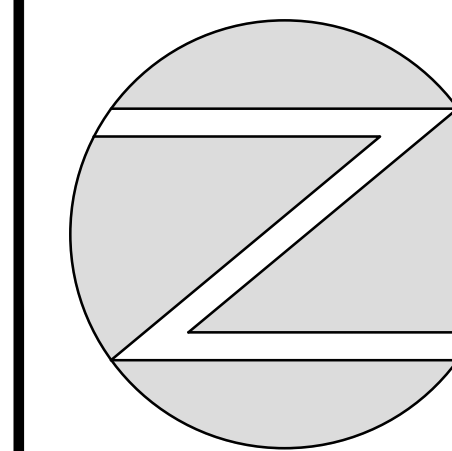


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DATE: 08.20.24

DRAWN BY: J.N.

DRAWING TITLE:

ELEVATIONS

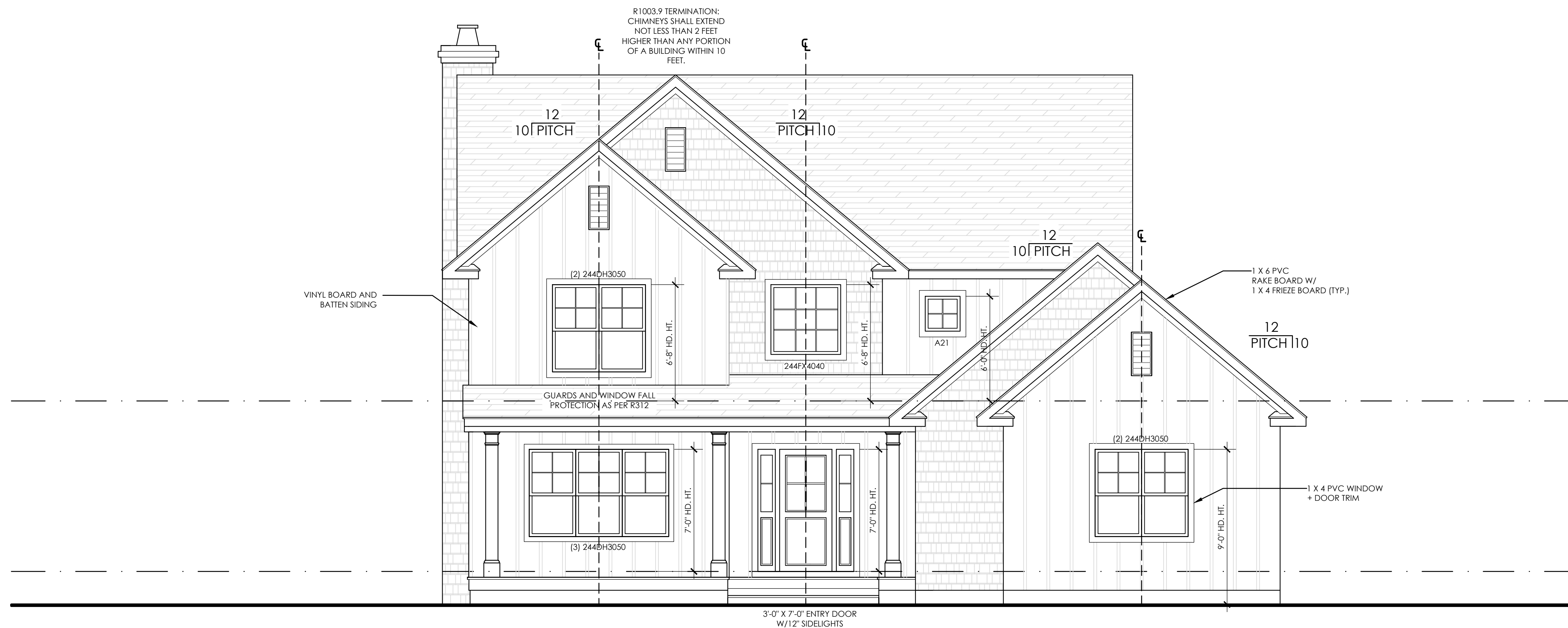
PROJECT:
 NEW CONSTRUCTION FOR:

**KELLY
 DEVELOPMENT**

12 COLONEL'S PATH
 MANORVILLE, NY 11934

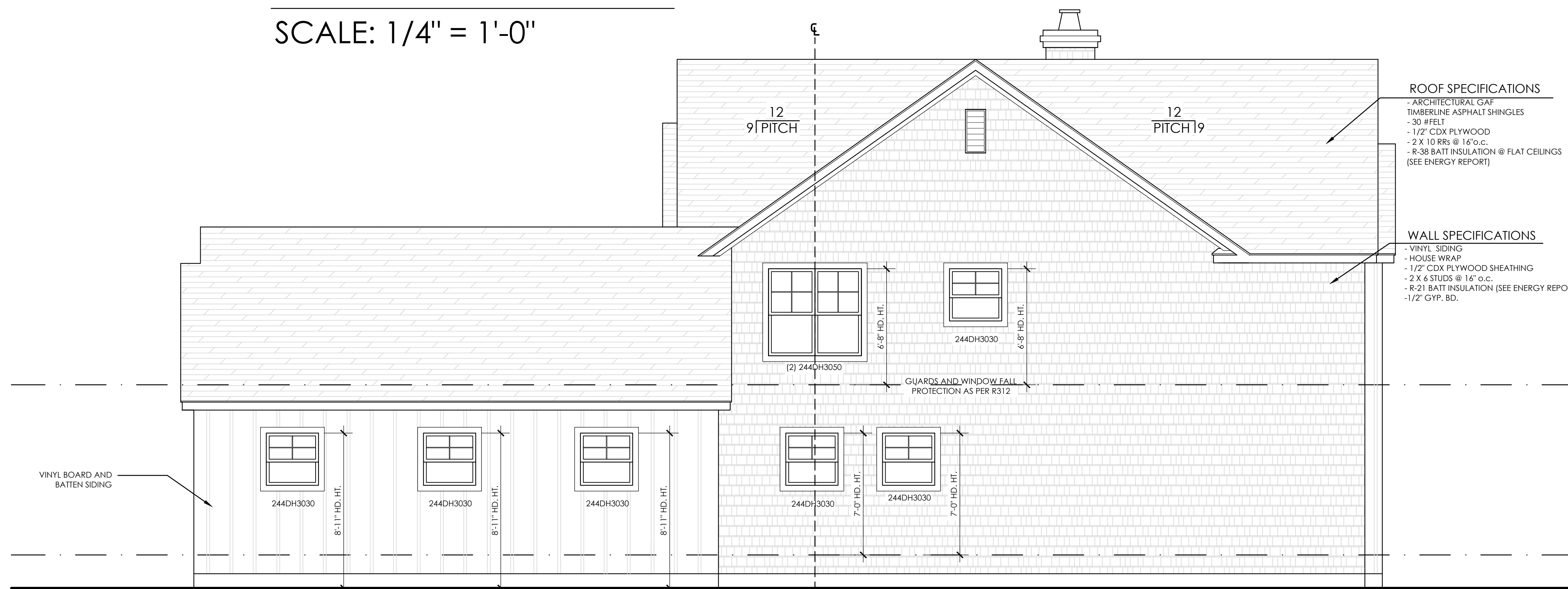
DRAWING NUMBER:

A201



NORTH ELEVATION

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



WEST ELEVATION

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

ROOF SPECIFICATIONS

- ARCHITECTURAL GAF TIMBERLINE ASPHALT SHINGLES
- 30 #FELT
- 1/2" CDX PLYWOOD
- 2 X 10 RRS @ 16" o.c.
- R-38 BATT INSULATION @ FLAT CEILINGS (SEE ENERGY REPORT)

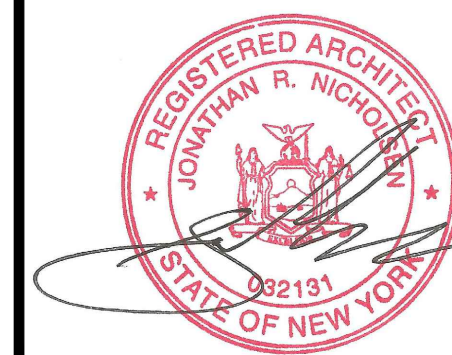
WALL SPECIFICATIONS

- VINYL SIDING
- HOUSE WRAP
- 1/2" CDX PLYWOOD SHEATHING
- 2 X 6 STUDS @ 16" o.c.
- R-21 BATT INSULATION (SEE ENERGY REPORT)
- 1/2" GYP. BD.

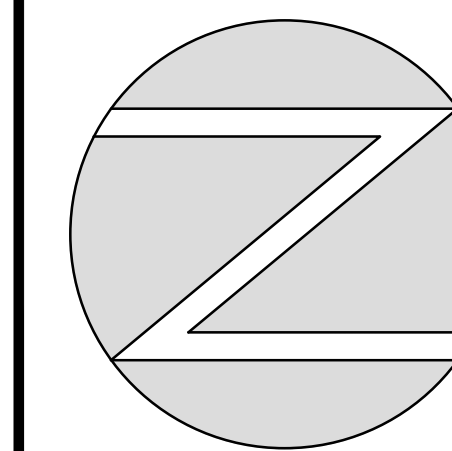
INSULATION SPECIFICATIONS (SEE ENERGY REPORT)

- FLAT CEILING: R-38 BATT INSULATION
- EXTERIOR WALLS: R-21 BATT INSULATION
- BASEMENT RIM JOIST: R-21 BATT INSULATION
- FLOOR: R-30 BATT INSULATION

- ANDERSEN 200 SERIES LOW-E4 GLIDER WINDOWS: 0.30 U-VALUE, 0.29 SHGC
- ANDERSEN 200 SERIES LOW-E4 D/H WINDOWS: 0.29 U-VALUE, 0.29 SHGC
- ANDERSEN 100 SERIES LOW-E4 CASEMENT WINDOWS: 0.27 U-VALUE, 0.26 SHGC
- ANDERSEN 400 SERIES LOW-E4 FRENCH DOORS: 0.30 U-VALUE, 0.23 SHGC
- LESS THAN 2.75 AIR CHANGES PER HOUR HOUSE AIR LEAKAGE
- HVAC DUCT AIR LEAKAGE TO OUTSIDE LESS THAN 4CFM PER 100 SQFT
- ENERGY STAR APPLIANCES
- MIN 75 ENERGY EFFICIENT INTERIOR LIGHTING
- BUILDING CAVITY CANNOT BE USED AS DUCTWORK
- HOT WATER PIPES INSULATED TO R3



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DATE: 08.20.24

DRAWN BY: J.N.

DRAWING TITLE:

ELEVATIONS

PROJECT:
 NEW CONSTRUCTION FOR:

**KELLY
 DEVELOPMENT**

12 COLONEL'S PATH
 MANORVILLE, NY 11934

DRAWING NUMBER:

A202



SOUTH ELEVATION

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



EAST ELEVATION

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

- ANDERSEN 200 SERIES LOW-E4 GLIDER WINDOWS: 0.30 U-VALUE, 0.29 SHGC
- ANDERSEN 200 SERIES LOW-E4 D/H WINDOWS: 0.29 U-VALUE, 0.29 SHGC
- ANDERSEN 100 SERIES LOW-E4 CASEMENT WINDOWS: 0.27 U-VALUE, 0.26 SHGC
- ANDERSEN 400 SERIES LOW-E4 FRENCH DOORS: 0.30 U-VALUE, 0.23 SHGC
- LESS THAN 2.75 AIR CHANGES PER HOUR HOUSE AIR LEAKAGE
- HVAC DUCT AIR LEAKAGE TO OUTSIDE LESS THAN 4CFM PER 100 SQFT
- ENERGY STAR APPLIANCES
- MIN 75 ENERGY EFFICIENT INTERIOR LIGHTING
- BUILDING CAVITY CANNOT BE USED AS DUCTWORK
- HOT WATER PIPES INSULATED TO R3

INSULATION SPECIFICATIONS (SEE ENERGY REPORT)

- FLAT CEILING: R-38 BATT INSULATION
- EXTERIOR WALLS: R-21 BATT INSULATION
- BASEMENT RIM JOIST: R-21 BATT INSULATION
- FLOOR: R-30 BATT INSULATION

N1102.4.1.1 (R402.4.1.1) Installation. The components of the building thermal envelope as listed in Table N1102.4.1.1 shall be installed in accordance with the manufacturer's instructions and the criteria listed in Table N1102.4.1.1, as applicable to the method of construction. Where required by the building official, an approved third party shall inspect all components and verify compliance.

N1102.4.3 (R402.4.3) Fenestration air leakage. Windows, skylights and sliding glass doors shall have an air infiltration rate of no more than 0.3 cfm per square foot (1.5 L/s/m²), and swinging doors no more than 0.5 cfm per square foot (2.6 L/s/m²), when tested according to NFRC 400 or AAMA/WDMA/CSA 101/IS.2/A440 by an accredited, independent laboratory and listed and labeled by the manufacturer.

N1102.4.5 (R402.4.5) Recessed lighting. Recessed luminaires installed in the building thermal envelope shall be sealed to limit air leakage between conditioned and unconditioned spaces. All recessed luminaires shall be IC-rated and labeled as having an air leakage rate not more than 2.0 cfm (0.944 L/s) when tested in accordance with ASTM E 283 at a 1.57 psf (75 Pa) pressure differential. All recessed luminaires shall be sealed with a gasket or caulk between the housing and the interior wall or ceiling covering.

N1103.6 (R403.6) Mechanical ventilation (Mandatory). The building shall be provided with ventilation that meets the requirements of Section M1507 of this code or the International Mechanical Code, as applicable, or with other approved means of ventilation. Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilation system is not operating.

N1102.4.1.2 (R402.4.1.2) Testing. The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding five air changes per hour in Climate Zones 1 and 2, and three air changes per hour in Climate Zones 3 through 8. Testing shall be conducted in accordance with ASTM E 779 or ASTM E 1827 and reported at a pressure of 0.2 inches w.g. (50 Pascals). Where required by the code official, testing shall be conducted by an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope.

N1101.10.3 (R303.1.3) Fenestration product rating. U-factors of fenestration products (windows, doors and skylights) shall be determined in accordance with NFRC 100.

N1101.11.1 (R303.2.1) Protection of exposed foundation insulation. Insulation applied to the exterior of basement walls, crawspace walls and the perimeter of slab-on-grade floors shall have a rigid, opaque and weather-resistant protective covering to prevent the degradation of the insulation's thermal performance. The protective covering shall cover the exposed exterior insulation and extend not less than 6 inches (153 mm) below grade.

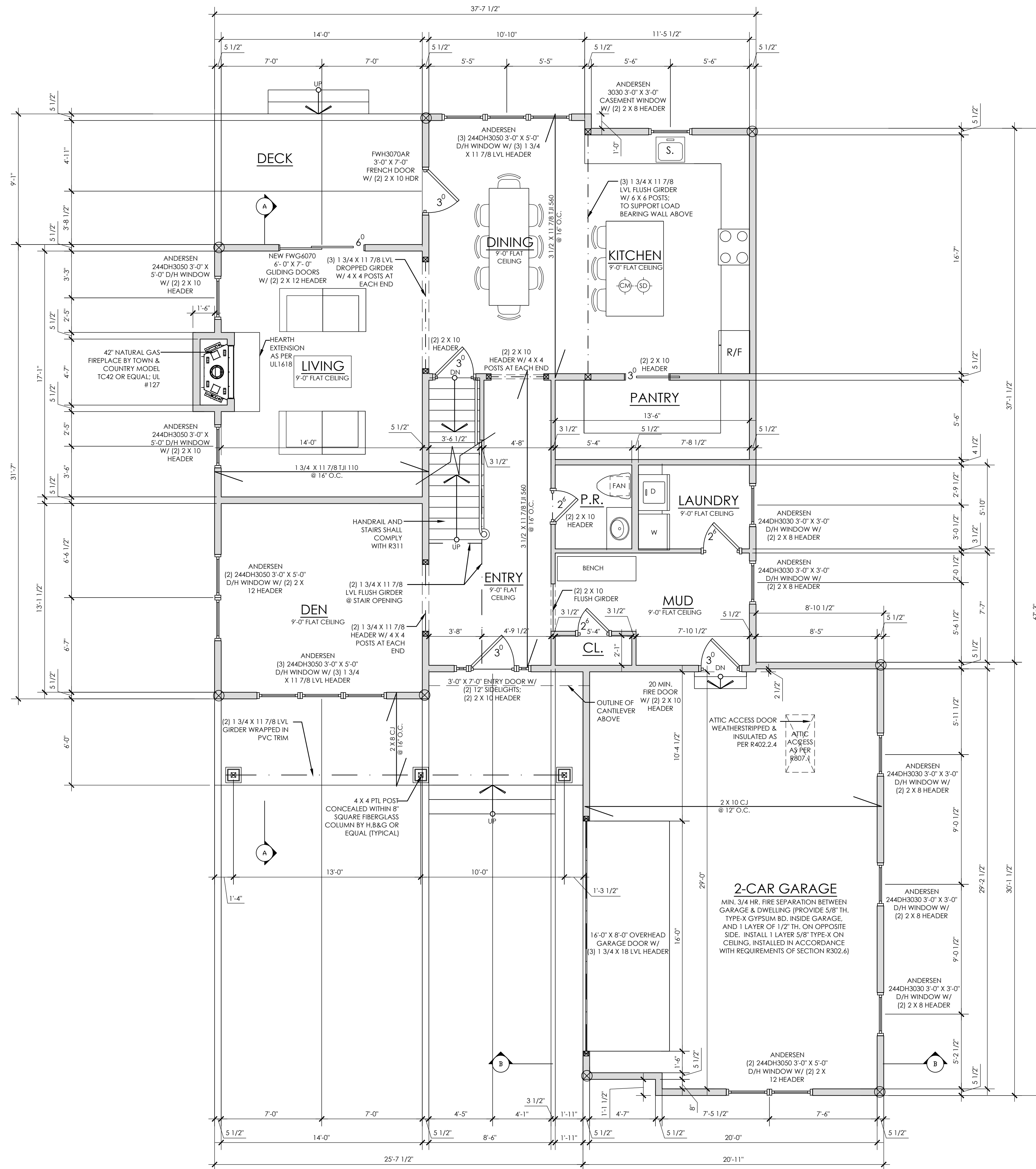
N1101.10 (R303.1) Identification. Materials, systems and equipment shall be identified in a manner that will allow a determination of compliance with the applicable provisions of this code.

N1101.11 (R303.2) Installation. All materials, systems and equipment shall be installed in accordance with the manufacturer's instructions and this code.

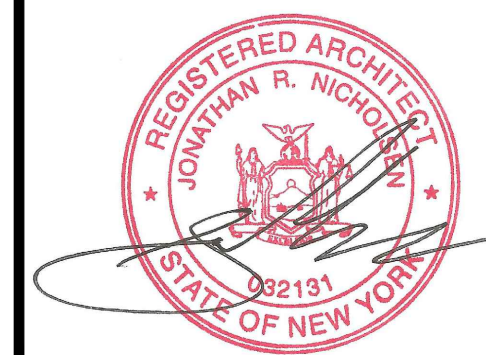
N1101.10.1.1 (R303.1.1.1) Blown or sprayed roof/ceiling insulation. The thickness of blown-in or sprayed roof/ceiling insulation (fiberglass or cellulose) shall be written in inches (mm) on markers that are installed at least one for every 300 square feet (28 m²) throughout the attic space. The markers shall be affixed to the trusses or joists and marked with the minimum initial installed thickness with numbers not less than 1 inch (25 mm) in height. Each marker shall face the attic access opening. Spray polyurethane foam thickness and installed R-value shall be listed on certification provided by the insulation installer.

N1102.2.3 (R402.2.3) Eave baffle. For air-permeable insulations in vented attics, a baffle shall be installed adjacent to soffit and eave vents. Baffles shall maintain an opening equal or greater than the size of the vent. The baffle shall extend over the top of the attic insulation. The baffle shall be permitted to be any solid material.

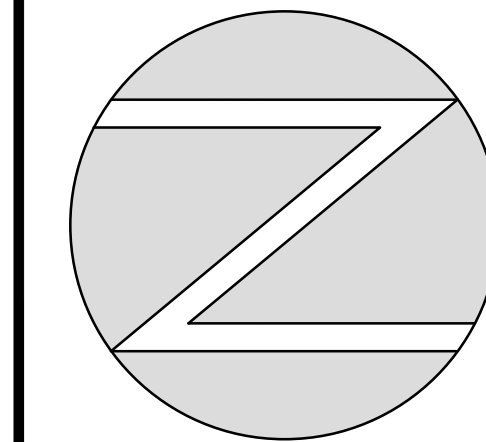
N1102.2.4 (R402.2.4) Access hatches and doors. Access doors from conditioned spaces to unconditioned spaces such as attics and crawl spaces shall be weatherstripped and insulated to a level equivalent to the insulation on the surrounding surfaces. Access shall be provided to all equipment that prevents damaging or compressing the insulation. A wood-framed or equivalent baffle or retainer is required to be provided when loose-fill insulation is installed, the purpose of which is to prevent the loose-fill insulation from spilling into the living space when the attic access is opened, and to provide a permanent means of maintaining the installed R-value of the loose-fill insulation



FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"



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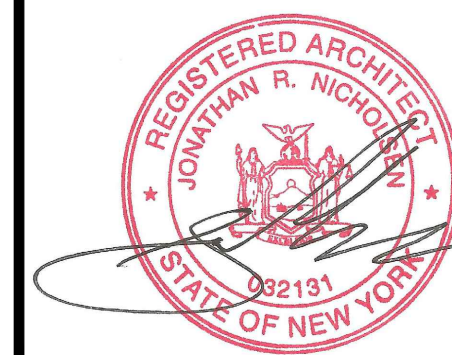
DRAWN BY: J.N.

DRAWING TITLE:
FIRST FLOOR PLAN

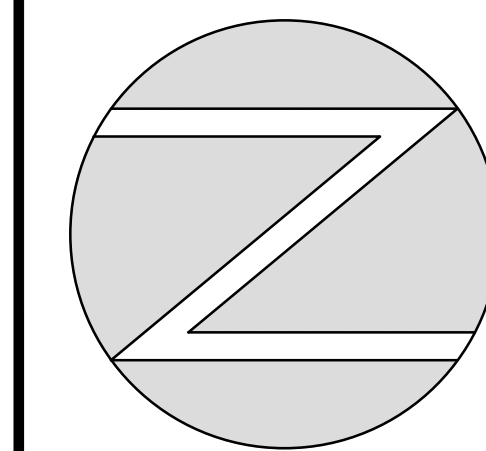
PROJECT:
NEW CONSTRUCTION FOR:
KELLY DEVELOPMENT
12 COLONEL'S PATH
MANORVILLE, NY 11934

DRAWING NUMBER:

A102



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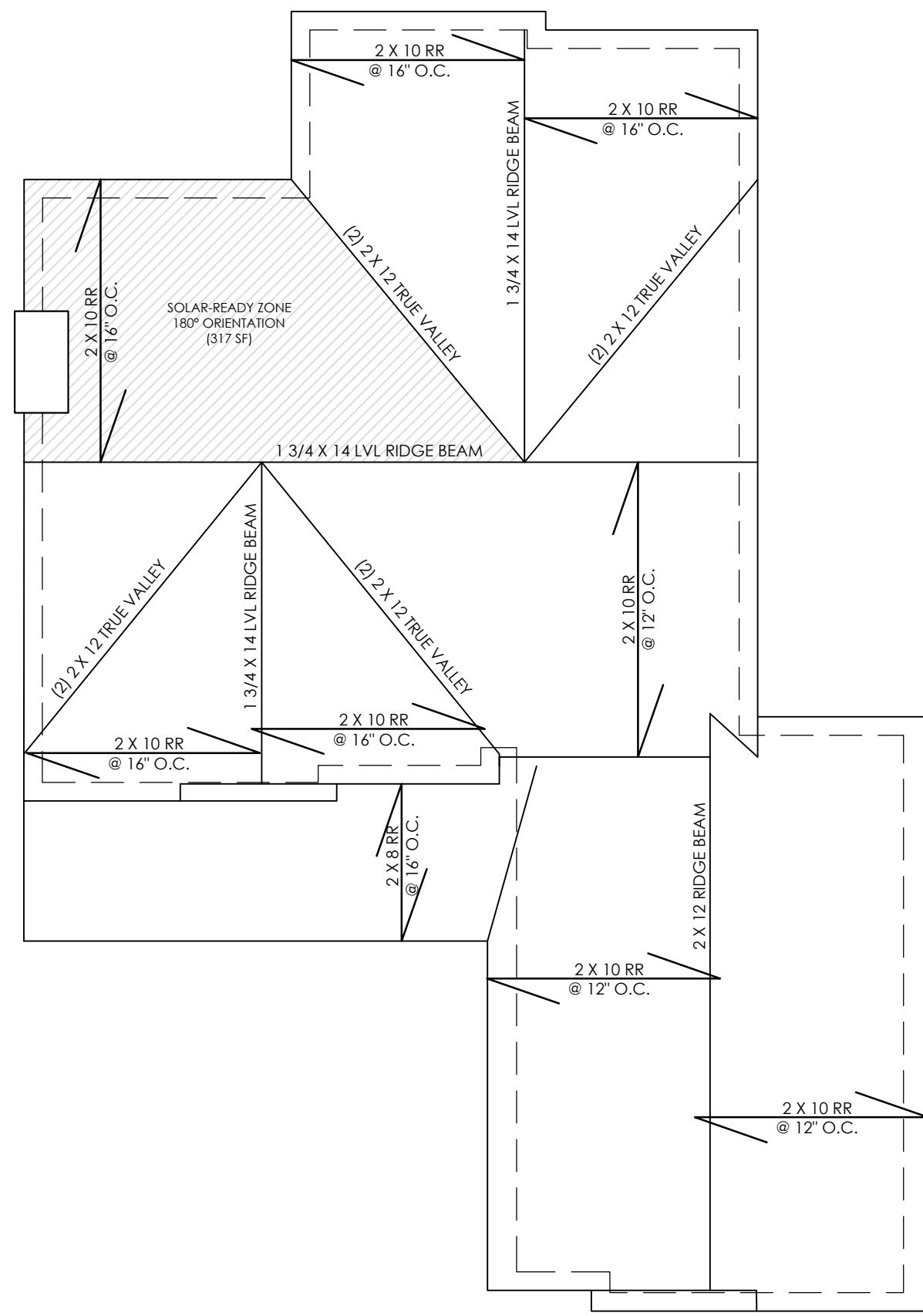
DRAWN BY: J.N.

DRAWING TITLE:
SECOND FLOOR PLAN

PROJECT:
 NEW CONSTRUCTION FOR:
KELLY DEVELOPMENT
 12 COLONEL'S PATH
 MANORVILLE, NY 11934

DRAWING NUMBER:

A103



ROOF PLAN/SOLAR PLAN

SCALE: 1/8" = 1'-0"

COMPLIANCE WITH 2020 IECC RB COMPLIANCE REQUIRED

RB103.8 Construction documentation certificate. A permanent certificate, indicating the solar-ready zone and other requirements of this section, shall be posted near the electrical distribution panel, water heater or other conspicuous location by the builder or registered design professional.

SECTION U103 SOLAR-READY ZONE

U103.1 General. New detached one- and two-family dwellings, and multiple single-family dwellings (townhouses) with not less than 600 square feet of roof area oriented between 110 degrees and 270 degrees of true north shall comply with sections U103.2 through U103.8.

Exceptions:

1. New residential buildings with a permanently installed on-site renewable energy system.
2. A building with a solar-ready zone that is shaded for more than 70 percent of daylight hours annually.

U103.2 Construction document requirements for solar ready zone. Construction documents shall indicate the solar-ready zone.

U103.3 Solar-ready zone area.

The total solar-ready zone area shall be not less than 300 square feet exclusive of mandatory access or set back areas as required by the International Fire Code. New multiple single-family dwellings (townhouses) three stories or less in height above grade plane and with a total floor area less than or equal to 2,000 square feet per dwelling shall have a solar-ready zone area of not less than 150 square feet. The solar-ready zone shall be composed of areas not less than 5 feet in width and not less than 80 square feet exclusive of access or set back areas as required by the International Fire Code.

U103.4 Obstructions.

Solar-ready zones shall be free from obstructions, including but not limited to vents, chimneys, and roof-mounted equipment.

U103.5 Roof load documentation.

The structural design loads for roof dead load and roof live load shall be clearly indicated on the construction documents.

U103.6 Interconnection pathway.

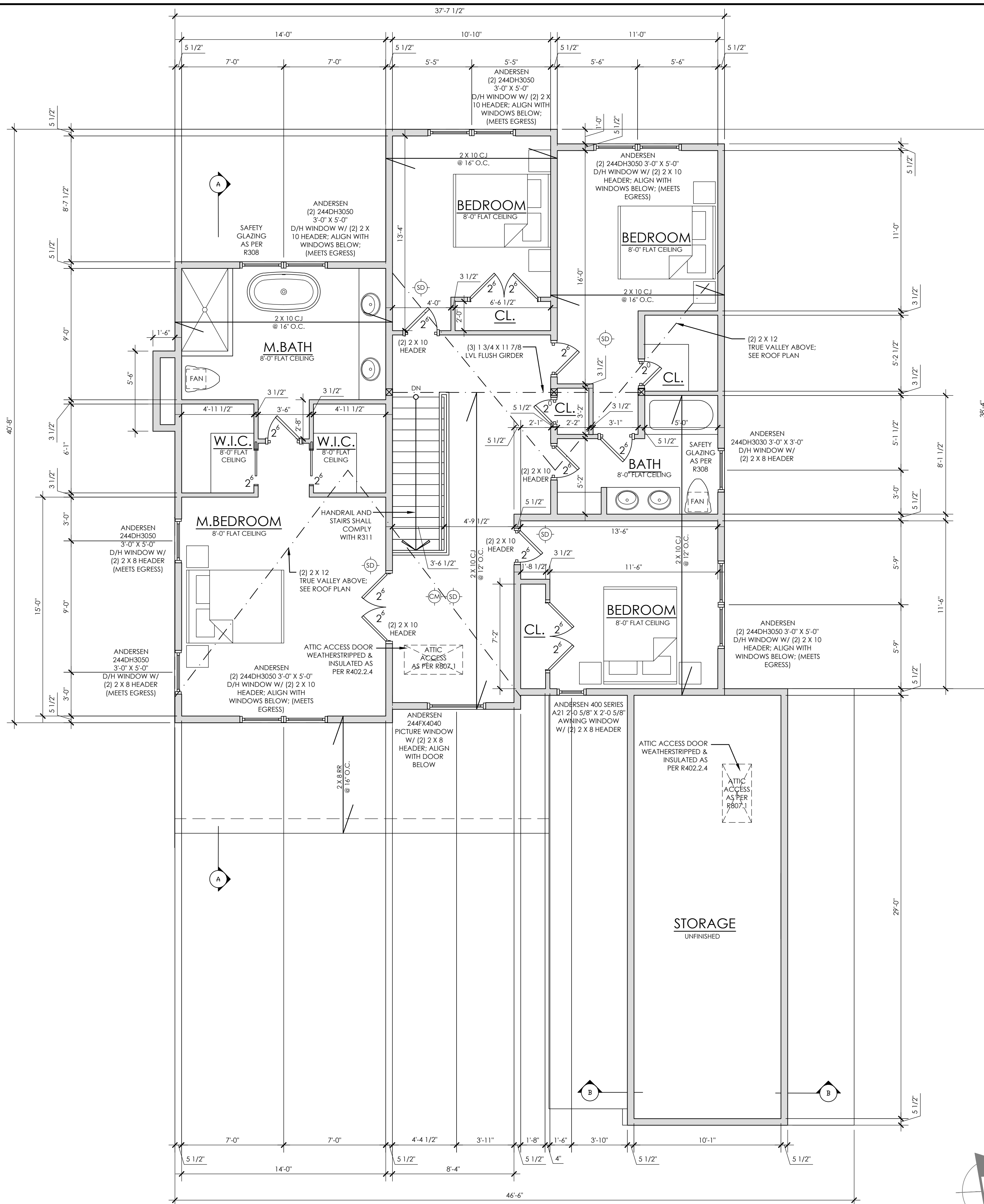
Construction documents shall indicate pathways for routing of conduit or plumbing from the solar-ready zone to the electrical service panel or service hot water system.

U103.7 Electrical service reserved space.

The main electrical service panel shall have a reserved space to allow installation of a dual pole circuit breaker for future solar electric installation and shall be labeled "For Future Solar Electric"; The reserved space shall be positioned at the opposite (load) end from the input feeder location or main circuit location.

U103.8 Construction documentation certificate.

A permanent certificate, indicating the solar-ready zone and other requirements of this section, shall be posted near the electrical distribution panel, water heater or other conspicuous location by the builder or registered design professional.



SECOND FLOOR PLAN

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