



Residential Building Permit Checklist

UNCOVERED or COVERED DECK

The following **must** be indicated on your drawings or the application may **not** be accepted for processing.

Address of project:		Name of applicant:	
Address of applicant: (if different than above)		Type of deck:	Covered Uncovered
		Location:	Back yard Side yard Front yard

SITE PLANS		
(digital file*, drawn to scale & dimensioned, legible)	☐ Yes	
Property lines and dimensions	☐ Yes	
Existing buildings, boundaries, distances to property lines and to adjacent buildings on same property	☐ Yes	
<i>For covered decks only:</i>		
Roof eaves, overhangs sizes	Yes	N/A
Location of gas & electric meters	☐ Yes	

CONSTRUCTION DRAWINGS	
(digital file* drawn to scale & dimensioned)	☐ Yes
Foundation: Deck beams, piles and/or pads size and spacing. Beam splices must be shown or located directly over supporting posts. Posts must be 6X6" min (140X140mm) unless calculations provided to show that lesser sizes are adequate. Note proposed frost cover. Southlands neighbourhood requires minimum 2.1m of frost protection.	☐ Yes
Construction details: Joist size & spacing, deck board thickness, hanger locations, ledger attachment, midspan blocking.	☐ Yes

CONSTRUCTION DRAWINGS (cont.)	
Guardrail and/or handrail heights. Stairs and guardrail construction details, including material (wood/metal).	☐ Yes
<i>Covered decks only:</i>	
Roof joist/truss sizes and O/C spacing, roof slope, roofing material, roof connection to house, beam pockets (if req'd), beam and post sizes, distance between support posts.	Yes N/A
<i>Aluminum or pre-manufactured roof only:</i>	
Copy of manufacturer's specifications are provided.	Yes N/A
<i>Enclosed undersides only:</i>	
Groundcover noted, ventilation grills noted, framing material noted.	Yes N/A

MISCELLANEOUS	
<i>Premanufactured components only:</i>	
Engineering details for premanufactured roof and joist components which are not covered by Part 9 of the National Building Code - 2023 Alberta Edition.	Yes N/A

*Accepted file formats: PDF, JPG, PNG, TIF

UNCOVERED DECK

Deck length (feet / in.):

Deck width (feet / in.):

DECK FLOOR

Joist size (eg. 2X8):

Joist Spacing O/C:

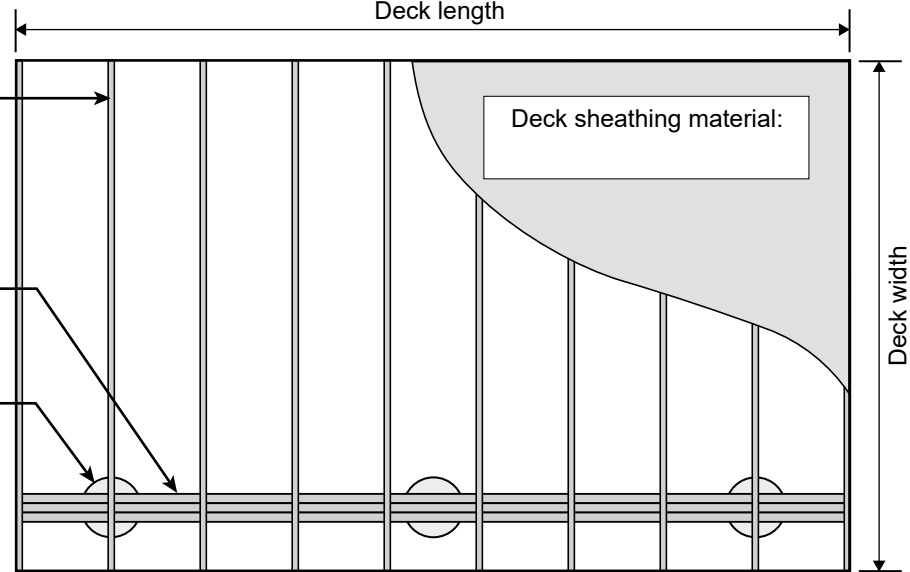
Beam size (eg. 3 ply 2x8)

Number of piles:

Diameter:

Spacing O/C:

Ledger board attachment details
(eg. 1/2" lag bolts @ 18" O/C)



PLAN VIEW

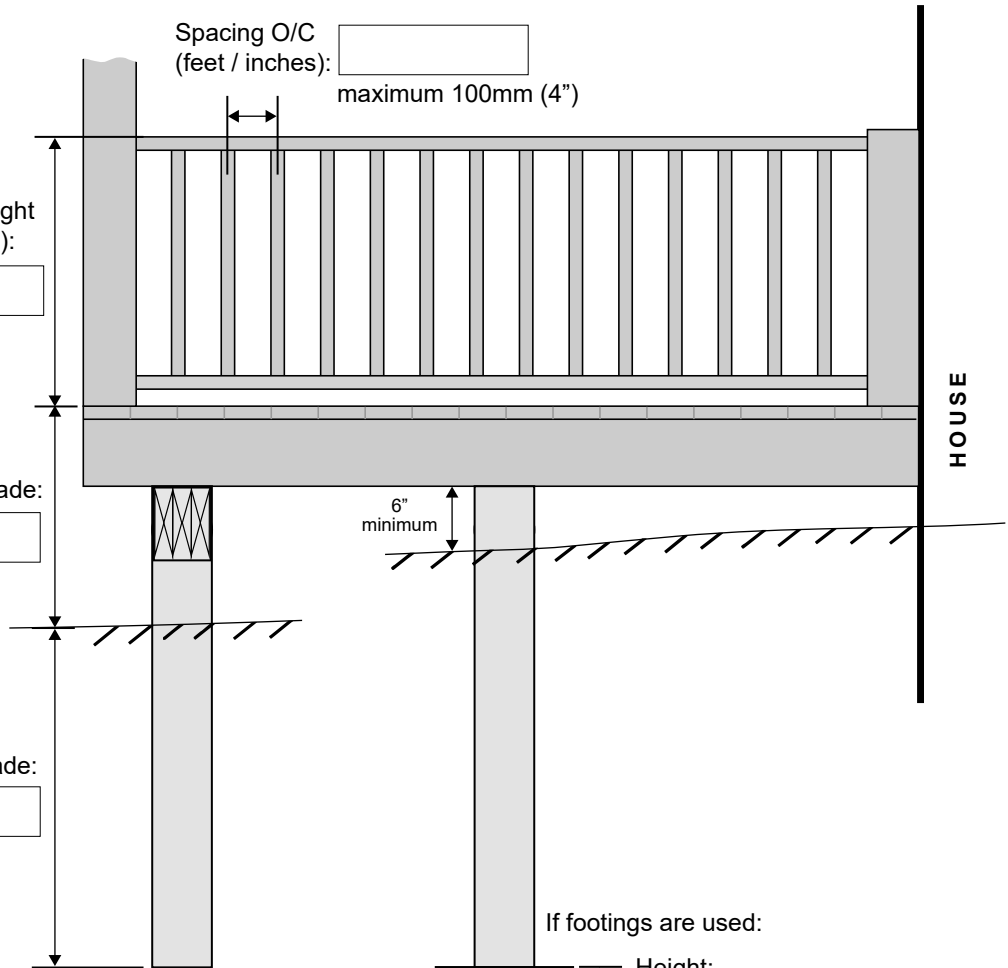
Spacing O/C (feet / inches):
maximum 100mm (4")

Guardrail height (feet / inches):

Height above grade:

Depth below grade:

minimum 1.5m (5')



ELEVATION VIEW

If footings are used:

Height:

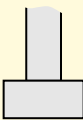
Width:

Post size:

(eg. PWF 6x6)

Post type:

☐ Footings and piles



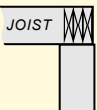
or

☐ Piles



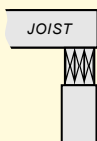
Beam type:

☐ Flush beam



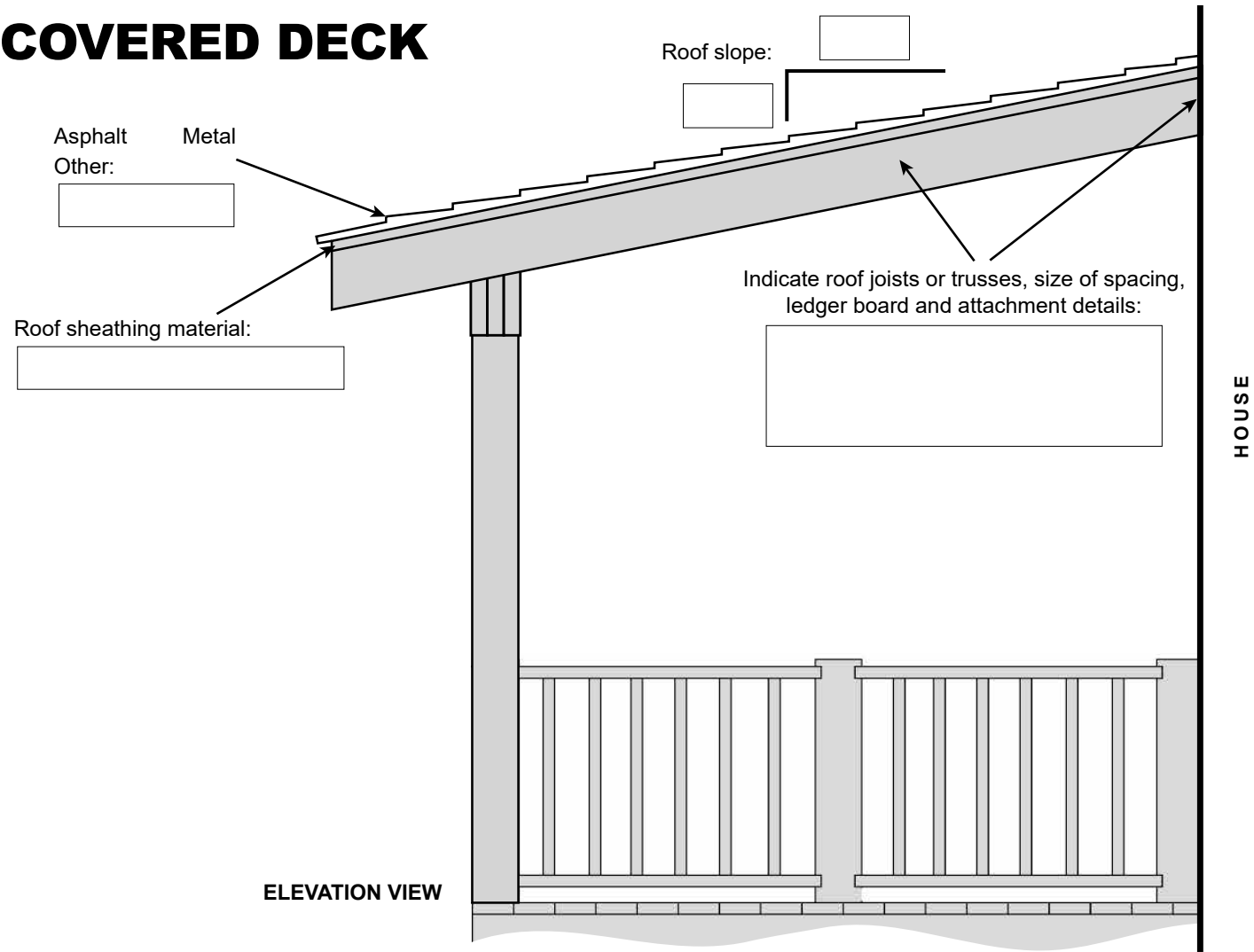
or

☐ Drop beam

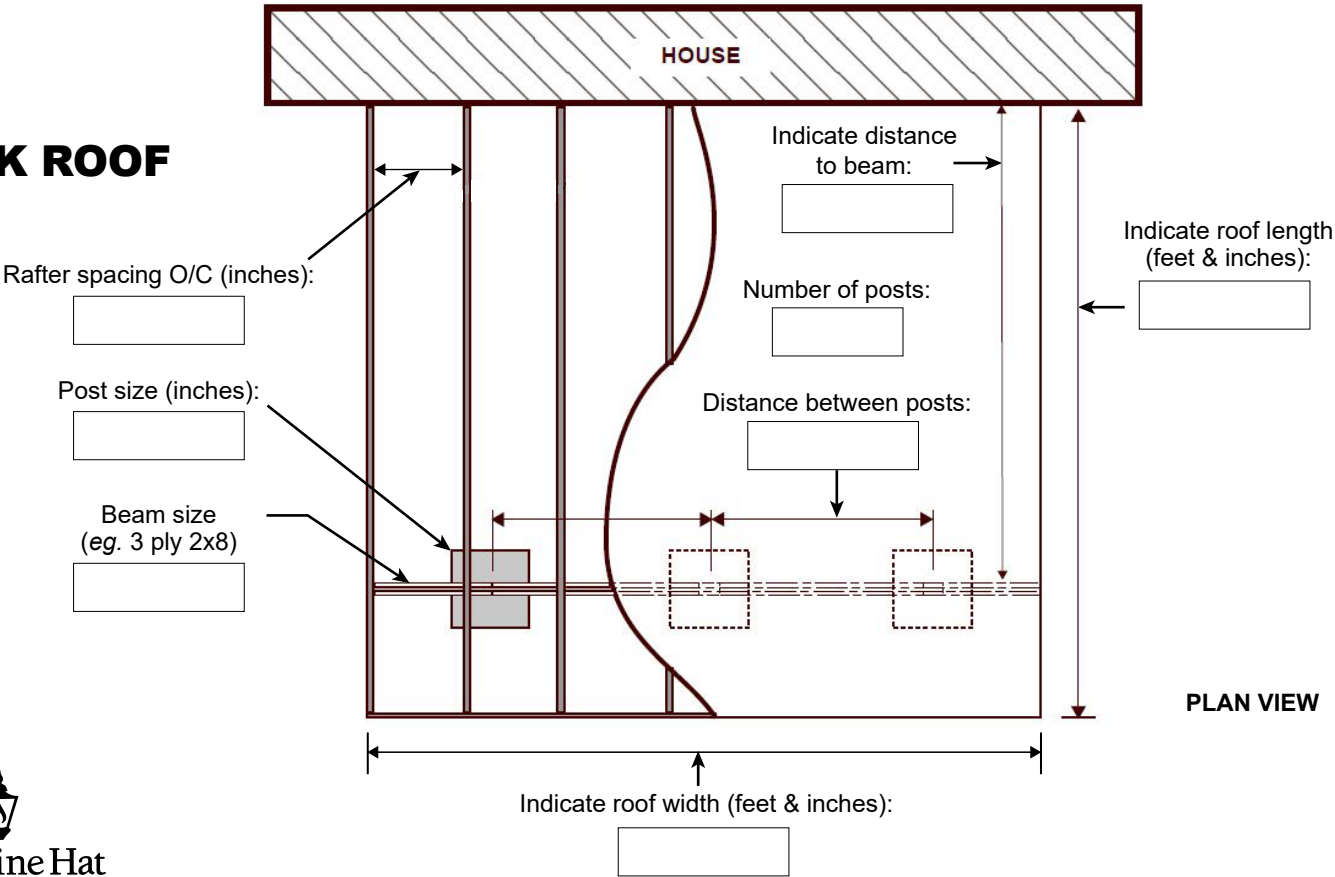


Medicine Hat

COVERED DECK



DECK ROOF



ADDITIONAL DETAILS & TABLES



Medicine Hat

Planning & Development Services
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Disclaimer: The City of Medicine Hat gives no warranty nor accepts liability from any incorrect or incomplete information, or its use for any purpose.

Deck Pile, Beam and Joists Table

This table is a guide only and may be used for rectangular decks that include a ledger to the building and one beam line.

Column (pile) Spacing in Feet - Intermediate Pile Only

Distance in Feet Between Piles - The Loading on each end pile would be half of that on the Intermediate Pile

Deck Joist Span in Feet (Distance deck is away from the building)													Joist Depth, spacing and bracing Lumber is #2 & Better S-P-F
	2	3	4	5	6	7	8	9	10	11	12		
4	200	300	400	500	600	700	800	900	1000	1100	1200	2x6 @ 16" o/c w/strapping	
5	250	375	500	625	750	875	1000	1125	1250	1375	1500		
6	300	450	600	750	900	1050	1200	1350	1500	1650	1800		
7	350	525	700	875	1050	1225	1400	1575	1750	1925	2100		
8	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400	2x8 @ 16" o/c w/strapping	
9	450	675	900	1125	1350	1575	1800	2025	2250	2475	2700		
10	500	750	1000	1250	1500	1750	2000	2250	2500	2750	3000		
11	550	825	1100	1375	1650	1925	2200	2475	2750	3025	3300		
12	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600	2x10 @ 16" o/c w/strapping	
13	650	975	1300	1625	1950	2275	2600	2925	3250	3575	3900		
14	700	1050	1400	1750	2100	2450	2800	3150	3500	3850	4200		
15	750	1125	1500	1875	2250	2625	3000	3375	3750	4125	4500	2x12 @ 16" o/c w/strapping	
16	800	1200	1600	2000	2400	2800	3200	3600	4000	4400	4800		
	2ply 2x6					2ply 2x8		3ply 2x8 2ply 2x10	3ply 2x8 3ply 2x10 2ply 2x12	3ply 2x10			

Minimum Deck Beam Size - Lumber is #2 & Better Spruce-Pine-Fir

Pile Sizes & Capacities

Diameter	Capacity	Area (sqft)
8	803	0.35
10	1,254	0.55
12	1,806	0.79
14	2,459	1.07
16	3,211	1.40
18	4,064	1.77
20	5,017	2.18
24	7,225	3.14

A rectangular deck 8'x16'

Piles - 12" dia at mid point
- 10" dia at end points
Beam - 2-2x8 #2 SPF
Joists - 2x6 or 2x8 SPF @ 16" o/c

Piles for Uncovered Decks

The bearing surface area
of various pile sizes:

"A"	"B"	"C"
9"	0.44 sq. ft.	1012 lbs./pile
10"	0.54 sq. ft.	1242 lbs./pile
12"	0.78 sq. ft.	1794 lbs./pile
16"	1.40 sq. ft.	3210 lbs./pile

An 8" pile has a footprint of 0.35 sq. ft. and will support a maximum of 805 lbs./pile

