

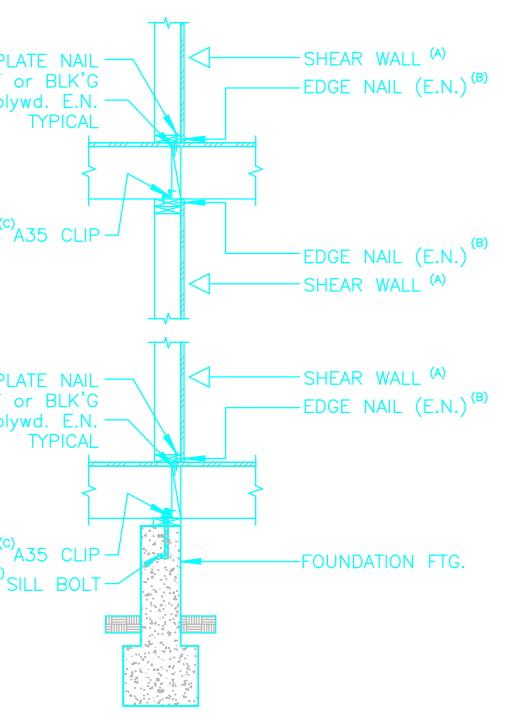
NEW CONSTRUCTION - SHEAR WALL SCHEDULE					
SHEAR WALL TYPE	C-D or OSB SHEATHING	EDGE NAILING	JOISTS or BLOCKS TO TOP PLATE	SOLE PLATE TO JOISTS or BLK'G	SILL BOLTS TO CONCRETE
(FIELD-BUILT)	APA RATED	8d Common Nails @	SIMPSON ANCHOR	SDS 1/4" x 4.5" wood screw (Notes 1.15, 4.17)	5/8" x 12" at (Notes 1.3, 8.19) (8)
1	3/8"	8d @6" o.c.	A35 at 16" o.c. (24" o.c. at ROOF)	1 screw @16" o.c.	48" o.c. 3x SILL PLATE
2	3/8"	8d @4" o.c.	A35 at 16" o.c.	1 screw @16" o.c.	48" o.c. 3x SILL PLATE
3	3/8"	8d @3" o.c. (Note 1)	2-A35 at 16" o.c.	2 screws @16" o.c.	48" o.c. 3x SILL PLATE
4	3/8"	8d @2" o.c. (Note 1)	2-A35 at 16" o.c.	2 screws @16" o.c.	48" o.c. 3x SILL PLATE
5	1/2"	10d @6" o.c.	A35 at 16" o.c.	1 screw @16" o.c.	48" o.c. 3x SILL PLATE
6	1/2"	10d @4" o.c. (Note 1)	2-A35 at 16" o.c.	2 screws @16" o.c.	32" o.c. 3x SILL PLATE
7	1/2"	10d @3" o.c. (Note 1)	2-A35 at 16" o.c.	2 screws @16" o.c.	24" o.c. 3x SILL PLATE
8	1/2"	10d @2" o.c. (Note 1)	2-A35 at 16" o.c.	3 screws @16" o.c.	16" o.c. 3x SILL PLATE
9	3/8" EACH FACE	8d @4" o.c. (Notes 154)	3-A35 at 16" o.c.	3 screws @16" o.c. @16" o.c. (Notes 4.12)	16" o.c. 3x SILL PLATE
10	3/8" EACH FACE	8d @3" o.c. (Notes 154)	3-A35 at 16" o.c.	3 screws @16" o.c. @16" o.c. (Notes 4.12)	16" o.c. 3x SILL PLATE
11	1/2" EACH FACE	10d @3" o.c. (Notes 154)	3-A35 at 16" o.c.	4 screws @16" o.c. @16" o.c. (Notes 4.12)	12" o.c. 3x SILL PLATE

EXISTING STRUCTURES - SHEAR WALL SCHEDULE					
SHEAR WALL TYPE	CDX or OSB SHEATHING	EDGE NAILING	JOISTS or BLOCKS TO TOP PLATE	SOLE PLATE TO JOISTS or BLK'G	SILL BOLTS TO CONCRETE
(FIELD-BUILT)	APA RATED	8d Common Nails @	SIMPSON ANCHOR	SDS 1/4" x 4.5" wood screw (Notes 1.15, 4.17)	5/8" x 10" at (Notes 1.3, 8.19) (8)
12	3/8"	6" o.c.	A35 at 24" o.c. (U.O.N. on DETAILS)	1 screw @16" o.c.	2'-8" o.c. 2x SILL PLATE
13	3/8"	4" o.c.	A35 at 16" o.c.	2 screws @16" o.c.	1'-4" o.c. 2x SILL PLATE
14	3/8"	3" o.c. (Note 1)	A35 at 16" o.c.	2 screws @16" o.c.	1'-4" o.c. 2x SILL PLATE
15	3/8"	2" o.c. (Note 1)	2-A35 at 16" o.c.	3 screws @16" o.c.	1'-0" o.c. 2x SILL PLATE

ALL FIELD NAILING SHALL BE 8d COMMON at 12" o.c. (10d for 1/2")

HANGER SCHEDULE		
JOIST or BEAM	SPECIE	RECOMMENDED HANGER
2x6	DF-L	LUS26
2x8	DF-L	LUS28
2x10	DF-L	LUS30
4x6	PARALLAM	HU46 Min
4x8	GLU-LAM	HU48 Min
4x10	GLU-LAM	HU50 Min
4x12	GLU-LAM	HU52 Min
6x6	GLU-LAM	HU56 Min
6x8	GLU-LAM	HU58 Min
6x10	GLU-LAM	HU60 Min
6x12	GLU-LAM	HU62 Min
3.5"x9.5"	GLU-LAM	HU40
3.5"x11.25"	GLU-LAM	HU42
3.5"x11.875"	GLU-LAM	HU44
2.25"x9.5"	GLU-LAM	OLV5.29
2.25"x11.25"	GLU-LAM	OLV5.50/11.25
2.25"x11.875"	GLU-LAM	OLV5.51
1.125"x12"	GLU-LAM	OLV1
0.75"x12"	GLU-LAM	HGL19
10.25"x12"	GLU-LAM	HGL11

NOTES:
 (1) USE RECOMMENDED HANGER UNLESS OTHERWISE NOTED (U.O.N.) ON PLANS.
 (2) USE SIMPSON or EQUAL HANGERS.
 (3) OPTIONAL HANGERS MAY BE USED IN LIEU OF WHAT IS RECOMMENDED. CONSULT PROJECT ENGINEER.



- (CONTRACTOR SHALL READ & UNDERSTAND THESE NOTES BEFORE CONSTRUCTION)
- Where allowable shear exceeds 350 pounds per foot (plf), foundation all plates & all members receiving edge nailing from abutting panels shall not be less than a single 3/4" nominal member; see note 16 for all plate option.
 - All shear wall nails shall be of type Common, or Galvanized Box. Galvanized nails shall be hot-dipped or tumbled.
 - Foundation all plates shall be pressure treated Douglas-Fir Larch No. 2 or equal lumber, see schedule for all size. All anchor bolts shall be minimum 3/4" dia. (7' embedment) & spaced not more than 4'-0" apart. See shear schedule for actual spacing. For each sill bolt, minimum plate washers of 3" by 3" sq. by 1/4" thick shall be used.
 - Where panels are applied on both faces of a wall and spacing is less than 6" o.c. on either side, panel joints shall be offset to fall on different framing members OR framing shall be min. 3" nominal MD stagger all nails.
 - All shear wall sheathing shall extend to the bottom of the roof sheathing, u.o.n. by the details.
 - Provide stud or blocking of all openings for continuous shear support & uniform wall thickness.
 - Extend shear sheathing over all openings for continuous shear support & uniform wall thickness.
 - Shear wall panels shall not be less than 24" in either direction, u.o.n. by the special details.
 - Framing for roof walls shall be min. 2x4 (nominal) studs, DF-L No. 2 or greater, spaced at max. 16" o.c.
 - All posts receiving holdowns shall have shear edge nailing full ft.
 - For 1-1/8" floor sheathing applications, use SDS 1/4" x 4.5" wood screws in lieu of 4" screws.
 - SDS 1/4" dia. x 6" wood screws required.
 - If gun nails are to be used, then adjust power such that the nail head does not protrude the sheathing.
 - When ordering large quantities of nails, verify the carton label with the MFR. But the nails have the same length and diameter values as the nails specified in note #2.
 - Specify SDS wood screws (SDS 1568), follow Simpson guidelines necessary to achieve full ICBO design values.
 - 2x P.I.D.F. all plate may be used in lieu of 3x provided maximum shear does not exceed 600 plf and anchor bolts are designed & spaced at 500' or less the allowable capacity.
 - 16d (1.5" length) Common Nails may be used in lieu of SDS wood screws:
 Type 1 OR 12 shear wall: 16d Common @6" o.c. - 16d nails shall be of type Common w/ length = 3.5" & diameter = 0.162"
 Type 2 OR 13 shear wall: 16d Common @4" o.c.
 Type 3 OR 14 shear wall: 16d Common @3" o.c.
 Type 4 OR 15 shear wall: 16d Common @2.5" o.c.

FOUNDATION SILL BOLTS	
Class D	
• 5/8" diameter sill bolts min.	
• 6"-0" o.c. max. spacing	
• 7" min. embedment	
• 3"x3"x1/4" min. plate washers	
• 12" max./7d ₉ min. from end of plates	

COLLECTORS DATA :

STRAP DENOTES A COLLECTOR
 2-2x4 RAFTERS (OR JOISTS)
 2-2x4 Collector Rafter SEE DETAILS

INDICATES A DRAG STRAP TO BE INSTALLED AT ROOF/FLOOR FRAMING-SEE DETAILS STRAP AND NOTE BELOW :

SHEATHING SHALL BE EDGE NAILED ALONG COLLECTORS. TYP.

DASHED LINE= COLLECTOR ONE ROW OF CS-16 STRAP, NAILED W/8d COMMON AT 4" o.c. THROUGH PLYWOOD INTO 3x4 SOLID BLK'G

DOUBLE DASHED LINE= COLLECTOR STRAP, NAILED W/8d COMMON AT 4" o.c. THROUGH PLYWOOD INTO 4x4 SOLID BLK'G

DENOTES A COLLECTOR ONE ROW OF CMST14 STRAP, NAILED W/10d COMMON AT 3.0" o.c. THROUGH PLYWOOD INTO 3x4 SOLID BLK'G

Extend all CS16 collector straps 2'-0" over the end members. Use 8d, all holes filled, U.O.N. Field nailing to be 8d@4" o.c., Typical

Extend all CMST14 collector straps 3'-0" over the end members. Use 16d, all holes filled, U.O.N. Field nailing to be 16d@3.5" o.c., Typical

SPREAD NAILS EVENLY, NOT CLOSER THAN 2" o.c.

USE 8d FOR CS16 STRAPS

USE 16d FOR CMST14 STRAPS

USE 16d FOR CMST14 STRAPS

USE 16d FOR CMST14 STRAPS

USE 16d FOR MST STRAPS

Extend all straps beyond valley min. 24" w/ all holes filled 8(16) common nails, Typ. Field nailing to be 8d(16@4" o.c.), Typical

Overlap all straps over 1/8" rafter min. 24" w/ all holes filled 8(16) common nails, Typ. Field nailing to be 8d(16@4" o.c.), Typical

COLLECTOR SCHEDULE		
COLL.	END LENGTH	FIELD NAILS SPACING
CS16	2'-0" all holes filled	@4" o.c.
CMST14	3'-0" all holes filled	@3.5" o.c.

LUMBER GRADE NOTES

WOOD FRAMING LUMBER SHALL HAVE THE FOLLOWING GRADES UNLESS NOTED OTHERWISE ON PLANS:

SILL PLATE	PRESSURE TREATED DOUGLAS FIR-LARCH
STUDS	DOUGLAS FIR-LARCH #2
RAFTERS	DOUGLAS FIR-LARCH #2
JOISTS	DOUGLAS FIR-LARCH #2
PLATES	DOUGLAS FIR-LARCH #2
HEADERS	DOUGLAS FIR-LARCH #2
POSTS (4x & LESS)	DOUGLAS FIR-LARCH #2
POSTS (5x & GREATER)	DOUGLAS FIR-LARCH #1
BEAMS (4x & LESS)	DOUGLAS FIR-LARCH #2
BEAMS (5x & GREATER)	DOUGLAS FIR-LARCH #1
GLU-LAM BEAMS	24F-V4 DF/DF
PARALLAM	PSL 2.0E
MICROLAM	LVL 2.0E

ROOF and FLOOR SHEATHING SCHEDULE	
ROOF SHEATHING SHALL BE APA RATED 15/32" (1/2" NOMINAL); PANEL ID INDEX 32/16; EXPOSURE 1; UNBLOCKED U.O.N.; EDGE NAIL WITH 8d COMMON NAILS AT 6" o.c. AND 12" IN THE FIELD; USE PLYWOOD CLIPS AT UNSUPPORTED EDGES.	
FLOOR SHEATHING SHALL BE APA RATED 23/32" (3/4" NOMINAL); T&G; PANEL ID INDEX 48/24; EXPOSURE 1; UNBLOCKED U.O.N.; EDGE NAIL WITH 8d COMMON NAILS AT 6" o.c. AND 10" IN THE FIELD.	

NOTE:
 ORIENTED STRAND BOARD (OSB) STRUCTURAL PANEL SHEATHING MAY BE USED IN LIEU OF CDX PLYWOOD. OSB PANELS MUST MEET UNITED STATES DEPARTMENT OF COMMERCE VOLUNTARY PERFORMANCE STANDARD PS2-92 "PERFORMANCE STANDARD FOR WOOD BASED STRUCTURAL USE PANELS" AND/OR CANADIAN PERFORMANCE STANDARD CSA 0325 "CONSTRUCTION SHEATHING" OSB CERTIFIED MARKS (APA, TECO, OR PSI) ARE EXAMPLES OF ICBO APPROVED & PS 292 QUALIFIED PANELS.



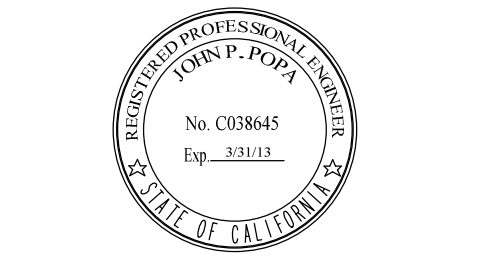
ALL METAL ANCHORS, FASTENERS, CONNECTORS ETC THAT WILL BE IN CONTACT WITH PRESSURE TREATED LUMBER, MUST BE HOT-DIPPED GALVANIZED OR OTHER APPROVED CORROSION RESISTANT MATERIAL. ANCHOR BOLTS, HOLD DOWN ANCHOR BOLTS AND ALL OTHER INSERTS, SHALL BE POSITIONED IN PLACE, PRIOR TO CALLING FOR FOUNDATION INSPECTION

FOUNDATION PLAN

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

IF THIS PROJECT IS A REMODEL OF AN EXISTING STRUCTURE, THE FOLLOWING APPLIES: STRUCTURAL SYSTEM IS NOT COVERED BY THIS DESIGN CONTRACT. SHOULD THESE MEMBERS BE NOTIFIED OF ANY EXISTING STRUCTURE, SUCH AN INVESTIGATION MAY TAKE PLACE AFTER THE COMMENCEMENT OF CONSTRUCTION. AT THE TIME THE FRAMING WILL BE EXPLODED, THE OWNER, WITH THE RESPONSIBILITY TO CONDUCT SUCH AN INVESTIGATION, HAVE THE RESPONSIBILITY TO NOTIFY THIS ENGINEER, WHO WILL RECOMMEND THE APPROPRIATE SOLUTIONS. FAILURE TO NOTIFY THIS ENGINEER, WILL RELEASE THIS ENGINEER, FROM ANY LIABILITY. BY ACCEPTING THIS WORK, BOTH THE OWNER AND THE CONTRACTOR CONFIRM THE ACCEPTANCE OF THEIR RESPONSIBILITIES, AS STATED HEREIN.

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REVISION	
△	PER PLAN CHECK
△	ENGINEERING

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PROJECT #: 11020	DATE: May 2011
DRAWN BY: jp	SCALE: 1/4"=1'-0"
PROJECT MANAGER: jp	
ENGINEERED BY: jp	
REVIEWED BY: John	

FOUNDATION PLAN

AutoCAD 14
 Arch. TD Sheet
 1/4"=1'-0"

S1

(BOND PRINTS RECOMMENDED WHEN REPRODUCING)
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