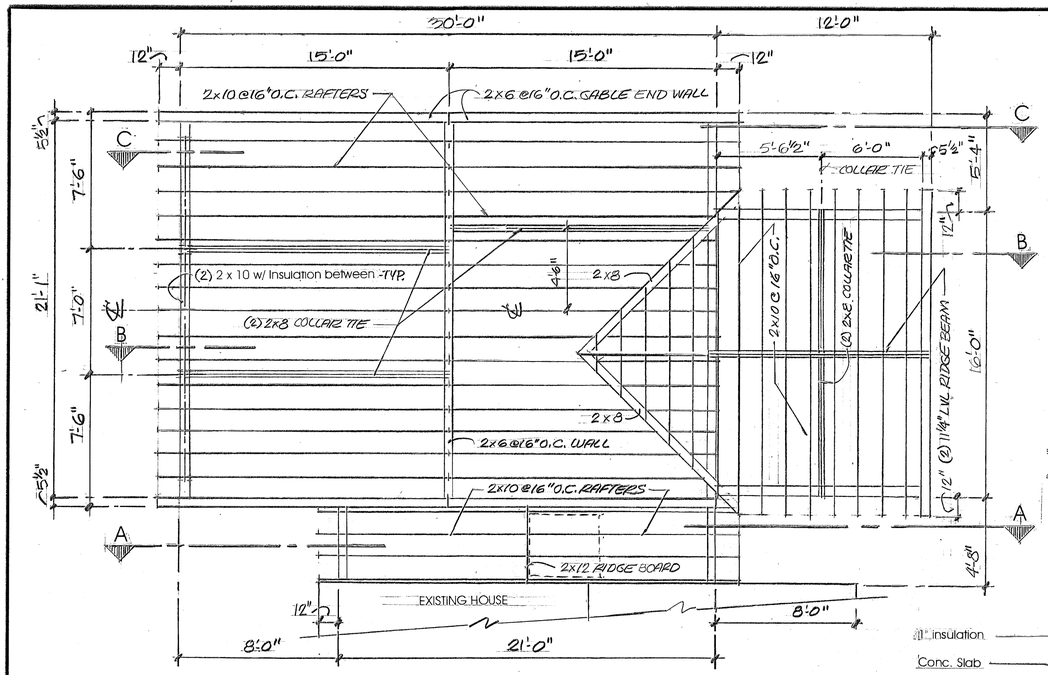
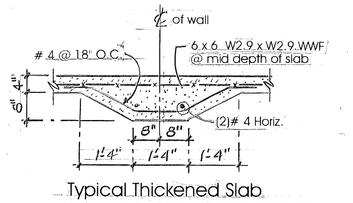


Roof Framing Plan

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

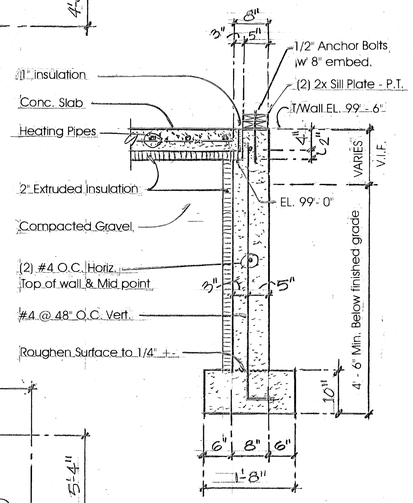
GENERAL STRUCTURAL NOTES:

1. DESIGN CODE: 2009 IBC/IRC/MUSEC.
2. ROOF DESIGN LOADS:
   GROUND SNOW LOAD, p_g = 60 PSF
   MAIN ROOF SNOW LOAD, p_f = 42 PSF BALANCED
   SNOW EXPOSURE FACTOR C_e = 1.0
   SNOW IMPORTANCE FACTOR I_s = 1.0
   ROOF THERMAL FACTOR C_t = 1.0,
3. WIND LOADS:
   BASIC WIND SPEED: 100 MPH
   WIND LOAD IMPORTANCE FACTOR: I.0
   EXPOSURE B
   INTERNAL PRESSURE COEFFICIENT (GCpi = +/- 0.25
   MAIN WIND FORCE RESISTING SYSTEM WIND LOADS: ASCE 7-05, METHOD 1
   COMPONENT AND CLADDING WIND LOADS: USE ASCE 7-05, FIGURE 6-3
   METHOD 1 WIND PRESSURES FOR 100 MPH
   BASIC WIND SPEED, λ = 1.0
4. SEISMIC LOADS:
   SEISMIC IMPORTANCE FACTOR: 1.0
   OCCUPANCY CATEGORY: IV
   S_s = 0.33 S_1=0.08
   SITE CLASS: D
   S_{DS}=0.34 S_{D1}=0.13
   SEISMIC DESIGN CATEGORY: D
   SEISMIC FORCE RESISTING SYSTEM: BEARING WALL SYSTEM WITH WOOD STRUCTURAL PANELS FOR SHEAR RESISTANCE
   R = 6½
   ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE
5. U.N.O. = UNLESS NOTED OTHERWISE.
   N.T.S. = NOT TO SCALE
6. CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ENGINEER ANY CONDITIONS DIFFERENT FROM THOSE SHOWN ON THE DRAWINGS AND SHALL BRING TO THE ATTENTION OF THE ENGINEER ANY CONDITIONS THAT PREVENT CONTRACTOR'S COMPLETION OF THE WORK AS SHOWN ON THE DRAWINGS.



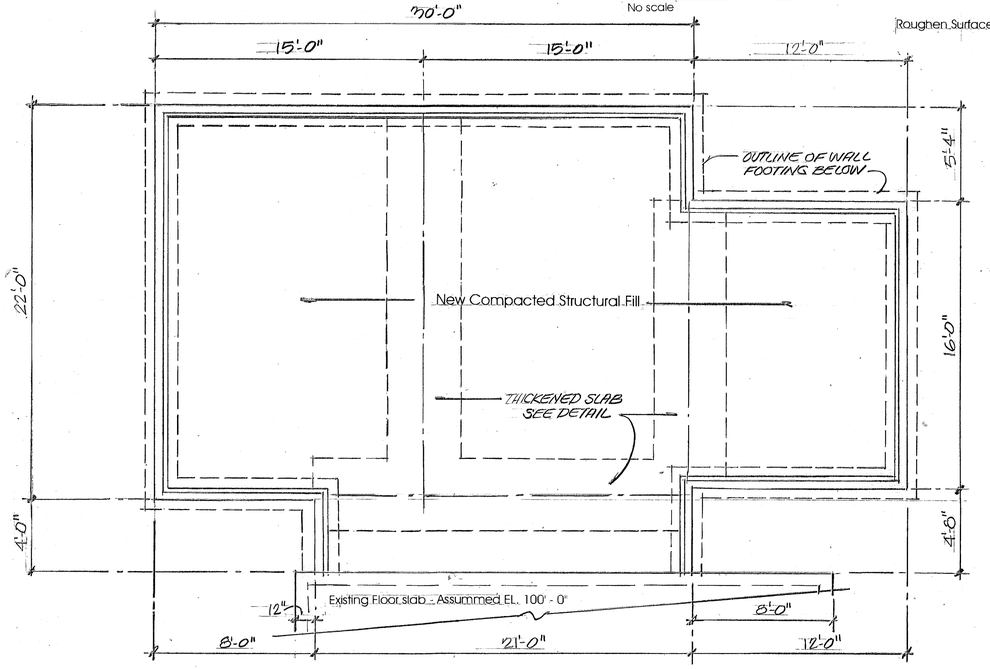
Typical Thickened Slab

No scale



Typical Concrete Wall Section

No scale



Foundation Plan

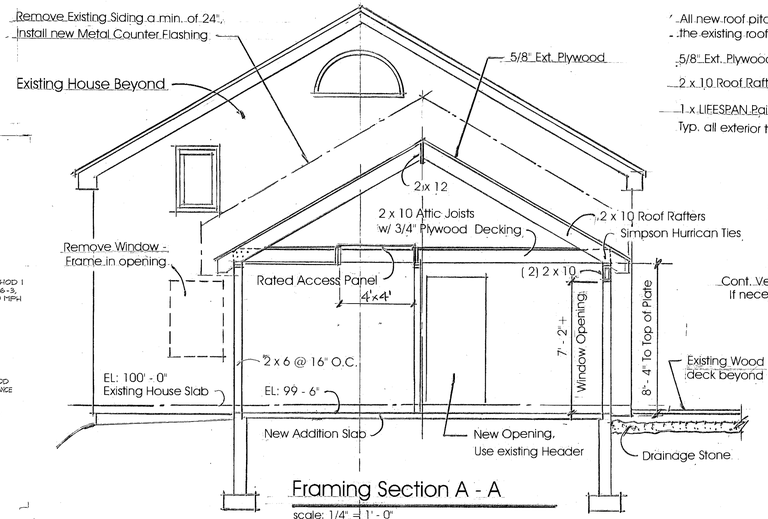
scale: 1/4" = 1' - 0"

CONCRETE NOTES:

1. DESIGN CODE: ACI 318-08.
2. MINIMUM 28 DAY COMPRESSIVE STRENGTH: 3000 PSI
   MINIMUM CEMENT CONTENT FOR SLABS: 564 LBS/CY
   MINIMUM CEMENT CONTENT FOR OTHER CONCRETE: 470 LBS/CY
3. REINFORCEMENT: GRADE 60, ASTM A615
   WELDED WIRE FABRIC: ASTM A185, FLAT SHEETS ONLY.
4. MINIMUM CONCRETE COVER:
   3" FOR CONCRETE CAST AGAINST SOIL.
   1½" FOR TIES
   2" FOR OTHER CONCRETE UNLESS SHOWN OTHERWISE.
5. PROVIDE CONTROL JOINTS OR CONSTRUCTION JOINTS IN FOUNDATION WALLS AT 30' O.C. MAXIMUM SPACING.
6. SPLICE LENGTHS (UNLESS SHOWN OTHERWISE)
   HORIZONTAL BARS IN WALLS, LONGITUDINAL BARS IN FOOTINGS:
   #4 30"
   OTHER BARS:
   #4 25"
   WELDED WIRE FABRIC: 6"
7. COORDINATE PENETRATIONS THROUGH CONCRETE WITH ARCHITECTURAL, CIVIL, MECHANICAL, AND ELECTRICAL DRAWINGS.

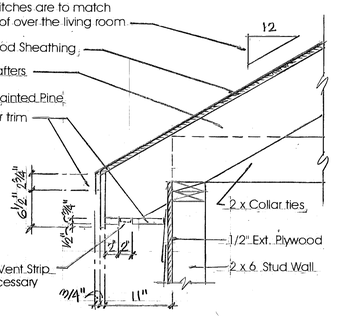
FOUNDATION NOTES:

1. DESIGN BEARING CAPACITY: 2.0 KSF (ASSUMED)
2. REMOVE TOPSOIL, ORGANIC MATERIAL AND OTHER UNSUITABLE MATERIALS UNDER PROPOSED BUILDING AND WITHIN 10' OF FOUNDATION WALLS
3. PLACE FOOTINGS ON SUITABLE UNDISTURBED NATURALLY DEPOSITED SOIL OR ON COMPACTED STRUCTURAL FILL. NOTIFY ENGINEER IF UNSUITABLE MATERIALS ARE ENCOUNTERED AT FOOTING OR SLAB SUBGRADE. OVER EXCAVATE AREAS WHERE UNSUITABLE MATERIAL IS ENCOUNTERED UNTIL UNDISTURBED NATURALLY DEPOSITED INORGANIC MATERIAL IS REACHED. REPLACE EXCAVATED MATERIAL TO FOOTING SUBGRADE ELEV. WITH COMPACTED STRUCTURAL FILL.
4. UNDER FLOOR SLABS, FILL OVER EXCAVATED AREAS WITH COMPACTED STRUCTURAL FILL. PROVIDE MIN. 6" OF COMPACTED STRUCTURAL FILL UNDER SLAB.
5. UNDER SLABS (AND FOOTINGS IF REQUIRED) COMPACT MATERIAL TO 95% OF MAX. DENSITY DETERMINED BY ASTM D1557, MODIFIED.
6. BACKFILL BOTH SIDES OF FOUNDATION WALLS AT THE SAME TIME.



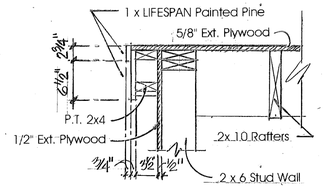
Framing Section A - A

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



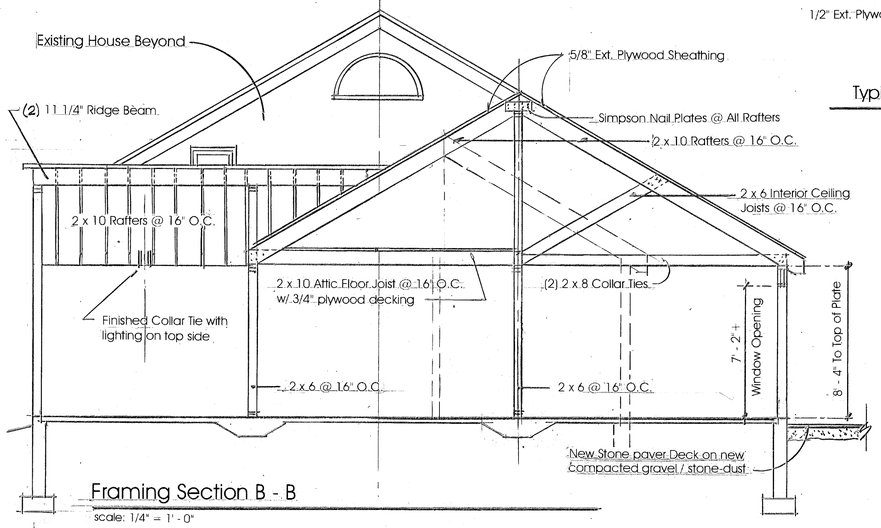
Typical New Roof Edge Detail

No scale



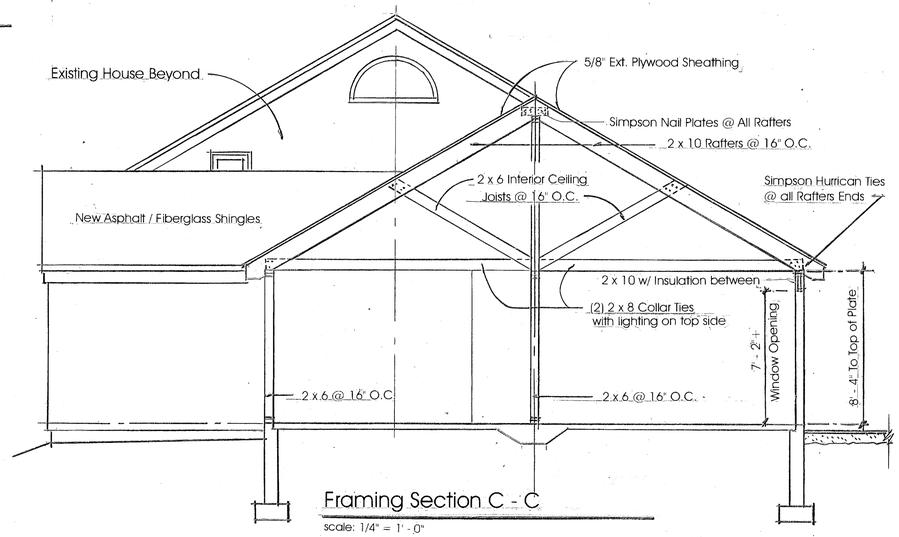
Typical New Roof Rake Detail

No scale



Framing Section B - B

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



Framing Section C - C

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

brian e. duffy associates
architecture to build by
65 falmouth road
falmouth, me 04105
tel: 207-838-9500

REGISTERED ARCHITECT BRIAN E. DUFFY No.1024 STATE OF MAINE

NEW ADDITION
for:
John and Beth DiMillo
21 Redlon Road
Portland, Maine 04012

date : June 13, 2017

drawn by : B. E. DUFFY

scale: AS NOTED

sheet title : FOUNDATION / ROOF FRAMING PLANS & SECTIONS / DETAILS

sheet A-3

OF 3