



## **ASTON TOWNSHIP SOLAR ARRAY PLAN REVIEW REQUIREMENTS**

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**All information submitted shall comply with the International Residential Code 2009, Chapter 23, and the International Building Code 2009 and the NEC 2008 for Commercial.**

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### **Provide Signed/Sealed Roof Load Calculations When Installing on a Roof.**

1. Report, with photographs, documenting the condition of the roof framing.
  2. Calculations for rafter roof framing, demonstrating that the existing rafters are not over stressed and will carry the imposed loads (IRC Table 802.5.1 (1-7)).
  3. Full truss calculations for all truss framed roofs.
  4. Provide a complete electrical schematic of the PV array and all interconnections with other systems.
  5. Structural Design professional shall be licensed in the state of Pennsylvania.
  6. Show all required labeling to be applied to solar equipment.
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### **Inspections for Roof Mount Solar Panels.**

Plan review including roof inspection to confirm site/rafter conditions and findings of solar contractor, prior to approval of building permit (owner contact information required on application).

1. Inspection of attachment of rail mounting system while installing rails confirming attachment to center of rafters (no splitting of rafters where sistering will be required).
  2. Building & Electrical final when project complete contractor to meet on site to open all panels for inspection.
  3. Please call 610-494-0384 for inspections.
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### **Provide the Following for Ground Mounted Solar PV Array.**

1. Site drawing showing existing structures and impervious surface, with the proposed PV array shown.
  2. Number, size, depth and type of footings for the PV array mounting frame.
  3. Design of PV array mounting frame (mfr's cut-sheets).
  4. Provide a complete electrical schematic of the PV array and all interconnections with other systems.
  5. Location and distance of incoming electric service from solar array.
  6. Size and type of service cable from PV array to service panel.
  7. Conduit size and type (if used).
  8. Design professional shall be licensed in the state of Pennsylvania.
  9. Show all required labeling to be applied to solar equipment.
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### **Inspections for Ground Mount Solar System.**

1. Setback: side and rear yard minimums are met.
2. Footing: after excavation rebar in place per plan & prior to pouring concrete.
3. Electrical: rough and at final.
4. Final: Building and Electrical final when complete.
5. Please call 610-494-0384 for inspections.