1. Piping preferred to be black steel Schedule 40 threaded or grooved. Grooved mechanical joints shall be Victaulic or Grinnell Gruv-lok only. Plastic piping may be considered. Copper piping permitted only in areas susceptible to magnetic fields.

2. Provide adequate drainage locations to outside of buildings for testing and draining all portions of sprinkler systems. Coordinate suitable locations for exterior drains that accommodate full flow without damaging building or landscaping.

3. For all projects, an Independent Fire Protection Consultant shall be engaged by the University Project Manager to assess sprinkler system design compliance with FM Global versus NFPA requirements. The specialty consultant shall provide a report to the University providing guidance on the level on protection required for projects and facilities.

4. The U of A fire protection systems shall meet the latest applicable BFPA codes as modified by the U of A authority or the City of Edmonton Fire Department policy in effect at the U of A.

5. Sprinkler system shall be hydraulically designed by the sprinkler engineer with shop drawings (sealed and signed by a professional engineer practicing in the Province of Alberta and assuming full responsibility for the installed system) submitted showing all piping and sprinkler head locations. Submit detailed installation drawings and design calculations for approval to the Consultant and the University of Alberta project manager to review, prior to commencing work. No work shall commence prior to obtaining approved drawings from this authority. The sprinkler professional engineer shall supply all building code scheduling and submit to the University of Alberta Project Manager.

6. Information on water supply available for firefighting must be obtained from University of Alberta Utilities.

7. All piping and system components must be fully accessible for maintenance purposes.

8. Alarm only emergency conditions-do not alarm test conditions.

9. All buildings shall be fully sprinklered. In general, where a renovation occurs in a building not currently sprinklered, the renovated area is to be brought up to current code. Confirm requirements with project manager prior to design.

10. The sprinkler piping layout shall generally follow the tree system. Crossmains shall be continuous in size from the connection at the standpipe to the end of the run. Crossmains shall be a minimum of 50 mm (2”NPS) in light hazard areas and 80 mm (3”NPS) in ordinary hazard areas.
11. Design mechanical rooms as Ordinary Hazard Group I. Design library spaces and laboratories as Ordinary Hazard Group II.

12. Pressure gauges to have dual scales; PSI and kPa.