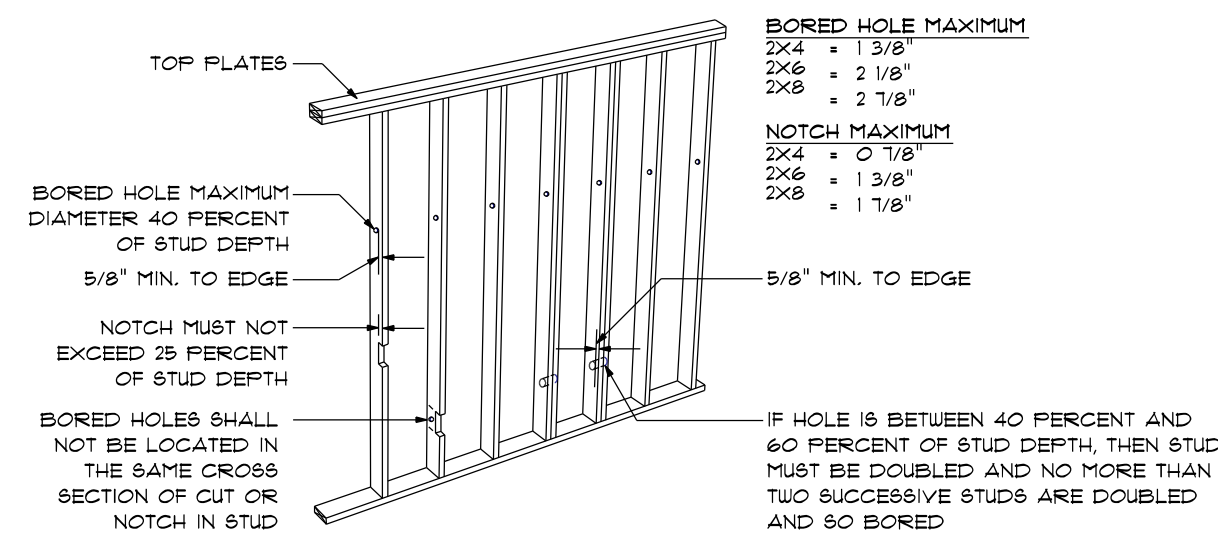


# ENERGY CODE SUMMARY

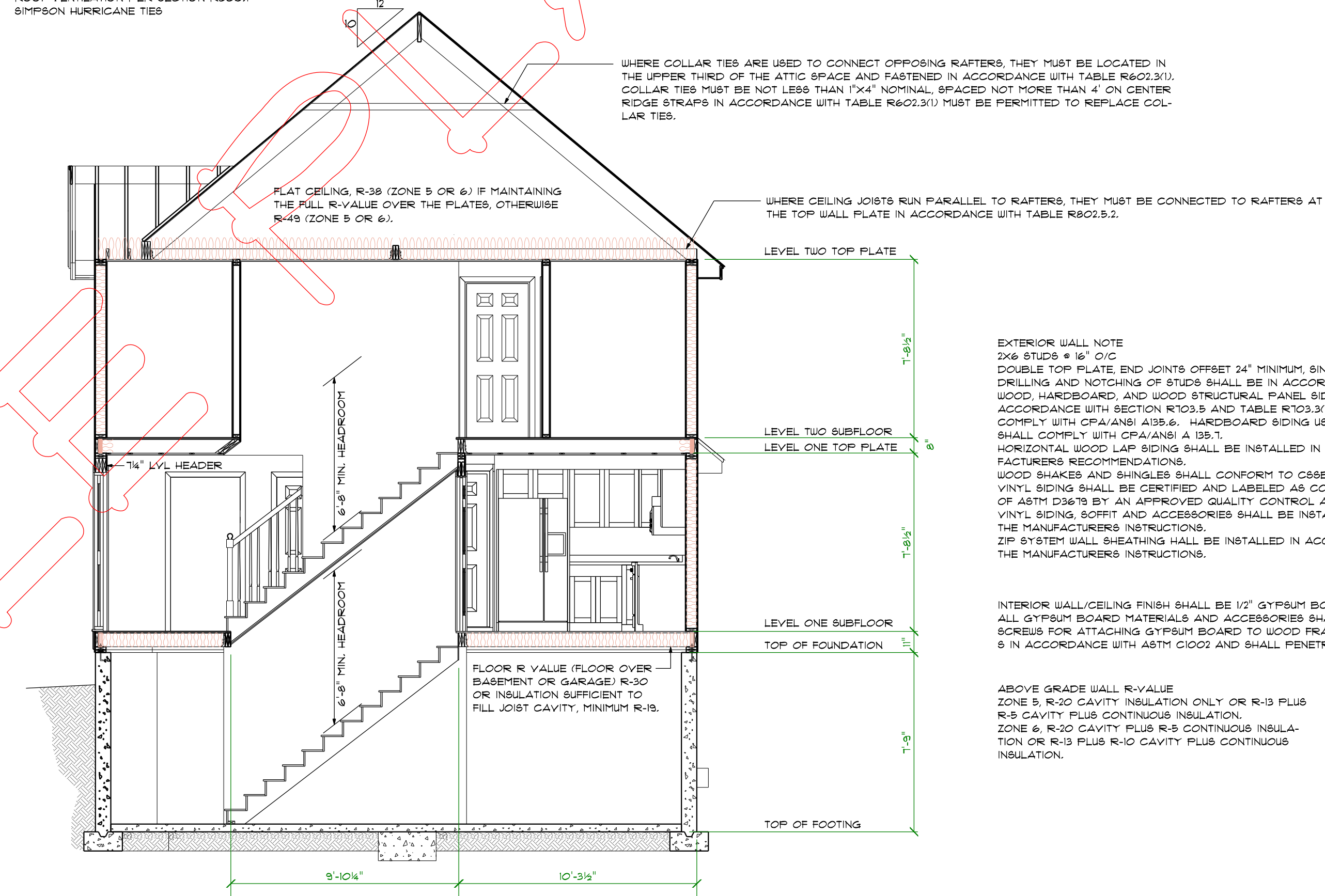
- THE FOLLOWING LIST IS INTENDED AS A GENERAL SUMMARY OF ENERGY RELATED REQUIREMENTS. REFER TO SECTION N101.
- ZONE 5 INCLUDES CHEBIRE, HILLSBOROUGH, ROCKINGHAM AND STRAFFORD COUNTIES.
- ZONE 6 ALL OTHER NH COUNTIES AND TOWN OF DURHAM.
- WINDOW U FACTOR (LOWER U IS BETTER)
  - U-30 (MAXIMUM)
  - U-35 (IF LOG WALLS IN ZONE 5)
  - U-30 (IF LOG WALLS IN ZONE 6)
  - U-45 (THERMALLY ISOLATED SUNROOMS ONLY)
- SKYLIGHTS
  - U-55 (OR LESS)
  - U-70 (THERMALLY ISOLATED SUNROOMS ONLY)
- FLAT CEILING, R-38 (ZONE 5 OR 6) IF MAINTAINING THE FULL R-VALUE OVER THE PLATES, OTHERWISE R-49 (ZONE 5 OR 6).
- SLOPED OR CATHEDRAL CEILING, R-30 (ZONE 5 + 6) IF LESS THAN 300 SQ. FT. OR 20% OF TOTAL CEILING AREA.
- ABOVE GRADE WALL R-VALUE
  - ZONE 5, R-20 CAVITY INSULATION ONLY OR R-13 PLUS R-5 CAVITY PLUS CONTINUOUS INSULATION.
  - ZONE 6, R-20 CAVITY PLUS R-5 CONTINUOUS INSULATION OR R-13 PLUS R-10 CAVITY PLUS CONTINUOUS INSULATION.
- DOOR U-VALUE
  - U-30 MAXIMUM
- FLOOR R VALUE (FLOOR OVER BASEMENT OR GARAGE)
  - R-30 OR INSULATION SUFFICIENT TO FILL JOIST CAVITY, MINIMUM R-18.
- IF CONDITIONING THE BASEMENT YOU MUST INSULATE BASEMENT WALLS. FOR BOTH ZONES 5 AND 6, R-19 INSULATION OR R-19 CONTINUOUS INSULATION. IF NOT, YOU MAY INSULATE EITHER FLOOR OR BASEMENT WALLS AND SLAB EDGE.
- SLAB EDGE R VALUE
  - R-10 2' (ZONE 5), 4' (ZONE 6), ADD R-5 IF THE SLAB IS HEATED.
- A BLOWER DOOR TEST IS REQUIRED. THE TEST MUST DEMONSTRATE AN AIR EXCHANGE RATE OF THREE AIR CHANGES PER HOUR (ACH) OR LESS @ 50 PA.
- THE BUILDING THERMAL ENVELOPE SHALL BE CONSTRUCTED TO LIMIT AIR LEAKAGE (SECTION N102.4) IN ACCORDANCE WITH THE REQUIREMENTS OF SECTIONS N102.4.1 THROUGH N102.4.4. THE BUILDING THERMAL ENVELOPE MUST BE DURABLY SEALED TO LIMIT INFILTRATION. SEE TABLE N102.4.1 FOR A LIST OF THERMAL ENVELOPE ELEMENTS AND INSTALLATION CRITERIA.
- NEW WOOD-BURNING FIREPLACES SHALL HAVE TIGHT-FITTING FLUE DAMPERS OR DOORS AND OUTSIDE COMBUSTION AIR. (SECTION N102.4.2).
- RECESSED LIGHTS IN THE THERMAL ENVELOPE MUST BE TYPE IC RATED AND LABELED AS MEETING ASTM E 283 AND SEALED WITH A GASKET OR CAULK BETWEEN THE HOUSING AND THE INTERIOR WALL OR CEILING COVERING. (SECTION N102.4.5)
- NOT LESS THAN 90% OF THE LAMPS IN PERMANENTLY INSTALLED LIGHT FIXTURES SHALL BE HIGH-EFFICACY LAMPS. (SECTION N104.1)
- MATERIALS, SYSTEMS AND EQUIPMENT SHALL BE IDENTIFIED IN A MANNER THAT WILL ALLOW A DETERMINATION OF CODE COMPLIANCE. MANUFACTURER MANUALS FOR ALL INSTALLED HEATING, COOLING AND SERVICE WATER HEATING EQUIPMENT MUST BE PROVIDED. (SECTION N101.5 AND N101.6)
- FULL-DOWN ATTIC STAIRS, ATTIC HATCH, AND KNEEWALL DOORS SHOULD BE INSULATED TO A LEVEL EQUAL TO THE SURROUNDING SURFACES AND TIGHTLY SEALED AND WEATHERSTRIPPED AT THE OPENING. (SECTION N102.2.4)
- ALL DOORS LEADING FROM A CONDITIONED SPACE INTO AN UNCONDITIONED ATTIC OR ENCLOSED ATTIC OR BASEMENT STAIRWELL SHOULD BE INSULATED AND WEATER-STRIPPED EXTERIOR RATED DOORS MEETING U-FACTOR REQUIREMENT. ONE DOOR IS EXEMPT. (SECTION N102.3.4)
- SUPPLY AND RETURN DUCTS IN ATTICS MUST BE INSULATED TO AT LEAST R-8 WHERE 3" DIAMETER OR GREATER AND NOT LESS THAN R-6 FOR DUCTS SMALLER THAN 3" IN DIAMETER. SUPPLY AND RETURN DUCTS IN OTHER PORTIONS OF THE BUILDING MUST BE INSULATED TO AT LEAST R-6 WHERE 3" DIAMETER OR GREATER AND NOT LESS THAN R-4.2 FOR DUCTS SMALLER THAN 3" DIAMETER. EXCEPTION: DUCTS OF PORTIONS LOCATED COMPLETELY INSIDE THE BUILDING THERMAL ENVELOPE. (SECTION N 103.3.1)
- DUCTS, AIR HANDLERS AND FILTER BOXES SHALL BE SEALED. JOINTS AND SEAMS MUST COMPLY WITH THE INT. MECH. CODE M160.4.1 OF THE INTERNATIONAL RESIDENTIAL CODE. BUILDING FRAMING CAVITIES SHALL NOT BE USED AS DUCTS OR PLENUMS (NEITHER SUPPLY NOR RETURN). (SECTION N103.3.2 AND N103.3.3)
- DUCTS SHALL BE PRESSURE TESTED TO DETERMINE AIR LEAKAGE BY EITHER ROUGH-IN TEST OR POST-CONSTRUCTION TEST. ROUGH-IN TEST: DUCTS MUST BE LEAKIER THAN 6 CFM PER 100 SQ. FT. OF CONDITIONED FLOOR AREA WITH AIR HANDLER INSTALLED OR 4 CFM PER 100 SQ. FT. WITHOUT THE AIR HANDLER INSTALLED. POST CONSTRUCTION DUCTS: DUCTS MUST BE NO LEAKIER THAN 8 CFM PER 100 SQ. FT. OF CONDITIONED FLOOR AREA. REFER TO SECTION 103.3.3 FOR FURTHER REQUIREMENT DETAILS.
- AT LEAST ONE THERMOSTAT MUST BE PROVIDED FOR EACH SEPARATE HEATING AND COOLING SYSTEM. THE THERMOSTAT CONTROLLING THE PRIMARY SYSTEM MUST BE EQUIPPED WITH A PROGRAMMABLE THERMOSTAT. HEAT PUMPS HAVING SUPPLEMENTARY ELECTRIC-RESISTANCE HEAT MUST HAVE CONTROLS THAT, EXCEPT DURING DEFOST, PREVENT SUPPLEMENTAL HEAT OPERATION WHEN THE HEAT PUMP COMPRESSOR CAN MEET THE HEATING LOAD. (SECTION N103.1) AND N103.1.1)
- MECHANICAL SYSTEM PIPING CAPABLE OF CONVEYING FLUIDS AT TEMPERATURES ABOVE 105 DEGREES FAHRENHEIT OR BELOW 55 DEGREES FAHRENHEIT MUST BE INSULATED TO R-3. (SECTION 103.4)
- CONTROLS FOR CIRCULATING HOT WATER SYSTEM PUMPS SHALL START BASED ON THE IDENTIFICATION OF A DEMAND FOR HOT WATER WITHIN THE OCCUPANCY. THE CONTROLS SHALL AUTOMATICALLY TURN OFF THE PUMP WHEN NO WATER IN THE CIRCULATION LOOP IS AT THE DESIRED TEMPERATURE AND WHEN THERE IS NO DEMAND FOR HOT WATER. CIRCULATING DOMESTIC HOT WATER SYSTEM PIPING SHALL BE INSULATED TO R-3. (SECTION N103.5)
- THE BUILDING SHALL BE PROVIDED WITH VENTILATION THAT MEETS THE REQUIREMENTS OF SECTION M301 OR THE INTERNATIONAL MECHANICAL CODE, AS APPLICABLE, OR WITH OTHER APPROVED MEANS OF VENTILATION. OUTDOOR AIR INTAKES AND EXHAUSTS MUST HAVE AUTOMATIC OR GRAVITY DAMPERS THAT CLOSE WHEN THE VENTILATION SYSTEM IS NOT OPERATING. (SECTION N103.6)
- HEATING AND COOLING EQUIPMENT SHALL BE SIZED IN ACCORDANCE WITH ACCA MANUAL J OR OTHER APPROVED HEATING AND COOLING CALCULATIONS METHODOLOGIES. EQUIPMENT SHALL HAVE EFFICIENCY RATING EQUAL TO OR GREATER THAN APPLICABLE FEDERAL STANDARDS. (SECTION N103.7)
- A PERMANENT CERTIFICATE, COMPLETED BY THE BUILDER, MUST BE POSTED ON OR IN THE ELECTRICAL DISTRIBUTION PANEL. IT MUST LIST THE R-VALUES ON INSULATION INSTALLED IN OR ON THE CEILING, WALLS, FOUNDATION, AND DUCTS OUTSIDE THE CONDITIONED SPACES. U-FACTORS AND SHGC FOR FENESTRATION. THE CERTIFICATE MUST ALSO LIST THE TYPE AND EFFICIENCY OF HEATING, COOLING AND SERVICE WATER HEATING EQUIPMENT. (SECTION N101.4)
- CONSULT APPENDIX J OR INTERNATIONAL RESIDENTIAL CODE FOR SPECIFIC REQUIREMENTS RELATED TO WORK IN EXISTING BUILDINGS.



## WALL NOTCHING/BORING

NOTCHING AND BORED HOLE LIMITATIONS FOR EXTERIOR AND BEARING WALLS  
NOT TO SCALE

ASPHALT SHINGLES SHALL HAVE SELF-SEAL STRIPS, OR BE INTERLOCKING, AND COMPLY WITH ASTM D3462  
ZIP SYSTEM ROOF SHEATHING PER MANUFACTURER'S SPECIFICATIONS  
ICE BARRIER SHALL EXTEND FROM THE LOWEST EDGES OF ALL ROOF SURFACES TO A POINT AT LEAST 24" INSIDE THE EXTERIOR WALL LINE OF THE BUILDING  
DRIPEDEGE PER SECTION R305.2.8.5  
ROOF VENTILATION PER SECTION R906.1  
SIMPSON HURRICANE TIES



EXTERIOR WALL NOTE  
2x6 STUDS @ 16" O/C  
DOUBLE TOP PLATE, END JOINTS OFFSET 24" MINIMUM. SINGLE BOTTOM PLATE  
DRILLING AND NOTCHING OF STUDS SHALL BE IN ACCORDANCE WITH SECTION R602.6  
WOOD, HARDBOARD, AND WOOD STRUCTURAL PANEL SIDING SHALL BE INSTALLED IN ACCORDANCE WITH SECTION R703.3 AND TABLE R703.3(1). HARDBOARD SIDING SHALL COMPLY WITH CPAA/ANSI A39.6. HARDBOARD SIDING USED AS ARCHITECTURAL TRIM SHALL COMPLY WITH CPAA/ANSI A 135.1.  
HORIZONTAL WOOD LAP SIDING SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.  
WOOD SHAKES AND SHINGLES SHALL CONFORM TO C588.  
VINYL SIDING SHALL BE CERTIFIED AND LABELED AS CONFORMING TO THE REQUIREMENTS OF ASTM D3678 BY AN APPROVED QUALITY CONTROL AGENCY.  
VINYL SIDING, SOFFIT AND ACCESSORIES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.  
ZIP SYSTEM WALL SHEATHING SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

INTERIOR WALL/CEILING FINISH SHALL BE 1/2" GYPSUM BOARD (UNLESS OTHERWISE NOTED)  
ALL GYPSUM BOARD MATERIALS AND ACCESSORIES SHALL CONFORM TO SECTION R702.3.1.  
SCREWS FOR ATTACHING GYPSUM BOARD TO WOOD FRAMING SHALL BE TYPE U OR TYPE S IN ACCORDANCE WITH ASTM C1002 AND SHALL PENETRATE THE WOOD NOT LESS THAN 3/4".

ABOVE GRADE WALL R-VALUE  
ZONE 5, R-20 CAVITY INSULATION ONLY OR R-13 PLUS R-5 CAVITY PLUS CONTINUOUS INSULATION.  
ZONE 6, R-20 CAVITY PLUS R-5 CONTINUOUS INSULATION OR R-13 PLUS R-10 CAVITY PLUS CONTINUOUS INSULATION.

## CROSS SECTION A-A

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

DRAWN SET

DRAWN SET

**SIMPLY FLOOR PLANS, LLC**  
PAULLEBEAUTS@GMAIL.COM  
603-583-2559

DATE	DESCRIPTION
12/15/25	DRAFT PLANS - NOT FOR CONSTRUCTION
12/15/25	CONSTRUCTION PLANS

PROJECT INFORMATION

SHEET NUMBER
A9

PLAN NUMBER
1444