GENERAL NOTES:

1. The notes on the drawings are not intended to replace specifications. in addition to general notes. See specifications for requirements
2. Structural drawings shall be used in conjunction with job specifications and architectural, mechanical, electrical, plumbing, and site drawings. Consult, openings, chases, inserts, reglets, sleeves, depressions, and other details not shown on structural drawings.
3. All dimensions and conditions must be verified in the field. Any discrepancies shall be brought to the attention of the engineer before proceeding with the affected part of the work.
4. Do not scale plans.
5. Sections and details shown on any structural drawings shall be considered typical for similar conditions.
6. All propietary products shall be installed in accordance with the manufacturers written instructions.
7. The structure is designed to be self supporting and stable after the erection is complete. It is the contractor's sole responsibility to determine erection procedures and sequencing to ensure the safety of the building and its components during erection. This includes the addition of necessary shoring, sheeting temporary bracing, guys or tiedowns. Such material shall remain the property of the contractor after completion of the project.
8. All applicable federal, state, and municipal regulations shall be followed, including the federal department of labor occupational safety and health act.

DESIGN LOADS:

1. Building code: IRC (2009) International Residential Building Code.
2. Design Live Loads: (Ground Snow load = 50 psf)
   Roof ..... 45 psf + drift as applicable
   Floor ..... 40 psf
3. Design wind loads are based on exposure C using 100 mph basic wind speed.
4. Seismic Design Utilizes Analysis Procedure shall be equivelant Lateral Force Proceedure per IBC 2009.

FOUNDATION NOTES:

1. Foundations have been designed with a presumptive soil bearing capacity of 2000 psf to be verified by the general contractor in the field.
2. Interior spread footings and exterior strip footings shall be founded on undisturbed native soil or compacted structural fill.
3. Slabs on grade shall bear on a minimum of 12" of compacted structural fill or compacted ⅜" crushed stone. If loose or undesirable fills are encountered at the slab subgrade level, they shall be over excavated to the surface of the natural soil and replaced with structural fill. Refer to drawings and specifications for vapor barrier requirements. Moist cure slabs in accordance with ACI.
4. Structural fill shall be used at all locations below footings and slabs and adjacent to the foundation walls. Prior to placement of structural fill, remove all topsoil and other unsuitable material. Compacted structural fill shall consist of clean granular material free of organics, loam, trash, snow, ice, frozen soil or any other objectionable material. It shall be well graded within the following limits:

SCREEN OR SIEVE SIZE	PERCENT FINER BY WEIGHT
6 INCH	100
3 INCH	70–100
NO. 4	35–70
NO. 40	5–35
NO. 200	0–5

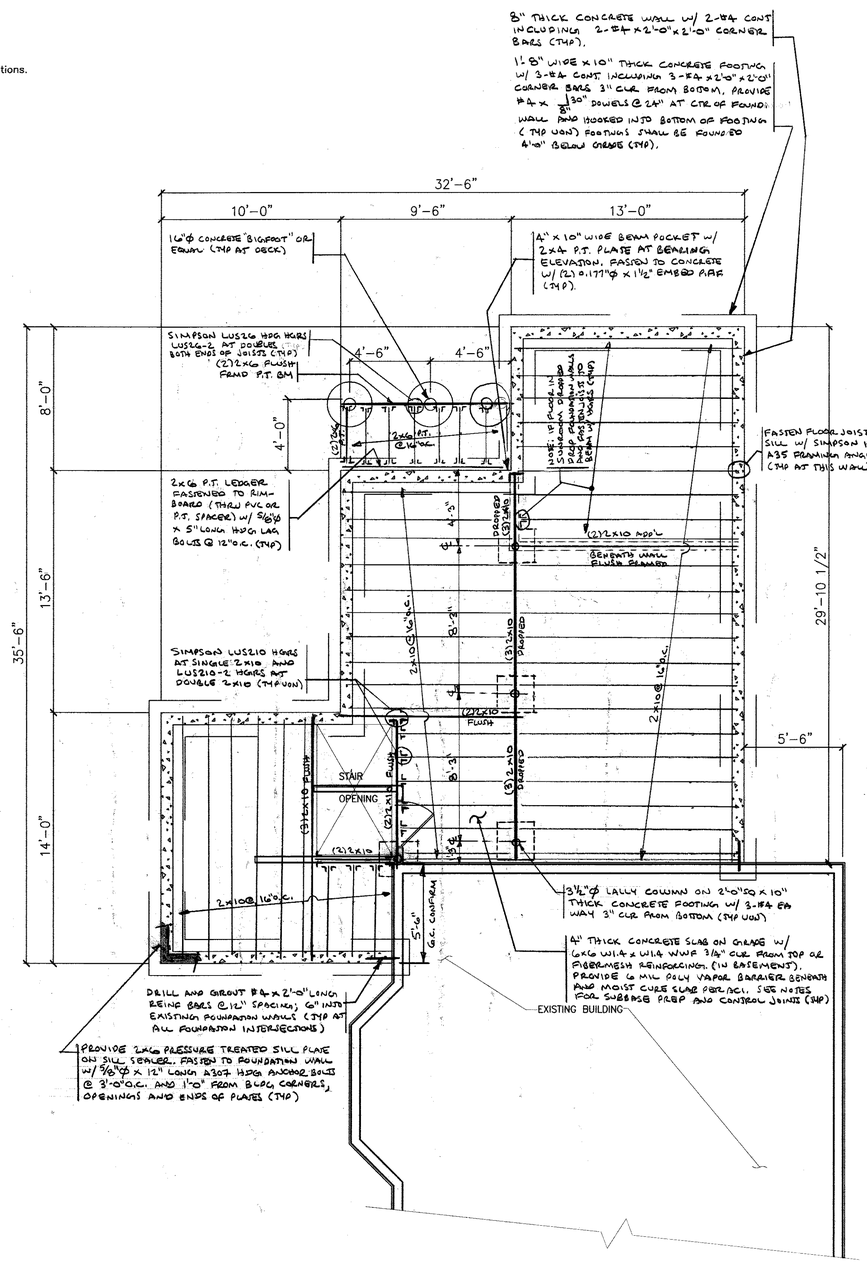
5. Structural fill (or ⅜" crushed stone) beneath slabs shall be placed in layers not exceeding 6 inches in loose measure and compacted by self–propelled compaction equipment at approximate optimum moisture content to a dry density of at least 95% of the maximum in place dry density as determined by the modified proctor test (ASTM D–1557). For structural fill or 100% of the rodded unit weight as determined by ASTM C–29 for ⅜" crushed stone.
6. Underdrains shall be placed as shown on the site drawings. Underdrains shall be installed to positively drain to a suitable discharge point away from the structure. Refer to site drawings for additional information.

CONCRETE NOTES:

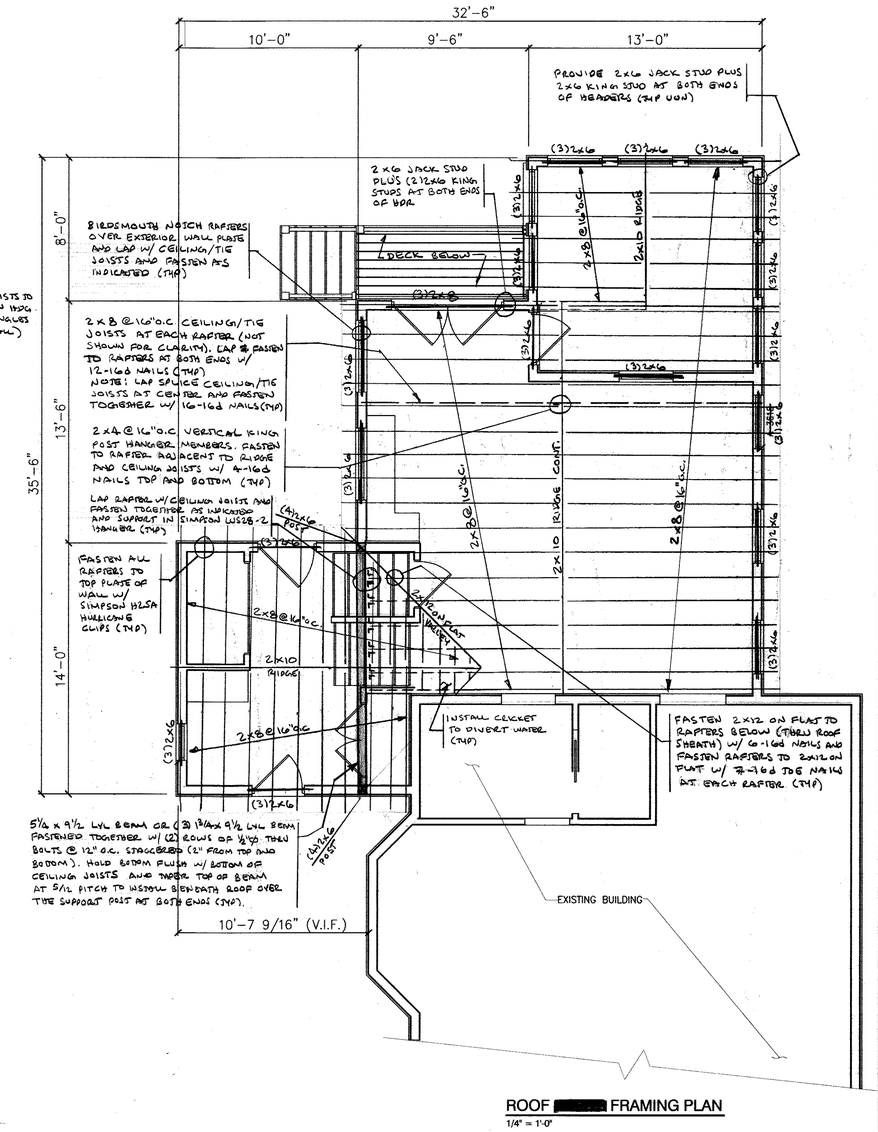
1. All concrete work shall conform to ACI 318–Latest Edition.
2. Concrete strength at 28 days shall be 3000 psi.
3. Reinforcing bars shall conform to ASTM A615 Grade 60 deformed bars, and shall be detailed, fabricated and erected in accordance with ACI 315–Latest edition.
4. Welded wire fabric shall be provided in flat sheets.
5. Fiber reinforced concrete shall conform to ASTM C–1116.
6. Splices of reinforcing bars shall be in accordance with ACI 318. Splices of WWF shall be 6" minimum.
7. Concrete finishes: See specifications and Architectural drawings for applicable finishes.
8. Anchor bolts shall conform to ASTM A307 hot dipped galvanized unless noted otherwise on plan.
9. The general contractor shall be responsible for coordination of door bondout locations, slab depression & other required bondouts. Coordinate location of bondouts with Architectural, Mechanical & Plumbing, Electrical and kitchen equipment vendors as necessary to properly install each specific item.
10. Provide ¾" wide x 1" deep control joints in slabs at 15'X15' intervals (225 SF max) as shown on drawings. Clean joint free of dust and debris; fill with elastomeric caulk compatible with concrete.

TIMBER FRAMING:

1. All Timber framing shall be in accordance with the AITC timber construction manual or the national design specification (NDS) – latest edition
2. Individual timber framing members shall be visually graded, minimum grade #2 Spruce–Pine–Fir (SPF), kiln dried to 19% maximum moisture content.
3. Timber shall be southern yellow pine treated with ACQ water borne preservative in accordance with AWPA treatment C1 with 0.40 PCF retainage for items in contact with roofing, masonry or concrete with 0.60 PCF retainage for items in contact with earth.
4. Metal connectors shall be used at all timber to timber connections or as noted on the design drawings. All metal connectors in contact with pressure treated timber shall be stainless steel.
5. Provide Simpson H2.5A hurricane anchors where timber framing and/or trusses bear on bearing wall and structural beams.
6. Nails and screws not specified shall conform with IBC 2009. All nails and screws in contact with pressure treated timber shall be stainless steel.
7. Provide ½" thick APA rated exterior wall sheathing fastened w/ 10d nails @ 4" o.c. at panel edges and 6" o.c. intermediate. Lap sheathing 1'–0" minimum over existing structure (Where applicable).
8. Provide ⅝" thick APA rated roof sheathing fastened w/ 10d nails @ 6" o.c. at panel edges and intermediate.
9. Provide ¾" thick APA rated floor sheathing fastened w/ construction adhesive and 10d ring shank nails @ 6" o.c. at panel edges and intermediate.
10. LVL indicated laminated veneer lumber beams manufactured by Boise Cascade or approved equal.



FOUNDATION/FIRST FLOOR FRAMING PLANS
1/4" = 1'-0"



ROOF [redacted] FRAMING PLAN
1/4" = 1'-0"

L & L STRUCTURAL
ENGINEERING SERVICES, INC.
SIX Q STREET
SOUTH PORTLAND, MAINE 04106
PHONE: (207) 767-4830
FAX: (207) 799-5432

STATE OF MAINE
JOSEPH H. LEASURE
No. 6242
LICENSED
PROFESSIONAL ENGINEER

rev.	date	description	appr'd

designed by: JHL
drawn by: RJW
checked by: JHL
scale: AS NOTED
date: 5/1/2014
plot date: 5/1/2014
project # 2014-070

RESIDENTIAL BUILDING–ADDITION LOCATED AT
52 RICHARDSON STREET
PORTLAND, MAINE

GENERAL NOTES, FOUNDATION/1ST FLOOR FRAMING PLAN AND ROOF FRAMING PLAN

S1