

Planning & Development Services

City of Medicine Hat 580 – 1 Street SE Medicine Hat, AB T1A 8E6

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COMMERCIAL BUILDING PERMIT APPLICATION CHECK LIST

New Buildings, Additions (Commercial, Institutional, and Industrial)

Drawings or Documentation Required - Copy of all drawings are required.			(ED
•	ies). Scale not less than 3/16" = 1'-0" (1:50) unless otherwise noted. Details	Submitted	Accepted
Drawing Section	55000	Submitted	Accepted
Building Grades Plan	Site dimensions and North arrow		
	• Must include grade levels to an established pattern, locations and setbacks from other buildings on the		
	property lines, access routes for fire department, storm water control, locations of fire hydrants and		
	utilities, curbs/sidewalks and elevations of such, and parking stalls required		
	Required for all new buildings and may be required for additions to existing buildings		
Architectural Site	Site dimensions and North arrow		
Plan	Location and dimensions of all buildings on the site, including dimensions to the nearest property lines. Limiting distance from each building face unless included in a Code Review Page		
	Location of all site services		
	Parking & Barrier Free Parking Stalls		
	Street names and location, as well as, location and width of any lanes		
	Legal description (Lot number, Block number, Plan number)		
	■ Street address, floor number, and tenant suite number		
Building Code Analysis/Report	 Complete code analysis including occupancy type, occupancy loads, limiting distance (special separation), rated assemblies required, travel distance, exit requirements 		
Architectural Floor	All interior and exterior alterations		
Plans	Indicate the use of all rooms and areas. Include occupancy loads unless included in the Code Review		
	Indicate all door and window sizes (may be provided in door and window schedules)		
	 Construction of wall assemblies, including fire and sound separations 		
	Structural information (may be provided on structural drawings)		
	Fire Protection Components as per 2.2.3 ABC Division C (if applicable)		
	Required for ALL building permit applications. Floor Plans must indicate all work to be carried out, door swings, door dimensions, interior room finishes, etc.		
Architectural Roof Plans	Indicate all roof top mechanical units, dimensions, setback from roof edges, skylights, accessible decks, guard rails, planters, landscape, roof drains, and parapets		
Architectural	■ Indicate all horizontal spaces above the ceiling and use		
Ceiling Plans	■ Indicate lighting fixtures		
	Include any fire resistance ratings and show all fire stopping of penetrations in rated assemblies		
Architectural Cross Section	Stair dimensions (width, rise, run, number of risers) height of guards, handrails, and extensions		
	Wall, floor, roof and/or ceiling assemblies (descriptions or cross sections)		
	Fire-resistance rating details of any required fire separations including test(s) references		
	Fire stopping details for service penetrations of fire separations		
	Required for new buildings, additions to existing buildings, and most applications which involve an alteration to an existing building. Construction details/cross sections should indicate dimensions and construction details for floor, wall, and roof assemblies. Fire-resistance assemblies shall be ULC listed, or tested by a recognized laboratory, or comply with Appendix D of the ABC, or if applicable, Table A-9.10.3.1. A & A-9.10.3.1. B.		

Architectural	Exterior cladding, roof finishes	
Exterior Elevations	Dimensions of exterior guards and guard details, where applicable	
	Storeys, elevations related to building grades	
	Indicate all window and door openings	
	Spatial separation percentage openings and fire-resistance ratings	
	Exit exposure protection	
	Elevations to include all exterior doors, exterior guard heights, windows and exterior cladding material, etc.	
Architectural Building	Construction details/cross section should indicate dimensions and details of proposed windows, walls, roofs, roof classification rating, balconies, decks, and the typical interface between elements	
Envelope Details	■ Details for penetrations through roof & exterior wall(s)	
	Gross wall and roof area; total window, skylight and exterior door area	
NECB Building Envelope	Ratio skylight to floor area, and vertical fenestration and door area to gross wall area,	
Details	 Overall thermal transmittance of walls, roofs, floors fenestration, doors, and skylights 	
	 Description and location of air barriers and air leakage of fenestrations and doors 	
	 Heat loss coefficients as the sum of the product's thermal transmittance in the building envelope 	
	Heat loss coefficient for the building, dividing the heat loss of products by the floor area	
Architectural Schedules	 Door and window number indicating location, hardware type, fire resistance rating, type of material (including frames, size, and swing direction) 	
Barrier Free	Exterior Signage and parking area markings	
Designs	Barrier free details for washrooms, ramps and entrances. Include dimensions and heights of all fixtures: grab bars, robe hooks, lavatories, handles, thresholds, parking stalls, and signs	
Structural	■ Exit exposure protection	
	Construction details/cross sections of all building elements	
	Piles; footings; grade beam; columns; sizes, depths, steps, rebar designs and concrete requirements.	
	Slabs; sizes, depth, rebar designs, penetration locations and concrete requirements.	
	Geotechnical requirement for the footing, piles and soil conditions including	
	Foundation and structural as per part2.2.4 ABC	
Mechanical	■ Kitchen exhaust hood and duct work	
Mechanical	Location of all air handling units exhaust and supply duct work, including fire stopping details	
	Location and size of exhaust and supply fans	
	■ NFPA 96 Commercial kitchen requirements detailed	
	■ HRV size and ratings	
NECB Mechanical	 A description of each HVAC system detailing its function, design details, performance characteristics and distribution arrangement, including heat loss calculation for the building. 	
Details	Schematic and control diagrams, and sequence of operation	
	■ Start/stop and adjustment procedure	
Plumbing	Details of all supply, waste, and vent systems throughout the building, including size and type of material	
	Details of all fire stopping of penetrations through rated assemblies	
	■ Grease interceptor size and location	
	■ Equipment layout	
	■ Sink type(s) & number of compartments	
	Show all backflow preventers and locations	
	■ Detail and bypass on water meters	
NECB Water Heating System Details	A description of each water heating system detailing its function, design details, performance characteristics, and distribution arrangement	
	Schematic and control diagrams and sequence of operation and piping insulation details	
	Start/stop and adjustment procedure Start/stop and adjustment procedure	
	- start/stop and adjustment procedure	

Electrical	■ Indicate exit signs, emergency lighting, & fire alarm devices, where applicable		
	Indicate lighting fixtures and ceiling plan.		
	Site exterior lighting		
	Electrical rough-in plan, line drawings including breakers conduit and receptacles		
	Low voltage security and fire alarm plans		
	Panels service and utility distribution		
	Include conduit sizes; conductor overcurrent sizing for electrical services		
	Note any patient care areas identified as per C.E.C Section 14, if applicable		
NECB Lighting details	 As-built single-line diagram of the lighting control system showing the location of each illuminated zone and associated switches and controls 		
	Installed interior lighting power in conditioned spaces, in kW		
	 Average lighting power density, in W/m², obtained by dividing the installed interior lighting power by the total floor area 		
	If the building area method is used to determine the interior lighting power allowance, the associated lighting power density, in W/m², and the gross lighted area, in m².		
	If the space-by-space method is used to determine the interior lighting power allowance, a detailed line-by-line breakdown of spaces, their floor area, in m², the associated lighting power densities, in W/m², and the resulting lighting power allowances, in Kw		
	■ Interior lighting power allowance, in kW		
	■ Installed interior automatic controls and justification for spaces exempted		
	Exterior lighting power, in kW, including a detailed line-by-line breakdown of spaces and/or functions		
	■ Installed exterior automatic controls and justification for spaces and/or functions exempted		
NECB Electrical Power Systems and	 An as-built single-line diagram of the buildings electrical distribution system indicating the locations of means to monitor energy consumption 		
Motors	 Schematic diagrams of electrical control systems for systems other than heating, ventilating and air- conditioning, service water heating and lighting 		
	■ The manufacturer's operational manuals for all electrical equipment		
Fire Suppression	■ Engineered approved sprinkler drawings		
	■ Indicate location and type of all heads		
	■ Indicate the NFPA and Hazard standard you are designing to		
	■ Indicate density, area, GPM, and PSI		
Geo-technical/ Soils Report	For new buildings, additions, poor soils conditions, slope stability, impacts to foundations, seismic upgrade, etc.		
NECD Frame Code	9:36 see 9:36 energy code user guide and residential checklist for requirements on drawings		
NECB Energy Code Documents	■ NECB SUMMARY SHEET: Summary sheet is required for all NECB submissions		
	■ NECB EXCEL COMPLIANCE WORKSHEET: Required for all NECB submissions.		
	All calculations for any trade off or prescriptive analysis to show conformity to the code must be available upon request		
	■ NECB PART 8: A second model will be required to show that the energy use of the changes during		
	construction have been accounted for.		
	■ See each section above for details required on drawings		
Alternative Solutions	■ Provide an alternative solution form if your design does not comply with Division "B" acceptable		
Form	solutions. This must include all reference to the Functions and Objective statements.		
Supporting Docum			
Additional Applications	Development, demolition, building, electrical, plumbing, heating, and sprinkler permits, Alberta Health Services Approval (Restaurants), and any business licenses		
Fire Alarm Verification	A fire alarm verification report is required prior to occupancy being granted. This verification must be completed by an approved agency other than the installer. The Fire Alarm Verification shall be witnessed by the Electrical Professional Engineer of Record.		
Engineered Designs	All roof truss, floor joist, beam and lintel designs, and any engineering use to support the required drawings.		
Compliance with this c	ode shall be achieved by complying with the applicable solutions in Division B or using alternative soluti	ions that wil	Lachiovo

Compliance with this code shall be achieved by complying with the applicable solutions in Division B or using alternative solutions that will achieve at lease the minimum level of performance required by Division B in the areas defined by the objections and functional statements attributed to the applicable solutions (see Alternative Solutions Form above).