

Minimum Project Submittal Requirements – Residential, One & Two-Family Dwellings and Townhomes

- The following table outlines the requirements for plan/drawing/document submittals when applying for a building permit.
- If the project includes any exterior changes, DRB approval is required prior to building permit application.
- **FOR ALL PROJECTS**, an asbestos test report by a registered Colorado Asbestos inspector is required at submittal, per State of Colorado asbestos regulations (this includes shower/bath enclosures where new tile is proposed).
- All plans that include removal of walls require a report from a Licensed Engineer to determine if any walls are structural.
- All plans that are prepared by a Colorado Registered Design Professional and shall be stamped, signed and dated. Plans marked “Not for Construction”, “Conceptual”, “Preliminary” or other like statement will be rejected.
- A Fire Sprinkler Retrofit Checklist is to be completed by Registered Design Professional or applicant for all permits.
- All applications will be reviewed for completeness prior to being accepted and moved forward for review.
- All submitted plans/drawings will be reviewed for code compliance. Failure to meet any of these requirements will result in submittal rejection.
- All plans prepared by a Registered Design Professional are required to be stamped and submitted electronically. See our website for more information or contact the office @ (970) 479-2139.

REQUIREMENTS*	New Construction	Addition	Interior Remodel	Deck / Balcony	Re-Roof	Window Replacement
# of Plan Sets (paper app only)	2	2	2	2	2	2
Title Page / Code Analysis	Y	Y	Y	Y	N	N
Energy Code Compliance	Y	Y	Y	N	Only if no existing insulation	Y (U-factors)
Survey / Site Plan	Y	Y	N	Y	N	N
Civil Plan	Y	Y	N	N	N	N
Soils Report	Y	Open hole report @ excavation	N	Open hole report @ excavation	N	N
Foundation Plan(s)	Y	Y	N	Y	N	N
Structural Calculations	Y	Y	If walls are to be removed.	Y	N	N
Floor Plan(s)	Y	Y	Y	Y	N	Y
Framing Plan(s)	Y	Y	Y	Y	N	N
Roof Plan(s)	Y	Y	N	N	Y	N
Elevations	Y	Y	Only if exterior changes	Y	N	Y
Cross Sections / Details	Y	Y	Y	Y	N	N
Schedules	Y	Y	Y	N	Y – Class A, underlayment, valleys, material	Y – U factor, safety glazing
Electrical Plan(s)	Y	Y	Y	N	N	N
Mechanical Plan(s)	Y	Y	Y	N	N	N
Plumbing Plan(s)	Y	Y	Y	N	N	N
Statement of Special Inspection	Y	Y	Y	Y	N	N

***Requirements** – For details of each requirement above, see table below.

# of Plan Sets	<ul style="list-style-type: none"> ❖ If submitting paper plans, minimum 11"x17" or larger. 24"x36" is recommended. All sheets within the set must be the same size.
Title Page / Code Analysis	<ul style="list-style-type: none"> ❖ Project name, address, owner information, scope/description ❖ Table of contents ❖ Note type of work – New Construction; Addition; Alteration/Renovation/Interior Remodel ❖ Vicinity Map ❖ Names of Architect, Engineers and Consultants, including Professional Seal(s). <ul style="list-style-type: none"> ➢ All drawings and calculations must be prepared by a design professional licensed to practice in the state of Colorado. Each page shall be signed and stamped (original stamp not required – can be electronic). ➢ <u>Exception</u>: Tenant finishes and remodels that do not affect fire-resistive rated construction, structural items, means of egress, plumbing and/or electrical systems are not required to have stamped professional drawings. ❖ Building Code Analysis – Code(s) Utilized; Occupancy Classification; Type of Construction; Location on Property; Allowable Floor Area; Height and Number of Stories; Mixed Occupancy Compliance Method; Structural Analysis; Building Systems; Building Materials; etc. ❖ Code Compliance Plan – Occupant Loads; Means of Egress designation; Path of Travel measurements; Plumbing Fixture Count; Fire-Resistive Rated Construction designation; Suppression/Alarm System; Indication of Type A/B dwelling units; etc.
Energy Code Compliance	<ul style="list-style-type: none"> ❖ Details shall include, but are not limited to, the following: <ul style="list-style-type: none"> ➢ Insulation materials and their R-value ➢ Fenestration U-factors and SHGC's ➢ Mechanical and service water heating system equipment types, design criteria, sizes, efficiencies ➢ Equipment and system controls ➢ Duct sealing specifications and duct/pipe insulation specifications/locations ➢ Air sealing details ➢ Building thermal envelope depiction ➢ REScheck™ report is recommended (If utilizing another compliance path, declare path at submittal)
Survey / Site Plan (see DRB application for more information)	<ul style="list-style-type: none"> ❖ Survey (signed, sealed and dated by Colorado licensed Land Surveyor); north arrow and scale; property information and legal description; owner information; property lines; easements/setbacks; right-of-way(s); adjacent roadways; contours/existing grades; sidewalks/steps/curbs/curb cuts/driveways; fences/gates/walls/retaining walls; existing structures/trees/shrubs to remain or to be removed; utilities locations, existing and new; accessible routes
Civil Plan(s)	<ul style="list-style-type: none"> ❖ North arrow and scale; layout of building(s) and finished elevations; proposed grading – contours/spot elevations/slopes/matching grades; foundation drains and erosion control plan; drainage plan and final drainage report; existing conditions/demolition plan; utility plan and sign-offs; CDOT access permit and NTP (or, at a minimum, comments from town engineer)
Soils Report (see: Special Inspection Program)	<ul style="list-style-type: none"> ❖ To be prepared by 3rd Party special Inspector (see Town of Vail's approved inspector list)
Foundation Plan(s) [Colorado Design Professional req'd.]	<ul style="list-style-type: none"> ❖ North arrow and scale; design criteria and specifications; footing and foundation sizes and elevations; footing and foundation cross sections clearly depicting reinforcement for each area
Floor Plan(s)	<ul style="list-style-type: none"> ❖ North arrow and scale; shall be dimensioned and clearly marked; room use and numbers labeled; floor elevations and change in materials and ramps/stairs; guard and handrail details; stair riser and tread details; existing and new walls/wall types/material; fire-resistance rated assemblies; door swing/numbers; all plumbing fixtures and drains; other miscellaneous items (fire extinguisher cabinets, access doors, drinking fountains, ladders, lockers, folding partitions, shelving, elevators, etc.)
Framing Plan(s) [Colorado Design Professional req'd]	<ul style="list-style-type: none"> ❖ North arrow and scale; shall be dimensioned and clearly marked; for all floors, decks and roofs; design criteria and specifications; locations and sizes of all components (joists, beams and columns); material types, grades and species; load paths and connections; etc.
Reflected Ceiling Plan(s)	<ul style="list-style-type: none"> ❖ To include ceiling heights; finish materials; light/diffuser/access locations; etc.
Roof Plan(s)	<ul style="list-style-type: none"> ❖ North arrow and scale; shall be dimensioned and clearly marked; materials (Class A), valleys and underlayment. Pitch; drains/overflow drains/scuppers/gutters/leaders; show crickets/skylights/vents/fans/mechanical equipment/access; etc.
Elevations	<ul style="list-style-type: none"> ❖ Exterior – finish materials; all openings, dimensions and height from grade, type of opening; finish floor elevations; roof elevations; grade elevations; other miscellaneous items (ladders, louvers, railings, guards, gutters, downspouts, stairs, decks, ramps, etc.) ❖ Interior – toilet room and kitchen showing fixture heights and accessibility; wall finish materials

Cross Sections / Details	❖ All architectural – roof/wall/floor assemblies and materials; insulation R-values; weather resistive barriers; assembly types, including fire-resistive and or non-combustible assemblies/occupant separation assemblies; stairs, ramps, handrails, guards, edge protection, etc.
Schedules	❖ Doors (types, size, fire rating, hardware); windows (types, frames, sizes, glazing, U-factors and tempered safety glass, labels); interior finish
Electrical Plan(s)	❖ Service/distribution equipment location; load and fault current calculations for all existing/new equipment; panel/equipment/fixture schedules; complete lighting and power plan; IECC lighting compliance; meter location; one-line diagram
Mechanical Plan(s)	❖ Entire HVAC system layout on full-size plan; ventilation calculations; fire/smoke/combo damper sizes and locations; fuel-fired equipment locations/sizes/BTU's/gas pipe sizing/flues; equipment schedules; kitchen/toilet room exhaust layout and Type I/II hood specifications; vent/flue terminations; fireplace types and venting
Plumbing Plan(s)	❖ Entire plumbing system layout on full-size plan; plumbing calculations; size/location/materials of all drain/waste/vent/water piping; drain slopes; sewer connections; backflow prevention; fixture/equipment schedules; roof drainage; size/location/materials of all gas piping; water/gas meter locations; sand/grease traps; plumbing isometrics
Statement of Special Inspection	❖ Per IBC Chapter 17, and Town of Vail amended residential code, special inspections and tests are required. These shall be performed by a 3rd Party Inspector approved by the Town of Vail. Inspections and tests include, but are not limited to, the following: <ul style="list-style-type: none"> ➤ Steel Construction including welds and high strength bolting ➤ Concrete Construction ➤ Masonry Construction ➤ Soils ➤ Driven Deep Foundations/Piles, shoring anchors and helical piers ➤ Seismic Resistance ➤ Spray Applied Fire-resistive Materials ➤ Epoxy dowels

The current adopted codes in the Town of Vail are 2018 IBC, IRC, IMC, IPC, IFGC, IECC, IEBC, IFC, and 2017 NEC, as amended.