ROOF
-Ashphalt Shingles (30-Year, F.G. Backing, raised profile) OR
-ZINC roofing (see plan for locations)
-Roofing Felt (as in RCABC Roofing Practices Manual)
-Eaves Protection: Self-adhesive Rubberized Ashphalt Sheet Material Type S Smooth Surface Roll Roofing or 2 Plies of No. 15 Ashphalt Felt lapped & cemented together with Lap Cement.
-1/2" Plywood Sheathing with H clips
-Pre-Engineered Roof Trusses
-R-50 Fibreglass Batt Insulation
-6-mil Polyethylene Vapour Barrier
-1/2" Gypsum Wall Board

FLAT ROOFS, DECKS, (Over Interior Space & Roofs over Vaulted Ceilings)
(-1½" Concrete Topping - on decks only)
-Fibreglass or torch-on Flooring
-5/8" T&G Plywood Screwed to strapping,
-2x2 cross strapping @ 16" (for venting @ 1/300) tapered as shims for slope where needed
-Floor Joists or Rafters (See structural plans)
-R-28 F.G. Batt Insulation (use R-50 insulation if the roof thickness + venting allows)
-6-mil polyerhylene vapour barrier
-1/2" Gypsum Wall Board

ALTERNATIVE FLAT ROOFS, DECKS, (Over Interior Space & Roofs over Vaulted Ceilings) (Please See Consultant's letters and Details)
(-1½" Concrete Topping - on decks only)
-Fibreglass or torch-on Flooring
-5/8" T&G Plywood Screwed to strapping,
-Floor Joists or Rafters (See structural)
-Spray Foam Insulation & Vapour barrier
-1/2" Gypsum Wall Board

INTERIOR WALL (Typical)
-1/2" Gypsum Wall Board
-2X4 Stud Framing (2x6 where noted)
-R-12 Fibreglass Batt Insulation (sound)
-1/2" Gypsum Wall Board

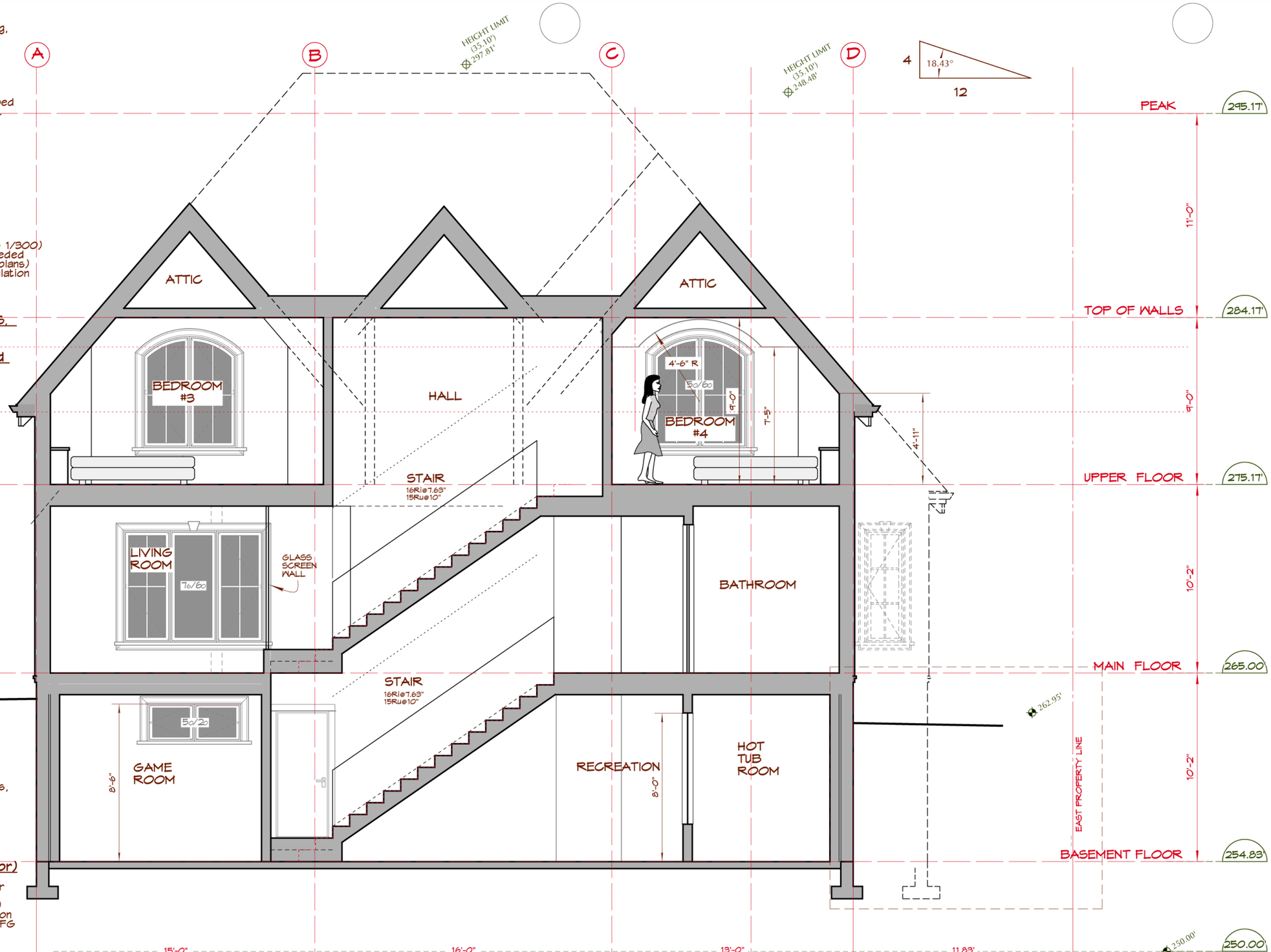
EXTERIOR WALL - Rain Screen
-2" stone with metal ties back to framing
OR
-Stucco - 3/4" rock dash on -Wire lath with lath board/air spacer (rainscreen)
-Air space (Keene Dri-wall or equal), vent top & bottom
-Building Wrap (tyvek)
-1/2" Plywood Sheathing
-double wall of 2X4 Stud Framing, 1" space between on 2x 8" plates (block out to 8"), top and bottom
-R-28 Fibreglass Batt Insulation
-6-mil Polyethylene Vapour Barrier
OR
-2x6 studs with Spray Foam Insulation at locations shown
AT THESE LOCATIONS, DO NOT USE POLY. VAPOUR BARRIER
-1/2" Gypsum Wall Board

UPPER FLOORS
-Finish Flooring
-1.5" Concrete Topping w/ infloor radiant heating
-5/8" T&G Plywood,continuous across party walls, glued & screwed to Joists,
-Floor Joists
-8½" (R-28) F.G. Batt Insulation (Sound)
-Use spray foam insulation where floor come against exterior wall
-1/2" Gypsum Wall Board

FOUNDATION WALL (Heated Interior)
-Dimple Board Against outside of wall
-Waterproof concrete sealer on Exterior Side to 4" above Grade
-8" Concrete Wall (see Structural Notes)
-2" (R-10) extruded polystyrene insulation
-2x4 studs @ 16" furring wall with ZR-14 FG insulation
-½" Gypsum Wall Board

SLAB ON GRADE
-Finish Flooring
-Slab on Grade: 4" with 8"X8" welded wire mesh (See Structural Notes)
-6-mil Polyethylene Vapour Barrier
-R-12 (2.5" min.) Rigid Insulation under entire heated slab
-6" compacted sand (to 95% Proctor density)
-Compacted Granular Fill (to 95% Proctor density)

SLAB ON GRADE - (Under Un-heated Space - Garage only)
-Slab on Grade: 4" with 8"X8" welded wire mesh (See Structural Notes)
-6-mil polyethylene vapour barrier
-6" compacted sand (to 95" Proctor density)
-Compacted Granular Fill (to 95" Proctor density)



GREEN HOMES:
WALL INSULATION: SEE DETAILS ON A-6.1

WINDOW PERFORMANCE:
ALL WINDOWS TO BE MAXIMUM USI 1.4

SKYLIGHTS TO BE MAXIMUM USI 2.4

ELECTRICAL NOTE:
ALL LIGHTING: 40% OF LIGHTING FIXTURES TO BE HARD WIRED FOR NON-INCANDESCENT NON-HALOGEN LIGHTING.
WARNING: MOST "HIGH-EFFICIENCY" BULBS CONTAIN DANGEROUS SUBSTANCES SUCH AS MERCURY VAPOUR. WE DO NOT RECOMMEND THEIR USE

ENERGY-USE DISPLAY UNIT TO BE LOCATED IN EASILY-VIEWED LOCATION ON MAIN FLOOR

ALL NATURAL GAS FIREPLACES TO BE ELECTRIC IGNITION, DIRECT VENT

WATER HEATERS TO BE MIN. 78% EFFICIENT
WATER TANKS TO BE INSULATED RSI 1.75 (R-10),
HOT WATER PIPES TO BE INSULATED RSI 0.35 FOR 10' FROM WATER TANK AND LAST 3.29'.
FOR RE-CIRCULATING SYSTEMS, ALL PIPES TO BE WRAPPED TO RSI 0.35
SEISMIC STRAPS FOR WATER TANK.

FURNACE/BOILER TO BE MINIMUM 92% EFFICIENT AFUE NO SIDE VENTING

ALL TOILETS TO BE "DUAL FLUSH" (BETTER PROVIDE A TOILET-CLEANING BRUSH, BECAUSE THESE THINGS DON'T WORK).

HEAT RECOVERY VENTILATOR (HRV) TO BE PROVIDED, WITH MINIMUM 65% HEAT RECOVERY IN CONDITIONED SPACE, EASY FILTER MAINTENANCE

PRE-PIPE FOR ROOF-MOUNTED SOLAR ENERGY UNIT TO BE PROVIDED FROM ROOF TO HEATER UNIT
2- 50mm DIAM. CONDUITS

PRE-WIRE OUTLET BOX FOR ELECTRIC VEHICLE CHARGE (IN GARAGE).

SECTION A
Scale (at full size): 1/4" = 1'-0"
0 Feet 4 8 12

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DRAWING: Malcolm McSporran
DATE: 27 OCTOBER, 2015
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A 3.1