JD YOUNG®
Technologies

Statement of Work

Version 1.0

Prepared by:
(Rick Colbert)

JD YOUNG® Technologies

SERVICES PROPOSAL
8/3/21

Pawnee Nation
881 Little Dee Rd
Pawnee, OK 74058

918-762-3621 x 133

Hardware Upgrades

Description	Qty	Per Unit	Total
Cyberpower PR750LCDRT1U	16	$413.01	$6,608.20
3' Black PC 10 pack	18	$38.75	$697.50
18" Black PC 20 pack	13	$52.43	$681.53
3' Blue PC 10 pack	3	$16.24	$48.71
18" Blue PC 20 pack	3	$52.06	$156.19
3' Yellow PC 24 pack	2	$53.74	$107.48
18" Yellow PC 24 pack	2	$49.99	$99.98
2 space Wall Rack	2	$138.99	$277.98
4 Space wall Rack	9	$172.35	$1,551.15
1U Wire mgmt	28	$29.60	$828.80
24 port keystone blank PP	16	$28.74	$459.80
F-F Keystone insert 25pack	4	$26.24	$104.95
Roll Velcro	12	$44.74	$536.85
Cabinet Hardware	1	$536.25	$536.25

Software Upgrades

Description	Qty	Per Unit	Total

*Labor Total:	$31,570.00
Hardware / Software Total:	$12,695.35
Doc Fee:	$0.00
Subtotal:	$44,265.35
Sales Tax:	$0.00
**Total:	$44,265.35

** Leasing Option Available

*Labor time is an estimation only and may vary due to issues encountered during implementation.

Scope of Work

Client name	Pawnee Nation of Oklahoma
Client's administrator	Pius Spottedhorsechief
Project name	Phase 2 – Cleanup and Audit
Begin date	8/23/21
End date	Est. 10 days
Project Cost	$44,265.35

Project Information

Project Information
We are pleased to provide a full solution to help your existing IT staff provide a mote stable network environment, with increased security. During phase 1:

a) We were unable to complete the initial audit due to network issues and the need to fix network segments which were either nonresponsive or network equipment was configured incorrectly. After network stabilization process conducted by JD Young last week, we should be able to complete this audit successfully.

b) No true viable backup was found. Some file backups are being conducted but a true disaster recovery/backup is more than just sending files to another building. A disaster recovery/business continuity solution is a layered approach as follows:

1) Bare metal backup solution (backup of the entire system to restore onto available equipment.
2) Backup to an on-premises appliance which can virtualized backup image in event of hardware failure.
3) Copying all these images to secure offsite storage.
4) Ability for the offsite storage to virtualize backup images and ability to access this information in the event of a catastrophe, such as a fire or tornado, wiping out your data infrastructure.
5) Backup versioning – in the event someone mistakenly deletes files or ransomware or virus attacks.

c) No desktop monitoring of hardware and or anti-virus/malware was found. We will implement a desktop monitoring system onto every PC and server providing limited and secure authorized access. Remote access for IT staff unless the user is granted remote access on an as-needed basis. All this includes a fully monitored and updated anti-virus suite of software protection, plus patch management.

d) An unusually high server count was found, in relation to your organization size. We are eager to help you map out your needs for day-to-day operations.

Recommended actions by location:

Entire Network

1) Re-run the audit of the network. Now that the network is operable condition and new switch gear is in place, the audit previously planned can be re-run revealing internal information about the network. This audit will reveal vulnerabilities, user history, aging and much more.
2) Setup work/shared folders designated for each department. All of this will be done following industry best practices and separated by credentials delegated by your staff.
3) Have a meeting with the council and IT staff and report findings and discuss the backup strategy and monitoring along with day-to-day operations.

Phone System

1) Assist and determine needs to ensure phone system is in working order.
2) Assess your existing phone bills and determine the best scenario and cost for a new and replacement phone system.

Building 64

1) Remove old equipment from rack.
2) Service and repair if needed all Access points that have yet to come online. If Access point is no longer working, we will alert the IT staff for replacement. This includes tracing the wiring to verify its integrity for wires that need repair.
3) Mount all loose network cables that are simply tipped and plugged into the switches. Add patch panels if necessary and terminate all wiring into patch panel RJ45 jacks.
4) Add wire management to properly store all patch cables. Adjust patch panel spacing and place wire management and switches accordingly according to location equipment and available spacing of the switches.
5) Color Code all patch cables to follow existing color scheme.
   Black – Data
   Blue – CCTV
   Yellow – Wi-Fi Access Points
6) Add hook and loop fastening bands to bundle cables and other wiring support as needed.
7) 8 Hours estimated labor

Building 64 2nd Floor

1) Remove old equipment from rack.
2) Service and repair if needed all Access points that have yet to come online. If Access point is no longer working, we will alert the IT staff for replacement. This includes tracing the wiring to verify its integrity for wires that need repair.
3) Mount all loose network cables that are simply tipped and plugged into the switches. Add patch panels if necessary and terminate all wiring into patch panel RJ45 jacks.
4) Add Wire management to properly store all patch cables. Adjust patch panel spacing and place wire management and switches accordingly according to location equipment and available spacing of the switches.
5) Add AVR UPS into the rack for voltage regulation and provide extra uptime during power fluctuation.
6) Color Code all patch cables to follow existing color scheme.
   Black – Data
   Blue – CCTV
   Yellow – Wi-Fi Access Points
7) Add hook and loop fastening bands to bundle cables and other wiring support as needed.
8) 6 Hours estimated labor

Police Dept

1) Remove old equipment from rack.
2) Service and repair if needed all Access points that have yet to come online. If Access point is no longer working, we will alert the IT staff for replacement. This includes tracing the wiring to verify its integrity for wires that need repair.
3) Mount all loose network cables that are simply tipped and plugged into the switches. Add patch panels if necessary and terminate all wiring into patch panel RJ45 jacks.
4) Add Wire management to properly store all patch cables. Adjust patch panel spacing and place wire management and switches accordingly according to location equipment and available spacing of the switches.
5) Color Code all patch cables to follow existing color scheme.
   Black – Data
   Blue – CCTV
   Yellow – Wi-Fi Access Points
6) Add hook and loop fastening bands to bundle cables and other wiring support as needed.
7) 12 Hours estimated labor

Building 1

1) Remove old equipment from rack.
2) Add new wall rack to enclose new AVR UPS listed below.
3) Service and repair if needed all Access points that have yet to come online. If Access point is no longer working, we will alert the IT staff for replacement. This includes tracing the wiring to verify its integrity for wires that need repair.
4) Mount all loose network cables that are simply tipped and plugged into the switches. Add patch panels if necessary and terminate all wiring into patch panel RJ45 jacks.
5) Add Wire management to properly store all patch cables. Adjust patch panel spacing and place wire management and switches accordingly according to location equipment and available spacing of the switches.
6) Add AVR UPS into the rack for voltage regulation and provide extra uptime during power fluctuation.
7) Color Code all patch cables to follow existing color scheme.
   Black – Data
   Blue – CCTV
   Yellow – Wi-Fi Access Points
8) Add hook and loop fastening bands to bundle cables and other wiring support as needed.
9) 3 Hours estimated labor

Campgrounds

1) Swap mesh point on Building 1 to PowerBeam. Mesh point is out of range to work and be effective with campground equipment. We will instead utilize equipment already purchased by the tribe and "beam" the network signal over to the campgrounds. A new tribe owned Mesh Pro antenna will be placed in the campgrounds at the receiving end of the PowerBeam and the network will be sent to all the smaller mesh units throughout the campgrounds.
2) Tribe will provide their own electrician for small work in campgrounds. Tribe electrician will provide a weathertight ABS enclosure for power injectors and other equipment to be installed.
3) Program and re-program all mesh access points and setup power beam equipment.
4) 16 hours estimated labor

Note: all campground equipment except for PowerBeam devices, new mesh pro, and items listed for the electrician is already in place.

Courthouse

1) Remove old equipment from rack.
2) Add vertical wall rack to enclose all network gear.
3) Service and repair if needed all Access points that have yet to come online. If Access point is no longer working, we will alert the IT staff for replacement. This includes tracing the wiring to verify its integrity for wires that need repair.
4) Mount all loose network cables that are simply tipped and plugged into the switches. Add patch panels if necessary and terminate all wiring into patch panel RJ45 jacks.
5) Add Wire management to properly store all patch cables. Adjust patch panel spacing and place wire management and switches accordingly according to location equipment and available spacing of the switches.
6) Add AVR UPS into the rack for voltage regulation and provide extra uptime during power fluctuation.
7) Color Code all patch cables to follow existing color scheme.
   Black – Data
   Blue – CCTV
   Yellow – Wi-Fi Access Points
8) Add hook and loop fastening bands to bundle cables and other wiring support as needed.
9) 3 Hours estimated labor

Berry/Museum/Cultural Resource

1) Remove old equipment from rack.
2) Service and repair if needed all Access points that have yet to come online. If Access point is no longer working, we will alert the IT staff for replacement. This includes tracing the wiring to verify its integrity for wires that need repair.
3) Mount all loose network cables that are simply tipped and plugged into the switches. Add patch panels if necessary and terminate all wiring into patch panel RJ45 jacks.
4) Add Wire management to properly store all patch cables. Adjust patch panel spacing and place wire management and switches accordingly according to location equipment and available spacing of the switches.
5) Add AVR UPS into the rack for voltage regulation and provide extra uptime during power fluctuation.
6) Color Code all patch cables to follow existing color scheme.
   Black – Data
   Blue – CCTV
   Yellow – Wi-Fi Access Points
7) Add hook and loop fastening bands to bundle cables and other wiring support as needed.
8) 6 Hours estimated labor

Daycare

1) Remove old equipment from rack.
2) Add vertical wall rack to enclose all network gear.
3) Service and repair if needed all Access points that have yet to come online. If Access point is no longer working, we will alert the IT staff for replacement. This includes tracing the wiring to verify its integrity for wires that need repair.
4) Mount all loose network cables that are simply tipped and plugged into the switches. Add patch panels if necessary and terminate all wiring into patch panel RJ45 jacks.
5) Add Wire management to properly store all patch cables. Adjust patch panel spacing and place wire management and switches accordingly according to location equipment and available spacing of the switches.
6) Add AVR UPS into the rack for voltage regulation and provide extra uptime during power fluctuation.
7) Color Code all patch cables to follow existing color scheme.
   Black – Data
   Blue – CCTV
   Yellow – Wi-Fi Access Points
8) Add hook and loop fastening bands to bundle cables and other wiring support as needed.
9) 4 Hours estimated labor

Early Learning

1) Remove old equipment from rack.
2) Add vertical wall rack to enclose all network gear.
3) Service and repair if needed all Access points that have yet to come online. If Access point is no longer working, we will alert the IT staff for replacement. This includes tracing the wiring to verify its integrity for wires that need repair.
4) Mount all loose network cables that are simply tipped and plugged into the switches. Add patch panels if necessary and terminate all wiring into patch panel RJ45 jacks.
5) Add Wire management to properly store all patch cables. Adjust patch panel spacing and place wire management and switches accordingly according to location equipment and available spacing of the switches.
6) Add AVR UPS into the rack for voltage regulation and provide extra uptime during power fluctuation.
7) Color Code all patch cables to follow existing color scheme.
   Black – Data
   Blue – CCTV
   Yellow – Wi-Fi Access Points
8) Add hook and loop fastening bands to bundle cables and other wiring support as needed.
9) 4 Hours estimated labor

Multi-Purpose/After School

1) Remove old equipment from rack.
2) Add vertical wall rack to enclose all network gear.
3) Service and repair if needed all Access points that have yet to come online. If Access point is no longer working, we will alert the IT staff for replacement. This includes tracing the wiring to verify its integrity for wires that need repair.
4) Mount all loose network cables that are simply tipped and plugged into the switches. Add patch panels if necessary and terminate all wiring into patch panel RJ45 jacks.
5) Add Wire management to properly store all patch cables. Adjust patch panel spacing and place wire management and switches accordingly according to location equipment and available spacing of the switches.
6) Add AVR UPS into the rack for voltage regulation and provide extra uptime during power fluctuation.
7) Color Code all patch cables to follow existing color scheme.
   Black – Data
   Blue – CCTV
   Yellow – Wi-Fi Access Points
8) Add hook and loop fastening bands to bundle cables and other wiring support as needed.
9) 6 Hours estimated labor

Title VI

1) Remove old equipment from rack.
2) Add vertical wall rack to enclose all network gear.
3) Service and repair if needed all Access points that have yet to come online. If Access point is no longer working, we will alert the IT staff for replacement. This includes tracing the wiring to verify its integrity for wires that need repair.
4) Mount all loose network cables that are simply tipped and plugged into the switches. Add patch panels if necessary and terminate all wiring into patch panel RJ45 jacks.
5) Add Wire management to properly store all patch cables. Adjust patch panel spacing and place wire management and switches accordingly according to location equipment and available spacing of the switches.
6) Add AVR UPS into the rack for voltage regulation and provide extra uptime during power fluctuation.
7) Color Code all patch cables to follow existing color scheme.
   Black – Data
   Blue – CCTV
   Yellow – Wi-Fi Access Points
8) Add hook and loop fastening bands to bundle cables and other wiring support as needed.
9) 4 Hours estimated labor

Food Distribution/Roam Chief(multi-purpose)

1) Remove old equipment from rack.
2) Service and repair if needed all Access points that have yet to come online. If Access point is no longer working, we will alert the IT staff for replacement. This includes tracing the wiring to verify its integrity for wires that need repair.
3) Mount all loose network cables that are simply tipped and plugged into the switches. Add patch panels if necessary and terminate all wiring into patch panel RJ45 jacks.
4) Add Wire management to properly store all patch cables. Adjust patch panel spacing and place wire management and switches accordingly according to location equipment and available spacing of the switches.
5) Add AVR UPS into the rack for voltage regulation and provide extra uptime during power fluctuation.
6) Color Code all patch cables to follow existing color scheme.
   Black – Data
   Blue – CCTV
   Yellow – Wi-Fi Access Points
7) Add hook and loop fastening bands to bundle cables and other wiring support as needed.
8) 6 Hours estimated labor

Gaming

1) Remove old equipment from rack.
2) Add vertical wall rack to enclose all network gear.
3) Service and repair if needed all Access points that have yet to come online. If Access point is no longer working, we will alert the IT staff for replacement. This includes tracing the wiring to verify its integrity for wires that need repair.
4) Mount all loose network cables that are simply tipped and plugged into the switches. Add patch panels if necessary and terminate all wiring into patch panel RJ45 jacks.
5) Add Wire management to properly store all patch cables. Adjust patch panel spacing and place wire management and switches accordingly according to location equipment and available spacing of the switches.
6) Add AVR UPS into the rack for voltage regulation and provide extra uptime during power fluctuation.
7) Color Code all patch cables to follow existing color scheme.
   Black – Data
   Blue – CCTV
   Yellow – Wi-Fi Access Points
8) Add hook and loop fastening bands to bundle cables and other wiring support as needed.
9) 4 Hours estimated labor

SAP (Substance Abuse Program)

1) Remove old equipment from rack.
2) Add vertical wall rack to enclose all network gear.
3) Service and repair if needed all Access points that have yet to come online. If Access point is no longer working, we will alert the IT staff for replacement. This includes tracing the wiring to verify its integrity for wires that need repair.
4) Mount all loose network cables that are simply tipped and plugged into the switches. Add patch panels if necessary and terminate all wiring into patch panel RJ45 jacks.
5) Add Wire management to properly store all patch cables. Adjust patch panel spacing and place wire management and switches accordingly according to location equipment and available spacing of the switches.
6) Add AVR UPS into the rack for voltage regulation and provide extra uptime during power fluctuation.
7) Color Code all patch cables to follow existing color scheme.
   Black – Data
   Blue – CCTV
   Yellow – Wi-Fi Access Points
8) Add hook and loop fastening bands to bundle cables and other wiring support as needed.
9) 6 Hours estimated labor

Transportation

1) Remove old equipment from rack.
2) Service and repair if needed all Access points that have yet to come online. If Access point is no longer working, we will alert the IT staff for replacement. This includes tracing the wiring to verify its integrity for wires that need repair.
3) Mount all loose network cables that are simply tipped and plugged into the switches. Add patch panels if necessary and terminate all wiring into patch panel RJ45 jacks.
4) Add Wire management to properly store all patch cables. Adjust patch panel spacing and place wire management and switches accordingly according to location equipment and available spacing of the switches.
5) Add AVR UPS into the rack for voltage regulation and provide extra uptime during power fluctuation.
6) Color Code all patch cables to follow existing color scheme.
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   Blue – CCTV
   Yellow – Wi-Fi Access Points
7) Add hook and loop fastening bands to bundle cables and other wiring support as needed.
8) 8 Hours estimated labor

Tribal Operations

1) Remove old equipment from rack.
2) Add vertical wall rack to enclose all network gear.
3) Service and repair if needed all Access points that have yet to come online. If Access point is no longer working, we will alert the IT staff for replacement. This includes tracing the wiring to verify its integrity for wires that need repair.
4) Mount all loose network cables that are simply tipped and plugged into the switches. Add patch panels if necessary and terminate all wiring into patch panel RJ45 jacks.
5) Add Wire management to properly store all patch cables. Adjust patch panel spacing and place wire management and switches accordingly according to location equipment and available spacing of the switches.
6) Add AVR UPS into the rack for voltage regulation and provide extra uptime during power fluctuation.
7) Color Code all patch cables to follow existing color scheme.
   Black – Data
   Blue – CCTV
   Yellow – Wi-Fi Access Points
8) Add hook and loop fastening bands to bundle cables and other wiring support as needed.
9) 6 Hours estimated labor

VAW (Violence Against Women)

1) Remove old equipment from rack.
2) Add space vertical wall rack to enclose all network gear.
3) Service and repair if needed all Access points that have yet to come online. If Access point is no longer working, we will alert the IT staff for replacement. This includes tracing the wiring to verify its integrity for wires that need repair.
4) Mount all loose network cables that are simply tipped and plugged into the switches. Add patch panels if necessary and terminate all wiring into patch panel RJ45 jacks.
5) Add Wire management to properly store all patch cables. Adjust patch panel spacing and place wire management and switches accordingly according to location equipment and available spacing of the switches.
6) Add AVR UPS into the rack for voltage regulation and provide extra uptime during power fluctuation.
7) Color Code all patch cables to follow existing color scheme.
   Black – Data
   Blue – CCTV
   Yellow – Wi-Fi Access Points
8) Add hook and loop fastening bands to bundle cables and other wiring support as needed.
9) 4 Hours estimated labor

DHCS

1) Remove old equipment from rack.
2) Service and repair if needed all Access points that have yet to come online. If Access point is no longer working, we will alert the IT staff for replacement. This includes tracing the wiring to verify its integrity for wires that need repair.
3) Mount all loose network cables that are simply tipped and plugged into the switches. Add patch panels if necessary and terminate all wiring into patch panel RJ45 jacks.
4) Add Wire management to properly store all patch cables. Adjust patch panel spacing and place wire management and switches accordingly according to location equipment and available spacing of the switches.
5) Add AVR UPS into the rack for voltage regulation and provide extra uptime during power fluctuation.
6) Color Code all patch cables to follow existing color scheme.
   Black – Data
   Blue – CCTV
   Yellow – Wi-Fi Access Points
7) Add hook and loop fastening bands to bundle cables and other wiring support as needed.
8) 8 Hours estimated labor

Resource Center

1) Remove old equipment from rack.
2) Add vertical wall rack to enclose new ARV UPS listed below.
3) Service and repair if needed all Access points that have yet to come online. If Access point is no longer working, we will alert the IT staff for replacement. This includes tracing the wiring to verify its integrity for wires that need repair.
4) Mount all loose network cables that are simply tipped and plugged into the switches. Add patch panels if necessary and terminate all wiring into patch panel RJ45 jacks.
5) Add Wire management to properly store all patch cables. Adjust patch panel spacing and place wire management and switches accordingly according to location equipment and available spacing of the switches.
6) Add AVR UPS into the rack for voltage regulation and provide extra uptime during power fluctuation.
7) Color Code all patch cables to follow existing color scheme.
   Black – Data
   Blue – CCTV
   Yellow – Wi-Fi Access Points
8) Add hook and loop fastening bands to bundle cables and other wiring support as needed.
9) 6 Hours estimated labor

College – both buildings

1) Nothing done at this time. Equipment and labor to be determined later.
2) Request has been made by staff Podcasting training and network assistance.
3) 0 Hours estimated labor

Note: we will be happy to assist and design networks for all listed training.

Fitness Center

1) Nothing done at this time. Equipment and labor to be determined later.
2) Network is in place but accessing Wi-Fi from Building 1. This will need to be addressed at the time Building 1 is changed to accommodate the new Campground equipment. It is our understanding new fiber is being installed and possibly only some additional labor will need to be involved.
3) 0 Hours estimated labor currently

Note: we will be happy to assist and design networks for all listed training.

Covid Building

1) Nothing done at this time. Equipment and to be determined later.
2) No Network is in place, and nothing is accessing Wi-Fi from any other building. It is our understanding new fiber is being installed and possibly only some additional labor will need to be involved.
3) 0 Hours estimated labor currently

Note: we will be happy to assist and design networks for all listed training.

Hardware Requirements

Hardware Requirements
Vertical wall racks AVR Battery Backup devices Patch cables Cable management Backup appliance

Issue Resolution

Unforseen Issues

Please select how you would like for us to deal with unforseen issues.

- ☐ Stop migration/project and consult with client's administrator.
- ☐ Stop migration/project and attempt to contact client's administrator at _____. (Please provide email or phone, please be aware contact maybe made at any hour of the day or night)
- ☐ Continue migration/project and do what is necessary to complete. (This can include, changing passwords, updating programs, contacting software/hardware vendors, rebooting servers, renaming files or etc. Steps taken will be relayed to you via email or phone the following day.)

Acceptance and Authorization

I authorize JD Young Technology Services to complete the steps and processes outlined in this Scope of Work for project.

IN WITNESS WHEREOF, the parties hereto each acting with proper authority have executed acceptance and authorization of this Scope of Work.

Full name	Muriel Robedeaux
IT Manager	Executive Director
Title	Title
Signature	Signature
8-24-2021	8-24-2021
Date	Date

Acceptance of Completion

I accept this Scope of Work has been completed and fulfilled to my satisfaction. I understand that any work requests sent after signing Acceptance of Completion will be billed at my normal hourly rate.

IN WITNESS WHEREOF, the parties hereto each acting with proper authority have executed this Scope of Work.

Full name	Full name
Title	Title
Signature	Signature
Date	Date