

TABLE A103.10 - UPLIFT CONNECTIONS - 130 MPH WINDS EXP "C"

CONNECTION	FRAMING SPACING (INCHES)	ROOF SPAN (FEET)	U	L	S	NUMBER OF 3d COMMON NAILS OR 10d BOX NAILS IN EACH END OF 1/4"x20 GA STRAP
ROOF ASSEMBLY TO WALL ASSEMBLY	16 OC	11	366	246	10#R	4
WALL ASSEMBLY TO WALL ASSEMBLY	16 OC	11	366	246	10#R	4
WALL ASSEMBLY TO WALL ASSEMBLY	16 OC	11	366	246	10#R	4
HEADER TO HEADER (FACE VALUE)	16 OC	11	110	185	4#R	4

TABLE A103.11 - SILL OR BOTTOM PLATE TO FOUNDATION CONNECTIONS RESISTING UPLIFT LOADS - 130 MPH WIND EXP "B"

BOTTOM PLATE TO FOUNDATION ANCHOR BOLT CONNECTION RESISTING	FOUNDATION SUPPORTING	8 END ZONES		INTERIOR ZONES	
		UPLIFT LOADS	1 - 3 STORES	23	33
BOTTOM PLATE TO FOUNDATION ANCHOR BOLT CONNECTION RESISTING	FOUNDATION SUPPORTING	1 - 3 STORES		MAXIMUM ANCHOR BOLT SPACING INCHES	
		UPLIFT LOADS	1 - 3 STORES	1/2" Ø ANCHOR BOLTS	5/8" Ø ANCHOR BOLTS

TABLE A103.9 - JACK STUD REQ - INTR LOADBEARING WALLS

HEADER SPAN (FT)	12 FEET			24 FEET		
	3"	4.5"	5"	3"	4.5"	5"
2	1	1	1	1	1	1
4	1	1	1	1	1	1
6	1	1	1	1	1	1
8	1	1	1	1	1	1
10	1	1	1	1	1	1
12	1	1	1	1	1	1
14	2	1	1	1	1	1
16	2	1	1	1	1	1
18	2	1	1	1	1	1
20	2	1	1	1	1	1
22	2	1	1	1	1	1
24	2	1	1	1	1	1
26	2	1	1	1	1	1
28	2	1	1	1	1	1
30	2	1	1	1	1	1

NUMBER OF JACK STUDS REQUIRED

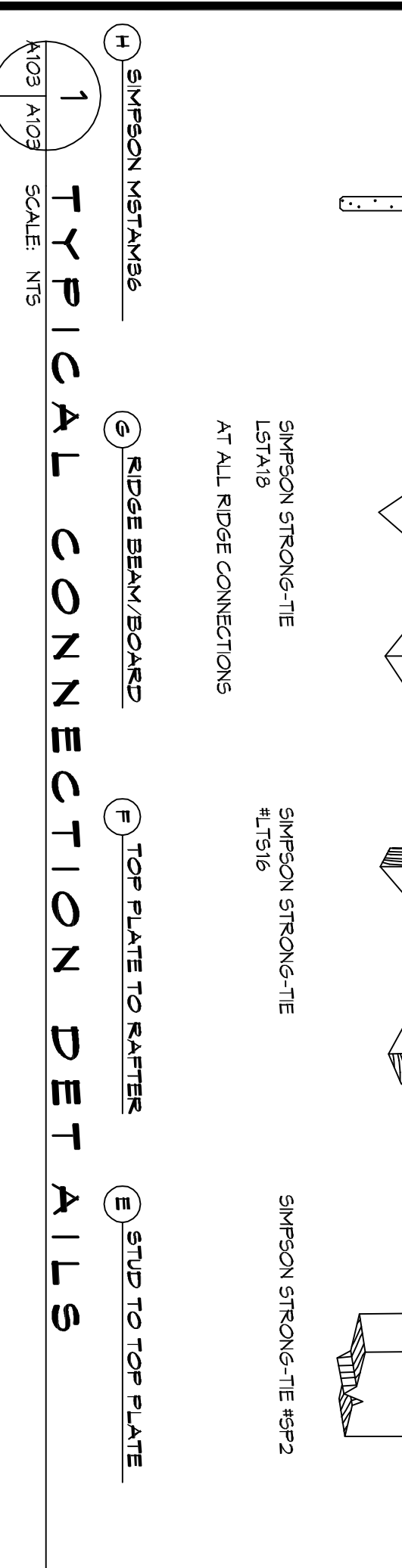
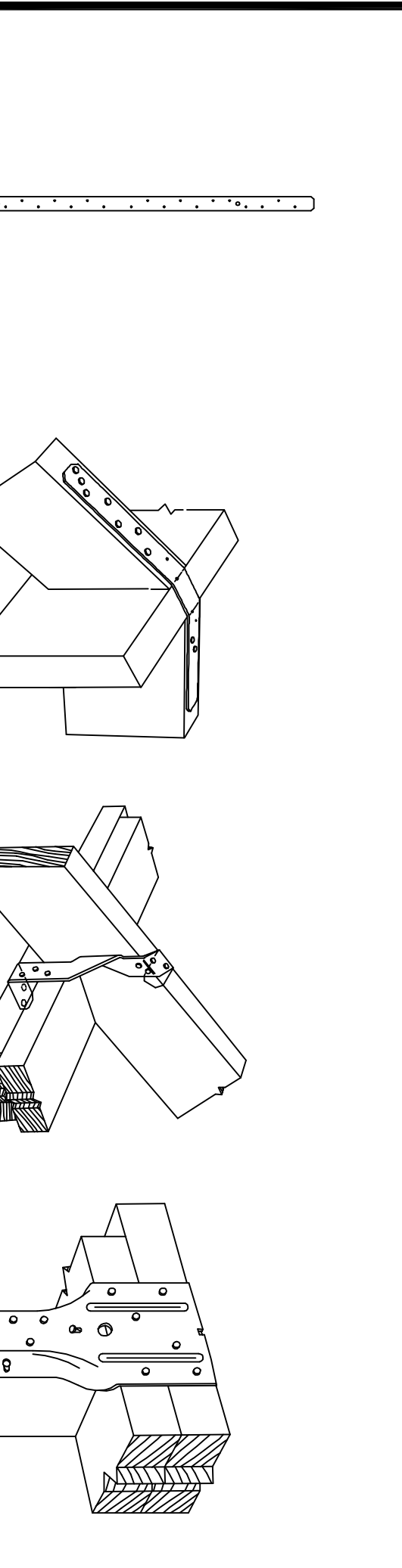
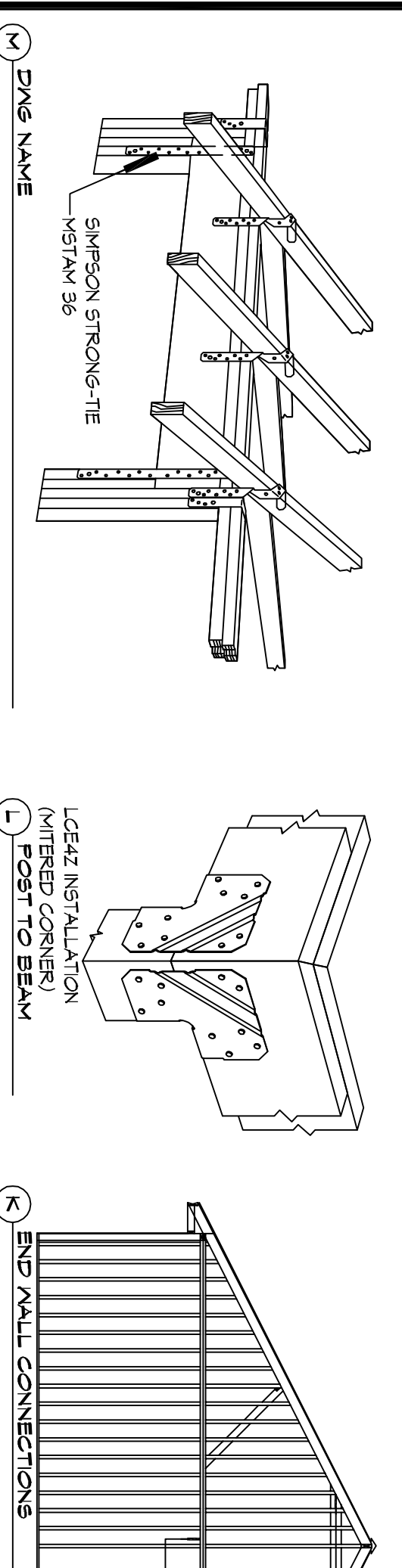
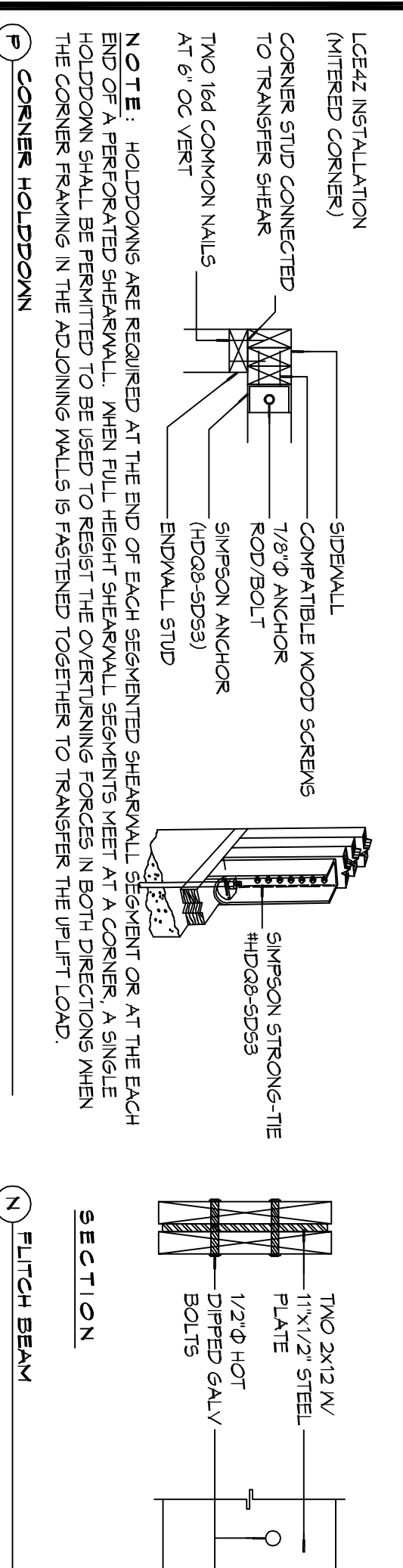


TABLE A103.8 - THERMAL COMPONENT CRITERIA (U-VALUE FACTOR & R-VALUE)

MAXIMUM GLAZING U-FACTOR	MINIMUM INSULATION R-VALUE				CEILING SPACE WALLS
	CEILING	WALLS	FLOORS	BASMENT WALLS	
.75	R-26	R-13	R-11	R-5	R-5

DESIGN CRITERIA

THE CONSTRUCTION FOR SAID RESIDENCE WHERE BASIC WIND SPEED IS 130 MPH PER HOUR WIND EXPOSURE ZONE C, IS DESIGNED IN ACCORDANCE WITH: AMERICAN FOREST AND PAPER ASSOCIATION (AF&PA) WOOD FRAME CONSTRUCTION MANUAL FOR ONE AND TWO FAMILY DWELLINGS (NFCM) 2001 EDITION AS WELL AS THE INTERNATIONAL RESIDENTIAL CODE (IRC) 2012 EDITION.

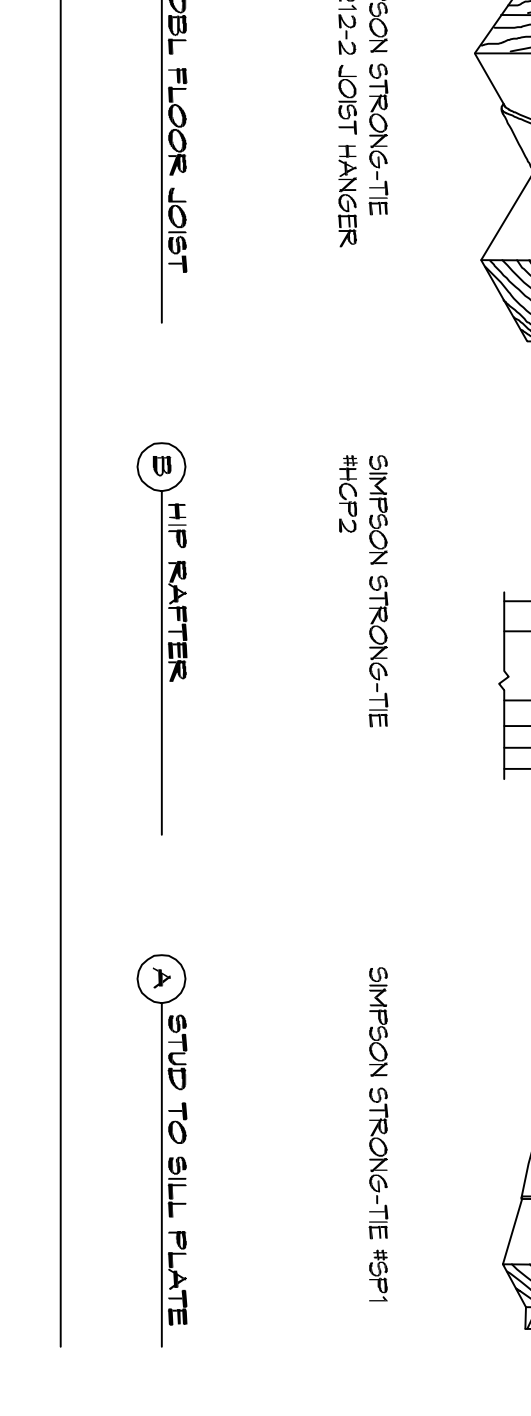
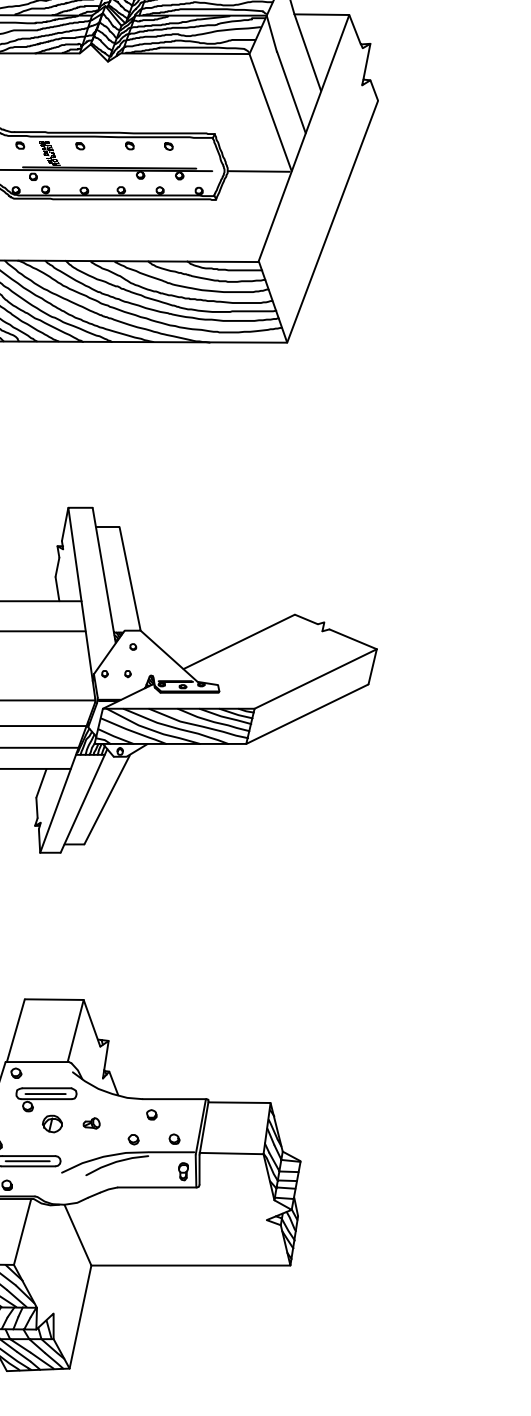
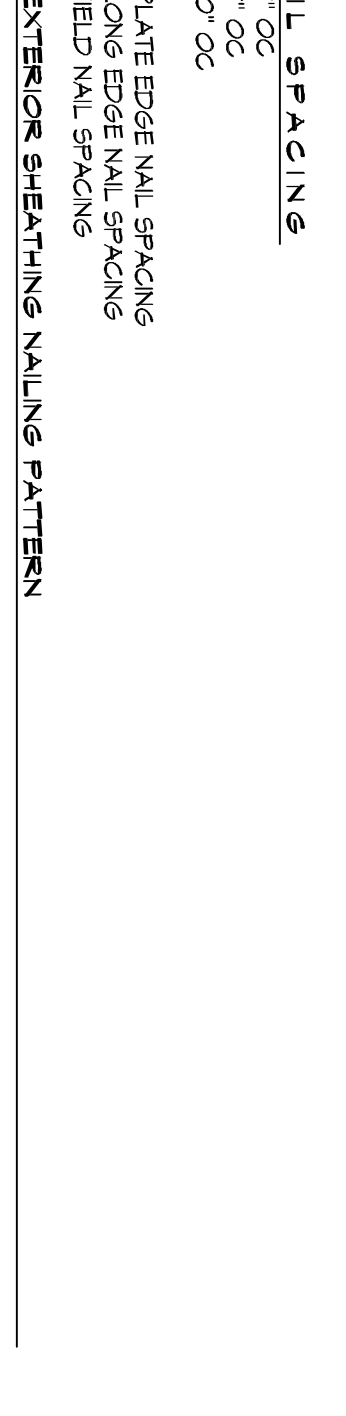
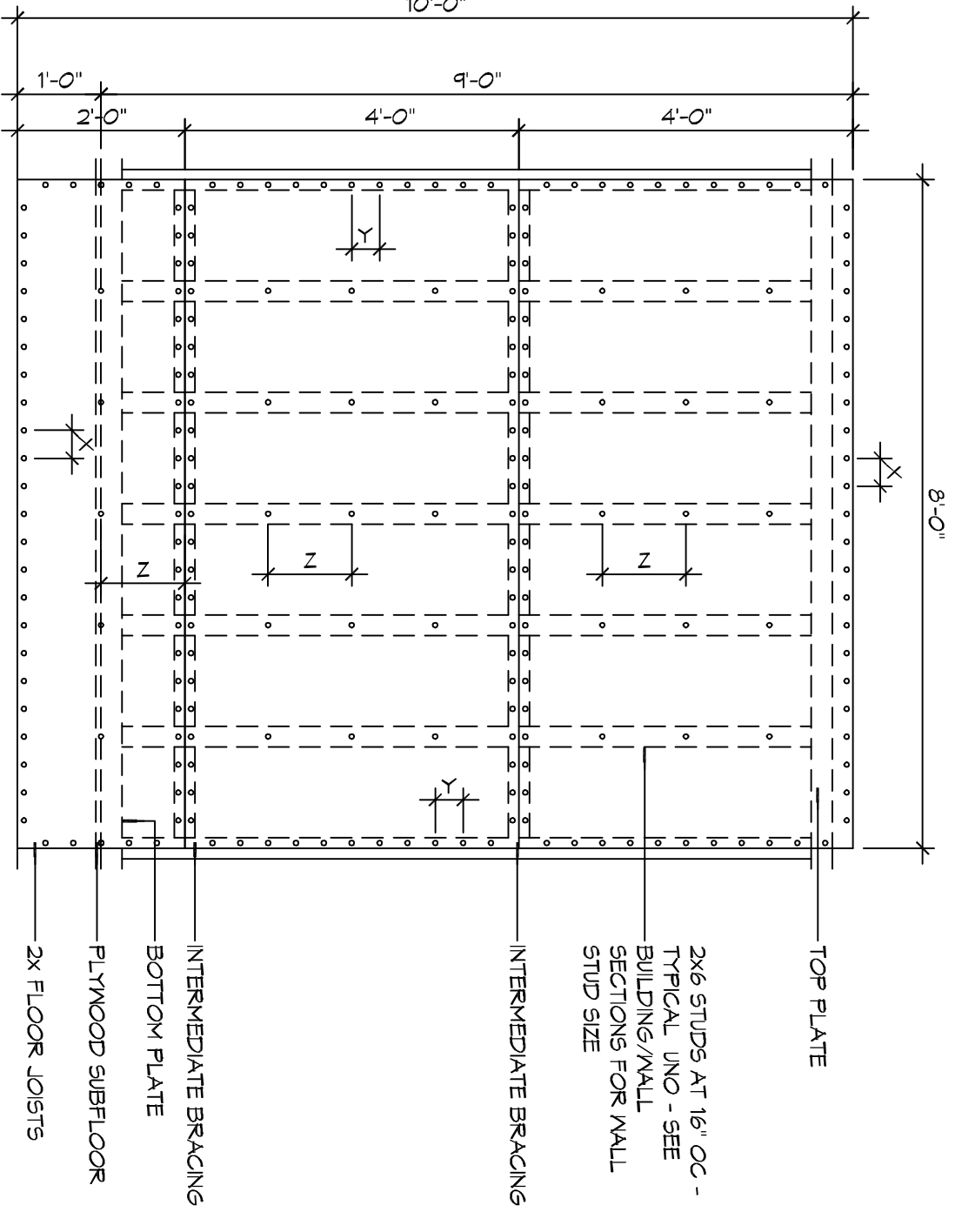


TABLE A103.3 - HEADER SPANS - INTERIOR LOADBEARING WALLS

HEADER SUPPORTING	SIZE	OPENING WIDTH (FT)		
		12	24	36
ONE FLOOR (CENTER BEAMS)	(2) 2x4	4'-4"	3'-1"	2'-6"
	(2) 2x6	6'-5"	4'-6"	3'-0"
	(2) 2x8	8'-1"	5'-4"	4'-0"
	(2) 2x10	9'-11"	7'-0"	5'-4"
	(2) 2x12	11'-6"	8'-1"	6'-7"
	(3) 2x6	10'-2"	7'-2"	5'-10"
	(3) 2x10	12'-5"	8'-4"	7'-2"
	(3) 2x12	14'-4"	10'-2"	8'-9"
	(4) 2x6	11'-6"	8'-3"	6'-4"
	(4) 2x10	14'-4"	10'-1"	8'-9"
TWO FLOORS ONLY (CENTER BEAMS)	(2) 2x4	2'-10"	2'-1"	1'-9"
	(2) 2x6	4'-2"	3'-1"	2'-6"
	(2) 2x8	5'-4"	3'-11"	3'-3"
	(2) 2x10	6'-6"	4'-4"	4'-7"
MAXIMUM SPAN 16'-0"	(3) 2x10	8'-1"	6'-0"	4'-11"
	(4) 2x6	7'-8"	5'-8"	4'-0"
	(4) 2x10	9'-4"	6'-10"	5'-0"
	(4) 2x12	10'-10"	8'-0"	6'-7"

TABLE A103.4 - ROOF SHEATHING OR CLADDING REQUIREMENT - WIND LOAD EXP "C"

SHEATHING LOCATION	RAFTER / TRUSS SPACING	MAX NAIL SPACING FOR 6d COMMON NAILS (INCHES 0-0)	
		E	F
INTERIOR ZONE	12" OC	6	12
	16" OC	6	12
PERIMETER EDGE ZONE	12" OC	6	12
	16" OC	6	12
130 MPH WIND - EXPOSURE "C" TYPICAL	24" OC	6	6
	24" OC	6	6

TABLE A103.5 - WALL SHEATHING OR CLADDING REQUIREMENT - WIND LOAD EXP "C"

SHEATHING LOCATION	STUD SPACING	MAX NAIL SPACING FOR 6d COMMON NAILS (INCHES 0-0)	
		E	F
INTERIOR ZONE	12" OC	6	12
	16" OC	6	12
PERIMETER EDGE ZONE	12" OC	6	12
	16" OC	6	12
130 MPH WIND - EXPOSURE "C" TYPICAL	24" OC	6	6
	24" OC	6	6

TABLE A103.6 - WINDBORNE DEBRIS PROTECTION FASTENING SCHEDULE FOR WOOD STRUCTURAL PANELS

FASTENER TYPE	FASTENER SPACING		
	PANEL SPAN ≤ 4'	4' PANEL SPAN 5' Ø	6' PANEL SPAN 5' Ø
2 1/2" #6 WOOD SCREWS	16"	12"	9"
2 1/2" #8 WOOD SCREWS	16"	12"	12"

TABLE A103.7 - HEADER NAILING SCHEDULE

DESCRIPTION	NUMBER OF COMMON NAILS	NUMBER OF BOX NAILS	SPACING
HEADER TO HEADERS (FACE VALUE)			

TABLE A103.2 - JACK STUD REQ - EXPOSURE "C" FOR EXT LOADBEARING WALLS

HEADER SUPPORTING	HEADER SPAN (FT)	HEADER WIDTH		
		3"	4.5"	5"
ROOF AND CEILING	2	1	1	1
	4	1	1	1
	6	2	1	1
	8	2	2	2
	10	3	2	2
	12	3	2	2
	14	4	3	2
	16	4	3	2
	18	4	3	2
	20	4	3	2
ROOF CEILING AND ONE CENTER BEARING FLOOR	6	2	2	2
	8	3	2	2
	10	4	3	2
	12	4	3	2
HEADER WIDTHS (2x2), 4.5" (3x2), 5", 6.5" (4x2) EACH WITH 1/2" PLYWOOD SPACER BETWEEN	16	5	4	3
	18	5	4	3
	20	5	4	3
	22	5	4	3

ROOF UNDERLAYMENT APPLICATION NOTES

- FOR ROOF SLOPES FROM TWO INTS. VERTICAL IN 12 INTS. HORIZONTAL (13 PERCENT SLOPE) UP TO FOUR INTS. VERTICAL IN 12 INTS. HORIZONTAL (33 PERCENT SLOPE), UNDERLAYMENT SHALL BE TWO LAYERS APPLIED IN THE FOLLOWING MANNER:
 - APPLY A 14 INCH STRIP OF UNDERLAYMENT FELT PARALLEL WITH AND STARTING AT THE EAVE, FASTENED SUFFICIENTLY TO HOLD IN PLACE STARTING AT THE EAVE, APPLY 36 INCH WIDE SHEETS OF UNDERLAYMENT OVERLAPPING SUCCESSIVE SHEETS 18 INCHES, AND FASTENED SUFFICIENTLY TO HOLD IN PLACE.
 - FOR ROOF SLOPES OF FOUR INTS. VERTICAL IN 12 INTS. HORIZONTAL (33 PERCENT SLOPE) OR GREATER, UNDERLAYMENT SHALL BE ONE LAYER APPLIED IN THE FOLLOWING MANNER:
 - UNDERLAYMENT SHALL BE APPLIED SINGLE PLY, PARALLEL TO THE DIRECTION OF THE ROOF SLOPE, FASTENED SUFFICIENTLY TO HOLD IN PLACE. END LAPS SHALL BE OFFSET BY 6 FEET.

SHINGLE APPLICATION & FASTENING NOTES

- ASPHALT SHINGLE SHINGLES SHALL HAVE A MINIMUM OF SIX FASTENERS PER SINGLE WHERE THE ROOF IS IN ONE OF THE FOLLOWING CATEGORIES:
 - THE BRGIC WIND SPEED IS 110 MPH OR GREATER AND THE EAVE IS 20 FEET OR GREATER FROM THE GROUND.
 - THE BRGIC WIND SPEED IS 120 MPH OR GREATER AND THE EAVE IS 20 FEET OR GREATER FROM THE GROUND.

GENERAL UPLIFT CONNECTION NOTES

ROOF ASSEMBLY TO WALL ASSEMBLY:
 UPLIFT CONNECTIONS SHALL BE FROM EXTERIOR OR TRUSS TO WALL STUD WHEN RAFTERS OR TRUSSES ARE NOT LOCATED DIRECTLY ABOVE STUDS. RAFTERS SHALL BE ATTACHED TO THE WALL STUD AND THE WALL STUD SHALL BE ATTACHED TO THE WALL STUD WITH UPLIFT CONNECTIONS. UPLIFT CONNECTIONS SHALL BE IN ACCORDANCE WITH TABLE A103.10.

WALL ASSEMBLY TO WALL ASSEMBLY:
 UPLIFT CONNECTIONS SHALL BE IN ACCORDANCE WITH TABLE A103.10.

WALL ASSEMBLY TO FOUNDATION:
 UPLIFT CONNECTIONS SHALL BE IN ACCORDANCE WITH TABLE A103.11.

MINIMUM ANCHOR BOLT TO FOUNDATION:
 UPLIFT CONNECTIONS SHALL BE IN ACCORDANCE WITH TABLE A103.11.

MINIMUM ANCHOR BOLT TO FOUNDATION:
 UPLIFT CONNECTIONS SHALL BE IN ACCORDANCE WITH TABLE A103.11.

TABLE A103.1 - HEADER SPANS - EXPOSURE "C" FOR EXTERIOR LOADBEARING WALLS

HEADER SIZE	SPAN	NUMBER FULL HEIGHT STUDS REQ AT END	
		TWO	THREE
(2) 2x4	4'-1"	TWO	THREE
(2) 2x6	5'-6"	THREE	THREE
(2) 2x8	6'-11"	THREE	THREE
(2) 2x10	6'-8"	THREE	THREE
(2) 2x12	7'-1"	THREE	THREE
(3) 2x6	7'-5"	THREE	THREE
(3) 2x8	8'-3"	THREE	THREE
(3) 2x10	8'-1"	THREE	THREE
(4) 2x6	9'-6"	THREE	THREE
(4) 2x12	10'-0"	FOUR	THREE

TABLE A103.1 - HEADER SPANS - EXPOSURE "C" (TYPICAL) EACH WITH 1/2" PLYWOOD SPACER

NOTE:
 1. BUILDING WIDTH IS MEASURED PERPENDICULAR TO THE RIDGE. FIRE MINDS BETWEEN THOSE SHOWN SPANS ARE PERMITTED TO BE INTERPOLATED.
 2. ALL HEADERS SHALL HAVE SOLID BLOCKING.

TABLE A103.2 - JACK STUD REQ - EXPOSURE "C" FOR EXT LOADBEARING WALLS

HEADER SUPPORTING	HEADER SPAN (FT)	HEADER WIDTH		
		3"	4.5"	5"
ROOF AND CEILING	2	1	1	1
	4	1	1	1
	6	2	1	1
	8	2	2	2
	10	3	2	2
	12	3	2	2
	14	4	3	2
	16	4	3	2
	18	4	3	2
	20	4	3	2
ROOF CEILING AND ONE CENTER BEARING FLOOR	6	2	2	2
	8	3	2	2
	10	4	3	2
	12	4	3	2
HEADER WIDTHS (2x2), 4.5" (3x2), 5", 6.5" (4x2) EACH WITH 1/2" PLYWOOD SPACER BETWEEN	16	5	4	3
	18	5	4	3
	20	5	4	3
	22	5	4	3

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REVISIONS

#	DESCRIPTION	DATE

RENOVATIONS AND ADDITIONS TO WOOD FRAME TYPICAL CONNECTION DETAILS, SCHEDULES, AND NOTES

1030 W. SHIRLEY STREET
 METAIRIE, LA 70003

JOB No: 2011 DATE: 01-09-11
 DRAWN BY: JTL CHECKED BY: BAM

A103

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