

ZAYO GROUP'S RESPONSE

TO

**INVITATION FOR BID
IFB STPD 12-001-B**

FOR

**CALNET 3, Subcategory 4.1
SONET Ring Connectivity**

Amendment #8

October 1, 2018

BY

STATE OF CALIFORNIA

California Department of Technology
Statewide Telecommunications Procurement Division
PO Box 1810
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VOLUME 2: Subcategory 4.1 SONET Ring Connectivity

Response to Unique Category Requirements

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SOW Technical Requirements Response

SubCategory 4.1 – SONET RING CONNECTIVITY

4.1.1 OVERVIEW

This Subcategory 4.1 IFB provides the State's solicitation for best value solutions for SONET ring connectivity. 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).

4.1.1.1 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:"

4.1.1.2 DESIGNATION OF REQUIREMENTS

All Technical Requirements specified in this IFB Section are Mandatory and must be responded to as identified in IFB Section 3.5.2.5 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 additional unsolicited items include the features described in the IFB and are not included as billable in the Subcategory Cost Worksheets, the cost associated with the features shall not be included in the unsolicited price.

Services and features included in the Subcategory 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.

4.1.1.3 PACIFIC TIME ZONE

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

4.1.2 *SYNCHRONOUS OPTICAL NETWORK (SONET)*

Contractor shall provide Synchronous Optical Network (SONET) service for high bandwidth communication paths in a bi-directional and self-healing configuration.

Bidders shall describe in detail the SONET service that will be deployed to satisfy this requirement for high bandwidth communication paths in a bi-directional and self-healing configuration.

Bidder understands the requirements in Section 4.1.2 and shall meet or exceed them? Yes X No _____

Description:

Zayo Group's SONET network is extensive and covers many western states including California. It is purpose built on newer technologies including DWDM (dense wavelength-division multiplexing) trunks using our Infinera or Ciena platforms as well as Cisco, Fuji and the older Northern Telecom optical carrier systems. The fiber pathways are primarily installed as Primary Optical Ground Wire (POGW) on the high voltage transmission towers in the electrical transmission grid. The fiber network is a repeating system, including add/drop locations that are in dedicated facilities located on the property of the electrical transmission providers. In some cases this includes federal installations. These are high security areas. We refer to these as "Huts" but they are more than that. They are small concrete buildings that provide a temperature and humidity controlled environment with UPS and power generation capacities.

The termination of the optics is in a larger facility we refer to as "Hubs" or "Switch Sites" and both are considered Central Offices (CO). In addition, these facilities are larger and act as primary interconnection points not only between our own backbone and other network providers. These hub sites are NEBS compliant facilities and have redundant support systems including environmental, power systems, UPS and are built to zone level earthquake standards.

All hubs are interconnected in a ring topology on a large geographic basis. The optical backbone transits the state of California along its north-south alignment with entry/exit points into Oregon and Nevada. The larger SONET ring travels through Nevada, Utah, Idaho, and Oregon and back to California on the North. This establishes a complete ring around California that is under one company's control and management.

The design of the backbone (or Long-haul) as well as the metro distribution networks have both UPSR (unidirectional path switched ring) and BSLR (bidirectional line switched ring) capabilities and have capabilities for primary and secondary electronics when and if desired as customer facing systems. All common systems are redundant and have secondary paths.

Current technology is deployed on Ciena Systems equipment and is very flexible in its delivery mechanisms.

4.1.2.1 SONET General Requirements

4.1.2.1.1 Standards Based Interfaces

The Contractor shall support commercially available optical interfaces and shall comply with ANSI, Telcordia, ITU, and IEEE Standards. Service handoffs for SONET shall be synchronous at OC-3, OC3-c (concatenated), OC-12, OC-12c, OC-48, OC-48c, or OC-192. Asynchronous services at T1 and DS3 shall be carried over SONET in 51 Mbps Synchronous Transport Signal Level1 (STS/1) packages.

Bidders shall describe all of the commercially available optical interfaces that are supported by their solution.

Bidder understands the requirements in Section 4.1.2.1.1 and shall meet or exceed them? Yes X No _____

Description:

Optical interfaces are OC-3, OC3-c (STM-1), OC-12-c, OC-12 (STM-4), OC-48-c, OC-48 1G SONET, OC-48 / STM-16 / 2.5G SONET, OC-192 / STM-64 / 10G SONET.

Additionally T1 and DS-3, DS-3C are available on all OC-3 systems and some OC-12 systems.

4.1.2.1.2 Packet Delivery

The monthly average packet delivery shall be greater than 99.9 percent throughput for each circuit. The monthly average percentage shall be derived from the total number of packets/cells/frames output at the network egress port divided by the total number of packets/cells/frames input at the ingress port within the subscribed rate, multiplied by 100.

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

4.1.2.1.3 Equipment and Environment

The Contractor shall provide and install all network terminating equipment (NTE) in State provided Telecommunication Closet MPOE locations utilizing State provided building entrance facilities. All Contractor Equipment shall adhere to the Telcordia Network Equipment Building System (NEBS).

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

4.1.2.2 SONET Dedicated Ring Service (SDRS)

The Contractor shall provide SONET ring network services on dedicated fiber rings for a single Customer at OC-3, OC-12, OC-48, or OC-192 capacity.

A SONET ring shall be composed of two (2) fiber strands, connected at one (1) or more Customer premise locations and at one (1) or more serving wire centers with add/drop multiplexing nodes. Nodes shall be equipped with access ports that define the facility interfaces (T1, DS3, OC-3c, OC-12, or OC-48). Two (2) fibers each shall carry half of the ring's total transmission traffic plus a protection path of the other fiber's transmissions in opposite directions around the ring. In the event of a fiber cut or node failure anywhere on the ring, service immediately (within 50 milliseconds of detection) shall switch to a "collapsed" ring, carrying the full traffic to all the nodes.

Alternate wire centers shall be available to provide ring diversity when required.

No mileage charges shall apply for services where nodes are less than ten (10) miles apart.

Bidders shall describe in detail the SONET Dedicated Ring Services that will be deployed to satisfy this requirement.

Bidder understands the requirements in Section 4.1.2.2 and shall meet or exceed them?

Yes X No _____

Description:

All Zayo Group SONET rings are protected with redundant secondary paths on dual fiber pairs of single mode 8.3 micron fiber. Each ring is purpose designed with a proper light loss budget to maintain optimum signal at any node. Each such system has the capability to automatically switch to its redundant path inside of 50 milliseconds of loss of synchronization. This topology is common design in all OC-3, OC-12, OC-48 and OC192 SONET systems and their variants like OC-3C.

SONET rings can be deployed in BSLR or UPSR configurations based on local needs and customer specifications. All SONET rings are monitored through our telemetry system and managed under one autonomous group. This reduces response time to system alerts.

4.1.2.2.1 SDRS Architecture Options

The Contractor shall provide Customers a choice of Unidirectional Path Switched Ring (UPSR) or Bi-directional Line Switched Ring (BLSR).

UPSR is for centralized or hubbed transport. UPSR shall be available for OC-3, OC-12, and OC-48 SONET rings.

BLSR is for transport requiring a great amount of highly distributed bandwidth. BLSR shall be available for OC-192 rings.

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

4.1.2.2.2 SDRS Add Drop Multiplexing Nodes

The Contractor shall provide Customer premise add/drop multiplexing nodes equipped with the following access ports: DS1, DS3, OC-1, OC-3, OC3-c, OC-12, OC-12c, OC-48, OC-48c and CO-192.

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

4.1.2.2.3 SDRS Services and Features

The Contractor shall offer SDRS services and features detailed in Table 4.1.2.2.3.a.

Table 4.1.2.2.3.a –SDRS Services and Features

	Feature Name	Feature Description	Bidder Meets or Exceeds?		Bidder's Product Identifier
			Y	N	
1	SDRS Local Loop Service (OC-3)	Dedicated ring local loop at OC-3 speed connects a Customer site/Customer premise node to a SDRS node located in the central office at OC-3 speed. Service requires SDRS central office node.	Y		401001
Bidder's Product Description: <i>At each Customer site or premise location Zayo Group will provide a SONET node with a main trunk line at the OC-3 Level. The origin of the OC-3 will be located within an Zayo Group Central Office, serving wire center or contracted location for this purpose. All SONET nodes will comply with ANSI, Telcordia, ITU, and IEEE Standards.</i>					
2	SDRS Local Loop Service (OC-12)	Dedicated ring local loop at OC-12 speed connects a Customer site/Customer premise node to a SDRS node located in the central office at OC-12 speed. Service requires SDRS central office node.	Y		401002
Bidder's Product Description: <i>At each Customer site or premise location Zayo Group will provide a SONET node with a main trunk line at the OC-12 Level. The origin of the OC-12 will be located within an Zayo Group Central Office, serving wire center or contracted location for this purpose. All SONET nodes will comply with ANSI, Telcordia, ITU, and IEEE Standards.</i>					

	Feature Name	Feature Description	Bidder Meets or Exceeds?		Bidder's Product Identifier
			Y	N	
3	SDRS Local Loop Service (OC-48)	Dedicated ring local loop at OC-48 speed connects a Customer site/Customer premise node to a SDRS node located in the central office at OC-48 speed. Service requires SDRS central office node.	Y		401003
Bidder's Product Description: <i>At each Customer site or premise location Zayo Group will provide a SONET node with a main trunk line at the OC-48 Level. The origin of the OC-48 will be located within an Zayo Group Central Office, serving wire center or contracted location for this purpose. All SONET nodes will comply with ANSI, Telcordia, ITU, and IEEE Standards.</i>					
4	SDRS Local Loop Service (OC-192)	Dedicated ring local loop at OC-192 speed connects a Customer site/Customer premise node to a SDRS node located in the central office at OC-192 speed. Service requires SDRS central office node.	Y		401004
Bidder's Product Description: <i>At each Customer site or premise location Zayo Group will provide a SONET node with a main trunk line at the OC-192 Level. The origin of the OC-192 will be located within an Zayo Group Central Office, serving wire center or contracted location for this purpose. All SONET nodes will comply with ANSI, Telcordia, ITU, and IEEE Standards.</i>					
5	SDRS Central Office Access Port (OC-3)	Hand off for services located at a central office node OC-3. Connects local loop access links, multiplexer, channel terminations, or circuit service facilities to central office node in dedicated ring configurations.	Y		401005
Bidder's Product Description: <i>An OC-3 channel termination or termination facility will be provided in the Zayo Group Central Office, serving wire center or contracted location for this purpose. All SONET nodes will comply with ANSI, Telcordia, ITU, and IEEE Standards.</i>					

	Feature Name	Feature Description	Bidder Meets or Exceeds?		Bidder's Product Identifier
			Y	N	
6	SDRS Central Office Access Port (OC-12)	Hand off for service located at a central office node (OC-12). Connects local loop access links, multiplexer, channel terminations, or circuit service facilities to central office node in dedicated ring configurations.	Y		401006
Bidder's Product Description: <i>An OC-12 channel termination or termination facility will be provided in the Zayo Group Central Office, serving wire center or contracted location for this purpose. All SONET nodes will comply with ANSI, Telcordia, ITU, and IEEE Standards.</i>					
7	SDRS Central Office Access Port (OC-48)	Hand off for services located at a central office node (OC-48). Connects local loop access links, multiplexer, channel terminations, or circuit service facilities to central office node in dedicated ring configurations.	Y		401007
Bidder's Product Description: <i>An OC-48 channel termination or termination facility will be provided in the Zayo Group Central Office, serving wire center or contracted location for this purpose. All SONET nodes will comply with ANSI, Telcordia, ITU, and IEEE Standards.</i>					
8	SDRS Central Office Access Port (OC-192)	Hand off for service located at a central office node (OC-192). Connects local loop access links, multiplexer, channel terminations, or circuit service facilities to central office note in dedicated ring configurations.	Y		401008
Bidder's Product Description: <i>An OC-192 channel termination or termination facility will be provided in the Zayo Group Central Office, serving wire center or contracted location for this purpose. All SONET nodes will comply with ANSI, Telcordia, ITU, and IEEE Standards.</i>					
9	SDRS Central Office Node OC-3	Add/drop SONET multiplexer placed in Contractors central office. Connects to one (1) or more premises nodes and SONET ring at OC-3 speed.	Y		401009
Bidder's Product Description: <i>An add/drop SONET node will be provided within an Zayo Group Central Office, serving wire center or contracted location for this purpose. It will be available for connecting multiple OC-3 level terminations. All SONET nodes will comply with ANSI, Telcordia, ITU, and IEEE Standards.</i>					

	Feature Name	Feature Description	Bidder Meets or Exceeds?		Bidder's Product Identifier
			Y	N	
10	SDRS Central Office Node OC-12	Add/drop SONET multiplexer placed in Contractors central office. Connects to one (1) or more premises nodes and SONET ring at OC-12 speed.	Y		401010
Bidder's Product Description: <i>An add/drop SONET node will be provided within an Zayo Group Central Office, serving wire center or contracted location for this purpose. It will be available for connecting multiple OC-12 level terminations. All SONET nodes will comply with ANSI, Telcordia, ITU, and IEEE Standards.</i>					
11	SDRS Central Office Node OC-48	Add/drop SONET multiplexer placed in Contractors central office. Connects to one (1) or more premises nodes and SONET ring at OC-48 speed.	Y		401011
Bidder's Product Description: <i>An add/drop SONET node will be provided within an Zayo Group Central Office, serving wire center or contracted location for this purpose. It will be available for connecting multiple OC-48 level terminations. All SONET nodes will comply with ANSI, Telcordia, ITU, and IEEE Standards.</i>					
12	SDRS Central Office Node OC-192	Add/drop SONET multiplexer placed in Contractors central office. Connects to one (1) or more premises nodes and SONET ring at OC-192 speed.	Y		401012
Bidder's Product Description: <i>An add/drop SONET node will be provided within an Zayo Group Central Office, serving wire center or contracted location for this purpose. It will be available for connecting more than one OC-192 level termination. All SONET nodes will comply with ANSI, Telcordia, ITU, and IEEE Standards.</i>					
13	SDRS Premise Access Port (T1)	Hand off for service located at a Customer location/premise node T1 (1.5Mbps)	Y		401013
Bidder's Product Description: <i>This element specifies a T1 interface that can be installed in OC-3 and OC12 SONET nodes and in some specific systems up to OC-192 SONET nodes using slotted interface cards.</i>					

	Feature Name	Feature Description	Bidder Meets or Exceeds?		Bidder's Product Identifier
			Y	N	
14	SDRS Premise Access Port 45 Mbps (DS3)	Hand off for service located at a Customer location/premise node DS3 (45Mbps)	Y		401014
Bidder's Product Description: <i>This element specifies a DS-3 interface that can be installed in OC-3 and OC12 SONET nodes and in some specific systems up to OC-192 SONET nodes using slotted interface cards.</i>					
15	SDRS Premise Access Port (OC-3)	Hand off for service located at a Customer location/premise node OC-3	Y		401015
Bidder's Product Description: <i>This element specifies an OC-3 interface that can be installed in OC-3 and OC12 SONET nodes and in some specific systems up to OC-192 SONET nodes using slotted interface cards.</i>					
16	SDRS Premise Access Port (OC-12)	Hand off for service located at a Customer location/premise node OC-12	Y		401016
Bidder's Product Description: <i>This element specifies an OC-12 interface that can be installed in OC12 SONET nodes and in some specific systems up to OC-192 SONET nodes using slotted interface cards.</i>					
17	SDRS Premise Access Port (OC-48)	Hand off for service located at a Customer location/premise node OC-48	Y		401017
Bidder's Product Description: <i>This element specifies an OC-48 interface that can be installed in OC12 SONET nodes and in some specific systems up to OC-192 SONET nodes using slotted interface cards.</i>					

	Feature Name	Feature Description	Bidder Meets or Exceeds?		Bidder's Product Identifier
			Y	N	
18	SDRS Mileage Dedicated Ring Service OC-3. Per mile over ten (10) miles	Variable mileage for OC-3 Dedicated Ring Service with nodes greater than ten (10) miles apart	Y		401018
Bidder's Product Description: <i>Per mile extension of an OC-3 Dedicated SONET Ring beyond 10 miles separation between service nodes.</i>					
19	SDRS Mileage Dedicated Ring Service OC-12. Per mile over ten (10) miles	Variable mileage for OC-12 Dedicated Ring Service with nodes greater than ten (10) miles apart	Y		401019
Bidder's Product Description: <i>Per mile extension of an OC-12 Dedicated SONET Ring beyond 10 miles separation between service nodes.</i>					
20	SDRS Mileage Dedicated Ring Service OC-48. Per mile over ten (10) miles	Variable mileage for OC-48 Dedicated Ring Service with nodes greater than ten (10) miles apart	Y		401020
Bidder's Product Description: <i>Per mile extension of an OC-48 Dedicated SONET Ring beyond 10 miles separation between service nodes.</i>					
21	SDRS Mileage Dedicated Ring Service OC-192. Per mile over ten (10) miles	Variable mileage for OC-192 Dedicated Ring Service with nodes greater than ten (10) miles apart	Y		401021
Bidder's Product Description: <i>Per mile extension of an OC-192 Dedicated SONET Ring beyond 10 miles separation between service nodes.</i>					

The Contractor may offer additional unsolicited SDRS services and features in Table 4.1.2.2.3.b.

Table 4.1.2.2.3.b Unsolicited SDRS Services and Features

	Feature Name	Feature Description	Bidder's Product Identifier
1			
2			
3			
4			
5			
6			
7			
8			

4.1.2.2.4 SDRS Geographic Requirements

Table 4.1.2.2.4.a provides a listing of cities in California. **Bidders shall indicate the geographic locations where Contractor will provide SDRS in Table 4.1.2.2.4.a where Contractor's facilities are available. By entering "X", the Bidder commits to provide service in that specific location.**

Table 4.1.2.2.4.a – SDRS Geographic Service Areas

	Service Location	SDRS
1	Adelanto	
2	Agoura Hills	
3	Alameda	

	Service Location	SDRS
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	
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	

	Service Location	SDRS
37	Benicia	
38	Berkeley	
39	Beverly Hills	
40	Big Bear Lake	
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	
60	Camarillo	
61	Campbell	
62	Canyon Lake	
63	Capitola	
64	Carlsbad	
65	Carmel-By-The-Sea	
66	Carpinteria	
67	Carson	
68	Cathedral City	
69	Ceres	

	Service Location	SDRS
70	Cerritos	
71	Chico	
72	Chino	
73	Chino Hills	
74	Chowchilla	
75	Chula Vista	
76	Citrus Heights	
77	Claremont	
78	Clayton	
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	
98	Crescent City	
99	Cudahy	
100	Culver City	
101	Cupertino	
102	Cypress	

	Service Location	SDRS
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	
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	SDRS
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	
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	

	Service Location	SDRS
169	Hawaiian Gardens	
170	Hawthorne	
171	Hayward	
172	Healdsburg	
173	Hemet	
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	
192	Inglewood	
193	Inyo	
194	lone	
195	Irvine	
196	Irwindale	
197	Isleton	
198	Jackson	
199	Kerman	
200	Kern	
201	King City	

	Service Location	SDRS
202	Kings	
203	Kingsburg	
204	La Canada Flintridge	
205	La Habra	
206	La Habra Heights	
207	La Mesa	
208	La Mirada	
209	La Palma	
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	
229	Lemoore	
230	Lincoln	
231	Lindsay	
232	Live Oak	
233	Livermore	
234	Livingston	

	Service Location	SDRS
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	
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	
266	Mission Viejo	
267	Modesto	

	Service Location	SDRS
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	
285	Needles	
286	Nevada City	
287	Newark	
288	Newman	
289	Newport Beach	
290	Norco	
291	Norwalk	
292	Novato	
293	Oakdale	
294	Oakland	X
295	Oakley	
296	Oceanside	
297	Ojai	
298	Ontario	
299	Orange	
300	Orange Cove	

	Service Location	SDRS
301	Orinda	
302	Orland	
303	Oroville	
304	Oxnard	
305	Pacific Grove	
306	Pacifica	
307	Palm Desert	
308	Palm Springs	
309	Palmdale	
310	Palo Alto	X
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	
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	

	Service Location	SDRS
334	Portola Valley	
335	Poway	
336	Rancho Cordova	X
337	Rancho Cucamonga	
338	Rancho Mirage	
339	Rancho Palos Verdes	
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	
358	Rolling Hills Estates	
359	Rosemead	
360	Roseville	
361	Ross	
362	Sacramento	X
363	Salinas	
364	San Anselmo	

	Service Location	SDRS
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	X
374	San Gabriel	
375	San Jacinto	
376	San Joaquin	
377	San Jose	X
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	X
393	Santa Clarita	
394	Santa Cruz	
395	Santa Fe Springs	
396	Santa Maria	
397	Santa Monica	

	Service Location	SDRS
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	
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	
430	Taft	

	Service Location	SDRS
431	Tehachapi	
4324 34	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	
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	

	Service Location	SDRS
464	West Los Angeles	
465	West Sacramento	X
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	

Bidders may indicate additional unsolicited geographic areas in California where their SDRS will be available for CALNET 3 in Table 4.1.2.2.4.b.

If Bidder is unable to identify all service areas within Table 4.1.2.2.4.a, Bidder shall provide additional information in the form of a coverage map that includes unincorporated areas.

Table 4.1.2.2.4.b – Unsolicited SDRS Geographic Service Areas

	Service Location	SDRS
1		
2		
3		

	Service Location	SDRS
4		
5		
6		
7		
8		
9		
10		

4.1.3 SONET NETWORK DISASTER/OPERATIONAL RECOVERY

4.1.3.1 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 X
 No _____*

4.1.3.2 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 X
 No _____*

4.1.4 OTHER SERVICES

4.1.4.1 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.

4.1.4.2 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 4.1.5.8.6 (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;
5. 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,
6. 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, 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 4.1.4.2.a.

Table 4.1.4.2.a Extended Demarcation Wiring Services

#	Feature Name	Feature Description	Bidder Meets or Exceeds?		Bidder's Product Identifier
			Y	N	
1	Extended Demarcation – Copper four-Pair – Regular Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment as described above. Includes 300 feet of four-pair cable and an RJ48s or equivalent jack.	Y		402001
Bidder's Product Description: <i>The extension of any copper 4 pair category 5 or 5E facility from the Customers MPOE to any point up to 300 feet in the customers provided conduit or wiring space as defined in 4.1.4.2. The service will include cable, attachments, jumpers and connectors including the proper RJ 48 jacks or equivalent. Work shall conform to the State Telecommunications Management Manual Facilities Management Chapter, Uniform Building Cabling/Wiring standards.</i> <i>This element is for such services performed Monday through Friday from 8:00AM to 4:59PM (PST or PDT), excepting State of California Holidays.</i>					

#	Feature Name	Feature Description	Bidder Meets or Exceeds?		Bidder's Product Identifier
			Y	N	
2	Extended Demarcation – Copper four-Pair – Overtime Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment as described above. Includes 300 feet of four-pair cable and an RJ48s or equivalent jack.	Y		402002
Bidder's Product Description: <i>The extension of any copper 4 pair category 5 or 5E facility from the Customers MPOE to any point up to 300 feet in the customers provided conduit or wiring space as defined in 4.1.4.2. The service will include cable, attachments, jumpers and connectors including the proper RJ 48 jacks or equivalent. Work shall conform to the State Telecommunications Management Manual Facilities Management Chapter, Uniform Building Cabling/Wiring standards.</i> <i>This element is for such services performed Monday through Friday from 5:00PM to 7:59AM (PST or PDT) and all day Saturday, excepting State of California Holidays.</i>					
3	Extended Demarcation – Copper four-Pair – Sunday and Holiday Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment as described above. Includes 300 feet of four-pair cable and an RJ48s or equivalent jack.	Y		402003
Bidder's Product Description: <i>The extension of any copper 4 pair category 5 or 5E facility from the Customers MPOE to any point up to 300 feet in the customers provided conduit or wiring space as defined in 4.1.4.2. The service will include cable, attachments, jumpers and connectors including the proper RJ 48 jacks or equivalent. Work shall conform to the State Telecommunications Management Manual Facilities Management Chapter, Uniform Building Cabling/Wiring standards.</i> <i>This element is for such services performed anytime on Sunday or California State holidays.</i>					

#	Feature Name	Feature Description	Bidder Meets or Exceeds?		Bidder's Product Identifier
			Y	N	
4	Extended Demarcation – Copper 25 Pair – Regular Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment 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		402004
Bidder's Product Description: <i>The extension of any copper 25 pair category 5 or 5E facility from the Customers MPOE to the point of utilization, up to 300 feet in the customers provided conduit or wiring space as defined in 4.1.4.2. The service will include cable, attachments, Ten (10) 3 meter jumpers and connectors including one (1) patch panel and mounting hardware at the (IDF) and one(1) 24-port patch panel at the MPOE. The installation will be tested, labeled and documented. Work shall conform to the State Telecommunications Management Manual Facilities Management Chapter, Uniform Building Cabling/Wiring standards.</i> <i>This element is for such services performed Monday through Friday from 8:00AM to 4:59PM (PST or PDT), excepting State of California Holidays.</i>					
5	Extended Demarcation – Copper 25 Pair – Overtime Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment 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		402005
Bidder's Product Description: <i>The extension of any copper 25 pair category 5 or 5E facility from the Customers MPOE to the point of utilization, up to 300 feet in the customers provided conduit or wiring space as defined in 4.1.4.2. The service will include cable, attachments, Ten (10) 3 meter jumpers and connectors including one (1) patch panel and mounting hardware at the (IDF) and one(1) 24-port patch panel at the MPOE. The installation will be tested, labeled and documented. Work shall conform to the State Telecommunications Management Manual Facilities Management Chapter, Uniform Building Cabling/Wiring standards.</i> <i>This element is for such services performed Monday through Friday from 5:00PM to 7:59AM (PST or PDT) and all day Saturday, excepting State of California Holidays.</i>					

#	Feature Name	Feature Description	Bidder Meets or Exceeds?		Bidder's Product Identifier
			Y	N	
6	Extended Demarcation – Copper 25 Pair – Sunday and Holiday Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment 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		402006
<p>Bidder's Product Description:</p> <p><i>The extension of any copper 25 pair category 5 or 5E facility from the Customers MPOE to the point of utilization, up to 300 feet in the customers provided conduit or wiring space as defined in 4.1.4.2. The service will include cable, attachments, Ten (10) 3 meter jumpers and connectors including one (1) patch panel and mounting hardware at the (IDF) and one(1) 24-port patch panel at the MPOE. The installation will be tested, labeled and documented. Work shall conform to the State Telecommunications Management Manual Facilities Management Chapter, Uniform Building Cabling/Wiring standards.</i></p> <p><i>This element is for such services performed anytime on Sunday or California State holidays.</i></p>					
7	Extended Demarcation – Optical Fiber Link – Regular Hours	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		402007
<p>Bidder's Product Description:</p> <p><i>The extension of one (1) each 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. This facility is from the Customers MPOE to the point of utilization, up to 1000 feet in the customers provided conduit or wiring space as defined in 4.1.4.2. Work shall conform to the State Telecommunications Management Manual Facilities Management Chapter, Uniform Building Cabling/Wiring standards.</i></p> <p><i>This element is for such services performed Monday through Friday from 8:00AM to 4:59PM (PST or PDT), excepting State of California Holidays.</i></p>					

#	Feature Name	Feature Description	Bidder Meets or Exceeds?		Bidder's Product Identifier
			Y	N	
8	Extended Demarcation – Optical Fiber Link – Overtime Hours	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		402008
Bidder's Product Description: <i>The extension of one (1) each 62.5/125 – or 50/125 – micron, <u>two-strand</u> 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. This facility is from the Customers MPOE to the point of utilization, up to 1000 feet in the customers provided conduit or wiring space as defined in 4.1.4.2. Work shall conform to the State Telecommunications Management Manual Facilities Management Chapter, Uniform Building Cabling/Wiring standards.</i> <i>This element is for such services performed Monday through Friday from 5:00PM to 7:59AM (PST or PDT) and all day Saturday, excepting State of California Holidays.</i>					
9	Extended Demarcation – Optical Fiber Link – Sunday and Holiday Hours	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		402009
Bidder's Product Description: <i>The extension of one (1) each 62.5/125 – or 50/125 – micron, <u>two-strand</u> 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. This facility is from the Customers MPOE to the point of utilization, up to 1000 feet in the customers provided conduit or wiring space as defined in 4.1.4.2. Work shall conform to the State Telecommunications Management Manual Facilities Management Chapter, Uniform Building Cabling/Wiring standards.</i> <i>This element is for such services performed anytime on Sunday or California State holidays.</i>					

The Contractor may offer additional unsolicited extended demarcation wiring services in Table 4.1.4.2.b.

Table 4.1.4.2.b Unsolicited Extended Demarcation Wiring Services

	Feature Name	Feature Description	Bidder's Product Identifier
1			
2			

4.1.4.3 SERVICES RELATED HOURLY SUPPORT

The Contractor shall provide labor for the diagnosis and/or repair of services listed in this Contract and all costs for repair are the responsibility of the service provider unless it is specifically determined that the cause of service failure is outside the scope of the Contractor's responsibilities. Work performed under this Section 4.1.4.3 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 4.1.4.3, 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 4.1.4.3.

Table 4.1.4.3 Services Related Hourly Support

	Labor Classification Name	Classification Description	Bidder Meets or Exceeds?		Bidder's Product Identifier
			Y	N	
1	Field Service Repair Technician Regular Hours	Field technician properly trained to an expert level for the service being dispatched to diagnose and/or repair a CALNET 3 service problem that turns out to be caused by factors outside the responsibility of the Contractor.	Y		403001
Bidder's Product Description: <i>One hour of service as labor performed by a properly trained field service technician familiar with the suppliers network service components, cabling and systems. This element is for such services performed Monday through Friday from 8:00AM to 4:59PM (PST or PDT), excepting Holidays.</i>					
2	Field Service Repair Technician Overtime Hours	Field technician properly trained to an expert level for the service being dispatched to diagnose and/or repair a CALNET 3 service problem that turns out to be caused by factors outside the responsibility of the Contractor.	Y		403002
Bidder's Product Description: <i>One hour of service as labor performed by a properly trained field service technician familiar with the suppliers network service components, cabling and systems. This element is for such services performed Monday through Friday from 5:00PM to 7:59AM (PST or PDT) and all day Saturday, excepting Holidays.</i>					
3	Field Service Repair Technician Sunday and Holiday Hours	Field technician properly trained to an expert level for the service being dispatched to diagnose and/or repair a CALNET 3 service problem that turns out to be caused by factors outside the responsibility of the Contractor.	Y		403003
Bidder's Product Description: <i>One hour of service as labor performed by a properly trained field service technician familiar with the suppliers network service components, cabling and systems. This element is for such services performed anytime on Sunday or California State holidays.</i>					

4.1.5 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.

4.1.5.1 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 X
No _____*

4.1.5.2 TECHNICAL REQUIREMENTS VERSUS SLA OBJECTIVES

Sections 4.1.2 (SONET), 4.1.3 (SONET Network Disaster/Operational Recovery) and 4.1.4 (Other Services) define the technical requirements for each service. These requirements are the minimum parameters each Bidder must meet in order to qualify for Contract award. Upon Contract award the committed technical requirements will be maintained throughout the remainder of the Contract.

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

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

4.1.5.3 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 X
No _____

4.1.5.4 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 X
No _____

4.1.5.5 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 STPD 12-001-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 X
No _____*

4.1.5.6 TECHNICAL SLA GENERAL REQUIREMENTS

The Contractor shall adhere to the following general requirements which apply to all CALNET 3 Technical SLAs (Section 4.1.5.8):

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 where the Contractor commits to provide service. Any SLAs and remedies negotiated between Contractor and Incumbent Local Exchange Carriers in territories closed to competition shall be passed through to the CALNET 3 Customer;
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 X
 No _____*

4.1.5.7 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 4.1.5.7 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 4.1.5.7. Table 4.1.5.7 – Stop Clock Conditions (SCC)

#		Stop Clock Condition (SCC)	SCC Definition
1		END-USER REQUEST	Periods when a restoration or testing effort is delayed at the specific request of the End-User. The SCC shall exist during the period the Contractor was delayed, provided that the End-User’s request is documented and time stamped in the Contractor’s trouble ticket or Service Request system and shows efforts are made to contact the End-User during the applicable Stop Clock period.

#		Stop Clock Condition (SCC)	SCC Definition
2		OBSERVATION	Time after a service has been restored but End-User request ticket is kept open for observation. If the service is later determined by the End-User to not have been restored, the Stop Clock shall continue until the time the End-User notifies the Contractor that the Service has not been restored.
3		END-USER NOT AVAILABLE	Time after a service has been restored but End-User is not available to verify that the Service is working. If the service is later determined by the End-User to not have been restored, the Stop Clock shall apply only for the time period between Contractor's reasonable attempt to notify the End-User that Contractor believes the service has been restored and the time the End-User notifies the Contractor that the Service has not been restored.
4		WIRING	Restoration cannot be achieved because the problem has been isolated to wiring that is not maintained by Contractor or any of its Subcontractors or Affiliates. If it is later determined the wiring is not the cause of failure, the SCC shall not apply.
5		POWER	Trouble caused by a power problem outside of the responsibility of the Contractor.
6		FACILITIES	Lack of building entrance Facilities or conduit structure that are the End-User's responsibility to provide.

#		Stop Clock Condition (SCC)	SCC Definition
7		ACCESS	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"> a. Access necessary to correct the problem is not available because access has not been arranged by site contact or End-User representative; b. Site contact refuses access to technician who displays proper identification; c. Customer provides incorrect site contact information which prevents access, provided that Contractor takes reasonable steps to notify End-User of the improper contact information and takes steps to obtain the correct information ; or, d. Site has limited hours of business that directly impacts the Contractor's ability to resolve the problem. 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.
8		STAFF	Any problem or delay to the extent caused by End-User's staff that prevents or delays Contractor's resolution of the problem. In such event, Contractor shall make a timely request to End-User staff to correct the problem or delay and document in trouble ticket.
9		APPLICATION	End-User software applications that interfere with repair of the trouble.
10		CPE	Repair/replacement of Customer Premise Equipment (CPE) not provided by Contractor if the problem has been isolated to the CPE. If determined later that the CPE was not the cause of the service outage, the CPE SCC will not apply.

#		Stop Clock Condition (SCC)	SCC Definition
11		NO RESPONSE	Failure of the trouble ticket originator or responsible End-User to return a call from Contractor's technician for on-line close-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		MAINTENANCE	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.
13		THIRD PARTY	Any problem or delay caused by a third party not under the control of Contractor, not preventable by Contractor, including, at a minimum, cable cuts not caused by the Contractor. Contractor's Subcontractors and Affiliates shall be deemed to be under the control of Contractor with respect to the equipment, services, or Facilities to be provided under this Contract.
14		FORCE MAJEURE	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 _____

4.1.5.8 TECHNICAL SERVICE LEVEL AGREEMENTS

The Contractor shall provide and manage the following Technical SLAs.

4.1.5.8.1 Availability (M-S)

SLA Name: Availability																					
Definition: The percentage of time a CALNET 3 service is fully functional and available for use each calendar month.																					
Measurement Process: The monthly Availability Percentage shall be based on the accumulative total of all Unavailable Time derived from all trouble tickets closed, for the 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.																					
Services:																					
SDRS																					
Objective(s): The objective shall be based on the access type:																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Basic (B)</th> <th style="text-align: center;">Standard (S)</th> <th style="text-align: center;">Premier (P)</th> <th style="text-align: center;">Bidder's Objective Commitment (B, S or P)</th> </tr> </thead> <tbody> <tr> <td>T1</td> <td style="text-align: center;">≥ 99.2%</td> <td style="text-align: center;">≥ 99.5%</td> <td style="text-align: center;">≥ 99.8%</td> <td style="text-align: center;">S</td> </tr> <tr> <td>DS3</td> <td style="text-align: center;">≥ 99.7%</td> <td style="text-align: center;">≥ 99.8%</td> <td style="text-align: center;">≥ 99.9%</td> <td style="text-align: center;">S</td> </tr> <tr> <td>OCx</td> <td style="text-align: center;">≥ 99.7%</td> <td style="text-align: center;">≥ 99.8%</td> <td style="text-align: center;">≥ 99.9%</td> <td style="text-align: center;">S</td> </tr> </tbody> </table>			Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B, S or P)	T1	≥ 99.2%	≥ 99.5%	≥ 99.8%	S	DS3	≥ 99.7%	≥ 99.8%	≥ 99.9%	S	OCx	≥ 99.7%	≥ 99.8%	≥ 99.9%	S
	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B, S or P)																	
T1	≥ 99.2%	≥ 99.5%	≥ 99.8%	S																	
DS3	≥ 99.7%	≥ 99.8%	≥ 99.9%	S																	
OCx	≥ 99.7%	≥ 99.8%	≥ 99.9%	S																	
Rights and Remedies	Per Occurrence: N/A																				
	<p>Monthly Aggregated Measurements: First month the service fails to meet the committed SLA objective shall result in a 15 percent rebate of the TMRC. The second consecutive month the service fails to meet the committed SLA objective shall result in a 30 percent rebate of TMRC. Each additional consecutive month the service fails to meet the committed SLA objective shall result in a 50 percent rebate of the TMRC.</p>																				

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

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

SLA Name: Catastrophic Outage 1 (CAT 1)				
Definition: Any SDRS service failure outside of the central office (or equivalent facility) that results in the total loss of service at a Customer site.				
Measurement Process: The Outage Duration begins when a network alarm is received by the Contractor from an outage-causing event or the opening of a trouble ticket by a Customer, or the Contractor, whichever occurs first. The Contractor shall open a trouble ticket for each service (Circuit ID) 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.				
Service(s):				
SDRS				
Objective (s): The objective restoral time shall be:				
				Bidder's Objective Commitment (B, S or P)
	Basic (B)	Standard (S)	Premier (P)	
SDRS	≤ 3 hours	≤ 2 hours	≤ 1 hour	S
Rights and Remedies	Per Occurrence: 100 percent of the TMRC for each End-User service not meeting the committed objective for each CAT 1 fault			
	Monthly Aggregated Measurements: N/A			

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

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

SLA Name: Catastrophic Outage 2 (CAT 2)				
Definition: Failure of any part of the equipment in a central office (or equivalent facility), other than access, that results in a CALNET 3 SDRS service failure.				
Measurement Process: The Outage Duration begins when a network alarm is received by the Contractor from an outage-causing event or the opening of a trouble ticket by the Customer or 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.				
Service(s):				
SDRS				
Objective (s): The objective restoral time shall be:				
				Bidder's Objective Commitment (B, S or P)
	Basic (B)	Standard (S)	Premier (P)	
SDRS	≤ 1 hour	≤ 30 minutes	≤ 15 minutes	S
Rights and Remedies	Per Occurrence: 100 percent of the TMRC for each End-User service not meeting the committed objective for each CAT 2 fault			
	Monthly Aggregated Measurements: N/A			

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

4.1.5.8.4 Excessive Outage (M-S)

SLA Name: Excessive Outage				
Definition: A service failure that remains unresolved for more than the committed objective level.				
Measurement Process: This SLA is based on trouble ticket Unavailable Time. The circuit or service is 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.				
Service(s):				
SDRS				
Objective (s): The Unavailable Time objective shall not exceed:				
	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B, S or P)
SDRS	16 hours	12 hours	8 hours	S
Rights and Remedies	Per Occurrence: 100 percent of the TMRC 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.			
	Monthly Aggregated Measurements: N/A			

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

4.1.5.8.5 Notification

SLA Name: Notification	
Definition: 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.	
Measurement Process: 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.	
Service(s): All Services	
Objective (s): 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.	
Rights and Remedies	Per Occurrence: Senior Management Escalation
	Monthly Aggregated Measurements: N/A

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

4.1.5.8.6 Provisioning (M-S)

SLA Name: Provisioning

Definition: Provisioning shall include new services, moves, adds and changes completed by the Contractor on or before the due dates. The Provisioning SLA shall be based on committed installation intervals established in this SLA or due dates negotiated between Customer and Contractor documented on the Contractor's order confirmation notification or Contracted Service Project Work SOW in accordance with IFB STPD 12-001-B 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).

Provisioning SLAs have two (2) objectives:

Objective 1: Individual Service Request; and

Objective 2: Successful Install Monthly Percentage by Service Type.

Note: Provisioning timelines include extended demarcation wiring, when appropriate.

Measurement Process:

Objective 1: Individual Service Request: 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.

Objective 2: Successful Install Monthly Percentage per service Type: 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.

Service (Features must be installed in conjunction with the service except when listed below)	Committed Interval Calendar Days	Coordinated/Managed Project
SDRS	45	Coordinated/Managed Project

Objective (s):

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.

	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (S or P)
SDRS	N/A	≥ 90%	≥ 95%	S

Rights and Remedies	Per Occurrence: Objective 1: Individual Service Requests: 50 percent of installation fee credited to Customer for any missed committed objective.
	Monthly Aggregated Measurements: 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 X
No _____

4.1.5.8.7 Unsolicited Service Enhancement SLAs

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

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

4.1.5.8.8 Proposed Unsolicited Offerings

The Contractor shall provide SLAs as defined in SLA Section 4.1.5 for each unsolicited offering determined by the CALNET 3 CMO not to be a feature of a service or a component of an unbundled service identified in the technical requirements. SLA tables shall be amended after Contract award to include all new unsolicited services.

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

4.1.5.8.9 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 4.1.5.8.

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