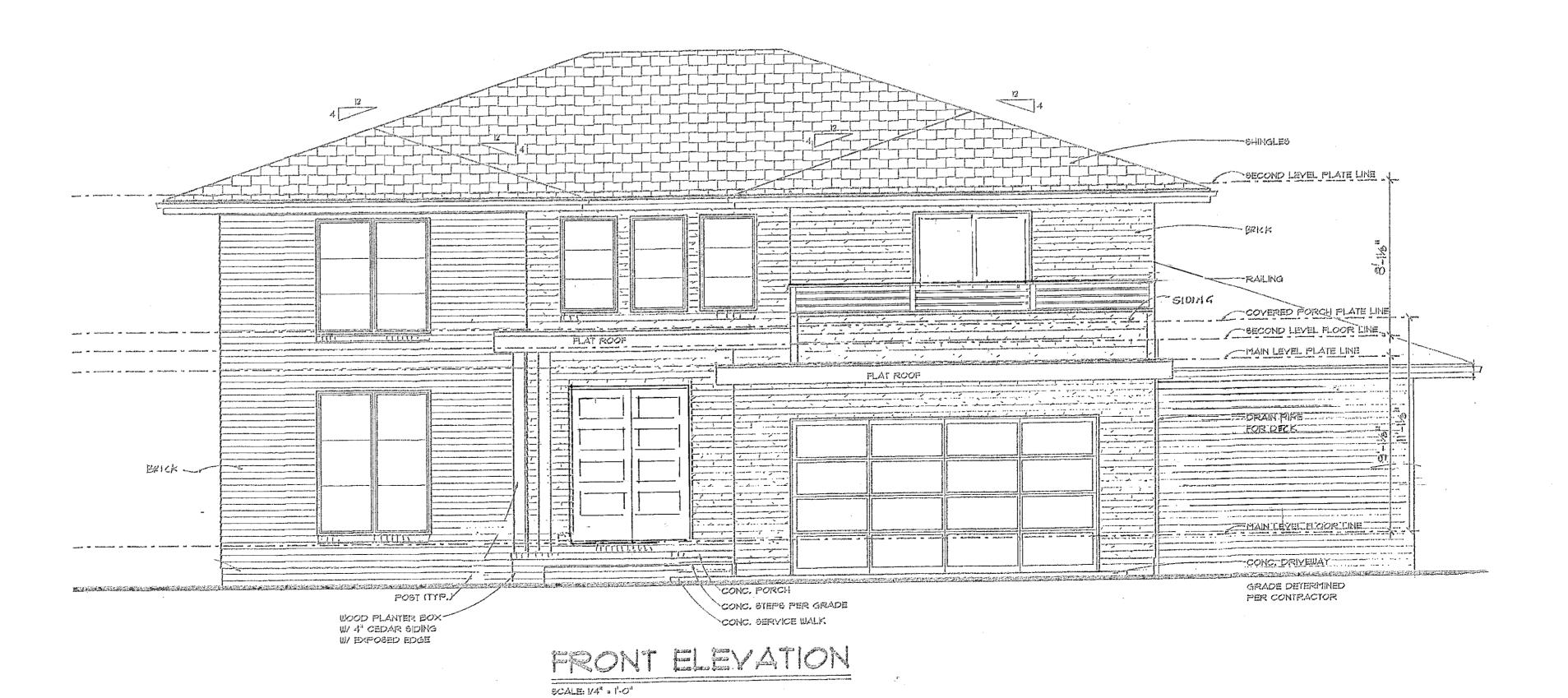
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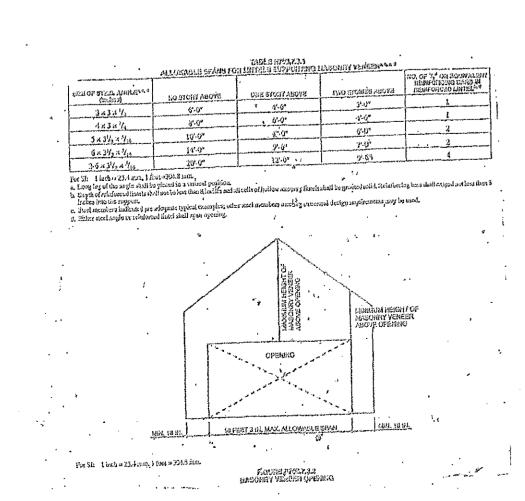
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PEAR ELEVATION

SCALE 1/4" - 1'-0'





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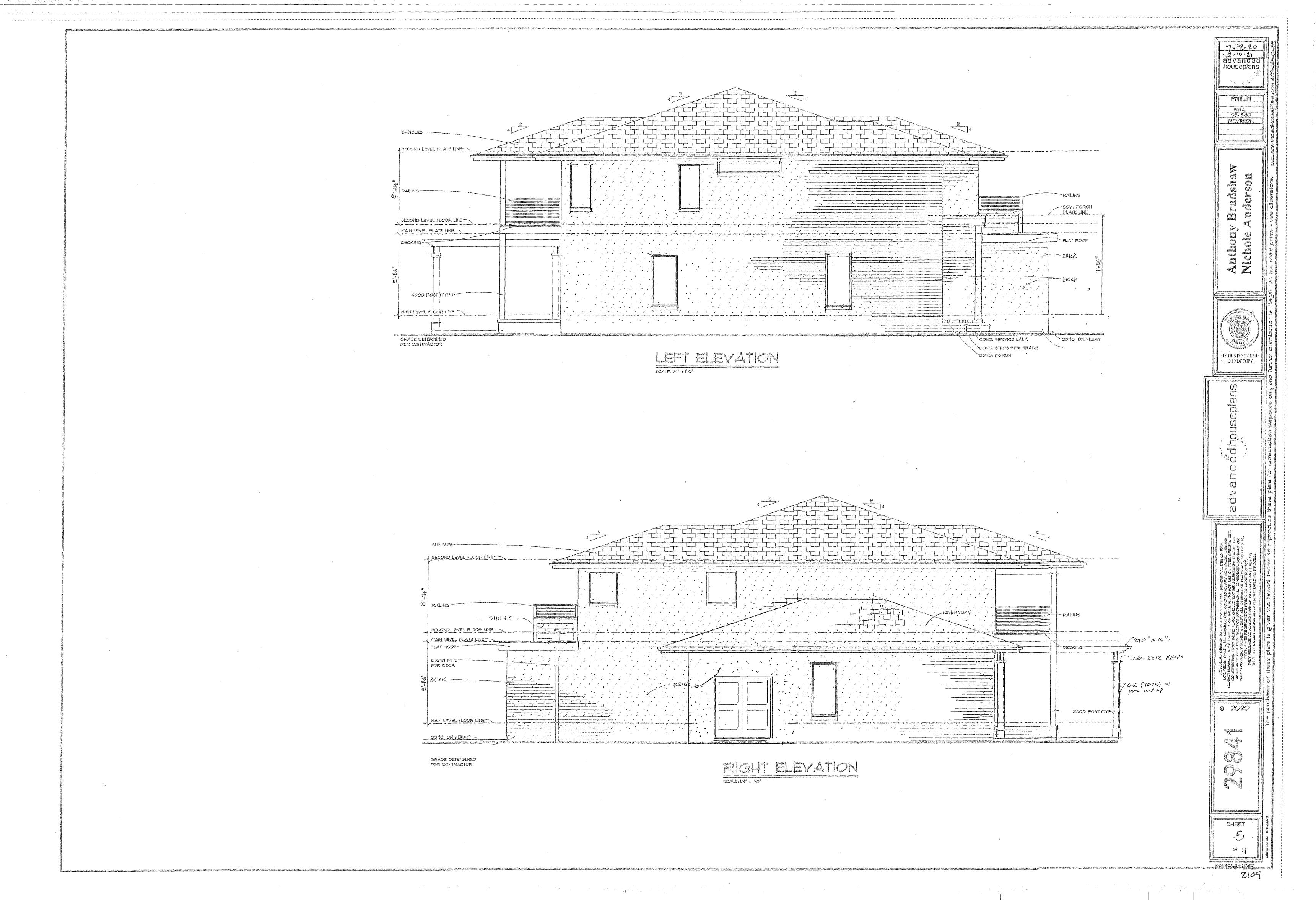
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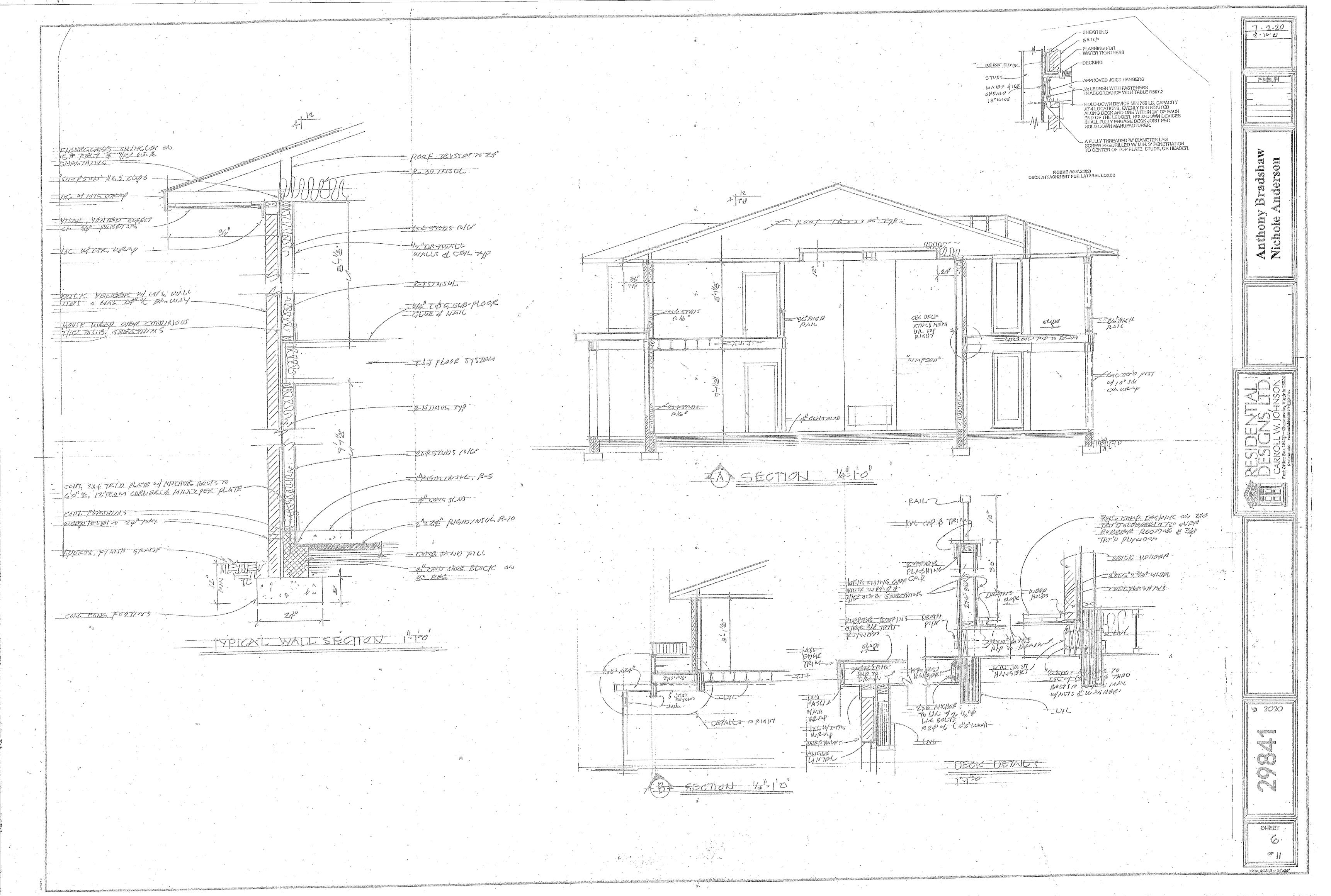
ADVANCED DESIGNS INC. IS A PROFESSIONAL RESIDENTIAL DESIGN FIRM
LOCATEDIN OMAHA, NE BECAUSE SITE CONDITIONS/ARY ADVANCED DESIGNS
CANNOT WARRANT THE SUTTABILITY OF THESE PLANS TOWN FOR USE ON YOUR SPECIFIC SITE
CONSTRUCTION FROM THESE PLANS SHOULD NOT BE UNDERTAKEN WITHOUT THE
ASSISTANCE OF A CONSTRUCTION PROFESSIONAL HOMEGUNER/CONTRACTOR
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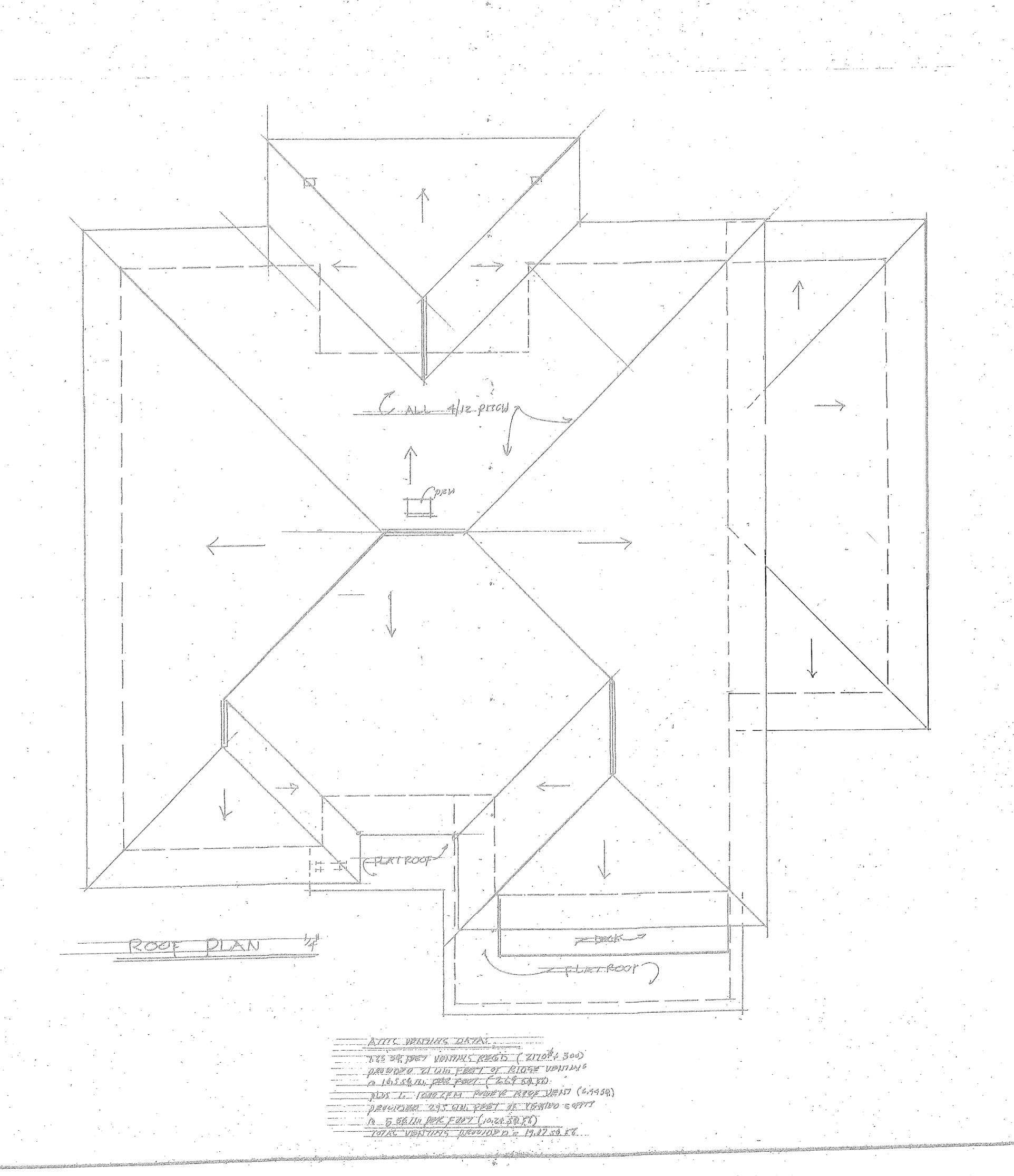
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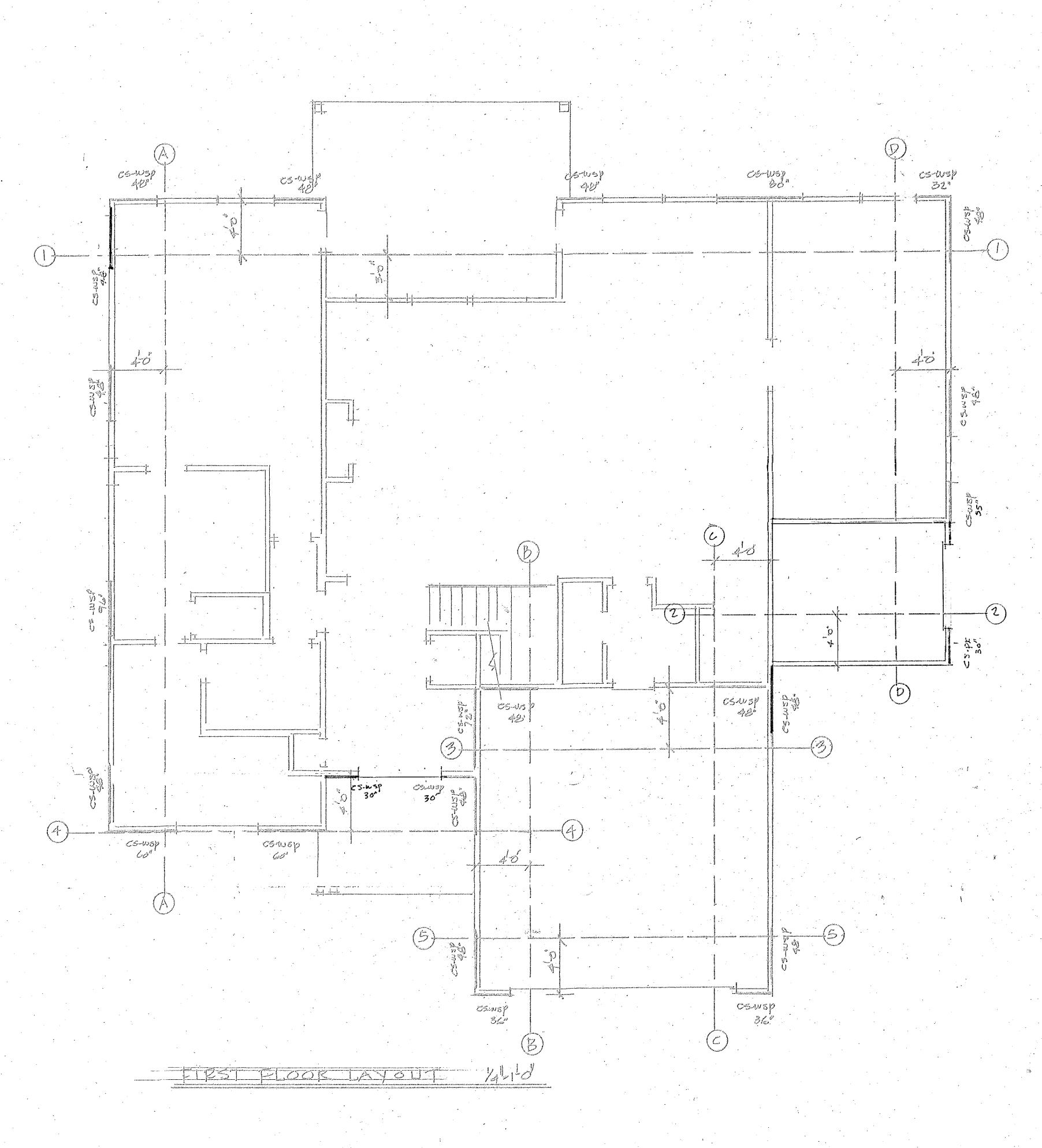
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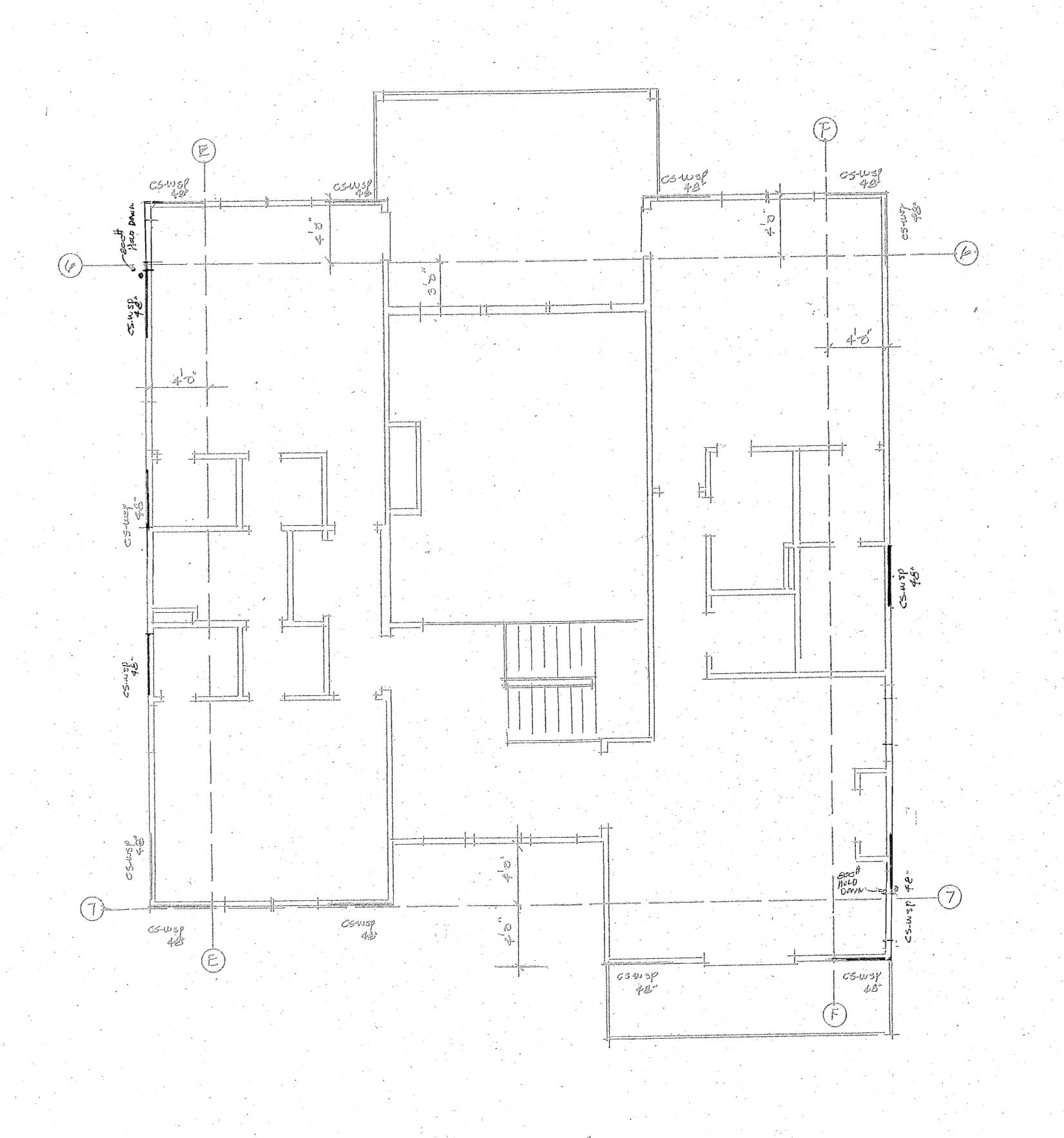
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Braced Wall Line Layout

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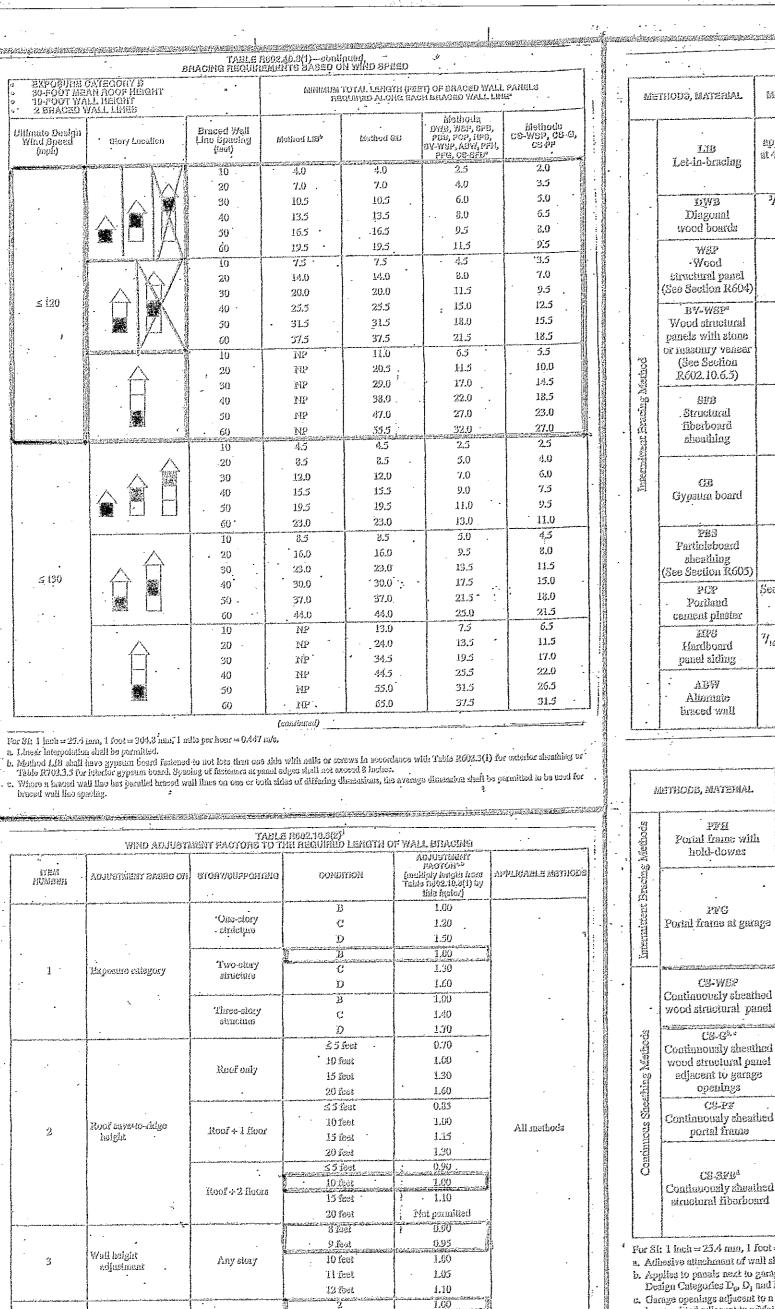
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SECOND PLOOR LAYOUT

Braced Wall Line Layout

1003 SCALE # 24"96"
2109



1.30

0.80

Highed Lengtho (badae)

Double sided = Actual

Acinal

1.5 и Асіней

lumber of braced

wall lines (per plan

didenal 800-pound

hold-down device

ypsum board Ypsum board

For 3E: 1 lach = 23.4 mm, 1 feot = 3C4.8 mm, 1 pound = 4.48 M.

b. The total adjustment herer is the product of all applicable injustment factors.

DWB, WSP, SIB, PBS, FCP, HPS, BV-WSP

 $SOCD_q$, D_1 and D_2 , relations of

e. Liceor interpolation shall be remitted.

CS-WSP, CS-SPB

hiP == Moi Permitted.

Par 94, 1 heh = 25,4 ntm, 1 foot = 304.8 mm, 1 mile per

a. Linger biscopolation stall be permitted.

Any story

Top story only

Any story

-Any story

dened to the and study of each braced

wall panel and to the

pelow pelow foundation or framin

mitied from inside fa

of braced wall panels

edges, including top

and bottom plaies, and all horizontal joints

Wall Holylu

inches o.c. at panel

blocked

b. The the selved length where it is greater than or equal to the minimum length.

o. Maximum lender helplit for LEH is 10 lent in accordance with rigure REO2.10.6.2, but well helplit shall be paralled to be increased to 12 that with pony well. d. Maximum grounding helght for PFC is 10 feet in accordance with Figure R602.10.63, but well height shall be permitted to be increased to 12 feet with your well.

a. Maximum opening height for CS-PF in 10 feet in accordance with Figure R602.10.64, has well height shall be permitted to be hurroused to 12 feet with your well.

(2¹/₂" long × 0.131" dia.) nails | For St. 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 degree = 0.0175 rad, 1 pound per square foot = 47.3 M/m², 1 mile per hour = 0.447 m/s. a. Adhesive attachment of wall sheathing, including Method GB, shall not be permitted in Seismic Design Categories C, D_p, D₁ and D₂.

b. Applies to panels next to garage door opening where supporting gable and wall or next load only. Shall only be used on one wall of the garage, in Seismic Design Categories D_0 , D_1 and D_2 roof covering dead local shall not exceed 3 per c. Carage openings adjacent to a Method CS-O panel shall be provided with a header in accordance with Table R502.5(1). A full-height clear opening shall not be permitted adjacent to a Method CE-G panel. d. Molhod CS-SFB does not apply in Selemic Design Categories D_{μ} D_1 and D_2 c. Mathod applies to detached one- and two-family dwellings in Seismic Design Categories D_0 through D_2 only.

Table Rega. 10.4 Bracing Methods

FIGURE

lee Figure R602.10.6.5

TABLE 1602.16.4—confinued BRACING METHODS

1 x 4 wood or

peroyed metal strap

t 45° to 60° angles for

maximum 16"

sind spacing

 $I_{\lambda}^{"}(1^{"}$ noncinal) for

maximum 24"

stud spacing

atud spacing

stud spacing

See Section R703.6 for

maximum 16"

stud spacing

stud spacing

minimum Thickness

 I_{2}^{n} or $^{25}I_{32}^{n}$ for

wood boards

structural panel

BY-WSP

(See Section

R602.10.6.5)

ovs

. Structural

fiberboard

goidiceda

Сіурант боат

Particleboard

sheading

Pordand

cement pluster

Hardboard

panel siding

ABW

Alieniais

braced wall

Portal frame with hold-downs

ntinuously sheathed

Co-Go.

adjacent to garage

portal frame

CONNECTION CHITERIA

Vood: per stud and

p and bottom plates

per mannfacturer

Per stud

6" edges 12" field

Varies by fastener

"at panel edges

2" at intermediate

upports 4" at braced

wall panel end posts

3" edges 6" field

pemel locations: 7"

edges (including top

3" edges 6" field

4" edges 8" field

Section R602.10.6.1

Hearthy

See Section R602.10.6.2

See Section R602,10.6.3

6" edges 12" field

Varies by fastoner

See Method CS-WSP

See Section R602.10.6.4

Fasioners

Wood: 2-8d common nails

3-8d (21/2" long x 0.113" dia.) nails

Metal strup: per manufacturer

2-8d (2^1 / $_2$ " long × 0.113" dia.) nails

 $2 - 1^3 /_4$ " long staples

Exterior sheathing per

Table R602.3(3)

Interior cheathing per

. 3d common ($2^{1}I_{2}^{n} \times 0.131$) nails

 $1^1 l_2^{-u} \log \times 0.12^u$ dia. (for l_2^{-u} thick

(for 23/32" thick sheathing)

(2¹/₂" long x 0.131" dia.) rails

exterior locations

interior locations

For ³/₃", 6d common (2" long × 0.113" dia.) nails

For $\frac{1}{2}$, 8d common

(2¹/₂" long × 0.131" dia.) nails

"long, 16 gage staples

192" dia., 0.225" dia. head nails with

length to accommodate $1^{1}I_{2}^{\prime\prime}$

peneiration into studs

See Section R602.10.6.1

Fastenore

See Section R602.10.6.2

See Section R602.10.6.3

Table R602.3(3)

futerior sheathing per

ible R602.3(1) or R602.3(2)

See Method CS-WSP

See Section R602.10.6.4

/₂"long x 0.12" dia. 13/4" long x 0.12" dia.

(for 21/2," thick sheathing) sed roofing nails or

heathing) 1³/₄" long x 0.12" dia.

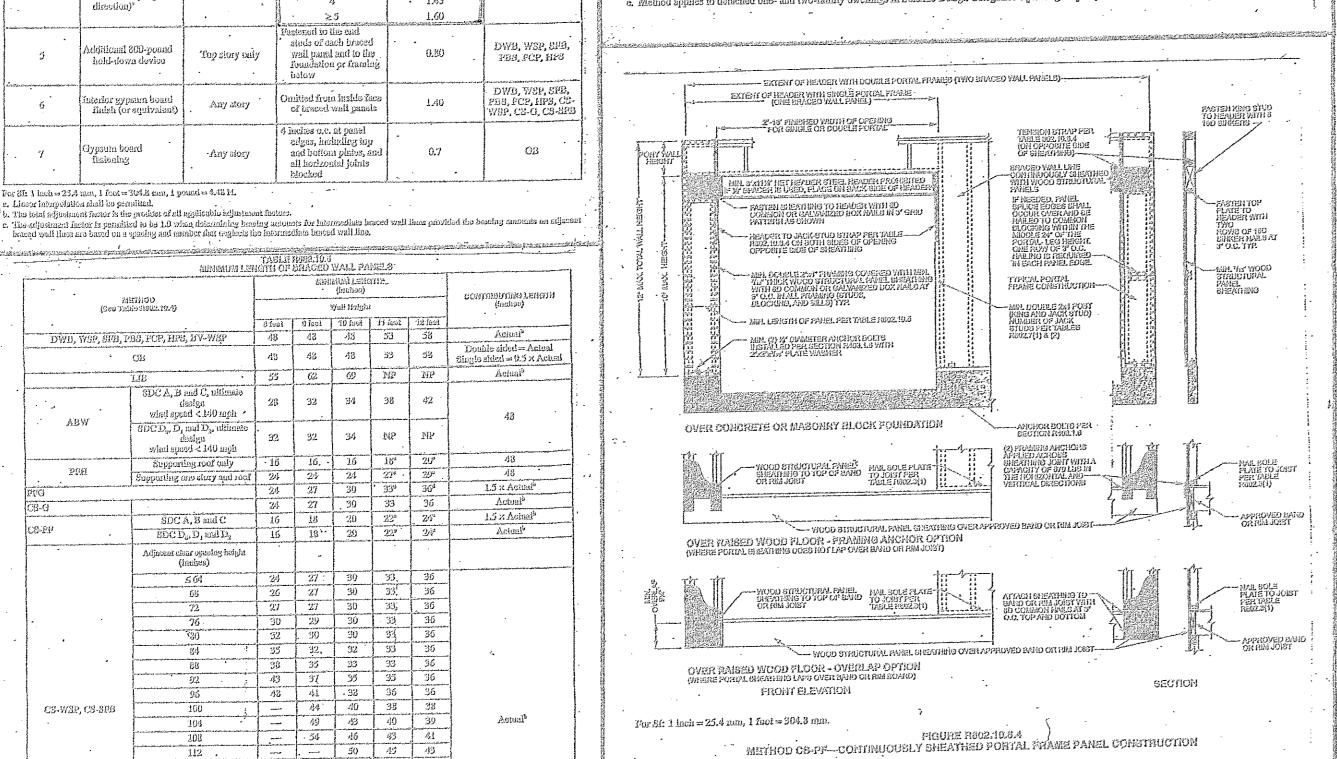
anized roofing bails or 8d common

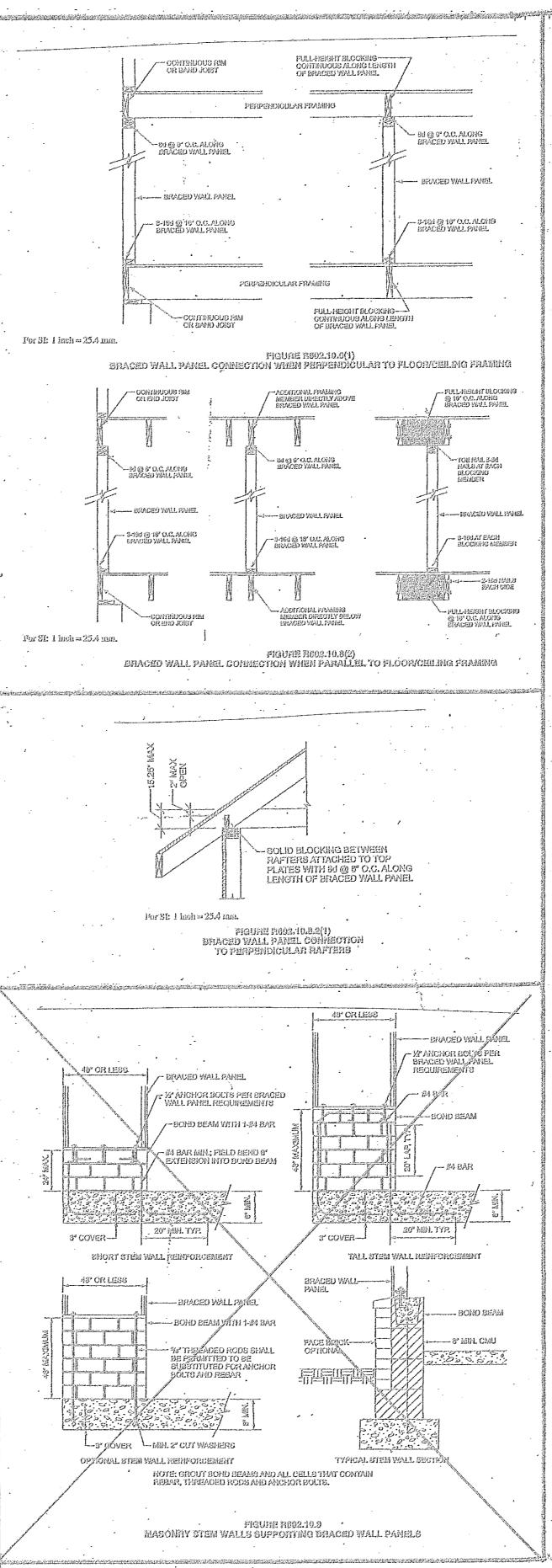
Nails or screws per Table R602.3(1) for For all braced wall

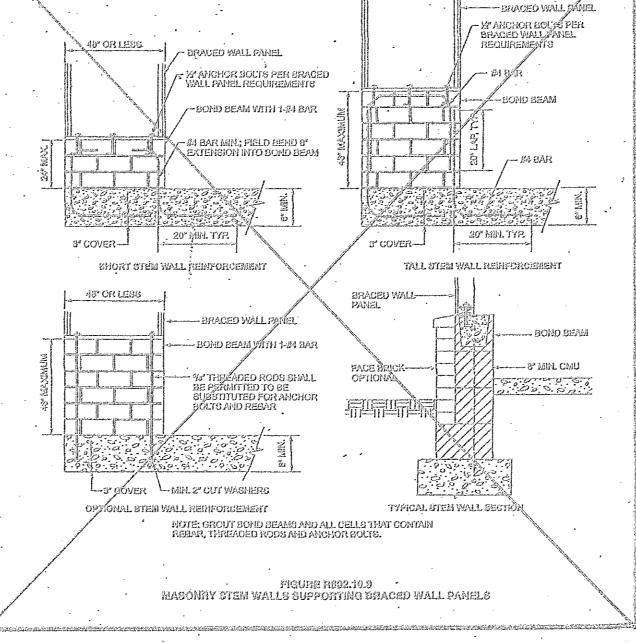
Vails or screws per Table R702.3.5 for and bottom plates) 7

 $\mathcal{I}_{2}^{"}$ long, 11 gage, $\mathcal{I}_{16}^{"}$ dia, head nails 6 ° o.c. on all framing

Table R602.3(1) or R602.3(2)







IMACCORDANCE WITH —

optional blocking for Gypsum —

CONTINUOUS WOOD STRUCTURAL

PANEL OR STRUCTURAL FIBER-BOARD BRACED WALL LINE

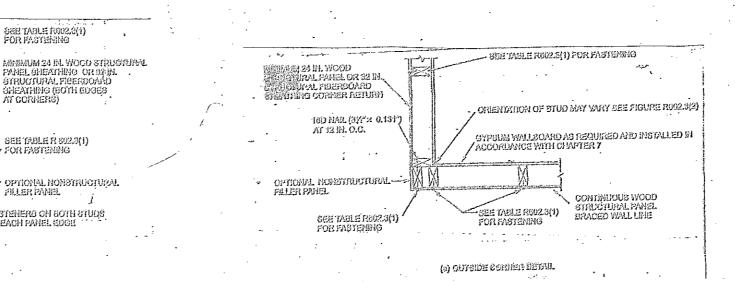
180 MAIL (3W"x 0.131")

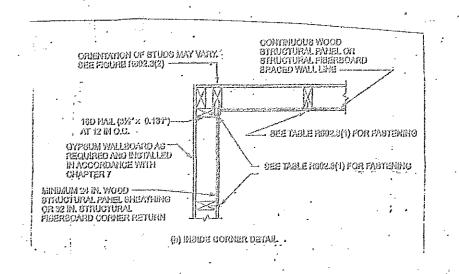
2 ROWS AT 24 IN. O.C. ---

(d) garage door coreer

AT EACH PANEL EDGE

Braced Wall Line Notes & Details





THE PERSON NAMED IN

SHEET

or II

GENERAL NOTES Construction materials and installation shall comply with the 2015 edition of The International Residential Code and any applicable regulations of the City. This structure is designed for wind exposure B, 120 MPH. 3. Buildings shall be use group R5 and type of construction shall be 5B. 4. Buildings shall be founded on undisturbed soil having a minimum bearing enpacity of 1,500 psf. Soil conditions are the responsibility of the contractor. Roof live load 20 # per sq. ft. / dead load 10 # per sq. ft. 6. Floor live load 40.# per sq. ft. / dead load 10# per sq. ft. 30# per aq. ft. / dead load 10# per sq. ft.. (At sleeping areas.) 7. Attic live load 20# per sq. ft. / dead load 10 # per sq. ft. 8. See site plan for finish floor elevation. Min. 12" above flood plain. 9. All bedroom windows shall meet the egress code requirements as set forth in the 2015 IRC. With the window open, there shall be a net free area of 5.7 sq. ft. for both first and second floor windows. Clear opening height shall be 24" and clear opening width shall be 20". All egress window allis shall not be more than 44" above the floor. Window sills in dwelling units, where the opening of an operable window is located more than 72" above the finished grade or surface below, the lowest part of the clear opening shall be a minimum of 24" above the finished floor of the room in which the window is located. Clazing between the floor and 24° shall be fixed or have openings through which a 4_1° diameter sphere cannot pass. 10. All windows shall be insulated, having a U value of . minimum .35 11. Dimensions shown on floor plans are taken from outside face of sheathing to inside face of studs. 12. Contractor shall verify and check all notes and dimensions shown on plans before starting construction. 13. All concrete footings shall be 3,000 psi placed in virgin soil.

	The voltages to your garages and the		1
14.	See tables R602.7(1) and R602.7(2) for allowable interior and exterior header and girder spans. Interior bearing walls	,	
	for first and second floors are shaded. See plans for locations. These walls shall be constructed, framed and fire	Ė	
	blocked as specified for exterior walls.		
15.	Interior bearing walls for first and second floors are chaded. See plans for locations. These walls shall be constructed,		1
	framed and fire blocked as specified for exterior walls.		
	Maximum height of all 2x4 stud walls not to excel 10'-0".		
17.	All stud walls to have a min. 1 1/2" dbL top plate and a single 1 1/2" bottom plate.	1	

18.	All floor, coiling, study and rafter material to be #2 Southern Pine or better.		
19.	Provide dol. joist below all parallel walls.		
20.	All exterior olywood sheathing to be laid vertically with no horizontal joints within	12"	of:

Stud walls bearing on concrete slabs to have treated bottom plates.

of floor or ceiling except at rafter bearing and at first floor of slab construction. Sheathing at guble ends to overlap top plate at ceiling line a min. of

21. This structure shall be fully sheathed with ½" plywood and will be firstened to stude as per lable 22. Framing at braced wall lines. A load path for lateral forces shall be provided between floor framing and braced wall

panels located above or below a floor, as specified in Section R602.10 Where joist are perpendicular to the braced wall lines above, blocking shall be provided under and in line with the braced wall panels. Where joist are perpendicular to braced wall lines below, blocking shall be provided over and in line with the braced wall panels. Where joist are parallel to braced wall lines above or below, a rim joist or other parallel framing member shall be provided at the wall to permit fastening per Table R602.3(1).

23. The end of wood joist, beams or girders shall have not less than 1 M" of bearing and not less than 3" of bearing on masonry, except where supported by a 1×4 ribbon strip and nalled to an adjacent stud or by an approved metal-hanger. 24. Fasteners for pressure treated wood or fire treated wood shall be galvanized or

25. Anchor bolts at slab construction shall be 1/2" dia. At 6'-0" o/c with a min. of two bolts per plate section with one bolt not more than 12" from corner or less than 7 bolt diameters from end of plate section. Anchor bolts shall extend into

26. CMU plors at foundations used to support girders shall not be greater in height than four times their least dimension. Unless they are filled solid with type M, S or M mortar. Hollow piers shall be capped with a 4" solid CMU or filled solid with concrete or mortar.

27. Fire blocking shall be provided to cut off concealed draft openings both vertical and horizontal and form an effective fire barrier between stories, between top story and the roof space. Fire blocking shall be provided in wood frame construction in the following locations:

Consented spaces of a stud wall, including furred spaces.

b. Vertically at ceiling and floor levels and horizontally at intervals not exceeding 10°-0°.

c. Dropped ceilings and soffits.

 d. Stair stringers at top and bottom of the run. Around vents, pipes and ducts at ceiling and floor levels with approved materials.

Cornices of a two family dwelling at a line of dwelling unit separation.

28. When there is unusable space both above and below the concealed space of a floor/celling assembly, druft stops shall be installed so that the area concealed does not exceed 1,000 sq. ft. 29. All openings in exterior walls shall have a minimum 25# psf. Positive and minimum 25# psf. negative design rating.

Vehicular access doors shall be tested in accordance with either ASTM E 330 or ANSI/ DASMA 108, and shall meet the acceptance criteria of ANSI/DASMA 108. 30. Roof areas where pitches are from 4/12 to 2/12 shall have two layers of 15% felt. Asphalt shingles shall be installed in

accordance with Section R905.2.6. 31. Floor and roof truss plans and details to be provided by truss supplier.

32. Any wall penetrations to mechanical equipment in garage shall be fire stopped as per code.

33. If garage finish floor is below flood plain, flood vents shall be installed as per manufacturer's instructions. 34. Garage ceilings to be finished with one layer of 5/8" Type X sheetrock. Garage walls to be finished with minimum K"

35. Heating, cooling, electrical and plumbing shall be designed and installed to comply with all applicable codes. 36. All showers and tubs with showers to have non-absorbent wall surfaces. This non-absorbent surface shall extend to a

height of not less than 6°-0" above the floor. 37. Provide lighting at all interior and exterior stairs and exterior doors. Where lighting outlets are installed in interior stairways, there shall be a wall switch at each floor level to control the lighting outlet where the stairway has six or more risers. The illumination of exterior stairways shall be controlled from inside the dwelling unit.

38. All exterior doors from heated spaces to be insulated.

39. Smoke detectors shall be installed in and adjacent to all sleeping areas as per code and all wired together. Provide 40. Provide a minimum of 3'x3' landing outside of all exterior doors where there are more than three risers required.

· Landing not required in garage area.

41. Perimeter insulation at concrete slabs to be a minimum R-10 and 24" wide. 42. Weep-holes shall be provided in outside width of masonry walls at a maximum spacing of 33" on center. Weep-holes shall not be less than 3/16" in diameter. Weep-holes shall be located immediately above the flashing.

43. All metal, pre-fabricated gas fireplaces shall be installed as per manufacturer's instructions.

44. All wood used in open decks shall be salt treated. 45. An approved carbon monoxide alarm shall be installed outside of each separate sleeping area in the immediate vicinity of the bedrooms.

46. A fire extinguisher having a rating of 2-A; 10-B; C or an approved equivalent type of fire extinguisher shall be installed

47. Access panels to the attic through the ceiling shall be insulated same as the ceiling and have weather stripping at all

48. Access panels to the attle through the walls shall be insulated same as the wall and have weather stripping at all edges. 49. All roof shingles used in a wind zone of 110 mph or greater are required to be classified using ASTM D3161 CLASS

For ASTM D 7158 CLASS G or H. R905.2.4.1. 50. All rafter uplift connectors must be installed per manufacturer installation instructions.

51. All dusts, air handlers, filter boxes and building cavities used as dusts shall be sealed. Joints and seams shall comply with Section M1601.4.1 of the IRC. Verification of compliance with this section shall be in accordance with either Section N1103.2.2.1 or Section N1103.2.2.2. Required thermo envelope must be maintained including all walls, floors, knee walls, ceilings, access / halphes and required fenestration U-factors. N.1102.1. Minimum U-factor or 0.35.

(EM)	Description of Building Elements	TAB FASTEN	LE R602.3(1) IMG SCHEDULE 1, NUMBER AND TYPE OF FASTENER**	- Spacing and Lo	DEATION				
1 B	locking between ceiling joists or raiters to top pl	ait -	4-3d box (2½" × 0.113") or 3-3d common (2½" × 0.131"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails	Toe nal					
2 0	ciling joists to top plate		4-8d box (2½" × 0.113"); or 3-8d common (2½" × 0.131"); or 3-10d box (3" × 0.128"); or 3-3";: (0.131" nalls	Per jobat, tos	tion:				
3 (C)	eiling joist not attached to parallel rafter, laps or partitions [see Sections R802.3.1; R802.3.2 and	er Table	4-10d box (3" × 0.128"); or 3-16d common (3 ¹ / ₂ " × 0.162"); or 4-3" × 0.131" nails	Pace nell					
4 0	RS02.5.1(9)] eiling joist attached to pandlal rafter (heal joint) [see Sactions RS02.3.1 and RS02.3.2 and Table	}	Tuble R#02.5.2	Face nai	1				
5 C	R#02.5.1(9)] oller lie to refler, face nall or 1½" × 20 ga. ridge rather	sirap io	4-15d box (3" × 0.128"); or 3-15d common (3" × 0.148"); or 4-3" × 0.131" nails	Face nail each	railer				
6 R	niter or roof truss to plate		3-16d box nails (3½" × 0.135"); or 3-16d common mils (3"× 0.148"); or 4-10d box (3"× 0.128"); or	2 toe nails on one side on opposite side of ea truss	and I toe nail ch rafter or				
			4-3" x 0.131" nails 4-16d (3½" x 0.135"); or 3-10d common (3½" x 0.148"); or 4-10d box (3" x 0.128"); or 4-3" x 0.131" nails	Tue nai					
7	oof rafters to ridge, valley or top rafters or roof a to minimum 2° ridge beam	railer	3-16d box 3½" × 0.135"); or 2-16d common (3½" × 0.162"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" mils	: . Eod nai	1				
8 S	tud to stud (not at braced wall panels)		Watt 16d common (3½" × 0.16½") 10d box (3" × 0.12½"); or	24" o.c. fact					
	ted to studened abutting student intersecting wa	l corners	3" × 0.131" nails 16d box (3 ¹ / ₂ " × 0.135"); or 3" × 0.131" halls	12" o.c. fac					
9 3	(at braced wall pagels)	-	16d common (3 ¹ / ₂ " × 0.162") 16d common (3 ¹ / ₂ " × 0.162")	16" o.c. face 16" o.c. each edg					
10 B	ulit-up header (2" to 2" header with ½" spacer)	·	16d box (3½" × 0.135") 5-8d box (2½" × 0.113"); or	12" o.c. eách edg	e face mail				
11 6	continuous header to stud	**************************************	4-8d common (2½" x 0.131"); or 4-10d bux (3" x 0.128")	Too na					
12 7	op glate to top plate		16d common (3½,"× 0.162") 16d box (3"× 0.128"); or 3"× 0.131" nalls	15" o.c. fac					
- 1	Couble top plate splice for SDCs A-D ₂ with calst well line spacing < 25'	nic braced	8-16d common (3½"× 0.162"); or 12-16d box (3½"× 0.135"); or 12-10d box (3"× 0.128"); or	Pace nail on each sid (mhimun 24" lap sp	lice length				
13	Double top plane splice SDCs D_{Φ} , D_{μ} , or D_{z} ; and t line specing $\geq 25'$	oraced wall	12-3" × 0.131" nails 12-16d (3½" × 0.135")	each side of end join)				
TEM	DESCRIPTION OF BUILDING ELEMENTS		MBER AND TYPE OF PASIENCIPA	BPAGING AND					
14	Boitom plate to joist, rim joist, band joist or blocking (not at braced wall panels)	ŧ	non (3½" × 0.162") 3½" × 0.135"); or	12" o.c. fa					
15	Bottom place to joist, rim joist, band joist or blocking (at braced wall panet)	3-16d box	c (3 ¹ / ₂ "× 0.135"); or nunon (3 ¹ / ₂ "× 0.162"); or 131" nails	3 each 16" o.c 2 each 16" o.c 4 each 16" o.c	, face nail				
16	Top or bottom plate to stud	3-16d box 4-8d com 4-10d box 4-3" x 0.1	$(2^{1}L^{\infty} \times 0.113^{n});$ or $\kappa (3^{1}L^{n} \times 0.135^{n});$ or amon $(2^{1}L^{n} \times 0.135^{n});$ or $\kappa (3^{n} \times 0.123^{n});$ or $\kappa (3^{n} \times 0.123^{n});$ or $33^{n} = 0.123^{n});$ or $33^{n} = 0.123^{n}$	Toe n					
	•	2-16d co 3-10d bo	x (3½" x 0.135"); or minon (3½" x 0.162"); or x (3" x 0.128"); or 131" nails	Bad o	ail				
17	Top plates, laps at corners and intersections	2-16d co 3-3" × 0.	x (3"× 0.128"); or mmon (3 ¹ / ₄ " × 0.162"); or 131" nails	Face :	ail ·				
18	i" brace to each stud and plate	2-8d com 2-10d bo 2 staples		Face 1	ail				
19	1" × 6" sheathing to eacit beadag	2-8d con 2-10d bo 2 staples	(2½" × 0.113"); or nncn (2½" × 0.131"); or x (3" × 0.123"); or , 1" crown, 16 ga., 1¾, "long	Facer	mil				
	· · ·	3-8d con 3-10d bo 3 steples	(2½" × 0.113"); or nmon (2½" × 0.131"); or x (3" × 0.128"); or , 1" crown, 16 ga., 1½" long	- Pace	ioi				
20	$1^a imes 8^a$ and wider sheathing to each bearing	4-8d box 3-8d con 3-10d box	an 1" x 3" (2 ¹ / ₂ " x 0.113"); or nmon (2 ¹ / ₂ " x 0.131"); or x (3" x 0.123"); or , 1" crown, 16 ga., 1 ¹ / ₄ " long	Fatt					
21	Joist to zill, top plate or girder	3-8d con	Floor (2½"×0.113"); or ninon (2½"×0.431"); or ox (3"×0.123"); or	Toe nail					
	Rim Joist, band joist or blocking to sill or top	3-3" × 0.	.131" nails 2½"×0.113") non (2½"×0.131"); or	4" o.c. ii	oe nail				
22	plate (noof applications also)	3"x 0.1	(2½ × 0.1328"); or 31" nails x (2½" × 0.113"); or angon (2½" × 0.131"); or	6" o.c. toe nail					
23	1" x 6" subfluor or less to each joist	3-10d be 2 staptes	ox (3" x 0.123"); or s, 1" crown, 16 ga., 1 ³ / ₄ " long	l'ace :					
nem	DESCRIPTION OF AULDING SLENENTS		mber and type of fasteners* Floot	6PAGEIG AND					
24	2" subfluar to-jäist or glader	2-16d co	x (3½,"×0.195"); or minon (3½,"×0.162") x (3½,"×0.135"); or	Blind and fa At each bearing					
25 26	2" planks (plank & beam—floor & 100f) Band or the joist to joist	2-16d co 3-16d co 4-10 box	misson (3½" × 0.162") misson (3½" × 0.162") (3" × 0.123"), or 131" mills; or	Red n					
-	Baild of titt lows to long	4-3"×14	131" naits; Gr I ga. sizples, 7 ₁₅ " crown mon (4" × 0.192"); or	Mail each layer as fo at top and bottom an	d singgered.				
21	Bulit-up gleders and beams, 2-lach lumber layers	3" × 0.15 And: 2-20d co	mmon (4" × 0.192"); or	24" o.c. face nail at a staggered on opposite Face nail at ends and	e sidez				
	£	3-3" × 0.	x (3" x 0.128"); or .131" nails x (3",3" x 0.135"); or 		-				
28	Ledger step supporting joists or editors Bridging to joist	4-10d bo	mmon (3½"×0.162"); or × (3"×0.128"); or .131" mails 2.10d (3"×0.128")	At each joist or n Each end,	toe naîl				
HEM	Description Of Building Elements		Number and Type of pastenemas	epacine of f Edges (Inches)*	intermediate eupporte ^{s, s} (inchee)				
	Wood altredural panels, sublicor, roul a feac Table figuz.1(8) for	22711112 01114	rali sheathing to irmning and perileichoese piond panol existior wall sheathing to wall nou (2" × 0.113") nell (subfloor, wall)		12 ^f				
30	3f "-1f"	89 coun	non $(2^n \times 0.113^n)$ nell (submoor, wan) non $(2^1 l_2^n \times 0.131^n)$ nall (roof) non nall $(2^1 l_2^n \times 0.131^n)$	6	12 ^t				
31		10d con 8d (2 ¹ / ₂ ¹	emon (3" × 0.148") nail; or "× 0.131") dəfoncəd nall	6	12				
33	1/2" structural cellulogic fiberboard	01	har wall shealding" wanized roofing nail, "7 ₁₆ " head r, or 1" crown staple 16 ga., 17 ₄ " long	3	б				
34	shouthing 25/ " ctentional cellulusic	13/ // 1/10	w, or 1" crown staple 10 ga., 174" long lyanized roofing nail, 715" head dlame- "crown staple 16 ga., 174" long	3	ó ·				
35	Refronte stating	1½" ga 1½" lor	fyanized roofing nail; staple galyanized ag; l ¹ / ₄ " screws, Type W or S	1	7				
36	³ / ₃ " gypsum sbesthing ⁴	1 ³ / ₄ " gu	Ivanized roofing nail; siaple galvanized uz; 15/, " scrows, Typo W or S		7				
-		f panels, co	mbination subtluor underlayment to framt rined (2" × 0.129") nath; or	ng 6	12				
37		3d cum	mon (2½" × 0.131") nail mon (2½" × 0.131") nail; or most (2½" × 0.120") nail	6	- 12				
35		10d cos	nmen (212 × 0.148") mil; or nmen (212 × 0.148") mil; or nmed (212 × 0.120") mili	6	- 12				
For 5	St. 1 lach = 25.4 cma, 1 foot = 304.5 mm, 1 rails per h Mails are smooth-common, box or deformed thanks to	our = 0./47	m/s; 1 ksl = 6.895 MPa.	end viceribing sourcellun	ninim eyad Bada r				

39	11/3" + 11/4"	10d common (3"× 0.148") nall; or 8d deformed (27," × 0.120") nall	6	- 12	
For SI:	1 lach = 25.4 mm, 1 foot = 304.8 mm, 1 mile per hom	= 0.447 m/s; 1 kst = 6.893 MPa.			
a. Mai	is are smooth-common, but or defermed thanks wer mage beading yield strengths at shown: 30 kei for cha Jones than 0 177 Inch and 100 kei for shouk diamete	opt where otherwise stated. Nails used for framing and ak diameter of 0.193 lach (20d commun nail), 90 ksl fo ts of 0.142 lach or loss.	l shenthing connection or shook disoneters larg	s <u>shell have min</u> ger than 0.142 lan	ioma io but
b. Sta	ples are 16 gage wire and have a intolorum γ_{w} -inch or	n diameter erowa syste.		•	
e, Mai	its chall be spaced at met more than 6 inches en center.	at an and who			

 d. Pour-first by 8-foot or 4-foot by 9-foot panels shall be applied varieably.
 Specing of fasteners not included in this table shall be based on Tubio 2.002.3(2). c. opening of assences not mornion in this note arm to been in Table 2-002.5(2).
f. Where the ultimate design what speed is 130 mph or less, natis for attaching wood structural panel roof sheathing to gable and well fracing shall be spaced for coaler. Where the ultimate design what speed is greater than 130 mph, nells for attaching panel roof sheathing to intermediate supports shall be uposed 6 lackes on coaler for minimum 48-lach distance from ridger, caves and gable and walls; and 4 lackes on coaler for minimum 48-lach distance from ridger, caves and gable and walls; and 4 lackes on coaler for minimum 48-lach distance from ridger, caves and gable and walls; and 4 lackes on coaler for minimum 48-lach distance from ridger, caves and gable and walls; and 4 lackes on coaler for minimum 48-lach distance from ridger, caves and gable and walls; and 4 lackes on coaler for minimum 48-lach distance from ridger, caves and gable and walls; and 4 lackes on coaler for minimum 48-lach distance from ridger.

prom sincelling chall conform to ASTM C1996 and shall be installed in accordance with CA 253. Fiburboard sheathing shall conform to ASTM C208. Spacing of fusioners on floor sheathing panel edges applies to panel edges supported by finaling mombers and required blocking and at floor perimeters only.

Spacing of fasteness on roof absorbing panel edges applies to panel edges supported by franking manubers and required blocking. Blocking of roof or floor bouthing panel edges perpendicular to the framing members need not be provided except as required by other provisions of his code. Floor perimeter shall be Where a ratter is fastemed to an adjacent parallel celling joist in accordance with this schedule, provide two toe nails on one side of the rafter and toe nails from the celling joist to top place in accordance with this schedule. The toe nail on the opposite side of the rafter shall not be required.

(Header Insulation; Gaps in headers must be insulated to a minimum of R-3.

Wall Corner Cuvity; Gaps in comers must be insulated to a minimum of R-3.

		enekad	oa P	numun Struc Panel Nati	oow a Larut Larut	0	Mihimi Nomin Pane Hickn Hickn	im Al. L Ees	MAKU	MUM W SPAC Inchos)	ALL.	PAR PBB	al na	IL SPA	onia Ield	Ul Vina	AMIT. 2 GIAIV 11) 2002:51	ene ca PESD' PESD'	V _{et}
6d Cemmo (2.0° × 0.113	n l	inchas 1,5)	24			3/3	#)		16		(Insha G		 	98 0.6. 12		3 10	C 115	110
8d Commo (2.5" × 0.13 or SI: 1 lach = 25 Pract strength a panel strength a	n 1°) Amo, 1 m als gerellet	or purp	adicul	ar to se _i	ls.	Three-p	N _{is}		vethlo	16 24 g with :	studs 3	0. 6 10 paced o			12 12 ches o	1	70 10 · stutt i	140 115 e appli	135 110 isd w
Table is bened o secondance with Wood structural n.e. or 24 o.e. si more than 15 for	Section R6 panels with nall be genn thes on cen	02,10. 1 span n dited as	त्तीवहुड (२०४ वीर्ष	i. of Wall-	ló er l i pauel	: Wail-24 a with s	siali é 12VIG	e pena span n	itted as along. 1	r zor nite Valt-16	eroalo i and Pl	o pauek lywood SHEA	s with s slding , TAIN(124/0 s 16 o.e.	omi jai	iog. Ply	wood s	idina u	nisd
THE KNESS (Inch)			M-1 B	anade aterior				Stib is the Stib is the Stib is the Stib is the Stib is stib is the Stib is th							n skili	ig le na — —	•	chonin:	log
or St. 1 inch = 25 Walf sheathing r mast. All panel (Mazima	iot exposed	tie supp	oried, l	Leave a 	7 ₁₅ -110 22 AM	d gap b	elween Tae	i pinels LE fie SPANE No Plo	and a 02.7() 107.70 107.80 108.60	il not k l EKYE Spruc	esi ile ROIE alq-es	a Y, locd BEAR! Solic' a	i kom Mar W nd ren	panel e	dges.				vill a
UROENS AND HEADERS SUPPORTING	eize	12		30		100		12	ខកា	o gno!	i Mih ^a (i	eo) (psi)°			,	20		8	
	1-2x6 1-2x3 1-2x10 1-2x12	8paul 4-0 5-1 5-0 7-1	1 2 2 2	3-1 3-1 3-11 4-3 5-5	2 2 2 2 2	2-7 3-3 3-11 4-7	2 2 2 2 3	6pan 3-5 4-4 5-2 6-1	1 2 2 2	3-4 4-0 4-8	NJ ⁴ 2 2 2 3	2-3 2-10 3-1 3-11	NJ ⁵ 2 2 2 3	3-10 3-10 3-10 3-3	NS ⁴ 2 2 2 2 2 2	3-6 4-2	NJ ^d 2 2 3 3 3	2-D 2-6 3-6 3-6	3 3 3
ouf and colling	2-2×4 2-2×5 2-2×3 2-2×10	4-0 	1 1 1	3-1 4-7 5-9 6-10	1 1 2	2-7 3-10 4-10 5-9	i i 2	3-5 5-1 6-5 7-8	1 1 2	2-1 3-11 5-0 5-11	1 2 2	2-2 3-5 4-2 4-11	1 2 2 2	3-0 4-5 5-9 6-9	1 2	2-4 3-6 4-5 5-3	1 2 2 2	2-9 2-11 3-9 4-5	1 2 2
Transport Control Control	2-2×12 3-2×3 3-2×10 3-2×13	19-7 2-5 11-3 13-2	2 1 1	3-1 7-3 3-7 10-1	1 2	6-10 6-1 7-3 8-6	2 2 2	9-0 3-1 9-7 11-3	1 2	6-11 6-3 7-4 8-8	2 2 2	5-10 5-3 6-2 7-1	2 2 2 2	8-0 7-2 8-6 10-0 8-3	2 1 1 2	6-2 5-5 6-7 7-9 6-5	2 2 2 2	3-2 4-3 5-6 6-6 5-4	2 2 2
	42×8 42×10 42×12 1-2×5 1-2×8	19-11 13-11 15-3 3-3 4-1	1 1 2	9-11 11-3 2-7 3-3	1 1 2 2 2	7-9 3-4 9-10 2-2 2-9	1 2 2 2 2	94 11-1 13-0 3-0	1 - 2 - 2	7-2 8-6 10-0 2-1 3-0	1 3 2 2	60 7-2 8-5 2-0 2-5	2 2 3	9-10 11-7 2-9 3-6	1 1 2 2	3-11 2-2 2-9	2 2 2 2	6-1 7-5 1-10	2
	1-2×19 1-2×12 2-2×4 2-2×6	4-11 3-3 4-10	2 2 1	3-10 4-6 2-6 3-9	2 3 1	3-3 3-10 2-2 3-3	3 3 1 2	4-6 3-3 3-0 4-5	2 2 1	3-6 4-2 2-4 3-6	3 1 2	3-0 3-6 2-0 3-0	3 3 1 2	4-10 2-3 4-1	3 1 1	3-3 3-10 2-2 - 3-3	3 1 2	2-9. 3-3 1-10 2-9	
Roof, celling and one centse- bearing floor	2-2×8 2-2×10 2-2×12 3-3×8	6-1 7-3 8-6 7-8	1 2 2 1	4-10 5-3 6-3 6-0 7-2	2 2 1 2 3	4-10 5-8 3-1 6-1	2 2 2 2 2	5-7 6-3 7-10 7-0 8-4	2 2 1	5-3 5-2 5-5 6-7	2 2 2 2 2	3-9 4-5 3-3 4-8 5-7	2 2 3 2 2	5-2 6-1 7-2 6-5 7-8	2 2 1 2	4-10 5-8 5-1 6-1	2 2 2 2	3-6 4-1 4-10 4-4 5-2	
	3-2×10 3-2×12 4-2×3 4-2×10 4-2×12	9-1 19-8 8-19 19-6	1 2 1 1	8-5 6-11 3-3 9-8	2 1 2 2	7-2 5-11 7-0 8-3	2 1 2 2	9-10 3-1 9-3 11-4	1 1 2	7-8 6-4 7-7 3-11	2 1 2 2	5-3 5-3 5-3 7-7	3 2 2 2	9-9 7-5 3-10 10-4	2 1 1 2	7-1 5-11 7-0 3-3	1 2 2	6-1 5-0 6-0 7-0	
Roof, ceiling and one slear span Hoor	1-2×6 1-2×3 1-2×10 1-2×12	2-11 3-9 4-5 5-2	2 2 3 2	2-3 2-10 3-5 4-0	2 · 2 · 3 · 3	2-5 2-10 3-4	3 3	2-9 3-6 4-2 4-10	2 2 3 3	2-1 2-8 3-2 3-9	2 2 3 3	1-9 2-3 2-3 3-2	3 3 4 1	2-7 3-3 3-11 4-1 2-7	2 2 3	2-0 2-6 3-0 3-6 2-0	3 3	1-3 2-2 2-6 3-0 1-3	
	2-2×4 2-2×6 2-2×3 2-2×10 2-2×12	2-11 4-4 5-5 5-1 7-9	1 2 2 2	3-4 4-3 5-0 5-11	2 2 2 2 2	3-1 3-1 4-2 4-11	1 2 2 3	2-9 4-1 5-2 6-1 7-2	1 2 2 2	3-2 4-0 4-9 5-7	2 2 2	1-9 2-8 3-4 4-0 4-8	2 2 3	3-10 4-10 5-9 6-9	2 2 2	3-0 3-0 3-9 4-5 5-3	2 2 3	2-6 3-2 3-9 4-5	 -
	3-2×3 3-2×19 3-2×12 4-2×8 4-2×10	6-11 8-3 9-3 8-0 9-6	1 2 2 1	5-3 6-3 7-5 6-1 7-3	2 2 2 1	4-5 5-3 6-2 5-1 5-1	2 2 2 2 2 3	6;3 7-3 9-6 7-3 3-10	1 2 2 1	5-9 5-11 7-0 5-9 6-10	2 2 2 2 2 2	4-2 5-0 5-10 - 11-10 5-9	2 · 2 · 2 · 2 · 2 · 2 · 2 · 2 · 2 · 2 ·	6-1 7-3 3-5 7-0 8-4	1 2 1 1	4-3 5-7 5-7 5-5 6-5	2 2 3 2	4-0 4-8 5-6 4-7 5-5	
OMBERE AND CHEADEN DINTOPOUR	4-2 x 12	11-2	2		2 	7-2	00	<u> </u>		galbli.	50)°	9-10	12		70	6-5	35
	1-2×6 1-2×8 1-2×10	5pan ⁴ 2-3 3-5 4-0	2 2 2	8pan ^t 2-1 2-8 3-2	2 2 2 3	Span ^t 1-10 2-4 2-9	2 3 3	3pan 27 3-3 3-19	2 2 2	2-0 2-7 3-1	2 3	1-9 2-2 2-7	3	3-1 3-8	2 2 2	6pan 1-11 2-5 2-11	NJ ³ 2 3	3-1 2-1 2-3	
Roof, celling and two center-	1-2×13 2-2×4 2-2×6 2-2×6 2-2×10	4-9 2-8 4-9 5-0 6-0	1 2 2	3-9 2-1 3-2 4-0 4-9	3 2 3 2	3-2 1-9 2-3 3-5 4-0	1 2 2 2	4-6 2-5 3-9 4-10 5-8	1 1 2 2	3-7 2-0 3-0 3-10 4-6	3 1 2 2 2	3-1 1-3 2-7 3-3 3-10	2 2 3	2-5 3-7 4-7 5-5	3 1 1 2 2	3-5 1-11 2-10 3-7 4-3	1 2 2 2	2-11 1-7 2-5 3-1 3-8	
bearing floors	3-2×12 3-2×3 3-2×10 3-2×12	7-0 5-3 7-6 3-10	2 1 2 2 2	5-7 5-0 5-11 7-0	2 2 2	4-9 4-3 3-1 5-11	3 2 2 2	6-8 6-0 7-1 8-5	2 1 2 2	5-4 4-9 5-8 5-8	3 2 2 2	4-6 4-1 4-10 5-8	3 2 3	6-4 5-8 6-9 8-0	2 2 2 2	5-0 4-6 5-4 6-4	3 2 2 2	4-3 3-10 4-7 5-4	
	4-2×8 4-2×10 4-2×12 1-2×6	7-3 3-3 10-2 2-3	1 2 2	5-9 6-10 1-8 1-9	1 3 2 2	4-11 5-10 6-10 1-5	2 2 2 3	5-11 3-3 9-6 2-3 2-10	2 2 2	5-5 5-6 7-3 1-9 2-2	2 2 2 3	5-7 6-7 1-5	2 2 3 3	5-7 7-10 9-2 2-2 2-9	1 2 2 2 2	5-2 6-2 7-3 1-3	2 2 2 3	4-5 5-3 6-2 1-5	
	1-2×8 1-2×19 1-2×12 2-2×4 2-2×6	2-10 3-1 4-0 2-3 3-4	2 3 1	2-2 2-7 3-0 1-3 2-6	3 3 1 2	1-10 2-2 2-1 1-4 3-2	3 4	3-4 4-0 2-3 3-4	3 1 -2	2-7 2-9 1-3 2-6	3 1 1 2	2-2 2-7 1-4 2-2	4 4	3-3 3-10 2-2 3-3	3	2-6 3-0 1-2 2-6	3 4 1 2	2-2 2-6 1-9 2-1	
Roof, colling, and two clear- spun Roors	2-2×5 2-2×10 2-2×12 3-2×3	3-0 5-11 3-3	2 2 2 1	3-3 3-19 4-6 4-0	2 2 3 2	2-8 3-2 3-9 3-5	2 3 3 2	4-3 3-0 3-11 3-3	2 2 2 2	3-3 3-10 4-6 4-0	3 2	2-8 3-2 3-9 3-5	2 3 2	4-1 4-10 5-3 3-1	2	3-2 3-9 4-5 3-11	-!	2-3 3-2 3-9 3-4	
	3-2x:10 3-2x:12 4-2x3 4-2x10 4-2x12	6-3 7-5 6-1 7-3 9-6	2 1 2 2	4-9 5-8 4-8 5-6 6-5	2 2 2 2	4-9 3-11 4-3 5-6	3 2 2 2	6-3 7-5 6-1 7-3 8-6	2 3 2 2	1-9 5-5 2-3 5-6 5-6	2 2 2 2 2	4-9 3-11 4-8 5-6	2	5-11 7-2 5-11 7-0 3-3	2 1 2 2 2	4-8 5-6 4-7 5-5 6-4	2 3 2 2 2	4-9 4-8 3-11 4-7 5-4	
For M: I inch = 1 n. Spans are give b. Spans are base c. Building widt d. NI - Mumber	25 A mou, 1 on in feet and of the mile of is measure of isck stud	t beseq testeni b testeni b sipeq te	er squ i. design adjoub	proped ar to the	les for cridge. each ea	19 KPa. Mo. 2 g For wh	rade iu dda bei re liie :	iween L number	ioso si os req	10 W.H. 39	03133 70	e oerad	tied to	oa Inter	polated		•		ned
approved from e. Use 30 per gra f. Spans are calc braced (e.g. ar shall be design	ilig ancher eind snow l eilated assu ipple studs	aliacheo ond for onlog tha boarlog	l to the cases i stop ci son lite	full-he a which	lght wi groun der or), moul	ell stud d snow gluder i gluder i gluder sp	and to t load is s istem ens for	he hew less thr lly tugs headen	ler. m 30 p ed by p e consi e consi	sfand i perpend sting of .712)	be rooi îcular i 2x8, 2	flive for framing Ex10, or	d is eq . When 2x12	pal to c a tha top sizes ab	r less t p of the all he s	han 20 header	orein	eris no	ot fai
Maxil Headeku Gerden Hoopole	ម	1 rel ec na	ve vongla	an SP.	erch,	Hem-il	r, Sou	illern i	Pine a	nd Sp -at Sp	an" hLDIM ruco-j	ON BEA Sine-Hr G WIOT 24	and F(feet	require)	ed nur	Gpass"	í Jack 35	·	1.50
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Ose floor	only		×3 ×10		9-8 11-3 13-6	;		1 i		6- 8	-7 10 -1 -6		2 1 1 2			6-3 5-7 6-1 7-9			2 1 2 2
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	- Annual Control of the Control of t	2-2 2-2 2-2	x4 x6 x8 x10		2-7 3-11 5-0 5-11	1		1 1 2		2- 3 4	11 11 -8 -4		2 2 2			2-5 3-1 3-7			2 2 2
Two flo	963	3-2 3-2	x 12 x 3 x 10 x 12					2 1 1 2		5	-2 -7 -6 -5		2 2 2 2			4-3 3-10 4-6 5-4			3 2 2 2
		4-2	×8 ×10	7-5 8-8 7-2 8-6 10-1				1	5-4 6-4 7-5				1 2			4-5 5-3 6-2		2 2 . 2 .	

Table 15012.5(3) Requirements for wood structural panel wall sheathing used to resist wind pressures**.

b. Spans are based on the minimum dusign properties for No. 2 grade hunder of Douglas Pir-Larch, Han-Pir, Southern Pins, and Spruce-Pino Fir. d. All = Majaber of Jack study required to support each each. Where the number of required Jack study equals one, the beader is pennified to be supported by an . Spens no calculated assuming the top of the header or girder is intensity braced by perpendicular framing. Where the top of the header or girder is not intensity braced (e.g., cripple study bearing on the header), inbulinted spens for headers consisting of 2 × 9, 2 × 10, or 2 × 12 sizes shall be inclipfied by 0.70 or the

R602.7.5 Supports for headers. Headers shall be sup ported on each end with one or more jack studs or with approved framing anchors in accordance with Table R602.7(1) or R602.7(2). The full-height stud adjacent to. each end of the header shall be end nailed to each end of the header with four-16d nails (3.5 inches \times 0.135 inches). The minimum number of full-height studs at each end of a header shall be in accordance with Tuble R602.7.5. TABLE R802.7.5 MINIMUM NUMBER OF FULL HEIGHT STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS > 12/102 CO 16, BID 10 DEVIN JAKE WITTE KNUHUR BOLT 4 COSS 5615 THOUSE WEND NER -1/16" OF 5-BL STEARTHING - STRAPS (2) PER POST 0 36" LONG MIN SHIP DECKING TYLEBOUT TO PUST W/ 2 1/2" PACK - MTL JUIST MANGERS WEND INC WE WATER & ICE 3/1/PUC USRAM -15179/5010 NBU-88 - BASEANCHORUN 1/2"& ANCHOR BUCH TAL COME, B'CHU- FILL SOLID TO ANCHOR BOLTS

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