

Commercial CAT6 Network Infrastructure Installation

Independent Commercial Project | Contractor Network Service LLC | 2025



Completed rack-mounted network infrastructure with labeled patch-panel positions, managed switch, power distribution and business gateway.

14

CAT6 NETWORK
CONNECTIONS

7

OFFICES
SERVED

1 YEAR

LABOR
WARRANTY

0

WARRANTY
CALLBACKS

Project Overview

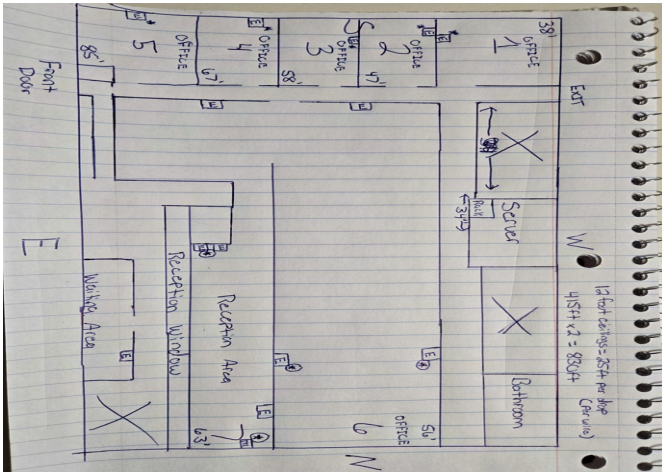
Through my existing LLC, I independently contracted and completed a structured-cabling upgrade for an independently owned AAA insurance office. This was my first professional network installation, but I entered the project with a working understanding of networking fundamentals and the logic behind structured cabling. I managed the work from initial customer discussions and bidding through site survey, material procurement, installation, testing and final delivery.

The customer required two CAT6 connections in each of seven offices. I removed the old network infrastructure, planned new cable routes, installed and routed the cabling, terminated and labeled the endpoints, assembled the rack-side infrastructure, and verified every connection before turnover.

Planning & Implementation

Site Survey & Scope

I surveyed the office, documented room dimensions and outlet locations, identified the server/rack area, and mapped practical cable routes. The resulting plan supported material estimates, project pricing and the installation sequence.



Original field sketch used to plan office drops, routing and approximate cable requirements.

Cable Routing & Rack Build



Left: CAT6 runs being routed through the office ceiling space. Right: rack, patch panels and switch installed while cable runs were being brought into the network area for termination.

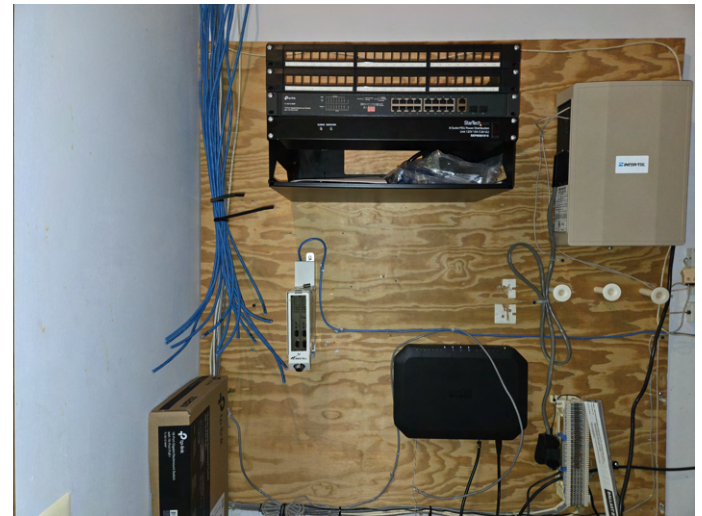
I estimated and purchased the required materials, routed the new cable runs through the building, organized the runs as they entered the network area, installed the rack and patch-panel hardware, and prepared each connection for final termination and labeling.

Existing Infrastructure



Existing network area before the new structured-cabling installation.

The job included removal of the previous network cabling and replacement with a cleaner, labeled CAT6 system designed for easier identification and future maintenance.



Termination, Verification & Results



Endpoint Identification

Each office received two labeled CAT6 ports. Port identification at the wall plate corresponded with the central patch-panel labeling, making the finished system easier to trace and maintain.

Testing & Troubleshooting

I tested every installed connection before project turnover. One run failed verification because of an improper termination. I isolated the fault, corrected the termination and successfully retested the connection before completing the job.

Project Outcome

The installation was completed promptly and neatly within the agreed project scope. I provided a one-year labor warranty in addition to applicable manufacturer warranties. No service calls or corrective work were required during the labor-warranty period.

Completed Installation



Final network area showing the completed rack installation and organized cable entry alongside existing communications infrastructure.

Skills Demonstrated

Customer Consultation	Site Survey	Estimating & Bidding	Material Procurement
CAT6 Structured Cabling	Cable Routing	Termination	Patch Panels
Rack Installation	Labeling	Network Testing	Troubleshooting
Project Ownership	Warranty Support		