RULES:

1. One all-thread rod at each corner.

2. One all-thread rod at each end of shearwalls.

3. One all-thread rod at each end of opening headers greater than 3'-0"

4. Check sub-sheathing to top plate connection for horizontal transfer capability. 5. If necessary, add all-thread rods to girders individually to exclude the from average uplift plf. 6. Check sole plate to slab connection, additional anchors may be required for lateral and shear load transfer.

ALLOWABLE VALUES	
Connection Type	Allowable Value
Foundation / S.Y.P. Top Plate	3840 lbs.
Foundation / Spruce-Pine-Fir Top Plate	3840 lbs.
Lintel or Bond Beam / S.Y.P. Top Plate	3840 lbs.
Lintel or Bond Beam / Spruce-Pine-Fir Top Plate	3840 lbs.

Placement at slab level:

Corners When presetting the all-thread rod at a building corner, the rod

should be placed 8 to 12 inches away from the corner so it does not set under the corner framing members. When a all-thread rod is specified at a building corner, it may be placed on either side of the corner.

Header ends When presetting the all-thread rod at a header end, the rod

should be placed 8 to 12 inches away from the header end so it does not fall under the stud pack framing members.

Top Connections

Top connections made at corners and header ends shall be made within 2 inches of the framing pack. A nut and 3X3 washer shall be applied to

the top plates and tightened securely. Intermediate Coupler Connections

When using the rod coupler, care should be taken to ensure full and equal thread engagement. This is easily achieved by threading the coupler all the way onto the rod, then standing the two rods end to end, then threading the coupler back over the rod joint so each rod is halfway into the coupler.

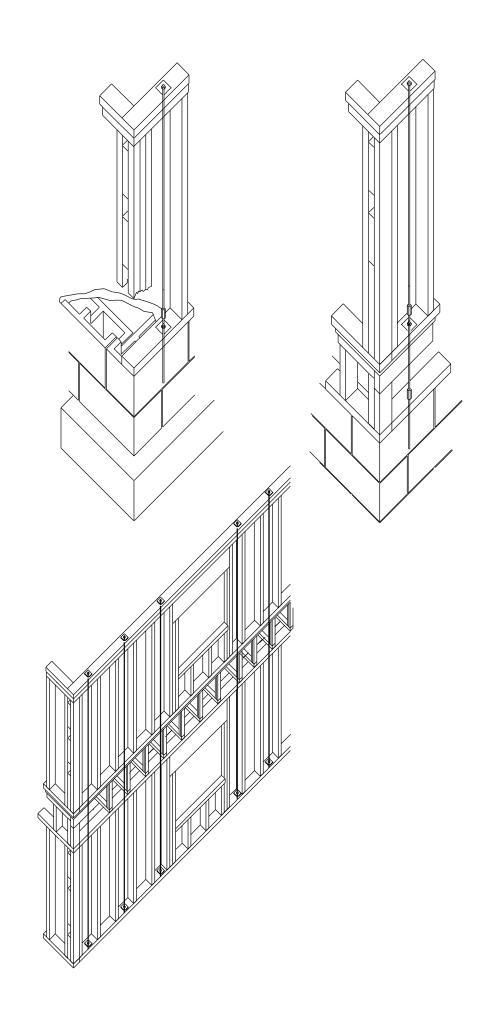
Retro-fits In the case of an all thread rod misplacement, the rod may be epoxied into the concrete

Sole plate to slab connection:

The slab level sole plate shall be connected to the slab with the connectors specified and at the spacing specified within the design documents. All-thread rods shall be placed as per the design specifications. All-thread rods with a nut and washer at the sole plate will qualify as a sole plate connection but may require other anchors intermediate of the all-thread rod locations to qualify the specified spacing requirements.

On multiple story applications, the all-thread rod system shall be rechecked

for proper tension just before the walls are veneered. This will allow the all-thread rod system to compensate for the buildings dead load compression.



REVISIONS

DESCRIPTION

DATE BY

SHEARWALL NOTES:

OR ALONG BLOCKING.

1. ALL SHEARWALLS SHALL BE TYPE 2 SHEARWALLS

AS DEFINED BY STD 10-99 305.4.3. THE WALL SHALL BE ENTIRELY SHEATHED WITH

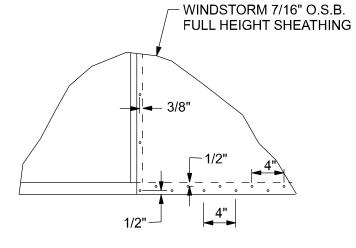
7/16" O.S.B. INCLUDING AREAS ABOVE AND BELOW OPENINGS. 3. ALL SHEATHING SHALL BE ATTACHED TO FRAMING ALONG ALL FOUR EDGES WITH JOINTS FOR ADJACENT

PANELS OCCURING OVER COMMON FRAMING MEMBERS

4. NAIL SPACING SHALL BE 6" O.C. EDGES AND 12" O.C. IN THE FIELD.

TYPE 2 SHEARWALLS ARE DESIGNED FOR THE OPENING IT CONTAINS. MAXIMUM HEIGHT OF OPENING SHALL BE 5/6 TIMES THE WALL HEIGHT. THE MINIMUM DISTANCE BETWEEN OPENINGS SHALL BE THE WALL HEIGHT/3.5 ie. FOR 8'-0" WALLS - (2'-3").

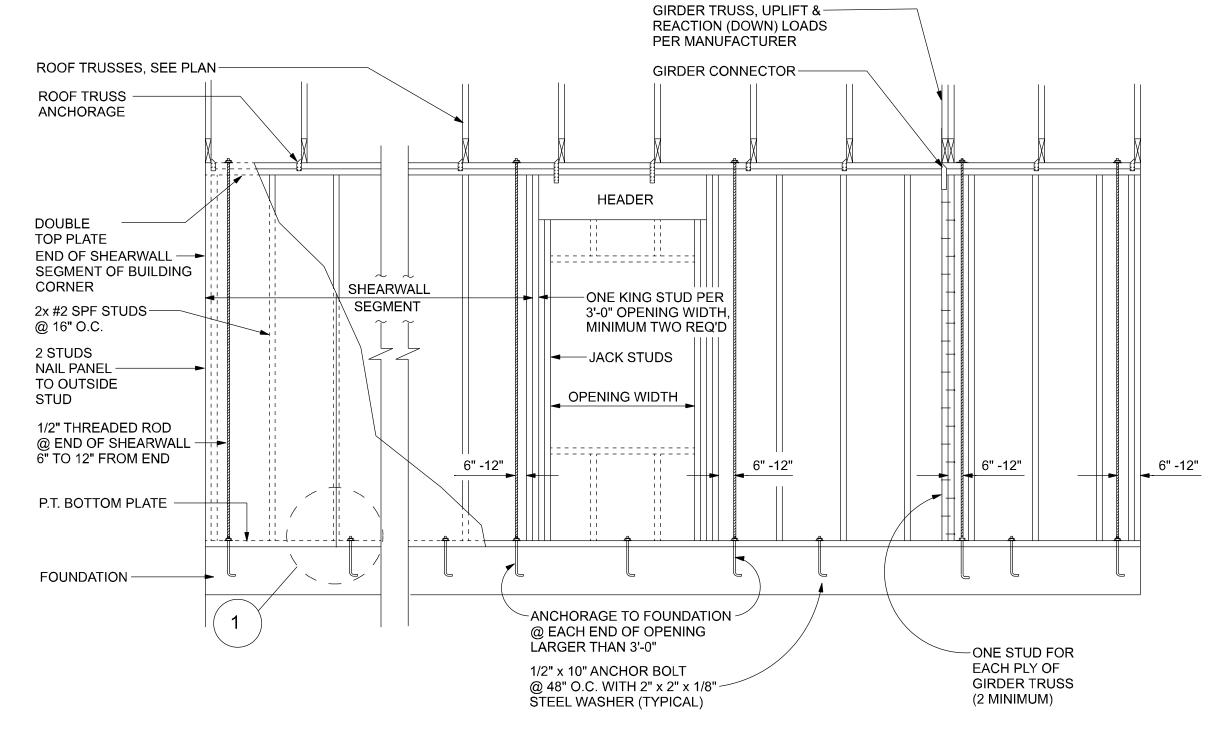
OPENING WIDTH	SILL PLATES	16d TOE NAILS EACH END
UP TO 6'-0"	(1) 2x4 OR (1) 2x6	1
> 6' TO 9'-0"	(3) 2x4 OR (1) 2x6	2
> 9' TO 12'-0"	(5) 2x4 OR (2) 2x6	3



DOUBLE NAIL EDGE SPACING TOP AND BOTTOM PLATE

UPLIFT CAPACITY = 474 plf (TABLE 305S1 SSTD10-99)

ALL WALL SHEATHING SHALL BE WINDSTORM 1 1/8" FULL HEIGHT SHEATHING-SEE DETAIL 1 FOR NAILING



SHEARWALL DETAILS

SCALE: 1/2" = 1'-0"

VERIFY GIRDER TRUSS LOCATION ON TRUSS LAYOUT FOR REQ'D ALL THREAD AT GIRDER LOCATION

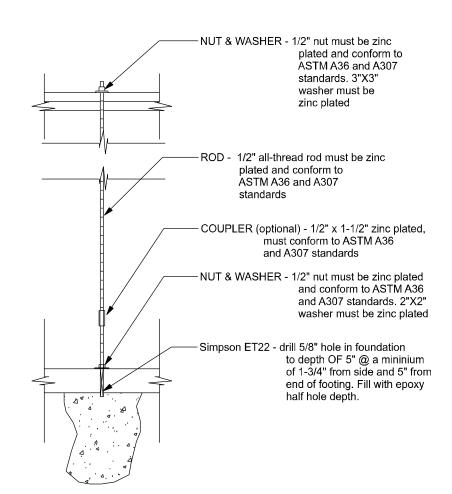
		-simpson HUC412 -1/2" ATR 6" - 12" OF PORCH BEAM
porch beam		
double 2x or solid 4x post—	 72"	

ALL THREAD @ PORCH BEAM

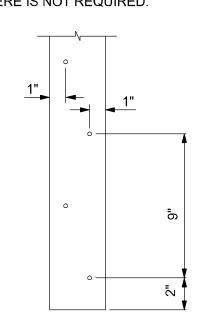
ALLOWABLE DEFLECTION OF STRUCTURAL MEMBERS

STRUCTURAL MEMBER	ALLOWABLE DEFLECTION
rafters having slopes greater than 2/12 with no finished ceiling attached to rafters	L/180
interior walls and partitions	H/180
floors and plastered ceilings	L/360
all other structural members	L/240
exterior walls with plaster or stucco finish	H/360
exterior walls - wind loads with brittle finishes	L/240
exterior walls - wind loads with flexible finishes	L/120

OPENING CONNECTION REQUIREMENTS **CONNECTOR AT** ANCHORAGE TO **HEADER SIZE** CLEAR FOUNDATION @ EACH #2 GRADE OR EACH END OF OPENING END OF OPENING BETTER OPENING WIDTH END BEARING 0' - 3' (2) 2x8 1.5" >3' - 6' (2) 2x10 1/2" ALL THREAD ROD 1/2" ALL THREAD ROD 1/2" ALL THREAD ROD 1/2" ALL THREAD ROD >6' - 9' (2) 2x12 3" 1/2" ALL THREAD ROD 1/2" ALL THREAD ROD (2) 1 3/4" x 11 1/4" LVL - 2.0E >9' - 12' (2) 1 3/4" x 11 1/4" LVL - 2.0E 1/2" ALL THREAD ROD 1/2" ALL THREAD ROD 1/2" ALL THREAD ROD (2) 1 3/4" x 11 1/4" LVL - 2.0E >15' - 18' 1/2" ALL THREAD ROD

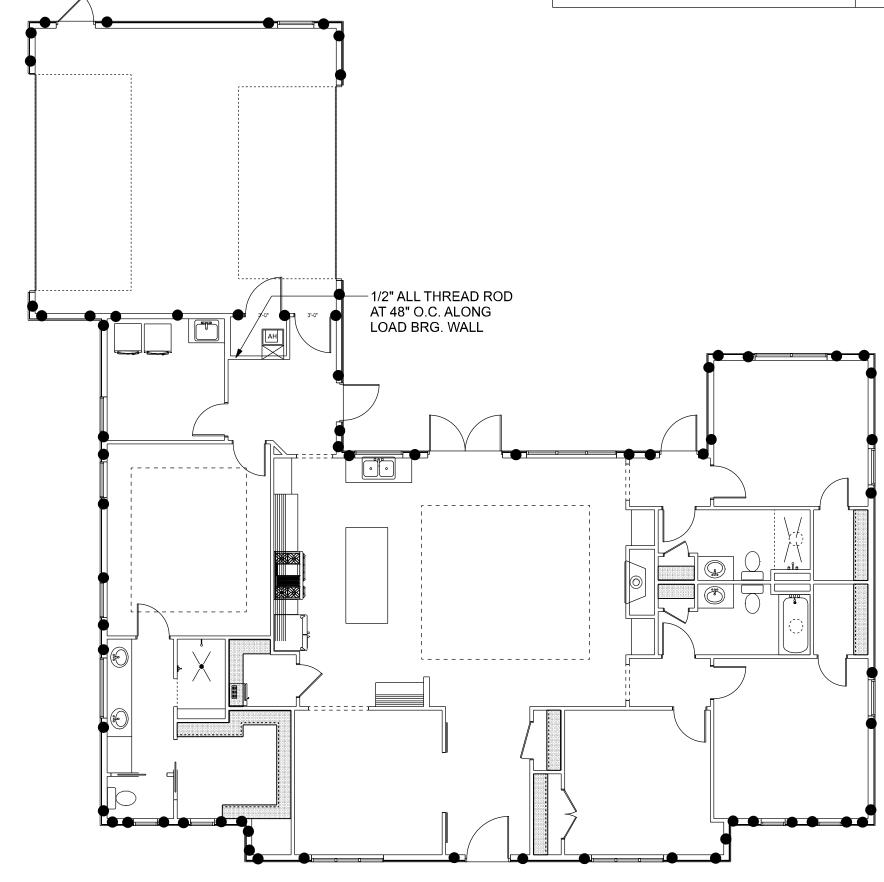


A SOLID MEMBER OF EQUAL OR GREATER SIZE THAN MULTIPLE MEMBERS MAY BE USED. IF RATED SHEATHING IS APPLIED TO NARROW EDGES, NAILED TO EACH STUD AT 12" O.C. MAXIMUM, THE LAMINATION NAILING SHOWN HERE IS NOT REQUIRED.



GIRDER COLUMN DETAIL SCALE: 1/2" = 1'-0"

END (TOP OR BOTTOM)



ALL THREAD DETAIL

ALL THREAD LOCATION

DESIGN BY: CERTIFIED GENERAL CONTRACTOR TRADEMARK **Construction Group, Inc.**

LAKE CITY, FL. 32025 (386)755-5254

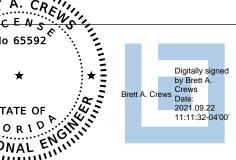
Crews Engineering Services, LLC

CGC1514780



F AUTHORIZATION . 28022	*
	PRO

PHONE: 386.623.4303



Brett A. Crews, P.E. 65592

	DRAWN BY:
d	TM
0'	APPROVED BY:
	ВС

LAWRENCE RESIDENCE	PROJECT NO.: R20.009
	SHEET:

SHEARWALL DETAILS A-9