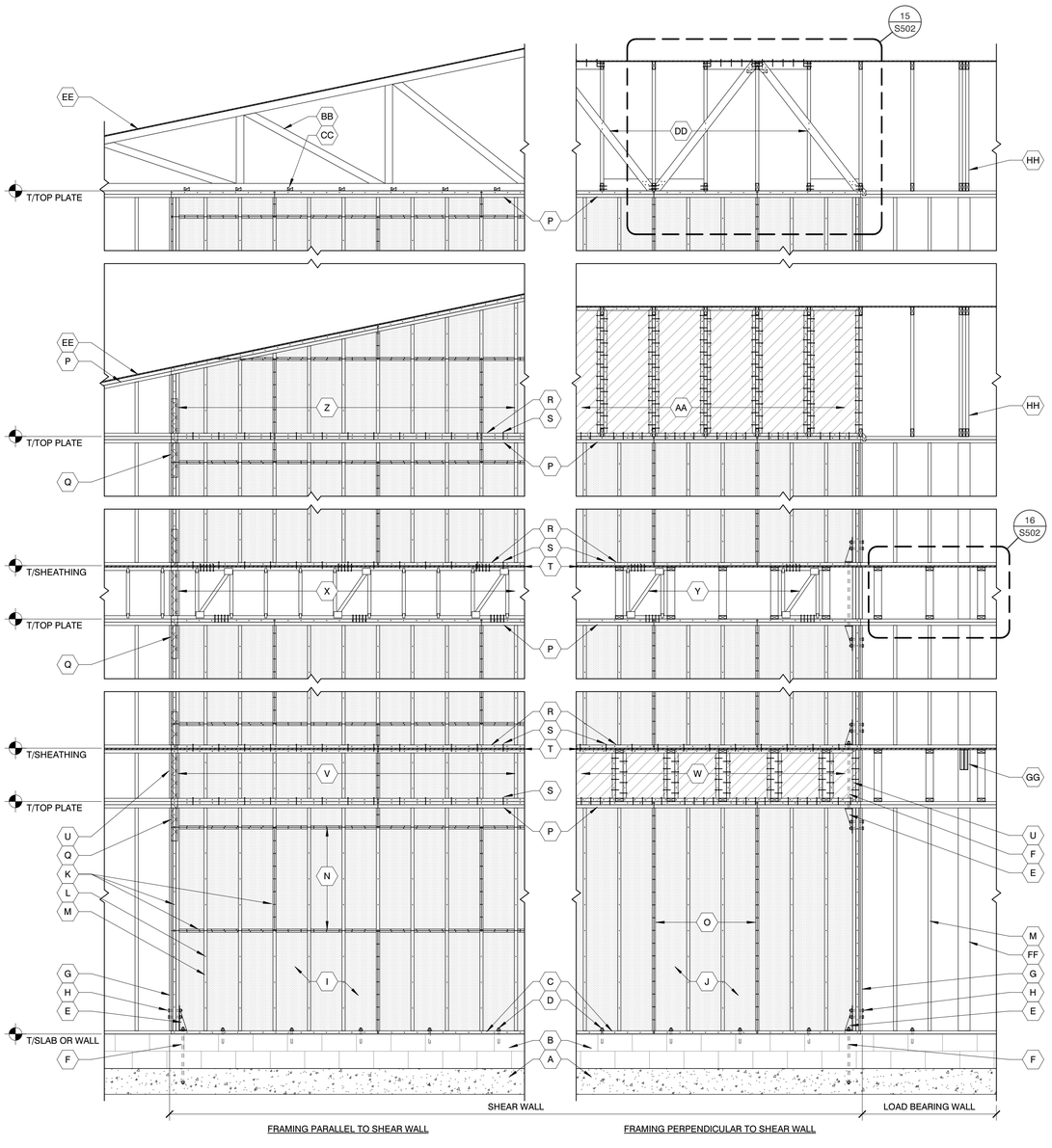


FRAMING PARALLEL TO SHEAR WALL

FRAMING PERPENDICULAR TO SHEAR WALL

GENERAL NOTES

1. THIS DETAIL IS FOR REFERENCE ONLY TO IDENTIFY THE COMPONENTS OF WOOD STUD WALL CONSTRUCTION. FOR SPECIFIC REQUIREMENTS OF WALL CONSTRUCTION, REFER TO NOTES, PLANS AND DETAILS.

KEYED NOTES

A. FOOTING
B. FOUNDATION WALL (CMU OR CONCRETE)
C. SILL PLATE
D. SILL PLATE ANCHOR
E. HOLDOWN
F. HOLDOWN ANCHOR
G. BOUNDARY MEMBER; WHEN MULTIPLE 2x MEMBERS ARE USED, JOIN EACH PLY TOGETHER WITH (2) ROWS OF 16d NAILS AT SHEAR WALL B.F. SPACING
H. BOUNDARY MEMBER FASTENERS
I. WALL SHEATHING - HORIZONTAL LAYOUT
J. WALL SHEATHING - VERTICAL LAYOUT
K. WALL SHEATHING BOUNDARY FASTENERS (B.F.)
L. WALL SHEATHING FIELD FASTENERS (F.F.)
M. WALL STUD
N. BLOCKING AT ALL HORIZONTAL PANEL JOINTS AS FOLLOWS. WHEN (2) 2x MEMBERS ARE USED, JOIN TOGETHER WITH (2) ROWS OF 16d NAILS AT SHEAR WALL B.F. SPACING.
   1. SHEATHING ONE SIDE
      a. WIDE FACE VERT.: 2x MEMBERS
      b. WIDE FACE HORIZ.:
         - B.F. SPACING > 3" O.C.: 2x MEMBERS
         - B.F. SPACING ≤ 3" O.C.: 3x OR (2) 2x MEMBERS
   2. SHEATHING BOTH SIDES
      a. WIDE FACE VERT.: 2x MEMBERS BOTH SIDES
      b. WIDE FACE HORIZ.: 3x OR (2) 2x MEMBERS

KEYED NOTES

O. STUD AT ALL VERTICAL PANEL JOINTS. WHERE B.F. SPACING ≤ 3" O.C. OR WALL HAS SHEATHING BOTH SIDES, PROVIDE 3x OR (2) 2x MEMBERS. WHEN (2) 2x MEMBERS ARE USED, JOIN TOGETHER WITH (2) ROWS OF 16d NAILS AT SHEAR WALL B.F. SPACING.
P. DOUBLE TOP PLATE
Q. STRAP-TIE HOLDOWN
R. BOTTOM PLATE
S. BOTTOM PLATE FASTENERS
T. FLOOR SHEATHING
U. CRIPPLE STUDS OR POST AT HOLDOWN (MATCH BOUNDARY MEMBER SIZE BELOW)
V. CRIPPLE WALL (MATCH WALL STUDS BELOW) OR FLOOR LADDER TRUSS AT PARALLEL SHEAR WALL
W. FLOOR TRUSS BLOCKING PANELS AT PERPENDICULAR SHEAR WALL
X. FLOOR DRAG TRUSS AT PARALLEL SHEAR WALL
Y. FLOOR TRUSS BLOCKING TRUSS AT PERPENDICULAR SHEAR WALL
Z. CRIPPLE WALL (MATCH WALL STUDS BELOW) OR ROOF LADDER TRUSS AT PARALLEL SHEAR WALL
AA. ROOF TRUSS BLOCKING PANELS AT PERPENDICULAR SHEAR WALL
BB. ROOF DRAG TRUSS AT PARALLEL SHEAR WALL
CC. ROOF DRAG TRUSS FASTENER
DD. ROOF TRUSS BRACING AT PERPENDICULAR SHEAR WALL
EE. ROOF SHEATHING
FF. POST OR STUD PACK
GG. BEAM
HH. GIRDER TRUSS

WOOD STUD WALL ELEVATION GUIDE

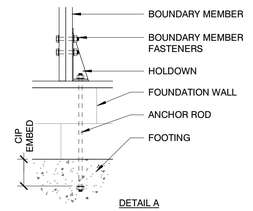
SCALE : 3/8" = 1'-0"

1

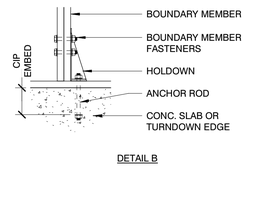
HOLDOWN AND STRAP-TIE HOLDOWN SCHEDULE

MARK	TYPE	BOUNDARY MEMBER AND FASTENERS: MEMBER	BOUNDARY MEMBER AND FASTENERS: FASTENERS	BOUNDARY MEMBER AND FASTENERS: END LENGTH	BASE ANCHORAGE: LOCATION	BASE ANCHORAGE: ANCHOR ROD	BASE ANCHORAGE: EMBEDMENT CIP	BASE ANCHORAGE: EMBEDMENT EPOXY	TENSILE CAPACITY	DETAIL(S)
HD1	HD5B	(2) 2X MIN.	(2) 3/4" Ø THRU BOLTS	--	FOOTING	5/8" Ø	7 1/2"	--	3785 lbs	A, B
HD2	HD7B	(3) 2X MIN.	(3) 3/4" Ø THRU BOLTS	--	FOOTING	7/8" Ø	10 1/2"	--	6245 lbs	A, B
HD3	HD9B	(3) 2X MIN.	(3) 7/8" Ø THRU BOLTS	--	FOOTING	7/8" Ø	10 1/2"	--	8430 lbs	A, B
HD4	HD12	(3) 2X MIN.	(4) 1" Ø THRU BOLTS	--	FOOTING	1" Ø	12"	--	10765 lbs	A, B
ST1	CS14	(2) 2X MIN.	(36) 8d EA. END	19"	WALL BELOW	--	--	--	2490 lbs	E
ST2	CMST14	(2) 2X MIN.	(76) 10d EA. END	34"	WALL BELOW	--	--	--	6475 lbs	E

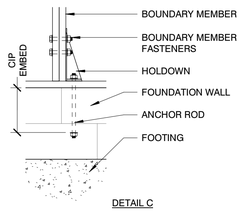
NOTES:
1. HOLDOWN AND STRAP-TIE HOLDOWNS LISTED ARE SIMPSON STRONG-TIE PRODUCTS. INSTALL PRODUCTS AS REQUIRED BY SIMPSON CATALOG AND ACCOMPANYING INSTALLATION INSTRUCTIONS TO OBTAIN THE CAPACITIES LISTED.
2. THREADED ANCHOR RODS TO BE ASTM A307, A36 OR F1554 GRADE 36 MATERIAL.
3. LAG SCREWS SHALL NOT BE USED.
4. STITCH STUD PACK PLYS TOGETHER PER WOOD FASTNENING SCHEDULE ON S0 SHEETS.
5. INCREASE FOOTING DEPTH WHERE EMBEDMENT LENGTH PLUS 3" IS GREATER THAN FOOTING DEPTH SPECIFIED.
6. STRAP-TIE HOLDOWNS CANNOT BE BENT OUT OF POSITION FOR WALL INSTALLATION.



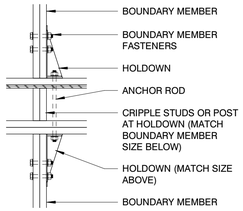
DETAIL A



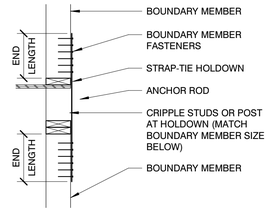
DETAIL B



DETAIL C



DETAIL D



DETAIL E

SHEAR WALL SHEATHING SCHEDULE

MARK	SHEATHING	SHEATHING FASTENERS: FASTENER	SPACING: B.F.	SPACING: F.F.	BLOCKED	SHEAR CAPACITY
PS1	15/32" PLYWOOD	8d	6"	12"	Yes	365 plf
PS2	15/32" PLYWOOD	8d	4"	12"	Yes	530 plf
PS3	15/32" PLYWOOD	10d	4"	12"	Yes	645 plf

NOTES:
1. FASTENER SIZES SHALL BE AS FOLLOWS:
   a. 0.120" NAIL x 1-3/4" LONG, 7/16" HEAD, DIAMOND-POINT, GALVANIZED
   b. #6 x 1-1/4" LONG TYPE S OR W DRYWALL SCREWS
   c. 8d COMMON NAILS
   d. 10d COMMON NAILS
2. NAILS SHALL NOT TEAR THE PAPER OF GYPSUM SHEARWALLS.
3. NAILS SHALL NOT BE DRIVEN PAST FLUSH WITH THE FACE OF PLYWOOD SHEATHING.
4. MATERIAL THICKNESS AND FASTENER SIZES SHOWN ARE MINIMUMS.
5. PLYWOOD SHEATHING TO BE APA RATED SHEATHING 32/16 C-D EXPOSURE I (OR COMMONLY CDX) UNLESS NOTED OTHERWISE.
6. ORIENTED STRAND BOARD (OSB) MAY BE SUBSTITUTED FOR PLYWOOD SHEATHING.
7. BOUNDARY FASTENER (B.F.) SPACING REFERS TO ATTACHMENT REQUIRED ALONG ALL THE SUPPORTED EDGES OF EACH SHEATHING PANEL SHEET.
8. FIELD FASTENER (F.F.) SPACING REFERS TO ATTACHMENT REQUIRED ALONG ALL INTERMEDIATE SUPPORTS BEHIND EACH SHEATHING PANEL SHEET.
9. SHEATHING TYPE MARKED AS BLOCKED MUST HAVE ALL FREE EDGES SUPPORTED BY BLOCKING OR THE PANELS MUST BE ORIENTED VERTICALLY AND SIZED TO EXTEND ENTIRELY FROM BOTTOM TO TOP PLATE SUCH THAT NO EDGES ARE LEFT UNSUPPORTED.
10. SHEAR CAPACITY LOADS SHOWN FOR PLYWOOD WALLS REFLECT THE CODE ALLOWABLE 40% INCREASE FOR WIND LOADING AND DO NOT APPLY TO OTHER LOAD TYPES.

LOAD BEARING WALL STUD SCHEDULE KEY

DESCRIPTION	LEVEL: 1	LEVEL: 2	LEVEL: 3	FOUNDATION LOADS
DOUBLE PARTY WALL	2X4 @ 16"	2X4 @ 16"	2X4 @ 16"	4.5 klf
EXTERIOR WALL	2X6 @ 16"	2X6 @ 16"	2X6 @ 16"	2.7 klf
TYPICAL WALL	2X6 @ 16"	2X6 @ 16"	2X6 @ 16"	3.2 klf

SILL AND BOTTOM PLATE ANCHORAGE SCHEDULE

MARK	LOCATION	ANCHORAGE	SHEAR CAPACITY
BPL1	BOTTOM PLATE	(2) 16d @ 16"	335 plf
BPL2	BOTTOM PLATE	(3) 16d @ 16"	505 plf
SPL1	SILL PLATE	5/8" Ø x 3-1/2" EMBED SCREW ANCHOR @ 24"	440 plf

NOTES:
1. ALL SILL PLATES IN CONTACT WITH CONCRETE OR MASONRY TO BE PRESSURE TREATED LUMBER.
2. FOR SILL PLATE ANCHORS, THERE SHALL ALWAYS BE ONE ANCHOR PLACED NOT MORE THAN 12" NOR LESS THAN 4" FROM EACH END OF EACH SILL PLATE PIECE. THERE SHALL BE A MINIMUM OF TWO (2) ANCHORS PER SILL PLATE PIECE.
3. PROVIDE 1/4"x3x3 PLATE WASHERS AT SILL PLATE ANCHOR BOLTS. CONTRACTOR HAS OPTION TO PROVIDE A DIAGONAL SLOTTED HOLE WITH A WIDTH UP TO 3/16" LARGER THAN THE ANCHOR DIAMETER AND A SLOT LENGTH UP TO 1-3/4", PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND THE NUT.
4. WHERE STUDS ARE CUT FOR PLACEMENT OF ANCHOR BOLTS OR OTHER ELEMENTS, AN ADJACENT STUD SHALL BE ADDED.

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PROJECT INFORMATION

PROJECT:

WESTWOOD AT WINTER HAVEN APARTMENTS

PROJECT ADDRESS:

Avenue G
Winter Haven, FL 36801
HUD# 067-35554

PROJECT NO.: 180888

ACTIVE DESIGN PHASE

- ☐ FOR REVIEW ONLY
- ☐ FOR PERMITTING ONLY
- ☐ SCHEMATIC DESIGN
- ☐ DESIGN DEVELOPMENT
- ☐ CONSTRUCTION BIDDING
- ■ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION

KEY PLAN

SHEET INFORMATION

SHEET ISSUED:	03-25-19
DESIGNED BY:	KRG
DRAWN BY:	JCP
REVIEWED BY:	RMG

SHEET TITLE:

TYPICAL WOOD DETAILS AND SCHEDULES

SHEET NO.:

S003

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