

| ID | Task Name   | Predecessors  |
|----|---|---------------|
| 1  | <b>Communications Infrastructure -- For All Sites</b> |               |
| 2  | <b>Requirements</b>                                   |               |
| 3  | Throughput/Performance Requirements                   |               |
| 4  | Equipment Locations                                   |               |
| 5  | Wireless Coverage Areas                               |               |
| 6  | Other Requirements (voice/video/other)                |               |
| 7  | Drops/Electrical Locations                            | 4,5,6         |
| 8  | <b>Survey As-Built</b>                                |               |
| 9  | Fiber Plant   |               |
| 10 | Communication Rooms/IDFs                              |               |
| 11 | Copper Plant  |               |
| 12 | Network Equipment                                     | 10            |
| 13 | Electrical/UPS  | 10            |
| 14 | <b>Survey Wireless</b>                                |               |
| 15 | Coverage Requirements                                 | 5             |
| 16 | Cabling Feasibility                                   | 10            |
| 17 | New IDF Requirements                                  | 16            |
| 18 | Bridging Requirements                                 | 17            |
| 19 | Antenna Requirements/Arrestors                        | 17,18,16      |
| 20 | Mounting Requirements                                 | 19            |
| 21 | <b>Conceptual Design</b>                              | <b>2,8,14</b> |
| 22 | Fiber Plant Improvements                              | 16            |
| 23 | Switch and Router Topology                            | 17            |
| 24 | <b>Detailed Design</b>                                | <b>21</b>     |
| 25 | VLANS   |               |
| 26 | IP Addressing   |               |
| 27 | Failover Configs                                      |               |
| 28 | Distribution Modules                                  |               |
| 29 | <b>Procurement</b>                                    | <b>14,21</b>  |
| 30 | <b>Conduit/Innerduct/Cable/IDFs</b>                   |               |
| 31 | Materials   |               |
| 32 | Labor   |               |
| 33 | Switches, Routers, Interfaces                         |               |
| 34 | Wireless Components                                   |               |
| 35 | <b>Implementation/Test Plan</b>                       |               |
| 36 | Cabling SoW   | 14,21         |
| 37 | Network Migration Plan                                |               |
| 38 | Change Control  |               |
| 39 | Coordination/Notification                             |               |
| 40 | Implementation and Test Procedure                     |               |
| 41 | <b>Implementation</b>                                 | <b>29,36</b>  |
| 42 | Cabling/Electrical                                    |               |
| 43 | Termination/IDFs and Racks                            |               |
| 44 | Certification   |               |
| 45 | Racking and Stacking                                  |               |
| 46 | Configuration and Testing                             |               |
| 47 | Re-IP Addressing                                      |               |
| 48 | Punch List and Clean Up                               |               |
| 49 | User Sign Off   | 48            |
| 50 | <b>Monitoring</b>                                     | <b>46</b>     |
| 51 | Instrumentation                                       |               |
| 52 | Asset Management                                      |               |
| 53 | HD Specifications                                     |               |
| 54 | Level 3 Support                                       |               |