**HGA**

**RPN**

**HGA**

**HGA**

**RPN**

**HGA**

**APN**

**BRG**

**MOD**

**FWL**

**HGA**

**HGA**

**WKS**

**WKS**

**WKS**

**WKS**

**WKS**

**WKS**

**8SW**

1,000 FEET

Brett Worley

CEG-2400-01

**Lab 8 - Wireless Extension of Existing Network – (20 Points)**

**Submit the completed assignment to the Lab 8 Dropbox in Pilot**

**THIS IS AN INDIVIDUAL PROJECT – PLEASE DO NOT WORK IN GROUPS**

Instructions: Place the following items in the provided diagram. Pay careful attention to the connectivity between items. Be sure to use the provided abbreviations when labeling the diagram.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item** | **Abbreviation** | **Quantity** | **Unit Cost** | **Final Cost** |
| Dell Workstation | **WKS** | 6 | $799 | $4794 |
| 23dbi Directional Antenna | **HGA** | 4 | $115.99 | $463.96 |
| Wireless N Amplifier | **WAM** | 2 | $179.99 | $359.98 |
| Motorola Surfboard | **MOD** | 1 | $94.10 | $94.10 |
| Astaro Security Appliance | **FWL** | 1 | $450.00 | $450.00 |
| 8 Port Gigabit Switch | **8SW** | 1 | $60 | $60 |
| Wireless N - Bridge | **BRG** | 1 | $90 | $90 |
| Wireless N - Access Point | **APN** | 2 | $90 | $180 |
| Hawking WiFi N repeater | **RPN** | 7 | $189.99 | $1329.93 |
| Various Cabling Allowance | N/A | N/A |  | $200 |
|  |  |  | TOTAL | $8021.97 |