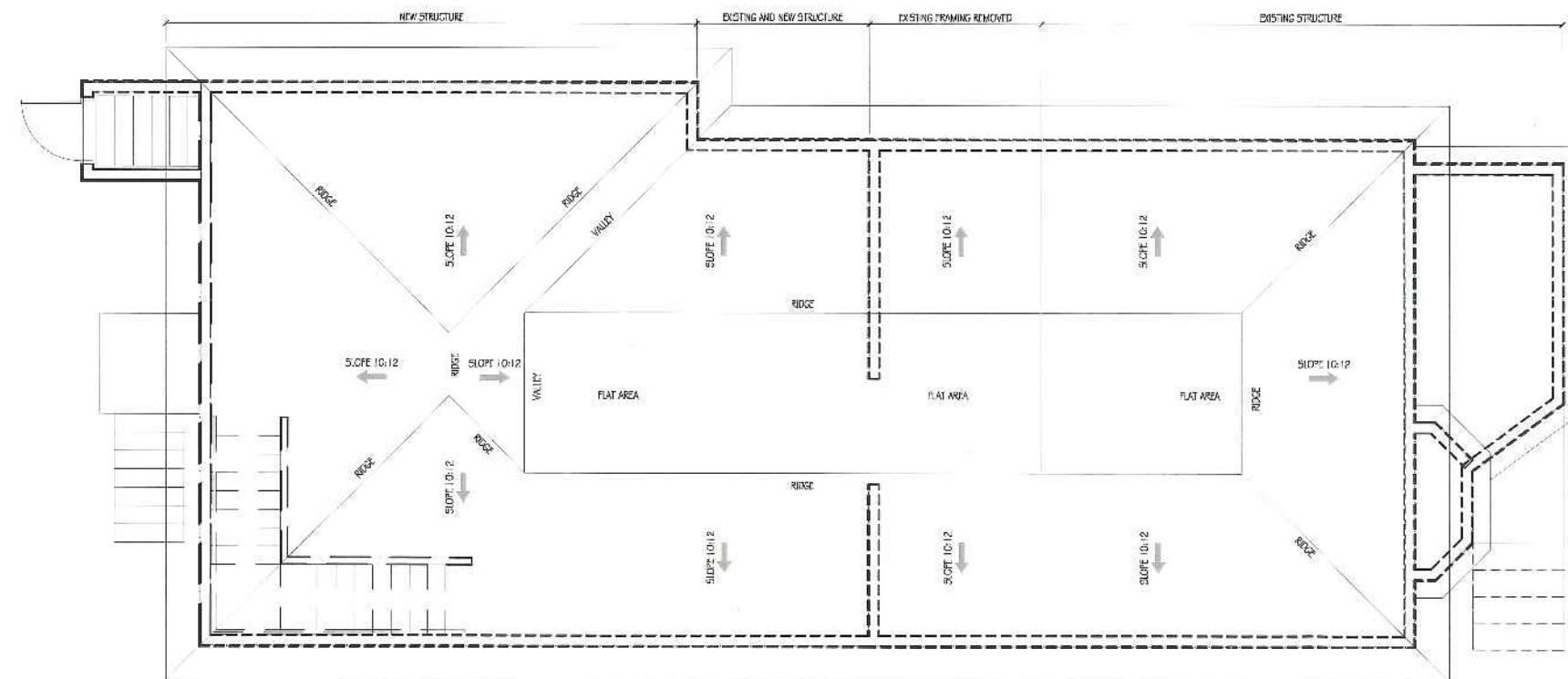


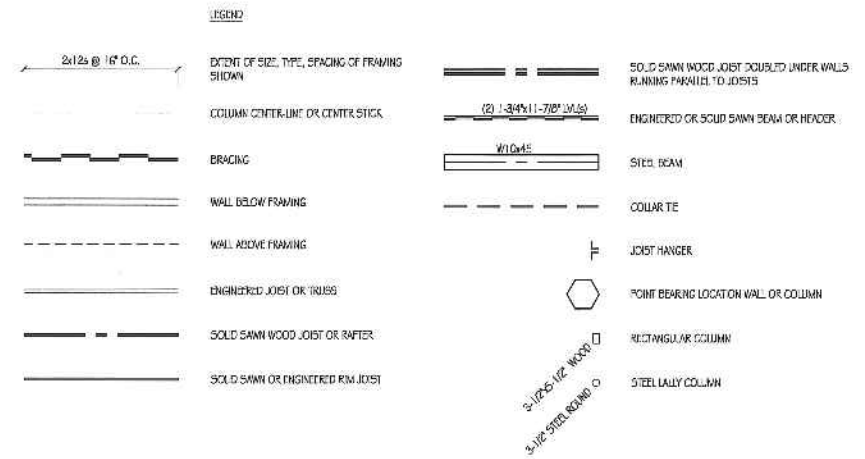
ROOF FRAMING PLAN

SCALE: 1/4" = 1'-0"



ROOF PLAN

SCALE: 1/4" = 1'-0"



STRUCTURAL DESIGN CRITERIA:

- Building Code:** This Building is Designed to Comply with the 2009 Edition of the International Building Code (IBC) 2009. The 2009 Edition of ASCE-7, "Minimum Design Loads for Buildings and Other Structures."
- Design Loads:**
 - Design Wind, Location: Knapallport, Maine
 - Wind Load (Per IBC Section 1609):
 - Basic Wind Speed V = 110 MPH
 - Wind Exposure Factor = B
 - Importance Factor = 1.0
 - Components and Cladding:
 - A. Net Design Wind Pressure for a Wall Element:
 - 1. at non-sail areas: $P_{net} = \pm 23 \text{ psf}$
 - 2. at sail areas: $P_{net} = \pm 28 \text{ psf}$
- Design Roof Snow:**
 - Live Load: 50 PSF Plus Snow Drift Loading Where Applicable (Per Section 1608)
 - Snow Exposure Factor $C_e = 1.0$
 - Show Thermal Factor $C_t = 1.1$
 - Importance Factor = 1.0
 - Dead Load = 12 PSF
- Design Seismic:**
 - Occupancy Category = II
 - Soil Site Class D'
 - ICD = 1.0
 - SRS(0) = .326
 - SRS(1) = 1.13
 - Seismic Design Category = B
 - Basic Seismic Force Resisting System = Light Framed Wall Systems Using Shear Walls.
- Floor Loads:**
 - 1st Floor Area = 40 PSF
 - 2nd Floor Area = 30 PSF
- Dead:**
 - Floor = 12 PSF

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 AFFICED PART OF THE WORK.

THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE DESIGN PROCEDURES AND SEQUENCE TO ENSURE SAFETY OF THE STRUCTURE AND PERSONNEL DURING CONSTRUCTION. THIS INCLUDES THE ADDITION OF THE NECESSARY SHORING, SHEETING, TEMPORARY BRACING, CLIPS OR TIEDOWNS. 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.

IT IS THE OWNER'S SOLE RESPONSIBILITY TO EMPLOY ONE OR MORE SPECIAL INSPECTORS (IF REQUIRED) TO PROVIDE INSPECTIONS IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS OF IBC 2009.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS, SHORING AND TEMPORARY BRACING DURING THE PROGRESS OF THE PROJECT.

ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE RECOMMENDATIONS AND REQUIREMENTS CONTAINED IN THE MANUAL OF STEEL CONSTRUCTION, ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN INCL. INCLUDING AISC CODE OF STANDARD PRACTICE FOR STRUCTURAL STEEL BUILDINGS AND BRIDGES, AND STRUCTURAL STEEL WELDING CODE - STEEL, AISC 360, LATEST EDITION.

STRUCTURAL STEEL ROLLED SHAPES, PLATES AND BARS SHALL CONFORM TO THE FOLLOWING:

- A36 - A36, GRADE 50, ALL WIDE FLANGE SECTIONS, PL-50
- A572 - A572, GRADE 50, ALL WIDE FLANGE SECTIONS, PL-50
- A572 - A572, GRADE 50, ALL WIDE FLANGE SECTIONS, PL-50
- A572 - A572, GRADE 50, ALL WIDE FLANGE SECTIONS, PL-50

First Floor Header Schedule

Opening Size	Location	Girder Members	Number of Members	Number of Jack Studs
0' to 3'-6"	Exterior Wall	2x6s	2	2
3'-6" to 4'-0"	Exterior Wall	2x8s	2	2
4'-0" to 5'-6"	Exterior Wall	2x10s	2	2
5'-6" to 6'-0"	Exterior Wall	2x12s	2	2
6'-0" to 8'-0"	Exterior Wall	2x12s	3	2
0' to 3'-6"	Interior Wall	2x6s	2	2
3'-6" to 5'-0"	Interior Wall	2x8s	2	2
5'-0" to 6'-0"	Interior Wall	2x10s	2	2
6'-0" to 7'-0"	Interior Wall	2x12s	2	2
7'-0" to 8'-0"	Interior Wall	2x12s	3	2

Second Floor Header Schedule

Opening Size	Location	Girder Members	Number of Members	Number of Jack Studs
0' to 4'-0"	Exterior Wall	2x6s	2	2
4'-0" to 5'-0"	Exterior Wall	2x8s	2	2
5'-0" to 6'-0"	Exterior Wall	2x10s	2	2
6'-0" to 7'-0"	Exterior Wall	2x12s	2	2
7'-0" to 8'-0"	Exterior Wall	2x12s	3	2
0' to 3'-6"	Interior Wall	2x6s	2	2
3'-6" to 5'-0"	Interior Wall	2x8s	2	2
5'-0" to 6'-0"	Interior Wall	2x10s	2	2
6'-0" to 7'-0"	Interior Wall	2x12s	2	2
7'-0" to 8'-0"	Interior Wall	2x12s	3	2

NOTE:

- Contractor/owner responsible for securing all necessary permits.
- Contractor/owner will comply with all applicable codes and ordinances.
- Contractor/owner to verify all site grades and dimensions.

BY	JJO
DATE	09-24-15
REMARKS	ISSUED FOR PERMIT
NO.	A
DATE	09-24-15
CODE	IRC 2006
TOWN	PORTLAND
DATE	09-24-15
SCALE	As Noted
DRAWN	JJO
TITLE	ROOF & ROOF FRAMING PLANS
FILE	
SHEET	A1-05