

STUDY SET NOT FOR CONSTRUCTION

STUDY SET

DESIGN NORTHWEST INC. • 4692-D NE 4TH PLAIN VANCOUVER WA 98662 Pk. 13601 252-1765 www.DesignNW.net

ALL CONSTRUCTION TO BE BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL DIMENSIONS AND CONDITIONS OF THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE ARCHITECT OF ANY DISCREPANCIES OR CHANGES TO THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY INSURANCE AND BONDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY UTILITIES AND SERVICES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY MATERIALS AND LABOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE ARCHITECT OF ANY DISCREPANCIES OR CHANGES TO THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY INSURANCE AND BONDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY UTILITIES AND SERVICES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY MATERIALS AND LABOR.

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FRAMING LUMBER
LUMBER SPECIES: DOUGLAS FIR-LARCH GRADE LUMBER
LUMBER GRADE:
EXTERIOR WALL STUDS NO.2 OR BETTER
INTERIOR NON-BEARING WALL STUDSSTANDARD OR BETTER
INTERIOR BEARING WALL STUDSNO.2 OR BETTER
JOISTSNO.2 OR BETTER
BEAMSNO.1 OR BETTER UNLESS NOTED ON PLAN
POSTSNO.1 OR BETTER UNLESS NOTED ON PLAN
BLOCKINGSTANDARD OR BETTER
SOLID BLOCKING USE SAME DEPTH AS MEMBERS

ANY WOOD IN CONTACT WITH CONCRETE MUST BE PRESURE TREATED (PER 2006 IRC R319)

GLUE LAMINATED MEMBERS:
MEMBER SPECIES: USE WESTERN
MEMBER GRADE: (SIMPLE, MULTIPLE SPAN OR CANTILEVERED SPANS) USE 24F-V4

MATERIAL STANDARDS: ARCHITECTURAL GRADE APPEARANCE DO NOT USE 24F-1.8E UNLESS NOTED & APPROVED BY A QUALIFIED SUPPLIER OR STRUCTURAL ENGINEER.

GL-LAM COLUMNS: USE COMBINATION #3 DF

PLYWOOD SHEATHING
ROOF SHEATHING: 1/2" MIN. INDEX 32/16.
FLOOR SHEATHING: 3/4" MIN. INDEX 48/24 T&G
WALLS SHEATHING: 7/16" MIN. INDEX 32/10

ENGINEERED WOOD PRODUCTS MUST CONFORM WITH ALL APPLICABLE PROVISIONS OF THE IRC 2006 CODE

WOOD PRODUCT MANUFACTURER:
TRUSS JOIST -TJI SERIES JOIST OR
BOISE ENGINEERING -BGI SERIES JOISTS

ASSEMBLIES AND HANGERS, AS REQUIRED TO PROVIDE A COMPLETE FLOOR OR ROOF STRUCTURAL SYSTEM PER I-JOIST MANUF.

RIM BOARD:
1-1/4" WIDE, GRADE UNLESS NOTED ON PLANS OR APPROVED BY JOIST SUPPLIER OR STRUCTURAL ENGINEER

BEARING REQUIREMENTS FOR MECHANICAL UNITS:
JOIST SUPPLIER AND CONTRACTOR TO DOUBLE ALL JOISTS MEMBERS UNDER MECH. UNITS, UNLESS NOTED OTHERWISE. DO NOT NOTCH OR DRILL STRUCTURAL MEMBERS, EXCEPT AS APPROVED BY THE STRUCTURAL ENGINEER

SIDING:
SIDING TO BE DETERMINED BY OWNER/BUILDER

GARAGE / DWELLING SEPARATION:
ON THE GARAGE SIDE OF WALLS AND CEILING WITH A MIN. 1/2" GWB AND 5/8" TYPE 'X' GWB AT CEILING WITH HABITABLE ROOMS ABOVE.

INSULATION R-VALUES:
2X4 WALLS: R-15 MIN.
2X6 WALLS: R-21 MIN.
ROOF CAVITIES: R-38 MIN.
VAULTED ROOF CAVITIES: R-30 MIN.
UNDER SLAB: R-10 RIGID MIN., 24" HORIZONTAL LENGTH MIN.
INSULATION DAFFLES AT VENTS (PER IRC I203.2)
FLOOR CAVITIES:
R-30 MIN. WITH 1" MIN. AIR SPACE FOR VENTING (PER IRC I203.2)

CRAWLSPACE:
18" MIN. CLEARANCE FROM GRADE TO BOTTOM OF FLOOR JOIST AND MIN. 12" CLEARANCE TO BOTTOM OF BORDERS OR BEAMS IN THE CRAWLSPACE

ROOF:
COMPOSITION ROOF SHINGLES MUST BE A MINIMUM OF 25 YEAR ON 15# FELT ON 1/2" PLYWOOD ON MANUF. TRUSS OR RAFTERS. 24" O/C PER 2006 IRC R905. USE SIMPSON 2.5 "H" CLIP ON EACH TRUSS OR RAFTER

ATTIC VENTILATION:
ATTIC VENTILATION MUST BE 1/50th OF THE ATTIC AREA OR 1/300th OF ATTIC AREA IF AT LEAST 50 PERCENT BUT NOT MORE THAN 80 PERCENT OF THE REQUIRED VENTILATION IS 3 FEET ABOVE THE EAVE OR CORNICE VENTS OR PROVIDE A MOISTURE BARRIER ON THE WARM SIDE OF THE CEILING. (PER 2006 IRC R806)

OVERHANGS:
OVERHANGS ARE TO BE DETERMINED BY OWNER/BUILDER

GUTTERS:
GUTTERS ARE TO BE DETERMINED BY OWNER/BUILDER

NOTE: BLACKENED AREA - POSTS OR STUDS
■ - 6X6 POSTS OR (3)2X6
■ - 4X6 POSTS OR (3)2X4
■ - 4X4 POSTS OR (2)2X4

6X6 HDR MIN. 7'-9" CEILINGS
4X10 HDR MIN. 8'-0" CEILINGS
4X10 HDR MIN. 9'-0" CEILINGS

TYPICAL 4X4 POSTS USE SIMPSON 'EPD44T' POST BASE AND SIMPSON 'DC4' POST CAP OR EQUI. FOR 4X4 POST CONNECTIONS UNLESS NOTED BY BUILDER/ENGINEER

TYPICAL 6X6 POSTS USE SIMPSON 'CP66' POST BASE AND SIMPSON 'DC6' POST CAP OR EQUI. FOR 6X6 POST CONNECTIONS UNLESS NOTED BY BUILDER/ENGINEER

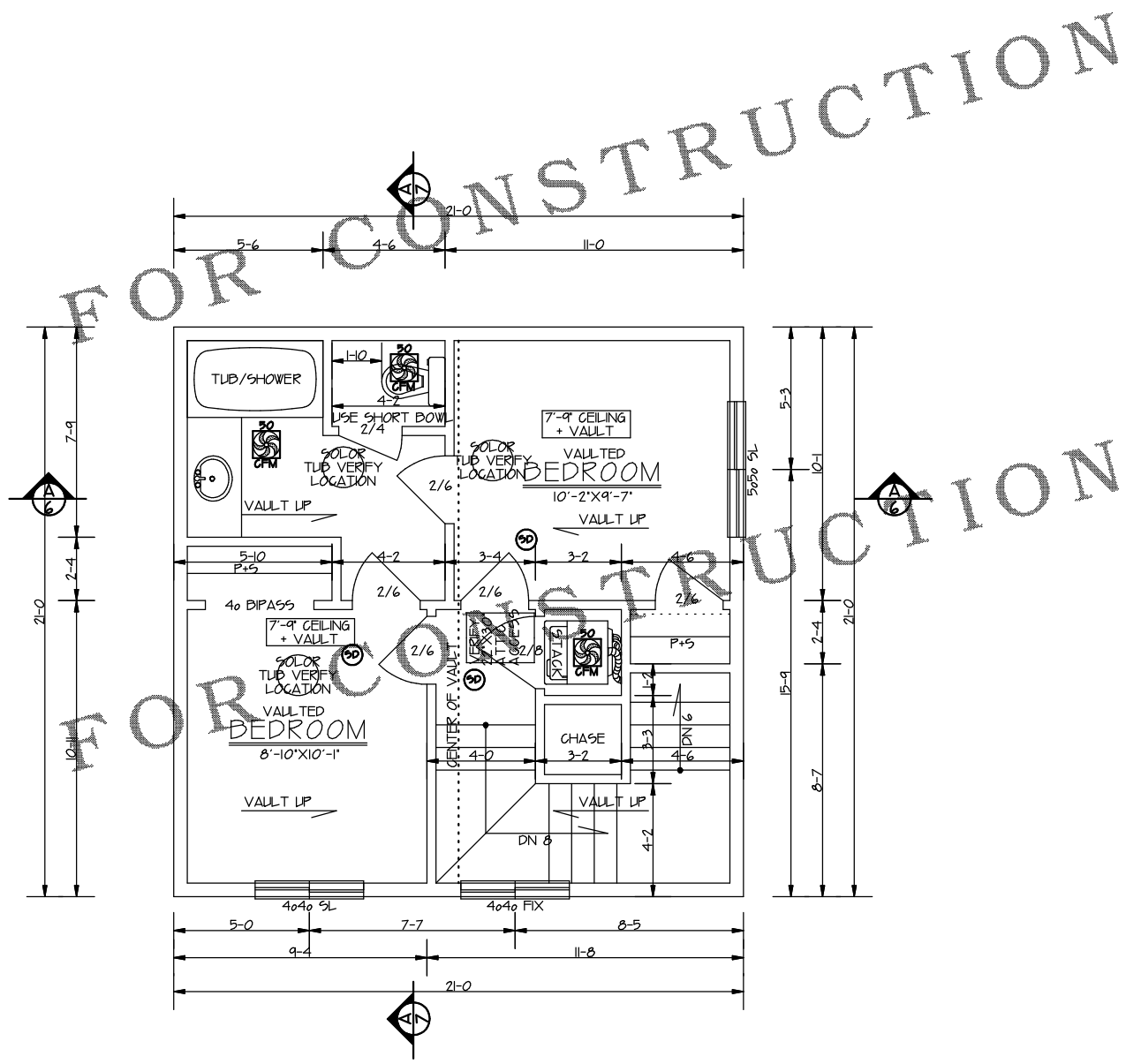
MIN. LOADS
FLOOR:
LIVE 40 P5F
DEAD 10 P5F
ROOF:
LIVE 25 P5F
DEAD 15 P5F
DECKS:
LIVE 40 P5F
DEAD 20 P5F

DESIGN LOADS
GROUND SNOW LOAD
0-600 ELEVATION-10lb P5F
601-800 ELEVATION-10lb P5F
801-1000 ELEVATION-20lb P5F
1000+ ELEVATION- SITE-SPECIFIC CASE STUDY NEEDED

SMOKE DETECTORS SHALL BE INSTALLED IN EACH SLEEPING ROOM AND CENTRALLY LOCATED IN ADJACENT CORRIDOR. SMOKE DETECTORS SHALL BE INSTALLED ON EACH FLOOR LEVEL AND IN BASEMENTS. DETECTORS SHALL SOUND ALARM AUDIBLE IN ALL SLEEPING AREAS AND SHALL BE EQUIPPED WITH BATTERY BACK-UP.

GOVERNING DESIGN CODE: VERSION 1.4
2006 INTERNATIONAL BUILDING CODE
2006 INTERNATIONAL RESIDENTIAL CODE
WITH WASHINGTON STATE AMENDMENTS

GENERAL SPECIFICATIONS AND CODES REFERENCED IN THESE NOTES ARE THE VERSIONS MOST RECENTLY ADOPTED BY THE PERMITTING AUTHORITY. FIELD VERIFY DIMENSIONS AND ELEVATIONS RELATIVE TO THE EXISTING STRUCTURE PRIOR TO FABRICATION OF MATERIALS. FOR FEATURE CONSTRUCTION FIELD VERIFY DIMENSIONS ON LOT WITH SETBACKS AND ELEVATIONS RELATIVE TO HEIGHTS LIMITS. PER CCR'S OR PER LOCAL JURISDICTIONS. APPLY, PLACE, ERECT OR INSTALL ALL PRODUCTS AND MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. ADEQUATELY BRACING STRUCTURE AND ALL STRUCTURAL COMPONENTS AGAINST WIND, LATERAL EARTH AND SEISMIC FORCES UNTIL THE PERMANENT LATERAL FORCE RESISTING SYSTEMS HAVE BEEN INSTALLED. PROVIDE BLOCKING BETWEEN STUDS (OR OTHER MEANS OF BRACING) AT WOOD BEARING WALLS TO PREVENT STUD BUCKLING PRIOR TO INSTALLATION OF GYPSUM WALLBOARD.



2ND FLOOR PLAN
SCALE 1/4"=1'-0"

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