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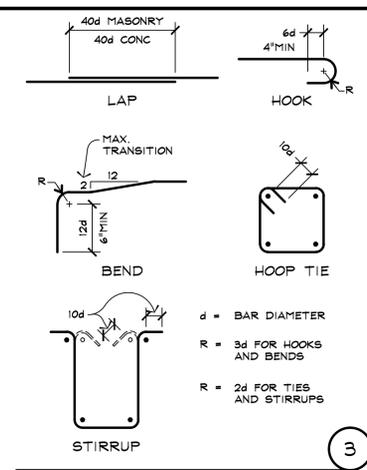
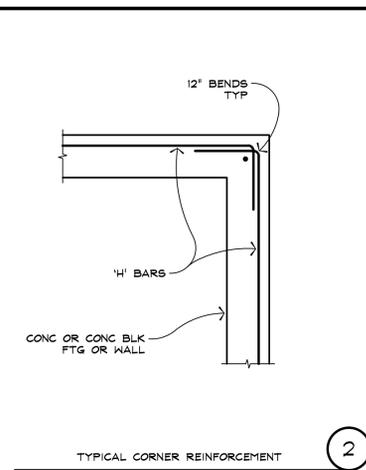
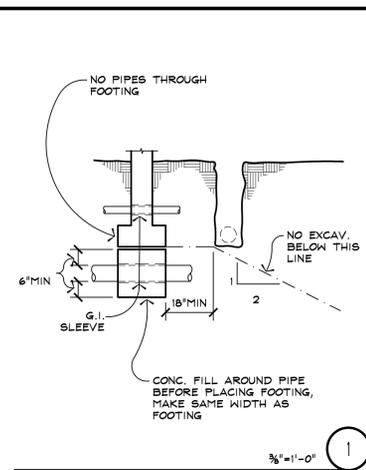
REVISIONS	BY

STANDARD STRUCTURAL REQUIREMENTS, LARGE OUTBUILDINGS WITH SHEAR ON 4 SIDES AND 40 PSF SNOW LOAD, MONO COUNTY, CALIFORNIA

COUNTY OF MONO
COMMUNITY DEVELOPMENT DEPARTMENT
BUILDING DIVISION
P.O. BOX 8
74 N. SCHOOL ST., ANNEX 1
BRIDGEPORT, CA 93546
(760) 932-5400; FAX: 932-5432



DATE	
SCALE	AS NOTED
DRAWN	
JOB	
SHEET	51
OF 4 SHEETS	



HEADER SPANS, EAVE WALLS, 14'-20' WIDE OUTBUILDINGS, 40 PSF SNOWLOAD			HEADER SPANS, EAVE WALLS, 20'-24' WIDE OUTBUILDINGS, 40 PSF SNOWLOAD			HEADER SPANS, EAVE WALLS, 24'-30' WIDE OUTBUILDINGS, 40 PSF SNOWLOAD			HEADER SPANS, RAKE WALLS, 14'-30' WIDE OUTBUILDINGS, 40 PSF SNOWLOAD		
HEADER SIZE	MAXIMUM ROUGH OPENING WIDTH	# OF TRIMMERS E.S.	HEADER SIZE	MAXIMUM ROUGH OPENING WIDTH	# OF TRIMMERS E.S.	HEADER SIZE	MAXIMUM ROUGH OPENING WIDTH	# OF TRIMMERS E.S.	HEADER SIZE	MAXIMUM ROUGH OPENING WIDTH	# OF TRIMMERS E.S.
4x6	4'-0"	1-2x4	4x6	5'-0"	1-2x4	4x6	3'-0"	1-2x4	4x6	8'-6"	1-2x4
4x8	5'-0"	1-2x4	4x8	6'-0"	1-2x4	4x8	4'-6"	1-2x4	4x8	10'-6"	1-2x4
4x10	6'-0"	1-2x4	4x10	7'-0"	1-2x4	4x10	6'-6"	1-2x4	4x10	13'-6"	1-2x4
4x12	7'-0"	1-2x4	4x12	8'-0"	1-2x4	4x12	8'-6"	1-2x4	4x12	16'-6"	1-2x4
3 1/2 x 9 1/2 PARALLAM	11'-0"	2-2x4	3 1/2 x 9 1/2 PARALLAM	10'-6"	2-2x4	3 1/2 x 9 1/2 PARALLAM	9'-6"	2-2x4	3 1/2 x 9 1/2 PARALLAM	17'-6"	2-2x4
3 1/2 x 11 1/2 PARALLAM	14'-0"	2-2x4	3 1/2 x 11 1/2 PARALLAM	13'-0"	2-2x4	3 1/2 x 11 1/2 PARALLAM	12'-0"	2-2x4	3 1/2 x 11 1/2 PARALLAM	11'-0"	2-2x4
6x6	6'-6"	1-2x6	6x6	5'-0"	1-2x6	6x6	4'-6"	1-2x6	6x6	15'-0"	1-2x6
6x8	8'-0"	1-2x6	6x8	7'-0"	1-2x6	6x8	6'-6"	1-2x6	6x8	19'-6"	1-2x6
6x10	10'-0"	1-2x6	6x10	9'-6"	1-2x6	6x10	8'-6"	1-2x6	6x10	23'-6"	1-2x6
6x12	12'-6"	1-2x6	6x12	12'-0"	1-2x6	6x12	10'-6"	1-2x6	6x12	23'-6"	1-2x6
5 1/2 x 11 1/2 PARALLAM	15'-0"	2-2x6	5 1/2 x 11 1/2 PARALLAM	15'-0"	2-2x6	5 1/2 x 11 1/2 PARALLAM	14'-0"	2-2x6	5 1/2 x 11 1/2 PARALLAM	14'-0"	2-2x6
5 1/2 x 14 PARALLAM	18'-0"	2-2x6	5 1/2 x 14 PARALLAM	18'-0"	2-2x6	5 1/2 x 14 PARALLAM	16'-6"	2-2x6	5 1/2 x 14 PARALLAM	16'-6"	2-2x6
5 1/2 x 16 PARALLAM	20'-6"	2-2x6	5 1/2 x 16 PARALLAM	20'-6"	2-2x6	5 1/2 x 16 PARALLAM	19'-6"	2-2x6	5 1/2 x 16 PARALLAM	19'-6"	2-2x6
5 1/2 x 18 PARALLAM	23'-0"	2-2x6	5 1/2 x 18 PARALLAM	23'-0"	2-2x6	5 1/2 x 18 PARALLAM	20'-6"	2-2x6	5 1/2 x 18 PARALLAM	20'-6"	2-2x6

NOTES TO SUBMITTER: THESE PRESCRIPTIVE DESIGNS ARE INTENDED TO APPLY TO THE MOST COMMON SITUATIONS ENCOUNTERED IN MONO COUNTY. HOWEVER, UNIQUE SITE CONDITIONS OR SUBSTANTIAL DEVIATIONS FROM THESE DESIGNS AS DETERMINED BY THE BUILDING OFFICIAL MAY WARRANT ADDITIONAL ARCHITECTURAL OR STRUCTURAL DESIGN REQUIREMENTS.

THESE PLANS ARE PRIMARILY FOR THE STRUCTURAL REQUIREMENTS OF OUTBUILDINGS. THE SUBMITTER IS RESPONSIBLE FOR PREPARING AN ARCHITECTURAL PLAN, SHOWING THE ACTUAL LAYOUT OF THE OUTBUILDING. THE PLAN SHALL ALSO SHOW A STRUCTURAL LAYOUT BASED UPON THE REQUIREMENTS OF THESE PLANS. NOTE THAT THE CALIFORNIA RESIDENTIAL CODE REFERS TO ACCESSORY STRUCTURES, AND GENERALLY, THESE OUTBUILDINGS WILL BE ACCESSORY STRUCTURES, SUBJECT TO ANY REQUIREMENTS AND EXCEPTIONS DESIGNATED FOR ACCESSORY STRUCTURES.

LASTLY THE SUBMITTER IS RESPONSIBLE FOR ALL SITE SPECIFIC REQUIREMENTS, INCLUDING FLOOD PLAIN ZONES, CAL-FIRE WILDLAND URBAN INTERFACE REQUIREMENTS, LAHONTAN EROSION CONTROL REQUIREMENTS AND ANY SIMILAR REQUIREMENTS. WHILE SUBMITTER IS RESPONSIBLE FOR ARCHITECTURAL REQUIREMENTS, A FEW KEY REQUIREMENTS ARE HIGHLIGHTED BELOW. THESE NOTES ARE NOT EXHAUSTIVE, AND THE SUBMITTER IS STILL RESPONSIBLE FOR ANY ARCHITECTURAL ISSUES NOT ADDRESSED ON THESE PLANS.

ADDITIONAL ARCHITECTURAL AND SITE SPECIFIC REQUIREMENTS: IF A PROPOSED OUTBUILDING IS WITHIN 5' OF A PROPERTY LINE, ADDITIONAL FIRE PROTECTION REQUIREMENTS WILL NEED TO BE ADDRESSED. THESE REQUIREMENTS ARE BEYOND THE SCOPE OF THESE PLANS AND NEED TO BE ADDRESSED BY THE SUBMITTER.

THERE IS A HIGH LIKELIHOOD THAT THESE STRUCTURES WILL NEED TO COMPLY WITH CALIFORNIA WILDLAND URBAN INTERFACE REQUIREMENTS AND OTHER REQUIREMENTS FOR FIRE RESISTIVE CONSTRUCTION. THESE REQUIREMENTS ARE DEFINED IN C.B.C. CHAPTER 7A AND C.R.C. SECTION R327. THERE ARE POSSIBLE EXCEPTIONS FOR OUTBUILDINGS THAT MAY APPLY. THE SUBMITTER IS ULTIMATELY RESPONSIBLE FOR SELECTING MATERIALS AND METHODS THAT MEET THESE REQUIREMENTS, OR SHOWING THAT THIS STRUCTURE IS EXEMPT UNDER ONE OF THE LISTED EXCEPTIONS.

IF THE OUTBUILDING IS TO HAVE A CEILING UNDER THE TRUSS OR COLLAR TIES, FORMING AN ATTIC, THE FOLLOWING ATTIC REQUIREMENTS SHALL BE MET. THE ATTIC MUST HAVE A NET VENTILATION OF 1 SQUARE FOOT PER 150 SQUARE FOOT OF AREA. IF THE ATTIC AREA EXCEEDS 30 SQUARE FEET AND HAS A CLEAR HEIGHT OF OVER 30', AN OPENING OF 20'x30' SHALL BE PROVIDED. 30' MINIMUM CLEAR HEADROOM SHALL BE PROVIDED AT OR ABOVE THE ACCESS OPENING.

ACCESSORY STRUCTURES PLACED ADJACENT TO DESCENDING SLOPES STEEPER THAN 1:3 SHALL BE SET BACK FROM THE SLOPE A DISTANCE EQUAL TO THE HEIGHT OF THE SLOPE DIVIDED BY 3, BUT NOT TO EXCEED 40'. IF THESE REQUIREMENTS CANNOT BE MET, AN ENGINEERED SOLUTION MAY NEED TO BE PROVIDED.

ACCESSORY STRUCTURES PLACED ADJACENT TO ASCENDING SLOPES STEEPER THAN 1:3 SHALL BE SET BACK FROM THE SLOPE A DISTANCE EQUAL TO THE HEIGHT OF THE SLOPE DIVIDED BY 2, BUT NOT TO EXCEED 15'. IF THESE REQUIREMENTS CANNOT BE MET, AN ENGINEERED SOLUTION MAY NEED TO BE PROVIDED.

ACCESSORY STRUCTURES WITH ELECTRICAL SERVICE IS BEYOND THE SCOPE OF THESE PLANS. WHERE ELECTRICAL SERVICE IS REQUESTED, PLANS FOR OUTLET AND LIGHTING LOCATIONS, AND LIGHTING SHALL BE SUBMITTED WITH THE PERMITS APPLICATION. THE ELECTRICAL PLANS SHALL INDICATE SIZE OF THE ELECTRICAL SERVICE PANEL AND THE MAIN SOURCE OF THE POWER. REQUIRED UPGRADES TO HAZARD DETECTORS

IN EXISTING RESIDENCES WHERE THE COST OF ALTERATIONS, REPAIRS OR ADDITIONS (INCLUDING OUTBUILDINGS/ACCESSORY STRUCTURES) EXCEEDS \$1,000 SMOKE DETECTORS MUST BE BROUGHT UP TO CODE AND CARBON MONOXIDE DETECTORS MUST BE INSTALLED.

INSTALL SMOKE DETECTORS AS REQUIRED BY SECTION 314 OF THE 2010 C.R.C. BATTERY OPERATED NON-INTERCONNECTED, SMOKE DETECTORS ARE PERMITTED IN PORTIONS OF THE RESIDENCE WHERE WALLS ARE NOT BEING FRAMED OR REFRAMED (AS SHOULD BE THE CASE FOR A DECK ADDITION). SMOKE DETECTORS MUST BE PROVIDED FOR THE ENTIRE RESIDENCE, AT CENTRAL LOCATIONS OUTSIDE SLEEPING AREAS AND ONE PER SLEEPING ROOM. THERE MUST ALSO BE AT LEAST ONE SMOKE DETECTOR ON EVERY LEVEL REGARDLESS OF WHETHER THERE ARE SLEEPING ROOMS ON THAT LEVEL. EXISTING SMOKE DETECTORS MUST MEET THE STANDARDS SPELLED OUT IN THE C.R.C. OR MUST BE UPGRADED.

INSTALL CARBON MONOXIDE DETECTORS AS REQUIRED BY SECTION R315 OF THE 2010 C.R.C. (REQUIRED IF THE RESIDENCE HAS ANY FUEL BURNING APPLIANCES OR AN ATTACHED GARAGE) BATTERY OPERATED NON-INTERCONNECTED, CARBON MONOXIDE DETECTORS ARE PERMITTED IN PORTIONS OF THE RESIDENCE WHERE WALLS ARE NOT BEING FRAMED OR REFRAMED (AS SHOULD BE THE CASE FOR A DECK ADDITION). ONE CARBON MONOXIDE DETECTOR IS REQUIRED PER UNIT AT A CENTRAL LOCATION NEAR SLEEPING ROOMS, AND ONE IS REQUIRED ON EVERY LEVEL, REGARDLESS WHETHER THERE ARE SLEEPING ROOMS ON THAT LEVEL.

NOTES ABOUT THESE PLANS: LAYOUTS ARE SHOWN TO ILLUSTRATE POTENTIAL SITUATIONS, PRIMARILY OPENINGS NEAR THE CENTER OF WALLS, OPENINGS NEAR THE EDGES OF 1 WALL OR OPENINGS NEAR EDGES OF 2 WALLS. ALL OF THESE OPENINGS ARE OPTIONAL, AND AN OUTBUILDING CAN HAVE AS LITTLE AS ONE DOOR FOR AN OPENING.

OPENINGS CENTERED IN WALLS, SHOWN WITH ST6224 STRAPS AT THE CORNERS CAN ONLY BE WINDOWS. OPENINGS NEAR EDGES OF WALLS CAN BE WINDOWS OR DOORS. WITHIN A SPACE DESIGNATED FOR WINDOWS, THE OPENING CAN CONSIST OF ONE, OR MULTIPLE OPENINGS.

FOR PURPOSES OF THESE PLANS, THE WALL WITH THE MAIN DOOR SHALL BE CONSIDERED THE FRONT, THE WALL OPPOSITE THE MAIN DOOR SHALL BE CONSIDERED THE BACK, AND THE OTHER TWO WALLS SHALL BE CONSIDERED THE SIDE WALLS. NOTE THAT MORE THAN ONE WALL CAN HAVE A LARGE DOOR, AND IF SO, MUST MEET THE REQUIREMENTS SPELLED OUT IN THESE PLANS FOR THE FRONT WALL.

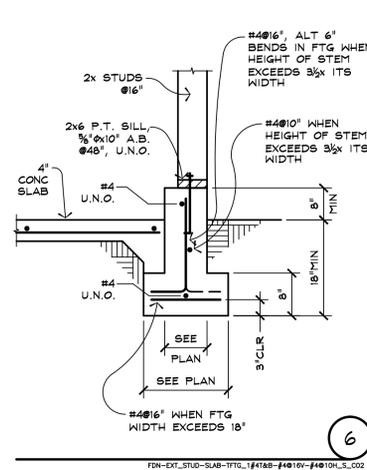
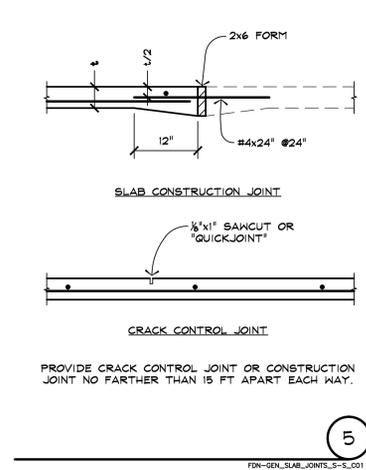
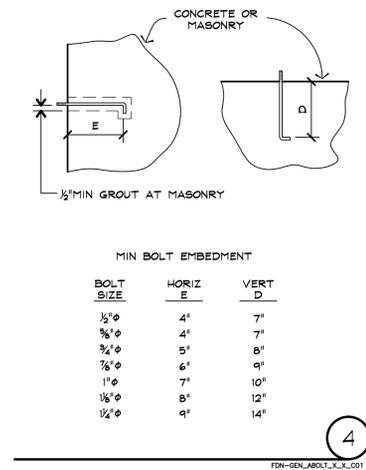
PLANS ASSUME GABLE ROOFS. EAVE WALL LINES ARE THE WALLS THAT ARE BELOW THE BOTTOM OF THE SLOPE OF THE ROOF (THE EAVE). RAKE WALLS ARE WALLS THAT ARE AT THE ENDS OF THE GABLES, (ALSO SOMETIMES REFERRED TO AS GABLE END WALLS). ALTERNATIVELY, A TRUSS HIP ROOF CAN BE USED (DESIGNED BY A TRUSS MANUFACTURER). IN THIS CASE CONSIDER ALL WALLS EAVE WALLS.

PRE-MANUFACTURED TRUSSES ARE RECOMMENDED, AND SHOULD USE DETAILS 14/53, 16/53, AND 19/53. HOWEVER, RAFTERS AND COLLAR TIES ARE ALLOWED FOR BUILDINGS UP TO 24' WIDE, AND USE DETAILS 20/53 AND 21/53. NOTE THAT RAKE WALLS ARE TO BE BALLOON FRAMED TO BOTTOM OF RAFTERS. BUILDINGS 24'-30' MUST USE PRE-MANUFACTURED ROOF TRUSSES.

THE RAKE WALLS ARE SHOWN AS THE FRONT AND BACK WALLS. HOWEVER THE ROOF CAN BE TURNED 90 DEGREES, WITH THE RAKE WALLS AS THE SIDE WALLS. BE SURE AND USE EAVE HEADERS AT THE FRONT IN BACK IN THIS CASE. SIDE WALLS MUST MEET THE REQUIREMENTS FOR SHEAR AND HOLDDOWNS OF THE BACK WALL (AND THE BACK WALL CAN INSTEAD BE A SIDE WALL) FOR BUILDINGS WITH NO OPEN SIDES. FOR BUILDINGS WITH ONE OPEN SIDE, ALL THREE WALLS ARE TO BE TREATED AS BACK WALLS IN REGARDS TO SHEAR PANELING AND HOLDDOWNS.

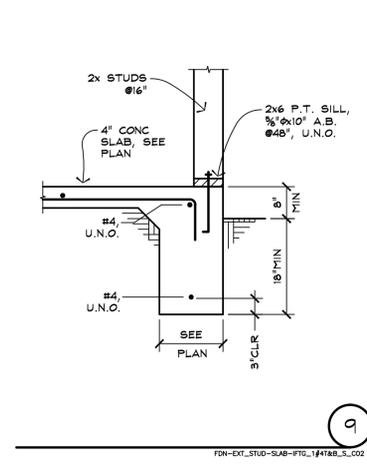
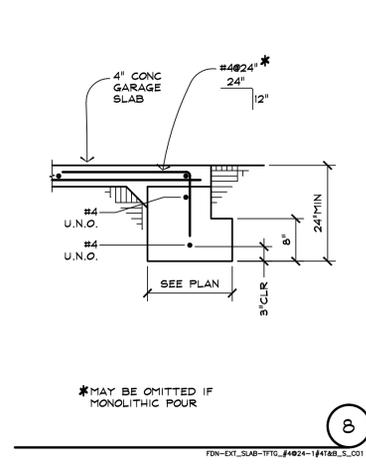
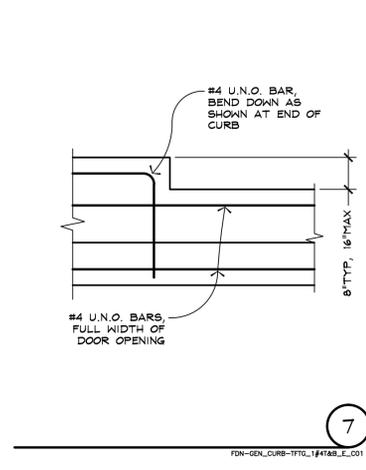
BUILDINGS WITH ONE OPEN SIDE ARE BUILDINGS WHERE ONE SIDE IS DOMINATED BY A DOOR, A SERIES OF DOORS, OR A COMBINATION OF DOORS AND WINDOWS. BUILDINGS WITH ONE OPEN SIDE ARE NOT ADDRESSED IN THESE PLANS BUT ARE ADDRESSED IN OTHER PLANS ON FILE WITH MONO COUNTY. BUILDINGS WITH AND OPEN SIDE CANNOT EXCEED 24'x24'.

THESE ARE INTENDED AS NON-HABITABLE OUTBUILDINGS. SHOULD ANY BUILDING BE IN THE FUTURE UPGRADED TO HABITABLE SPACE, THIS WILL REQUIRE A NEW BUILDING PERMIT FROM MONO COUNTY FOR THAT UPGRADE. NOTE THAT BUILDINGS WITH WITH SHEAR WALLS THAT HAVE A HEIGHT TO WIDTH ASPECT RATIO OF LESS THAN 2:1 CANNOT BE UPGRADED TO HABITABLE SPACE WITHOUT STRUCTURAL UPGRADES BEING MADE AT THE TIME OF THE USE CHANGE.

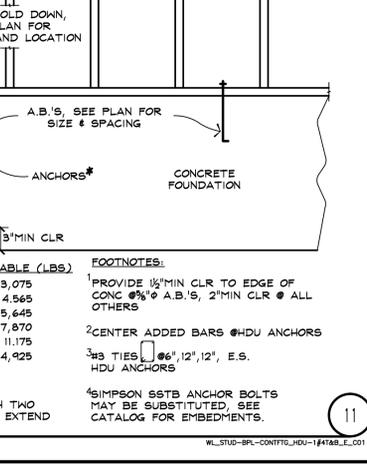
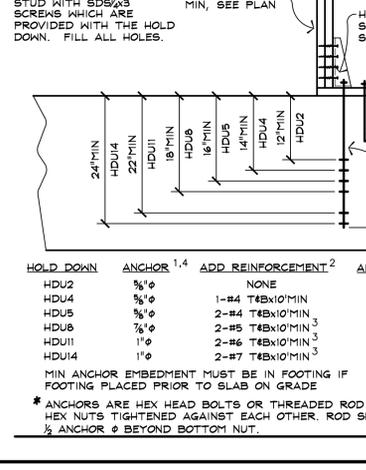
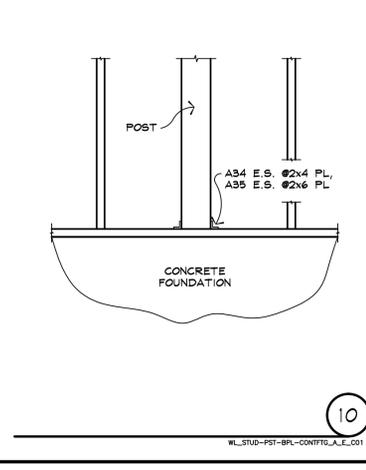


MIN BOLT EMBEDMENT:

BOLT SIZE	HORIZ E	VERT D
1/2"	4"	7"
3/8"	4"	7"
1/2"	5"	8"
3/4"	6"	9"
1"	7"	10"
1 1/8"	8"	12"
1 1/2"	9"	14"



*MAY BE OMITTED IF MONOLITHIC POUR



CONNECT HOLD DOWN TO STUD WITH SDSx3 SCREENS WHICH ARE PROVIDED WITH THE HOLD DOWN. FILL ALL HOLES.

MIN ANCHOR EMBEDMENT MUST BE IN FOOTING IF FOOTING PLACED PRIOR TO SLAB ON GRADE

ANCHORS ARE HEX HEAD BOLTS OR THREADED ROD WITH TWO HEX NUTS TIGHTENED AGAINST EACH OTHER. ROD SHALL EXTEND 1/2 ANCHOR Ø BEYOND BOTTOM NUT.

FOOTNOTES:

- PROVIDE 1/2" MIN CLR TO EDGE OF CONC 3/8" Ø A.B.S, 2" MIN CLR Ø ALL OTHERS
- CENTER ADDED BARS @ HDU ANCHORS
- 3/8 TIES @ 6", 12", 12", E.S. HDU ANCHORS
- SIMPSON S8TB ANCHOR BOLTS MAY BE SUBSTITUTED, SEE CATALOG FOR EMBEDMENTS.

EDGE NAILING (E.N.)

BOUNDARY NAILING (B.N.)

FIELD NAILING (F.N.) 12" Ø RF AND FLR

FACE GRAIN

STAGGER SHEETS

UN-SUPPORTED EDGES TO BE BLKD W/ FLAT 2x4, IF CALLED FOR ON PLAN, E.N. PLY TO BLKG

SEE PLAN FOR PLY TYPE AND NAILING

3/8" x 11'-0"

CON-DWPL-BLK-F-01

PROJECT SHALL COMPLY WITH THE 2010 CALIFORNIA CODES, WHICH ARE BASED UPON THE 2009 INTERNATIONAL BUILDING CODE, THE 2009 INTERNATIONAL RESIDENTIAL CODE, THE 2009 UNIFORM PLUMBING CODE, THE 2009 UNIFORM MECHANICAL CODE, THE 2008 NATIONAL ELECTRICAL CODE, AND THE 2008 TITLE 24 ENERGY STANDARDS.

SOIL BEARING ALLOWABLE ASSUMED TO BE 2000 PSF. ALL EXTERIOR FOOTINGS SHALL HAVE 18" MIN EMBEDMENT. MINIMUM FOOTING REINFORCEMENT IS 1-#4 AT TOP AND BOTTOM OF CONTINUOUS FOOTING.

ALL FOOTINGS SHALL ALSO BE EMBEDDED DEEP ENOUGH THAT A 5' MIN HORIZONTAL DISTANCE TO DATUM IS ATTAINED.

SEE 1 FOR PIPES UNDER FOOTINGS.

SEE 2 FOR TYPICAL REINFORCEMENT AT CORNERS OF FOOTINGS.

SEE 3 FOR LAPS AND BENDS IN REINFORCING STEEL

SEE 4 FOR EMBEDMENT OF ANCHOR BOLTS.

SEE 5 FOR JOINTS IN CONCRETE.

SILL ANCHOR BOLTS ARE 3/8"x10" @48" WITH 0.229" THK x 3" SQ PLATE WASHERS UNLESS NOTED OTHERWISE (SEE SHEAR PANEL SCHEDULE A FOR EXCEPTIONS).

HD, ST, ETC ARE SIMPSON STRONG-TIE HARDWARE. REFER TO SIMPSON CATALOG C-2009 FOR INSTALLATION INFORMATION. USE EXACT TYPE, SIZE, AND NUMBER OF FASTENERS SPECIFIED IN CATALOG.

HOLDDOWN ANCHORS SHALL BE SECURED IN PLACE PRIOR TO FOUNDATION INSPECTION.

SEE 23 FOR SPECIAL FOOTING REINFORCEMENT AT HOLDDOWNS

MINIMUM HOLDDOWN STUDS

HDU2	2-2x
HDU4	2-2x
HDU5	2-2x

10 TYPICAL ALL POSTS, U.N.O.

WHEN DOUBLE OR TRIPLE HEADERS ARE INDICATED IN THE HEADER SCHEDULE, SEE 24

ARE SHEAR PANELS, WHERE # IS THE SHEAR PANEL MARK AND L IS SHEAR PANEL LENGTH, SEE A

SHEAR PANELS EXTEND FROM CONCRETE TO ROOF SHEATHING, U.N.O.

SHEAR TRANSFER CONNECTIONS SHOWN IN DETAILS ARE MINIMUM. SEE A FOR SHEAR TRANSFER CONNECTIONS AT PLY SHEAR WALLS.

SHEAR PANEL SYMBOL INDICATES THAT ENTIRE LENGTH OF WALL IS SHEATHED WITH THAT SHEAR PANEL, NOT JUST THE SECTION OF WALL IMMEDIATELY IN FRONT OF THE SYMBOL.

WHERE THERE IS A REQUIREMENT FOR TWO HOLDDOWN POSTS FOR TWO WALLS AT A CORNER, THE CORNER CAN BE FRAMED FROM A SOLID MEMBER, WITH PLYWOOD FROM BOTH WALL PLANES TERMINATING ON THE CORNER, AND ONLY ONE HOLDDOWN IS REQUIRED

EXTERIOR WALLS ARE REQUIRED TO BE FRAMED WITH 2x4 STUDS @16", U.N.O., HOWEVER THEY CAN BE UPGRADED TO 2x6 STUDS @16", EITHER TO ACCOMMODATE LARGER HEADERS OR INSULATION

TOP PLATE SPLICES SHALL LAP 4'-0" MIN, 4-1/2 E.S. FOR WALLS UP TO 24', SEE 19 IF PLATES DO NOT LAP, USE ST6215.

TOP PLATE SPLICES SHALL LAP 4'-0" MIN, 6-1/2 E.S. FOR WALLS UP TO 24'-30', SEE 17 IF PLATES DO NOT LAP, USE ST6224.

NON-LOAD BEARING INTERIOR PARTITION WALLS MAY BE ADDED, SEE 22 AND 23 FOR ATTACHMENT

5/8", 6/8", ETC ARE 24f, DF-L GLULAM BEAMS, SPECIFY 24f-V4 PER 2010 C.B.C.

P-L ARE PARALLAM PSL BEAMS BY ILEVEL TRUS JOIST BY WEVERHAUSER, OR EQUIVALENT (ESR-1387)

IF ENGINEERED WOOD PRODUCTS ARE SUPPLIED BY A MANUFACTURER OTHER THAN BY ILEVEL TRUS JOIST BY WEVERHAUSER, THE SUBMITTER SHALL SUBMIT DOCUMENTATION SHOWING THAT THE PRODUCT IS OF EQUIVALENT STRUCTURAL PROPERTIES TO MONO COUNTY BUILDING DIVISION STAFF AND OBTAIN THEIR APPROVAL.

ARE REFERENCES TO MEMBER CALCULATIONS. SEE CALCULATIONS PACKAGE.

DETAILS ON ACCOMPANYING DETAIL SHEETS ARE DRAWN TO THE SCALE NOTED IN THE TITLE BLOCK OF THE SHEET, U.N.O. HOWEVER, THE SIZE OF EACH SCALED ELEMENT SHOWN ON THE DETAILS DOES NOT NECESSARILY REPRESENT THE SIZE OF THE MEMBERS CALLED OUT ON THE PLAN, OR EXISTING IN THE STRUCTURE.

PRE-FAB ROOF TRUSSES @24" UP TO 24' WIDE BLDGS, & @16" FOR 24'-30' WIDE BLDGS, ENGINEERED BY OTHERS FOR:

TOP CHORD SNOW LOAD,	40 PSF
TOP CHORD DEAD LOAD,	10 PSF
BOTTOM CHORD DEAD LOAD,	5 PSF
I.C.B.O. APPROVED FABRICATOR IS REQUIRED.	
STRESS INCREASE FOR DURATION IS NOT ALLOWED.	

SHOP DRAWINGS FOR THE ROOF TRUSSES SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OF THE TRUSSES. SUBMITTALS SHALL INCLUDE STRUCTURAL CALCULATIONS AND SHALL SHOW LAYOUT, INDIVIDUAL TRUSS DESIGN AND ALL OTHER ELEMENTS AS REQUIRED BY C.R.C. SECTION R0210. SUBMITTALS SHALL BE SIGNED BY THE CALIFORNIA REGISTERED ARCHITECT OR ENGINEER RESPONSIBLE FOR THEIR DESIGN.

SCHEDULE SHEAR PANELS

MARK	MATERIAL	EDGE NAILING	FIELD NAILING	2x SILL ANCHORS	3x SILL ANCHORS	STUDS & BLKG @ JOINTS	BOT PL CONN.	TOP PL CONN. AT FLOOR & ROOF	VALUE (LBS/FT)
1	3/8" (24/0) STR 1 PLY, 1 SIDE	8d @ 6"	8d @ 12"	3/8"x10" @ 48"	-	2x	16d @ 7"	A35 @16" OR LTP4 @20"	280
2	3/8" (24/0) STR 1 PLY, 1 SIDE	8d @ 4"	8d @ 12"	3/8"x10" @ 72"	3/8"x12" @ 42"	3x	16d @ 4"	A35 @12" OR LTP4 @18"	480
3	3/8" (24/0) STR 1 PLY, 1 SIDE	8d @ 3"	8d @ 12"	3/8"x10" @ 36"	3/8"x12" @ 33"	3x	16d @ 3"	A35 @9" OR LTP4 @14"	550

3/8" TYP PLYWOOD SIDING MAY BE SUBSTITUTED FOR 3/8" STR 1 PLY, BUT 10d NAILS SHOULD REPLACE 8d NAILS AT THE SAME SPACING.

SEE 15 FOR INSTALLATION OF SHEAR PANELS.

ALL PANEL EDGES BACKED WITH 2" NOMINAL OR WIDER FRAMING. PANELS INSTALLED EITHER HORIZONTALLY OR VERTICALLY OVER STUDS AT 16". SPACE NAILS AT 12" ON CENTER ALONG INTERMEDIATE FRAMING MEMBERS.

WHERE PANELS ARE APPLIED ON BOTH FACES OF A WALL AND NAIL SPACING IS LESS THAN 6" ON CENTER ON EITHER SIDE, PANEL JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS OR FRAMING SHALL BE 3" NOMINAL OR THICKER AND NAILS ON EACH SIDE SHALL BE STAGGERED.

IN SDC E ALL SILL ANCHOR BOLTS SHALL BE 3/8" MIN. EACH ANCHOR BOLT SHALL HAVE A MINIMUM OF 3"x3"x0.229" THICK PLATE WASHER.

IN SDC D AND E, WHERE ALLOWABLE SHEAR VALUES EXCEED 350 POUNDS PER FOOT, FOUNDATION SILL PLATES AND ALL FRAMING MEMBERS RECEIVING EDGE NAILING FROM BUTTING PANELS SHALL NOT BE LESS THAN A SINGLE 3-INCH NOMINAL MEMBER AND FOUNDATION SILL PLATES SHALL NOT BE LESS THAN A SINGLE 3-INCH NOMINAL MEMBER. IN SHEAR WALLS WHERE TOTAL WALL DESIGN SHEAR DOES NOT EXCEED 400 POUNDS PER FOOT A SINGLE 2-INCH NOMINAL SILL PLATE MAY BE USED, PROVIDED ANCHOR BOLTS ARE DESIGNED FOR A LOAD CAPACITY OF 50 PERCENT OR LESS OF THE ALLOWABLE CAPACITY AND BOLTS HAVE A MINIMUM OF 3"x3"x0.229" THICK PLATE WASHERS. PLYWOOD JOINT AND SILL PLATE NAILING SHALL BE STAGGERED IN ALL CASES.

SQUARE WASHERS ARE PERMITTED TO HAVE A DIAGONALLY SLOTTED HOLE NOT MORE THAN 3/4" LARGER THAN THE BOLT DIAMETER AND SLOT LENGTH NOT TO EXCEED 1 1/2". IF SLOTTED, A STANDARD CUT WASHER IS REQUIRED BETWEEN THE PLATE WASHER AND THE NUT.

SPACINGS FOR TOP AND BOTTOM PLATE CONNECTIONS AND SILL ANCHORS ARE MAXIMUMS. CONTRACTOR MAY USE CLOSER, MORE CONVENIENT SPACINGS.

WHERE A35 TOP PLATE CONNECTIONS ARE CLOSER THAN 6" ON CENTER, A35'S SHOULD BE PLACED ON ONE SIDE AND LTP4'S ON THE OTHER SIDE OF THE BLOCKING OR RIM AND SHOULD BE STAGGERED.

REVISIONS

NO.	DESCRIPTION	DATE

