

INVITATION FOR BID
IFB C4DNCS19
Data Networks and Communications Services
CATEGORY 23 – METROPOLITAN AREA
NETWORK ETHERNET
Verizon Business Services
Statement of Work
TECHNICAL REQUIREMENTS
March 5, 2020
BAFO
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AMENDMENT LOG

Amendment #	Date	Amendment Description
5	04/01/2021	Added Document Header Various Unsolicited Items Removed Modified Language in Tables 23.2.1.6.4, 23.4.2.2, 23.5.8.1, 23.5.8.7, 23.5.8.9, and 23.5.8.10

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TECHNICAL REQUIREMENTS

Category 23 – METROPOLITAN AREA NETWORK ETHERNET

23.1 OVERVIEW

The California Department of Technology (CDT), Statewide Telecommunications Procurement (STP) is requesting proposals from responsive vendors to provide Metropolitan Area Network (MAN) Ethernet services and features.

This Category 23 IFB C4DNCS19 (IFB) provides the State's solicitation for best value solutions for MAN Ethernet services. This IFB also describes the CALNET technical requirements necessary to support the CALNET program requirements.

This IFB will be awarded to Bidders that meet the award criteria as described in IFB C4DNCS19 Part 1, Bid Evaluation. The CALNET Data Network and Communications Services (DNCS) Contract(s) that result from the award of this IFB will be managed on a day-to-day basis by the CALNET Contractor Management Organization (CALNET CMO).

23.1.1 Bidder Response Requirements

Throughout this IFB, Bidders are required to acknowledge acceptance of the requirements described herein by responding to one of the following:

1. Example A (for responses that require confirmation that the Bidder understands and accepts the requirement):

“Bidder understands the requirements and shall meet or exceed them? Choose an item. ”

Or,

2. Example B (for responses that require the Bidder to provide a description or written response to the requirement):

“Bidder understands the requirements and shall meet or exceed them? Choose an item. ”

Description:”

Or,

3. Example C (for responses contained in Technical Feature and/or Service Tables):

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidders Product Identifier	Bidder Meets or Exceeds? Yes or No
1					Choose an item.

23.1.2 Designation of Requirements

All Technical Requirements specified in this IFB C4DNCS19 are Mandatory and must be responded to as identified in IFB C4DNCS19 Part 1, SOW Mandatory Technical Requirements by the Bidder. Additionally, some Mandatory requirements are "Mandatory-Scorable" and are designated as "(M-S)".

Costs associated with services shall be included in the prices provided by the Bidder for the individual items included in the Cost Worksheets. Items not listed in the Cost Worksheets will not be billable by the Contractor. If additional unsolicited items include the features described in the IFB and are not included as billable in the Cost Worksheets, the cost associated with the features shall not be included in the unsolicited price.

Services and features included in the Cost Worksheets are those that the Bidder must provide. All Bidders must provide individual prices as indicated in the Cost Worksheets in the Bidder's Final Proposal. Items submitted with no price will be considered as offered at no cost.

23.1.3 Pacific Time Zone

Unless specific otherwise, all times stated herein are times in the Pacific Time Zone.

Bidder understands the requirements and shall meet or exceed them? Yes

23.2 ETHERNET SERVICES

Contractors shall provide Ethernet network services in specific geographic locations throughout the state. The service shall provide for the transmission of digital signals in a dedicated high capacity channel. The service shall be available in multiple configurations, enabling Customers to connect two or more Local Area Networks (LANs) at the native speed of the LAN backbone.

Bidder understands the requirements and shall meet or exceed them? Yes

23.2.1 Metropolitan Area Network Ethernet (MAE) Services

Contractors shall provide switched Ethernet point-to-point and multipoint LAN services for use in a metropolitan area which allows Customers to connect two or more locations.

Bidder understands the requirements and shall meet or exceed them? Yes

23.2.1.1 General Requirements

23.2.1.1.1 Standards

1. Contractor's service shall provide Ethernet services that comply with all applicable standards as set by the following standard bodies:

Bidder understands the requirements and shall meet or exceed them? Yes

2. Metro Ethernet Forum (MEF);

Bidder understands the requirements and shall meet or exceed them? Yes

3. Internet Engineering Task Force;

Bidder understands the requirements and shall meet or exceed them? Yes

4. International Telecommunications Union (ITU); and,

Bidder understands the requirements and shall meet or exceed them? Yes

5. Institute of Electrical and Electronics Engineers, Inc. (IEEE).

Bidder understands the requirements and shall meet or exceed them? Yes

23.2.1.1.2 Security

Contractor shall physically secure all data and networking facilities through which data traverses Contractor's WAN complying with the physical security controls of NIST SP 800-53, ISO/IEC 27001, or equivalent standards.

Bidder understands the requirements and shall meet or exceed them? Yes

23.2.1.1.3 Data Breach Reporting

If Contractor determines that a breach of data has occurred that may involve CALNET Customer data, the nature and scope of the breach (as it affects Customer data) shall be reported to both the Customer and the CALNET CMO within 24 hours of that determination.

Bidder understands the requirements and shall meet or exceed them? Yes

23.2.1.1.4 End-to-End Ethernet Delivery

Contractors shall provide a seamless end-to-end service traversing from the Customer Premise Equipment (CPE) through the Contractor's network minimizing conversion of protocols.

Bidder understands the requirements and shall meet or exceed them? Yes

23.2.1.1.5 Ethernet Virtual Connections (EVC)

Contractor's service shall provide EVCs, which are used to define the association of two or more User-to-Network Interfaces (UNI's).

Bidder understands the requirements and shall meet or exceed them? Yes

23.2.1.1.6 Ethernet User-to-Network Interface (UNI)

Contractor's service shall provide delivery of the service via a User-to-Network Interface (UNI). The service shall provide bidirectional, full duplex transmission of Ethernet frames using a standard IEEE 802.3 Ethernet interface (UNI). Table 23.2.1.1.6 lists the UNI physical interfaces.

Table 23.2.1.1.6 – UNI Physical Interfaces

UNI Speed	UNI Physical Interface
10 Mbps	10/100/1000Base-Tx
100 Mbps	10/100/1000Base-Tx or Sx
1 Gbps	1000Base-Tx or 1000Base-SX
10 Gbps	10GBase-SR or 10GBase-LR

Bidder understands the requirements and shall meet or exceed them? Yes

23.2.1.1.7 Multiple Classes of Service (CoS)

The service shall provide Class of Service (CoS) options that allow for differentiated service performance levels for different types of network traffic.

Bidder understands the requirements and shall meet or exceed them? Yes

23.2.1.1.8 Service Frame Delivery Options

Service Frame Delivery options supported shall include:

1. Unicast Frame Delivery;

Bidder understands the requirements and shall meet or exceed them? Yes

2. Multicast Frame Delivery as per RFC 1112;

Bidder understands the requirements and shall meet or exceed them? Yes

3. IEEE 802.1 Bridging and Management Standards; and,

4. Broadcast Frame Delivery as per IEEE 802.3.

Bidder understands the requirements and shall meet or exceed them? Yes

23.2.1.1.9 Ethernet Service Frame Disposition

The service shall deliver all service frames associated with the EVC unconditionally across the network as specified in Table 23.2.1.1.19.

Table 23.2.1.1.9 –Service Frame Delivery Disposition

Service Frame Type	Service Frame Delivery
Unicast	All Frames delivered unconditionally
Multicast	All Frames delivered unconditionally
Broadcast	All Frames delivered unconditionally

Bidder understands the requirements and shall meet or exceed them? Yes

23.2.1.1.10 VLAN Tag Preservation

The service shall support IEEE 802.1Q VLAN-tagged Customer packets. All Customer VLAN IDs and priority code points (IEEE 802.1p) for CoS shall be transmitted and received unaltered by the service. Untagged packets shall be mapped to the native VLAN specified by Customer. Customers may configure their own VLANs on their Customer owned CPE without coordination with the Contractor.

Bidder understands the requirements and shall meet or exceed them? Yes

23.2.1.1.11 Maximum Frame Size

The service shall support a Maximum Transmission Unit (MTU) packet size of 1,600 bytes to support untagged or 802.1Q tagged packet sizes.

Bidder understands the requirements and shall meet or exceed them? Yes

23.2.1.1.12 Jumbo Frames

The Contractor's network shall support Jumbo Frames.

Bidder understands the requirements and shall meet or exceed them? Yes

23.2.1.1.13 Performance Monitoring

The Contractor shall conduct Performance Monitoring that includes the following:

1. Signal failure;

Bidder understands the requirements and shall meet or exceed them? Yes

2. Signal degradation;

Bidder understands the requirements and shall meet or exceed them? Yes

3. Connectivity or Loss of connectivity;

Bidder understands the requirements and shall meet or exceed them? Yes

4. Frame loss;

Bidder understands the requirements and shall meet or exceed them? Yes

5. Errored frames;

Bidder understands the requirements and shall meet or exceed them? Yes

6. Looping;

Bidder understands the requirements and shall meet or exceed them? Yes

7. Mis-inserted frames; and,

Bidder understands the requirements and shall meet or exceed them? Yes

8. Maintenance parameters.

Bidder understands the requirements and shall meet or exceed them? Yes

23.2.1.1.14 Network Monitoring

The Contractor shall monitor all services on a 24x7 basis.

Bidder understands the requirements and shall meet or exceed them? Yes

23.2.1.1.15 Technical Support

Contractor shall provide technical support for service issues via a toll-free telephone number that operates on a 24x7 basis.

Bidder understands the requirements and shall meet or exceed them? Yes

23.2.1.1.16 Maintenance

The Contractor shall perform maintenance during a set maintenance window. Maintenance shall be coordinated between the Contractor and the Customer. Contractor shall provide a minimum of 48 hour notice to the Customer for non-service impacting scheduled maintenance. Contractor shall provide a minimum of seven days' notice for service impacting planned maintenance. Emergency maintenance shall be performed as needed.

Bidder understands the requirements and shall meet or exceed them? Yes

23.2.1.1.17 Equipment and Environment

The Contractor shall provide and install all network terminating Equipment (NTE) in Customer provided racking and utilize State provided AC power. The

NTE shall connect to either a Customer router with an Ethernet blade or a Customer Ethernet switch equipped to support Ethernet located within fifty feet.

Bidder understands the requirements and shall meet or exceed them? Yes

All Equipment shall adhere to the Telcordia Network Equipment Building System (NEBS).

Bidder understands the requirements and shall meet or exceed them? Yes

23.2.1.1.18 Contractor Wi-Fi Hotspot Service Offerings

The Contractor shall not configure services utilizing state-funded (or leased) infrastructure or resources to provide Contractor branded Wi-Fi hotspots for a fee/subscription to the general public. Use of any publicly funded power, facilities, or infrastructure in State leased or owned buildings to provide Contractor fee based Wi-Fi services is considered a gift of public funds.

The Contractor shall not provide Contractor branded Wi-Fi hotspot services for non-CALNET users by piggybacking onto CALNET Customer primary installations or by any other means that utilize publicly funded assets. This restriction includes but is not limited to installation of secondary equipment, circuits, or data channels both land based and wireless.

Bidder understands the requirements and shall meet or exceed them? Yes

23.2.1.2 Ethernet Private Line (EPL) MAE Service

The Contractor shall provide Ethernet Private Line (EPL) MAE service. This service shall provide a logical Point-to-Point connection between two Customer locations or a Customer location and an Internet Service Provider Point of Presence (POP), Interexchange Carrier POP, or another 3rd party location. EPL service shall enable Customers to use any VLANs or Ethernet control protocol across the service without coordination with the Contractor.

EPL service shall enable Customers to connect their Customer Premise Equipment (CPE) using an Ethernet interface and provide one Ethernet Virtual Connection (EVC) between two Customer locations.

Bidder understands the requirements and shall meet or exceed them? Yes

23.2.1.3 Ethernet Virtual Private Line (EVPL) MAE Service

The Contractor shall provide Ethernet Virtual Private Line (EVPL) MAE service. This service shall provide an Ethernet Virtual Connection (EVC) between two

Customer locations similar to Ethernet Private Line service but shall support the added flexibility to multiplex multiple services (EVCs) on a single UNI at a Customer's hub or aggregation site.

Bidder understands the requirements and shall meet or exceed them? Yes

23.2.1.4 EVPL MAE Service Multiplexing

The EVPL MAE service shall enable Customers to multiplex multiple services (EVCs) on a given UNI eliminating the need for multiple physical interfaces on the Customer's router or Ethernet switch.

Bidder understands the requirements and shall meet or exceed them? Yes

23.2.1.5 EPL and EVPL MAE Classes of Service (CoS)

Contractor shall provide three Classes of Service (CoS) options for the EPL/EVPL MAE services – BASIC, PRIORITY and PREMIUM. The CoS options shall allow for differentiated service performance levels for different types of network traffic. CoS options shall allow Customers to prioritize mission-critical traffic from lesser priority traffic in the network. The CoS shall be associated with the bandwidth usage rate, Committed Information Rate (CIR), ordered by the Customer for each connection at the Customer locations. If the Customer requests multiple EVCs per location, then a CoS will be associated with each EVC.

Bidder understands the requirements and shall meet or exceed them? Yes

23.2.1.5.1 BASIC CoS MAE

BASIC CoS supports data applications with more tolerance for delay and/or those with least priority. There are no service performance parameters associated with this Class of Service.

The Contractor shall offer CIR - BASIC CoS services and features detailed in Table 23.2.1.6.b.

Bidder understands the requirements and shall meet or exceed them? Yes

23.2.1.5.2 PRIORITY CoS MAE

PRIORITY CoS shall support data applications with more tolerance for delay and/or those that are lower in priority. The service parameters associated with this class of service are listed in Table 23.2.1.5.2.

Table 23.2.1.5.2 lists the service performance objectives for PRIORITY CoS for distances within 250 network miles.

The Contractor shall offer CIR – PRIORITY CoS services and features detailed in Table 23.2.1.6.c.

Table 23.2.1.5.2 – PRIORITY CoS Performance Objectives

Performance Objective (\leq 250 miles)	PRIORITY CoS
Latency (one way)	<25ms
Jitter (one way)	<15ms
Packet Loss (one way)	<0.5%
Availability	>99.99%

Bidder understands the requirements and shall meet or exceed them? Yes

23.2.1.5.3 PREMIUM CoS MAE

PREMIUM CoS shall support applications that require minimal loss and low latency variation (i.e., jitter). The network will provision data in this class of service in a priority queue indicating that it is delay sensitive. The service parameters associated with this class of service are listed in Table 23.2.1.5.3.

Table 23.2.1.5.3 lists the service performance objectives for PREMIUM CoS for distances within 250 network miles.

The Contractor shall offer CIR - PREMIUM CoS services and features detailed in Table 23.2.1.6.d.

Table 23.2.1.5.3 – PREMIUM CoS Performance Objectives

Performance Objective (\leq 250 miles)	PREMIUM CoS
Latency (one way)	<15ms
Jitter (one way)	<5ms
Packet Loss (one way)	<0.1%
Availability	>99.99%

Bidder understands the requirements and shall meet or exceed them? Yes

23.2.1.6 EPL and EVPL MAE Service Feature Description

Contractor shall provide MAE services as described below.

23.2.1.6.1 EPL and EVPL MAE Service Connections

EPL and EVPL MAE Service Connections shall include the Network Interface and the Access Link from the Customer premises to the Ethernet network, a port on the Ethernet network, the assigned bandwidth usage and one Ethernet Virtual Connection (EVC).

1. Network Interface (NI): The point that the Customer's data transmission enters the Contractor's network. The point of interconnection between the Contractor's communication facility and Customer end-user's terminal equipment.

Bidder understands the requirements and shall meet or exceed them? Yes

2. Access Link: Connects a Customer facility at the NI to an Ethernet port on the Metro Ethernet network with a standard optical or copper connection.

Bidder understands the requirements and shall meet or exceed them? Yes

3. Port: An Ethernet port is the physical entry point to the shared Metro Ethernet Network. Virtual Local Area Networks (VLANs) Ethernet Virtual Connections (EVCs) originate and terminate on a Metro Ethernet Port.

Bidder understands the requirements and shall meet or exceed them? Yes

23.2.1.6.2 Managed IP Enabled Routing Service:

1. Contractor shall offer a managed router or IP enabled routing device service that includes the components described in Section 23.2.1.6.1 in a bundled format which includes a Contractor owned, maintained and managed router or managed IP enabled routing device as identified in Table 23.2.1.6.a.

Bidder understands the requirements and shall meet or exceed them? Yes

2. The Contractor's managed routing service shall include proactive Customer notification.

Bidder understands the requirements and shall meet or exceed them? Yes

3. The Contractor shall provide customers full read only access to the managed router or managed IP enabled routing device.

Bidder understands the requirements and shall meet or exceed them? Yes

Contractors shall provide the services and Features described in Table 23.2.1.6.a

Table 23.2.1.6.a – MAE Services and Features

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
1	EPL MAE Service Connection 10/100 Mbps	10/100 Mbps Ethernet port per location; Assessed per interface at bandwidths of 10/100 Mbps (10/100BASE-T). The EPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one EVC and the NI.	Verizon will provide 10/100 Mbps Ethernet port per location; Assessed per interface at bandwidths of 10/100 Mbps (10/100BASE-T). The EPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one EVC and the NI.	EMSC0000	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
2	EPL MAE Service Connection 10/100 Mbps with Managed IP Enabled Routing Device	10/100 Mbps Ethernet port per location with managed IP enabled routing device; Assessed per interface at bandwidths of 10/100 Mbps (10/100BASE-T). The EPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one EVC and the NI.	Verizon will provide 10/100 Mbps Ethernet port per location with managed IP enabled routing device; Assessed per interface at bandwidths of 10/100 Mbps (10/100BASE-T). The EPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one EVC and the NI.	EMSD0000	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
3	EPL MAE Service Connection Gigabit Ethernet (1 Gbps)	1 Gbps Ethernet port per location; Assessed per interface at bandwidths of 1 Gbps Ethernet. The EPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one EVC and the NI.	Verizon will provide 1 Gbps Ethernet port per location; Assessed per interface at bandwidths of 1 Gbps Ethernet. The EPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one EVC and the NI.	ESCN0001	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
4	EPL MAE Service Connection Gigabit Ethernet (1 Gbps) with Managed IP Enabled Routing Device	1 Gbps Ethernet port per location, with managed IP enabled routing device; Assessed per interface at bandwidths of 1 Gbps Ethernet. The EPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one EVC and the NI.	Verizon will provide 1 Gbps Ethernet port per location, with managed IP enabled routing device; Assessed per interface at bandwidths of 1 Gbps Ethernet. The EPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one EVC and the NI.	ESCD0001	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
5	EPL MAE Service Connection Gigabit Ethernet (10 GE)	10 Gbps Ethernet port per location; Assessed per interface at bandwidths of 10 Gbps Ethernet. The EPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one EVC and the NI.	Verizon will provide 10 Gbps Ethernet port per location; Assessed per interface at bandwidths of 10 Gbps Ethernet. The EPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one EVC and the NI.	ESCN0010	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
6	EPL MAE Service Connection Gigabit Ethernet (10 GE) with Managed IP Enabled Routing Device	10 Gbps Ethernet port per location, with managed IP enabled routing device; Assessed per interface at bandwidths of 10 Gbps Ethernet. The EPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one EVC and the NI.	Verizon will provide 10 Gbps Ethernet port per location, with managed IP enabled routing device; Assessed per interface at bandwidths of 10 Gbps Ethernet. The EPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one EVC and the NI.	ESCD0010	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
7	EVPL MAE Service Connection 10/100 Mbps	Assessed per interface at bandwidths of 10/100 Mbps (10/100BASE-T). The EVPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one EVC and the NI.	Verizon will provide assessed per interface at bandwidths of 10/100 Mbps (10/100BASE-T). The EVPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one EVC and the NI.	EVPM0000	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
8	EVPL MAE Service Connection 10/100 Mbps with Managed IP Enabled Routing Device	Assessed per interface at bandwidths of 10/100 Mbps (10/100BASE-T) with managed IP enabled routing device. The EVPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one EVC and the NI.	Verizon will provide assessed per interface at bandwidths of 10/100 Mbps (10/100BASE-T) with managed IP enabled routing device. The EVPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one EVC and the NI.	EVMN0000	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
9	EVPL MAE Service Connection Gigabit Ethernet (1 Gbps)	Assessed per interface at bandwidths of 1 Gbps Ethernet. The EVPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one EVC and the NI.	Verizon will provide assessed per interface at bandwidths of 1 Gbps Ethernet. The EVPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one EVC and the NI.	EVMS0001	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
10	EVPL MAE Service Connection Gigabit Ethernet (1 Gbps) with Managed IP Enabled Routing Device	Assessed per interface at bandwidths of 1 Gbps Ethernet with managed IP Enabled routing device. The EVPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one EVC and the NI.	Verizon will provide assessed per interface at bandwidths of 1 Gbps Ethernet with managed IP Enabled routing device. The EVPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one EVC and the NI.	EVMM0001	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
11	EVPL MAE Service Connection 10 Gigabit Ethernet (10 GE)	Assessed per interface at bandwidths of 10 GE. The EVPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one EVC and the NI.	Verizon will provide assessed per interface at bandwidths of 10 GE. The EVPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one EVC and the NI.	EVMS0010	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
12	EVPL MAE Service Connection 10 Gigabit Ethernet (10 GE) with Managed IP Enabled Routing Device	Assessed per interface at bandwidths of 10 GE with managed IP Enabled routing device. The EVPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one EVC and the NI.	Verizon will provide assessed per interface at bandwidths of 10 GE with managed IP Enabled routing device. The EVPL connection rate element includes the physical connection (Access Link) between the Customer's demarcation and the core Ethernet network, the port, one EVC and the NI.	EVMM0010	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
13	Additional MAE MAC Addresses (51-100)	MAC Address rate element is a data link layer protocol used for Layer 2 connectivity. Standard service allows up to 50 MAC addresses to be present per EPL/EVPL connection. This optional feature increases that limit up to 100 MAC addresses per EPL/EVPL connection. A technical review will be necessary to determine if service can be provided and for approval to exceed the limit.	Verizon will provide MAC Address rate element is a data link layer protocol used for Layer 2 connectivity. Standard service allows up to 50 MAC addresses to be present per EPL/EVPL connection. This optional feature increases that limit up to 100 MAC addresses per EPL/EVPL connection. A technical review will be necessary to determine if service can be provided and for approval to exceed the limit.	MAEM0000	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
14	Ethernet Virtual Connection (EVC) MAE	EVC rate element. EVCs shall be assigned in 1 Mbps increments within each port range. Customer may order additional EVCs to establish additional virtual connections over the same physical connections. When additional EVCs are ordered, the Customer must designate the portion of the CIR bandwidth assigned to each EVC.	Verizon will provide EVC rate element. EVCs shall be assigned in 1 Mbps increments within each port range. Customer may order additional EVCs to establish additional virtual connections over the same physical connections. When additional EVCs are ordered, the Customer must designate the portion of the CIR bandwidth assigned to each EVC.	MAEV0000	Yes

Contractor shall provide the Services and Features described in Table 23.2.1.6.b.

Table 23.2.1.6.b – CIR Basic Class of Service MAE

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Meets or Exceeds? Yes or No
1	BASIC CIR MAE - 2 Mbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CRMB0002	Yes
2	BASIC CIR MAE - 4 Mbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CRMB0004	Yes
3	BASIC CIR MAE - 5 Mbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CRMB0005	Yes
4	BASIC CIR MAE - 8 Mbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CRMB0008	Yes
5	BASIC CIR MAE - 10 Mbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CRMB0010	Yes
6	BASIC CIR MAE - 20 Mbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CRMB0020	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Meets or Exceeds? Yes or No
7	BASIC CIR MAE - 50 Mbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CRMB0050	Yes
8	BASIC CIR MAE - 100 Mbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CRMB0100	Yes
9	BASIC CIR MAE - 150 Mbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CRMB0150	Yes
10	BASIC CIR MAE - 200 Mbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CRMB0200	Yes
11	BASIC CIR MAE - 250 Mbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CRMB0250	Yes
12	BASIC CIR MAE - 400 Mbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CRMB0400	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Meets or Exceeds? Yes or No
13	BASIC CIR MAE - 500 Mbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CRMB0500	Yes
14	BASIC CIR MAE - 600 Mbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CRMB0600	Yes
15	BASIC CIR MAE - 1 Gbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CRMB1000	Yes
16	BASIC CIR MAE - 10 Gbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CIMB0010	Yes

Contractor shall provide the Services and Features described in Table 23.2.1.6.c.

Table 23.2.1.6.c – CIR Priority Class of Service MAE

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Meets or Exceeds? Yes or No
1	PRIORITY CIR MAE - 2 Mbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CRMP0002	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Meets or Exceeds? Yes or No
2	PRIORITY CIR MAE - 4 Mbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CRMP0004	Yes
3	PRIORITY CIR MAE - 5 Mbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CRMP0005	Yes
4	PRIORITY CIR MAE - 8 Mbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CRMP0008	Yes
5	PRIORITY CIR MAE - 10 Mbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CRMP0010	Yes
6	PRIORITY CIR MAE - 20 Mbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CRMP0020	Yes
7	PRIORITY CIR MAE - 50 Mbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CRMP0050	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Meets or Exceeds? Yes or No
8	PRIORITY CIR MAE - 100 Mbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CRMP0100	Yes
9	PRIORITY CIR MAE - 150 Mbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CRMP0150	Yes
10	PRIORITY CIR MAE - 200 Mbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CRMP0200	Yes
11	PRIORITY CIR MAE - 250 Mbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CRMP0250	Yes
12	PRIORITY CIR MAE - 400 Mbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CRMP0400	Yes
13	PRIORITY CIR MAE - 500 Mbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CRMP0500	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Meets or Exceeds? Yes or No
14	PRIORITY CIR MAE - 600 Mbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CRMP0600	Yes
15	PRIORITY CIR MAE - 1 Gbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CRMP1000	Yes
16	PRIORITY CIR MAE - 10 Gbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CIMP0010	Yes

Contractor shall provide the Services and Features described in Table 23.2.1.6.d.

Table 23.2.1.6.d CIR – Premium Class of Service MAE

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Meets or Exceeds? Yes or No
1	PREMIUM CIR MAE - 2 Mbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CMPR0002	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Meets or Exceeds? Yes or No
2	PREMIUM CIR MAE - 4 Mbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CMPR0004	Yes
3	PREMIUM CIR MAE - 5 Mbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CMPR0005	Yes
4	PREMIUM CIR MAE - 8 Mbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CMPR0008	Yes
5	PREMIUM CIR MAE - 10 Mbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CMPR0010	Yes
6	PREMIUM CIR MAE - 20 Mbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CMPR0020	Yes
7	PREMIUM CIR MAE - 50 Mbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CMPR0050	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Meets or Exceeds? Yes or No
8	PREMIUM CIR MAE - 100 Mbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CMPR0100	Yes
9	PREMIUM CIR MAE - 150 Mbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CMPR0150	Yes
10	PREMIUM CIR MAE - 200Mbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CMPR0200	Yes
11	PREMIUM CIR MAE - 250 Mbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CMPR0250	Yes
12	PREMIUM CIR MAE - 400 Mbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CMPR0400	Yes
13	PREMIUM CIR MAE - 500 Mbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CMPR0500	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Meets or Exceeds? Yes or No
14	PREMIUM CIR MAE - 600 Mbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CMPR0600	Yes
15	PREMIUM CIR MAE -1 Gbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CMPR1000	Yes
16	PREMIUM CIR MAE - 10 Gbps	The guaranteed average bandwidth of the virtual circuit.	Verizon will provide the guaranteed average bandwidth of the virtual circuit.	CIPR0010	Yes

23.2.1.6.3 MAE Backup Options

If the Contractor provides LTE backup services for Managed Equipment the Contractor shall use current CALNET Cellular providers. All Bidders are required to indicate below that they understand the requirement regardless of their intent to provide LTE backup services.

Bidder understands this requirement and shall meet or exceed it? Yes

23.2.1.6.4 Additional Unsolicited MAE Services and Features

The Bidder may offer additional unsolicited MAE services and features in Table 23.2.1.6.4.

Table 23.2.1.6.4 – Unsolicited MAE Services and Features

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
1	Ethernet Dedicated E-Line National Explicit Routing Working - Restorable (1 Mbps)	EDER0001	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
2	Ethernet Dedicated E-Line National Explicit Routing Working - Unprotected (1 Mbps)	EDEU0001	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
3	Ethernet Dedicated E-Line Explicit Routing Working - Restorable (2 Mbps)	EDER0002	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
4	Ethernet Dedicated E-Line Explicit Routing Working - Unprotected (2 Mbps)	EDEU0002	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
5	Ethernet Dedicated E-Line Explicit Routing Working - Restorable (3 Mbps)	EDER0003	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
6	Ethernet Dedicated E-Line Explicit Routing Working - Unprotected (3 Mbps)	EDEU0003	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
7	Ethernet Dedicated E-Line Explicit Routing Working - Restorable (4 Mbps)	EDER0004	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
8	Ethernet Dedicated E-Line Explicit Routing Working - Unprotected (4 Mbps)	EDEU0004	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
9	Ethernet Dedicated E-Line Explicit Routing Working - Restorable (5 Mbps)	EDER0005	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
10	Ethernet Dedicated E-Line Explicit Routing Working - Unprotected (5 Mbps)	EDEU0005	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
11	Ethernet Dedicated E-Line Explicit Routing Working - Restorable (6 Mbps)	EDER0006	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
12	Ethernet Dedicated E-Line Explicit Routing Working - Unprotected (6 Mbps)	EDEU0006	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
13	Ethernet Dedicated E-Line Explicit Routing Working - Restorable (7 Mbps)	EDER0007	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
14	Ethernet Dedicated E-Line Explicit Routing Working - Unprotected (7 Mbps)	EDEU0007	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
15	Ethernet Dedicated E-Line Explicit Routing Working - Restorable (8 Mbps)	EDER0008	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
16	Ethernet Dedicated E-Line Explicit Routing Working - Unprotected (8 Mbps)	EDEU0008	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
17	Ethernet Dedicated E-Line Explicit Routing Working - Restorable (9 Mbps)	EDER0009	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
18	Ethernet Dedicated E-Line Explicit Routing Working - Unprotected (9 Mbps)	EDEU0009	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
19	Ethernet Dedicated E-Line Explicit Routing Working - Restorable (10 Mbps)	EDER0010	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
20	Ethernet Dedicated E-Line Explicit Routing Working - Unprotected (10 Mbps)	EDEU0010	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
21	Ethernet Dedicated E-Line Explicit Routing Working - Restorable (15 Mbps)	EDER0015	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
22	Ethernet Dedicated E-Line Explicit Routing Working - Unprotected (15 Mbps)	EDEU0015	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
23	Ethernet Dedicated E-Line Explicit Routing Working - Restorable (20 Mbps)	EDER0020	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
24	Ethernet Dedicated E-Line Explicit Routing Working - Unprotected (20 Mbps)	EDEU0020	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
25	Ethernet Dedicated E-Line Explicit Routing Working - Restorable (30 Mbps)	EDER0030	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
26	Ethernet Dedicated E-Line Explicit Routing Working - Unprotected (30 Mbps)	EDEU0030	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
27	Ethernet Dedicated E-Line Explicit Routing Working - Restorable (40 Mbps)	EDER0040	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
28	Ethernet Dedicated E-Line Explicit Routing Working - Unprotected (40 Mbps)	EDEU0040	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
29	Ethernet Dedicated E-Line Explicit Routing Working - Restorable (50 Mbps)	EDER0050	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
30	Ethernet Dedicated E-Line Explicit Routing Working - Unprotected (50 Mbps)	EDEU0050	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
31	Ethernet Dedicated E-Line Explicit Routing Working - Restorable (60 Mbps)	EDER0060	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
32	Ethernet Dedicated E-Line Explicit Routing Working - Unprotected (60 Mbps)	EDEU0060	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
33	Ethernet Dedicated E-Line Explicit Routing Working - Restorable (70 Mbps)	EDER0070	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
34	Ethernet Dedicated E-Line Explicit Routing Working - Unprotected (70 Mbps)	EDEU0070	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
35	Ethernet Dedicated E-Line Explicit Routing Working - Restorable (80 Mbps)	EDER0080	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
36	Ethernet Dedicated E-Line Explicit Routing Working - Unprotected (80 Mbps)	EDEU0080	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
37	Ethernet Dedicated E-Line Explicit Routing Working - Restorable (90 Mbps)	EDER0090	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
38	Ethernet Dedicated E-Line Explicit Routing Working - Unprotected (90 Mbps)	EDEU0090	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
39	Ethernet Dedicated E-Line Explicit Routing Working - Explicit Routing Protect (100 Mbps)	EDEP0100	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
40	Ethernet Dedicated E-Line Explicit Routing Working - Restorable (100 Mbps)	EDER0100	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
41	Ethernet Dedicated E-Line Explicit Routing Working - Unprotected (100 Mbps)	EDEU0100	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
42	Ethernet Dedicated E-Line Explicit Routing Working - Restorable (150 Mbps)	EDER0150	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
43	Ethernet Dedicated E-Line Explicit Routing Working - Unprotected (150 Mbps)	EDEU0150	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
44	Ethernet Dedicated E-Line Explicit Routing Working - Restorable (200 Mbps)	EDER0200	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
45	Ethernet Dedicated E-Line Explicit Routing Working - Unprotected (200 Mbps)	EDEU0200	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
46	Ethernet Dedicated E-Line Explicit Routing Working - Restorable (300 Mbps)	EDER0300	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
47	Ethernet Dedicated E-Line Explicit Routing Working - Unprotected (300 Mbps)	EDEU0300	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
48	Ethernet Dedicated E-Line Explicit Routing Working - Restorable (400 Mbps)	EDER0400	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
49	Ethernet Dedicated E-Line Explicit Routing Working - Unprotected (400 Mbps)	EDEU0400	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
50	Ethernet Dedicated E-Line Explicit Routing Working - Restorable (500 Mbps)	EDER0500	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
51	Ethernet Dedicated E-Line Explicit Routing Working - Unprotected (500 Mbps)	EDEU0500	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
52	Ethernet Dedicated E-Line Explicit Routing Working - Restorable (600 Mbps)	EDER0600	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
53	Ethernet Dedicated E-Line Explicit Routing Working - Unprotected (600 Mbps)	EDEU0600	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
54	Ethernet Dedicated E-Line Explicit Routing Working - Restorable (700 Mbps)	EDER0700	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
55	Ethernet Dedicated E-Line Explicit Routing Working - Unprotected (700 Mbps)	EDEU0700	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
56	Ethernet Dedicated E-Line Explicit Routing Working - Restorable (800 Mbps)	EDER0800	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
57	Ethernet Dedicated E-Line Explicit Routing Working - Unprotected (800 Mbps)	EDEU0800	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
58	Ethernet Dedicated E-Line Explicit Routing Working - Restorable (900 Mbps)	EDER0900	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
59	Ethernet Dedicated E-Line Explicit Routing Working - Unprotected (900 Mbps)	EDEU0900	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
60	Ethernet Dedicated E-Line Explicit Routing Working - Restorable (1 Gbps)	EDER1000	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
61	Ethernet Dedicated E-Line Explicit Routing Working - Unprotected (1 Gbps)	EDEU1000	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
62	Ethernet Dedicated E-Line Explicit Routing Working - Restorable (1.5 Gbps)	EDER1005	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
63	Ethernet Dedicated E-Line Explicit Routing Working - Unprotected (1.5 Gbps)	EDEU1005	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
64	Ethernet Dedicated E-Line Explicit Routing Working - Restorable (2 Gbps)	EDER2000	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
65	Ethernet Dedicated E-Line Explicit Routing Working - Unprotected (2 Gbps)	EDEU2000	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
66	Ethernet Dedicated E-Line Explicit Routing Working - Restorable (2.5 Gbps)	EDER2005	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
67	Ethernet Dedicated E-Line Explicit Routing Working - Unprotected (2.5 Gbps)	EDEU2005	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
68	Ethernet Dedicated E-Line Explicit Routing Working - Restorable (3 Gbps)	EDER3000	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
69	Ethernet Dedicated E-Line Explicit Routing Working - Unprotected (3 Gbps)	EDEU3000	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
70	Ethernet Dedicated E-Line Explicit Routing Working - Restorable (4 Gbps)	EDER4000	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
71	Ethernet Dedicated E-Line Explicit Routing Working - Unprotected (4 Gbps)	EDEU4000	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
72	Ethernet Dedicated E-Line Explicit Routing Working - Restorable (5 Gbps)	EDER5000	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
73	Ethernet Dedicated E-Line Explicit Routing Working - Unprotected (5 Gbps)	EDEU5000	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
74	Ethernet Dedicated E-Line Explicit Routing Working - Restorable (6 Gbps)	EDER6000	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
75	Ethernet Dedicated E-Line Explicit Routing Working - Unprotected (6 Gbps)	EDEU6000	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
76	Ethernet Dedicated E-Line Explicit Routing Working - Restorable (7 Gbps)	EDER7000	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
77	Ethernet Dedicated E-Line Explicit Routing Working - Unprotected (7 Gbps)	EDEU7000	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
78	Ethernet Dedicated E-Line Explicit Routing Working - Restorable (8 Gbps)	EDER8000	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
79	Ethernet Dedicated E-Line Explicit Routing Working - Unprotected (8 Gbps)	EDEU8000	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
80	Ethernet Dedicated E-Line Explicit Routing Working - Restorable (9 Gbps)	EDER9000	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
81	Ethernet Dedicated E-Line Explicit Routing Working - Unprotected (9 Gbps)	EDEU9000	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
82	Ethernet Dedicated E-Line Explicit Routing Working - Restorable (10 Gbps)	EDRR0000	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
83	Ethernet Dedicated E-Line Explicit Routing Working - Unprotected (10 Gbps)	EDUP0000	This line item requires EPL or EVPL MAE Service Connections providing Ethernet Access on both ends of circuit at customer locations.
84	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (1-5) bps Mileage (1-43) Per Circuit	ETSE0043	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
85	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (1-5) Mbps Mileage (50 – 249) Per Circuit	ETSE0249	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
86	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (1-5) Mbps Mileage (250 – 499) Per Circuit	ETSE0499	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
87	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (1-5) Mbps Mileage (500 – 999) Per Circuit	ETSE0999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
88	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (1-5) Mbps Mileage (1000 – 1999) Per Circuit	ETSE1999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
89	Ethernet Flow (EF) Circuit Speed (1-5) Mbps Mileage (2000 – 9999) Per Circuit	ETSE9999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
90	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (6 to 10) Mbps Mileage (0 – 49) Per Circuit	ETFL0049	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
91	Ethernet Switched E-Line National Ethernet Flow Circuit Speed ((6 to10 Mbps Mileage (50 – 249) Per Circuit	ETFL0249	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
92	Ethernet Flow (EF)Circuit Speed (6 to10) Mbps Mileage (250 – 499) Per Circuit	ETFL0499	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
93	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (6 to10) Mbps Mileage (500 – 999) Per Circuit	ETFL0999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
94	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (6 to10) Mbps Mileage (1000 – 1999) Per Circuit	ETFL1999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
95	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (6 to10) Mbps Mileage (2000 – 9999) Per Circuit	ETFL9999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
96	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (15 & 20) Mbps Mileage (0 – 49) Per Circuit	ETSC0049	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
97	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (15 & 20) Mbps Mileage (50 – 249) Per Circuit	ETSC0249	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
98	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (15 & 20) Mbps Mileage (250 – 499) Per Circuit	ETSC0499	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
99	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (15 & 20) Mbps Mileage (500 – 999) Per Circuit	ETSC0999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
100	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (15 & 20) Mbps Mileage (1000 – 1999) Per Circuit	ETSC1999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
101	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (15 & 20) Mbps Mileage (2000 – 9999) Per Circuit	ETSC9999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
102	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (25 & 30) Mbps Mileage (0 – 49) Per Circuit	ESWE0049	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
103	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (25 & 30) Mbps Mileage (50 – 249) Per Circuit	ESWE0249	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
104	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (25 & 30) Mbps Mileage (250 – 499) Per Circuit	ESWE0499	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
105	Ethernet Flow (EF) Circuit Speed (25 & 30) Mbps Mileage (500 – 999) Per Circuit	ESWE0999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
106	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (25 & 30) Mbps Mileage (1000 – 1999) Per Circuit	ESWE1999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
107	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (25 & 30) Mbps Mileage (2000 – 9999) Per Circuit	ESWE9999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
108	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (35 & 40) Mbps Mileage (0 – 49) Per Circuit	ESNW0049	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
109	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (35 & 40) Mbps Mileage (50 – 249) Per Circuit	ESNW0249	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
110	Ethernet Flow (EF) Circuit Speed (35 & 40) Mbps Mileage (250 – 499) Per Circuit	ESNW0499	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
111	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (35 & 40) Mbps Mileage (500 – 999) Per Circuit	ESNW0999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
112	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (35 & 40) Mbps Mileage (1000 – 1999) Per Circuit	ESNW1999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
113	Ethernet Flow (EF) Circuit Speed (35 & 40) Mbps Mileage (2000 – 9999) Per Circuit	ESNW9999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
114	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (45 & 50) Mbps Mileage (0 – 49) Per Circuit	ETSW0049	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
115	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (45 & 50) Mbps Mileage (50 – 249) Per Circuit	ETSW0249	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
116	Ethernet Flow (EF)Circuit Speed (45 & 50) Mbps Mileage (250 – 499) Per Circuit	ETSW0499	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
117	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (45 & 50) Mbps Mileage (500 – 999) Per Circuit	ETSW0999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
118	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (45 & 50) Mbps Mileage (1000 – 1999) Per Circuit	ETSW1999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
119	Ethernet Flow (EF)Circuit Speed (45 & 50) Mbps Mileage (2000 – 9999) Per Circuit	ETSW9999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
120	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (60) Mbps Mileage (0 – 49) Per Circuit	ETSN0049	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
121	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (60) Mbps Mileage (50 – 249) Per Circuit	ETSN0249	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
122	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (60) Mbps Mileage (250 – 499) Per Circuit	ETSN0499	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
123	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (60) Mbps Mileage (500 – 999) Per Circuit	ETSN0999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
124	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (60) Mbps Mileage (1000 – 1999) Per Circuit	ETSN1999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
125	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (60) Mbps Mileage (2000 – 9999) Per Circuit	ETSN9999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
126	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (70) Mbps Mileage (0 – 49) Per Circuit	ESWF0049	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
127	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (70) Mbps Mileage (50 – 249) Per Circuit	ESWF0249	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
128	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (70) Mbps Mileage (250 – 499) Per Circuit	ESWF0499	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
129	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (70) Mbps Mileage (500 – 999) Per Circuit	ESWF0999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
130	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (70) Mbps Mileage (1000 – 1999) Per Circuit	ESWF1999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
131	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (70) Mbps Mileage (2000 – 9999) Per Circuit	ESWF9999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
132	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (80) Mbps Mileage (0 – 49) Per Circuit	ETNE0049	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
133	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (80) Mbps Mileage (50 – 249) Per Circuit	ETNE0249	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
134	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (80) Mbps Mileage (250 – 499) Per Circuit	ETNE0499	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
135	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (80) Mbps Mileage (500 – 999) Per Circuit	ETNE0999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
136	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (80) Mbps Mileage (1000 – 1999) Per Circuit	ETNE1999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
137	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (80) Mbps Mileage (2000 – 9999) Per Circuit	ETNE9999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
138	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (90 & 100) Mbps Mileage (0 – 49) Per Circuit	EFLR0049	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
139	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (90 & 100) Mbps Mileage (50 – 249) Per Circuit	EFLR0249	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
140	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (90 & 100) Mbps Mileage (250 – 499) Per Circuit	EFLR0499	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
141	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (90 & 100) Mbps Mileage (500 – 999) Per Circuit	EFLR0999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
142	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (90 & 100) Mbps Mileage (1000 – 1999) Per Circuit	EFLR1999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
143	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (90 & 100) Mbps Mileage (2000 – 9999) Per Circuit	EFLR9999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
144	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (150) Mbps Mileage (0 – 49) Per Circuit	EETF0049	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
145	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (150) Mbps Mileage (50 – 249) Per Circuit	EETF0249	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
146	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (150) Mbps Mileage (250 – 499) Per Circuit	EETF0499	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
147	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (150) Mbps Mileage (500 – 999) Per Circuit	EETF0999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
148	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (150) Mbps Mileage (1000 – 1999) Per Circuit	EETF1999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
149	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (150) Mbps Mileage (2000 – 9999) Per Circuit	EETF9999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
150	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (200) Mbps Mileage (0 – 49) Per Circuit	ETHF0049	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
151	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (200) Mbps Mileage (50 – 249) Per Circuit	ETHF0249	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
152	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (200) Mbps Mileage (250 – 499) Per Circuit	ETHF0499	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
153	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (200) Mbps Mileage (500 – 999) Per Circuit	ETHF0999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
154	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (200) Mbps Mileage (1000 – 1999) Per Circuit	ETHF1999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
155	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (200) Mbps Mileage (2000 – 9999) Per Circuit	ETHF9999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
156	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (300) Mbps Mileage (0 – 49) Per Circuit	EENE0049	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
157	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (300) Mbps Mileage (50 – 249) Per Circuit	EENE0249	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
158	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (300) Mbps Mileage (250 – 499) Per Circuit	EENE0499	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
159	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (300) Mbps Mileage (500 – 999) Per Circuit	EENE0999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
160	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (300) Mbps Mileage (1000 – 1999) Per Circuit	EENE1999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
161	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (300) Mbps Mileage (2000 – 9999) Per Circuit	EENE9999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
162	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (400, 500 & 600) Mbps Mileage (0 – 49) Per Circuit	ESLN0049	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
163	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (400, 500 & 600) Mbps Mileage (50 – 249) Per Circuit	ESLN0249	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
164	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (400, 500 & 600) Mbps Mileage (250 – 499) Per Circuit	ESLN0499	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
165	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (400, 500 & 600) Mbps Mileage (500 – 999) Per Circuit	ESLN0999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
166	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (400, 500 & 600) Mbps Mileage (1000 – 1999) Per Circuit	ESLN1999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
167	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (400, 500 & 600) Mbps Mileage (2000 – 9999) Per Circuit	ESLN9999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
168	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (700) Mbps Mileage (0 – 49) Per Circuit	ELNA0049	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
169	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (700) Mbps Mileage (50 – 249) Per Circuit	ELNA0249	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
170	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (700) Mbps Mileage (250 – 499) Per Circuit	ELNA0499	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
171	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (700) Mbps Mileage (500 – 999) Per Circuit	ELNA0999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
172	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (700) Mbps Mileage (1000 – 1999) Per Circuit	ELNA1999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
173	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (700) Mbps Mileage (2000 – 9999) Per Circuit	ELNA9999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
174	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (800) Mbps Mileage (0 – 49) Per Circuit	ELNF0049	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
175	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (800) Mbps Mileage (50 – 249) Per Circuit	ELNF0249	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
176	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (800) Mbps Mileage (250 – 499) Per Circuit	ELNF0499	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
177	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (800) Mbps Mileage (500 – 999) Per Circuit	ELNF0999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
178	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (800) Mbps Mileage (1000 – 1999) Per Circuit	ELNF1999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
179	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (800) Mbps Mileage (2000 – 9999) Per Circuit	ELNF9999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
180	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (900) Mbps Mileage (0 – 49) Per Circuit	ETNC0049	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
181	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (900) Mbps Mileage (50 – 249) Per Circuit	ETNC0429	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
182	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (900) Mbps Mileage (250 – 499) Per Circuit	ETNC0499	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
183	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (900) Mbps Mileage (500 – 999) Per Circuit	ETNC0999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
184	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (900) Mbps Mileage (1000 – 1999) Per Circuit	ETNC1999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
185	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (900) Mbps Mileage (2000 – 9999) Per Circuit	ETNC9999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
186	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (1000) Mbps Mileage (0 – 49) Per Circuit	ETCR0049	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
187	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (1000) Mbps Mileage (50 – 249) Per Circuit	ETCR0249	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
188	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (1000) Mbps Mileage (250 – 499) Per Circuit	ETCR0499	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
189	Ethernet Flow (EF) Circuit Speed (1000) Mbps Mileage (500 – 999) Per Circuit	ETCR0999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
190	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (1000) Mbps Mileage (1000 – 1999) Per Circuit	ETCR1999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
191	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (1000) Mbps Mileage (2000 – 9999) Per Circuit	ETCR9999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
192	Ethernet Flow (EF) Circuit Speed (1500) Mbps Mileage (0 – 9999) Per Circuit	ETEF1500	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
193	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (2000) Mbps Mileage (0 – 9999) Per Circuit	EPLF9999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
194	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (2500) Mbps Mileage (0 – 9999) Per Circuit	ESWT9999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
195	Ethernet Flow (EF) Circuit Speed (3000) Mbps Mileage (0 – 9999) Per Circuit	ETEF3000	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
196	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (4000) Mbps Mileage (0 – 9999) Per Circuit	ELEC9999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
197	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (5000) Mbps Mileage (0 – 9999) Per Circuit	ELFL9999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
198	Ethernet Flow (EF) Circuit Speed (6000) Mbps Mileage (0 – 9999) Per Circuit	ETEF6000	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
199	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (7000) Mbps Mileage (0 – 9999) Per Circuit	ETHC9999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
200	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (8000) Mbps Mileage (0 – 9999) Per Circuit	ELNE9999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
201	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (9000) Mbps Mileage (0 – 9999) Per Circuit	ESWC9999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
202	Ethernet Switched E-Line National Ethernet Flow Circuit Speed (10,000) Mbps Mileage (0 – 9999) Per Circuit	ENCF9999	This line item requires EVPL / EPL MAE Service Connections on both ends of circuit at customer locations.
203	VPLS NATIONAL Standard / Transparent Flow – 1 Mbps	VPSN0001	Verizon is proposing Virtual Private LAN Service (VPLS) as an Unsolicited Service Offering in Category 23. VPLS is a private IP network that supports native Layer 2 protocols. Some State agencies require transport services that support native layer 2 protocol.
204	VPLS NATIONAL Standard / Transparent Flow – 2 Mbps	VPSN0002	This VPLS Standard / Transparent Flow is for a 2 Mbps Ethernet flow.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
205	VPLS NATIONAL Standard / Transparent Flow – 3 Mbps	VPSN0003	This VPLS Standard / Transparent Flow is for a 3 Mbps Ethernet flow.
206	VPLS NATIONAL Standard / Transparent Flow – 4 Mbps	VPSN0004	This VPLS Standard / Transparent Flow is for a 4 Mbps Ethernet flow.
207	VPLS NATIONAL Standard / Transparent Flow – 5 Mbps	VPSN0005	This VPLS Standard / Transparent Flow is for a 5 Mbps Ethernet flow.
208	VPLS NATIONAL Standard / Transparent Flow – 6 Mbps	VPSN0006	This VPLS Standard / Transparent Flow is for a 6 Mbps Ethernet flow.
209	VPLS NATIONAL Standard / Transparent Flow – 7 Mbps	VPSN0007	This VPLS Standard / Transparent Flow is for a 7 Mbps Ethernet flow.
210	VPLS NATIONAL Standard / Transparent Flow – 8 Mbps	VPSN0008	This VPLS Standard / Transparent Flow is for an 8 Mbps Ethernet flow.
211	VPLS NATIONAL Standard / Transparent Flow – 9 Mbps	VPSN0009	This VPLS Standard / Transparent Flow is for a 9 Mbps Ethernet flow.
212	VPLS NATIONAL Standard / Transparent Flow – 10 Mbps	VPSN0010	This VPLS Standard / Transparent Flow is for a 10 Mbps Ethernet flow.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
213	VPLS NATIONAL Standard / Transparent Flow – 15 Mbps	VPSN0015	This VPLS Standard / Transparent Flow is for a 15 Mbps Ethernet flow.
214	VPLS NATIONAL Standard / Transparent Flow – 20 Mbps	VPSN0020	This VPLS Standard / Transparent Flow is for a 20 Mbps Ethernet flow.
215	VPLS NATIONAL Standard / Transparent Flow – 25 Mbps	VPSN0025	This VPLS Standard / Transparent Flow is for a 25 Mbps Ethernet flow.
216	VPLS NATIONAL Standard / Transparent Flow – 30 Mbps	VPSN0030	This VPLS Standard / Transparent Flow is for a 30 Mbps Ethernet flow.
217	VPLS NATIONAL Standard / Transparent Flow – 35 Mbps	VPSN0035	This VPLS Standard / Transparent Flow is for a 35 Mbps Ethernet flow.
218	VPLS NATIONAL Standard / Transparent Flow – 40 Mbps	VPSN0040	This VPLS Standard / Transparent Flow is for a 40 Mbps Ethernet flow.
219	VPLS NATIONAL Standard / Transparent Flow – 45 Mbps	VPSN0045	This VPLS Standard / Transparent Flow is for a 45 Mbps Ethernet flow.
220	VPLS NATIONAL Standard / Transparent Flow – 50 Mbps	VPSN0050	This VPLS Standard / Transparent Flow is for a 50 Mbps Ethernet flow.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
221	VPLS NATIONAL Standard / Transparent Flow – 60 Mbps	VPSN0060	This VPLS Standard / Transparent Flow is for a 60 Mbps Ethernet flow.
222	VPLS NATIONAL Standard / Transparent Flow – 70 Mbps	VPSN0070	This VPLS Standard / Transparent Flow is for a 70 Mbps Ethernet flow.
223	VPLS NATIONAL Standard / Transparent Flow – 80 Mbps	VPSN0080	This VPLS Standard / Transparent Flow is for an 80 Mbps Ethernet flow.
224	VPLS NATIONAL Standard / Transparent Flow – 90 Mbps	VPSN0090	This VPLS Standard / Transparent Flow is for a 90 Mbps Ethernet flow.
225	VPLS NATIONAL Standard / Transparent Flow – 100 Mbps	VPSN0100	This VPLS Standard / Transparent Flow is for a 100 Mbps Ethernet flow.
226	VPLS NATIONAL Standard / Transparent Flow – 150 Mbps	VPSN0150	This VPLS Standard / Transparent Flow is for a 150 Mbps Ethernet flow.
227	VPLS NATIONAL Standard / Transparent Flow – 200 Mbps	VPSN0200	This VPLS Standard / Transparent Flow is for a 200 Mbps Ethernet flow.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
228	VPLS NATIONAL Standard / Transparent Flow – 300 Mbps	VPSN0300	This VPLS Standard / Transparent Flow is for a 300 Mbps Ethernet flow.
229	VPLS NATIONAL Standard / Transparent Flow – 400 Mbps	VPSN0400	This VPLS Standard / Transparent Flow is for a 400 Mbps Ethernet flow.
230	VPLS NATIONAL Standard / Transparent Flow – 500 Mbps	VPSN0500	This VPLS Standard / Transparent Flow is for a 500 Mbps Ethernet flow.
231	VPLS NATIONAL Standard / Transparent Flow – 600 Mbps	VPSN0600	This VPLS Standard / Transparent Flow is for a 600 Mbps Ethernet flow.
232	VPLS NATIONAL Standard / Transparent Flow – 700 Mbps	VPSN0700	This VPLS Standard / Transparent Flow is for a 700 Mbps Ethernet flow.
233	VPLS NATIONAL Standard / Transparent Flow – 800 Mbps	VPSN0800	This VPLS Standard / Transparent Flow is for an 800 Mbps Ethernet flow.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
234	VPLS NATIONAL Standard / Transparent Flow – 900 Mbps	VPSN0900	This VPLS Standard / Transparent Flow is for a 900 Mbps Ethernet flow.
235	VPLS NATIONAL Standard / Transparent Flow – 1 Gbps	VPSN1000	This VPLS Standard / Transparent Flow is for a 1 Gbps Ethernet flow.
236	VPLS NATIONAL Standard / Transparent Flow – 1.5 Gbps	VSTT1005	This VPLS Standard / Transparent Flow is for a 1.5 Gbps Ethernet flow.
237	VPLS NATIONAL Standard / Transparent Flow – 2 Gbps	VSTT2000	This VPLS Standard / Transparent Flow is for a 2 Gbps Ethernet flow.
238	VPLS NATIONAL Standard / Transparent Flow – 2.5 Gbps	VSTT2005	This VPLS Standard / Transparent Flow is for a 2.5 Gbps Ethernet flow.
239	VPLS NATIONAL Standard / Transparent Flow – 3 Gbps	VSTT3000	This VPLS Standard / Transparent Flow is for a 3 Gbps Ethernet flow.
240	VPLS NATIONAL Standard / Transparent Flow – 4 Gbps	VSTT4000	This VPLS Standard / Transparent Flow is for a 4 Gbps Ethernet flow.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
241	VPLS NATIONAL Standard / Transparent Flow – 5 Gbps	VSTT5000	This VPLS Standard / Transparent Flow is for a 5 Gbps Ethernet flow.
242	VPLS NATIONAL Standard / Transparent Flow – 6 Gbps	VSTT6000	This VPLS Standard / Transparent Flow is for a 6 Gbps Ethernet flow.
243	VPLS NATIONAL Standard / Transparent Flow – 7 Gbps	VSTT7000	This VPLS Standard / Transparent Flow is for a 7 Gbps Ethernet flow.
244	VPLS NATIONAL Standard / Transparent Flow – 8 Gbps	VSTT8000	This VPLS Standard / Transparent Flow is for an 8 Gbps Ethernet flow.
245	VPLS NATIONAL Standard / Transparent Flow – 9 Gbps	VSTT9000	This VPLS Standard / Transparent Flow is for a 9 Gbps Ethernet flow.
246	VPLS NATIONAL Standard / Transparent Flow – 10 Gbps	VSNT0010	This VPLS Standard / Transparent Flow is for a 10 Gbps Ethernet flow.
247	VPLS NATIONAL Premium Quality of Service (QoS) – 64 Kbps	VPNP0064	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 64 Kbps.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
248	VPLS NATIONAL Premium Quality of Service (QoS) – 128 Kbps	VPNP0128	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 128 Kbps.
249	VPLS NATIONAL Premium Quality of Service (QoS) – 256 Kbps	VPNP0256	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 256 Kbps.
250	VPLS NATIONAL Premium Quality of Service (QoS) – 384 Kbps	VPNP0384	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 384 Kbps.
251	VPLS NATIONAL Premium Quality of Service (QoS) – 512 Kbps	VPNP0512	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 512 Kbps.
252	VPLS NATIONAL Premium Quality of Service (QoS) – 640 Kbps	VPNP0640	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 640 Kbps.
253	VPLS NATIONAL Premium Quality of Service (QoS) – 768 Kbps	VPNP0768	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 768 Kbps.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
254	VPLS NATIONAL Premium Quality of Service (QoS) – 864 Kbps	VPNP0864	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 864 Kbps.
255	VPLS NATIONAL Premium Quality of Service (QoS) – 1 Mbps	VNPR0001	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 1 Mbps.
256	VPLS NATIONAL Premium Quality of Service (QoS) – 2 Mbps	VNPR0002	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 2 Mbps.
257	VPLS NATIONAL Premium Quality of Service (QoS) – 3 Mbps	VNPR0003	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 3 Mbps.
258	VPLS NATIONAL Premium Quality of Service (QoS) – 4 Mbps	VNPR0004	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 4 Mbps.
259	VPLS NATIONAL Premium Quality of Service (QoS) – 5 Mbps	VNPR0005	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 5 Mbps.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
260	VPLS NATIONAL Premium Quality of Service (QoS) – 6 Mbps	VNPR0006	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 6 Mbps.
261	VPLS NATIONAL Premium Quality of Service (QoS) – 7 Mbps	VNPR0007	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 7 Mbps.
262	VPLS NATIONAL Premium Quality of Service (QoS) – 8 Mbps	VNPR0008	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 8 Mbps.
263	VPLS NATIONAL Premium Quality of Service (QoS) – 9 Mbps	VNPR0009	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 9 Mbps.
264	VPLS NATIONAL Premium Quality of Service (QoS) – 10 Mbps	VNPR0010	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 10 Mbps.
265	VPLS NATIONAL Premium Quality of Service (QoS) – 15 Mbps	VNPR0015	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 15 Mbps.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
266	VPLS NATIONAL Premium Quality of Service (QoS) – 20 Mbps	VNPR0020	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 20 Mbps.
267	VPLS NATIONAL Premium Quality of Service (QoS) – 25 Mbps	VNPR0025	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 25 Mbps.
268	VPLS NATIONAL Premium Quality of Service (QoS) – 30 Mbps	VNPR0030	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 30 Mbps.
269	VPLS NATIONAL Premium Quality of Service (QoS) – 35 Mbps	VNPR0035	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 35 Mbps.
270	VPLS NATIONAL Premium Quality of Service (QoS) – 40 Mbps	VNPR0040	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 40 Mbps.
271	VPLS NATIONAL Premium Quality of Service (QoS) – 45 Mbps	VNPR0045	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 45 Mbps.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
272	VPLS NATIONAL Premium Quality of Service (QoS) – 50 Mbps	VNPR0050	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 50 Mbps.
273	VPLS NATIONAL Premium Quality of Service (QoS) – 60 Mbps	VNPR0060	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 60 Mbps.
274	VPLS NATIONAL Premium Quality of Service (QoS) – 70 Mbps	VNPR0070	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 70 Mbps.
275	VPLS NATIONAL Premium Quality of Service (QoS) – 80 Mbps	VNPR0080	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 80 Mbps.
276	VPLS NATIONAL Premium Quality of Service (QoS) – 90 Mbps	VNPR0090	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 90 Mbps.
277	VPLS NATIONAL Premium Quality of Service (QoS) – 100 Mbps	VNPR0100	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 100 Mbps.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
278	VPLS NATIONAL Premium Quality of Service (QoS) – 150 Mbps	VNPR0150	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 150 Mbps.
279	VPLS NATIONAL Premium Quality of Service (QoS) – 200 Mbps	VNPR0200	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 200 Mbps.
280	VPLS NATIONAL Premium Quality of Service (QoS) – 300 Mbps	VNPR0300	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 300 Mbps.
281	VPLS NATIONAL Premium Quality of Service (QoS) – 400 Mbps	VNPR0400	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 400 Mbps.
282	VPLS NATIONAL Premium Quality of Service (QoS) – 500 Mbps	VNPR0500	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 500 Mbps.
283	VPLS NATIONAL Premium Quality of Service (QoS) – 600 Mbps	VNPR0600	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 600 Mbps.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
284	VPLS NATIONAL Premium Quality of Service (QoS) – 700 Mbps	VNPR0700	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 700 Mbps.
285	VPLS NATIONAL Premium Quality of Service (QoS) – 800 Mbps	VNPR0800	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 800 Mbps.
286	VPLS NATIONAL Premium Quality of Service (QoS) – 900 Mbps	VNPR0900	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 900 Mbps.
287	VPLS NATIONAL Premium Quality of Service (QoS) – 1 Gbps	VNPR1000	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 1 Gbps.
288	VPLS NATIONAL Premium Quality of Service (QoS) – 2 Gbps	VNPR2000	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 2 Gbps.
289	VPLS NATIONAL Premium Quality of Service (QoS) – 3 Gbps	VNPR3000	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 3 Gbps.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
290	VPLS NATIONAL Premium Quality of Service (QoS) – 4 Gbps	VNPR4000	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 4 Gbps.
291	VPLS NATIONAL Premium Quality of Service (QoS) – 5 Gbps	VNPR5000	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 5 Gbps.
292	VPLS NATIONAL Premium Quality of Service (QoS) – 6 Gbps	VNPR6000	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 6 Gbps.
293	VPLS NATIONAL Premium Quality of Service (QoS) – 7 Gbps	VNPR7000	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 7 Gbps.
294	VPLS NATIONAL Premium Quality of Service (QoS) – 8 Gbps	VNPR8000	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 8 Gbps.
295	VPLS NATIONAL Premium Quality of Service (QoS) – 9 Gbps	VNPR9000	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 9 Gbps.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
296	VPLS NATIONAL Premium Quality of Service (QoS) – 10 Gbps	VPRQ0010	This VPLS Premium Quality of Service (QoS) is for a Real Time Data at a rate of 10 Gbps.
297	VPLS NATIONAL MAC Address Block	VSTM0000	Virtual Private LAN Service (VPLS) Standard MAC Address Block provides fifty 50 MAC addresses (i.e., a MAC address block) for each set of 25 sites per Customer Domain. Additional MAC Address Blocks may be ordered by CALNET III customers. Additional block(s) of MAC addresses are used within a particular Customer Domain to supplement the company-provided MAC Address Block.
298	VPLS NATIONAL Traffic Replication - 1 Mbps	VSTR0001	This service has limited availability and is only available at 1 Mbps.
299	VPLS NATIONAL Traffic Replication - 2 Mbps	VSTR0002	This service has limited availability and is only available at 2 Mbps.
300	VPLS NATIONAL Traffic Replication - 3 Mbps	VSTR0003	This service has limited availability and is only available at 3 Mbps.
301	VPLS NATIONAL Traffic Replication - 4 Mbps	VSTR0004	This service has limited availability and is only available at 4 Mbps.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
302	VPLS NATIONAL Traffic Replication - 5 Mbps	VSTR0005	This service has limited availability and is only available at 5 Mbps.
303	VPLS NATIONAL Traffic Replication - 6 Mbps	VSTR0006	This service has limited availability and is only available at 6 Mbps.
304	VPLS NATIONAL Traffic Replication - 7 Mbps	VSTR0007	This service has limited availability and is only available at 7 Mbps.
305	VPLS NATIONAL Traffic Replication - 8 Mbps	VSTR0008	This service has limited availability and is only available at 8 Mbps.
306	VPLS NATIONAL Traffic Replication - 9 Mbps	VSTR0009	This service has limited availability and is only available at 9 Mbps.
307	VPLS NATIONAL Traffic Replication - 10 Mbps	VSTR0010	This service has limited availability and is only available at 10 Mbps.
308	VPLS NATIONAL Traffic Replication - 15 Mbps	VSTR0015	This service has limited availability and is only available at 15 Mbps.
309	VPLS NATIONAL Traffic Replication - 20 Mbps	VSTR0020	This service has limited availability and is only available at 20 Mbps.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
310	VPLS NATIONAL Traffic Replication - 25 Mbps	VSTR0025	This service has limited availability and is only available at 25 Mbps.
311	VPLS NATIONAL Traffic Replication - 30 Mbps	VSTR0030	This service has limited availability and is only available at 30 Mbps.
312	VPLS NATIONAL Traffic Replication - 35 Mbps	VSTR0035	This service has limited availability and is only available at 35 Mbps.
313	VPLS NATIONAL Traffic Replication - 40 Mbps	VSTR0040	This service has limited availability and is only available at 40 Mbps.
314	VPLS NATIONAL Traffic Replication - 45 Mbps	VSTR0045	This service has limited availability and is only available at 45 Mbps.
315	VPLS NATIONAL Traffic Replication - 50 Mbps	VSTR0050	This service has limited availability and is only available at 50 Mbps.
316	VPLS NATIONAL Traffic Replication - 60 Mbps	VSTR0060	This service has limited availability and is only available at 60 Mbps.
317	VPLS NATIONAL Traffic Replication - 70 Mbps	VSTR0070	This service has limited availability and is only available at 70 Mbps.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
318	VPLS NATIONAL Traffic Replication - 80 Mbps	VSTR0080	This service has limited availability and is only available at 80 Mbps.
319	VPLS NATIONAL Traffic Replication - 90 Mbps	VSTR0090	This service has limited availability and is only available at 90 Mbps.
320	VPLS NATIONAL Traffic Replication - 100 Mbps	VSTR0100	This service has limited availability and is only available at 100 Mbps.
321	VPLS NATIONAL Traffic Replication - 150 Mbps	VSTR0150	This service has limited availability and is only available at 150 Mbps.
322	VPLS NATIONAL Traffic Replication - 200 Mbps	VSTR0200	This service has limited availability and is only available at 200 Mbps.
323	VPLS NATIONAL Traffic Replication - 300 Mbps	VSTR0300	This service has limited availability and is only available at 300 Mbps.
324	VPLS NATIONAL Traffic Replication - 400 Mbps	VSTR0400	This service has limited availability and is only available at 400 Mbps.
325	VPLS NATIONAL Traffic Replication - 500 Mbps	VSTR0500	This service has limited availability and is only available at 500 Mbps.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
326	VPLS NATIONAL Traffic Replication - 600 Mbps	VSTR0600	This service has limited availability and is only available at 600 Mbps.
327	VPLS NATIONAL Traffic Replication - 700 Mbps	VSTR0700	This service has limited availability and is only available at 700 Mbps.
328	VPLS NATIONAL Traffic Replication - 800 Mbps	VSTR0800	This service has limited availability and is only available at 800 Mbps.
329	VPLS NATIONAL Traffic Replication - 900 Mbps	VSTR0900	This service has limited availability and is only available at 900 Mbps.
330	VPLS NATIONAL Traffic Replication - 1 Gbps	VSTR1000	This service has limited availability and is only available at 1 Gbps.
331	VPLS NATIONAL Traffic Replication - 1.5 Gbps	VSTR1005	This service has limited availability and is only available at 1.5 Gbps.
332	VPLS NATIONAL Traffic Replication - 2 Gbps	VSTR2000	This service has limited availability and is only available at 2 Gbps.
333	VPLS NATIONAL Traffic Replication - 2.5 Gbps	VSTR2005	This service has limited availability and is only available at 2.5 Gbps.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
334	VPLS NATIONAL Traffic Replication - 3 Gbps	VSTR3000	This service has limited availability and is only available at 3 Gbps.
335	VPLS NATIONAL Traffic Replication - 4 Gbps	VSTR4000	This service has limited availability and is only available at 4 Gbps.
336	VPLS NATIONAL Traffic Replication - 5 Gbps	VSTR5000	This service has limited availability and is only available at 5 Gbps.
337	VPLS NATIONAL Traffic Replication - 6 Gbps	VSTR6000	This service has limited availability and is only available at 6 Gbps.
338	VPLS NATIONAL Traffic Replication - 7 Gbps	VSTR7000	This service has limited availability and is only available at 7 Gbps.
339	VPLS NATIONAL Traffic Replication - 8 Gbps	VSTR8000	This service has limited availability and is only available at 8 Gbps.
340	VPLS NATIONAL Traffic Replication - 9 Gbps	VSTR9000	This service has limited availability and is only available at 9 Gbps.
341	VPLS NATIONAL Traffic Replication - 10 Gbps	VLNT0010	This service has limited availability and is only available at 10 Gbps.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
342	Ethernet WAVE National Service Unprotected IXC Transport Airline Mileage Band A (1-200) 1 Gbps Bandwidth	EWCL0000	Ethernet WAVE National Service Unprotected IXC InterLATA Transport provides unprotected high speed dedicated bandwidth connectivity between two customer-designated endpoints, service includes a defined Airline Mileage Band A through D. This line item requires WAVE Service Access.
343	Ethernet WAVE National Service Unprotected IXC Transport Airline Mileage Band A (1-200) 10 Gbps Bandwidth	EFCW0000	Ethernet WAVE National Service Unprotected IXC InterLATA Transport provides unprotected high speed dedicated bandwidth connectivity between two customer-designated endpoints, service includes a defined Airline Mileage Band A through D. This line item requires WAVE Service Access.
344	Ethernet WAVE National Service Unprotected IXC Transport Airline Mileage Band A (1-200) 100 Gbps Bandwidth	EXGY0000	Ethernet WAVE National Service Unprotected IXC InterLATA Transport provides unprotected high speed dedicated bandwidth connectivity between two customer-designated endpoints, service includes a defined Airline Mileage Band A through D. This line item requires WAVE Service Access.
345	Ethernet WAVE National Service Unprotected IXC Transport Airline Mileage Band B (201-700) 1 Gbps Bandwidth	LMTV0000	Ethernet WAVE National Service Unprotected IXC InterLATA Transport provides unprotected high speed dedicated bandwidth connectivity between two customer-designated endpoints, service includes a defined Airline Mileage Band A through D. This line item requires WAVE Service Access.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
346	Ethernet WAVE National Service Unprotected IXCTransport Transport Airline Mileage Band B (201-700) 10 Gbps Bandwidth	EFKE0000	Ethernet WAVE National Service Unprotected IXC InterLATA Transport provides unprotected high speed dedicated bandwidth connectivity between two customer-designated endpoints, service includes a defined Airline Mileage Band A through D. This line item requires WAVE Service Access.
347	Ethernet WAVE National Service Unprotected IXCTransport Transport Airline Mileage Band B (201-700) 100 Gbps Bandwidth	TWVE0000	Ethernet WAVE National Service Unprotected IXC InterLATA Transport provides unprotected high speed dedicated bandwidth connectivity between two customer-designated endpoints, service includes a defined Airline Mileage Band A through D. This line item requires WAVE Service Access.
348	Ethernet WAVE National Service Unprotected IXCTransport Transport Airline Mileage Band C (701 - 1200) 1 Gig Bandwidth	WPSE0000	Ethernet WAVE National Service Unprotected IXC InterLATA Transport provides unprotected high speed dedicated bandwidth connectivity between two customer-designated endpoints, service includes a defined Airline Mileage Band A through D. This line item requires WAVE Service Access.
349	Ethernet WAVE National Service Unprotected IXCTransport Transport Airline Mileage Band C (701 - 1200) 10 Gig Bandwidth	EVUU0000	Ethernet WAVE National Service Unprotected IXC InterLATA Transport provides unprotected high speed dedicated bandwidth connectivity between two customer-designated endpoints, service includes a defined Airline Mileage Band A through D. This line item requires WAVE Service Access.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
350	Ethernet WAVE National Service Unprotected IXCTransport Transport Airline Mileage Band C (701 - 1200) 100 Gig Bandwidth	ENUI0000	Ethernet WAVE National Service Unprotected IXC InterLATA Transport provides unprotected high speed dedicated bandwidth connectivity between two customer-designated endpoints, service includes a defined Airline Mileage Band A through D. This line item requires WAVE Service Access.
351	Ethernet WAVE National Service Unprotected IXCTransport Transport Airline Mileage Band D (1201 - 2000) 1 Gig Bandwidth	EJOJ0000	Ethernet WAVE National Service Unprotected IXC InterLATA Transport provides unprotected high speed dedicated bandwidth connectivity between two customer-designated endpoints, service includes a defined Airline Mileage Band A through D. This line item requires WAVE Service Access.
352	Ethernet WAVE National Service Unprotected IXCTransport Transport Airline Mileage Band D (1201 - 2000) 10 Gig Bandwidth	WXZV0000	Ethernet WAVE National Service Unprotected IXC InterLATA Transport provides unprotected high speed dedicated bandwidth connectivity between two customer-designated endpoints, service includes a defined Airline Mileage Band A through D. This line item requires WAVE Service Access.
353	Ethernet WAVE National Service Unprotected IXCTransport Transport Airline Mileage Band D (1201 - 2000) 100 Gig Bandwidth	WZGE0000	Ethernet WAVE National Service Unprotected IXC InterLATA Transport provides unprotected high speed dedicated bandwidth connectivity between two customer-designated endpoints, service includes a defined Airline Mileage Band A through D. This line item requires WAVE Service Access.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
354	Ethernet WAVE National Service Unprotected IXCTransport Transport Airline Mileage Band D (2000+) 1 Gig Bandwidth	EIRD0000	Ethernet WAVE National Service Unprotected IXC InterLATA Transport provides unprotected high speed dedicated bandwidth connectivity between two customer-designated endpoints, service includes a defined Airline Mileage Band A through D. This line item requires WAVE Service Access.
355	Ethernet WAVE National Service Unprotected IXCTransport Transport Airline Mileage Band D (2000+) 10 Gig Bandwidth	WUIJ0000	Ethernet WAVE National Service Unprotected IXC InterLATA Transport provides unprotected high speed dedicated bandwidth connectivity between two customer-designated endpoints, service includes a defined Airline Mileage Band A through D. This line item requires WAVE Service Access.
356	Ethernet WAVE National Service Unprotected IXCTransport Transport Airline Mileage Band D (2000+) 100 Gig Bandwidth	WSKQ0000	Ethernet WAVE National Service Unprotected IXC InterLATA Transport provides unprotected high speed dedicated bandwidth connectivity between two customer-designated endpoints, service includes a defined Airline Mileage Band A through D. This line item requires WAVE Service Access.
357	Ethernet WAVE National Service OTN Mesh Protected IXC Transport Airline Mileage Band A (1-200) 10 Gig Bandwidth	ETGP0000	Ethernet WAVE National Service Unprotected IXC InterLATA Transport provides unprotected high speed dedicated bandwidth connectivity between two customer-designated endpoints, service includes a defined Airline Mileage Band A through D. This line item requires WAVE Service Access.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
358	Ethernet WAVE National Service OTN Mesh Protected IXC Transport Airline Mileage Band B (201-700) 10 Gig Bandwidth	EVCO0000	Ethernet WAVE National Service Unprotected IXC InterLATA Transport provides unprotected high speed dedicated bandwidth connectivity between two customer-designated endpoints, service includes a defined Airline Mileage Band A through D. This line item requires WAVE Service Access.
359	Ethernet WAVE National Service OTN Mesh Protected IXC Transport Airline Mileage Band C (701 - 1200) 10 Gig Bandwidth	CLRM0000	Ethernet WAVE National Service Unprotected IXC InterLATA Transport provides unprotected high speed dedicated bandwidth connectivity between two customer-designated endpoints, service includes a defined Airline Mileage Band A through D. This line item requires WAVE Service Access.
360	Ethernet WAVE National Service OTN Mesh Protected IXC Transport Airline Mileage Band D (1201 - 2000) 10 Gig Bandwidth	NYPN0000	Ethernet WAVE National Service Unprotected IXC InterLATA Transport provides unprotected high speed dedicated bandwidth connectivity between two customer-designated endpoints, service includes a defined Airline Mileage Band A through D. This line item requires WAVE Service Access.
361	Ethernet WAVE National Service OTN Mesh Protected IXC Transport Airline Mileage Band E (2000+) 10 Gig Bandwidth	ETQK0000	Ethernet WAVE National Service Unprotected IXC InterLATA Transport provides unprotected high speed dedicated bandwidth connectivity between two customer-designated endpoints, service includes a defined Airline Mileage Band A through D. This line item requires WAVE Service Access.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
362	Ethernet WAVE National Service 1 + 1 Protected IXC Transport Airline Mileage Band A (1-200) 10 Gig Bandwidth	CFHA0000	Ethernet WAVE National Service 1 + 1 Protected IXC InterLATA Transport provides unprotected high speed dedicated bandwidth connectivity between two customer-designated endpoints, service includes a defined Airline Mileage Band A through D. This line item requires WAVE Service Access.
363	Ethernet WAVE National Service 1 + 1 Protected IXC Transport Airline Mileage Band A (1-200) 40 Gig Bandwidth	ELOU0000	Ethernet WAVE National Service 1 + 1 Protected IXC InterLATA Transport provides unprotected high speed dedicated bandwidth connectivity between two customer-designated endpoints, service includes a defined Airline Mileage Band A through D. This line item requires WAVE Service Access.
364	Ethernet WAVE National Service 1 + 1 Protected IXC Transport Airline Mileage Band A (1-200) 100 Gig Bandwidth	KBIP0000	Ethernet WAVE National Service 1 + 1 Protected IXC InterLATA Transport provides unprotected high speed dedicated bandwidth connectivity between two customer-designated endpoints, service includes a defined Airline Mileage Band A through D. This line item requires WAVE Service Access.
365	Ethernet WAVE National Service 1 + 1 Protected IXC Transport Airline Mileage Band B (201-700) 10 Gig Bandwidth	PIXT0000	Ethernet WAVE National Service 1 + 1 Protected IXC InterLATA Transport provides unprotected high speed dedicated bandwidth connectivity between two customer-designated endpoints, service includes a defined Airline Mileage Band A through D. This line item requires WAVE Service Access.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
366	Ethernet WAVE National Service 1 + 1 Protected IXC Transport Airline Mileage Band B (201-700) 40 Gig Bandwidth	LSEB0000	Ethernet WAVE National Service 1 + 1 Protected IXC InterLATA Transport provides unprotected high speed dedicated bandwidth connectivity between two customer-designated endpoints, service includes a defined Airline Mileage Band A through D. This line item requires WAVE Service Access.
367	Ethernet WAVE National Service 1 + 1 Protected IXC Transport Airline Mileage Band B (201-700) 100 Gig Bandwidth	TYJR0000	Ethernet WAVE National Service 1 + 1 Protected IXC InterLATA Transport provides unprotected high speed dedicated bandwidth connectivity between two customer-designated endpoints, service includes a defined Airline Mileage Band A through D. This line item requires WAVE Service Access.
368	Ethernet WAVE National Service 1 + 1 Protected IXC Transport Airline Mileage Band C (701 - 1200) 10 Gig Bandwidth	TPBU0000	Ethernet WAVE National Service 1 + 1 Protected IXC InterLATA Transport provides unprotected high speed dedicated bandwidth connectivity between two customer-designated endpoints, service includes a defined Airline Mileage Band A through D. This line item requires WAVE Service Access.
369	Ethernet WAVE National Service 1 + 1 Protected IXC Transport Airline Mileage Band C (701 - 1200) 40 Gig Bandwidth	IKNS0000	Ethernet WAVE National Service 1 + 1 Protected IXC InterLATA Transport provides unprotected high speed dedicated bandwidth connectivity between two customer-designated endpoints, service includes a defined Airline Mileage Band A through D. This line item requires WAVE Service Access.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
370	Ethernet WAVE National Service 1 + 1 Protected IXC Transport Airline Mileage Band C (701 - 1200) 100 Gig Bandwidth	ICKO0000	Ethernet WAVE National Service 1 + 1 Protected IXC InterLATA Transport provides unprotected high speed dedicated bandwidth connectivity between two customer-designated endpoints, service includes a defined Airline Mileage Band A through D. This line item requires WAVE Service Access.
371	Ethernet WAVE National Service 1 + 1 Protected IXC Transport Airline Mileage Band D (1201 - 2000) 10 Gig Bandwidth	PQUK0000	Ethernet WAVE National Service 1 + 1 Protected IXC InterLATA Transport provides unprotected high speed dedicated bandwidth connectivity between two customer-designated endpoints, service includes a defined Airline Mileage Band A through D. This line item requires WAVE Service Access.
372	Ethernet WAVE National Service 1 + 1 Protected IXC Transport Airline Mileage Band D (1201 - 2000) 40 Gig Bandwidth	SRSF0000	Ethernet WAVE National Service 1 + 1 Protected IXC InterLATA Transport provides unprotected high speed dedicated bandwidth connectivity between two customer-designated endpoints, service includes a defined Airline Mileage Band A through D. This line item requires WAVE Service Access.
373	1 + 1 Protected IXC Transport Airline Mileage Band D (1201 - 2000) 100 Gig Bandwidth	CGYU0000	Ethernet WAVE National Service 1 + 1 Protected IXC InterLATA Transport provides unprotected high speed dedicated bandwidth connectivity between two customer-designated endpoints, service includes a defined Airline Mileage Band A through D. This line item requires WAVE Service Access.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
374	Ethernet WAVE National Service 1 + 1 Protected IXC Transport Airline Mileage Band E (2000+) 10 Gig Bandwidth	FGXG0000	Ethernet WAVE National Service 1 + 1 Protected IXC InterLATA Transport provides unprotected high speed dedicated bandwidth connectivity between two customer-designated endpoints, service includes a defined Airline Mileage Band A through D. This line item requires WAVE Service Access.
375	Ethernet WAVE National Service 1 + 1 Protected IXC Transport Airline Mileage Band E (2000+) 40 Gig Bandwidth	SRTT0000	Ethernet WAVE National Service 1 + 1 Protected IXC InterLATA Transport provides unprotected high speed dedicated bandwidth connectivity between two customer-designated endpoints, service includes a defined Airline Mileage Band A through D. This line item requires WAVE Service Access.
376	Ethernet WAVE National Service 1 + 1 Protected IXC Transport Airline Mileage Band E (2000+) 100 Gig Bandwidth	VSWG0000	Ethernet WAVE National Service 1 + 1 Protected IXC InterLATA Transport provides unprotected high speed dedicated bandwidth connectivity between two customer-designated endpoints, service includes a defined Airline Mileage Band A through D. This line item requires WAVE Service Access.
377	Ethernet WAVE National Service Access Unprotected 1 Gbps Bandwidth	ENUR0000	Ethernet WAVE National Service Access Unprotected defined Gbps Bandwidth that provides high speed dedicated bandwidth connectivity between customer endpoint locations to the Verizon Point of Presence (POP). This line item requires IXC transport.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
378	Ethernet WAVE National Service Access Unprotected 2.5 Gbps Bandwidth	WJDU0000	Ethernet WAVE National Service Access Unprotected defined Gbps Bandwidth that provides high speed dedicated bandwidth connectivity between customer endpoint location to the Verizon Point of Presence (POP). This line item requires IXC transport.
379	Ethernet WAVE National Service Access Unprotected 10 Gbps Bandwidth	TJKT0000	Ethernet WAVE National Service Access Unprotected defined Gbps Bandwidth that provides high speed dedicated bandwidth connectivity between customer endpoint location to the Verizon Point of Presence (POP). This line item requires IXC transport.
380	Ethernet WAVE National Service Access Unprotected 40 Gbps Bandwidth	ETWH0000	Ethernet WAVE National Service Access Unprotected defined Gbps Bandwidth that provides high speed dedicated bandwidth connectivity between customer endpoint location to the Verizon Point of Presence (POP). This line item requires IXC transport.
381	Ethernet WAVE National Service Access Unprotected 100 Gbps Bandwidth	WIUE0000	Ethernet WAVE National Service Access Unprotected defined Gbps Bandwidth that provides high speed dedicated bandwidth connectivity between customer endpoint location to the Verizon Point of Presence (POP). This line item requires IXC transport.
382	Ethernet WAVE National Service Access Protected 1 Gbps Bandwidth	NSPW0000	Ethernet WAVE National Service Access Protected defined Gbps Bandwidth that provides high speed dedicated bandwidth connectivity between customer endpoint location to the Verizon Point of Presence (POP). This line item requires IXC transport.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
383	Ethernet WAVE National Service Access Protected 1.2 Gbps Bandwidth	WPRT0000	Ethernet WAVE National Service Access Protected defined Gbps Bandwidth that provides high speed dedicated bandwidth connectivity between customer endpoint location to the Verizon Point of Presence (POP). This line item requires IXC transport.
384	Ethernet WAVE National Service Access Protected 10 Gbps Bandwidth	EOPF0000	Ethernet WAVE National Service Access Protected defined Gbps Bandwidth that provides high speed dedicated bandwidth connectivity between customer endpoint location to the Verizon Point of Presence (POP). This line item requires IXC transport.
385	Ethernet WAVE National Service Access Protected 40 Gbps Bandwidth	RTGO0000	Ethernet WAVE National Service Access Protected defined Gbps Bandwidth that provides high speed dedicated bandwidth connectivity between customer endpoint location to the Verizon Point of Presence (POP). This line item requires IXC transport.
386	Ethernet WAVE National Service Access Protected 100 Gbps Bandwidth	NPSL0000	Ethernet WAVE National Service Access Protected defined Gbps Bandwidth that provides high speed dedicated bandwidth connectivity between customer endpoint location to the Verizon Point of Presence (POP). This line item requires IXC transport.
387	Ethernet WAVE National Service Access Channelized Unprotected 10 Gbps	IFSB0000	Ethernet WAVE National Service Access Unprotected defined Gbps Bandwidth that provides high speed dedicated bandwidth connectivity between customer endpoint location to the Verizon Point of Presence (POP). This line item requires IXC transport.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
388	Ethernet WAVE National Service Access Channelized Unprotected 40 Gbps	BLST0000	Ethernet WAVE National Service Access Unprotected defined Gbps Bandwidth that provides high speed dedicated bandwidth connectivity between customer endpoint location to the Verizon Point of Presence (POP). This line item requires IXC transport.
389	Ethernet WAVE National Service Access Channelized Protected 10 Gbps	FMWV0000	Ethernet WAVE National Service Access Protected defined Gbps Bandwidth that provides high speed dedicated bandwidth connectivity between customer endpoint location to the Verizon Point of Presence (POP). This line item requires IXC transport.
390	Ethernet WAVE National Service Access Channelized Unprotected 40 Mbps	EJGU0000	Ethernet WAVE National Service Access Unprotected defined Gbps Bandwidth that provides high speed dedicated bandwidth connectivity between customer endpoint location to the Verizon Point of Presence (POP). This line item requires IXC transport.
391	Expedite Carrier Service	EPXC0000	Expedite Carrier Service Verizon is proposing Expedite Carrier Service that will provide improved installation intervals less than the standard intervals.
392	TSP Emergency Provisioning and Essential Provisioning – Circuits without LEC Termination	TMRE0000	TSP Emergency Provisioning or Essential Provisioning are available on a per circuit one time charge with or without LEC terminations.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
393	TSP Emergency Provisioning and Essential Provisioning – Circuits with LEC Termination – Single & Additional	TMRA0000	TSP Emergency Provisioning or Essential Provisioning are available on a per circuit one time charge with or without LEC terminations.
394	CA TSP Priority Restoration – Circuits without LEC Termination	CATU0000	TSP Priority Restoration are available on a per circuit one time and monthly charge with or without LEC terminations.
395	CA TSP Priority Restoration – Circuits with LEC Termination, Single & Additional	CACT0000	TSP Priority Restoration are available on a per circuit one time and monthly charge with or without LEC terminations.
396	CO TSP Priority Restoration – Circuits without LEC Termination	CKWU0000	TSP Priority Restoration are available on a per circuit one time and monthly charge with or without LEC terminations.
397	CO TSP Priority Restoration – Circuits with LEC Termination, Single & Additional	CWRA0000	TSP Priority Restoration are available on a per circuit one time and monthly charge with or without LEC terminations.
398	NY TSP Priority Restoration – Circuits without LEC Termination	UBNT0000	One-time, Monthly, & Change per circuit charges apply for Priority Restoration, depending on whether installation of the TSP priority code includes LEC termination.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
399	NY TSP Priority Restoration – Circuits with LEC Termination, Single & Additional	UBNA0000	One-time, Monthly, & Change per circuit charges apply for Priority Restoration, depending on whether installation of the TSP priority code includes LEC termination.
400	VA TSP Priority Restoration – Circuits without LEC Termination	VRZG0000	One-time, Monthly, & Change per circuit charges apply for Priority Restoration, depending on whether installation of the TSP priority code includes LEC termination.
401	VA TSP Priority Restoration – Circuits with LEC Termination, Single & Additional	VRGA0000	One-time, Monthly, & Change per circuit charges apply for Priority Restoration, depending on whether installation of the TSP priority code includes LEC termination.
402	WA TSP Priority Restoration – Circuits without LEC Termination	WECS0000	One-time, Monthly, & Change per circuit charges apply for Priority Restoration, depending on whether installation of the TSP priority code includes LEC termination.
403	WA TSP Priority Restoration – Circuits with LEC Termination, Single & Additional	WAJM0000	One-time, Monthly, & Change per circuit charges apply for Priority Restoration, depending on whether installation of the TSP priority code includes LEC termination.
404	CA TSP Local Access Channel Charge - Provisioning	CLTC0000	TSP Local Access Channel Charge are available on a per channel one time charge state.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
405	CA TSP Local Access Channel Charge - Priority Restoration	CLTA0000	TSP Local Access Channel Charge are available on a per channel one time charge state.
406	CO TSP Local Access Channel Charge - Provisioning	CLCA0000	TSP Local Access Channel Charge are available on a per channel one time charge state.
407	CO TSP Local Access Channel Charge - Priority Restoration	CLKA0000	TSP Local Access Channel Charge are available on a per channel one time charge state.
408	NY TSP Local Access Channel Charge - Provisioning	NTBA0000	TSP Local Access Channel Charge are available on a per channel one time charge state.
409	NY TSP Local Access Channel Charge - Priority Restoration	NTBR0000	TSP Local Access Channel Charge are available on a per channel one time charge state.
410	VA TSP Local Access Channel Charge - Provisioning	VOQN0000	TSP Local Access Channel Charge are available on a per channel one time charge state.
411	VA TSP Local Access Channel Charge - Priority Restoration	VBMT0000	TSP Local Access Channel Charge are available on a per channel one time charge state.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
412	WA TSP Local Access Channel Charge - Provisioning	WJLY0000	TSP Local Access Channel Charge are available on a per channel one time charge state.
413	WA TSP Local Access Channel Charge - Priority Restoration	WJLA0000	TSP Local Access Channel Charge are available on a per channel one time charge state.

23.2.1.7 MAE Service Geographic Service Areas

Bidder shall identify the locations where their EPL and EVPL MAE Services are available in Table 23.2.1.7.a. The Contractor shall provide the service where commercially available through Contractor owned facilities, third-party agreements, and as allowed by State or Federal regulations. Commitment to provide service is subject to facility availability as determined by the Bidder at time of bid submission and may be reassessed by Contractor at time of service order.

Bidder understands the requirements and shall meet or exceed them? Yes

Special construction charges that may be required to provide this service are not included in this offering or contained within the CALNET contracts and must be acquired by the customer directly through other procurement means.

Bidder understands the requirements and shall meet or exceed them? Yes

Table 23.2.1.7.a – Bidder's MAE Services Service Locations

Line Item	Service Location – City or ZIP Code	EPL MAE Service 10/100 Mbps	EPL MAE Service 1 Gbps	EPL MAE Service 10 Gbps	EVPL MAE Service 10/100 Mbps	EVPL MAE Service 1 Gbps	EVPL MAE Service 10 Gbps
1	Los Angeles CLLI Code LSANCA03	Yes	Yes	Yes	Yes	Yes	Yes
2	Sacramento: CLLI Code FROKCA11W12	Yes	Yes	Yes	Yes	Yes	Yes

Line Item	Service Location – City or ZIP Code	EPL MAE Service 10/100 Mbps	EPL MAE Service 1 Gbps	EPL MAE Service 10 Gbps	EVPL MAE Service 10/100 Mbps	EVPL MAE Service 1 Gbps	EVPL MAE Service 10 Gbps
3		Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.
4		Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.
5		Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.
6		Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.
7		Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.
8		Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.
9		Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.
10		Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.

23.3 NETWORK DISASTER/OPERATIONAL RECOVERY

23.3.1 Telecommunications Service Priority (TSP) Program

When applicable, the Contractor shall comply with the Telecommunications Service Priority (TSP) Program, a Federal Communications Commission (FCC) mandate for prioritizing service requests by identifying those services critical to National Security and Emergency Preparedness (NS/EP) and be in compliance with all related CPUC and FCC requirements.

Bidder understands the requirements and shall meet or exceed them? Yes

23.4 OTHER SERVICES

23.4.1 Hourly Rates for Services

The hourly classifications of hours worked for services described in this section will be as follows:

1. Regular Hours – Hours worked between 8:00AM and 4:59PM, Monday through Friday.
2. Overtime Hours – Hours worked between 5:00PM and 7:59AM, Monday through Friday and all day Saturday.
3. Sunday and Holiday Hours – Any hours worked on Sunday or State of California holidays.

When coordinated scheduling for projects between the State and the Contractor occurs, the State and the Contractor may mutually agree that hours worked between 5:00PM and 7:59AM, Monday through Friday and all day Saturday and any hours worked on Sunday or State of California holidays can be classified as Regular Hours in accordance with the State of California Department of Industrial Relations.

Bidder understands this Requirement and shall meet or exceed it? Yes

23.4.2 Services Related Infrastructure (SRI)

The Contractor shall offer infrastructure service as defined below.

23.4.2.1 Extended Demarcation Wiring Services

The Contractor shall provide Extended Demarcation (Extended Demarc) wiring to support the services covered by this IFB C4DNCS19 Category for all of the Customer occupied buildings where services under this Contract are being offered. Extended Demarc wiring includes wire/cable related activities required to extend the demarcation point to the Customer defined termination location or cross-connect point from the Contractor's Minimum Point of Entry (MPOE).

Bidder understands this Requirement and shall meet or exceed it? Yes

Extended Demarc wiring shall include the necessary wire/cable, connectors, jumpers, panel, and jack. Extended Demarc wiring shall also include associated trouble shooting, testing and labeling. Extended Demarc wiring is limited to the following:

1. Installation of cabling for extending services from the MPOE location to the Customer's point of utilization;

2. Installation of cross-connects or rearrangement of existing jumpers;
3. Identification and testing of existing cabling beyond the MPOE to the Customer's Equipment location; and,
4. Installation intervals shall be in accordance with the timeframes identified for the services that this cabling will support, and shall be subject to the SLAs associated with that service.

Bidder understands this Requirement and shall meet or exceed it? Yes

The Contractor shall not be required to complete Extended Demarc wiring from the MPOE to the extended Demarc location if:

1. The wire/cable pathway is blocked, and cannot be cleared without significant effort or damage to the Customer site;
2. The wire/cable pathway is in an asbestos or other environment hazardous to the Contractor's personnel, or where such work would be hazardous to the public or to the Customer's staff; or,
3. Upon written release provided by either the Customer or by the CALNET Program.

The Bidder shall provide a price in the Cost Worksheets for all labor and materials required for Extended Demarc wiring necessary to complete the provisioning of one Demarc extension as described herein. The Bidder shall provide one price for each media identified.

Wiring will be installed according to industry Standards and cabling recommendations published in the State Telecommunications Management Manual (STMM), Facilities Management Chapter, and Uniform Building Cabling/Wiring current at the time of this IFB and as periodically updated by the CALNET Program. Additionally, all wiring installation and maintenance activities will be in accordance with all applicable EIA/TIA, BICSI, and ITU-T recommended standards current at the time of installation or maintenance.

Bidder understands this Requirement and shall meet or exceed it? Yes

Bidder shall provide the Extended Demarcation Wiring Services described in Table 23.4.2.1.

Table 23.4.2.1 – Extended Demarcation Wiring Services

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
1	Extended Demarcation -Copper – Regular Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment. Includes 300 feet of four-pair cable and an RJ48 or equivalent jack.	Verizon will provide wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment. Includes 300 feet of four-pair cable and an RJ48 or equivalent jack.	WRCR0000	Yes
2	Extended Demarcation -Copper – Overtime Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment. Includes 300 feet of four-pair cable and an RJ48 or equivalent jack.	Verizon will provide wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment. Includes 300 feet of four-pair cable and an RJ48 or equivalent jack.	WRCO0000	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
3	Extended Demarcation -Copper – Sunday and Holiday Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment. Includes 300 feet of four-pair cable and an RJ48 or equivalent jack.	Verizon will provide wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment. Includes 300 feet of four-pair cable and an RJ48 or equivalent jack.	WRCH0000	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
4	Extended Demarcation -Copper 25 Pair – Regular Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment. Includes 300 feet or less of Category 5 25-pair CMP cable, one patch panel and mounting hardware. Ten Category 5e, three meter jumpers; one 24-port patch panel to be provided in the MPOE and Intermediate Distribution Frame (IDF) for all circuits being extended. Includes associated troubleshooting, testing, and labeling.	Verizon will provide wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment. Includes 300 feet or less of Category 5 25-pair CMP cable, one patch panel and mounting hardware. Ten Category 5e, three meter jumpers; one 24-port patch panel to be provided in the MPOE and Intermediate Distribution Frame (IDF) for all circuits being extended. Includes associated troubleshooting, testing, and labeling.	WRSR0025	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
5	Extended Demarcation -Copper 25 Pair – Overtime Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment. Includes 300 feet or less of Category 5 25-pair CMP cable, one patch panel and mounting hardware. Ten Category 5e, three meter jumpers; one 24-port patch panel to be provided in the MPOE and Intermediate Distribution Frame (IDF) for all circuits being extended. Includes associated troubleshooting, testing, and labeling.	Verizon will provide wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment. Includes 300 feet or less of Category 5 25-pair CMP cable, one patch panel and mounting hardware. Ten Category 5e, three meter jumpers; one 24-port patch panel to be provided in the MPOE and Intermediate Distribution Frame (IDF) for all circuits being extended. Includes associated troubleshooting, testing, and labeling.	WRSO0025	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
6	Extended Demarcation -Copper 25 Pair – Sunday and Holiday Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment. Includes 300 feet or less of Category 5 25-pair CMP cable, one patch panel and mounting hardware. Ten Category 5e, three meter jumpers; one 24-port patch panel to be provided in the MPOE and Intermediate Distribution Frame (IDF) for all circuits being extended. Includes associated troubleshooting, testing, and labeling.	Verizon will provide wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment. Includes 300 feet or less of Category 5 25-pair CMP cable, one patch panel and mounting hardware. Ten Category 5e, three meter jumpers; one 24-port patch panel to be provided in the MPOE and Intermediate Distribution Frame (IDF) for all circuits being extended. Includes associated troubleshooting, testing, and labeling.	WRSH0025	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
7	Extended Demarcation - Optical Fiber Link – Regular Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a fiber trunk or trunking equipment, Strand count required to provision one/each service only. Includes up to 1,000 feet of 62.5/125 – or 50/125 – micron, two-strand CMP fiber drop cable with adapters, enclosures, connectors, and two SC-SC duplex patch cords for each single circuit extension. Includes associated troubleshooting, testing and labeling.	Verizon will provide wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a fiber trunk or trunking equipment, Strand count required to provision one/each service only. Includes up to 1,000 feet of 62.5/125 – or 50/125 – micron, two-strand CMP fiber drop cable with adapters, enclosures, connectors, and two SC-SC duplex patch cords for each single circuit extension. Includes associated troubleshooting, testing and labeling.	WOFR0000	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
8	Extended Demarcation - Optical Fiber Link – Overtime Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a fiber trunk or trunking equipment, Strand count required to provision one/each service only. Includes up to 1,000 feet of 62.5/125 – or 50/125 – micron, two-strand CMP fiber drop cable with adapters, enclosures, connectors, and two SC-SC duplex patch cords for each single circuit extension. Includes associated troubleshooting, testing and labeling.	Verizon will provide wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a fiber trunk or trunking equipment, Strand count required to provision one/each service only. Includes up to 1,000 feet of 62.5/125 – or 50/125 – micron, two-strand CMP fiber drop cable with adapters, enclosures, connectors, and two SC-SC duplex patch cords for each single circuit extension. Includes associated troubleshooting, testing and labeling.	WOFO0000	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
9	Extended Demarcation - Optical Fiber Link – Sunday and Holiday Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a fiber trunk or trunking equipment, Strand count required to provision one/each service only. Includes up to 1,000 feet of 62.5/125 – or 50/125 – micron, two-strand CMP fiber drop cable with adapters, enclosures, connectors, and two SC-SC duplex patch cords for each single circuit extension. Includes associated troubleshooting, testing and labeling.	Verizon will provide wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a fiber trunk or trunking equipment, Strand count required to provision one/each service only. Includes up to 1,000 feet of 62.5/125 – or 50/125 – micron, two-strand CMP fiber drop cable with adapters, enclosures, connectors, and two SC-SC duplex patch cords for each single circuit extension. Includes associated troubleshooting, testing and labeling.	WOFH0000	Yes

23.4.2.2 Unsolicited Services Related Infrastructure

Bidder may offer additional unsolicited Services Related Infrastructure in Table 23.4.2.2.

Table 23.4.2.2 – Unsolicited Services Related Infrastructure

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
1	Regular Hours - Pathway Component Service - J-Hook and Hangers 300' package furnish and installed	PRIW0002	<p>Extended Demarcation Wiring Services Pathway Components Services - Verizon will furnish and Install Standard J Hooks and Hangers in support of 300' cable package and Installation - Regular Hours.</p> <p>Only to be sold in conjunction with the provisioning of dedicated services specifically listed in this Category.</p>
2	Regular Hours - Pathway Components Services - Raceway 1" Top and Base with End Caps Non-Metallic 10' package	PRIW0012	<p>Extended Demarcation Wiring Services Pathway Components Services - Surface Raceway 1" Top and Base with End Caps Non-Metallic 10' package.</p> <p>Only to be sold in conjunction with the provisioning of dedicated services specifically listed in this Category.</p>
3	Regular Hours - Pathway Components Services – Surface Raceway 2" Top and Base with End Caps Non-Metallic 10' package	PRIW0013	<p>Extended Demarcation Wiring Services Pathway Components Services - Surface Raceway 2" Top and Base with End Caps Non-Metallic 10' package.</p> <p>Only to be sold in conjunction with the provisioning of dedicated</p>

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
			services specifically listed in this Category.
4	Regular Hours - Telco Room - MDF/IDF/MPOE- Install customer provided UPS	THHR0001	Install customer provided UPS. Only to be sold in conjunction with the provisioning of dedicated services specifically listed in this Category.
5	Regular Hours - Telco Room - MDF/IDF/MPOE - Cable 48-port switch (patch cords)	THHR0002	Install patch cords in customer provided device. Total of 48 patch cords provided and installed.
6	Regular Hours - Telco Room - MDF/IDF/MPOE- 7' 2-post rack	THHR0003	Provide and install 7' 2-post rack.
7	Regular Hours - Telco Room - MDF/IDF/MPOE- 7' 4-post rack rack	THHR0004	Provide and install 7' 4-post rack.
8	Regular Hours - Telco Room - MDF/IDF/MPOE- 36"Hx19"Wx24"D Cube-It Wall Mount Enclosure with Plexi Door Black	THHR0005	Provide and install 36"Hx19"Wx24"D CUBE-IT Wall Mount Enclosure with Plexi Door Black.
9	Regular Hours - Telco Room - MDF/IDF/MPOE- Fan Kit for CUBE-IT Enclosure	THHR0006	Provide and install Fan Kit for CUBE-IT Enclosure.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
10	Regular Hours - Telco Room - MDF/IDF/MPOE- Filter Kit for CUBE-IT Enclosure	THHR0007	Provide and install Filter Kit for CUBE-IT Enclosure.
11	Regular Hours - Telco Room - MDF/IDF/MPOE- 26"Hx26"Wx8.5"D Thinline II Wallmount Hinged Door Enclosure	THHR0008	Provide and install 26"Hx26"Wx8.5"D Thinline II Wallmount Hinged Door Enclosure.
12	Regular Hours - Telco Room - MDF/IDF/MPOE- 36"Hx26"Wx8.5"D Thinline II Wallmount Hinged Door Enclosure	THHR0009	Provide and install 36"Hx26"Wx8.5"D Thinline II Wallmount Hinged Door Enclosure.
13	Regular Hours - Telco Room - MDF/IDF/MPOE- Thinline II Duplex Receptacle Surge-Supressed	THHR0010	Provide and install Thinline II Duplex Receptacle Surge-Suppressed.
14	Regular Hours - Telco Room - MDF/IDF/MPOE- Thinline II Intelligent Fan kit	THHR0011	Provide and install Thinline II Intelligent Fan kit.
15	Regular Hours - Telco Room - MDF/IDF/MPOE- 14.5"Hx23.63"Wx17.7"D SmartRack Low Profile 6U Locking Wall Enclosure	THHR0012	14.5"Hx23.63"Wx17.7"D SmartRack Low Profile 6U Locking Wall Enclosure.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
16	Regular Hours - Telco Room - MDF/IDF/MPOE- Install customer provided rack	THHR0013	Install customer provided rack. Must be ordered in conjunction with material component in this Section
17	Regular Hours - Telco Room - MDF/IDF/MPOE- Horizontal wire manager	THHR0014	Install and provide horizontal wire manager.
18	Regular Hours - Telco Room - MDF/IDF/MPOE- Vertical wire manager	THHR0015	Install and provide vertical wire manager.
19	Regular Hours - Telco Room - MDF/IDF/MPOE- Install customer provided wire manager	THHR0016	Install customer provided wire manager. Must be ordered in conjunction with a material component in this Category.
20	Regular Hours - Telco Room - MDF/IDF/MPOE- Shelf (single sided 3U)	THHR0017	Provide and install Shelf (single sided 3U).
21	Regular Hours - Telco Room - MDF/IDF/MPOE- Customer provided shelf	THHR0018	Install Customer provided shelf. Must be ordered in conjunction with material component in this Section.
22	Regular Hours - Telco Room - MDF/IDF/MPOE- Hinged Wall Bracket	THHR0019	Provide and install Hinged Wall Bracket.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
23	Regular Hours - Telco Room - MDF/IDF/MPOE- 4' x 4' x 3/4" painted plywood backboard	THHR0020	Provide and install 4' x 4' x 3/4" painted plywood backboard.
24	Regular Hours - Telco Room - MDF/IDF/MPOE-Telco Room - MDF/IDF/MPOE- 4' x 8' x 3/4" painted plywood backboard	THHR0021	Provide and install MDF/IDF/MPOE - 4' x 8' x 3/4" painted plywood backboard.
25	Regular Hours - Telco Room - MDF/IDF/MPOE- Rack mounted Power strip (4 outlets)	THHR0022	Provide and install Rack mounted Power strip (4 outlets).
26	Regular Hours - Telco Room - MDF/IDF/MPOE- 10' of 12" ladder rack and support hardware	THHR0023	Provide and install 10' of 12" ladder rack and support hardware. Only to be sold in conjunction with the provisioning of dedicated services specifically listed in this Category.
27	Regular Hours - Telco Room - MDF/IDF/MPOE- Communication pole 10 feet	THHR0024	Provide and install Communication pole 10 feet.
28	Regular Hours - Telco Room - MDF/IDF/MPOE- One (1) 20 Amp Duplex Outlet within 75' of Existing Panel	THHR0025	Provide and install One (1) 20 Amp Duplex Outlet within 75' of Existing Panel.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
29	Regular Hours - Backbone Cabling Placing and Consumables - 6-strand MM ISP fiber	BCCB0001	Provide and install 6-strand MM ISP fiber. 50 μ or 62.5 μ fiber plenum. Pull line in place (does not include pathway, termination hardware, terminating or testing).
30	Regular Hours - Backbone Cabling Placing and Consumables - 6-strand SM ISP fiber	BCCB0002	Provide and install 6-strand SM ISP fiber. 8.3 μ fiber plenum Pull line in place (does not include pathway, termination hardware, terminating or testing).
31	Regular Hours - Backbone Cabling Placing and Consumables - 12-strand MM ISP fiber	BCCB0003	Provide and install 12-strand MM ISP fiber. 50 μ or 62.5 μ fiber plenum Pull line in place (does not include pathway, termination hardware, terminating or testing).
32	Regular Hours - Backbone Cabling Placing and Consumables - 12-strand SM ISP Fiber	BCCB0004	Provide and install 12-strand SM ISP fiber. 8.3 μ fiber plenum. Pull line in place (does not include pathway, termination hardware, terminating or testing).
33	Regular Hours - Backbone Cabling Placing and Consumables - 6-strand MM Indoor/Outdoor Fiber	BCCB0005	Provide and install 6-strand MM Indoor/Outdoor fiber. Pull line in place (does not include pathway, termination hardware, terminating or testing).
34	Regular Hours - Backbone Cabling Placing and Consumables - 6-strand SM Indoor/Outdoor Fiber	BCCB0006	Provide and install 6-strand SM Indoor/Outdoor fiber. Pull line in place (does not include pathway, termination hardware, terminating or testing).
35	Regular Hours - Backbone Cabling Placing and Consumables - 12-strand MM Indoor/Outdoor Fiber	BCCB0007	Provide and install 12-strand MM Indoor/Outdoor fiber. Pull line in place (does not include pathway, termination hardware, terminating or testing).

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
36	Regular Hours - Backbone Cabling Placing and Consumables - 12-strand SM Indoor/Outdoor Fiber	BCCB0008	Provide and install 12-strand SM Indoor/Outdoor fiber. Pull line in place (does not include pathway, termination hardware, terminating or testing).
37	Regular Hours - Backbone Cabling Placing and Consumables - 6-strand SM OSP Loose Tube underground fiber	BCCB0009	Provide and install 6-strand SM OSP Loose Tube underground fiber. Pull line in place (does not include pathway, termination hardware, terminating or testing).
38	Regular Hours - Backbone Cabling Placing and Consumables - 12-strand SM OSP Loose Tube underground fiber	BCCB0010	Provide and install 12-strand SM OSP Loose Tube underground fiber. Pull line in place (does not include pathway, termination hardware, terminating or testing).
39	Regular Hours - Backbone Cabling Placing and Consumables - 24-strand SM OSP Loose Tube underground fiber	BCCB0011	Provide and install 24-strand SM OSP Loose Tube underground fiber. Pull line in place (does not include pathway, termination hardware, terminating or testing).
40	Regular Hours - Backbone Cabling Placing and Consumables - 48-strand SM OSP Loose Tube underground fiber	BCCB0012	Provide and install 48-strand SM OSP Loose Tube underground fiber. Pull line in place (does not include pathway, termination hardware, terminating or testing).
41	Regular Hours - Backbone Cabling Placing and Consumables - 24-strand SM Indoor/Outdoor Fiber	BCCB0013	Provide and install 24-strand SM Indoor/Outdoor fiber. Pull line in place (does not include pathway, termination hardware, terminating or testing).

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
42	Regular Hours - Backbone Cabling Placing and Consumables - 48-strand SM Indoor/Outdoor fiber	BCCB0014	Provide and install 48-strand SM Indoor/Outdoor fiber. Pull line in place (does not include pathway, termination hardware, terminating or testing).
43	Regular Hours - Backbone Cabling Placing and Consumables - 6-strand Fanout Kit SingleMode	BCCB0015	Provide and install 6-strand Fanout Kit SingleMode
44	Regular Hours - Backbone Cabling Placing and Consumables - 6-strand Fanout Kit MultiMode	BCCB0016	Provide and install 6-strand Fanout Kit MultiMode
45	Regular Hours - Backbone Cabling Placing and Consumables - 12-strand Fanout Kit SingleMode	BCCB0017	Provide and install 12-strand Fanout Kit SingleMode
46	Regular Hours - Backbone Cabling Placing and Consumables - 12-strand Fanout Kit MultiMode	BCCB0018	Provide and install 12-strand Fanout Kit MultiMode
47	Regular Hours - Backbone Cabling Placing and Consumables - 1" innerduct underground in existing duct	BCCB0019	Provide and install 1" innerduct underground in existing duct. Override situations will be accessed by contractor for viability. Pull line in place (does not include pathway, termination hardware, terminating or testing).

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
48	Regular Hours - Backbone Cabling Placing and Consumables - 1 1/4" innerduct underground in existing duct	BCCB0020	Provide and install 1 1/4" innerduct underground in existing duct. Override situations will be accessed by contractor for viability. Pull line in place (does not include pathway, termination hardware, terminating or testing).
49	Regular Hours - Backbone Cabling Placing and Consumables - 25-pair copper ISP	BCCB0021	Provide and install 25-pair copper ISP. Plenum. Pull line in place (does not include pathway, termination hardware, terminating or testing).
50	Regular Hours - Backbone Cabling Placing and Consumables - 25-pair copper underground OSP	BCCB0022	Provide and install 25-pair copper underground OSP. Pull line in place (does not include pathway, termination hardware, terminating or testing).
51	Regular Hours - Backbone Cabling Placing and Consumables - 50-pair copper ISP	BCCB0023	Provide and install 50-pair copper ISP. Plenum. .Pull line in place (does not include pathway, termination hardware, terminating or testing)
52	Regular Hours - Backbone Cabling Placing and Consumables - 50-pair copper underground OSP	BCCB0024	Provide and install 50-pair copper underground OSP. Pull line in place (does not include pathway, termination hardware, terminating or testing).
53	Regular Hours - Backbone Cabling Placing and Consumables - 100-pair copper ISP	BCCB0025	Provide and install 100-pair copper ISP. Plenum. Pull line in place (does not include pathway, termination hardware, terminating or testing).

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
54	Regular Hours - Backbone Cabling Placing and Consumables - 100-pair copper underground OSP	BCCB0026	Provide and install 100-pair copper underground OSP. Pull line in place (does not include pathway, termination hardware, terminating or testing)
55	Regular Hours - Backbone and Circuit Extension Cable Placing and Consumables - 300' Cat 6 copper ISP circuit extension	BCCE0001	Provide and install up to 300' Cat 6 copper ISP circuit extension. Plenum. Pull line in place (does not include pathway, termination hardware, terminating or testing).
56	Regular Hours - Backbone and Circuit Extension Cable Placing and Consumables - 300' Cat 6 copper OSP circuit extension	BCCE0002	Provide and install up to 300' Cat 6 copper OSP circuit extension Pull line in place (does not include pathway, termination hardware, terminating or testing).
57	Regular Hours - Backbone and Circuit Extension Cable Placing and Consumables - 300' 25-pair copper ISP circuit extension	BCCE0003	Provide and install up to 300' 25-pair copper ISP circuit extension. Plenum. Pull line in place (does not include pathway, termination hardware, terminating or testing).
58	Regular Hours - Backbone and Circuit Extension Cable Placing and Consumables - 300' 25-pair copper OSP circuit extension	BCCE0004	Provide and install up to 300' 25-pair copper OSP circuit extension. Pull line in place (does not include pathway, termination hardware, terminating or testing).
59	Regular Hours - Backbone and Circuit Extension Cable Placing and Consumables - 300' RG58 COAX ISP	BCCE0005	Provide and install up to 300' RG58 COAX ISP. PlenumPull line in place (does not include pathway, termination hardware, terminating or testing).

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
60	Regular Hours - Backbone and Circuit Extension Cable Placing and Consumables - 300' RG62 COAX ISP	BCCE0006	Provide and install up to 300' RG62 COAX ISP. Plenum. Pull line in place (does not include pathway, termination hardware, terminating or testing).
61	Regular Hours - Backbone and Circuit Extension Cable Placing and Consumables - 300' RG6 COAX ISP	BCCE0007	Provide and install up to 300' RG6 COAX ISP. Plenum. Pull line in place (does not include pathway, termination hardware, terminating or testing).
62	Regular Hours - Backbone and Circuit Extension Cable Placing and Consumables - Fiber Splice Cassette 12 Port LC Duplex Part # CCH-CS12-A9-POORE	BCCE0008	Provide and install (1) Fiber Splice Cassette 12 port LC (Lucent Connector) Duplex Part # CCH-CS12-A9-POORE.
63	Regular Hours - Backbone and Circuit Extension Cable Placing and Consumables - Fiber Splice Cassette 24 port LC Duplex Part # CCH-CS24-A9-POORE	BCCE0009	Provide and install (1) Fiber Splice Cassette 24 port LC (Lucent Connector) Duplex Part # CCH-CS24-A9-POORE.
64	Regular Hours - Backbone and Circuit Extension Cable Placing and Consumables - Provide and install 1.5" Riser Rated Inner Duct	BCCE0010	Provide and install 1.5" riser rated inner duct.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
65	Regular Hours - Backbone and Circuit Extension Cable Placing and Consumables - 1 ¼" Plenum Innerduct	BCCE0011	Provide and install 1 ¼" plenum rated inner duct.
66	Regular Hours - Backbone and Circuit Extension Cable Placing and Consumables - 1" Inner Duct Riser Rated	BCCE0012	Provide and install 1" Riser Rated inner duct.
67	Regular Hours - Backbone and Circuit Extension Cable Placing and Consumables - 1" Inner Duct Plenum Rated	BCCE0013	Provide and install 1" Plenum rated inner duct.
68	Regular Hours - Backbone and Circuit Extension Cable Placing and Consumables - 2" Inner Duct Riser Rated	BCCE0014	Provide and install 2" Riser Rated inner duct.
69	Regular Hours - Backbone and Circuit Extension Cable Placing and Consumables - 2" Inner Duct Plenum Rated	BCCE0015	Provide and install 2" Plenum Rated inner duct.
70	Regular Hours - Backbone and Circuit Extension Cable Placing and Consumables - 2" Inner Duct OSP Rated	BCCE0016	Provide and install 2" OSP (Outside Plant) rated inner duct.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
71	Regular Hours - Backbone and Circuit Extension Cable Placing and Consumables - SM OSP Loose Tube OS2 6-strand Gel-Free Freedom Underground	BCCE0018	Provide and install SM (singlemode) OSP (outside plant) Loose Tube OS2 6-strand Gel-Free Freedom Underground cable.
72	Regular Hours - Backbone and Circuit Extension Cable Placing and Consumables - Provide and install 6- strand armored MM Fiber OM3 Freedom Underground Riser Rated	BCCE0019	Provide and install 6-strand armored MM (Multimode) Fiber OM3 Freedom Underground Riser Rated Cable.
73	Regular Hours - Backbone and Circuit Extension Cable Placing and Consumables - Provide and install 6- strand armored SM Fiber underground Freedom one riser Rated	BCCE0020	Provide and install 6-strand armored SM (single mode) Fiber underground Freedom one riser rated cable.
74	Regular Hours - Backbone and Circuit Extension Cable Placing and Consumables - Provide and install 12- strand armored MM OM3 Freedom underground riser rated	BCCE0021	Provide and install 12-strand armored MM (multimode) OM3 Freedom underground riser rated cable.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
75	Regular Hours - Backbone and Circuit Extension Cable Placing and Consumables - Provide and install 12- strand armored SM Fiber underground Freedom One Riser	BCCE0022	Provide and install 12-strand armored SM (singlemode) fiber underground Freedom One riser cable.
76	Regular Hours - Backbone and Circuit Extension Cable Placing and Consumables - Provide and install 24- strand armored MM Fiber OM3 Freedom Underground Riser Rated	BCCE0023	Provide and install 24-strand armored MM (Multimode) Fiber OM3 Freedom Underground Riser Rated cable.
77	Regular Hours - Backbone and Circuit Extension Cable Placing and Consumables - Provide and install 24- strand armored SM fiber underground Freedom One Riser	BCCE0024	Provide and install 24-strand armored SM (single-mode) fiber underground Freedom One riser cable.
78	Regular Hours - Backbone and Circuit Extension Cable Placing and Consumables - Provide and install 48- strand armored MM Fiber underground Freedom one Riser	BCCE0025	Provide and install 48-strand armored MM (multimode) Fiber underground Freedom one Riser cable.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
79	Regular Hours - Backbone and Circuit Extension Cable Placing and Consumables - Provide and install 48- strand armored SM Fiber underground Freedom One Riser	BCCE0026	Provide and install 48-strand armored SM (singlemode) Fiber underground Freedom One Riser cable.
80	Regular Hours - Backbone and Circuit Extension Cable Placing and Consumables - Provide and install 12- strand MM underground OSP	BCCE0027	Provide and install 12-pair copper underground OSP (outside plant).
81	Regular Hours - Backbone and Circuit Extension Cable Placing and Consumables - Mule Tape (Material Only)	BCCE0028	Mule Tape – material only, no labor/no installation.
82	Regular Hours - Backbone and Circuit Extension - Termination Hardware - 25-pair protector	BCCT0001	Provide and install 25-pair protector. Gas modules or match existing. Terminating and testing not included.
83	Regular Hours - Backbone and Circuit Extension - Termination Hardware - 50-pair protector	BCCT0002	Provide and install 50-pair protector. Gas modules or match existing. Terminating and testing not included.
84	Regular Hours - Backbone and Circuit Extension - Termination Hardware - 100-pair protector	BCCT0003	Provide and install 100-pair protector. Gas modules or match existing.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
			Terminating and testing not included.
85	Regular Hours - Backbone and Circuit Extension - Termination Hardware - 4-pair protector	BCCT0004	Provide and install 4-pair protector. Gas modules or match existing. Terminating and testing not included.
86	Regular Hours - Backbone and Circuit Extension - Termination Hardware - Protector modules	BCCT0005	Provide and install protector modules. Gas modules or match existing. Terminating and testing not included.
87	Regular Hours - Backbone and Circuit Extension - Termination Hardware - BIX mount 250-pair	BCCT0006	Provide and install BIX mount 250- pair. Terminating and testing not included.
88	Regular Hours - Backbone and Circuit Extension - Termination Hardware - BIX connector	BCCT0007	Provide and install BIX connector. Terminating and testing not included.
89	Regular Hours - Backbone and Circuit Extension - Termination Hardware - BIX ring	BCCT0008	Provide and install BIX ring. Terminating and testing not included.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
90	Regular Hours - Backbone and Circuit Extension - Termination Hardware - 66-type Block 50 pair	BCCT0009	Provide and install 66-type Block 50 pair. Terminating and testing not included.
91	Regular Hours - Backbone and Circuit Extension - Termination Hardware - 110-style block 100 pair kit	BCCT0010	Provide and install 110-style block 100 pair kit. Includes C4 or C5 clips. Terminating and testing not included.
92	Regular Hours - Backbone and Circuit Extension - Termination Hardware - Rack Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber	BCCT0011	Provide and install Rack Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber. Cabinet only. Panels purchased separately Terminating and testing not included.
93	Regular Hours - Backbone and Circuit Extension - Termination Hardware - Rack Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber	BCCT0012	Provide and install Rack Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber. Cabinet only. Panels purchased separately Terminating and testing not included.
94	Regular Hours - Backbone and Circuit Extension - Termination Hardware - Wall Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber	BCCT0013	Provide and install Wall Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber. Cabinet only. Panels purchased separately. Terminating and testing not included.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
95	Regular Hours - Backbone and Circuit Extension - Termination Hardware - Wall Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber	BCCT0014	Provide and install Wall Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber. Cabinet only. Panels purchased separately. Terminating and testing not included.
96	Regular Hours - Backbone and Circuit Extension - Termination Hardware - 6-strand connector panel MM 50/125 SC	BCCT0015	Provide and Install 6-strand connector panel MM 50/125 SC. Complete with couplers Terminating and testing not included.
97	Regular Hours - Backbone and Circuit Extension - Termination Hardware - 6-strand connector panel MM 50/125 LC	BCCT0016	Provide and install 6-strand connector panel MM 50/125 LC. Complete with couplers Terminating and testing not included.
98	Regular Hours - Backbone and Circuit Extension - Termination Hardware - 6-strand connector panel MM 62.5/125 SC	BCCT0017	Provide and install 6-strand connector panel MM 62.5/125 SC. Complete with couplers Terminating and testing not included.
99	Regular Hours - Backbone and Circuit Extension - Termination Hardware - 6-strand connector panel MM 62.5/125 LC	BCCT0018	Provide and install 6-strand connector panel MM 62.5/125 LC. Complete with couplers Terminating and testing not included.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
100	Regular Hours - Backbone and Circuit Extension - Termination Hardware - 12-strand connector panel MM 50/125 SC	BCCT0019	Provide and install 12-strand connector panel MM 50/125 SC. Complete with couplers. Terminating and testing not included.
101	Regular Hours - Backbone and Circuit Extension - Termination Hardware - 12-strand connector panel MM 50/125 LC	BCCT0020	Provide and install 12-strand connector panel MM 50/125 LC. Complete with couplers. Terminating and testing not included.
102	Regular Hours - Backbone and Circuit Extension - Termination Hardware - 12-strand connector panel MM 62.5/125 SC	BCCT0021	Provide and install 12-strand connector panel MM 62.5/125 SC. Complete with couplers. Terminating and testing not included.
103	Regular Hours - Backbone and Circuit Extension - Termination Hardware - 12-strand connector panel MM 62.5/125 LC	BCCT0022	Provide and install 12-strand connector panel MM 62.5/125 LC, Complete with couplers. Terminating and testing not included.
104	Regular Hours - Backbone and Circuit Extension - Termination Hardware - 6-strand connector panel SM SC	BCCT0023	Provide and install 6-strand connector panel SM SC. Complete with couplers. Terminating and testing not included.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
105	Regular Hours - Backbone and Circuit Extension - Termination Hardware - 6-strand connector panel SM LC	BCCT0024	Provide and install 6-strand connector panel SM LC. Complete with couplers. Terminating and testing not included.
106	Regular Hours - Backbone and Circuit Extension - Termination Hardware - 12-strand connector panel SM SC	BCCT0025	Provide and install 12-strand connector panel SM SC. Complete with couplers. Terminating and testing not included.
107	Regular Hours - Backbone and Circuit Extension - Termination Hardware - 12-strand connector panel SM LC	BCCT0026	Provide and install 12-strand connector panel SM LC. Complete with couplers. Terminating and testing not included.
108	Regular Hours - Backbone and Circuit Extension - Termination Hardware - Provide SC Compatible 50µm Multimode connector (material only)	BCCT0027	Provide SC Compatible 50µm Multimode connector (material only) Provide SC Compatible 50µm Multimode connector (material only). Provide SC Compatible 50µm Multimode connector (material only). Must be ordered with Product Identifiers REDW0006 or REDW0007 and REDW0008. Terminating and testing not included.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
109	Regular Hours - Backbone and Circuit Extension - Termination Hardware - Provide SC Compatible 62.5µm Multimode connector (material only)	BCCT0028	Provide SC Compatible 62.5µm Multimode connector (material only). Must be ordered with Product Identifiers REDW0006 or REDW0007 and REDW0008. Terminating and testing not included.
110	Regular Hours - Backbone and Circuit Extension - Termination Hardware - Provide SC Compatible Single Mode connector (material only)	BCCT0029	Provide SC Compatible Single Mode connector (material only). Must be ordered with Product Identifiers REDW0006 or REDW0007 and REDW0008. Terminating and testing not included.
111	Regular Hours - Backbone and Circuit Extension - Termination Hardware - Provide LC Compatible 50µm Multimode connector (material only)	BCCT0030	Provide LC Compatible 50µm Multimode connector (material only). Must be ordered with Product Identifiers REDW0006 or REDW0007 and REDW0008. Terminating and testing not included.
112	Regular Hours - Backbone and Circuit Extension - Termination Hardware - Provide LC Compatible 62.5µm Multimode connector (material only)	BCCT0031	Provide LC Compatible 62.5µm Multimode connector (material only). Must be ordered with Product Identifiers REDW0006 or REDW0007 and REDW0008. Terminating and testing not included.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
113	Regular Hours - Backbone and Circuit Extension - Termination Hardware - Provide LC Compatible Single Mode connector (material only)	BCCT0032	Provide LC Compatible Single Mode connector (material only). Must be ordered with Product Identifiers REDW0006 or REDW0007 and REDW0008. Terminating and testing not included.
114	Regular Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 62.5/125 SC To SC 1 Meter Patch Cable	BCCT0033	Provide and install Multimode 62.5/125 SC To SC 1 Meter Patch Cable. Terminating and testing not included.
115	Regular Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 62.5/125 SC To SC 3 Meter Patch Cable	BCCT0034	Provide and install Multimode 62.5/125 SC To SC 3 Meter Patch Cable. Terminating and testing not included.
116	Regular Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 62.5/125 SC To SC 10 Meter Patch Cable	BCCT0035	Provide and Install Multimode 62.5/125 SC To SC 10 Meter Patch Cable. Terminating and testing not included.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
117	Regular Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 62.5/125 SC To LC 1 Meter Patch Cable	BCCT0036	Provide and install Multimode 62.5/125 SC To LC 1 Meter Patch Cable. Terminating and testing not included.
118	Regular Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 62.5/125 SC To LC 3 Meter Patch Cable	BCCT0037	Provide and install Multimode 62.5/125 SC To LC 3 Meter Patch Cable. Terminating and testing not included.
119	Regular Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 62.5/125 SC To LC 10 Meter Patch Cable	BCCT0038	Provide and install Multimode 62.5/125 SC To LC 10 Meter Patch Cable. Terminating and testing not included.
120	Regular Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 62.5/125 LC To LC 1 Meter Patch Cable	BCCT0039	Provide and install Multimode 62.5/125 LC To LC 1 Meter Patch Cable. Terminating and testing not included.
121	Regular Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 62.5/125 LC To LC 3 Meter Patch Cable	BCCT0040	Provide and install Multimode 62.5/125 LC To LC 3 Meter Patch Cable. Terminating and testing not included.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
122	Regular Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 62.5/125 LC To LC 10 Meter Patch Cable	BCCT0041	Provide and install Multimode 62.5/125 LC To LC 10 Meter Patch Cable. Terminating and testing not included.
123	Regular Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 50/125 SC To SC 1 Meter Patch Cable	BCCT0042	Provide and install Multimode 50/125 SC To SC 1 Meter Patch Cable. Terminating and testing not included.
124	Regular Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 50/125 SC To SC 3 Meter Patch Cable	BCCT0043	Provide and install Multimode 50/125 SC To SC 3 Meter Patch Cable. Terminating and testing not included.
125	Regular Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 50/125 SC To SC 10 Meter Patch Cable	BCCT0044	Provide and install Multimode 50/125 SC To SC 10 Meter Patch Cable. Terminating and testing not included.
126	Regular Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 50/125 SC To LC 1 Meter Patch Cable	BCCT0045	Provide and install Multimode 50/125 SC To LC 1 Meter Patch Cable Terminating and testing not included.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
127	Regular Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 50/125 SC To LC 3 Meter Patch Cable	BCCT0046	Provide and install Multimode 50/125 SC To LC 3 Meter Patch Cable. Terminating and testing not included.
128	Regular Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 50/125 SC To LC 10 Meter Patch Cable	BCCT0047	Provide and install Multimode 50/125 SC To LC 10 Meter Patch Cable. Terminating and testing not included.
129	Regular Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 50/125 LC To LC 1 Meter Patch Cable	BCCT0048	Provide and install Multimode 50/125 LC To LC 1 Meter Patch Cable. Terminating and testing not included.
130	Regular Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 50/125 LC To LC 3 Meter Patch Cable	BCCT0049	Provide and install Multimode 50/125 LC To LC 3 Meter Patch Cable. Terminating and testing not included.
131	Regular Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 50/125 LC To LC 10 Meter Patch Cable	BCCT0050	Provide and install Multimode 50/125 LC To LC 10 Meter Patch Cable. Terminating and testing not included.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
132	Regular Hours - Backbone and Circuit Extension - Termination Hardware - Single Mode 9/125 SC To SC 1 Meter Patch Cable	BCCT0051	Provide and install Single Mode 9/125 SC To SC 1 Meter Patch Cable. Terminating and testing not included.
133	Regular Hours - Backbone and Circuit Extension - Termination Hardware - Single Mode 9/125 SC To SC 3 Meter Patch Cable	BCCT0052	Provide and install Single Mode 9/125 SC To SC 3 Meter Patch Cable. Terminating and testing not included.
134	Regular Hours - Backbone and Circuit Extension - Termination Hardware - Single Mode 9/125 SC To SC 10 Meter Patch Cable	BCCT0053	Provide and install Single Mode 9/125 SC To SC 10 Meter Patch Cable. Terminating and testing not included.
135	Regular Hours - Backbone and Circuit Extension - Termination Hardware - Single Mode 9/125 SC To LC 1 Meter Patch Cable	BCCT0054	Provide and install Single Mode 9/125 SC To LC 1 Meter Patch Cable. Terminating and testing not included.
136	Regular Hours - Backbone and Circuit Extension - Termination Hardware - Single Mode 9/125 SC To LC 3 Meter Patch Cable	BCCT0055	Provide and install Single Mode 9/125 SC To LC 3 Meter Patch Cable. Terminating and testing not included.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
137	Regular Hours - Backbone and Circuit Extension - Termination Hardware - Single Mode 9/125 SC To LC 10 Meter Patch Cable	BCCT0056	Provide and install Single Mode 9/125 SC To LC 10 Meter Patch Cable. Terminating and testing not included.
138	Regular Hours - Backbone and Circuit Extension - Termination Hardware - Single Mode 9/125 LC To LC 1 Meter Patch Cable	BCCT0057	Provide and install Single Mode 9/125 LC To LC 1 Meter Patch Cable. Terminating and testing not included.
139	Regular Hours - Backbone and Circuit Extension - Termination Hardware - Single Mode 9/125 LC To LC 3 Meter Patch Cable	BCCT0058	Provide and install Single Mode 9/125 LC To LC 3 Meter Patch Cable. Terminating and testing not included.
140	Regular Hours - Backbone and Circuit Extension - Termination Hardware - Single Mode 9/125 LC To LC 10 Meter Patch Cable	BCCT0059	Provide and install Single Mode 9/125 LC To LC 10 Meter Patch Cable. Terminating and testing not included.
141	Regular Hours - Backbone and Circuit Extension - Termination Hardware - Provide and install 12 pair protector	BCCT0060	Provide and install a 12-pair protector.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
142	Regular Hours - Backbone and Circuit Extension Termination and/or Testing - Copper cable termination per pair (25 pair and larger)	BCTT0001	Labor and consumables to terminate and test media. Must be ordered in conjunction with material component in this Section.
143	Regular Hours - Backbone and Circuit Extension Termination and/or Testing - Copper cable splicing per pair (25 pair and larger)	BCTT0002	Labor and consumables to splice and test media. Must be ordered in conjunction with material component in this Section.
144	Regular Hours - Backbone and Circuit Extension Termination and/or Testing - Copper cable testing per pair (25 pair and larger)	BCTT0003	Labor to perform continuity test. Must be ordered in conjunction with material component in this Section.
145	Regular Hours - Backbone and Circuit Extension Termination and/or Testing - Tone, locate, test, tag and document Circuit	BCTT0004	Test and Tone on both sides of a single circuit, copper pair, between termination points. Must be ordered in conjunction with material component in this Section.
146	Regular Hours - Backbone and Circuit Extension Termination and/or Testing - Install Fiber termination connector	BCTT0006	Install Fiber termination connector - Labor only. Must be ordered in conjunction with material component in this Section.
147	Regular Hours - Backbone and Circuit Extension Termination and/or Testing - Splice Fiber per strand	BCTT0007	Splice Fiber per strand. Labor only - SM or MM. Must be ordered in conjunction with material component in this Section.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
148	Regular Hours - Backbone and Circuit Extension Termination and/or Testing - Fiber testing per strand	BCTT0008	OTDR Must be ordered in conjunction with material component in this Section.
149	Regular Hours - Backbone and Circuit Extension Termination and/or Testing - Provide 4-pair CAT5e termination and testing	BCTT0009	Labor only. Includes BICSI standard testing (end to end). Must be ordered in conjunction with material component in this Section.
150	Regular Hours - Backbone and Circuit Extension Termination and/or Testing - Terminate and test 4-pair Cat 6	BCTT0010	Labor only. Includes BICSI standard testing (end to end). Must be ordered in conjunction with material component in this Section.
151	Regular Hours - Backbone and Circuit Extension Termination and/or Testing - Terminate 4-pair Cat 6	BCTT0011	Retermine one end only jack or patch panel. Must be ordered in conjunction with material component in this Section.
152	Regular Hours - Backbone and Circuit Extension Termination and/or Testing - Test 4-pair Cat 6	BCTT0012	Test only Includes BICSI standard testing (end to end). Must be ordered in conjunction with material component in this Section.
153	Regular Hours - Backbone and Circuit Extension Termination and/or Testing - Terminate and test 4-pair Cat 6A	BCTT0013	Labor only. Includes BICSI standard testing (end to end). Must be ordered in conjunction with material component in this Section.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
154	Regular Hours - Backbone and Circuit Extension Termination and/or Testing - Terminate 4-pair Cat 6A	BCTT0014	<p>Reterminate one end only jack or patch panel.</p> <p>Must be ordered in conjunction with material component in this Section.</p>
155	Regular Hours - Backbone and Circuit Extension Termination and/or Testing - Test 4-pair Cat 6A	BCTT0015	<p>Test only Includes BICSI standard testing (end to end).</p> <p>Must be ordered in conjunction with material component in this Section.</p>
156	Regular Hours - Station Cabling, Cable Placement and Consumables Only - pull line in place - Single 4-pair Cat 6 PVC cable for voice or data application	RSNC0001	<p>Provide and Install single 4-pair Cat 6 PVC cable for voice or data application.</p> <p>Does not include pathway or termination hardware.</p>
157	Regular Hours - Station Cabling, Cable Placement and Consumables Only - pull line in place - Single 4-pair Cat 6 plenum cable for voice or data application	RSNC0002	<p>Provide and Install single 4-pair Cat 6 plenum cable for voice or data application.</p> <p>Does not include pathway or termination hardware.</p>
158	Regular Hours - Station Cabling, Cable Placement and Consumables Only - pull line in place - Single 4-pair Cat 6 OSP cable for voice or data application	RSNC0003	<p>Provide and Install single 4-pair Cat 6 OSP cable for voice or data application.</p> <p>Does not include pathway or termination hardware.</p>

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
159	Regular Hours - Station Cabling, Cable Placement and Consumables Only - pull line in place - Single 4-pair Cat 6A PVC cable for voice or data application	RSNC0004	Provide and Install single 4-pair Cat 6A PVC cable for voice or data application. Does not include pathway or termination hardware.
160	Regular Hours - Station Cabling, Cable Placement and Consumables Only - pull line in place - Single 4-pair Cat 6A plenum cable for voice or data application	RSNC0005	Provide and Install single 4-pair Cat 6A plenum cable for voice or data application. Does not include pathway or termination hardware.
161	Regular Hours - Station Cabling, Cable Placement and Consumables Only - pull line in place - Single 4-pair Cat 6A OSP cable for voice or data application	RSNC0006	Provide and Install single 4-pair Cat 6A OSP cable for voice or data application. Does not include pathway or termination hardware.
162	Regular Hours - Station Cabling, Cable Placement and Consumables Only - pull line in place - CAT5e OSP Shielded Cable Underground	RSNC0007	Provide and install CAT5e OSP (outside plant) shielded underground cable.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
163	Regular Hours - Station Cabling, Cable Placement and Consumables Only - pull line in place - CAT6 OSP shielded cable underground	RSNC0008	Provide and install CAT6 OSP (outside plant) shielded underground cable.
164	Regular Hours - Station Cabling, Cable Placement and Consumables Only - pull line in place - CAT6 U/UTP Filled Cable, Outdoor Direct Burial, Black Jacket Outdoor Voice/Data underground	RSNC0009	Provide and install CAT6 U/UTP (unshielded twisted pair) filled cable, black jacket, outdoor voice/data underground cable.
165	Regular Hours - Station Cabling, Cable Placement and Consumables Only - pull line in place - Armored CAT6 Cable underground	RSRA0000	Provide and install one Armored CAT6 Cable underground.
166	Regular Hours - Station Cabling, Cable Placement and Consumables Only - pull line in place - Armored CAT6A Cable underground	RSAA0000	Provide and install one Armored CAT6A Cable underground.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
167	Regular Hours - Station Cabling, Cable Placement and Consumables Only - pull line in place - CAT6e 550 MHz PLENUM FOUR PAIR CABLE	RSRP0000	Provide and install one CAT6e 550 MHz PLENUM FOUR PAIR CABLE.
168	Regular Hours - Additional Components (Material and Labor to install) - One 24-port unloaded Cat 5E/6/6A Patch Panel	MLCR0001	Provide and install one 24-port unloaded Cat 6A Patch Panel.
169	Regular Hours - Additional Components (Material and Labor to install) - One 48-port unloaded Cat 5E/6/6A Patch Panel	MLCR0002	Provide and install one 48-port unloaded Cat 6A Patch Panel.
170	Regular Hours - Additional Components (Material and Labor to install) - New 24-port Cat 6 patch panel	MLCR0003	Provide and install new 24-port Cat 6 patch panel.
171	Regular Hours - Additional Components (Material and Labor to install) - New 48-port Cat 6 patch panel	MLCR0004	Provide and install new 48-port Cat 6 patch panel.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
172	Regular Hours - Additional Components (Material and Labor to install) - New 24-port Cat 6A patch panel	MLCR0005	Provide and install new 24-port Cat 6A patch panel.
173	Regular Hours - Additional Components (Material and Labor to install) - New 48-port Cat 6A patch panel	MLCR0006	Provide and install new 48-port Cat 6A patch panel.
174	Regular Hours - Additional Components (Material and Labor to install) - New 12-port Cat 6 patch panel	MLCR0007	Provide and install new 12-port Cat 6 patch panel.
175	Regular Hours - Additional Components (Material and Labor to install) - Face plate plastic	MLCR0008	Provide and install face plate plastic.
176	Regular Hours - Additional Components (Material and Labor to install) - Modular furniture device plate	MLCR0009	Provide and install modular furniture device plate.
177	Regular Hours - Additional Components (Material and Labor to install) - 4-port stainless steel faceplate	MLCR0010	Provide and install 4-port stainless steel faceplate.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
178	Regular Hours - Additional Components (Material and Labor to install) - 6-port stainless steel faceplate	MLCR0011	Provide and install 6-port stainless steel faceplate.
179	Regular Hours - Additional Components (Material and Labor to install) - Cat 6 jack insert	MLCR0012	Provide and install Cat 6 jack insert.
180	Regular Hours - Additional Components (Material and Labor to install) - Cat 6A jack insert	MLCR0013	Provide and install Cat 6A jack insert.
181	Regular Hours - Additional Components (Material and Labor to install) - 3' Cat 5e patch cord	MLCR0014	Provide and install 3' Cat 5e patch cord.
182	Regular Hours - Additional Components (Material and Labor to install) - 5' Cat 5e patch cord	MLCR0015	Provide and install 5' Cat 5e patch cord.
183	Regular Hours - Additional Components (Material and Labor to install) - 7' Cat 5e patch cord	MLCR0016	Provide and install 7' Cat 5e patch cord.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
184	Regular Hours - Additional Components (Material and Labor to install) - 10' Cat 5e patch cord	MLCR0017	Provide and install 10' Cat 5e patch cord.
185	Regular Hours - Additional Components (Material and Labor to install) - 3' Cat 6 patch cord	MLCR0018	Provide and install 3' Cat 6 patch cord.
186	Regular Hours - Additional Components (Material and Labor to install) - 5' Cat 6 patch cord	MLCR0019	Provide and install 5' Cat 6 patch cord.
187	Regular Hours - Additional Components (Material and Labor to install) - 7' Cat 6 patch cord	MLCR0020	Provide and install 7' Cat 6 patch cord.
188	Regular Hours - Additional Components (Material and Labor to install) - 10' Cat 6 patch cord	MLCR0021	Provide and install 10' Cat 6 patch cord.
189	Regular Hours - Additional Components (Material and Labor to install) - 15' Cat 6 patch cord	MLCR0022	Provide and install 15' Cat 6 patch cord.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
190	Regular Hours - Additional Components (Material and Labor to install) - 25' Cat 6 patch cord	MLCR0023	Provide and install 25' Cat 6 patch cord.
191	Regular Hours - Additional Components (Material and Labor to install) - Velcro Ties (roll 25 yards)	MLCR0024	Provide and install Velcro Ties (roll 25 yards).
192	Regular Hours - Additional Components (Material and Labor to install) - Fiber splice closure	MLCR0025	Provide and install Fiber splice closure. OSP rated.
193	Regular Hours - Additional Components (Material and Labor to install) - Fiber splice tray	MLCR0026	Provide and install Fiber splice tray.
194	Regular Hours - Additional Components (Material and Labor to install) - Copper splice case 4.0x25	MLCR0027	Provide and install Copper splice case 4.0x25. OSP rated.
195	Regular Hours - Additional Components (Material and Labor to install) - Copper splice case 6.5x28	MLCR0028	Provide and install Copper splice case 6.5x28. OSP rate.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
196	Regular Hours - Additional Components (Material and Labor to install) - Provide Copper splice module 25 pair (material only)	MLCR0029	Provide Copper splice module 25 pair (material only).
197	Regular Hours - Additional Components (Material and Labor to install) - 1' CAT 6 Patch Cord	MLCR0032	Provide and install a 1' CAT6 patch cord.
198	Regular Hours - Additional Components (Material and Labor to install) - 20' CAT6 patch cord	MLCR0033	Provide and install a 20' CAT6 patch cord.
199	Regular Hours - Additional Components (Material and Labor to install) - 1' CAT6A patch cord	MLCR0034	Provide and install a 1' CAT6A patch cord.
200	Regular Hours - Additional Components (Material and Labor to install) - 3' CAT6A Patch Cord	MLCR0035	Provide and install a 3' CAT6A patch cord.
201	Regular Hours - Additional Components (Material and Labor to install) - 5' CAT6A Patch Cord	MLCR0036	Provide and install a 5' CAT6A patch cord.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
202	Regular Hours - Additional Components (Material and Labor to install) - 10' CAT6A Patch Cord	MLCR0038	Provide and install a 10' CAT6A patch cord.
203	Regular Hours - Additional Components (Material and Labor to install) - 15' CAT6A Patch Cord	MLCR0039	Provide and install a 15' CAT6A patch cord.
204	Regular Hours - Additional Components (Material and Labor to install) - 20' CAT6A Patch Cord	MLCR0040	Provide and install a 20' CAT6A patch cord.
205	Regular Hours - Additional Components (Material and Labor to install) - 25' CAT6A Patch Cord	MLCR0041	Provide and install a 25' CAT6A patch cord.
206	Regular Hours - Additional Components (Material and Labor to install) - 2 port surface mount box	MLCR0043	Provide and install (1) 2-port surface mount box.
207	Regular Hours - Pathway - Rod & rope conduit	DWPA0001	Pull string or rope provided, rope will be sized appropriately to conduit size.
208	Regular Hours - Pathway - Rod, rope and place up to three (3) 1" innerducts in same conduit	DWPA0002	Provide rod, rope and place up to three (3) 1" innerducts in the same conduit.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
209	Regular Hours - Pathway - One stick (10') of 1" EMT & three (3) 2-hole straps	DWPA0003	Provide and install one stick (10') of 1" EMT & three (3) 2-hole straps.
210	Regular Hours - Pathway - One stick (10') of 1 1/4" EMT & three (3) 2-hole straps	DWPA0004	Provide and install one stick (10') of 1 1/4" EMT & three (3) 2-hole straps.
211	Regular Hours - Pathway - One stick (10') of 2" EMT & three (3) 2-hole straps	DWPA0005	Provide and install one stick (10') of 2" EMT & three (3) 2-hole straps.
212	Regular Hours - Pathway - One stick (10') of 1" Rigid & three (3) 2-hole straps	DWPA0006	Provide and install one stick (10') of 1" Rigid & three (3) 2-hole straps.
213	Regular Hours - Pathway - One stick (10') of 1 1/4" Rigid & three (3) 2-hole straps	DWPA0007	Provide and install one stick (10') of 1 1/4" Rigid & three (3) 2-hole straps.
214	Regular Hours - Pathway - One stick (10') of 2" Rigid & three (3) 2-hole straps	DWPA0008	Provide and install one stick (10') of 2" Rigid & three (3) 2-hole straps.
215	Regular Hours - Pathway - One stick (10') of 3" EMT & three (3) 2-hole straps	DWPA0009	Provide and install one stick (10') of 3" EMT & three (3) 2-hole straps.
216	Regular Hours - Pathway - One stick (10') of 4" EMT & three (3) 2-hole straps	DWPA0010	Provide and install one stick (10') of 4" EMT & three (3) 2-hole straps.
217	Regular Hours - Pathway - One Stick (10') of 2" SCH 80 PVC	DWPA0011	Provide and install one stick (10') of 2" SCH 80 PVC & three (3) 2-hole straps.
218	Regular Hours - Pathway - One Stick (10') of 4" SCH 80 PVC	DWPA0012	Provide and install one stick (10') of 4" SCH 80 PVC & three (3) 2-hole straps.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
219	Regular Hours - Pathway - One 1" EMT Stub up from device box to above ceiling including straps, connector and bushing	DWPA0013	Provide and install one 1" EMT Stub up from device box to above ceiling including straps, connector and bushing.
220	Regular Hours - Pathway - Surface mount box	DWPA0014	Provide and install Surface mount box.
221	Regular Hours - Pathway - 1" 2-hole strap, EMT	DWPA0015	Provide and install 1" 2-hole strap, EMT.
222	Regular Hours - Pathway - 1" bushing, EMT	DWPA0016	Provide and install 1" bushing, EMT.
223	Regular Hours - Pathway - 1" compression connector, EMT	DWPA0017	Provide and install 1" compression connector, EMT.
224	Regular Hours - Pathway - 1" compression coupler, EMT	DWPA0018	Provide and install 1" compression coupler, EMT.
225	Regular Hours - Pathway - 1" Chase Nipple	DWPA0019	Provide and install 1" Chase Nipple.
226	Regular Hours - Pathway - 1" Unistrut clamp, EMT	DWPA0020	Provide and install 1" Unistrut clamp, EMT.
227	Regular Hours - Pathway - 2" 2-hole strap, EMT	DWPA0021	Provide and install 2" 2-hole strap, EMT.
228	Regular Hours - Pathway - 2" bushing, EMT	DWPA0022	Provide and install 2" bushing, EMT.
229	Regular Hours - Pathway - 2" compression connector, EMT	DWPA0023	Provide and install 2" compression connector, EMT.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
230	Regular Hours - Pathway - 2" compression coupler, EMT	DWPA0024	Provide and install 2" compression coupler, EMT.
231	Regular Hours - Pathway - 2" Chase Nipple	DWPA0025	Provide and install 2" Chase Nipple.
232	Regular Hours - Pathway - 2" Unistrut clamp, EMT	DWPA0026	Provide and install 2" Unistrut clamp, EMT.
233	Regular Hours - Pathway - 3" 2-hole strap, EMT	DWPA0027	Provide and install 3" 2-hole strap, EMT.
234	Regular Hours - Pathway - 3" bushing, EMT	DWPA0028	Provide and install 3" bushing, EMT.
235	Regular Hours - Pathway - Provide and install 3" compression connector, EMT	DWPA0029	Provide and install 3" compression connector, EMT.
236	Regular Hours - Pathway - 3" compression coupler, EMT	DWPA0030	Provide and install 3" compression coupler, EMT.
237	Regular Hours - Pathway - 3" Unistrut clamp, EMT	DWPA0031	Provide and install 3" Unistrut clamp, EMT.
238	Regular Hours - Pathway - 4" 2-hole strap, EMT	DWPA0032	Provide and install 4" 2-hole strap, EMT.
239	Regular Hours - Pathway - 4" bushing, EMT	DWPA0033	Provide and install 4" bushing, EMT.
240	Regular Hours - Pathway - 4" compression connector, EMT	DWPA0034	Provide and install 4" compression connector, EMT.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
241	Regular Hours - Pathway - 4" compression coupler, EMT	DWPA0035	Provide and install 4" compression coupler, EMT.
242	Regular Hours - Pathway - 4" Unistrut clamp, EMT	DWPA0036	Provide and install 4" Unistrut clamp, EMT.
243	Regular Hours - Pathway - 4" Chase Nipple	DWPA0037	Provide and install 4" Chase Nipple.
244	Regular Hours - Pathway - 1" 2-hole strap, Rigid	DWPA0038	Provide and install 1" 2-hole strap, Rigid.
245	Regular Hours - Pathway - 1" bushing, Rigid	DWPA0039	Provide and install 1" bushing, Rigid.
246	Regular Hours - Pathway - 1" compression connector, Rigid	DWPA0040	Provide and install 1" compression connector, Rigid.
247	Regular Hours - Pathway - 1" compression coupler, Rigid	DWPA0041	Provide and install 1" compression coupler, Rigid.
248	Regular Hours - Pathway - 1" Unistrut clamp, Rigid	DWPA0042	Provide and install 1" Unistrut clamp, Rigid.
249	Regular Hours - Pathway - 2" 2-hole strap, Rigid	DWPA0043	Provide and install 2" 2-hole strap, Rigid.
250	Regular Hours - Pathway - 2" bushing, Rigid	DWPA0044	Provide and install 2" bushing, Rigid.
251	Regular Hours - Pathway - 2" compression connector, Rigid	DWPA0045	Provide and install 2" compression connector, Rigid.
252	Regular Hours - Pathway - 2" compression coupler, Rigid	DWPA0046	Provide and install 2" compression coupler, Rigid.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
253	Regular Hours - Pathway - 2" Unistrut clamp, Rigid	DWPA0047	Provide and install 2" Unistrut clamp, Rigid.
254	Regular Hours - Pathway - 2" threaded connector, PVC	DWPA0048	Provide and install 2" threaded connector, PVC.
255	Regular Hours - Pathway - 2" coupler, PVC	DWPA0049	Provide and install 2" coupler, PVC.
256	Regular Hours - Pathway - 4" threaded connector, PVC	DWPA0050	Provide and install 4" threaded connector, PVC.
257	Regular Hours - Pathway - 4" coupler, PVC	DWPA0051	Provide and install 4" coupler, PVC.
258	Regular Hours - Pathway - 2" J-Hook w/multipurpose clip	DWPA0052	Provide and install 2" J-Hook w/multipurpose clip.
259	Regular Hours - Pathway - 1" J-Hook w/multipurpose clip	DWPA0053	Provide and install 1" J-Hook w/multipurpose clip.
260	Regular Hours - Pathway - 3" J-Hook w/multipurpose clip	DWPA0054	Provide and install 3" J-Hook w/multipurpose clip.
261	Regular Hours - Pathway - Pencil Rod (for J-Hook mounting)	DWPA0055	Provide and install Pencil Rod (for J-Hook mounting).
262	Regular Hours - Pathway - Stringer wire (for j-hook mounting)	DWPA0056	Provide and install Stringer wire (for j-hook mounting).
263	Regular Hours - Pathway - Bell box (raco 5387-0)	DWPA0057	Provide and install Bell box (raco 5387-0).
264	Regular Hours - Pathway - 8"x8"x6" pull box NEMA 1	DWPA0058	Provide and install 8"x8"x6" pull box NEMA 1.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
265	Regular Hours - Pathway - 12"x12"x8" NEMA 1 junction box NEMA 1	DWPA0059	Provide and install 12"x12"x8" NEMA 1 junction box NEMA 1.
266	Regular Hours - Pathway - 12"x12"x8" NEMA 1 junction box NEMA 3	DWPA0060	Provide and install 12"x12"x8" NEMA 1 junction box NEMA 3.
267	Regular Hours - Pathway - 18"x18"x8" NEMA 3 junction box	DWPA0061	Provide and install 18"x18"x8" NEMA 3 junction box.
268	Regular Hours - Pathway - Install customer provided WAP (Wireless Access Point); (does not include configuration)	DWPA0063	Install customer provided WAP (Wireless Access Point); (does not include configuration). Must be ordered in conjunction with material component in this Section.
269	Regular Hours - Pathway - WAP (Wireless Access Point) Enclosure	DWPA0064	Provide and install WAP (Wireless Access Point) Enclosure.
270	Regular Hours - Pathway - Install customer provided Camera (does not include configuration)	DWPA0065	Install customer provided Camera (does not include configuration). Must be ordered in conjunction with material component in this Section.
271	Regular Hours - Pathway - Install customer provided paging speaker Drop Tile Ceiling	DWPA0066	Install customer provided paging speaker Drop Tile Ceiling. Includes installation hardware; speaker is not included. Must be ordered in conjunction with material component in this Section.
272	Regular Hours - Pathway - Unistrut slotted 7/8"	DWPA0067	Provide and install Unistrut slotted 7/8". Includes installation hardware; speaker is not included.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
273	Regular Hours - Pathway - 1" Unistrut straps	DWPA0068	Provide and install 1" Unistrut straps.
274	Regular Hours - Pathway - 2" Unistrut straps	DWPA0069	Provide and install 2" Unistrut straps.
275	Regular Hours - Pathway - 1" EMT sleeve (core or penetration not included)	DWPA0070	Provide and install 1" EMT sleeve (core or penetration not included).
276	Regular Hours - Pathway - 2" EMT sleeve (core or penetration not included)	DWPA0071	Provide and install 2" EMT sleeve (core or penetration not included).
277	Regular Hours - Pathway - 3" EMT sleeve (core or penetration not included)	DWPA0072	Provide and install 3" EMT sleeve (core or penetration not included).
278	Regular Hours - Pathway - 4" EMT sleeve (core or penetration not included)	DWPA0073	Provide and install 4" EMT sleeve (core or penetration not included).
279	Regular Hours - Pathway - 8"x8"x6" pull box NEMA R3	DWPA0074	Provide and install 8"x8"x6" pull box NEMA R3.
280	Regular Hours - Pathway - 3/8" THREADED ROD	DWPE0003	Provide and install 3/8" THREADED ROD.
281	Regular Hours - Pathway - PROVIDE AND INSTALL ONE STICK (10') OF 1 1/2" EMT INCLUDE THREE (3) 2-HOLE STRAPS.	DWPE0004	Provide and install PROVIDE AND INSTALL ONE STICK (10') OF 1 1/2" EMT INCLUDE THREE (3) 2-HOLE STRAPS.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
282	Regular Hours - Pathway - 1 1/2" COMPRESSION CONNECTOR, EMT	DWPE0005	Provide and install 1 1/2" COMPRESSION CONNECTOR, EMT.
283	Regular Hours - Pathway - 1 1/2" COMPRESSION COUPLER, EMT	DWPE0006	Provide and install 1 1/2" COMPRESSION COUPLER, EMT.
284	Regular Hours - Pathway - 1 1/2" Bushing EMT	DWPA0075	Provide and install (1) 1 1/2" bushing EMT.
285	Regular Hours - Pathway - 1 1/2" Chase Nipple and Lock Nut	DWPA0076	Provide and install (1) 1 1/2" chase nipple and lock nut.
286	Regular Hours - Pathway - 1 1/4" compression connector, EMT	DWPA0077	Provide and install (1) 1 1/4" EMT compression connector.
287	Regular Hours - Pathway - 1 1/4" compression coupler, EMT	DWPA0078	Provide and install (1) 1 1/4" EMT compression coupler.
288	Regular Hours - Pathway - 1 1/4" Bushing EMT	DWPA0079	Provide and install (1) 1 1/4" EMT bushing.
289	Regular Hours - Pathway - 1 1/4" Chase Nipple and Lock Nut	DWPA0080	Provide and install (1) 1 1/4" chase nipple and lock nut.
290	Regular Hours - Pathway - Provide and install one Stick (10') of 1/2" EMT include three (3) 2- hole straps	DWPA0082	Provide and install one stick (10') of 1/2" EMT include three (3) 2-hole straps.
291	Regular Hours - Pathway - 1/2" Compression Connector, EMT	DWPA0083	Provide and install (1) 1/2" EMT compression connector.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
292	Regular Hours - Pathway - ½" Compression Coupler, EMT	DWPA0084	Provide and install (1) ½" EMT compression coupler.
293	Regular Hours - Pathway - ½" Bushing EMT	DWPA0085	Provide and install (1) ½" EMT bushing.
294	Regular Hours - Pathway - 1/2 " Chase Nipple and Lock Nut	DWPA0086	Provide and install (1) ½" Chase Nipple and Lock Nut.
295	Regular Hours - Pathway - Provide and install one Stick (10') of ¾" EMT Include three (3) 2-hole straps	DWPA0087	Provide and install one (1) stick (10') of ¾" EMT include three (3) 2-hole straps.
296	Regular Hours - Pathway - ¾" Compression Connector, EMT	DWPA0088	Provide and install (1) ¾" EMT compression connector.
297	Regular Hours - Pathway - ¾" Compression Coupler, EMT	DWPA0089	Provide and install (1) ¾" EMT compression coupler.
298	Regular Hours - Pathway - ¾" Bushing EMT	DWPA0090	Provide and install (1) ¾" EMT Bushing.
299	Regular Hours - Pathway - ¾" Chase Nipple and Lock Nut	DWPA0091	Provide and install (1) ¾" Nipple and Lock Nut.
300	Regular Hours - Raceway 5-foot base ivory and cover 2300BAC plastic (2 1/4" x 11/16")	RRCY0001	Provide and install raceway 5-foot base ivory and cover 2300BAC plastic (2 1/4" x 11/16").
301	Regular Hours - Raceway Cover clip 2306	RRCY0002	Provide and install raceway Cover clip 2306.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
302	Regular Hours - Raceway Internal elbow 2317DF0	RRCY0003	Provide and install raceway Internal elbow 2317DF0.
303	Regular Hours - Raceway External bend 2318DF0	RRCY0004	Provide and install raceway External bend 2318DF0.
304	Regular Hours - Raceway Flat elbow 2311DF0	RRCY0005	Provide and install raceway Flat elbow 2311DF0.
305	Regular Hours - Raceway Wire clip ivory 2300WC	RRCY0006	Provide and install raceway Wire clip ivory 2300WC.
306	Regular Hours - Raceway Blank end fitting 2310B	RRCY0007	Provide and install raceway Blank end fitting 2310B.
307	Regular Hours - Raceway Entrance fitting 2310A	RRCY0008	Provide and install raceway Entrance fitting 2310A.
308	Regular Hours - Raceway Tee 2315	RRCY0009	Provide and install raceway Tee 2315.
309	Regular Hours - Raceway - Caulk raceways as required to seal gaps	RRCY0015	Provide and install caulk as required to seal gaps.
310	Regular Hours - Raceway - Nipple and lock nut ¾"	RRCY0024	Provide and install nipple and ¾" lock nut.
311	Regular Hours - Other Tasks - Core Drilling, 1" hole	RHCA0001	Core Drilling, 1" hole. Must be ordered in conjunction with material component in this Section.
312	Regular Hours - Other Tasks - Core Drilling, 2" hole	RHCA0002	Core Drilling, 2" hole. Must be ordered in conjunction with material component in this Section.
313	Regular Hours - Other Tasks - Core Drilling, 3" hole	RHCA0003	Core Drilling, 3" hole. Must be ordered in conjunction with material component in this Section.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
314	Regular Hours - Other Tasks - Core Drilling, 4" hole	RHCA0004	Core Drilling, 4" hole. Must be ordered in conjunction with material component in this Section
315	Regular Hours - Other Tasks - Wall penetration - drywall	RHCA0005	Wall penetration – drywall. Must be ordered in conjunction with material component in this Section.
316	Regular Hours - Other Tasks - Scissor Lift Rental (20') (Includes daily rate, pickup and delivery fees)	RHCA0006	For contractor use in support of SRI services. Scissor Lift Rental (20') (Includes daily rate, pickup and delivery fees) Must be ordered in conjunction with material component in this Section. For contractor use in support of SRI services.
317	Regular Hours - Other Tasks - CAD Drawing	RHCA0007	CAD Drawing Services
318	Regular Hours - Other Tasks - Fire Seal Penetration, 1" hole	RHCA0009	Fire Seal Penetration, 1" hole.
319	Regular Hours - Other Tasks - Fire Seal Penetration, 2" hole	RHCA0010	Fire Seal Penetration, 2" hole.
320	Regular Hours - Other Tasks - Fire Seal Penetration, 3" hole	RHCA0011	Fire Seal Penetration, 3" hole.
321	Regular Hours - Other Tasks - Fire Seal Penetration, 4" hole	RHCA0012	Fire Seal Penetration, 4" hole.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
322	Regular Hours - Other Tasks - Installation of equipment ground (Includes all material, terminations and labor for each applicable equipment and the installation of 2 - 8' x 5/8" ground rods and # 6 ground wire)	RHCA0013	Installation of equipment ground (Includes all material, terminations and labor for each applicable equipment and the installation of 2 - 8' x 5/8" ground rods and # 6 ground wire).
323	Regular Hours - Other Tasks - Installation of equipment ground (Includes all material, terminations and labor for each applicable equipment and the installation # 6 ground wire.	RHCA0014	Installation of equipment ground (Includes all material, terminations and labor for each applicable equipment and the installation # 6 ground wire.
324	Regular Hours - Other Tasks - 12" Grounding Buss Bar with TMGB Pattern	RHCA0015	Provide and install 12" Grounding Buss Bar with TMGB Pattern.
325	Regular Hours - Other Tasks - 20" Grounding Buss Bar with TMGB Pattern	RHCA0016	Provide and install 20" Grounding Buss Bar with TMGB Pattern.
326	Regular Hours - Other Tasks - 1/4" Compression Grounding Lugs	RHCA0017	Provide and install 1/4" Compression Grounding Lugs.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
327	Regular Hours - Other Tasks - Relocate existing telephone handset (same HC/TC on existing cabling) - includes cross-connect, testing, and documentation	RHCA0018	Relocate existing telephone handset (same HC/TC on existing cabling) - includes cross-connect, testing, and documentation.
328	Regular Hours - Other Tasks - Install new cross-connect	RHCA0019	Install new cross-connect.
329	Regular Hours - Other Tasks - Core Drilling, 1 1/4' Hole	RHCA0021	Provide a 1 1/4" core drill.
330	Regular Hours - Other Tasks - Pre-scan core locations	RHCA0022	Pre-scan locations that will be cored as part of the project.
331	Regular Hours - Other Tasks - 1" SCD 80 PVC Conduit	RHCA0023	Provide and install (1) 1" SCD 80 PVC Conduit.
332	Regular Hours - Other Tasks - 1" SCD 80 PVC Coupler	RHCA0024	Provide and install (1) 1" SCD 80 PVC Coupler.
333	Regular Hours - Other Tasks - 2" SCD 80 PVC Conduit	RHCA0027	Provide and install (1) 2" SCD 80 PVC Conduit.
334	Regular Hours - Other Tasks - 2" SCD 80 PVC Coupler	RHCA0028	Provide and install (1) 2" SCD 80 PVC Coupler.
335	Regular Hours - Other Tasks - 2" Bore Guard	RHCA0031	Provide and install 2" bore guard.
336	Regular Hours - Other Tasks - Process for cores in lead or asbestos	RHCA0032	Labor and material to provide and install cores in areas that contain lead and/or asbestos and need to be handled accordingly.
337	Regular Hours - Other Tasks - Ground Block (bus bar)	RHCA0033	Provide and install ground block (also known as a bus bar).

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
338	Regular Hours - Other Tasks - #6 THHN stranded green ground wire	RHCA0034	Provide and install #6 THHN stranded green ground wire.
339	Regular Hours - Other Tasks - #6 Terminal Lug	RHCA0035	Provide and install #6 terminal lug.
340	Regular Hours - Other Tasks - Place customer provided speaker	RHCA0036	Place customer provided speaker.
341	Regular Hours - Other Tasks - Provide and install right angle bracket (wireless access point)	RHCA0037	Provide and install right angle bracket for installation of wireless access point.
342	Regular Hours - Other Tasks - Unistrut Cantilever slotted	RHCA0042	Provide and install unistrut cantilever slotted.
343	Regular Hours - Other Tasks - 10"x10"x4" pull Box NEMA 1	RHCA0043	Provide and install (1) 10"x10"x4" pull box NEMA 1.
344	Regular Hours - Other Tasks - 10"x10"x4" pull box NEMA 3	RHCA0044	Provide and install (1) 10"x10"x4" pull box NEMA 3.
345	Regular Hours - Other Tasks - 16"x16"x6" pull box NEMA 1	RHCA0045	Provide and install (1) 16"x16"x6" pull box NEMA 1.
346	Regular Hours - Other Tasks - 16"x16"x6" pull box NEMA 3	RHCA0046	Provide and install (1) 16"x16"x6" pull box NEMA 3.
347	Regular Hours - Other Tasks - DB Test for speakers	RHCA0048	Perform a DB test for speakers.
348	Regular Hours - Other Tasks - 1 1/4" compression connector, Rigid	RHCA0049	Provide and install (1) 1 1/4" rigid compression connector.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
349	Regular Hours - Other Tasks - 1 1/4" compression coupler, rigid	RHCA0050	Provide and install (1) 1 1/4" compression coupler, rigid.
350	Regular Hours - Other Tasks - 1 1/4" bushing Rigid	RHCA0051	Provide and install (1) 1 1/4" rigid bushing.
351	Regular Hours - Other Tasks - 1 1/4" unistrut clamp EMT	RHCA0052	Provide and install (1) 1 1/4" EMT unistrut clamp.
352	Regular Hours - Other Tasks - 1 1/2" unistrut clamp EMT	RHCA0053	Provide and install (1) 1 1/2" EMT unistrut clamp.
353	Regular Hours - Other Tasks - Fish Down wall and provide cut in ring	RHCA0054	Fish down wall and provide cut in ring.
354	Regular Hours - Other Tasks - Place ground rod	RHCA0055	Provide and install ground rod.
355	Regular Hours - Other Tasks - Cable lube (material only)	RHCA0057	Cable lube (material only).
356	Regular Hours - Other Tasks - Provide and install CAT6a protector 4-pair	RHCA0058	Provide and install CAT6a protector 4-pair cable.
357	Regular Hours - Other Tasks - Fire Marshall core inspections	RHCA0064	Labor for fire Marshall core inspections.
358	Regular Hours - Other Tasks - Oberon Bracket	RHCA0065	Provide and install an Oberon bracket.
359	Overtime Hours - Telco Room - MDF/IDF/MPOE - Install customer provided UPS	OTMI0001	Install customer provided UPS. Must be ordered in conjunction with a material component in this Category.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
360	Overtime Hours - Telco Room - MDF/IDF/MPOE - Cable 48-port switch (patch cords)	OTMI0002	Install patch cords in customer provided device. Total of 48 patch cords provided and installed.
361	Overtime Hours - Telco Room - MDF/IDF/MPOE - 7' 2- post rack	OTMI0003	Provide and install 7' 2-post rack.
362	Overtime Hours - Telco Room - MDF/IDF/MPOE - 7' 4- post rack	OTMI0004	Provide and install 7' 4-post rack.
363	Overtime Hours - Telco Room - MDF/IDF/MPOE - 36"Hx19"Wx24"D CUBE-IT Wallmount Enclosure with Plexi Door Black	OTMI0005	Provide and install 36"Hx19"Wx24"D CUBE-IT Wallmount Enclosure with Plexi Door Black.
364	Overtime Hours - Telco Room - MDF/IDF/MPOE - Fan Kit for CUBE-IT Enclosure	OTMI0006	Provide and install Fan Kit for CUBE-IT Enclosure.
365	Overtime Hours - Telco Room - MDF/IDF/MPOE - Filter Kit for CUBE-IT Enclosure	OTMI0007	Provide and install Filter Kit for CUBE-IT Enclosure.
366	Overtime Hours - Telco Room - MDF/IDF/MPOE - 26"Hx26"Wx8.5"D Thinline II Wallmount Hinged Door Enclosure	OTMI0008	Provide and install 26"Hx26"Wx8.5"D Thinline II Wallmount Hinged Door Enclosure.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
367	Overtime Hours - Telco Room - MDF/IDF/MPOE - 36"Hx26"Wx8.5"D Thinline II Wallmount Hinged Door Enclosure	OTMI0009	Provide and install 36"Hx26"Wx8.5"D Thinline II Wallmount Hinged Door Enclosure.
368	Overtime Hours - Telco Room - MDF/IDF/MPOE - Thinline II Duplex Receptacle Surge- Suppressed	OTMI0010	Provide and install Thinline II Duplex Receptacle Surge-Suppressed.
369	Overtime Hours - Telco Room - MDF/IDF/MPOE - Thinline II Intelligent Fan kit	OTMI0011	Provide and install Thinline II Intelligent Fan kit.
370	Overtime Hours - Telco Room - MDF/IDF/MPOE - 14.5"Hx23.63"Wx17.7"D SmartRack Low Profile 6U Locking Wall Enclosure	OTMI0012	14.5"Hx23.63"Wx17.7"D SmartRack Low Profile 6U Locking Wall Enclosure. Must be ordered in conjunction with material component in this Section.
371	Overtime Hours - Telco Room - MDF/IDF/MPOE - Install customer provided rack	OTMI0013	Install customer provided rack. Must be ordered in conjunction with a material component in this Category.
372	Overtime Hours - Telco Room - MDF/IDF/MPOE - Horizontal wire manager	OTMI0014	Install and provide horizontal wire manager

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
373	Overtime Hours - Telco Room - MDF/IDF/MPOE - Vertical wire manager	OTMI0015	Install and provide vertical wire manager
374	Overtime Hours - Telco Room - MDF/IDF/MPOE - Install customer provided wire manager	OTMI0016	Install customer provided wire manager. Must be ordered in conjunction with a material component in this Category.
375	Overtime Hours - Telco Room - MDF/IDF/MPOE - Shelf (single sided 3U)	OTMI0017	Provide and Install each shelf (single sided 3U)
376	Overtime Hours - Telco Room - MDF/IDF/MPOE - Customer provided shelf	OTMI0018	Install customer provided shelf. Must be ordered in conjunction with a material component in this section.
377	Overtime Hours - Telco Room - MDF/IDF/MPOE - Hinged Wall Bracket	OTMI0019	Provide and install Hinged Wall Bracket
378	Overtime Hours - Telco Room - MDF/IDF/MPOE - 4' x 4' x 3/4" painted plywood backboard	OTMI0020	Provide and install 4' x 4' x 3/4" painted plywood backboard – fire rated
379	Overtime Hours - Telco Room - MDF/IDF/MPOE - 4' x 8' x 3/4" painted plywood backboard	OTMI0021	Provide and install 4' x 8' x 3/4" painted plywood backboard – fire rated
380	Overtime Hours - Telco Room - MDF/IDF/MPOE - Power strip (4 outlets)	OTMI0022	Provide and Install each power strip (4 outlets). Standard plug in power strip

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
381	Overtime Hours - Telco Room - MDF/IDF/MPOE - 10' of 12" ladder rack and support hardware	OTMI0023	Provide and install up to 10' of 12" ladder rack and support hardware
382	Overtime Hours - Telco Room - MDF/IDF/MPOE - Communication pole 10 feet	OTMI0024	Provide and install Communication pole 10 feet. Matches existing modular furniture manufacturer if available
383	Overtime Hours - Telco Room - MDF/IDF/MPOE - One (1) 20 Amp Duplex Outlet within 75' of Existing Panel	OTMI0025	Provide and install one (1) 20 Amp Duplex Outlet within 75' of Existing Panel. Not to exceed price. IPR available for reduced rates.
384	Overtime Hours - Backbone Cabling Placing and Consumables - 6-strand MM ISP fiber	OCCB0001	Provide and install 6-strand MM ISP fiber. 50 μ or 62.5 μ fiber plenum. Pull line in place (does not include pathway, termination hardware, terminating or testing).
385	Overtime Hours - Backbone Cabling Placing and Consumables - 6-strand SM ISP fiber	OCCB0002	Provide and install 6-strand SM ISP fiber. 8.3 μ fiber plenum. Pull line in place (does not include pathway, termination hardware, terminating or testing).
386	Overtime Hours - Backbone Cabling Placing and Consumables - 12-strand MM ISP fiber	OCCB0003	Provide and install 12-strand MM ISP fiber. 50 μ or 62.5 μ fiber plenum. Pull line in place (does not include pathway, termination hardware, terminating or testing).
387	Overtime Hours - Backbone Cabling Placing and Consumables - 12-strand SM ISP Fiber	OCCB0004	Provide and install 12-strand SM ISP fiber. 8.3 μ fiber plenum. Pull line in place (does not include pathway, termination hardware, terminating or testing).

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
388	Overtime Hours - Backbone Cabling Placing and Consumables - 6-strand MM Indoor/Outdoor Fiber	OCCB0005	Provide and install 6-strand MM Indoor/Outdoor fiber. Pull line in place (does not include pathway, termination hardware, terminating or testing).
389	Overtime Hours - Backbone Cabling Placing and Consumables - 6-strand SM Indoor/Outdoor Fiber	OCCB0006	Provide and install 6-strand SM Indoor/Outdoor fiber. Pull line in place (does not include pathway, termination hardware, terminating or testing).
390	Overtime Hours - Backbone Cabling Placing and Consumables - 12-strand MM Indoor/Outdoor Fiber	OCCB0007	Provide and install 12-strand MM Indoor/Outdoor fiber. Pull line in place (does not include pathway, termination hardware, terminating or testing).
391	Overtime Hours - Backbone Cabling Placing and Consumables - 12-strand SM Indoor/Outdoor Fiber	OCCB0008	Provide and install 12-strand SM Indoor/Outdoor fiber. Pull line in place (does not include pathway, termination hardware, terminating or testing).
392	Overtime Hours - Backbone Cabling Placing and Consumables - 6-strand SM OSP Loose Tube underground fiber	OCCB0009	Provide and install 6-strand SM OSP Loose Tube underground fiber. Pull line in place (does not include pathway, termination hardware, terminating or testing).
393	Overtime Hours - Backbone Cabling Placing and Consumables - 12-strand SM OSP Loose Tube underground fiber	OCCB0010	Provide and install 12-strand SM OSP Loose Tube underground fiber. Pull line in place (does not include pathway, termination hardware, terminating or testing).

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
394	Overtime Hours - Backbone Cabling Placing and Consumables - 24-strand SM OSP Loose Tube underground fiber	OCCB0011	Provide and install 24-strand SM OSP Loose Tube underground fiber. Pull line in place (does not include pathway, termination hardware, terminating or testing).
395	Overtime Hours - Backbone Cabling Placing and Consumables - 48-strand SM OSP Loose Tube underground fiber	OCCB0012	Provide and install 48-strand SM OSP Loose Tube underground fiber. Pull line in place (does not include pathway, termination hardware, terminating or testing).
396	Overtime Hours - Backbone Cabling Placing and Consumables - 24-strand SM Indoor/Outdoor Fiber	OCCB0013	Provide and install 24-strand SM Indoor/Outdoor fiber. Pull line in place (does not include pathway, termination hardware, terminating or testing).
397	Overtime Hours - Backbone Cabling Placing and Consumables - 48-strand SM Indoor/Outdoor fiber	OCCB0014	Provide and install 48-strand SM Indoor/Outdoor fiber. Pull line in place (does not include pathway, termination hardware, terminating or testing).
398	Overtime Hours - Backbone Cabling Placing and Consumables - 6-strand Fanout Kit SingleMode	OCCB0015	Provide and install 6-strand Fanout Kit SingleMode
399	Overtime Hours - Backbone Cabling Placing and Consumables - 6-strand Fanout Kit MultiMode	OCCB0016	Provide and install 6-strand Fanout Kit MultiMode

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
400	Overtime Hours - Backbone Cabling Placing and Consumables - 12-strand Fanout Kit SingleMode	OCCB0017	Provide and install 12-strand Fanout Kit SingleMode
401	Overtime Hours - Backbone Cabling Placing and Consumables - 12-strand Fanout Kit MultiMode	OCCB0018	Provide and install 12-strand Fanout Kit MultiMode
402	Overtime Hours - Backbone Cabling Placing and Consumables - 1" innerduct underground in existing duct	OCCB0019	Provide and install 1" innerduct underground in existing duct. Override situations will be accessed by contractor for viability. Pull line in place (does not include pathway, termination hardware, terminating or testing).
403	Overtime Hours - Backbone Cabling Placing and Consumables - 1 1/4" innerduct underground in existing duct	OCCB0020	Provide and install 1 1/4" innerduct underground in existing duct. Override situations will be accessed by contractor for viability. Pull line in place (does not include pathway, termination hardware, terminating or testing).
404	Overtime Hours - Backbone Cabling Placing and Consumables - 25-pair copper ISP	OCCB0021	Provide and install 25-pair copper ISP. Plenum. Pull line in place (does not include pathway, termination hardware, terminating or testing).
405	Overtime Hours - Backbone Cabling Placing and Consumables - 25-pair copper underground OSP	OCCB0022	Provide and install 25-pair copper underground OSP. Pull line in place (does not include pathway, termination hardware, terminating or testing).

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
406	Overtime Hours - Backbone Cabling Placing and Consumables - 50-pair copper ISP	OCCB0023	Provide and install 50-pair copper ISP. Plenum. Pull line in place (does not include pathway, termination hardware, terminating or testing).
407	Overtime Hours - Backbone Cabling Placing and Consumables - 50-pair copper underground OSP	OCCB0024	Provide and install 50-pair copper underground OSP. Pull line in place (does not include pathway, termination hardware, terminating or testing).
408	Overtime Hours - Backbone Cabling Placing and Consumables - 100-pair copper ISP	OCCB0025	Provide and install 100-pair copper ISP. Plenum. Pull line in place (does not include pathway, termination hardware, terminating or testing).
409	Overtime Hours - Backbone Cabling Placing and Consumables - 100-pair copper underground OSP	OCCB0026	Provide and install 100-pair copper underground OSP. Pull line in place (does not include pathway, termination hardware, terminating or testing).
410	Overtime Hours - Backbone and Circuit Extension Cable Placing and Consumables - 300' Cat 6 copper ISP circuit extension	OCCE0001	Provide and install up to 300' Cat 6 copper ISP circuit extension. Plenum Pull line in place (does not include pathway, termination hardware, terminating or testing).
411	Overtime Hours - Backbone and Circuit Extension Cable Placing and Consumables - 300' Cat 6 copper OSP circuit extension	OCCE0002	Provide and install up to 300' Cat 6 copper OSP circuit extension. Pull line in place (does not include pathway, termination hardware, terminating or testing).

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
412	Overtime Hours - Backbone and Circuit Extension Cable Placing and Consumables - 300' 25-pair copper ISP circuit extension	OCCE0003	Provide and install up to 300' 25-pair copper ISP circuit extension. Plenum Pull line in place (does not include pathway, termination hardware, terminating or testing).
413	Overtime Hours - Backbone and Circuit Extension Cable Placing and Consumables - 300' 25-pair copper OSP circuit extension	OCCE0004	Provide and install up to 300' 25-pair copper OSP circuit extension Pull line in place (does not include pathway, termination hardware, terminating or testing).
414	Overtime Hours - Backbone and Circuit Extension Cable Placing and Consumables - 300' RG58 COAX ISP	OCCE0005	Provide and install up to 300' RG58 COAX ISP. Plenum Pull line in place (does not include pathway, termination hardware, terminating or testing).
415	Overtime Hours - Backbone and Circuit Extension Cable Placing and Consumables - 300' RG62 COAX ISP	OCCE0006	Provide and install up to 300' RG62 COAX ISP. Plenum Pull line in place (does not include pathway, termination hardware, terminating or testing).
416	Overtime Hours - Backbone and Circuit Extension Cable Placing and Consumables - 300' RG6 COAX ISP	OCCE0007	Provide and install up to 300' RG6 COAX ISP. Plenum Pull line in place (does not include pathway, termination hardware, terminating or testing).
417	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - 25-pair protector	OCCT0001	Provide and install 25-pair protector. Gas modules or match existing. Terminating and testing not included.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
418	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - 50-pair protector	OCCT0002	Provide and install 50-pair protector. Gas modules or match existing. Terminating and testing not included.
419	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - 100-pair protector	OCCT0003	Provide and install 100-pair protector. Gas modules or match existing. Terminating and testing not included.
420	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - 4-pair protector	OCCT0004	Provide and install 4-pair protector. Gas modules or match existing. Terminating and testing not included.
421	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - Protector modules	OCCT0005	Provide and install protector modules. Gas modules or match existing. Terminating and testing not included.
422	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - BIX mount 250-pair	OCCT0006	Provide and install BIX mount 250- pair Terminating and testing not included.
423	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - BIX connector	OCCT0007	Provide and install BIX connector Terminating and testing not included.
424	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - BIX ring	OCCT0008	Provide and install BIX ring Terminating and testing not included.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
425	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - 66-type Block 50 pair	OCCT0009	Provide and install 66-type Block 50 pair Terminating and testing not included.
426	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - 110-style block 100 pair kit	OCCT0010	Provide and install 110-style block 100 pair kit. Includes C4 or C5 clips Terminating and testing not included.
427	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - Rack Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber	OCCT0011	Provide and install Rack Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber. Cabinet only. Panels purchased separately Terminating and testing not included.
428	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - Rack Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber	OCCT0012	Provide and install Rack Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber. Cabinet only. Panels purchased separately Terminating and testing not included.
429	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - Wall Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber	OCCT0013	Provide and install Wall Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber. Cabinet only. Panels purchased separately Terminating and testing not included.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
430	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - Wall Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber	OCCT0014	Provide and install Wall Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber. Cabinet only. Panels purchased separately Terminating and testing not included.
431	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - 6-strand connector panel MM 50/125 SC	OCCT0015	Provide and Install 6-strand connector panel MM 50/125 SC. Complete with couplers
432	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - 6-strand connector panel MM 50/125 LC	OCCT0016	Provide and install 6-strand connector panel MM 50/125 LC. Complete with couplers Terminating and testing not included.
433	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - 6-strand connector panel MM 62.5/125 SC	OCCT0017	Provide and install 6-strand connector panel MM 62.5/125 SC. Complete with couplers Terminating and testing not included.
434	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - 6-strand connector panel MM 62.5/125 LC	OCCT0018	Provide and install 6-strand connector panel MM 62.5/125 LC. Complete with couplers Terminating and testing not included.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
435	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - 12-strand connector panel MM 50/125 SC	OCCT0019	Provide and install 12-strand connector panel MM 50/125 SC. Complete with couplers Terminating and testing not included.
436	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - 12-strand connector panel MM 50/125 LC	OCCT0020	Provide and install 12-strand connector panel MM 50/125 LC. Complete with couplers Terminating and testing not included.
437	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - 12-strand connector panel MM 62.5/125 SC	OCCT0021	Provide and install 12-strand connector panel MM 62.5/125 SC. Complete with couplers Terminating and testing not included.
438	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - 12-strand connector panel MM 62.5/125 LC	OCCT0022	Provide and install 12-strand connector panel MM 62.5/125 LC, Complete with couplers Terminating and testing not included.
439	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - 6-strand connector panel SM SC	OCCT0023	Provide and install 6-strand connector panel SM SC. Complete with couplers Terminating and testing not included.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
440	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - 6-strand connector panel SM LC	OCCT0024	Provide and install 6-strand connector panel SM LC. Complete with couplers Terminating and testing not included.
441	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - 12-strand connector panel SM SC	OCCT0025	Provide and install 12-strand connector panel SM SC. Complete with couplers Terminating and testing not included.
442	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - 12-strand connector panel SM LC	OCCT0026	Provide and install 12-strand connector panel SM LC. Complete with couplers Terminating and testing not included.
443	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - Provide SC Compatible 50µm Multimode connector (material only)	OCCT0027	Provide SC Compatible 50µm Multimode connector (material only) Provide SC Compatible 50µm Multimode connector (material only). Provide SC Compatible 50µm Multimode connector (material only). Must be ordered with Product Identifiers REDW0006 or REDW0007 and REDW0008. Terminating and testing not included.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
444	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - Provide SC Compatible 62.5µm Multimode connector (material only)	OCCT0028	Provide SC Compatible 62.5µm Multimode connector (material only). Must be ordered with Product Identifiers REDW0006 or REDW0007 and REDW0008. Terminating and testing not included.
445	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - Provide SC Compatible Single Mode connector (material only)	OCCT0029	Provide SC Compatible Single Mode connector (material only). Must be ordered with Product Identifiers REDW0006 or REDW0007 and REDW0008.
446	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - Provide LC Compatible 50µm Multimode connector (material only)	OCCT0030	Provide LC Compatible 50µm Multimode connector (material only). Must be ordered with Product Identifiers REDW0006 or REDW0007 and REDW0008. Terminating and testing not included.
447	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - Provide LC Compatible 62.5µm Multimode connector (material only)	OCCT0031	Provide LC Compatible 62.5µm Multimode connector (material only). Must be ordered with Product Identifiers REDW0006 or REDW0007 and REDW0008. Terminating and testing not included.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
448	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - Provide LC Compatible Single Mode connector (material only)	OCCT0032	Provide LC Compatible Single Mode connector (material only). Must be ordered with Product Identifiers REDW0006 or REDW0007 and REDW0008. Terminating and testing not included.
449	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 62.5/125 SC To SC 1 Meter Patch Cable	OCCT0033	Provide and install Multimode 62.5/125 SC To SC 1 Meter Patch Cable. Terminating and testing not included.
450	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 62.5/125 SC To SC 3 Meter Patch Cable	OCCT0034	Provide and install Multimode 62.5/125 SC To SC 3 Meter Patch Cable. Terminating and testing not included.
451	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 62.5/125 SC To SC 10 Meter Patch Cable	OCCT0035	Provide and Install Multimode 62.5/125 SC To SC 10 Meter Patch Cable. Terminating and testing not included.
452	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 62.5/125 SC To LC 1 Meter Patch Cable	OCCT0036	Provide and install Multimode 62.5/125 SC To LC 1 Meter Patch Cable. Terminating and testing not included.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
453	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 62.5/125 SC To LC 3 Meter Patch Cable	OCCT0037	Provide and install Multimode 62.5/125 SC To LC 3 Meter Patch Cable. Terminating and testing not included.
454	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 62.5/125 SC To LC 10 Meter Patch Cable	OCCT0038	Provide and install Multimode 62.5/125 SC To LC 10 Meter Patch Cable. Terminating and testing not included.
455	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 62.5/125 LC To LC 1 Meter Patch Cable	OCCT0039	Provide and install Multimode 62.5/125 LC To LC 1 Meter Patch Cable. Terminating and testing not included.
456	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 62.5/125 LC To LC 3 Meter Patch Cable	OCCT0040	Provide and install Multimode 62.5/125 LC To LC 3 Meter Patch Cable. Terminating and testing not included.
457	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 62.5/125 LC To LC 10 Meter Patch Cable	OCCT0041	Provide and install Multimode 62.5/125 LC To LC 10 Meter Patch Cable. Terminating and testing not included.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
458	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 50/125 SC To SC 1 Meter Patch Cable	OCCT0042	Provide and install Multimode 50/125 SC To SC 1 Meter Patch Cable. Terminating and testing not included.
459	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 50/125 SC To SC 3 Meter Patch Cable	OCCT0043	Provide and install Multimode 50/125 SC To SC 3 Meter Patch Cable. Terminating and testing not included.
460	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 50/125 SC To SC 10 Meter Patch Cable	OCCT0044	Provide and install Multimode 50/125 SC To SC 10 Meter Patch Cable. Terminating and testing not included.
461	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 50/125 SC To LC 1 Meter Patch Cable	OCCT0045	Provide and install Multimode 50/125 SC To LC 1 Meter Patch Cable. Terminating and testing not included.
462	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 50/125 SC To LC 3 Meter Patch Cable	OCCT0046	Provide and install Multimode 50/125 SC To LC 3 Meter Patch Cable. Terminating and testing not included.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
463	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 50/125 SC To LC 10 Meter Patch Cable	OCCT0047	Provide and install Multimode 50/125 SC To LC 10 Meter Patch Cable. Terminating and testing not included.
464	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 50/125 LC To LC 1 Meter Patch Cable	OCCT0048	Provide and install Multimode 50/125 LC To LC 1 Meter Patch Cable. Terminating and testing not included.
465	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 50/125 LC To LC 3 Meter Patch Cable	OCCT0049	Provide and install Multimode 50/125 LC To LC 3 Meter Patch Cable. Terminating and testing not included.
466	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 50/125 LC To LC 10 Meter Patch Cable	OCCT0050	Provide and install Multimode 50/125 LC To LC 10 Meter Patch Cable. Terminating and testing not included.
467	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - Single Mode 9/125 SC To SC 1 Meter Patch Cable	OCCT0051	Provide and install Single Mode 9/125 SC To SC 1 Meter Patch Cable. Terminating and testing not included.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
468	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - Single Mode 9/125 SC To SC 3 Meter Patch Cable	OCCT0052	Provide and install Single Mode 9/125 SC To SC 3 Meter Patch Cable. Terminating and testing not included.
469	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - Single Mode 9/125 SC To SC 10 Meter Patch Cable	OCCT0053	Provide and install Single Mode 9/125 SC To SC 10 Meter Patch Cable. Terminating and testing not included.
470	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - Single Mode 9/125 SC To LC 1 Meter Patch Cable	OCCT0054	Provide and install Single Mode 9/125 SC To LC 1 Meter Patch Cable. Terminating and testing not included.
471	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - Single Mode 9/125 SC To LC 3 Meter Patch Cable	OCCT0055	Provide and install Single Mode 9/125 SC To LC 3 Meter Patch Cable. Terminating and testing not included.
472	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - Single Mode 9/125 SC To LC 10 Meter Patch Cable	OCCT0056	Provide and install Single Mode 9/125 SC To LC 10 Meter Patch Cable. Terminating and testing not included.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
473	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - Single Mode 9/125 LC To LC 1 Meter Patch Cable	OCCT0057	Provide and install Single Mode 9/125 LC To LC 1 Meter Patch Cable. Terminating and testing not included.
474	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - Single Mode 9/125 LC To LC 3 Meter Patch Cable	OCCT0058	Provide and install Single Mode 9/125 LC To LC 3 Meter Patch Cable. Terminating and testing not included.
475	Overtime Hours - Backbone and Circuit Extension - Termination Hardware - Single Mode 9/125 LC To LC 10 Meter Patch Cable	OCCT0059	Provide and install Single Mode 9/125 LC To LC 10 Meter Patch Cable. Terminating and testing not included.
476	Overtime Hours - Backbone and Circuit Extension Termination and/or Testing - Copper cable termination per pair (25 pair and larger)	OSNC0001	Labor and consumables to terminate and test media. Must be ordered in conjunction with material component in this Section.
477	Overtime Hours - Backbone and Circuit Extension Termination and/or Testing - Copper cable splicing per pair (25 pair and larger)	OSNC0002	Labor and consumables to splice and test media. Must be ordered in conjunction with material component in this Section.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
478	Overtime Hours - Backbone and Circuit Extension Termination and/or Testing - Copper cable testing per pair (25 pair and larger)	OSNC0003	Labor to perform continuity test. Must be ordered in conjunction with material component in this Section.
479	Overtime Hours - Backbone and Circuit Extension Termination and/or Testing - Tone, locate, test, tag and document Circuit	OSNC0004	Test and Tone on both sides of a single circuit, copper pair, between termination points. Must be ordered in conjunction with material component in this Section.
480	Overtime Hours - Backbone and Circuit Extension Termination and/or Testing - Install Fiber termination connector	OSNC0006	Install Fiber termination connector - Labor only. Must be ordered in conjunction with material component in this Section.
481	Overtime Hours - Backbone and Circuit Extension Termination and/or Testing - Splice Fiber per strand	OSNC0007	Splice Fiber per strand. Labor only - SM or MM. Must be ordered in conjunction with material component in this Section.
482	Overtime Hours - Backbone and Circuit Extension Termination and/or Testing - Fiber testing per strand	OSNC0008	OTDR Must be ordered in conjunction with material component in this Section.
483	Overtime Hours - Backbone and Circuit Extension Termination and/or Testing - Provide 4-pair CAT5e termination and testing	OSNC0009	Labor only. Includes BICSI standard testing (end to end)

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
484	Overtime Hours - Backbone and Circuit Extension Termination and/or Testing - Terminate and test 4-pair Cat 6	OSNC0010	Labor only. Includes BICSI standard testing (end to end) Must be ordered in conjunction with material component in this Section.
485	Overtime Hours - Backbone and Circuit Extension Termination and/or Testing - Terminate 4-pair Cat 6	OSNC0011	Reterminate one end only jack or patch panel Must be ordered in conjunction with material component in this Section.
486	Overtime Hours - Backbone and Circuit Extension Termination and/or Testing - Test 4-pair Cat 6	OSNC0012	Test only Includes BICSI standard testing (end to end) Must be ordered in conjunction with material component in this Section.
487	Overtime Hours - Backbone and Circuit Extension Termination and/or Testing - Terminate and test 4-pair Cat 6A	OSNC0013	Labor only. Includes BICSI standard testing (end to end) Must be ordered in conjunction with material component in this Section.
488	Overtime Hours - Backbone and Circuit Extension Termination and/or Testing - Terminate 4-pair Cat 6A	OSNC0014	Reterminate one end only jack or patch panel Must be ordered in conjunction with material component in this Section.
489	Overtime Hours - Backbone and Circuit Extension Termination and/or Testing - Test 4-pair Cat 6A	OSNC0015	Test only Includes BICSI standard testing (end to end) Must be ordered in conjunction with material component in this Section.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
490	Overtime Hours - Station Cabling, Cable Placement and Consumables Only - pull line in place - Single 4-pair Cat 6 PVC cable for voice or data application	MLCO0001	Provide and Install single 4-pair Cat 6 PVC cable for voice or data application Does not include pathway or termination hardware.
491	Overtime Hours - Station Cabling, Cable Placement and Consumables Only - pull line in place - Single 4-pair Cat 6 plenum cable for voice or data application	MLCO0002	Provide and Install single 4-pair Cat 6 plenum cable for voice or data application. Does not include pathway or termination hardware.
492	Overtime Hours - Station Cabling, Cable Placement and Consumables Only - pull line in place - Single 4-pair Cat 6 OSP cable for voice or data application	MLCO0003	Provide and Install single 4-pair Cat 6 OSP cable for voice or data application Does not include pathway or termination hardware.
493	Overtime Hours - Station Cabling, Cable Placement and Consumables Only - pull line in place - Single 4-pair Cat 6A PVC cable for voice or data application	MLCO0004	Provide and Install single 4-pair Cat 6A PVC cable for voice or data application Does not include pathway or termination hardware.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
494	Overtime Hours - Station Cabling, Cable Placement and Consumables Only - pull line in place - Single 4-pair Cat 6A plenum cable for voice or data application	MLCO0005	Provide and Install single 4-pair Cat 6A plenum cable for voice or data application
495	Overtime Hours - Station Cabling, Cable Placement and Consumables Only - pull line in place - Single 4-pair Cat 6A OSP cable for voice or data application	MLCO0006	Provide and Install single 4-pair Cat 6A OSP cable for voice or data application Does not include pathway or termination hardware.
496	Overtime Hours - Additional Components (Material and Labor to install) - One 24-port unloaded Cat 5E/6/6A Patch Panel	OTEW0001	Provide and install one 24-port unloaded Cat 6A Patch Panel
497	Overtime Hours - Additional Components (Material and Labor to install) - One 48-port unloaded Cat 5E/6/6A Patch Panel	OTEW0002	Provide and install one 48-port unloaded Cat 6A Patch Panel Does not include Jacks or terminations
498	Overtime Hours - Additional Components (Material and Labor to install) - New 24-port Cat 6 patch panel	OTEW0003	Provide and install new 24-port Cat 6 patch panel Does not include Jacks or terminations

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
499	Overtime Hours - Additional Components (Material and Labor to install) - New 48-port Cat 6 patch panel	OTEW0004	Provide and install new 48-port Cat 6 patch panel
500	Overtime Hours - Additional Components (Material and Labor to install) - New 24-port Cat 6A patch panel	OTEW0005	Provide and install new 24-port Cat 6A patch panel
501	Overtime Hours - Additional Components (Material and Labor to install) - New 48-port Cat 6A patch panel	OTEW0006	Provide and install new 48-port Cat 6A patch panel
502	Overtime Hours - Additional Components (Material and Labor to install) - New 12-port Cat 6 patch panel	OTEW0007	Provide and install new 12-port Cat 6 patch panel
503	Overtime Hours - Additional Components (Material and Labor to install) - Face plate plastic	OTEW0008	Provide and install face plate plastic
504	Overtime Hours - Additional Components (Material and Labor to install) - Modular furniture device plate	OTEW0009	Provide and install modular furniture device plate

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
505	Overtime Hours - Additional Components (Material and Labor to install) - 4-port stainless steel faceplate	OTEW0010	Provide and install 4-port stainless steel faceplate
506	Overtime Hours - Additional Components (Material and Labor to install) - 6-port stainless steel faceplate	OTEW0011	Provide and install 6-port stainless steel faceplate
507	Overtime Hours - Additional Components (Material and Labor to install) - Cat 6 jack insert	OTEW0012	Provide and install Cat 6 jack insert
508	Overtime Hours - Additional Components (Material and Labor to install) - Cat 6A jack insert	OTEW0013	Provide and install Cat 6A jack insert
509	Overtime Hours - Additional Components (Material and Labor to install) - 3' Cat 5e patch cord	OTEW0014	Provide and install 3' Cat 5e patch cord
510	Overtime Hours - Additional Components (Material and Labor to install) - 5' Cat 5e patch cord	OTEW0015	Provide and install 5' Cat 5e patch cord

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
511	Overtime Hours - Additional Components (Material and Labor to install) - 7' Cat 5e patch cord	OTEW0016	Provide and install 7' Cat 5e patch cord
512	Overtime Hours - Additional Components (Material and Labor to install) - 10' Cat 5e patch cord	OTEW0017	Provide and install 10' Cat 5e patch cord
513	Overtime Hours - Additional Components (Material and Labor to install) - 3' Cat 6 patch cord	OTEW0018	Provide and install 3' Cat 6 patch cord
514	Overtime Hours - Additional Components (Material and Labor to install) - 5' Cat 6 patch cord	OTEW0019	Provide and install 5' Cat 6 patch cord
515	Overtime Hours - Additional Components (Material and Labor to install) - 7' Cat 6 patch cord	OTEW0020	Provide and install 7' Cat 6 patch cord
516	Overtime Hours - Additional Components (Material and Labor to install) - 10' Cat 6 patch cord	OTEW0021	Provide and install 10' Cat 6 patch cord

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
517	Overtime Hours - Additional Components (Material and Labor to install) - 15' Cat 6 patch cord	OTEW0022	Provide and install 15' Cat 6 patch cord
518	Overtime Hours - Additional Components (Material and Labor to install) - 25' Cat 6 patch cord	OTEW0023	Provide and install 25' Cat 6 patch cord
519	Overtime Hours - Additional Components (Material and Labor to install) - Velcro Ties (roll 25 yards)	OTEW0024	Provide and install Velcro Ties (roll 25 yards)
520	Overtime Hours - Additional Components (Material and Labor to install) - Fiber splice closure	OTEW0025	Provide and install Fiber splice closure. OSP rated.
521	Overtime Hours - Additional Components (Material and Labor to install) - Fiber splice tray	OTEW0026	Provide and install Fiber splice tray.
522	Overtime Hours - Additional Components (Material and Labor to install) - Copper splice case 4.0x25	OTEW0027	Provide and install Copper splice case 4.0x25. OSP rated.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
523	Overtime Hours - Additional Components (Material and Labor to install) - Copper splice case 6.5x28	OTEW0028	Provide and install Copper splice case 6.5x28. OSP rate.
524	Overtime Hours - Additional Components (Material and Labor to install) - Provide Copper splice module 25 pair (material only)	OTEW0029	Provide Copper splice module 25 pair (material only).
525	Overtime Hours - Pathway - Rod & rope conduit	DWPO0001	Pull string or rope provided, rope will be sized appropriately to conduit size.
526	Overtime Hours - Pathway - Rod, rope and place up to three (3) 1" innerducts in same conduit	DWPO0002	Provide rod, rope and place up to three (3) 1" innerducts in the same conduit.
527	Overtime Hours - Pathway - One stick (10') of 1" EMT & three (3) 2-hole straps	DWPO0003	Provide and install one stick (10') of 1" EMT & three (3) 2-hole straps.
528	Overtime Hours - Pathway - One stick (10') of 1 1/4" EMT & three (3) 2-hole straps	DWPO0004	Provide and install one stick (10') of 1 1/4" EMT & three (3) 2-hole straps.
529	Overtime Hours - Pathway - One stick (10') of 2" EMT & three (3) 2-hole straps	DWPO0005	Provide and install one stick (10') of 2" EMT & three (3) 2-hole straps.
530	Overtime Hours - Pathway - One stick (10') of 1" Rigid & three (3) 2-hole straps	DWPO0006	Provide and install one stick (10') of 1" Rigid & three (3) 2-hole straps.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
531	Overtime Hours - Pathway - One stick (10') of 1 1/4" Rigid & three (3) 2-hole straps	DWPO0007	Provide and install one stick (10') of 1 1/4" Rigid & three (3) 2-hole straps.
532	Overtime Hours - Pathway - One stick (10') of 2" Rigid & three (3) 2-hole straps	DWPO0008	Provide and install one stick (10') of 2" Rigid & three (3) 2-hole straps.
533	Overtime Hours - Pathway - One stick (10') of 3" EMT & three (3) 2-hole straps	DWPO0009	Provide and install one stick (10') of 3" EMT & three (3) 2-hole straps.
534	Overtime Hours - Pathway - One stick (10') of 4" EMT & three (3) 2-hole straps	DWPO0010	Provide and install one stick (10') of 4" EMT & three (3) 2-hole straps.
535	Overtime Hours - Pathway - One Stick (10') of 2" SCH 80 PVC	DWPO0011	Provide and install one stick (10') of 2" SCH 80 PVC & three (3) 2-hole straps.
536	Overtime Hours - Pathway - One Stick (10') of 4" SCH 80 PVC	DWPO0012	Provide and install one stick (10') of 4" SCH 80 PVC & three (3) 2-hole straps.
537	Overtime Hours - Pathway - One 1" EMT Stub up from device box to above ceiling including straps, connector and bushing	DWPO0013	Provide and install one 1" EMT Stub up from device box to above ceiling including straps, connector and bushing.
538	Overtime Hours - Pathway - Surface mount box	DWPO0014	Provide and install Surface mount box.
539	Overtime Hours - Pathway - 1" 2-hole strap, EMT	DWPO0015	Provide and install 1" 2-hole strap, EMT.
540	Overtime Hours - Pathway - 1" bushing, EMT	DWPO0016	Provide and install 1" bushing, EMT.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
541	Overtime Hours - Pathway - 1" compression connector, EMT	DWPO0017	Provide and install 1" compression connector, EMT.
542	Overtime Hours - Pathway - 1" compression coupler, EMT	DWPO0018	Provide and install 1" compression coupler, EMT.
543	Overtime Hours - Pathway - 1" Chase Nipple	DWPO0019	Provide and install 1" Chase Nipple
544	Overtime Hours - Pathway - 1" Unistrut clamp, EMT	DWPO0020	Provide and install 1" Unistrut clamp, EMT.
545	Overtime Hours - Pathway - 2" 2-hole strap, EMT	DWPO0021	Provide and install 2" 2-hole strap, EMT.
546	Overtime Hours - Pathway - 2" bushing, EMT	DWPO0022	Provide and install 2" bushing, EMT.
547	Overtime Hours - Pathway - 2" compression connector, EMT	DWPO0023	Provide and install 2" compression connector, EMT.
548	Overtime Hours - Pathway - 2" compression coupler, EMT	DWPO0024	Provide and install 2" compression coupler, EMT.
549	Overtime Hours - Pathway - 2" Chase Nipple	DWPO0025	Provide and install 2" Chase Nipple
550	Overtime Hours - Pathway - 2" Unistrut clamp, EMT	DWPO0026	Provide and install 2" Unistrut clamp, EMT.
551	Overtime Hours - Pathway - 3" 2-hole strap, EMT	DWPO0027	Provide and install 3" 2-hole strap, EMT.
552	Overtime Hours - Pathway - 3" bushing, EMT	DWPO0028	Provide and install 3" bushing, EMT.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
553	Overtime Hours - Pathway - Provide and install 3" compression connector, EMT	DWPO0029	Provide and install 3" compression connector, EMT.
554	Overtime Hours - Pathway - 3" compression coupler, EMT	DWPO0030	Provide and install 3" compression coupler, EMT.
555	Overtime Hours - Pathway - 3" Unistrut clamp, EMT	DWPO0031	Provide and install 3" Unistrut clamp, EMT.
556	Overtime Hours - Pathway - 4" 2-hole strap, EMT	DWPO0032	Provide and install 4" 2-hole strap, EMT.
557	Overtime Hours - Pathway - 4" bushing, EMT	DWPO0033	Provide and install 4" bushing, EMT.
558	Overtime Hours - Pathway - 4" compression connector, EMT	DWPO0034	Provide and install 4" compression connector, EMT.
559	Overtime Hours - Pathway - 4" compression coupler, EMT	DWPO0035	Provide and install 4" compression coupler, EMT.
560	Overtime Hours - Pathway - 4" Unistrut clamp, EMT	DWPO0036	Provide and install 4" Unistrut clamp, EMT.
561	Overtime Hours - Pathway - 4" Chase Nipple	DWPO0037	Provide and install 4" Chase Nipple
562	Overtime Hours - Pathway - 1" 2-hole strap, Rigid	DWPO0038	Provide and install 1" 2-hole strap, Rigid.
563	Overtime Hours - Pathway - 1" bushing, Rigid	DWPO0039	Provide and install 1" bushing, Rigid.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
564	Overtime Hours - Pathway - 1" compression connector, Rigid	DWPO0040	Provide and install 1" compression connector, Rigid.
565	Overtime Hours - Pathway - 1" compression coupler, Rigid	DWPO0041	Provide and install 1" compression coupler, Rigid.
566	Overtime Hours - Pathway - 1" Unistrut clamp, Rigid	DWPO0042	Provide and install 1" Unistrut clamp, Rigid.
567	Overtime Hours - Pathway - 2" 2-hole strap, Rigid	DWPO0043	Provide and install 2" 2-hole strap, Rigid.
568	Overtime Hours - Pathway - 2" bushing, Rigid	DWPO0044	Provide and install 2" bushing, Rigid.
569	Overtime Hours - Pathway - 2" compression connector, Rigid	DWPO0045	Provide and install 2" compression connector, Rigid.
570	Overtime Hours - Pathway - 2" compression coupler, Rigid	DWPO0046	Provide and install 2" compression coupler, Rigid.
571	Overtime Hours - Pathway - 2" Unistrut clamp, Rigid	DWPO0047	Provide and install 2" Unistrut clamp, Rigid.
572	Overtime Hours - Pathway - 2" threaded connector, PVC	DWPO0048	Provide and install 2" threaded connector, PVC
573	Overtime Hours - Pathway - 2" coupler, PVC	DWPO0049	Provide and install 2" coupler, PVC
574	Overtime Hours - Pathway - 4" threaded connector, PVC	DWPO0050	Provide and install 4" threaded connector, PVC

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
575	Overtime Hours - Pathway - 4" coupler, PVC	DWPO0051	Provide and install 4" coupler, PVC
576	Overtime Hours - Pathway - 2" J-Hook w/multipurpose clip	DWPO0052	Provide and install 2" J-Hook w/multipurpose clip.
577	Overtime Hours - Pathway - 1" J-Hook w/multipurpose clip	DWPO0053	Provide and install 1" J-Hook w/multipurpose clip
578	Overtime Hours - Pathway - 3" J-Hook w/multipurpose clip	DWPO0054	Provide and install 3" J-Hook w/multipurpose clip
579	Overtime Hours - Pathway - Pencil Rod (for J-Hook mounting)	DWPO0055	Provide and install Pencil Rod (for J-Hook mounting)
580	Overtime Hours - Pathway - Stringer wire (for j-hook mounting)	DWPO0056	Provide and install Stringer wire (for j-hook mounting)
581	Overtime Hours - Pathway - Bell box (raco 5387-0)	DWPO0057	Provide and install Bell box (raco 5387-0).
582	Overtime Hours - Pathway - 8"x8"x6" pull box NEMA 1	DWPO0058	Provide and install 8"x8"x6" pull box NEMA 1.
583	Overtime Hours - Pathway - 12"x12"x8" NEMA 1 junction box NEMA 1	DWPO0059	Provide and install 12"x12"x8" NEMA 1 junction box NEMA 1.
584	Overtime Hours - Pathway - 12"x12"x8" NEMA 1 junction box NEMA 3	DWPO0060	Provide and install 12"x12"x8" NEMA 1 junction box NEMA 3.
585	Overtime Hours - Pathway - 18"x18"x8" NEMA 3 junction box	DWPO0061	Provide and install 18"x18"x8" NEMA 3 junction box

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
586	Overtime Hours - Pathway - Install customer provided WAP (Wireless Access Point); (does not include configuration)	DWPO0063	Install customer provided WAP (Wireless Access Point); (does not include configuration). Must be ordered in conjunction with material component in this Section.
587	Overtime Hours - Pathway - WAP (Wireless Access Point) Enclosure	DWPO0064	Provide and install WAP (Wireless Access Point) Enclosure
588	Overtime Hours - Pathway - Install customer provided Camera (does not include configuration)	DWPO0065	Install customer provided Camera (does not include configuration). Must be ordered in conjunction with material component in this Section.
589	Overtime Hours - Pathway - Install customer provided paging speaker Drop Tile Ceiling	DWPO0066	Install customer provided paging speaker Drop Tile Ceiling. Includes installation hardware; speaker is not included Must be ordered in conjunction with material component in this Section.
590	Overtime Hours - Pathway - Unistrut slotted 7/8"	DWPO0067	Provide and install Unistrut slotted 7/8". Includes installation hardware; speaker is not included.
591	Overtime Hours - Pathway - 1" Unistrut straps	DWPO0068	Provide and install 1" Unistrut straps.
592	Overtime Hours - Pathway - 2" Unistrut straps	DWPO0069	Provide and install 2" Unistrut straps.
593	Overtime Hours - Pathway - 1" EMT sleeve (core or penetration not included)	DWPO0070	Provide and install 1" EMT sleeve (core or penetration not included).

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
594	Overtime Hours - Pathway - 2" EMT sleeve (core or penetration not included)	DWPO0071	Provide and install 2" EMT sleeve (core or penetration not included).
595	Overtime Hours - Pathway - 3" EMT sleeve (core or penetration not included)	DWPO0072	Provide and install 3" EMT sleeve (core or penetration not included).
596	Overtime Hours - Pathway - 4" EMT sleeve (core or penetration not included)	DWPO0073	Provide and install 4" EMT sleeve (core or penetration not included).
597	Overtime Hours - Pathway - 8"x8"x6" pull box NEMA R3	DWPO0074	Provide and install 8"x8"x6" pull box NEMA R3.
598	Overtime Hours - Raceway 5-foot base ivory and cover 2300BAC plastic (2 1/4" x 11/16")	OH CY0001	Provide and install raceway 5-foot base ivory and cover 2300BAC plastic (2 1/4" x 11/16").
599	Overtime Hours - Raceway Cover clip 2306	OH CY0002	Provide and install raceway Cover clip 2306.
600	Overtime Hours - Raceway Internal elbow 2317DF0	OH CY0003	Provide and install raceway Internal elbow 2317DF0.
601	Overtime Hours - Raceway External bend 2318DF0	OH CY0004	Provide and install raceway External bend 2318DF0.
602	Overtime Hours - Raceway Flat elbow 2311DF0	OH CY0005	Provide and install raceway Flat elbow 2311DF0.
603	Overtime Hours - Raceway Wire clip ivory 2300WC	OH CY0006	Provide and install raceway Wire clip ivory 2300WC.
604	Overtime Hours - Raceway Blank end fitting 2310B	OH CY0007	Provide and install raceway Blank end fitting 2310B.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
605	Overtime Hours - Raceway Entrance fitting 2310A	OHCY0008	Provide and install raceway Entrance fitting 2310A.
606	Overtime Hours - Raceway Tee 2315	OHCY0009	Provide and install raceway Tee 2315.
607	Sunday and Holiday Hours - Telco Room - MDF/IDF/MPOE - Install customer provided UPS	TDHS0001	Install customer provided UPS. Must be ordered in conjunction with a material component in this Category.
608	Sunday and Holiday Hours - Telco Room - MDF/IDF/MPOE - Cable 48-port switch (patch cords)	TDHS0002	Install patch cords in customer provided device. Total of 48 patch cords provided and installed.
609	Sunday and Holiday Hours - Telco Room - MDF/IDF/MPOE - 7' 2-post rack	TDHS0003	Provide and install 7' 2-post rack
610	Sunday and Holiday Hours - Telco Room - MDF/IDF/MPOE - 7' 4-post rack	TDHS0004	Provide and install 7' 4-post rack
611	Sunday and Holiday Hours - Telco Room - MDF/IDF/MPOE - 36"Hx19"Wx24"D CUBE-IT Wallmount Enclosure with Plexi Door Black	TDHS0005	Provide and install 36"Hx19"Wx24"D CUBE-IT Wallmount Enclosure with Plexi Door Black
612	Sunday and Holiday Hours - Telco Room - MDF/IDF/MPOE - Fan Kit for CUBE-IT Enclosure	TDHS0006	Provide and install Fan Kit for CUBE-IT Enclosure

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
613	Sunday and Holiday Hours - Telco Room - MDF/IDF/MPOE - Filter Kit for CUBE-IT Enclosure	TDHS0007	Provide and install Filter Kit for CUBE-IT Enclosure
614	Sunday and Holiday Hours - Telco Room - MDF/IDF/MPOE - 26"Hx26"Wx8.5"D Thinline II Wallmount Hinged Door Enclosure	TDHS0008	Provide and install 26"Hx26"Wx8.5"D Thinline II Wallmount Hinged Door Enclosure
615	Sunday and Holiday Hours - Telco Room - MDF/IDF/MPOE - 36"Hx26"Wx8.5"D Thinline II Wallmount Hinged Door Enclosure	TDHS0009	Provide and install 36"Hx26"Wx8.5"D Thinline II Wallmount Hinged Door Enclosure
616	Sunday and Holiday Hours - Telco Room - MDF/IDF/MPOE - Thinline II Duplex Receptacle Surge-Suppressed	TDHS0010	Provide and install Thinline II Duplex Receptacle Surge-Suppressed
617	Sunday and Holiday Hours - Telco Room - MDF/IDF/MPOE - Thinline II Intelligent Fan kit	TDHS0011	Provide and install Thinline II Intelligent Fan kit
618	Sunday and Holiday Hours - Telco Room - MDF/IDF/MPOE - 14.5"Hx23.63"Wx17.7"D SmartRack Low Profile 6U Locking Wall Enclosure	TDHS0012	14.5"Hx23.63"Wx17.7"D SmartRack Low Profile 6U Locking Wall Enclosure

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
619	Sunday and Holiday Hours - Telco Room - MDF/IDF/MPOE - Install customer provided rack	TDHS0013	Install customer provided rack. Must be ordered in conjunction with a material component in this Category.
620	Sunday and Holiday Hours - Telco Room - MDF/IDF/MPOE - Horizontal wire manager	TDHS0014	Install and provide horizontal wire manager
621	Sunday and Holiday Hours - Telco Room - MDF/IDF/MPOE - Vertical wire manager	TDHS0015	Install and provide vertical wire manager
622	Sunday and Holiday Hours - Telco Room - MDF/IDF/MPOE - Install customer provided wire manager	TDHS0016	Install customer provided wire manager. Must be ordered in conjunction with a material component in this Category.
623	Sunday and Holiday Hours - Telco Room - MDF/IDF/MPOE - Shelf (single sided 3U)	TDHS0017	Provide and Install each shelf (single sided 3U).
624	Sunday and Holiday Hours - Telco Room - MDF/IDF/MPOE - Customer provided shelf	TDHS0018	Install customer provided shelf. Must be ordered in conjunction with a material component in this section.
625	Sunday and Holiday Hours - Telco Room - MDF/IDF/MPOE - Hinged Wall Bracket	TDHS0019	Provide and install Hinged Wall Bracket.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
626	Sunday and Holiday Hours - Telco Room - MDF/IDF/MPOE - 4' x 4' x 3/4" painted plywood backboard	TDHS0020	Provide and install 4' x 4' x 3/4" painted plywood backboard – fire rated.
627	Sunday and Holiday Hours - Telco Room - MDF/IDF/MPOE - 4' x 8' x 3/4" painted plywood backboard	TDHS0021	Provide and install 4' x 8' x 3/4" painted plywood backboard – fire rated.
628	Sunday and Holiday Hours - Telco Room - MDF/IDF/MPOE - Power strip (4 outlets)	TDHS0022	Provide and Install each power strip (4 outlets). Standard plug in power strip.
629	Sunday and Holiday Hours - Telco Room - MDF/IDF/MPOE - 10' of 12" ladder rack and support hardware	TDHS0023	Provide and install up to 10' of 12" ladder rack and support hardware.
630	Sunday and Holiday Hours - Telco Room - MDF/IDF/MPOE - Communication pole 10 feet	TDHS0024	Provide and install Communication pole 10 feet. Matches existing modular furniture manufacturer if available.
631	Sunday and Holiday Hours - Telco Room - MDF/IDF/MPOE - One (1) 20 Amp Duplex Outlet within 75' of Existing Panel	TDHS0025	Provide and install one (1) 20 Amp Duplex Outlet within 75' of Existing Panel. Not to exceed price. IPR available for reduced rates.
632	Sunday and Holiday Hours - Backbone Cabling Placing and Consumables - 6-strand MM ISP fiber	CBRH0001	Provide and install 6-strand MM ISP fiber. 50 μ or 62.5 μ fiber plenum. Pull line in place (does not include pathway, termination hardware, terminating or testing).

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
633	Sunday and Holiday Hours - Backbone Cabling Placing and Consumables - 6-strand SM ISP fiber	CBRH0002	Provide and install 6-strand SM ISP fiber. 8.3 μ fiber plenum. Pull line in place (does not include pathway, termination hardware, terminating or testing).
634	Sunday and Holiday Hours - Backbone Cabling Placing and Consumables - 12-strand MM ISP fiber	CBRH0003	Provide and install 12-strand MM ISP fiber. 50 μ or 62.5 μ fiber plenum. Pull line in place (does not include pathway, termination hardware, terminating or testing).
635	Sunday and Holiday Hours - Backbone Cabling Placing and Consumables - 12-strand SM ISP Fiber	CBRH0004	Provide and install 12-strand SM ISP fiber. 8.3 μ fiber plenum. Pull line in place (does not include pathway, termination hardware, terminating or testing).
636	Sunday and Holiday Hours - Backbone Cabling Placing and Consumables - 6-strand MM Indoor/Outdoor Fiber	CBRH0005	Provide and install 6-strand MM Indoor/Outdoor fiber. Pull line in place (does not include pathway, termination hardware, terminating or testing).
637	Sunday and Holiday Hours - Backbone Cabling Placing and Consumables - 6-strand SM Indoor/Outdoor Fiber	CBRH0006	Provide and install 6-strand SM Indoor/Outdoor fiber. Pull line in place (does not include pathway, termination hardware, terminating or testing).
638	Sunday and Holiday Hours - Backbone Cabling Placing and Consumables - 12-strand MM Indoor/Outdoor Fiber	CBRH0007	Provide and install 12-strand MM Indoor/Outdoor fiber. Pull line in place (does not include pathway, termination hardware, terminating or testing).
639	Sunday and Holiday Hours - Backbone Cabling Placing and Consumables - 12-strand SM Indoor/Outdoor Fiber	CBRH0008	Provide and install 12-strand SM Indoor/Outdoor fiber. Pull line in place (does not include pathway, termination hardware, terminating or testing).

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
640	Sunday and Holiday Hours - Backbone Cabling Placing and Consumables - 6-strand SM OSP Loose Tube underground fiber	CBRH0009	Provide and install 6-strand SM OSP Loose Tube underground fiber. Pull line in place (does not include pathway, termination hardware, terminating or testing).
641	Sunday and Holiday Hours - Backbone Cabling Placing and Consumables - 12-strand SM OSP Loose Tube underground fiber	CBRH0010	Provide and install 12-strand SM OSP Loose Tube underground fiber. Pull line in place (does not include pathway, termination hardware, terminating or testing).
642	Sunday and Holiday Hours - Backbone Cabling Placing and Consumables - 24-strand SM OSP Loose Tube underground fiber	CBRH0011	Provide and install 24-strand SM OSP Loose Tube underground fiber. Pull line in place (does not include pathway, termination hardware, terminating or testing).
643	Sunday and Holiday Hours - Backbone Cabling Placing and Consumables - 48-strand SM OSP Loose Tube underground fiber	CBRH0012	Provide and install 48-strand SM OSP Loose Tube underground fiber. Pull line in place (does not include pathway, termination hardware, terminating or testing).
644	Sunday and Holiday Hours - Backbone Cabling Placing and Consumables - 24-strand SM Indoor/Outdoor Fiber	CBRH0013	Provide and install 24-strand SM Indoor/Outdoor fiber. Pull line in place (does not include pathway, termination hardware, terminating or testing)
645	Sunday and Holiday Hours - Backbone Cabling Placing and Consumables - 48-strand SM Indoor/Outdoor fiber	CBRH0014	Provide and install 48-strand SM Indoor/Outdoor fiber. Pull line in place (does not include pathway, termination hardware, terminating or testing)

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
646	Sunday and Holiday Hours - Backbone Cabling Placing and Consumables - 6-strand Fanout Kit SingleMode	CBRH0015	Provide and install 6-strand Fanout Kit SingleMode
647	Sunday and Holiday Hours - Backbone Cabling Placing and Consumables - 6-strand Fanout Kit MultiMode	CBRH0016	Provide and install 6-strand Fanout Kit MultiMode
648	Sunday and Holiday Hours - Backbone Cabling Placing and Consumables - 12-strand Fanout Kit SingleMode	CBRH0017	Provide and install 12-strand Fanout Kit SingleMode
649	Sunday and Holiday Hours - Backbone Cabling Placing and Consumables - 12-strand Fanout Kit MultiMode	CBRH0018	Provide and install 12-strand Fanout Kit MultiMode
650	Sunday and Holiday Hours - Backbone Cabling Placing and Consumables - 1" innerduct underground in existing duct	CBRH0019	Provide and install 1" innerduct underground in existing duct. Override situations will be accessed by contractor for viability. Pull line in place (does not include pathway, termination hardware, terminating or testing).
651	Sunday and Holiday Hours - Backbone Cabling Placing and Consumables - 1 1/4" innerduct underground in existing duct	CBRH0020	Provide and install 1 1/4" innerduct underground in existing duct. Override situations will be accessed by contractor for viability. Pull line in place (does not include pathway, termination hardware, terminating or testing).

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
652	Sunday and Holiday Hours - Backbone Cabling Placing and Consumables - 25-pair copper ISP	CBRH0021	Provide and install 25-pair copper ISP. Plenum Pull line in place (does not include pathway, termination hardware, terminating or testing).
653	Sunday and Holiday Hours - Backbone Cabling Placing and Consumables - 25-pair copper underground OSP	CBRH0022	Provide and install 25-pair copper underground OSP. Pull line in place (does not include pathway, termination hardware, terminating or testing).
654	Sunday and Holiday Hours - Backbone Cabling Placing and Consumables - 50-pair copper ISP	CBRH0023	Provide and install 50-pair copper ISP. Plenum Pull line in place (does not include pathway, termination hardware, terminating or testing).
655	Sunday and Holiday Hours - Backbone Cabling Placing and Consumables - 50-pair copper underground OSP	CBRH0024	Provide and install 50-pair copper underground OSP Pull line in place (does not include pathway, termination hardware, terminating or testing).
656	Sunday and Holiday Hours - Backbone Cabling Placing and Consumables - 100-pair copper ISP	CBRH0025	Provide and install 100-pair copper ISP. Plenum Pull line in place (does not include pathway, termination hardware, terminating or testing).
657	Sunday and Holiday Hours - Backbone Cabling Placing and Consumables - 100-pair copper underground OSP	CBRH0026	Provide and install 100-pair copper underground OSP. Pull line in place (does not include pathway, termination hardware, terminating or testing).

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
658	Sunday and Holiday Hours - Backbone and Circuit Extension Cable Placing and Consumables - 300' Cat 6 copper ISP circuit extension	CRKH0001	Provide and install up to 300' Cat 6 copper ISP circuit extension. Plenum Pull line in place (does not include pathway, termination hardware, terminating or testing).
659	Sunday and Holiday Hours - Backbone and Circuit Extension Cable Placing and Consumables - 300' Cat 6 copper OSP circuit extension	CRKH0002	Provide and install up to 300' Cat 6 copper OSP circuit extension Pull line in place (does not include pathway, termination hardware, terminating or testing).
660	Sunday and Holiday Hours - Backbone and Circuit Extension Cable Placing and Consumables - 300' 25-pair copper ISP circuit extension	CRKH0003	Provide and install up to 300' 25-pair copper ISP circuit extension. Plenum Pull line in place (does not include pathway, termination hardware, terminating or testing).
661	Sunday and Holiday Hours - Backbone and Circuit Extension Cable Placing and Consumables - 300' 25-pair copper OSP circuit extension	CRKH0004	Provide and install up to 300' 25-pair copper OSP circuit extension Pull line in place (does not include pathway, termination hardware, terminating or testing).
662	Sunday and Holiday Hours - Backbone and Circuit Extension Cable Placing and Consumables - 300' RG58 COAX ISP	CRKH0005	Provide and install up to 300' RG58 COAX ISP. Plenum Pull line in place (does not include pathway, termination hardware, terminating or testing)
663	Sunday and Holiday Hours - Backbone and Circuit Extension Cable Placing and Consumables - 300' RG62 COAX ISP	CRKH0006	Provide and install up to 300' RG62 COAX ISP. Plenum Pull line in place (does not include pathway, termination hardware, terminating or testing)

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
664	Sunday and Holiday Hours - Backbone and Circuit Extension Cable Placing and Consumables - 300' RG6 COAX ISP	CRKH0007	Provide and install up to 300' RG6 COAX ISP. Plenum Pull line in place (does not include pathway, termination hardware, terminating or testing)
665	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - 25-pair protector	CCKH0001	Provide and install 25-pair protector. Gas modules or match existing. Terminating and testing not included.
666	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - 50-pair protector	CCKH0002	Provide and install 50-pair protector. Gas modules or match existing. Terminating and testing not included.
667	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - 100-pair protector	CCKH0003	Provide and install 100-pair protector. Gas modules or match existing. Terminating and testing not included.
668	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - 4-pair protector	CCKH0004	Provide and install 4-pair protector. Gas modules or match existing. Terminating and testing not included.
669	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - Protector modules	CCKH0005	Provide and install protector modules. Gas modules or match existing. Terminating and testing not included.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
670	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - BIX mount 250-pair	CCKH0006	Provide and install BIX mount 250-pair. Terminating and testing not included.
671	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - BIX connector	CCKH0007	Provide and install BIX connector Terminating and testing not included.
672	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - BIX ring	CCKH0008	Provide and install BIX ring. Terminating and testing not included.
673	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - 66-type Block 50 pair	CCKH0009	Provide and install 66-type Block 50 pair. Terminating and testing not included.
674	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - 110-style block 100 pair kit	CCKH0010	Provide and install 110-style block 100 pair kit. Includes C4 or C5 clips Terminating and testing not included.
675	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - Rack Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber	CCKH0011	Provide and install Rack Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber. Cabinet only. Panels purchased separately. Terminating and testing not included.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
676	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - Rack Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber	CCKH0012	Provide and install Rack Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber. Cabinet only. Panels purchased separately. Terminating and testing not included.
677	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - Wall Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber	CCKH0013	Provide and install Wall Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber. Cabinet only. Panels purchased separately. Terminating and testing not included.
678	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - Wall Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber	CCKH0014	Provide and install Wall Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber. Cabinet only. Panels purchased separately. Terminating and testing not included.
679	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - 6-strand connector panel MM 50/125 SC	CCKH0015	Provide and Install 6-strand connector panel MM 50/125 SC. Complete with couplers. Terminating and testing not included.
680	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - 6-strand connector panel MM 50/125 LC	CCKH0016	Provide and install 6-strand connector panel MM 50/125 LC. Complete with couplers. Terminating and testing not included.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
681	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - 6-strand connector panel MM 62.5/125 SC	CCKH0017	Provide and install 6-strand connector panel MM 62.5/125 SC. Complete with couplers Terminating and testing not included.
682	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - 6-strand connector panel MM 62.5/125 LC	CCKH0018	Provide and install 6-strand connector panel MM 62.5/125 LC. Complete with couplers Terminating and testing not included.
683	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - 12-strand connector panel MM 50/125 SC	CCKH0019	Provide and install 12-strand connector panel MM 50/125 SC. Complete with couplers Terminating and testing not included.
684	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - 12-strand connector panel MM 50/125 LC	CCKH0020	Provide and install 12-strand connector panel MM 50/125 LC. Complete with couplers Terminating and testing not included.
685	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - 12-strand connector panel MM 62.5/125 SC	CCKH0021	Provide and install 12-strand connector panel MM 62.5/125 SC. Complete with couplers Terminating and testing not included.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
686	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - 12-strand connector panel MM 62.5/125 LC	CCKH0022	Provide and install 12-strand connector panel MM 62.5/125 LC, Complete with couplers Terminating and testing not included.
687	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - 6-strand connector panel SM SC	CCKH0023	Provide and install 6-strand connector panel SM SC. Complete with couplers Terminating and testing not included.
688	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - 6-strand connector panel SM LC	CCKH0024	Provide and install 6-strand connector panel SM LC. Complete with couplers Terminating and testing not included.
689	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - 12-strand connector panel SM SC	CCKH0025	Provide and install 12-strand connector panel SM SC. Complete with couplers. Terminating and testing not included.
690	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - 12-strand connector panel SM LC	CCKH0026	Provide and install 12-strand connector panel SM LC. Complete with couplers. Terminating and testing not included.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
691	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - Provide SC Compatible 50µm Multimode connector (material only)	CCKH0027	Provide SC Compatible 50µm Multimode connector (material only) Provide SC Compatible 50µm Multimode connector (material only). Provide SC Compatible 50µm Multimode connector (material only). Must be ordered with Product Identifiers REDW0006 or REDW0007 and REDW0008. Terminating and testing not included.
692	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - Provide SC Compatible 62.5µm Multimode connector (material only)	CCKH0028	Provide SC Compatible 62.5µm Multimode connector (material only). Must be ordered with Product Identifiers REDW0006 or REDW0007 and REDW0008. Terminating and testing not included.
693	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - Provide SC Compatible Single Mode connector (material only)	CCKH0029	Provide SC Compatible Single Mode connector (material only). Must be ordered with Product Identifiers REDW0006 or REDW0007 and REDW0008. Terminating and testing not included.
694	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - Provide LC Compatible 50µm Multimode connector (material only)	CCKH0030	Provide LC Compatible 50µm Multimode connector (material only). Must be ordered with Product Identifiers REDW0006 or REDW0007 and REDW0008. Terminating and testing not included.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
695	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - Provide LC Compatible 62.5µm Multimode connector (material only)	CCKH0031	Provide LC Compatible 62.5µm Multimode connector (material only). Must be ordered with Product Identifiers REDW0006 or REDW0007 and REDW0008. Terminating and testing not included.
696	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - Provide LC Compatible Single Mode connector (material only)	CCKH0032	Provide LC Compatible Single Mode connector (material only). Must be ordered with Product Identifiers REDW0006 or REDW0007 and REDW0008. Terminating and testing not included.
697	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 62.5/125 SC To SC 1 Meter Patch Cable	CCKH0033	Provide and install Multimode 62.5/125 SC To SC 1 Meter Patch Cable. Terminating and testing not included.
698	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 62.5/125 SC To SC 3 Meter Patch Cable	CCKH0034	Provide and install Multimode 62.5/125 SC To SC 3 Meter Patch Cable. Terminating and testing not included.
699	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 62.5/125 SC To SC 10 Meter Patch Cable	CCKH0035	Provide and Install Multimode 62.5/125 SC To SC 10 Meter Patch Cable. Terminating and testing not included.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
700	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 62.5/125 SC To LC 1 Meter Patch Cable	CCKH0036	Provide and install Multimode 62.5/125 SC To LC 1 Meter Patch Cable. Terminating and testing not included.
701	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 62.5/125 SC To LC 3 Meter Patch Cable	CCKH0037	Provide and install Multimode 62.5/125 SC To LC 3 Meter Patch Cable. Terminating and testing not included.
702	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 62.5/125 SC To LC 10 Meter Patch Cable	CCKH0038	Provide and install Multimode 62.5/125 SC To LC 10 Meter Patch Cable. Terminating and testing not included.
703	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 62.5/125 LC To LC 1 Meter Patch Cable	CCKH0039	Provide and install Multimode 62.5/125 LC To LC 1 Meter Patch Cable. Terminating and testing not included.
704	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 62.5/125 LC To LC 3 Meter Patch Cable	CCKH0040	Provide and install Multimode 62.5/125 LC To LC 3 Meter Patch Cable. Terminating and testing not included.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
705	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 62.5/125 LC To LC 10 Meter Patch Cable	CCKH0041	Provide and install Multimode 62.5/125 LC To LC 10 Meter Patch Cable. Terminating and testing not included.
706	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 50/125 SC To SC 1 Meter Patch Cable	CCKH0042	Provide and install Multimode 50/125 SC To SC 1 Meter Patch Cable. Terminating and testing not included.
707	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 50/125 SC To SC 3 Meter Patch Cable	CCKH0043	Provide and install Multimode 50/125 SC To SC 3 Meter Patch Cable. Terminating and testing not included.
708	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 50/125 SC To SC 10 Meter Patch Cable	CCKH0044	Provide and install Multimode 50/125 SC To SC 10 Meter Patch Cable. Terminating and testing not included.
709	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 50/125 SC To LC 1 Meter Patch Cable	CCKH0045	Provide and install Multimode 50/125 SC To LC 1 Meter Patch Cable Terminating and testing not included.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
710	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 50/125 SC To LC 3 Meter Patch Cable	CCKH0046	Provide and install Multimode 50/125 SC To LC 3 Meter Patch Cable. Terminating and testing not included.
711	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 50/125 SC To LC 10 Meter Patch Cable	CCKH0047	Provide and install Multimode 50/125 SC To LC 10 Meter Patch Cable. Terminating and testing not included.
712	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 50/125 LC To LC 1 Meter Patch Cable	CCKH0048	Provide and install Multimode 50/125 LC To LC 1 Meter Patch Cable. Terminating and testing not included.
713	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 50/125 LC To LC 3 Meter Patch Cable	CCKH0049	Provide and install Multimode 50/125 LC To LC 3 Meter Patch Cable. Terminating and testing not included.
714	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - Multimode 50/125 LC To LC 10 Meter Patch Cable	CCKH0050	Provide and install Multimode 50/125 LC To LC 10 Meter Patch Cable. Terminating and testing not included.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
715	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - Single Mode 9/125 SC To SC 1 Meter Patch Cable	CCKH0051	Provide and install Single Mode 9/125 SC To SC 1 Meter Patch Cable. Terminating and testing not included.
716	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - Single Mode 9/125 SC To SC 3 Meter Patch Cable	CCKH0052	Provide and install Single Mode 9/125 SC To SC 3 Meter Patch Cable. Terminating and testing not included.
717	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - Single Mode 9/125 SC To SC 10 Meter Patch Cable	CCKH0053	Provide and install Single Mode 9/125 SC To SC 10 Meter Patch Cable. Terminating and testing not included.
718	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - Single Mode 9/125 SC To LC 1 Meter Patch Cable	CCKH0054	Provide and install Single Mode 9/125 SC To LC 1 Meter Patch Cable. Terminating and testing not included.
719	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - Single Mode 9/125 SC To LC 3 Meter Patch Cable	CCKH0055	Provide and install Single Mode 9/125 SC To LC 3 Meter Patch Cable. Terminating and testing not included.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
720	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - Single Mode 9/125 SC To LC 10 Meter Patch Cable	CCKH0056	Provide and install Single Mode 9/125 SC To LC 10 Meter Patch Cable. 'Terminating and testing not included.
721	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - Single Mode 9/125 LC To LC 1 Meter Patch Cable	CCKH0057	Provide and install Single Mode 9/125 LC To LC 1 Meter Patch Cable. Terminating and testing not included.
722	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - Single Mode 9/125 LC To LC 3 Meter Patch Cable	CCKH0058	Provide and install Single Mode 9/125 LC To LC 3 Meter Patch Cable. Terminating and testing not included.
723	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - Single Mode 9/125 LC To LC 10 Meter Patch Cable	CCKH0059	Provide and install Single Mode 9/125 LC To LC 10 Meter Patch Cable. Terminating and testing not included.
724	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - Provide and install 12 pair protector	CCKH0060	Provide and install a 12-pair protector.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
725	Sunday and Holiday Hours - Backbone and Circuit Extension - Termination Hardware - Cross Connect at TTB and OR PABX.	CCKH0061	Provide labor and material to cross connect cabling at the TTB and/or the PABX (private automatic branch exchange).
726	Sunday and Holiday Hours - Backbone and Circuit Extension Termination and/or Testing - Copper cable termination per pair (25 pair and larger)	DCTH0001	Labor and consumables to terminate and test media. Must be ordered in conjunction with material component in this Section.
727	Sunday and Holiday Hours - Backbone and Circuit Extension Termination and/or Testing - Copper cable splicing per pair (25 pair and larger)	DCTH0002	Labor and consumables to splice and test media. Must be ordered in conjunction with material component in this Section.
728	Sunday and Holiday Hours - Backbone and Circuit Extension Termination and/or Testing - Copper cable testing per pair (25 pair and larger)	DCTH0003	Labor to perform continuity test. Must be ordered in conjunction with material component in this Section.
729	Sunday and Holiday Hours - Backbone and Circuit Extension Termination and/or Testing - Tone, locate, test, tag and document Circuit	DCTH0004	Test and Tone on both sides of a single circuit, copper pair, between termination points. Must be ordered in conjunction with material component in this Section.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
730	Sunday and Holiday Hours - Backbone and Circuit Extension Termination and/or Testing - Install Fiber termination connector	DCTH0006	Install Fiber termination connector - Labor only. Must be ordered in conjunction with material component in this Section.
731	Sunday and Holiday Hours - Backbone and Circuit Extension Termination and/or Testing - Splice Fiber per strand	DCTH0007	Splice Fiber per strand. Labor only - SM or MM. Must be ordered in conjunction with material component in this Section.
732	Sunday and Holiday Hours - Backbone and Circuit Extension Termination and/or Testing - Fiber testing per strand	DCTH0008	OTDR Must be ordered in conjunction with material component in this Section.
733	Sunday and Holiday Hours - Backbone and Circuit Extension Termination and/or Testing - Provide 4-pair CAT5e termination and testing	DCTH0009	Labor only. Includes BICSI standard testing (end to end). Must be ordered in conjunction with material component in this Section.
734	Sunday and Holiday Hours - Backbone and Circuit Extension Termination and/or Testing - Terminate and test 4-pair Cat 6	DCTH0010	Labor only. Includes BICSI standard testing (end to end). Must be ordered in conjunction with material component in this Section.
735	Sunday and Holiday Hours - Backbone and Circuit Extension Termination and/or Testing - Terminate 4-pair Cat 6	DCTH0011	Reterminate one end only jack or patch panel Must be ordered in conjunction with material component in this Section

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
736	Sunday and Holiday Hours - Backbone and Circuit Extension Termination and/or Testing - Test 4-pair Cat 6	DCTH0012	Test only Includes BICSI standard testing (end to end) Must be ordered in conjunction with material component in this Section
737	Sunday and Holiday Hours - Backbone and Circuit Extension Termination and/or Testing - Terminate and test 4-pair Cat 6A	DCTH0013	Labor only. Includes BICSI standard testing (end to end) Must be ordered in conjunction with material component in this Section
738	Sunday and Holiday Hours - Backbone and Circuit Extension Termination and/or Testing - Terminate 4-pair Cat 6A	DCTH0014	Reterminate one end only jack or patch panel Must be ordered in conjunction with material component in this Section
739	Sunday and Holiday Hours - Backbone and Circuit Extension Termination and/or Testing - Test 4-pair Cat 6A	DCTH0015	Test only Includes BICSI standard testing (end to end) Must be ordered in conjunction with material component in this Section
740	Sunday and Holiday Hours - Station Cabling, Cable Placement and Consumables Only - pull line in place - Single 4-pair Cat 6 PVC cable for voice or data application	SVKH0001	Provide and Install single 4-pair Cat 6 PVC cable for voice or data application. Does not include pathway or termination hardware.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
741	Sunday and Holiday Hours - Station Cabling, Cable Placement and Consumables Only - pull line in place - Single 4-pair Cat 6 plenum cable for voice or data application	SVKH0002	Provide and Install single 4-pair Cat 6 plenum cable for voice or data application. Does not include pathway or termination hardware.
742	Sunday and Holiday Hours - Station Cabling, Cable Placement and Consumables Only - pull line in place - Single 4-pair Cat 6 OSP cable for voice or data application	SVKH0003	Provide and Install single 4-pair Cat 6 OSP cable for voice or data application. Does not include pathway or termination hardware.
743	Sunday and Holiday Hours - Station Cabling, Cable Placement and Consumables Only - pull line in place - Single 4-pair Cat 6A PVC cable for voice or data application	SVKH0004	Provide and Install single 4-pair Cat 6A PVC cable for voice or data application. Does not include pathway or termination hardware.
744	Sunday and Holiday Hours - Station Cabling, Cable Placement and Consumables Only - pull line in place - Single 4-pair Cat 6A plenum cable for voice or data application	SVKH0005	Provide and Install single 4-pair Cat 6A plenum cable for voice or data application. Does not include pathway or termination hardware.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
745	Sunday and Holiday Hours - Station Cabling, Cable Placement and Consumables Only - pull line in place - Single 4-pair Cat 6A OSP cable for voice or data application	SVKH0006	Provide and Install single 4-pair Cat 6A OSP cable for voice or data application. Does not include pathway or termination hardware.
746	Sunday and Holiday Hours - Additional Components (Material and Labor to install) - One 24-port unloaded Cat 5E/6/6A Patch Panel	HCMA0001	Provide and install one 24-port unloaded Cat 6A Patch Panel.
747	Sunday and Holiday Hours - Additional Components (Material and Labor to install) - One 48-port unloaded Cat 5E/6/6A Patch Panel	HCMA0002	Provide and install one 48-port unloaded Cat 6A Patch Panel.
748	Sunday and Holiday Hours - Additional Components (Material and Labor to install) - New 24-port Cat 6 patch panel	HCMA0003	Provide and install new 24-port Cat 6 patch panel
749	Sunday and Holiday Hours - Additional Components (Material and Labor to install) - New 48-port Cat 6 patch panel	HCMA0004	Provide and install new 48-port Cat 6 patch panel.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
750	Sunday and Holiday Hours - Additional Components (Material and Labor to install) - New 24-port Cat 6A patch panel	HCMA0005	Provide and install new 24-port Cat 6A patch panel.
751	Sunday and Holiday Hours - Additional Components (Material and Labor to install) - New 48-port Cat 6A patch panel	HCMA0006	Provide and install new 48-port Cat 6A patch panel.
752	Sunday and Holiday Hours - Additional Components (Material and Labor to install) - New 12-port Cat 6 patch panel	HCMA0007	Provide and install new 12-port Cat 6 patch panel.
753	Sunday and Holiday Hours - Additional Components (Material and Labor to install) - Face plate plastic	HCMA0008	Provide and install face plate plastic.
754	Sunday and Holiday Hours - Additional Components (Material and Labor to install) - Modular furniture device plate	HCMA0009	Provide and install modular furniture device plate.
755	Sunday and Holiday Hours - Additional Components (Material and Labor to install) - 4-port stainless steel faceplate	HCMA0010	Provide and install 4-port stainless steel faceplate.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
756	Sunday and Holiday Hours - Additional Components (Material and Labor to install) - 6-port stainless steel faceplate	HCMA0011	Provide and install 6-port stainless steel faceplate.
757	Sunday and Holiday Hours - Additional Components (Material and Labor to install) - Cat 6 jack insert	HCMA0012	Provide and install Cat 6 jack insert.
758	Sunday and Holiday Hours - Additional Components (Material and Labor to install) - Cat 6A jack insert	HCMA0013	Provide and install Cat 6A jack insert.
759	Sunday and Holiday Hours - Additional Components (Material and Labor to install) - 3' Cat 5e patch cord	HCMA0014	Provide and install 3' Cat 5e patch cord.
760	Sunday and Holiday Hours - Additional Components (Material and Labor to install) - 5' Cat 5e patch cord	HCMA0015	Provide and install 5' Cat 5e patch cord.
761	Sunday and Holiday Hours - Additional Components (Material and Labor to install) - 7' Cat 5e patch cord	HCMA0016	Provide and install 7' Cat 5e patch cord.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
762	Sunday and Holiday Hours - Additional Components (Material and Labor to install) - 10' Cat 5e patch cord	HCMA0017	Provide and install 10' Cat 5e patch cord.
763	Sunday and Holiday Hours - Additional Components (Material and Labor to install) - 3' Cat 6 patch cord	HCMA0018	Provide and install 3' Cat 6 patch cord.
764	Sunday and Holiday Hours - Additional Components (Material and Labor to install) - 5' Cat 6 patch cord	HCMA0019	Provide and install 5' Cat 6 patch cord.
765	Sunday and Holiday Hours - Additional Components (Material and Labor to install) - 7' Cat 6 patch cord	HCMA0020	Provide and install 7' Cat 6 patch cord.
766	Sunday and Holiday Hours - Additional Components (Material and Labor to install) - 10' Cat 6 patch cord	HCMA0021	Provide and install 10' Cat 6 patch cord.
767	Sunday and Holiday Hours - Additional Components (Material and Labor to install) - 15' Cat 6 patch cord	HCMA0022	Provide and install 15' Cat 6 patch cord.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
768	Sunday and Holiday Hours - Additional Components (Material and Labor to install) - 25' Cat 6 patch cord	HCMA0023	Provide and install 25' Cat 6 patch cord.
769	Sunday and Holiday Hours - Additional Components (Material and Labor to install) - Velcro Ties (roll 25 yards)	HCMA0024	Provide and install Velcro Ties (roll 25 yards).
770	Sunday and Holiday Hours - Additional Components (Material and Labor to install) - Fiber splice closure	HCMA0025	Provide and install Fiber splice closure. OSP rated.
771	Sunday and Holiday Hours - Additional Components (Material and Labor to install) - Fiber splice tray	HCMA0026	Provide and install Fiber splice tray.
772	Sunday and Holiday Hours - Additional Components (Material and Labor to install) - Copper splice case 4.0x25	HCMA0027	Provide and install Copper splice case 4.0x25. OSP rated.
773	Sunday and Holiday Hours - Additional Components (Material and Labor to install) - Copper splice case 6.5x28	HCMA0028	Provide and install Copper splice case 6.5x28. OSP rate.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
774	Sunday and Holiday Hours - Additional Components (Material and Labor to install) - Provide Copper splice module 25 pair (material only)	HCMA0029	Provide Copper splice module 25 pair (material only).
775	Sunday and Holiday Hours - Pathway - Rod & rope conduit	HHEP0001	Pull string or rope provided, rope will be sized appropriately to conduit size.
776	Sunday and Holiday Hours - Pathway - Rod, rope and place up to three (3) 1" innerducts in same conduit	HHEP0002	Provide rod, rope and place up to three (3) 1" innerducts in the same conduit.
777	Sunday and Holiday Hours - Pathway - One stick (10') of 1" EMT & three (3) 2-hole straps	HHEP0003	Provide and install one stick (10') of 1" EMT & three (3) 2-hole straps.
778	Sunday and Holiday Hours - Pathway - One stick (10') of 1 1/4" EMT & three (3) 2-hole straps	HHEP0004	Provide and install one stick (10') of 1 1/4" EMT & three (3) 2-hole straps.
779	Sunday and Holiday Hours - Pathway - One stick (10') of 2" EMT & three (3) 2-hole straps	HHEP0005	Provide and install one stick (10') of 2" EMT & three (3) 2-hole straps.
780	Sunday and Holiday Hours - Pathway - One stick (10') of 1" Rigid & three (3) 2-hole straps	HHEP0006	Provide and install one stick (10') of 1" Rigid & three (3) 2-hole straps.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
781	Sunday and Holiday Hours - Pathway - One stick (10') of 1 1/4" Rigid & three (3) 2-hole straps	HHEP0007	Provide and install one stick (10') of 1 1/4" Rigid & three (3) 2-hole straps.
782	Sunday and Holiday Hours - Pathway - One stick (10') of 2" Rigid & three (3) 2-hole straps	HHEP0008	Provide and install one stick (10') of 2" Rigid & three (3) 2-hole straps.
783	Sunday and Holiday Hours - Pathway - One stick (10') of 3" EMT & three (3) 2-hole straps	HHEP0009	Provide and install one stick (10') of 3" EMT & three (3) 2-hole straps.
784	Sunday and Holiday Hours - Pathway - One stick (10') of 4" EMT & three (3) 2-hole straps	HHEP0010	Provide and install one stick (10') of 4" EMT & three (3) 2-hole straps.
785	Sunday and Holiday Hours - Pathway - One Stick (10') of 2" SCH 80 PVC	HHEP0011	Provide and install one stick (10') of 2" SCH 80 PVC & three (3) 2-hole straps.
786	Sunday and Holiday Hours - Pathway - One Stick (10') of 4" SCH 80 PVC	HHEP0012	Provide and install one stick (10') of 4" SCH 80 PVC & three (3) 2-hole straps.
787	Sunday and Holiday Hours - Pathway - One 1" EMT Stub up from device box to above ceiling including straps, connector and bushing	HHEP0013	Provide and install one 1" EMT Stub up from device box to above ceiling including straps, connector and bushing.
788	Sunday and Holiday Hours - Pathway - Surface mount box	HHEP0014	Provide and install Surface mount box.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
789	Sunday and Holiday Hours - Pathway - 1" 2-hole strap, EMT	HHEP0015	Provide and install 1" 2-hole strap, EMT.
790	Sunday and Holiday Hours - Pathway - 1" bushing, EMT	HHEP0016	Provide and install 1" bushing, EMT.
791	Sunday and Holiday Hours - Pathway - 1" compression connector, EMT	HHEP0017	Provide and install 1" compression connector, EMT.
792	Sunday and Holiday Hours - Pathway - 1" compression coupler, EMT	HHEP0018	Provide and install 1" compression coupler, EMT.
793	Sunday and Holiday Hours - Pathway - 1" Chase Nipple	HHEP0019	Provide and install 1" Chase Nipple.
794	Sunday and Holiday Hours - Pathway - 1" Unistrut clamp, EMT	HHEP0020	Provide and install 1" Unistrut clamp, EMT.
795	Sunday and Holiday Hours - Pathway - 2" 2-hole strap, EMT	HHEP0021	Provide and install 2" 2-hole strap, EMT.
796	Sunday and Holiday Hours - Pathway - 2" bushing, EMT	HHEP0022	Provide and install 2" bushing, EMT.
797	Sunday and Holiday Hours - Pathway - 2" compression connector, EMT	HHEP0023	Provide and install 2" compression connector, EMT.
798	Sunday and Holiday Hours - Pathway - 2" compression coupler, EMT	HHEP0024	Provide and install 2" compression coupler, EMT.
799	Sunday and Holiday Hours - Pathway - 2" Chase Nipple	HHEP0025	Provide and install 2" Chase Nipple.
800	Sunday and Holiday Hours - Pathway - 2" Unistrut clamp, EMT	HHEP0026	Provide and install 2" Unistrut clamp, EMT.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
801	Sunday and Holiday Hours - Pathway - 3" 2-hole strap, EMT	HHEP0027	Provide and install 3" 2-hole strap, EMT.
802	Sunday and Holiday Hours - Pathway - 3" bushing, EMT	HHEP0028	Provide and install 3" bushing, EMT.
803	Sunday and Holiday Hours - Pathway - Provide and install 3" compression connector, EMT	HHEP0029	Provide and install 3" compression connector, EMT.
804	Sunday and Holiday Hours - Pathway - 3" compression coupler, EMT	HHEP0030	Provide and install 3" compression coupler, EMT.
805	Sunday and Holiday Hours - Pathway - 3" Unistrut clamp, EMT	HHEP0031	Provide and install 3" Unistrut clamp, EMT.
806	Sunday and Holiday Hours - Pathway - 4" 2-hole strap, EMT	HHEP0032	Provide and install 4" 2-hole strap, EMT.
807	Sunday and Holiday Hours - Pathway - 4" bushing, EMT	HHEP0033	Provide and install 4" bushing, EMT.
808	Sunday and Holiday Hours - Pathway - 4" compression connector, EMT	HHEP0034	Provide and install 4" compression connector, EMT.
809	Sunday and Holiday Hours - Pathway - 4" compression coupler, EMT	HHEP0035	Provide and install 4" compression coupler, EMT.
810	Sunday and Holiday Hours - Pathway - 4" Unistrut clamp, EMT	HHEP0036	Provide and install 4" Unistrut clamp, EMT.
811	Sunday and Holiday Hours - Pathway - 4" Chase Nipple	HHEP0037	Provide and install 4" Chase Nipple.
812	Sunday and Holiday Hours - Pathway - 1" 2-hole strap, Rigid	HHEP0038	Provide and install 1" 2-hole strap, Rigid.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
813	Sunday and Holiday Hours - Pathway - 1" bushing, Rigid	HHEP0039	Provide and install 1" bushing, Rigid.
814	Sunday and Holiday Hours - Pathway - 1" compression connector, Rigid	HHEP0040	Provide and install 1" compression connector, Rigid.
815	Sunday and Holiday Hours - Pathway - 1" compression coupler, Rigid	HHEP0041	Provide and install 1" compression coupler, Rigid.
816	Sunday and Holiday Hours - Pathway - 1" Unistrut clamp, Rigid	HHEP0042	Provide and install 1" Unistrut clamp, Rigid.
817	Sunday and Holiday Hours - Pathway - 2" 2-hole strap, Rigid	HHEP0043	Provide and install 2" 2-hole strap, Rigid.
818	Sunday and Holiday Hours - Pathway - 2" bushing, Rigid	HHEP0044	Provide and install 2" bushing, Rigid.
819	Sunday and Holiday Hours - Pathway - 2" compression connector, Rigid	HHEP0045	Provide and install 2" compression connector, Rigid.
820	Sunday and Holiday Hours - Pathway - 2" compression coupler, Rigid	HHEP0046	Provide and install 2" compression coupler, Rigid.
821	Sunday and Holiday Hours - Pathway - 2" Unistrut clamp, Rigid	HHEP0047	Provide and install 2" Unistrut clamp, Rigid.
822	Sunday and Holiday Hours - Pathway - 2" threaded connector, PVC	HHEP0048	Provide and install 2" threaded connector, PVC
823	Sunday and Holiday Hours - Pathway - 2" coupler, PVC	HHEP0049	Provide and install 2" coupler, PVC

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
824	Sunday and Holiday Hours - Pathway - 4" threaded connector, PVC	HHEP0050	Provide and install 4" threaded connector, PVC
825	Sunday and Holiday Hours - Pathway - 4" coupler, PVC	HHEP0051	Provide and install 4" coupler, PVC
826	Sunday and Holiday Hours - Pathway - 2" J-Hook w/multipurpose clip	HHEP0052	Provide and install 2" J-Hook w/multipurpose clip.
827	Sunday and Holiday Hours - Pathway - 1" J-Hook w/multipurpose clip	HHEP0053	Provide and install 1" J-Hook w/multipurpose clip
828	Sunday and Holiday Hours - Pathway - 3" J-Hook w/multipurpose clip	HHEP0054	Provide and install 3" J-Hook w/multipurpose clip
829	Sunday and Holiday Hours - Pathway - Pencil Rod (for J-Hook mounting)	HHEP0055	Provide and install Pencil Rod (for J-Hook mounting)
830	Sunday and Holiday Hours - Pathway - Stringer wire (for j-hook mounting)	HHEP0056	Provide and install Stringer wire (for j-hook mounting)
831	Sunday and Holiday Hours - Pathway - Bell box (raco 5387-0)	HHEP0057	Provide and install Bell box (raco 5387-0).
832	Sunday and Holiday Hours - Pathway - 8"x8"x6" pull box NEMA 1	HHEP0058	Provide and install 8"x8"x6" pull box NEMA 1.
833	Sunday and Holiday Hours - Pathway - 12"x12"x8" NEMA 1 junction box NEMA 1	HHEP0059	Provide and install 12"x12"x8" NEMA 1 junction box NEMA 1.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
834	Sunday and Holiday Hours - Pathway - 12"x12"x8" NEMA 1 junction box NEMA 3	HHEP0060	Provide and install 12"x12"x8" NEMA 1 junction box NEMA 3.
835	Sunday and Holiday Hours - Pathway - 18"x18"x8" NEMA 3 junction box	HHEP0061	Provide and install 18"x18"x8" NEMA 3 junction box
836	Sunday and Holiday Hours - Pathway - Install customer provided WAP (Wireless Access Point); (does not include configuration)	HHEP0063	Install customer provided WAP (Wireless Access Point); (does not include configuration).
837	Sunday and Holiday Hours - Pathway - WAP (Wireless Access Point) Enclosure	HHEP0064	Provide and install WAP (Wireless Access Point) Enclosure
838	Sunday and Holiday Hours - Pathway - Install customer provided Camera (does not include configuration)	HHEP0065	Install customer provided Camera (does not include configuration). Must be ordered in conjunction with material component in this Section.
839	Sunday and Holiday Hours - Pathway - Install customer provided paging speaker Drop Tile Ceiling	HHEP0066	Install customer provided paging speaker Drop Tile Ceiling. Includes installation hardware; speaker is not included. Must be ordered in conjunction with material component in this Section.
840	Sunday and Holiday Hours - Pathway - Unistrut slotted 7/8"	HHEP0067	Provide and install Unistrut slotted 7/8". Includes installation hardware; speaker is not included.
841	Sunday and Holiday Hours - Pathway - 1" Unistrut straps	HHEP0068	Provide and install 1" Unistrut straps.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
842	Sunday and Holiday Hours - Pathway - 2" Unistrut straps	HHEP0069	Provide and install 2" Unistrut straps.
843	Sunday and Holiday Hours - Pathway - 1" EMT sleeve (core or penetration not included)	HHEP0070	Provide and install 1" EMT sleeve (core or penetration not included).
844	Sunday and Holiday Hours - Pathway - 2" EMT sleeve (core or penetration not included)	HHEP0071	Provide and install 2" EMT sleeve (core or penetration not included).
845	Sunday and Holiday Hours - Pathway - 3" EMT sleeve (core or penetration not included)	HHEP0072	Provide and install 3" EMT sleeve (core or penetration not included).
846	Sunday and Holiday Hours - Pathway - 4" EMT sleeve (core or penetration not included)	HHEP0073	Provide and install 4" EMT sleeve (core or penetration not included).
847	Sunday and Holiday Hours - Pathway - 8"x8"x6" pull box NEMA R3	HHEP0074	Provide and install 8"x8"x6" pull box NEMA R3.
848	Sunday and Holiday Hours - Raceway 5-foot base ivory and cover 2300BAC plastic (2 1/4" x 1 1/16")	HCWA0001	Provide and install raceway 5-foot base ivory and cover 2300BAC plastic (2 1/4" x 1 1/16").
849	Sunday and Holiday Hours - Raceway Cover clip 2306	HCWA0002	Provide and install raceway Cover clip 2306.
850	Sunday and Holiday Hours - Raceway Internal elbow 2317DF0	HCWA0003	Provide and install raceway Internal elbow 2317DF0.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
851	Sunday and Holiday Hours - Raceway External bend 2318DF0	HCWA0004	Provide and install raceway External bend 2318DF0.
852	Sunday and Holiday Hours - Raceway Flat elbow 2311DF0	HCWA0005	Provide and install raceway Flat elbow 2311DF0.
853	Sunday and Holiday Hours - Raceway Wire clip ivory 2300WC	HCWA0006	Provide and install raceway Wire clip ivory 2300WC.
854	Sunday and Holiday Hours - Raceway Blank end fitting 2310B	HCWA0007	Provide and install raceway Blank end fitting 2310B.
855	Sunday and Holiday Hours - Raceway Entrance fitting 2310A	HCWA0008	Provide and install raceway Entrance fitting 2310A.
856	Sunday and Holiday Hours - Raceway Tee 2315	HCWA0009	Provide and install raceway Tee 2315.
857	Sunday and Holiday Hours - Other Tasks - Core Drilling, 1" hole	HHDT0001	Core Drilling, 1" hole. Must be ordered in conjunction with material component in this Section.
858	Sunday and Holiday Hours - Other Tasks - Core Drilling, 2" hole	HHDT0002	Core Drilling, 2" hole. Must be ordered in conjunction with material component in this Section.
859	Sunday and Holiday Hours - Other Tasks - Core Drilling, 3" hole	HHDT0003	Core Drilling, 3" hole. Must be ordered in conjunction with material component in this Section.
860	Sunday and Holiday Hours - Other Tasks - Core Drilling, 4" hole	HHDT0004	Core Drilling, 4" hole. Must be ordered in conjunction with material component in this Section.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
861	Sunday and Holiday Hours - Other Tasks - Wall penetration - drywall	HHDT0005	Wall penetration – drywall. Must be ordered in conjunction with material component in this Section.
862	Sunday and Holiday Hours - Other Tasks - Scissor Lift Rental (20') (Includes daily rate, pickup and delivery fees)	HHDT0006	For contractor use in support of SRI services. Scissor Lift Rental (20') (Includes daily rate, pickup and delivery fees). Must be ordered in conjunction with material component in this Section.
863	Sunday and Holiday Hours - Other Tasks - CAD Drawing	HHDT0007	CAD Draftsman Services
864	Sunday and Holiday Hours - Other Tasks - Fire Seal Penetration, 1" hole	HHDT0009	Fire Seal Penetration, 1'' hole.
865	Sunday and Holiday Hours - Other Tasks - Fire Seal Penetration, 2" hole	HHDT0010	Fire Seal Penetration, 2" hole.
866	Sunday and Holiday Hours - Other Tasks - Fire Seal Penetration, 3" hole	HHDT0011	Fire Seal Penetration, 3" hole.
867	Sunday and Holiday Hours - Other Tasks - Fire Seal Penetration, 4" hole	HHDT0012	Fire Seal Penetration, 4" hole.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
868	Sunday and Holiday Hours - Other Tasks - Installation of equipment ground (Includes all material, terminations and labor for each applicable equipment and the installation of 2 - 8' x 5/8" ground rods and # 6 ground wire)	HHDT0013	Installation of equipment ground (Includes all material, terminations and labor for each applicable equipment and the installation of 2 - 8' x 5/8" ground rods and # 6 ground wire).
869	Sunday and Holiday Hours - Other Tasks - Installation of equipment ground (Includes all material, terminations and labor for each applicable equipment and the installation # 6 ground wire.	HHDT0014	Installation of equipment ground (Includes all material, terminations and labor for each applicable equipment and the installation # 6 ground wire.
870	Sunday and Holiday Hours - Other Tasks - 12" Grounding Buss Bar with TMGB Pattern	HHDT0015	Provide and install 12" Grounding Buss Bar with TMGB Pattern.
871	Sunday and Holiday Hours - Other Tasks - 20" Grounding Buss Bar with TMGB Pattern	HHDT0016	Provide and install 20" Grounding Buss Bar with TMGB Pattern.
872	Sunday and Holiday Hours - Other Tasks - 1/4" Compression Grounding Lugs	HHDT0017	Provide and install 1/4" Compression Grounding Lugs.

Line Item	Feature Name	Bidder's Product Identifier	Bidder's Product Description, Restrictions and Limitations
873	Sunday and Holiday Hours - Other Tasks - Relocate existing telephone handset (same HC/TC on existing cabling) - includes cross-connect, testing, and documentation	HHDT0018	Relocate existing telephone handset (same HC/TC on existing cabling) - includes cross-connect, testing, and documentation. Must be ordered in conjunction with material component in this Section.
874	Sunday and Holiday Hours - Other Tasks - Install new cross-connect	HHDT0019	Install new cross-connect.

23.4.3 Services Related Hourly Support

The Contractor shall provide labor for the diagnosis and/or repair of services listed in this Contract and all costs for repair are the responsibility of the service provider unless it is specifically determined that the cause of service failure is outside the scope of the Contractors responsibilities. Work performed under this Section 23.4.3 is authorized only for situations where the Contractor has dispatched personnel to diagnose a service problem that is discovered to be caused by factors outside the responsibility of the Contractor or no trouble is found.

Bidder understands this Requirement and shall meet or exceed it? Yes

In Cost Worksheet 23.4.3, the Contractor shall provide a fixed hourly rate schedule for the labor classifications required to diagnose and/or repair the contracted services. The rates identified shall only be used for the diagnosis and/or repair of contracted services and no materials shall be included in the rates. The total amount of labor hours permitted to be performed is ten hours per dispatch/occurrence.

Bidder understands this Requirement and shall meet or exceed it? Yes

The Contractor shall offer emergency restoration services as detailed in Table 23.4.3.3.

Table 23.4.3.3 – Services Related Hourly Support

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
1	Field Service Repair Technician Regular Hours	Field technician properly trained to an expert level for the service being dispatched to diagnose and/or repair a CALNET DNCS service problem that turns out to be caused by factors outside the responsibility of the Contractor.	Verizon will provide a Field technician properly trained to an expert level for the service being dispatched to diagnose and/or repair a CALNET DNCS service problem that turns out to be caused by factors outside the responsibility of the Contractor.	TCRR0000	Yes

Line Item	Feature Name	Feature Description	Bidder's Product Description, Restrictions and Limitations	Bidder's Product Identifier	Bidder Meets or Exceeds? Yes or No
2	Field Service Repair Technician Overtime Hours	Field technician properly trained to an expert level for the service being dispatched to diagnose and/or repair a CALNET DNCS service problem that turns out to be caused by factors outside the responsibility of the Contractor.	Verizon will provide a Field technician properly trained to an expert level for the service being dispatched to diagnose and/or repair a CALNET DNCS service problem that turns out to be caused by factors outside the responsibility of the Contractor.	TCRO0000	Yes
3	Field Service Repair Technician Sunday and Holiday Hours	Field technician properly trained to an expert level for the service being dispatched to diagnose and/or repair a CALNET DNCS service problem that turns out to be caused by factors outside the responsibility of the Contractor.	Verizon will provide a Field technician properly trained to an expert level for the service being dispatched to diagnose and/or repair a CALNET DNCS service problem that turns out to be caused by factors outside the responsibility of the Contractor.	TCRH0000	Yes

23.5 SERVICE LEVEL AGREEMENTS (SLA)

The Contractor shall provide Service Level Agreements (SLAs) as defined below. The intent of this section is to provide Customers, CALNET Program and the Contractor with requirements that define and assist in the management of the SLAs. This section includes the SLA formats, general requirements, stop clock conditions, and the Technical SLAs for the services identified in this solicitation.

23.5.1 Service Level Agreement Format

The Contractor shall adhere to the following format and include the content as described below for each Technical SLA added by the Contractor throughout the Term of the Contract:

1. SLA Name – Each SLA Name must be unique;
2. Definition - Describes what performance metric will be measured;
3. Measurements Process - Provides instructions how the Contractor will continuously monitor and measure SLA performance to ensure compliance. The Contractor shall provide details describing how and what will be measured. Details should include source of data and define the points of measurement within the system, application, or network;
4. Service(s) - All applicable services will be listed in each SLA;
5. Objective(s) – Defines the SLA performance goal/parameters; and,
6. Rights and Remedies
7. Per Occurrence: Rights and remedies are paid on a per event basis during the bill cycle; and,
8. Monthly Aggregated Measurements: Rights and remedies are paid once during the bill cycle based on an aggregate of events over a defined period of time.

The Contractor shall proactively apply a credit or refund when a SLA objective is not met. CALNET SLA Rights and Remedies do not require the Customer to submit a request for credit or refund.

Bidder understands this Requirement and shall meet or exceed it? Yes

23.5.2 Technical Requirements versus SLA Objectives

Sections 23.2 (Ethernet Services), 23.3 (Network Disaster/Operational Recovery) and 23.4 (Other Services) define the technical requirements for each service. These requirements are the minimum parameters each Bidder must meet in order to qualify for Contract award. Upon Contract award the committed technical requirements will be maintained throughout the remainder of the Contract.

Committed SLA objectives are minimum parameters which the Contractor shall be held accountable for all rights and remedies throughout Contract Term.

Bidder understands this Requirement and shall meet or exceed it? Yes

23.5.3 Methods of Outage Reporting: Customer or Contractor

There are two methods in which CALNET service failures or quality of service issues may be reported and Contractor trouble tickets opened: Customer reported or Contractor reported.

The first method of outage reporting results from a Customer reporting service trouble to the Contractor's Customer Service Center via phone call or opening of a trouble ticket using the on-line Trouble Ticket Reporting Tool (SOW Business Requirements Section G.10.4, Trouble Ticket Reporting Tool (TTRT)).

The second method of outage reporting occurs when the Contractor opens a trouble ticket as a result of network/system alarm or other method of service failure identification. In each instance the Contractor shall open a trouble ticket using the Trouble Ticket Reporting Tool (SOW Business Requirements Section G.10.4) and monitor and report to Customer until service is restored.

Bidder understands this Requirement and shall meet or exceed it? Yes

23.5.4 Bidder Response to Service Level Agreements

Many of the Service Level Agreements described below include multiple objective levels – Basic, Standard and Premier. Bidders shall indicate one specific objective level they are committing to for each service in space provided in the "Objective" section of each SLA description.

Bidder understands this Requirement and shall meet or exceed it? Yes

23.5.5 Contractor SLA Management Plan

Within 90 calendar days of Contract award, the Contractor shall provide CALNET CMO with a detailed SLA Management Plan that describes how the Contractor will manage the Technical SLAs for services in this IFB. The SLA Management plan shall provide processes and procedures to be implemented by the Contractor. The SLA Management Plan shall define the following:

1. Contractor SLA Manager and supporting staff responsibilities;
2. Contractor's process for measuring objectives for each SLA. The process shall explain how the Contractor will continuously monitor and measure SLA performance to ensure compliance. The Contractor shall provide details describing how and what will be measured. Details should include

source of data and define the points of measurement within the system, application, or network;

3. Creation and delivery of SLA Reports (SOW Business Requirements Section G.10.5). The Contractor shall include a sample report in accordance with SOW Business Requirements Section G.10.5, SLA Reports for the following: SLA Service Performance Report (SOW Business Requirements Section G.10.5.1), SLA Provisioning Report (SOW Business Requirements Section G.10.5.2), SLA Catastrophic Outage Reports (SOW Business Requirements Section G.10.5.3), and Trouble Ticket and Provisioning/SLA Credit Report (SOW Business Requirements Section G.10.5.4). The Contractor shall commit to a monthly due date. The reports shall be provided to the CALNET Program via the Private Oversight Website (SOW Business Requirements Section G.10.2);
4. SLA invoicing credit and refund process;
5. Contractor SLA problem resolution process for SLA management and SLA reporting. The Contractor shall provide a separate process for Customers and CALNET Program; and,
6. Contractor SLA Manager to manage all SLA compliance and reporting. The Contractor shall include SLA Manager contact information for SLA inquiries and issue resolution for Customer and CALNET Program.

Bidder understands this Requirement and shall meet or exceed it? Yes

23.5.6 Technical SLA General Requirements

The Contractor shall adhere to the following general requirements which apply to all CALNET Technical SLAs (Section 23.5.8):

1. With the exception of the Provisioning SLA (Section 23.5.8.9), the total SLA rights and remedies for any given month shall not exceed the sum of 100% of the Total Monthly Recurring Charges (TMRC). Services with usage charges shall apply the Average Daily Usage Charge (ADUC) in addition to any applicable TMRC rights and remedies;
2. If a circuit or service fails to meet one or more of the performance objectives, only the SLA with the largest monthly Rights and Remedies will be credited to the Customer, per event;
3. The Contractor shall apply CALNET SLAs and remedies for services provided by Subcontractors and/or Affiliates;
4. The Definition, Measurement Process, Objectives, and Rights and Remedies shall apply to all services identified in each SLA. If a Category or Subcategory is listed in the SLA, then all services under that Category

or Subcategory are covered under the SLA. Exceptions must be otherwise stated in the SLA; and,

5. TMRC rights and remedies shall include the service, option(s), and feature(s) charges.

Bidder understands this requirement and shall meet or exceed it? Yes

6. The Contractor shall proactively and continuously monitor and measure all Technical SLA objectives.

Bidder understands this requirement and shall meet or exceed it? Yes

7. The Contractor shall proactively credit all rights and remedies to the Customer within 60 calendar days of the trouble resolution date on the trouble ticket or within 60 calendar days of the Due Date on the Service Request for the Provisioning SLA.

Bidder understands this requirement and shall meet or exceed it? Yes

8. To the extent that Contractor offers additional SLAs, or SLAs with more advantageous rights and/or remedies for same or similar services offered through tariffs, online service guides, or other similarly situated government contracts (Federal, State, County, City), The State will be entitled to the same rights and/or remedies therein. The Contractor shall present the SLAs to CALNET Program for possible inclusion via amendments;
9. The Contractor shall apply CALNET DNCS SLAs and remedies to services provided in all areas the Contractor provides service and/or open to competition (as defined by the CPUC). Any SLAs and remedies negotiated between Contractor and Incumbent Local Exchange Carriers in territories closed to competition shall be passed through to the CALNET DNCS Customer;
10. The election by CALNET Program of any SLA remedy covered by this Contract shall not exclude or limit CALNET Program or any Customer's rights and remedies otherwise available within the Contract or at law or equity;
11. The Contractor shall apply rights and remedies when a service fails to meet the SLA objective even when backup or protected services provide Customer with continuation of services;
12. The Contractor shall act as the single point of contact in coordinating all entities to meet the State's needs for provisioning, maintenance, restoration and resolution of service issues or that of their Subcontractors, Affiliates or resellers under this Contract;

13. The Customer Escalation Process and/or the CALNET CMO Escalation Process shall be considered an additional right and remedy if the Contractor fails to resolve service issues within the SLA objective(s);

14. Trouble reporting and restoration shall be provided 24x7 for CALNET services;

Bidder understands this requirement and shall meet or exceed it? Yes

15. SLAs apply 24x7 unless SLA specifies an exception;

16. Contractor invoices shall clearly cross reference the SLA credit to the service Circuit ID in accordance with SOW Business Requirements Section G.6;

Bidder understands this requirement and shall meet or exceed it? Yes

17. The Contractor shall provide a CALNET DNCS SLA Manager responsible for CALNET DNCS SLA compliance. The SLA Manager shall attend regular meetings and be available upon request to address CALNET Program SLA oversight, report issues, and problem resolution concerns. The CALNET DNCS SLA Manager shall also coordinate SLA support for Customer SLA inquiries and issue resolution;

18. The Contractor shall provide Customer and CALNET Program support for SLA inquiries and issue resolution; and,

19. Any SLAs and remedies negotiated between Contractor and third party service provider in territories closed to competition shall be passed through to the CALNET DNCS Customer.

Bidder understands the requirements and shall meet or exceed them? Yes

23.5.7 Trouble Ticket Stop Clock Conditions

Only the following conditions shall be allowed to stop the duration of the Service Level Agreements. The Contractor shall document durations using the Stop Clock Condition (SCC) listed in Table 23.5.7, which must include start and stop time stamps in the Contractor's Trouble Ticket Reporting Tool (SOW Business Requirements Section G.10.4) or Customer provisioning Service Request for each application of an SCC.

Bidder understands the requirements and shall meet or exceed them? Yes

The Contractor shall not consider "cleared while testing" or "no trouble found" as a SCC.

Bidder understands the requirements and shall meet or exceed them? Yes

Contractor observation timeframes, not requested by End-User, after incident resolution shall not be included in Outage Duration reporting.

Bidder understands the requirements and shall meet or exceed them? Yes

Note: The Glossary (SOW Appendix A) defines term "End-User" as the "individual within an Entity that is receiving services and/or features provided under the Contract."

Table 23.5.7 Stop Clock Conditions

Line Item	Stop Clock Condition (SCC)	SCC Definition
1	END-USER REQUEST	Periods when a restoration or testing effort is delayed at the specific request of the End-User. The SCC shall exist during the period the Contractor was delayed, provided that the End-User's request is documented and time stamped in the Contractor's trouble ticket or Service Request system and shows efforts are made to contact the End-User during the applicable Stop Clock period.
2	OBSERVATION	Time after a service has been restored but End-User request ticket is kept open for observation. If the service is later determined by the End-User to not have been restored, the Stop Clock shall continue until the time the End-User notifies the Contractor that the Service has not been restored.
3	END-USER NOT AVAILABLE	Time after a service has been restored but End-User is not available to verify that the Service is working. If the service is later determined by the End-User to not have been restored, the Stop Clock shall apply only for the time period between Contractor's reasonable attempt to notify the End-User that Contractor believes the service has been restored and the time the End-User notifies the Contractor that the Service has not been restored.
4	WIRING	Restoration cannot be achieved because the problem has been isolated to wiring that is not maintained by Contractor or any of its Subcontractors or Affiliates. If it is later determined the wiring is not the cause of failure, the SCC shall not apply.
5	POWER	Trouble caused by a power problem outside of the responsibility of the Contractor.

Line Item	Stop Clock Condition (SCC)	SCC Definition
6	CUSTOMER PROVISIONING DELAY	Delays to Provisioning caused by lack of Customer's building entrance Facilities, conduit structures that are the Customer's responsibilities or Extended demarcation wiring. If the Service Providing Contractor has been contracted by the Customer for extended demarcation, this SCC shall not apply to missed dates/times. The Customer Provisioning Delay SCC is restricted to Provisioning SLAs only.
7	ACCESS	<p>Limited access or contact with End-User provided the Contractor documents in the trouble ticket several efforts to contact End-User for the following:</p> <ul style="list-style-type: none"> a. Access necessary to correct the problem is not available because access has not been arranged by site contact or End-User representative; b. Site contact refuses access to technician who displays proper identification; c. Customer provides incorrect site contact information which prevents access, provided that Contractor takes reasonable steps to notify End-User of the improper contact information and takes steps to obtain the correct information; or, d. Site has limited hours of business that directly impacts the Contractor's ability to resolve the problem. <p>If it is determined later that the cause of the problem was not at the site in question, then the Access SCC shall not apply.</p>

Line Item	Stop Clock Condition (SCC)	SCC Definition
8	STAFF	Any problem or delay to the extent caused by End-User's staff that prevents or delays Contractor's resolution of the problem. In such event, Contractor shall make a timely request to End-User staff to correct the problem or delay and document in trouble ticket.
9	APPLICATION	End-User software applications that interfere with repair of the trouble.
10	CPE	Repair/replacement of Customer Premise Equipment (CPE) not provided by Contractor if the problem has been isolated to the CPE. If determined later that the CPE was not the cause of the service outage, the CPE SCC will not apply.
11	NO RESPONSE	Failure of the trouble ticket originator or responsible End-User to return a call from Contractor's technician for on-line close of trouble tickets after the Service has been restored as long as Contractor can provide documentation in the trouble ticket substantiating the communication from Contractor's technician.
12	MAINTENANCE	An outage directly related to any properly performed scheduled maintenance or upgrade scheduled for CALNET DNCS service. Any such stop clock condition shall not extend beyond the scheduled period of the maintenance or upgrade. SLAs shall apply for any maintenance caused outage beyond the scheduled maintenance period. Outages occurring during a scheduled maintenance or upgrade period and not caused by the scheduled maintenance shall not be subject to the Maintenance SCC.
13	THIRD PARTY	Any problem or delay caused by a third party not under the control of Contractor, not preventable by Contractor, including, at a minimum, cable cuts not caused by the Contractor. Contractor's Subcontractors and Affiliates shall be deemed to be under the control of Contractor with respect to the equipment, services, or Facilities to be provided under this Contract.

Line Item	Stop Clock Condition (SCC)	SCC Definition
14	FORCE MAJEURE	Force Majeure events, as defined in the eVAQ General Provisions - Telecommunications, Section 28 (Force Majeure).
15	CUSTOMER ENVIRONMENTAL	An outage directly caused by customer premise environmental conditions, which are outside the control and responsibility of the Contractor. This includes a non-secured location, excessive heat or lack of cooling. If determined later that the environmental conditions were not the cause of the service outage, or a result of the Contractor modifying Contractor provided equipment without Customer's approval, the Customer Environmental SCC will not apply.

Bidder understands the requirements and shall meet or exceed them? Yes

The Contractor shall provide and manage the following Technical SLAs.

23.5.8 Technical Service Level Agreements (SLA)

23.5.8.1 Availability (M-S)

SLA Name: Availability

Definition:

The percentage of time a CALNET MAE service is fully functional and available for use each calendar month.

Measurement Process:

The monthly Availability Percentage shall be based on the accumulative total of all Unavailable Time derived from all trouble tickets closed, for the individual affected service (per Circuit ID or Service ID), per calendar month. The monthly Availability Percentage equals the Scheduled Uptime per month less Unavailable Time per month divided by Scheduled Uptime per month multiplied by 100. Scheduled Uptime is based on 24 x number of days in the month. All Unavailable Time applied to other SLAs, which results in a remedy, will be excluded from the monthly accumulated total.

Services:

Objectives:

The objective will be based on the access type identified in the table below:

Access Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B, S or P)
EPL and EVPL MAE Service 10/100 Mbps	≥ 99.2%	≥ 99.5%	≥ 99.9%	P
EPL and EVPL MAE Service 1 Gbps	≥ 99.2%	≥ 99.5%	≥ 99.9%	P
EPL and EVPL MAE Service 10 Gbps	≥ 99.2%	≥ 99.5%	≥ 99.9%	P
Ethernet Dedicated E-Line National	≥ 99.2%	≥ 99.5%	≥ 99.9%	P
Ethernet Switched E-Line National	≥ 99.2%	≥ 99.5%	≥ 99.9%	P
Virtual Private LAN Service (VPLS NATIONAL)	≥ 99.2%	≥ 99.5%	≥ 99.9%	P
Ethernet WAVE National Service	≥ 99.2%	≥ 99.5%	≥ 99.9%	P

Rights and Remedies:

1. Per Occurrence:

- End-User Escalation Process
- CALNET CMO Escalation Process

2. Monthly Aggregated Measurements:

- First month to fail to meet the committed SLA objective shall result in a 15% credit or refund of the TMRC.
- The second consecutive month to fail to meet the committed SLA objective shall result in a 30% credit or refund of TMRC.
- Each additional consecutive month to fail to meet the committed SLA objective shall result in a 50% credit or refund of the TMRC.

Bidder understands the requirements and shall meet or exceed them? Yes

23.5.8.2 Catastrophic Outage 1 (CAT 1) (M-S)

SLA Name: Catastrophic Outage 1 (CAT 1)

Definition:

The total loss of service at a single address based on a common cause resulting in the failure of five UNIs or any cumulative UNI failure equal to, or greater than, 10 Gbps.

Measurement Process:

The Outage Duration begins when a network alarm is received by the Contractor from an outage-causing event or the opening of a trouble ticket by a Customer, or the Contractor, whichever occurs first. The Contractor shall open a trouble ticket for each service (Circuit ID or Service ID) affected by the common cause. Each End-User service is deemed out of service from the first notification until the Contractor determines the End-User service (Circuit ID or Service ID) is restored minus SCC. Any service reported by a Customer as not having been restored shall have the outage time adjusted to the actual restoration time.

Services:

MAE Service

Objectives:

The objective restoral time will be:

Access Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B, S or P)
MAE Service	≤ 3 hours	≤ 2 hours	≤ 1 hour	P

Rights and Remedies:

1. Per Occurrence:
 - 100% credit or refund of the TMRC for each End-User service not meeting the committed objective for each CAT 1 fault.
2. Monthly Aggregated Measurements:

Bidder understands the requirements and shall meet or exceed them? Yes

23.5.8.3 Catastrophic Outage 2 (CAT 2) (M-S)

SLA Name: Catastrophic Outage 2 (CAT 2)

Definition:

Any service affecting failure in the Contractor's (or subcontractor's or Affiliate's) network up to and including the Provider Edge (PE) equipment.

Measurement Process:

The Outage Duration begins when a network alarm is received by the Contractor from the outage-causing event or the opening of a trouble ticket by the Customer or Contractor, whichever occurs first. Upon notification from the Customer or network alarm, the Contractor shall compile a list for each End-User service affected by the common cause for tracking and reporting of the SLA rights and remedies. Outage Duration shall be measured on a per-End-User service (Circuit ID or Service ID) basis from information recorded from the network equipment/system or a Customer reported trouble ticket. Each End-User service (Circuit ID or Service ID) is deemed out of service from the first notification until the Contractor determines the End-User service is restored. Any End-User service reported by the End-User/Customer as not having been restored shall have the outage time adjusted to the actual restoration time.

Services:

MAE Service

Objectives:

The objective restoral time will be:

Access Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B, S or P)
MAE Service	≤ 1 Hour	≤ 30 Minutes	≤ 15 Minutes	P

Rights and Remedies:

1. Per Occurrence:

- 100% credit or refund of the for each End-User service not meeting the committed objective per occurrence objective for a single CAT 2 fault.

2. Monthly Aggregated Measurements:

- N/A

Bidder understands the requirements and shall meet or exceed them? Yes

23.5.8.4 Catastrophic Outage 3 (CAT 3) (M-S)

SLA Name: Catastrophic Outage 3 (CAT 3)

Definition:

The total loss of more than one service type in central office, or the loss of any service type on a system wide basis.

Measurement Process:

The Outage Duration begins when a network alarm is received by the Contractor from an outage-causing event or the opening of a trouble ticket by the Customer or the Contractor, whichever occurs first. Upon notification from the Customer or network alarm, the Contractor shall open a trouble ticket and compile a list for each End-User service (Circuit ID or Service ID) affected by the common cause for tracking and reporting of the SLA rights and remedies. Outage Duration shall be measured on a per-End-User service (Circuit ID or Service ID) basis from information recorded from the network equipment/system or trouble ticket. Each End-User service (Circuit ID or Service ID) is deemed out of service from the first notification until the Contractor determines the End-User service is restored. Any End-User service reported by the End-User/Customer as not having been restored shall have the outage time adjusted to the actual restoration time.

Services:

MAE Service

Objectives:

The objective restoral time will be:

Access Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B or P)
MAE Service	≤ 30 Minutes	N/A	≤ 15 Minutes	P

Rights and Remedies:

1. Per Occurrence:

- 100% credit or refund of the TMRC for each service (Circuit ID or Service ID) not meeting the committed objective for each Cat 3 fault.

2. Monthly Aggregated Measurements:

- N/A

Bidder understands the requirements and shall meet or exceed them? Yes

23.5.8.5 Excessive Outage (M-S)

SLA Name: Excessive Outage

Definition:

Any failure that prevents full functionality of the service that remains unresolved for more than the committed objective level.

Measurement Process:

This SLA is based on trouble ticket Unavailable Time. The circuit or service is not fully functional during the time the trouble ticket is reported as opened until restoration of the service, minus SCC. If the Customer reports a partial or complete service that is not fully functional and remains unresolved after the closure of the trouble ticket by the Contractor, the Unavailable Time shall be adjusted to the actual restoration time.

Services:

MAE Service

Objectives:

The Unavailable Time objective shall not exceed:

Access Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B, S or P)
MAE Service	≤ 16 Hours	≤ 12 Hours	≤ 8 Hours	P

Rights and Remedies:

1. Per Occurrence:

- 100% credit or refund of the TMRC for each service (Circuit ID or Service ID) out of service for a period greater than the committed objective level.
- Upon request from the Customer or the CALNET Program, the Contractor shall provide a briefing on the excessive outage restoration.

2. Monthly Aggregated Measurements:

- N/A

Bidder understands the requirements and shall meet or exceed them? Yes

23.5.8.6 Notification

SLA Name: Notification

Definition:

The Contractor notification to the CALNET Program and designated stakeholders in the event of a CAT 2 or CAT 3 failure, terrorist activity, threat of natural disaster, or actual natural disaster which results in a significant loss of telecommunication services to CALNET DNCS End-Users or has the potential to impact services in a general or statewide area. The State understands initial information requiring the nature of the outage may be limited.

Measurement Process:

The Contractor shall adhere to the Network Outage Response requirements (SOW Business Requirements Section G.3.3, Network Outage Response) and notify the CALNET Program and designated stakeholders for all CAT 2 and CAT 3 Outages or for network outages resulting in a significant loss of service. Notification objectives will be based on the start time of the outage failure determined by the opening of a trouble ticket or network alarm, whichever occurs first. For events based on information such as terrorist activity or threat of

natural disaster, the Contractor shall notify the CALNET Program and designated stakeholder when information is available for dissemination to the Customers.

Services:

All services

Objectives:

Within 60 minutes of the above mentioned failures' start time, the Contractor shall notify the CALNET Program and designated stakeholders using a method defined in SOW Business Requirements, Network Outage Response.

At 60-minute intervals, updates shall be given on the above-mentioned failures via the method defined in SOW Business Requirements, Network Outage Response.

This objective is the same for Basic, Standard and Premier Commitments.

Rights and Remedies:

1. Per Occurrence:
 - Senior Management Escalation
2. Monthly Aggregated Measurements:
 - N/A

Bidder understands the requirements and shall meet or exceed them? Yes

23.5.8.7 Latency (M-S)

SLA Name: Latency

Definition:

Latency is the amount of time necessary for a typical Ethernet frame to traverse one way from the originating UNI, across the Contractor's, Affiliate, or Subcontractor's network, to the remote UNI(s) on each EVC identified by the Customer.

Measurement Process:

End-User/Customer is responsible for opening a trouble ticket with the Contractor's Customer Service Center (helpdesk) when the Latency exceeds the committed level. Latency shall be measured from the first bit of and

Ethernet frame entering the ingress UNI to when the last bit of the same frame leaves the egress UNI. The problem requires timely verification, consistent with industry standards, by the Contractor. Tickets identified as a Latency issue shall not count in Availability or Time-to-Repair measurements unless and until the End-User reports service as unusable for its intended uses.

This measurement includes the local loop transport under the control of the Contractor and any local loops acquired from a third party by the Contractor.

Services:

MAE Service

Objectives:

The Unavailable Time objective shall not exceed:

Access Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B, S or P)
MAE Service	≤ 75ms	≤ 50ms	≤ 25ms	P
Ethernet Dedicated E-Line National	≤ 75ms	≤ 50ms	≤ 25ms	B
Ethernet Switched E-Line National	≤ 75ms	≤ 50ms	≤ 25ms	B
Virtual Private LAN Service (VPLS NATIONAL)	≤ 75ms	≤ 50ms	≤ 25ms	B
Ethernet WAVE National Service	≤ 75ms	≤ 50ms	≤ 25ms	S

Rights and Remedies:

1. Per Occurrence:

- First month the service fails to meet the committed SLA objectives shall result in a 15% credit or refund of the TMRC for the reported service.
- Next consecutive month to fail to meet the committed SLA objectives shall result in a 25% credit or refund of the TMRC.
- Each additional consecutive month to fail to meet the committed SLA objective shall result in a 35% credit or refund of the TMRC.

2. Monthly Aggregated Measurements:

Bidder understands the requirements and shall meet or exceed them? Yes

23.5.8.8 Packet Loss (M-S)

SLA Name: Packet Loss

Definition:

A measurement of lost or dropped packet traveling across the Contractor's, Affiliate's or Subcontractor's network. Packet loss is the difference between the number of packets transmitted at the ingress UNI and the total number of packets received at the egress UNI.

Measurement Process:

End-User/Customer is responsible for opening a trouble ticket with the Contractor's Customer Service Center (helpdesk) when the packet loss exceeds the committed level. The problem requires timely verification, consistent with industry standards, by the Contractor. Tickets identified as a packet loss issue shall not count in Availability or Time-to-Repair measurements unless and until the End-User reports service as unusable for its intended uses.

This measurement includes the local loop transport under the control of the Contractor and any local loops acquired from a third party by the Contractor.

Services:

MAE Service

Objectives:

The Unavailable Time objective shall not exceed:

Access Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B, S or P)
MAE Service	≤ .7% Packet Loss	≤ .5% Packet Loss	≤ .2% Packet Loss	P
Ethernet Dedicated E-Line National	≤ .7% Packet Loss	≤ .5% Packet Loss	≤ .2% Packet Loss	P

Access Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B, S or P)
Ethernet Switched E-Line National	≤ .7% Packet Loss	≤ .5% Packet Loss	≤ .2% Packet Loss	P
Virtual Private LAN Service (VPLS NATIONAL)	≤ .7% Packet Loss	≤ .5% Packet Loss	≤ .2% Packet Loss	P
Ethernet WAVE National Service	≤ .7% Packet Loss	≤ .5% Packet Loss	≤ .2% Packet Loss	P

Rights and Remedies:

1. Per Occurrence:

- First month the service fails to meet the committed SLA objectives shall result in a 15% credit or refund of the TMRC for the reported service.
- Next consecutive month to fail to meet the committed SLA objectives shall result in a 25% credit or refund of the TMRC.
- Each additional consecutive month to fail to meet the committed SLA objective shall result in a 35% credit or refund of the TMRC.

2. Monthly Aggregated Measurements:

- N/A

Bidder understands the requirements and shall meet or exceed them? Yes

23.5.8.9 Provisioning (M-S)

SLA Name: Provisioning

Definition:

Provisioning shall include new services, moves, adds and changes, completed by the Contractor on or before the due dates. The Provisioning SLA shall be based on committed installation intervals established in this SLA or due dates negotiated between the Customer and the Contractor documented on the Contractor's order confirmation notification or Contracted Project Work SOW in accordance with SOW Business Requirements Section G.2.5.4, Provisioning and Implementation. The Contractor shall meet the committed interval dates or due date negotiated with the Customer. If the Customer agrees to a negotiated

due date, the negotiated due date supersedes the committed interval. At the Customer's discretion, if the scope of the Service Request(s) meets the Coordinated or Managed Project criteria, negotiated due dates will be established and documented in the Project Timeline per SOW Business Requirements Section G.8, Contracted Service Project Work.

Provisioning SLAs have two objectives:

Objective 1: Individual service installation; and,

Objective 2: Successful Install Monthly Percentage by service type.

Note: Provisioning timelines include extended demarcation wiring when appropriate.

Measurement Process:

Objective 1: Individual Service Installations: Install intervals are based on the committed installation intervals established in this SLA or due dates negotiated between the Customer and the Contractor. This objective requires the Contractor to meet the due date for each individual service installation. This includes individual circuit/service level installations for Coordinated and Managed Projects.

Objective 2: Successful Install Monthly Percentage per Service Type: The Contractor shall sum all individual installations per service, as listed below, meeting the objective in the measurement period and divide by the sum of all individual service installations due per service in the measurement period and multiply by 100 to equal the percentage of service installations completed on time. The Contractor must meet or exceed the objective below in order to avoid the rights and remedies.

Services:

Features must be installed in conjunction with the service except when listed below:

Service (Features must be installed with service except when listed below.)	Committed Interval Days	Coordinated/Managed Project
MAE Service	30	Coordinated/Managed Project
Ethernet Dedicated E-Line National	30	Coordinated/Managed Project
Ethernet Switched E-Line National	30	Coordinated/Managed Project

Service (Features must be installed with service except when listed below.)	Committed Interval Days	Coordinated/Managed Project
Virtual Private LAN Service (VPLS NATIONAL)	30	Coordinated/Managed Project
Ethernet WAVE National Service	30	Coordinated/Managed Project

Objectives:

Objective 1: Individual service installation: Service provisioned on or before the due date per installation Service Request.

Objective 2: Monthly Average percent by service type:

Access Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B or P)
MAE Service	≥ 90%	N/A	≥ 95%	P
Ethernet Dedicated E-Line National	≥ 90%	N/A	≥ 95%	P
Ethernet Switched E-Line National	≥ 90%	N/A	≥ 95%	P
Virtual Private LAN Service (VPLS NATIONAL)	≥ 90%	N/A	≥ 95%	P
Ethernet WAVE National Service	≥ 90%	N/A	≥ 95%	P

Rights and Remedies:

1. Per Occurrence:

- Objective 1: Individual service installations: 50% of installation fee credited to the Customer for any missed committed objective.

2. Monthly Aggregated Measurements:

- Objective 2: 100% of the installation fee credited to the Customer for all service installations (per service type) that did not complete within the committed objective during the month if the Successful Install Monthly Percentage is below the committed objective.

Bidder understands the requirements and shall meet or exceed them? Yes

SLA Name: Time to Repair

Definition:

Any failure that prevents full functionality of the service that remains unresolved for more than the committed objective level.

Measurement Process:

This SLA is based on trouble ticket Unavailable Time per service (Circuit ID or Service ID). The circuit or service is not fully functional during the time the trouble ticket is reported as opened until restoration of the service, minus SCC. If the Customer reports a service that is not fully functional and remains unresolved after the closure of the trouble ticket by the Contractor, the Unavailable Time shall be adjusted to the actual restoration time. This SLA is applied per occurrence.

Services:

MAE Service

Objectives:

The Unavailable Time objective shall not exceed:

Access Type	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B, S or P)
MAE Service	≤ 6 Hours	≤ 5 Hours	≤ 4 Hours	\$
Ethernet Dedicated E-Line National	≤ 6 Hours	≤ 5 Hours	≤ 4 Hours	\$
Ethernet Switched E-Line National	≤ 6 Hours	≤ 5 Hours	≤ 4 Hours	\$
Virtual Private LAN Service (VPLS NATIONAL)	≤ 6 Hours	≤ 5 Hours	≤ 4 Hours	\$
Ethernet WAVE National Service	≤ 6 Hours	≤ 5 Hours	≤ 4 Hours	\$

Rights and Remedies:

1. Per Occurrence:

- 25% credit or refund of the TMRC for each service (Circuit ID or Service ID) out of service for a period greater than the committed objective level.

2. Monthly Aggregated Measurements:

- N/A

Bidder understands the requirements and shall meet or exceed them? Yes

23.5.8.11 Managed Service Proactive Notification

SLA Name: Managed Service Proactive Notification

Definition:

The proactive outage notification SLA provides credits if the Contractor fails to open a trouble ticket and notify Customer of an Outage for a managed service. Notification to the Customer shall occur through means agreed to by Contractor and CALNET Program.

An Outage is defined as an unscheduled period in which the managed service interrupted and unavailable for use by Customer for 60 continuous seconds or more than 60 cumulative seconds within a 15-minute period measured by the Contractor.

Measurement Process:

The Outage Duration start shall be determined by the first Contractor network alarm resulting from the outage-causing event or the opening of a trouble ticket by the Customer, whichever occurs first. The Contractor has fifteen minutes (Notification Period) to open a trouble ticket and notify the Customer from the start point of the first network alarm. The Contractor is in compliance with the proactive outage notification SLA if the Customer opened the trouble ticket prior to the network alarm or Customer is notified by the Contractor within the Notification Period.

Services:

MAE Services with Managed Router or IP Enabled Routing Device

Objectives:

15 Minutes

1. Per Occurrence:

- Customer will receive a credit or refund equal to 10% of the TMRC for each Contractor Managed Service (Circuit ID) that was impacted during an outage if the Customer was not proactively notified within the notification period

2. Monthly Aggregated Measurements:

- N/A

Bidder understands the requirements and shall meet or exceed them? Yes

23.5.8.12 Unsolicited Service Enhancement SLAs

All unsolicited service enhancements shall be considered a feature of the service, and therefore shall be included as such under the SLAs as defined in this Section.

Bidder understands the requirements and shall meet or exceed them? Yes

23.5.8.13 Proposed Unsolicited Offerings

The Contractor shall provide SLAs as defined in SLA Section 23.5.8 for each unsolicited offering determined by the CALNET Program not to be a feature of a service or a component of an unbundled service identified in the technical requirements. SLA tables shall be amended after Contract award to include all new unsolicited services.

Bidder understands the requirements and shall meet or exceed them? Yes

23.5.8.14 Contract Amendment Service Enhancement SLAs

All Contract amendment service enhancements shall be considered a feature of the service, therefore included as such under the SLAs as defined in Section 23.5.8.

Bidder understands the requirements and shall meet or exceed them? Yes