

GENERAL NOTES

- ALL CONSTRUCTION AND WORKMANSHIP SHALL CONFORM TO THE 2007 CALIFORNIA BUILDING CODE (2007 CBC).
- THESE NOTES SHALL BE USED IN CONJUNCTION w/ THE PLANS AND ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- CONTRACTOR MUST CHECK DIMENSIONS, FRAMING CONDITIONS, AND SITE CONDITIONS BEFORE STARTING WORK. ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES OR POSSIBLE DEFICIENCIES.
- CONDITIONS NOT SPECIFICALLY DETAILED SHALL BE CONSTRUCTED AS SPECIFIED TYPICAL DETAILS FOR THE RESPECTIVE MATERIALS.
- THE DRAWINGS & SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. ALL BRACING, TEMPORARY SUPPORTS, SHORING, etc. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR OBSERVATION VISITS TO THE JOB SITE BY THE ARCHITECT & THE ENGINEER DO NOT INCLUDE INSPECTION OF CONSTRUCTION PROCEDURES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS AND FOR SAFETY CONDITIONS AT THE WORK SITE. THESE VISITS SHALL NOT BE CONSTRUED AS CONTINUOUS AND DETAILED INSPECTIONS.
- DESIGN, MATERIALS EQUIPMENTS, AND PRODUCTS OTHER THAN THOSE DESCRIBED BELOW OR INDICATED ON THE DRAWINGS MAY BE CONSIDERED FOR USE, PROVIDED PRIOR TO APPROVAL IS OBTAINED THE OWNER, THE ARCHITECT, THE ENGINEER, AND THE APPLICABLE GOVERNING CODE AUTHORITY.
- ALL CONDITIONS NOTED AS EXISTING ARE BASED ON THE BEST INFORMATION CURRENTLY AVAILABLE AT THE TIME OF PREPARATION OF THESE DRAWING. THE CONTRACTOR IS TO VERIFY ALL CONDITIONS BEFORE STARTING WORK. SHOULD CONDITIONS ARISE WHICH ARE DIFFERENT FROM THOSE SHOWN ON THE DRAWINGS, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY AND ADDITIONAL DRAWINGS BASED ON MORE ACCURATE INFORMATION WILL BE PREPARED.

CONCRETE

- CONCRETE STRENGTH SHALL BE AS FOLLOWS :
 - STRUCTURAL SLAB ----- $f_c = 3,000$ psi @ 28 DAYS w / SPECIAL INSPECTION
 - GRADE BEAMS ----- $f_c = 3,000$ psi @ 28 DAYS w / SPECIAL INSPECTION
 - CAST-IN-PLACE PILES ----- $f_c = 4,000$ psi @ 28 DAYS w / SPECIAL INSPECTION
 - OTHERS ----- $f_c = 2,500$ psi @ 28 DAYS w / NO SPECIAL INSPECTION
- AGGREGATES SHALL BE NATURAL SAND and ROCK CONFORM to ASTM C33.
- CEMENT SHALL BE PORTLAND CEMENT CONFORMING to ASTM C-150, TYPE I or II, LOW ALKALI, or AS REQUIRED to SATISFY SITE SOIL CONDITIONS as DETERMINED by THE PROJECT SOILS ENGINEER.
- PIPES MAY PASS THROUGH STRUCTURAL CONCRETE IN SLEEVES, but SHALL NOT BE EMBEDDED THEREIN. PIPES or DUCTS EXCEEDING ONE-THIRD THE SLAB or WALL THICKNESS SHALL NOT BE PLACED IN THE STRUCTURAL CONCRETE unless SPECIFICALLY DETAILED.
- CONTINUOUS INSPECTION BY A DEPUTY INSPECTOR IS REQUIRED for ALL CONCRETE DESIGNED w/ f_c GREATER THAN 2,500 psi.

REINFORCING STEEL

- REINFORCING STEEL SHALL CONFORM TO A.S.T.M. A-615, GRADE 60.
- THE FOLLOWING MINIMUM CLEAR DISTANCES BETWEEN REINFORCING STEEL AND FACE OF CONCRETE SHALL BE MAINTAINED U.N.O. ON PLAN :
 - SLABS ON GRADE ----- CENTER OF SLAB 2"
 - CONCRETE BELOW GRADE, FORMED ----- 2"
 - CONCRETE BELOW GRADE, UNFORMED (POURED AGAINST EARTH) ----- 3"
 - CONCRETE EXPOSED TO WEATHER ----- 2"
 - WALLS ----- 1"
 - COLUMNS AND BEAMS TO MAIN BARS ----- 2"

WOOD FRAMING

- WOOD FRAMING MEMBERS : GRADE AND SPECIES FOR ALL LUMBER MUST BE GRADE MARKED.
- ALL LUMBER - DOUGLAS FIR, EXCEPT as NOTED.
- JOISTS, RAFTERS, AND BEAMS - NO.2 GRADE, EXCEPT as NOTED \$ MUST BE GRADE MARKED.
- MISC. FRAMING (STUDS, FURRING, ETC.) - "STANDARD" GRADE D.F.
- 2x BLOCKING BRIDGING @ 8'-0" O.C for ROOF RAFTER.
- 2" SOLID BLOCK @ EACH SUPPORT.
- PLYWOOD DIAPHRAGMS : PRODUCT STANDARD PS 1-95, DOUGLAS FIR-LARCH, STRUCTURAL-1.
- LAG BOLT: PROVIDE LEAD HOLE 40%-70% OF THREADED SHANK DIA. ANF FULL DIA. FOR SMOOTH SHANK PORTION.
- SOLID BLOCKING SHALL BE PROVIDE AT ALL HORIZONTAL JOINTS OCCURRING IN BRACED WALL PANELS. (2320.11.3)

NAILING SCHEDULE

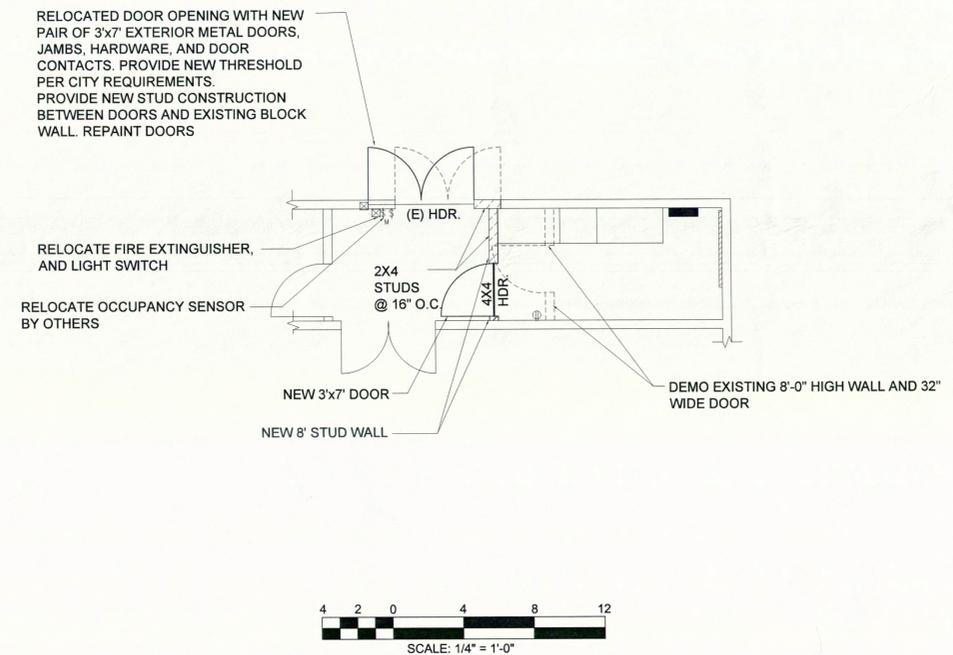
TABLE 23-11-B-1--NAILING SCHEDULE

CONNECTION	NAILING ¹
1. JOIST TO SILL OR GIRDER, TOENAIL	(3)-8d
2. BRIDGING TO JST., TOENAIL EA. END	(2)-8d
3. 1"x6" (25 MM X 152 MM) SUBFLOOR OR LESS TO EA. JST., FACE NAIL	(2)-8d
4. WIDER THAN 1"x6" (25 MM X 152 MM) SUBFLOOR TO EA. JST., FACE NAIL	(3)-8d
5. 2" (51MM) SUBFLOOR TO JST. OR GIRDER, BLIND & FACE NAIL	(2)-16d
6. SOLE PLATE TO JST. OR BLK'G, TYPICAL FACE NAIL	16d @ 16"(406mm) O.C
6. SOLE PLATE TO JST. OR BLK'G, AT BRACED WALL PANELS	(3)-16d PER 16"(406mm) O.C
7. TOP PLATE TO STUD, END NAIL	(2)-16d
8. STUD TO SOLE PLATE	(4)-8d TOE NAIL OR (2)-16d END NAIL
9. DOUBLE STUDS, FACE NAIL	16d @ 24"(610mm) O.C
10. DOUBLE TOP PLATES, TYPICAL FACE NAIL	16d @ 16"(406mm) O.C
10. DOUBLE TOP PLATE, LAP SPLICE	OR (8)-16d
11. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE, TOENAIL	(3)-8d
12. RIM JOIST TO TOP PLATE, TOENAIL	8d @ 6"(152mm) O.C
13. CEILING PLATES, LAPS AND INTERSECTIONS, FACE NAIL	(2)-16d
14. CONTINUOUS HEADER TWO PIECES	16d @ 16"(406mm) O.C ALONG EACH EDGE
15. CEILING JOISTS TO PLATE TOENAIL	(3)-8d
16. CONTINUOUS HEADER TO STUD, TOENAIL	(4)-8d
17. CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	(3)-16d
18. CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	(3)-16d
19. RAFTER TO PLATE, TOENAIL	(3)-8d
20. 1" (25MM) BRACE TO EACH STUD AND PLATE, FACE NAIL	(2)-8d
21. 1" X 8" (25 MM X 203 MM) SHEATHING OR LESS TO EACH BEARING FACE NAIL	(2)-8d
22. WIDER THAN 1" X 8" (25 MM X 203 MM) SHEATHING TO EACH BEARING, FACE NAIL	(3)-8d
23. BUILT-UP CORNER STUDS	16d @ 24"(610mm) O.C
24. BUILT-UP GIRDER AND BEAMS	20d @ 32"(813mm) O.C @ TOP & BOTT. AND STAGGERED (2)-20d @ ENDS & @ EACH SPLICE
25. 2" (51 MM) PLANKS	(2)-16d @ EACH BEARING
26. WOOD STRUCTURAL PANELS AND PARTICLE BOARD: SUBFLOOR AND WALL SHEATHING (TO FRAMING):	
1/2" (12.7 MM) AND LESS	6d ³
19"/32" 3/4" (15 MM-19 MM)	8d ⁴ or 6d ⁵
7/8"-1" (22 MM-25MM)	8d ³
1 1/8"-1 1/4" (29 MM-32 MM)	10d ⁴ or 8d ⁵
COMBINATION SUBFLOOR-UNDERLAYMENT(TO FRAMING):	
3/4" (19 MM) AND LESS	6d ⁵
7/8" -1" (22 MM-25 MM)	8d ⁵
1 1/8"- 1 1/4" (29 MM-32 MM)	10d ⁴ or 8d ⁵
27. PANEL SIDING (TO FRAMING)	
1/2" (12.7 MM) OR LESS	6d ⁵
5/8" (16 MM)	8d ⁵
28. FIBERBOARD SHEATHING:	
1/2" (12.7 MM)	NO.11 ga. ⁸ 6d ⁴
	NO.16 ga. ⁹ NO.11 ga. ⁹
	8d ⁴
25/32" (20 MM)	NO.16 ga. ⁹
29. INTERIOR PANELING	
1/4" (6.4 MM)	4d ¹⁰
3/8" (9.5 MM)	6d ¹¹

- COMMON OR BOX NAILS MAY BE USED EXCEPT WHERE OTHERWISE STATED.
- NAILS SPACED AT 6 INCHES(152 MM) ON CENTER AT EDGES, 12 INCHES (305 MM) AT INTERMEDIATE SUPPORTS EXCEPT 6 INCHES (152 MM) AT ALL SUPPORTS WHERE SPANS ARE 48 INCHES (1219 MM) OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTIONS 2315.3.3 AND 2315.4. NAILS FOR WALL SHEATHING MAY BE COMMON, BOX OR CASING.
- COMMON OR DEFORMED SHANK.
- COMMON.
- DEFORMED SHANK.
- CORROSION-RESISTANT SIDING OR CASING NAILS CONFORMING TO THE REQUIREMENTS OF SECTION 2304.3.
- FASTENERS SPACED 3 INCHES (76 MM) ON CENTER AT EXTERIOR EDGES AND 6 INCHES (152 MM) ON CENTER AT INTERMEDIATE SUPPORTS.
- CORROSION-RESISTANT ROOFING NAILS WITH 7/16 INCH-DIAMETER (11 MM) HEAD AND 1 1/2 INCH (38 MM) LENGTH FOR 1/2 INCH SHEATHING AND 1 3/4 INCH (12.7 MM) SHEATHING AND 1 3/4-INCH (44 MM) LENGTH FOR 25/32 -INCH (20 MM) SHEATHING COFORMING TO THE REQUIREMENTS OF SECTION 2304.3.
- CORROSION-RESISTANT STAPLES WITH NOMINAL 7/16 - INCH (11 MM) CROWN AND 1 1/8 - INCH (29MM) LENGTH FOR 1/2 INCH SHEATHING AND 1 1/2 INCH (12.7 MM) SHEATHING AND 1 1/2-INCH (38 MM) LENGTH FOR 25/32 INCH (20 MM) SHEATHING CONFORMING TO THE REQUIREMENTS OF SECTION 2304.3.
- PANEL SUPPORTS AT 16 INCHES (406 MM) 20 INCHES (508 MM) IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED. CASING OR FINISH NAILS SPACED 6 INCHES (152 MM) ON PANEL EDGES, 12 INCHES (305MM) AT INTERMEDIATE SUPPORTS.
- PANEL SUPPORTS AT 24 INCHES (610 MM) . CASING OR FINISH NAILS SPACED 6 INCHES (152 MM) ON PANEL EDGES, 12 INCHES (305 MM) AT INTERMEDIATE SUPPORTS.

SHEET INDEX

- S-1 GENERAL NOTES AND ELECTRICAL ROOM FRAMING PLAN
- S-2 GENERATOR AND PROPANE TANK SLAB PLAN



PROJECT NO. 20090028.00
 SCALE 1/4" = 1'
 DATE 09-14-09
 DESIGNED BY FS
 DRAWN BY FS
 CHECKED BY JMC
 SHEET NO. S-1
 1 OF 2 SHEETS

REVISIONS:

NO. BY DATE

PROFESSIONAL ENGINEER
 JOHN M. CRIBARIAN
 4111 SAN PABLO AVENUE, SUITE 201
 SAN PABLO, CA 94703
 P: 310.341.6550
 F: 310.320.9871
 www.jmc.com

RPV GENERATOR CITY OF RANCHO PALOS VERDES 30940 HAWTHORNE BLVD, RANCHO PALOS VERDES, CA
 GENERAL NOTES AND ELECTRICAL ROOM FRAMING PLAN