



**PROPOSAL TO**  
**WILLOWS UNIFIED SCHOOL DISTRICT**  
**823 LAUREL STREET, WILLOWS, CA 95988**

**FOR**  
**COMMUNICATIONS CABLING**

**AT**  
**WILLOWS INTERMEDIATE SCHOOL**

**FROM**  
**PACIFIC DATA CONNECTION**  
**25246 WILSON ROAD**  
**LOS MOLINOS, CA 96055**  
**JANUARY 18, 2016**

**PROJECT INFORMATION:**

Pacific Data Connection proposes to provide and install a data cable system at the Willows Intermediate School. The proposed, cable system will use materials and installation procedures that are in accordance with all local and state codes, National Electrical Codes and ANSI/EIA/TIA- 568-B.2 standards for installation and cable performance of Category 6 and Fiber Optic communication systems.

**I: SCOPE OF WORK**

A total number of 128, Category 6, PVC jacketed station cables will be installed for data applications at desired locations, four in each classroom, two at each Administration location, and four spread out for AP locations. Two outlets, will be installed one in the front and the rear of each classroom and one cable will go to a ceil mount access point. Also six cables will be installed to new Camera locations.

Cables will route from the new or existing IDF locations to each classroom. Surface raceway will be used to drop down walls at all locations. At the outlet end each cable will be terminated with one Category 6, RJ45 module that will be housed in surface mount communication outlets. One plywood backboard will be installed at each new IDF. One wall mount 24"x24" cabinet will be installed to house the network equipment.

The required quantity of Category 6 patch panels and one horizontal wire managers will be installed at the new IDF's. All cables will be terminated on the patch panel at the IDF. One Hundred, Category 6, 3' and 10' foot data patch cords will also be provided for activation.

From the existing MDF one 6 strand 50/125 MM fiber optic cable will be installed in existing underground conduit to the 400 wing new IDF. Cable will be terminated with LC connectors and installed in one FO patch panel at both ends. The existing fiber optic cable between Room 306 and 115 will be moved to route between the MDF and Room 306. All other IDF's will be connected with a new Category 6 copper tie cable and will be terminated on patch panels on both ends.

## **II: COMMUNICATION CABLE PLANT TESTING:**

Each circuit will be tested and certified to meet performance levels, as established, in EIA/TIA- 568-B.1 cabling specifications for Category 6 networks. Each strand of the fiber optic tie cable will be tested with a power meter test set.

## **III: COMMUNICATION CABLE PLANT DOCUMENTATION:**

One (1) set of cable plant as-built drawings will be provided at the completion of the project. This documentation will include cable installation routes, workstation outlet locations, and circuit identification numbers.

## **IV: COMMUNICATION CABLE PLANT LABELING:**

Each installed data communications cable will be labeled, at each end, with the designated circuit identification number. Each communication outlet faceplate will be labeled with the designated cable identification numbers. At the distribution location each data panel port will be appropriately labeled with the circuit identification number.

## **V: PROJECT BILL OF MATERIALS:**

The following material will be provided, and installed, for this project:

<b><u>ITEM</u></b>	<b><u>QUANTITY</u></b>	<b><u>PRODUCT DESCRIPTION</u></b>
(1.)	18,000 feet	- 4-pair, 23 awg., Category 6, PVC Cable
(2.)	5 each	- Cat 6, Data Patch Panel
(3.)	122 each	- Cat 6, RJ45 Data Jacks
(4.)	10 each	- 4 Port Surface Outlets and Surface Race Way
(5.)	1 each	- Wire Manager, Front Only
(6.)	3 each	- 24"x24"Wall Mount Network Cabinet
(7.)	4 each	- 3'x4' Plywood Back Board
(8.)	1 lot	Patch Cords, Ties, Hangers and Labels
(9.)	360 feet	- 6 Strand Fiber Optic Cable
(10.)	12 each	- LC FO Connectors
(11.)	2 each	- Fiber Optic Patch Panels and Coupler Panels

**VI: PROJECT PRICE:**

This price includes all material, freight, sales tax, labor and travel, but does not include any work not specifically included or mentioned in the Scope of Work section of this proposal.

Material	\$ 5,955.00
Tax	\$ 446.62
Labor	\$ 13,290.00
Total	\$ 19,731.62

**VII: WARRANTY**

Pacific Data Connection warrants that it shall repair any defects resulting from faulty workmanship or materials for a period of 2 years after completion of project. Pacific Data Connections liability shall be limited to the cost of repairs or replacement of defective materials or correction of faulty workmanship.

**VIII: CONTRACTOR'S INFORMATION:**

Pacific Data Connection is a licensed California Contractor.

Contractor Classification: C7  
Contractor's License Number: 835371  
DIR # 1000017750

**IX. PROJECT CONTACTS:**

**WILLOWS UNIFIED SCHOOL DISTR.**

Roberto Herniman (530) 865-1267 x2150  
Dr Mort Geivett (530) 934-6000

**PACIFIC DATA CONNECTION**

Randy Ashinhurst (530) 917-0067

APPROVED BY:

DATE: