

## **PART 1 - GENERAL**

### **1.01 SUMMARY**

- A. The scope of this project is to provide (furnish, install and configure) the server infrastructure, for a complete and operational network infrastructure at the Sterling Town Hall, as defined in the following project components:
- Server Hardware Replacement
  - VMware Licensing
  - Veeam Licensing

### **1.02 SUBMITTALS**

- A. Shop Drawings: Visio Drawings showing rack elevations and devices for system components. Include a diagram showing interconnection of major system components. Logical server diagram along with all usernames and passwords.

### **1.03 QUALITY ASSURANCE**

- A. Installer Qualifications: An experienced installer trained and approved by manufacturer of materials and equipment. Installer's employees must have at least the following certifications; one VMware Certified Professional 6.5 and one Microsoft Certified Solutions Expert.

### **1.04 COORDINATION**

- A. Coordinate installation of materials and equipment with town Construction Manager for the project.

### **1.05 PRICING**

- A. Pricing should be itemized by Part and Sub-Part. Each Part and Sub-Part can be awarded separately or in total.

## PART 2 - SYSTEMS

### 2.01 SERVER HARDWARE REPLACEMENT

A. Summary:

The Town will require the purchase and delivery of the following hardware with 8x5 NBD 3 year service term.

B. Hardware:

1) The following items to be included for the Server Hardware:

Dell VRTX	
Product Line	(2) Dell M630 Blades
Processor(s)	(2) Intel E5-2609v3 1.9GHz Six-Core Processors
Processor(s) STD	2
Processor(s) MAX	2
Processor Cores	Six-Core
Memory	64GB 2133MHz Memory (8x 8GB)
Memory STD	64GB
Memory MAX	768GB
Memory Slots	24
Memory Speed	PC3-10600
Hard Drive(s)	(8) 2TB 7.2K NL SAS Hard Drives
Drives STD	12
Drive Bays	12
Drive Type	NL-SAS
Drive Form Factor	LFF
Power Supply(s)	STD 4

2) The following items to be included for the Network Attached Storage:

QNAP:  
TS-431U  
Four Western Digital Red Pro 6TB Hard Drives

3) The following items to be included for the Power Distribution:

APC UPS  
2 each SUA2200RM2U  
2 each APC AP9631  
2 each AP9335TH

4) The following items to be included for the Software (Government Pricing):

- VMware vSphere Essentials (Basic Support 1 Year)
- Veeam Backup Essentials Enterprise (4 Sockets)
- Microsoft Windows Server 2016 Standard Core Open License - 32 Cores
  - 16 cores of licenses is needed for 2 VMs on a single physical server

## **2.02 SERVER HARDWARE CONFIGURATION**

A. Summary:

The infrastructure will be racked in a Single MDF in a single 42U Rack (Rack by others).

B. Design

The design of the server infrastructure should be based on Industry Best Practices. A single server will need to be virtualized and a new Active Directory environment created.