



Attachment A
Flood Development Permit Application
For the JUPITER Submarine Cable Installation
Tillamook County, Oregon

Description of Work:

Edge Cable Holdings USA, LLC proposes to install the Jupiter Submarine Cable System (or “JUPITER”), a high-speed fiber-optic cable system providing large capacity direct link between the continental United States and Asia (Japan and the Philippines), crossing the Pacific Ocean. The cable will be trenched in the seafloor where possible, landing at Lot 3200, 28560 Sandlake Road, Cloverdale, Oregon 97112 (Figure 1). Upon landing on Lot 3200 via a horizontal directional drill (HDD) bore pipe, the cable will be fed into a newly installed beach manhole (BMH), and then from the site, into a terrestrial conduit to an existing Cable Landing Station in Pacific City.

The sub-oceanic HDD work will start at a newly installed BMH located on the landward side of the fore dune on Lot 3200 (Figure 2). Two HDD bores will extend to approximately 0.43 miles and 0.6 miles offshore, respectfully. One HDD bore will result in the placement of a 5-inch submarine bore pipe for the JUPITER cable to feed through. A second HDD bore will be drilled to allow for installation of a future, yet to be determined, fiber-optic cable. This HDD effort will provide the terrestrial-to-marine interface to minimize possible disturbances to the beach area and nearshore environment.

The HDD profiles will be at least 30 feet below dune grade, in accordance with Oregon State requirements, while also providing maximum protection to cables in the surf zone. It will take approximately 65 working days to complete the BMH installation and both HDD activities, depending on weather conditions and if implementation of contingency measures are required (e.g., frac-out occurs). Upon completion of the HDD operations, areas surrounding the BMH will be revegetated.

Site preparations on Lot 3200 will include grading of an approximately 19,000-square foot of work area, including site access improvements from Sand Lake Road (Figure 3). All proposed construction activities will be at or below grade:

1. For the BMH, approximately 14-foot x 12-foot x 12-foot will be excavated, removing 74.6 cubic yards (2,016 cubic feet) of fill. Any excess excavated material disposed of offsite.
2. The temporary excavation for the HDD bore pit will include excavation of an approximately 4 foot x 10 foot x 10 foot area, removing approximately 14.8 cubic yards (400 cubic feet). The bore pit will be backfilled with the excavated material upon installation of the BMH.
3. Up to 33.1 cubic yards (894 cubic feet) will be excavated for the installation of the cable conduit trench. Two 4-inch conduits will be placed inside the trench. The total conduit volume will be 1 cubic yard (26 cubic feet). The excavated trench will be backfilled with the previously excavated material, excluding the 26 cubic feet of conduit fill, leaving 26 cubic feet of material to be removed from site.

Upon completion of the BMH and conduit installation, the intent is to restore the site to its pre-construction survey elevations.