<u>GENRAL</u> NOTES:

The notes on the drawings are not intended to specifications. in addition to general notes. See for requirements replace specifications

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.
- 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 w
- accordance
- All propietary products shall be installed in the manufacturers written instructions. Sections and details shown on any structural drawings shall be considered typical for similar conditions. with

7.

6.

4 .7

۶.

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.

ышbo

Water: Potable.

DESIGN LOADS:

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. If the allowable soil bearing capacity is less than 2000 psf, the excessive soil bearing pressure could result with foundation settlement and movement of the building structure. L&L Structural Engineering shall not be responsible and held harmless for damages resulting from foundation settlement and movement of the structure resulting from inadequate soil bearing capacity.
 Interior spread footings and exterior strip footings shall be founded on undisturbed native soil or compacted structural fill.

13.

12.

<u>-</u>

- 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 6 INCH 3 INCH NO. 4 NO. 40 NO. 200 PERCENT FINER BY WEIGHT 100 70-100 35-70 5-35 0-5
- 5. Structural fill (or 3/8" crushed stone) beneath footings and as indicated on drawings, 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 3/8" crushed stone.

Backfill both

sides

앜

foundation

simultaniously.

Underdrains shall be installed to positively drain to a discharge point away from the structure.

suitable

All applicable federal, state, and municipal regulations shall be followed, including the federal department of labor occupational safety and health act.

œ

- 10. 8. 7. 6.

Provide PVC sleeves where pipes pass through concrete walls or slabs.

I. Calcium Chloride not permited.

G. Normal range water reducing admixture: ASTM C 494 Type A containing no calcium chloride.H. Accelerating Admixture: ASTM C 494 Type C or E.

- Reinforcing bars shall conform to ASTM A615 Grade 60 deformed bars, and shall be detailed, fabricated and erected in accordance with ACl 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 ACl 318. Splices of WWF shall be 6" minimum.
- Concrete finishes:
 Walls: Grout cleaned The general contractor shall be responsible for coorshelf bondout locations, depressions & other require bondouts. Coordinate location of bondouts with Arc Mechanical & Plumbing, Electrical and equipment venecessary to properly install each specific item. Anchor bolts shall conform to ASTM A36 (UON) hot galvanized unless noted otherwise on plan. ordination of red rchitectural, endors as dipped

CONCRETE NOTES: All concrete work shall

Concrete strength at 28 days shall footings, frost walls & piers. conform to ACI 3000 318-Latest

Edition.

TIMBER

FRAMING:

Concrete shall not be placed in water All concrete shall be air entrained 4% to 6% per the specifications. on

3.

- Concrete materials:

 A. 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.
- B. 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.
- Air-Entraining Admixture: ASTM C 260.

 High-Range Water-Reducing Admixture (Super Plasticize ASTM C 494, Type F or Type G containing not more to 1% chloride ions.

 1. Fiber reinforcement shall be added and distributed prior to incorporation of Super Plasticizer. Light Weight Aggregates: ASTM C 330. Plasticizer): more than STRUCTURAL œ 5 6. Provide $\frac{3}{4}$ " thick APA rated roof sheathing fastened w/ 10d nails @ 6" o.c. at panel edges and intermediate.
 - STEEL NOTES:

- Structural steel fabrication, erection, and connection design fabrication, and erection of structural steel"—Ninth edition.
 Structural steel:

 a) Structural steel shall conform to ASTM A-36 or ASTM A992 (grade 50).
 b) Structural tubing shall conform to ASTM A-500 GR-B c) Structural pipe shall conform to ASTM A-53, TYPE E OR S

 The fabricator shall design connections for the reactions shown on the drawings or the maximum end reaction that can be produced by a laterally supported uniformly loaded beam for each given beam size and span.
 Field connections shall be bolted using 3/4" diameter ASTM A325 high strength bolts except where field welding is indicated on the drawings.
 All welding shall conform to AWS D1.1-Latest edition. Welding electrodes shall be E70XX.
 Structural Steel Primer Paint. TNEMEC 10-99 Alkyd rust inhibitive primer, 2.0 to 3.5 mils dry thickness, or approved alternate.
 Structural Steel Top Coat for steel permanently exposed to view. TNEMEC series 2 TNEMEC-GLOSS Enamel, 3.0 to 5.0 mils dry thickness, or approved alternate.

Provide Simpson H2.5 hurricane anchors where timber framing and/or trusses bear on walls or plates. Nailing not specified shall conform with IBC 2009. Provide ½" thick APA rated exterior wall sheathing fastened w/ 10d nails @ 4" o.c. at panel edges and 6" o.c. intermediate.

4.

- 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 retainage for items in contact with roofing, masonry or concrete with 0.60 PCF retainage for items in contact with earth.
 Metal connectors shall be used at all timber to timber connections or as noted on the design drawings.

3.

- All Timber framing shall be in accordance with the AITC timber construction manual or the national design specification (NDS) latest edition

(207) 767-4830 (207) 799-5432 PHONE: FAX:



ENTRY REPAIR FRONT GENERAL NOTES

THESE DRAWINGS HAVE BEEN DEVELOPED BY L&L STRUCTURAL ENGINEERING SERVICES, INC. FOR THE TITLED SET ONLY. THE DRAWINGS ARE THE SOLE PROPERTY OF L&L ENGINEERING SERVICES, INC. AND THEY SHALL NOT BE USED, LENT, COPIED OR ALTERED WITHOUT THE WRITTEN CONSENT OF L&L STRUCTURAL ENGINEERING SERVICES, INC.

126/128 DANFORTH STREET PORTLAND, MAINE

designed by: JHL	rev.	date	description	appr'd	
drawn by: JH	1	9-29-17	REVISIONS		
checked by: JHL					Iller
scale: AS NOTED					
date: 11/30/2016					Maria
plot date: 02/28/2017					•
project #: 27113B					

