

**TABLE S107.7 - UPLIFT CONNECTIONS - 130 MPH WINDS EXP "C"**  
MFCM 2015 TABLE 9.2

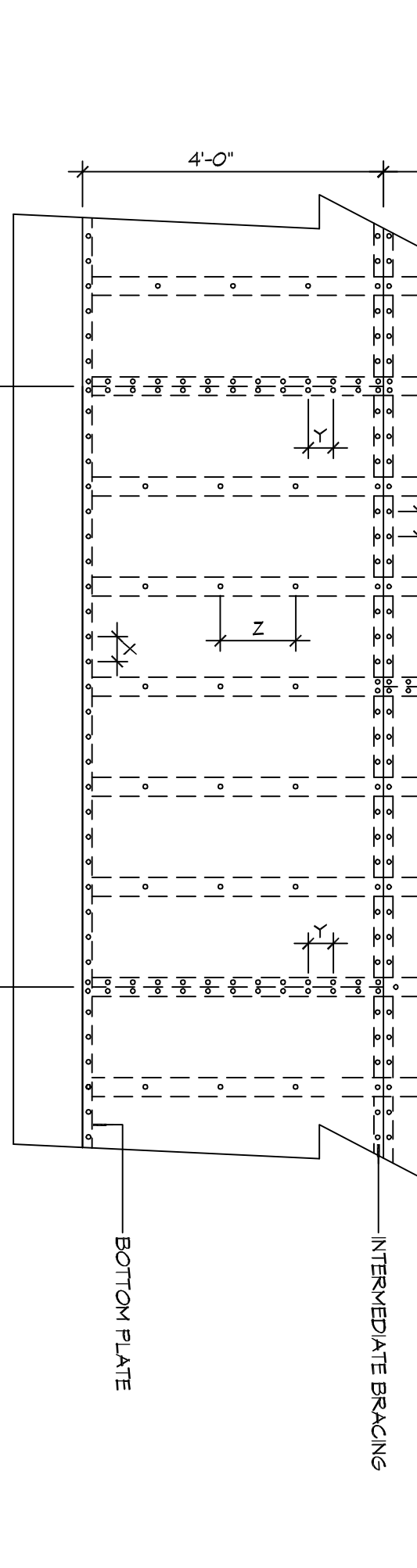
CONNECTION	FRAMING SPACING (INCHES)	ROOF SPAN (FEET)	UPLIFT	LATERAL	SHEAR	NUMBER OF BD COMMON NAILS OR 10d BOX NAILS IN EACH END OF 1-1/4"X20 GAGE STRAP
ROOF ASSEMBLY TO WALL ASSEMBLY TO FOUNDATION	16" OC	16	4.01	2.52	15.9R	4
	16" OC	16	2.24	2.19	4.96	4

**TABLE S107.8 - SILL OR BOTTOM PLATE TO FOUNDATION CONNECTIONS RESISTING UPLIFT LOADS - 130 MPH WIND EXP "C"**  
MFCM 2015 TABLE 9.2C

UPLIFT LOADS	FOUNDATION SUPPORTING	FOUNDATION SUPPORTING	FOUNDATION SUPPORTING	FOUNDATION SUPPORTING
1 - 3 STOREYS	23 INCHES ON CENTER	23 INCHES ON CENTER	23 INCHES ON CENTER	23 INCHES ON CENTER
NOTE: A MINIMUM OF ONE ANCHOR BOLT SHALL BE PROVIDED WITHIN 6 TO 12 INCHES OF EACH END OF EACH PLATE				

**TABLE S107.9 - SILL OR BOTTOM SHEAR LOADS - 130 MPH WIND EXP "C"**  
MFCM 2015 TABLE 9.2B

UPLIFT LOADS	FOUNDATION SUPPORTING	FOUNDATION SUPPORTING	FOUNDATION SUPPORTING	FOUNDATION SUPPORTING
12" O.C.	16" O.C.	24" O.C.		
NUMBER OF FULL HEIGHT STUD REQUIRED AT EACH END OF THE HEADER				
2	1	1	1	1
4	2	2	2	2
6	3	3	3	3
8	4	4	4	4



**NAIL SPACING**  
 X = 4" OC  
 Y = 4" OC  
 Z = 12" OC  
 X = PLATE EDGE NAIL SPACING  
 Y = LONG EDGE NAIL SPACING  
 Z = FIELD NAIL SPACING

**INTERIOR SHEATHING**  
 1/2" PLYWOOD EACH FACE STAGGERED 48"  
 2" X 4" NAIL @ 12" O.C. FASTENING @ PANEL EDGES & NAILS @ 12" O.C. FASTENING @ INTERMEDIATE MEMBERS

**EXTERIOR SHEATHING**  
 5/8" DENSGLASS SHEATHING EXTERIOR FACE STAGGERED 48" O.C. FASTENING @ PANEL EDGES & NAILS @ 12" O.C. FASTENING @ INTERMEDIATE MEMBERS

**NOTE:** SPACE NAILS AT EACH NAIL HOLE

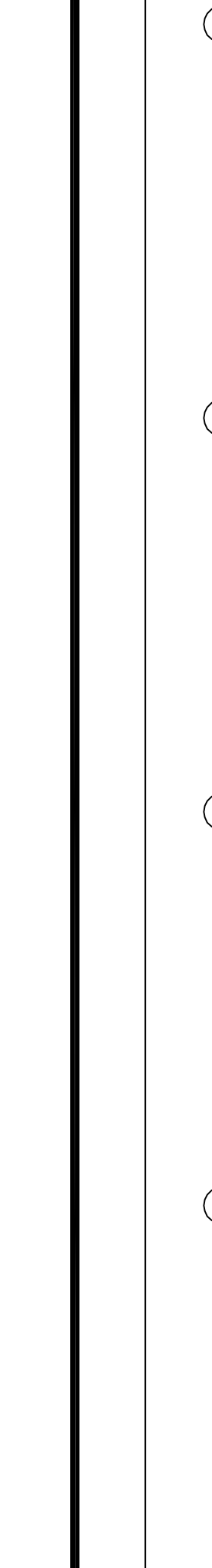
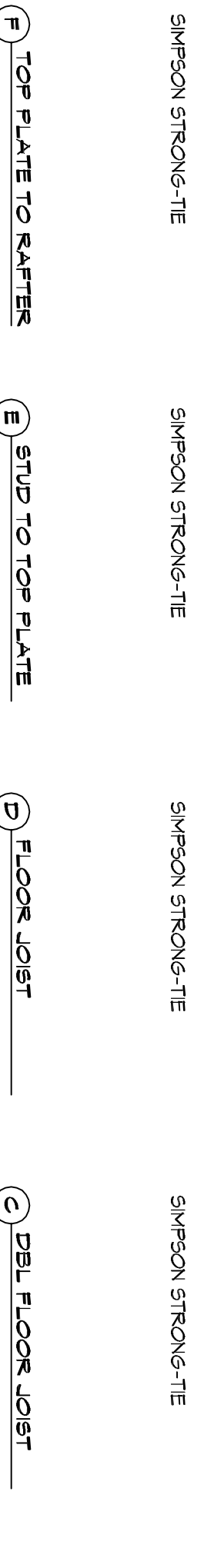
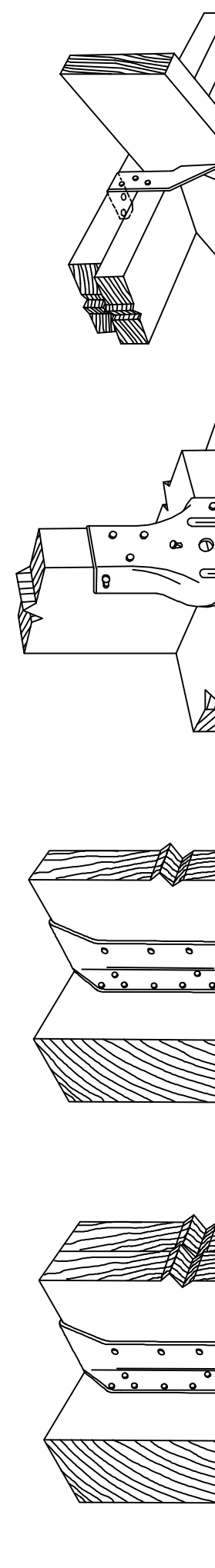
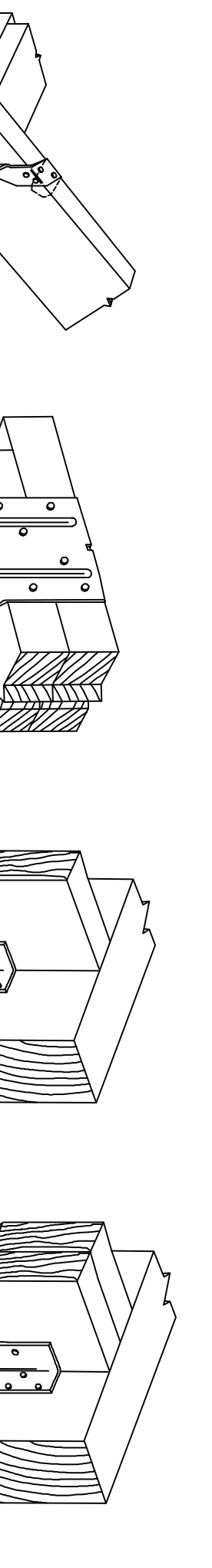
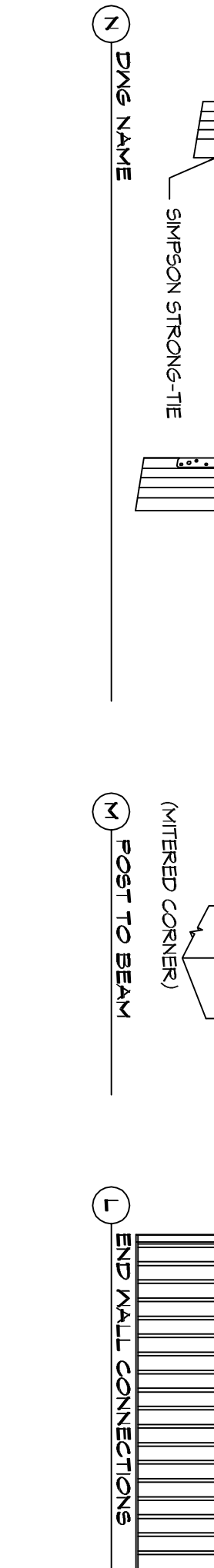
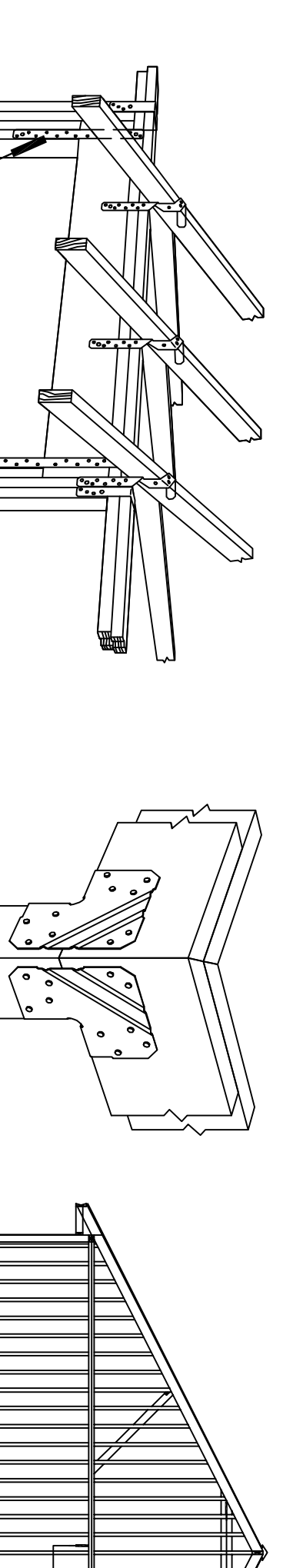
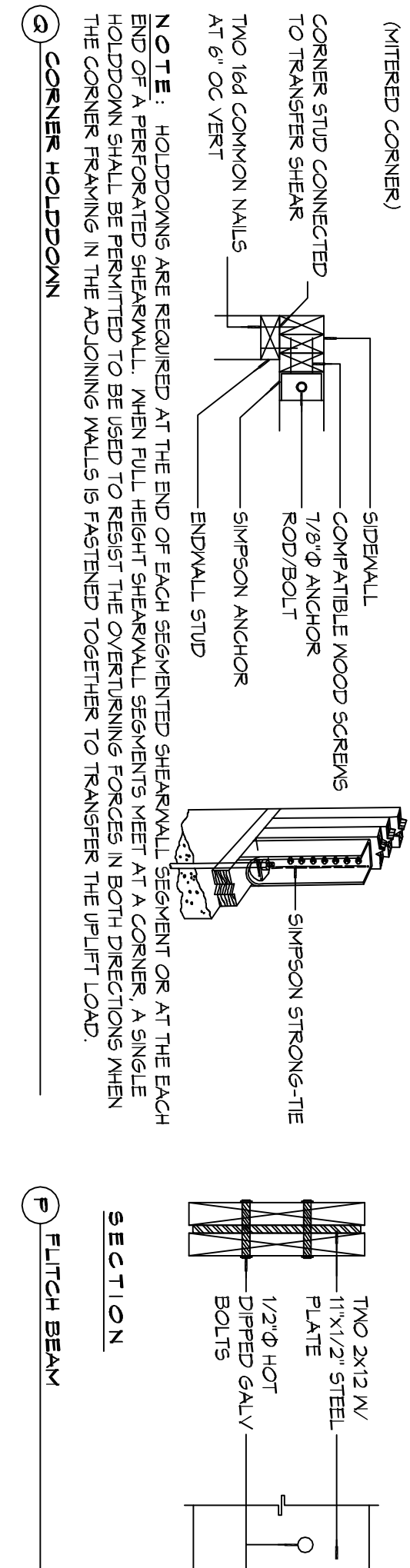
**SHEAR WALL EXTERIOR SHEATHING NAILING PATTERN**

**TABLE S107.5 - JACK STUD REQ - INT LOADBEARING WALLS**  
MFCM 2015 TABLE 9.2F

HEADER SPAN (FT)	ROOF SPAN (FEET)					
	12 FEET	24 FEET	36 FEET	48 FEET	60 FEET	72 FEET
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	1	1	1	1	1	1
16	2	2	2	2	2	2

**TABLE S107.6 - JACK STUD REQ - EXTERIOR LOADBEARING WALLS**  
MFCM 2015 TABLE 9.2F

HEADER WIDTH - 3" (2-2N), 4.5" (3-2N), 5" (4-2N) EACH W/ 1/2" PLYWOOD SPACERS BETWEEN	ROOF LIVE LOAD 20 PSF						ROOF LIVE LOAD 30 PSF					
	3'	4.5'	5'	6.5'	7'	8.5'	3'	4.5'	5'	6.5'	7'	8.5'
2	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
6	2	2	2	2	2	2	2	2	2	2	2	2
8	2	2	2	2	2	2	2	2	2	2	2	2
10	3	3	3	3	3	3	3	3	3	3	3	3
12	3	3	3	3	3	3	3	3	3	3	3	3
14	4	4	4	4	4	4	4	4	4	4	4	4
16	4	4	4	4	4	4	4	4	4	4	4	4



**TABLE S107.3 - NAILING SCHEDULE**  
MFCM 2015 TABLE 9.1

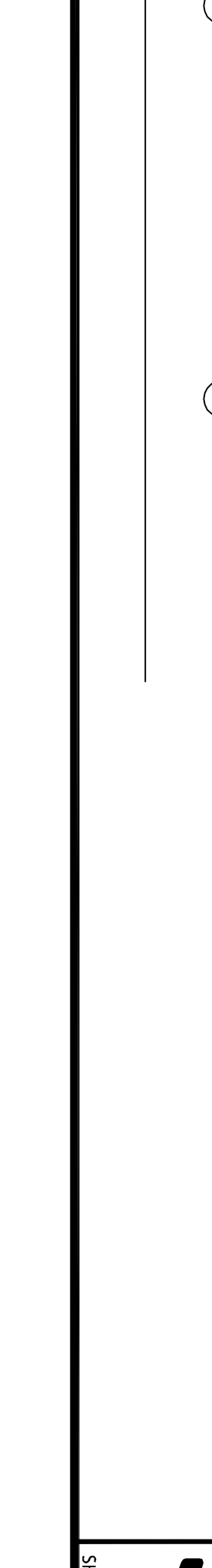
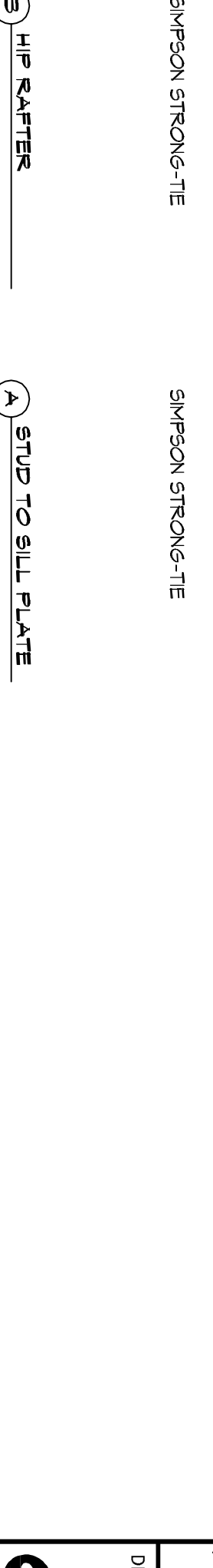
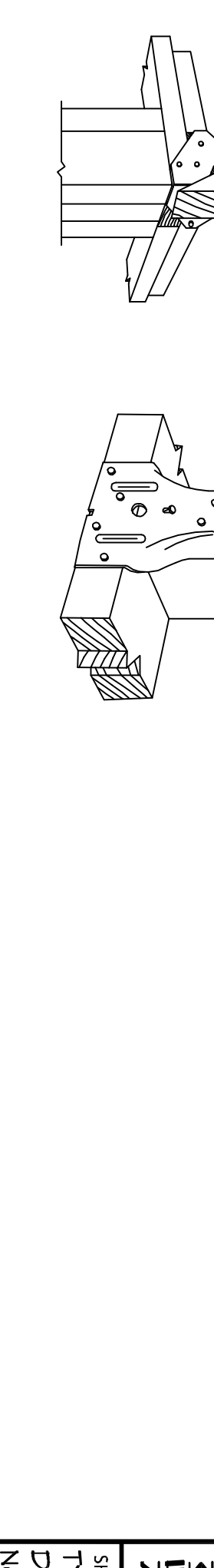
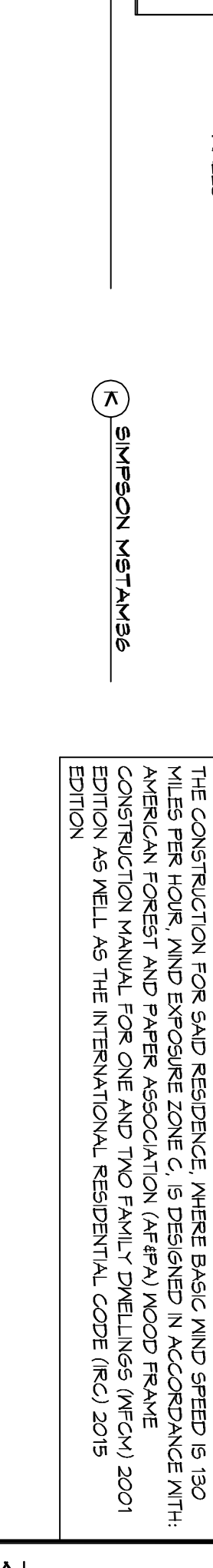
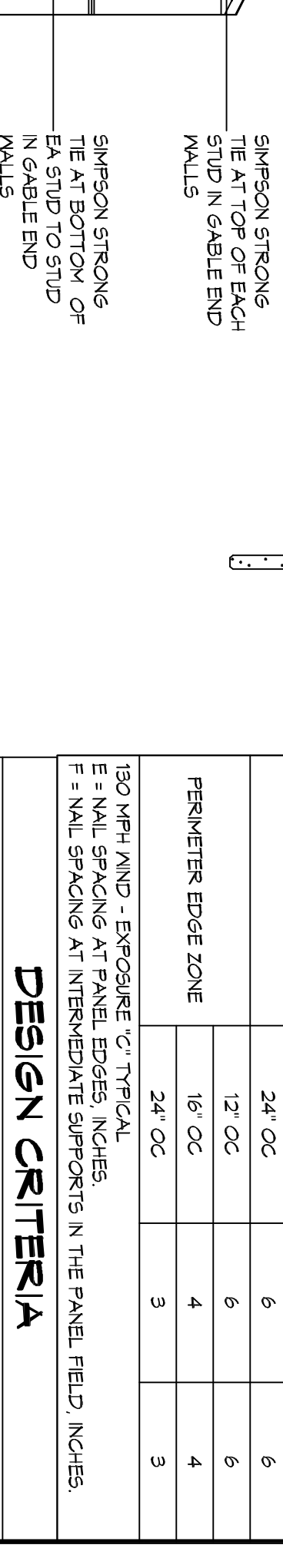
DESCRIPTION	NUMBER OF COMMON NAILS	NUMBER OF BOX NAILS	SPACING
HEADER TO HEADER (FACE NAIL)	16d	16d	16" OC EDGES

**TABLE S107.4 - BUILDING ENVELOPE REQUIREMENTS**

OPAKE ELEMENTS	ASSEMBLY	MIN. R-VALUE	INSULATION
INSULATION ENVELOPE ABOVE DECK	U-0.046	R-20.0 c.i.	
METAL BUILDING	U-0.065	R-14	
ATTIC AND OTHER	U-0.071	R-38	
MASS	U-0.151	R-5.1 c.i.	
METAL BUILDING	U-0.119	R-13.0	
STEEL-FRAMED	U-0.124	R-13.0	
WOOD-FRAMED AND OTHER	U-0.094	R-13.0	
MASS	U-0.101	R-6.9 c.i.	
FLOORS	U-0.092	R-14.0	
WOOD-FRAMED AND OTHER	U-0.051	R-14.0	
SLAB-ON-GRADE	F-0.139	NR	
OPAKE DOORS	U-0.100	NR	
NON-SPANNING	U-1.450	NR	

**TABLE S107.1 - ROOF SHEATHING OR CLADDING REQUIREMENT - WIND LOAD EXP "C"**

SHEATHING LOCATION	RAFTER / TRUSS SPACING	MAX NAIL SPACING FOR 8d COMMON NAILS OR 10d BOX NAILS (INCHES OC)
INTERIOR ZONE	12" OC	6
	16" OC	6
	24" OC	6
PERIMETER EDGE ZONE	12" OC	4
	16" OC	4
	24" OC	3



**ROOF UNDERLAYMENT NOTES**

1. FOR ROOF SLOPES FROM TWO UNITS VERTICAL IN 12 UNITS HORIZONTAL (17-PERCENT SLOPE) UP TO FOUR UNITS VERTICAL IN 12 UNITS HORIZONTAL (33-PERCENT SLOPE), UNDERLAYMENT SHALL BE TWO LAYERS APPLIED IN THE FOLLOWING MANNER:  
 A. APPLY A 14 INCH STRIP OF UNDERLAYMENT FELT PARALLEL WITH AND STARKING AT THE EAVE, FASTENED SUFFICIENTLY TO HOLD IN PLACE UNDERLAYMENT, OVERLAPPING 30-CENTIMETER SHEETS 14 INCHES, AND FASTENED SUFFICIENTLY TO HOLD IN PLACE.  
 B. FOR ROOF SLOPES OF FOUR UNITS VERTICAL IN 12 UNITS HORIZONTAL (33-PERCENT SLOPE) AND STEEPER, UNDERLAYMENT SHALL BE ONE LAYER APPLIED IN THE FOLLOWING MANNER:  
 A. UNDERLAYMENT SHALL BE APPLIED SINGLE PLY, PARALLEL TO AND STARKING FROM THE EAVE AND LAPPED 2 INCHES, FASTENED SUFFICIENTLY TO HOLD IN PLACE. END LAPS SHALL BE OFFSET BY 6 FEET.

**ROOF APPLICATION & FASTENING NOTES**

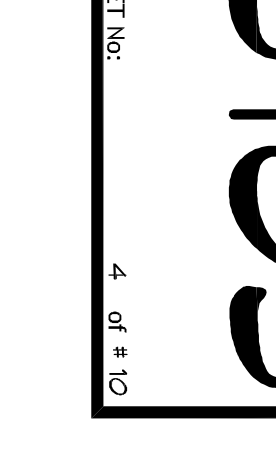
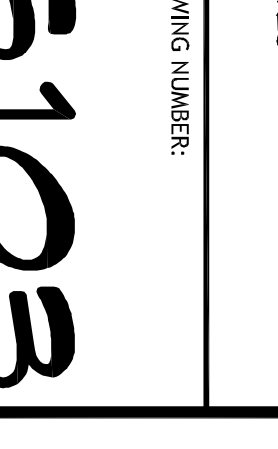
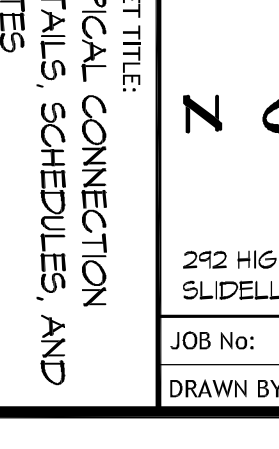
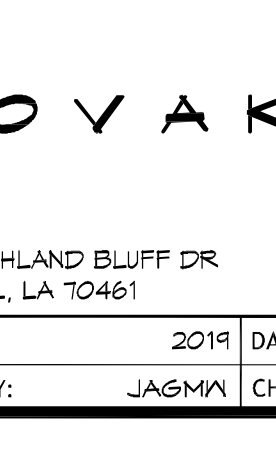
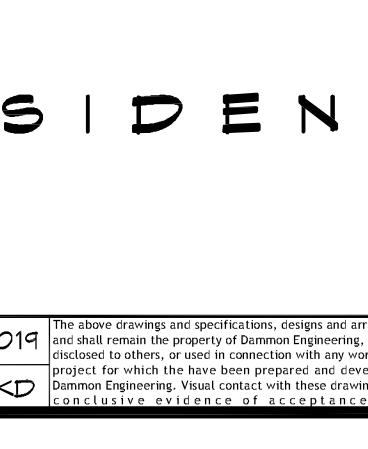
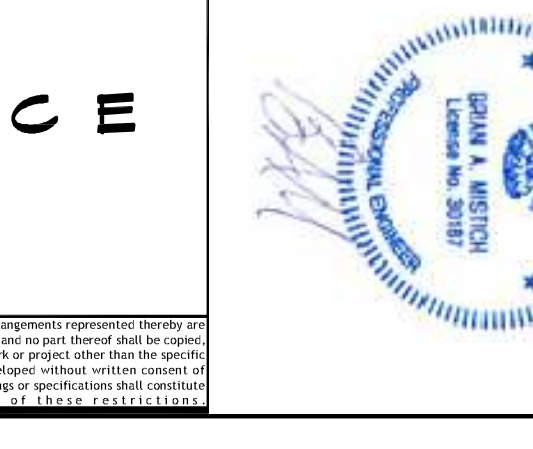
1. METAL ROOF PER MANUFACTURER RECOMMENDATIONS FOR 130MPH WIND SPEED.

**GENERAL UPLIFT CONNECTION NOTES**

**ROOF ASSEMBLY TO WALL ASSEMBLY:**  
 METAL RAFTERS OR TRUSSES ARE NOT LOCATED UNDER STUDS, RAFTERS SHALL BE ATTACHED TO THE WALL PLATE AND THE WALL PLATE SHALL BE ATTACHED TO THE WALL STUD WITH UPLIFT CONNECTIONS.

**WALL ASSEMBLY TO WALL ASSEMBLY:**  
 STUDS TO STUD UPLIFT CONNECTIONS FROM UPPER STORY WALL STUD TO LOWER STORY WALL STUD SHALL BE ATTACHED TO THE WALL STUD WITH UPLIFT CONNECTIONS.

**WALL ASSEMBLY TO FOUNDATION:**  
 FIRST FLOOR WALL STUDS SHALL BE CONNECTED TO THE FOUNDATION SILL. GRADE 36 STEEL STRAP SHALL BE WELDED TO THE WALL STUDS AND HAVE A MINIMUM EMBEDMENT OF 1 INCHES IN CONCRETE FOUNDATIONS, OR BE LAPPED UNDER THE BOTTOM PLATE. 3 INCH SQUARE WAGERS SHALL BE USED ON THE ANCHOR BOLTS AND ANCHOR BOLT SPACINGS SHALL NOT EXCEED THE REQUIREMENTS. STEEL STRAPS EMBEDDED IN OR IN CONTACT WITH CONCRETE SHALL BE HOT-DIPPED GALV. AFTER FABRICATION, OR GALV. FROM G155 OR Z150 GALV. STL.



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