continuing south in a trench (250 feet) in Main Street, continuing south as an aerial cable on
existing poles (6.2 miles) along Main Street (State Route 68) to El Toro Creek, continuing south
and east on Route 68, continuing northwest in a trench (400 feet) in Route 68, northwest in a
trench (2,600 feet) in Canyon Del Rey Road (State Route 218), continuing northwest as an aerial
cable on existing poles (1,600 feet) along Route 218, continuing northwest in a trench (1,100 feet)
in Route 218, continuing west as an aerial cable on existing poles (1 mile) along Route 218, north
on Fremont Boulevard, west on Broadway Avenue to Sand City, then north in a trench (400
feet) in Contra Costa Street, and west in a trench (400 feet) in Shasta Avenue to the POP.

The POP in Sand City would be a cable station established by Global Photon in an existing
warehouse on Shasta Avenue. The cable station would require approximately 1,500 square feet
for project equipment with up to 1,500 square feet of additional space for customer equipment.
The cable station would be unmanned except for periodic maintenance and equipment checks.

2.4.3 Monterey Bay Area

A deep submarine canyon, known as Monterey Canyon, cuts into the sea bottom from the
mouth of Elkhorn Slough westward across Monterey Bay and extends many miles out to sea
(see Figures 3.6-2 and A-4). The canyon has steep side slopes and intensive sediment turbidity
flows. Although it may be possible to lay a submarine cable across the canyon, reliability and
long-term survivability are questionable. Therefore, prudent marine cable engineering advises
against an undersea cable crossing of Monterey Canyon. Instead, it is proposed that the cable
would land north of Monterey Canyon, bypass the submarine canyon on land, and return to sea
south of the canyon.

Thus, two landing sites are necessary in the Monterey Bay area, one north of the canyon and
one south of the canyon. From these landing sites, the cable would follow roads and railroad
ROWs and overhead utility alignments to a POP in Sand City, which is located just east of
Monterey. The following sections describe the north and south Monterey Bay landing sites, the
Monterey Bay onshore route that would connect the two landings, and an alternative south
landing site at Point Lobos.

2.4.3.1 North Monterey Bay Landing

The north Monterey Bay landing site is in the community of La Selva Beach in southern Santa
Cruz County. La Selva Beach is just north of Manresa State Beach as shown on Figure B-4A.
The HDD conduit would come ashore at a new manhole in a private parking lot, as shown on
Figures D-2A and D-2B. The parking lot, which is off of Breve Benito Avenue, is a beach access
point for local residents.

2.4.3.2 Monterey Bay Onshore Route

The Monterey Bay onshore route begins at the north Monterey Bay landing site just south of
Santa Margarita Creek in the community of La Selva Beach. The route follows roadways and
overhead utility alignments through rural and urban areas of Santa Cruz and Monterey
counties and the cities of Marina, Seaside, and Sand City to the POP in Sand City. The cable
would then double back along a portion of the same route to terminate at the south Monterey
Bay landing site at the former Fort Ord military base. The route is shown on Figures 2.4-4A
through 2.4-4C. For more detailed mapping, see Figures B-4A through B-4J.
J.7 Fiber Route Map

Global Photon’s Global West Network connects the central downtown regions of San Francisco, San Jose, Monterey, San Luis Obispo, Santa Barbara, Los Angeles and San Diego.

Features of the Global West Network:
- Undersea “festoon” network – smallest cable ever on US coast; no electrical power in cable
- Connects 7 cities – self-healing ring including Silicon Valley & surrounding the San Francisco Peninsula; optional connection in Salinas
- “Lights-up” coastal cities – 4 Terabits/sec data rate using infinitesimal laser pulses; includes under-served Monterey and Santa Barbara.