**Added language and clarifications are in RED text below.**

**Fiber Patch Panels: All fiber patch panels are to be Corning, size determined by fiber count installed, as specified on page 15 of the RFP. Do Not use LGX.**

**Fiber Connectors: Use SC-APC.**

**Connection 1: St. Rt. 31 and Millwood Blvd Intersection east to St. Rt. 4 and County Home Rd Intersection, then continuing east along County Home Rd to**

**Simmons Lane:**

**Part A: St. Rt. 31 and Millwood Blvd Intersection east to Intersection of**

**St. Rt. 4 and County Home Rd.** Furnish and install a 144 strand single mode fiber optic cable only, **utilizing conduit that is already installed**. Hand holes to be installed at St. Rt. 31 and Millwood Blvd Intersection (east side) and St. Rt. 4 and County Home Rd Intersection (west side), **then additional new hand holes** approximately every 650 feet between intersections. **Splice 48 strands into existing fiber at St Rt 31 and Millwood Blvd intersection.**

**Part B: St. Rt. 4 and County Home Rd Intersection east along County Home Rd to Simmons Lane.** Furnish and install a 144 strand single mode fiber optic cable plus conduit for all underground portions. **REMOVE:** **~~Furnish and~~** **~~install new fiber patch panel~~**. Beginning at the newly installed hand hole on west side of St. Rt. 4 and County Home Rd intersection proceeding east under St. Rt. 4 to new hand hole **(to be installed)** located on east side of intersection. Then proceeding east aerially, overlashing existing UCCOG fiber, along County Home Rd to **new hand hole to be installed in front of** City of Marysville Decker Fire Station. Then underground from Decker Fire Station hand hole to new hand hole **(to be installed)** located on west side of Simmons Lane, then continuing underground to new hand hole **(to be installed)** on east side of Simmons Lane. **Splice 24 strands into new fiber installed under Connection 1 Part A.**

**Connection 2: St. Rt. 4 and County Home Rd Intersection north along St. Rt. 4 to City of Marysville Water Tower**: Furnish and install a 144 strand single mode

fiber optic cable plus conduit for all underground portions. Beginning at the

new hand hole (installed during Connection 1, Part B) located at the

intersection of St. Rt. 4 and County Home Rd (northeast side), then

proceeding north along St. Rt. 4 to new hand hole **(36”x48” sized with splice enclosure to be installed)** located at the Marysville Water Tower drive (south side of driveway), then proceeding underground

east to newly installed fiber patch panel located inside the base of water

tower. Additional hand holes to be installed along the St. Rt. 4 entrance

drives to:

● Union County Agricultural Services Bldg

● Union County Juvenile Detention center

**Furnish and install new fiber patch panel in water tower base. Splice 24 strands fiber for fiber run portion beginning at water tower driveway entrance along St Rt 4 new hand hole to water tower base. Terminate 12 strands fiber into fiber patch panel.**

**Connection 3: Marysville High School Bldg (800 Amrine Mill Rd) northwest to City of Marysville Pedestrian Bridge:** Furnish and install a 144 strand single

mode fiber optic cable plus conduit for all underground portions. Furnish

and install new fiber patch panel. Beginning at new fiber patch panel inside

MDF located near the northeast area of the Marysville High School bldg,

then proceeding **to a newly created building entrance** located at the

northeast corner of the Marysville High School bldg, then proceeding

northwest to a new hand hole at the City of Marysville Pedestrian Bridge

(south side), then proceeding north under bridge to a new hand hole on

north side of City of Marysville Pedestrian Bridge. **Terminate 24 strands fiber into new fiber patch panel. Fiber to be lashed under Pedestrian bridge. New hand holes to be installed on north side and south side of bridge. The entrance into the high school will be more than 50’ which will require the use of a plenum rated (144f) cable for interior. Transition splice 72 strands between the OSP and ISP cable to be made in a new hand hole directly outside building.**

**Connection 4: Union County Services Building (940 London Ave) west to London**

**Ave and Windsor Dr Intersection continuing west to Milford Ave then**

**north to Maple St. continuing to the Intersection of Sixth St and Maple**

**St**: Furnish and install a 144 strand single mode fiber optic cable, including

conduit for all underground portions. Furnish and install new fiber patch

panel. Beginning at newly installed fiber patch panel located in the Union

County Services Bldg MDF, then proceeding to a newly created entrance

located at the southeast corner of Union County Services Bldg, continuing

underground to the intersection of London Ave and Windsor Dr, **then**

**proceeding west underground when no existing poles are available** to Milford Ave (along route recommended by vendor), then continuing north aerially **overlashing to existing UCCOG fiber and using existing conduit for portions** along Milford Ave to Maple St to the intersection of Maple St and Sixth St to a new hand hole **(to be installed) at the southwest corner** of intersection. **Terminate 24 strands fiber into new fiber patch panel. Splice 12 strands fiber into existing fiber at intersection of Maple Ave and 6th St into the fiber running east along 6th St.**

**Connection 5: Oakdale Cemetery west to U.S.33**: Furnish and install a 144 strand single mode fiber optic cable, including conduit for all underground portions.

Beginning at existing hand hole located at West Fifth St. entrance of

Oakdale Cemetery then along West Fifth Street west to new hand hole to

be located on (east side) of U.S.33. **Splice 24 strands fiber into the existing 72 strands fiber at existing hand hole starting point described above.**

**Connection 6: Union County Agricultural Center Building (18000 St. Rt. 4) west to**

**hand hole at St. Rt. 4**: Furnish and install 72 strand single mode fiber optic

cable, including conduit for all underground portions. Furnish and install

new fiber patch panel. Beginning at newly installed fiber patch panel

located in the Union County Agricultural Bldg MDF, proceeding within

building along route recommended by vendor to newly created building

entrance, continuing underground west to new hand hole along St. Rt. 4

(installed during Connection 2). **Terminate 12 strands into the new fiber patch panel. Splice 12 strands into new St Rt 4 hand hole described above. If the proposed route within the building is more than 50’, the fiber cable will need to be plenum rated and a transition splice made.**