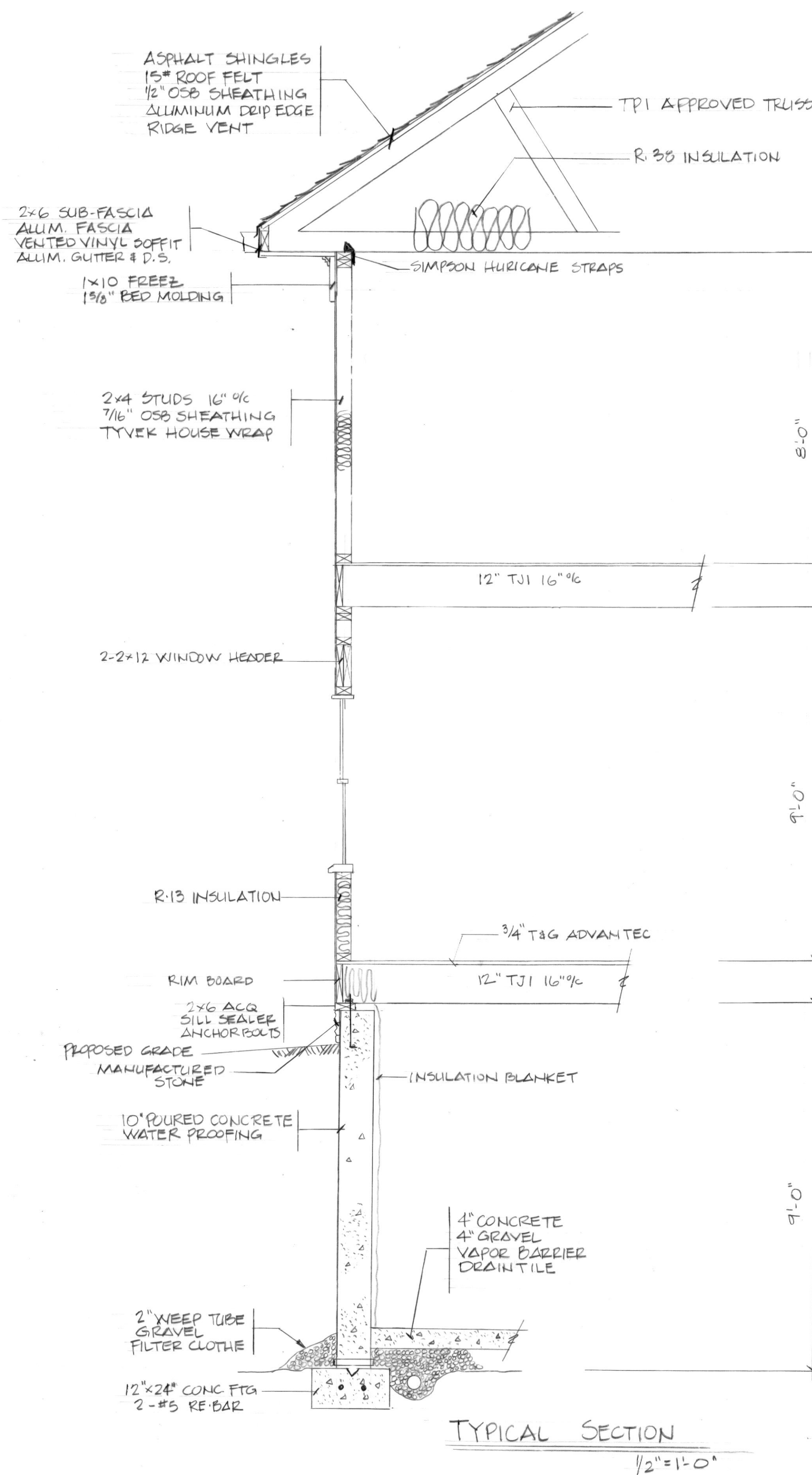


SECOND FLOOR PLAN
1/4" = 1'-0"
1272 SF



TYPICAL SECTION
1/2" = 1'-0"

- 2009 IECC CODE COMPLIANCE
- 301.1 Climate zone 4A
 - 401.2 Compliance Method: Mandatory and Prescriptive Provisions
 - 402.1.1 Exterior Frame Wall Construction: 2x4 studs at 16" o.c., R-13 Kraft faced batt insulation, 7/16" OSB, (continuous) Housewrap
 - 402.1.2 Attic Insulation: R-38
 - 402.1.3 Basement Wall Insulation: R-10 Foil Faced Continuous, uninterrupted Batts Full Height
 - 402.1.4 Crawl Space Wall Insulation: R-10 Foil Faced Continuous Batts Full Height extending from floor above to finish grade level and then vertically or horizontally an additional 2'-0"
 - 402.1.5 Floor Insulation over Unconditioned Space: R-19 batt insulation
 - 402.1.6 Window U-Value / SHGC: .34 (U-value), .31 (SHGC)
 - 402.1.7 Slab on Grade Floors Less Than 12" Below Grade: R-10 Rigid Foam Board Under Slab Extending Either 2'-0" Horizontally or 2'-0" Vertically
 - 402.2.3 Attic Access: Attic access scuttle will be weatherstripped and insulated R-38
 - 402.4.1 Building Thermal Envelope (air leakage): Exterior walls and penetrations will be sealed per this section of the 2009 IECC with caulk, gaskets, weatherstripping or an air barrier of suitable material
 - 402.4.2 Building Envelope Tightness Test Option: Building envelope tightness and insulation installation must meet the inspection criteria listed in table 402.4.2. A "Blower Door Air Infiltration Test" shall be performed in all units.
 - 402.4.3 Fireplaces: All wood burning masonry fireplaces will have gasketed doors and outdoor combustion air. Gasketed doors are not required for prefabricated fireplace units.
 - 402.4.5 Recessed Lighting: Recessed luminaires installed in the building thermal envelope shall be sealed to limit air leakage.
 - 403.1 Thermostat: All dwelling units will have at least (1) programmable thermostat for each separate heating and cooling system per 2009 IECC section 403.1. Where a Heat pump system having supplementary electric resistance heat is used the thermostat shall prevent the supplementary heat from coming on when heat pump can meet heating load.
 - 403.2.1 Mechanical Duct Insulation: Supply Ducts in Attic R-8 minimum. Supply Ducts outside of conditioned spaces R-8 minimum. All other ducts except those located completely inside the building thermal envelope R-6 minimum. Ducts located under concrete slabs must be R-6 minimum.
 - 403.2.2 Duct Sealing: All ducts, air handlers, filter boxes will be sealed. Joints and seams will comply with section M1601.4.1 of the IRC. A duct tightness test ("Duct Blaster" duct total leakage test) will be performed on all homes and shall be verified by either a post construction test or a rough-in test. Duct tightness test is not required if the air handler and all ducts are located within the conditioned space.
 - 403.5 Mechanical Ventilation: Outdoor (make-up) air will be brought into the home thru a duct with an automatic or gravity damper.
 - 403.6 Equipment Sizing: All furnaces will be 80% efficient furnaces.
 - 404.1 Lighting Equipment: A minimum of 50% of all lamps (lights) must be High-efficacy lamps.
 - Water Heater: Minimum efficiency established by NAECA
 - Mechanical Testing: All mechanical testing to be performed by:

