

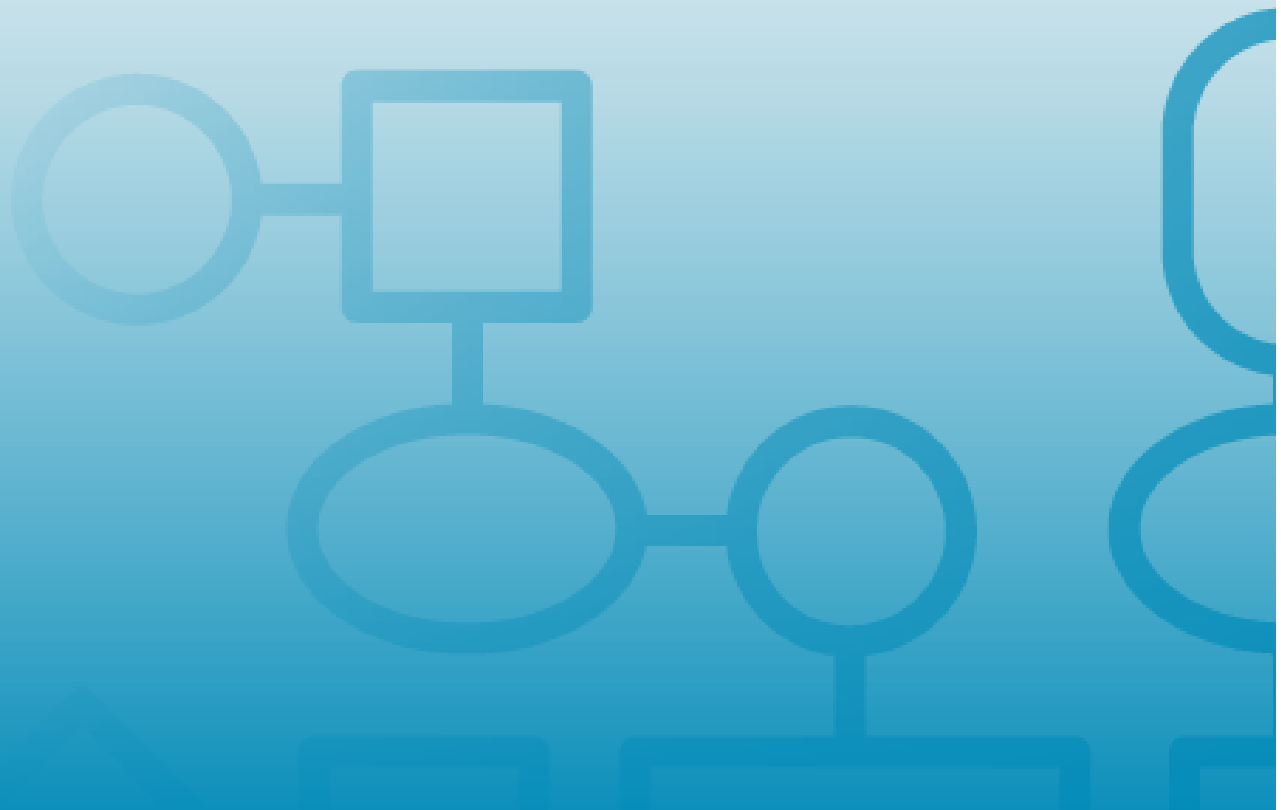
PRESIDIO

SERVICE CENTER DATA CABLING

PROPOSAL

City of Mansfield

September 29, 2014



PROPOSAL TEAM

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REVISION HISTORY

Revision	Revision Date	Name	Notes
1.0	09-29-2014	Rick Tanner	Proposal

Notices:

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1. EXECUTIVE OVERVIEW

The City of Mansfield has requested Presidio Networked Solutions Group LLC, or “Presidio” to provide a budgetary proposal for cabling services installation for their facility located at:

City of Mansfield Service Center

0000 South Wisteria St

Mansfield, Texas

Presidio proposes to provide a data cabling installation that will be warranted by Leviton for a period of twenty years.

2. SCOPE OF WORK

2.1. Planning Scope of Work

Proposed cabling design is based on provided drawings, site meetings, and recommended Presidio cabling design.

2.2. Execution Scope of Work

Presidio will perform the following tasks:

- Presidio will install approximately two hundred seventy six (276) Cat 6 data runs, fiber and copper backbone, and MDF build out services. Details are as follows:

Horizontal Cable Installation

- Presidio will install two hundred seventy six (276) new Cat 6 data runs. The data runs will be a combination of dual runs to office/cubicle locations, Wi-Fi, surveillance, and overhead paging runs.
- Prior to installation, Presidio will install j hook pathway above the drop ceiling. Per industry standards, j hooks will be placed 4'-5' apart, not to exceed 5'.
- All data runs will be routed through the drop ceiling area and secured, with Velcro, in the j hook pathway.
- At each location, Presidio will route the data runs down the interior wall through existing conduit or power poles.
- Data runs will be terminated with Cat6 RJ45 inserts and secured in wall mount face plates.

- The surveillance data runs will be terminated above the drop ceiling with Cat 6 RJ 45 inserts and secured in two port surface mount boxes. A 15' service loop will be supplied for each of these runs.
- The wireless access data runs will be terminated above the drop ceiling with Cat 6 RJ 45 inserts and secured in two port surface mount boxes. A 15' service loop will be supplied for each of these runs.
- Wi-Fi runs in the warehouse/service bay areas will be routed through a Presidio installed conduit system. Access points will be installed on junction box endpoints at each data runs.
- Access points will hang horizontally in designated areas according to the attached predictive wireless surveys.
- Data runs for overhead paging speakers will be routed in conduit in a similar fashion as the Wi-Fi data runs.
- At the MDF end, all data runs will be routed into the respective two post rack and terminated with Cat6 RJ 45 inserts. Data runs will be secured in 48 port modular patch panels.
- Presidio will test and label all data cabling according to City of Mansfield IT standards.

TIE CABLE INSTALLATION

- Presidio will install one 12 strand SM fiber optic cable from the Main Building MDF to four additional IDF locations.
- Fiber optic cable to be routed between buildings will be installed in contractor installed underground conduit.
- Prior to fiber installation, Presidio will provide and install 3" 3-cell MaxCell in the underground conduit system. MaxCell will be installed per manufacturer installation standards.
- Fiber runs that will be routed in plenum space will be routed through a separate j-hook pathway in the drop ceiling area.
- Where necessary, Presidio will install conduit to extend the fiber in warehouse/service bay areas.
- All fiber optic cables will be fusion spliced with 12 strand pigtails and secured in a rack mount fiber LIUs.

MDF BUILDOUT

Presidio will provide labor and materials to build out the new MDF as follows:

- Presidio will install fire rated, painted 4'x8'x ¾" backboard throughout the MDF.
- Presidio will provide and install a grounding busbar in the MDF. The busbar will be ground to a provided main ground wire to be installed by the general contractor.
- Presidio will install an 18" ladder rack system in the MDF to provide cable routing support. Presidio will wrap the interior walls of the MDF and provide a transition ladder rack to the rack system described below.
- Two 2 post racks will be provided and installed in the MDF. Racks will be secured to the floor and to the ladder rack system described above.
- Presidio will provide and install rack to runway waterfalls to aid in cable transition.
- In the racks, Presidio will provide and install vertical and horizontal wire management per City of Mansfield standards.

IDF BUILDOUT

- Presidio proposes to install four additional IDF cabinets throughout the service center in order to provide adequate connectivity.
- Presidio will install one in the Main Building storage area, two in the Gatehouse building, and one in the HHW building.
- In each case, Presidio will install a wall mount Thin Line cabinet per industry standards.
- As previously mentioned, Presidio will extend fiber from the MDF to each IDF.
- Presidio will provide and install a grounding busbar at each IDF location.
- Horizontal cabling will be extended to each IDF per specifications described above.
- Exact locations will be determined prior to install.

ADDITIONAL SERVICES

- Upon completion of the data cabling installation, Presidio will provide MDF, IDF, and user end copper patch cords.
- Presidio will provide SM fiber patch cables for fiber optic services connection.
- Presidio will install wireless access points in designated locations.

GENERAL CONTRACTOR RESPONSIBILITIES

The general contractor of record will be responsible for the following:

- All conduit and junction box installs for wall terminated data cabling.
- All conduit and junction box installs for exterior wall surveillance data runs.
- All power required for MDF, IDF equipment connectivity. Presidio will provide precise specifications prior to commencement of project.
- All underground conduit to extend fiber optic cabling between buildings.
- All conduit to extend access control and data cabling to exterior gate locations.
- All conduit and 110 power for access control gate substations.

In a separate document, Presidio will provide the City of Mansfield with specifications for all conduit to be installed by the general contractor for data use.

Labeling

- All labels will be adhesive P-Touch or laser-type labels (white backing with black letters).
- Each cable will be assigned its own ID number or name according to Wing IDF. All patch panels, if installed, will in turn have matching circuit ID numbers on each end. The ID numbers will be provided by City of Mansfield.

Testing and Certification

- All circuits will be tested and certified to meet industry standard requirements for the media installed. These requirements include, but are not limited to:
 1. Wire map
 2. Impedance
 3. Length
 4. Resistance
 5. Attenuation
 6. Crosstalk
 7. Opens, shorts, grounds, and pair reversal

2.3. Change Management Process

Any change request will be considered an addendum to this proposal and will be performed accordingly.

3. ASSUMPTIONS

The following project assumptions are made and will be verified as part of the Systems Engineering & Planning scope of work:

1. Presidio understands that several visits to the site may be necessary to complete the work, so it is important that Presidio discuss the City of Mansfield's schedule as soon as Presidio agrees to start this work.
2. Notification of changes to the City of Mansfield's schedule needs to be communicated to Presidio's Project Manager in writing within 24 hours of the change and Presidio will reschedule all required resources on a best effort basis once notified of the schedule changes. Notification may be made via email or facsimile to the City of Mansfield's Project Manager or to the Presidio point of contact for this project. The change order process is not complete and no change will become effective until City of Mansfield issues a POCN to vendor.
3. City of Mansfield will ensure that the work environment is 100% free of hazardous materials and 100% free of asbestos. City of Mansfield will certify that project manager will notify Presidio of any and all known safety issues and/or hazardous material statements to all Presidio and third-party employees working at the site(s).
4. City of Mansfield shall inform the City of Mansfield's employees of Presidio's activities and direct them to provide necessary access and cooperation.
5. Presidio will schedule resources upon receipt and acceptance of the City of Mansfield's Project managements order. This scheduling effort will take into account the City of Mansfield's schedule and the availability of consultant(s).
6. Presidio is responsible for receiving all Presidio materials.
7. All electrical will be installed by others unless specified under the heading "Presidio will perform the following".
8. All power poles will be installed by others unless specified under the heading "Presidio will perform the following".
9. All material supplied by Presidio that is unused at the completion of the project must be returned, including scrap wire.
10. Presidio will furnish as-built drawings showing the final routes of all Presidio installed fiber optics, cables, and grounds or bonds if a set of prints for the areas that work will be done is supplied to Presidio technicians upon arrival on site.

4. PRICING

Presidio will invoice City of Mansfield based on the project milestone(s) listed below. Project costs are estimated based on current information provided:

Billing Milestone	Fixed / Estimated	Amount
Labor to install data cabling, MDF/IDF buildout, access point and overhead paging hardware per design specifications.	Fixed	\$ 57,500
Materials to install data cabling, MDF/IDF buildout, access point and overhead paging hardware per design specifications.	Fixed	\$ 59,200
Total Project Cost	Fixed	\$ 116,700

Expenses

Any travel and incidental expenses incurred by Presidio in association with the execution of this Proposal are included in the pricing listed above.

5. TERMS AND CONDITIONS

DIR contract# SDD-1915 terms and conditions apply

6. AUTHORIZATION TO PROCEED

The use of signatures on this Proposal is to ensure agreement on project objectives and the work to be performed by Presidio.

Presidio signature signifies our commitment to proceed with the project as described in this document. Please review this document thoroughly, as it will be the basis for all work performed by Presidio on this project.

This Proposal is valid for a period of sixty (60) days from the date that this proposal is provided by Presidio to the City of Mansfield unless otherwise agreed to by both parties.

City of Mansfield

Signature

Date

Printed Name

Presidio Networked Solutions Group LLC

Signature

Date

Printed Name & Title

Please sign and return the entire document to fax number Attn: Jen Hilz at 469.464.1462 or e-mail to jhilz@presidio.com. Thank you!