



**Verizon**

**IFB STPD 12-001-B, C3-B-13-02-TS-08**

**Amendment #9, Rev. February 8, 2018**

**CALNET 3, Category 5: Managed Internet  
Services**

**Volume 2 – Response to Unique  
Category Requirements**

**SOW Technical Requirements  
Response**



# A Proposal to

# State of California California Department of Technology Statewide Technology Procurement Division

for Best and Final Offer (BAFO)

Volume 2 – Category 5 – Managed Internet Services

INVITATION FOR BID - IFB STPD 12-001-B

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# Response to SOW Technical Requirements

## TECHNICAL REQUIREMENTS

### CATEGORY 5 – MANAGED INTERNET SERVICES

#### 5.1 OVERVIEW

*This Category 5 IFB provides the State's solicitation for best value solutions for managed Internet services. This IFB describes the CALNET 3 technical requirements necessary to support the CALNET 3 program requirements.*

*This IFB will be awarded to Bidders that meet the award criteria as described in IFB Section 4. The CALNET 3 Contract(s) that result from the award of this IFB will be managed on a day-to-day basis by the CALNET 3 Contract Management and Oversight (CALNET 3 CMO).*

##### 5.1.1 BIDDER RESPONSE REQUIREMENTS

*Throughout this IFB, Bidders are required to acknowledge acceptance of the requirements described herein by responding to one (1) of the following:*

*Example A (for requirements that require confirmation that the Bidder understands and accepts the requirement):*

*"Bidder understands the Requirement and shall meet or exceed it? Yes\_\_\_\_\_ No\_\_\_\_\_"*

*Or,*

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

*"Bidder understands the requirements in Section xxx and shall meet or exceed them? Yes\_\_\_\_\_ No\_\_\_\_\_"*

*Description:"*

##### 5.1.2 DESIGNATION OF REQUIREMENTS

*All Technical Requirements specified in this IFB Section are Mandatory and must be responded to as identified in IFB Section 3.4.2.5 by the Bidder. Additionally, some Mandatory requirements are "Mandatory-Scorable" and are designated as "(M S)". The State will have the option of whether or not to include each item in the Contract, based on the best interest of the State. Furthermore, Customers will have the option whether or not to order services or features included in the Contract. Service Requests for some CALNET 3 services or features may require CALNET 3 CMO approval.*

*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 Bidder provided unsolicited items include features described in the IFB requirements and are not billable in the Cost Worksheets, the cost associated with the features shall not be included in the unsolicited service unless it represents an unbundling of the mandatory service.*

*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.*

### 5.1.3 PACIFIC TIME ZONE

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

## 5.2 MANAGED INTERNET SERVICE

The Contractor shall provide dedicated Internet access service that provides high-speed Internet access through communications facilities managed by the Contractor.

Bidder shall describe in detail the high-speed Internet access service(s) that will be provided under this Contract.

When describing the full suite of services offered, bidders should clearly indicate and differentiate those services that will be used to meet the minimum requirements and those services that are offered as unsolicited.

**Bidder understands the requirements in Section 5.2 and shall meet or exceed them? Yes X**

**No \_\_\_\_\_**

### **Description:**

Verizon will provide Dedicated Internet access service that provides high-speed Internet access through communications facilities managed by Verizon.

Verizon is a Global IP leader operating one of the world's most connected public Internet backbone networks. Verizon's Data networks cover more than 800,000 route miles; Verizon was the first to deploy commercial 100G (gigabits per second) ultra-long-haul optical systems for live traffic, the first to provide Internet email and the first commercial ISP. On average, Verizon transports over 21,000TB (Terabytes) of internet backbone traffic per day.

### **Dedicated Internet**

This service provides high-performance, always-on, high-bandwidth dedicated Internet access via Private Line. Verizon Dedicated Internet service offers high bandwidth, dedicated connection to Verizon's global IP network via a wide range of access circuits from 1.536Mbps to 2.45Gbps and Ethernet Speeds from 1Mbps to 10Gbps. Internet Dedicated offers a standard IP service package that includes domain names, DNS, news, IPv4 and IPv6 addresses, Dual-Stack: (Native IPv4 and Native IPv6) on the same access circuit —Tunneled: Encapsulated IPv6 packets within a IPv4 Tunnel, 24x7 network monitoring.

### 5.2.1 INTERNET SERVICES GENERAL REQUIREMENTS

The Contractor's network shall connect a Customer's Local Area Network (LAN) or application to the Internet by providing highly reliable transport and Internet Protocol (IP) connectivity. The service shall use the Transmission Control Protocol/Internet Protocol (TCP/IP) to interconnect customer premise equipment (CPE) to the public Internet Service Provider (ISP) networks.

**Bidder understands the Requirement and shall meet or exceed it? Yes X No \_\_\_\_\_**

## 5.2.2 NETWORK CAPABILITIES

The Contractor's network shall have:

1. Established public peering arrangements from the Contractor's network to the Internet.
2. Private peering arrangements established from the Contractor's network with redundant links to connect to its private peering partners.
3. Support for Customer assigned and Internet Corporation for Assigned Names and Numbers (ICANN) registered IP addresses and domain names.
4. Primary and Secondary Domain Name Service (DNS) to provide an authoritative name server for the Customer.

The Contractor shall provide support for the border gateway protocol (BGP) for Customers with registered Autonomous System (AS) numbers.

**Bidder understands the Requirement and shall meet or exceed it? Yes  No \_\_\_\_\_**

### 5.2.2.1 Standards

Dedicated Internet Services shall comply with the following standards, as applicable, and when commercially available by the Contractor:

1. Internet Engineering Task Force (IETF) Requests for Comments (RFCs);
2. ANSI T1;
3. ITU TSS Recommendations;
4. ATM Forum;
5. Frame Relay Forum implementation agreements;
6. North American ISDN Users Forum (NIUF);
7. IEEE
  - a. 802.10;
  - b. 802.1P; and
  - c. 802.3AD.
8. Metro Ethernet Forum (MEF);
9. IETF RFCs for IPv6 when offered commercially by the Contractor; and
10. All new versions, amendments, and modifications to the above documents and standards as they become commercially available.

**Bidder understands the Requirement and shall meet or exceed it? Yes  No \_\_\_\_\_**

## 5.2.3 NETWORK OPERATIONS AND MANAGEMENT

### 5.2.3.1 General Description

The Contractor's data network(s) shall meet established industry standards.

**Bidder understands the Requirement and shall meet or exceed it? Yes  No \_\_\_\_\_**

### 5.2.3.2 Network Operations Center

The Contractor shall maintain a Network Operations Center (NOC) that is staffed 24x365 that coordinates and manages all data traffic.

The NOC shall perform the following services:

1. Network surveillance;
2. Fault management (trouble identification, isolation and notification); and,
3. Monitor network performance in near real-time to identify capacity blockages and implement controls to optimize network health and performance immediately.

**Bidder understands the Requirement and shall meet or exceed it? Yes  No \_\_\_\_\_**

### 5.2.3.3 Security

#### 5.2.3.3.1 Physical Access

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 Requirement and shall meet or exceed it? Yes  No \_\_\_\_\_**

#### 5.2.3.3.2 Network Security

The Contractor's network security solution shall incorporate the following features:

1. The Contractor's network equipment locations and data centers shall use carrier grade platforms; and,
2. All equipment shall be in a hardened facility and all unnecessary services shall be disabled or removed.

**Bidder understands the Requirement and shall meet or exceed it? Yes  No \_\_\_\_\_**

#### 5.2.3.3.3 Security Event Notifications

The Contractor shall provide the designated State representatives with notifications of suspected and real security violations that impact CALNET 3 Customers within one (1) hour of such determination via telephonic means or email.

**Bidder understands the Requirement and shall meet or exceed it? Yes  No \_\_\_\_\_**

## 5.2.4 DEDICATED INTERNET FLAT RATE SERVICES TECHNICAL REQUIREMENTS

The service shall connect a Customer's LAN or application to the Internet by providing highly reliable transport and IP connectivity to the internet.

The speeds in the Feature Names in Table 5.2.4.1.b indicate download speeds. Bidder shall indicate the upload speeds in the Bidder's Product Description in Table 5.2.4.1.b, Table 5.2.4.2.b and in Catalog A, Column E (Feature Restrictions, Limitations, and Additional Information).

**Bidder understands the Requirement and shall meet or exceed it? Yes  No \_\_\_\_\_**

**5.2.4.1 Internet Flat Rate Service (InFRa)**

The Contractor shall provide Internet Flat Rate Service (InFRa) at the speeds identified in Table 5.2.4.1.b. The services shall consist of a dedicated Internet port and transport from the Customer site to the nearest Contractor Point-of-Presence (POP). The service shall include all equipment, cabling and labor required to provide a User-to-Network Interface (UNI) at the Customer premise Minimum Point of Entry (MPOE). The Contractor shall describe the User-to-Network Interface characteristics in the rows provided in Table 5.2.4.1.b using Table 5.2.4.1.a as a guide. Table 5.2.4.1.a is a guide only. Contractors shall follow the format as closely as possible if the guide content does not align with a particular Contractor technology or offering.

Table 5.2.4.1.a - InFRa UNI Guide

	<b>Interface/Access Type</b>	<b>Network-Side Interface</b>	<b>Protocol</b>
1	Asynchronous Transfer Mode Service (ATMS)	<ol style="list-style-type: none"> <li>1. T1</li> <li>2. T3</li> <li>3. OC-3c</li> <li>4. OC-12c</li> </ol>	IPv4/v6 over ATMS
2	Cable High Speed Access	N/A	Point-to-Point Protocol, IPv4/v6
3	Ethernet Interface	<ol style="list-style-type: none"> <li>1. 1 Mbps up to 1 GbE (Gigabit Ethernet)</li> <li>2. 10 GbE</li> </ol>	IPv4/v6 over Ethernet
4	Frame Relay Service (FRS)	<ol style="list-style-type: none"> <li>1. Fractional T1</li> <li>2. T1</li> <li>3. Fractional T3</li> <li>4. T3</li> </ol>	IPv4/v6 over FRS
5	IP over SONET Service	<ol style="list-style-type: none"> <li>1. OC-3c</li> <li>2. OC-12c</li> <li>3. OC-48c</li> <li>4. OC-192c</li> </ol>	IP/PPP over SONET
6	Private Line Service (PLS)	<ol style="list-style-type: none"> <li>1. Fractional T1</li> <li>2. T1</li> <li>3. Fractional T3</li> <li>4. T3</li> <li>5. OC-3c</li> <li>6. OC-12c</li> <li>7. OC-48c</li> <li>8. OC-192c</li> </ol>	IPv4/v6 over PLS
7	DSL Service	xDSL access	Point-to-point protocol, IPv4/v6

The Contractor shall offer the InFRa Services detailed in Table 5.2.4.1.b. Bidders shall identify the Interface/Access Type(s), Network Side Interface(s) (if applicable), and the Protocol(s) applicable to each speed listed in Table 5.2.4.1.b. Bidders must provide at least one (1) service/solution for each InFRa speed listed in Table 5.2.4.1.b. Additional Internet Flat Rate Services that utilize different UNI's with different product identifiers and associated costs should be listed in an Unsolicited table in the same fashion as Table 5.2.4.1.b.

Table 5.2.4.1.b – Internet Flat Rate Service

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
1	<b>InFRa @ 1.544Mbps</b>	Internet Flat Rate Service (InFRa) at 1.544Mbps. Includes dedicated Internet port and transport.	Y		<b>IFRA1544</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (InFRa) (Verizon Internet Dedicated Access T1 Price Protect Service) using a dedicated T1 circuit to provide download/upload speed of 1.536Mbps. Includes dedicated Internet port and transport.				
	Interface/Access Type: Private Line Services (PLS)				
	Network Side Interface: T1				
	Protocol: IPv4/v6 over PLS				
2	<b>InFRa @ 2Mbps</b>	Internet Flat Rate Service (InFRa) at 2Mbps. Includes dedicated Internet port and transport.	Y		<b>INFR0002</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (InFRa) (Verizon Internet Dedicated Access NxT1 Price Protect Service) using 2 dedicated T1 circuits to provide download/upload speed of 3.072Mbps. Includes dedicated Internet port and transport.				
	Interface/Access Type: Private Line Services (PLS)				
	Network Side Interface: T1				
	Protocol: IPv4/v6 over PLS				
3	<b>InFRa @ 3Mbps</b>	Internet Flat Rate Service (InFRa) at 3Mbps. Includes dedicated Internet port and transport.	Y		<b>INFR0003</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (InFRa) (Verizon Internet Dedicated Access NxT1 Price Protect Service) using 2 dedicated T1 circuits to provide download/upload speed of 3.072Mbps. Includes dedicated Internet port and transport.				
	Interface/Access Type: Private Line Services (PLS)				
	Network Side Interface: T1				
	Protocol: IPv4/v6 over PLS				

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
4	<b>InFRa @ 4Mbps</b>	Internet Flat Rate Service (InFRa) at 4Mbps. Includes dedicated Internet port and transport.	Y		<b>INFR0004</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (InFRa) (Verizon Internet Dedicated Access NxT1 Price Protect Service) using 3 dedicated T1 circuits to provide download/upload speed of 4.608Mbps. Includes dedicated Internet port and transport.				
	Interface/Access Type: Private Line Services (PLS)				
	Network Side Interface: T1				
	Protocol: IPv4/v6 over PLS				
5	<b>InFRa @ 4.5Mbps</b>	Internet Flat Rate Service (InFRa) at 4.5Mbps. Includes dedicated Internet port and transport.	Y		<b>INFR4005</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (InFRa) (Verizon Internet Dedicated Access NxT1 Price Protect Service) using 3 dedicated T1 circuits to provide download/upload speed of 4.608Mbps. Includes dedicated Internet port and transport.				
	Interface/Access Type: Private Line Services (PLS)				
	Network Side Interface: T1				
	Protocol: IPv4/v6 over PLS				
6	<b>InFRa @ 5Mbps</b>	Internet Flat Rate Service (InFRa) at 5Mbps. Includes dedicated Internet port and transport.	Y		<b>INFR0005</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (InFRa) (Verizon Internet Dedicated Ethernet Tiered Service) to provide download/upload speed of 5Mbps. Includes dedicated Internet port and transport.				
	Interface/Access Type: Ethernet Interface				
	Network Side Interface: 1Mbps to 1GbE (Gigabit Ethernet)				
	Protocol: IPv4/v6 over Ethernet				
7	<b>InFRa @ 6Mbps</b>	Internet Flat Rate Service (InFRa) at 6Mbps. Includes dedicated Internet port and transport.	Y		<b>INFR0006</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (InFRa) (Verizon Internet Dedicated Ethernet Tiered Service) to provide download/upload speed of 10Mbps. Includes dedicated Internet port and transport.				
	Interface/Access Type: Ethernet Interface				
	Network Side Interface: 1Mbps to 1GbE (Gigabit Ethernet)				

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
	Protocol: IPv4/v6 over Ethernet				
8	<b>InFRa @ 7Mbps</b>	Internet Flat Rate Service (InFRa) at 7Mbps. Includes dedicated Internet port and transport.	Y		<b>INFR0007</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (InFRa) (Verizon Internet Dedicated Ethernet Tiered Service) to provide download/upload speed of 10Mbps. Includes dedicated Internet port and transport.				
	Interface/Access Type: Ethernet Interface				
	Network Side Interface: 1Mbps to 1GbE (Gigabit Ethernet)				
	Protocol: IPv4/v6 over Ethernet				
9	<b>InFRa @ 7.5Mbps</b>	Internet Flat Rate Service (InFRa) at 7.5Mbps. Includes dedicated Internet port and transport.	Y		<b>INFR7005</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (InFRa) (Verizon Internet Dedicated Ethernet Tiered Service) to provide download/upload speed of 10Mbps. Includes dedicated Internet port and transport.				
	Interface/Access Type: Ethernet Interface				
	Network Side Interface: 1Mbps to 1GbE (Gigabit Ethernet)				
	Protocol: IPv4/v6 over Ethernet				
10	<b>InFRa @ 8Mbps</b>	Internet Flat Rate Service (InFRa) at 8Mbps. Includes dedicated Internet port and transport.	Y		<b>INFR0008</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (InFRa) (Verizon Internet Dedicated Ethernet Tiered Service) to provide download/upload speed of 10Mbps. Includes dedicated Internet port and transport.				
	Interface/Access Type: Ethernet Interface				
	Network Side Interface: 1Mbps to 1GbE (Gigabit Ethernet)				
	Protocol: IPv4/v6 over Ethernet				
11	<b>InFRa @ 9Mbps</b>	Internet Flat Rate Service (InFRa) at 9Mbps. Includes dedicated Internet port and transport.	Y		<b>INFR0009</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (InFRa) (Verizon Internet Dedicated Ethernet Tiered Service) to provide download/upload speed of 10Mbps. Includes dedicated Internet port and transport.				
	Interface/Access Type: Ethernet Interface				
	Network Side Interface: 1Mbps to 1GbE (Gigabit Ethernet)				

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
	Protocol: IPv4/v6 over Ethernet				
12	<b>InFRa @ 10Mbps</b>	Internet Flat Rate Service (InFRa) at 10Mbps. Includes dedicated Internet port and transport.	Y		<b>INFR0010</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (InFRa) (Verizon Internet Dedicated Ethernet Tiered Service) to provide download/upload speed of 10Mbps. Includes dedicated Internet port and transport.				
	Interface/Access Type: Ethernet Interface				
	Network Side Interface: 1Mbps to 1GbE (Gigabit Ethernet)				
	Protocol: IPv4/v6 over Ethernet				
13	<b>InFRa @ 10.5Mbps</b>	Internet Flat Rate Service (InFRa) at 10.5Mbps. Includes dedicated Internet port and transport.	Y		<b>INFR1005</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (InFRa) (Verizon Internet Dedicated Ethernet Tiered Service) to provide download/upload speed of 20Mbps. Includes dedicated Internet port and transport.				
	Interface/Access Type: Ethernet Interface				
	Network Side Interface: 1Mbps to 1GbE (Gigabit Ethernet)				
	Protocol: IPv4/v6 over Ethernet				
14	<b>InFRa @ 12Mbps</b>	Internet Flat Rate Service (InFRa) at 12Mbps. Includes dedicated Internet port and transport.	Y		<b>INFR0012</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (InFRa) (Verizon Internet Dedicated Ethernet Tiered Service) to provide download/upload speed of 20Mbps. Includes dedicated Internet port and transport.				
	Interface/Access Type: Ethernet Interface				
	Network Side Interface: 1Mbps to 1GbE (Gigabit Ethernet)				
	Protocol: IPv4/v6 over Ethernet				
15	<b>InFRa @ 15Mbps</b>	Internet Flat Rate Service (InFRa) at 15Mbps. Includes dedicated Internet port and transport.	Y		<b>INFR0015</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (InFRa) (Verizon Internet Dedicated Ethernet Tiered Service) to provide download/upload speed of 20Mbps. Includes dedicated Internet port and transport.				
	Interface/Access Type: Ethernet Interface				
	Network Side Interface: 1Mbps to 1GbE (Gigabit Ethernet)				

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
	Protocol: IPv4/v6 over Ethernet				
16	<b>InFRa @ 20Mbps</b>	Internet Flat Rate Service (InFRa) at 20Mbps. Includes dedicated Internet port and transport.	Y		<b>INFR0020</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (InFRa) (Verizon Internet Dedicated Ethernet Tiered Service) to provide download/upload speed of 20Mbps. Includes dedicated Internet port and transport.				
	Interface/Access Type: Ethernet Interface				
	Network Side Interface: 1Mbps to 1GbE (Gigabit Ethernet)				
	Protocol: IPv4/v6 over Ethernet				
17	<b>InFRa @ 25Mbps</b>	Internet Flat Rate Service (InFRa) at 25Mbps. Includes dedicated Internet port and transport.	Y		<b>INFR0025</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (InFRa) (Verizon Internet Dedicated Ethernet Tiered Service) to provide download/upload speed of 30Mbps. Includes dedicated Internet port and transport.				
	Interface/Access Type: Ethernet Interface				
	Network Side Interface: 1Mbps to 1GbE (Gigabit Ethernet)				
	Protocol: IPv4/v6 over Ethernet				
18	<b>InFRa @ 30Mbps</b>	Internet Flat Rate Service (InFRa) at 30Mbps. Includes dedicated Internet port and transport.	Y		<b>INFR0030</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (InFRa) (Verizon Internet Dedicated Ethernet Tiered Service) to provide download/upload speed of 30Mbps. Includes dedicated Internet port and transport.				
	Interface/Access Type: Ethernet Interface				
	Network Side Interface: 1Mbps to 1GbE (Gigabit Ethernet)				
	Protocol: IPv4/v6 over Ethernet				
19	<b>InFRa @ 35Mbps</b>	Internet Flat Rate Service (InFRa) at 35Mbps. Includes dedicated Internet port and transport.	Y		<b>INFR0035</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (InFRa) (Verizon Internet Dedicated Ethernet Tiered Service) to provide download/upload speed of 40Mbps. Includes dedicated Internet port and transport.				
	Interface/Access Type: Ethernet Interface				
	Network Side Interface: 1Mbps to 1GbE (Gigabit Ethernet)				

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
	Protocol: IPv4/v6 over Ethernet				
20	<b>InFRa @ 40Mbps</b>	Internet Flat Rate Service (InFRa) at 40Mbps. Includes dedicated Internet port and transport.	Y		<b>INFR0040</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (InFRa) (Verizon Internet Dedicated Ethernet Tiered Service) to provide download/upload speed of 40Mbps. Includes dedicated Internet port and transport.				
	Interface/Access Type: Ethernet Interface				
	Network Side Interface: 1Mbps to 1GbE (Gigabit Ethernet)				
	Protocol: IPv4/v6 over Ethernet				
21	<b>InFRa @ 45Mbps</b>	Internet Flat Rate Service (InFRa) at 45Mbps. Includes dedicated Internet port and transport.	Y		<b>INFR0045</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (InFRa) (Verizon Internet Dedicated Ethernet Tiered Service) to provide download/upload speed of 50Mbps. Includes dedicated Internet port and transport.				
	Interface/Access Type: Ethernet Interface				
	Network Side Interface: 1Mbps to 1GbE (Gigabit Ethernet)				
	Protocol: IPv4/v6 over Ethernet				
22	<b>InFRa @ 60Mbps</b>	Internet Flat Rate Service (InFRa) at 60Mbps. Includes dedicated Internet port and transport.	Y		<b>INFR0060</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (InFRa) (Verizon Internet Dedicated Ethernet Tiered Service) to provide download/upload speed of 100Mbps. Includes dedicated Internet port and transport.				
	Interface/Access Type: Ethernet Interface				
	Network Side Interface: 1Mbps to 1GbE (Gigabit Ethernet)				
	Protocol: IPv4/v6 over Ethernet				
23	<b>InFRa @ 155Mbps</b>	Internet Flat Rate Service (InFRa) at 155Mbps. Includes dedicated Internet port and transport.	Y		<b>INFR0155</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (InFRa) (Verizon Internet Dedicated Ethernet Tiered Service) to provide download/upload speed of 200Mbps. Includes dedicated Internet port and transport.				
	Interface/Access Type: Ethernet Interface				
	Network Side Interface: 1Mbps to 1GbE (Gigabit Ethernet)				

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
	Protocol: IPv4/v6 over Ethernet				
24	<b>InFRa @ 622Mbps</b>	Internet Flat Rate Service (InFRa) at 622Mbps. Includes dedicated Internet port and transport.	Y		<b>INFR0622</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (InFRa) (Verizon Internet Dedicated Ethernet Tiered Service) to provide download/upload speed of 700Mbps. Includes dedicated Internet port and transport.				
	Interface/Access Type: Ethernet Interface				
	Network Side Interface: 1Mbps to 1GbE (Gigabit Ethernet)				
	Protocol: IPv4/v6 over Ethernet				
25	<b>InFRa @ 2.45Gbps</b>	Internet Flat Rate Service (InFRa) at 2.45Gbps. Includes dedicated Internet port and transport.	Y		<b>INFR0245</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (InFRa) (Verizon Internet Dedicated Access OC48 Price Protect) using a dedicated OC48 (2.88Gbps) circuit to provide download/upload speed of 2.88Gbps. Includes dedicated Internet port and transport.				
	Interface/Access Type: Private Line Services (PLS)				
	Network Side Interface: OC-48c				
	Protocol: IPv4/v6 over PLS				

Table 5.2.4.1.c – Unsolicited Internet Flat Rate Service

	Feature Name	Feature Description	Bidder's Product Identifier
1			
	Bidder's Product Description:		
	Interface/Access Type:		
	Network Side Interface:		
	Protocol:		

2			
	Bidder's Product Description:		
	Interface/Access Type:		
	Network Side Interface:		
	Protocol:		

**5.2.4.2 Internet Flat Rate with Managed Router Service (InFRaM)**

*The Contractor shall provide Internet Flat Rate with Managed Router Service at the speeds identified in Table 5.2.4.2.b. The services shall consist of a dedicated Internet Port and Transport from the Customer site to the nearest contractor POP. The service shall include all equipment, cabling and labor required to provide a UNI at the Customer premise MPOE and a Contractor owned, maintained and managed router.*

*The service shall include a Contractor owned, maintained and managed router. Bidder shall provide a description of the type of equipment, maintenance and management services that the Contractor will deploy to satisfy this requirement.*

*All Bidder equipment, tasks and services required for provisioning of the services described in Table 5.2.4.2.b will be included in the charges for the features/services listed in those tables unless specifically identified as not part of the mandatory service and proposed in Tables 5.2.4.2.c.*

*The Contractor's managed router service shall include proactive Customer notification as identified in the Service Level Agreements.*

**Bidder understands the Requirement and shall meet or exceed it? Yes  No**

**Description:**

Verizon will provide Internet Flat Rate with Managed Router Service at the speeds identified in Table 5.2.4.2.b. Verizon services will consist of a dedicated Internet Port and Transport from the Customer site to the nearest Verizon POP. The Verizon service will include all equipment, cabling and labor required to provide a UNI at the Customer premise MPOE and a Verizon owned, maintained and managed router.

Verizon will provide a fully owned, maintained, and managed service which includes device availability, health monitoring, fault isolation, trouble ticket generation, and proactive outage notification.

All equipment, tasks and services required for provisioning of the services described in Table 5.2.4.2.b will be included in the charges for the features/services listed in those tables unless specifically identified as not part of the mandatory service and proposed in Tables 5.2.4.2.c.

The Verizon managed router service will include proactive Customer notification as identified in the Service Level Agreements.

Table 5.2.4.2.a - InFRaM UNI Guide

	Interface/Access Type	Network-Side Interface	Protocol
1	Asynchronous Transfer Mode Service (ATMS)	<ol style="list-style-type: none"> <li>1. T1</li> <li>2. T3</li> <li>3. OC-3c</li> <li>4. OC-12c</li> </ol>	IPv4/v6 over ATMS
2	Cable High Speed Access	N/A	Point-to-Point Protocol, IPv4/v6
3	Ethernet Interface	<ol style="list-style-type: none"> <li>1. 1 Mbps up to 1 GbE (Gigabit Ethernet)</li> <li>2. 10 GbE</li> </ol>	IPv4/v6 over Ethernet
4	Frame Relay Service (FRS)	<ol style="list-style-type: none"> <li>1. Fractional T1</li> <li>2. T1</li> <li>3. Fractional T3</li> <li>4. T3</li> </ol>	IPv4/v6 over FRS
5	IP over SONET Service	<ol style="list-style-type: none"> <li>1. OC-3c</li> <li>2. OC-12c</li> <li>3. OC-48c</li> <li>4. OC-192c</li> </ol>	IP/PPP over SONET
6	Private Line Service (PLS)	<ol style="list-style-type: none"> <li>1. Fractional T1</li> <li>2. T1</li> <li>3. Fractional T3</li> <li>4. T3</li> <li>5. OC-3c</li> <li>6. OC-12c</li> <li>7. OC-48c</li> <li>8. OC-192c</li> </ol>	IPv4/v6 over PLS
7	DSL Service	xDSL access	Point-to-point protocol, IPv4/v6

The Contractor shall offer the InFRaM Services detailed in Table 5.2.4.2.b. Bidders shall include the Interface/Access Type(s), Network Side Interface(s) (if applicable), and the Protocol(s) applicable to each speed listed in Table 5.2.4.2.b. Bidders must provide at least one (1) solution for each InFRaM speed listed in Table 5.2.4.2.b.

Table 5.2.4.2.b – Internet Flat Rate with Managed Router (InFRaM) Service

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
1	<b>InFRaM @ 1.544Mbps</b>	Internet Flat Rate Service with Managed Router (InFRaM) at 1.544Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		<b>IFRM1544</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (Verizon Internet Dedicated Access Price Protect Service) with Managed Router (InFRaM) at 1.544Mbps with a managed router. Includes dedicated Internet port, transport, and a Verizon owned, maintained and managed router.				
	Interface/Access Type: Private Line Services (PLS)				
	Network Side Interface: T1				
	Protocol: IPv4/v6 over PLS				
2	<b>InFRaM @ 2Mbps</b>	Internet Flat Rate Service with Managed Router (InFRaM) at 2Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		<b>INFM0002</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (Verizon NxT1 Price Protect Service) with Managed Router (InFRaM) using 2 dedicated T1 (at 3.072Mbps) circuits with a managed router. Includes dedicated Internet port, transport, and a Verizon owned, maintained and managed router.				
	Interface/Access Type: Private Line Services (PLS)				
	Network Side Interface: T1				
	Protocol: IPv4/v6 over PLS				
3	<b>InFRaM @ 3Mbps</b>	Internet Flat Rate Service with Managed Router (InFRaM) at 3Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		<b>INFM0003</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (Verizon NxT1 Price Protect Service) with Managed Router (InFRaM) using 2 dedicated T1 (at 3.072Mbps) circuits with a managed router. Includes dedicated Internet port, transport, and a Verizon owned, maintained and managed router.				
	Interface/Access Type: Private Line Services (PLS)				
	Network Side Interface: T1				
	Protocol: IPv4/v6 over PLS				

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
4	<b>InFRaM @ 4Mbps</b>	Internet Flat Rate Service with Managed Router (InFRaM) at 4Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		<b>INFM0004</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (Verizon NxT1 Price Protect Service) with Managed Router (InFRaM) using 3 dedicated T1 (at 4.608Mbps) circuits with a managed router. Includes dedicated Internet port, transport, and a Verizon owned, maintained and managed router.				
	Interface/Access Type: Private Line Services (PLS)				
	Network Side Interface: T1				
	Protocol: IPv4/v6 over PLS				
5	<b>InFRaM @ 4.5Mbps</b>	Internet Flat Rate Service with Managed Router (InFRaM) at 4.5Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		<b>INFM4005</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (Verizon NxT1 Price Protect Service) with Managed Router (InFRaM) using 3 dedicated T1 (at 4.608Mbps) circuits with a managed router. Includes dedicated Internet port, transport, and a Verizon owned, maintained and managed router.				
	Interface/Access Type: Private Line Services (PLS)				
	Network Side Interface: T1				
	Protocol: IPv4/v6 over PLS				
6	<b>InFRaM @ 5Mbps</b>	Internet Flat Rate Service with Managed Router (InFRaM) at 5Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		<b>INFM0005</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (Verizon Internet Dedicated Ethernet Tiered Service) with Managed Router (InFRaM) at 5Mbps with a managed router. Includes dedicated Internet port, transport, and a Verizon owned, maintained and managed router.				
	Interface/Access Type: Ethernet Interface				
	Network Side Interface: 1Mbps to 1GbE (Gigabit Ethernet)				
	Protocol: IPv4/v6 over Ethernet				

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
7	<b>InFRaM @ 6Mbps</b>	Internet Flat Rate Service with Managed Router (InFRaM) at 6Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		<b>INFM0006</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (Verizon Internet Dedicated Ethernet Tiered Service) with Managed Router (InFRaM) at 10Mbps with a managed router. Includes dedicated Internet port, transport, and a Verizon owned, maintained and managed router.				
	Interface/Access Type: Ethernet Interface				
	Network Side Interface: 1Mbps to 1GbE (Gigabit Ethernet)				
	Protocol: IPv4/v6 over Ethernet				
8	<b>InFRaM @ 7Mbps</b>	Internet Flat Rate Service with Managed Router (InFRaM) at 7Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		<b>INFM0007</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (Verizon Internet Dedicated Ethernet Tiered Service) with Managed Router (InFRaM) at 10Mbps with a managed router. Includes dedicated Internet port, transport, and a Verizon owned, maintained and managed router.				
	Interface/Access Type: Ethernet Interface				
	Network Side Interface: 1Mbps to 1GbE (Gigabit Ethernet)				
	Protocol: IPv4/v6 over Ethernet				
9	<b>InFRaM @ 7.5Mbps</b>	Internet Flat Rate Service with Managed Router (InFRaM) at 7.5Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		<b>INFM7005</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (Verizon Internet Dedicated Ethernet Tiered Service) with Managed Router (InFRaM) at 10Mbps with a managed router. Includes dedicated Internet port, transport, and a Verizon owned, maintained and managed router.				
	Interface/Access Type: Ethernet Interface				
Network Side Interface: 1Mbps to 1GbE (Gigabit Ethernet)					

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
	Protocol: IPv4/v6 over Ethernet				
10	<b>InFRaM @ 8Mbps</b>	Internet Flat Rate Service with Managed Router (InFRaM) at 8Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		<b>INFM0008</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (Verizon Internet Dedicated Ethernet Tiered Service) with Managed Router (InFRaM) at 10Mbps with a managed router. Includes dedicated Internet port, transport, and a Verizon owned, maintained and managed router.				
	Interface/Access Type: Ethernet Interface				
	Network Side Interface: 1Mbps to 1GbE (Gigabit Ethernet)				
	Protocol: IPv4/v6 over Ethernet				
11	<b>InFRaM @ 9Mbps</b>	Internet Flat Rate Service with Managed Router (InFRaM) at 9Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		<b>INFM0009</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (Verizon Internet Dedicated Ethernet Tiered Service) with Managed Router (InFRaM) at 10Mbps with a managed router. Includes dedicated Internet port, transport, and a Verizon owned, maintained and managed router.				
	Interface/Access Type: Private Line Services (PLS)				
	Network Side Interface: T3				
	Protocol: IPv4/v6 over PLS				
12	<b>InFRaM @ 10Mbps</b>	Internet Flat Rate Service with Managed Router (InFRaM) at 10Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		<b>INFM0010</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (Verizon Internet Dedicated Ethernet Tiered Service) with Managed Router (InFRaM) at 10Mbps with a managed router. Includes dedicated Internet port, transport, and a Verizon owned, maintained and managed router.				
	Interface/Access Type: Ethernet Interface				
	Network Side Interface: 1Mbps to 1GbE (Gigabit Ethernet)				

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
	Protocol: IPv4/v6 over Ethernet				
13	<b>InFRaM @ 10.5Mbps</b>	Internet Flat Rate Service with Managed Router (InFRaM) at 10.5Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		<b>INFM1005</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (Verizon Internet Dedicated Ethernet Tiered Service) with Managed Router (InFRaM) at 20Mbps with a managed router. Includes dedicated Internet port, transport, and a Verizon owned, maintained and managed router.				
	Interface/Access Type: Ethernet Interface				
	Network Side Interface: 1Mbps to 1GbE (Gigabit Ethernet)				
	Protocol: IPv4/v6 over Ethernet				
14	<b>InFRaM @ 12Mbps</b>	Internet Flat Rate Service with Managed Router (InFRaM) at 12Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		<b>INFM0012</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (Verizon Internet Dedicated Ethernet Tiered Service) with Managed Router (InFRaM) at 20Mbps with a managed router. Includes dedicated Internet port, transport, and a Verizon owned, maintained and managed router.				
	Interface/Access Type: Ethernet Interface				
	Network Side Interface: 1Mbps to 1GbE (Gigabit Ethernet)				
	Protocol: IPv4/v6 over Ethernet				
15	<b>InFRaM @ 15Mbps</b>	Internet Flat Rate Service with Managed Router (InFRaM) at 15Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		<b>INFM0015</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (Verizon Internet Dedicated Ethernet Tiered Service) with Managed Router (InFRaM) at 20Mbps with a managed router. Includes dedicated Internet port, transport, and a Verizon owned, maintained and managed router.				
	Interface/Access Type: Ethernet Interface				
	Network Side Interface: 1Mbps to 1GbE (Gigabit Ethernet)				

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
	Protocol: IPv4/v6 over Ethernet				
16	<b>InFRaM @ 20Mbps</b>	Internet Flat Rate Service with Managed Router (InFRaM) at 20Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		<b>INFM0020</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (Verizon Internet Dedicated Ethernet Tiered Service) with Managed Router (InFRaM) at 20Mbps with a managed router. Includes dedicated Internet port, transport, and a Verizon owned, maintained and managed router.				
	Interface/Access Type: Ethernet Interface				
	Network Side Interface: 1Mbps to 1GbE (Gigabit Ethernet)				
	Protocol: IPv4/v6 over Ethernet				
17	<b>InFRaM @ 25Mbps</b>	Internet Flat Rate Service with Managed Router (InFRaM) at 25Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		<b>INFM0025</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (Verizon Internet Dedicated Ethernet Tiered Service) with Managed Router (InFRaM) at 30Mbps with a managed router. Includes dedicated Internet port, transport, and a Verizon owned, maintained and managed router.				
	Interface/Access Type: Ethernet Interface				
	Network Side Interface: 1Mbps to 1GbE (Gigabit Ethernet)				
	Protocol: IPv4/v6 over Ethernet				
18	<b>InFRaM @ 30Mbps</b>	Internet Flat Rate Service with Managed Router (InFRaM) at 30Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		<b>INFM0030</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (Verizon Internet Dedicated Ethernet Tiered Service) with Managed Router (InFRaM) at 30Mbps with a managed router. Includes dedicated Internet port, transport, and a Verizon owned, maintained and managed router.				
	Interface/Access Type: Ethernet Interface				
	Network Side Interface: 1Mbps to 1GbE (Gigabit Ethernet)				

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
	Protocol: IPv4/v6 over Ethernet				
19	<b>InFRaM @ 35Mbps</b>	Internet Flat Rate Service with Managed Router (InFRaM) at 35Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		<b>INFM0035</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (Verizon Internet Dedicated Ethernet Tiered Service) with Managed Router (InFRaM) at 40Mbps with a managed router. Includes dedicated Internet port, transport, and a Verizon owned, maintained and managed router.				
	Interface/Access Type: Ethernet Interface				
	Network Side Interface: 1Mbps to 1GbE (Gigabit Ethernet)				
	Protocol: IPv4/v6 over Ethernet				
20	<b>InFRaM @ 40Mbps</b>	Internet Flat Rate Service with Managed Router (InFRaM) at 40Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		<b>INFM0040</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (Verizon Internet Dedicated Ethernet Tiered Service) with Managed Router (InFRaM) at 40Mbps with a managed router. Includes dedicated Internet port, transport, and a Verizon owned, maintained and managed router.				
	Interface/Access Type: Ethernet Interface				
	Network Side Interface: 1Mbps to 1GbE (Gigabit Ethernet)				
	Protocol: IPv4/v6 over Ethernet				
21	<b>InFRaM @ 45Mbps</b>	Internet Flat Rate Service with Managed Router (InFRaM) at 45Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		<b>INFM0045</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (Verizon Internet Dedicated Ethernet Tiered Service) with Managed Router (InFRaM) at 50Mbps with a managed router. Includes dedicated Internet port, transport, and a Verizon owned, maintained and managed router.				
	Interface/Access Type: Ethernet Interface				
	Network Side Interface: 1Mbps to 1GbE (Gigabit Ethernet)				

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
	Protocol: IPv4/v6 over Ethernet				
22	<b>InFRaM @ 60Mbps</b>	Internet Flat Rate Service with Managed Router (InFRaM) at 60Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		<b>INFM0060</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (Verizon Internet Dedicated Ethernet Tiered Service) with Managed Router (InFRaM) at 100Mbps with a managed router. Includes dedicated Internet port, transport, and a Verizon owned, maintained and managed router.				
	Interface/Access Type: Ethernet Interface				
	Network Side Interface: 1Mbps to 1GbE (Gigabit Ethernet)				
	Protocol: IPv4/v6 over Ethernet				
23	<b>InFRaM @ 155Mbps</b>	Internet Flat Rate Service with Managed Router (InFRaM) at 155Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		<b>INFM0155</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (Verizon Internet Dedicated Ethernet Tiered Service) with Managed Router (InFRaM) at 200Mbps with a managed router. Includes dedicated Internet port, transport, and a Verizon owned, maintained and managed router.				
	Interface/Access Type: Ethernet Interface				
	Network Side Interface: 1Mbps to 1GbE (Gigabit Ethernet)				
	Protocol: IPv4/v6 over Ethernet				
24	<b>InFRaM @ 622Mbps</b>	Internet Flat Rate Service with Managed Router (InFRaM) at 622Mbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		<b>INFM0622</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (Verizon Internet Dedicated Ethernet Tiered Service) with Managed Router (InFRaM) at 700Mbps with a managed router. Includes dedicated Internet port, transport, and a Verizon owned, maintained and managed router.				
	Interface/Access Type: Ethernet Interface				
	Network Side Interface: 1Mbps to 1GbE (Gigabit Ethernet)				

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
	Protocol: IPv4/v6 over Ethernet				
25	<b>InFRaM @ 2.45Gbps</b>	Internet Flat Rate Service with Managed Router (InFRaM) at 2.45Gbps. Includes dedicated Internet port, transport, and a Contractor owned, maintained and managed router.	Y		<b>NFMG0245</b>
	<b>Bidder's Product Description:</b> Verizon will provide Internet Flat Rate Service (Verizon OC48 Price Protect Service) with Managed Router (InFRaM) using a dedicated OC48 (at 2.88Gbps) circuit with a managed router. Includes dedicated Internet port, transport, and a Verizon owned, maintained and managed router.				
	Interface/Access Type: Private Line Services (PLS)				
	Network Side Interface: OC-48c				
	Protocol: IPv4/v6 over PLS				

Table 5.2.4.2.c – Unsolicited Internet Flat Rate with Managed Router Service

	Feature Name	Feature Description	Bidder's Product Identifier
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### 5.2.5 INTERNET SUSTAINED BANDWIDTH ETHERNET SERVICE (InSBE)

The Contractor shall provide Internet Sustained Bandwidth Ethernet Service (InSBE). The service shall consist of a separately provisioned dedicated Internet port and transport from the Customer site to the nearest Contractor POP.

Service shall allow Customers to order Ethernet access at a specific data rate and to select a minimum monthly bandwidth commitment. Customers then pay an additional fee for sustained usage above the minimum commitment. Service shall allow Customers to "burst" up to the full capacity of the data rate assigned to the transport when needed.

**Bidder understands the Requirement and shall meet or exceed it? Yes  No**

#### 5.2.5.1 Internet Sustained Bandwidth Ethernet Transport Service (InSBET)

The Internet Sustained Bandwidth Ethernet Transport Service (InSBET) transport service shall include all equipment, cabling and labor required to provide a User-to-Network Interface (UNI) at the Customer premise MPOE.

Transport shall be provisioned at the data rates listed in Table 5.2.5.1.b. The assigned data rate shall be the maximum data rate a Customer may burst up to.

This service shall be provisioned in conjunction with Customer and Contractor owned, maintained and managed router options as identified in Section 5.2.5.2 (InSBEP) and Section 5.2.5.3 (InSBEPM).

The service shall provide the User-to-Network Interface characteristics listed in Table 5.2.5.1.a.

Table 5.2.5.1.a – UNI Type

	Interface/Access Type	Network-Side Interface	Protocol
1	Ethernet Interface	1. 1 Mbps up to 1 GbE (Gigabit Ethernet) 2. 10 GbE	IPv4/v6 over Ethernet

Bidder understands the Requirement and shall meet or exceed it? Yes X No \_\_\_\_\_

Bidders shall provide the InSBET services detailed in Table 5.2.5.1.b.

Table 5.2.5.1.b – InSBET Service

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
1	<b>InSBET 100-Base-TX 2 Mbps Ethernet Transport</b>	InSBET Service with maximum burstable data rate of 2Mbps.	Y		<b>INSB0002</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBET Service with maximum burstable data rate of 3Mbps using a 100Mbps Ethernet access circuit.				
2	<b>InSBET 100-Base-TX 4 Mbps Ethernet Transport</b>	InSBET Service with maximum burstable data rate of 4Mbps	Y		<b>INSB0004</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBET Service with maximum burstable data rate of 5Mbps using a 100Mbps Ethernet access circuit.				
3	<b>InSBET 100-Base-TX 5 Mbps Ethernet Transport</b>	InSBET Service with maximum burstable data rate of 5Mbps	Y		<b>INSB0005</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBET Service with maximum burstable data rate of 5Mbps using a 100Mbps Ethernet access circuit.				
4	<b>InSBET 100-Base-TX 8 Mbps Ethernet Transport</b>	InSBET Service with maximum burstable data rate of 8Mbps	Y		<b>INSB0008</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBET Service with maximum burstable data rate of 10Mbps using a 100Mbps Ethernet access circuit.				

	Feature Name	Feature Description	Bidder Meets or Exceeds?		Bidder's Product Identifier
			Y	N	
5	<b>InSBET 100-Base-TX 10 Mbps Ethernet Transport</b>	InSBET Service with maximum burstable data rate of 10Mbps	Y		<b>INSB0010</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBET Service with maximum burstable data rate of 10Mbps using a 100Mbps Ethernet access circuit.				
6	<b>InSBET 100-Base-TX 20 Mbps Ethernet Transport</b>	InSBET Service with maximum burstable data rate of 20Mbps	Y		<b>INSB0020</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBET Service with maximum burstable data rate of 20Mbps using a 100Mbps Ethernet access circuit.				
7	<b>InSBET 100-Base-TX 50 Mbps Ethernet Transport</b>	InSBET Service with maximum burstable data rate of 50Mbps	Y		<b>INSB0050</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBET Service with maximum burstable data rate of 50Mbps using a 100Mbps Ethernet access circuit.				
8	<b>InSBET 100-Base-TX 100 Mbps Ethernet Transport</b>	InSBET Service with maximum burstable data rate of 100Mbps	Y		<b>INSB0100</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBET Service with maximum burstable data rate of 100Mbps using a 100Mbps Ethernet access circuit.				
9	<b>InSBET 1000-Base-TX 150 Mbps Ethernet Transport</b>	InSBET Service with maximum burstable data rate of 150Mbps	Y		<b>INSB0150</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBET Service with maximum burstable data rate of 200Mbps using a 1Gbps Ethernet access circuit.				
10	<b>InSBET 1000-Base-TX 250 Mbps Ethernet Transport</b>	InSBET Service with maximum burstable data rate of 250Mbps	Y		<b>INSB0250</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBET Service with maximum burstable data rate of 300Mbps using a 1Gbps Ethernet access circuit.				
11	<b>InSBET 1000-Base-TX 500 Mbps Ethernet Transport</b>	InSBET Service with maximum burstable data rate of 500Mbps	Y		<b>INSB0500</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBET Service with maximum burstable data rate of 500Mbps using a 1Gbps Ethernet access circuit.				

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
12	<b>InSBET 1000-Base-TX 1000 Mbps Ethernet Transport</b>	InSBET Service with maximum burstable data rate of 1000Mbps	Y		<b>INSB1000</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBET Service with maximum burstable data rate of 1000Mbps using a 1Gbps Ethernet access circuit.				
13	<b>InSBET 10G-Base-LSR 10,000 Mbps Ethernet Transport</b>	InSBET Service with maximum burstable data rate of 10Gbps	Y		<b>ISBE0000</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBET Service with maximum burstable data rate of 10,000Mbps using a 10Gbps Ethernet access circuit.				

Bidders may offer additional unsolicited InSBET services in Table 5.2.5.1.c.

Table 5.2.5.1.c – Unsolicited InSBET Services

	Feature Name	Feature Description	Bidder's Product Identifier	

**5.2.5.2 Internet Sustained Bandwidth Ethernet Port Service (InSBEP)**

Contractor shall provide Internet Sustained Bandwidth Ethernet Port Service. Contractor shall provide an Internet port configuration that allows Customers to select a monthly minimum bandwidth commitment. Customers then pay an additional incremental usage charge for sustained usage above the monthly minimum bandwidth commitment. Service shall allow Customers to "burst" up to the full capacity of the InSBET when needed. This service shall be provisioned in conjunction with a Customer owned router.

**Bidder understands the Requirement and shall meet or exceed it? Yes  No**

**5.2.5.2.1 InSBEP Minimum Bandwidth Commitment**

Contractor shall provide InSBEP Minimum Bandwidth Commitment port configuration that allows Customers to select a monthly minimum bandwidth commitment as described in Table 5.2.5.2.a.

**Bidder understands the Requirement and shall meet or exceed it? Yes  No**

**5.2.5.2.2 InSBEP Additional Incremental Usage Charge for Sustained Usage**

Contractor may charge an incremental usage charge for sustained usage above the minimum bandwidth commitment speed identified.

Contractor shall calculate sustained usage as follows:

1. Poll Access Router every five (5) minutes and collect two (2) readings (average Octets in and Octets out over the five (5) minute period);
2. Both averages become data points (a total of 17,280 in a 30 day bill cycle) that are tracked over the Customer's monthly billing cycle;
3. All 17,280 data points are ranked in ascending order;
4. Discard the highest five (5) percentiles (or 864 measurements in a 30 day bill cycle); and
5. The remaining ninety-fifth percentile is the Sustained Usage value for billing purposes.

**Bidder understands the Requirement and shall meet or exceed it? Yes  No**

Table 5.2.5.2.a – InSBEP Minimum Bandwidth Commitment and Incremental Usage Charge for InSBET 100-Base-TX 2 Mbps through 1000-Base-SX/LX 1000 Mbps Ethernet Transport (NOT to be provisioned with InSBET 10G-Base-LSR 10,000 Mbps Ethernet Transport - see Table 5.2.5.2.b)

	Feature Name	Feature Description	Bidder Meets or Exceeds?		Bidder's Product Identifier
			Y	N	
1	<b>InSBEP Minimum Bandwidth Commitment Ethernet 2 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>NSBP0002</b>
<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 2 Mbps with the ability to burst up to transport speed.					

	Feature Name	Feature Description	Bidder Meets or Exceeds?		Bidder's Product Identifier
			Y	N	
2	<b>InSBEP Additional Incremental Usage Charge over 2 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>NSBO0002</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
3	<b>InSBEP Minimum Bandwidth Commitment Ethernet 3 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>NSBP0003</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 3 Mbps with the ability to burst up to transport speed.				
4	<b>InSBEP Additional Incremental Usage Charge over 3 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>NSBO0003</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment				
5	<b>InSBEP Minimum Bandwidth Commitment Ethernet 4 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>NSBP0004</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 4 Mbps with the ability to burst up to transport speed.				
6	<b>InSBEP Additional Incremental Usage Charge over 4 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>NSBO0004</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
7	<b>InSBEP Minimum Bandwidth Commitment Ethernet 5 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>NSBP0005</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 5 Mbps with the ability to burst up to transport speed.				

	Feature Name	Feature Description	Bidder Meets or Exceeds?		Bidder's Product Identifier
			Y	N	
8	<b>InSBEP Additional Incremental Usage Charge over 5 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>NSBO0005</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
9	<b>InSBEP Minimum Bandwidth Commitment Ethernet 6 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>NSBP0006</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 6 Mbps with the ability to burst up to transport speed				
10	<b>InSBEP Additional Incremental Usage Charge over 6 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>NSBO0006</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
11	<b>InSBEP Minimum Bandwidth Commitment Ethernet 7 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>NSBP0007</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 7 Mbps with the ability to burst up to transport speed				
12	<b>InSBEP Additional Incremental Usage Charge over 7 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>NSBO0007</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
13	<b>InSBEP Minimum Bandwidth Commitment Ethernet 8 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>NSBP0008</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 8 Mbps with the ability to burst up to transport speed				

	Feature Name	Feature Description	Bidder Meets or Exceeds?		Bidder's Product Identifier
			Y	N	
14	<b>InSBEP Additional Incremental Usage Charge over 8 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>NSBO0008</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
15	<b>InSBEP Minimum Bandwidth Commitment Ethernet 9 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>NSBP0009</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 9 Mbps with the ability to burst up to transport speed				
16	<b>InSBEP Additional Incremental Usage Charge over 9 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>NSBO0009</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
17	<b>InSBEP Minimum Bandwidth Commitment Ethernet 10 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>NSBP0010</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 10 Mbps with the ability to burst up to transport speed				
18	<b>InSBEP Additional Incremental Usage Charge over 10 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>NSBO0010</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
19	<b>InSBEP Minimum Bandwidth Commitment Ethernet 15 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>NSBP0015</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 15 Mbps with the ability to burst up to transport speed				

	Feature Name	Feature Description	Bidder Meets or Exceeds?		Bidder's Product Identifier
			Y	N	
20	<b>InSBEP Additional Incremental Usage Charge over 15 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>NSBO0015</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
21	<b>InSBEP Minimum Bandwidth Commitment Ethernet 20 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>NSPB0020</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 20 Mbps with the ability to burst up to transport speed				
22	<b>InSBEP Additional Incremental Usage Charge over 20 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>NSBO0020</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
23	<b>InSBEP Minimum Bandwidth Commitment Ethernet 25 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>NSBP0025</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 25 Mbps with the ability to burst up to transport speed				
24	<b>InSBEP Additional Incremental Usage Charge over 25 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>NSBO0025</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
25	<b>InSBEP Minimum Bandwidth Commitment Ethernet 30 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>NSBP0030</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 30 Mbps with the ability to burst up to transport speed				

	Feature Name	Feature Description	Bidder Meets or Exceeds?		Bidder's Product Identifier
			Y	N	
26	<b>InSBEP Additional Incremental Usage Charge over 30 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>NSBO0030</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
27	<b>InSBEP Minimum Bandwidth Commitment Ethernet 35 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>NSBP0035</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 35 Mbps with the ability to burst up to transport speed				
28	<b>InSBEP Additional Incremental Usage Charge over 35 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>NSBO0035</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
29	<b>InSBEP Minimum Bandwidth Commitment Ethernet 40 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>NSBP0040</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 40 Mbps with the ability to burst up to transport speed				
30	<b>InSBEP Additional Incremental Usage Charge over 40 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>NSBO0040</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
31	<b>InSBEP Minimum Bandwidth Commitment Ethernet 45 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>NSBP0045</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 45 Mbps with the ability to burst up to transport speed				

	Feature Name	Feature Description	Bidder Meets or Exceeds?		Bidder's Product Identifier
			Y	N	
32	<b>InSBEP Additional Incremental Usage Charge over 45 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>NSBO0045</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
33	<b>InSBEP Minimum Bandwidth Commitment Ethernet 50 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>NSBP0050</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 50 Mbps with the ability to burst up to transport speed				
34	<b>InSBEP Additional Incremental Usage Charge over 50 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>NSBO0050</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
35	<b>InSBEP Minimum Bandwidth Commitment Ethernet 60 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>NSBP0060</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 60 Mbps with the ability to burst up to transport speed				
36	<b>InSBEP Additional Incremental Usage Charge over 60 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>NSBO0060</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
37	<b>InSBEP Minimum Bandwidth Commitment Ethernet 70 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>NSBP0070</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 70 Mbps with the ability to burst up to transport speed				

	Feature Name	Feature Description	Bidder Meets or Exceeds?		Bidder's Product Identifier
			Y	N	
38	<b>InSBEP Additional Incremental Usage Charge over 70 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>NSBO0070</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
39	<b>InSBEP Minimum Bandwidth Commitment Ethernet 80 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>NSBP0080</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 80 Mbps with the ability to up to transport speed				
40	<b>InSBEP Additional Incremental Usage Charge over 80 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>NSBO0080</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
41	<b>InSBEP Minimum Bandwidth Commitment Ethernet 90 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>NSBP0090</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 90 Mbps with the ability to burst up to transport speed				
42	<b>InSBEP Additional Incremental Usage Charge over 90 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>NSBO0090</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
43	<b>InSBEP Minimum Bandwidth Commitment Ethernet 100 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>NSBP0100</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 100 Mbps with the ability to burst up to transport speed				

	Feature Name	Feature Description	Bidder Meets or Exceeds?		Bidder's Product Identifier
			Y	N	
44	<b>InSBEP Additional Incremental Usage Charge over 100 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>NSBO0100</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
45	<b>InSBEP Minimum Bandwidth Commitment Ethernet 120 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>NSBP0120</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 120 Mbps with the ability to burst up to transport speed				
46	<b>InSBEP Additional Incremental Usage Charge over 120 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>NSBO0120</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
47	<b>InSBEP Minimum Bandwidth Commitment Ethernet 144 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>NSBP0144</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 144 Mbps with the ability to burst up to transport speed				
48	<b>InSBEP Additional Incremental Usage Charge over 144 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>NSBO0144</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
49	<b>InSBEP Minimum Bandwidth Commitment Ethernet 155 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>NSBP0155</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 155 Mbps with the ability to burst up to transport speed				

	Feature Name	Feature Description	Bidder Meets or Exceeds?		Bidder's Product Identifier
			Y	N	
50	<b>InSBEP Additional Incremental Usage Charge over 155 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>NSBO0155</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
51	<b>InSBEP Minimum Bandwidth Commitment Ethernet 200 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>NSBP0200</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 200 Mbps with the ability to burst up to transport speed				
52	<b>InSBEP Additional Incremental Usage Charge over 200 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>NSBO0200</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
53	<b>InSBEP Minimum Bandwidth Commitment Ethernet 250 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>NSBP0250</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 250 Mbps with the ability to burst up to transport speed				
54	<b>InSBEP Additional Incremental Usage Charge over 250 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>NSBO0250</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
55	<b>InSBEP Minimum Bandwidth Commitment Ethernet 300 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>NSBP0300</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 300 Mbps with the ability to burst up to transport speed				

	Feature Name	Feature Description	Bidder Meets or Exceeds?		Bidder's Product Identifier
			Y	N	
56	<b>InSBEP Additional Incremental Usage Charge over 300 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>NSBO0300</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
57	<b>InSBEP Minimum Bandwidth Commitment Ethernet 350 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>NSBP0350</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 350 Mbps with the ability to burst up to transport speed				
58	<b>InSBEP Additional Incremental Usage Charge over 350 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>NSBO0350</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
59	<b>InSBEP Minimum Bandwidth Commitment Ethernet 400 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>NSBP0400</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 400 Mbps with the ability to burst up to transport speed				
60	<b>InSBEP Additional Incremental Usage Charge over 400 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>NSBO0400</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
61	<b>InSBEP Minimum Bandwidth Commitment Ethernet 450 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>NSBP0450</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 450 Mbps with the ability to burst up to transport speed				

	Feature Name	Feature Description	Bidder Meets or Exceeds?		Bidder's Product Identifier
			Y	N	
62	<b>InSBEP Additional Incremental Usage Charge over 450 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>NSBO0450</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
63	<b>InSBEP Minimum Bandwidth Commitment Ethernet 500 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>NSBP0500</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 500 Mbps with the ability to burst up to transport speed				
64	<b>InSBEP Additional Incremental Usage Charge over 500 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>NSBO0500</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
65	<b>InSBEP Minimum Bandwidth Commitment Ethernet 550 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>NSBP0550</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 550 Mbps with the ability to burst up to transport speed				
66	<b>InSBEP Additional Incremental Usage Charge over 550 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>NSBO0550</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
67	<b>InSBEP Minimum Bandwidth Commitment Ethernet 600 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>NSBP0600</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 600 Mbps with the ability to burst up to transport speed				

	Feature Name	Feature Description	Bidder Meets or Exceeds?		Bidder's Product Identifier
			Y	N	
68	<b>InSBEP Additional Incremental Usage Charge over 600 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>NSBO0600</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
69	<b>InSBEP Minimum Bandwidth Commitment Ethernet 622 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>NSBP0622</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 622 Mbps with the ability to burst up to transport speed				
70	<b>InSBEP Additional Incremental Usage Charge over 622 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>NSBO0622</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
71	<b>InSBEP Minimum Bandwidth Commitment Ethernet 700 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>NSBP0700</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 700 Mbps with the ability to burst up to transport speed				
72	<b>InSBEP Additional Incremental Usage Charge over 700 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>NSBO0700</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
73	<b>InSBEP Minimum Bandwidth Commitment Ethernet 800 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>NSBP0800</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 800 Mbps with the ability to burst up to transport speed				

	Feature Name	Feature Description	Bidder Meets or Exceeds?		Bidder's Product Identifier
			Y	N	
74	<b>InSBEP Additional Incremental Usage Charge over 800 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>NSBO0800</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
75	<b>InSBEP Minimum Bandwidth Commitment Ethernet 900 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>NSBP0900</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 900 Mbps with the ability to burst up to transport speed				
76	<b>InSBEP Additional Incremental Usage Charge over 900 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>NSBO0900</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
77	<b>InSBEP Minimum Bandwidth Commitment Ethernet 1000 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>NSBP1000</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 1000 Mbps with the ability to burst up to transport speed				
78	<b>InSBEP Additional Incremental Usage Charge over 1000 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>NSBO1000</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				

Table 5.2.5.2.b – 10G InSBEP Minimum Bandwidth Commitment and Incremental Usage Charge for InSBET 10G-Base-LSR 10,000 Mbps (to be provisioned with InSBET 10G Base-LSR 10,000 Mbps Ethernet Transport)

	Feature Name	Feature Description	Bidder Meets or Exceeds?		Bidder's Product Identifier
			Y	N	
1	<b>10G InSBEP Minimum Bandwidth Commitment Ethernet 1500 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>ISBM1500</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 1500 Mbps with the ability to burst up to transport speed.				
2	<b>10G InSBEP Additional Incremental Usage Charge over 1500 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>ISBA1500</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment..				
3	<b>10G InSBEP Minimum Bandwidth Commitment Ethernet 2000 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>ISBM2000</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 2000 Mbps with the ability to burst up to transport speed.				
4	<b>10G InSBEP Additional Incremental Usage Charge over 2000 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>ISBA2000</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
5	<b>10G InSBEP Minimum Bandwidth Commitment Ethernet 2500 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>ISBM2500</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 2500 Mbps with the ability to burst up to transport speed.				

	Feature Name	Feature Description	Bidder Meets or Exceeds?		Bidder's Product Identifier
			Y	N	
6	<b>10G InSBEP Additional Incremental Usage Charge over 2500 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>ISBA2500</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
7	<b>10G InSBEP Minimum Bandwidth Commitment Ethernet 3000 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>ISBM3000</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 3000 Mbps with the ability to burst up to transport speed.				
8	<b>10G InSBEP Additional Incremental Usage Charge over 3000 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>ISBA3000</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
9	<b>10G InSBEP Minimum Bandwidth Commitment Ethernet 3500 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>ISBM3500</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 3500 Mbps with the ability to burst up to transport speed.				
10	<b>10G InSBEP Additional Incremental Usage Charge over 3500 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>ISBA3500</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				

	Feature Name	Feature Description	Bidder Meets or Exceeds?		Bidder's Product Identifier
			Y	N	
11	<b>10G InSBEP Minimum Bandwidth Commitment Ethernet 4000 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>ISBM4000</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 4000 Mbps with the ability to burst up to transport speed.				
12	<b>10G InSBEP Additional Incremental Usage Charge over 4000 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>ISBA4000</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
13	<b>10G InSBEP Minimum Bandwidth Commitment Ethernet 4500 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>ISBM4500</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 4500 Mbps with the ability to burst up to transport speed.				
14	<b>10G InSBEP Additional Incremental Usage Charge over 4500 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>ISBA4500</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
15	<b>10G InSBEP Minimum Bandwidth Commitment Ethernet 5000 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>ISBM5000</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 5000 Mbps with the ability to burst up to transport speed.				

	Feature Name	Feature Description	Bidder Meets or Exceeds?		Bidder's Product Identifier
			Y	N	
16	<b>10G InSBEP Additional Incremental Usage Charge over 5000 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>ISBA5000</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
17	<b>10G InSBEP Minimum Bandwidth Commitment Ethernet 5500 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>ISBM5500</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 5500 Mbps with the ability to burst up to transport speed.				
18	<b>10G InSBEP Additional Incremental Usage Charge over 5500 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>ISBA5500</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
19	<b>10G InSBEP Minimum Bandwidth Commitment Ethernet 6000 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>ISBM6000</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 6000 Mbps with the ability to burst up to transport speed.				
20	<b>10G InSBEP Additional Incremental Usage Charge over 6000 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>ISBA6000</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				

	Feature Name	Feature Description	Bidder Meets or Exceeds?		Bidder's Product Identifier
			Y	N	
21	<b>10G InSBEP Minimum Bandwidth Commitment Ethernet 6500 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>ISBM6500</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 6500 Mbps with the ability to burst up to transport speed.				
22	<b>10G InSBEP Additional Incremental Usage Charge over 6500 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>ISBA6500</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
23	<b>10G InSBEP Minimum Bandwidth Commitment Ethernet 7000 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>ISBM7000</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 7000 Mbps with the ability to burst up to transport speed.				
24	<b>10G InSBEP Additional Incremental Usage Charge over 7000 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>ISBA7000</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
25	<b>10G InSBEP Minimum Bandwidth Commitment Ethernet 7500 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>ISBM7500</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 7500 Mbps with the ability to burst up to transport speed.				

	Feature Name	Feature Description	Bidder Meets or Exceeds?		Bidder's Product Identifier
			Y	N	
26	<b>10G InSBEP Additional Incremental Usage Charge over 7500 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>ISBA7500</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
27	<b>10G InSBEP Minimum Bandwidth Commitment Ethernet 8000 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>ISBM8000</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 8000 Mbps with the ability to burst up to transport speed.				
28	<b>10G InSBEP Additional Incremental Usage Charge over 8000 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>ISBA8000</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
29	<b>10G InSBEP Minimum Bandwidth Commitment Ethernet 8500 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>ISBM8500</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 8500 Mbps with the ability to burst up to transport speed.				
30	<b>10G InSBEP Additional Incremental Usage Charge over 8500 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>ISBA8500</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				

	Feature Name	Feature Description	Bidder Meets or Exceeds?		Bidder's Product Identifier
			Y	N	
31	<b>10G InSBEP Minimum Bandwidth Commitment Ethernet 9000 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>ISBM9000</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 9000 Mbps with the ability to burst up to transport speed.				
32	<b>10G InSBEP Additional Incremental Usage Charge over 9000 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>ISBA9000</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
33	<b>10G InSBEP Minimum Bandwidth Commitment Ethernet 9500 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>ISBM9500</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 9500 Mbps with the ability to burst up to transport speed.				
34	<b>10G InSBEP Additional Incremental Usage Charge over 9500 Mbps</b>	Charge for bandwidth usage over minimum commitment.	Y		<b>ISBA9500</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
35	<b>10G InSBEP Minimum Bandwidth Commitment Ethernet 10000 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge.	Y		<b>SBPM0000</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 10000 Mbps with the ability to burst up to transport speed.				

**5.2.5.3 Internet Sustained Bandwidth Ethernet Port with Managed Router Service (InSBEPM)**

*Contractor shall provide Internet Sustained Bandwidth Ethernet Port with Managed Router Service. Contractor shall provide a port configuration that allows Customers to select a monthly minimum bandwidth commitment. Customers then pay an additional incremental usage charge for sustained usage above the monthly minimum bandwidth commitment. Service shall allow Customers to "burst" up to the full capacity of the InSBET when needed.*

*The service shall include a Contractor owned, maintained and managed router. Bidder shall provide a description of the type of equipment, maintenance and management services that the Contractor will deploy to satisfy this requirement.*

*All Bidder equipment, tasks and services required for provisioning of the services described in Tables 5.2.5.3.a and 5.2.5.3.b will be included in the charges for the features/services listed in those tables unless specifically identified as not part of the mandatory service and proposed in Tables 5.2.5.3.c.*

*The Contractors managed router service shall include proactive Customer notification as identified in the Service Level Agreements.*

**Bidder understands the Requirement and shall meet or exceed it? Yes  No**

**Description:**

Verizon will provide Internet Sustained Bandwidth Ethernet Port with Managed Router Service. Verizon will provide a port configuration that allows Customers to select a monthly minimum bandwidth commitment. Customers then pay an additional incremental usage charge for sustained usage above the monthly minimum bandwidth commitment. The Verizon service will allow Customers to "burst" up to the full capacity of the InSBET when needed.

Verizon will provide a fully owned, maintained, and managed service which includes device availability, health monitoring, fault isolation, trouble ticket generation, and proactive outage notification.

All Verizon equipment, tasks and services required for provisioning of the services described in Tables 5.2.5.3.a and 5.2.5.3.b will be included in the charges for the features/services listed in those tables unless specifically identified as not part of the mandatory service and proposed in Tables 5.2.5.3.c.

The Verizon managed router service will include proactive Customer notification as identified in the Service Level Agreements.

**5.2.5.3.1 InSBEPM Minimum Bandwidth Commitment**

*Contractor shall provide InSBEPM Minimum Bandwidth Commitment port configuration that allows Customers to select a monthly minimum bandwidth commitment as described in Table 5.2.5.3. This service shall include a Contractor owned, maintained and managed router with service commitments as described in the Bidder's response to Section 5.2.5.3.*

**Bidder understands the Requirement and shall meet or exceed it? Yes  No**

**5.2.5.3.2 InSBEPM Additional Incremental Usage Charge for Sustained Usage**

Contractor may charge an incremental usage charge for sustained usage above the minimum bandwidth commitment speed identified.

Contractor shall calculate Sustained usage as follows:

1. Poll Access Router every 5 minutes and collect two (2) readings (average Octets in and Octets out over the five (5) minute period);
2. Both averages become data points (a total of 17,280 in a 30 day bill cycle) that are tracked over the Customer's monthly billing cycle;
3. All 17,280 data points are ranked in ascending order;
4. Discard the top 5% (or 864 measurements in a 30 day bill cycle); and
5. The highest remaining data point is the Sustained Usage value for billing purposes.

**Bidder understands the Requirement and shall meet or exceed it? Yes  No**

Table 5.2.5.3.a – InSBEPM Minimum Bandwidth Commitment and Incremental Usage Charge for InSBET 100-Base-TX 2 Mbps through 1000 Mbps Ethernet Transport (NOT to be provisioned with InSBET 10G Ethernet Transport. See Table 5.2.5.3.b)

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
1	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 2 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>NSBM0002</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 2 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				
2	<b>InSBEPM Additional Incremental Usage Charge over 2 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>NSBA0000</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Additional Incremental Usage Charge over minimum commitment.				
3	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 3 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>NSBM0003</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 3 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				

	Feature Name	Feature Description	Bidder Meets or Exceeds?		Bidder's Product Identifier
			Y	N	
4	<b>InSBEPM Additional Incremental Usage Charge over 3 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>NSBA0003</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Additional Incremental Usage Charge over minimum commitment.				
5	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 4 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>NSBM0004</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 4 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				
6	<b>InSBEPM Additional Incremental Usage Charge over 4 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>NSBA0004</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Additional Incremental Usage Charge over minimum commitment.				
7	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 5 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>NSBM0005</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 5 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				
8	<b>InSBEPM Additional Incremental Usage Charge over 5 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>NSBA0005</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Additional Incremental Usage Charge over minimum commitment.				
9	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 6 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>NSBM0006</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 6 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				

	Feature Name	Feature Description	Bidder Meets or Exceeds?		Bidder's Product Identifier
			Y	N	
10	<b>InSBEPM Additional Incremental Usage Charge over 6 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>NSBA0006</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Additional Incremental Usage Charge over minimum commitment.				
11	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 7 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>NSBM0007</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 7 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				
12	<b>InSBEPM Additional Incremental Usage Charge over 7 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>NSBA0007</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Additional Incremental Usage Charge over minimum commitment.				
13	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 8 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>NSBM0008</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 8 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				
14	<b>InSBEPM Additional Incremental Usage Charge over 8 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>NSBA0008</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Additional Incremental Usage Charge over minimum commitment.				
15	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 9 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>NSBM0009</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 9 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				

	Feature Name	Feature Description	Bidder Meets or Exceeds?		Bidder's Product Identifier
			Y	N	
16	<b>InSBEPM Additional Incremental Usage Charge over 9 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>NSBA0009</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Additional Incremental Usage Charge over minimum commitment.				
17	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 10 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>NSBM0010</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 10 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				
18	<b>InSBEPM Additional Incremental Usage Charge over 10 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>NSBA0010</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Additional Incremental Usage Charge over minimum commitment.				
19	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 15 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>NSBM0015</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 15 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				
20	<b>InSBEPM Additional Incremental Usage Charge over 15 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>NSBA0015</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Additional Incremental Usage Charge over minimum commitment.				
21	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 20 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>NSBM0020</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 20 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				

	Feature Name	Feature Description	Bidder Meets or Exceeds?		Bidder's Product Identifier
			Y	N	
22	<b>InSBEPM Additional Incremental Usage Charge over 20 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>NSBA0020</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Additional Incremental Usage Charge over minimum commitment.				
23	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 25 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>NSBM0025</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 25 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				
24	<b>InSBEPM Additional Incremental Usage Charge over 25 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>NSBA0025</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Additional Incremental Usage Charge over minimum commitment.				
25	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 30 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>NSBM0030</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 30 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				
26	<b>InSBEPM Additional Incremental Usage Charge over 30 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>NSBA0030</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Additional Incremental Usage Charge over minimum commitment.				

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
27	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 35 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>NSBM0035</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 35 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				
28	<b>InSBEPM Additional Incremental Usage Charge over 35 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>NSBA0035</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Additional Incremental Usage Charge over minimum commitment.				
29	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 40 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>NSBM0040</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 40 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				
30	<b>InSBEPM Additional Incremental Usage Charge over 40 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>NSBA0040</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Additional Incremental Usage Charge over minimum commitment.				
31	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 45 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>NSBM0045</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 45 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
32	InSBEPM Additional Incremental Usage Charge over 45 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		NSBA0045
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Additional Incremental Usage Charge over minimum commitment.				
33	InSBEPM Minimum Bandwidth Commitment Ethernet 50 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		NSBM0050
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 50 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				
34	InSBEPM Additional Incremental Usage Charge over 50 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		NSBA0050
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Additional Incremental Usage Charge over minimum commitment.				
35	InSBEPM Minimum Bandwidth Commitment Ethernet 60 Mbps	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		NSBM0060
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 60 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				
36	InSBEPM Additional Incremental Usage Charge over 60 Mbps	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		NSBA0060
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Additional Incremental Usage Charge over minimum commitment.				

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
37	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 70 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>NSBM0070</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 70 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				
38	<b>InSBEPM Additional Incremental Usage Charge over 70 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>NSBA0070</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Additional Incremental Usage Charge over minimum commitment.				
39	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 80 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>NSBM0080</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 80 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				
40	<b>InSBEPM Additional Incremental Usage Charge over 80 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>NSBA0080</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Additional Incremental Usage Charge over minimum commitment.				
41	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 90 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>NSBM0090</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 90 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				

	Feature Name	Feature Description	Bidder Meets or Exceeds?		Bidder's Product Identifier
			Y	N	
42	<b>InSBEPM Additional Incremental Usage Charge over 90 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>NSBA0090</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Additional Incremental Usage Charge over minimum commitment.				
43	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 100 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>NSBM0100</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 100 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				
44	<b>InSBEPM Additional Incremental Usage Charge over 100 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>NSBA0100</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Additional Incremental Usage Charge over minimum commitment.				
45	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 120 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>NSBM0120</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 120 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				
46	<b>InSBEPM Additional Incremental Usage Charge over 120 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>NSBA0120</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Additional Incremental Usage Charge over minimum commitment.				

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
47	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 144 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>NSBM0144</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 144 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				
48	<b>InSBEPM Additional Incremental Usage Charge over 144 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>NSBA0144</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Additional Incremental Usage Charge over minimum commitment.				
49	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 155 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>NSBM0155</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 155 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				
50	<b>InSBEPM Additional Incremental Usage Charge over 155 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>NSBA0155</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Additional Incremental Usage Charge over minimum commitment.				
51	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 200 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>NSBM0200</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 200 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
52	<b>InSBEPM Additional Incremental Usage Charge over 200 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>NSBA0200</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Additional Incremental Usage Charge over minimum commitment.				
53	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 250 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>NSBM0250</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 250 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				
54	<b>InSBEPM Additional Incremental Usage Charge over 250 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>NSBA0250</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Additional Incremental Usage Charge over minimum commitment.				
55	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 300 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>NSBM0300</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 300 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				
56	<b>InSBEPM Additional Incremental Usage Charge over 300 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>NSBA0300</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Additional Incremental Usage Charge over minimum commitment.				

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
57	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 350 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>NSBM0350</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 350 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				
58	<b>InSBEPM Additional Incremental Usage Charge over 350 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>NSBA0350</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Additional Incremental Usage Charge over minimum commitment.				
59	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 400 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>NSBM0400</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 400 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				
60	<b>InSBEPM Additional Incremental Usage Charge over 400 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>NSBA0400</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Additional Incremental Usage Charge over minimum commitment.				
61	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 450 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>NSBM0450</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 450 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
62	<b>InSBEPM Additional Incremental Usage Charge over 450 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>NSBA0450</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Additional Incremental Usage Charge over minimum commitment.				
63	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 500 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>NSBM0500</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 500 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				
64	<b>InSBEPM Additional Incremental Usage Charge over 500 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>NSBA0500</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Additional Incremental Usage Charge over minimum commitment.				
65	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 550 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>NSBM0550</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 550 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				
66	<b>InSBEPM Additional Incremental Usage Charge over 550 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>NSBA0550</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Additional Incremental Usage Charge over minimum commitment.				

	Feature Name	Feature Description	Bidder Meets or Exceeds?		Bidder's Product Identifier
			Y	N	
67	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 600 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>NSBM0600</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 600 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				
68	<b>InSBEPM Additional Incremental Usage Charge over 600 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>NSBA0600</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Additional Incremental Usage Charge over minimum commitment.				
69	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 622 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>NSBM0622</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 622 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				
70	<b>InSBEPM Additional Incremental Usage Charge over 622 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>NSBA0622</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Additional Incremental Usage Charge over minimum commitment.				
71	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 700 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>NSBM0700</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 700 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
72	<b>InSBEPM Additional Incremental Usage Charge over 700 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>NSBA0700</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Additional Incremental Usage Charge over minimum commitment.				
73	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 800 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>NSBM0800</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 800 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				
74	<b>InSBEPM Additional Incremental Usage Charge over 800 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>NSBA0800</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Additional Incremental Usage Charge over minimum commitment.				
75	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 900 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>NSBM0900</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 900 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				
76	<b>InSBEPM Additional Incremental Usage Charge over 900 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>NSBA0900</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Additional Incremental Usage Charge over minimum commitment.				

	Feature Name	Feature Description	Bidder Meets or Exceeds?		Bidder's Product Identifier
			Y	N	
77	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 1000 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>NSBM1000</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 1000 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				
78	<b>InSBEPM Additional Incremental Usage Charge over 1000 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>NSBA1000</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Additional Incremental Usage Charge over minimum commitment.				

Table 5.2.5.3.b – InSBEPM Minimum Bandwidth Commitment and Incremental Usage Charge 10G (to be provisioned with InSBET 10G Ethernet Transport)

	Feature Name	Feature Description	Bidder Meets or Exceeds?		Bidder's Product Identifier
			Y	N	
1	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 1500 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>INSM1500</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 1500 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				
2	<b>InSBEP Additional Incremental Usage Charge over 1500 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>INSA1500</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
3	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 2000 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>INSM2000</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 2000 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				
4	<b>InSBEP Additional Incremental Usage Charge over 2000 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>INSA2000</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
5	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 2500 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>INSM2500</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 2500 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				
6	<b>InSBEP Additional Incremental Usage Charge over 2500 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>INSA2500</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
7	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 3000 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>INSM3000</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 3000 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
8	<b>InSBEP Additional Incremental Usage Charge over 3000 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>INSA3000</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
9	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 3500 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>INSM3500</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 3500 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				
10	<b>InSBEP Additional Incremental Usage Charge over 3500 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>INSA3500</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
11	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 4000 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>INSM4000</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 4000 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				
12	<b>InSBEP Additional Incremental Usage Charge over 4000 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>INSA4000</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
13	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 4500 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>INSM4500</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 4500 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				
14	<b>InSBEP Additional Incremental Usage Charge over 4500 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>INSA4500</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
15	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 5000 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>INSM5000</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 4500 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				
16	<b>InSBEP Additional Incremental Usage Charge over 5000 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>INSA5000</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
17	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 5500 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>INSM5500</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 5500 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
18	<b>InSBEP Additional Incremental Usage Charge over 5500 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>INSA5500</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
19	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 6000 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>INSM6000</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 6000 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				
20	<b>InSBEP Additional Incremental Usage Charge over 6000 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>INSA6000</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
21	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 6500 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>INSM6500</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 6500 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				
22	<b>InSBEP Additional Incremental Usage Charge over 6500 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>INSA6500</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
23	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 7000 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>INSM7000</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 7000 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				
24	<b>InSBEP Additional Incremental Usage Charge over 7000 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>INSA7000</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
25	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 7500 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>INSM7500</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 7500 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				
26	<b>InSBEP Additional Incremental Usage Charge over 7500 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>INSA7500</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
27	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 8000 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>INSM8000</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 8000 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
28	<b>InSBEP Additional Incremental Usage Charge over 8000 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>INSA8000</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
29	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 8500 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>INSM8500</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 8500 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				
30	<b>InSBEP Additional Incremental Usage Charge over 8500 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>INSA8500</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
31	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 9000 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>INSM9000</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 9000 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				
32	<b>InSBEP Additional Incremental Usage Charge over 9000 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>INSA9000</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
33	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 9500 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>INSM9500</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 9500 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				
34	<b>InSBEP Additional Incremental Usage Charge over 9500 Mbps</b>	Charge for bandwidth usage over Minimum Bandwidth Commitment.	Y		<b>INSA9500</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEP Additional Incremental Usage Charge over minimum commitment.				
35	<b>InSBEPM Minimum Bandwidth Commitment Ethernet 10000 Mbps</b>	Ethernet minimum monthly bandwidth commitment charge. Includes Contractor owned, managed and maintained router.	Y		<b>ISMB0000</b>
	<b>Bidder's Product Description:</b> Verizon will provide InSBEPM Ethernet minimum monthly bandwidth commitment charge. Verizon's Internet Dedicated Ethernet Tiered Service will provide 10000 Mbps with the ability to burst up to access speed to include a Verizon owned, managed and maintained router.				

### 5.2.6 INTERNET SERVICE GEOGRAPHIC REQUIREMENTS

Bidder shall identify the locations where their InFRa, InFRaM, InSBEP or InSBEPM Internet Services are available in Table 5.2.6.a. By indicating "X" in the table below, Contractor commits to provide the services in the cities identified below. Commitment is subject to facility availability either through Contractor owned facilities or third-party agreements. Bidders may reference Table 5.2.6.a or Table 5.2.6.b in their Catalog A, Geographic Availability response. Bidders Catalog A language shall not conflict with the requirements described herein.

Table 5.2.6.a Internet Service Geographic Requirements

	Service Location	InFRa	InFRaM	InSBET/InSBEP	InSBET/InSBEP M
1	Adelanto				
2	Agoura Hills				

Service Location		InFRa	InFRaM	InSBET/InSBEP	InSBET/InSBEP M
3	Alameda				
4	Albany				
5	Alhambra				
6	Aliso Viejo				
7	Alturas				
8	Amador				
9	American Canyon				
10	Anaheim				
11	Anderson				
12	Angels Camp				
13	Antioch				
14	Apple Valley				
15	Arcadia				
16	Arcata				
17	Arroyo Grande				
18	Artesia				
19	Arvin				
20	Atascadero				
21	Atherton				

Service Location		InFRa	InFRaM	InSBET/InSBEP	InSBET/InSBEP M
22	Atwater				
23	Auburn				
24	Avalon				
25	Avenal				
26	Azusa				
27	Bakersfield				
28	Baldwin Park				
29	Banning				
30	Barstow				
31	Beaumont				
32	Bell				
33	Bell Gardens				
34	Bellflower				
35	Belmont				
36	Belvedere				
37	Benicia				
38	Berkeley				
39	Beverly Hills				
40	Big Bear Lake				

Service Location		InFRa	InFRaM	InSBET/InSBEP	InSBET/InSBEP M
41	Biggs				
42	Bishop				
43	Blue Lake				
44	Blythe				
45	Bradbury				
46	Brawley				
47	Brea				
48	Brentwood				
49	Brisbane				
50	Buellton				
51	Buena Park				
52	Burbank				
53	Burlingame				
54	Calabasas				
55	Calexico				
56	California City				
57	Calimesa				
58	Calipatria				
59	Calistoga				

Service Location		InFRa	InFRaM	InSBET/InSBEP	InSBET/InSBEP M
60	Camarillo				
61	Campbell				
62	Canyon Lake				
63	Capitola				
64	Carlsbad				
65	Carmel-By-The-Sea				
66	Carpentaria				
67	Carson				
68	Cathedral City				
69	Ceres				
70	Cerritos				
71	Chico				
72	Chino				
73	Chino Hills				
74	Chowchilla				
75	Chula Vista				
76	Citrus Heights				
77	Claremont				
78	Clayton				

Service Location		InFRa	InFRaM	InSBET/InSBEP	InSBET/InSBEP M
79	Clearlake				
80	Cloverdale				
81	Coachella				
82	Coalinga				
83	Colfax				
84	Colma				
85	Colton				
86	Colusa				
87	Commerce				
88	Compton				
89	Concord				
90	Corcoran				
91	Corning				
92	Corona				
93	Coronado				
94	Corte Madera				
95	Costa Mesa				
96	Cotati				
97	Covina				

Service Location		InFRa	InFRaM	InSBET/InSBEP	InSBET/InSBEP M
98	Crescent City				
99	Cudahy				
100	Culver City				
101	Cupertino				
102	Cypress				
103	Daly City				
104	Dana Point				
105	Danville				
106	Davis				
107	Del Mar				
108	Del Rey Oaks				
109	Delano				
110	Desert Hot Springs				
111	Diamond Bar				
112	Dinuba				
113	Dixon				
114	Dorris				
115	Dos Palos				
116	Downey				

Service Location		InFRa	InFRaM	InSBET/InSBEP	InSBET/InSBEP M
117	Duarte				
118	Dublin				
119	Dunsmuir				
120	East Palo Alto				
121	El Cajon				
122	El Centro				
123	El Cerrito				
124	El Monte				
125	El Paso De Robles				
126	El Segundo				
127	Elk Grove				
128	Emeryville				
129	Encinitas				
130	Escalon				
131	Escondido				
132	Etna				
133	Eureka				
134	Exeter				
135	Fairfax				

Service Location		InFRa	InFRaM	InSBET/InSBEP	InSBET/InSBEP M
136	Fairfield				
137	Farmersville				
138	Ferndale				
139	Fillmore				
140	Firebaugh				
141	Folsom				
142	Fontana				
143	Fort Bragg				
144	Fort Jones				
145	Fortuna				
146	Foster City				
147	Fountain Valley				
148	Fowler				
149	Fremont				
150	Fresno				
151	Fullerton				
152	Galt				
153	Garden Grove				
154	Gardena				

Service Location		InFRa	InFRaM	InSBET/InSBEP	InSBET/InSBEP M
155	Gilroy				
156	Glendale				
157	Glendora				
158	Goleta				
159	Gonzales				
160	Grand Terrace				
161	Grass Valley				
162	Greenfield				
163	Gridley				
164	Grover Beach				
165	Guadalupe				
166	Gustine				
167	Half Moon Bay				
168	Hanford				
169	Hawaiian Gardens				
170	Hawthorne				
171	Hayward				
172	Healdsburg				
173	Hemet				

Service Location		InFRa	InFRaM	InSBET/InSBEP	InSBET/InSBEP M
174	Hercules				
175	Hermosa Beach				
176	Hesperia				
177	Hidden Hills				
178	Highland				
179	Hillsborough				
180	Hollister				
181	Holtville				
182	Hughson				
183	Humboldt				
184	Huntington Beach				
185	Huntington Park				
186	Huron				
187	Imperial				
188	Imperial Beach				
189	Indian Wells				
190	Indio				
191	Industry				

Service Location		InFRa	InFRaM	InSBET/InSBEP	InSBET/InSBEP M
192	Inglewood				
193	Inyo				
194	lone				
195	Irvine				
196	Irwindale				
197	Isleton				
198	Jackson				
199	Kerman				
200	Kern				
201	King City				
202	Kings				
203	Kingsburg				
204	La Canada Flintridge				
205	La Habra				
206	La Habra Heights				
207	La Mesa				
208	La Mirada				
209	La Palma				

Service Location		InFRa	InFRaM	InSBET/InSBEP	InSBET/InSBEP M
210	La Puente				
211	La Quinta				
212	La Verne				
213	Lafayette				
214	Laguna Beach				
215	Laguna Hills				
216	Laguna Niguel				
217	Laguna Woods				
218	Lake				
219	Lake Elsinore				
220	Lake Forest				
221	Lakeport				
222	Lakewood				
223	Lancaster				
224	Larkspur				
225	Lassen				
226	Lathrop				
227	Lawndale				
228	Lemon Grove				

Service Location		InFRa	InFRaM	InSBET/InSBEP	InSBET/InSBEP M
229	Lemoore				
230	Lincoln				
231	Lindsay				
232	Live Oak				
233	Livermore				
234	Livingston				
235	Lodi				
236	Loma Linda				
237	Lomita				
238	Lompoc				
239	Long Beach				
240	Loomis				
241	Los Alamitos				
242	Los Altos				
243	Los Altos Hills				
244	Los Angeles				
245	Los Banos				
246	Los Gatos				
247	Loyalton				

Service Location		InFRa	InFRaM	InSBET/InSBEP	InSBET/InSBEP M
248	Lynwood				
249	Madera				
250	Malibu				
251	Mammoth Lakes				
252	Manhattan Beach				
253	Manteca				
254	Maricopa				
255	Marina				
256	Martinez				
257	Marysville				
258	Maywood				
259	McFarland				
260	Mendota				
261	Menlo Park				
262	Merced				
263	Mill Valley				
264	Millbrae				
265	Milpitas				

Service Location		InFRa	InFRaM	InSBET/InSBEP	InSBET/InSBEP M
266	Mission Viejo				
267	Modesto				
268	Monrovia				
269	Montague				
270	Montclair				
271	Monte Sereno				
272	Montebello				
273	Monterey				
274	Monterey Park				
275	Moorpark				
276	Moraga				
277	Moreno Valley				
278	Morgan Hill				
279	Morro Bay				
280	Mount Shasta				
281	Mountain View				
282	Murrieta				
283	Napa				
284	National City				

Service Location		InFRa	InFRaM	InSBET/InSBEP	InSBET/InSBEP M
285	Needles				
286	Nevada City				
287	Newark				
288	Newman				
289	Newport Beach				
290	Norco				
291	Norwalk				
292	Novato				
293	Oakdale				
294	Oakland				
295	Oakley				
296	Oceanside				
297	Ojai				
298	Ontario				
299	Orange				
300	Orange Cove				
301	Orinda				
302	Orland				
303	Oroville				

Service Location		InFRa	InFRaM	InSBET/InSBEP	InSBET/InSBEP M
304	Oxnard				
305	Pacific Grove				
306	Pacifica				
307	Palm Desert				
308	Palm Springs				
309	Palmdale				
310	Palo Alto				
311	Palos Verdes Estates				
312	Paradise				
313	Paramount				
314	Parlier				
315	Pasadena				
316	Patterson				
317	Perris				
318	Petaluma				
319	Pico Rivera				
320	Piedmont				
321	Pinole				
322	Pismo Beach				

Service Location		InFRa	InFRaM	InSBET/InSBEP	InSBET/InSBEP M
323	Pittsburg				
324	Placentia				
325	Placerville				
326	Pleasant Hill				
327	Pleasanton				
328	Plymouth				
329	Point Arena				
330	Pomona				
331	Port Hueneme				
332	Porterville				
333	Portola				
334	Portola Valley				
335	Poway				
336	Rancho Cordova	X	X	X	X
337	Rancho Cucamonga				
338	Rancho Mirage				
339	Rancho Palos Verdes				

Service Location		InFRa	InFRaM	InSBET/InSBEP	InSBET/InSBEP M
340	Rancho Santa Margarita				
341	Red Bluff				
342	Redding				
343	Redlands				
344	Redondo Beach				
345	Redwood City				
346	Reedley				
347	Rialto				
348	Richmond				
349	Ridgecrest				
350	Rio Dell				
351	Rio Vista				
352	Ripon				
353	Riverbank				
354	Riverside				
355	Rocklin				
356	Rohnert Park				
357	Rolling Hills				

Service Location		InFRa	InFRaM	InSBET/InSBEP	InSBET/InSBEP M
358	Rolling Hills Estates				
359	Rosemead				
360	Roseville				
361	Ross				
362	Sacramento	X	X	X	X
363	Salinas				
364	San Anselmo				
365	San Bernardino				
366	San Bruno				
367	San Buenaventura				
368	San Carlos				
369	San Clemente				
370	San Diego				
371	San Dimas				
372	San Fernando				
373	San Francisco				
374	San Gabriel				
375	San Jacinto				

Service Location		InFRa	InFRaM	InSBET/InSBEP	InSBET/InSBEP M
376	San Joaquin				
377	San Jose				
378	San Juan Bautista				
379	San Juan Capistrano				
380	San Leandro				
381	San Luis Obispo				
382	San Marcos				
383	San Marino				
384	San Mateo				
385	San Pablo				
386	San Rafael				
387	San Ramon				
388	Sand City				
389	Sanger				
390	Santa Ana				
391	Santa Barbara				
392	Santa Clara				
393	Santa Clarita				

Service Location		InFRa	InFRaM	InSBET/InSBEP	InSBET/InSBEP M
394	Santa Cruz				
395	Santa Fe Springs				
396	Santa Maria				
397	Santa Monica				
398	Santa Paula				
399	Santa Rosa				
400	Santee				
401	Saratoga				
402	Sausalito				
403	Scotts Valley				
404	Seal Beach				
405	Seaside				
406	Sebastopol				
407	Selma				
408	Shafter				
409	Shasta Lake				
410	Sierra Madre				
411	Signal Hill				
412	Simi Valley				

Service Location		InFRa	InFRaM	InSBET/InSBEP	InSBET/InSBEP M
413	Solana Beach				
414	Soledad				
415	Solvang				
416	Sonoma				
417	Sonora				
418	South El Monte				
419	South Gate				
420	South Lake Tahoe				
421	South Pasadena				
422	South San Francisco				
423	St Helena				
424	Stanton				
425	Stockton				
426	Suisun City				
427	Sunnyvale				
428	Susanville				
429	Sutter Creek				

Service Location		InFRa	InFRaM	InSBET/InSBEP	InSBET/InSBEP M
430	Taft				
431	Tehachapi				
432	Tehama				
433	Temecula				
434	Temple City				
435	Thousand Oaks				
436	Tiburon				
437	Torrance				
438	Tracy				
439	Trinidad				
440	Truckee				
441	Tulare				
442	Tulelake				
443	Turlock				
444	Tustin				
445	Twentynine Palms				
446	Ukiah				
447	Union City				

Service Location		InFRa	InFRaM	InSBET/InSBEP	InSBET/InSBEP M
448	Upland				
449	Vacaville				
450	Vallejo				
451	Vernon				
452	Victorville				
453	Villa Park				
454	Visalia				
455	Vista				
456	Walnut				
457	Walnut Creek				
458	Wasco				
459	Waterford				
460	Watsonville				
461	Weed				
462	West Covina				
463	West Hollywood				
464	West Los Angeles				
465	West Sacramento				

Service Location		InFRa	InFRaM	InSBET/InSBEP	InSBET/InSBEP M
466	Westlake Village				
467	Westminster				
468	Westmorland				
469	Wheatland				
470	Whittier				
471	Williams				
472	Willits				
473	Willows				
474	Windsor				
475	Winters				
476	Woodlake				
477	Woodland				
478	Woodside				
479	Yorba Linda				
480	Yountville				
481	Yreka				
482	Yuba City				
483	Yucaipa				
484	Yucca Valley				

Bidder may identify additional locations in California where their InFRa, InFRaM, InSBEP or InSBEPM Internet Services are available either through Contractor owned facilities or third-party agreements in Table 5.2.6.b. Bidders shall list the product identifier for each location where the Contractor provides InFRa, InFRaM, InSBEP or InSBEPM. By listing the service location, the Bidder commits to provide service in that specific location. Bidders may reference Table 5.2.6.a or Table 5.2.6.b in their Catalog A, Geographic Availability response.

If Bidder is unable to identify all service areas within Tables 5.2.6.a and 5.2.6.b, Bidder shall provide additional information in the form of a coverage map that includes unincorporated areas.

Table 5.2.6.b Internet Service Additional Geographic Locations

Service Location		InFRa	InFRaM	InSBET/ InSBEP	InSBET/ InSBEPM
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

## 5.2.7 ADDITIONAL UNSOLICITED INTERNET SERVICES

### 5.2.7.1 Unsolicited Internet Services Product Descriptions

Bidder shall describe in detail the additional high-speed Internet access service(s) that will be provided under this Contract.

All Bidder equipment, tasks and services required for provisioning of the services shall be identified in Table 5.2.7.a.

Table 5.2.7.a – Additional Unsolicited Internet Services

	Feature Name	Feature Description	Bidder's Product Identifier
1			
	Bidder's Product Description:		
2			
	Bidder's Product Description:		

	Feature Name	Feature Description	Bidder's Product Identifier
3			
	Bidder's Product Description:		

**5.2.7.2 Unsolicited Internet Services Geographic Coverage**

Bidder shall provide a coverage map for each Unsolicited service offered in Table 5.2.7.a. A single map may be provided for services that fall within the same geographic footprint.

**Bidder understands the requirements in Section 5.2.7.2 and shall meet or exceed them? Yes  No**

**Description:**

**5.3 NETWORK DISASTER/OPERATIONAL RECOVERY**

**5.3.1 TELECOMMUNICATIONS SERVICE PRIORITY (TSP) PROGRAM**

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 Requirement and shall meet or exceed it? Yes  No**

**5.3.2 DATA NETWORK DISASTER/OPERATIONAL RECOVERY**

Public safety agencies, major data centers, agencies with supporting roles during disaster or emergency operations, and agencies with significant roles in post-disaster recovery have mission-critical needs to maintain network availability during disasters or emergencies.

It is essential that service be restored as soon as possible, and the services most critical to State operations remain operational during efforts to achieve full service recovery.

**Bidder understands the Requirement and shall meet or exceed it? Yes  No**

**5.4 OTHER SERVICES**

**5.4.1 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.

## 5.4.2 EXTENDED DEMARCATION WIRING SERVICES

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

Extended Demarc wiring shall include all necessary hardware including wire and/or cable, connectors, jumpers, patch panels, minor materials and jacks. Extended Demarc wiring shall also include all necessary labor required to complete the provisioning of service including installation, testing, trouble shooting, labeling and documentation.

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; or,
4. Testing, trouble shooting, labeling and completing documentation.

The Contractor shall provide installations in accordance with the timeframes identified for the services that this cabling will support, and shall be subject to the SLAs detailed in Section 5.5.8.8 (Provisioning SLAs) associated with that service.

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 in less than 20 minutes or if the Contractor would cause damage to the Customer site or existing cabling in clearing the pathway;
2. The wire/cable pathway is in an asbestos environment 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. Written release of the responsibility to provide the Extended Demarc is provided by either the Customer or by CALNET 3 CMO.

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 (1) Demarc extension as described above. Bidder shall provide one (1) price for each media identified.

The Contractor shall install wiring 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 CALNET 3 CMO. Additionally, the Contractor shall install and maintain all wiring in accordance with all applicable EIA/TIA, BICSI, and ITU-T recommended standards current at the time of installation or maintenance.

The Contractor shall provide extended Demarcation Services limited to one (1) occurrence or installation for the specific telecommunications service the cabling is meant to support and must be ordered in conjunction with the service being provisioned. All other cabling will be the responsibility of the Customer and will be acquired through other procurement vehicles.

**Bidder understands the Requirement and shall meet or exceed it? Yes X No \_\_\_\_\_**

*The Contractor shall offer the wiring services for extended demarcation detailed in Table 5.4.2.a.*

Table 5.4.2.a Extended Demarcation Wiring Services

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
1	<b>Extended Demarcation – Copper four-Pair – Regular Hours</b>	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment as described above. Includes 300 feet of four-pair cable and an RJ48 or equivalent jack.	Y		<b>EDMC0004</b>
	<b>Bidder's Product Description:</b> Verizon will provide Extended Demarcation Copper Four Pair Wiring as described above that will include all necessary hardware including 300 feet of four-pair cable, connectors, jumpers, patch panels, minor materials and jacks. Extended Demarcation wiring will also include all necessary labor required to complete the provisioning of service including installation, testing, trouble shooting, labeling and documentation. Verizon assumes customer to have a clear pathway for cable installations.				
2	<b>Extended Demarcation – Copper four-Pair – Overtime Hours</b>	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment as described above. Includes 300 feet of four-pair cable and an RJ48 or equivalent jack.	Y		<b>EDMO0004</b>
	<b>Bidder's Product Description:</b> Verizon will provide Extended Demarcation – Copper four-Pair – Overtime Hours as described above that will include all necessary hardware including 300 feet of four-pair cable, connectors, jumpers, patch panels, minor materials and jacks. Extended Demarcation wiring will also include all necessary labor required to complete the provisioning of service including installation, testing, trouble shooting, labeling and documentation. Verizon assumes customer to have a clear pathway for cable installations.				

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
3	<b>Extended Demarcation – Copper four-Pair – Sunday and Holiday Hours</b>	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment as described above. Includes 300 feet of four-pair cable and an RJ48 or equivalent jack.	Y		<b>EDMH0004</b>
	<b>Bidder's Product Description:</b> Verizon will provide Extended Demarcation – Copper four-Pair – Sunday and Holiday Hours as described above that will include all necessary hardware including 300 feet of four-pair cable, connectors, jumpers, patch panels, minor materials and jacks. Extended Demarcation wiring will also include all necessary labor required to complete the provisioning of service including installation, testing, trouble shooting, labeling and documentation. Verizon assumes customer to have a clear pathway for cable installations.				
4	<b>Extended Demarcation – Copper 25 Pair – Regular Hours</b>	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment as described above. Includes 300 feet or less of Category 5 25-pair CMP cable, one (1) patch panel and mounting hardware. Ten (10) Category 5e, three (3) meter jumpers; one (1) 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.	Y		<b>EDMR0025</b>
	<b>Bidder's Product Description:</b> Verizon will provide Extended Demarcation Copper 25 Pair Wiring services as described above. The station cabling provided to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment is up to 300 feet, will include ten (10) Category 5e, three (3) meter jumpers; one (1) 24-port patch panel to be provided in the MPOE and Intermediate Distribution Frame (IDF) for all circuits being extended. This includes associated troubleshooting, testing, and labeling. To provide this service, Verizon assumes customer to have a clear pathway for cable installations.				

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
5	<b>Extended Demarcation – Copper 25 Pair – Overtime Hours</b>	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment as described above. Includes 300 feet or less of Category 5 25-pair CMP cable, one (1) patch panel and mounting hardware. Ten (10) Category 5e, three (3) meter jumpers; one (1) 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.	Y		EDMO0025
	<b>Bidder's Product Description:</b> Verizon will provide Extended Demarcation – Copper 25 Pair – Overtime Hours Wiring services as described above. The station cabling provided to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment is up to 300 feet, will include ten (10) Category 5e, three (3) meter jumpers; one (1) 24-port patch panel to be provided in the MPOE and Intermediate Distribution Frame (IDF) for all circuits being extended. This includes associated troubleshooting, testing, and labeling. To provide this service, Verizon assumes customer to have a clear pathway for cable installations.				
6	<b>Extended Demarcation – Copper 25 Pair – Sunday and Holiday Hours</b>	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment as described above. Includes 300 feet or less of Category 5 25-pair CMP cable, one (1) patch panel and mounting hardware. Ten (10) Category 5e, three (3) meter jumpers; one (1) 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.	Y		EDMH0025
	<b>Bidder's Product Description:</b>				

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
		<p>Verizon will provide Extended Demarcation – Copper 25 Pair – Sunday and Holiday Hours services as described above. The station cabling provided to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment is up to 300 feet, will include ten (10) Category 5e, three (3) meter jumpers; one (1) 24-port patch panel to be provided in the MPOE and Intermediate Distribution Frame (IDF) for all circuits being extended. This includes associated troubleshooting, testing, and labeling. To provide this service, Verizon assumes customer to have a clear pathway for cable installations.</p>			<p><b>Extended Demarcation – Optical Fiber Link – Regular Hours</b></p> <p>Wiring services to extend Facilities from the Customer's MPOE to the Customers point of utilization from a fiber trunk or trunking equipment as described above with strand count required to provision one (1) 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 (2) SC-SC duplex patch cords for each single circuit extension. Includes associated troubleshooting, testing and labeling.</p>
7			Y		<p><b>Bidder's Product Identifier</b></p> <p>EDOR0000</p>
	<p><b>Bidder's Product Description:</b></p> <p>Verizon will provide an Extended Demarcation Optical Fiber Link wiring to extend Facilities from the Customer's MPOE to the Customers point of utilization from a fiber trunk or trunking equipment as described above with strand count required to provision one-each service only. Verizon will include one (1) 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 (2) SC-SC duplex patch cords for each single circuit extension. This includes associated troubleshooting, testing and labeling. To provide this service, Verizon assumes customer to have a clear pathway.</p>				

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
8	<b>Extended Demarcation – Optical Fiber Link – Overtime Hours</b>	Wiring services to extend Facilities from the Customer's MPOE to the Customers point of utilization from a fiber trunk or trunking equipment as described above with strand count required to provision one (1) 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 (2) SC-SC duplex patch cords for each single circuit extension. Includes associated troubleshooting, testing and labeling.	Y		EDOF0000
	<b>Bidder's Product Description:</b> Verizon will provide an Extended Demarcation – Optical Fiber Link – Overtime Hours wiring to extend Facilities from the Customer's MPOE to the Customers point of utilization from a fiber trunk or trunking equipment as described above with strand count required to provision one-each service only. Verizon will include one (1) 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 (2) SC-SC duplex patch cords for each single circuit extension. This includes associated troubleshooting, testing and labeling. To provide this service, Verizon assumes customer to have a clear pathway. Wiring services to extend Facilities from the Customers MPOE to the Customers point of utilization to include wiring installation and testing are available Overtime Hours – Hours worked between 5:00PM and 7:59AM, Monday through Friday and all day Saturday.				
9	<b>Extended Demarcation – Optical Fiber Link – Sunday and Holiday Hours</b>	Wiring services to extend Facilities from the Customer's MPOE to the Customers point of utilization from a fiber trunk or trunking equipment as described above with strand count required to provision one (1) 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 (2) SC-SC duplex patch cords for each single circuit extension. Includes associated troubleshooting, testing and labeling.	Y		EDFH0000
	<b>Bidder's Product Description:</b>				

	Feature Name	Feature Description	Bidder Meets or Exceeds? Y N	Bidder's Product Identifier
		Verizon will provide an Extended Demarcation – Optical Fiber Link – Sunday and Holiday Hours wiring to extend Facilities from the Customer's MPOE to the Customers point of utilization from a fiber trunk or trunking equipment as described above with strand count required to provision one-each service only. Verizon will include one (1) 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 (2) SC-SC duplex patch cords for each single circuit extension. This includes associated troubleshooting, testing and labeling. To provide this service, Verizon assumes customer to have a clear pathway. Wiring services to extend Facilities from the Customers MPOE to the Customers point of utilization to include wiring installation and testing are available Sunday and Holiday Hours – Any hours worked on Sunday or State of California holidays.		

The Contractor may offer additional Unsolicited extended demarcation wiring services in Table 5.4.2.b.

Table 5.4.2.b Unsolicited Extended Demarcation Wiring Services and Features

	Feature Name	Feature Description	Bidder's Product Identifier
1	<b>Pathway Components Services - Inner-duct CMP 300' package furnish and installed.</b>	Extended Demarcation Wiring Services Pathway Components Services - Inner-duct CMP 300' package furnish and installed.	PRCI0003
	<b>Bidder's Product Description:</b> Extended Demarcation Wiring Services Pathway Components Services - Inner-duct Orange Corrugated CMP 300' package furnish and installed. Inner-duct to be used for routing fiber cable in the intra building environment. To provide this service, Verizon assumes customer to have a clear pathway, and that the supporting structure is acceptable for Inner-duct installations. Labor rate is based upon working normal business hours.		
2	<b>Pathway Component Service J-Hook and Hangers 300' package furnish and installed.</b>	Extended Demarcation Wiring Services Pathway Components Services - Standard J Hook. Verizon will Furnish and Install Standard J Hooks and Hangers in support of 300' cable package and Installation.	PCSJ0000

	Feature Name	Feature Description	Bidder's Product Identifier
	<p><b>Bidder's Product Description:</b>                      Pathway Components Services - Standard J Hook                      Extended Demarcation Wiring Services will furnish and install Standard J Hooks and hangers in support of 300' cable package and Installation. Labor rate is based upon working normal business hours.</p>		
3	<p><b>Pathway Components Services - 4" Core</b></p>	<p>Extended Demarcation Wiring Services Pathway Components Services - 4" Core                      Verizon will provide labor and material to install a 4" Core, sleeve and firestop accordingly.</p>	PCSM0004
	<p><b>Bidder's Product Description:</b>                      Pathway Components Services - 4" Core                      Extended Demarcation Wiring Services Labor and material to provide up to a 4" Core, sleeved and Firestopped accordingly, through Gypsum wall. Labor rate is based upon working normal business hours.</p>		
4	<p><b>Pathway Components Services - 2" Core</b></p>	<p>Extended Demarcation Wiring Services Pathway Components Services - 2" Core                      Verizon will provide labor and material to install a 2" Core, sleeve and firestop accordingly.</p>	PCSM0002
	<p><b>Bidder's Product Description:</b>                      Pathway Components Services - 2" Core                      Extended Demarcation Wiring Services Labor and material to provide up to a 4" Core, sleeved and Firestopped accordingly, through Gypsum wall. Labor rate is based upon working normal business hours.</p>		
5	<p><b>Pathway Components Services - 1" Core</b></p>	<p>Extended Demarcation Wiring Services Pathway Components Services - 1" Core                      Verizon will provide labor and material to install a 1" Core, sleeve and firestop accordingly.</p>	PCSM0001
	<p><b>Bidder's Product Description:</b>                      Pathway Components Services - 1" Core                      Extended Demarcation Wiring Services Labor and material to provide up to a 1" Core, sleeved and Firestopped accordingly, through Gypsum wall. Labor rate is based upon working normal business hours.</p>		
6	<p><b>Pathway Components</b></p>	<p>Extended Demarcation Wiring Services Pathway Components Services – Standard 1" Electrical</p>	PCSS0001

	Feature Name	Feature Description	Bidder's Product Identifier
	<b>Services – Standard 1” Electrical Metallic Tubing (EMT) 10’ package.</b>	Metallic Tubing (EMT – conduit) Intra Building EMT Furnish and Install 10’ package.	
	<b>Bidder’s Product Description:</b> Extended Demarcation Wiring Services Pathway Components Services – Standard 1” EMT (conduit) Intra Building Furnish and Install EMT in support of Station Wiring Services Copper or Fiber. Labor rate is based upon working normal business hours.		
7	<b>Pathway Components Services – Standard 2” Electrical Metallic Tubing (EMT) 10’ package.</b>	Extended Demarcation Wiring Services Pathway Components Services – Standard 2” Electrical Metallic Tubing (EMT – conduit) Intra Building EMT Furnish and Install 10’ package.	PCSS0002
	<b>Bidder’s Product Description:</b> Extended Demarcation Wiring Services Pathway Components Services – Standard 2” EMT (conduit) Intra Building Furnish and Install EMT in support of Station Wiring Services Copper or Fiber. Labor rate is based upon working normal business hours.		
8	<b>Pathway Components Services – National Electrical Manufacturers Association (NEMA) 1 Pull Box 12”X12”X6”</b>	Extended Demarcation Wiring Services Pathway Components Services – National Electrical Manufacturers Association (NEMA) 1 Pull Box 12”X12”X6” Furnish and Install.	PCSV0001
	<b>Bidder’s Product Description:</b> Extended Demarcation Wiring Services Pathway Components Services – Furnish and Install NEMA 1 12”X12”X6” Pull box in support of Station Wiring Services Copper or Fiber. Labor rate is based upon working normal business hours.		
9	<b>Pathway Components Services – National Electrical</b>	Extended Demarcation Wiring Services Pathway Components Services – National Electrical	PCSV0002

	Feature Name	Feature Description	Bidder's Product Identifier
	<b>Manufacturers Association (NEMA) 3 Pull Box 12"X12"X8".</b>	Manufacturers Association (NEMA) 3 Pull Box 12"X12"X8" Furnish and Install.	
	<b>Bidder's Product Description:</b> Extended Demarcation Wiring Services Pathway Components Services –Furnish and Install NEMA 3 12"X12"X8" Pull box in support of Station Wiring Services Copper or Fiber. Labor rate is based upon working normal business hours.		
10	<b>Pathway Components Services – National Electrical Manufacturers Association (NEMA) 1 Pull Box 8"X8"X6".</b>	Extended Demarcation Wiring Services Pathway Components Services – National Electrical Manufacturers Association (NEMA) 1 Pull Box 8"X8"X6" Furnish and Install.	PCSV0003
	<b>Bidder's Product Description:</b> Extended Demarcation Wiring Services Pathway Components Services –Furnish and Install NEMA 1 8"X8"X6" Pull box in support of Station Wiring Services Copper or Fiber. Labor rate is based upon working normal business hours.		
11	<b>Pathway Components Services – National Electrical Manufacturers Association (NEMA) 3 Pull Box 8"X8"X6".</b>	Extended Demarcation Wiring Services Pathway Components Services – National Electrical Manufacturers Association (NEMA) 3 Pull Box 8"X8"X6" Furnish and Install.	PCSV0004
	<b>Bidder's Product Description:</b> Extended Demarcation Wiring Services Pathway Components Services –Furnish and Install NEMA 3 8"X8"X6" Pull box in support of Station Wiring Services Copper or Fiber. Labor rate is based upon working normal business hours.		

	Feature Name	Feature Description	Bidder's Product Identifier
12	<b>Pathway Components Services - Surface Raceway 1" Top and Base with End Caps Non-Metallic 10' package.</b>	Extended Demarcation Wiring Services Pathway Components Services - Surface Raceway 1" Top and Base with End Caps Non-Metallic 10' package.	PCSV0005
	<b>Bidder's Product Description:</b> Extended Demarcation Wiring Services Pathway Components Services – Surface Raceway Surface Raceway 1" Top and Base with End Caps Non-Metallic 10' package. Labor rate is based upon working normal business hours.		
13	<b>Pathway Components Services - Surface Raceway 2" Top and Base with End Caps Non-Metallic 10' package.</b>	Extended Demarcation Wiring Services Pathway Components Services - Surface Raceway 2" Top and Base with End Caps Non-Metallic 10' package.	PCSV0006
	<b>Bidder's Product Description:</b> Extended Demarcation Wiring Services Pathway Components Services – Surface Raceway Surface Raceway 2" Top and Base with End Caps Non-Metallic 10' package. Labor rate is based upon working normal business hours.		

**5.4.3 SERVICES RELATED HOURLY SUPPORT**

The Contractor shall provide labor for the diagnosis and/or repair of services offered in this Category 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 Contractor’s responsibilities. Work performed under this Section 5.4.3 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.

In Cost Worksheet 5.4.3, 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 (10) hours per dispatch/occurrence.

**Bidder understands the Requirement and shall meet or exceed it? Yes X No \_\_\_\_\_**

The Contractor shall offer emergency restoration services as detailed in Table 5.4.3.

Table 5.4.3 Services Related Hourly Support

	Labor Classification Name	Classification Description	Bidder Meets or Exceeds? Y N		Bidder’s Product Identifier
1	<b>Field Service Repair Technician Regular Hours</b>	Field technician properly trained to an expert level for the service being dispatched to diagnose and/or repair a CALNET 3 service problem that turns out to be caused by factors outside the responsibility of the Contractor.	Y		<b>FSTR0000</b>
	<b>Bidder’s Product Description:</b> Verizon will provide a Field technician properly trained to an expert level for the service being dispatched to diagnose and/or repair a CALNET 3 service problem that turns out to be caused by factors outside the responsibility of the Contractor.				
2	<b>Field Service Repair Technician Overtime Hours</b>	Field technician properly trained to an expert level for the service being dispatched to diagnose and/or repair a CALNET 3 service problem that turns out to be caused by factors outside the responsibility of the Contractor.	Y		<b>FSTO0000</b>
	<b>Bidder’s Product Description:</b> Verizon will provide a Field technician properly trained to an expert level for the service being dispatched to diagnose and/or repair a CALNET 3 service problem that turns out to be caused by factors outside the responsibility of the Contractor.				

	Labor Classification Name	Classification Description	Bidder Meets or Exceeds? Y N		Bidder's Product Identifier
3	<b>Field Service Repair Technician Sunday and Holiday Hours</b>	Field technician properly trained to an expert level for the service being dispatched to diagnose and/or repair a CALNET 3 service problem that turns out to be caused by factors outside the responsibility of the Contractor.	Y		<b>FSTH0000</b>
	<b>Bidder's Product Description:</b> Verizon will provide a Field technician properly trained to an expert level for the service being dispatched to diagnose and/or repair a CALNET 3 service problem that turns out to be caused by factors outside the responsibility of the Contractor.				

#### 5.4.4 SERVICES RELATED INFRASTRUCTURE

*This service is in support of all CALNET categories provided by Verizon. Specific to moves, adds and changes to support these services provided by Verizon.*

Table 5.4.4.a Services Related Infrastructure Regular Hours

	Feature Name	Feature Description	Bidder's Product Identifier
<b>Telco Room - MDF/IDF/MPOE</b>			
1	<b>Install customer provided UPS</b>	Install customer provided UPS	CPEU0000
	<b>Bidder's Product Description:</b> Install customer provided UPS		
2	<b>Cable 48-port switch (patch cords)</b>	Install patch cords in customer provided device. Total of 48 patch cords provided and installed.	SWTH0048
	<b>Bidder's Product Description:</b> Install patch cords in customer provided device. Total of 48 patch cords provided and installed.		
3	<b>7' 2-post rack</b>	Provide and install 7' 2-post rack	RACK0002
	<b>Bidder's Product Description:</b> Provide and install 7' 2-post rack		
4	<b>7' 4-post rack</b>	Provide and install 7' 4-post rack	RACK0004

	Feature Name	Feature Description	Bidder's Product Identifier
	<b>Bidder's Product Description:</b> Provide and install 7' 4-post rack		
5	Install customer provided rack	Install customer provided rack	CPER0000
	<b>Bidder's Product Description:</b> Install customer provided rack		
6	Horizontal wire manager	Install and provide horizontal wire manager	HWMN0000
	<b>Bidder's Product Description:</b> Install and provide horizontal wire manager		
7	Vertical wire manager	Install and provide vertical wire manager	VWMN0000
	<b>Bidder's Product Description:</b> Install and provide vertical wire manager		
8	Install customer provided wire manager	Install and provide vertical wire manager	CPEW0000
	<b>Bidder's Product Description:</b> Install and provide vertical wire manager		
9	Shelf (single sided 3U)	Provide and Install each shelf (single sided 3U)	SHLF0000
	<b>Bidder's Product Description:</b> Provide and Install each shelf (single sided 3U)		
10	Customer provided shelf	Install customer provided shelf	CPSH0000
	<b>Bidder's Product Description:</b> Install customer provided shelf		
11	Hinged Wall Bracket	Provide and install Hinged Wall Bracket	HWBR0000
	<b>Bidder's Product Description:</b> Provide and install Hinged Wall Bracket		
12	4' x 4' x 3/4" painted plywood backboard	Provide and install 4' x 4' x 3/4" painted plywood backboard – fire rated	PLBD0000
	<b>Bidder's Product Description:</b> Provide and install 4' x 4' x 3/4" painted plywood backboard – fire rated		

	Feature Name	Feature Description	Bidder's Product Identifier
13	<b>Power strip (4 outlets)</b>	Provide and Install each power strip (4 outlets). Standard plug in power strip.	PWRS0004
	<b>Bidder's Product Description:</b> Provide and Install each power strip (4 outlets). Standard plug in power strip.		
14	<b>10' of 12" ladder rack and support hardware</b>	Provide and install up to 10' of 12" ladder rack and support hardware.	TRML0000
	<b>Bidder's Product Description:</b> Provide and install up to 10' of 12" ladder rack and support hardware.		
15	<b>Communication pole 10 feet</b>	Provide and install Communication pole 10 feet. Matches existing modular furniture manufacturer if available.	TRMC0010
	<b>Bidder's Product Description:</b> Provide and install Communication pole 10 feet. Matches existing modular furniture manufacturer if available.		
16	<b>One (1) 20 Amp Duplex Outlet within 75' of Existing Panel</b>	Provide and install one (1) 20 Amp Duplex Outlet within 75' of Existing Panel. Not to exceed price. IPR available for reduced rates.	AMDO0000
	<b>Bidder's Product Description:</b> Provide and install one (1) 20 Amp Duplex Outlet within 75' of Existing Panel. Not to exceed price. IPR available for reduced rates.		
<b>Backbone Cabling Placing and Consumables</b>			
17	<b>6-strand MM ISP fiber</b>	Provide and install 6-strand MM ISP fiber. 50 μ or 62.5 μ fiber plenum	BCMM0006
	<b>Bidder's Product Description:</b> Provide and install 6-strand MM ISP fiber. 50 μ or 62.5 μ fiber plenum		
18	<b>6-strand SM ISP fiber</b>	Provide and install 6-strand SM ISP fiber. 8.3 μ fiber plenum	BCSM0006
	<b>Bidder's Product Description:</b> Provide and install 6-strand SM ISP fiber. 8.3 μ fiber plenum		
19	<b>12-strand MM ISP fiber</b>	Provide and install 12-strand MM ISP fiber. 50 μ or 62.5 μ fiber plenum	BCMM0012

	Feature Name	Feature Description	Bidder's Product Identifier
	<b>Bidder's Product Description:</b> Provide and install 12-strand MM ISP fiber. 50 μ or 62.5 μ fiber plenum		
20	<b>12-strand SM ISP fiber</b>	Provide and install 12-strand SM ISP fiber. 8.3 μ fiber plenum	BCSM0012
	<b>Bidder's Product Description:</b> Provide and install 12-strand SM ISP fiber. 8.3 μ fiber plenum		
21	<b>6-strand MM Indoor/Outdoor Fiber</b>	Provide and install 6-strand MM Indoor/Outdoor fiber	OSMM0006
	<b>Bidder's Product Description:</b> Provide and install 6-strand MM Indoor/Outdoor fiber		
22	<b>6-strand SM Indoor/Outdoor Fiber</b>	Provide and install 6-strand SM Indoor/Outdoor fiber	OSSM0006
	<b>Bidder's Product Description:</b> Provide and install 6-strand SM Indoor/Outdoor fiber		
23	12-strand MM Indoor/Outdoor Fiber	Provide and install 12-strand MM Indoor/Outdoor fiber.	OSMM0012
	<b>Bidder's Product Description:</b> Provide and install 12-strand MM Indoor/Outdoor fiber		
24	<b>12-strand SM Indoor/Outdoor Fiber</b>	Provide and install 12-strand SM Indoor/Outdoor fiber.	OSSM0012
	<b>Bidder's Product Description:</b> Provide and install 12-strand SM Indoor/Outdoor fiber.		
25	<b>24-strand SM OSP underground fiber</b>	Provide and install 24-strand SM OSP underground fiber.	OASM0024
	<b>Bidder's Product Description:</b> Provide and install 24-strand SM OSP underground fiber.		
26	<b>48-strand SM OSP underground fiber</b>	Provide and install 48-strand SM OSP underground fiber.	OASM0048
	<b>Bidder's Product Description:</b> Provide and install 48-strand SM OSP underground fiber.		
27	<b>24-strand SM Indoor/Outdoor Fiber</b>	Provide and install 24-strand SM Indoor/Outdoor fiber.	OFSM0024

	Feature Name	Feature Description	Bidder's Product Identifier
	<b>Bidder's Product Description:</b> Provide and install 24-strand SM Indoor/Outdoor fiber		
28	<b>48-strand SM Indoor/Outdoor Fiber</b>	Provide and install 48-strand SM Indoor/Outdoor fiber.	OFSM0048
	<b>Bidder's Product Description:</b> Provide and install 48-strand SM Indoor/Outdoor fiber.		
29	<b>1" innerduct underground in existing duct</b>	Provide and install 1" innerduct underground in existing duct. Override situations will be accessed by contractor for viability.	NDRG0001
	<b>Bidder's Product Description:</b> Provide and install 1" innerduct underground in existing duct. Override situations will be accessed by contractor for viability.		
30	<b>1 1/4" innerduct underground in existing duct</b>	Provide and install 1 1/4" innerduct underground in existing duct. Override situations will be accessed by contractor for viability	NDRG0002
	<b>Bidder's Product Description:</b> Provide and install 1 1/4" innerduct underground in existing duct. Override situations will be accessed by contractor for viability		
31	<b>25-pair copper ISP</b>	Provide and install 25-pair copper ISP. Plenum.	ISPC0025
	<b>Bidder's Product Description:</b> Provide and install 25-pair copper ISP. Plenum.		
32	<b>25-pair copper underground OSP</b>	Provide and install 25-pair copper underground OSP.	OSPC0025
	<b>Bidder's Product Description:</b> Provide and install 25-pair copper underground OSP.		
33	<b>50-pair copper ISP</b>	Provide and install 50-pair copper ISP. Plenum.	ISPC0050
	<b>Bidder's Product Description:</b> Provide and install 50-pair copper ISP. Plenum		
34	<b>50-pair copper underground OSP</b>	Provide and install 50-pair copper underground OSP.	OSPC0050
	<b>Bidder's Product Description:</b> Provide and install 50-pair copper underground OSP.		
35	<b>100-pair copper ISP</b>	Provide and install 100-pair copper ISP. Plenum.	ISPC0100
	<b>Bidder's Product Description:</b> Provide and install 100-pair copper ISP. Plenum.		

	Feature Name	Feature Description	Bidder's Product Identifier
36	<b>100-pair copper underground OSP</b>	Provide and install 100-pair copper underground OSP.	OSPC0100
	<b>Bidder's Product Description:</b> Provide and install 100-pair copper underground OSP.		
<b>Backbone and Circuit Extension Cable Placing and Consumables</b>			
37	<b>300' Cat 6 copper ISP circuit extension</b>	Provide and install up to 300' Cat 6 copper ISP circuit extension. Plenum	CETN0001
	<b>Bidder's Product Description:</b> Provide and install up to 300' Cat 6 copper ISP circuit extension. Plenum		
38	<b>300' Cat 6 copper OSP circuit extension</b>	Provide and install up to 300' Cat 6 copper OSP circuit extension.	CETN0002
	<b>Bidder's Product Description:</b> Provide and install up to 300' Cat 6 copper OSP circuit extension.		
39	<b>300' 25-pair copper ISP circuit extension</b>	Provide and install up to 300' 25-pair copper ISP circuit extension. Plenum.	CETN0003
	<b>Bidder's Product Description:</b> Provide and install up to 300' 25-pair copper ISP circuit extension. Plenum		
40	<b>300' 25-pair copper OSP circuit extension</b>	Provide and install up to 300' 25-pair copper OSP circuit extension.	CETN0004
	<b>Bidder's Product Description:</b> Provide and install up to 300' 25-pair copper OSP circuit extension.		
41	<b>300' RG58 COAX ISP</b>	Provide and install up to 300' RG58 COAX ISP. Plenum.	CETN0005
	<b>Bidder's Product Description:</b> Provide and install up to 300' RG58 COAX ISP. Plenum.		
42	<b>300' RG62 COAX ISP</b>	Provide and install up to 300' RG62 COAX ISP. Plenum.	CETN0006
	<b>Bidder's Product Description:</b> Provide and install up to 300' RG62 COAX ISP. Plenum.		

	Feature Name	Feature Description	Bidder's Product Identifier
43	<b>300' RG6 COAX ISP</b>	Provide and install up to 300' RG6 COAX ISP. Plenum.	CETN0007
	<b>Bidder's Product Description:</b> Provide and install up to 300' RG6 COAX ISP. Plenum.		
<b>Backbone and Circuit Extension - Termination Hardware</b>			
44	<b>25-pair protector</b>	Provide and install 25-pair protector. Gas modules or match existing.	CETH0001
	<b>Bidder's Product Description:</b> Provide and install 25-pair protector. Gas modules or match existing.		
45	<b>50-pair protector</b>	Provide and install 50-pair protector. Gas modules or match existing.	CETH0002
	<b>Bidder's Product Description:</b> Provide and install 50-pair protector. Gas modules or match existing.		
46	<b>100-pair protector</b>	Provide and install 100-pair protector. Gas modules or match existing.	CETH0003
	<b>Bidder's Product Description:</b> Provide and install 100-pair protector. Gas modules or match existing.		
47	<b>4-pair protector</b>	Provide and install 4-pair protector. Gas modules or match existing.	CETH0004
	<b>Bidder's Product Description:</b> Provide and install 4-pair protector. Gas modules or match existing.		
48	<b>Protector modules</b>	Provide and install protector modules. Gas modules or match existing.	CETH0005
	<b>Bidder's Product Description:</b> Provide and install 4-pair protector. Gas modules or match existing.		
49	<b>BIX mount 250-pair</b>	Provide and install BIX mount 250-pair.	CETH0006

	Feature Name	Feature Description	Bidder's Product Identifier
	<b>Bidder's Product Description:</b> Provide and install 4-pair protector. Gas modules or match existing.		
50	<b>BIX connector</b>	Provide and install BIX connector.	CETH0007
	<b>Bidder's Product Description:</b> Provide and install BIX connector.		
51	<b>BIX ring</b>	Provide and install BIX ring.	CETH0008
	<b>Bidder's Product Description:</b> Provide and install 66-type Block 50 pair.		
52	<b>66-type Block 50 pair</b>	Provide and install 66-type Block 50 pair.	CETH0009
	<b>Bidder's Product Description:</b> Provide and install 66-type Block 50 pair.		
53	<b>110-style block 100 pair kit</b>	Provide and install 110-style block 100 pair kit. Includes C4 or C5 clips.	CETH0010
	<b>Bidder's Product Description:</b> Provide and install 110-style block 100 pair kit. Includes C4 or C5 clips		
54	<b>Rack Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber</b>	Provide and install Rack Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber. Cabinet only. Panels purchased separately.	CETH0011
	<b>Bidder's Product Description:</b> Provide and install Rack Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber. Cabinet only. Panels purchased separately.		
55	<b>Rack Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber</b>	Provide and install Rack Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber. Cabinet only. Panels purchased separately.	CETH0012
	<b>Bidder's Product Description:</b> Provide and install Rack Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber. Cabinet only. Panels purchased separately.		
56	<b>Wall Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber</b>	Provide and install Wall Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber. Cabinet only. Panels purchased separately.	CETH0013

	Feature Name	Feature Description	Bidder's Product Identifier
	<b>Bidder's Product Description:</b> Provide and install Wall Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber. Cabinet only. Panels purchased separately.		
57	<b>Wall Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber</b>	Provide and install Wall Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber. Cabinet only. Panels purchased separately.	CETH0014
	<b>Bidder's Product Description:</b> Provide and install Wall Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber. Cabinet only. Panels purchased separately.		
58	<b>6-strand connector panel MM 50/125 SC</b>	Provide and Install 6-strand connector panel MM 50/125 SC. Complete with couplers.	CETH0015
	<b>Bidder's Product Description:</b> Provide and Install 6-strand connector panel MM 50/125 SC. Complete with couplers.		
59	<b>6-strand connector panel MM 50/125 LC</b>	Provide and install 6-strand connector panel MM 50/125 LC. Complete with couplers.	CETH0016
	<b>Bidder's Product Description:</b> Provide and install 6-strand connector panel MM 50/125 LC. Complete with couplers.		
60	<b>6-strand connector panel MM 62.5/125 SC</b>	Provide and install 6-strand connector panel MM 62.5/125 SC. Complete with couplers.	CETH0017
	<b>Bidder's Product Description:</b> Provide and install 6-strand connector panel MM 50/125 LC. Complete with couplers.		
61	<b>6-strand connector panel MM 62.5/125 LC</b>	Provide and install 6-strand connector panel MM 62.5/125 LC. Complete with couplers.	CETH0018
	<b>Bidder's Product Description:</b> Provide and install 6-strand connector panel MM 62.5/125 LC. Complete with couplers		
62	<b>12-strand connector panel MM 50/125 SC</b>	Provide and install 12-strand connector panel MM 50/125 SC. Complete with couplers.	CETH0019
	<b>Bidder's Product Description:</b> Provide and install 12-strand connector panel MM 50/125 SC. Complete with couplers.		

	Feature Name	Feature Description	Bidder's Product Identifier
63	<b>12-strand connector panel MM 50/125 LC</b>	Provide and install 12-strand connector panel MM 50/125 LC. Complete with couplers.	CETH0020
	<b>Bidder's Product Description:</b> Provide and install 12-strand connector panel MM 50/125 LC. Complete with couplers.		
64	<b>12-strand connector panel MM 62.5/125 SC</b>	Provide and install 12-strand connector panel MM 62.5/125 SC. Complete with couplers.	CETH0021
	<b>Bidder's Product Description:</b> Provide and install 12-strand connector panel MM 62.5/125 SC. Complete with couplers.		
65	<b>12-strand connector panel MM 62.5/125 LC</b>	Provide and install 12-strand connector panel MM 62.5/125 LC, Complete with couplers.	CETH0022
	<b>Bidder's Product Description:</b> Provide and install 12-strand connector panel MM 62.5/125 LC, Complete with couplers.		
66	<b>6-strand connector panel SM SC</b>	Provide and install 6-strand connector panel SM SC. Complete with couplers.	CETH0023
	<b>Bidder's Product Description:</b> Provide and install 6-strand connector panel SM LC. Complete with couplers.		
67	<b>6-strand connector panel SM LC</b>	Provide and install 6-strand connector panel SM LC. Complete with couplers.	CETH0024
	<b>Bidder's Product Description:</b> Provide and install 6-strand connector panel SM LC. Complete with couplers.		
68	<b>12-strand connector panel SM SC</b>	Provide and install 12-strand connector panel SM SC. Complete with couplers.	CETH0025
	<b>Bidder's Product Description:</b> Provide and install 12-strand connector panel SM SC. Complete with couplers.		
69	<b>12-strand connector panel SM LC</b>	Provide and install 12-strand connector panel SM LC. Complete with couplers.	CETH0026

	Feature Name	Feature Description	Bidder's Product Identifier
	<b>Bidder's Product Description:</b> Provide and install 12-strand connector panel SM LC. Complete with couplers		
70	<b>Provide SC Compatible 50µm Multimode connector (material only)</b>	Must be ordered with Product Identifiers CETT0005 or CETT0006 and CETT0007.	CETH0027
	<b>Bidder's Product Description:</b> Provide SC Compatible 50µm Multimode connector (material only) Provide SC Compatible 50µm Multimode connector (material only). Provide SC Compatible 50µm Multimode connector (material only)		
71	<b>Provide SC Compatible 62.5µm Multimode connector (material only)</b>	Must be ordered with Product Identifiers CETT0005 or CETT0006 and CETT0007.	CETH0028
	<b>Bidder's Product Description:</b> Provide SC Compatible 50µm Multimode connector (material only). Must be ordered with Product Identifiers CETT0005 or CETT0006 and CETT0007.		
72	<b>Provide SC Compatible Single Mode connector (material only)</b>	Must be ordered with Product Identifiers CETT0005 or CETT0006 and CETT0007.	CETH0029
	<b>Bidder's Product Description:</b> Provide SC Compatible Single Mode connector (material only). Must be ordered with Product Identifiers CETT0005 or CETT0006 and CETT0007		
73	<b>Provide LC Compatible 50µm Multimode connector (material only)</b>	Must be ordered with Product Identifiers CETT0005 or CETT0006 and CETT0007.	CETH0030
	<b>Bidder's Product Description:</b> Provide LC Compatible 50µm Multimode connector (material only). Must be ordered with Product Identifiers CETT0005 or CETT0006 and CETT0007		
74	<b>Provide LC Compatible 62.5µm Multimode connector (material only)</b>	Must be ordered with Product Identifiers CETT0005 or CETT0006 and CETT0007.	CETH0031

	Feature Name	Feature Description	Bidder's Product Identifier
	<b>Bidder's Product Description:</b> Provide LC Compatible 62.5µm Multimode connector (material only). Must be ordered with Product Identifiers CETT0005 or CETT0006 and CETT0007		
75	<b>Provide LC Compatible Single Mode connector (material only)</b>	Must be ordered with Product Identifiers CETT0005 or CETT0006 and CETT0007.	CETH0032
	<b>Bidder's Product Description:</b> Provide LC Compatible Single Mode connector (material only). Must be ordered with Product Identifiers CETT0005 or CETT0006 and CETT0007.		
76	<b>Multimode 62.5/125 SC To SC 1 Meter Patch Cable</b>	Provide and install Multimode 62.5/125 SC To SC 1 Meter Patch Cable.	CETH0033
	<b>Bidder's Product Description:</b> Provide and install Multimode 62.5/125 SC To SC 1 Meter Patch Cable		
77	<b>Multimode 62.5/125 SC To SC 3 Meter Patch Cable</b>	Provide and install Multimode 62.5/125 SC To SC 3 Meter Patch Cable.	CETH0034
	<b>Bidder's Product Description:</b> Provide and install Multimode 62.5/125 SC To SC 3 Meter Patch Cable.		
78	<b>Multimode 62.5/125 SC To SC 10 Meter Patch Cable</b>	Provide and Install Multimode 62.5/125 SC To SC 10 Meter Patch Cable.	CETH0035
	<b>Bidder's Product Description:</b> Provide and Install Multimode 62.5/125 SC To SC 10 Meter Patch Cable		
79	<b>Multimode 62.5/125 SC To LC 1 Meter Patch Cable</b>	Provide and install Multimode 62.5/125 SC To LC 1 Meter Patch Cable.	CETH0036
	<b>Bidder's Product Description:</b> Provide and install Multimode 62.5/125 SC To LC 1 Meter Patch Cable.		
80	<b>Multimode 62.5/125 SC To LC 3 Meter Patch Cable</b>	Provide and install Multimode 62.5/125 SC To LC 3 Meter Patch Cable.	CETH0037

	Feature Name	Feature Description	Bidder's Product Identifier
	<b>Bidder's Product Description:</b> Provide and install Multimode 62.5/125 SC To LC 3 Meter Patch Cable.		
81	<b>Multimode 62.5/125 SC To LC 10 Meter Patch Cable</b>	Provide and install Multimode 62.5/125 SC To LC 10 Meter Patch Cable.	CETH0038
	<b>Bidder's Product Description:</b> Provide and install Multimode 62.5/125 SC To LC 3 Meter Patch Cable.		
82	<b>Multimode 62.5/125 LC To LC 1 Meter Patch Cable</b>	Provide and install Multimode 62.5/125 LC To LC 1 Meter Patch Cable.	CETH0039
	<b>Bidder's Product Description:</b> Provide and install Multimode 62.5/125 LC To LC 1 Meter Patch Cable.		
83	<b>Multimode 62.5/125 LC To LC 3 Meter Patch Cable</b>	Provide and install Multimode 62.5/125 LC To LC 3 Meter Patch Cable.	CETH0040
	<b>Bidder's Product Description:</b> Provide and install Multimode 62.5/125 LC To LC 3 Meter Patch Cable.		
84	<b>Multimode 62.5/125 LC To LC 10 Meter Patch Cable</b>	Provide and install Multimode 62.5/125 LC To LC 10 Meter Patch Cable.	CETH0041
	<b>Bidder's Product Description:</b> Provide and install Multimode 62.5/125 LC To LC 10 Meter Patch Cable.		
85	<b>Multimode 50/125 SC To SC 1 Meter Patch Cable</b>	Provide and install Multimode 50/125 SC To SC 1 Meter Patch Cable.	CETH0042
	<b>Bidder's Product Description:</b> Provide and install Multimode 62.5/125 LC To LC 10 Meter Patch Cable.		
86	<b>Multimode 50/125 SC To SC 3 Meter Patch Cable</b>	Provide and install Multimode 50/125 SC To SC 3 Meter Patch Cable.	CETH0043
	<b>Bidder's Product Description:</b> Provide and install Multimode 50/125 SC To SC 3 Meter Patch Cable.		

	Feature Name	Feature Description	Bidder's Product Identifier
87	<b>Multimode 50/125 SC To SC 10 Meter Patch Cable</b>	Provide and install Multimode 50/125 SC To SC 10 Meter Patch Cable.	CETH0044
	<b>Bidder's Product Description:</b> Provide and install Multimode 50/125 SC To SC 10 Meter Patch Cable		
88	<b>Multimode 50/125 SC To LC 1 Meter Patch Cable</b>	Provide and install Multimode 50/125 SC To LC 1 Meter Patch Cable.	CETH0045
	<b>Bidder's Product Description:</b> Provide and install Multimode 50/125 SC To SC 10 Meter Patch Cable		
89	<b>Multimode 50/125 SC To LC 3 Meter Patch Cable</b>	Provide and install Multimode 50/125 SC To LC 3 Meter Patch Cable.	CETH0046
	<b>Bidder's Product Description:</b> Provide and install Multimode 50/125 SC To LC 3 Meter Patch Cable.		
90	<b>Multimode 50/125 SC To LC 10 Meter Patch Cable</b>	Provide and install Multimode 50/125 SC To LC 10 Meter Patch Cable.	CETH0047
	<b>Bidder's Product Description:</b> Provide and install Multimode 50/125 SC To LC 10 Meter Patch Cable.		
91	<b>Multimode 50/125 LC To LC 1 Meter Patch Cable</b>	Provide and install Multimode 50/125 LC To LC 1 Meter Patch Cable.	CETH0048
	<b>Bidder's Product Description:</b> Provide and install Multimode 50/125 SC To LC 10 Meter Patch Cable.		
92	<b>Multimode 50/125 LC To LC 3 Meter Patch Cable</b>	Provide and install Multimode 50/125 LC To LC 3 Meter Patch Cable.	CETH0049
	<b>Bidder's Product Description:</b> Provide and install Multimode 50/125 LC To LC 3 Meter Patch Cable.		
93	<b>Multimode 50/125 LC To LC 10 Meter Patch Cable</b>	Provide and install Multimode 50/125 LC To LC 10 Meter Patch Cable.	CETH0050

	Feature Name	Feature Description	Bidder's Product Identifier
	<b>Bidder's Product Description:</b> Provide and install Multimode 50/125 LC To LC 10 Meter Patch Cable.		
94	<b>Single Mode 9/125 SC To SC 1 Meter Patch Cable</b>	Provide and install Single Mode 9/125 SC To SC 1 Meter Patch Cable.	CETH0051
	<b>Bidder's Product Description:</b> Provide and install Single Mode 9/125 SC To SC 1 Meter Patch Cable.		
95	<b>Single Mode 9/125 SC To SC 3 Meter Patch Cable</b>	Provide and install Single Mode 9/125 SC To SC 3 Meter Patch Cable.	CETH0052
	<b>Bidder's Product Description:</b> Provide and install Single Mode 9/125 SC To SC 3 Meter Patch Cable.		
96	<b>Single Mode 9/125 SC To SC 10 Meter Patch Cable</b>	Provide and install Single Mode 9/125 SC To SC 10 Meter Patch Cable.	CETH0053
	<b>Bidder's Product Description:</b> Provide and install Single Mode 9/125 SC To SC 10 Meter Patch Cable.		
97	<b>Single Mode 9/125 SC To LC 1 Meter Patch Cable</b>	Provide and install Single Mode 9/125 SC To LC 1 Meter Patch Cable.	CETH0054
	<b>Bidder's Product Description:</b> Provide and install Single Mode 9/125 SC To LC 1 Meter Patch Cable.		
98	<b>Single Mode 9/125 SC To LC 3 Meter Patch Cable</b>	Provide and install Single Mode 9/125 SC To LC 3 Meter Patch Cable.	CETH0055
	<b>Bidder's Product Description:</b> Provide and install Single Mode 9/125 SC To LC 3 Meter Patch Cable.		
99	<b>Single Mode 9/125 SC To LC 10 Meter Patch Cable</b>	Provide and install Single Mode 9/125 SC To LC 10 Meter Patch Cable.	CETH0056
	<b>Bidder's Product Description:</b> Provide and install Single Mode 9/125 SC To LC 10 Meter Patch Cable.		

	Feature Name	Feature Description	Bidder's Product Identifier
100	<b>Single Mode 9/125 LC To LC 1 Meter Patch Cable</b>	Provide and install Single Mode 9/125 LC To LC 1 Meter Patch Cable.	CETH0057
	<b>Bidder's Product Description:</b> Provide and install Single Mode 9/125 LC To LC 1 Meter Patch Cable		
101	<b>Single Mode 9/125 LC To LC 3 Meter Patch Cable</b>	Provide and install Single Mode 9/125 LC To LC 3 Meter Patch Cable.	CETH0058
	<b>Bidder's Product Description:</b> Provide and install Single Mode 9/125 LC To LC 3 Meter Patch Cable.		
102	<b>Single Mode 9/125 LC To LC 10 Meter Patch Cable</b>	Provide and install Single Mode 9/125 LC To LC 10 Meter Patch Cable.	CETH0059
	<b>Bidder's Product Description:</b> Provide and install Single Mode 9/125 LC To LC 10 Meter Patch Cable.		
<b>Backbone and Circuit Extension Termination and/or Testing</b>			
103	<b>Copper cable termination per pair (25 pair and larger)</b>	Labor and consumables to terminate and test media.	CETT0001
	<b>Bidder's Product Description:</b> Provide and install Single Mode 9/125 LC To LC 1 Meter Patch Cable. Labor and consumables to terminate and test media.		
104	<b>Copper cable splicing per pair (25 pair and larger)</b>	Labor and consumables to terminate and test media.	CETT0002
	<b>Bidder's Product Description:</b> Copper cable splicing per pair (25 pair and larger). Labor and consumables to terminate and test media.		
105	<b>Copper cable testing per pair (25 pair and larger)</b>	Labor to perform continuity test.	CETT0003
	<b>Bidder's Product Description:</b> Copper cable testing per pair (25 pair and larger). Labor to perform continuity test		
106	<b>Tone, locate, test, document Circuit</b>	Test and Tone on both sides of a single circuit, copper pair, between termination points.	CETT0004

	Feature Name	Feature Description	Bidder's Product Identifier
		<b>Bidder's Product Description:</b> Test and Tone on both sides of a single circuit, copper pair, between termination points.	
107	Install Fiber termination connector	Labor only.	CETT0005
	<b>Bidder's Product Description:</b> Install Fiber termination connector. Labor only		
108	Splice Fiber per strand	Labor only. SM or MM.	CETT0006
	<b>Bidder's Product Description:</b> Splice Fiber per strand. Labor only. SM or MM		
109	Fiber testing per strand	OTDR.	CETT0007
	<b>Bidder's Product Description:</b> Fiber testing per strand. OTDR.		
110	Provide 4-pair CAT5e termination and testing	Labor only. Includes BICSI standard testing (end to end).	CETT0008
	<b>Bidder's Product Description:</b> Provide 4-pair CAT5e termination and testing. Labor only. Includes BICSI standard testing (end to end).		
111	Terminate and test 4-pair Cat 6	Labor only. Includes BICSI standard testing (end to end).	CETT0009
	<b>Bidder's Product Description:</b> Terminate and test 4-pair Cat 6. Labor only. Includes BICSI standard testing (end to end).		
112	Terminate 4-pair Cat 6	Reterminate one end only jack or patch panel.	CETT0010
	<b>Bidder's Product Description:</b> Labor only. Includes BICSI standard testing (end to end). Retermine one end only jack or patch panel		
113	Test 4-pair Cat 6	Test only Includes BICSI standard testing (end to end)..	CETT0011
	<b>Bidder's Product Description:</b> Test 4-pair Cat 6. Test only Includes BICSI standard testing (end to end)..		

	Feature Name	Feature Description	Bidder's Product Identifier
114	<b>Terminate and test 4-pair Cat 6A</b>	Labor only. Includes BICSI standard testing (end to end)..	CETT0012
	<b>Bidder's Product Description:</b> Terminate and test 4-pair Cat 6A. Labor only. Includes BICSI standard testing (end to end).		
115	<b>Terminate 4-pair Cat 6A</b>	Reterminate one end only jack or patch panel..	CETT0013
	<b>Bidder's Product Description:</b> Terminate 4-pair Cat 6A. Reterminate one end only jack or patch panel.		
116	<b>Test 4-pair Cat 6A</b>	Test only Includes BICSI standard testing (end to end).	CETT0014
	<b>Bidder's Product Description:</b> Test 4-pair Cat 6A. Test only Includes BICSI standard testing (end to end).		
<b>Station Cabling, Cable Placement and Consumables Only - pull line in place</b>			
117	<b>Single 4-pair Cat 6 PVC cable for voice or data application</b>	Provide and Install single 4-pair Cat 6 PVC cable for voice or data application.	SCCP0001
	<b>Bidder's Product Description:</b> Provide and Install single 4-pair Cat 6 PVC cable for voice or data application.		
118	<b>Single 4-pair Cat 6 plenum cable for voice or data application</b>	Provide and Install single 4-pair Cat 6 plenum cable for voice or data application.	SCCP0002
	<b>Bidder's Product Description:</b> Provide and Install single 4-pair Cat 6 plenum cable for voice or data application.		
119	<b>Single 4-pair Cat 6 OSP cable for voice or data application</b>	Provide and Install single 4-pair Cat 6 OSP cable for voice or data application..	SCCP0003
	<b>Bidder's Product Description:</b> Provide and Install single 4-pair Cat 6A PVC cable for voice or data application.		
120	<b>Single 4-pair Cat 6A PVC cable for</b>	Provide and Install single 4-pair Cat 6A PVC cable for voice or data application.	SCCP0004

	Feature Name	Feature Description	Bidder's Product Identifier
	voice or data application		
	<b>Bidder's Product Description:</b> Provide and Install single 4-pair Cat 6A PVC cable for voice or data application.		
121	Single 4-pair Cat 6A plenum cable for voice or data application	Provide and Install single 4-pair Cat 6A plenum cable for voice or data application.	SCCP0005
	<b>Bidder's Product Description:</b> Provide and Install single 4-pair Cat 6A plenum cable for voice or data application.		
122	Single 4-pair Cat 6A OSP cable for voice or data application	Provide and install single 4-pair Cat 6A OSP cable for voice or data application..	SCCP0006
	<b>Bidder's Product Description:</b> Provide and install single 4-pair Cat 6A OSP cable for voice or data application..		
<b>Additional Components (Material and Labor to install)</b>			
123	One 24-port unloaded Cat 6A Patch Panel	Provide and install one 24-port unloaded Cat 6A Patch Panel	SCML0001
	<b>Bidder's Product Description:</b> Provide and install one 24-port unloaded Cat 6A Patch Panel		
124	One 48-port unloaded Cat 6A Patch Panel	Provide and install one 48-port unloaded Cat 6A Patch Panel	SCML0002
	<b>Bidder's Product Description:</b> Provide and install one 48-port unloaded Cat 6A Patch Panel		
125	New 24-port Cat 6 patch panel	Provide and install new 24-port Cat 6 patch panel	SCML0003
	<b>Bidder's Product Description:</b> Provide and install new 24-port Cat 6 patch panel		
126	New 48-port Cat 6 patch panel	Provide and install new 48-port Cat 6 patch panel	SCML0004
	<b>Bidder's Product Description:</b> Provide and install new 48-port Cat 6 patch panel		
127	New 24-port Cat 6A patch panel	Provide and install new 24-port Cat 6A patch panel	SCML0005

	Feature Name	Feature Description	Bidder's Product Identifier
	<b>Bidder's Product Description:</b> Provide and install new 24-port Cat 6A patch panel		
128	New 48-port Cat 6A patch panel	Provide and install new 48-port Cat 6A patch panel	SCML0006
	<b>Bidder's Product Description:</b> Provide and install new 48-port Cat 6A patch panel		
129	New 12-port Cat 6 patch panel	Provide and install new 12-port Cat 6 patch panel	SCML0007
	<b>Bidder's Product Description:</b> Provide and install new 12-port Cat 6 patch panel		
130	Face plate plastic	Provide and install face plate plastic	SCML0008
	<b>Bidder's Product Description:</b> Provide and install new 12-port Cat 6 patch panel		
131	Modular furniture device plate	Provide and install modular furniture device plate	SCML0009
	<b>Bidder's Product Description:</b> Provide and install new 12-port Cat 6 patch panel		
132	4-port stainless steel faceplate	Provide and install 4-port stainless steel faceplate	SCML0010
	<b>Bidder's Product Description:</b> Provide and install 4-port stainless steel faceplate		
133	6-port stainless steel faceplate	Provide and install 6-port stainless steel faceplate	SCML0011
	<b>Bidder's Product Description:</b> Provide and install 6-port stainless steel faceplate		
134	Cat 6 jack insert	Provide and install Cat 6 jack insert	SCML0012
	<b>Bidder's Product Description:</b> Provide and install Cat 6 jack insert		
135	Cat 6A jack insert	Provide and install Cat 6A jack insert	SCML0013
	<b>Bidder's Product Description:</b> Provide and install Cat 6A jack insert		
136	3' Cat 5e patch cord	Provide and install 3' Cat 5e patch cord	SCML0014
	<b>Bidder's Product Description:</b> Provide and install 3' Cat 5e patch cord		

	Feature Name	Feature Description	Bidder's Product Identifier
137	5' Cat 5e patch cord	Provide and install 5' Cat 5e patch cord	SCML0015
	<b>Bidder's Product Description:</b> Provide and install 5' Cat 5e patch cord		
138	7' Cat 5e patch cord	Provide and install 7' Cat 5e patch cord	SCML0016
	<b>Bidder's Product Description:</b> Provide and install 7' Cat 5e patch cord		
139	10' Cat 5e patch cord	Provide and install 10' Cat 5e patch cord	SCML0017
	<b>Bidder's Product Description:</b> Provide and install 10' Cat 5e patch cord		
140	3' Cat 6 patch cord	Provide and install 3' Cat 6 patch cord	SCML0018
	<b>Bidder's Product Description:</b> Provide and install 3' Cat 6 patch cord		
141	5' Cat 6 patch cord	Provide and install 5' Cat 6 patch cord	SCML0019
	<b>Bidder's Product Description:</b> Provide and install 5' Cat 6 patch cord		
142	7' Cat 6 patch cord	Provide and install 7' Cat 6 patch cord	SCML0020
	<b>Bidder's Product Description:</b> Provide and install 7' Cat 6 patch cord		
143	10' Cat 6 patch cord	Provide and install 10' Cat 6 patch cord	SCML0021
	<b>Bidder's Product Description:</b> Provide and install 10' Cat 6 patch cord		
144	Velcro Ties (roll 25 yards)	Provide and install Velcro Ties (roll 25 yards)	SCML0022
	<b>Bidder's Product Description:</b> Provide and install Velcro Ties (roll 25 yards)		
145	Fiber splice closure	Provide and install Fiber splice closure. OSP rated	SCML0023
	<b>Bidder's Product Description:</b> Provide and install Fiber splice closure. OSP rated		
146	Fiber splice tray	Provide and install Fiber splice tray	SCML0024
	<b>Bidder's Product Description:</b> Provide and install Fiber splice tray		

	Feature Name	Feature Description	Bidder's Product Identifier
147	Copper splice case 4.0x25	Provide and install Copper splice case 4.0x25. OSP rated	SCML0025
	<b>Bidder's Product Description:</b> Provide and install Copper splice case 4.0x25. OSP rated		
148	Copper splice case 6.5x28	Provide and install Copper splice case 6.5x28. OSP rate	SCML0026
	<b>Bidder's Product Description:</b> Provide and install Copper splice case 6.5x28. OSP rate		
149	Provide Copper splice module 25 pair (material only)	Provide Copper splice module 25 pair (material only)	SCML0027
	<b>Bidder's Product Description:</b> Provide Copper splice module 25 pair (material only)		
<b>Pathway</b>			
150	Rod & rope conduit	Pull string or rope provided, rope will be sized appropriately to conduit size	PHWY0001
	<b>Bidder's Product Description:</b> Pull string or rope provided, rope will be sized appropriately to conduit size		
151	Rod, rope and place up to 3 1" innerducts in same conduit		PHWY0002
	<b>Bidder's Product Description:</b> Rod, rope and place up to 3 1" innerducts in same conduit		
152	One stick (10') of 1" EMT & Three (3) 2-hole straps	Provide and install one stick (10') of 1" EMT & Three (3) 2-hole straps	PHWY0003
	<b>Bidder's Product Description:</b> Provide and install one stick (10') of 1" EMT & Three (3) 2-hole straps		
153	One stick (10') of 1 1/4" EMT & three (3) 2-hole straps	Provide and install one stick (10') of 1 1/4" EMT & three (3) 2-hole straps	PHWY0004
	<b>Bidder's Product Description:</b> Provide and install one stick (10') of 1 1/4" EMT & three (3) 2-hole straps		

	Feature Name	Feature Description	Bidder's Product Identifier
154	<b>One stick (10') of 2" EMT &amp; three (3) 2-hole straps</b>	Provide and install one stick (10') of 2" EMT & three (3) 2-hole straps	PHWY0005
	<b>Bidder's Product Description:</b> Provide and install one stick (10') of 2" EMT & three (3) 2-hole straps		
155	<b>One stick (10') of 1" Rigid &amp; three (3) 2-hole straps</b>	Provide and install one stick (10') of 1" Rigid & three (3) 2-hole straps	PHWY0006
	<b>Bidder's Product Description:</b> Provide and install one stick (10') of 1" Rigid & three (3) 2-hole straps		
156	<b>One stick (10') of 1 1/4" Rigid &amp; three (3) 2-hole straps</b>	Provide and install one stick (10') of 1 1/4" Rigid & three (3) 2-hole straps	PHWY0007
	<b>Bidder's Product Description:</b> Provide and install one stick (10') of 1 1/4" Rigid & three (3) 2-hole straps		
157	<b>One stick (10') of 2" Rigid &amp; three (3) 2-hole straps</b>	Provide and install one stick (10') of 2" Rigid & three (3) 2-hole straps	PHWY0008
	<b>Bidder's Product Description:</b> Provide and install one stick (10') of 1 1/4" Rigid & three (3) 2-hole straps		
158	<b>One 1" EMT Stub up from device box to above ceiling including straps, connector and bushing</b>	Provide and install one 1" EMT Stub up from device box to above ceiling including straps, connector and bushing	PHWY0009
	<b>Bidder's Product Description:</b> Provide and install one stick (10') of 1 1/4" Rigid & three (3) 2-hole straps		
159	<b>Surface mount box</b>	Provide and install Surface mount box	PHWY0010
	<b>Bidder's Product Description:</b> Provide and install Surface mount box		
160	<b>1" 2-hole strap, EMT</b>	Provide and install 1" 2-hole strap, EMT	PHWY0011
	<b>Bidder's Product Description:</b> Provide and install 1" 2-hole strap, EMT		

	Feature Name	Feature Description	Bidder's Product Identifier
161	1" bushing, EMT	Provide and install 1" bushing, EMT	PHWY0012
	Bidder's Product Description: Provide and install 1" bushing, EMT		
162	1" compression connector, EMT	Provide and install 1" compression connector, EMT	PHWY0013
	Bidder's Product Description: Provide and install 1" compression connector, EMT		
163	1" compression coupler, EMT	Provide and install 1" compression coupler, EMT	PHWY0014
	Bidder's Product Description: Provide and install 1" compression coupler, EMT		
164	1" unistrut clamp, EMT	Provide and install 1" unistrut clamp, EMT	PHWY0015
	Bidder's Product Description: Provide and install 1" compression coupler, EMT		
165	2" 2-hole strap, EMT	Provide and install 2" 2-hole strap, EMT	PHWY0016
	Bidder's Product Description: Provide and install 2" 2-hole strap, EMT		
166	2" bushing, EMT	Provide and install 2" bushing, EMT	PHWY0017
	Bidder's Product Description: Provide and install 2" bushing, EMT		
167	2" compression connector, EMT	Provide and install 2" compression connector, EMT	PHWY0018
	Bidder's Product Description: Provide and install 2" compression connector, EMT		
168	2" compression coupler, EMT	Provide and install 2" compression coupler, EMT	PHWY0019
	Bidder's Product Description: Provide and install 2" compression coupler, EMT		
169	2" unistrut clamp, EMT	Provide and install 2" compression coupler, EMT	PHWY0020
	Bidder's Product Description: Provide and install 2" compression coupler, EMT		
170	3" 2-hole strap, EMT	Provide and install 3" 2-hole strap, EMT	PHWY0021

	Feature Name	Feature Description	Bidder's Product Identifier
	<b>Bidder's Product Description:</b> Provide and install 3" 2-hole strap, EMT		
171	3" bushing, EMT	Provide and install 3" bushing, EMT	PHWY0022
	<b>Bidder's Product Description:</b> Provide and install 3" bushing, EMT		
172	3" compression connector, EMT	Provide and install 3" compression connector, EMT	PHWY0023
	<b>Bidder's Product Description:</b> Provide and install 3" compression connector, EMT		
173	3" compression coupler, EMT	Provide and install 3" compression coupler, EMT	PHWY0024
	<b>Bidder's Product Description:</b> Provide and install 3" compression connector, EMT		
174	3" unistrut clamp, EMT	Provide and install 3" unistrut clamp, EMT	PHWY0025
	<b>Bidder's Product Description:</b> Provide and install 3" unistrut clamp, EMT		
175	4" 2-hole strap, EMT	Provide and install 4" 2-hole strap, EMT	PHWY0026
	<b>Bidder's Product Description:</b> Provide and install 4" 2-hole strap, EMT		
176	4" bushing, EMT	Provide and install 4" bushing, EMT	PHWY0027
	<b>Bidder's Product Description:</b> Provide and install 4" 2-hole strap, EMT		
177	4" compression connector, EMT	Provide and install 4" compression connector, EMT	PHWY0028
	<b>Bidder's Product Description:</b> Provide and install 4" 2-hole strap, EMT		
178	4" compression coupler, EMT	Provide and install 4" compression coupler, EMT	PHWY0029
	<b>Bidder's Product Description:</b> Provide and install 4" 2-hole strap, EMT		
179	4" unistrut clamp, EMT	Provide and install 4" unistrut clamp, EMT	PHWY0030
	<b>Bidder's Product Description:</b> Provide and install 4" 2-hole strap, EMT		

	Feature Name	Feature Description	Bidder's Product Identifier
180	1" 2-hole strap, Rigid	Provide and install 1" 2-hole strap, Rigid	PHWY0031
	Bidder's Product Description: Provide and install 4" 2-hole strap, EMT		
181	1" bushing, Rigid	Provide and install 1" bushing, Rigid	PHWY0032
	Bidder's Product Description: Provide and install 4" 2-hole strap, EMT		
182	1" compression connector, Rigid	Provide and install 1" compression connector, Rigid	PHWY0033
	Bidder's Product Description: Provide and install 4" 2-hole strap, EMT		
183	1" compression coupler, Rigid	Provide and install 1" compression coupler, Rigid	PHWY0034
	Bidder's Product Description: Provide and install 1" compression coupler, Rigid		
184	1" unistrut clamp, Rigid	Provide and install 1" unistrut clamp, Rigid	PHWY0035
	Bidder's Product Description: Provide and install 1" unistrut clamp, Rigid		
185	2" 2-hole strap, Rigid	Provide and install 2" 2-hole strap, Rigid	PHWY0036
	Bidder's Product Description: Provide and install 2" 2-hole strap, Rigid		
186	2" bushing, Rigid	Provide and install 2" bushing, Rigid	PHWY0037
	Bidder's Product Description: Provide and install 2" bushing, Rigid		
187	2" compression connector, Rigid	Provide and install 2" compression connector, Rigid	PHWY0038
	Bidder's Product Description: Provide and install 2" compression connector, Rigid		
188	2" compression coupler, Rigid	Provide and install 2" compression coupler, Rigid	PHWY0039
	Bidder's Product Description: Provide and install 2" compression coupler, Rigid		
189	2" unistrut clamp, Rigid	Provide and install 2" unistrut clamp, Rigid	PHWY0040

	Feature Name	Feature Description	Bidder's Product Identifier
	<b>Bidder's Product Description:</b> Provide and install 2" unistrut clamp, Rigid		
190	2" J-Hook w/multipurpose clip	Provide and install 2" J-Hook w/multipurpose clip	PHWY0041
	<b>Bidder's Product Description:</b> Provide and install 2" J-Hook w/multipurpose clip		
191	Bell box (raco 5387-0)	Provide and install Bell box (raco 5387-0)	PHWY0042
	<b>Bidder's Product Description:</b> Provide and install Bell box (raco 5387-0)		
192	8"x8"x6" pull box NEMA 1	Provide and install 8"x8"x6" pull box NEMA 1	PHWY0043
	<b>Bidder's Product Description:</b> Provide and install 8"x8"x6" pull box NEMA 1		
193	12"x12"x8" NEMA 1 junction box NEMA 1	Provide and install 12"x12"x8" NEMA 1 junction box NEMA 1	PHWY0044
	<b>Bidder's Product Description:</b> Provide and install 12"x12"x8" NEMA 1 junction box NEMA 1		
194	12"x12"x8" NEMA 1 junction box NEMA 3	Provide and install 12"x12"x8" NEMA 1 junction box NEMA 3	PHWY0045
	<b>Bidder's Product Description:</b> Provide and install 12"x12"x8" NEMA 1 junction box NEMA 3		
195	Install customer provided WAP (Wireless Access Point); (does not include configuration)	Install customer provided WAP (Wireless Access Point); (does not include configuration).	PHWY0046
	<b>Bidder's Product Description:</b> Provide and install 12"x12"x8" NEMA 1 junction box NEMA 3		
196	WAP (Wireless Access Point) Enclosure	Provide and install WAP (Wireless Access Point) Enclosure	PHWY0047
	<b>Bidder's Product Description:</b> Provide and install WAP (Wireless Access Point) Enclosure		
197	Install customer provided Camera	Install customer provided Camera (does not include configuration).	PHWY0048

	Feature Name	Feature Description	Bidder's Product Identifier
	(does not include configuration)		
	<b>Bidder's Product Description:</b> Provide and install WAP (Wireless Access Point) Enclosure		
198	Install customer provided paging speaker Drop Tile Ceiling	Includes installation hardware; speaker is not included	PHWY0049
	<b>Bidder's Product Description:</b> Install customer provided paging speaker Drop Tile Ceiling. Includes installation hardware; speaker is not included		
199	Unistrut slotted 7/8"	Provide and install Unistrut slotted 7/8"	PHWY0050
	<b>Bidder's Product Description:</b> Includes installation hardware; speaker is not included		
200	1" unistrut straps	Provide and install 1" unistrut straps	PHWY0051
	<b>Bidder's Product Description:</b> Provide and install 1" unistrut straps		
201	2" unistrut straps	Provide and install 2" unistrut straps	PHWY0052
	<b>Bidder's Product Description:</b> Provide and install 1" unistrut straps		
202	1" EMT sleeve (core or penetration not included)	Provide and install 1" EMT sleeve (core or penetration not included)	PHWY0053
	<b>Bidder's Product Description:</b> Provide and install 1" EMT sleeve (core or penetration not included)		
203	2" EMT sleeve (core or penetration not included)	Provide and install 2" EMT sleeve (core or penetration not included)	PHWY0054
	<b>Bidder's Product Description:</b> Provide and install 2" EMT sleeve (core or penetration not included)		
204	3" EMT sleeve (core or penetration not included)	Provide and install 3" EMT sleeve (core or penetration not included)	PHWY0055

	Feature Name	Feature Description	Bidder's Product Identifier
	<b>Bidder's Product Description:</b> Provide and install 3" EMT sleeve (core or penetration not included)		
205	4" EMT sleeve (core or penetration not included)	Provide and install 4" EMT sleeve (core or penetration not included)	PHWY0056
	<b>Bidder's Product Description:</b> Provide and install 4" EMT sleeve (core or penetration not included)		
206	8"x8"x6" pull box NEMA R3	Provide and install 8"x8"x6" pull box NEMA R3	PHWY0057
	<b>Bidder's Product Description:</b> Provide and install 4" EMT sleeve (core or penetration not included)		
<b>Raceway</b>			
207	Raceway 5-foot base ivory and cover 2300BAC plastic (2 1/4" x 11/16")	Provide and install raceway 5-foot base ivory and cover 2300BAC plastic (2 1/4" x 11/16")	RCWY0001
	<b>Bidder's Product Description:</b> Provide and install raceway 5-foot base ivory and cover 2300BAC plastic (2 1/4" x 11/16")		
208	Raceway Cover clip 2306	Provide and install raceway Cover clip 2306	RCWY0002
	<b>Bidder's Product Description:</b> Provide and install raceway Cover clip 2306		
209	Raceway Internal elbow 2317DF0	Provide and install raceway External bend 2318DF0	RCWY0003
	<b>Bidder's Product Description:</b> Provide and install raceway External bend 2318DF0		
210	Raceway External bend 2318DF0	Provide and install raceway External bend 2318DF0	RCWY0004
	<b>Bidder's Product Description:</b> Provide and install raceway External bend 2318DF0		
211	Raceway Flat elbow 2311DF0	Provide and install raceway Flat elbow 2311DF0	RCWY0005
	<b>Bidder's Product Description:</b> Provide and install raceway Flat elbow 2311DF0		

	Feature Name	Feature Description	Bidder's Product Identifier
212	Raceway Wire clip ivory 2300WC	Provide and install raceway Wire clip ivory 2300WC	RCWY0006
	Bidder's Product Description: Provide and install raceway Wire clip ivory 2300WC		
213	Raceway Blank end fitting 2310B	Provide and install raceway Blank end fitting 2310B	RCWY0007
	Bidder's Product Description: Provide and install raceway Blank end fitting 2310B		
214	Raceway Entrance fitting 2310A	Provide and install raceway Entrance fitting 2310A	RCWY0008
	Bidder's Product Description: Provide and install raceway Entrance fitting 2310A		
215	Raceway Tee 2315	Provide and install raceway Tee 2315	RCWY0009
	Bidder's Product Description: Provide and install raceway Tee 2315		
<b>Other Tasks</b>			
216	Core Drilling, 1" hole	Core Drilling, 1" hole	CDRL0001
	Bidder's Product Description: Core Drilling, 1" hole		
217	Core Drilling, 2" hole	Core Drilling, 2" hole	CDRL0002
	Bidder's Product Description: Core Drilling, 2" hole		
218	Core Drilling, 3" hole	Core Drilling, 3" hole	CDRL0003
	Bidder's Product Description: Core Drilling, 3" hole		
219	Core Drilling, 4" hole	Core Drilling, 4" hole	CDLR0004
	Bidder's Product Description: Core Drilling, 4" hole		
220	Wall penetration - drywall	Wall penetration - drywall	PNTW0000
	Bidder's Product Description: Wall penetration - drywall		

	Feature Name	Feature Description	Bidder's Product Identifier
221	Scissor Lift Rental (20') (Includes daily rate, pickup and delivery fees)	For contractor use in support of SRI services.	SCLR0000
	<b>Bidder's Product Description:</b> Scissor Lift Rental (20') (Includes daily rate, pickup and delivery fees)		
222	Fire Seal Penetration, 1" hole	Fire Seal Penetration, 1" hole	FSPN0001
	<b>Bidder's Product Description:</b> Fire Seal Penetration, 1" hole		
223	Fire Seal Penetration, 2" hole	Fire Seal Penetration, 2" hole	FSPN0002
	<b>Bidder's Product Description:</b> Fire Seal Penetration, 2" hole		
224	Fire Seal Penetration, 3" hole	Fire Seal Penetration, 3" hole	FSPN0003
	<b>Bidder's Product Description:</b> Fire Seal Penetration, 3" hole		
225	Fire Seal Penetration, 4" hole	Fire Seal Penetration, 4" hole	FSPN0004
	<b>Bidder's Product Description:</b> Fire Seal Penetration, 4" hole		
226	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)	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)	GRNE0001
	<b>Bidder's Product Description:</b> 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)		

	Feature Name	Feature Description	Bidder's Product Identifier
227	<b>Installation of equipment ground (Includes all material, terminations and labor for each applicable equipment and the installation # 6 ground wire .</b>	Installation of equipment ground (Includes all material, terminations and labor for each applicable equipment and the installation # 6 ground wire .	GRNE0002
	<b>Bidder's Product Description:</b> Installation of equipment ground (Includes all material, terminations and labor for each applicable equipment and the installation # 6 ground wire		
228	<b>Relocate existing telephone handset (same HC/TC on existing cabling) - includes cross-connect, testing, and documentation</b>	Relocate existing telephone handset (same HC/TC on existing cabling) - includes cross-connect, testing, and documentation	HNST0000
	<b>Bidder's Product Description:</b> Relocate existing telephone handset (same HC/TC on existing cabling) - includes cross-connect, testing, and documentation		
229	<b>Install new cross-connect</b>	Install new cross-connect	CONN0000
	<b>Bidder's Product Description:</b> Install new cross-connect		

Table 5.4.4.b Services Related Infrastructure Overtime Hours

	Feature Name	Feature Description	Bidder's Product Identifier
<b>Telco Room - MDF/IDF/MPOE</b>			
1	Install customer provided UPS	Install customer provided UPS	CPEU0001
	<b>Bidder's Product Description:</b> Install customer provided UPS		
2	Cable 48-port switch (patch cords)	Install patch cords in customer provided device. Total of 48 patch cords provided and installed.	PCHO0000
	<b>Bidder's Product Description:</b> Install patch cords in customer provided device. Total of 48 patch cords provided and installed.		
3	7' 2-post rack	Provide and install 7' 2-post rack	PSTO0002
	<b>Bidder's Product Description:</b> Provide and install 7' 2-post rack		
4	7' 4-post rack	Provide and install 7' 4-post rack	PSTO0004
	<b>Bidder's Product Description:</b> Provide and install 7' 4-post rack		
5	Install customer provided rack	Install customer provided rack	CPER0001
	<b>Bidder's Product Description:</b> Install customer provided rack		
6	Horizontal wire manager	Install and provide horizontal wire manager	HWMN0001
	<b>Bidder's Product Description:</b> Install and provide horizontal wire manager		
7	Vertical wire manager	Install and provide vertical wire manager	VWMN0001
	<b>Bidder's Product Description:</b> Install and provide vertical wire manager		
8	Install customer provided wire manager	Install and provide vertical wire manager	CPEW0001
	<b>Bidder's Product Description:</b> Install and provide vertical wire manager		

	Feature Name	Feature Description	Bidder's Product Identifier
9	Shelf (single sided 3U)	Provide and Install each shelf (single sided 3U)	SHLF0001
	<b>Bidder's Product Description:</b> Provide and Install each shelf (single sided 3U)		
10	Customer provided shelf	Install customer provided shelf	CPSH0001
	<b>Bidder's Product Description:</b> Install customer provided shelf		
11	Hinged Wall Bracket	Provide and install Hinged Wall Bracket	HWBR0001
	<b>Bidder's Product Description:</b> Provide and install Hinged Wall Bracket		
12	4' x 4' x 3/4" painted plywood backboard	Provide and install 4' x 4' x 3/4" painted plywood backboard – fire rated	PLBD0001
	<b>Bidder's Product Description:</b> Provide and install 4' x 4' x 3/4" painted plywood backboard – fire rated		
13	Power strip (4 outlets)	Provide and Install each power strip (4 outlets). Standard plug in power strip.	PWRO0004
	<b>Bidder's Product Description:</b> Provide and Install each power strip (4 outlets). Standard plug in power strip.		
14	10' of 12" ladder rack and support hardware	Provide and install up to 10' of 12" ladder rack and support hardware.	LDRO0000
	<b>Bidder's Product Description:</b> Provide and install up to 10' of 12" ladder rack and support hardware.		
15	Communication pole 10 feet	Provide and install Communication pole 10 feet. Matches existing modular furniture manufacturer if available.	CPOV0010
	<b>Bidder's Product Description:</b> Provide and install Communication pole 10 feet. Matches existing modular furniture manufacturer if available.		

	Feature Name	Feature Description	Bidder's Product Identifier
16	<b>One (1) 20 Amp Duplex Outlet within 75' of Existing Panel</b>	Provide and install one (1) 20 Amp Duplex Outlet within 75' of Existing Panel. Not to exceed price. IPR available for reduced rates.	ADOT0000
	<b>Bidder's Product Description:</b> Provide and install one (1) 20 Amp Duplex Outlet within 75' of Existing Panel. Not to exceed price. IPR available for reduced rates.		
<b>Backbone Cabling Placing and Consumables</b>			
17	<b>6-strand MM ISP fiber</b>	Provide and install 6-strand MM ISP fiber. 50 μ or 62.5 μ fiber plenum	BBCP0001
	<b>Bidder's Product Description:</b> Provide and install 6-strand MM ISP fiber. 50 μ or 62.5 μ fiber plenum		
18	<b>6-strand SM ISP fiber</b>	Provide and install 6-strand SM ISP fiber. 8.3 μ fiber plenum	BBCP0002
	<b>Bidder's Product Description:</b> Provide and install 6-strand SM ISP fiber. 8.3 μ fiber plenum		
19	<b>12-strand MM ISP fiber</b>	Provide and install 12-strand MM ISP fiber. 50 μ or 62.5 μ fiber plenum	BBCP0003
	<b>Bidder's Product Description:</b> Provide and install 12-strand MM ISP fiber. 50 μ or 62.5 μ fiber plenum		
20	<b>12-strand SM ISP fiber</b>	Provide and install 12-strand SM ISP fiber. 8.3 μ fiber plenum	BBCP0004
	<b>Bidder's Product Description:</b> Provide and install 12-strand SM ISP fiber. 8.3 μ fiber plenum		
21	<b>6-strand MM Indoor/Outdoor Fiber</b>	Provide and install 6-strand MM Indoor/Outdoor fiber	BBCP0005
	<b>Bidder's Product Description:</b> Provide and install 6-strand MM Indoor/Outdoor fiber		
22	<b>6-strand SM Indoor/Outdoor Fiber</b>	Provide and install 6-strand SM Indoor/Outdoor fiber	BBCP0006
	<b>Bidder's Product Description:</b> Provide and install 6-strand SM Indoor/Outdoor fiber		

	Feature Name	Feature Description	Bidder's Product Identifier
23	12-strand MM Indoor/Outdoor Fiber	Provide and install 12-strand MM Indoor/Outdoor fiber.	BBCP0007
	<b>Bidder's Product Description:</b> Provide and install 12-strand MM Indoor/Outdoor fiber		
24	12-strand SM Indoor/Outdoor Fiber	Provide and install 12-strand SM Indoor/Outdoor fiber.	BBCP0008
	<b>Bidder's Product Description:</b> Provide and install 12-strand SM Indoor/Outdoor fiber.		
25	24-strand SM OSP underground fiber	Provide and install 24-strand SM OSP underground fiber.	BBCP0009
	<b>Bidder's Product Description:</b> Provide and install 24-strand SM OSP underground fiber.		
26	48-strand SM OSP underground fiber	Provide and install 48-strand SM OSP underground fiber.	BBCP0010
	<b>Bidder's Product Description:</b> Provide and install 48-strand SM OSP underground fiber.		
27	24-strand SM Indoor/Outdoor Fiber	Provide and install 24-strand SM Indoor/Outdoor fiber.	BBCP0011
	<b>Bidder's Product Description:</b> Provide and install 24-strand SM Indoor/Outdoor fiber		
28	48-strand SM Indoor/Outdoor Fiber	Provide and install 48-strand SM Indoor/Outdoor fiber.	BBCP0012
	<b>Bidder's Product Description:</b> Provide and install 48-strand SM Indoor/Outdoor fiber.		
29	1" innerduct underground in existing duct	Provide and install 1" innerduct underground in existing duct. Override situations will be accessed by contractor for viability.	BBCP0013
	<b>Bidder's Product Description:</b> Provide and install 1" innerduct underground in existing duct. Override situations will be accessed by contractor for viability.		
30	1 1/4" innerduct underground in existing duct	Provide and install 1 1/4" innerduct underground in existing duct. Override situations will be accessed by contractor for viability	BBCP0014

	Feature Name	Feature Description	Bidder's Product Identifier
	<b>Bidder's Product Description:</b> Provide and install 1 1/4" innerduct underground in existing duct. Override situations will be accessed by contractor for viability		
31	<b>25-pair copper ISP</b>	Provide and install 25-pair copper ISP. Plenum.	BBCP0015
	<b>Bidder's Product Description:</b> Provide and install 25-pair copper ISP. Plenum.		
32	<b>25-pair copper underground OSP</b>	Provide and install 25-pair copper underground OSP.	BBCP0016
	<b>Bidder's Product Description:</b> Provide and install 25-pair copper underground OSP.		
33	<b>50-pair copper ISP</b>	Provide and install 50-pair copper ISP. Plenum.	BBCP0017
	<b>Bidder's Product Description:</b> Provide and install 50-pair copper ISP. Plenum		
34	<b>50-pair copper underground OSP</b>	Provide and install 50-pair copper underground OSP.	BBCP0018
	<b>Bidder's Product Description:</b> Provide and install 50-pair copper underground OSP.		
35	<b>100-pair copper ISP</b>	Provide and install 100-pair copper ISP. Plenum.	BBCP0019
	<b>Bidder's Product Description:</b> Provide and install 100-pair copper ISP. Plenum.		
36	<b>100-pair copper underground OSP</b>	Provide and install 100-pair copper underground OSP.	BBCP0020
	<b>Bidder's Product Description:</b> Provide and install 100-pair copper underground OSP.		
<b>Backbone and Circuit Extension Cable Placing and Consumables</b>			
37	<b>300' Cat 6 copper ISP circuit extension</b>	Provide and install up to 300' Cat 6 copper ISP circuit extension. Plenum	BCET0001
	<b>Bidder's Product Description:</b> Provide and install up to 300' Cat 6 copper ISP circuit extension. Plenum		
38	<b>300' Cat 6 copper OSP circuit extension</b>	Provide and install up to 300' Cat 6 copper OSP circuit extension.	BCET0002
	<b>Bidder's Product Description:</b> Provide and install up to 300' Cat 6 copper OSP circuit extension.		

	Feature Name	Feature Description	Bidder's Product Identifier
39	300' 25-pair copper ISP circuit extension	Provide and install up to 300' 25-pair copper ISP circuit extension. Plenum.	BCET0003
	<b>Bidder's Product Description:</b> Provide and install up to 300' 25-pair copper ISP circuit extension. Plenum		
40	300' 25-pair copper OSP circuit extension	Provide and install up to 300' 25-pair copper OSP circuit extension.	BCET0004
	<b>Bidder's Product Description:</b> Provide and install up to 300' 25-pair copper OSP circuit extension.		
41	300' RG58 COAX ISP	Provide and install up to 300' RG58 COAX ISP. Plenum.	BCET0005
	<b>Bidder's Product Description:</b> Provide and install up to 300' RG58 COAX ISP. Plenum.		
42	300' RG62 COAX ISP	Provide and install up to 300' RG62 COAX ISP. Plenum.	BCET0006
	<b>Bidder's Product Description:</b> Provide and install up to 300' RG62 COAX ISP. Plenum.		
43	300' RG6 COAX ISP	Provide and install up to 300' RG6 COAX ISP. Plenum.	BCET0007
	<b>Bidder's Product Description:</b> Provide and install up to 300' RG6 COAX ISP. Plenum.		
<b>Backbone and Circuit Extension - Termination Hardware</b>			
44	25-pair protector	Provide and install 25-pair protector. Gas modules or match existing.	BCOH0001
	<b>Bidder's Product Description:</b> Provide and install 25-pair protector. Gas modules or match existing.		
45	50-pair protector	Provide and install 50-pair protector. Gas modules or match existing.	BCOH0002
	<b>Bidder's Product Description:</b> Provide and install 50-pair protector. Gas modules or match existing.		

	Feature Name	Feature Description	Bidder's Product Identifier
46	100-pair protector	Provide and install 100-pair protector. Gas modules or match existing.	BCOH0003
	<b>Bidder's Product Description:</b> Provide and install 100-pair protector. Gas modules or match existing.		
47	4-pair protector	Provide and install 4-pair protector. Gas modules or match existing.	BCOH0004
	<b>Bidder's Product Description:</b> Provide and install 4-pair protector. Gas modules or match existing.		
48	Protector modules	Provide and install protector modules. Gas modules or match existing.	BCOH0005
	<b>Bidder's Product Description:</b> Provide and install 4-pair protector. Gas modules or match existing.		
49	BIX mount 250-pair	Provide and install BIX mount 250-pair.	BCOH0006
	<b>Bidder's Product Description:</b> Provide and install 4-pair protector. Gas modules or match existing.		
50	BIX connector	Provide and install BIX connector.	BCOH0007
	<b>Bidder's Product Description:</b> Provide and install BIX connector.		
51	BIX ring	Provide and install BIX ring.	BCOH0008
	<b>Bidder's Product Description:</b> Provide and install 66-type Block 50 pair.		
52	66-type Block 50 pair	Provide and install 66-type Block 50 pair.	BCOH0009
	<b>Bidder's Product Description:</b> Provide and install 66-type Block 50 pair.		
53	110-style block 100 pair kit	Provide and install 110-style block 100 pair kit. Includes C4 or C5 clips.	BCOH0010

	Feature Name	Feature Description	Bidder's Product Identifier
	<b>Bidder's Product Description:</b> Provide and install 110-style block 100 pair kit. Includes C4 or C5 clips		
54	<b>Rack Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber</b>	Provide and install Rack Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber. Cabinet only. Panels purchased separately.	BCOH0011
	<b>Bidder's Product Description:</b> Provide and install Rack Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber. Cabinet only. Panels purchased separately.		
55	<b>Rack Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber</b>	Provide and install Rack Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber. Cabinet only. Panels purchased separately.	BCOH0012
	<b>Bidder's Product Description:</b> Provide and install Rack Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber. Cabinet only. Panels purchased separately.		
56	<b>Wall Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber</b>	Provide and install Wall Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber. Cabinet only. Panels purchased separately.	BCOH0013
	<b>Bidder's Product Description:</b> Provide and install Wall Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber. Cabinet only. Panels purchased separately.		
57	<b>Wall Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber</b>	Provide and install Wall Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber. Cabinet only. Panels purchased separately.	BCOH0014
	<b>Bidder's Product Description:</b> Provide and install Wall Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber. Cabinet only. Panels purchased separately.		
58	<b>6-strand connector panel MM 50/125 SC</b>	Provide and Install 6-strand connector panel MM 50/125 SC. Complete with couplers.	BCOH0015
	<b>Bidder's Product Description:</b> Provide and Install 6-strand connector panel MM 50/125 SC. Complete with couplers.		
59	<b>6-strand connector panel MM 50/125 LC</b>	Provide and install 6-strand connector panel MM 50/125 LC. Complete with couplers.	BCOH0016

	Feature Name	Feature Description	Bidder's Product Identifier
	<b>Bidder's Product Description:</b> Provide and install 6-strand connector panel MM 50/125 LC. Complete with couplers.		
60	<b>6-strand connector panel MM 62.5/125 SC</b>	Provide and install 6-strand connector panel MM 62.5/125 SC. Complete with couplers.	BCOH0017
	<b>Bidder's Product Description:</b> Provide and install 6-strand connector panel MM 50/125 LC. Complete with couplers.		
61	<b>6-strand connector panel MM 62.5/125 LC</b>	Provide and install 6-strand connector panel MM 62.5/125 LC. Complete with couplers.	BCOH0018
	<b>Bidder's Product Description:</b> Provide and install 6-strand connector panel MM 62.5/125 LC. Complete with couplers		
62	<b>12-strand connector panel MM 50/125 SC</b>	Provide and install 12-strand connector panel MM 50/125 SC. Complete with couplers.	BCOH0019
	<b>Bidder's Product Description:</b> Provide and install 12-strand connector panel MM 50/125 SC. Complete with couplers.		
63	<b>12-strand connector panel MM 50/125 LC</b>	Provide and install 12-strand connector panel MM 50/125 LC. Complete with couplers.	BCOH0020
	<b>Bidder's Product Description:</b> Provide and install 12-strand connector panel MM 50/125 LC. Complete with couplers.		
64	<b>12-strand connector panel MM 62.5/125 SC</b>	Provide and install 12-strand connector panel MM 62.5/125 SC. Complete with couplers.	BCOH0021
	<b>Bidder's Product Description:</b> Provide and install 12-strand connector panel MM 62.5/125 SC. Complete with couplers.		
65	<b>12-strand connector panel MM 62.5/125 LC</b>	Provide and install 12-strand connector panel MM 62.5/125 LC, Complete with couplers.	BCOH0022
	<b>Bidder's Product Description:</b> Provide and install 12-strand connector panel MM 62.5/125 LC, Complete with couplers.		

	Feature Name	Feature Description	Bidder's Product Identifier
66	<b>6-strand connector panel SM SC</b>	Provide and install 6-strand connector panel SM SC. Complete with couplers.	BCOH0023
	<b>Bidder's Product Description:</b> Provide and install 6-strand connector panel SM LC. Complete with couplers.		
67	<b>6-strand connector panel SM LC</b>	Provide and install 6-strand connector panel SM LC. Complete with couplers.	BCOH0024
	<b>Bidder's Product Description:</b> Provide and install 6-strand connector panel SM LC. Complete with couplers.		
68	<b>12-strand connector panel SM SC</b>	Provide and install 12-strand connector panel SM SC. Complete with couplers.	BCOH0025
	<b>Bidder's Product Description:</b> Provide and install 12-strand connector panel SM SC. Complete with couplers.		
69	<b>12-strand connector panel SM LC</b>	Provide and install 12-strand connector panel SM LC. Complete with couplers.	BCOH0026
	<b>Bidder's Product Description:</b> Provide and install 12-strand connector panel SM LC. Complete with couplers		
70	<b>Provide SC Compatible 50µm Multimode connector (material only)</b>	Must be ordered with Product Identifiers BCTM0005 or BCTM0006 and BCTM0007	BCOH0027
	<b>Bidder's Product Description:</b> Provide SC Compatible 50µm Multimode connector (material only) Provide SC Compatible 50µm Multimode connector (material only). Provide SC Compatible 50µm Multimode connector (material only)		
71	<b>Provide SC Compatible 62.5µm Multimode connector (material only)</b>	Must be ordered with Product Identifiers BCTM0005 or BCTM0006 and BCTM0007	BCOH0028
	<b>Bidder's Product Description:</b> Provide SC Compatible 50µm Multimode connector (material only). Must be ordered with Product Identifiers BCTM0005 or BCTM0006 and BCTM0007		

	Feature Name	Feature Description	Bidder's Product Identifier
72	<b>Provide SC Compatible Single Mode connector (material only)</b>	Must be ordered with Product Identifiers BCTM0005 or BCTM0006 and BCTM0007	BCOH0029
	<b>Bidder's Product Description:</b> Provide SC Compatible Single Mode connector (material only). Must be ordered with Product Identifiers BCTM0005 or BCTM0006 and BCTM0007		
73	<b>Provide LC Compatible 50µm Multimode connector (material only)</b>	Must be ordered with Product Identifiers BCTM0005 or BCTM0006 and BCTM0007	BCOH0030
	<b>Bidder's Product Description:</b> Provide LC Compatible 50µm Multimode connector (material only). Must be ordered with Product Identifiers BCTM0005 or BCTM0006 and BCTM0007		
74	<b>Provide LC Compatible 62.5µm Multimode connector (material only)</b>	Must be ordered with Product Identifiers BCTM0005 or BCTM0006 and BCTM0007	BCOH0031
	<b>Bidder's Product Description:</b> Provide LC Compatible 62.5µm Multimode connector (material only). Must be ordered with Product Identifiers BCTM0005 or BCTM0006 and BCTM0007		
75	<b>Provide LC Compatible Single Mode connector (material only)</b>	Must be ordered with Product Identifiers BCTM0005 or BCTM0006 and BCTM0007	BCOH0032
	<b>Bidder's Product Description:</b> Provide LC Compatible Single Mode connector (material only). Must be ordered with Product Identifiers BCTM0005 or BCTM0006 and BCTM0007		
76	<b>Multimode 62.5/125 SC To SC 1 Meter Patch Cable</b>	Provide and install Multimode 62.5/125 SC To SC 1 Meter Patch Cable.	BCOH0033
	<b>Bidder's Product Description:</b> Provide and install Multimode 62.5/125 SC To SC 1 Meter Patch Cable		
77	<b>Multimode 62.5/125 SC To SC 3 Meter Patch Cable</b>	Provide and install Multimode 62.5/125 SC To SC 3 Meter Patch Cable.	BCOH0034

	Feature Name	Feature Description	Bidder's Product Identifier
	<b>Bidder's Product Description:</b> Provide and install Multimode 62.5/125 SC To SC 3 Meter Patch Cable.		
78	<b>Multimode 62.5/125 SC To SC 10 Meter Patch Cable</b>	Provide and Install Multimode 62.5/125 SC To SC 10 Meter Patch Cable.	BCOH0035
	<b>Bidder's Product Description:</b> Provide and Install Multimode 62.5/125 SC To SC 10 Meter Patch Cable		
79	<b>Multimode 62.5/125 SC To LC 1 Meter Patch Cable</b>	Provide and install Multimode 62.5/125 SC To LC 1 Meter Patch Cable.	BCOH0036
	<b>Bidder's Product Description:</b> Provide and install Multimode 62.5/125 SC To LC 1 Meter Patch Cable.		
80	<b>Multimode 62.5/125 SC To LC 3 Meter Patch Cable</b>	Provide and install Multimode 62.5/125 SC To LC 3 Meter Patch Cable.	BCOH0037
	<b>Bidder's Product Description:</b> Provide and install Multimode 62.5/125 SC To LC 3 Meter Patch Cable.		
81	<b>Multimode 62.5/125 SC To LC 10 Meter Patch Cable</b>	Provide and install Multimode 62.5/125 SC To LC 10 Meter Patch Cable.	BCOH0038
	<b>Bidder's Product Description:</b> Provide and install Multimode 62.5/125 SC To LC 3 Meter Patch Cable.		
82	<b>Multimode 62.5/125 LC To LC 1 Meter Patch Cable</b>	Provide and install Multimode 62.5/125 LC To LC 1 Meter Patch Cable.	BCOH0039
	<b>Bidder's Product Description:</b> Provide and install Multimode 62.5/125 LC To LC 1 Meter Patch Cable.		
83	<b>Multimode 62.5/125 LC To LC 3 Meter Patch Cable</b>	Provide and install Multimode 62.5/125 LC To LC 3 Meter Patch Cable.	BCOH0040
	<b>Bidder's Product Description:</b> Provide and install Multimode 62.5/125 LC To LC 3 Meter Patch Cable.		

	Feature Name	Feature Description	Bidder's Product Identifier
84	<b>Multimode 62.5/125 LC To LC 10 Meter Patch Cable</b>	Provide and install Multimode 62.5/125 LC To LC 10 Meter Patch Cable.	BCOH0041
	<b>Bidder's Product Description:</b> Provide and install Multimode 62.5/125 LC To LC 10 Meter Patch Cable.		
85	<b>Multimode 50/125 SC To SC 1 Meter Patch Cable</b>	Provide and install Multimode 50/125 SC To SC 1 Meter Patch Cable.	BCOH0042
	<b>Bidder's Product Description:</b> Provide and install Multimode 62.5/125 LC To LC 10 Meter Patch Cable.		
86	<b>Multimode 50/125 SC To SC 3 Meter Patch Cable</b>	Provide and install Multimode 50/125 SC To SC 3 Meter Patch Cable.	BCOH0043
	<b>Bidder's Product Description:</b> Provide and install Multimode 50/125 SC To SC 3 Meter Patch Cable.		
87	<b>Multimode 50/125 SC To SC 10 Meter Patch Cable</b>	Provide and install Multimode 50/125 SC To SC 10 Meter Patch Cable.	BCOH0044
	<b>Bidder's Product Description:</b> Provide and install Multimode 50/125 SC To SC 10 Meter Patch Cable		
88	<b>Multimode 50/125 SC To LC 1 Meter Patch Cable</b>	Provide and install Multimode 50/125 SC To LC 1 Meter Patch Cable.	BCOH0045
	<b>Bidder's Product Description:</b> Provide and install Multimode 50/125 SC To SC 10 Meter Patch Cable		
89	<b>Multimode 50/125 SC To LC 3 Meter Patch Cable</b>	Provide and install Multimode 50/125 SC To LC 3 Meter Patch Cable.	BCOH0046
	<b>Bidder's Product Description:</b> Provide and install Multimode 50/125 SC To LC 3 Meter Patch Cable.		
90	<b>Multimode 50/125 SC To LC 10 Meter Patch Cable</b>	Provide and install Multimode 50/125 SC To LC 10 Meter Patch Cable.	BCOH0047

	Feature Name	Feature Description	Bidder's Product Identifier
	<b>Bidder's Product Description:</b> Provide and install Multimode 50/125 SC To LC 10 Meter Patch Cable.		
91	<b>Multimode 50/125 LC To LC 1 Meter Patch Cable</b>	Provide and install Multimode 50/125 LC To LC 1 Meter Patch Cable.	BCOH0048
	<b>Bidder's Product Description:</b> Provide and install Multimode 50/125 SC To LC 10 Meter Patch Cable.		
92	<b>Multimode 50/125 LC To LC 3 Meter Patch Cable</b>	Provide and install Multimode 50/125 LC To LC 3 Meter Patch Cable.	BCOH0049
	<b>Bidder's Product Description:</b> Provide and install Multimode 50/125 LC To LC 3 Meter Patch Cable.		
93	<b>Multimode 50/125 LC To LC 10 Meter Patch Cable</b>	Provide and install Multimode 50/125 LC To LC 10 Meter Patch Cable.	BCOH0050
	<b>Bidder's Product Description:</b> Provide and install Multimode 50/125 LC To LC 10 Meter Patch Cable.		
94	<b>Single Mode 9/125 SC To SC 1 Meter Patch Cable</b>	Provide and install Single Mode 9/125 SC To SC 1 Meter Patch Cable.	BCOH0051
	<b>Bidder's Product Description:</b> Provide and install Single Mode 9/125 SC To SC 1 Meter Patch Cable.		
95	<b>Single Mode 9/125 SC To SC 3 Meter Patch Cable</b>	Provide and install Single Mode 9/125 SC To SC 3 Meter Patch Cable.	BCOH0052
	<b>Bidder's Product Description:</b> Provide and install Single Mode 9/125 SC To SC 3 Meter Patch Cable.		
96	<b>Single Mode 9/125 SC To SC 10 Meter Patch Cable</b>	Provide and install Single Mode 9/125 SC To SC 10 Meter Patch Cable.	BCOH0053
	<b>Bidder's Product Description:</b> Provide and install Single Mode 9/125 SC To SC 10 Meter Patch Cable.		

	Feature Name	Feature Description	Bidder's Product Identifier
97	<b>Single Mode 9/125 SC To LC 1 Meter Patch Cable</b>	Provide and install Single Mode 9/125 SC To LC 1 Meter Patch Cable.	BCOH0054
	<b>Bidder's Product Description:</b> Provide and install Single Mode 9/125 SC To LC 1 Meter Patch Cable.		
98	<b>Single Mode 9/125 SC To LC 3 Meter Patch Cable</b>	Provide and install Single Mode 9/125 SC To LC 3 Meter Patch Cable.	BCOH0055
	<b>Bidder's Product Description:</b> Provide and install Single Mode 9/125 SC To LC 3 Meter Patch Cable.		
99	<b>Single Mode 9/125 SC To LC 10 Meter Patch Cable</b>	Provide and install Single Mode 9/125 SC To LC 10 Meter Patch Cable.	BCOH0056
	<b>Bidder's Product Description:</b> Provide and install Single Mode 9/125 SC To LC 10 Meter Patch Cable.		
100	<b>Single Mode 9/125 LC To LC 1 Meter Patch Cable</b>	Provide and install Single Mode 9/125 LC To LC 1 Meter Patch Cable.	BCOH0057
	<b>Bidder's Product Description:</b> Provide and install Single Mode 9/125 LC To LC 1 Meter Patch Cable		
101	<b>Single Mode 9/125 LC To LC 3 Meter Patch Cable</b>	Provide and install Single Mode 9/125 LC To LC 3 Meter Patch Cable.	BCOH0058
	<b>Bidder's Product Description:</b> Provide and install Single Mode 9/125 LC To LC 3 Meter Patch Cable.		
102	<b>Single Mode 9/125 LC To LC 10 Meter Patch Cable</b>	Provide and install Single Mode 9/125 LC To LC 10 Meter Patch Cable.	BCOH0059
	<b>Bidder's Product Description:</b> Provide and install Single Mode 9/125 LC To LC 10 Meter Patch Cable.		
<b>Backbone and Circuit Extension Termination and/or Testing</b>			

	Feature Name	Feature Description	Bidder's Product Identifier
103	Copper cable termination per pair (25 pair and larger)	Labor and consumables to terminate and test media.	BCTM0001
	<b>Bidder's Product Description:</b> Provide and install Single Mode 9/125 LC To LC 1 Meter Patch Cable. Labor and consumables to terminate and test media.		
104	Copper cable splicing per pair (25 pair and larger)	Labor and consumables to terminate and test media.	BCTM0002
	<b>Bidder's Product Description:</b> Copper cable splicing per pair (25 pair and larger). Labor and consumables to terminate and test media.		
105	Copper cable testing per pair (25 pair and larger)	Labor to perform continuity test.	BCTM0003
	<b>Bidder's Product Description:</b> Copper cable testing per pair (25 pair and larger). Labor to perform continuity test		
106	Tone, locate, test, document Circuit	Test and Tone on both sides of a single circuit, copper pair, between termination points.	BCTM0004
	<b>Bidder's Product Description:</b> Test and Tone on both sides of a single circuit, copper pair, between termination points.		
107	Install Fiber termination connector	Labor only.	BCTM0005
	<b>Bidder's Product Description:</b> Install Fiber termination connector. Labor only		
108	Splice Fiber per strand	Labor only. SM or MM.	BCTM0006
	<b>Bidder's Product Description:</b> Splice Fiber per strand. Labor only. SM or MM		
109	Fiber testing per strand	OTDR.	BCTM0007
	<b>Bidder's Product Description:</b> Fiber testing per strand. OTDR.		
110	Provide 4-pair CAT5e termination and testing	Labor only. Includes BICSI standard testing (end to end).	BCTM0008

	Feature Name	Feature Description	Bidder's Product Identifier
	<b>Bidder's Product Description:</b> Provide 4-pair CAT5e termination and testing. Labor only. Includes BICSI standard testing (end to end).		
111	<b>Terminate and test 4-pair Cat 6</b>	Labor only. Includes BICSI standard testing (end to end).	BCTM0009
	<b>Bidder's Product Description:</b> Terminate and test 4-pair Cat 6. Labor only. Includes BICSI standard testing (end to end).		
112	<b>Terminate 4-pair Cat 6</b>	Retermine one end only jack or patch panel.	BCTM0010
	<b>Bidder's Product Description:</b> Labor only. Includes BICSI standard testing (end to end). Retermine one end only jack or patch panel		
113	<b>Test 4-pair Cat 6</b>	Test only Includes BICSI standard testing (end to end)..	BCTM0011
	<b>Bidder's Product Description:</b> Test 4-pair Cat 6. Test only Includes BICSI standard testing (end to end)..		
114	<b>Terminate and test 4-pair Cat 6A</b>	Labor only. Includes BICSI standard testing (end to end)..	BCTM0012
	<b>Bidder's Product Description:</b> Terminate and test 4-pair Cat 6A. Labor only. Includes BICSI standard testing (end to end).		
115	<b>Terminate 4-pair Cat 6A</b>	Retermine one end only jack or patch panel..	BCTM0013
	<b>Bidder's Product Description:</b> Terminate 4-pair Cat 6A. Retermine one end only jack or patch panel.		
116	<b>Test 4-pair Cat 6A</b>	Test only Includes BICSI standard testing (end to end).	BCTM0014
	<b>Bidder's Product Description:</b> Test 4-pair Cat 6A. Test only Includes BICSI standard testing (end to end).		
<b>Station Cabling, Cable Placement and Consumables Only - pull line in place</b>			

	Feature Name	Feature Description	Bidder's Product Identifier
117	<b>Single 4-pair Cat 6 PVC cable for voice or data application</b>	Provide and Install single 4-pair Cat 6 PVC cable for voice or data application.	SCCO0001
	<b>Bidder's Product Description:</b> Provide and Install single 4-pair Cat 6 PVC cable for voice or data application.		
118	<b>Single 4-pair Cat 6 plenum cable for voice or data application</b>	Provide and Install single 4-pair Cat 6 plenum cable for voice or data application.	SCCO0002
	<b>Bidder's Product Description:</b> Provide and Install single 4-pair Cat 6 plenum cable for voice or data application.		
119	<b>Single 4-pair Cat 6 OSP cable for voice or data application</b>	Provide and Install single 4-pair Cat 6 OSP cable for voice or data application..	SCCO0003
	<b>Bidder's Product Description:</b> Provide and Install single 4-pair Cat 6A PVC cable for voice or data application.		
120	<b>Single 4-pair Cat 6A PVC cable for voice or data application</b>	Provide and Install single 4-pair Cat 6A PVC cable for voice or data application.	SCCO0004
	<b>Bidder's Product Description:</b> Provide and Install single 4-pair Cat 6A PVC cable for voice or data application.		
121	Single 4-pair Cat 6A plenum cable for voice or data application	Provide and Install single 4-pair Cat 6A plenum cable for voice or data application.	SCCO0005
	<b>Bidder's Product Description:</b> Provide and Install single 4-pair Cat 6A plenum cable for voice or data application.		
122	Single 4-pair Cat 6A OSP cable for voice or data application	Provide and install single 4-pair Cat 6A OSP cable for voice or data application..	SCCO0006
	<b>Bidder's Product Description:</b> Provide and install single 4-pair Cat 6A OSP cable for voice or data application..		
<b>Additional Components (Material and Labor to install)</b>			

	Feature Name	Feature Description	Bidder's Product Identifier
123	One 24-port unloaded Cat 6A Patch Panel	Provide and install one 24-port unloaded Cat 6A Patch Panel	SCMO0001
	<b>Bidder's Product Description:</b> Provide and install one 24-port unloaded Cat 6A Patch Panel		
124	One 48-port unloaded Cat 6A Patch Panel	Provide and install one 48-port unloaded Cat 6A Patch Panel	SCMO0002
	<b>Bidder's Product Description:</b> Provide and install one 48-port unloaded Cat 6A Patch Panel		
125	New 24-port Cat 6 patch panel	Provide and install new 24-port Cat 6 patch panel	SCMO0003
	<b>Bidder's Product Description:</b> Provide and install new 24-port Cat 6 patch panel		
126	New 48-port Cat 6 patch panel	Provide and install new 48-port Cat 6 patch panel	SCMO0004
	<b>Bidder's Product Description:</b> Provide and install new 48-port Cat 6 patch panel		
127	New 24-port Cat 6A patch panel	Provide and install new 24-port Cat 6A patch panel	SCMO0005
	<b>Bidder's Product Description:</b> Provide and install new 24-port Cat 6A patch panel		
128	New 48-port Cat 6A patch panel	Provide and install new 48-port Cat 6A patch panel	SCMO0006
	<b>Bidder's Product Description:</b> Provide and install new 48-port Cat 6A patch panel		
129	New 12-port Cat 6 patch panel	Provide and install new 12-port Cat 6 patch panel	SCMO0007
	<b>Bidder's Product Description:</b> Provide and install new 12-port Cat 6 patch panel		
130	Face plate plastic	Provide and install face plate plastic	SCMO0008
	<b>Bidder's Product Description:</b> Provide and install new 12-port Cat 6 patch panel		
131	Modular furniture device plate	Provide and install modular furniture device plate	SCMO0009
	<b>Bidder's Product Description:</b> Provide and install new 12-port Cat 6 patch panel		

	Feature Name	Feature Description	Bidder's Product Identifier
132	4-port stainless steel faceplate	Provide and install 4-port stainless steel faceplate	SCMO0010
	Bidder's Product Description: Provide and install 4-port stainless steel faceplate		
133	6-port stainless steel faceplate	Provide and install 6-port stainless steel faceplate	SCMO0011
	Bidder's Product Description: Provide and install 6-port stainless steel faceplate		
134	Cat 6 jack insert	Provide and install Cat 6 jack insert	SCMO0012
	Bidder's Product Description: Provide and install Cat 6 jack insert		
135	Cat 6A jack insert	Provide and install Cat 6A jack insert	SCMO0013
	Bidder's Product Description: Provide and install Cat 6A jack insert		
136	3' Cat 5e patch cord	Provide and install 3' Cat 5e patch cord	SCMO0014
	Bidder's Product Description: Provide and install 3' Cat 5e patch cord		
137	5' Cat 5e patch cord	Provide and install 5' Cat 5e patch cord	SCMO0015
	Bidder's Product Description: Provide and install 5' Cat 5e patch cord		
138	7' Cat 5e patch cord	Provide and install 7' Cat 5e patch cord	SCMO0016
	Bidder's Product Description: Provide and install 7' Cat 5e patch cord		
139	10' Cat 5e patch cord	Provide and install 10' Cat 5e patch cord	SCMO0017
	Bidder's Product Description: Provide and install 10' Cat 5e patch cord		
140	3' Cat 6 patch cord	Provide and install 3' Cat 6 patch cord	SCMO0018
	Bidder's Product Description: Provide and install 3' Cat 6 patch cord		
141	5' Cat 6 patch cord	Provide and install 5' Cat 6 patch cord	SCMO0019
	Bidder's Product Description: Provide and install 5' Cat 6 patch cord		

	Feature Name	Feature Description	Bidder's Product Identifier
142	7' Cat 6 patch cord	Provide and install 7' Cat 6 patch cord	SCMO0020
	Bidder's Product Description: Provide and install 7' Cat 6 patch cord		
143	10' Cat 6 patch cord	Provide and install 10' Cat 6 patch cord	SCMO0021
	Bidder's Product Description: Provide and install 10' Cat 6 patch cord		
144	Velcro Ties (roll 25 yards)	Provide and install Velcro Ties (roll 25 yards)	SCMO0022
	Bidder's Product Description: Provide and install Velcro Ties (roll 25 yards)		
145	Fiber splice closure	Provide and install Fiber splice closure. OSP rated	SCMO0023
	Bidder's Product Description: Provide and install Fiber splice closure. OSP rated		
146	Fiber splice tray	Provide and install Fiber splice tray	SCMO0024
	Bidder's Product Description: Provide and install Fiber splice tray		
147	Copper splice case 4.0x25	Provide and install Copper splice case 4.0x25. OSP rated	SCMO0025
	Bidder's Product Description: Provide and install Copper splice case 4.0x25. OSP rated		
148	Copper splice case 6.5x28	Provide and install Copper splice case 6.5x28. OSP rate	SCMO0026
	Bidder's Product Description: Provide and install Copper splice case 6.5x28. OSP rate		
149	Provide Copper splice module 25 pair (material only)	Provide Copper splice module 25 pair (material only)	SCMO0027
	Bidder's Product Description: Provide Copper splice module 25 pair (material only)		
<b>Pathway</b>			
150	Rod & rope conduit	Pull string or rope provided, rope will be sized appropriately to conduit size	PTOH0001
	Bidder's Product Description: Pull string or rope provided, rope will be sized appropriately to conduit size		

	Feature Name	Feature Description	Bidder's Product Identifier
151	Rod, rope and place up to 3 1" innerducts in same conduit		PTOH0002
	<b>Bidder's Product Description:</b> Rod, rope and place up to 3 1" innerducts in same conduit		
152	One stick (10') of 1" EMT & Three (3) 2-hole straps	Provide and install one stick (10') of 1" EMT & Three (3) 2-hole straps	PTOH0003
	<b>Bidder's Product Description:</b> Provide and install one stick (10') of 1" EMT & Three (3) 2-hole straps		
153	One stick (10') of 1 1/4" EMT & three (3) 2-hole straps	Provide and install one stick (10') of 1 1/4" EMT & three (3) 2-hole straps	PTOH0004
	<b>Bidder's Product Description:</b> Provide and install one stick (10') of 1 1/4" EMT & three (3) 2-hole straps		
154	One stick (10') of 2" EMT & three (3) 2-hole straps	Provide and install one stick (10') of 2" EMT & three (3) 2-hole straps	PTOH0005
	<b>Bidder's Product Description:</b> Provide and install one stick (10') of 2" EMT & three (3) 2-hole straps		
155	One stick (10') of 1" Rigid & three (3) 2-hole straps	Provide and install one stick (10') of 1" Rigid & three (3) 2-hole straps	PTOH0006
	<b>Bidder's Product Description:</b> Provide and install one stick (10') of 1" Rigid & three (3) 2-hole straps		
156	One stick (10') of 1 1/4" Rigid & three (3) 2-hole straps	Provide and install one stick (10') of 1 1/4" Rigid & three (3) 2-hole straps	PTOH0007
	<b>Bidder's Product Description:</b> Provide and install one stick (10') of 1 1/4" Rigid & three (3) 2-hole straps		
157	One stick (10') of 2" Rigid & three (3) 2-hole straps	Provide and install one stick (10') of 2" Rigid & three (3) 2-hole straps	PTOH0008

	Feature Name	Feature Description	Bidder's Product Identifier
	<b>Bidder's Product Description:</b> Provide and install one stick (10') of 1 1/4" Rigid & three (3) 2-hole straps		
158	<b>One 1" EMT Stub up from device box to above ceiling including straps, connector and bushing</b>	Provide and install one 1" EMT Stub up from device box to above ceiling including straps, connector and bushing	PTOH0009
	<b>Bidder's Product Description:</b> Provide and install one stick (10') of 1 1/4" Rigid & three (3) 2-hole straps		
159	<b>Surface mount box</b>	Provide and install Surface mount box	PTOH0010
	<b>Bidder's Product Description:</b> Provide and install Surface mount box		
160	<b>1" 2-hole strap, EMT</b>	Provide and install 1" 2-hole strap, EMT	PTOH0011
	<b>Bidder's Product Description:</b> Provide and install 1" 2-hole strap, EMT		
161	<b>1" bushing, EMT</b>	Provide and install 1" bushing, EMT	PTOH0012
	<b>Bidder's Product Description:</b> Provide and install 1" bushing, EMT		
162	<b>1" compression connector, EMT</b>	Provide and install 1" compression connector, EMT	PTOH0013
	<b>Bidder's Product Description:</b> Provide and install 1" compression connector, EMT		
163	<b>1" compression coupler, EMT</b>	Provide and install 1" compression coupler, EMT	PTOH0014
	<b>Bidder's Product Description:</b> Provide and install 1" compression coupler, EMT		
164	<b>1" unistrut clamp, EMT</b>	Provide and install 1" unistrut clamp, EMT	PTOH0015
	<b>Bidder's Product Description:</b> Provide and install 1" compression coupler, EMT		
165	<b>2" 2-hole strap, EMT</b>	Provide and install 2" 2-hole strap, EMT	PTOH0016
	<b>Bidder's Product Description:</b> Provide and install 2" 2-hole strap, EMT		

	Feature Name	Feature Description	Bidder's Product Identifier
166	2" bushing, EMT	Provide and install 2" bushing, EMT	PTOH0017
	Bidder's Product Description: Provide and install 2" bushing, EMT		
167	2" compression connector, EMT	Provide and install 2" compression connector, EMT	PTOH0018
	Bidder's Product Description: Provide and install 2" compression connector, EMT		
168	2" compression coupler, EMT	Provide and install 2" compression coupler, EMT	PTOH0019
	Bidder's Product Description: Provide and install 2" compression coupler, EMT		
169	2" unistrut clamp, EMT	Provide and install 2" compression coupler, EMT	PTOH0020
	Bidder's Product Description: Provide and install 2" compression coupler, EMT		
170	3" 2-hole strap, EMT	Provide and install 3" 2-hole strap, EMT	PTOH0021
	Bidder's Product Description: Provide and install 3" 2-hole strap, EMT		
171	3" bushing, EMT	Provide and install 3" bushing, EMT	PTOH0022
	Bidder's Product Description: Provide and install 3" bushing, EMT		
172	3" compression connector, EMT	Provide and install 3" compression connector, EMT	PTOH0023
	Bidder's Product Description: Provide and install 3" compression connector, EMT		
173	3" compression coupler, EMT	Provide and install 3" compression coupler, EMT	PTOH0024
	Bidder's Product Description: Provide and install 3" compression connector, EMT		
174	3" unistrut clamp, EMT	Provide and install 3" unistrut clamp, EMT	PTOH0025
	Bidder's Product Description: Provide and install 3" unistrut clamp, EMT		
175	4" 2-hole strap, EMT	Provide and install 4" 2-hole strap, EMT	PTOH0026

	Feature Name	Feature Description	Bidder's Product Identifier
	<b>Bidder's Product Description:</b> Provide and install 4" 2-hole strap, EMT		
176	4" bushing, EMT	Provide and install 4" bushing, EMT	PTOH0027
	<b>Bidder's Product Description:</b> Provide and install 4" 2-hole strap, EMT		
177	4" compression connector, EMT	Provide and install 4" compression connector, EMT	PTOH0028
	<b>Bidder's Product Description:</b> Provide and install 4" 2-hole strap, EMT		
178	4" compression coupler, EMT	Provide and install 4" compression coupler, EMT	PTOH0029
	<b>Bidder's Product Description:</b> Provide and install 4" 2-hole strap, EMT		
179	4" unistrut clamp, EMT	Provide and install 4" unistrut clamp, EMT	PTOH0030
	<b>Bidder's Product Description:</b> Provide and install 4" 2-hole strap, EMT		
180	1" 2-hole strap, Rigid	Provide and install 1" 2-hole strap, Rigid	PTOH0031
	<b>Bidder's Product Description:</b> Provide and install 4" 2-hole strap, EMT		
181	1" bushing, Rigid	Provide and install 1" bushing, Rigid	PTOH0032
	<b>Bidder's Product Description:</b> Provide and install 4" 2-hole strap, EMT		
182	1" compression connector, Rigid	Provide and install 1" compression connector, Rigid	PTOH0033
	<b>Bidder's Product Description:</b> Provide and install 4" 2-hole strap, EMT		
183	1" compression coupler, Rigid	Provide and install 1" compression coupler, Rigid	PTOH0034
	<b>Bidder's Product Description:</b> Provide and install 1" compression coupler, Rigid		
184	1" unistrut clamp, Rigid	Provide and install 1" unistrut clamp, Rigid	PTOH0035
	<b>Bidder's Product Description:</b> Provide and install 1" unistrut clamp, Rigid		

	Feature Name	Feature Description	Bidder's Product Identifier
185	2" 2-hole strap, Rigid	Provide and install 2" 2-hole strap, Rigid	PTOH0036
	Bidder's Product Description: Provide and install 2" 2-hole strap, Rigid		
186	2" bushing, Rigid	Provide and install 2" bushing, Rigid	PTOH0037
	Bidder's Product Description: Provide and install 2" bushing, Rigid		
187	2" compression connector, Rigid	Provide and install 2" compression connector, Rigid	PTOH0038
	Bidder's Product Description: Provide and install 2" compression connector, Rigid		
188	2" compression coupler, Rigid	Provide and install 2" compression coupler, Rigid	PTOH0039
	Bidder's Product Description: Provide and install 2" compression coupler, Rigid		
189	2" unistrut clamp, Rigid	Provide and install 2" unistrut clamp, Rigid	PTOH0040
	Bidder's Product Description: Provide and install 2" unistrut clamp, Rigid		
190	2" J-Hook w/multipurpose clip	Provide and install 2" J-Hook w/multipurpose clip	PTOH0041
	Bidder's Product Description: Provide and install 2" J-Hook w/multipurpose clip		
191	Bell box (raco 5387-0)	Provide and install Bell box (raco 5387-0)	PTOH0042
	Bidder's Product Description: Provide and install Bell box (raco 5387-0)		
192	8"x8"x6" pull box NEMA 1	Provide and install 8"x8"x6" pull box NEMA 1	PTOH0043
	Bidder's Product Description: Provide and install 8"x8"x6" pull box NEMA 1		
193	12"x12"x8" NEMA 1 junction box NEMA 1	Provide and install 12"x12"x8" NEMA 1 junction box NEMA 1	PTOH0044
	Bidder's Product Description: Provide and install 12"x12"x8" NEMA 1 junction box NEMA 1		

	Feature Name	Feature Description	Bidder's Product Identifier
194	12"x12"x8" NEMA 1 junction box NEMA 3	Provide and install 12"x12"x8" NEMA 1 junction box NEMA 3	PTOH0045
	<b>Bidder's Product Description:</b> Provide and install 12"x12"x8" NEMA 1 junction box NEMA 3		
195	Install customer provided WAP (Wireless Access Point); (does not include configuration)	Install customer provided WAP (Wireless Access Point); (does not include configuration).	PTOH0046
	<b>Bidder's Product Description:</b> Provide and install 12"x12"x8" NEMA 1 junction box NEMA 3		
196	WAP (Wireless Access Point) Enclosure	Provide and install WAP (Wireless Access Point) Enclosure	PTOH0047
	<b>Bidder's Product Description:</b> Provide and install WAP (Wireless Access Point) Enclosure		
197	Install customer provided Camera (does not include configuration)	Install customer provided Camera (does not include configuration).	PTOH0048
	<b>Bidder's Product Description:</b> Provide and install WAP (Wireless Access Point) Enclosure		
198	Install customer provided paging speaker Drop Tile Ceiling	Includes installation hardware; speaker is not included	PTOH0049
	<b>Bidder's Product Description:</b> Install customer provided paging speaker Drop Tile Ceiling. Includes installation hardware; speaker is not included		
199	Unistrut slotted 7/8"	Provide and install Unistrut slotted 7/8"	PTOH0050
	<b>Bidder's Product Description:</b> Includes installation hardware; speaker is not included		
200	1" unistrut straps	Provide and install 1" unistrut straps	PTOH0051
	<b>Bidder's Product Description:</b> Provide and install 1" unistrut straps		
201	2" unistrut straps	Provide and install 2" unistrut straps	PTOH0052

	Feature Name	Feature Description	Bidder's Product Identifier
	<b>Bidder's Product Description:</b> Provide and install 1" unistrut straps		
202	1" EMT sleeve (core or penetration not included)	Provide and install 1" EMT sleeve (core or penetration not included)	PTOH0053
	<b>Bidder's Product Description:</b> Provide and install 1" EMT sleeve (core or penetration not included)		
203	2" EMT sleeve (core or penetration not included)	Provide and install 2" EMT sleeve (core or penetration not included)	PTOH0054
	<b>Bidder's Product Description:</b> Provide and install 2" EMT sleeve (core or penetration not included)		
204	3" EMT sleeve (core or penetration not included)	Provide and install 3" EMT sleeve (core or penetration not included)	PTOH0055
	<b>Bidder's Product Description:</b> Provide and install 3" EMT sleeve (core or penetration not included)		
205	4" EMT sleeve (core or penetration not included)	Provide and install 4" EMT sleeve (core or penetration not included)	PTOH0056
	<b>Bidder's Product Description:</b> Provide and install 4" EMT sleeve (core or penetration not included)		
206	8"x8"x6" pull box NEMA R3	Provide and install 8"x8"x6" pull box NEMA R3	PTOH0057
	<b>Bidder's Product Description:</b> Provide and install 4" EMT sleeve (core or penetration not included)		
<b>Raceway</b>			
207	Raceway 5-foot base ivory and cover 2300BAC plastic (2 1/4" x 11/16")	Provide and install raceway 5-foot base ivory and cover 2300BAC plastic (2 1/4" x 11/16")	RCWO0001

	Feature Name	Feature Description	Bidder's Product Identifier
	<b>Bidder's Product Description:</b> Provide and install raceway 5-foot base ivory and cover 2300BAC plastic (2 1/4" x 11/16")		
208	<b>Raceway Cover clip 2306</b>	Provide and install raceway Cover clip 2306	RCWO0002
	<b>Bidder's Product Description:</b> Provide and install raceway Cover clip 2306		
209	<b>Raceway Internal elbow 2317DF0</b>	Provide and install raceway External bend 2318DF0	RCWO0003
	<b>Bidder's Product Description:</b> Provide and install raceway External bend 2318DF0		
210	<b>Raceway External bend 2318DF0</b>	Provide and install raceway External bend 2318DF0	RCWO0004
	<b>Bidder's Product Description:</b> Provide and install raceway External bend 2318DF0		
211	<b>Raceway Flat elbow 2311DF0</b>	Provide and install raceway Flat elbow 2311DF0	RCWO0005
	<b>Bidder's Product Description:</b> Provide and install raceway Flat elbow 2311DF0		
212	<b>Raceway Wire clip ivory 2300WC</b>	Provide and install raceway Wire clip ivory 2300WC	RCWO0006
	<b>Bidder's Product Description:</b> Provide and install raceway Wire clip ivory 2300WC		
213	<b>Raceway Blank end fitting 2310B</b>	Provide and install raceway Blank end fitting 2310B	RCWO0007
	<b>Bidder's Product Description:</b> Provide and install raceway Blank end fitting 2310B		
214	<b>Raceway Entrance fitting 2310A</b>	Provide and install raceway Entrance fitting 2310A	RCWO0008
	<b>Bidder's Product Description:</b> Provide and install raceway Entrance fitting 2310A		
215	<b>Raceway Tee 2315</b>	Provide and install raceway Tee 2315	RCWO0009
	<b>Bidder's Product Description:</b> Provide and install raceway Tee 2315		
<b>Other Tasks</b>			
216	<b>Core Drilling, 1" hole</b>	Core Drilling, 1" hole	CDOV0001

	Feature Name	Feature Description	Bidder's Product Identifier
	<b>Bidder's Product Description:</b> Core Drilling, 1" hole		
217	Core Drilling, 2" hole	Core Drilling, 2" hole	CDOV0002
	<b>Bidder's Product Description:</b> Core Drilling, 2" hole		
218	Core Drilling, 3" hole	Core Drilling, 3" hole	CDOV0003
	<b>Bidder's Product Description:</b> Core Drilling, 3" hole		
219	Core Drilling, 4" hole	Core Drilling, 4" hole	CDOV0004
	<b>Bidder's Product Description:</b> Core Drilling, 4" hole		
220	Wall penetration - drywall	Wall penetration - drywall	PNTW0001
	<b>Bidder's Product Description:</b> Wall penetration - drywall		
221	Scissor Lift Rental (20') (Includes daily rate, pickup and delivery fees)	For contractor use in support of SRI services.	SCLR0001
	<b>Bidder's Product Description:</b> Scissor Lift Rental (20') (Includes daily rate, pickup and delivery fees)		
222	Fire Seal Penetration, 1" hole	Fire Seal Penetration, 1" hole	FSPO0001
	<b>Bidder's Product Description:</b> Fire Seal Penetration, 1" hole		
223	Fire Seal Penetration, 2" hole	Fire Seal Penetration, 2" hole	FSPO0002
	<b>Bidder's Product Description:</b> Fire Seal Penetration, 2" hole		
224	Fire Seal Penetration, 3" hole	Fire Seal Penetration, 3" hole	FSPO0003
	<b>Bidder's Product Description:</b> Fire Seal Penetration, 3" hole		

	Feature Name	Feature Description	Bidder's Product Identifier
225	Fire Seal Penetration, 4" hole	Fire Seal Penetration, 4" hole	FSP00004
	<b>Bidder's Product Description:</b> Fire Seal Penetration, 4" hole		
226	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)	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)	GRNV0001
	<b>Bidder's Product Description:</b> 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)		
227	Installation of equipment ground (Includes all material, terminations and labor for each applicable equipment and the installation # 6 ground wire .	Installation of equipment ground (Includes all material, terminations and labor for each applicable equipment and the installation # 6 ground wire .	GRNV0002
	<b>Bidder's Product Description:</b> Installation of equipment ground (Includes all material, terminations and labor for each applicable equipment and the installation # 6 ground wire		
228	Relocate existing telephone handset (same HC/TC on existing cabling) - includes cross-connect, testing, and documentation	Relocate existing telephone handset (same HC/TC on existing cabling) - includes cross-connect, testing, and documentation	GRNV0003
	<b>Bidder's Product Description:</b> Relocate existing telephone handset (same HC/TC on existing cabling) - includes cross-connect, testing, and documentation		

	Feature Name	Feature Description	Bidder's Product Identifier
229	Install new cross-connect	Install new cross-connect	CNCR0000
	<b>Bidder's Product Description:</b> Install new cross-connect		

Table 5.4.4.c Services Related Infrastructure Sunday and Holiday Hours

	Feature Name	Feature Description	Bidder's Product Identifier
<b>Telco Room - MDF/IDF/MPOE</b>			
1	Install customer provided UPS	Install customer provided UPS	CPEU0002
	<b>Bidder's Product Description:</b> Install customer provided UPS		
2	Cable 48-port switch (patch cords)	Install patch cords in customer provided device. Total of 48 patch cords provided and installed.	PCHS0000
	<b>Bidder's Product Description:</b> Install patch cords in customer provided device. Total of 48 patch cords provided and installed.		
3	7' 2-post rack	Provide and install 7' 2-post rack	PSTH0002
	<b>Bidder's Product Description:</b> Provide and install 7' 2-post rack		
4	7' 4-post rack	Provide and install 7' 4-post rack	PSTH0004
	<b>Bidder's Product Description:</b> Provide and install 7' 4-post rack		
5	Install customer provided rack	Install customer provided rack	CPER0002
	<b>Bidder's Product Description:</b> Install customer provided rack		
6	Horizontal wire manager	Install and provide horizontal wire manager	HWMN0002
	<b>Bidder's Product Description:</b> Install and provide horizontal wire manager		

	Feature Name	Feature Description	Bidder's Product Identifier
7	Vertical wire manager	Install and provide vertical wire manager	VWMN0002
	<b>Bidder's Product Description:</b> Install and provide vertical wire manager		
8	Install customer provided wire manager	Install and provide vertical wire manager	CPEW0002
	<b>Bidder's Product Description:</b> Install and provide vertical wire manager		
9	Shelf (single sided 3U)	Provide and Install each shelf (single sided 3U)	SHLF0002
	<b>Bidder's Product Description:</b> Provide and Install each shelf (single sided 3U)		
10	Customer provided shelf	Install customer provided shelf	CPSH0002
	<b>Bidder's Product Description:</b> Install customer provided shelf		
11	Hinged Wall Bracket	Provide and install Hinged Wall Bracket	HWBR0002
	<b>Bidder's Product Description:</b> Provide and install Hinged Wall Bracket		
12	4' x 4' x 3/4" painted plywood backboard	Provide and install 4' x 4' x 3/4" painted plywood backboard – fire rated	PLBD0002
	<b>Bidder's Product Description:</b> Provide and install 4' x 4' x 3/4" painted plywood backboard – fire rated		
13	Power strip (4 outlets)	Provide and Install each power strip (4 outlets). Standard plug in power strip.	PWRH0004
	<b>Bidder's Product Description:</b> Provide and Install each power strip (4 outlets). Standard plug in power strip.		
14	10' of 12" ladder rack and support hardware	Provide and install up to 10' of 12" ladder rack and support hardware.	LDRH0000

	Feature Name	Feature Description	Bidder's Product Identifier
	<b>Bidder's Product Description:</b> Provide and install up to 10' of 12" ladder rack and support hardware.		
15	<b>Communication pole 10 feet</b>	Provide and install Communication pole 10 feet. Matches existing modular furniture manufacturer if available.	CPHL0010
	<b>Bidder's Product Description:</b> Provide and install Communication pole 10 feet. Matches existing modular furniture manufacturer if available.		
16	<b>One (1) 20 Amp Duplex Outlet within 75' of Existing Panel</b>	Provide and install one (1) 20 Amp Duplex Outlet within 75' of Existing Panel. Not to exceed price. IPR available for reduced rates.	ADOH0000
	<b>Bidder's Product Description:</b> Provide and install one (1) 20 Amp Duplex Outlet within 75' of Existing Panel. Not to exceed price. IPR available for reduced rates.		
<b>Backbone Cabling Placing and Consumables</b>			
17	<b>6-strand MM ISP fiber</b>	Provide and install 6-strand MM ISP fiber. 50 μ or 62.5 μ fiber plenum	BBCB0001
	<b>Bidder's Product Description:</b> Provide and install 6-strand MM ISP fiber. 50 μ or 62.5 μ fiber plenum		
18	<b>6-strand SM ISP fiber</b>	Provide and install 6-strand SM ISP fiber. 8.3 μ fiber plenum	BBCB0002
	<b>Bidder's Product Description:</b> Provide and install 6-strand SM ISP fiber. 8.3 μ fiber plenum		
19	<b>12-strand MM ISP fiber</b>	Provide and install 12-strand MM ISP fiber. 50 μ or 62.5 μ fiber plenum	BBCB0003
	<b>Bidder's Product Description:</b> Provide and install 12-strand MM ISP fiber. 50 μ or 62.5 μ fiber plenum		
20	<b>12-strand SM ISP fiber</b>	Provide and install 12-strand SM ISP fiber. 8.3 μ fiber plenum	BBCB0004
	<b>Bidder's Product Description:</b> Provide and install 12-strand SM ISP fiber. 8.3 μ fiber plenum		

	Feature Name	Feature Description	Bidder's Product Identifier
21	6-strand MM Indoor/Outdoor Fiber	Provide and install 6-strand MM Indoor/Outdoor fiber	BBCB0005
	<b>Bidder's Product Description:</b> Provide and install 6-strand MM Indoor/Outdoor fiber		
22	6-strand SM Indoor/Outdoor Fiber	Provide and install 6-strand SM Indoor/Outdoor fiber	BBCB0006
	<b>Bidder's Product Description:</b> Provide and install 6-strand SM Indoor/Outdoor fiber		
23	12-strand MM Indoor/Outdoor Fiber	Provide and install 12-strand MM Indoor/Outdoor fiber.	BBCB0007
	<b>Bidder's Product Description:</b> Provide and install 12-strand MM Indoor/Outdoor fiber		
24	12-strand SM Indoor/Outdoor Fiber	Provide and install 12-strand SM Indoor/Outdoor fiber.	BBCB0008
	<b>Bidder's Product Description:</b> Provide and install 12-strand SM Indoor/Outdoor fiber.		
25	24-strand SM OSP underground fiber	Provide and install 24-strand SM OSP underground fiber.	BBCB0009
	<b>Bidder's Product Description:</b> Provide and install 24-strand SM OSP underground fiber.		
26	48-strand SM OSP underground fiber	Provide and install 48-strand SM OSP underground fiber.	BBCB0010
	<b>Bidder's Product Description:</b> Provide and install 48-strand SM OSP underground fiber.		
27	24-strand SM Indoor/Outdoor Fiber	Provide and install 24-strand SM Indoor/Outdoor fiber.	BBCB0011
	<b>Bidder's Product Description:</b> Provide and install 24-strand SM Indoor/Outdoor fiber		
28	48-strand SM Indoor/Outdoor Fiber	Provide and install 48-strand SM Indoor/Outdoor fiber.	BBCB0012

	Feature Name	Feature Description	Bidder's Product Identifier
	<b>Bidder's Product Description:</b> Provide and install 48-strand SM Indoor/Outdoor fiber.		
29	1" innerduct underground in existing duct	Provide and install 1" innerduct underground in existing duct. Override situations will be accessed by contractor for viability.	BBCB0013
	<b>Bidder's Product Description:</b> Provide and install 1" innerduct underground in existing duct. Override situations will be accessed by contractor for viability.		
30	1 1/4" innerduct underground in existing duct	Provide and install 1 1/4" innerduct underground in existing duct. Override situations will be accessed by contractor for viability	BBCB0014
	<b>Bidder's Product Description:</b> Provide and install 1 1/4" innerduct underground in existing duct. Override situations will be accessed by contractor for viability		
31	25-pair copper ISP	Provide and install 25-pair copper ISP. Plenum.	BBCB0015
	<b>Bidder's Product Description:</b> Provide and install 25-pair copper ISP. Plenum.		
32	25-pair copper underground OSP	Provide and install 25-pair copper underground OSP.	BBCB0016
	<b>Bidder's Product Description:</b> Provide and install 25-pair copper underground OSP.		
33	50-pair copper ISP	Provide and install 50-pair copper ISP. Plenum.	BBCB0017
	<b>Bidder's Product Description:</b> Provide and install 50-pair copper ISP. Plenum		
34	50-pair copper underground OSP	Provide and install 50-pair copper underground OSP.	BBCB0018
	<b>Bidder's Product Description:</b> Provide and install 50-pair copper underground OSP.		
35	100-pair copper ISP	Provide and install 100-pair copper ISP. Plenum.	BBCB0019
	<b>Bidder's Product Description:</b> Provide and install 100-pair copper ISP. Plenum.		
36	100-pair copper underground OSP	Provide and install 100-pair copper underground OSP.	BBCB00020

	Feature Name	Feature Description	Bidder's Product Identifier
	<b>Bidder's Product Description:</b> Provide and install 100-pair copper underground OSP.		
<b>Backbone and Circuit Extension Cable Placing and Consumables</b>			
37	<b>300' Cat 6 copper ISP circuit extension</b>	Provide and install up to 300' Cat 6 copper ISP circuit extension. Plenum	BCEN0001
	<b>Bidder's Product Description:</b> Provide and install up to 300' Cat 6 copper ISP circuit extension. Plenum		
38	<b>300' Cat 6 copper OSP circuit extension</b>	Provide and install up to 300' Cat 6 copper OSP circuit extension.	BCEN0002
	<b>Bidder's Product Description:</b> Provide and install up to 300' Cat 6 copper OSP circuit extension.		
39	<b>300' 25-pair copper ISP circuit extension</b>	Provide and install up to 300' 25-pair copper ISP circuit extension. Plenum.	BCEN0003
	<b>Bidder's Product Description:</b> Provide and install up to 300' 25-pair copper ISP circuit extension. Plenum		
40	<b>300' 25-pair copper OSP circuit extension</b>	Provide and install up to 300' 25-pair copper OSP circuit extension.	BCEN0004
	<b>Bidder's Product Description:</b> Provide and install up to 300' 25-pair copper OSP circuit extension.		
41	<b>300' RG58 COAX ISP</b>	Provide and install up to 300' RG58 COAX ISP. Plenum.	BCEN0005
	<b>Bidder's Product Description:</b> Provide and install up to 300' RG58 COAX ISP. Plenum.		
42	<b>300' RG62 COAX ISP</b>	Provide and install up to 300' RG62 COAX ISP. Plenum.	BCEN0006
	<b>Bidder's Product Description:</b> Provide and install up to 300' RG62 COAX ISP. Plenum.		

	Feature Name	Feature Description	Bidder's Product Identifier
43	<b>300' RG6 COAX ISP</b>	Provide and install up to 300' RG6 COAX ISP. Plenum.	BCEN0007
	<b>Bidder's Product Description:</b> Provide and install up to 300' RG6 COAX ISP. Plenum.		
<b>Backbone and Circuit Extension - Termination Hardware</b>			
44	<b>25-pair protector</b>	Provide and install 25-pair protector. Gas modules or match existing.	BCHL0001
	<b>Bidder's Product Description:</b> Provide and install 25-pair protector. Gas modules or match existing.		
45	<b>50-pair protector</b>	Provide and install 50-pair protector. Gas modules or match existing.	BCHL0002
	<b>Bidder's Product Description:</b> Provide and install 50-pair protector. Gas modules or match existing.		
46	<b>100-pair protector</b>	Provide and install 100-pair protector. Gas modules or match existing.	BCHL0003
	<b>Bidder's Product Description:</b> Provide and install 100-pair protector. Gas modules or match existing.		
47	<b>4-pair protector</b>	Provide and install 4-pair protector. Gas modules or match existing.	BCHL0004
	<b>Bidder's Product Description:</b> Provide and install 4-pair protector. Gas modules or match existing.		
48	<b>Protector modules</b>	Provide and install protector modules. Gas modules or match existing.	BCHL0005
	<b>Bidder's Product Description:</b> Provide and install 4-pair protector. Gas modules or match existing.		
49	<b>BIX mount 250-pair</b>	Provide and install BIX mount 250-pair.	BCHL0006

	Feature Name	Feature Description	Bidder's Product Identifier
	<b>Bidder's Product Description:</b> Provide and install 4-pair protector. Gas modules or match existing.		
50	<b>BIX connector</b>	Provide and install BIX connector.	BCHL0007
	<b>Bidder's Product Description:</b> Provide and install BIX connector.		
51	<b>BIX ring</b>	Provide and install BIX ring.	BCHL0008
	<b>Bidder's Product Description:</b> Provide and install 66-type Block 50 pair.		
52	<b>66-type Block 50 pair</b>	Provide and install 66-type Block 50 pair.	BCHL0009
	<b>Bidder's Product Description:</b> Provide and install 66-type Block 50 pair.		
53	<b>110-style block 100 pair kit</b>	Provide and install 110-style block 100 pair kit. Includes C4 or C5 clips.	BCHL0010
	<b>Bidder's Product Description:</b> Provide and install 110-style block 100 pair kit. Includes C4 or C5 clips		
54	<b>Rack Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber</b>	Provide and install Rack Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber. Cabinet only. Panels purchased separately.	BCHL0011
	<b>Bidder's Product Description:</b> Provide and install Rack Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber. Cabinet only. Panels purchased separately.		
55	<b>Rack Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber</b>	Provide and install Rack Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber. Cabinet only. Panels purchased separately.	BCHL0012
	<b>Bidder's Product Description:</b> Provide and install Rack Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber. Cabinet only. Panels purchased separately.		

	Feature Name	Feature Description	Bidder's Product Identifier
56	<b>Wall Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber</b>	Provide and install Wall Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber. Cabinet only. Panels purchased separately.	BCHL0013
	<b>Bidder's Product Description:</b> Provide and install Wall Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber. Cabinet only. Panels purchased separately.		
57	<b>Wall Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber</b>	Provide and install Wall Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber. Cabinet only. Panels purchased separately.	BCHL0014
	<b>Bidder's Product Description:</b> Provide and install Wall Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber. Cabinet only. Panels purchased separately.		
58	<b>6-strand connector panel MM 50/125 SC</b>	Provide and Install 6-strand connector panel MM 50/125 SC. Complete with couplers.	BCHL0015
	<b>Bidder's Product Description:</b> Provide and Install 6-strand connector panel MM 50/125 SC. Complete with couplers.		
59	<b>6-strand connector panel MM 50/125 LC</b>	Provide and install 6-strand connector panel MM 50/125 LC. Complete with couplers.	BCHL0016
	<b>Bidder's Product Description:</b> Provide and install 6-strand connector panel MM 50/125 LC. Complete with couplers.		
60	<b>6-strand connector panel MM 62.5/125 SC</b>	Provide and install 6-strand connector panel MM 62.5/125 SC. Complete with couplers.	BCHL0017
	<b>Bidder's Product Description:</b> Provide and install 6-strand connector panel MM 50/125 LC. Complete with couplers.		
61	<b>6-strand connector panel MM 62.5/125 LC</b>	Provide and install 6-strand connector panel MM 62.5/125 LC. Complete with couplers.	BCHL0018
	<b>Bidder's Product Description:</b> Provide and install 6-strand connector panel MM 62.5/125 LC. Complete with couplers		

	Feature Name	Feature Description	Bidder's Product Identifier
62	<b>12-strand connector panel MM 50/125 SC</b>	Provide and install 12-strand connector panel MM 50/125 SC. Complete with couplers.	BCHL0019
	<b>Bidder's Product Description:</b> Provide and install 12-strand connector panel MM 50/125 SC. Complete with couplers.		
63	<b>12-strand connector panel MM 50/125 LC</b>	Provide and install 12-strand connector panel MM 50/125 LC. Complete with couplers.	BCHL0020
	<b>Bidder's Product Description:</b> Provide and install 12-strand connector panel MM 50/125 LC. Complete with couplers.		
64	<b>12-strand connector panel MM 62.5/125 SC</b>	Provide and install 12-strand connector panel MM 62.5/125 SC. Complete with couplers.	BCHL0021
	<b>Bidder's Product Description:</b> Provide and install 12-strand connector panel MM 62.5/125 SC. Complete with couplers.		
65	<b>12-strand connector panel MM 62.5/125 LC</b>	Provide and install 12-strand connector panel MM 62.5/125 LC, Complete with couplers.	BCHL0022
	<b>Bidder's Product Description:</b> Provide and install 12-strand connector panel MM 62.5/125 LC, Complete with couplers.		
66	<b>6-strand connector panel SM SC</b>	Provide and install 6-strand connector panel SM SC. Complete with couplers.	BCHL0023
	<b>Bidder's Product Description:</b> Provide and install 6-strand connector panel SM LC. Complete with couplers.		
67	<b>6-strand connector panel SM LC</b>	Provide and install 6-strand connector panel SM LC. Complete with couplers.	BCHL0024
	<b>Bidder's Product Description:</b> Provide and install 6-strand connector panel SM LC. Complete with couplers.		

	Feature Name	Feature Description	Bidder's Product Identifier
68	12-strand connector panel SM SC	Provide and install 12-strand connector panel SM SC. Complete with couplers.	BCHL0025
	<b>Bidder's Product Description:</b> Provide and install 12-strand connector panel SM SC. Complete with couplers.		
69	12-strand connector panel SM LC	Provide and install 12-strand connector panel SM LC. Complete with couplers.	BCHL0026
	<b>Bidder's Product Description:</b> Provide and install 12-strand connector panel SM LC. Complete with couplers		
70	Provide SC Compatible 50µm Multimode connector (material only)	Must be ordered with Product Identifiers BCEH0005 or BCEH0006 and BCEH0007	BCHL0027
	<b>Bidder's Product Description:</b> Provide SC Compatible 50µm Multimode connector (material only) Provide SC Compatible 50µm Multimode connector (material only). Provide SC Compatible 50µm Multimode connector (material only)		
71	Provide SC Compatible 62.5µm Multimode connector (material only)	Must be ordered with Product Identifiers BCEH0005 or BCEH0006 and BCEH0007	BCHL0028
	<b>Bidder's Product Description:</b> Provide SC Compatible 50µm Multimode connector (material only). Must be ordered with Product Identifiers BCEH0005 or BCEH0006 and BCEH0007.		
72	Provide SC Compatible Single Mode connector (material only)	Must be ordered with Product Identifiers BCEH0005 or BCEH0006 and BCEH0007	BCHL0029
	<b>Bidder's Product Description:</b> Provide SC Compatible Single Mode connector (material only). Must be ordered with Product Identifiers BCEH0005 or BCEH0006 and BCEH0007.		
73	Provide LC Compatible 50µm Multimode	Must be ordered with Product Identifiers BCEH0005 or BCEH0006 and BCEH0007	BCHL0030

	Feature Name	Feature Description	Bidder's Product Identifier
	connector (material only)		
	<b>Bidder's Product Description:</b> Provide LC Compatible 50µm Multimode connector (material only). Must be ordered with Product Identifiers BCEH0005 or BCEH0006 and BCEH0007.		
74	Provide LC Compatible 62.5µm Multimode connector (material only)	Must be ordered with Product Identifiers BCEH0005 or BCEH0006 and BCEH0007	BCHL0031
	<b>Bidder's Product Description:</b> Provide LC Compatible 62.5µm Multimode connector (material only). Must be ordered with Product Identifiers BCEH0005 or BCEH0006 and BCEH0007.		
75	Provide LC Compatible Single Mode connector (material only)	Must be ordered with Product Identifiers BCEH0005 or BCEH0006 and BCEH0007	BCHL0032
	<b>Bidder's Product Description:</b> Provide LC Compatible Single Mode connector (material only). Must be ordered with Product Identifiers BCEH0005 or BCEH0006 and BCEH0007.		
76	Multimode 62.5/125 SC To SC 1 Meter Patch Cable	Provide and install Multimode 62.5/125 SC To SC 1 Meter Patch Cable.	BCHL0033
	<b>Bidder's Product Description:</b> Provide and install Multimode 62.5/125 SC To SC 1 Meter Patch Cable		
77	Multimode 62.5/125 SC To SC 3 Meter Patch Cable	Provide and install Multimode 62.5/125 SC To SC 3 Meter Patch Cable.	BCHL0034
	<b>Bidder's Product Description:</b> Provide and install Multimode 62.5/125 SC To SC 3 Meter Patch Cable.		
78	Multimode 62.5/125 SC To SC 10 Meter Patch Cable	Provide and Install Multimode 62.5/125 SC To SC 10 Meter Patch Cable.	BCHL0035
	<b>Bidder's Product Description:</b> Provide and Install Multimode 62.5/125 SC To SC 10 Meter Patch Cable		

	Feature Name	Feature Description	Bidder's Product Identifier
79	<b>Multimode 62.5/125 SC To LC 1 Meter Patch Cable</b>	Provide and install Multimode 62.5/125 SC To LC 1 Meter Patch Cable.	BCHL0036
	<b>Bidder's Product Description:</b> Provide and install Multimode 62.5/125 SC To LC 1 Meter Patch Cable.		
80	<b>Multimode 62.5/125 SC To LC 3 Meter Patch Cable</b>	Provide and install Multimode 62.5/125 SC To LC 3 Meter Patch Cable.	BCHL0037
	<b>Bidder's Product Description:</b> Provide and install Multimode 62.5/125 SC To LC 3 Meter Patch Cable.		
81	<b>Multimode 62.5/125 SC To LC 10 Meter Patch Cable</b>	Provide and install Multimode 62.5/125 SC To LC 10 Meter Patch Cable.	BCHL0038
	<b>Bidder's Product Description:</b> Provide and install Multimode 62.5/125 SC To LC 3 Meter Patch Cable.		
82	<b>Multimode 62.5/125 LC To LC 1 Meter Patch Cable</b>	Provide and install Multimode 62.5/125 LC To LC 1 Meter Patch Cable.	BCHL0039
	<b>Bidder's Product Description:</b> Provide and install Multimode 62.5/125 LC To LC 1 Meter Patch Cable.		
83	<b>Multimode 62.5/125 LC To LC 3 Meter Patch Cable</b>	Provide and install Multimode 62.5/125 LC To LC 3 Meter Patch Cable.	BCHL0040
	<b>Bidder's Product Description:</b> Provide and install Multimode 62.5/125 LC To LC 3 Meter Patch Cable.		
84	<b>Multimode 62.5/125 LC To LC 10 Meter Patch Cable</b>	Provide and install Multimode 62.5/125 LC To LC 10 Meter Patch Cable.	BCHL0041
	<b>Bidder's Product Description:</b> Provide and install Multimode 62.5/125 LC To LC 10 Meter Patch Cable.		

	Feature Name	Feature Description	Bidder's Product Identifier
85	<b>Multimode 50/125 SC To SC 1 Meter Patch Cable</b>	Provide and install Multimode 50/125 SC To SC 1 Meter Patch Cable.	BCHL0042
	<b>Bidder's Product Description:</b> Provide and install Multimode 62.5/125 LC To LC 10 Meter Patch Cable.		
86	<b>Multimode 50/125 SC To SC 3 Meter Patch Cable</b>	Provide and install Multimode 50/125 SC To SC 3 Meter Patch Cable.	BCHL0043
	<b>Bidder's Product Description:</b> Provide and install Multimode 50/125 SC To SC 3 Meter Patch Cable.		
87	<b>Multimode 50/125 SC To SC 10 Meter Patch Cable</b>	Provide and install Multimode 50/125 SC To SC 10 Meter Patch Cable.	BCHL0044
	<b>Bidder's Product Description:</b> Provide and install Multimode 50/125 SC To SC 10 Meter Patch Cable		
88	<b>Multimode 50/125 SC To LC 1 Meter Patch Cable</b>	Provide and install Multimode 50/125 SC To LC 1 Meter Patch Cable.	BCHL0045
	<b>Bidder's Product Description:</b> Provide and install Multimode 50/125 SC To SC 10 Meter Patch Cable		
89	<b>Multimode 50/125 SC To LC 3 Meter Patch Cable</b>	Provide and install Multimode 50/125 SC To LC 3 Meter Patch Cable.	BCHL0046
	<b>Bidder's Product Description:</b> Provide and install Multimode 50/125 SC To LC 3 Meter Patch Cable.		
90	<b>Multimode 50/125 SC To LC 10 Meter Patch Cable</b>	Provide and install Multimode 50/125 SC To LC 10 Meter Patch Cable.	BCHL0047
	<b>Bidder's Product Description:</b> Provide and install Multimode 50/125 SC To LC 10 Meter Patch Cable.		

	Feature Name	Feature Description	Bidder's Product Identifier
91	<b>Multimode 50/125 LC To LC 1 Meter Patch Cable</b>	Provide and install Multimode 50/125 LC To LC 1 Meter Patch Cable.	BCHL0048
	<b>Bidder's Product Description:</b> Provide and install Multimode 50/125 SC To LC 10 Meter Patch Cable.		
92	<b>Multimode 50/125 LC To LC 3 Meter Patch Cable</b>	Provide and install Multimode 50/125 LC To LC 3 Meter Patch Cable.	BCHL0049
	<b>Bidder's Product Description:</b> Provide and install Multimode 50/125 LC To LC 3 Meter Patch Cable.		
93	<b>Multimode 50/125 LC To LC 10 Meter Patch Cable</b>	Provide and install Multimode 50/125 LC To LC 10 Meter Patch Cable.	BCHL0050
	<b>Bidder's Product Description:</b> Provide and install Multimode 50/125 LC To LC 10 Meter Patch Cable.		
94	<b>Single Mode 9/125 SC To SC 1 Meter Patch Cable</b>	Provide and install Single Mode 9/125 SC To SC 1 Meter Patch Cable.	BCHL0051
	<b>Bidder's Product Description:</b> Provide and install Single Mode 9/125 SC To SC 1 Meter Patch Cable.		
95	<b>Single Mode 9/125 SC To SC 3 Meter Patch Cable</b>	Provide and install Single Mode 9/125 SC To SC 3 Meter Patch Cable.	BCHL0052
	<b>Bidder's Product Description:</b> Provide and install Single Mode 9/125 SC To SC 3 Meter Patch Cable.		
96	<b>Single Mode 9/125 SC To SC 10 Meter Patch Cable</b>	Provide and install Single Mode 9/125 SC To SC 10 Meter Patch Cable.	BCHL0053
	<b>Bidder's Product Description:</b> Provide and install Single Mode 9/125 SC To SC 10 Meter Patch Cable.		

	Feature Name	Feature Description	Bidder's Product Identifier
97	<b>Single Mode 9/125 SC To LC 1 Meter Patch Cable</b>	Provide and install Single Mode 9/125 SC To LC 1 Meter Patch Cable.	BCHL0054
	<b>Bidder's Product Description:</b> Provide and install Single Mode 9/125 SC To LC 1 Meter Patch Cable.		
98	<b>Single Mode 9/125 SC To LC 3 Meter Patch Cable</b>	Provide and install Single Mode 9/125 SC To LC 3 Meter Patch Cable.	BCHL0055
	<b>Bidder's Product Description:</b> Provide and install Single Mode 9/125 SC To LC 3 Meter Patch Cable.		
99	<b>Single Mode 9/125 SC To LC 10 Meter Patch Cable</b>	Provide and install Single Mode 9/125 SC To LC 10 Meter Patch Cable.	BCHL0056
	<b>Bidder's Product Description:</b> Provide and install Single Mode 9/125 SC To LC 10 Meter Patch Cable.		
100	<b>Single Mode 9/125 LC To LC 1 Meter Patch Cable</b>	Provide and install Single Mode 9/125 LC To LC 1 Meter Patch Cable.	BCHL0057
	<b>Bidder's Product Description:</b> Provide and install Single Mode 9/125 LC To LC 1 Meter Patch Cable		
101	<b>Single Mode 9/125 LC To LC 3 Meter Patch Cable</b>	Provide and install Single Mode 9/125 LC To LC 3 Meter Patch Cable.	BCHL0058
	<b>Bidder's Product Description:</b> Provide and install Single Mode 9/125 LC To LC 3 Meter Patch Cable.		
102	<b>Single Mode 9/125 LC To LC 10 Meter Patch Cable</b>	Provide and install Single Mode 9/125 LC To LC 10 Meter Patch Cable.	BCHL0059
	<b>Bidder's Product Description:</b> Provide and install Single Mode 9/125 LC To LC 10 Meter Patch Cable.		
<b>Backbone and Circuit Extension Termination and/or Testing</b>			

	Feature Name	Feature Description	Bidder's Product Identifier
103	Copper cable termination per pair (25 pair and larger)	Labor and consumables to terminate and test media.	BCEH0001
	<b>Bidder's Product Description:</b> Provide and install Single Mode 9/125 LC To LC 1 Meter Patch Cable. Labor and consumables to terminate and test media.		
104	Copper cable splicing per pair (25 pair and larger)	Labor and consumables to terminate and test media.	BCEH0002
	<b>Bidder's Product Description:</b> Copper cable splicing per pair (25 pair and larger). Labor and consumables to terminate and test media.		
105	Copper cable testing per pair (25 pair and larger)	Labor to perform continuity test.	BCEH0003
	<b>Bidder's Product Description:</b> Copper cable testing per pair (25 pair and larger). Labor to perform continuity test		
106	Tone, locate, test, document Circuit	Test and Tone on both sides of a single circuit, copper pair, between termination points.	BCEH0004
	<b>Bidder's Product Description:</b> Test and Tone on both sides of a single circuit, copper pair, between termination points.		
107	Install Fiber termination connector	Labor only.	BCEH0005
	<b>Bidder's Product Description:</b> Install Fiber termination connector. Labor only		
108	Splice Fiber per strand	Labor only. SM or MM.	BCEH0006
	<b>Bidder's Product Description:</b> Splice Fiber per strand. Labor only. SM or MM		
109	Fiber testing per strand	OTDR.	BCEH0007
	<b>Bidder's Product Description:</b> Fiber testing per strand. OTDR.		

	Feature Name	Feature Description	Bidder's Product Identifier
110	<b>Provide 4-pair CAT5e termination and testing</b>	Labor only. Includes BICSI standard testing (end to end).	BCEH0008
	<b>Bidder's Product Description:</b> Provide 4-pair CAT5e termination and testing. Labor only. Includes BICSI standard testing (end to end).		
111	<b>Terminate and test 4-pair Cat 6</b>	Labor only. Includes BICSI standard testing (end to end).	BCEH0009
	<b>Bidder's Product Description:</b> Terminate and test 4-pair Cat 6. Labor only. Includes BICSI standard testing (end to end).		
112	<b>Terminate 4-pair Cat 6</b>	Reterminate one end only jack or patch panel.	BCEH0010
	<b>Bidder's Product Description:</b> Labor only. Includes BICSI standard testing (end to end). Reterminate one end only jack or patch panel		
113	<b>Test 4-pair Cat 6</b>	Test only Includes BICSI standard testing (end to end)..	BCEH0011
	<b>Bidder's Product Description:</b> Test 4-pair Cat 6. Test only Includes BICSI standard testing (end to end)..		
114	<b>Terminate and test 4-pair Cat 6A</b>	Labor only. Includes BICSI standard testing (end to end)..	BCEH0012
	<b>Bidder's Product Description:</b> Terminate and test 4-pair Cat 6A. Labor only. Includes BICSI standard testing (end to end).		
115	<b>Terminate 4-pair Cat 6A</b>	Reterminate one end only jack or patch panel..	BCEH0013
	<b>Bidder's Product Description:</b> Terminate 4-pair Cat 6A. Reterminate one end only jack or patch panel.		
116	<b>Test 4-pair Cat 6A</b>	Test only Includes BICSI standard testing (end to end).	BCEH0014

	Feature Name	Feature Description	Bidder's Product Identifier
	<b>Bidder's Product Description:</b> Test 4-pair Cat 6A. Test only Includes BICSI standard testing (end to end).		
<b>Station Cabling, Cable Placement and Consumables Only - pull line in place</b>			
117	<b>Single 4-pair Cat 6 PVC cable for voice or data application</b>	Provide and Install single 4-pair Cat 6 PVC cable for voice or data application.	SCSH0001
	<b>Bidder's Product Description:</b> Provide and Install single 4-pair Cat 6 PVC cable for voice or data application.		
118	<b>Single 4-pair Cat 6 plenum cable for voice or data application</b>	Provide and Install single 4-pair Cat 6 plenum cable for voice or data application.	SCSH0002
	<b>Bidder's Product Description:</b> Provide and Install single 4-pair Cat 6 plenum cable for voice or data application.		
119	<b>Single 4-pair Cat 6 OSP cable for voice or data application</b>	Provide and Install single 4-pair Cat 6 OSP cable for voice or data application..	SCSH0003
	<b>Bidder's Product Description:</b> Provide and Install single 4-pair Cat 6A PVC cable for voice or data application.		
120	<b>Single 4-pair Cat 6A PVC cable for voice or data application</b>	Provide and Install single 4-pair Cat 6A PVC cable for voice or data application.	SCSH0004
	<b>Bidder's Product Description:</b> Provide and Install single 4-pair Cat 6A PVC cable for voice or data application.		
121	Single 4-pair Cat 6A plenum cable for voice or data application	Provide and Install single 4-pair Cat 6A plenum cable for voice or data application.	SCSH0005
	<b>Bidder's Product Description:</b> Provide and Install single 4-pair Cat 6A plenum cable for voice or data application.		

	Feature Name	Feature Description	Bidder's Product Identifier
122	Single 4-pair Cat 6A OSP cable for voice or data application	Provide and install single 4-pair Cat 6A OSP cable for voice or data application..	SCSH0006
	<b>Bidder's Product Description:</b> Provide and install single 4-pair Cat 6A OSP cable for voice or data application..		
<b>Additional Components (Material and Labor to install)</b>			
123	<b>One 24-port unloaded Cat 6A Patch Panel</b>	Provide and install one 24-port unloaded Cat 6A Patch Panel	SCMH0001
	<b>Bidder's Product Description:</b> Provide and install one 24-port unloaded Cat 6A Patch Panel		
124	<b>One 48-port unloaded Cat 6A Patch Panel</b>	Provide and install one 48-port unloaded Cat 6A Patch Panel	SCMH0002
	<b>Bidder's Product Description:</b> Provide and install one 48-port unloaded Cat 6A Patch Panel		
125	<b>New 24-port Cat 6 patch panel</b>	Provide and install new 24-port Cat 6 patch panel	SCMH0003
	<b>Bidder's Product Description:</b> Provide and install new 24-port Cat 6 patch panel		
126	<b>New 48-port Cat 6 patch panel</b>	Provide and install new 48-port Cat 6 patch panel	SCMH0004
	<b>Bidder's Product Description:</b> Provide and install new 48-port Cat 6 patch panel		
127	<b>New 24-port Cat 6A patch panel</b>	Provide and install new 24-port Cat 6A patch panel	SCMH0005
	<b>Bidder's Product Description:</b> Provide and install new 24-port Cat 6A patch panel		
128	<b>New 48-port Cat 6A patch panel</b>	Provide and install new 48-port Cat 6A patch panel	SCMH0006
	<b>Bidder's Product Description:</b> Provide and install new 48-port Cat 6A patch panel		
129	<b>New 12-port Cat 6 patch panel</b>	Provide and install new 12-port Cat 6 patch panel	SCMH0007

	Feature Name	Feature Description	Bidder's Product Identifier
	<b>Bidder's Product Description:</b> Provide and install new 12-port Cat 6 patch panel		
130	Face plate plastic	Provide and install face plate plastic	SCMH0008
	<b>Bidder's Product Description:</b> Provide and install new 12-port Cat 6 patch panel		
131	Modular furniture device plate	Provide and install modular furniture device plate	SCMH0009
	<b>Bidder's Product Description:</b> Provide and install new 12-port Cat 6 patch panel		
132	4-port stainless steel faceplate	Provide and install 4-port stainless steel faceplate	SCMH0010
	<b>Bidder's Product Description:</b> Provide and install 4-port stainless steel faceplate		
133	6-port stainless steel faceplate	Provide and install 6-port stainless steel faceplate	SCMH0011
	<b>Bidder's Product Description:</b> Provide and install 6-port stainless steel faceplate		
134	Cat 6 jack insert	Provide and install Cat 6 jack insert	SCMH0012
	<b>Bidder's Product Description:</b> Provide and install Cat 6 jack insert		
135	Cat 6A jack insert	Provide and install Cat 6A jack insert	SCMH0013
	<b>Bidder's Product Description:</b> Provide and install Cat 6A jack insert		
136	3' Cat 5e patch cord	Provide and install 3' Cat 5e patch cord	SCMH0014
	<b>Bidder's Product Description:</b> Provide and install 3' Cat 5e patch cord		
137	5' Cat 5e patch cord	Provide and install 5' Cat 5e patch cord	SCMH0015
	<b>Bidder's Product Description:</b> Provide and install 5' Cat 5e patch cord		
	7' Cat 5e patch cord	Provide and install 7' Cat 5e patch cord	SCMH0016

	Feature Name	Feature Description	Bidder's Product Identifier
138	<b>Bidder's Product Description:</b> Provide and install 7' Cat 5e patch cord		
139	10' Cat 5e patch cord	Provide and install 10' Cat 5e patch cord	SCMH0017
	<b>Bidder's Product Description:</b> Provide and install 10' Cat 5e patch cord		
140	3' Cat 6 patch cord	Provide and install 3' Cat 6 patch cord	SCMH0018
	<b>Bidder's Product Description:</b> Provide and install 3' Cat 6 patch cord		
141	5' Cat 6 patch cord	Provide and install 5' Cat 6 patch cord	SCMH0019
	<b>Bidder's Product Description:</b> Provide and install 5' Cat 6 patch cord		
142	7' Cat 6 patch cord	Provide and install 7' Cat 6 patch cord	SCMH0020
	<b>Bidder's Product Description:</b> Provide and install 7' Cat 6 patch cord		
143	10' Cat 6 patch cord	Provide and install 10' Cat 6 patch cord	SCMH0021
	<b>Bidder's Product Description:</b> Provide and install 10' Cat 6 patch cord		
144	Velcro Ties (roll 25 yards)	Provide and install Velcro Ties (roll 25 yards)	SCMH0022
	<b>Bidder's Product Description:</b> Provide and install Velcro Ties (roll 25 yards)		
145	Fiber splice closure	Provide and install Fiber splice closure. OSP rated	SCMH0023
	<b>Bidder's Product Description:</b> Provide and install Fiber splice closure. OSP rated		
146	Fiber splice tray	Provide and install Fiber splice tray	SCMH0024
	<b>Bidder's Product Description:</b> Provide and install Fiber splice tray		
147	Copper splice case 4.0x25	Provide and install Copper splice case 4.0x25. OSP rated	SCMH0025

	Feature Name	Feature Description	Bidder's Product Identifier
	<b>Bidder's Product Description:</b> Provide and install Copper splice case 4.0x25. OSP rated		
148	<b>Copper splice case 6.5x28</b>	Provide and install Copper splice case 6.5x28. OSP rate	SCMH0026
	<b>Bidder's Product Description:</b> Provide and install Copper splice case 6.5x28. OSP rate		
149	<b>Provide Copper splice module 25 pair (material only)</b>	Provide Copper splice module 25 pair (material only)	SCMH0027
	<b>Bidder's Product Description:</b> Provide Copper splice module 25 pair (material only)		
<b>Pathway</b>			
150	<b>Rod &amp; rope conduit</b>	Pull string or rope provided, rope will be sized appropriately to conduit size	PHHS0001
	<b>Bidder's Product Description:</b> Pull string or rope provided, rope will be sized appropriately to conduit size		
151	<b>Rod, rope and place up to 3 1" innerducts in same conduit</b>		PHHS0002
	<b>Bidder's Product Description:</b> Rod, rope and place up to 3 1" innerducts in same conduit		
152	<b>One stick (10') of 1" EMT &amp; Three (3) 2-hole straps</b>	Provide and install one stick (10') of 1" EMT & Three (3) 2-hole straps	PHHS0003
	<b>Bidder's Product Description:</b> Provide and install one stick (10') of 1" EMT & Three (3) 2-hole straps		
153	<b>One stick (10') of 1 1/4" EMT &amp; three (3) 2-hole straps</b>	Provide and install one stick (10') of 1 1/4" EMT & three (3) 2-hole straps	PHHS0004
	<b>Bidder's Product Description:</b> Provide and install one stick (10') of 1 1/4" EMT & three (3) 2-hole straps		

	Feature Name	Feature Description	Bidder's Product Identifier
154	<b>One stick (10') of 2" EMT &amp; three (3) 2-hole straps</b>	Provide and install one stick (10') of 2" EMT & three (3) 2-hole straps	PHHS0005
	<b>Bidder's Product Description:</b> Provide and install one stick (10') of 2" EMT & three (3) 2-hole straps		
155	<b>One stick (10') of 1" Rigid &amp; three (3) 2-hole straps</b>	Provide and install one stick (10') of 1" Rigid & three (3) 2-hole straps	PHHS0006
	<b>Bidder's Product Description:</b> Provide and install one stick (10') of 1" Rigid & three (3) 2-hole straps		
156	<b>One stick (10') of 1 1/4" Rigid &amp; three (3) 2-hole straps</b>	Provide and install one stick (10') of 1 1/4" Rigid & three (3) 2-hole straps	PHHS0007
	<b>Bidder's Product Description:</b> Provide and install one stick (10') of 1 1/4" Rigid & three (3) 2-hole straps		
157	<b>One stick (10') of 2" Rigid &amp; three (3) 2-hole straps</b>	Provide and install one stick (10') of 2" Rigid & three (3) 2-hole straps	PHHS0008
	<b>Bidder's Product Description:</b> Provide and install one stick (10') of 1 1/4" Rigid & three (3) 2-hole straps		
158	<b>One 1" EMT Stub up from device box to above ceiling including straps, connector and bushing</b>	Provide and install one 1" EMT Stub up from device box to above ceiling including straps, connector and bushing	PHHS0009
	<b>Bidder's Product Description:</b> Provide and install one stick (10') of 1 1/4" Rigid & three (3) 2-hole straps		
159	<b>Surface mount box</b>	Provide and install Surface mount box	PHHS0010
	<b>Bidder's Product Description:</b> Provide and install Surface mount box		
160	<b>1" 2-hole strap, EMT</b>	Provide and install 1" 2-hole strap, EMT	PHHS0011

	Feature Name	Feature Description	Bidder's Product Identifier
	<b>Bidder's Product Description:</b> Provide and install 1" 2-hole strap, EMT		
161	1" bushing, EMT	Provide and install 1" bushing, EMT	PHHS0012
	<b>Bidder's Product Description:</b> Provide and install 1" bushing, EMT		
162	1" compression connector, EMT	Provide and install 1" compression connector, EMT	PHHS0013
	<b>Bidder's Product Description:</b> Provide and install 1" compression connector, EMT		
163	1" compression coupler, EMT	Provide and install 1" compression coupler, EMT	PHHS0014
	<b>Bidder's Product Description:</b> Provide and install 1" compression coupler, EMT		
164	1" unistrut clamp, EMT	Provide and install 1" unistrut clamp, EMT	PHHS0015
	<b>Bidder's Product Description:</b> Provide and install 1" compression coupler, EMT		
165	2" 2-hole strap, EMT	Provide and install 2" 2-hole strap, EMT	PHHS0016
	<b>Bidder's Product Description:</b> Provide and install 2" 2-hole strap, EMT		
166	2" bushing, EMT	Provide and install 2" bushing, EMT	PHHS0017
	<b>Bidder's Product Description:</b> Provide and install 2" bushing, EMT		
167	2" compression connector, EMT	Provide and install 2" compression connector, EMT	PHHS0018
	<b>Bidder's Product Description:</b> Provide and install 2" compression connector, EMT		
168	2" compression coupler, EMT	Provide and install 2" compression coupler, EMT	PHHS0019
	<b>Bidder's Product Description:</b> Provide and install 2" compression coupler, EMT		
169	2" unistrut clamp, EMT	Provide and install 2" compression coupler, EMT	PHHS0020

	Feature Name	Feature Description	Bidder's Product Identifier
	<b>Bidder's Product Description:</b> Provide and install 2" compression coupler, EMT		
170	3" 2-hole strap, EMT	Provide and install 3" 2-hole strap, EMT	PHHS0021
	<b>Bidder's Product Description:</b> Provide and install 3" 2-hole strap, EMT		
171	3" bushing, EMT	Provide and install 3" bushing, EMT	PHHS0022
	<b>Bidder's Product Description:</b> Provide and install 3" bushing, EMT		
172	3" compression connector, EMT	Provide and install 3" compression connector, EMT	PHHS0023
	<b>Bidder's Product Description:</b> Provide and install 3" compression connector, EMT		
173	3" compression coupler, EMT	Provide and install 3" compression coupler, EMT	PHHS0024
	<b>Bidder's Product Description:</b> Provide and install 3" compression connector, EMT		
174	3" unistrut clamp, EMT	Provide and install 3" unistrut clamp, EMT	PHHS0025
	<b>Bidder's Product Description:</b> Provide and install 3" unistrut clamp, EMT		
175	4" 2-hole strap, EMT	Provide and install 4" 2-hole strap, EMT	PHHS0026
	<b>Bidder's Product Description:</b> Provide and install 4" 2-hole strap, EMT		
176	4" bushing, EMT	Provide and install 4" bushing, EMT	PHHS0027
	<b>Bidder's Product Description:</b> Provide and install 4" 2-hole strap, EMT		
177	4" compression connector, EMT	Provide and install 4" compression connector, EMT	PHHS0028
	<b>Bidder's Product Description:</b> Provide and install 4" 2-hole strap, EMT		
178	4" compression coupler, EMT	Provide and install 4" compression coupler, EMT	PHHS0029

	Feature Name	Feature Description	Bidder's Product Identifier
	<b>Bidder's Product Description:</b> Provide and install 4" 2-hole strap, EMT		
179	4" unistrut clamp, EMT	Provide and install 4" unistrut clamp, EMT	PHHS0030
	<b>Bidder's Product Description:</b> Provide and install 4" 2-hole strap, EMT		
180	1" 2-hole strap, Rigid	Provide and install 1" 2-hole strap, Rigid	PHHS0031
	<b>Bidder's Product Description:</b> Provide and install 4" 2-hole strap, EMT		
181	1" bushing, Rigid	Provide and install 1" bushing, Rigid	PHHS0032
	<b>Bidder's Product Description:</b> Provide and install 4" 2-hole strap, EMT		
182	1" compression connector, Rigid	Provide and install 1" compression connector, Rigid	PHHS0033
	<b>Bidder's Product Description:</b> Provide and install 4" 2-hole strap, EMT		
183	1" compression coupler, Rigid	Provide and install 1" compression coupler, Rigid	PHHS0034
	<b>Bidder's Product Description:</b> Provide and install 1" compression coupler, Rigid		
184	1" unistrut clamp, Rigid	Provide and install 1" unistrut clamp, Rigid	PHHS0035
	<b>Bidder's Product Description:</b> Provide and install 1" unistrut clamp, Rigid		
185	2" 2-hole strap, Rigid	Provide and install 2" 2-hole strap, Rigid	PHHS0036
	<b>Bidder's Product Description:</b> Provide and install 2" 2-hole strap, Rigid		
186	2" bushing, Rigid	Provide and install 2" bushing, Rigid	PHHS0037
	<b>Bidder's Product Description:</b> Provide and install 2" bushing, Rigid		
187	2" compression connector, Rigid	Provide and install 2" compression connector, Rigid	PHHS0038

	Feature Name	Feature Description	Bidder's Product Identifier
	<b>Bidder's Product Description:</b> Provide and install 2" compression connector, Rigid		
188	2" compression coupler, Rigid	Provide and install 2" compression coupler, Rigid	PHHS0039
	<b>Bidder's Product Description:</b> Provide and install 2" compression coupler, Rigid		
189	2" unistrut clamp, Rigid	Provide and install 2" unistrut clamp, Rigid	PHHS0040
	<b>Bidder's Product Description:</b> Provide and install 2" unistrut clamp, Rigid		
190	2" J-Hook w/multipurpose clip	Provide and install 2" J-Hook w/multipurpose clip	PHHS0041
	<b>Bidder's Product Description:</b> Provide and install 2" J-Hook w/multipurpose clip		
191	Bell box (raco 5387-0)	Provide and install Bell box (raco 5387-0)	PHHS0042
	<b>Bidder's Product Description:</b> Provide and install Bell box (raco 5387-0)		
192	8"x8"x6" pull box NEMA 1	Provide and install 8"x8"x6" pull box NEMA 1	PHHS0043
	<b>Bidder's Product Description:</b> Provide and install 8"x8"x6" pull box NEMA 1		
193	12"x12"x8" NEMA 1 junction box NEMA 1	Provide and install 12"x12"x8" NEMA 1 junction box NEMA 1	PHHS0044
	<b>Bidder's Product Description:</b> Provide and install 12"x12"x8" NEMA 1 junction box NEMA 1		
194	12"x12"x8" NEMA 1 junction box NEMA 3	Provide and install 12"x12"x8" NEMA 1 junction box NEMA 3	PHHS0045
	<b>Bidder's Product Description:</b> Provide and install 12"x12"x8" NEMA 1 junction box NEMA 3		
195	Install customer provided WAP (Wireless Access Point); (does not	Install customer provided WAP (Wireless Access Point); (does not include configuration).	PHHS0046

	Feature Name	Feature Description	Bidder's Product Identifier
	include configuration)		
	<b>Bidder's Product Description:</b> Provide and install 12"x12"x8" NEMA 1 junction box NEMA 3		
196	<b>WAP (Wireless Access Point) Enclosure</b>	Provide and install WAP (Wireless Access Point) Enclosure	PHHS0047
	<b>Bidder's Product Description:</b> Provide and install WAP (Wireless Access Point) Enclosure		
197	<b>Install customer provided Camera (does not include configuration)</b>	Install customer provided Camera (does not include configuration).	PHHS0048
	<b>Bidder's Product Description:</b> Provide and install WAP (Wireless Access Point) Enclosure		
198	<b>Install customer provided paging speaker Drop Tile Ceiling</b>	Includes installation hardware; speaker is not included	PHHS0049
	<b>Bidder's Product Description:</b> Install customer provided paging speaker Drop Tile Ceiling. Includes installation hardware; speaker is not included		
199	<b>Unistrut slotted 7/8"</b>	Provide and install Unistrut slotted 7/8"	PHHS0050
	<b>Bidder's Product Description:</b> Includes installation hardware; speaker is not included		
200	<b>1" unistrut straps</b>	Provide and install 1" unistrut straps	PHHS0051
	<b>Bidder's Product Description:</b> Provide and install 1" unistrut straps		
201	<b>2" unistrut straps</b>	Provide and install 2" unistrut straps	PHHS0052
	<b>Bidder's Product Description:</b> Provide and install 1" unistrut straps		
202	<b>1" EMT sleeve (core or penetration not included)</b>	Provide and install 1" EMT sleeve (core or penetration not included)	PHHS0053

	Feature Name	Feature Description	Bidder's Product Identifier
	<b>Bidder's Product Description:</b> Provide and install 1" EMT sleeve (core or penetration not included)		
203	<b>2" EMT sleeve (core or penetration not included)</b>	Provide and install 2" EMT sleeve (core or penetration not included)	PHHS0054
	<b>Bidder's Product Description:</b> Provide and install 2" EMT sleeve (core or penetration not included)		
204	<b>3" EMT sleeve (core or penetration not included)</b>	Provide and install 3" EMT sleeve (core or penetration not included)	PHHS0055
	<b>Bidder's Product Description:</b> Provide and install 3" EMT sleeve (core or penetration not included)		
205	<b>4" EMT sleeve (core or penetration not included)</b>	Provide and install 4" EMT sleeve (core or penetration not included)	PHHS0056
	<b>Bidder's Product Description:</b> Provide and install 4" EMT sleeve (core or penetration not included)		
206	<b>8"x8"x6" pull box NEMA R3</b>	Provide and install 8"x8"x6" pull box NEMA R3	PHHS0057
	<b>Bidder's Product Description:</b> Provide and install 4" EMT sleeve (core or penetration not included)		
<b>Raceway</b>			
207	<b>Raceway 5-foot base ivory and cover 2300BAC plastic (2 1/4" x 11/16")</b>	Provide and install raceway 5-foot base ivory and cover 2300BAC plastic (2 1/4" x 11/16")	RCWS0001
	<b>Bidder's Product Description:</b> Provide and install raceway 5-foot base ivory and cover 2300BAC plastic (2 1/4" x 11/16")		

	Feature Name	Feature Description	Bidder's Product Identifier
208	Raceway Cover clip 2306	Provide and install raceway Cover clip 2306	RCWS0002
	Bidder's Product Description: Provide and install raceway Cover clip 2306		
209	Raceway Internal elbow 2317DF0	Provide and install raceway External bend 2318DF0	RCWS0003
	Bidder's Product Description: Provide and install raceway External bend 2318DF0		
210	Raceway External bend 2318DF0	Provide and install raceway External bend 2318DF0	RCWS0004
	Bidder's Product Description: Provide and install raceway External bend 2318DF0		
211	Raceway Flat elbow 2311DF0	Provide and install raceway Flat elbow 2311DF0	RCWS0005
	Bidder's Product Description: Provide and install raceway Flat elbow 2311DF0		
212	Raceway Wire clip ivory 2300WC	Provide and install raceway Wire clip ivory 2300WC	RCWS0006
	Bidder's Product Description: Provide and install raceway Wire clip ivory 2300WC		
213	Raceway Blank end fitting 2310B	Provide and install raceway Blank end fitting 2310B	RCWS0007
	Bidder's Product Description: Provide and install raceway Blank end fitting 2310B		
214	Raceway Entrance fitting 2310A	Provide and install raceway Entrance fitting 2310A	RCWS0008
	Bidder's Product Description: Provide and install raceway Entrance fitting 2310A		
215	Raceway Tee 2315	Provide and install raceway Tee 2315	RCWS0009
	Bidder's Product Description: Provide and install raceway Tee 2315		
<b>Other Tasks</b>			
216	Core Drilling, 1" hole	Core Drilling, 1" hole	CDOS0001

	Feature Name	Feature Description	Bidder's Product Identifier
	<b>Bidder's Product Description:</b> Core Drilling, 1" hole		
217	Core Drilling, 2" hole	Core Drilling, 2" hole	CDOS0002
	<b>Bidder's Product Description:</b> Core Drilling, 2" hole		
218	Core Drilling, 3" hole	Core Drilling, 3" hole	CDOS0003
	<b>Bidder's Product Description:</b> Core Drilling, 3" hole		
219	Core Drilling, 4" hole	Core Drilling, 4" hole	CDOS0004
	<b>Bidder's Product Description:</b> Core Drilling, 4" hole		
220	Wall penetration - drywall	Wall penetration - drywall	PNTW0002
	<b>Bidder's Product Description:</b> Wall penetration - drywall		
221	Scissor Lift Rental (20') (Includes daily rate, pickup and delivery fees)	For contractor use in support of SRI services.	SCLR0002
	<b>Bidder's Product Description:</b> Scissor Lift Rental (20') (Includes daily rate, pickup and delivery fees)		
222	Fire Seal Penetration, 1" hole	Fire Seal Penetration, 1" hole	FSPS0001
	<b>Bidder's Product Description:</b> Fire Seal Penetration, 1" hole		
223	Fire Seal Penetration, 2" hole	Fire Seal Penetration, 2" hole	FSPS0002
	<b>Bidder's Product Description:</b> Fire Seal Penetration, 2" hole		
224	Fire Seal Penetration, 3" hole	Fire Seal Penetration, 3" hole	FSPS0003

	Feature Name	Feature Description	Bidder's Product Identifier
	<b>Bidder's Product Description:</b> Fire Seal Penetration, 3" hole		
225	Fire Seal Penetration, 4" hole	Fire Seal Penetration, 4" hole	FSPS0004
	<b>Bidder's Product Description:</b> Fire Seal Penetration, 4" hole		
226	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)	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)	GRHS0001
	<b>Bidder's Product Description:</b> 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)		
227	Installation of equipment ground (Includes all material, terminations and labor for each applicable equipment and the installation # 6 ground wire .	Installation of equipment ground (Includes all material, terminations and labor for each applicable equipment and the installation # 6 ground wire.	GRHS0002
	<b>Bidder's Product Description:</b> Installation of equipment ground (Includes all material, terminations and labor for each applicable equipment and the installation # 6 ground wire.		
228	Relocate existing telephone handset (same HC/TC on existing cabling) - includes cross-connect, testing, and documentation	Relocate existing telephone handset (same HC/TC on existing cabling) - includes cross-connect, testing, and documentation	GRHS0003

	Feature Name	Feature Description	Bidder's Product Identifier
	<b>Bidder's Product Description:</b> Relocate existing telephone handset (same HC/TC on existing cabling) - includes cross-connect, testing, and documentation		
229	<b>Install new cross-connect</b>	Install new cross-connect	CONH0000
	<b>Bidder's Product Description:</b> Install new cross-connect		

### 5.4.5 SECURE CLOUD INTERCONNECT (SCI)

Secure Cloud Interconnect (SCI) is offered in two different plans to include Aggregation Shared Plan Service and Non-Aggregation Plan Service.

#### Secure Cloud Interconnect (SCI) Aggregation Shared Usage Plan Service

Verizon SCI Defined Usage Aggregation Shared Plan Service provides the Virtual Private Connection over an existing Customer Verizon MPLS connection from their location to a Verizon Certified Cloud Service Provider (CSP). The Verizon SCI Defined Usage Aggregation Shared Plan Service enables Customer to establish a connection with redundant Provider Edge Router link (except IBM Layer CSP) to the Verizon Certified CSP Data Center. The SCI Defined Usage Aggregation Shared Plan provides the Customer the ability to send and receive up to Defined Usage Plan of data at a fixed monthly plan rate. This aggregation shared plan usage can be shared within the USA across multiple CSP's, multiple Virtual Private Connections and by Verizon's customer SCI billing account number (single customer of record). Any data usage above the Defined Usage Plan per month will be charged an overage fee identified in the Defined Usage of Per GB Overage Plan. Customer can move between plans as of the first of the month with a five business day notice prior to the end of the month. As part of the Service, Verizon will enroll Customer into the SCI service. Customer is responsible for enrollment with the CSP and any CSP subscription charges. The Customer is responsible to provide Verizon IP Addresses to the CSP, when applicable. Verizon will provision a Virtual Routing and Forwarding (VRF) from the existing MPLS Verizon Port to the appropriate CSP Data Center SCI virtual port. Verizon SCI service responsibilities are up to the SCI Virtual Interface Optical Cross Connect. MPLS service is required to connect to Verizon SCI service.

#### Secure Cloud Interconnect (SCI) Aggregation Shared Overage Plan Service

Verizon SCI Aggregation Shared Overage Plan Service provides any overage above the SCI defined usage plan. Usage above the monthly plan will incur a per GB charge.

#### Secure Cloud Interconnect (SCI) Non-Aggregation Usage Plan Service

Verizon SCI Defined Usage Non-Aggregation Plan Service provides the Virtual Private Connection over an existing Customer Verizon MPLS connection from their location to a Verizon Certified Cloud Service Provider (CSP). This non-aggregation plan is charged by CSP location, per CSP, and per SCI Connection which is defined by the CSP and Virtual Private Connections (VPC) required by customer. The Verizon SCI Defined Usage Non-Aggregation Plan Service enables Customer to establish a connection with

redundant Provider Edge Router link (except IBM Layer CSP) to the Verizon Certified CSP Data Center. The SCI Defined Usage Non-Aggregation Plan provides the Customer the ability to send and receive up to Defined Usage Plan of data by CSP location, per CSP, and per SCI Connection which is defined by the CSP and Virtual Private Connections (VPC) required by customer monthly plan rate. Any data usage above the Defined Usage Plan per month will be charged an overage fee identified in the Defined Usage of Per GB Overage Plan. Customer can move between plans as of the first of the month with a five business day notice prior to the end of the month. As part of the Service, Verizon will enroll Customer into the SCI service. Customer is responsible for enrollment with the CSP and any CSP subscription charges. The Customer is responsible to provide Verizon IP Addresses to the CSP, when applicable. Verizon will provision a Virtual Routing and Forwarding (VRF) from the existing MPLS Verizon Port to the appropriate CSP Data Center SCI virtual port. Verizon SCI service responsibilities are up to the SCI Virtual Interface Optical Cross Connect. MPLS service is required to connect to Verizon SCI service.

**Secure Cloud Interconnect (SCI) Unlimited Non-Aggregation Usage Plan**

Verizon SCI Unlimited Usage Plan Service provides the Virtual Private Connection over an existing Customer Verizon MPLS connection from their location to a Verizon Certified Cloud Service Provider (CSP). This non-aggregation plan is charged by CSP location, per CSP, and per SCI Connection which is defined by the CSP and Virtual Private Connections (VPC) required by customer. The Verizon SCI Unlimited Usage Non-Aggregation Plan Service enables Customer to establish a connection with redundant Provider Edge Router link (except IBM Layer CSP) to the Verizon Certified CSP Data Center. The SCI Unlimited Usage Non-Aggregation Plan provides the Customer the ability to send and receive as much data as required at a fixed monthly plan rate with no additional per gigabyte charges for usage by CSP location, per CSP, and per SCI Connection which is defined by the CSP and Virtual Private Connections (VPC) required by customer monthly plan rate. Customer can move between plans as of the first of the month with a five business day notice prior to the end of the month. As part of the Service, Verizon will enroll Customer into the SCI service. Customer is responsible for enrollment with the CSP and any CSP subscription charges. Customer is responsible to provide Verizon IP Addresses to the CSP, when applicable. Verizon will provision a Virtual Routing and Forwarding (VRF) from the existing MPLS Verizon Port to the appropriate CSP Data Center SCI virtual port. Verizon SCI service responsibilities are up to the SCI Virtual Interface Optical Cross Connect. MPLS service is required to connect to Verizon SCI service. A one-time set up fee will apply for usage only.

Table 5.4.5 Secure Cloud Interconnect (SCI)

	Feature Name	Feature Description	Bidder's Product Identified
1	<b>Secure Cloud Interconnect (SCI) Non-Aggregation Usage Only Plan Service</b>	SCI Non-Aggregation Usage Only Plan Service charged on a Per GB of usage basis.	SCIU0000
2	<b>Secure Cloud Interconnect (SCI) 1,000 Gigabyte (GB) Aggregation</b>	SCI 1,000 GB Aggregation Shared Plan Service.	SCIA0001

	Feature Name	Feature Description	Bidder's Product Identified
	Shared Plan Service		
3	Secure Cloud Interconnect (SCI) 1,000 Gigabyte (GB) Aggregation Shared Overage Plan Service	SCI 1,000 GB Aggregation Shared Overage Plan Service provides any overage above the SCI 1,000 GB Plan.	SCAS0001
4	Secure Cloud Interconnect (SCI) 1,000 Gigabyte (GB) Non-Aggregation Plan Service	SCI 1,000 GB Non-Aggregation Plan Service.	SCIC0001
5	Secure Cloud Interconnect (SCI) 1,000 Gigabyte (GB) Non-Aggregation Overage Plan Service per GB	SCI 1,000 GB Non-Aggregation Overage Plan Service provides any overage above the SCI 1,000 GB Plan.	SCIO0001
6	Secure Cloud Interconnect (SCI) 3,000 Gigabyte (GB) Aggregation Shared Plan Service	SCI 3,000 GB Aggregation Shared Plan Service.	SCIA0003
7	Secure Cloud Interconnect (SCI) 3,000 Gigabyte (GB) Aggregation Shared Overage Plan Service	SCI 3,000 GB Aggregation Shared Overage Plan Service provides any overage above the SCI 3,000 GB Plan.	SCAS0003
8	Secure Cloud Interconnect (SCI) 3,000 Gigabyte (GB) Non-Aggregation Plan Service	SCI 3,000 GB Non-Aggregation Plan Service.	SCIC0003

	Feature Name	Feature Description	Bidder's Product Identified
9	<b>Secure Cloud Interconnect (SCI) 3,000 Gigabyte (GB) Non-Aggregation Overage Plan Service per GB</b>	SCI 3,000 GB Non-Aggregation Overage Plan Service provides any overage above the SCI 3,000 GB Plan.	SCIO0003
10	<b>Secure Cloud Interconnect (SCI) 10,000 Gigabyte (GB) Aggregation Shared Plan Service</b>	SCI 10,000 GB Aggregation Shared Plan Service.	SCIA0010
11	<b>Secure Cloud Interconnect (SCI) 10,000 Gigabyte (GB) Aggregation Shared Overage Plan Service</b>	SCI 10,000 GB Aggregation Shared Overage Plan Service provides any overage above the SCI 10,000 GB Plan.	SCAS0010
12	<b>Secure Cloud Interconnect (SCI) 10,000 Gigabyte (GB) Non-Aggregation Plan Service</b>	SCI 10,000 GB Non-Aggregation Plan Service.	SCIC0010
13	<b>Secure Cloud Interconnect (SCI) 10,000 Gigabyte (GB) Non-Aggregation Overage Plan Service per GB</b>	SCI 10,000 GB Non-Aggregation Overage Plan Service provides any overage above the SCI 10,000 GB Plan.	SCIO0010
14	<b>Secure Cloud Interconnect (SCI) 30,000 Gigabyte (GB) Aggregation Shared Plan Service</b>	SCI 30,000 GB Aggregation Shared Plan Service.	SCIA0030

	Feature Name	Feature Description	Bidder's Product Identified
15	<b>Secure Cloud Interconnect (SCI) 30,000 Gigabyte (GB) Aggregation Shared Overage Plan Service</b>	SCI 30,000 GB Aggregation Shared Overage Plan Service provides any overage above the SCI 30,000 GB Plan.	SCAS0030
16	<b>Secure Cloud Interconnect (SCI) 30,000 Gigabyte (GB) Non-Aggregation Plan Service</b>	SCI 30,000 GB Non-Aggregation Plan Service.	SCIC0030
17	<b>Secure Cloud Interconnect (SCI) 30,000 Gigabyte (GB) Non-Aggregation Overage Plan Service per GB</b>	SCI 30,000 GB Non-Aggregation Overage Plan Service provides any overage above the SCI 30,000 GB Plan.	SCIO0030
18	<b>Secure Cloud Interconnect (SCI) 45,000 Gigabyte (GB) Aggregation Shared Plan Service</b>	SCI 45,000 GB Aggregation Shared Plan Service.	SCIA0045
19	<b>Secure Cloud Interconnect (SCI) 45,000 Gigabyte (GB) Aggregation Shared Overage Plan Service</b>	SCI 45,000 GB Aggregation Shared Overage Plan Service provides any overage above the SCI 45,000 GB Plan.	SCAS0045
20	<b>Secure Cloud Interconnect (SCI) 45,000 Gigabyte (GB) Non-Aggregation Plan Service</b>	SCI 45,000 GB Non-Aggregation Plan Service.	SCIC0045

	Feature Name	Feature Description	Bidder's Product Identified
21	<b>Secure Cloud Interconnect (SCI) 45,000 Gigabyte (GB) Non-Aggregation Overage Plan Service per GB</b>	SCI 45,000 GB Non-Aggregation Overage Plan Service provides any overage above the SCI 45,000 GB Plan.	SCIO0045
22	<b>Secure Cloud Interconnect (SCI) 100,000 Gigabyte (GB) Aggregation Shared Plan Service</b>	SCI 100,000 GB Aggregation Shared Plan Service.	SCIA0100
23	<b>Secure Cloud Interconnect (SCI) 100,000 Gigabyte (GB) Aggregation Shared Overage Plan Service</b>	SCI 100,000 GB Aggregation Shared Overage Plan Service provides any overage above the SCI 100,000 GB Plan.	SCAS0100
24	<b>Secure Cloud Interconnect (SCI) 150,000 Gigabyte (GB) Aggregation Shared Plan Service</b>	SCI 150,000 GB Aggregation Shared Plan Service.	SCIA0150
25	<b>Secure Cloud Interconnect (SCI) 150,000 Gigabyte (GB) Aggregation Shared Overage Plan Service</b>	SCI 150,000 GB Aggregation Shared Overage Plan Service provides any overage above the SCI 150,000 GB Plan.	SCAS0150
26	<b>Secure Cloud Interconnect (SCI) 300,000 Gigabyte (GB) Aggregation Shared Plan Service</b>	SCI 300,000 GB Aggregation Shared Plan.	SCIA0300

	Feature Name	Feature Description	Bidder's Product Identified
27	<b>Secure Cloud Interconnect (SCI) 300,000 Gigabyte (GB) Aggregation Shared Overage Plan Service</b>	SCI 300,000 GB Aggregation Shared Overage Plan Service provides any overage above the SCI 300,000 GB Plan.	SCAS0300
28	<b>Secure Cloud Interconnect (SCI) 500,000 Gigabyte (GB) Aggregation Shared Plan Service</b>	SCI 500,000 GB Aggregation Shared Plan Service.	SCIA0500
29	<b>Secure Cloud Interconnect (SCI) 500,000 Gigabyte (GB) Aggregation Shared Overage Plan Service</b>	SCI 500,000 GB Aggregation Shared Overage Plan Service provides any overage above the SCI 500,000 GB Plan.	SCAS0500
30	<b>Secure Cloud Interconnect (SCI) 700,000 Gigabyte (GB) Aggregation Shared Plan Service</b>	SCI 700,000 GB Aggregation Shared Plan Service.	SCIA0700
31	<b>Secure Cloud Interconnect (SCI) 700,000 Gigabyte (GB) Aggregation Shared Overage Plan Service</b>	SCI 700,000 GB Aggregation Shared Overage Plan Service provides any overage above the SCI 700,000 GB Plan.	SCAS0700
32	<b>Secure Cloud Interconnect (SCI) 1,000,000 Gigabyte (GB) Aggregation Shared Plan Service</b>	SCI 1,000,000 GB Aggregation Shared Plan Service.	SCIA1000

	Feature Name	Feature Description	Bidder's Product Identified
33	<b>Secure Cloud Interconnect (SCI) 1,000,000 Gigabyte (GB) Aggregation Shared Overage Plan Service</b>	SCI 1,000,000 GB Aggregation Shared Overage Plan Service provides any overage above the SCI 1,000,000 GB Plan.	SCAS1000
34	<b>Secure Cloud Interconnect (SCI) Unlimited Gigabyte (GB) Non-Aggregation Plan Service</b>	Secure Cloud Interconnect (SCI) Unlimited Gigabyte (GB) Non-Aggregation Plan Service	SCIN0000

## 5.5 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 3 CMO 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.

### 5.5.1 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 shall include source of data and define the points of measurement within the system, application, or network;
4. Service(s) - All applicable Categories or Subcategories will be listed in each SLA;
5. Objective(s) – Defines the SLA performance goal/parameters; and,
6. Rights and Remedies
  - a. Per Occurrence: Rights and remedies are paid on a per event basis during the bill cycle; and,
  - b. 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 an invoice credit or refund when an 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 the Requirement and shall meet or exceed it? Yes  No \_\_\_\_\_**

### **5.5.2 TECHNICAL REQUIREMENTS VERSUS SLA OBJECTIVES**

*Sections 5.2 (Managed Internet Services), 5.2.7 (Network Disaster/Operational Recovery) and 5.4 (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 (Section 5.5) are minimum parameters which the Contractor shall be held accountable for all rights and remedies throughout Contract Term.*

**Bidder understands the Requirement and shall meet or exceed it? Yes  No \_\_\_\_\_**

### **5.5.3 TWO METHODS OF OUTAGE REPORTING: CUSTOMER OR CONTRACTOR**

*There are two (2) methods in which CALNET 3 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 (IFB STPD 12-001-B Business Requirements Section B.9.4).*

*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 (IFB STPD 12-001-B Business Requirements Section B.9.4) and monitor and report to Customer until service is restored.*

**Bidder understands the Requirement and shall meet or exceed it? Yes  No \_\_\_\_\_**

### **5.5.4 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 (1) specific objective level they are committing to for each service in space provided in the "Objective" section of each SLA description.*

**Bidder understands the Requirement and shall meet or exceed it? Yes  No \_\_\_\_\_**

### **5.5.5 CONTRACTOR SLA MANAGEMENT PLAN**

*Within 90 calendar days of Contract award, the Contractor shall provide CALNET 3 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 (IFB STPD 12-001-B Business Requirements Section B.9.5). The Contractor shall include a sample report in accordance with IFB-B Business Requirements Section B.9.5 (SLA Reports) for the following: SLA Service Performance Report (Section IFB STPD 12-001-B Business Requirements Section B.9.5.1), SLA Provisioning Report (Section IFB STPD 12-001-B Business Requirements Section B.9.5.2), and SLA Catastrophic Outage Reports (Section IFB STPD 12-001-B Business Requirements Section B.9.5.3). The Contractor shall commit to a monthly due date. The reports shall be provided to the CALNET 3 CMO via the Private Oversight Website (IFB STPD 12-001-B Business Requirements Section B.9.2);*
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 3 CMO; 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 3 CMO.*

**Bidder understands the Requirement and shall meet or exceed it? Yes  No**

### **5.5.6 TECHNICAL SLA GENERAL REQUIREMENTS**

*The Contractor shall adhere to the following general requirements which apply to all CALNET 3 Technical SLAs (Section 5.5.8):*

1. *With the exception of the Provisioning SLA, the total SLA rights and remedies for any given month shall not exceed the sum of 100 percent 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 (1) 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 3 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;*
5. *TMRC rights and remedies shall include the service, option(s), and feature(s) charges;*
6. *The Contractor shall proactively and continuously monitor and measure all Technical SLA objectives;*
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;*
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 3 CMO for possible inclusion via amendments;*

9. *The Contractor shall apply CALNET 3 SLAs and remedies to services provided in geographic areas which the Bidder has committed to provide service. ;*
10. *The election by CALNET 3 CMO of any SLA remedy covered by this Contract shall not exclude or limit CALNET 3 CMO's 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 (IFB STPD 12-001-B Business Requirements Section B.3.4.2) and/or the CALNET 3 CMO Escalation Process (IFB STPD 12-001-B Business Requirements Section B.3.4.1) 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 24x365 for CALNET 3 services;*
15. *SLAs apply 24x365 unless SLA specifies an exception;*
16. *Contractor invoices shall clearly cross reference the SLA credit to the service Circuit ID in accordance with IFB STPD 12-001-B Business Requirements Section B.5.1 (Billing and Invoicing Requirements, #14);*
17. *The Contractor shall provide a CALNET 3 SLA Manager responsible for CALNET 3 SLA compliance. The SLA Manager shall attend regular meetings and be available upon request to address CALNET 3 CMO SLA oversight, report issues, and problem resolution concerns. The CALNET 3 SLA Manager shall also coordinate SLA support for Customer SLA inquiries and issue resolution;*
18. *The Contractor shall provide Customer and CALNET 3 CMO 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 3 Customer.*

**Bidder understands the Requirement and shall meet or exceed it? Yes  No**

### **5.5.7 TROUBLE TICKET STOP CLOCK CONDITIONS**

*The following conditions shall be allowed to stop the trouble ticket Outage Duration for CALNET 3 Contractor trouble tickets. The Contractor shall document the trouble ticket Outage Duration using the Stop Clock Condition (SCC) listed in Table 5.5.7 and include start and stop time stamps in the Contractor's Trouble Ticket Reporting Tool (IFB STPD 12-001-B Business Requirements Section B.9.4) for each application of a SCC.*

*Note: The Glossary (SOW Appendix A) defines term "End-User" as the "individual within an Entity that is utilizing the feature or service provided under the Contract."*

*Stop Clock Conditions are limited to the conditions listed in Table 5.5.7.*

*Table 5.5.7 – Stop Clock Conditions (SCC)*

#	Stop Clock Condition (SCC)	SCC Definition
1	<b>END-USER REQUEST</b>	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	<b>OBSERVATION</b>	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	<b>END-USER NOT AVAILABLE</b>	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	<b>WIRING</b>	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	<b>POWER</b>	Trouble caused by a power problem outside of the responsibility of the Contractor.
6	<b>FACILITIES</b>	Lack of building entrance Facilities or conduit structure that are the End-User's responsibility to provide.
7	<b>ACCESS</b>	Limited access or contact with End-User provided the Contractor documents in the trouble ticket several efforts to contact End-User for the following: <ul style="list-style-type: none"> <li>a. Access necessary to correct the problem is not available because access has not been arranged by site contact or End-User representative;</li> <li>b. Site contact refuses access to technician who displays proper identification;</li> </ul>

#	Stop Clock Condition (SCC)	SCC Definition
		<p>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,</p> <p>d. Site has limited hours of business that directly impacts the Contractor's ability to resolve the problem.</p> <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>
8	<b>STAFF</b>	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	<b>APPLICATION</b>	End-User software applications that interfere with repair of the trouble.
10	<b>CPE</b>	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	<b>NO RESPONSE</b>	Failure of the trouble ticket originator or responsible End-User to return a call from Contractor's technician for on-line close-out 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	<b>MAINTENANCE</b>	An outage directly related to any properly performed scheduled maintenance or upgrade scheduled for CALNET 3 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.

#	Stop Clock Condition (SCC)	SCC Definition
13	<b>THIRD PARTY</b>	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.
14	<b>FORCE MAJEURE</b>	Force Majeure events, as defined in the PMAC General Provisions - Telecommunications, Section 28 (Force Majeure).

*Bidder understands the Requirement and shall meet or exceed it? Yes X No \_\_\_\_\_*

### 5.5.8 TECHNICAL SERVICE LEVEL AGREEMENTS

The Contractor shall provide and manage the following Technical SLAs.

#### 5.5.8.1 Availability (M-S)

<b>SLA Name:</b> Availability				
<b>Definition:</b> The percentage of time a CALNET 3 service is fully functional and available for use each calendar month.				
<b>Measurement Process:</b> The monthly Availability Percentage shall be based on the accumulative total of all Unavailable Time derived from all trouble tickets closed, for the affected service (Per Circuit 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 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.				
<b>Services:</b>				
Managed Internet Service			Secure Cloud Interconnect (SCI)	
<b>Objective(s):</b>				
The objective shall be based on the network side interface type:				
<b>SLA Objective Table 1 – Required</b>				
Network Side Interface	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B, S or P)
T1/FT1	≥ 99.2%	≥ 99.5%	≥ 99.8%	<b>S</b>
T3/FT3	≥ 99.7%	≥ 99.8%	≥ 99.9%	<b>S</b>
OCX/OCXc	≥ 99.7%	≥ 99.8%	≥ 99.9%	<b>S</b>
Ethernet 1 Mbps up to 1 GbE (Gigabit Ethernet)	≥ 99.2%	≥ 99.5%	≥ 99.8%	<b>S</b>
Ethernet 10 GbE	≥ 99.2%	≥ 99.5%	≥ 99.8%	<b>S</b>

**Objective(s), continued:**

With the exception of XDSL, Bidder shall identify any additional Contractor identified network side interfaces not listed in the Table 1 above for InFRa and InFRaM services. Bidder shall provide an objective commitment percentage for each additional network side interface which must be above 99.2%

SLA Objective Table 2 –Additional		
	Additional Network Side Interface	Bidder's Objective Commitment (%)
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

<b>Rights and Remedies</b>	<b>Per Occurrence:</b> N/A
	<p><b>Monthly Aggregated Measurements:</b></p> <p>First month the service fails to meet the committed SLA objective shall result in a 15 percent rebate of the TMRC and two (2) Business Days of the ADUC, when usage applies.</p> <p>The second consecutive month the service fails to meet the committed SLA objective shall result in a 30 percent rebate of TMRC and two (2) Business Days of the ADUC, when usage applies.</p> <p>Each additional consecutive month the service fails to meet the committed SLA objective shall result in a 50 percent rebate of the TMRC and two (2) Business Days of the ADUC, when usage applies.</p>

**Bidder understands the Requirement and shall meet or exceed it? Yes  No**

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

<b>SLA Name:</b> Catastrophic Outage 1 (CAT 1)					
<b>Definition:</b> The total loss of service at a single site resulting in the loss of service to five (5) or more circuits or any single service at 500Mbps or greater.					
<b>Measurement Process:</b> 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) affected by a 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) is restored minus SCC. Any service reported by Customer as not having been restored shall have the outage time adjusted to the actual restoration time.					
<b>Service(s):</b>					
Managed Internet Service					
<b>Objective (s):</b> The objective restoral time shall be:					
		<b>Basic (B)</b>	<b>Standard (S)</b>	<b>Premier (P)</b>	<b>Bidder's Objective Commitment (B, S or P)</b>
	Managed Internet Service	≤ 3 hours	≤ 2 hours	≤ 1 hour	<b>S</b>
<b>Rights and Remedies</b>	<b>Per Occurrence:</b> 100 percent of the TMRC and ten (10) days of ADUC for each End-User service not meeting the committed objective for each CAT 1 fault.				
	<b>Monthly Aggregated Measurements:</b> N/A				

Bidder understands the Requirement and shall meet or exceed it? Yes  No

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

<b>SLA Name:</b> Catastrophic Outage 2 (CAT 2)					
<b>Definition:</b> A total failure of a service type in a central office (or equivalent facility), other than access, that results in a CALNET 3 service failure. Or, a backbone failure or failure of any part of the equipment associated with the backbone that causes a CALNET 3 service failure.					
<b>Measurement Process:</b> 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 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 a 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) basis from information recorded from the network equipment/system or Customer reported trouble ticket. Each End-User service (Circuit 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.					
<b>Service(s):</b>					
Managed Internet Service		Secure Cloud Interconnect (SCI)			
<b>Objective (s):</b> The objective restoral time shall be:					
		<b>Basic (B)</b>	<b>Standard (S)</b>	<b>Premier (P)</b>	<b>Bidder's Objective Commitment (B, S or P)</b>
	Managed Internet Service	≤ 1 hour	≤ 30 minutes	≤ 15 minutes	<b>S</b>
	Secure Cloud Interconnect (SCI)	≤ 1 hour	≤ 30 minutes	≤ 15 minutes	<b>S</b>
<b>Rights and Remedies</b>	<b>Per Occurrence:</b> 100 percent of the TMRC and ten (10) days ADUC for each End-User service not meeting the committed objective for each CAT 2 fault				
	<b>Monthly Aggregated Measurements:</b> N/A				

Bidder understands the Requirement and shall meet or exceed it? Yes  No

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

<b>SLA Name:</b> Catastrophic Outage 3 (CAT 3)					
<b>Definition:</b> The total loss of Managed Internet Service on a system wide basis.					
<b>Measurement Process:</b> 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 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 a common cause. Outage Duration shall be measured on a per-End-User service (Circuit ID) basis from information recorded from the network equipment/system or trouble ticket. Each End-User service (Circuit 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.					
<b>Service(s):</b>					
Managed Internet Service		Secure Cloud Interconnect (SCI)			
<b>Objectives:</b> The objective restoral time shall be:					
		<b>Basic (B)</b>	<b>Standard (S)</b>	<b>Premier (P)</b>	<b>Bidder's Objective Commitment (B or P)</b>
	Managed Internet Service	≤ 30 minutes	N/A	≤ 15 minutes	<b>P</b>
	Secure Cloud Interconnect (SCI)	≤ 30 minutes	N/A	≤ 15 minutes	<b>P</b>
<b>Rights and Remedies</b>	<b>Per Occurrence:</b> 100 percent of the TMRC and ten (10) days ADUC for each End-User service not meeting the committed objective for each CAT 3 fault.				
	<b>Monthly Aggregated Measurements:</b> N/A				

Bidder understands the Requirement and shall meet or exceed it? Yes  No

5.5.8.5 Excessive Outage (M-S)

<b>SLA Name:</b> Excessive Outage					
<b>Definition:</b> A service failure that remains unresolved for more than the committed objective level.					
<b>Measurement Process:</b> This SLA is based on trouble ticket Unavailable Time. The circuit or service is unusable during the time the trouble ticket is reported as opened until restoration of the service, minus SCC. If Customer reports a service failure as unresolved after the closure of the trouble ticket by the Contractor, the Unavailable Time shall be adjusted to the actual restoration time.					
<b>Service(s):</b>					
Managed Internet Service			Secure Cloud Interconnect (SCI)		
<b>Objective (s):</b> The Unavailable Time objective shall not exceed:					
		<b>Basic (B)</b>	<b>Standard (S)</b>	<b>Premier (P)</b>	<b>Bidder's Objective Commitment (B, S or P)</b>
	Managed Internet Service	16 hours	12 hours	8 hours	<b>S</b>
	Secure Cloud Interconnect (SCI)	16 hours	12 hours	8 hours	<b>P</b>
<b>Rights and Remedies</b>	<b>Per Occurrence:</b> 100 percent of the TMRC and ten (10) days ADUC for each service (Circuit ID) out of service for a period greater than the committed objective level. Upon request from the Customer or the CALNET 3 CMO, the Contractor shall provide a briefing on the excessive outage restoration.				
	<b>Monthly Aggregated Measurements:</b> N/A				

Bidder understands the Requirement and shall meet or exceed it? Yes  No

5.5.8.6 Managed Service Proactive Notification (M-S)

<b>SLA Name:</b> Managed Service Proactive Notification	
<p><b>Definition:</b> The proactive outage notification provides credits if the Contractor fails to open a trouble ticket and notify Customer of an Outage for a managed router service. Notification to the Customer shall occur through means agreed to by Contractor and CALNET 3 CMO.</p> <p>An Outage is defined as an unscheduled period in which the managed router service is 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.</p>	
<p><b>Measurement Process:</b> 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 (15) minutes (Notification Period) to 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.</p>	
<b>Service(s):</b>	
Managed Internet Services with Managed Router	Secure Cloud Interconnect (SCI)
<b>Objective (s):</b> 15 minutes	
<b>Rights and Remedies</b>	<b>Per Occurrence:</b> Customer will receive a credit equal to ten percent of the TMRC for Managed Internet Service (Circuit ID) that was impacted during an outage if the Customer was not proactively notified within the notification period
	<b>Monthly Aggregated Measurements:</b> N/A

Bidder understands the Requirement and shall meet or exceed it? Yes  No

5.5.8.7 Notification

<b>SLA Name:</b> Notification	
<b>Definition:</b> The Contractor notification to CALNET 3 CMO and designated stakeholders in the event of a CAT 2 or CAT 3 failure, Contractor, Subcontractor or Affiliate network event, terrorist activity, threat of natural disaster, or actual natural disaster which results in a significant loss of telecommunication services to CALNET 3 End-Users or has the potential to impact services in a general or statewide area. The State understands initial information regarding the nature of the outage may be limited.	
<b>Measurement Process:</b> The Contractor shall adhere to the Network Outage Response requirements (IFB STPD 12-001-B Business Requirements Section B.3.3) and notify the CALNET 3 CMO 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 natural disaster, the Contractor shall notify CALNET 3 CMO and designated stakeholder when information is available.	
<b>Service(s):</b> All Services	
<b>Objective (s):</b> Within 60 minutes of the above mentioned failures' start time, the Contractor shall notify CALNET 3 CMO and designated stakeholders using a method defined in IFB STPD 12-001-B Business Requirements Section B.3.3 (Network Outage Response). At 60 minute intervals, updates shall be given on the above mentioned failures via the method defined in Section IFB STPD 12-001-B Business Requirements Section B.3.3 (Network Outage Response). This objective is the same for Basic, Standard and Premier commitments.	
<b>Rights and Remedies</b>	<b>Per Occurrence:</b> Senior Management Escalation
	<b>Monthly Aggregated Measurements:</b> N/A

**Bidder understands the Requirement and shall meet or exceed it? Yes X No \_\_\_\_\_**

5.5.8.8 Provisioning (M-S)

<b>SLA Name:</b> Provisioning		
<p><b>Definition:</b> 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 Customer and Contractor documented on the Contractor's order confirmation notification or Contracted Service Project Work SOW in accordance with IFB STPD 12-001 Business Requirements Section B.2.5.4 #7 (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 Schedule per IFB STPD 12-001-B Business Requirements Section B.6 (Contracted Service Project Work).</p> <p>Provisioning SLAs have two (2) objectives:</p> <p>Objective 1: Individual Service Request; and</p> <p>Objective 2: Successful Install Monthly Percentage by Service Type.</p> <p>Note: Provisioning timelines include extended demarcation wiring, when appropriate.</p>		
<p><b>Measurement Process:</b></p> <p><u>Objective 1: Individual Service Request:</u> Install intervals are based on the committed installation intervals established in this SLA or due dates negotiated between Customer and Contractor. This objective requires the Contractor to meet the due date for each individual Service Request.</p> <p><u>Objective 2: Successful Install Monthly Percentage per service Type:</u> The Contractor shall sum all individual Service Requests per service, as listed below, meeting the objective in the measurement period (per month) and divide by the sum of all individual Service Requests due per service in the measurement period and multiply by 100 to equal the percentage of Service Requests installed on time. The Contractor must meet or exceed the objective below in order to avoid the rights and remedies.</p>		
<b>Service (Features must be installed in conjunction with the service except when listed below)</b>	<b>Committed Interval Calendar Days</b>	<b>Coordinated/Managed Project</b>
InFRA	30	Coordinated/Managed Project
InFRaM	45	Coordinated/Managed Project
InSBET	30	Coordinated/Managed Project
InSBEP	30	Coordinated/Managed Project
InSBEPM	45	Coordinated/Managed Project
Secure Cloud Interconnect (SCI)	45	Coordinated/Managed Projects

<b>Objective (s):</b>				
Objective 1: Individual Service Request: Service installed on or before the Committed Interval or negotiated due date.				
Objective 2: Successful Install Monthly Percentage per Service:				
	<b>Basic (B)</b>	<b>Standard (S)</b>	<b>Premier (P)</b>	<b>Bidder's Objective Commitment (S or P)</b>
InFRA	N/A	≥ 90%	≥ 95%	<b>S</b>
InFRaM	N/A	≥ 90%	≥ 95%	<b>S</b>
InSBET	N/A	≥ 90%	≥ 95%	<b>S</b>
InSBEP	N/A	≥ 90%	≥ 95%	<b>S</b>
InSBEPM	N/A	≥ 90%	≥ 95%	<b>S</b>
Secure Cloud Interconnect (SCI)	N/A	≥ 90%	≥ 95%	<b>P</b>
<b>Rights and Remedies</b>	<b>Per Occurrence:</b> Objective 1: Individual Service Requests: 50 percent of installation fee credited to Customer for any missed committed objective.			
	<b>Monthly Aggregated Measurements:</b> Objective 2: 100 percent of the installation fee credited to Customer for all Service Requests (per service type) that did not complete on time during the month if the Successful Install Monthly Percentage is below the committed objective.			

Bidder understands the Requirement and shall meet or exceed it? Yes  No



**5.5.8.12 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 this Section 5.5.8.12.*

**Bidder understands the Requirement and shall meet or exceed it? Yes  No \_\_\_\_\_**