

3708 NE 109TH AVENUE
VANCOUVER, WA 98682

REV	DATE	FILE
PM:	DGG	
PA:		
DRAWN BY:	JSC/CNF	
JOB NO:	14107	
DATE:	04/25/2014	

S1.00
STRUCTURAL
NOTES
AND SCHED

DESIGN CRITERIA:

DESIGN CRITERIA:
DESIGN WAS BASED ON THE STRENGTH AND DEFLECTION CRITERIA OF THE 2012 IBC WITH WASHINGTON AMENDMENTS IN ADDITION TO THE DEAD LOADS, THE FOLLOWING LOADS WERE USED FOR DESIGN:

FLOOR LIVE LOAD=40 PSF
ROOF SNOW LOAD=25 PSF

BASIC WIND SPEED (3-SEC GUST): xxx MPH, WIND EXPOSURE: B
WIND IMPORTANCE FACTOR I_w : 1.0, BUILDING CATEGORY: II

SDS = xxx
SDI = xxx
SEISMIC IMPORTANCE FACTOR Ie: 1.0, SITE CLASS: D

ALLOWABLE SOIL BEARING PRESSURE: 1500 PSF (ASSUMED).

EXISTING CONDITIONS:

THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES FROM CONDITIONS SHOWN ON THE DRAWINGS PRIOR TO THE START OF THE WORK.

TEMPORARY CONDITIONS:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR STRUCTURAL STABILITY OF THE NEW AND EXISTING STRUCTURES AND WALLS DURING CONSTRUCTION. THE STRUCTURE SHOWN ON THE DRAWINGS HAS BEEN DESIGNED FOR STABILITY UNDER THE FINAL CONFIGURATION ONLY.

EARTHWORK:

MAINTAIN THE EXCAVATION FREE FROM GROUND WATER FOR THE TIME REQUIRED TO COMPLETE THE WORK IN A PROPER WORKMANLIKE MANNER. REMOVE LOOSE OR DISTURBED SOIL FROM THE BOTTOMS OF EXCAVATION. FOOTINGS SHALL BEAR ON UNDISTURBED NATIVE SOIL.

SUBMITTALS:

SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER PRIOR TO FABRICATION AND CONSTRUCTION REGARDING ALL STRUCTURAL ITEMS, INCLUDING THE FOLLOWING:

A. CONCRETE REINFORCEMENT

CAST-IN-PLACE CONCRETE:

CONCRETE STRENGTH: $f'_c = 2,500$ PSI AT 28 DAYS.

REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60 WITH MIN LAP = 60 BARS DIAMETER

CONCRETE ACCESSORIES:

EPOXY ANCHORS SHALL BE INSTALLED WITH SIMPSON 'SET-XP' ADHESIVE PER REPORT ESR-2508.

METALS:

ALL MISCELLANEOUS STEEL: ASTM A36 (FY=36,000 PSI), OR AS NOTED ASTM A572 (FY=50 KSI).
THREADED RODS: ASTM A36 OR ASTM A307 (HDG).
WELDING: PER AWS STANDARDS. E70XX ELECTRODE AND BY CERTIFIED WELDERS.
ALL EXPOSED FASTENERS, ACCESSORIES, AND CONNECTORS SHALL BE ZMAX OR HDG OR STAINLESS
STEEL.

CARPENTRY:

SAWN LUMBER DESIGN IS BASED ON THE NATIONAL DESIGN SPECIFICATION, LATEST EDITION. SAWN LUMBER SHALL CONFORM TO WEST COAST LUMBER INSPECTION BUREAU OR WESTERN WOOD PRODUCTS ASSOCIATION GRADING RULES.

ALL FRAMING LUMBER SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 19% AT THE TIME OF FABRICATION. ALL FRAMING SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 15% BEFORE INSTALLING GYPSUM WALL BOARD. ALL WOOD IN PERMANENT CONTACT WITH CONCRETE / CMU OR EXPOSED TO WEATHER SHALL BE PRESSURE TREATED, GRADE AS FOLLOWS:

<u>FRAMING ELEMENT</u>	<u>SPECIES & GRADE</u>
4x AND SMALLER	D.F. #2 OR BETTER
6x AND LARGER BEAMS AND POSTS	D.F. #1 OR BETTER
STUDS	D.F. #2 OR BETTER

FRAMING ACCESSORIES AND STRUCTURAL FASTENERS SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE COMPANY (OR ENGINEER APPROVED EQUAL) AND OF THE SIZE AND TYPE SHOWN ON THE DRAWINGS AND ATTACHED PER MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS UNLESS NOTED OTHERWISE.

ALL FRAMING NAILS SHALL BE COMMON NAILS. NO BOX NAILS ALLOWED. FASTENERS AND ACCESSORIES IN CONTACT WITH PRESERVATIVE TREATED WOOD MUST BE HOT DIPPED GALVANIZED OR HAVE ZMAX COATING. NAIL CALLOUTS SHALL BE INTERPRETED AS FOLLOWS:

<u>NAIL CALLOUT</u>	<u>DIAMETER</u>	<u>LENGTH</u>
8d COMMON	0.131"	2 1/2"
10d COMMON	0.148"	3"
16d SINKER	0.148"	3 1/4"
16d COMMON	0.162"	3 1/2"

SHEATHING PANELS SHALL CONFORM TO THE REQUIREMENTS OF VOLUNTARY PRODUCT STANDARD PS-1 OR PS-2, OR APA PRP-108 PERFORMANCE STANDARDS, UNLESS NOTED. PANELS SHALL BE APA RATED SHEATHING, EXPOSURE 1, OF THE THICKNESS AND SPAN RATING SHOWN ON THE DRAWINGS. SHEATHING INSTALLATION SHALL BE IN CONFORMANCE WITH APA RECOMMENDATIONS. ALLOW 1/8" SPACING AT PANEL ENDS AND EDGES, UNLESS OTHERWISE RECOMMENDED BY THE PANEL MANUFACTURER.

ALL ROOF SHEATHING SHALL BE INSTALLED WITH FACE GRAIN PERPENDICULAR TO SUPPORTS, EXCEPT AS INDICATED ON THE DRAWINGS. NAILING NOT SPECIFICALLY IDENTIFIED ON THE DRAWINGS SHALL CONFORM TO OSSC TABLE 2304.9.1.

FLASHING AND WATERPROOFING:

ALL FLASHING AND WATERPROOFING SHALL BE BY OTHERS.

INSPECTION:

SPECIAL INSPECTIONS, IN ACCORDANCE WITH SECTION 1704 OF THE OREGON STRUCTURAL SPECIALITY CODE AND APPLICABLE SECTIONS OF THE PROJECT SPECIFICATIONS. SPECIAL INSPECTIONS ARE TO BE PERFORMED BY AN INDEPENDENT TESTING LABORATORY EMPLOYED BY THE OWNER PER THE SPECIAL INSPECTION PROGRAM.

 DETAIL REFERENCE

(N) DENOTES NEW CONSTRUCTION

(E) DENOTES EXISTING CONSTRUCTION.

(X) DENOTES KEYNOTE

E.O.R. DENOTES ENGINEER OF RECORD

REPRESENTS NEW WOOD WALLS ABOVE. (DIRECTLY
PLACED OVER THE FLOOR FRAMING SHOWN)

— REPRESENTS EXISTING WOOD WALLS ABOVE. (DIRECTLY PLACED OVER THE FLOOR FRAMING SHOWN)

--- DENOTES EXISTING FOOTINGS

— — DENOTES NEW FOOTINGS.

- VERIFY ALL CONDITIONS WITH ARCHITECTURAL DWGS. DIMENSIONS NOT SHOWN ARE PER APPROVED ARCH'L DWGS. RESOLVE ANY DISCREPANCIES WITH THE ARCHITECT PRIOR TO BIDDING OR CONSTRUCTION.

