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1) Desktop PCs
   a. (45) standard PCs suitable sized to run MS Office 2016
   b. (5) high end PCs well suited to run AutoCAD 2017
   c. PC OS must be 64 bit and able to fully join an Active Directory domain
2) Fully managed switches capable of Gig speed
3) UPS devices for all servers, PCs, routers, switches, but not printers.
   a. Must be calculated to give at least 60 mins runtime
4) (4) Servers
   a. (2) Windows Server 2016
      i. Redundant domain controllers
      ii. Local forest root
   b. (1) Member server
      i. Local backup solution for all servers except Web
   c. (1) Web server
      i. In a DMZ
   d. Common to all servers
      i. Fault tolerant disk strategy
      ii. Mounted in a single rack
         1. Detailed specifications of the rack
5) Internet
   a. Redundant feed
   b. Firewall
6) Administration
   a. Network monitoring solution
      i. Include hardware and software
   b. Naming conventions
      i. PCs
      ii. Servers
      iii. Routers / switches
      iv. Usernames
   c. IP Address Scheme
      i. Must not conflict with the Main Office and must use IP Space wisely
   d. Document Policies/Procedures/Guidelines for these items:
      i. Individual unique accounts per user
      ii. Password complexity standards
      iii. Minimum necessary resource access permissions
      iv. Prohibit account sharing

7) Connectivity to Main Office
   a. 10 Mbps min point to point solution
   b. The IP scheme of the main office is 172.16.0.0/16
8) Common to all
   a. No consumer grade equipment or software
   b. Open source is acceptable unless specified otherwise
   c. More detail is better
      i. Include Visio diagrams
         1. Assume a data center, wire closet(s), and cubicles
   d. The cost must not exceed $95,000, but any costs beyond $60,000 need to be justified and explained.

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