JANIS ENGINEERING GROUP, INC
Geotechnical Drilling, Soil Testing, & Engineering
2549 Barrington Circle
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(850) 576-1281 FAX (850) 201-6736
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SR 47, Lake City
Job Location
Columbia | Florida
County | State
Quality Family Homes
Contact
11/2/2021
Date | Revised

Prepared by: James Spinnenweber, P.E. #52106

Specifications for Wind Analysis: **130 MPH WIND VELOCITY, EXPOSURE "B"**
Per Florida Building Code 7th EDITION (2020), Based on calculations as per ASCE 7-16 **Velocity Pressure: 25.74 psf**

Project: **Brooks Residence**

Review for Code Compliance
Universal Engineering Science
PX2707 11/19/2021
Examiner-License No.

INDEX

James Spinnenweber 2021.11.08 13:26:53 -05'00'

JAMES SPINNENWEBER LICENSE No. 52106 STATE OF FLORIDA PROFESSIONAL ENGINEER

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Minimum Specifications for Wind Analysis: 130 MPH WIND VELOCITY, EXPOSURE "B"
Per Florida Building Code 7th EDITION (2020), Based on calculations as per ASCE 7-16 Velocity Pressure: 25.74 psf

Importance Factor:	1	Top Plate Species:	SPF	Wall Framing Species:	SPF
Building Category:	II	Mean Roof Height:	16.52 '	Max. Stud Ht., excluding vaults:	10'
Wind Exposure:	B	End Zone Length:	8'	Stud Spacing:	16"
Internal Pressure Coefficient:	0.18	Roof Slope:	8 :12	Max. Overhang:	18"

Hurricane Clips (HC): Simpson Strong-Tie (or equal) as shown or per Truss Manufacturer

	Truss Location	Model # @ End Zone	Model # @ Interior Zone
See **Sheet** S 2 for CMU connections	Main Structure	1-Simpson H10ASS	1-Simpson H2.5A
	Porch Trusses	1-Simpson H2.5A	1-Simpson H2.5A
	Girder Truss	Per Truss Company	Per Truss Company

Roof Sheathing: 5/8" OSB Sheathing **Nailing Pattern**
Fastener: 10d Ring Shank Edges (perimeter) 6" c.c. Field 6" c.c.
Edge nail spacing to be 4" for the first panel at all eaves and gables

Wall Bracing: 8" CMU 7/16" OSB Sheathing (gable areas)
See page 3 and S-2 for shear wall specifications

Wall Straps: Simpson Strong-Tie (or equal)

		Top	Bottom
Model: SP4 w/6-10d nails	Spacing 1st level:	SPH4 @ 32" C.C.	SPH4 @ 32" C.C.
Model: LSTA12 @ headers	Spacing 2nd level:		
Model:	Spacing 3rd level:		

Space connectors @ 32" c.c.
Use SPH6 for 6" studs, SPH8 for 8" studs.

Anchor Bolts: 1/2" dia. x 10" long (or Simpson TITEN HD 1/2" x 6") with 2" washers.
Spacing along wall: 48" c.c. Spacing from each corner: 6" & 18"
When curb conditions exist add length to anchor bolts equal to the curb height.

General Notes:
1. Girder trusses require special attention for uplift requirements. See truss company drawings.
2. All studs over 12' to be spaced @ 12" c.c..
3. All interior load bearing walls to be framed with a minimum 2 x 4 No.2 grade SPF studs or better.
4. Alternate hurricane clips may be used meeting minimum specifications as noted above.
5. See sheet S-1 for Alternate Rafter/Truss to wall connections.
6. For shear wall lengths, types & locations see Shear Wall Load Data tables and Location Plan(s).
7. For shear wall specifications see Shear Wall Specifications.

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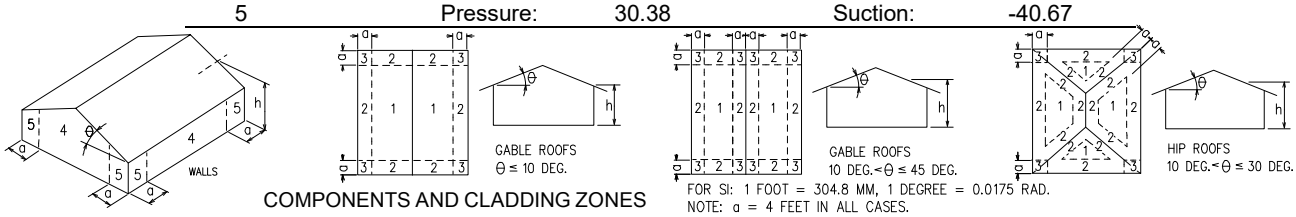
Design Pressures

Components and Cladding Pressures

ROOF ZONES		WIND LOADS [Pressure (psf)]		
1	Pressure:	27.80	Suction:	-30.38
2	Pressure:	27.80	Suction:	-30.38
3	Pressure:	27.80	Suction:	-35.52

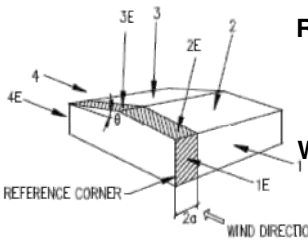
WALL ZONES		WIND LOADS [Pressure (psf)]		
4	Pressure:	30.38	Suction:	-32.95
5	Pressure:	30.38	Suction:	-40.67



COMPONENTS AND CLADDING ZONES

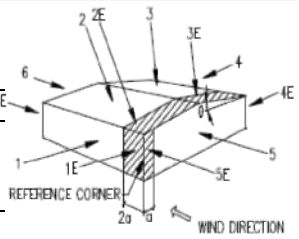
FOR SI: 1 FOOT = 304.8 MM, 1 DEGREE = 0.0175 RAD.
NOTE: a = 4 FEET IN ALL CASES.

Main Wind Force Resisting Systems (MWFRS)



ROOF ZONES		WIND LOADS [Pressure (psf)]		
2	End Zone:	-32.18	Interior Zone:	-22.40
3	End Zone:	-18.28	Interior Zone:	-15.70

WALL ZONES		WIND LOADS [Pressure (psf)]		
1	End Zone:	22.40	Interior Zone:	19.05
4	End Zone:	-16.99	Interior Zone:	-16.22



Load Case A (Transverse)

Load Case B (Longitudinal)

Notes:

1. Install Simpson sheathing clip PSCL @ 24" c.c. for roof sheathing.
2. Gable ends per attached details. For vaulted ceilings, balloon framing is required.
3. Provide continuous structural sheathing on gable ends and block all edges on sheathing.
4. See attached pages for column locations and connections.
5. Minimum of two rows of blocking for studs over 10', 3 rows for over 16', 4 rows for over 20'.
6. Block walls to have 1-#5 vertical bar @ 4' c.c. maximum spacing from footing to top lintel and a #5 continuous horizontal bar @ top lintel for wind loading.(Verify for other structural conditions)

Wood Header Table for Horizontal and Uplift Loading Only *		
Span (FT.)	Header Size	(2 x) cripples per end
0' - 4'-4"	2-2x6 w/7/16" OSB Flitch Plate	1
4'-4" - 6'-4"	2-2x8 w/7/16" OSB Flitch Plate	2
6'-4" - 10'-4"	2-2x10 w/7/16" OSB Flitch Plate	3
10'-4" - 14'-4"	2-2x12 w/7/16" OSB Flitch Plate	3
14'-4" - 18'-4"	3 1/2" X 11" LVL (or equal)	4

Pre-Eng. header stock may be used. (per manufacturer). Beams over 18'-2" to be Pre-Engineered.

* Header table is for in wall headers over windows, doors & openings. Builder to verify all header and beam sizes for other loading conditions.

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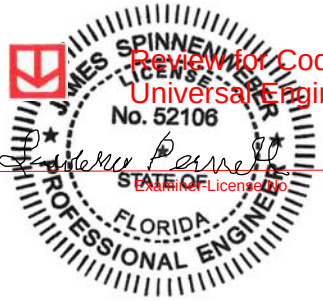
Shear Wall Load Data

NOTE: See Panel Type Specifications below & Page L-1.

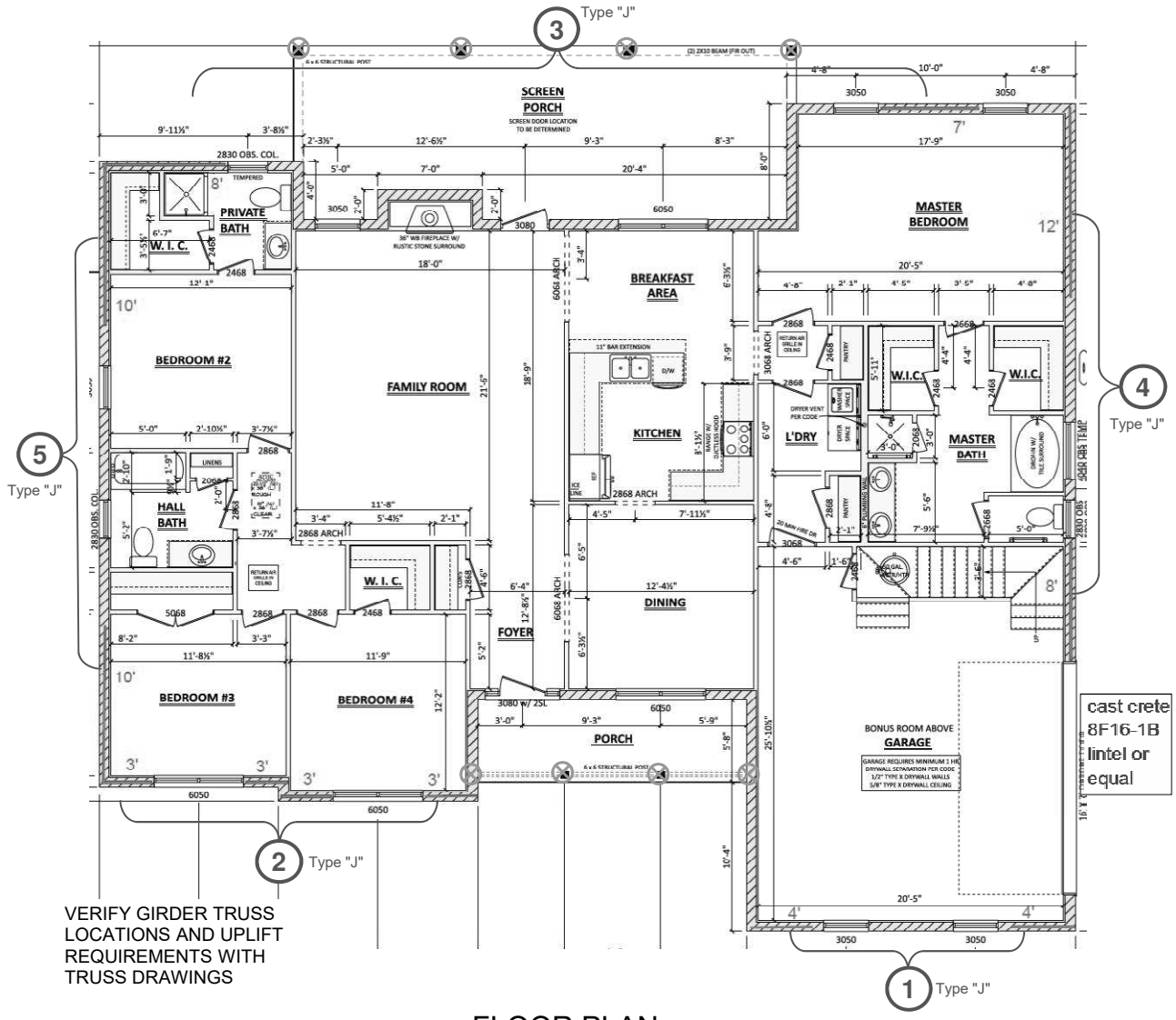
SHEAR PANEL DATA

Wall Number	Exterior Interior	Panel Type	Capacity (plf)	Length (ft)	Unit Shear (plf)	Actual Load (lbs)	Capacity (lbs)	Capacity % Used
				LONGITUDINAL WALLS				
1	exterior	J	800.00	8	413.24	3305.91	6400.00	51.65
2	exterior	J	800.00	12	401.63	4819.53	9600.00	50.20
3	exterior	J	800.00	15	407.57	6113.62	12000.00	50.95
				TRANSVERSE WALLS				
4	exterior	J	800.00	20	633.11	12662.16	16000.00	79.14
5	exterior	J	800.00	20	633.11	12662.16	16000.00	79.14

	Shear Wall Panel Type "J" Specifications	
8" cmu	Panel Type	8" cmu
	Minimum reinforcing bar size	#5
	Minimum vertical reinforcing bar spacing	48"
	Lintel at top of wall	8" cmu
	Minimum lintel reinforcing	1- #5
	Horizontal Masonry Reinforcing (HMR)	16" vertical
	Total Panel Shear Capacity	800 plf



Job Location: SR 47, Lake City



VERIFY GIRDER TRUSS LOCATIONS AND UPLIFT REQUIREMENTS WITH TRUSS DRAWINGS

ALL BEAM SIZES AS PER HOME PLANS OR TRUSS COMPANY

FLOOR PLAN

SEE TRUSS DRAWINGS FOR POSSIBLE INTERIOR BRG/UPLIFT REQUIREMENTS.

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Refer to page 3 for Shear Wall Panel Types

LEGEND	
#	WALL NUMBER
#	WALL LENGTH
▬	EXTERIOR SHEAR WALL
⊗	COLUMN LOCATION

SEE ROOF TRUSS DRAWINGS FOR TRUSS BRACING

Red lines indicate shear wall areas.
Column may be a stud pak

SEE ATTACHED DETAILS.

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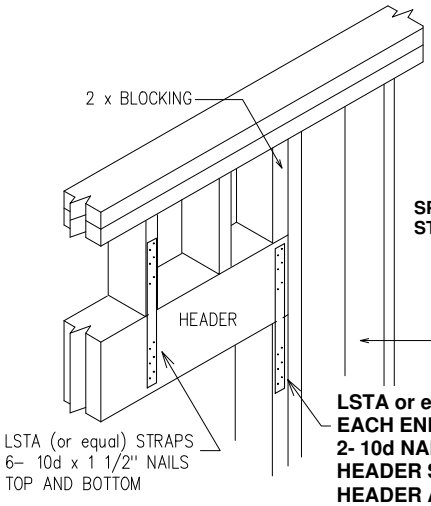
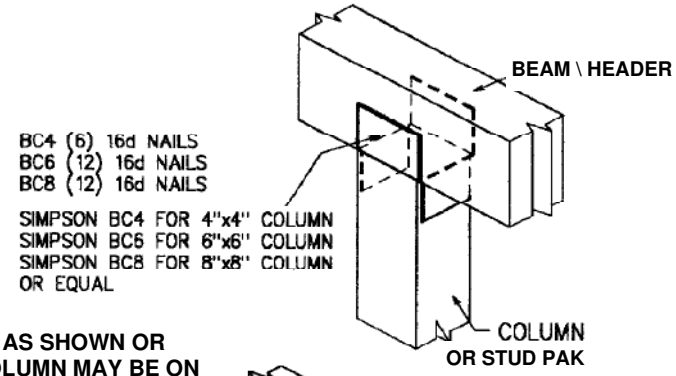
LOCATION PLAN	
	L-1



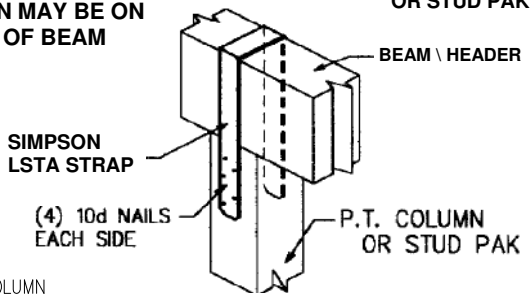
SPACE STRAPS PER WALL STRAPS PAGE 1

LSTA or equal STRAPS EACH END OF HEADER. 2- 10d NAILS PER FOOT OF HEADER SPAN INTO HEADER AND SUPPORT

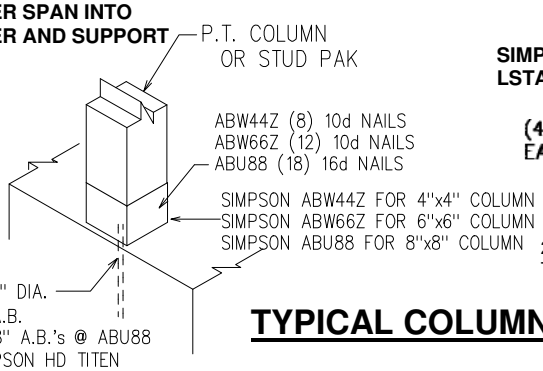
HEADER CONN.



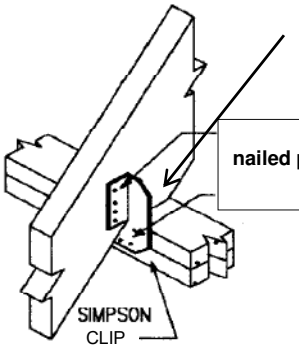
AS SHOWN OR COLUMN MAY BE ON TOP OF BEAM



2 STRAPS REQ. WHEN BEAM IS NOT CONTINUOUS
2 LSTA STAPS (1 EACH SIDE) MAY BE USED W/4 10d NAILS TOP AND BOTTOM EACH SIDE

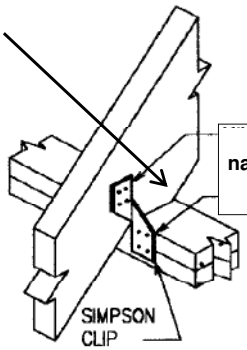


TYPICAL COLUMN CONNECTION DETAILS



2- 10d NAILS - RAFTER/TRUSS TO TOP PLATE

nailed per Simpson specifications

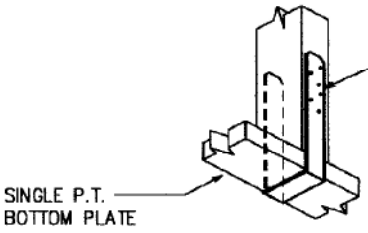


nailed per Simpson specifications

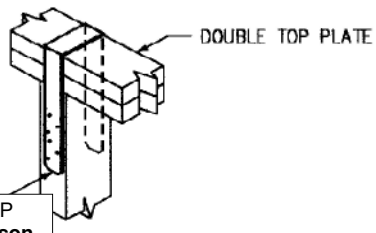
SEE WIND ANALYSIS PAGE 1 FOR CLIP TYPE, QUANTITY AND SPACING.

HURRICANE CLIP DETAILS

SEE WIND ANALYSIS PAGE 1 FOR STRAP SPACING.



SP4 "U" STRAP **nailed per Simpson specifications**



SP4 "U" STRAP **nailed per Simpson specifications**

"U" STRAP DETAILS

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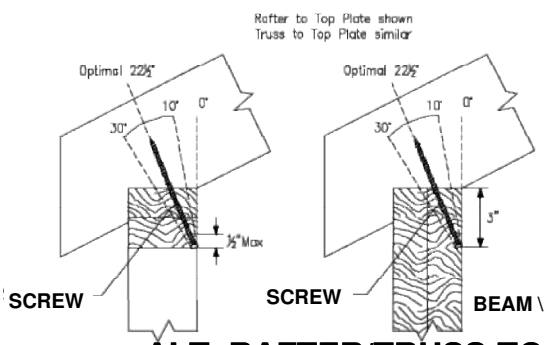

SIMPSON SDWC1560 OR TIMBERLOK OR (EQUAL) SCREWS MAY BE USED IN LIEU OF THE HURRICANE CLIPS SPECIFIED ON PAGE 1 . (NOTE: GIRDER TRUSSES REQUIRE TYPICAL HOLD-DOWN CONNECTORS)

REFER TO TRUSS COMPANY UPLIFT PRESSURES AND maximum horizontal design Reaction AND SCREW MANUFACTURES SPECIFICATIONS.

NOTE: VERIFY WOOD SPECIES WHEN DETERMINING UPLIFT VALUES

ALT. RAFTER/TRUSS TO WALL/BEAM CONN.

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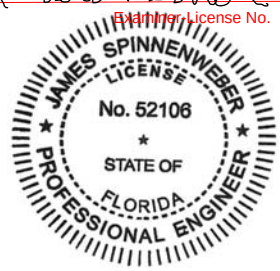

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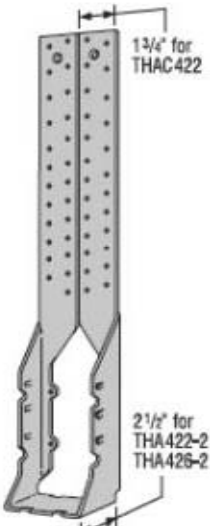
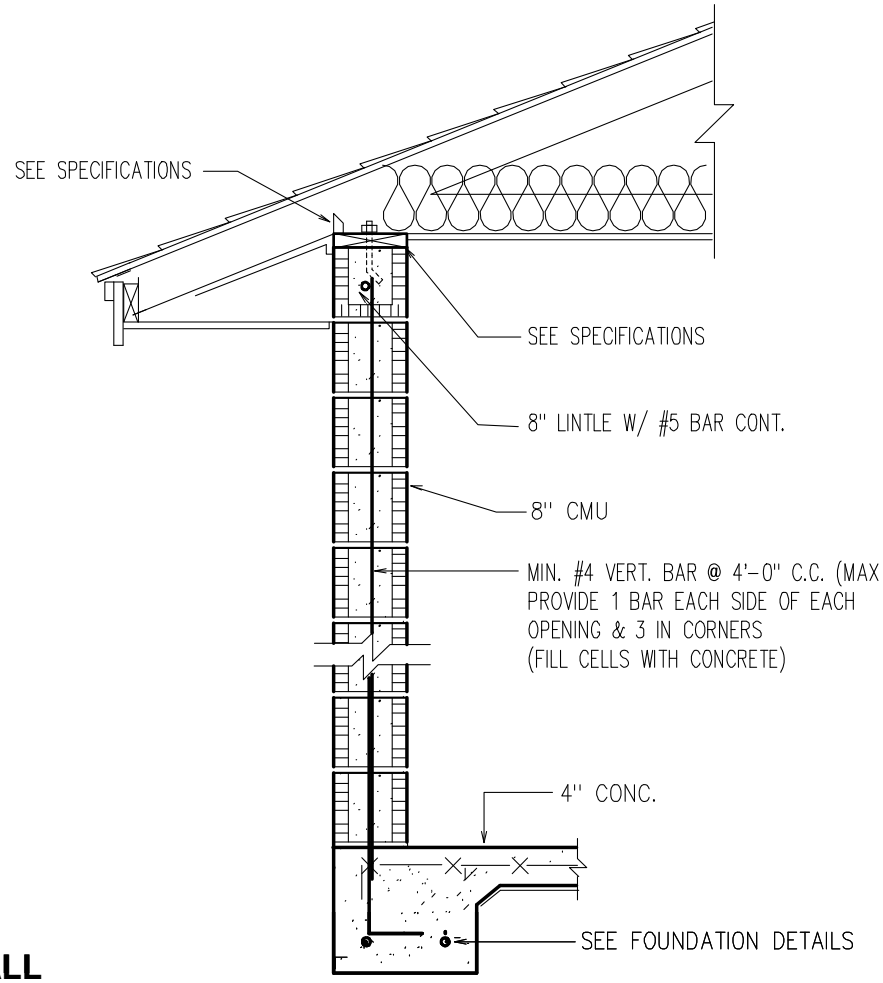
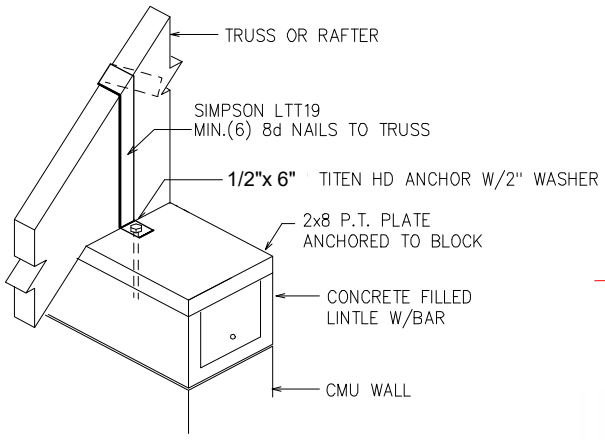
HOLD DOWN CONNECTIONS	
	S-1



PORCH BEAM TO WALL
SIMPSON THAC418 HANGER



TYPICAL CMU WALL DETAIL



TRUSS TO WALL CONNECTION

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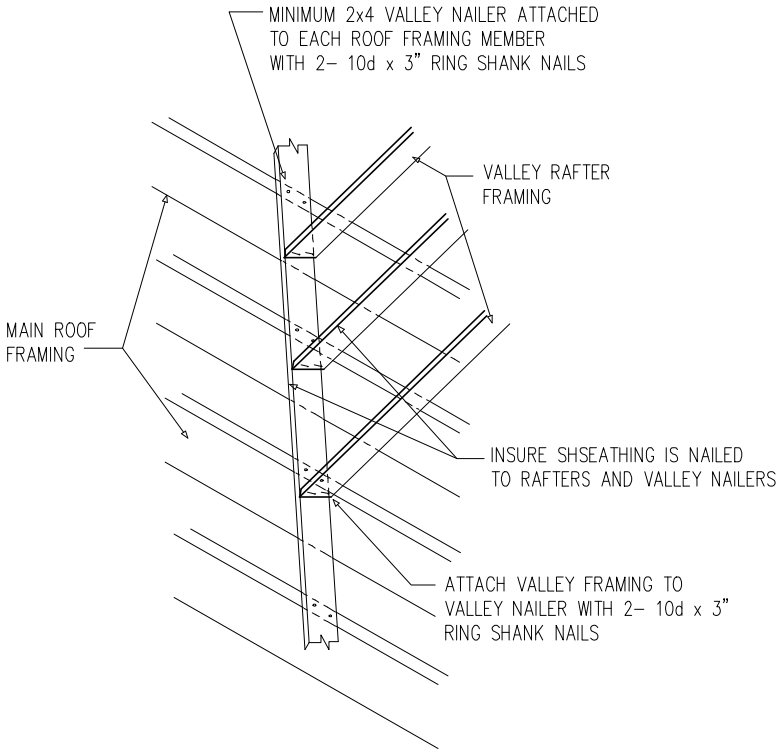
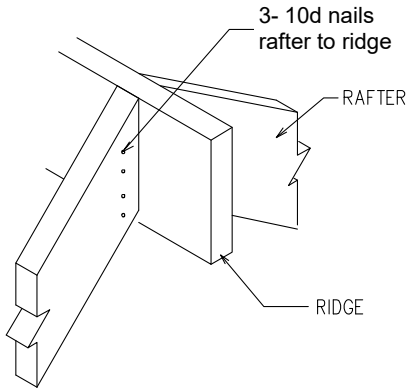
DETAILS	
	S-2

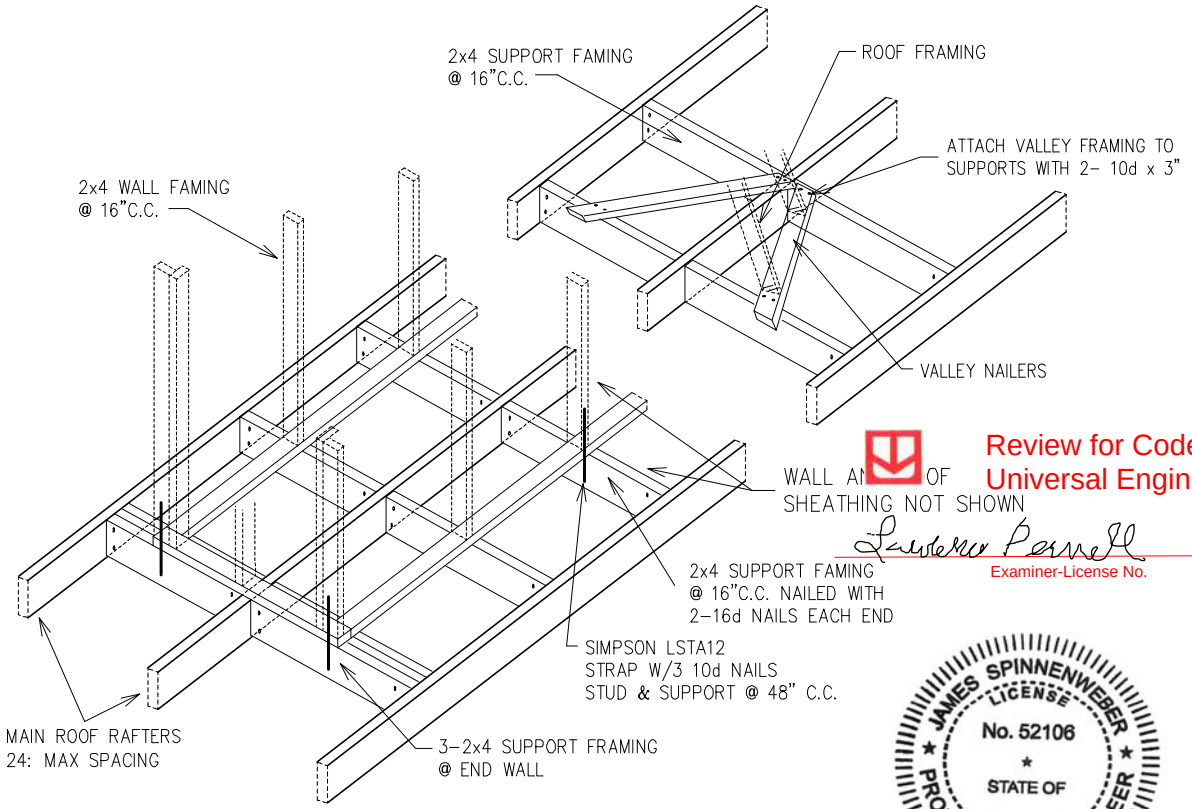


VALLEY FRAMING DETAIL



RAFTER TO RIDGE DETAIL

ROOF SHEATHING TO BE NAILED PER PAGE 1, (ROOF SHEATHING) SPECIFICATIONS UNLESS NOTED ON PAGE L-1



DORMER FRAMING DETAIL

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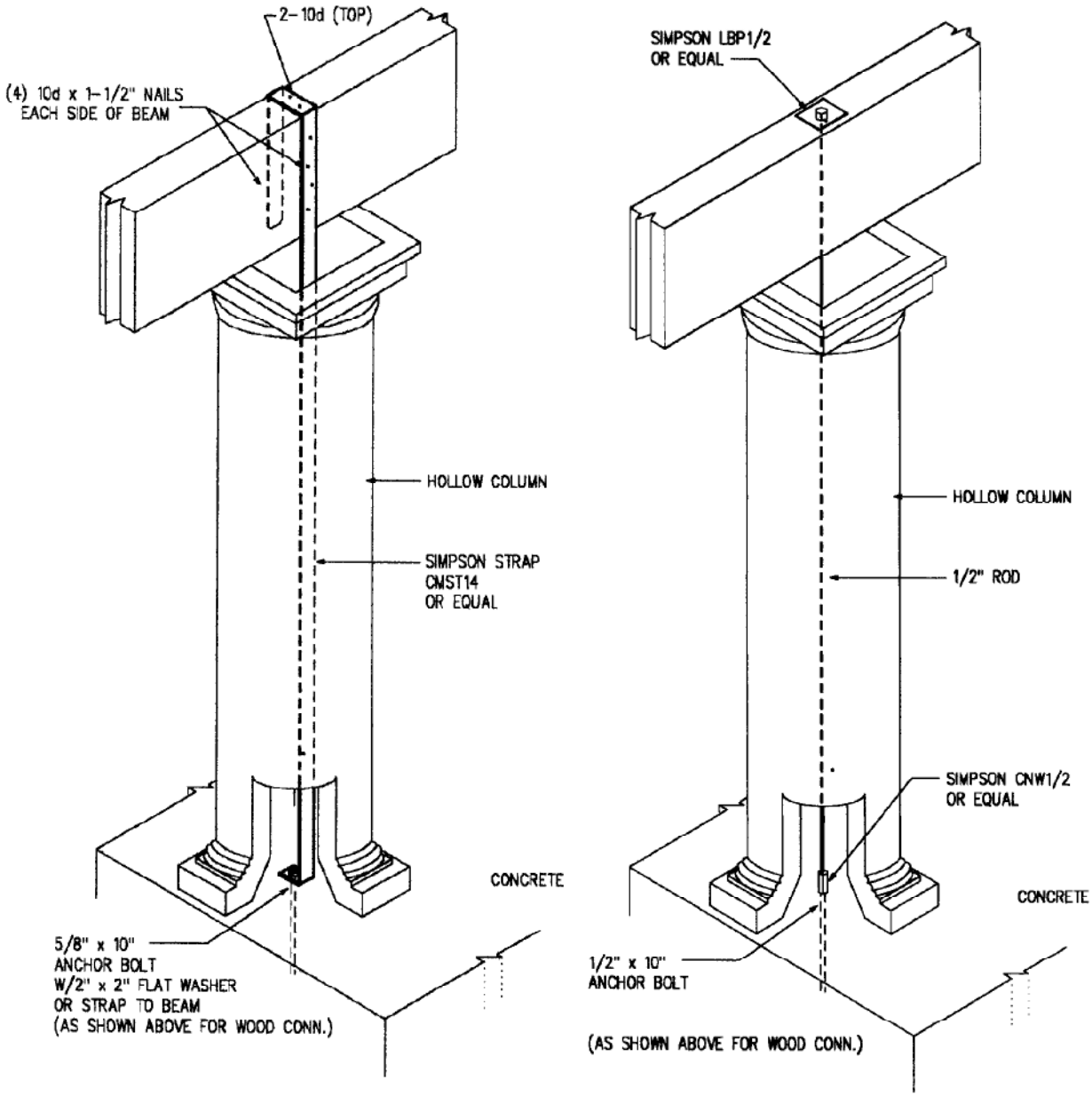
FRAMING DETAILS	
	S-3



HOLLOW COLUMN CONNECTION

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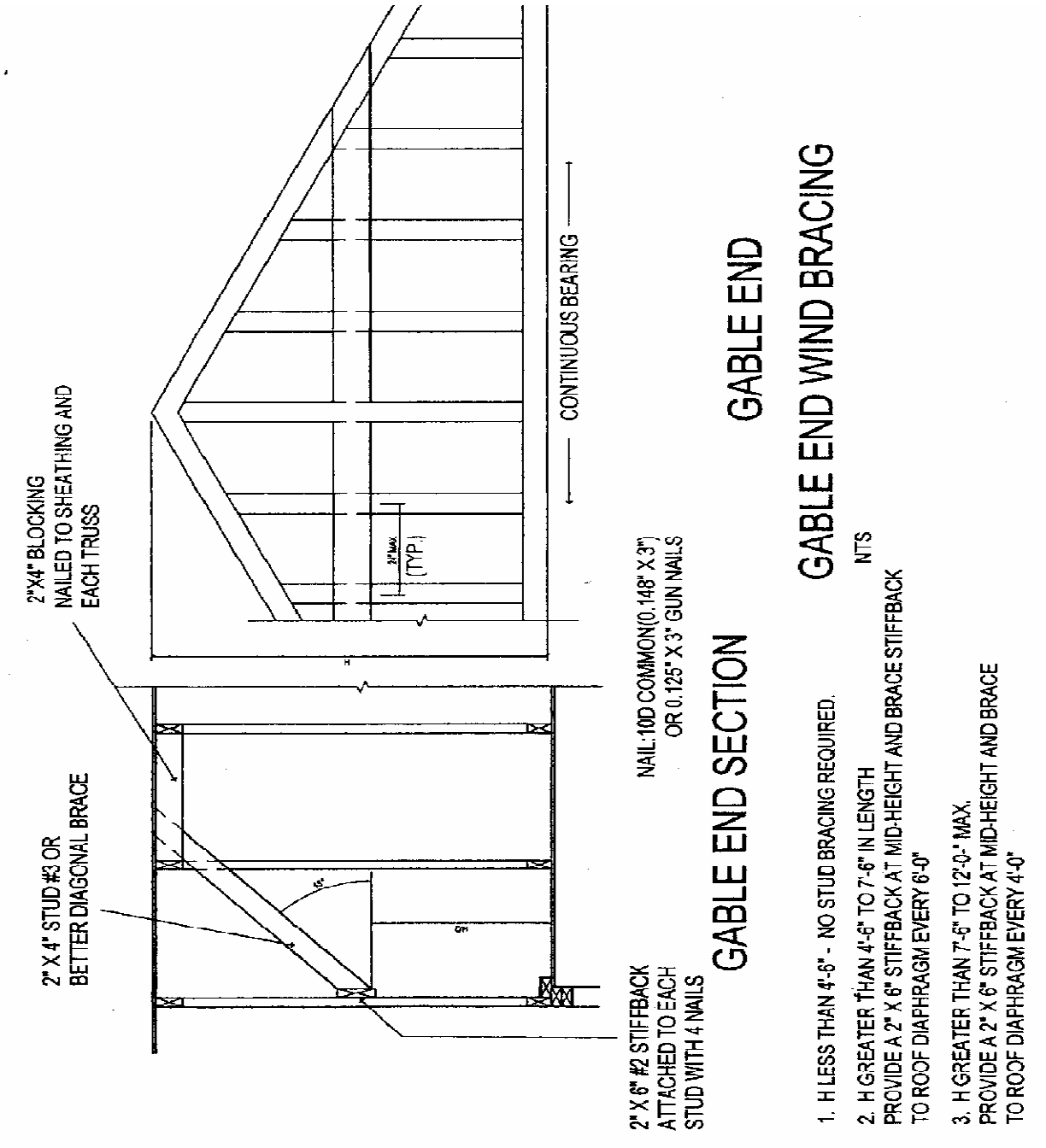
HOLLOW COLUMN DETAILS	
	S-4



GABLE END SECTION

GABLE END

GABLE END WIND BRACING

NTS

1. H LESS THAN 4'-6" - NO STUD BRACING REQUIRED.
2. H GREATER THAN 4'-6" TO 7'-6" IN LENGTH
PROVIDE A 2" X 6" STIFFBACK AT MID-HEIGHT AND BRACE STIFFBACK
TO ROOF DIAPHRAGM EVERY 6'-0"
3. H GREATER THAN 7'-6" TO 12'-0" MAX.
PROVIDE A 2" X 6" STIFFBACK AT MID-HEIGHT AND BRACE
TO ROOF DIAPHRAGM EVERY 4'-0"

SEE TRUSS DRAWINGS FOR GABLE END BRACING. WHEN BRACING IS NOT SHOWN ON TRUSS DRAWINGS BY TRUSS MANUFACTURER, SEE DETAIL ABOVE FOR BRACING

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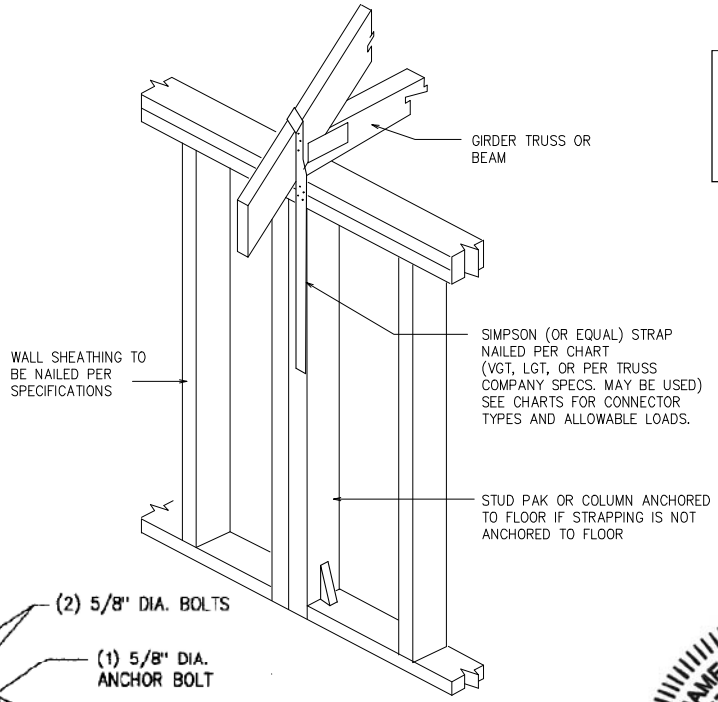
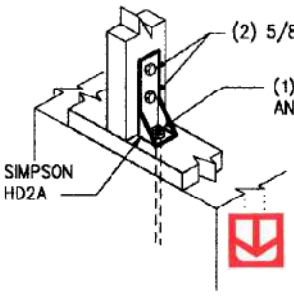
GABLE END BRACE DETAIL	
	S-5

Model No.	Qty.	No. of Plies	O.C. Dim. Between Anchors	Fasteners: Nails or Anchor Diameter	Fasteners: Girder	DF/SP Allowable Uplift Loads (160)	SPF/HF Allowable Uplift Loads (160)
LGT2	1	2 ply	—	14-16d Sinkers	16-16d Sinkers	2050	1785
LGT3-SDS2.5	1	3 ply	—	26-16d Sinkers	12-SDS ¼"x2½"	3685	2655
LGT4-SDS3	1	4 ply	—	30-16d Sinkers	16-SDS ¼"x3"	4060	2925[6]
MGT	1	2 ply min.	—	1-½	22-10d	3965	3300
VGT	1	2 ply min.	—	1-½	16-SDS ¼"x3"	4940	3555
	2	2 ply min.	—	2-½	32-SDS ¼"x3"	7185	5175
		3 ply min.	—	2-½	32-SDS ¼"x3"	8890	6400
VGTR/L	1	2 ply min.	—	1-½	16-SDS ¼"x3"	2230	1605
	2	2 ply min.	—	2-½	32-SDS ¼"x3"	5545	3990
HGT-2	1	2 ply	5¾	2-½	16-10d	10980	6485
HGT-3	1	3 ply	7⅜	2-½	16-10d	10530	9035
HGT-4	1	4 ply	9	2-½	16-10d	9250	9250

Model No.	Total L	Ga	DF/SP Fasteners 160	DF/SP End Length 160	SPF/HF Fasteners 160	SPF/HF End Length 160	Allowable Tension Loads (160)
CMST12	40'	12	74 - 16d	33"	84 - 16d	38"	9215
			86 - 10d	39"	98 - 10d	44"	9215
CMST14	52½'	14	56 - 16d	26"	66 - 16d	30"	6490
			66 - 10d	30"	76 - 10d	34"	6490
CMSTC16	54'	16	50 - 16d sinker	20"	58 - 16d sinker	25"	4585
CS14	100'	14	26 - 10d	15"	30 - 10d	16"	2490
			30 - 8d	16"	36 - 8d	19"	2490
CS16	150'	16	20-10d	11"	22 - 10d	12"	1705
			22 - 8d	13"	26 - 8d	14"	1705
CS18	200'	18	16 - 10d	9"	18 - 10d	10"	1370
			18 - 8d	11"	22 - 8d	12"	1370
CS20	250'	20	12 - 10d	6"	14 - 10d	8"	1030
			14 - 8d	9"	16 - 8d	9"	1030
CS22	300'	22	10 - 10d	7"	12 - 10d	7"	845
			12 - 8d	6"	14 - 8d	8"	845

SIMPSON STRAP AND GIRDER TIE DOWN LOAD TABLES





VERIFY GIRDER TRUSS LOCATIONS AND UPLIFT REQUIREMENTS WITH TRUSS DRAWINGS

When required :
Use simpson strap (see table) ,(from floor,over truss top chord, to floor) anchored to floor w/2- 1/2"x6" titen hd anchors or anchor column or stud pak to slab/foundation and nail strap(s) per table specs.

Optional tie downs may be used.

Review for Code Compliance
Universal Engineering Science

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PX2707 — Examiner-License No.

11/19/2021

GIRDER TIE-DOWN DETAILS	
	S-6

JANIS ENGINEERING GROUP, INC
Geotechnical Drilling, Soil Testing, & Engineering
2549 Barrington Circle
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(850) 576-1281 FAX (850) 201-6736
office@janiseng.com

SR 47, Lake City
Job Location
Columbia | Florida
County | State
Quality Family Homes
Contact
11/2/2021
Date | Revised

Prepared by: James Spinnenweber, P.E. #52106

Specifications for Wind Analysis: 130 MPH WIND VELOCITY, EXPOSURE "B"
Per Florida Building Code 7th EDITION (2020), Based on calculations as per ASCE 7-16 Velocity Pressure: 25.74 psf

Project: Brooks Residence

INDEX

James Spinnenweber 2021.11.08 13:26:53 -05'00'

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Date

Prepared by: James Spinnenweber, P.E. #52106

Minimum Specifications for Wind Analysis: 130 MPH WIND VELOCITY, EXPOSURE "B"
Per Florida Building Code 7th EDITION (2020), Based on calculations as per ASCE 7-16 Velocity Pressure: 25.74 psf

Importance Factor:	1	Top Plate Species:	SPF	Wall Framing Species:	SPF
Building Category:	II	Mean Roof Height:	16.52 '	Max. Stud Ht., excluding vaults:	10'
Wind Exposure:	B	End Zone Length:	8'	Stud Spacing:	16"
Internal Pressure Coefficient:	0.18	Roof Slope:	8 :12	Max. Overhang:	18"

Hurricane Clips (HC): Simpson Strong-Tie (or equal) as shown or per Truss Manufacturer

	Truss Location	Model # @ End Zone	Model # @ Interior Zone
See **Sheet** S 2 for CMU connections	Main Structure	1-Simpson H10ASS	1-Simpson H2.5A
	Porch Trusses	1-Simpson H2.5A	1-Simpson H2.5A
	Girder Truss	Per Truss Company	Per Truss Company

Roof Sheathing: 5/8" OSB Sheathing **Nailing Pattern**

Fastener: 10d Ring Shank Edges (perimeter) 6" c.c. Field 6" c.c.

Edge nail spacing to be 4" for the first panel at all eaves and gables

Wall Bracing: 8" CMU 7/16" OSB Sheathing (gable areas)

See page 3 and S-2 for shear wall specifications

Wall Straps: Simpson Strong-Tie (or equal)

		Top	Bottom
Model: SP4 w/6-10d nails	Spacing 1st level:	SPH4 @ 32" C.C.	SPH4 @ 32" C.C.
Model: LSTA12 @ headers	Spacing 2nd level:		
Model:	Spacing 3rd level:		

Space connectors @ 32" c.c.
Use SPH6 for 6" studs, SPH8 for 8" studs.

Anchor Bolts: 1/2" dia. x 10" long (or Simpson TITEN HD 1/2" x 6") with 2" washers.
Spacing along wall: 48" c.c. Spacing from each corner: 6" & 18"
When curb conditions exist add length to anchor bolts equal to the curb height.

General Notes:

1. Girder trusses require special attention for uplift requirements. See truss company drawings.
2. All studs over 12' to be spaced @ 12" c.c..
3. All interior load bearing walls to be framed with a minimum 2 x 4 No.2 grade SPF studs or better.
4. Alternate hurricane clips may be used meeting minimum specifications as noted above.
5. See sheet S-1 for Alternate Rafter/Truss to wall connections.
6. For shear wall lengths, types & locations see Shear Wall Load Data tables and Location Plan(s).
7. For shear wall specifications see Shear Wall Specifications.

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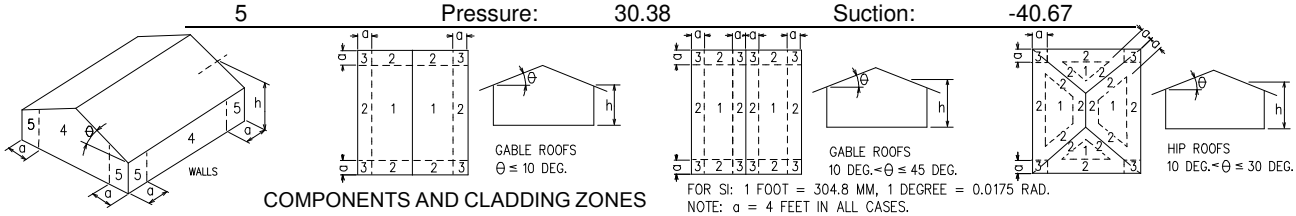
Design Pressures

Components and Cladding Pressures

ROOF ZONES		WIND LOADS [Pressure (psf)]		
1	Pressure:	27.80	Suction:	-30.38
2	Pressure:	27.80	Suction:	-30.38
3	Pressure:	27.80	Suction:	-35.52

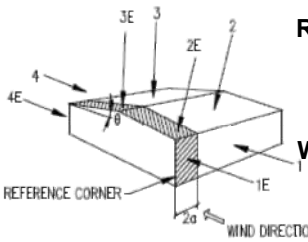
WALL ZONES		WIND LOADS [Pressure (psf)]		
4	Pressure:	30.38	Suction:	-32.95
5	Pressure:	30.38	Suction:	-40.67



COMPONENTS AND CLADDING ZONES

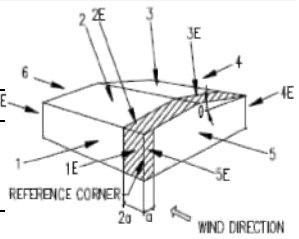
FOR SI: 1 FOOT = 304.8 MM, 1 DEGREE = 0.0175 RAD.
NOTE: a = 4 FEET IN ALL CASES.

Main Wind Force Resisting Systems (MWFRS)



ROOF ZONES		WIND LOADS [Pressure (psf)]		
2	End Zone:	-32.18	Interior Zone:	-22.40
3	End Zone:	-18.28	Interior Zone:	-15.70

WALL ZONES		WIND LOADS [Pressure (psf)]		
1	End Zone:	22.40	Interior Zone:	19.05
4	End Zone:	-16.99	Interior Zone:	-16.22



Load Case A (Transverse)

Load Case B (Longitudinal)

Notes:

1. Install Simpson sheathing clip PSCL @ 24" c.c. for roof sheathing.
2. Gable ends per attached details. For vaulted ceilings, balloon framing is required.
3. Provide continuous structural sheathing on gable ends and block all edges on sheathing.
4. See attached pages for column locations and connections.
5. Minimum of two rows of blocking for studs over 10', 3 rows for over 16', 4 rows for over 20'.
6. Block walls to have 1-#5 vertical bar @ 4' c.c. maximum spacing from footing to top lintel and a #5 continuous horizontal bar @ top lintel for wind loading.(Verify for other structural conditions)

Wood Header Table for Horizontal and Uplift Loading Only *		
Span (FT.)	Header Size	(2 x) cripples per end
0' - 4'-4"	2-2x6 w/7/16" OSB Flitch Plate	1
4'-4" - 6'-4"	2-2x8 w/7/16" OSB Flitch Plate	2
6'-4" - 10'-4"	2-2x10 w/7/16" OSB Flitch Plate	3
10'-4" - 14'-4"	2-2x12 w/7/16" OSB Flitch Plate	3
14'-4" - 18'-4"	3 1/2" X 11" LVL (or equal)	4

Pre-Eng. header stock may be used. (per manufacturer). Beams over 18'-2" to be Pre-Engineered.

* Header table is for in wall headers over windows, doors & openings. Builder to verify all header and beam sizes for other loading conditions.

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Shear Wall Load Data

NOTE: See Panel Type Specifications below & Page L-1.

SHEAR PANEL DATA

Wall Number	Exterior Interior	Panel Type	Capacity (plf)	Length (ft)	Unit Shear (plf)	Actual Load (lbs)	Capacity (lbs)	Capacity % Used
				LONGITUDINAL WALLS				
1	exterior	J	800.00	8	413.24	3305.91	6400.00	51.65
2	exterior	J	800.00	12	401.63	4819.53	9600.00	50.20
3	exterior	J	800.00	15	407.57	6113.62	12000.00	50.95
				TRANSVERSE WALLS				
4	exterior	J	800.00	20	633.11	12662.16	16000.00	79.14
5	exterior	J	800.00	20	633.11	12662.16	16000.00	79.14

	Shear Wall Panel Type "J" Specifications	
8" cmu	Panel Type	8" cmu
	Minimum reinforcing bar size	#5
	Minimum vertical reinforcing bar spacing	48"
	Lintel at top of wall	8" cmu
	Minimum lintel reinforcing	1- #5
	Horizontal Masonry Reinforcing (HMR)	16" vertical
	Total Panel Shear Capacity	800 plf

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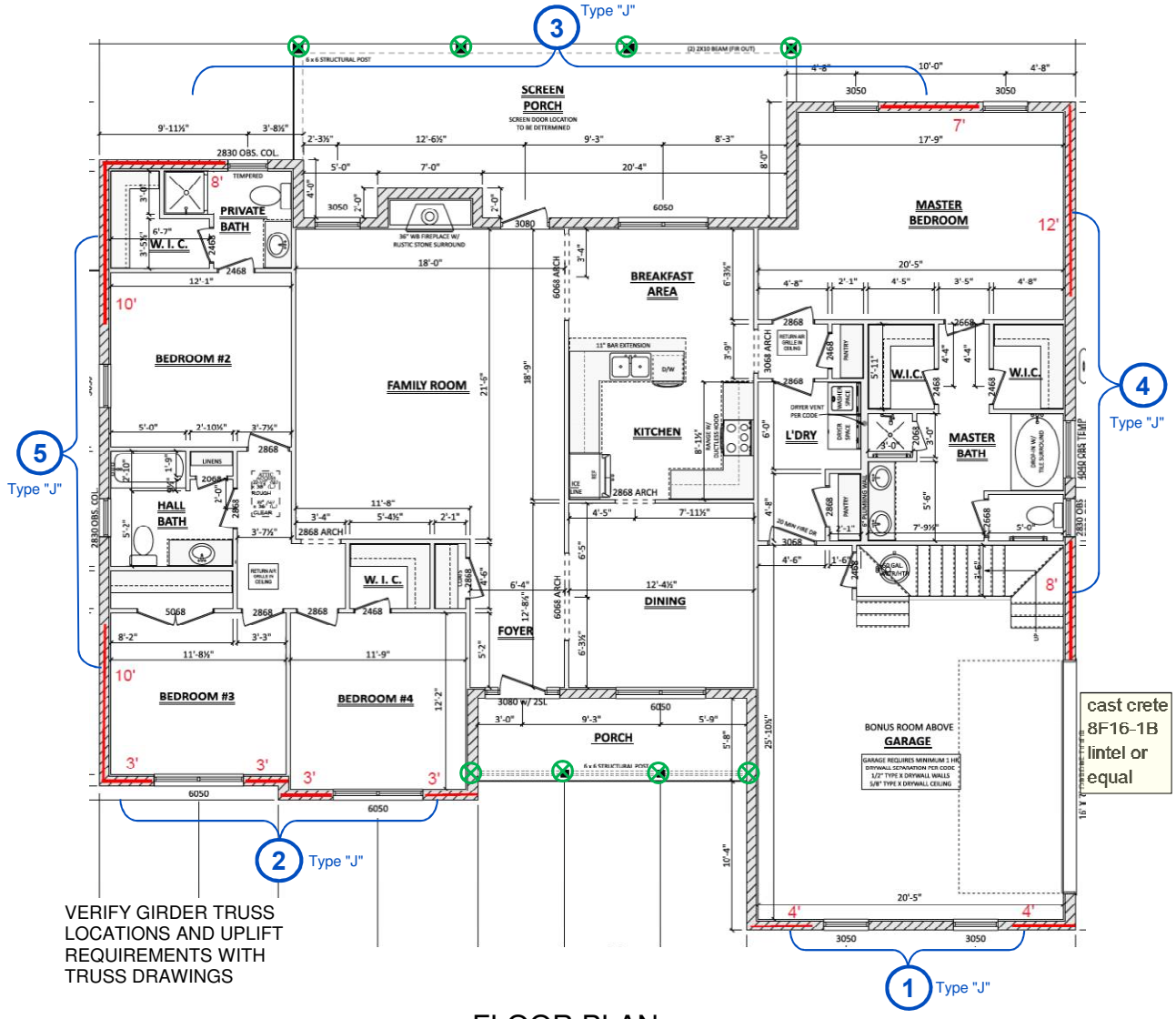
Job Location: SR 47, Lake City



VERIFY GIRDER TRUSS LOCATIONS AND UPLIFT REQUIREMENTS WITH TRUSS DRAWINGS

ALL BEAM SIZES AS PER HOME PLANS OR TRUSS COMPANY

FLOOR PLAN

SEE TRUSS DRAWINGS FOR POSSIBLE INTERIOR BRG/UPLIFT REQUIREMENTS.

Refer to page 3 for Shear Wall Panel Types

LEGEND	
#	WALL NUMBER
#	WALL LENGTH
▬	EXTERIOR SHEAR WALL
⊗	COLUMN LOCATION

SEE ROOF TRUSS DRAWINGS FOR TRUSS BRACING

Red lines indicate shear wall areas.
Column may be a stud pak

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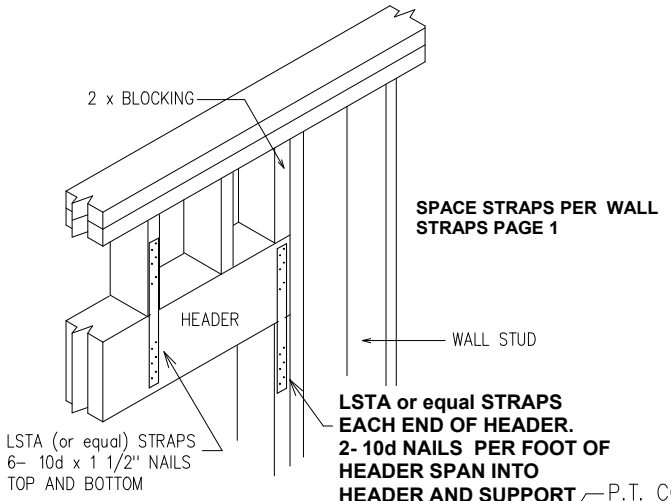
SEE ATTACHED DETAILS.

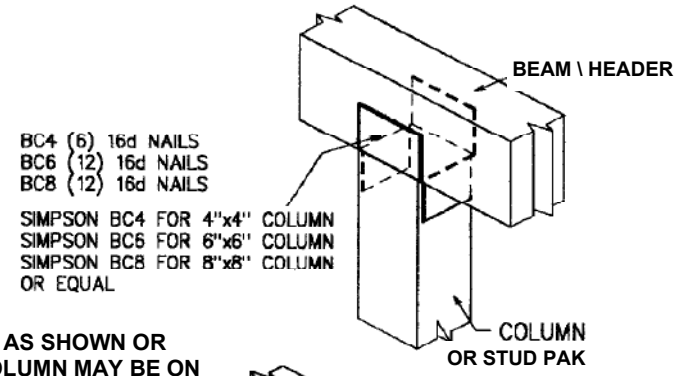
LOCATION PLAN	
	L-1



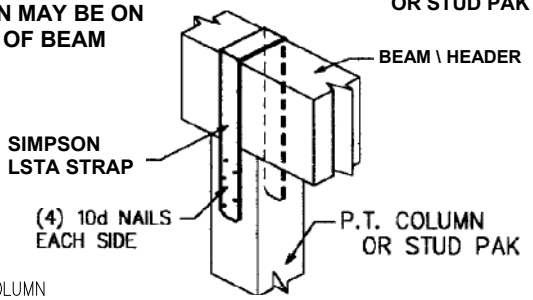
SPACE STRAPS PER WALL STRAPS PAGE 1

LSTA or equal STRAPS EACH END OF HEADER. 2- 10d NAILS PER FOOT OF HEADER SPAN INTO HEADER AND SUPPORT

HEADER CONN.

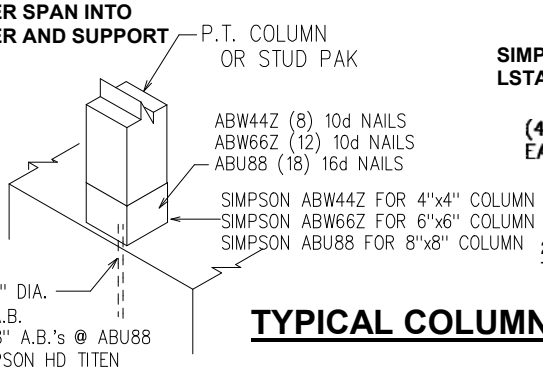


AS SHOWN OR COLUMN MAY BE ON TOP OF BEAM

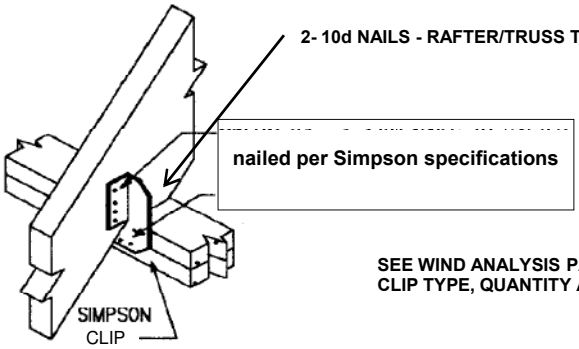


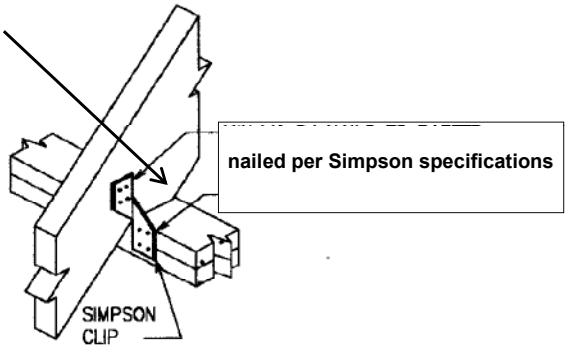
2 STRAPS REQ. WHEN BEAM IS NOT CONTINUOUS

2 LSTA STAPS (1 EACH SIDE) MAY BE USED W/4 10d NAILS TOP AND BOTTOM EACH SIDE



TYPICAL COLUMN CONNECTION DETAILS

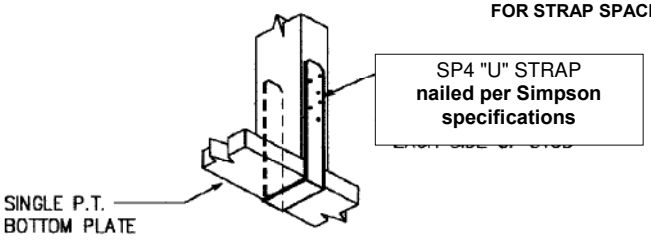


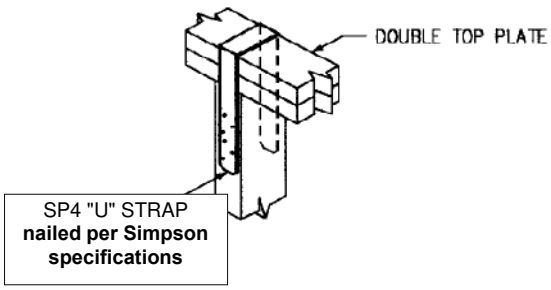


SEE WIND ANALYSIS PAGE 1 FOR CLIP TYPE, QUANTITY AND SPACING.

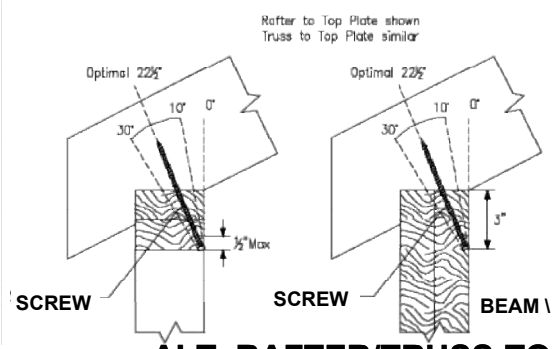
HURRICANE CLIP DETAILS

SEE WIND ANALYSIS PAGE 1 FOR STRAP SPACING.





"U" STRAP DETAILS



SIMPSON SDWC1560 OR TIMBERLOK OR (EQUAL) SCREWS MAY BE USED IN LIEU OF THE HURRICANE CLIPS SPECIFIED ON PAGE 1 . (NOTE: GIRDER TRUSSES REQUIRE TYPICAL HOLD-DOWN CONNECTORS)

REFER TO TRUSS COMPANY UPLIFT PRESSURES AND maximum horizontal design Reaction AND SCREW MANUFACTURES SPECIFICATIONS.

NOTE: VERIFY WOOD SPECIES WHEN DETERMINING UPLIFT VALUES

ALT. RAFTER/TRUSS TO WALL/BEAM CONN.

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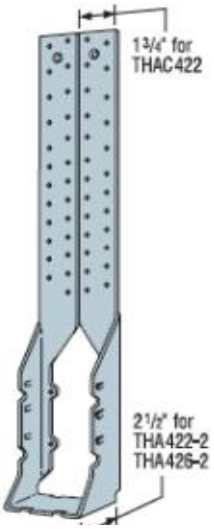
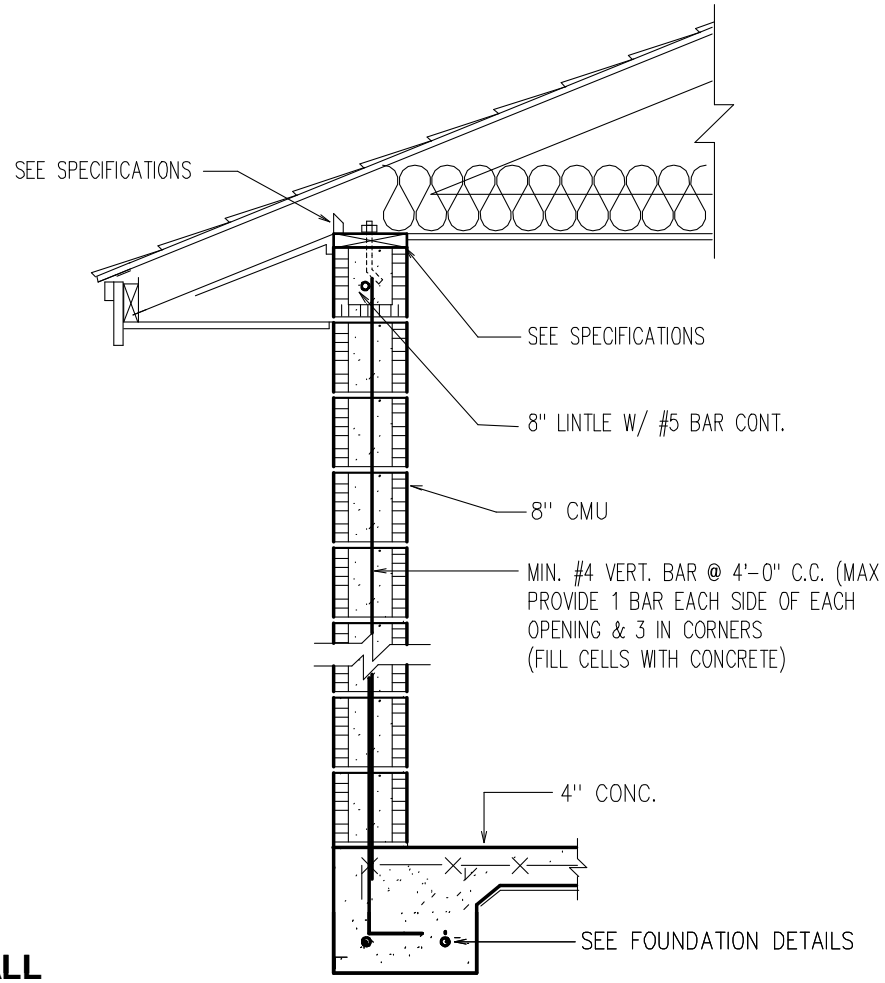
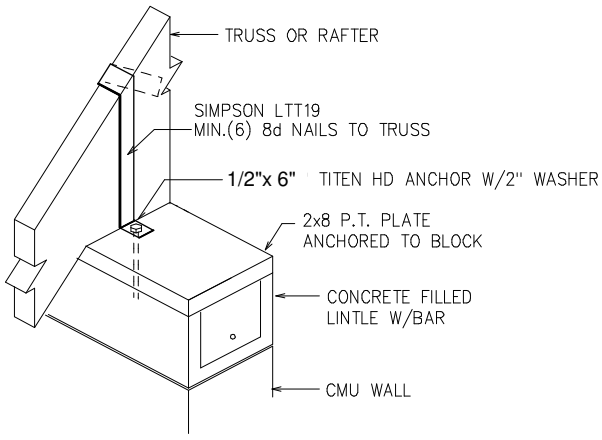
HOLD DOWN CONNECTIONS	
	S-1



PORCH BEAM TO WALL
SIMPSON THAC418 HANGER



TYPICAL CMU WALL DETAIL



TRUSS TO WALL CONNECTION

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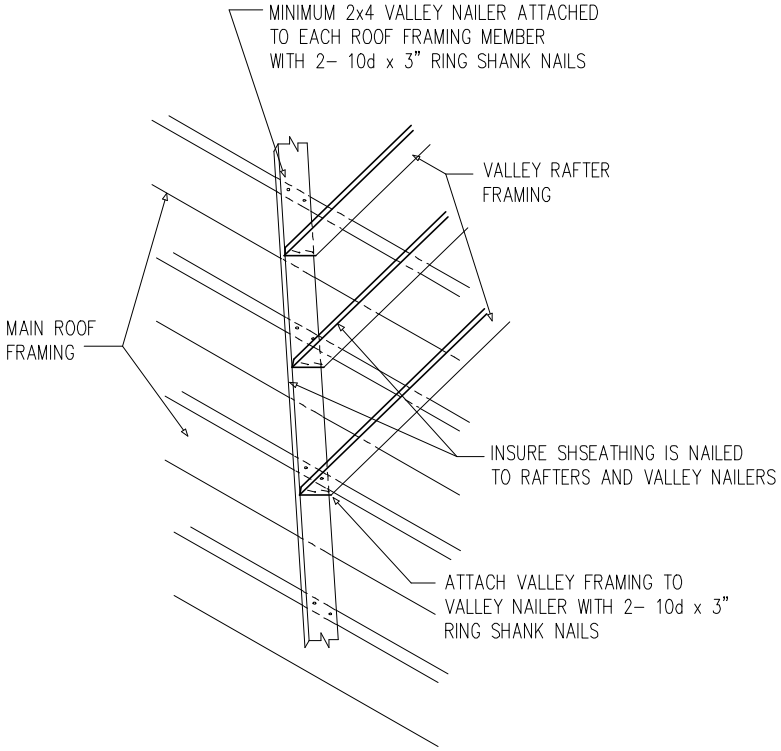
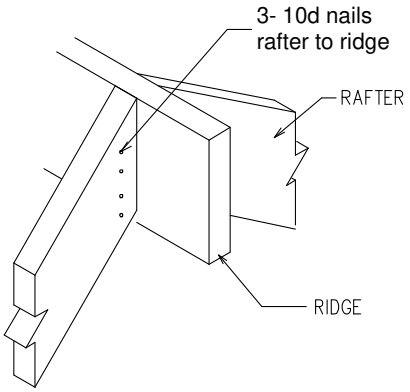
DETAILS	
	S-2

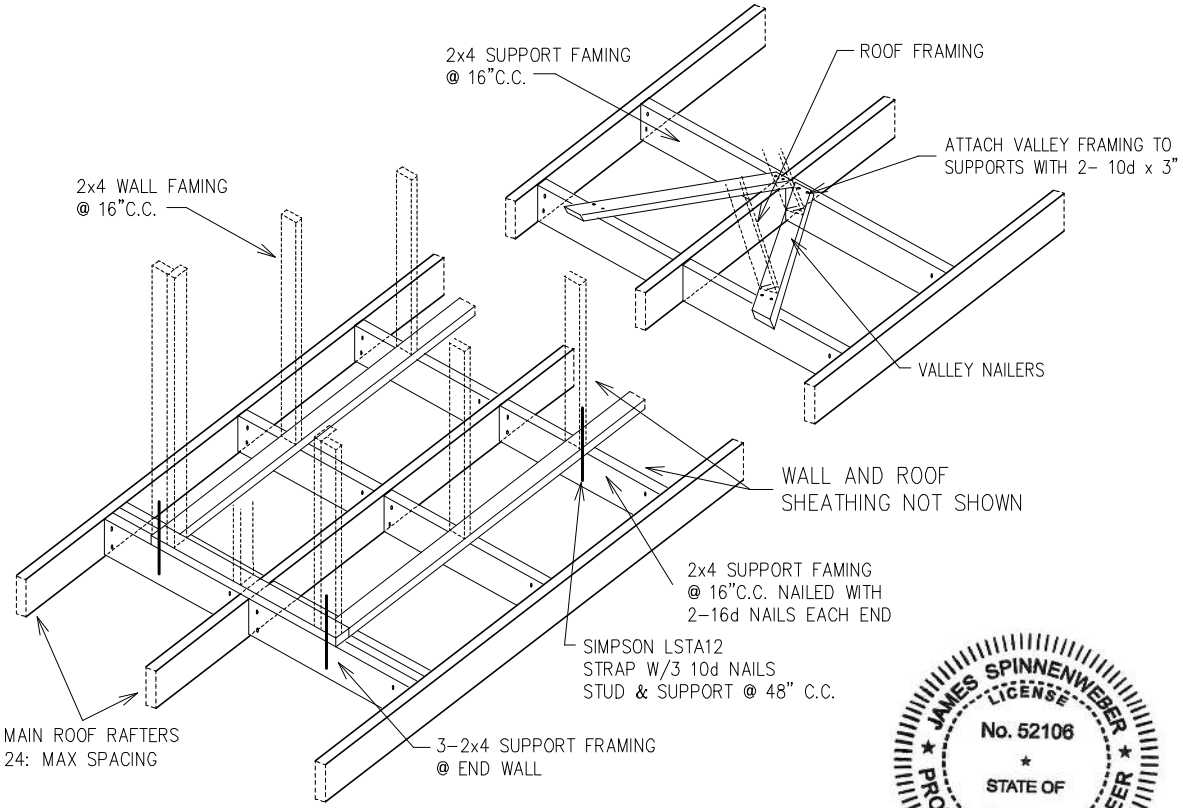


VALLEY FRAMING DETAIL



RAFTER TO RIDGE DETAIL

ROOF SHEATHING TO BE NAILED PER PAGE 1, (ROOF SHEATHING) SPECIFICATIONS UNLESS NOTED ON PAGE L-1



DORMER FRAMING DETAIL

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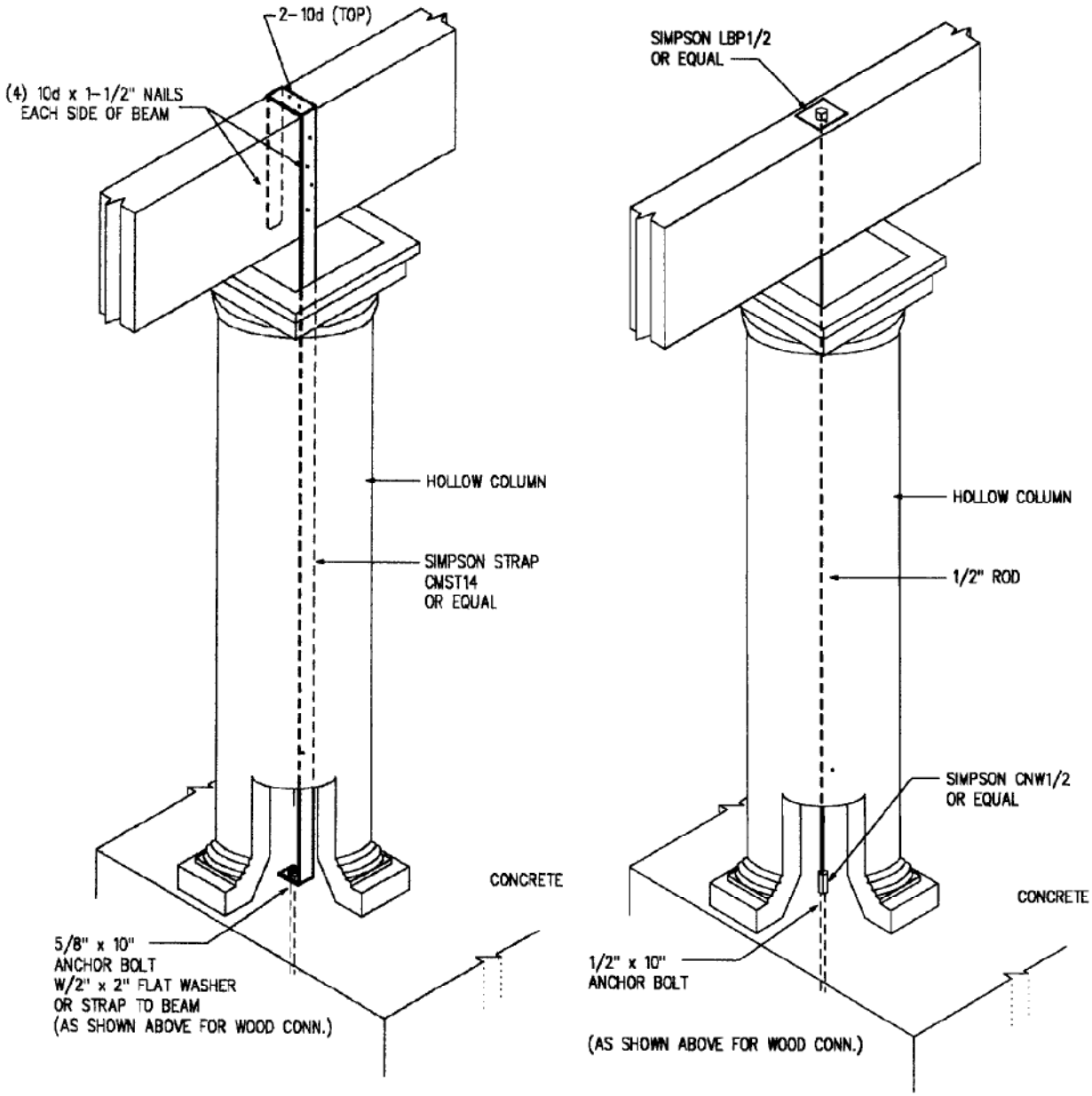
FRAMING DETAILS	
	S-3



HOLLOW COLUMN CONNECTION

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HOLLOW COLUMN DETAILS	
	S-4

GABLE END SECTION

GABLE END

GABLE END WIND BRACING

NTS

1. H LESS THAN 4'-6" - NO STUD BRACING REQUIRED.
2. H GREATER THAN 4'-6" TO 7'-6" IN LENGTH
PROVIDE A 2" X 6" STIFFBACK AT MID-HEIGHT AND BRACE STIFFBACK
TO ROOF DIAPHRAGM EVERY 6'-0"
3. H GREATER THAN 7'-6" TO 12'-0" MAX.
PROVIDE A 2" X 6" STIFFBACK AT MID-HEIGHT AND BRACE
TO ROOF DIAPHRAGM EVERY 4'-0"

SEE TRUSS DRAWINGS FOR GABLE END BRACING. WHEN BRACING IS NOT SHOWN ON TRUSS DRAWINGS BY TRUSS MANUFACTURER, SEE DETAIL ABOVE FOR BRACING

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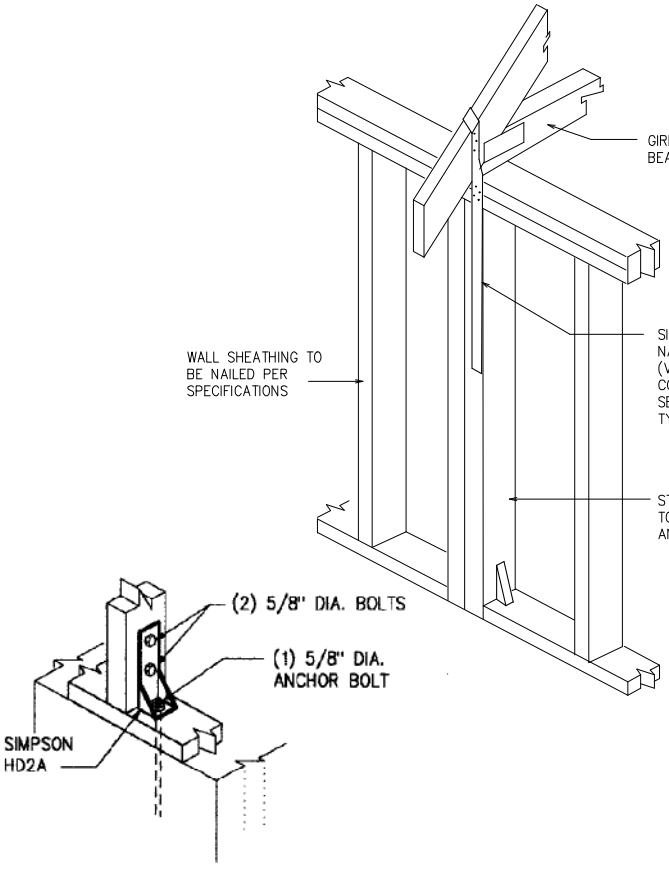
GABLE END BRACE DETAIL	
	S-5

Model No.	Qty.	No. of Plies	O.C. Dim. Between Anchors	Fasteners: Nails or Anchor Diameter	Fasteners: Girder	DF/SP Allowable Uplift Loads (160)	SPF/HF Allowable Uplift Loads (160)
LGT2	1	2 ply	—	14-16d Sinkers	16-16d Sinkers	2050	1785
LGT3-SDS2.5	1	3 ply	—	26-16d Sinkers	12-SDS ¼"x2½"	3685	2655
LGT4-SDS3	1	4 ply	—	30-16d Sinkers	16-SDS ¼"x3"	4060	2925[6]
MGT	1	2 ply min.	—	1-½	22-10d	3965	3300
VGT	1	2 ply min.	—	1-½	16-SDS ¼"x3"	4940	3555
	2	2 ply min.	—	2-½	32-SDS ¼"x3"	7185	5175
		3 ply min.	—	2-½	32-SDS ¼"x3"	8890	6400
VGTR/L	1	2 ply min.	—	1-½	16-SDS ¼"x3"	2230	1605
	2	2 ply min.	—	2-½	32-SDS ¼"x3"	5545	3990
HGT-2	1	2 ply	5¾	2-½	16-10d	10980	6485
HGT-3	1	3 ply	7⅜	2-½	16-10d	10530	9035
HGT-4	1	4 ply	9	2-½	16-10d	9250	9250

Model No.	Total L	Ga	DF/SP Fasteners 160	DF/SP End Length 160	SPF/HF Fasteners 160	SPF/HF End Length 160	Allowable Tension Loads (160)
CMST12	40'	12	74 - 16d	33"	84 - 16d	38"	9215
			86 - 10d	39"	98 - 10d	44"	9215
CMST14	52½'	14	56 - 16d	26"	66 - 16d	30"	6490
			66 - 10d	30"	76 - 10d	34"	6490
CMSTC16	54'	16	50 - 16d sinker	20"	58 - 16d sinker	25"	4585
CS14	100'	14	26 - 10d	15"	30 - 10d	16"	2490
			30 - 8d	16"	36 - 8d	19"	2490
CS16	150'	16	20-10d	11"	22 - 10d	12"	1705
			22 - 8d	13"	26 - 8d	14"	1705
CS18	200'	18	16 - 10d	9"	18 - 10d	10"	1370
			18 - 8d	11"	22 - 8d	12"	1370
CS20	250'	20	12 - 10d	6"	14 - 10d	8"	1030
			14 - 8d	9"	16 - 8d	9"	1030
CS22	300'	22	10 - 10d	7"	12 - 10d	7"	845
			12 - 8d	6"	14 - 8d	8"	845

SIMPSON STRAP AND GIRDER TIE DOWN LOAD TABLES



VERIFY GIRDER TRUSS LOCATIONS AND UPLIFT REQUIREMENTS WITH TRUSS DRAWINGS

When required :
Use simpson strap (see table) ,(from floor,over truss top chord, to floor) anchored to floor w/2- 1/2"x6" titen hd anchors or anchor column or stud pak to slab/foundation and nail strap(s) per table specs.

Optional tie downs may be used.

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GIRDER TIE-DOWN DETAILS	
	S-6