

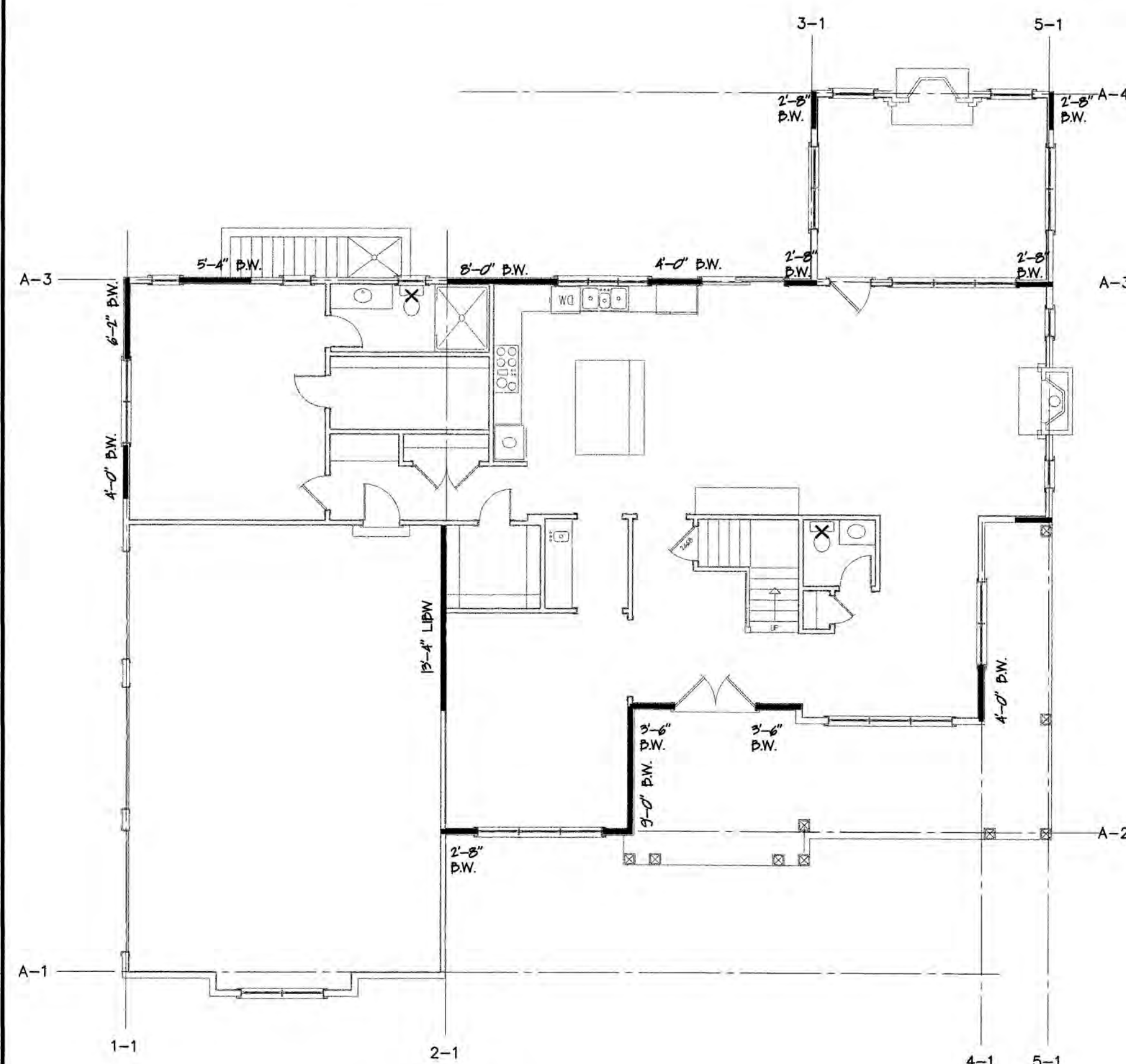
CONSULTANTS

[illegible]

DRAWINGS PREPARED FOR
ASIM ALIMI

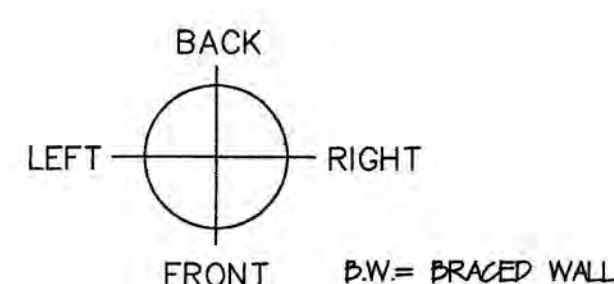
WIND BRACE PLAN
FOR
PROPOSED COLONIAL FARM HOUSE
AT
LOT 7 MADELINE DRIVE
NEW FAIRFIELD CT

SCALE	PROJECT NO.
DRAWN BY	WB-100
CHECKED BY	
DATE 7/18/20	
	7 OF 7



FIRST FLOOR PLAN

SCALE $1/8" = 1'-0"$



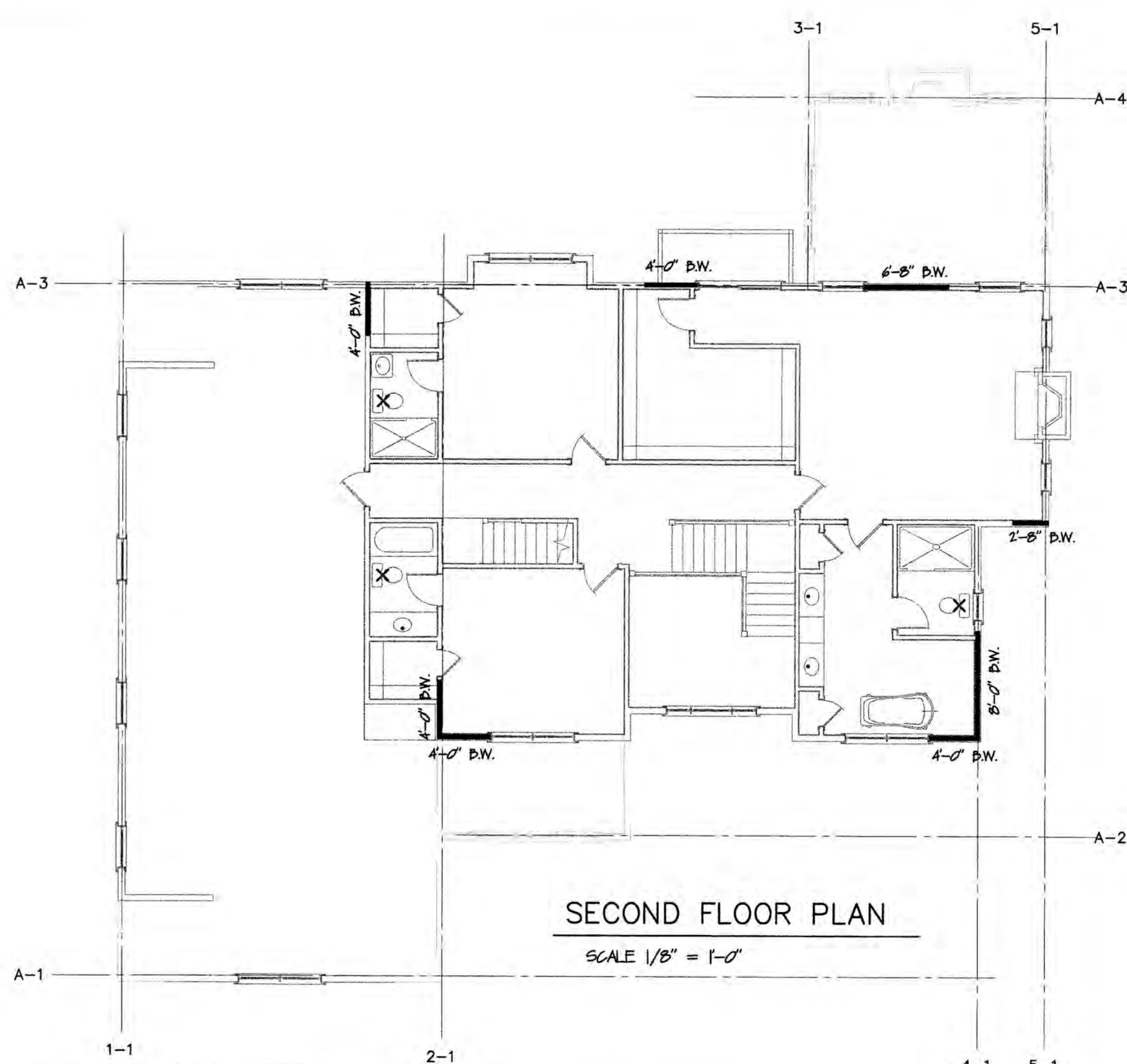
DESIGN PARAMETERS	
STRUCTURE TYPE	SINGLE FAMILY DETACHED
# OF STORIES	2
SEISMIC DESIGN	B
WIND SPEED DESIGN	115 MPH
WIND EXPOSER	B
GWB ON INTERIOR WALL	YES

BRACED WALL LINES - FIRST FLOOR									
Wall Bracing Side to Side Direction				Wall Height = 9'-0"					
CS-Wall Bracing Method				Exposer Factor = 1					
Wall Line	Spacing	Wall Hgt	Story	Eave to Ridge Factor	Eave to ridge hgt (ft.)	Wind Fact	Tabulated Braced Wall (ft.)	Tabulated Required Wall Bracing	Wall bracing Provided Front/Back
1-1 TO 2-1	24'-0"	10'-0"	1 OF 1	1.18	13'-0"	1	3.9'	4.6'	5'-4" B.W. / 5'-4" B.W.
2-1 TO 4-1	40'-0"	9'-0"	1 OF 2	1.15	15'-0"	.95	11.5'	12.46'	12'-8" B.W. / 14'-8" B.W.
4-1 TO 5-1	5'-0"	9'-0"	1 OF 2	1.05	10'-0"	.95	1.75'	1.66'	2'-8" B.W. / 2'-8" B.W.

BRACED WALL LINES - SECOND FLOOR									
Wall Bracing From to Back Direction Wall Height = 9'-0"									
CS-Wall Bracing Method Exposer Factor 1									
Wall Line	Spacing	Wall Hgt.	Story	Eave to Ridge Factor	Eave to ridge hgt	Wind Wall hgt factor	Required Braced Wall (ft.) Tabulated	Required Wall Bracing Adjusted	Wall bracing Provided Front/Back
1-1 To 2-1	N.A.								
2-1 To 3-1	4'-0"	9'-0"	2 of 2	1.3	15'-0"	.95	5'-5"	7.42'	8'-0" B.W./ 8'-0" B.W.
4-1 To 5-1	5'-0"	9'-0"	2 of 2	1.0	10'-0"	.95	1.1'	.95'	2'-8" W./ 2'-6" B.W.

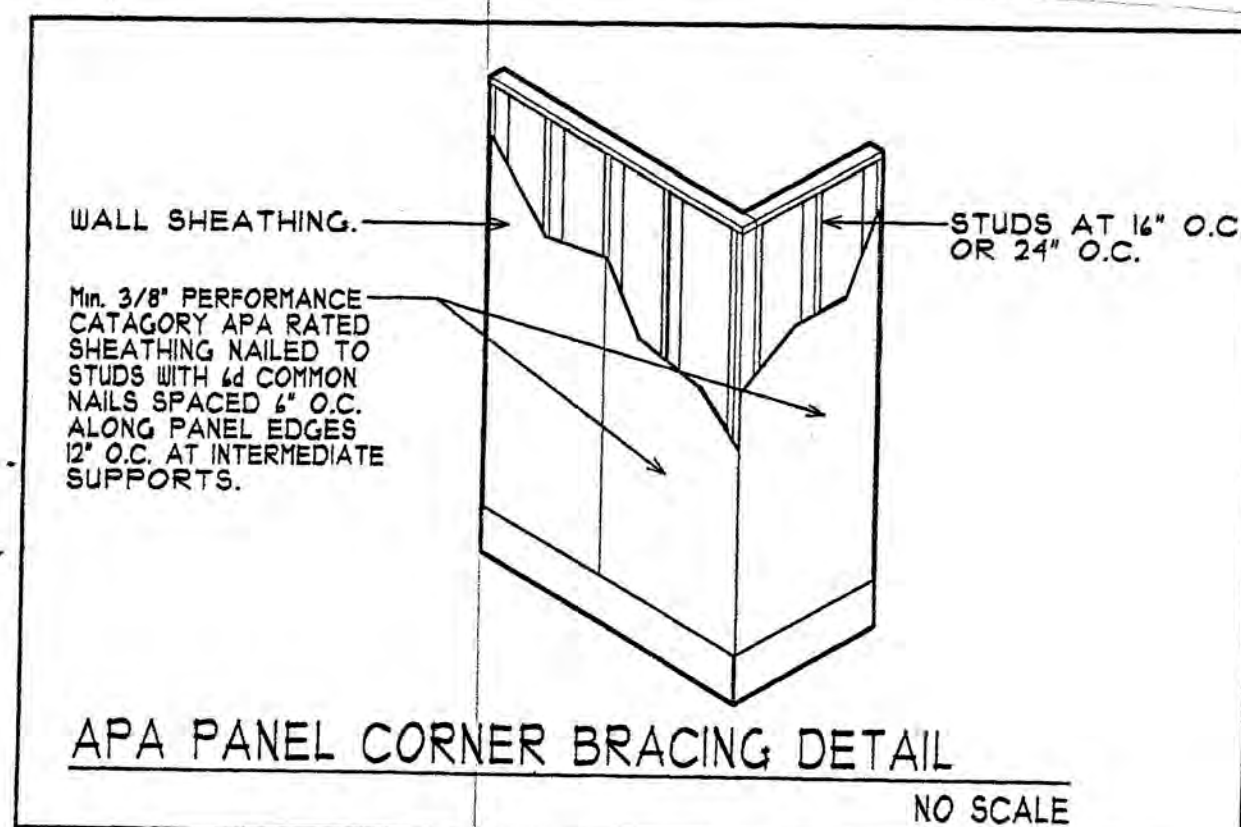
BRACED WALL LINES - FIRST FLOOR										
Wall Height = 9'-0"										
Wall Bracing Side to Side Direction										
CS-Wall Bracing Method Exposer Face 1										
Wall Line	Spacing	Wall Hgt	Story	Eave to Ridge Factor	Eave to ridge Hgt	Wind Wall Hgt	Tabulated braced Wall (ft.) Tabulated	Required Wall Bracing Adjusted	Wall bracing Provided ft/2'-0" LIB	
A-1 TO A-3	52'-0"	9'-0"	1 of 1	1.18	13'-0"	1.	7.8	9.2'	10'-2" B.W./ 12'-0" LIB	
A-2 TO A-3	41'-0"	9'-0"	1 of 2	1.15	15'-0"	.95	11.75	12.84'	13'-4" L.I.B.W./ 13'-0" B.W.	
A-3 TO A-4	14'-0"	9'-0"	1 of 1	.88	8'-0"	.95	2.6'	2.17'	2'-8" B.W./ 2'-8" B.W.	

BRACED WALL LINES - SECOND FLOOR									
Wall Bracing Side to Side Direction Wall Height = 9'-0"									
CS-Wall Bracing Method Exposer Factor 1									
Wall Line	Spacing	Wall Hgt	Story	Eave to Ridge Factor	Eave to ridge hgt	Wind Wall hgt factor	Tabulated braced Wall (ft.) Tabulated	Required Wall Bracing Adjusted	Wall bracing Provided If/ft
A-1 TO A-3	N.A.								
A-2 TO A-3	34'-0"	9'-0"	2 of 2	1.3	15'-0"	.95	5.1'	6.3'	8'-0" B.W./8'-0"B.W.
A-3 TO A-4	N.A.								



SECOND FLOOR PLAN

SCALE 1/8" = 1'-0"



WB/WBC/TWB/RCWB *Wall Bracing*

Simpson Strong-Tie will bring pricing products after effective options to resist racking during construction. Additionally the RWB and WBRWB can be used to fulfill the same code requirements as a 1x4 let-in brace, but are also cost effective and faster to install. The RWB (rolled edge) is a 1x4 with a 1/2" thick shearwall or shear component. The WBR (colored WBR) produces a 2x4 with a 1/2" thick shear wall and 40 pounds of racking resistance. The RWB (rolled edge) has 20 pounds of racking resistance. Maximum spans and transportation ease. WBR100 = 16' per roll (roll for RWB1200 = 12' pieces per roll, WBR400 = 10' pieces per roll).

The RWB features a rolled edge (the RWB has two rolled edges) for extra strength and safety.

MATERIAL: WBR and WBRG = 16 gauge. TWB = 26 gauge. RWB = 20 gauge

INSTALLATION: • Use all specified fasteners. See General Notes.

WBR and WBRG: • Install in "X" pairs or in opposing "V" fashion.

• Use with 16" of 2x4 or 2x4 (min.) studs.

RWB and RWB: • Use with 16" of 2x4 (min.) studs.

• Use minimum of 2x4 studs with TWB.

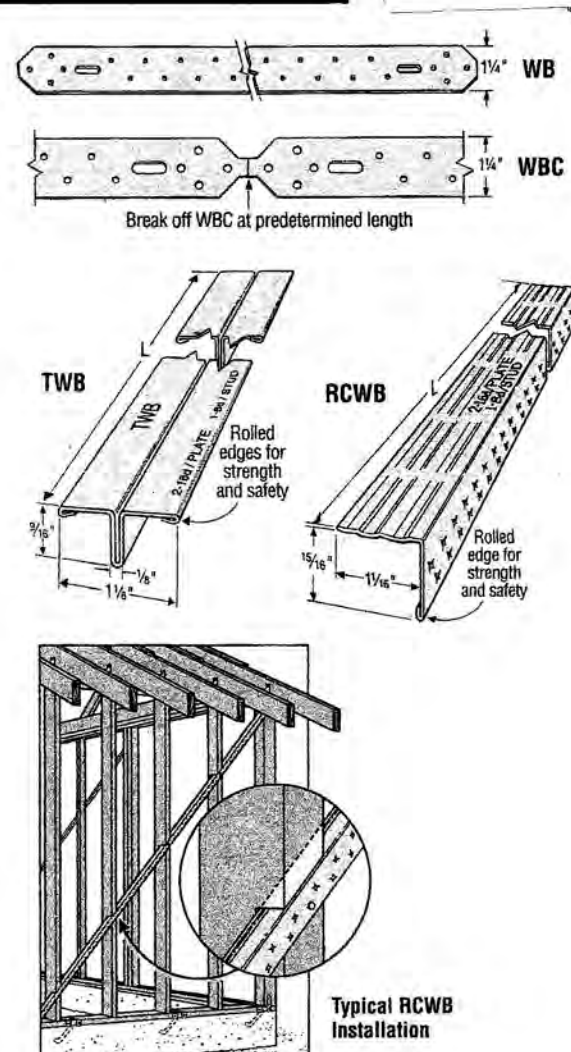
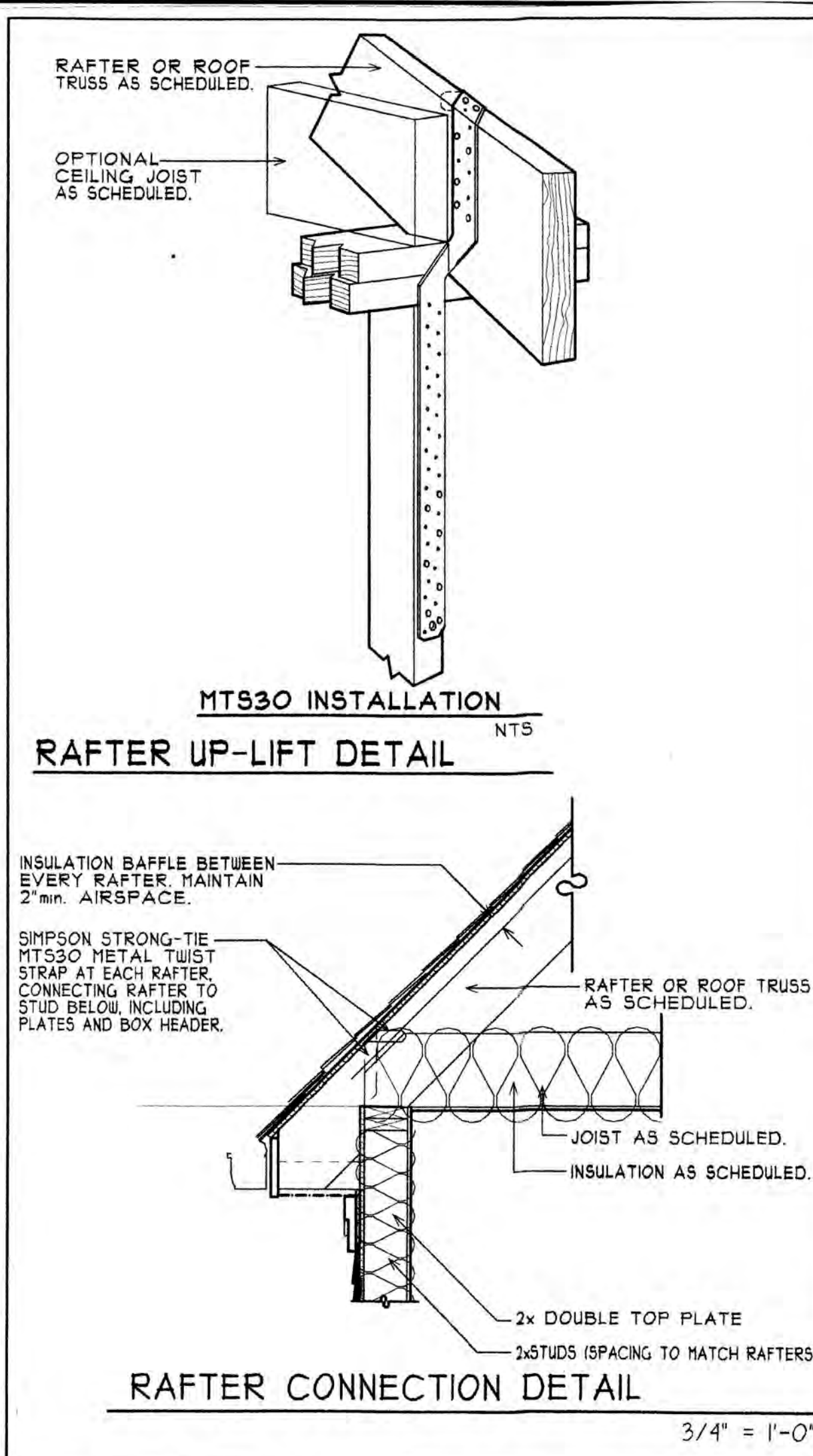
• Use minimum of 2x6 studs with RWB (2x4 min. for interior, non-bearing wall).

• Establish a line using the stringing as a straight edge. Single cut a saw kerf 1/2" deep in RWB or 1 1/2" deep in WBR. Cut the RWB or WBR pre-formed on the floor, place the plate into the saw kerf, and put one nail into the top plate.

• Fill the wall and joists between the rolling off top plate, bottom plate and studs with the rolling sheathing.

Model No.	L	Angle and Weight	Fasteners		Code Ref.
			Plates	Studs	
WB106	9'-5 1/2"	8' @ 60	2-166	1-96	H16, L15, F15
WB106C	9'-6"	8' @ 60	2-166	1-96	
TWB10	9'-9"	8' @ 55	2-166	1-96	H16, L15, F15
RCWB12	11'-4"	8' @ 45	2-166	1-84	H6, F15
WB126	11'-4 1/2"	8' @ 45	2-166	1-96	H16, L15, F15
WB126C	11'-4 1/2"	8' @ 45	2-166	1-96	
TWB12	11'-4"	8' @ 45	2-166	1-96	H16, L9, F15
RCWB12	11'-4"	8' @ 50	2-166	1-84	
WB126	11'-4 1/2"	9' @ 53	2-166	1-96	H16, L9, F15
WB126C	11'-4 1/2"	9' @ 53	2-166	1-96	
TWB12	11'-4"	9' @ 53	2-166	1-84	
WB143C	14'-3"	10' @ 45	2-166	1-84	H16, L15, F15
RCWB14	14'-2"	10' @ 45	2-166	1-84	

1. **NAILS:** 16d = 0.162" dia. x 3½" long.
8d = 0.131" dia. x 2½" long.
See page 22-23 for other nail sizes
and information.

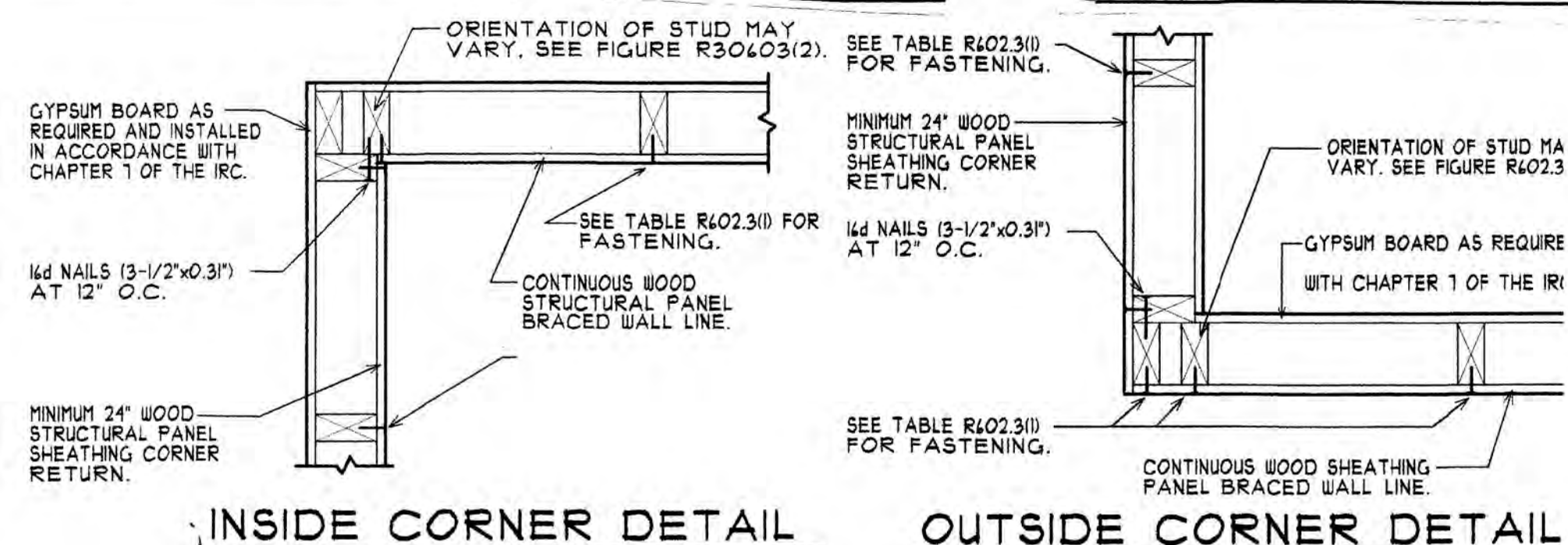
WB or WBC Walk
Bracing "X" and
"V" Applications

MTS30 INSTALLATION

NTS

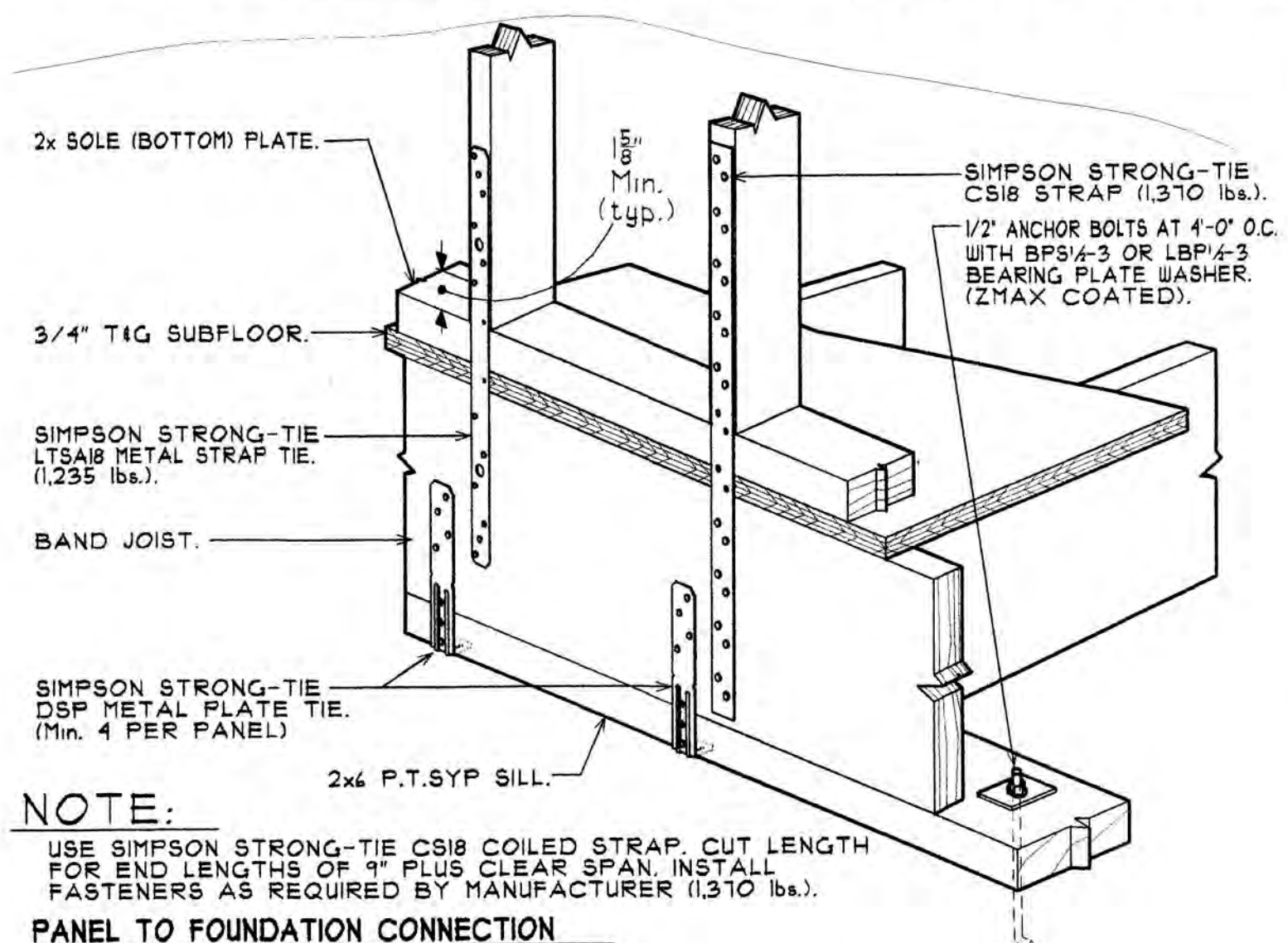
RAFTER UP-LIFT DETAIL

RAFTER CONNECTION DETAIL

$$\frac{3}{4}'' = 1'-0''$$


INSIDE CORNER DETAIL

OUTSIDE CORNER DETAIL



NOTE

USE SIMPSON STRONG-TIE CS18 COILED STRAP. CUT LENGTH FOR END LENGTHS OF 9" PLUS CLEAR SPAN. INSTALL FASTENERS AS REQUIRED BY MANUFACTURER (1370 lbs.).

PANEL TO FOUNDATION CONNECTION
(MINIMUM 2-STRAPS PER PANEL)

BRACED WALL - LOAD PATH CONNECTOR

NO SCALE