Solar Panels - PBI Specifications

Professional Building Inspections, Inc.

Owner Name: _____ Municipality: _____

Owner: (Cell) _____ (H) _____ Jobsite Address: _____

Solar Photovoltaic (PV) or Water Heating (SHW) Installation

(1) Provide the following documents with your application, where applicable:

☐ **Product listing** from supplier(s) verifying that all components to be installed are **CAN/ULC certified**.

☐ **Manufacturer specifications** for PV and/or SHW components (i.e. design and installation requirements).
*** Note that SHW systems must be installed in accordance with Saskatchewan Plumbing Regulations.
Battery storage, if applicable, must indicate ventilation & space clearance requirements.

☐ **Electrical line diagrams** for solar PV installations. **(NOTE: Commercial installations require P.Eng. seal)**
*** Note that all solar PV installations require an **electrical permit** from SaskPower.

☐ **Roof truss** designs (engineer-stamped) or letter from a Structural Engineer (project-specific).
Engineer designs or letter must indicate: (a) that their review conforms to NBC 2015 - Part 4, (b) anticipated dead loads (e.g. weight of panels, supports and racking), (c) anticipated live loads (e.g. snow and wind loads for the area), (d) maximum anticipated point load on framing members, (e) maximum panel array height above surface of roof (re: uplift and forces on mounting attachments), and (f) additional structural information relevant to the project.

☐ **Roof-mount plan and layout**, indicating: (a) roof surface type and dimensions, (b) panel and anchor layout, noting dimensions, spacing and weight, (c) method of attachment, (d) distance between roof surface and underside of panels, if parallel-mounted, (e) maximum height above roof ridge, if tilt mounted, (f) racking/rail lengths and details (g) flashing and sealant type, (h) provisions for fire fighting, and (i) additional structural information relevant to the project.

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(2) Complete the information below regarding the proposed installation:

Installation (Building or Property Type):
☐ Residential ☐ Commercial ☐ Industrial

Solar Panel Type: (Select all that apply)
☐ Photovoltaic ☐ Water Heating ☐ _____

Solar Service Type: (Select all that apply)
☐ Grid-Tied ☐ Battery Storage (off-grid)
☐ Water Heating ☐ _____

Mounting Location:
☐ Roof (sloped) ☐ Roof (flat) ☐ Canopy
☐ Ground ☐ Pole ☐ _____

Foundation Type (for ground, pole or canopy):
☐ Concrete Piles ☐ Screw Piles ☐ Concrete Slab
***** Engineer-stamped foundation designs are required.**

Panel Orientation
☐ Portrait ☐ Landscape ☐ _____

Mounting Type:
☐ Flush ☐ Parallel ☐ Ballasted
☐ Fixed Tilt ☐ Tracking ☐ _____

If Tilted, Maximum Height above Roof Ridge:
☐ _____

Roof Truss or Rafter Spacing:
☐ 16" o.c. ☐ 24" o.c. ☐ _____

Roof Trusses or Rafters:
☐ Solar Ready Roof Trusses (Engineered)
☐ Roof Trusses (Engineered but not built solar ready)
☐ Rafters
☐ _____

Name of Truss Manufacturer or Engineer:
☐ _____

Roof Slope (Pitch): (e.g. 4/12) ☐ _____

Roof Sheathing Type & Thickness:
☐ OSB ☐ Plywood ☐ _____
☐ 3/8" ☐ 7/16" ☐ _____

Roof Surface/Shingle Type:
☐ Asphalt ☐ Metal ☐ _____

Array Directly Fastened To:
☐ Truss/Rafter ☐ Blocking ☐ _____

Racking Type:
☐ Railed ☐ Rail-free ☐ Shared-rail