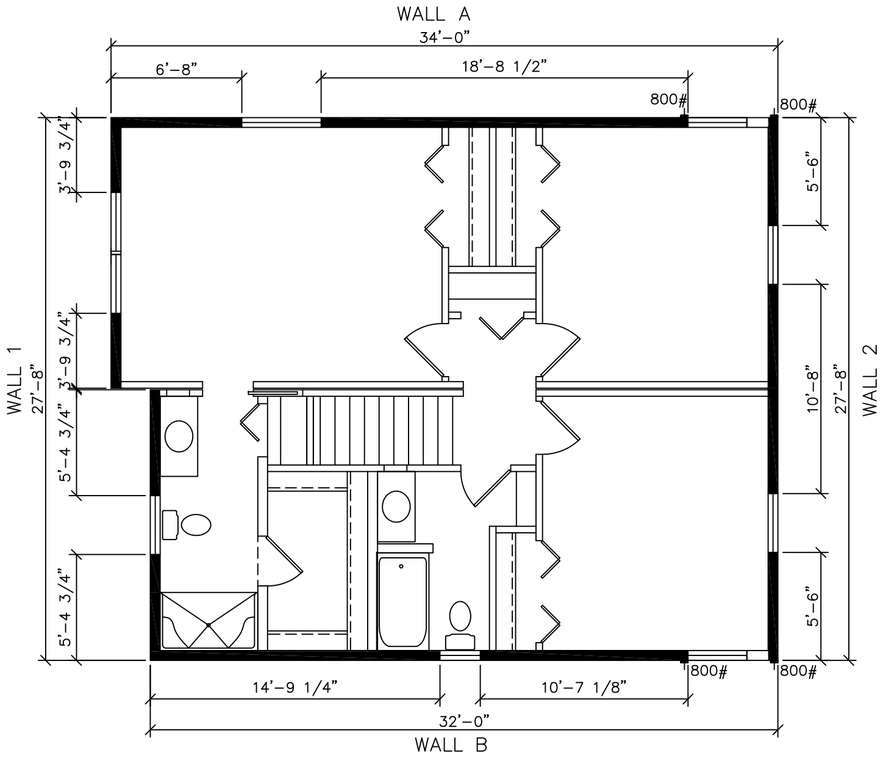
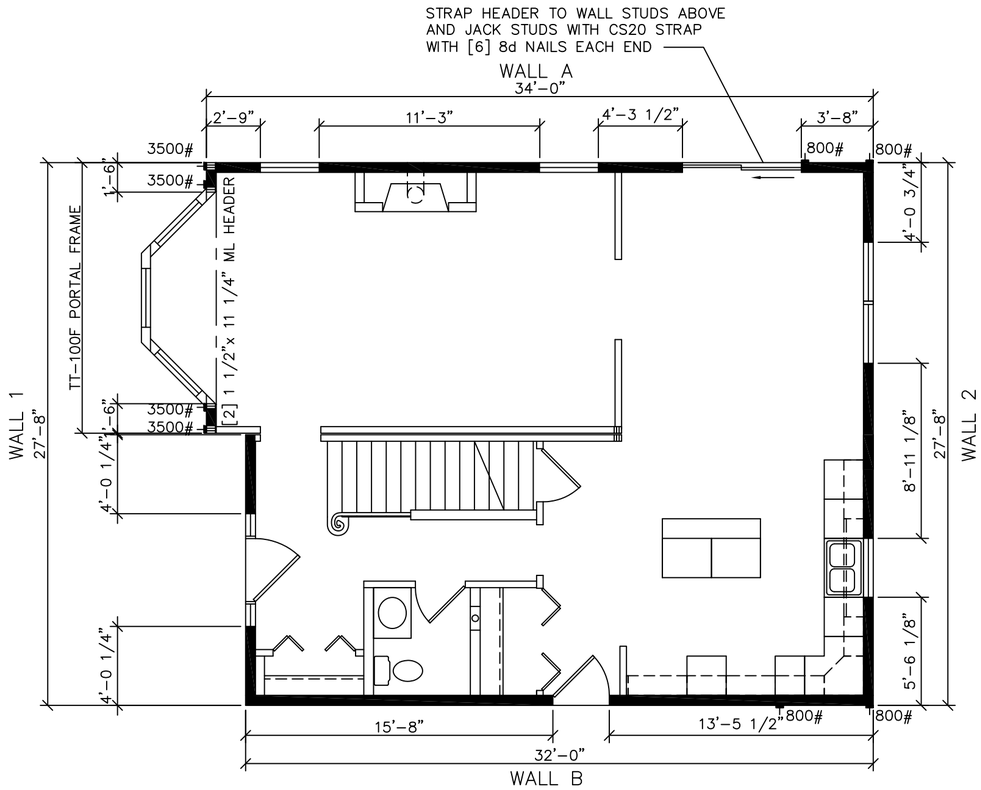


SECOND FLOOR BRACED WALLS



FIRST FLOOR BRACED WALLS

Design Parameters

Structure Type	1-2 Family Detached
# Stories	2
Seismic Design Category	B
Wind Speed (3 Second Gust)	<100
Wind Exposure	B
Mean Roof Height	23 ft
Eave to Ridge Height	10 ft
Roof/Ceiling Dead Load	12 ft
GWB on Interior of Walls.	YES

Wall Bracing Requirements - 2009 International Residential Code

Braced Wall Lines - Ranch, Cape, or Second Story

Wall Bracing North/South Direction Wall Height: 8 ft

Adjustment Factors: CS METHOD

Wall height Factor	Walls Factor	Exposure Factor	Eave Ridge Factor
0.9	1	1	1

Wall Line	Spacing	Required Braced Wall (ft) Tabulated	Required Braced Walls (ft) Adjusted	Braced Walls Provided (ft)	
Wall #1	34	6.6 ft	5.9 ft	18.1 ft	Passes
Wall #2	34	6.6 ft	5.9 ft	21.6 ft	Passes

Wall Bracing East/West Direction

Adjustment Factors:

Wall height Factor	Walls Factor	Exposure Factor	Eave Ridge Factor
0.9	1	1	1

Wall Line	Spacing	Required Braced Wall (ft) Tabulated	Required Braced Walls (ft) Adjusted	Braced Walls Provided (ft)	
Wall A	27.6	5.5 ft	5.0 ft	25.2 ft	Passes
Wall B	27.6	5.5 ft	5.0 ft	25.3 ft	Passes

Braced Wall Lines - First Floor of a Two Story

Wall Bracing North/South Direction Wall Height: 9 ft

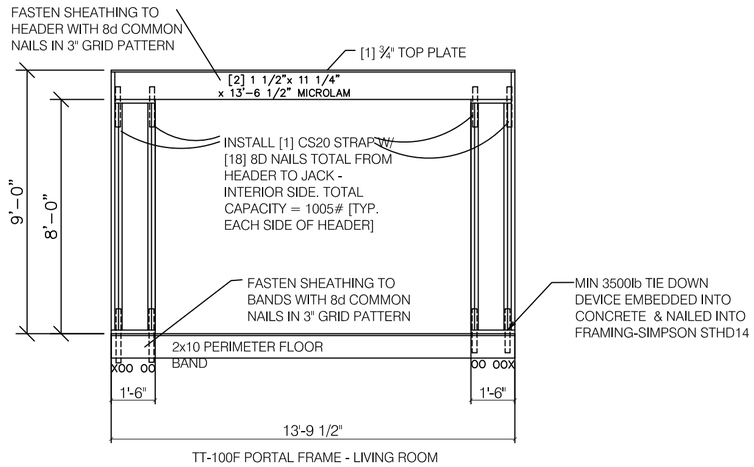
Adjustment Factors: CS METHOD - WALL#1 HAS TT-100F PORTALS

Wall height Factor	Walls Factor	Exposure Factor	Eave Ridge Factor
0.95	1	1	1

Wall Line	Spacing	Required Bracing Wall (ft) Tabulated	Required Wall Bracing (ft) Adjusted	Braced Walls Provided (ft)	
Wall #1	34	12.5 ft	11.9 ft	12..2 ft	Passes
Wall #2	34	12.5 ft	11.9 ft	18.5 ft	Passes

Wall Bracing East/West Direction

Wall Line	Spacing	Required Bracing Wall (ft) Tabulated	Required Wall Bracing (ft) Adjusted	Braced Walls Provided (ft)	
Wall A	27.8	10.4 ft	9.9 ft	21.8 ft	Passes
Wall B	27.8	10.4 ft	9.9 ft	29.1 ft	Passes



TT-100F PORTAL FRAME - LIVING ROOM

SEE STANDARD NOTES & DETAILS DWG #8

THIRD PARTY INSPECTION AGENCY

PE / RA

SERIAL No. 17066

PRODUCTION No.

REVISION	DATE

CHECK	DATE

BUILDER: SILVER BEACH LLC
DBA SILVER BEACH HOMES
83 WELLWOOD RD
PORTLAND ME 04103

HOMEOWNER: BOUCHARD/MEOLI

SITE: 291 SUMMIT STREET
PORTLAND, ME 04103

RICHMOND CTM-R
BRACED WALLS

Westchester Modular Homes Inc
30 Reagans Mill Road, Wingdale, New York, 12594
Tel (845)832-9400 Fax (845)832-6698

USE GROUP: SINGLE FAMILY

CONST. TYPE: VB

DESIGNER: MJG

DATE: 5/5/17

SCALE: 1/4" = 1'-0"

PAGE: 4D