

DRAWN BY: CWI

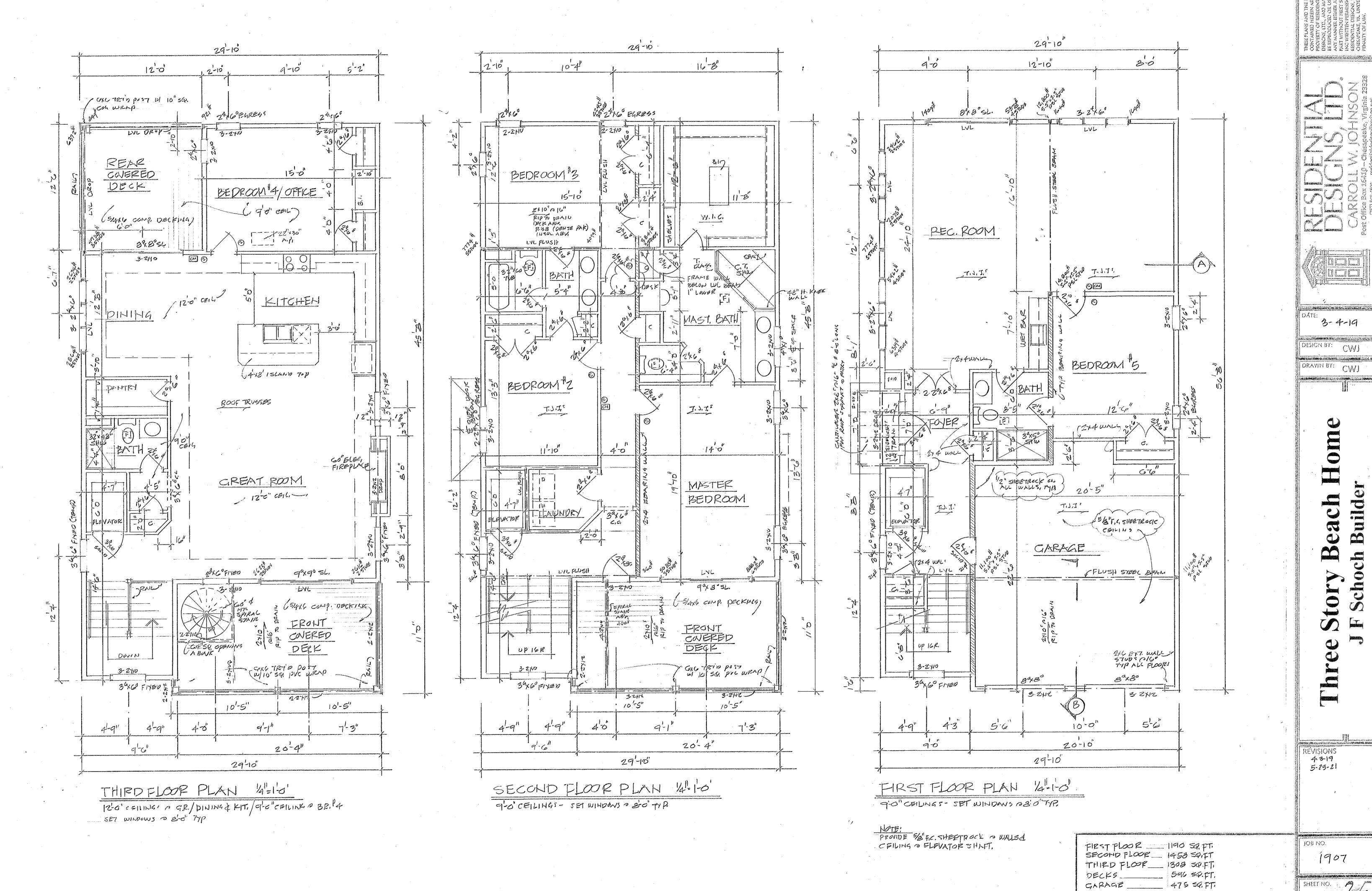
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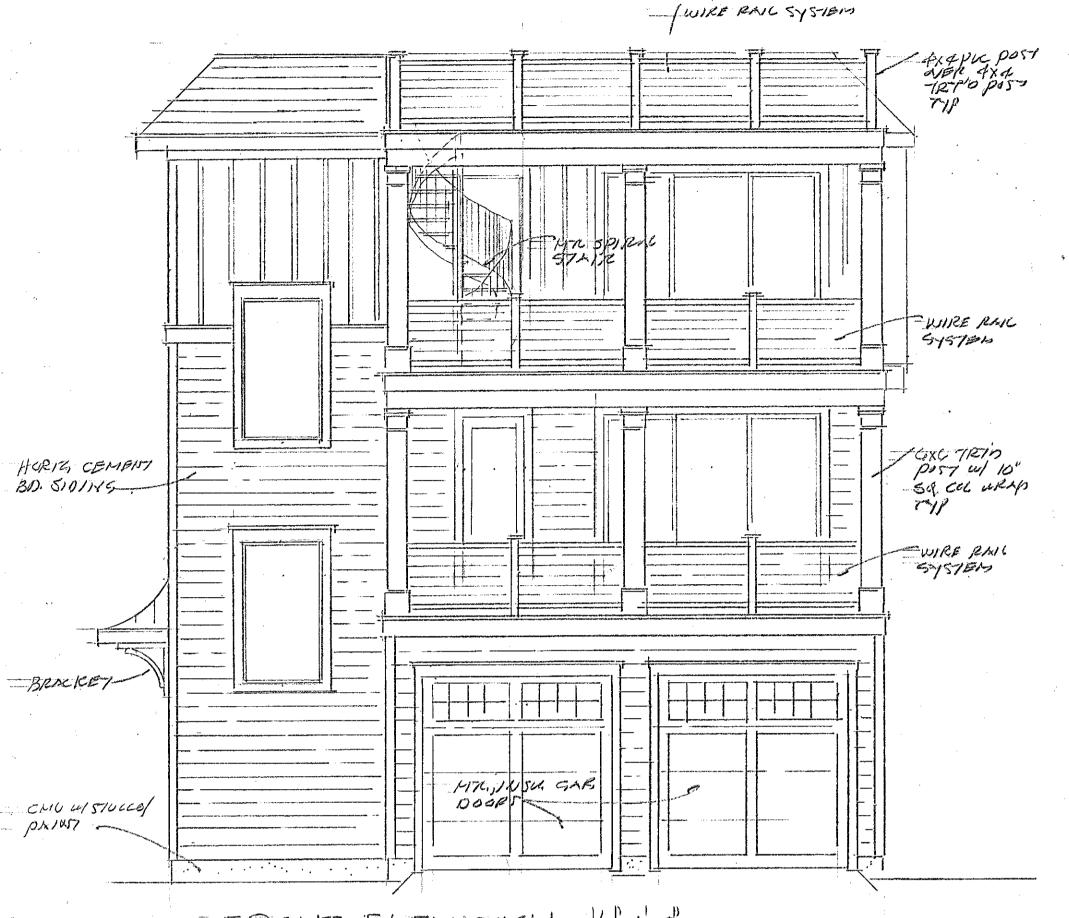
DESIGN BY: CWJ

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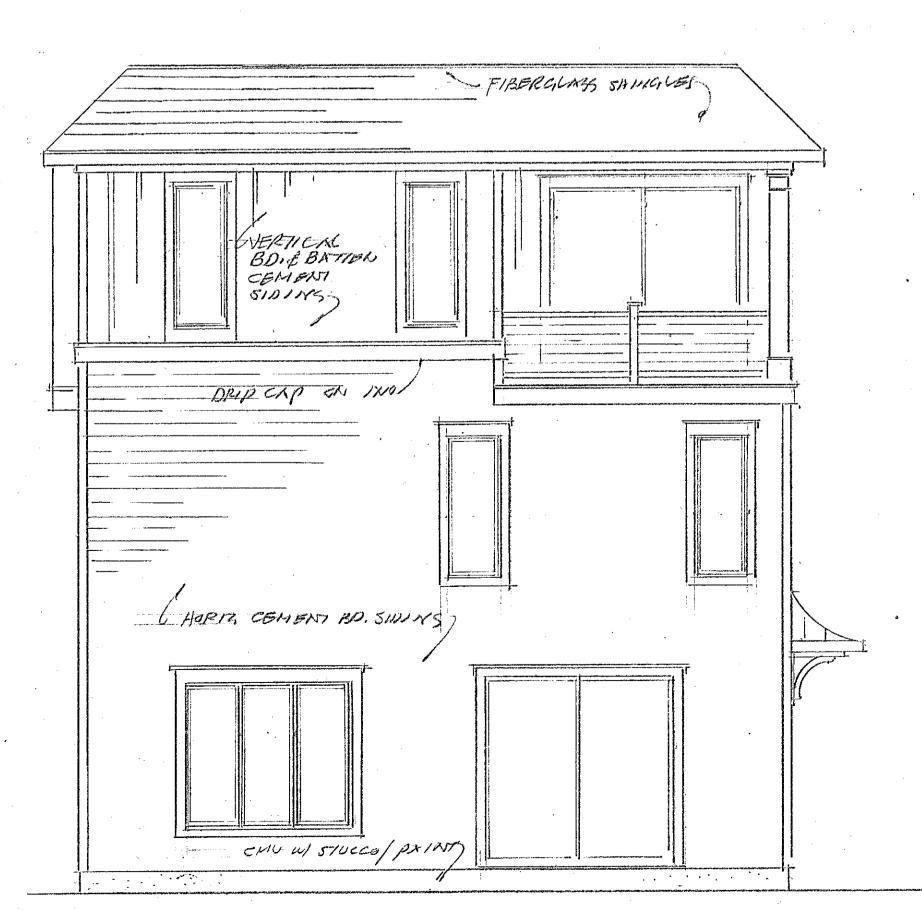
REVIȘIONS

1907

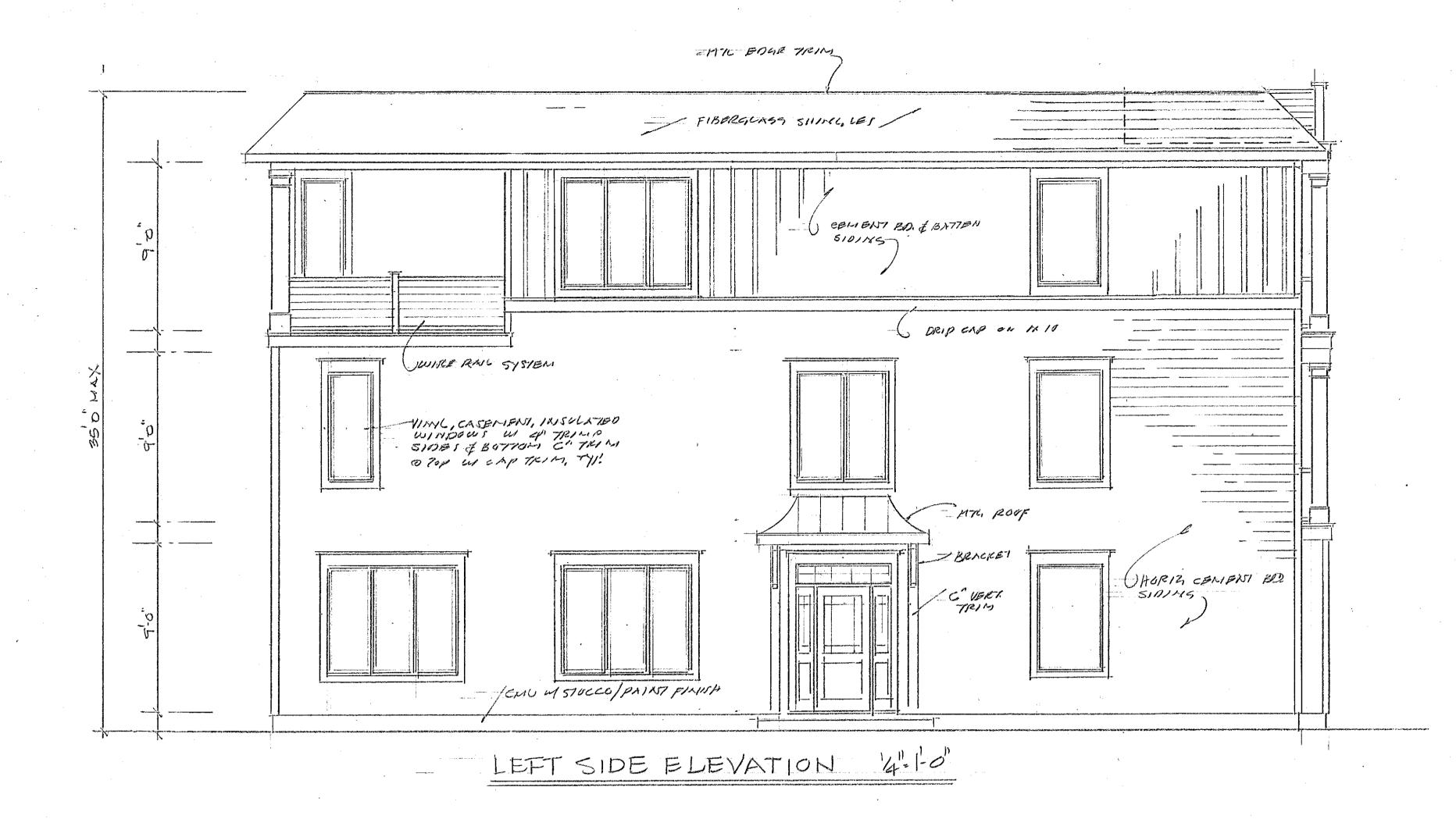


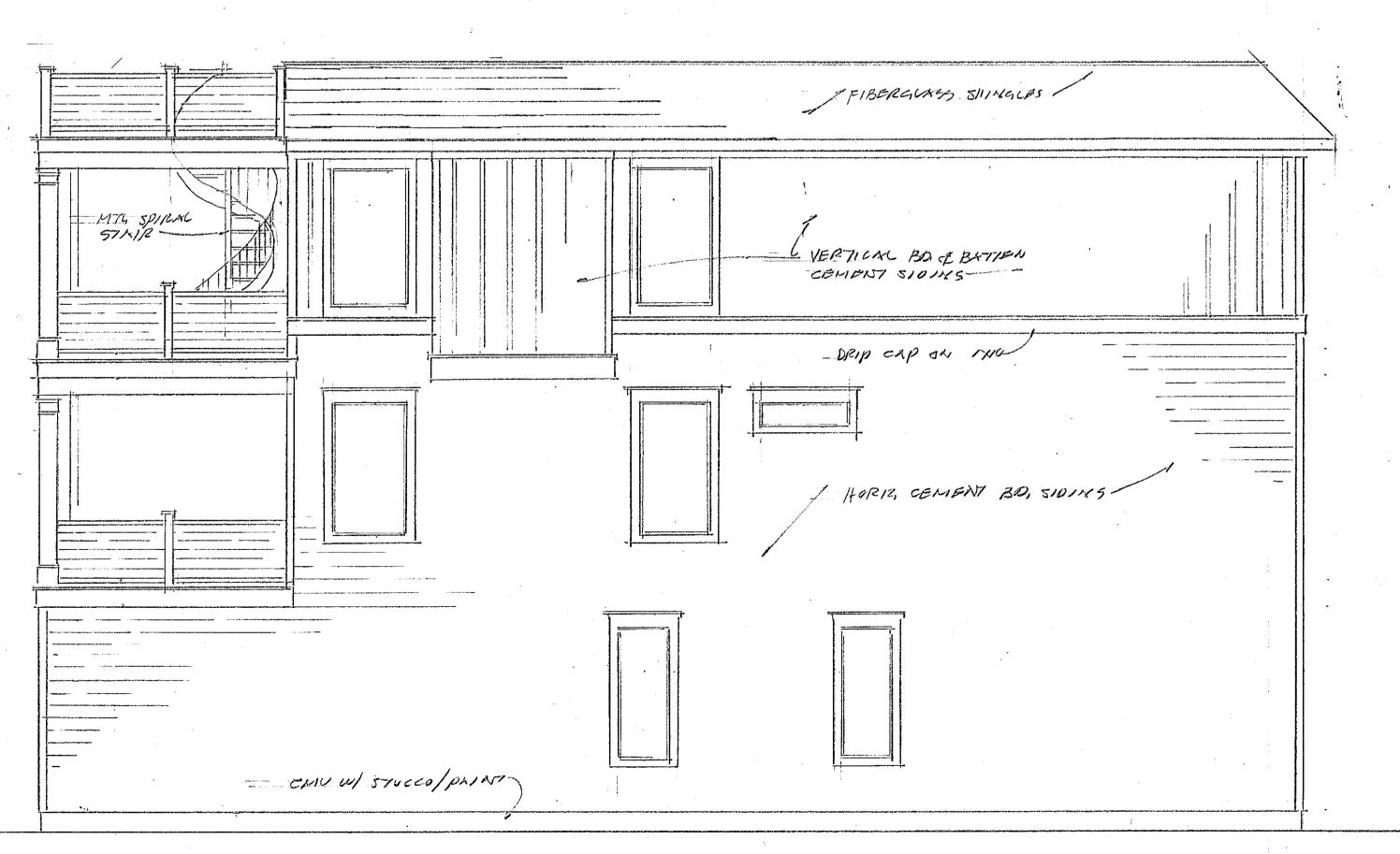


FRONT ELEVATION 4-1-0



REAR ELEVATION 41-1-0"





RIGHT SIDE ELEVATION 4"=10"

Tree Story Beach Home

THE STATE OF THE SECOND SECOND SECOND

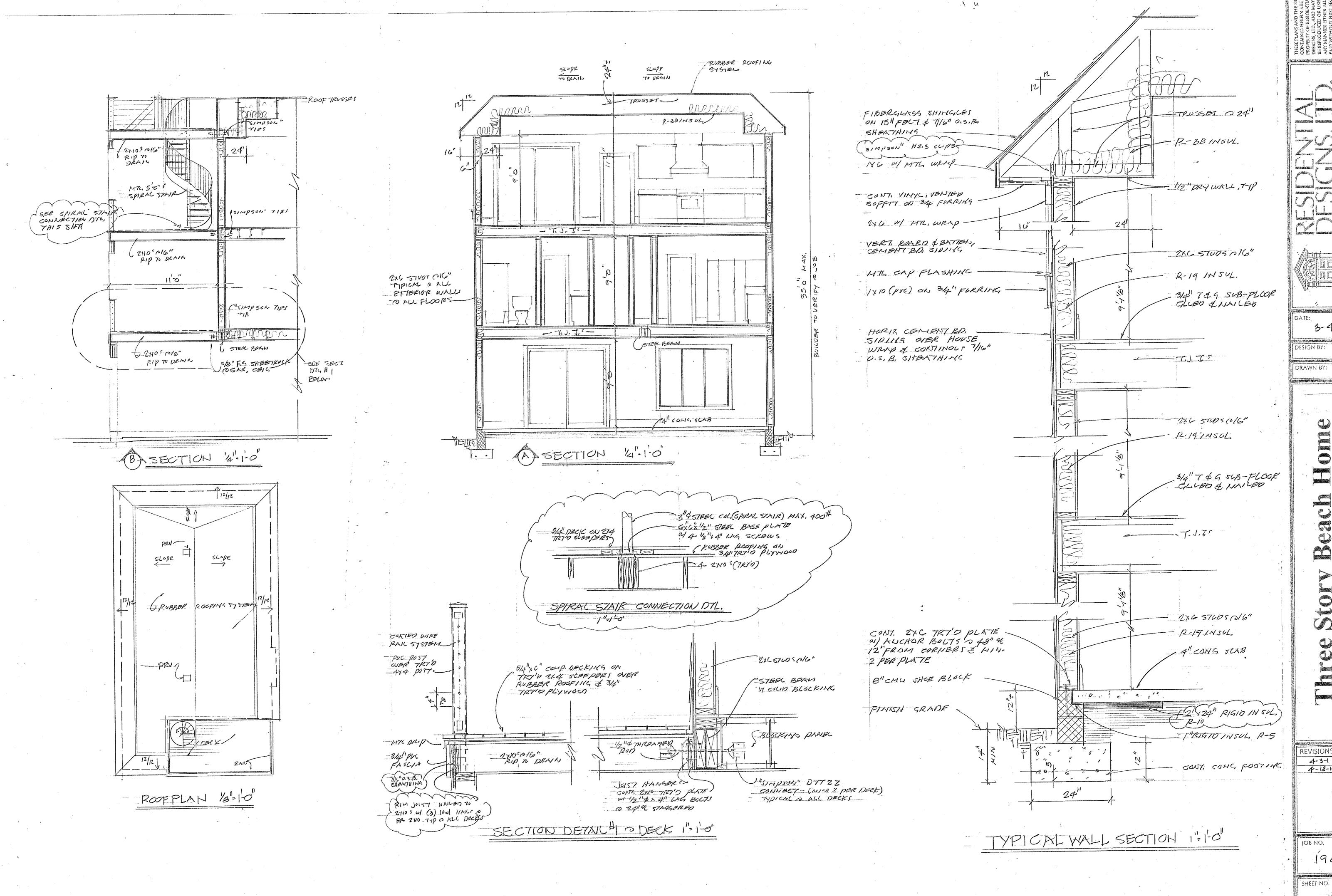
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DESIGN BY: CWJ

DRAWN BY: CWJ

REVISIONS

SHEET NO. 2



REVISIONS 4-3-19

1907

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	GENERAL NOTES				TABLE R602.3(1) FASTENING SCHEDULE	SPACING AND LOCATION
1	Construction materials and installation shall comply with the 2015 edition of The International Residential Code and	A the second sec	ITEM	DESCRIPTION OF BUILDING ELEMENTS	OF FASTENER*.5,0  Roof  4-3d box (2 <sup>1</sup> / <sub>2</sub> "×0.113") or	SPACING TIME LOCATION
1.	any applicable regulations of the City.	istocki praje poslet tumik	1 12	Hocking between ceiling joists or railers to top p	3-8d common (2 <sup>1</sup> / <sub>2</sub> " × 0.131"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails	Yoe nail
2. 3.	This structure is designed for wind exposure B,130 MPH.  Buildings shall be use group R5 and type of construction shall be 5B.	Section in particular	2 (	ciling joists to top plate	4-8d box (2 <sup>1</sup> / <sub>2</sub> " × 0.113"); or 3-8d common (2 <sup>1</sup> / <sub>2</sub> " × 0.131"); or 3-10d box (3" × 0.128"); or	Per joist, toe nail
4.	Buildings shall be founded on undisturbed soil having a minimum bearing capacity of 1,500 psf.	TOTAL PLANTS	3	Ceiling joist not attached to parallel rafter, laps or outlitions (see Sections R802.3.1, R802.3.2 and	3-3" × 0.131" nails   4-10d box (3" × 0.128"); or   d Table	Face nail
<b>5</b> .	Soil conditions are the responsibility of the contractor.  Roof live load 20 # per sq. ft. / dead load 10 # per sq. ft.	A STATE OF THE PARTY OF THE PAR		R892.5.1(9)] Leiling Joist attached to parallet rafter (heet joint) fisce Sections R802.3.1 and R802.3.2 and Table	4-3" × 0.131" nails	Pace mill
6.	Floor live load 40 # per sq. ft. / dead load 10# per sq. ft. 30# per sq. ft. / dead load 10# per sq. ft (At sleeping areas.)	And the second second	4	Reconstructions Resolved and Resolved Reconstruction (Reconstruction) Reconstruction (Reconstruction) Reconstruction (Reconstruction) Resolved Reconstruction (Reconstruction) Re	4-10d box (3" × 0.128"); or	Face nail each rafter
7.	Attic live load 20# per sq. ft. / dead load 10 # per sq. ft.	A STATE OF THE PARTY OF THE PAR	5	rafter	4-3" × 0.131" nails 3-16d box nails (3 <sup>1</sup> / <sub>3</sub> " × 0.135"); or	2 to male on our side and I tre mil
3. 9.		e je jest je gan jest je je je	6 1	tafter or roof truss to plate	3-10d common nails (3" × 0.148"); o 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails	on opposite side of each rafter or trass <sup>i</sup>
	in the 2015 IRC. With the window open, there shall be a net free area of 5.7 sq. ft. for both tirst and second floor windows. Clear opening height shall be 24" and clear opening width shall be 20". All	And the second second second			4-16d ( $3^{1}/_{2}$ " × 0.135"); or 3-10d common ( $3^{1}/_{2}$ " × 0.148"); or 4-10d box ( $3$ " × 0.128"); or	Toe naîl
	egress window sills shall not be more than 44" above the floor. Window sills in dwelling units, where the opening of an	i destrucción de la propertie	7	toof rafters to ridge, valley or hip rafters or roof to minimum 2" ridge beam	rafter $\frac{4 \cdot 3'' \times 0.131'' \text{ nails}}{3 \cdot 160 \text{ box } 3^{1} I_{1}'' \times 0.135''); \text{ or}}$ $\frac{1}{2 \cdot 160 \text{ common } (3^{1} I_{2}'' \times 0.162''); \text{ or}}{2 \cdot 160 \text{ common } (3^{1} I_{2}'' \times 0.162''); \text{ or}}$	7.1.1.1
	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. Glazing	The State of the State of			3-10d box (3"×0.128"); or 3-3"×0.131" nails	End nail
,	between the floor and 24" shall be fixed or have openings through which a 4" diameter sphere cannot pass.  All windows shall be insulated, having a U value of minimum .35		8 5	flud to stud (not at braced wall panels)	16d common (3 <sup>1</sup> / <sub>2</sub> " × 0.162") 10d box (3" × 0.123"); or	24" o.c. face nail
11	Dimensions shown on floor plans are taken from outside face of sheathing to inside face of studs.		0 5	Stud to stud and abutting studs at intersecting wa	$3'' \times 0.131''$ nails $16d$ box $(3^{1}/_{2}'' \times 0.135'')$ ; or $3'' \times 0.131''$ nails	12" o.c. face pail
	. Contractor shall verify and check all notes and dimensions shown on plans before starting construction.  All concrete footings shall be 3,000 psi placed in virgin soil.	American Section 1975	,,,	(at braced wall panels)	16d common (3½" × 0.162") 16d common (3½" × 0.162")	16" o.c. face nail 16" o.c. each edge face nail
	. See tables R602.7(1) and R602.7(2) for allowable interior and exterior header and girder spans. Interior bearing walls			Built-up header (2" to 2" header with 1/2" spacer)	16d box (3 <sup>1</sup> / <sub>2</sub> " × 0.135") 5-8d box (2 <sup>1</sup> / <sub>2</sub> " × 0.113"); or 4-8d common (2 <sup>1</sup> / <sub>2</sub> " × 0.131"); or	12" o.c. each edge face nail  Toe nail
	for first and second floors are shaded. See plans for locations. These walls shall be constructed, framed and fire blocked as specified for exterior walls.		11	Continuous header to stud	4-10d box (3" × 0.128") 16d common (3½" × 0.162")	16" o.c. face nail
15	. Interior bearing walls for first and second floors are shaded. See plans for locations. These walls shall be constructed, framed and fire blocked as specified for exterior walls.		12	l'op plate to top plate	10d box (3" × 0.128"); or 3" × 0.131" nails 8-16d common (3\frac{1}{2}" × 0.162"); or	12" o.c. face nail
	. Maximum height of all 2x4 stud walls not to excel 10'-0".	7.00	13	Double top plate splice for SDCs A-D $_2$ with seismall line spacing $<25^\prime$	mic braced 12-16d box (3 <sup>1</sup> / <sub>2</sub> × 0.132 ); or 12-10d box (3 * 0.128 *); or 12-3" × 0.131 * nails	Face nail on each side of end joint (minimum 24" lap splice length
17	. All stud walls to have a min. 1 ½" dbl. top plate and a single 1 ½" bottom plate.  Stud walls bearing on concrete slabs to have treated bottom plates.		]	Double top plate splice SDCs $D_0$ , $D_1$ , or $D_2$ ; and $U$ line spacing $\geq 25'$		each side of end joint)
	. All floor, cailing, studs and rafter material to be #2 Southern Pine or better.		ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER <sup>2, b, c</sup> 16d common (3 <sup>1</sup> I <sub>2</sub> " × 0.162")	SPACING AND LOCATION  16" o.c. face nail
	. Provide dbl. joist below all parallel walls. . All exterior plywood sheathing to be laid vertically with no horizontal joints within 12" of floor or ceiling except at		14	Bottom plate to joist, rim joist, band joist or blocking (not at braced wall panels)	16d box (3 <sup>1</sup> / <sub>2</sub> "×0,135"); or 3"×0,131" nails	12" o.e. face nail
	rafter bearing and at first floor of slab construction. Sheathing at gable ends to overlap top plate at ceiling line a min. of . 12".	The second second	15	Bottom plate to joist, rim joist, band joist or blocking (at braced wall panel)	3-16d box ( $3^{1}I_{2}^{**} \times 0.135^{**}$ ); or 2-16d common ( $3^{1}I_{2}^{**} \times 0.162^{**}$ ); or 4-3" $\times 0.131^{**}$ nails	2 each 16" o.c. face mil 4 each 16" o.c. face mil
21	. This structure shall be fully sheathed with ½" plywood and will be fastened to study as per table				4-8d box (2 <sup>1</sup> / <sub>3</sub> " × 0.113"); or 3-16d box (3 <sup>1</sup> / <sub>2</sub> " × 0.135"); or 4-8d common (2 <sup>1</sup> / <sub>3</sub> " × 0.131"); or	Toe nail
22	R602.3(1).  Framing at braced wall lines. A load path for lateral forces shall be provided between floor framing and braced wall	Con Action	16	Top or bottom plate to stud	4-10d box (3" × 0.128"); or 4-3" × 0.131" nails 3-16d box (3½" × 0.135"); or	
	panels tocated 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	a section and the section and			2-16d common (3½"×0.162"); or 3-10d box (3"×0.128"); or 3-3"×0.131" nails	End nail
	braced wall lines below, blocking shall be provided over and in line with the braced wall panels. Where joist are	Control Control	17	Top plates, laps at corners and intersections	3-10d box (3"×0.128"); or 2-16d common (3½"×0.162"); or 3-3"×0.131" nails	Face nuil
	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).		18	1" brace to each stud and plate	3-8d box (2½" × 0.113"); or 2-8d common (2½" × 0.131"); or 2-10d box (3" × 0.128"); or	Face nail
20	The end of wood joist, beams or girders shall have not less than 1 ½" of bearing and not less than 3" of bearing on masonry, except where supported by a 1 x 4 ribbon strip and nailed to an adjacent stud or by an approved metal hanger.	A Committee of the Comm			2 staples 1 <sup>1</sup> / <sub>4</sub> "  3-8d box (2 <sup>1</sup> / <sub>2</sub> " × 0.113"); or 2-8d common (2 <sup>1</sup> / <sub>2</sub> " × 0.131"); or	
24	Fasteners for pressure treated wood or fire treated wood shall be galvanized or	-	19	1" x 6" sheathing to each bearing	2-10d box (3" × 0.128"); or 2 staples, 1" crown, 16 ga., 1 <sup>3</sup> / <sub>4</sub> " long	Face nail
25	stainless steel.  Anchor bolts at slab construction shall be ½" dia. At 6'-0" o/e with a min. of two bolts per plate section with one bolt	elitari ishtaqi ishta		· v	3-8d box $(2^{1}4_{2}" \times 0.113")$ ; or 3-8d common $(2^{1}4_{2}" \times 0.131")$ ; or 3-10d box $(3" \times 0.128")$ ; or 3 staples, 1" crown, 16 ga., $1^{1}4_{4}$ " long	
	not more than 12" from corner or less than 7 bolt diameters from end of plate section. Anchor bolts shall extend into masonry a minimum of 7".		20	1" x 8" and wider sheathing to each bearing	Wider than 1" × 8" 4-8d box (2'/," × 0.113"); or	Pace nait
20	5. CMU piers at foundations used to support girders shall not be greater in height than four times their least dimension.	TO THE PERSON NAMED IN			3-8d common (2½" × 0.131"); or 3-10d box (3" × 0.128"); or 4 staples, 1" crown, 16 ga., 1½" long	
	Unless they are filled solid with type M, S or N mortar. Hollow piers shall be capped with a 4" solid CMU or filled solid with concrete or mortar.				#Joor 4-&d box (2 <sup>1</sup> / <sub>2</sub> " × 0.113"); or 3-&d common (2 <sup>1</sup> / <sub>2</sub> " × 0.131"); or	Toe nait
21	The 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		21	Joist to sill, top plate or girder	3-10d box (3" × 0.128"); or 3-3" × 0.131" nails 8d box (2 <sup>1</sup> / <sub>2</sub> " × 0.113")	4" o.e. toe nail
	construction in the following locations:	And the second	22	Rim joist, band joist or blocking to sill or top plate (roof applications also)	8d common (2 <sup>1</sup> / <sub>2</sub> "×0.131"); or 10d box (3"×0.128"); or 3"×0.131" pails	6" o.c. toe nail
	<ul><li>a. Concealed spaces of a stud wall, including furred spaces.</li><li>b. Vertically at ceiling and floor levels and horizontally at intervals not exceeding 10°-0°.</li></ul>	A CONTRACTOR OF THE PARTY OF TH	23	1"×6" subfloor or less to each joist	3-8d box (2½" × 0.113"); or 2-8d common (2½" × 0.131"); or	Face nail
	c. Dropped ceilings and soffits.	CHEST MARKET			3-10d box (3" × 0.128"); or 2 staples, 1" crown, 16 ga., 1½," long  NUMBER AND TYPE OF FASTENERS, 5.5.	SPACING AND LOCATION
	<ul><li>d. Stair stringers at top and bottom of the run.</li><li>e. Around vents, pipes and duets at ceiling and thoor levels with approved materials.</li></ul>	The second	ITEM		Floor    3-16d box (3 <sup>1</sup> /, " × 0.135"); or	Blind and face nail
25	f. Cornices of a two family dwelling at a line of dwelling unit separation.  3. When there is unusable space both above and below the concealed space of a floor/ceiling assembly, draft stops shall	and the second	24	2" subfloor to jöist or girder 2" planks (plank & beam—floor & roof)	2-16d common (3½," × 0.162")  3-16d box (3½," × 0.135"); or  2-16d common (3½," × 0.162")	At each bearing, face nail
	be installed so that the area concealed does not exceed 1,000 sq. ft.	the distribution	26	Band or rim joist to joist	3-16d common (3 <sup>1</sup> / <sub>2</sub> " × 0.162") 4-10 box (3" × 0.128"), or 4-3" × 0.131" nails; or	End nail
2!	O. 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	Control of the second			4-3" × 14 ga. staples, $\eta_{16}$ " crown  20d common (4" × 0.192"); or	Nail each layer as follows; 32" o.e.
rsi	the acceptance criteria of ANSI/DASMA 108.  Noof areas where pitches are from 4/12 to 2/12 shall have two layers of 15# felt. Asphalt shingles shall be installed in	The State of the S	27	Built-up girders and beams, 2-inch lumber	10d box (3" × 0.123"); or 3" × 0.131" naits	24" o.c. face nail at top and bottom staggered on opposite sides
~,	accordance with Section R905.2.6.	TOTAL CONT.	21	layers	And: 2-20d common (4"×0.192"); or 3-10d box (3"×0.128"); or	Face nail at ends and at each splice
	<ol> <li>Floor and roof truss plans and details to be provided by truss supplier.</li> <li>Any wall penetrations to mechanical equipment in garage shall be fire stopped as per code.</li> </ol>	A MARKET			3-3"×0.131" nails 4-16d box (3 <sup>1</sup> / <sub>2</sub> " × 0.135"); or 3-16d common (3 <sup>1</sup> / <sub>1</sub> "× 0.162"); or	A) mah tida mangan Francis
33	3. If garage finish floor is below flood plain, flood vents shall be installed as per manufacturer's instructions.  1. Carage ceilings to be finished with one layer of 5/3" Type X sheetrock. Carage walls to be finished with minimum ½"	The state of the s	23	Ledger strip supporting joists or rafters	4-10d box (3" × 0.128"); or 4-3" × 9.131" nails 2-10d (3" × 0.128")	At each joist or rafter, face nail  Each end, toe nail
	reg. sheetrock.	CONTRACTOR CONTRACTOR	17EM	Bridging to joist  DESCRIPTION	LAbe of Parieness of Minness and Friend (A. 2017a.)	SPACING OF FASTENERS  Edgus Intermediate Supports** (Inches)* (Inches)
	5. Heating, cooling, electrical and plumbing shall be designed and installed to comply with all applicable codes. 5. All showers and tubs with showers to have non-absorbent wall surfaces. This non-absorbent surface shall extend to a	A CONTRACTOR OF THE PARTY OF TH		Of Doisping seamanno	id interior well shealthing to framing and particlabour wood structural panel #derior wall shouthing to wall	Virginary 1
	height of not less than 6'-0" above the floor.	West Control of the C	30	2f <sub>3</sub> " = 1f <sub>2</sub> "	6d common $(2'' \times 0.113'')$ nail (subfloor, wall)' 8d common $(2^{1}I_{2}'' \times 0.131'')$ nail (roof)	6 12 <sup>f</sup>
3	1. 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	TO STATE OF THE STATE OF	31		8d common nail (2½" × 0.131")   10d common (3" × 0.148") nail; or   8d (2½" × 0.131") deformed nail	6 12
21	more risers. The illumination of exterior stairways shall be controlled from inside the dwelling unit.  3. All exterior doors from heated spaces to be insulated.		33	1/2" structural cellulosic fiberboard	Other wall sheathing!	3 6
	). Smoke detectors shall be installed in and adjacent to all sleeping areas as per code and all wired together. Provide	Control of the last	34	sheathing  25/ <sub>32</sub> " structural cellulosic fiberboard sheathing	diameter, or 1" crown staple 16 ga., $1^{1}I_{4}$ " long $1^{3}I_{4}$ " galvenized roofing nail, $7I_{16}$ " head diameter, or 1" crown staple 16 ga., $1^{1}I_{4}$ " long	3 6
1/2	battery backup.  2. Provide a minimum of 3'x3' landing outside of all exterior doors where there are more than three risers required.	necottacents.	35	1/2" gypsum sheathing <sup>3</sup>	1½" galvanized rooling nall; staple galvanized 1½" long; 1½" screws, Type W or S 1¾" galvanized rooling nall; staple galvanized	
	Landing not required in garage area.  1. Perimeter insulation at concrete slabs to be a minimum R-10 and 24" wide.	Total Superior California	36	*	19/4" long; 19/4" screws, Type W or S   panels, combination applicar underlayment to frami	ng
	2. Weep-holes shall be provided in outside width of masonry walls at a maximum spacing of 33" on center. Weep-holes	- coursessions	. 37		6d deformed (2" × 0.120") nail; or 8d common (2 $^{1}l_{2}$ " × 0.131") nail 3d common (2 $^{1}l_{2}$ " × 0.131") nail; or	6 12
4]	shall not be less than 3/16" in diameter. Weep-holes shall be located immediately above the flashing.  3. All metal, pre-fabricated gas fireplaces shall be installed as per manufacturer's instructions.	- Antibolistic Contraction	38	$\frac{7!_3"-1"}{1!_4"-1!_4"}$	8d deformed (2½ × 0.120") nail 10d common (3" × 0.143") nail; or 8d deformed (2½," × 0.120") nail	6 - 12
4) :	1. All wood used in open decks shall be salt treated.	- The table of the table of the table of the table of tab	For S	1: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 mile per he	our = 0.447 m/s; 1 ksi = 6.895 MPa.	de de la
2	5. An approved carbon monoxide alarm shall be installed outside of each separate sleeping area in the immediate vicinity of the bedrooms.	ACCULTURED THEORY	a	vails are smooth-common, box or deformed shanks ex- verage bending yield strengths as shown; 80 ksi for si- tof larger than 0.177 inch, and 100 ksi for shank diame taples are 16 gage wire and have a minimum 7/15-inch	xcept where otherwise stated. Naits used for framing a hank diameter of 0.192 inch (20d common nail), 90 ksi otters of 0.142 inch or less. on diameter grown width.	and sneaming connections small have minimum i for shank diameters larger than 0,142 inch but
<u>4</u> (	5. A fire extinguisher having a rating of 2-A: 10-B: C or an approved equivalent type of fire extinguisher shall be installed in the kitchen area.	- Commence	c. î d. i	dails shall be spaced at not more than 6 inches on centuriour-foot by 8-foot or 4-foot by 9-foot panels shall be a	er at all supports where spans are 48 inches or greater. applied vertically.  based on Table R602.3(2).	
4	1. Access panels to the attic through the ceiling shall be insulated same as the ceiling and have weather stripping at all	Transfer of the Control	f. \ i	Where the ultimate design wind speed is 130 mph or leaches on center. Where the ultimate design wind speed to be below on cross for uningound 3 high distance	ess, nails for attaching wood structural panel roof sheatled is greater than 130 mph, nails for attaching panel research than 130 mph, nails for attaching panel research walls; and 4 inches	oor sheathing to intermediate supports saidt be on center to gable end wall framing.
	edges.  Access panels to the attic through the walls shall be insulated same as the wall and have weather stripping at all edges.	The section of the se	g. ( h. 3	Typsum sheathing shall conform to ASTM C1396 and spacing of fasteners on floor sheathing panel edges applications of fasteners on most sheathing ward address an	shall be installed in accordance with GA 253. Fiberior plies to panel edges supported by framing members and plies to panel edges supported by framing members as mbers need not be provided except as required by other	ard sneaming smar contoins to 1/5 (1/4 C205).  I required blocking and at floor perimeters only, and required blocking. Blocking of roof or floor.
	All roof shingles used in a wind zone of 110 mph or greater are required to be classified using ASTM D3161 CLASS  For ASTM D7158 CLASS G or Ft. R905.2.4.1.		5 : X	apported by framing members or solid blocking.	g joist in accordance with this schedule, provide two toe nedule. The toe nail on the opposite side of the rafter sh	nails on one side of the rafter and toe nails from

51. All ducts, air handlers, filter boxes and building cavities used as ducts shall be sealed. Joints and seams shall comply

knee walls, ceilings, access / hatches and required fenestration U-factors. M1102.1. Minimum U-factor or 0.35.

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 thormo envelope must be maintained including all walls, floors,

50. All rafter uplift connectors must be installed per manufacturer installation instructions.

			3-3" × 0.131" nails 4-8d box (2 <sup>1</sup> / <sub>2</sub> " × 0.113"); or 3-8d common (2 <sup>1</sup> / <sub>2</sub> " × 0.131"); or	Per injet too puil					
	Culling joists to top plate	· · · · · · · · · · · · · · · · · · ·	3-10d box (3" × 0.128"); or 3-3" × 0.131" nails	Per joist, toe nail					
3	Ceiling joist not attached to parallel rafter, laps to partitions [see Sections R802.3.1; R802.3.2 at R802.5.1(9)]	over nd Table	4-10d box (3" × 0.128"); or 3-16d common (3",2" × 0.162"); or 4-3" × 0.131" nails	Face nail					
	R802.5.1(9)] Ceiling joist attached to parallel rafter (heel join [see Sections R302.3.1 and R802.3.2 and Tab		4-3" × 0.131" nails Table R802.5.2	Face nail					
-	R802.5.1(9)]  Collar tie to rafter, face nail or $1\frac{1}{4}$ " × 20 ga. ridge		4-10d box (3"× 0.128"); or	Face nail each rafter					
š	rafter		3-10d common (3" × 0.148"); or 4-3" × 0.131" nails 3-16d box nails (3½" × 0.135"); or	2 toe mills on one side and 1 toe mil					
5	Rafter or roof truss to plate		3-10d common nails (3" × 0.148"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails	on opposite side of each ratter or					
			4-16d ( $3^{1}l_{2}$ " × 0.135"); or 3-10d common ( $3^{1}l_{2}$ " × 0.148"); or 4-10d box ( $3$ " × 0.128"); or	Toe n	ail				
,	Roof rafters to ridge, valley or hip rafters or roo to minimum 2" ridge beam	f rafter	$\frac{3-3" \times 0.131"}{3-160 \log 3! l_1" \times 0.135"}$ ; or $\frac{3! l_2" \times 0.162"}{3-160 \operatorname{common} (3! l_2" \times 0.162")}$ ; or	End nail					
		74 To 7	3-10d box (3" × 0.123"); or 3-3" × 0.131" nails Wall						
	Stud to stud (not at braced wall panels)		16d common (3 <sup>1</sup> / <sub>2</sub> " × 0.162") 10d box (3" × 0.128"); or 3" × 0.431" nails	24" o.c. fa 16" o.c. fa					
_	Stud to stud and abutting studs at intersecting w	all corners	16d box (3 <sup>1</sup> / <sub>2</sub> " × 0.135"); or 3" × 0.131" nails	12" o.e. face nail					
_	(at braced wall panels)		16d common (3 <sup>1</sup> / <sub>2</sub> " × 0.162") 16d common (3 <sup>1</sup> / <sub>2</sub> " × 0.162")	16" o.c. face nail 16" o.c. each edge face nail					
0	Built-up header (2" to 2" header with 1/2" spacer	) 	16d box (3½"×0.135") 5-8d box (2½"×0.113"); or	12" o.c. eách e	dge face nail				
L	Continuous header to stud		4-8d common (2 <sup>1</sup> / <sub>2</sub> " × 0.131"); or 4-18d box (3" × 0.128") 16d common (3 <sup>1</sup> / <sub>2</sub> " × 0.162")	Toe n					
2	Top plate to top plate		10d box (3" × 0.128"); or 3" × 0.131" naifs	10° b.c. fa					
-	Double top plate splice for SDCs A-D <sub>2</sub> with sets wall line spacing < 25'	smic braced	8-16d common (3 <sup>1</sup> / <sub>2</sub> " × 0.162"); or	Pace nail on each s	ide of end joint				
3	Double top plate splice SDCs $D_0$ , $D_1$ , or $D_2$ ; and	braced wall	12-3" × 0.131" nails	(minimum 24" lap each side of end joi	splice length				
EM.	line spacing ≥ 25'  DESCRIPTION OF BUILDING ELEMENTS		MBER AND TYPE OF FASTENERS. F.	SPACING AN					
EM 4	Bottom plate to joist, rim joist, band joist or	16d conm	non (3 <sup>1</sup> / <sub>2</sub> " × 0.162") 3 <sup>1</sup> / <sub>2</sub> " × 0.135"); or	16" o.c. 1					
	blocking (not at braced wall panels)	3"×0.13	1" nails c(3 <sup>1</sup> L" × 0.135"); or	3 each 16" o	.e. face nail				
5	Bottom plate to joist, rim joist, band joist or blocking (at braced wall panel)	2-16d con 4-3" x 0.1	nmon $(3\frac{1}{2}" \times 0.162")$ ; or $(31" \text{ nails})$ $(2\frac{1}{2}" \times 0.113")$ ; or	2 each 16" o 4 each 16" o					
		3-16d box 4-8d com	(2½" × 0.143"); or c (3½" × 0.135"); or mon (2½" × 0.131"); or c (3" × 0.128"); or	Toe nail					
6	Top or bottom plate to stud	4-3" × 0.1	$(31'')$ nails $(31'_4'' \times 0.135'')$ ; or amon $(31'_4'' \times 0.162'')$ ; or	End nail					
		3-10d box 3-3" × 0.	x (3" × 0.128"); or 131" nails x (3" × 0.128"); or						
17	Top plates, laps at comers and intersections	2-16d cor 3-3" × 0.	mmon (3 <sup>1</sup> / <sub>2</sub> " × 0.162"); or 134" nails (2 <sup>1</sup> / <sub>4</sub> " × 0.113"); or	Face	nail				
18	i" brace to each stud and plate	2-8d com 2-10d box 2 staples	meon $(2^{1}/_{2}^{2} \times 0.131^{n})$ ; or $\times (3^{n} \times 0.128^{n})$ ; or $1^{1}/_{4}^{2}$	Face	nail				
19	1"×6" sheathing to each bearing	2-8d com 2-10d bo	$(2V_2'' \times 0.113'')$ ; or imon $(2V_2'' \times 0.131'')$ ; or $(2V_2'' \times 0.128'')$ ; or $(3'' \times 0.128'')$ ; or $(3'' \times 0.128'')$ ; or	Pace nail					
	¥	2 staples, 3-8d box	, 1" crown, 16 ga., 13/ <sub>4</sub> " long (21/ <sub>2</sub> "×0.113"); or mon (21/ <sub>2</sub> "×0.131"); or						
		3-10d bo 3 staples,	x (3" × 0.128"); or , 1" crown, 16 ga., 174" long	± £ cover	e nail				
20	1" x 8" and wider sheathing to each bearing	4-8d box	an $1'' \times 8''$ $(2')_{2}'' \times 0.113'')$ ; or amon $(2)_{2}'' \times 0.131'')$ ; or	Tace nan					
		3-10d bo	minon (27 <sub>2</sub> × 0.131 ), of x (3" × 0.128"); or , 1" crown, 16 ga., 1 <sup>1</sup> / <sub>4</sub> " long						
21	Joist to sill, top plate or girder	3-8d con	(2 <sup>1</sup> / <sub>2</sub> "×0.113"); or mon (2 <sup>1</sup> / <sub>2</sub> "×0.131"); or	Toe	: nail				
1		3-3" × 0.	x (3" × 0.128"); or .131" nails 2 <sup>1</sup> / <sub>2</sub> " × 0.113")	4" o.e.	toe nail				
22	Rim joist, band joist or blocking to sill or top plate (roof applications also)	10d box 3"×0.13		6" o.c.	toe nail				
23	1"×6" subfloor or less to each joist	2-8d con 3-10d bo	(2½"×0.113"); or muon (2½"×0.131"); or ox (3"×0.128"); or o, 1" crown, 16 ga., 1½" long	Fac	e nail				
EA	DESCRIPTION OF BUILDING SLEMENTS		### ##################################	SPACING AND	LOCATION				
24	2" subfloor to jüist or girder	2-16d cor	c (3 <sup>1</sup> / <sub>2</sub> " × 0.135"); or ninon (3 <sup>1</sup> / <sub>2</sub> " × 0.162")	Blind and	face nail				
25	2" planks (plank & beam—floor & roof)	3-16d box 2-16d cor	c (3½" × 0.135"); or minon (3½" × 0.162")	At each beari	ng, face nail				
26	Band or rim joist to joist	4-10 box 4-3" x 0.1	mmon (3 <sup>1</sup> / <sub>2</sub> " × 0.162") (3" × 0.123"), or 131" nalls; o <u>r</u>	End nail					
		4-3" x 14	ga. staples, 7/16" crown tion (4" × 0.192"); or	Nail each layer as f	öllows; 32" o.c.				
	Built-up girders and beams, 2-inch lumber		(3" x 0.123"); or	24" o.c. face nail at top and bottom staggered on opposite sides					
27	layers	And: 2-20d cor	mmon (4"×0.192"); or	Face nall at ends ar					
		3-3" × 0.	x (3" × 0.128"); or 131" nails x (3 <sup>1</sup> / <sub>2</sub> " × 0.135"); or		_				
23	Ledger strip supporting joists or rafters	3-16d cor 4-10d box	mmon (3½"× 0.162"); or x (3"× 0.128"); or 131" nalls	At each joist or rafter, face nail					
29			2-10d (3" × 0.128")	Each end					
ľEi	Or Building Estimates		NUMBER AND	Edges (Inches) <sup>a</sup>	(Inches)				
_	[see Table 1992.3(3) to	6d comm	all sheathing to framing and particlebourd tural panel <i>Aderlor</i> wall sheathing to wall from (2"×0.113") nail (subfloor, wall)	wall sheathing to frami raming] 6	ing				
30 31	9 4	8d comm	non $(2^{1}/_{2}" \times 0.131")$ nall (roof) non nail $(2^{1}/_{2}" \times 0.131")$	6	12 <sup>r</sup>				
32		10d com 8d (2 <sup>1</sup> / <sub>2</sub> "	mon (3" × 0.148") nail; or × 0.131") deformed nail	6	12				
33	'l <sub>2</sub> " structural cellulosic fiberboard   sheathing	1 <sup>1</sup> / <sub>2</sub> " galv diameter	er wail sheathing <sup>a</sup> vanized roofing nail, <sup>7</sup> / <sub>15</sub> " head , or 1" crown staple 16 ga., 1 <sup>1</sup> / <sub>4</sub> " long	3	6				
34	25/ "steucheal cellulasic	1³¼" gale ter, or 1"	vanized roofing nail, $\eta_{16}$ " head diametrown staple 16 ga., $1^{1}I_{4}$ " long	3	6				
		11/2" long	vanized roofing nail; staple galvanized, g; 1 <sup>1</sup> / <sub>4</sub> " screws, Type W or S		7				
35		$1^5 I_3^{\prime\prime\prime}$ long	vanized roofleg nail; staple galvanized, $y$ ; $1^{3}/_{8}$ " screws, Type W or S ablination subfloor underlayment to framin		7				
35	1		med (2" × 0.120") nail; or	6	12				
		6d defor	$non (2^{1}/2^{n} \times 0.131^{n})$ nail						
36	7 3/4" and less	8d comm 8d comm 8d defor	non $(2^{1}I_{2}^{"} \times 0.131")$ nuil; or med $(2^{1}I_{2}^{"} \times 0.120")$ nuil	6	12				
30	$J = \frac{3}{4}J_{3}$ and less $J_{3}J_{3} = 1$	8d comm 8d comm 8d defor 10d com 8d defor	non $(2^{1}I_{2}^{"} \times 0.131^{"})$ nail; or med $(2^{1}I_{2}^{"} \times 0.120^{"})$ nail non $(3^{"} \times 0.143^{"})$ nail; or med $(2^{1}I_{2}^{"} \times 0.120^{"})$ nail	6	. 12				

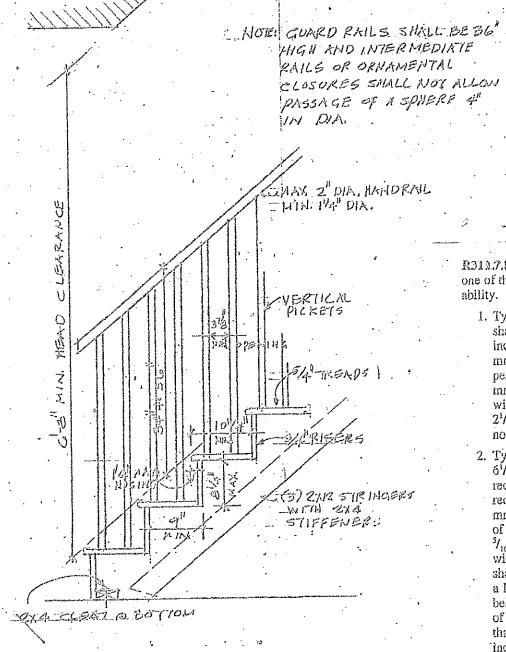
Header Insulation; Gaps in headers must be insulated to a minimum of R-3.

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

Size	Common (menosy 24/0 24/0 24/16 24/16		a i	NOMINAL PANEL THIOKNESS: (inches)						Euges (inches o.c.) (inches			Fleid Wind a				
(2.0" × 0.113 8d Commo (2.5" × 0.131							16 16 24		6			12 140 12 170 12 140		70			
For SI: 4 inch = 25  2. Panel strength as panel strength to panel	ds parallel ds perpend	or perpe iicular te	endicu suppe	lac to su ortą.	pports.					ig with s		paced it	iore th		iches o	n center	sirali
accordance with b. Wood structural o.c. or 24 o.c. st more than 16 fac	Section Re panels with all be pen	502,10. h span r nitted as	utings	of Wall	-16 or	: WaH-2	4 shaff t	be pein	itted a	s an alte	male t	o panel	s with:	a 24/0 i	span rat	ting. Ply	wood - 1
								71 F 41			*						
THICKRESS (inch)				LOWA:	eré s	enne.	FOR F		CLES	OAHD		ST		ACING es)			
$\frac{\frac{3}{l_g}}{\frac{1}{l_2}}$ For SI: 1 inch = 25	Language			Exterior Exterior				YAR	311 3101	16 16	med to	studs		AAIM	en sidir	ng Is nai	
Wall sheathing names. All panel s	ot exposed															at four p	anel (
umixoM)	m spans	Gi for Do	HDEF HDEF	t SPAN Fir-lar	IS* AN ch, He	ID HE/ m-fir,	ADER	ern Pir	3º FOÈ 10 and	i EXTE I Spruc	e-pin	e-fir <sup>b</sup> a	nd rec	ALLS Juired	numb	er of ja	ck st
GIRDERS AND HEADERS SUPPORTING	SIZE	113		2′	30 24 38			10				39		1:		24	
	1-2 × 6 1-2 × 8 1-2 × 10	3pan' 4-0 5-1 6-0	NJ <sup>d</sup> 1 2 2	3-1 3-1 4-8	NJ <sup>d</sup> 2 2 2	Span' 2-7 3-3 3-11	2 2 2	3-5 4-4 5-2	NJ <sup>d</sup> 1 2 2	3-4 4-0	N.J <sup>d</sup> 2 2 2	2-3 2-10 3-4	NJ <sup>d</sup> 2 2 2	3-0 3-10 4-7	2 2	3pan' 2-4 3-0 3-6	2 2 3
 	1-2×12 2-2×1 2-2×6	7-1 4-0	2	5-5 3-1 4-7	2 i	4-7 2-7 3-10	3 - 1- 1	6-1 3-5 5-1	2 1	4-8 2-7 3-11	3 1	3-11 2-2 3-3	3	5-5 3-0 4-6	2 i	4-2 2-4 3-6	3 1 2
Roof and celling	2-2 × 8 2-2 × 10 2-2 × 12	7-7 9-0 10-7	1 1 2	5-9 6-10 8-1	1 2 2	4-10 5-9 6-10	2 2 2	6-5 7-8 9-0	1 2 2	5-0 5-11 6-11	2 2 2	4-2 4-11 5-10	2 2 2	5-9 6-9 8-0	2 2	4-5 5-3 6-2	2 2
[ [ [	3-2×8 3-2×10 3-2×12	9-5 11-3 13-2	] [ -	7-3 3-7 10-1	1 2	6-1 7-3 8-6	2 2	8-1 9-7 11-3	1 2	6-3 7-4 8-8	2 2	5-3 6-2 7-4	2 2	7-2 8-6 10-0 8-3	1 2 1	3-6 6-7 7-9 6-4	2 2
	4-2×8 4-2×10 4-2×12	10-11 12-11 15-3	1 1 1	3-4 9-11 11-8	1 1 2	7-0 8-4 9-10 2-2	1 2 2	9-4 11-1 13-0 3-0	1 1 2	3-6 10-0 2-4	1 1 2	7-2 3-5 2-0	1 2 2	9-10 11-7 2-9	1 1 2	7-7 8-11 2-2	2 2
	1-2×6 1-2×8 1-2×10 1-2×12	4-11 5-9	2 2	3-3 3-10 4-6	2 2 3	2-9 3-3 3-10	2 3 3	3-9 4-6 5-3	2 2	3-0 3-6 4-2	2 3 3	2-6 3-0 3-6	3 3	3-6 4-1 4-10	2 2 3	2-9 3-3 3-10	3
Roof, ceiling	2-2 × 4 2-2 × 6 2-2 × 8	3-3 4-10 6-1	1 i	2-6 3-9 4-10	1 1 2	2-2 3-3 4-1	2 2	3-0 4-5 5-7	1 1 2	2-4 3-6 4-5	2 2	2-0 3-0 3-9	1 2 , 2	2-8 4-1 5-2	1 1 2	2-2 3-3 4-1	2 2
and one center- bearing floor	2-2 × 10 2-2 × 12 3-2 × 3	7-3 3-6 7-3	2 1	5-8 -6-8 -6-0	2	5-3 5-1	2 2 2	7-10 7-0	2 1	5-3 6-2 5-6 6-7	2 2 2	4-5 5-3 4-8 5-7	2 3 2	6-1 7-2 6-3 7-8	2 1 2	7-10 5-8 5-1 6-1	2 2 2
	3-2 × 10 3-2 × 12 4-2 × 3 4-2 × 10	9-1 10-8 8-10 10-6	1 2 1	7-2 8-5 6-11 8-3	2 2 1	5-1 7-2 5-11 7-0	2 1 2	8-4 9-10 8-1 9-3	2	7-8 6-4 7-7	2 1 2	6-7 5-5 6-3	2 2 2	7-8 9-0 7-5 8-10	2 1	7-1 5-11 7-0	2 1 2
	4-2×10 4-2×12 1-2×6 1-2×8	12-4 2-11 3-9	1 2 2	9-8 2-3 2-10	2 2	3-3 1-11 2-5	2 2 3	11-4 2-9 3-6	2 2	3-11 2-1 2-3	2 2 2	1-7	2 2	10-4 2-7 3-3	2 2	8-3 2-0 2-6	2 2 3
	1-2×10 1-2×12 2-2×4	4-5 5-2 2-11	2 2	3-5 4-0 2-3	3	2-10 3-4 1-10	3 3	4-2 4-10 2-9	3	3-2 3-9 2-1	3	2-8 3-2 1-9	3 ·	3-11 4-7 2-7	2 3	3-0 3-6 2-0	3 3 1
Roof, ceiling and one clear span floor	2-2×6 2-2×8 2-2×10	4-4 5-5 6-7	2 2	3-4 4-3 5-0	2 2	2-10 3-7 4-2	2 2	5-2 6-1	2 2	3-2 4-0 4-9	2 2	2-3 3-4 4-0	2 2	3-10 4-10 5-9	2 2	3-0 3-9 4-5	2 2
	2-2×12 3-2×3 3-2×10	7-9 6-11 3-3	1 2	5-11 5-3 6-3	2 2	4-11 4-5 5-3	2 2	7-2 6-5 7-8	1 2 2 2	5-7 5-0 5-11	2 2 2	4-3 4-2 5-0	2 2 2	6-9 6-1 7-3 8-6	1 2 2	5-3 4-8 5-7 6-7	3 2 2 2
	3-2×12 4-2×8 4-2×10 4-2×12	9-8 3-0 9-6 11-2	1 1 2	7-5 6-1 7-3 8-6	1 2 2	5-1 5-1 7-2	2 2	9-0 7-5 3-10 10-5	1 1 2	7-0 5-9 6-10 8-0	2 2	5-10 4-10 5-9 6-9	2 2	7-0 8-4 9-10	1 1 2	\$-5 6-5	2 2
GIRDERS AND	SIZE		1	<u> </u>	10			!	ĞROÜ	พธ รทด	ow ro	AD (pst	<u> </u>	i i			0
HEADERS SUPPORTING	51ZE 1-2×6	Span <sup>t</sup>	2 NJ <sup>3</sup> 2	Span <sup>t</sup>	NJ <sup>4</sup>	5pan <sup>t</sup> 1-10	36 NJ <sup>3</sup> 2	Span <sup>r</sup> 2-7	12	<del>-</del> -	9101m* ( 24 NJ <sup>4</sup> 2		16 NJ <sup>u</sup> 2	Spani 2-5	12 MJ <sup>a</sup>	Span <sup>r</sup>	4 NJ'
	1-2 × 3 1-2 × 10 1-2 × 12	3-5 1-0 4-9	2 2 3	2-8 3-2 3-9	3	2-4 2-9 3-2	3 3 4	3-3 3-10 4-6	2 3	2-7 3-1 3-7	3	2-2 2-7 3-1	3 4	3-1 3-3 4-3	2 2 3	2-5 2-11 3-5	3 3
Roof, ceiling	2-2×4 2-2×6 2-2×3	2-8 4-0 5-0 6-0	1 2 2	3-2 4-0 4-9	2 2 2	1-9 2-3 3-5 4-0	2 2 2	2-6 3-9- 4-10 5-8	1 2 2	3-0 3-10 4-6	2 2	2-7 3-3 3-10	2 3	2-5 3-7 4-7 5-5	1 2 2	2-10 3-7 4-3	1 2 2 2
and two center- bearing floors	2-2×10 2-2×12 3-2×8 3-2×10	7-0 6-4 7-6	2 2 1 2	5-7 5-0 5-11	2 2 2 2	4-0 4-9 4-3 5-1	2 3 2 2	5-8 6-8 6-0 7-1	2 1 2 2	3-4 3-9 5-8	2 2 2	3-10 4-6 4-1 4-10	3 2 2	5-5 6-4 5-8 6-9	2 2 2	4-3 5-0 4-6 5-4	3 2 2
	3-2×12 4-2×3 4-2×10	8-10 7-3 3-3	2 1	7-0 5-9 6-10	2 1 2	5-11 3-11 5-19	2 2	8-5 5-11 3-3	2 1 2	6-8 5-6 6-6	2 2	5-8 4-8 5-7	3 2 2	3-0 6-7 7-10	1 2	6-4 5-2 6-2	2 2 2
	$4-2 \times 12$ $1-2 \times 6$ $1-2 \times 3$	10-2 2-3 2-10	2 2 2	8-1 1-9 2-2	2 2 3	6-10 1-3 1-10	2 2 3	9-8 2-3 2-10	2 2	7-8 1-9 2-2	2 2 3	6-7 1-5 1-10	3	9-2 2-2 2-9	2 2 2	7-3 1-8 2-1	2 3
	1-2×10 1-2×12 2-2×4	3-4 4-0 2-3	3	2-7 3-0 1-3	3 1	2-2 2-7 1-4	3 4 1	3-4 4-0 2-3	3 3	2-7 3-0 1-8	3 	2-2 2-7 1-4	1	3-3 3-10 2-2	Ī	2-6 3-0 1-3	3 4 1
Roof, ceiling, and two clear- span floors	$2-2 \times 6$ $2-2 \times 3$ $2-3 \times 10$ $2-2 \times 12$	3-4 4-3 5-0 5-11	2 2	3-3 3-10 4-6	2 2 3	2-2 2-8 3-2 3-9	2 3 3	3-4 4-3 5-0 5-11	2 2 2	3-3 3-10 4-6	2 2 3	2-2 2-3 3-2 3-9	2 2 3	3-3 4-1 4-10 5-8	2 2 2	3-2 3-9 4-5	2 3
	3-2×8 3-2×10 3-2×12	5-3 6-3 7-5	. 2	4-0 4-9 5-8	2 2	3-5 4-0 4-9	2 2 3	5-3 6-3 7-5	2 2	1-0 1-9 5-3	2 2	3-5 4-0 4-9	2 2 3	5-1 6-1 7-2	2 2 2	3-11 4-3 5-6	2 2
	4-2 × 8 4-2 × 10 4-2 × 12	6·1 7·3 8·6	2	4-8 5-6 6-6	2 2	3-11 4-8 5-6	2 2	6-1 7-3 8-6	1 2 2	4-8 5-6 6-6	2 2 2	3-11 1-8 5-6	2 2	5-11 7-0 8-3	2 2	4-7 5-5 6-4	2 2
For St: 1 inch = 2: a. Spans are given b. Spans are based c. Building width	in fect and for the mil is messure	d inches nimum ed perper	lesign adicula	properti ar to the	ies for ridge.	No. 2 g For wir	iths bet	ween ti	iose sh	own, sp	ans are	permit	led tó t	e inter	polated		:
<ul> <li>d. NJ - Number of approved framî</li> <li>e. Use 30 psf grou</li> <li>f. Spans are celcu</li> </ul>	f jack stud: ng anchor a nd snow le bited assor	s required attached and for t ains the	ed to s to the ases in ton of	npport e fidi-bei n which the ben	ach eo glat wa ground der or	d. Whe II studis I snow i pirder is	re the r and to t load is Tateral	unnber he hend less tha ly brace	of requ ler. a 30 ps ed by o	aired jac of and the eroeadie	k stud: e roof cular fr	s equais live loa aming.	one, t d is eq Where	he heac ual to o the too	ler is p r less th of the	ermitted ian 20 p header (	sf. erein
braced (e.g. crip shall be designe	pple studs i	bearing.	on the	header)	, tubuli	ated str	uns for i	henders ABLE i	consis R602.	iing of 1 7(2)	2×8, 2:	<10, or '	2×12 s	izes sha	dl be u	aultiplico	l by
HEADERS A GIRDENS		s for D	ougla			lem-fii	r, Sout				uce-pi		and r	equire		iber of	jack 36
SUPPORTIN		2-2	\$122 \$pun* 2-2 × 4 4-1 2-2 × 6 6-1			12 NJ <sup>2</sup> 1			Span* 2-10 4-4			24			3pan* 2-4 3-6		
		2-2 × 2-2 ×	< 8 : 10		7-9 9-2	1			5-5 6-6 7-7			1 2 2			4-5 5-3 6-3		
One floor o	nly	3-2 × 3-2 ×	. 10		10-9 9-8 11-5		1			6-1 8-1	0		1 l		5-7 6-7		
	` -	4-2 ×	8 10		13-6 11-2 13-3			1 1		9-( 7-1 9-4	I 1		1			7-9 6-5 7-8	
		4-2 × 2-2 ; 2-2 ;	< 4		15-7 2-7 3-11			l l 1		11- 1-1 2-1	1		1 2			9-0 1-7 2-5	
		2-2 ×	10		5-0 5-11 6-11			1 2 2		3-8 4-4 5-4	1		2 2			3-1· 3-7 4-3	
		3-2 × 8 6-3 3-2 × 10 7-5		2 1 1				5-2 4-7 5-6		2 2				4-3 3-10 4-6			
Two floor	3	3-2 >	(8 (0	_							<u>,</u>	-			L		-

e. Spans are calculated assuming the top of the header or girder is laterally braced by perpendicular framing. Where the top of the header or girder is not laterally braced (e.g., cripple studs bearing on the header), labulated spans for headers consisting of 2 × 8, 2 × 10, or 2 × 12 sizes shall be multiplied by 0.70 or the header shall be designed.

R602.7.5 Supports for headers. Headers shall be supported 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 Table R602.7.5. TABLE R602.7.5 MINIMUM NUMBER OF FULL HEIGHT STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS MAXIMUM STUD SPACING (inches) [per Table R602.3(5)] HEADER SPAN

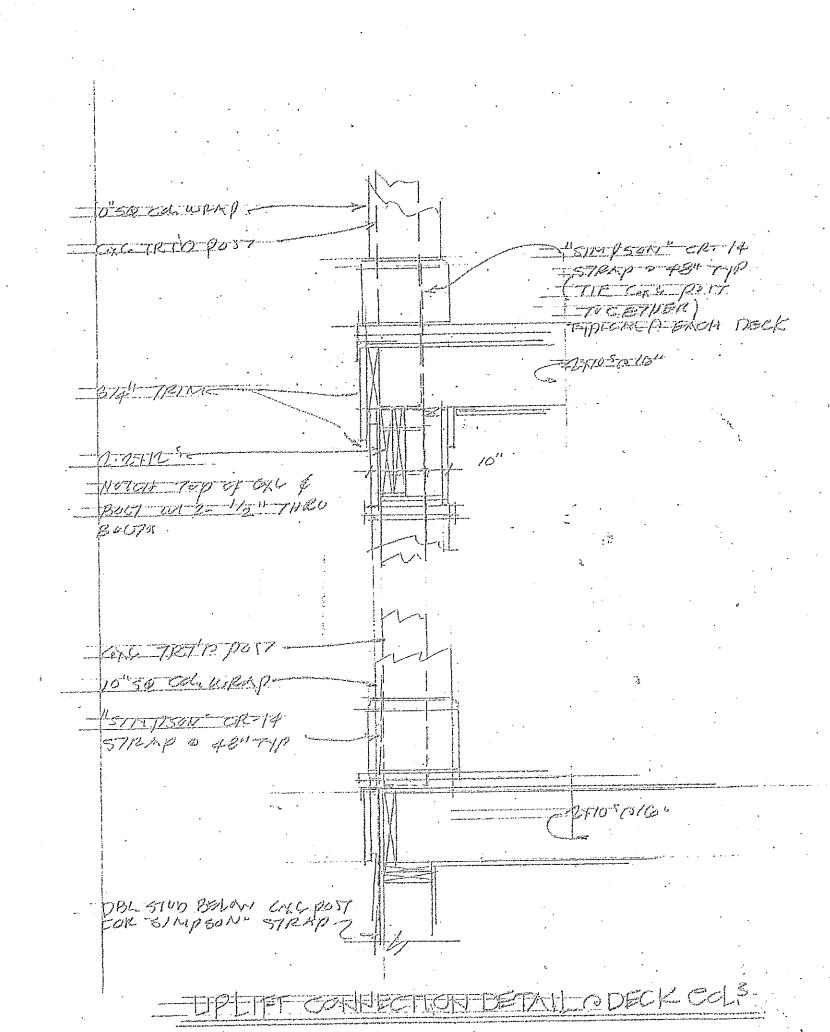


NO SCALE

R311.7.8.3 Grip-size. Required handrails shall be of one of the following types or provide equivalent grasp-

1. Type 1. Handrails with a circular cross section shall have an outside diameter of not less than  $1\frac{1}{2}$ inches (32 mm) and not greater than 2 inches (51 mm). If the handrail is not circular, it shall have a perimeter dimension of not less than 4 inches (102 mm) and not greater than  $6\frac{1}{4}$  inches (160 mm) with a cross section of dimension of not more than  $2\frac{1}{4}$  inches (57 mm). Edges shall have a radius of not less than 0.01 inch (0.25 mm).

2. Type II. Handrails with a perimeter greater than  $6V_4$  inches (160 mm) shall have a graspable finger recess area on both sides of the profile. The finger recess shall begin within a distance of 3/4 inch (19 mm) measured vertically from the tallest portion of the profile and achieve a depth of not less than <sup>3</sup>/<sub>16</sub> inch (8 mm) within <sup>7</sup>/<sub>8</sub> inch (22 mm) below the widest portion of the profile. This required depth shall continue for not less than <sup>3</sup>/<sub>8</sub> inch (10 mm) to a level that is not less than 1<sup>3</sup>/<sub>4</sub> inches (45 mm) below the tallest portion of the profile. The width of the handrail above the recess shall be not less than 1<sup>1</sup>/<sub>4</sub> inches (32 mm) and not more than 2<sup>3</sup>/<sub>4</sub> inches (70 mm). Edges shall have a radius of not less than 0.01 inch (0.25 mm).

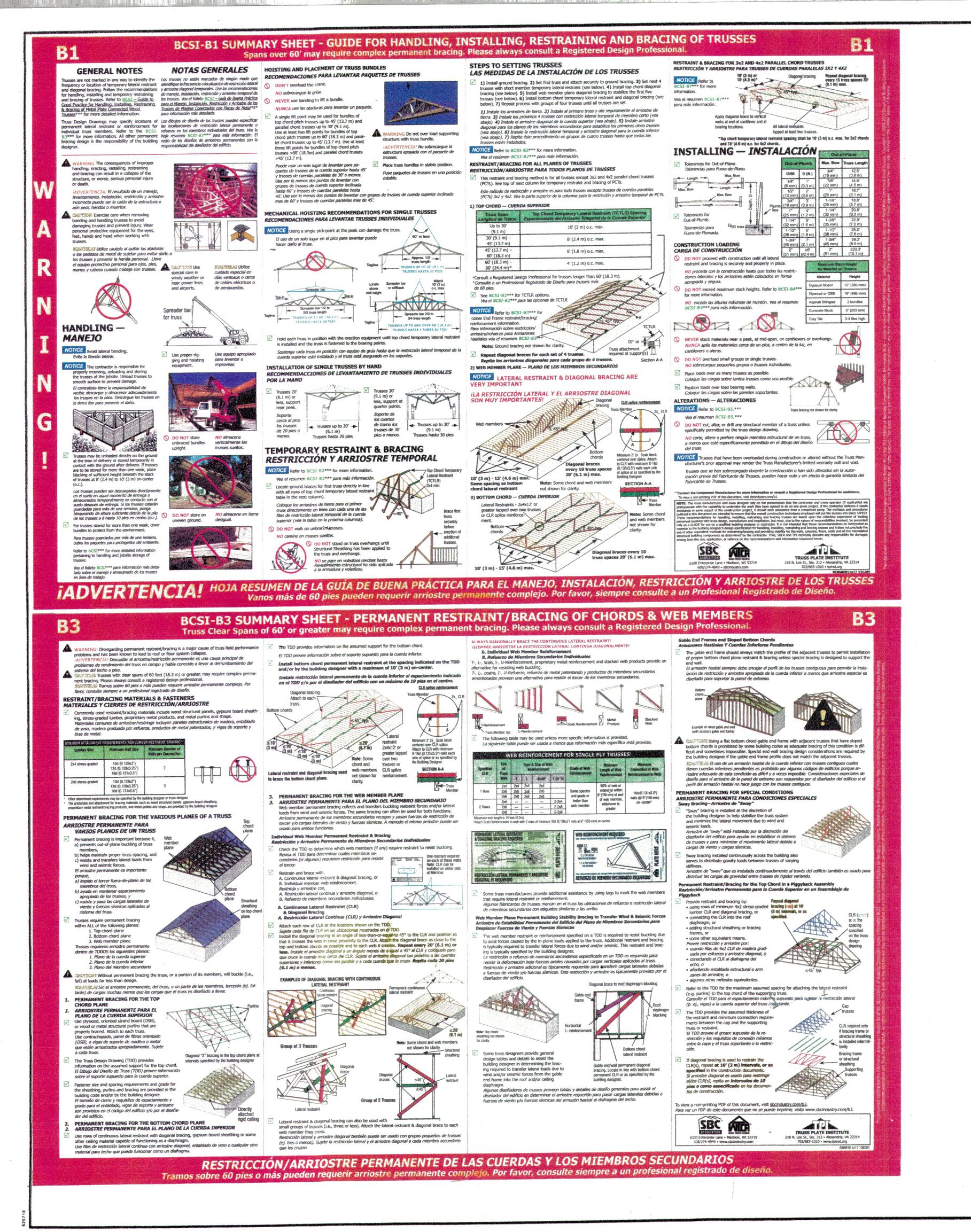


REVISED 5/25/21

3-4-19

DRAWN BY: CWJ

JOS NO.



Recommended Simpson Up Lift Connectors All are based on Spruce Top Plate Lumber Values

Carrying Capacity is increase	d with SYP Top Plate
Uplift (in pounds)	Connector
0 - 160	Halling Schedule
160 - 535	(1) H2.5A
535 - 1070	(2) H2.5A
1070 - 1245	(1) 1475-20
1246 - 1780	(1) HTS20 & (1) H2.5
1780 - 2490	(2) HT320 /
2490 - 7185	" SEE BELOW
7185 and Above	ENG. DESIGN

\* Depending on amount of load either (1) or (2) VGT connectors. These will always be paired with HDU4"s. 108 NO.

DESIGN BY: C.W.)

DRAWN BY: C.WC

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