

## McCain RESIDENCE 45 Summer St. Portland

Maine 04102

**PROPERTY** 

유

ARCHITECTURAL DRAFTING SERVICES 844 ROOSEVELT TRAIL, WINDHAM, MAINE 04062 P. 207-878-8511 C. 207-415-5065

Drawing List

Cover Sheet/General Notes Building Elevations Floor Plans Floor Plans Sections and Details

Basement Garage First Floor Second Floor Third Floor **Building Information** 526 528 526 867

Building Height 30'-Ġ,

Requirements

R101.2 Single Residence

R301.2.3 Snow Loads
The ground and roof snow load
60#/sf&42#/sf. for this reg

on On

<u>v</u>.

R301.2.4
The site of floodplain floodplain Construction of this building is not located ⊇.

Ω

<u>R301.</u> The t loads building has t been ( designed to support the

ive

R310 Everv R301.6 Roof Load
This building has been designed snow loads of 42#/sf R310 Emergency Escape and Rescue Every living room and sleeping room residence has been designed with an escape window or door as required. to support Openings in this emergence ency the

R311 Means of Egress
The means of egress for this residence have been designed to meet the requirements of section

R311.2.2 Under Stair P
The accessible space ksheathed with min  $\frac{1}{2}$ " <u>Protection</u> beneath the stairs will be GWB.

R311.3 Hallways Hallways area a min. 36" wide

R311.5 Stairways
Stairways are a min. 36" wide
Headroom is a min. 6'-8"
Riser heights are a max. 7-3/4"
Treads are a min. 10" wide
The landing width is at least as wide as the stairway and is a min. 36" wide in the direction of travel.

R311.3.6 Handrails
Handrails will be installed on a least one wall of each stairway and shall be 34" to 38" high as measured above the nosing.

R312 Guards
Guards at porches, open sides of balconies shall be 42" high and n the rail are more than 4" R502 Wood Floor and Roof Trusses By: Aroostook trusses or Similar л 0 stairs and no opening i

⊒.

this

R302.5.1 Opening Protection
The doors opening between the garage and minute, fire-rated steel doors, self closing.

R308 Safety Glazing
Each pane of glazing installed in hazardous locations as defined in Section R308.4 will have a
manufacturer's designation specifying who applied the designation, designating the type of glas
and the safety glazing standard with which it complies.

direction

R905 Roof Covering
Roof will be covered with Duro-Last thermoplastic vinyl roof membrane or equivalent in accordance with provisions of this section and the manufacturer's installation instructions

Fire Sprinkler An automatic residential fire sprinkler system will be installed in the house. A state-licensed sprinkler contractor, with permitting through the Office of State Fire Marshall, will installed a system that meets the National Fire Protection Association 13D standard.

R602 Wood Fastening Refer to table R602.3

wood

requirem

R603 Headers Refer to table R603.6 headers

for

the required

size

<u>o</u>

opening

Heating System
The house will have either a modulating condensing boiler, direct vent natural gas, or two minsplit electric heat pumps, with a roof-mounted photovoltaic system of 20 panels, which would add 3 psf dead load.

and (a) the entry hall and (b) the storage will be

R403.1.6 Anchor Bolts
All pressure treated sill plates will have 1/2" anchor bolts spaced a maximum of 6' on center, extending at least 7" into concrete. There will be a minimum of two bolts per plate section, with one bolt not more than 12" or less than seven bolt diameters from each end of the plate section.

R403, R405, R506 Concrete Foundations.

All exterior walls will be supported on continuous solid concrete footings of sufficient design to accommodate all loads according to Section R301, and to transmit the resulting loads to the soil within the limitations as determined from the character of the soil. Footings will be supported on undisturbed natural soils or engineered fill. Foundation walls will be waterproofed from the top of the footing to the finished grade. Washed gravel or crushed stone and perforated pipe will be installed at the area to be protected, and will be discharge by gravity into an approved drainage system. The gravel will extend 12" beyond the outside edge of the footing and 6" above the top of the footing, covered with an approved filter membrane material. The foundation walls will be waterproofed from the top of the footing to the finished grade with a 60 mil solvent-free liquidapplied synthetic rubber.

R502.2 Deck Construction
The rear 4'x8' balcony will be constructed in accordance with provisions of Section R502. Based on the recommendations of Foard Panel the balcony will be freestanding and independent of the house itself.

Chapter 11 Energy Efficiency
Roofs shall have a min. rating of R-38
Exterior walls shall have a min. rating o
Floors above garage spaces shall have c
R-21(R-54)
Floors above basement spaces shall have of R-21
Windows shall have a U-facor of 0.35 (1) shall have a f R-38 (R60 , rating of R-21 have a min.

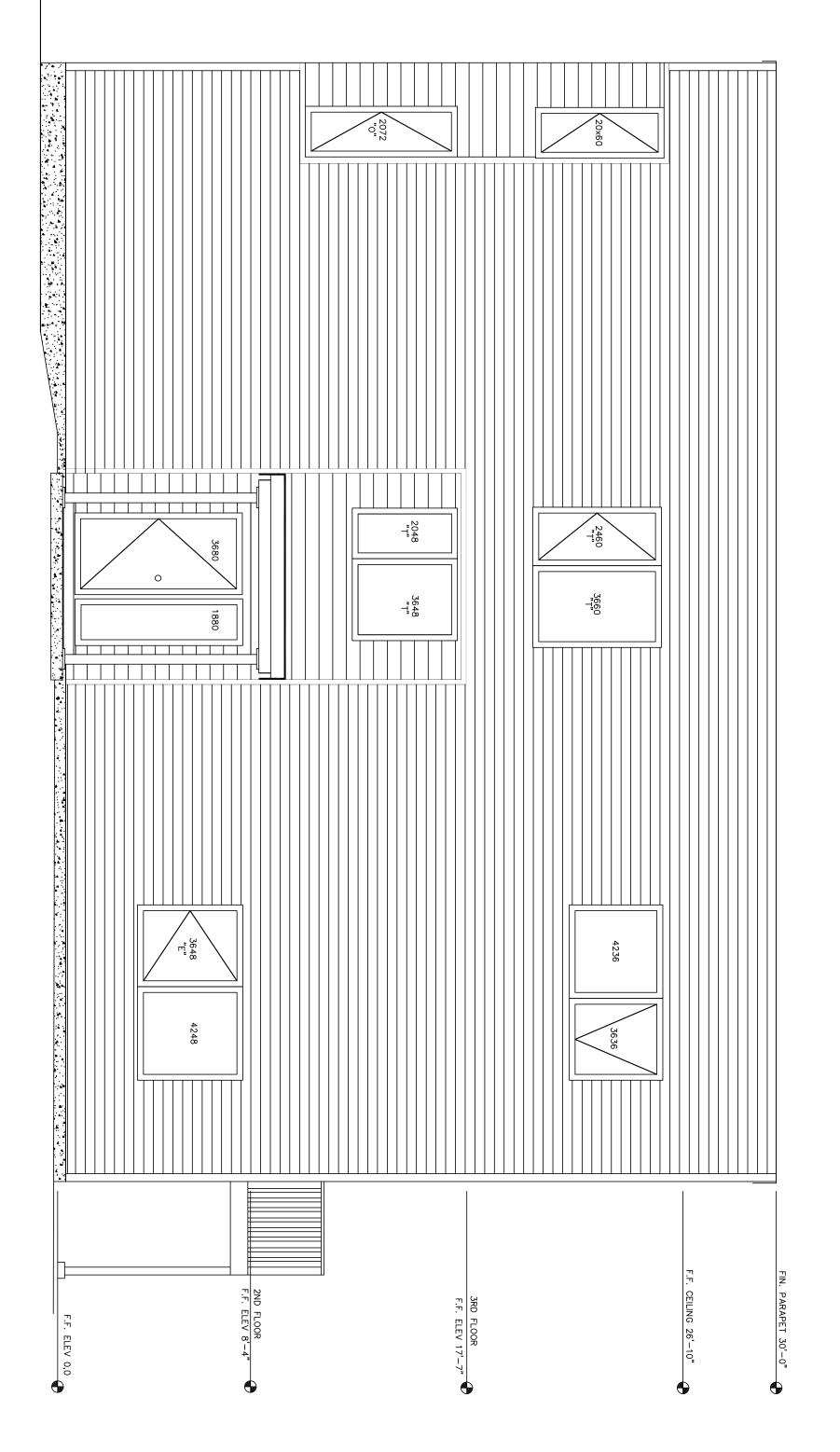
R313 Smoke Alarms
Smoke alarms shall be installed:
in each sleeping room
outside each sleeping area
On each additional story, including th
Carbon Monoxide monitors shall be in
area giving access to bedrooms.
Alarms shall be installed per NFPA 7:

the basement installed in ea

R315 Flame Spread and Smoke Density
Finishes shall have a flame spread classification
greater than 200 and a smoke—developed index
greater than 450. 72 of no

. ⊒. 0 ACTUAL) -21(R-34) n. rating of rating

of 0.35 (0.21)



The house will use structural insulated panels (SIPs) for roof and exterior walls, manufactured and engineered by Foard Panel of West Chesterfield, NH, or a comparable manufacturer. For applications falling within the parameters of the IRC Section R613, the stamp of a licensed engineer is not required for code approval in jurisdictions that have adopted the IRC. The acceptance of SIPs into the IRC recognizes structural insulated panels as equal to other building systems in the Residential Code. All floors will be designed and constructed in accordance with R503.2.1.1 sheathing requirements and R602.3 fastener requirements. Roof and exterior wall construction design, construction and fasteners will follow IRC R613 and other guidelines specific to SIPs.

NOTE:

CODE REVS: DATE: 04-10-13 DESIGNED: SSA SCALE: AS NOTED DRAWN: SSA TOWN: Portland

SHEET: A-1

FILE:

COVER SHEET GENERAL NOTES

McCain Residence 45 Summer St. Portland, Maine 04102