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Fiber Construction/Splicing/Network Gear Project Estimate Sheet

| | | | |
|------------------|---------------------------------|-----------|--|
| Project Name: | Twin Lakes Village FTTH Project | | |
| City: | Rathdrum - Twin Lakes, ID | Est. Date | |
| Contractor Name: | Contractor Contract Name: | | |
| Phone: | Email: | | |

SOW: Bore, Trench and place 2" pipe along with associated vaults/handholes along path as shown on kmz map.

| Unit Description | Unit of Measure | Unit Price | Units | Total Cost |
|--|-----------------|------------|--------|------------|
| Construction Labor | | | | |
| Backbone Fiber | | | | |
| Boring, Place 1 - 2" Pipe | Foot | | 16,860 | \$ - |
| Place 17x30x24 Concrete Composite Vault | Each | | 50 | \$ - |
| Place 13x24x18 Concrete Composite Vaults | Each | | 120 | \$ - |
| Pulling Fiber cable, MSTs and Drops Locatable Mule Tape Included | Foot | | 26,370 | \$ - |
| Splicing Labor - Backbone Fiber | | | | |
| Ring Cut Splice, add lateral-Build Splice Case | Each | | 20 | \$ - |
| Butt Splice | Each | | 10 | \$ - |
| Splice Fiber | Each | | 420 | \$ - |
| Fiber Testing (Lump Sum) | Each | | 1 | \$ - |
| | | | | \$ - |
| Cabinet Site | | | | |
| Boring, Place 1 - 2" Pipe | Foot | | 60 | \$ - |
| Plow Pipe, 1 - 2" Pipe-36" Min depth | Foot | | 655 | \$ - |
| Trenching, Place 1 - 2" Pipe-36" Min depth | Foot | | 164 | \$ - |
| Trenching, Place 4 - 4" Pipes-36" Min depth | Foot | | 20 | \$ - |
| Grubbing and Clearing | Sq Yd | | 45 | \$ - |
| Prep and Pour Concrete Pad (60"x60"x6") | Sq Foot | | 25 | \$ - |
| Place 30x48x36 Concrete Composite Vault | Each | | 1 | \$ - |
| Place 17x30x24 Concrete Composite Vault | Each | | 1 | \$ - |
| Remove 17x30x24 Vault, Place 24x36x36 Concrete Composite Vault | Each | | 1 | \$ - |
| Pulling Fiber and Locatable Mule Tape | Foot | | 1200 | \$ - |
| Place Power Meter Pedestal | Each | | 1 | \$ - |
| Electrical Work (Lump Sum) | Each | | 1 | \$ - |
| Splicing Labor - Cabinet Site | | | | |
| Ring Cut Splice, add lateral-Build Splice Case | Each | | 1 | \$ - |
| Butt Splice | Each | | 1 | \$ - |
| Build and install 2RU Panel | Each | | 1 | \$ - |
| Splice Fiber | Each | | 48 | |
| Fiber Testing (Lump Sum) | Each | | 1 | \$ - |
| | | | | \$ - |

| | | Total Labor | \$ | - |
|---|------|-------------|--------|------|
| Materials | | | | |
| 2" SDR11 HDPE Pipe | Foot | | 17,500 | \$ - |
| 4" SCH 40 PVC Pipe | Foot | | 40 | \$ - |
| 4" SCH 40 PVC Sweeps | Each | | 4 | \$ - |
| | | | | |
| | | | | |
| Gravel 3/4 minus | Ton | | 17 | \$ - |
| Pre-Mix Concrete | Yard | | 1 | \$ - |
| 30x48x36 Concrete Composite Vault | Each | | 1 | \$ - |
| 24x36x36 Concrete Composite Vault | Each | | 1 | \$ - |
| 17x30x24 Concrete Composite Vault | Each | | 50 | \$ - |
| 13x24x18 Concrete Composite Vaults | Each | | 120 | \$ - |
| 200 Amp Power Meter Pedestal | Each | | 1 | \$ - |
| Tyco C-Case w/Trays | Each | | 2 | \$ - |
| Tyco B-Case w/Trays | Each | | 30 | \$ - |
| FIS 2RU Rack Mount Panel (72ct) Loaded with SC/APC Bulkheads and Pigtailed | Each | | 1 | \$ - |
| 72ct SM, Single Armor, Loose Tube, Corning 28e Glass | Foot | | 11,200 | \$ - |
| 1250 # Locatable Mule Tape | Foot | | 17,500 | \$ - |
| Cabinets | | | | \$ - |
| Outdoor Equipment Telcom Cabinet; Nema 4 Equivalent; 19" rack; 26U or taller, Heating & A/C, DC Rectifier, Dule Feed, Two Phase, Controller for Rectifier, 48V DC Battery System, | Each | | 1 | \$ - |
| 1 - 4 U Fiber Splice Tray | Each | | 1 | \$ - |
| 144ct Splitter Cabinet, Pad or Vault Mount | Each | | 3 | \$ - |
| Network Gear | | | | \$ - |
| Calix E7-2 10G AXOS E7-2 XG801 XGS-PON (2xQSFP-DD, 4xSFP+, 8xXGS-PON/GPON OIM) | Each | | 1 | \$ - |
| Calix OIM 10GE Transport 10GE SFP+, Single Mode dual fiber transceiver, 10Km, 1310nm, LC, I-temp | Each | | 1 | \$ - |
| Calix OIM 10G PON XGS-PON SFP+, 10G/10G, Class N1, 1577/1270nm, Single Fiber Transceiver, 20km, I-Temp, OLT, E-Series | Each | | 8 | \$ - |
| Calix E7 E7-2 Field Install Package (CO & ODC/RT): Shelf with Blank Card, FTA, and Field installation Kit | Each | | 1 | \$ - |

| | | | | |
|---|---------------------------------|--|-----|-------------|
| Calix EXOS ONT GP1100X GigaPoint, 1 2.5GE, 1 POTS - AM Power Adapter | Each | | 300 | \$ - |
| | | | | \$ - |
| | Total Material | | | \$ - |
| | Material Handling Charge | | | \$ - |
| | Total Materials | | | \$ - |
| Total Project Labor and Materials | | | | \$ - |