

GENERAL NOTES:

- The notes on the drawings are not intended to replace specifications, in addition to general notes. See specifications for requirements.
- 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.
- 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.
- Do not scale plans.
- Sections and details shown on any structural drawings shall be considered typical for similar conditions.
- All proprietary products shall be installed in accordance with the manufacturers written instructions.
- 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 tie-downs. Such material shall remain the property of the contractor after completion of the project.
- All applicable federal, state, and municipal regulations shall be followed, including the federal department of labor occupational safety and health act.

DESIGN LOADS:

- Building code: IRC (2009) International Residential Building Code.
- Design Live Loads: (Ground Snow load = 50 psf)
Roof 45 psf + drift as applicable
Floors 40 psf
- Design wind loads are based on exposure B using 100 mph basic wind speed.
- Seismic Design Utilizes a Bearing wall system; Light frame walls with shear panels - wood structure panels/sheet steel panels. Analysis Procedure shall be equivalent Lateral Force Procedure per IRC 2009.

FOUNDATION NOTES:

- Foundations have been designed with a presumptive soil bearing capacity of 2000 psf to be verified by the general contractor in the field.
- Interior spread footings and exterior strip footings shall be founded on undisturbed native soil or compacted structural fill.
- Exterior strip and spread footings shall be founded a minimum of 4'-0" below finished site grade.
- Structural fill shall be used at all locations below footings 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

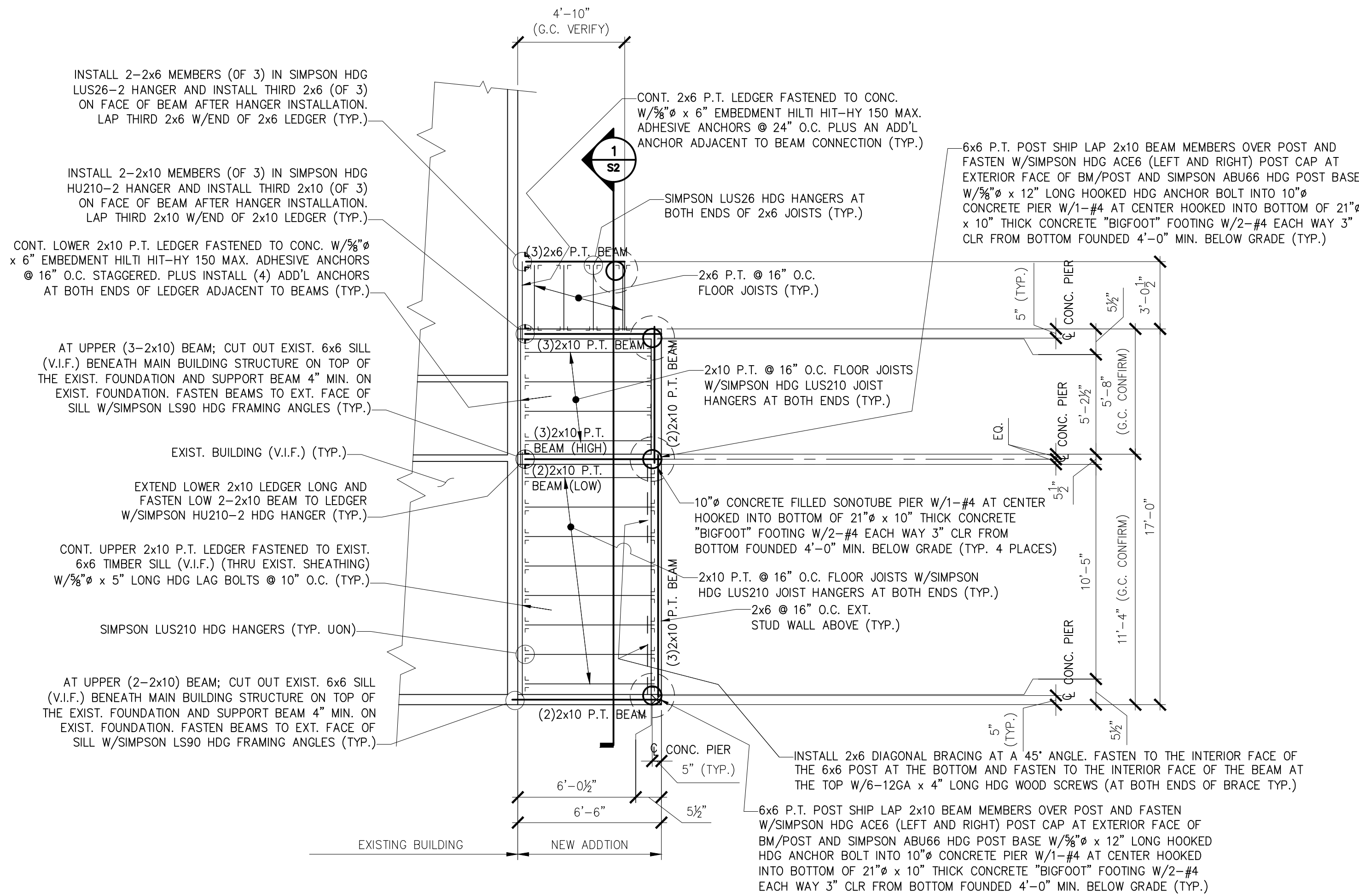
- Structural fill (or $\frac{3}{8}$ " crushed stone) beneath slabs shall be placed in layers not exceeding 6 inches in loose measure and compacted by self-propelled compaction equipment at approximate optimum moisture content to a dry density of at least 95% of the maximum in place dry density as determined by the modified proctor test (ASTM D-1557). For structural fill or 100% of the rodged unit weight as determined by ASTM C-29 for $\frac{3}{8}$ " crushed stone.
- 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:

- All concrete work shall conform to ACI 318-Latest Edition.
- Concrete strength at 28 days shall be 3000 psi.
- All concrete shall be air entrained 4% to 6% per the specifications.
- Concrete shall not be placed in water or on frozen ground.
- Concrete materials:
 - Portland Cement: ASTM C 150, Type I or Type II unless otherwise acceptable to Architect. Use one brand of cement throughout project, unless otherwise acceptable to Architect.
 - Normal Weight Aggregates: ASTM C 33. Provide from a single source for exposed concrete. Do not use aggregates containing soluble salts or other substances such as iron sulfides, pyrite, marcasite, or ochre which can cause stains on exposed concrete surfaces.
 - Light Weight Aggregates: ASTM C 330.
 - Water: Potable.
 - Air-Entraining Admixture: ASTM C 260.
 - High-Range Water-Reducing Admixture (Super Plasticizer): ASTM C 494, Type F or Type G containing not more than 1% chloride ions.
 - Fiber reinforcement shall be added and distributed prior to incorporation of Super Plasticizer.
 - Normal range water reducing admixture: ASTM C 494 Type A containing no calcium chloride.
 - Accelerating Admixture: ASTM C 494 Type C or E.
 - Calcium Chloride not permitted.
- Provide PVC sleeves where pipes pass through concrete walls or slabs.
- 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.
- Welded wire fabric shall be provided in flat sheets.
- Fiber reinforced concrete shall conform to ASTM C-1116.
- Splices of reinforcing bars shall be in accordance with ACI 318. Splices of WWF shall be 6" minimum.
- Concrete finishes: grout cleaned.
- Anchor bolts shall conform to ASTM A307 hot dipped galvanized unless noted otherwise on plan.
- The general contractor shall be responsible for coordination of door bandout locations, slab depression & other required bondouts. Coordinate location of bondouts with Architectural, Mechanical & Plumbing, Electrical and equipment vendors as necessary to properly install each specific item.

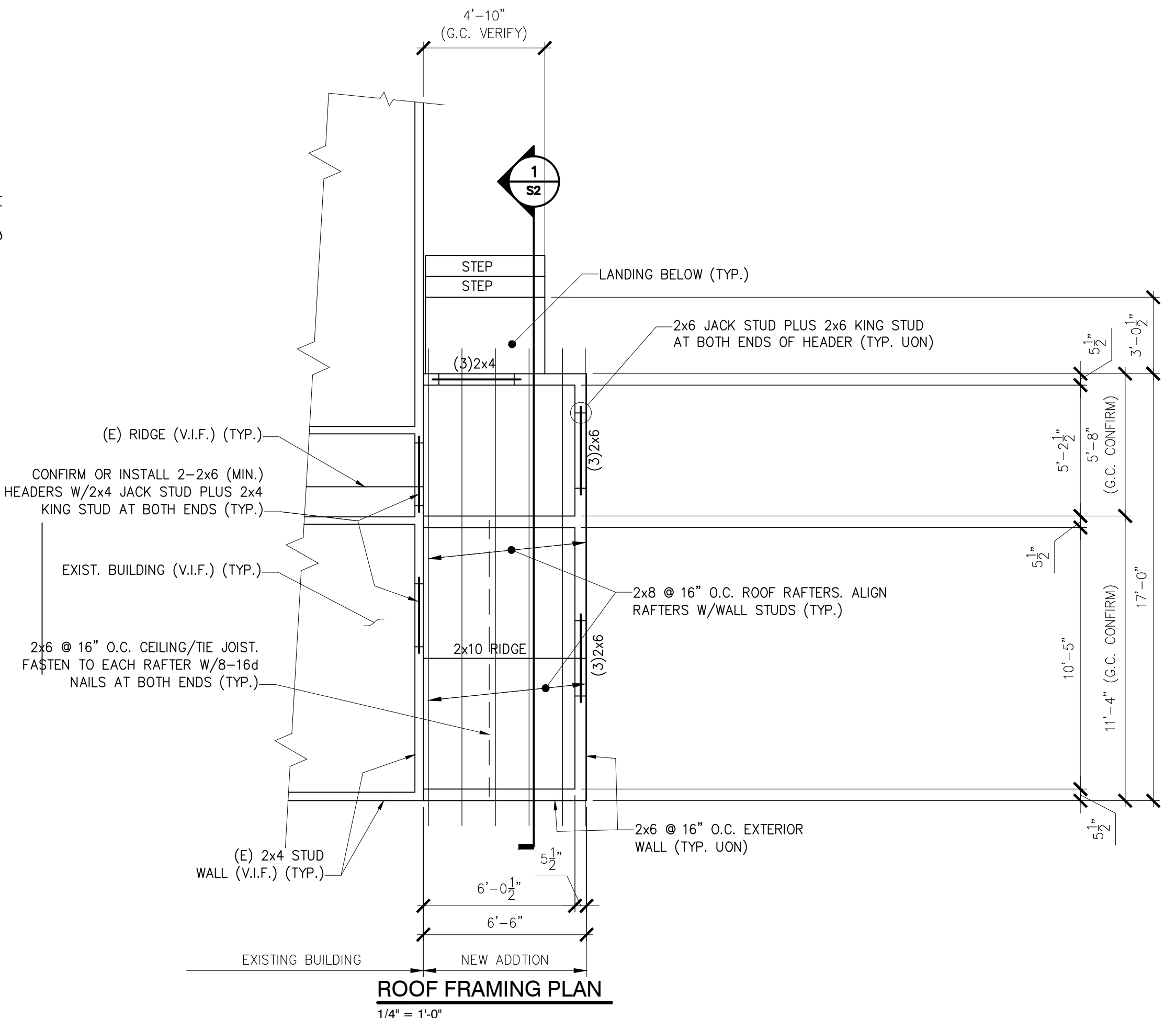
TIMBER FRAMING:

- All Timber framing shall be in accordance with the AITC timber construction manual or the national design specification (NDS) - latest edition
- Individual timber framing members shall be visually graded, minimum grade #2 Spruce-Pine-Fir (SPF), kiln dried to 19% maximum moisture content.
- Timber shall be southern yellow pine treated with ACQ water borne preservative in accordance with AWPA treatment C1 with 0.40 PCF retinage for items in contact with roofing, masonry or concrete with 0.60 PCF retinage for items in contact with earth.
- 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 hot-dipped galvanized.
- Provide Simpson H2.5A hurricane anchors where timber framing and/or trusses bear on bearing walls and structural beams.
- Nails and screws not specified shall conform with IBC 2009. All nails and screws in contact with pressure treated timber shall be stainless steel.
- Provide $\frac{1}{2}$ " 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).
- Provide $\frac{3}{8}$ " thick APA rated roof sheathing fastened w/ 10d nails @ 6" o.c. at panel edges and intermediate.
- Provide $\frac{3}{4}$ " thick APA rated floor sheathing fastened w/ construction adhesive and 10d ring shank nails @ 6" o.c. at panel edges and intermediate.
- LVL indicated laminated veneer lumber beams manufactured by Boise Cascade or approved equal.



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

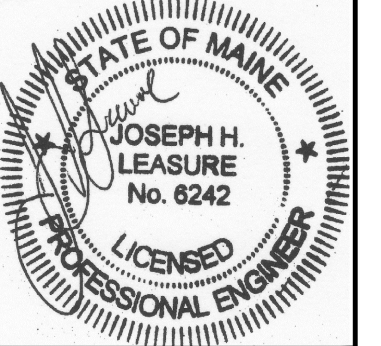
- NOTES:
- SEE GENERAL NOTES ON DWG S1.
 - "E" INDICATES: EXISTING CONDITIONS, OR MEMBERS.
 - "TYP." INDICATES: TYPICAL (ALSO SEE GENERAL NOTE #5).
 - "V.I.F." INDICATES: G.C. SHALL "VERIFY IN FIELD" EXISTING DIMENSIONS, ELEVATIONS, OR CONDITIONS INDICATED AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
 - "U.O.N." INDICATES: UNLESS OTHERWISE NOTED.
 - "S.S." INDICATES: STAINLESS STEEL.
 - "BM" INDICATES: BEAM.



ROOF FRAMING PLAN
1/4" = 1'-0"

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rev.	date	description	designed by: JHL	drawn by: R/W	checked by: JHL	scale: AS NOTED	date: 11/18/2015	plot date: 11/18/2015	project #: 2015-164

RESIDENTIAL BUILDING LOCATED AT
98 HAMBLET AVENUE
PORTLAND, ME
SHOWER & CLOSET ADDITION
GEN. NOTES, FOUND. & 1ST FLOOR & ROOF FRAMING PLANS

S1

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