1 Schematic

\Box Setup

- \Box Has DRC been configured?
- \Box Has a grid size been picked?
- \Box Has a paper size been selected for sheets?

\Box Symbols

- $\hfill\square$ are explicit and informative
- \Box resemble electrical circuit symbols
- $\hfill\square$ reflect functionality or logical structure of the component
- \Box Pins are assigned the correct type (passive, power, in, out, etc.)
- $\hfill\square$ Are active-high and active-low marked consistently?
- \Box Are power and ground pins consistently placed and marked?
- \Box Are mating connectors on different boards matched in pin-out?
- \Box Check all pin numbers for custom generated parts

\Box Electrical

- \Box Are reset pins pulled to high/low?
- \Box Is reset filtered?
- \Box Are polarized components protected against reverse voltage?
- \Box Are resistors operating within the specified voltage/power range?
- \Box Acceptable net connections are followed
- \Box Power and ground symbols are correctly used (earth vs. chassis vs signal)
- \Box Testing
 - \Box Are there ground connection points for probes?
 - \Box Have necessary test points been added?
- $\hfill\square$ Documentation
 - $\hfill\square$ Unpopulated parts are clearly labeled
 - $\hfill\square$ Are destinations noted if they go to other sheets?
 - \Box Has special PCB or layout requirements been noted?
 - Ground planes
 - keep-out
 - routing
 - references to datasheet's recommendations

 $\hfill\square$ Notes and boxes are used to provide clarity

 \Box Drafting

- $\hfill\square$ No overlap between text, notes references, wires, symbols etc.
- $\hfill\square$ All wire turns are at least one grid square from component pins
- \Box Consistent font size used throughout
- \Box Components are evenly spaced on drawing
- \Box Is all text Horizontal?
- $\hfill\square$ Do all components have reference and value?
 - Are all values in a uniform format?

- Are references using standard designators?
- Are references placed unambiguously?
- Are decimal points avoided?
- \Box Are all junctions dotted?
- \Box Are non-connects marked?
- $\hfill\square$ No 4-way connections
- $\hfill\square$ No upwards pointing ground symbols
- \Box Are component references ordered by schematic layout?
- \Box Are Power nets connected? (Vcc, Vss, Vdd)
- \Box Are net names on top of lines?
- \Box Are unused nets left unlabeled?
- $\hfill\square$ All connections/markings have a purpose
- \Box Sheet
 - \Box Sheets are consistently sized
 - \Box Readable when printed
 - $\hfill\square$ Logical layout, left to right and then top to bottom
 - $\Box\,$ header block is complete
 - Name of author
 - Name of reviewer
 - Revision information
 - Date
 - Company/organization
 - Drawing number and sheet number

 \Box Did DRC pass cleanly?