

MINIMUM BUILDING PLAN REQUIREMENTS, BUILDING PERMIT PROCEDURES, AND MINIMUM PLAN REQUIREMENTS FOR RESIDENTIAL PROJECTS

BUILDING DIVISION

This document is intended to provide procedures for developing a complete residential building permit application with minimum plan requirements for submittal.

PLEASE NOTE: The Applicant must receive approvals from **Planning and Zoning, Environmental Quality, Engineering, and the Building Division** before a Building Permit will be issued.

1. **Environmental Quality - Septic Permits or Sewer Availabilities**

1. The Environmental Quality Division shall review all construction before a building permit is issued.
2. Some areas with community sewer require proof of available sewer such as Pinewood, and Kachina Village, Other community sewer systems may not require approvals.
3. When the Arizona State Department of Environmental Quality (ADEQ) is involved in the approval and issuance of the Alternate Waster Water System Permit it is still required to submit to the Public Health Services District - Environmental Services for permit tracking and sign off approval on the building permit.

1. **Engineering Division - Right of Way, Grading, and Excavation Permits**

2. Applications are available at the Community Development Department counter and www.coconino.az.gov.
3. Apply with a complete application.
4. Any improvements within the county right-of-way (such as landscapes, fences, monuments, retaining walls, asphalt or concrete parking areas, pipe headwalls, etc.), require an application and is subject to review, and must comply with current county standards.

Coconino County Sustainable Building Program

The Coconino County Sustainable Building Program (CCSBP), provides the opportunity to design and build beyond the International Energy Conservation Code (IECC). Projects that participate in the program can benefit from reducing the use of energy, water, and resources, as well as increasing healthier indoor and outdoor environments.

Free services provided by the Sustainable Building Program include consultations, resources, educational programs, plan reviews, field inspections, code support for conventional and alternative constructions, and the Sustainable Building Awards Program.

• **Time Limitations and Adopted Codes**

- Building permits are valid for 180 days. When an inspection is completed, the time will reset for an additional 180 days. The structure will expire in 180 days (from date of issuance or of the last inspection), the permit shall be required to be renewed, some fees may be required.

- **Permits that are not picked up and paid for within 180 days of notification are considered "ABANDONED." (International Residential Code, Section R105.3.2).**

The Coconino County Building Division uses the following codes: 2018 International Residential Code, 2018 International Building Code, 2018 International Mechanical Code, 2018 International Fuel Gas Code, 2018 International Plumbing Code, 2018 International Energy Conservation Code, 2018 International Existing Building Code and 2017 National Electrical Code (Coconino County Building Ordinance 2019-10).
Residential Plan Requirements for all Divisions: (Plan Set shall be submitted in a PDF format)

To process Building Permit Application one complete set of construction plans shall be submitted for review. During the review process, if there are comments, they are noted on the plans and in a comment letter. Once this is completed, the reviewed plans along with the comment letter, will be given back to the Owner/Contractor so they can transfer the comments to a new single set of corrected plans. The amended plans and the original reviewed plans and comments shall be resubmitted for review. This process will be followed until all deficiencies have been corrected.

1. **Foundation Plan** -- Scaled 1/4" equals one foot

- Fully dimensioned two-line drawings -- show all foundations, footings, stem walls, piers, interior and exterior, fireplace, columns, braced wall line footings.
- Show Crawl space or basement.
- The detail on the Floor Slab.
- Show in-floor heating with details.
- Show Under-slab duct runs with material type and installation methods.
- Electric circuits with conduit and installation methods.

2. **Floor Framing Plan:** -- Scaled 1/4" equals one foot

Identify all framing, framing connectors and hardware, manufactured floor truss system, or I-joint floor system. The owner/contractor shall supply the specifications at the time of building plan submittal.

3. **Floor Plan:** -- Each floor including basements, scaled 1/4" equals one foot

- Fully dimensioned two-line drawings (show all walls with openings and posts, rooms, halls, stairs, etc. Label all rooms and spaces.
- Show all braced wall lines and panels.
- Door and window locations and sizes.
- Emergency exit windows.
- Show all exterior decks.
- Appliance, water heater, wood stove, fireplaces, and cabinet locations identified.
- Show plumbing fixtures.
- Furnace, Water Heater, Wood stoves, Fireplaces, and Decorative Appliances. Provide Manufacturer's Specifications and Installation Guide.
- If an ADU, show square footage of primary and ADU.

4. **Electric Plan:**

- Show all Lights locations
- Show all Switch locations
- Show Grounding electrode type.
- Show location of main service and sub-panels.
- Provide Panel Schedule.
- Provide the Symbol Schedule.
- Smoke Alarms and Carbon Monoxide Detector location
- Show all Receptacle locations.

5. **Elevations:** Scale 1/4" equals one (1) foot (front, right and left sides, and rear views)

- Four (4) elevations minimum for Single family dwelling and ADU.
- Two (2) elevations minimum for all other residential projects, unless other wised required.
- Type of siding or exterior wall covering. Flashing -- roof to wall.
- Show planters and other building projections.
- Over-hangs dimensioned.
- Provide roof ventilation calculations and area of venting.
- Show Chimney Location, Height above the ridge and spark arrestor type.
- Show all Decks, Balconies and Porches locations, Guardrails, Stairs, and Landings.
- Footings outlined: Show accurate grade line, show stepped foundation locations.
- Building height dimensioned: elevations of two or more-story buildings shall show an accurate grade line to determine actual heights of the building. The maximum building height shall be determined by Planning and Zoning, as per to the County Zoning Ordinance.

6. **Roof Framing Plan:** Scale 1/4" equals one (1) foot. Check live loads for your location:

- Load-bearing beams, door and window header, sizes and indicate the length of the span.
- Garage headers. Size and span.
- Post locations and supporting beams.
- Rafter sizes, direction, and spacing. Ceiling joists.
- Truss direction and spacing (engineered). Provide engineered truss specification details.
- Ridge, valleys, and hips size and labeled.
- Show blocking and bracing locations on the plans.
- Show all covered deck roof framing.

7. **Cross Section:** Scale 1/4" equals one (1) foot or larger

- Make visible all construction elements.
- Call out all mechanical connectors and hardware used.
 1. Footing and stem.
 2. Show floor/roof Girders and joists, blocking; or slab with fill.
 3. Studs -- size and spacing.
 4. Floor and roof sheathing, type, and size.
 5. Show Rafters, Engineered trusses, and I-joist.
 6. Identify all Insulation location and type.

7. Call out all wall elements.
8. Call out all dimensions.
9. Show roof over-hang and attic space:
10. Show stair information with details, show guardrails information with details.

8. **Details:** -- Scale 1/2" equals one (1) foot or larger

- Footing, Stem wall, Piers, and all foundations and material used.
- Show all connections and hardware between walls, floors, deck, ceilings, and roofs, etc.

9. **Log Home Specifications:**

- All logs used in log construction shall be graded and stamped by a certified lumber grading agency. Logs that will be used for the walls do not require a stamp provided a letter is Provided by the supplier identifying the grade, species, and moisture content of the log.
- Plans for log homes or log structures shall include:
 1. Species and grades of logs used.
 2. The moisture content of logs, if the moisture content of the logs is greater than 19%, the home shall be designed for settlement, and the plans shall show the methods and details for that purpose.
 3. Method of installation for logs.
 4. Types of fasteners used and spacing requirements.
 5. Provisions for settling at all wall openings, load-bearing posts, fireplaces, interior frame partitions, staircases, plumbing lines and all non-settling portions of the building.
 6. Type of materials and methods used to seal and chink the logs.
- Additional plans required for log homes shall include the architectural plans for a typical single-family dwelling.
- Plans must be stamped by a professional architect or civil/structural engineer licensed to practice in the state of Arizona when:
 1. Log structural members are used for other than wall logs. i.e., main ridge beams, roof beams, rafters, roof purlins, posts, floor girders, floor joist, or other similar applications.
 2. The log structure exceeds two stories in height.
- Plans required to be sealed by an architect or engineer must contain the following information:
 - The grade, species, and moisture content of the structural logs.
 - The fiber bending stress value of the logs shall be provided.
 - The design loads for the roof, floor, and deck log members shall be indicated on plans.
 - Engineering calculations for all applicable log structural members shall be provided.
 - Provisions shall be made for all plumbing, electrical and mechanical in solid log construction.
 - The plans shall show details on the installation of these systems.

10. Architect and Engineer Requirements:

The following list of plans and details shall be designed and stamped by an architect or engineer registered by the state of Arizona, Board of Technical Registration.

- New construction, additions, and alterations for buildings of 3,000 square feet or more shall require an architect's stamp. (Exception – single-family dwelling)
- Any prow wall and tall walls that are greater than 18 feet in height for 50 percent of the wall.
- Fill material for support of any bearing footing.
- Fill placed in excess of four feet shall be designed by an engineer as to the composition; placement, compaction, and frequency of soils test and soil tests and reports shall be provided.
- Fireplace and chimney columns used as structural supports.
- Structural log construction, for girders, joists, rafters, post, and beams, etc. Wall logs excluded with approved stacking and joining methods.
- Any structural steel building shall be designed for snow load, wind speed and seismic zone, check with Coconino County Building Department for requirements. Engineered steel structures shall have the design and the plans stamped by an engineer licensed in the State of Arizona for the structure and foundations.
- Masonry lintels with a span greater than 8'.
- Foundations constructed in expansive clay soils.

11. Home Owner Association, Design Review Requirements, and Process:

- The Home Owner associations may have specific design review requirements and CC&Rs associated with proposed development that are not part of the County's plan review process.
- It is the Applicant's responsibility to notify the HOA, so they are aware of the proposed development.
- It is the Applicant's responsibility to ensure that any proposed development complies with the specific design review requirements and or CC&Rs.
- It is the Applicant's responsibility to ensure that the proposed plans submitted to the HOA are reviewed and approved.
- Plan review approval does not substitute for HOA approval, and the County is not responsible for any subsequent action that may be taken by the HOA.
- The HOA shall review structural changes that affect the exterior of the structure for approval. It is the responsibility of the Applicant to ensure that the change is submitted for re-review.
- Checking the HOA box on the Coconino County Site Plan Application acknowledges of the above and that the Applicant is responsible if they proceed without HOA approval.

12. Arizona Public Service: shall be contacted for locations, specifications, and information concerning new electric service installation at (928) 773-6414. For information to have an electric service energized or for temporary power, contact APS at (928) 779-6911 (or toll-free at 1-800-253-9405). APS is located at 101 W. Cherry, Flagstaff, Arizona 86001.

Coconino County Community Development

Contact Phone: (928)-679-8850