GENERAL NOTES

ALL WORK SHALL BE IN COMPLIANCE WITH ALL GOVERNING CODES AND ORDINANCES, INCLUDING THE UNIFORM BUILDING CODE, NATIONAL ELECTRIC CODE, UNIFORM PLUMBING CODE, OSHA, CITY, COUNTY, STATE, AND NATIONAL STANDARDS AND SAFETY CODES. NOTHING IN THESE DRAWINGS SHALL BE CONSTRUED TO PERMIT INSTALLATION IN VIOLATION OF THESE CODES OR RESTRICTIONS.

THESE NOTES ARE PROVIDED TO SHOW BASIC AREAS OF RESPONSIBILITY, AND ANY ITEMS NOT SPECIFICALLY INCLUDED BUT NECESSARY FOR PROPER COMPLETION OF THE WORK SHALL BE INCLUDED AS A PART OF THE WORK.

WHERE DETAILS ARE NOT SHOWN FOR ANY PART OF THE WORK, THE CONSTRUCTION SHALL BE SIMILAR TO OTHER COMPARABLE WORK.

WORKMANSHIP THROUGHOUT SHALL BE OF THE BEST QUALITY OF THE TRADE INVOLVED. EACH SUB-CONTRACTOR IS CONSIDERED A SPECIALIST IN HIS RESPECTIVE FIELD AND SHALL NOTIFY THE GENERAL CONTRACTOR IN WRITING OF ANY CONDITIONS THAT CANNOT BE FULLY GUARANTEED PRIOR TO SUBMITTING HIS BID. ANY BID SHALL BE CONSIDERED ALL LABOR, EQUIPMENT AND MATERIAL NECESSARY FOR THESE WORK PROPERLY.

ALL TRADES SHALL AT ALL TIMES KEEP THE PROJECT FREE FROM WASTE MATERIALS AND SHALL LEAVE THE JOB BROOM CLEAN UPON THE COMPLETION OF THEIR WORK.

ALL GRADING TO CONFORM TO LOCAL ORDINANCE, APPENDIX J OF THE CBC, AND STANDARDS PERTAINING THERETO.

ON-SITE DIMENSIONS AND CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR OR SUB-CONTRACTOR. NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALE.

ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS ARE TO BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE DESIGNER, OWNER, AND CONTRACTOR BOTH VERBALLY AND IN WRITING.

CUTTING AND NOTCHING IN EXTERIOR WALL AND BEARING PARTITION, ANY WOOD STUD, JOIST OR RAFTER NOTCHED TO A DEPTH OF NOT EXCEEDING 25% OF ITS WIDTH. CUTTING OR NOTCHING OF NOTCHED STUDS IN EXCESS OF 40% OF THEIR WIDTH ON ANY ONE STUD IS PERMITTED IN NON-BEARING PARTITIONS SUPPORTING NO LOADS OTHER THAN THE WEIGHT OF THE PARTITION.

BORED HOLES. A HOLE NOT GREATER IN DIAMETER THAN 40% OF THE STUD WIDTH MAY BE BORED IN ANY WOOD STUD. BORED HOLES NOT GREATER THAN 60% OF THE WIDTH OF THE STUD ARE PERMITTED IN NON-BEARING PARTITIONS OR ANY WALL IN WHERE EACH BORED STUD IS DOUBLED, PROVIDED NOT MORE THAN 2 SUCH SUCCESSIVE DOUBLE STUDS SHALL BE BORED UNLESS SPACED NOT LESS THAN 4 FEET ON CENTER. THE EDGE OF ANY BORED HOLE SHALL NOT BE NEARER THAN 2" TO THE EDGE OF THE STUD. BORED HOLES SHALL NOT BE LOCATED AT THE SAME SECTIONS OF STUD AS A CUT OR NOTCH.

ALL PLYWOOD "SIDING" EXPOSED TO THE WEATHER IS TO BE EXTERIOR GLUE, EXTERIOR GRADE.

CONTRACTOR TO LAYOUT ALL BUILDING LINES, LEVELS, AND GRADES. IF BUILDING OR GRADE LINES DO NOT CONFORM TO DRAWINGS THE DESIGNER AND/OR BUILDING DIVISION IS TO BE CONTACTED.

SANITARY FACILITIES ARE TO BE PROVIDED ON THE JOB FOR CONTRACTORS, SUB-CONTRACTORS, AND BUILDING DEPARTMENT PERSONNEL.

ALL WOOD SUFFITS OR ENCLOSED USEABLE SPACES UNDER STAIRS SHALL BE PROTECTED WITH 1 HOUR FIRE-RATED MATERIALS ON THE ENCLOSED SIDE. PROVIDE MINIMUM 5/8" TYPE "X" GYPSUM BOARD.

WALLS BETWEEN DWELLING AND ATTACHED GARAGES SHALL HAVE 5/8" TYPE "X" GYPSUM BOARD OR 3/4" PLASTER AS FINISH ON THE GARAGE SIDE WITH A 1 3/8" SOLID CORE WOOD SELF-CLOSING DOOR. NO DOOR MAY BE LOCATED BETWEEN A GARAGE AND A ROOM USED FOR SLEEPING PURPOSES.

IF SEPARATION BETWEEN HOUSE AND GARAGE IS A FLOOR AND CEILING ASSEMBLY, THE CEILING AND ALL SUPPORTING ELEMENTS AND POSTS MUST BE FIRE PROTECTED AND JACKETED FOR PROTECTION EQUIVALENT TO 5/8" TYPE "X".

ALL UNDERFLOOR AREAS ARE TO BE ACCESSIBLE THROUGH AN OPENING OF NO LESS THAN 18" WIDE BY 18" HIGH, ENTERED AND COVERED, AND UNOBSTRUCTED BY PIPES, DUCTS, AND SIMILAR CONSTRUCTION.

ALL WELDING SHALL BE PERFORMED IN A SHOP OF AN APPROVED/CERTIFIED FABRICATOR IN ACCORDANCE WITH CBC, SECTION 1704. WHERE SPECIAL INSPECTION IS REQUIRED, A SPECIAL INSPECTOR TO INSPECT THE CERTIFIED WELDER'S WORK DURING FABRICATION OF ASSEMBLY IN FIELD.

CODES AND STANDARDS

THESE GENERAL NOTES AND ACCOMPANYING PLANS ARE COMPLIMENTARY AND ALL CONSTRUCTION IS TO BE AS INDICATED HEREON OR DRAWINGS.

ALL WORK SHALL BE DONE IN STRICT COMPLIANCE WITH:
- A. STATE AND LOCAL CODES
- B. UNIFORM BUILDING CODES

THE BUILDER SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON DRAWINGS AND IN THE FIELD AND SHALL BE RESPONSIBLE FOR ANY NECESSARY ADJUSTMENTS AND/OR CORRECTIONS.

THE BUILDER IS TO PROVIDE ALL NECESSARY TEMPORARY SUPPORT FOR WALLS AND FLOORS PRIOR TO COMPLETION OF VERTICAL AND LATERAL BRACING.

CONTRACTORS SHALL VERIFY ALL GRADES, CONDITIONS, AND DIMENSIONS PRIOR TO COMMENCING WORK.

IN ACCORDANCE WITH THE CALIFORNIA ENERGY CODE, TITLE 20, THE FOLLOWING INFORMATION SHALL BE INCORPORATED INTO THE BUILDING PLANS SUBMITTED TO PLAN CHECK:

SECTION (120)

1403(d) (1) ALL SWINGING DOORS AND WINDOWS EXPOSED TO AMBIENT CONDITIONS OR TO UNCONDITIONED AREAS, SUCH AS GARAGES, SHALL BE FULLY WEATHER-STRIPPED, GASKET OR OTHERWISE TREATED TO LIMIT INFILTRATION.

1403(d) (1) ALL MANUFACTURED WINDOWS AND SLIDING GLASS DOORS SHALL MEET THE AIR INFILTRATION STANDARDS OF THE A.N.S.I. AMERICAN STANDARDS INSTITUTE WITH ASTM E282–73 AND SHALL BE CERTIFIED AND LABELED.

1403(d) (2) ALL FAN SYSTEMS EXHAUSTING AIR FROM THE BUILDING ENVELOPE TO THE OUTSIDE SHALL BE PROVIDED WITH BACKDRAFT DAMPERS OF AUTOMATIC DAMPERS.

1404(d) (1) ALL TRANSVERSE DUCT, PLENUM, AND FILLED JOINTS SHALL BE SEALED WITH PRESSURE SENSITIVE TAPE OR MASTIC TO PREVENT AIR LOSS.

1401(d) (2) INSULATION OF ALL DUCTS SHALL CONFORM TO THE PROVISIONS OF SECTION 1005 OF THE UNIFORM MECHANICAL CODE, 1982 EDITION.

1406(a) INDICATE THE MAKE AND MODEL NUMBER OF THE HOT WATER HEATER ON THE PLANS. THE UNIT MUST BE CERTIFIED BY THE CALIFORNIA ENERGY COMMISSION.

1406(a) (1) ALL TRANSVERSE DUCT, PLENUM, AND FILLED JOINTS SHALL BE SEALED WITH PRESSURE SENSITIVE TAPE OR MASTIC TO PREVENT AIR LOSS.

1406(a) INDICATE THE MAKE AND MODEL NUMBER OF THE HOT WATER HEATER ON THE PLANS. THE UNIT MUST BE CERTIFIED BY THE CALIFORNIA ENERGY COMMISSION. (AMERICAN APPLIANCE G.V.F. 433–75).

1406(e) RECIRCULATING HOT WATER PIPING IN ATTICS, GARAGES, CRAWL SPACES, OR UNCONDITIONED SPACES OTHER THAN BETWEEN FLOORS OR IN INTERIOR WALLS SHALL BE INSULATED TO PROVIDE A MAXIMUM LOSS OF NOT MORE THAN 5087/L/HR. PER LINEAL FOOT FOR LARGER SIZES.

1406(f) SHOWER HEADS, LAVATORY, AND SINK FAUCETS MUST BE OF A MAKE AND MODEL NUMBER CERTIFIED BY THE CALIFORNIA ENERGY COMMISSION.

OCCUPANCY

BATHROOMS, WATER CLOSET COMPARTMENTS, LAUNDRY ROOMS, ETC., SHALL BE PROVIDED WITH NATURAL VENTILATION BY MEANS OF OPENABLE EXTERIOR OPENINGS WITH AN AREA NOT LESS THAN 1/20 OF THE FLOOR AREA WITH A MINIMUM OF 1 1/2 SQ. FT., OR MECHANICAL VENTILATION SYSTEMS MUST SUPPLY FIVE CHANGES PER HOUR IN BATHROOMS AND LAUNDRY ROOMS, TWO CHANGES PER HOUR IN OTHER HABITABLE ROOMS.

HABITABLE ROOMS OTHER THAN KITCHENS SHALL HAVE AN AREA NOT LESS THAN 70 SQ. FT.

HABITABLE ROOMS SHALL BE A MINIMUM CEILING HEIGHT OF 7'6". KITCHENS, HALLWAYS, BATHROOMS, AND CORRIDORS MAY BE 7'0". WHERE SLOPING CEILINGS OCCUR, THE REQUIRED CEILING HEIGHT SHALL BE PROVIDED IN AT LEAST 50% OF THE ROOM AND NO PORTION OF ANY ROOM HAVING A CEILING HEIGHT OF LESS THAN 5'0" SHALL BE CONSIDERED AS CONTRIBUTING TO THE MINIMUM REQUIRED AREAS.

AT LEAST ONE ROOM SHALL HAVE AN AREA NOT LESS THAN 120 SQ. FT.

MINIMUM HABITABLE ROOM WIDTH IS 7'0". EXCEPT KITCHENS.

UNLESS AN EXTERIOR DOOR IS PROVIDED, ONE WINDOW SILL IN EACH BEDROOM SHALL HAVE A FINISHED HEIGHT OF NOT MORE THAN 44" ABOVE THE FLOOR. SUCH WINDOW SHALL HAVE A NET CLEAR OPENABLE AREA OF NOT LESS THAN 5.7 SQ. FT. WITH NO NET CLEAR DIMENSION LESS THAN 24" IN HEIGHT OR 20" IN WIDTH.

NO WATER CLOSET SPACE SHALL BE LESS THAN 30" WIDE AND 24" CLEAR IN FRONT OF THE WATER CLOSET. WATER CLOSET TO BE A MINIMUM OF 15" CENTERED FROM SIDE WALLS.

NO SHOWER STALL FIXTURE SHALL HAVE A FINISHED CLEAR INSIDE NET DIMENSION OF LESS THAN 2'6" SQUARE.

DESIGN CRITERIA & ASSUMPTIONS

IN THE ABSENCE OF ANY SPECIFIC DESIGN CRITERIA TO THE CONTRARY PROVIDED BY THE CLIENT, THE FOLLOWING DESIGN ASSUMPTIONS WERE USED FOR THIS PROJECT.UNLESS SPECIFIC DATA STATING OTHERWISE WAS PROVIDED TO THE ENGINEER,CONTRACTOR OR REQUIRED BY THE BUILDING OFFICIAL.

1) THE ALLOWABLE SOIL BEARING PRESSURE IS 1500 PSF ASSUMED UNLESS A PRELIMINARY SOILS REPORT IS PROVIDED BY THE CLIENT TO THE ENGINEER. THE CLIENT ACCEPTS FULL AND COMPLETE RESPONSIBILITY FOR THIS ASSUMPTION OR THE CLIENT AGREES TO PROVIDE A COMPLETE SOILS INVESTIGATION PRIOR TO COMMENCEMENT OF CONSTRUCTION.

2) THERE ARE NO EXPANSIVE SOIL CONDITIONS PRESENT AT THIS SITE.

3) ANY GRADING WORK PERFORMED ON THIS WAS DONE IN ACCORDANCE WITH ALL CODE REQUIREMENTS AND WORKMANSHIP WAS PERFORMED IN A FIRST CLASS MANNER.

4) THE LOADING DEAD, LIVE, WIND, SEISMIC, AND DEFLECTION CRITERIA IS APPROPRIATE FOR THIS PROJECT, AND THE CLIENT HAS REVIEWED AND APPROVED THEM PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

5) THE PLANS WERE PREPARED TO MEET MINIMUM REQUIREMENTS.

ACCEPTANCE OF THE ABOVE DESIGN ASSUMPTIONS BY THE LOCAL BUILDING OFFICIAL AND THE LOCAL BUILDING OFFICIAL'S APPROVAL OF THESE PLANS INDICATES THAT THIS DESIGN MEETS THE STANDARD OF PRACTICE FOR THE AREA ESTABLISHED BY THE LOCAL BUILDING OFFICIAL.

THE USE OF THESE PLANS BY THE CLIENT INDICATES FULL ACCEPTANCE AND UNDERSTANDING BY THE CLIENT OF THE PROCEEDING CRITERIA AND THAT THE CLIENT WILL NOTIFY THE ENGINEER IN WRITING PRIOR TO COMMENCEMENT OF CONSTRUCTION IF THE CLIENT IS AWARE OF ANY ADVERSE CONDITIONS WITH THIS SITE OR IF ANY OTHER CRITERIA IS NOT ACCEPTABLE TO THE CLIENT OR APPROPRIATE FOR THIS PROJECT.

THE FOLLOWING IS A LIST OF ADDITIONAL ITEMS THAT ARE NOT NORMALLY REQUIRED TO MEET MINIMUM BUILDING CODE REQUIREMENTS BUT THE OWNER MAY WISH TO HAVE THESE PREFORMED AT AN ADDITIONAL EXPENSE TO THE OWNER:

1) SOILS INVESTIGATION.
2) SPECIALIZED CONCRETE, GROUT, MORTAR MIX DESIGNS.
3) SPECIAL CONCRETE, GROUT, MORTAR INSPECTIONS.
4) STEEL/WELDING INSPECTIONS.
5) STRUCTURAL OBSERVATIONS BY ENGINEER OF RECORD.
6) PRIVATE INSPECTIONS, SUCH AS, STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING, ETC.
7) SHOP DRAWINGS FOR ALL SPECIALLY FABRICATED ITEMS FOR THIS PROJECT.
8) ANY OTHER SPECIFIC ITEMS OR INSPECTIONS THE CLIENT MIGHT WISH TO HAVE DONE.

THE CLIENT AGREES TO LIMIT THE ENGINEER'S LIABILITY TO THE CLIENT AND TO ALL CONTRACTORS AND SUBCONTRACTORS ON THIS PROJECT, DUE TO PROFESSIONAL NEGLIGENT ACTS, ERRORS OR OMISSIONS OF THE ENGINEER TO THE SUM OF THE ENGINEER'S FEE.

CONCRETE NOTES

(THIS SECTION SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY TO ERECT ALL FORMS, PLACE AND FINISH ALL STRUCTURAL CONCRETE AND FLATWORK AS INDICATED.)

CONCRETE FORMWORK — ALL FORMS SHALL BE INSTALLED WITH SUFFICIENT STRENGTH AND RIGIDITY TO REMAIN UNYIELDING, TRUE TO LINE AND LEVELS, AND PREVENT LEAKS OR BLOWOUTS, AND BE THOROUGHLY WETTED BEFORE POURING CONCRETE.

EXPANSION JOINTS SHALL BE SAW CUT EVERY 12', OR AT OWNER/CONTRACTOR OPTION.

CONCRETE REINFORCEMENTS SHALL BE GRADE 40 DEFORMED BARS CONFORMING TO ALL ASTM STANDARD SPECIFICATIONS AND SHALL BE FINALLY HUNG IN PLACE BEFORE THE CONCRETE IS POURED TO COMPLY WITH CBC STANDARDS 19/ 19A. PROVIDE ALL REINFORCING ACCESSORIES AS REQUIRED BY THE MANUAL FOR DETAILING REINFORCED CONCRETE STRUCTURES (A.C.I. LATEST EDITION).

REINFORCING STEEL SHALL BE SPLICED WITH A MINIMUM LAP OF 30 BAR DIAMETERS OR 18" EXCEPT WHERE NOTED, AND SHALL HAVE A MINIMUM COVER AS FOLLOWS: FOOTINGS – 3", WALLS – 1 1/2" (EXPOSED), 2" AGAINST EARTH, COLUMNS 1 1/2".

CAST IN PLACE CONCRETE SHALL ATTAIN 3000 PSI MINIMUM IN 28 DAYS UNLESS OTHERWISE NOTED, AND SHALL HAVE 5 SACKS PER YARD MINIMUM AND 7 1/2 GALLONS OF WATER PER SACK MINIMUM, WITH A 4" MAXIMUM SLUMP.

TRANSIT–MIX CONCRETE SHALL BE MEASURED, MIXED, AND DELIVERED IN ACCORDANCE WITH REQUIREMENTS SET FOURTH IN TENTATIVE SPECIFICATIONS FOR TRANSIT–MIX CONCRETE (ASTM C–94).

ALL EXTERIOR SLABS TO HAVE A LIGHT BROOM FINISH, UNLESS OTHERWISE INDICATED, AND SHALL BE SLOPED TO DRAIN AWAY.

EXCAVATION AND GRADING

DESIGN SOIL PRESSURE TO 1500 P.S.F. IF MASONRY, 1500 P.S.F. FOR FIREPLACE AND FOUNDATION WALLS.

CUT SLOPES FOR PERMANENT EXCAVATIONS AND FILLS SHALL NOT BE STEEPER THAN 2 HORIZONTAL TO 1 VERTICAL.

EXCAVATE FOR FOOTINGS BELOW ALL ORGANIC MATERIAL AND REMOVE ALL LOOSE MATERIAL FROM FOOTING EXCAVATIONS.

PROVISIONS SHALL BE MADE FOR THE CONTROL OF DRAINAGE OF SURFACE WATER AROUND THE BUILDING. CBC APPENDIX J

CONCRETE AND FOUNDATION

ALL FOOTING TO BE ON FIRM, UNDISTURBED SOIL. FOOTING TO EXTEND BELOW FROSTLINE. FOUNDATIONS SUPPORTING WOOD TO EXTEND AT LEAST 6" ABOVE ADJACENT FINISH GRADE.

EXTEND PIERS AND FOUNDATION 6" BELOW INSIDE EXCAVATED GRADE. CBC TABLE 29A.

MINIMUM THICKNESS FOR SLAB FLOORS TO BE 3–1/2". CBC 1910.

FILL UNDER GROUND–SUPPORTED SLABS TO MINIMUM OF 2" SAND.

PROVIDE KEYED CONTROL JOINTS IN ALL SLABS ON GRADE AT 12'–0" O.C. EACH WAY MAXIMUM. PROVIDE HEAVY (3/4") TOOLED JOINTS AT EXTERIOR W.S.O.G. AND 1/2" PRE–MOLDED EXPANSION JOINTS AT 30'0" O.C. IN ALL INTERIOR WALLS AND SLABS.

ALL REINFORCING STEEL TO BE A–615 GRADE 40. WELDED WIRE MESH TO BE A–185.

PLACE ALL REINFORCING AS PER ACI CODES AND STANDARDS.

GROUND COVER IN CRAWL SPACES TO BE 6MIL, BLACK POLYETHYLENE.

ALL WOOD IN DIRECT CONTACT WITH CONCRETE OR MASONRY TO BE FOUNDATION GRADE REDWOOD OR PRESSURE TREATED DOUGLAS FIR. (SUDDEN) CBC 2304.11.4.

VENT CRAWL SPACES 1.5 SQ. FT. FOR EACH 25 LINEAR FEET OF WALL WITH MINIMUM OF 18" SPACE, SCREENED AND COVERED, ON 1/3RD OF THE AREA.

VAPOR BARRIERS UNDER CONCRETE SLABS ON GRADE TO 6MIL MINIMUM. VISQUEEN OR EQUAL.

BEAM POCKETS IN CONCRETE WALLS TO HAVE 1/2" AIR SPACE AROUND BEAM SIDES AND END. POSTS AND BEAMS TO REST ON ASPHALT SHINGLE OR METAL BEARING PLATE. ENDS OF GIRDERS SUPPORTED ON CONCRETE OR MASONRY SHALL HAVE NO LESS THAN 3" BEARING.

GARAGE FOUNDATIONS MUST MEET REQUIREMENTS FOR ONE–STORY BUILDINGS. CBC 2308.6 AND CHAPTER 18

CONCRETE SLAB WIRE MESH SHALL BE 6"x6"/10 10 WIRE MESH.

ANCHOR BOLTS TO BE A–307. IN PRESSURE TREATED WOOD SILLS, ANCHOR BOLTS TO BE 1/2" DIAMETER, EMBEDDED AT LEAST 7" INTO CONCRETE. 15" INTO UNREINFORCED MASONRY AND PLACED 6" O.C. UNLESS OTHERWISE SHOWN ON THE PLANS, AND 12" FROM BLOCK OR SILL ENDS AND CORNERS. CBC 2907(f) OR SPECIFY TYPE, MANUFACTURE, AND LOCATION OF ANCHORS.

BUILDER TO PROVIDE A CRAWL SPACE ACCESS PANEL A MINIMUM OF 18" WIDE LOCATED IN AN ACCESSIBLE PLACE NOT LESS THAN 30" AWAY FROM PLUMBING CLEANOUTS. CBC 1209

WATERPROOF BASEMENT WALLS BEFORE BACKFILLING, AND ALSO PLACE FOOTING DRAIN TILE IF REQUIRED.

MINIMUM VERTICAL AND HORIZONTAL REINFORCEMENT FOR CONCRETE WALLS AND FOUNDATIONS SHALL CONFORM TO CBC 19.

WOOD AND PLASTICS

ALL FRAMING LUMBER SHALL BE DOUGLAS FIR/LARCH AND CONFORM TO THE LATEST RULES, GRADE MARKED AS FOLLOWS UNLESS OTHERWISE NOTED:

1. STUDS SHALL BE STUD GRADE OR BETTER #4
2. BLOCKING SHALL BE #3 OR #4
3. ALL BEAMS TO BE MIXED SPECIES #2
4. HEADERS, POSTS AND 2x HORIZONTAL MEMBERS NO. 2
5. BEAMS AND STRINGERS SHALL BE NO. 2 OR BETTER, #4s OR ROUGH OR RESAWN AS NOTED

ALL WOOD BASE SHEATHING SHALL BE DOUGLAS FIR EXTERIOR GLUE CONFORMING TO P.S. 1–66 AND U.S. COMMERCIAL STANDARD CS–45–66 AND STAMPED WITH THE D.F.P.A. TRADEMARK.

1. VERTICAL DIAPHRAGMS TO BE STRUCT I OR AS NOTED.
2. HORIZONTAL DIAPHRAGMS TO BE I OR AS NOTED.
3. EXPOSED SHEATHING – RESAWN OR A–C EXT. GRADE.
4. SIDING BY GRADE AS NOTED OVER 1/4 FILL.
5. PROVIDE 1/8" GAP AT ALL WOOD BASE SHEATHING SHEARWALL JOINTS.

ALL SILL PLATE SHALL BE CONNECTED TO THE CONCRETE AS FOLLOWS:

1. ANCHOR BOLTS – 1/2" HOT DIPPED GALVANIZED WITH NUT AND WASHER, MIN. EMBEDMENT. UNLESS NOTED OTHERWISE SEE PLANS (2 BOLTS PER PLATE MIN.)
2. SIMPSON MUD ANCHORS – SAME AS ABOVE.
3. SHOT PINS – COMBUSTION (TRACE HAS SET FOR 7 DAYS). NOT PERMITTED ON SHEARWALLS.
   - A. EXTERIOR OR LOAD BEARING INTERIOR WALLS – 7/32" "RAMSET #32MB PER ICBO REPORT #1470" SHOT PINS AT 24" O.C. WITH THE FIRST 2 PINS 8" AND 16" FROM EACH CUT END OF THE SILL PLATE. STAGGER DOWN AND ACROSS THE PLATE FROM ONE OF SLAB.
   - B. INTERIOR OR NONBEARING WALLS – SAME FASTENER AS A. BUT AT 48" O.C. WITH STAGGERED ENDS.

BOLTS SHALL HAVE STEEL PLATES OR M. I. WASHERS UNDER ALL NUTS BEARING ON WOOD, WITH BOLT HOLES DRILLED 1/16" OVER DIAMETER LOCATED 7 DIAMS FROM ENDS AND 4 DIAMS FROM EDGES OF WOOD.

PLYWOOD PANELS AT FLOOR AND ROOFS TO BE STAGGERED A MINIMUM OF 2 SUPPORT SPANS AND FACE GRAIN TO BE PERPENDICULAR TO SUPPORTS. ALL PLYWOOD FLOORING SHALL BE GLUED OVER EACH SUPPORT WITH ELMERS WUHOLD OR EQUAL.

PROVIDE 2X BLOCKING FULL DEPTH OF FLOOR JOISTS AND RAFTERS 2 X 12 OR DEEPER AT 8'-0 O.C. FOR FULL 10'-0 O.C. FOR RAFTERS AND TRUSSES AND PARTITIONS. USE DOUBLE JOISTS UNDER ALL PARALLEL PARTITIONS. PROVIDE NECESSARY BLOCKING FOR DRYWALL EDGES AND HANGER ATTACHMENTS.

PROVIDE FIREBLOCKING AT MID–HEIGHT ON ALL WALLS OVER 10' HEIGHT AND/OR TO F.H.A. REQUIREMENTS FOR STUCCO WALLS.

TOP PLATES OF ALL STUD WALLS SHALL BE DOUBLED, SAME SIZE AT STUDS. LAP PLATES 48" MINIMUM WITH AT LEAST 16–16D NAILS AT 4" O.C. MINIMUM. UNLESS NOTED OTHERWISE.

FOUNDATION PLATES OR SILLS SHALL BE P.T.D.F. OR FOUNDATION GRADE REDWOOD (CBC SEC. 23).

CUTTING, NOTCHING, OR DRILLING OF BEAMS OR JOISTS TO BE PERMITTED ONLY AS DETAILED OR APPROVED BY THE DRAWING INSPECTION AGENCY.

PROVIDE JET IN BRACES AT ENDS AND EVERY 25' OF EXTERIOR STUD WALLS AND WALL CROSS PARTITIONS (CBC. 2318–6). EXCEPT THAT WALLS SHEATHED WITH PLYWOOD SIDING IS USED.

ALL EXTERIOR WALL FRAMING TO RECEIVE 15 LB. WATER PROOF BUILDING PAPER UNDER EXTERIOR WALL MATERIAL. PROVIDE 2 LAYERS TYPE "D" PAPER BETWEEN WOOD BASE SHEATHING AND STUCCO.

ALL EXPOSED BEAMS, FACIAS, AND TRIM SHALL BE RESAWN/S4S U.O.N.

AN A.I.T.C. OR APPROVED FABRICATION CERTIFICATE OR CONFORMANCE SHALL BE SUBMITTED TO THE BUILDING INSPECTOR PRIOR TO INSULATION OF ANY STRUCTURAL GLU–LAM MEMBERS. GLU–LAM BEAMS SHALL BE DOUGLAS FIR (COAST REGION).

PROVIDE ALL LABOR AND MATERIALS NECESSARY TO INSTALL BASE, DOORS AND WINDOW TRIM, CLOSET RODS AND SHELVES, FINISH HARDWARE AND TOILET ACCESSORIES, SPECIAL SHELVING BRACKETS FOR DECORATIVE TRIM AND PANELING AS REQUIRED, IN ACCORDANCE WITH W.I.C. STANDARDS.

ALL WOOD TO BE IN CONTACT WITH CONCRETE OR EARTH SHALL BE PRESSURE TREATED BY AN APPROVED TREATMENT PLANT, OR BE FOUNDATION GRADE REDWOOD.

TRIM AND MILL WORK SHALL BE INSTALLED BY QUALIFIED AND COMPETENT CRAFTSMAN AS SHOWN IN THE DRAWINGS.

PRE–MANUFACTURED STRUCTURAL PLASTICS SHALL BE SUPPLIED BY APPROVED FABRICATORS. I.A.W. CBC REQUIREMENTS.

SKYLIGHTS SHALL BE ICBO APPROVED AND INSTALLED IN CURBS, PROPERLY FLASHED AND 'X' A METAL FRAMED OR SELF–FLASHING – CONTRACTORS CHOICE UNLESS OTHERWISE DETAILED.

FRAMING

ALL WOOD FRAMED CONSTRUCTION SHALL CONFORM TO CBC.

ALL LUMBER SHALL BE GRADE MARKED AND SHALL CONFORM WITH THE LATEST STANDARD GRADING RULES OF THE WEST COAST LUMBER INSPECTION BUREAU. ALL PLYWOOD SHALL BEAR THE APA GRADE STAMP AND PANEL INDEX.

ALL MUDSILLS AND ALL LUMBER IN CONTACT WITH CONCRETE AND MASONRY OR WITHIN 6" OF GRADE SHALL BE PRESSURE TREATED DOUGLAS FIR OR REDWOOD.

ALL VERTICAL FRAMING SHALL BE MINIMUM STANDARD GRADE DOUGLAS FIR OR BETTER.

ALL HORIZONTAL FRAMING SHALL BE DOUGLAS FIR #2 GRADE OR BETTER.

ALL BLOCKING AND FURRING SHALL BE CONSTRUCTION GRADE OR BETTER.

ALL STRUCTURAL PLYWOOD SHEATHING SHALL BE C–D EXT.–APA (STANDARD) GRADE WITH INTERIOR/EXTERIOR GLUE UNLESS NOTED OTHERWISE. ALLOWABLE SPANS SHALL CONFORM TO CBC TABLE 2308.8.3. ALL PLYWOOD SHALL BE INSTALLED WITH FACE GRAIN PERPENDICULAR TO SUPPORTS.

WALL FRAMING FOR EXTERIOR OR BEARING WALLS SHALL BE 2 X 4 STUDS AT 16" O.C. UNLESS OTHERWISE NOTED AND DOUBLE 2X TOP PLATE WITH THE MINIMUM 48" LAP SPLICE.

PROVIDE MAXIMUM 12 GA. BY 1 1/2" WIDE METAL STRAP TIES WHERE TOP OR BOTTOM PLATES ARE INTERRUPTED AND BROKEN.

MAXIMUM HEIGHT OF UN–BRACED STUDS AT EXTERIOR WALLS OR INTERIOR BEARING WALLS SHALL BE PER CBC TABLE 2308.8.1 UNLESS NOTED OTHERWISE.

PROVIDE MID–HEIGHT FIREBLOCKING AT FLOOR, CEILING, SOFFIT, AND AT EACH STUD SPACE THAT EXCEEDS 10'–0" IN HEIGHT.

PROVIDE TEMPORARY DIAGONAL BRACING AS REQUIRED FOR ERECTION.

PROVIDE DOUBLE JOISTS UNDER ALL PARALLEL PARTITIONS IN SOLID BLOCKING AT 48" O.C. MINIMUM BETWEEN JOISTS UNDER PARTITIONS PERPENDICULAR TO JOISTS.

ALL EXTERIOR WALLS AND MAIN CROSS STUD PARTITIONS SHALL BE BRACED AT EACH END, OR AS NEAR THERETO AS POSSIBLE AND AT EVERY 25' – 0" OF LINEAL WALL. IF 1 X 6 BRACING IS SHOWN IT SHALL RUN DIAGONALLY IN A STRAIGHT LINE FROM THE TOP PLATE TO THE BOTTOM PLATE AND AT AN ANGLE AS NEAR AS PRACTICAL TO 45 DEGREES BUT ALWAYS AT SUFFICIENT ANGLE TO INCLUDE FOUR STUD SPACES.

GLUE LAMINATED BEAMS SHALL BE AS REQUIRED BY ENGINEER'S CALCULATIONS OR PLANS. MANUFACTURER'S CERTIFICATION OF GLU–LAM BEAMS SHALL BE PROVIDED AT THE TIME OF INSPECTION WHICH PROPERLY INDICATES THE FIBER BENDING AND GRADE SPECIFICATIONS (COMBINATION NUMBER).

ALL WOOD TO BE 2" MINIMUM HORIZONTAL DISTANCE FROM CHIMNEY OR FLUE.

PROVIDE CROSS BRIDGING OR BLOCKING AT FLOOR JOISTS AND RAFTERS 12' OR MORE IN DEPTH. RAFTERS OR JOISTS SHALL BE SUPPORTED LATERALLY BY BRIDGING AT INTERVALS NOT EXCEEDING 8'–0". UNLESS BOTH EDGES ARE HELD IN LINE.

EXTERIOR WOOD SIDING TO BE INSTALLED OVER 15# BUILDING PAPER. FOR VERTICAL SIDING PROVIDE HORIZONTAL BLOCKING SPACED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS OR LISTING, BUT NOT TO EXCEED 16" O.C.

UNDER FLOOR VENTS TO BE ON A LEAST 2 APPROXIMATELY OPPOSITE SIDES OF CRAWL SPACE AND SHALL BE LOCATED WITHIN 3' OF EACH CORNER. SCREEN OPENING OF 1/4" MESH OR EQUAL.

TRANSIT–MIX CONCRETE SHALL BE MEASURED, MIXED, AND DELIVERED IN ACCORDANCE WITH REQUIREMENTS SET FOURTH IN TENTATIVE SPECIFICATIONS FOR TRANSIT–MIX CONCRETE (ASTM C–94).

ALL EXTERIOR SLABS TO HAVE A LIGHT BROOM FINISH, UNLESS OTHERWISE INDICATED, AND SHALL BE SLOPED TO DRAIN AWAY.

EXCAVATION AND GRADING

DESIGN SOIL PRESSURE TO 1500 P.S.F. IF MASONRY, 1500 P.S.F. FOR FIREPLACE AND FOUNDATION WALLS.

CUT SLOPES FOR PERMANENT EXCAVATIONS AND FILLS SHALL NOT BE STEEPER THAN 2 HORIZONTAL TO 1 VERTICAL.

EXCAVATE FOR FOOTINGS BELOW ALL ORGANIC MATERIAL AND REMOVE ALL LOOSE MATERIAL FROM FOOTING EXCAVATIONS.

PROVISIONS SHALL BE MADE FOR THE CONTROL OF DRAINAGE OF SURFACE WATER AROUND THE BUILDING. CBC APPENDIX J

CONCRETE AND FOUNDATION

ALL FOOTING TO BE ON FIRM, UNDISTURBED SOIL. FOOTING TO EXTEND BELOW FROSTLINE. FOUNDATIONS SUPPORTING WOOD TO EXTEND AT LEAST 6" ABOVE ADJACENT FINISH GRADE.

EXTEND PIERS AND FOUNDATION 6" BELOW INSIDE EXCAVATED GRADE. CBC TABLE 29A.

MINIMUM THICKNESS FOR SLAB FLOORS TO BE 3–1/2". CBC 1910.

FILL UNDER GROUND–SUPPORTED SLABS TO MINIMUM OF 2" SAND.

PROVIDE KEYED CONTROL JOINTS IN ALL SLABS ON GRADE AT 12'–0" O.C. EACH WAY MAXIMUM. PROVIDE HEAVY (3/4") TOOLED JOINTS AT EXTERIOR W.S.O.G. AND 1/2" PRE–MOLDED EXPANSION JOINTS AT 30'0" O.C. IN ALL INTERIOR WALLS AND SLABS.

ALL REINFORCING STEEL TO BE A–615 GRADE 40. WELDED WIRE MESH TO BE A–185.

PLACE ALL REINFORCING AS PER ACI CODES AND STANDARDS.

GROUND COVER IN CRAWL SPACES TO BE 6MIL, BLACK POLYETHYLENE.

ALL WOOD IN DIRECT CONTACT WITH CONCRETE OR MASONRY TO BE FOUNDATION GRADE REDWOOD OR PRESSURE TREATED DOUGLAS FIR. (SUDDEN) CBC 2304.11.4.

VENT CRAWL SPACES 1.5 SQ. FT. FOR EACH 25 LINEAR FEET OF WALL WITH MINIMUM OF 18" SPACE, SCREENED AND COVERED, ON 1/3RD OF THE AREA.

VAPOR BARRIERS UNDER CONCRETE SLABS ON GRADE TO 6MIL MINIMUM. VISQUEEN OR EQUAL.

BE