

UPLIFT CONNECTIONS-130MPH WINDS EXPOSURE "C"

CONNECTION	FRAMING SPACING (in.)	ROOF SPAN (ft.)	U	L	S	NUM. OF 8d COM. NAILS OR 10d BOX NAILS IN EA. END OF 1-1/4"X20 GA. STRAP
ROOF ASSEMBLY TO WALL ASSEMBLY	16" O.C.	17	386	246	109R	4
WALL ASSEMBLY TO WALL ASSEMBLY	16" O.C.	17	386	246	109R	4
WALL ASSEMBLY TO FOUNDATION	16" O.C.	17	170	185	436	4

THERMAL COMPONENT CRITERIA (U-FACTOR AND R-VALUE)

MAX. GLAZING U-FACTOR	MINIMUM INSULATION R-VALUE				
	CEILINGS	WALLS	FLOORS	BASEMENT WALLS	CRAWL SPACE WALLS
.75	R-26	R-13	R-11	R-5	R-5

WINDBORNE DEBRIS PROTECTION FASTENING SCHEDULE FOR WOOD STRUCTURAL PANELS

FASTENER TYPE	FASTENER SPACING		
	PANEL SPAN ≤ 4 FOOT	4 FOOT PANEL SPAN ≤ 6 FOOT	6 FOOT PANEL SPAN ≤ 8 FOOT
2-1/2" #6 WOOD SCREWS	16"	12"	9"
2-1/2" #8 WOOD SCREWS	16"	16"	12"

WINDOWS IN BUILDINGS LOCATED IN WIND BORNE DEBRIS REGIONS SHALL HAVE GLAZED OPENINGS PROTECTED FROM WINDBORNE DEBRIS. WOOD STRUCTURAL PANELS WITH A MIN. THICKNESS OF 7/16" AND A MAX. SPAN OF 8 FEET SHALL BE PERMITTED FOR OPENING PROTECTION IN ONE AND TWO STORY BUILDINGS. PANELS SHALL BE PRECUT TO COVER THE GLAZED OPENINGS WITH ATTACHMENT HARDWARE PROVIDED.

JACK STUD REQUIREMENTS - INT LOADBEARING WALLS

HEADER SUPPORTING	HEADER SPAN (ft.)	ROOF SPAN (ft.)															
		12 FEET				24 FEET				36 FEET							
		3'	4.5'	5'	6.5'	3'	4.5'	5'	6.5'	3'	4.5'	5'	6.5'				
ROOF AND CEILING	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	8	1	1	1	1	2	1	1	1	2	2	2	2	1	1	1	1
	10	1	1	1	1	2	2	1	1	3	2	2	2	2	2	2	2
	12	1	1	1	1	2	2	2	1	3	2	2	2	2	2	2	2
	14	2	1	1	1	3	2	2	2	4	3	3	2	2	2	2	2
	16	2	1	1	1	3	2	2	2	4	3	3	2	2	2	2	2
	ROOF, CEILING, AND 1 CENTER BEARING FLR.	4	1	1	1	1	2	1	1	1	3	2	2	2	2	2	2
		6	2	1	1	1	3	2	2	2	4	3	3	2	2	2	2
8		2	2	1	1	3	2	2	2	5	3	3	3	3	3	3	
10		2	2	2	1	4	3	3	2	6	4	4	4	4	4	4	
12		3	2	2	2	5	3	3	3	7	5	5	5	5	5	5	
14		3	2	2	2	5	4	3	3	8	5	5	5	5	5	5	

HEADER WIDTH-3' (2-2X), 4.5' (3-2X), 5', 6.5' (4-2X) EACH W/ 1/2" PLYWD. SPACER BETWEEN

SILL OR BOTTOM PLATE TO FND CONNECTIONS RESISTING UPLIFT LOADS - 130MPH WINDS EXP "B"

BOTTOM PLATE TO FND. ANCHOR BOLT CONNECTION RESISTING	FOUNDATION SUPPORTING	MAX. ANCHOR BOLT SPACING (in.)	
		8' END ZONES	INTERIOR ZONES
UPLIFT LOADS	1-3 STORIES	28	33

SILL OR BOTTOM PLATE TO FND CONNECTIONS RESISTING SHEAR LOADS-130MPH WINDS EXP "B"

BOTTOM PLATE TO FND. ANCHOR BOLT CONNECTION RESISTING	FOUNDATION SUPPORTING	MAX. ANCHOR BOLT SPACING (in.)	
		1/2" ANG. BOLTS	5/8" ANG. BOLTS
SHEAR LOADS	1-3 STORIES	30	45

HEADER SPANS - INTERIOR LOADBEARING WALLS

HEADER SUPPORTING	SIZE	BLDG. WIDTH (ft.)			
		12	24	36	
		SPANS (ft.-in.)			
ONE FLOOR (CENTER BEARING)	(2)2x4S	4'-4"	3'-1"	2'-6"	
	(2)2x6S	6'-5"	4'-6"	3'-8"	
	(2)2x8S	8'-11"	5'-9"	4'-8"	
	(2)2x10S	9'-11"	7'-0"	5'-9"	
	(2)2x12S	11'-6"	8'-11"	6'-7"	
	(3)2x8S	10'-2"	7'-2"	5'-10"	
	(3)2x10S	12'-5"	8'-9"	7'-2"	
	(3)2x12S	14'-4"	10'-2"	8'-3"	
	(4)2x8S	11'-6"	8'-3"	6'-9"	
	(4)2x10S	14'-4"	10'-1"	8'-3"	
2 FLOORS ONLY (CENTER BEARING)	(2)2x4S	2'-10"	2'-1"	1'-8"	
	(2)2x6S	4'-2"	3'-1"	2'-6"	
	(2)2x8S	5'-4"	3'-11"	3'-3"	
	(2)2x10S	6'-6"	4'-9"	3'-11"	
	(2)2x12S	7'-6"	5'-6"	4'-7"	
	(3)2x8S	6'-8"	4'-10"	4'-0"	
	(3)2x10S	8'-11"	6'-0"	4'-11"	
	(3)2x12S	9'-5"	6'-11"	5'-9"	
	(4)2x8S	7'-8"	5'-8"	4'-8"	
	(4)2x10S	9'-4"	6'-10"	5'-8"	

* MAX. SPAN EXCEEDS 16' (SPANS LIM. TO 16')

NOTE: ALL HEADERS SHALL HAVE SOLID BLOCKING

ROOF SHEATH OR CLAD REQ - WIND LOAD EXP "C"

SHEATHING LOCATION	RAFTER/TRUSS SPAC	E		F	
		MAX. NAIL SPAC. FOR 8d COM. NAILS OR 10d BOX NAILS (INCHES, O.C.)		MAX. NAIL SPAC. FOR 8d COM. NAILS OR 10d BOX NAILS (INCHES, O.C.)	
INTERIOR ZONE	12" O.C.	6	12	6	12
	16" O.C.	6	12	6	12
	24" O.C.	6	12	6	12
PERIMETER EDGE ZONE	12" O.C.	6	12	6	12
	16" O.C.	6	12	6	12

130 MPH WINDS-EXPOSURE 'C' (TYP.)

HEADER SPANS-EXPOSURE C FOR EXTERIOR LOADBEARING WALLS

HEADER SIZE	SPAN	NUMBER FULL HEIGHT STUDS REQ AT EA END
(2)2x4S	4'-7"	2
(2)2x6S	5'-6"	2
(2)2x8S	6'-1"	3
(2)2x10S	6'-8"	3
(2)2x12S	7'-1"	3
(3)2x8S	7'-5"	3
(3)2x10S	8'-3"	3
(3)2x12S	8'-8"	3
(4)2x8S	8'-7"	3
(4)2x10S	9'-6"	3
(4)2x12S	10'-0"	4

130 MPH WINDS-EXPOSURE "C" (TYP.) EACH W/ 1/2" PLYWD. SPACER BETWEEN

NOTE: 1. BLDG. WIDTH IS MEASURED PERPENDICULAR TO THE RIDGE. FOR WIDTHS BETWEEN THOSE SHOWN, SPANS ARE PERMITTED TO BE INTERPOLATED. 2. ALL HEADERS SHALL HAVE SOLID BLOCKING.

JACK STUD REQ - EXP "C" FOR EXT LOADBEARING WALLS

HEADER SUPPORTING	HEADER SPAN (ft.)	HEADER WIDTH			
		3'	4.5'	5'	6.5'
ROOF AND CEILING	2	1	1	1	1
	4	1	1	1	1
	6	2	1	2	2
	8	2	2	2	2
	10	3	2	2	2
	12	3	2	2	2
	14	4	3	2	2
	16	4	3	3	2
	2	1	1	1	1
	4	2	1	1	1
ROOF, CEILING, AND 1 CENTER BEARING WALL	6	2	2	2	1
	8	3	2	2	3
	10	4	3	2	2
	12	4	3	3	2
	14	5	4	3	3
	16	5	4	3	3

HEADER WIDTH-3' (2-2X), 4.5' (3-2X), 5', 6.5' (4-2X) EACH W/ 1/2" PLYWD. SPACER BETWEEN

WALL SHEATH OR CLAD REQ FOR WIND LOAD-EXPOSURE "C"

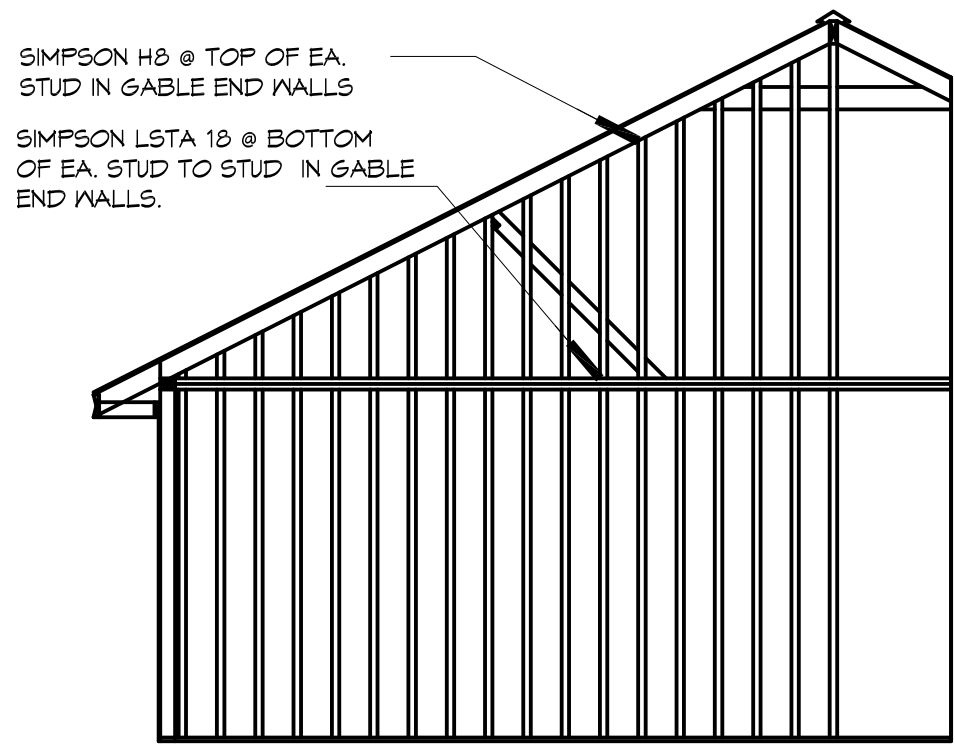
SHEATHING LOCATION	STUD SPACING	E		F	
		MAX NAIL SPACING FOR 8d COMMON NAILS OR 10d BOX NAILS (INCHES, O.C.)		MAX NAIL SPACING FOR 8d COMMON NAILS OR 10d BOX NAILS (INCHES, O.C.)	
INTERIOR ZONE	12" O.C.	6	12	6	12
	16" O.C.	6	12	6	12
	24" O.C.	6	12	6	12
PERIMETER EDGE ZONE	12" O.C.	6	12	6	12
	16" O.C.	6	12	6	12

130 MPH WINDS-EXPOSURE "C" (TYP.)

HEADER NAILING SCHEDULE

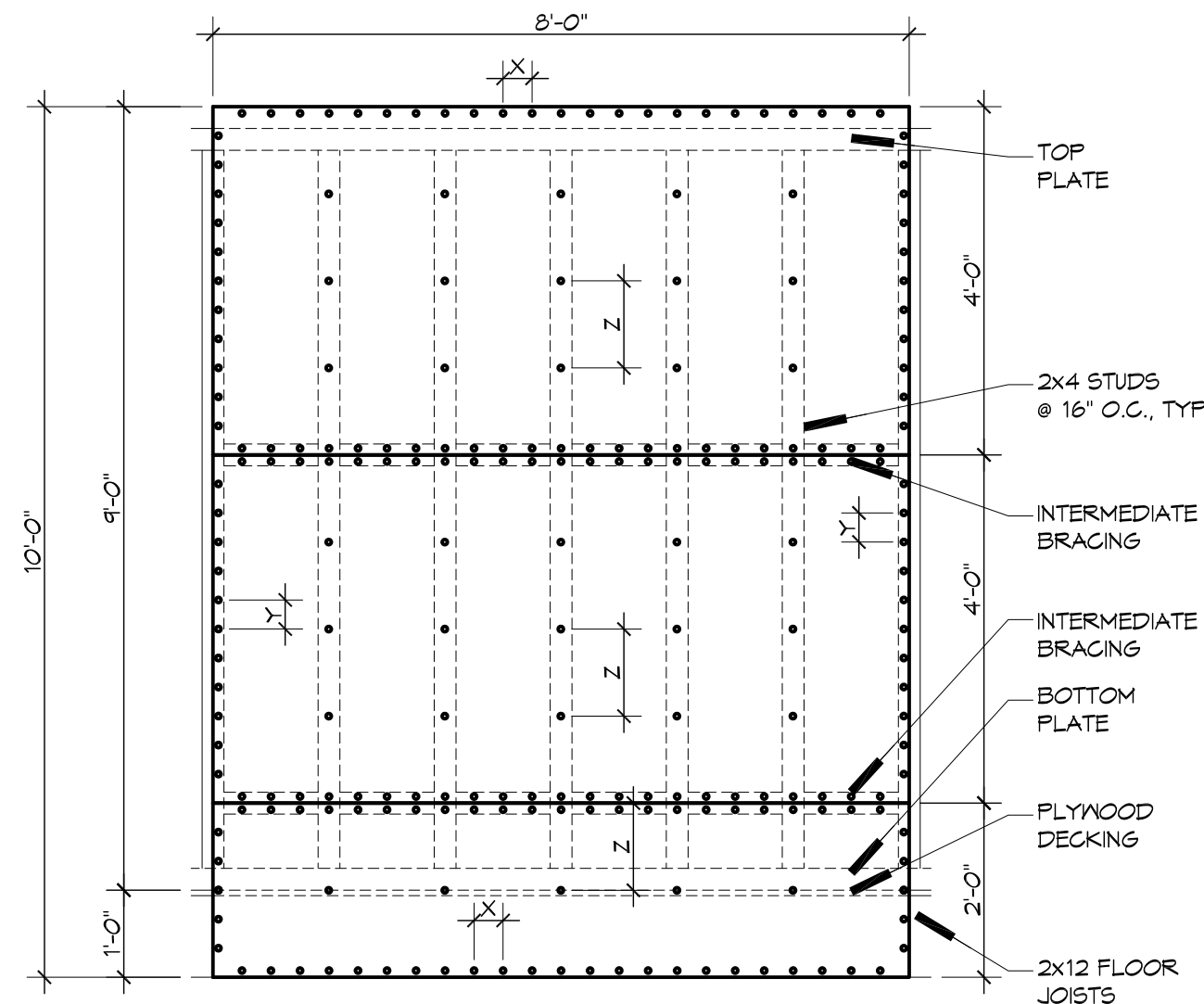
DESCRIPTION	NUM. OF COM. NAILS	NUM. OF BOX NAILS	SPACING
HEAD TO HEAD, (FACE-NAILED)	8d	10d	6" O.C. EDGES/ 12" O.C. FIELD

NOTE: ALL HEADERS SHALL HAVE SOLID BLOCKING

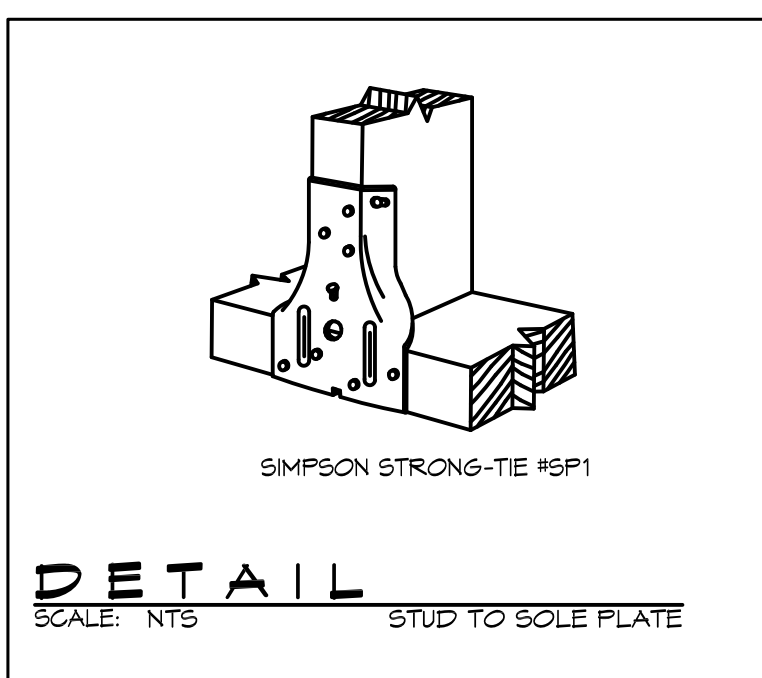
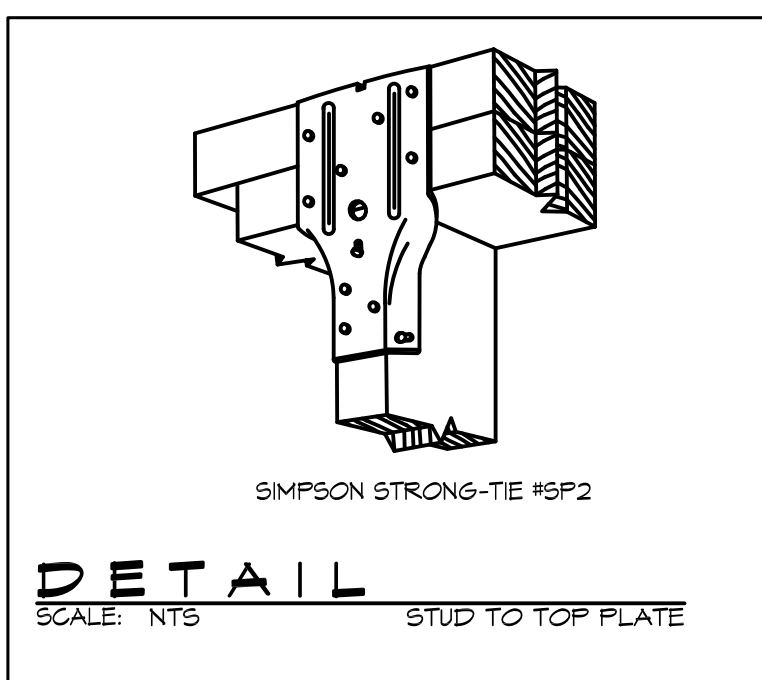
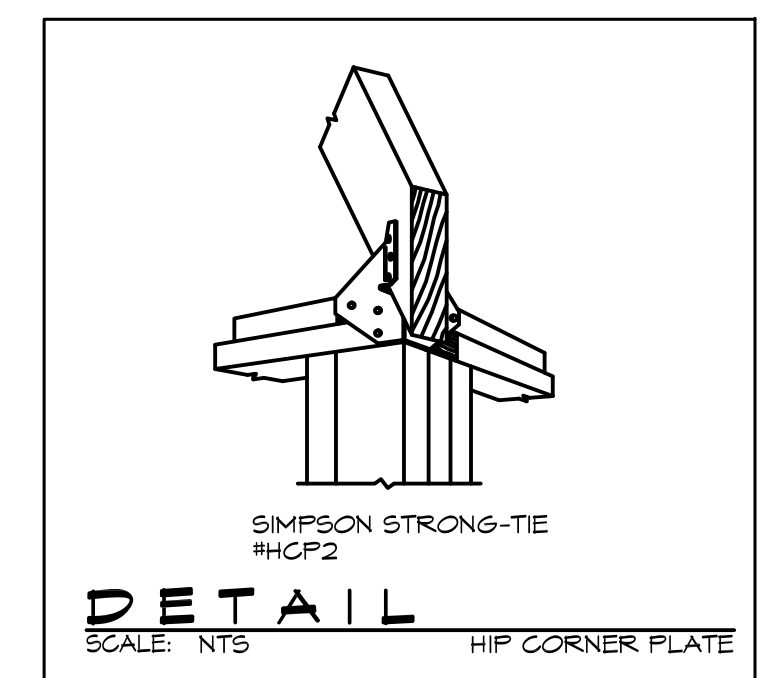
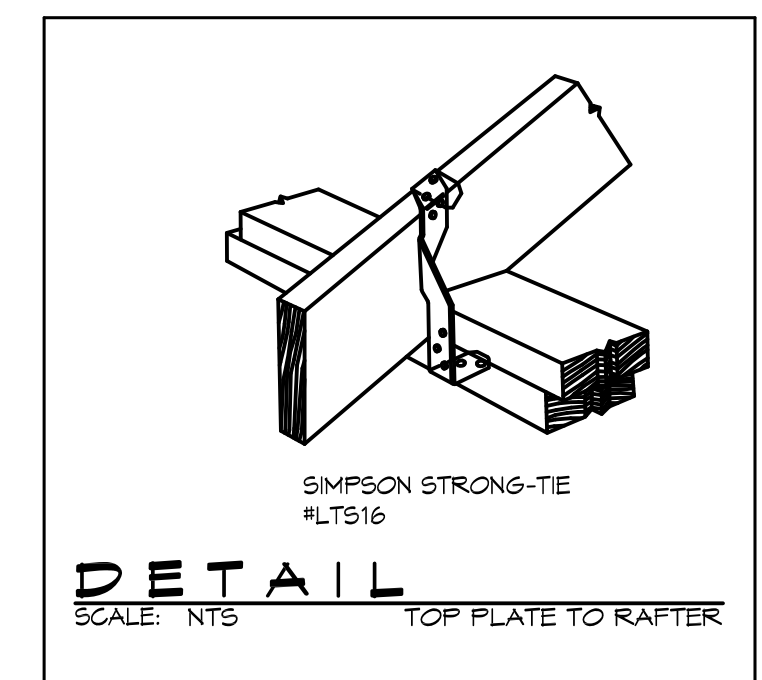
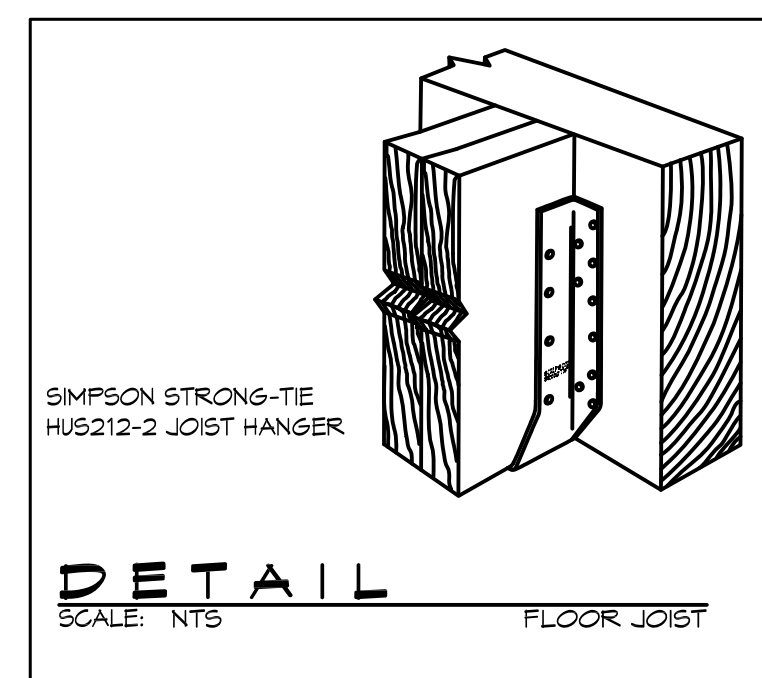
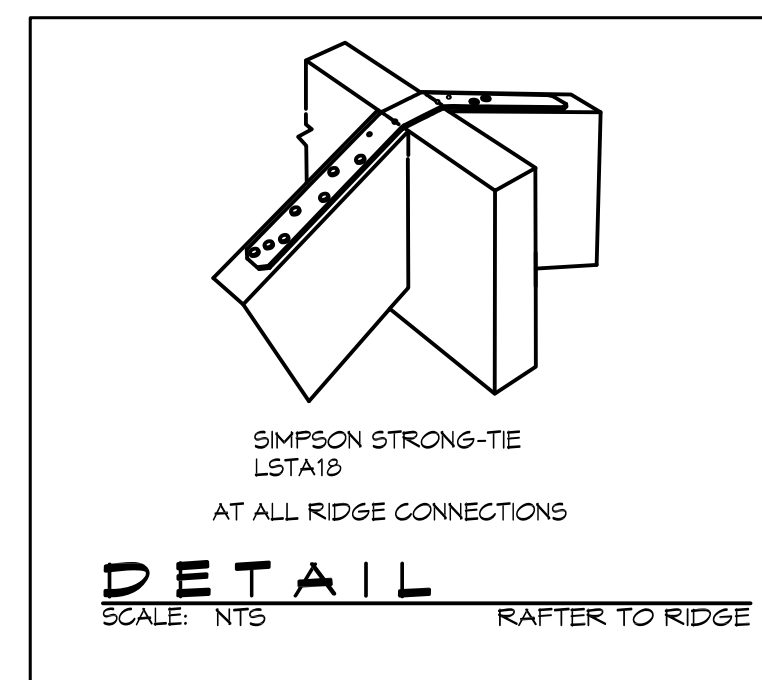
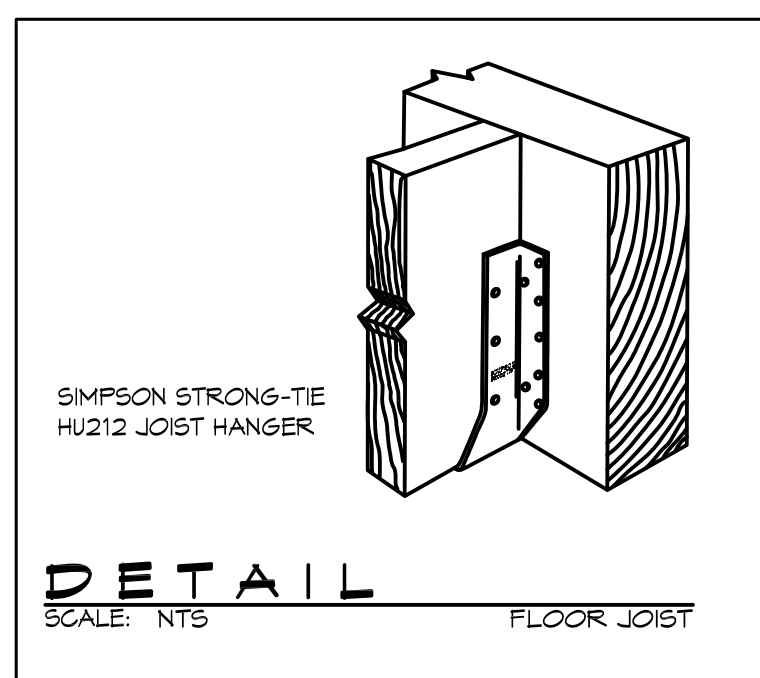
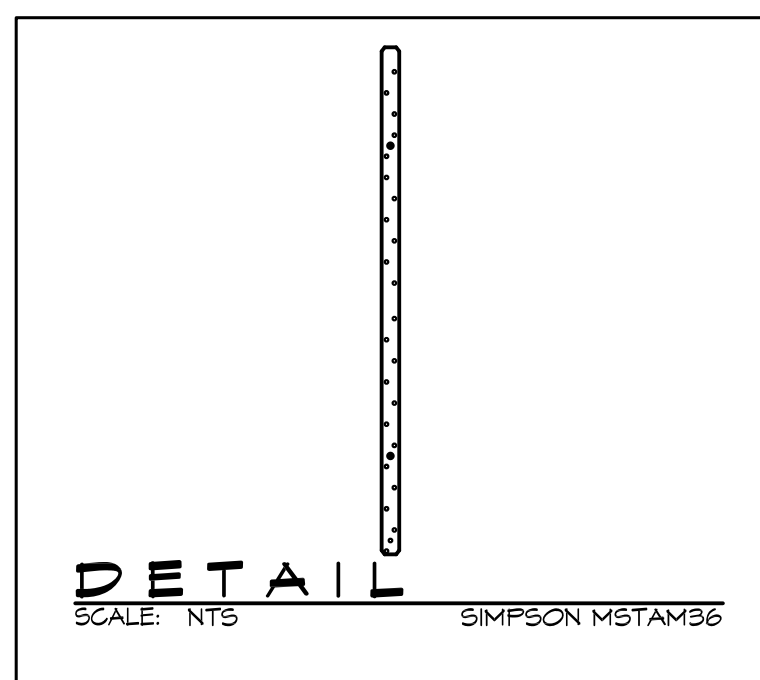


END WALL STRAPPING

SCALE: NTS



DETAIL SCALE: NTS TYP. EXTERIOR SHEATHING NAILING PATTERN



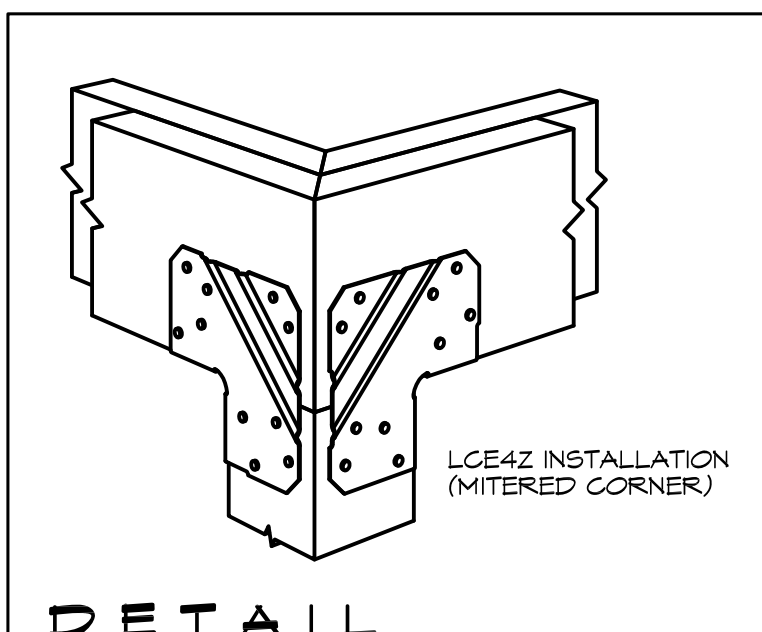
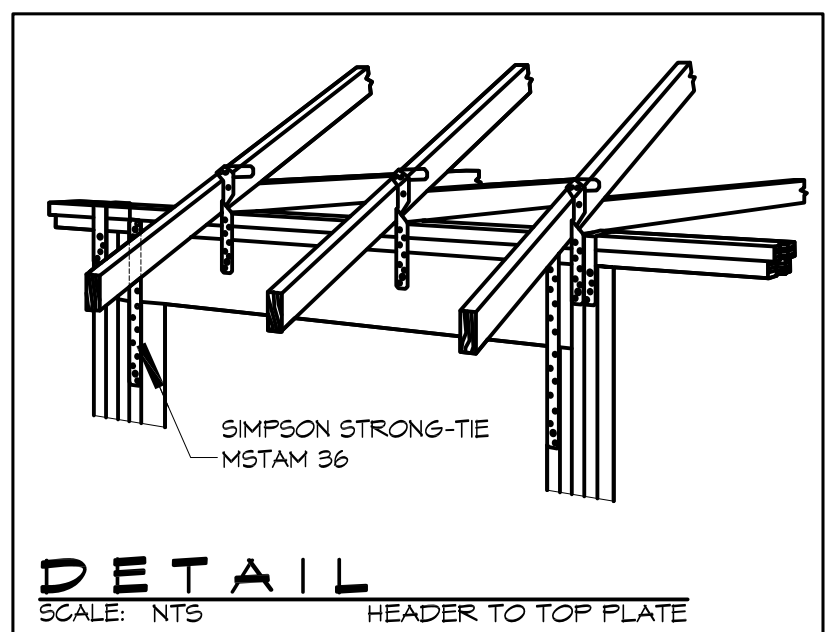
NAIL SPACING

X = 4" O.C.
Y = 4" O.C.
Z = 12" O.C.

X = PLATE EDGE NAIL SPACING
Y = LONG EDGE NAIL SPACING
Z = FIELD NAIL SPACING

DESIGN CRITERIA:

THE CONSTRUCTION FOR SAID RESIDENCE, WHERE BASIC WIND SPEED IS 130 MILES 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 (WFCM) 2001 EDITION AS WELL AS THE INTERNATIONAL RESIDENTIAL CODE (IRC) 2012 EDITION



RESIDENTIAL FOUNDATION
SUE GILLY

4118 ST. LOUIS ST.
SLIDELL LA. 70461

JOB No: 2254 DATE: 8-22-2015

DRAWING NUMBER

SB

STRAPPING AND CONNECTION DETAILS

DAMMON
ENGINEERING, INC.

Architects & Engineers

Chief Engineer: Brian Mistich, PE
554 Old Spanish Trail
Slidell, LA 70458
www.dammonengineering.com
info@dammonengineering.com
Phone: 985.649.5832
Fax: 985.641.5950