

# Feasibility and Opinion of Probable Cost -

# Fiber Optic Backbone Extension and Connectivity of Strategic Community, City and County Facilities

#### Prepared for:

Grant County Digital Network Coalition 450 East Main St John Day, OR 97845







Prepared by:



811 Railroad Avenue | Oregon City, OR 97045 | 503.343.4134 www.commstructureconsulting.com

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#### Introduction

The Grant County Digital Network Coalition, the City of John Day and Oregon Telephone Company (OTC) have requested a feasibility study and opinion of probable cost (OPC) for Fiber Optic Backbone Extension and Connectivity of Strategic Community, City and County Facilities. The envisioned outcome of this project will be to expand the development of an open-access network to support connectivity to various community and public agency facilities in the region. The network expansion will also support greater resiliency and redundancy of critical government and first responder communications in the event of natural disasters and emergency situations. The proposed network expansion will also allow for efficient information distribution to the general public for potential emergency events.

This report outlines conceptual and preliminary aerial and underground fiber optic infrastructure routes and design for six (6) county and/or city facilities that were identified for consideration along with strategic routing that creates access points for future laterals and connections. In addition, this report outlines two (2) fiber optic infrastructure routes for Oregon Telephone Company. A construction and design cost estimate was completed using the preliminary KMZ design and is summarized by location herein.

The following includes an overview of the proposed service locations as well as the cost estimate to design and build each connection.

The proposed additions to the network are as follows:

- Grant County Digital Network Coalition (GCDNC)
  - Grant County Regional Airport (Shared with OTC)
  - Humbolt Elementary School
  - · Grant County Circuit Court and Sheriff
  - Innovation Gateway
  - John Day Aquatic Center
  - Blue Mountain Hospital (two (2) options are presented)
- Oregon Telephone Company
  - Valley View
  - City of John Day Expansion

Included in the feasibility study is a summary of the proximity of these facilities to existing and proposed backbone infrastructure and the challenges involved in the connection. This report also provides budgetary design and construction cost estimates including both underground and aerial infrastructure options for each site as well as an overview map of the proposed connection routing.

#### Grant County Regional Airport - GCDNC & OTC

Both the Grant County Digital Network Coalition and the Oregon Telephone Company plan to install fiber to the Grant County Regional Airport and surrounding areas. Grant county will utilize an existing slack near the fire station at 316 S Canyon Blvd and follow an existing aerial path on SW 3<sup>rd</sup> towards the airport. This aerial path passes residential developments

and a City Water Reservoir at SW 4<sup>th</sup> St & Airport Rd. Aerial cable slack and access points will be built at strategic locations in order to service these locations in the future. The route will also leverage existing conduit to extend fiber to the industrial park west of the airport on Industrial Park Rd. The existing conduit crosses underneath the N/S runway and will be utilized with new fiber and vaults set for future access. Continuing south towards the airport, the pole line ends and there would be a transition to underground construction to enter the ESD and Airport communications structure. The fiber termination will be within the shelter.

Oregon Telephone Company and GCDNC would utilize some of the same pathways including the aerial access to S Canyon Blvd and the existing conduit crossing underneath the airport runway. As a part of this project, OTC would also install conduit infrastructure on Skyline Drive and SW 4<sup>th</sup> Street including handholes for future access. This scope would also expand the communications network on Industrial Park Road including the installation of multiple access points.

The cost breakdown is as follows:

 Installation:
 \$ 345,800.00

 Engineering:
 \$ 28,000.00

 Prevailing Wage (15%):
 \$ 51,870.00

 Contingency (10%):
 \$ 34,580.00

Total Estimated Cost: \$ 460,250.00

Please see the Appendix for detailed information on the cost estimates and a map of the proposed connection.

#### Humbolt Elementary

Humbolt Elementary school is less than a half mile south of Grant Union High School and the existing backbone along John Day Burns Hwy / US 395. The backbone will be extended from this location south up to Inland Dr. At that intersection, there will be an aerial lateral built to the west and then south towards the elementary school. There is an existing aerial communications drop coming from Brent Ln to the building and this proposal includes a new fiber optic service drop to mirror the existing at a different point of attachment on the pole. The termination will be within the school at the telephone/communications room.

The cost breakdown is as follows:

 Installation:
 \$ 26,930.00

 Engineering:
 \$ 13,000.00

 Prevailing Wage (15%):
 \$ 4,039.50

 Contingency (10%):
 \$ 2,693.00

Total Estimated Cost: \$ 46,662.50

Please see the Appendix for detailed information on the cost estimates and a map of the proposed connection.

#### **Grant County Circuit Court and Sheriff**

This route will tie into and further extend the backbone build contained within the Humbolt Elementary extension. The new backbone will continue south along John Day Burns Hwy / US 395 up to Washington St. The poles in the area along Main St and Scenic Dr will require some further investigation to determine the optimal route due to lack of continuity of existing power utility poles.

The County courthouse, Corrections and sheriff will be fed underground from the utility pole line on S Humbolt St to the west side of the buildings. For the purposes of the feasibility report, the estimate includes two (2) separate building entries. If it is determined that a viable connection exists between the two facilities, there may not be a need for a second building penetration resulting in a reduction of cost.

The cost breakdown is as follows:

 Installation:
 \$ 79,210.00

 Engineering:
 \$ 21,000.00

 Prevailing Wage (15%):
 \$ 11,881.50

 Contingency (10%):
 \$ 7,921.00

Total Estimated Cost: \$ 120,012.50

Please see the Appendix for detailed information on the cost estimates and a map of the proposed connection.

#### Innovation Gateway

The City of John Day has drafted a conceptual master plan for the Innovation Gateway; a comprehensive community development project including restoration of the John Day River along with new and renovated facilities along US 26 at the former mill site. The intention of this backbone build is to expand the network footprint and prepare the site with dark fiber so that the new and rehabilitated buildings have connectivity and access upon completion of construction. This route will also provision for future connectivity of the planned Public Works facility and Water Treatment Plant.

The proposed route will tie into an existing aerial fiber backbone near the corner of N Canyon Blvd and NE 1<sup>st</sup> Ave. An access point is proposed intended for a connection to the Kam Wah Chung State Heritage Site currently in the design phase for expansion and rehabilitation by the State of Oregon. From this location, the aerial path extends west along US 26 up to the location of the proposed Innovation Gateway site and future Public Works facility. A new vault is proposed at the entrance to the south of the pavilion / events space. The list of buildings to be serviced include the public works building, the greenhouse, events space, proposed hotel, water garden, proposed office building and proposed wastewater treatment plant. A handhole will be set adjacent to each building / site for future access to the dark fiber network.

The cost breakdown is as follows:

Installation: \$ 209,560.00 Engineering: \$ 26,000.00 Prevailing Wage (15%): \$ 31,434.00 Contingency (10%): \$ 20,956.00

Total Estimated Cost: \$287,950.00

Please see the Appendix for detailed information on the cost estimates and a map of the proposed connection.

#### City of John Day Aquatic Center / Sports Complex

The proposed City of John Day Aquatic Center and existing Sports Complex is located near the northeast corner of NE 7<sup>th</sup> and NW Bridge St. Connection to this facility is feasible by a combination of underground and aerial infrastructure. The construction of this route is to be constructed off the Innovation Gateway backbone at NW 3<sup>rd</sup> Ave and NW Bridge St. The proposed backbone will pass by KJDY radio and the Grant County Fairgrounds Complex with new access points provisioned for these county and public facilities. It is assumed that each of these facilities will be an aerial lateral and connection. The route will continue north to the City Well and pumping station north of NW 7<sup>th</sup>. At that point the route transitions to an underground build west and north to provide future access to the new aquatic center and existing sports complex.

The cost breakdown is as follows:

 Installation:
 \$ 37,595.00

 Engineering:
 \$ 12,000.00

 Prevailing Wage (15%):
 \$ 5,639.25

 Contingency (10%):
 \$ 3,759.50

Total Estimated Cost: \$58,993.75

Please see the Appendix for detailed information on the cost estimates and a map of the proposed connection.

#### Blue Mountain Hospital (Option 1)

Connection to Blue Mountain Hospital is feasible by a combination of underground and aerial infrastructure. The connection point to the network will be along the aerial portion of the Innovation Gateway backbone build at US 26 and NW 3<sup>rd</sup> Ave. Option 1 consists of attaching to an existing pole line along US 26 and turning west up the hill to the Hospital. Due to lack of continuity of existing power utility poles, the path is approximate for the purposes of this feasibility report. This existing aerial route extends to the parking lot where there would be a transition to underground construction into the building. A new vault will be installed as an access point for future connectivity to the US Forest Service Complex and other medical and public facilities in this area. Fiber terminations will be made in the telecommunications room inside the Hospital.

The selected utility pole line is adjacent to and directly in front of existing commercial building storefronts along US 26. As with any above grade utilities within the public right of way, there is a risk of vehicle accidents that may cause damage to the fiber infrastructure or road improvement projects that may require future relocation or conversion to underground.

For this reason, there is a second option below that includes an alternate for underground construction in lieu of the aerial path along US 26.

The cost breakdown is as follows:

\$ 23,955.00
\$ 11,000.00
\$ 3,593.25
\$ 2,395.50

Total Estimated Cost: \$40,943.75

Please see the Appendix for detailed information on the cost estimates and a map of the proposed connection.

#### Blue Mountain Hospital (Option 2)

The following is option number 2 for expanding the existing fiber optic infrastructure to Blue Mountain Hospital from the proposed backbone along US 26. Option 2 also connects to the proposed backbone for the Innovation Gateway project. As detailed earlier in the report, this route includes additional underground construction to avoid the existing fragmented pole line on US 26. The underground path will include multiple access points for future connections to nearby public and commercial infrastructure and mitigate potential future relocation. Option 2 picks up the aerial pathway from option 1 at the first pole west of the US 26 right of way. From there the path into the Hospital building is the same as option 1.

Option 1 is feasible but contains the potential for permitting difficulty and the risk of lower network reliability due to possible vehicle accidents or relocation due to development. Although the construction costs are higher for option 2, it is recommended due to the lower risk, reduced maintenance and network reliability.

The cost breakdown is as follows:

Installation:	\$ 58,455.00
Engineering:	\$ 12,000.00
Prevailing Wage (15%):	\$ 8,768.25
Contingency (10%):	<u>\$ 5,845.50</u>

Total Estimated Cost: \$85,068.75

Please see the Appendix for detailed information on the cost estimates and a map of the proposed connection.

#### OTC - Valley View

Oregon Telephone Company (OTC) plans to extend their infrastructure to the subdivision on Valley View Drive. The Valley View expansion is to be owned and operated by OTC and consists of approximately 7,800' of new underground conduit including the installation of

multiple access points. The proposed pathway would include a portion of Patterson Bridge Road.

The cost breakdown is as follows:

Installation:	\$ 383,550.00
Engineering:	\$ 26,000.00
Prevailing Wage (15%):	\$ 57,532.50
Contingency (10%):	\$ 38,355.00

Total Estimated Cost: \$505,437.50

Please see the Appendix for detailed information on the cost estimates and a map of the proposed connection.

#### OTC - City of John Day Expansion

The OTC expansion includes the installation of both aerial and underground fiber optic infrastructure. This expansion within the City of John Day is to be owned and operated by OTC. The design would provide a connection to reach the Department of Forestry campus near Blue Mountain Hospital. This proposal also includes fiber optic infrastructure along N Canyon Blvd and NE Dayton St North of US 26. A portion of the route would be placed along existing City fiber.

The cost breakdown is as follows:

Installation:	\$ 92,325.00
Engineering:	\$ 17,000.00
Prevailing Wage (15%):	\$ 13,848.75
Contingency (10%):	\$ 9,232.50

Total Estimated Cost: \$ 132,406.25

Please see the Appendix for detailed information on the cost estimates and a map of the proposed connection.

#### **Combined Section Totals**

The following is a summary of combined total cost for all segments. The total includes the recommended option for the Blue Mountain Hospital extension and connection. The total estimated cost is the combined best average for the routes since one of the connections has a lower cost alternative.

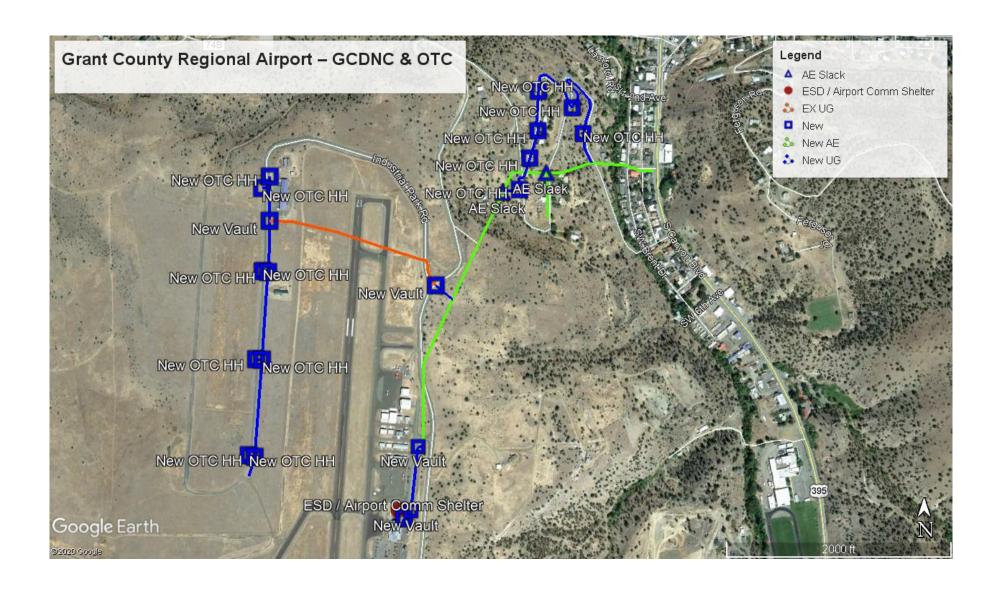
Combined Installation:	\$ 1,233,425.00
Combined Engineering:	\$ 155,000.00
Prevailing Wage (15%):	\$ 185,013.75
Contingency (10%):	\$ 123,342.50

Combined Total Estimated Cost: \$ 1,696,781.25

# Appendix: Detailed Cost Data and Connection Route Maps

### Grant County Regional Airport – GCDNC & OTC

Underground:					- 1	Airport-GCI	DNC+OTEC
Description	Туре	Unit	Labor	Materials	Total Unit	Qty.	Total Cost
Frenching - Native B/F	Native BIF 2 PVC						
renching - Native B/F		LIN FT					
renching A/C - Select B/F	2" PVC	LIN FT	\$ 22.00	\$ 10.00	\$ 32.00	300	\$ 9,600.0
		LIN FT	\$ 24.00	\$ 12.00	\$ 36.00		\$ -
Frenching A/C - CDF B/F							
Frenching A/C - CDF B/F							
Directional Boring	2" Diameter	LIN FT					
Directional Boring	4" Diameter	LIN FT	\$ 20.00	\$ 5.00	\$ 25.00		\$ -
Directional Boring A/C	2" Diameter	LINET				6.360	
Directional Boring A/C						0,000	
/ault Installation						3	
land Hole - Concrete	264 TA	EACH	\$ 2,000.00	\$ 1,500.00	\$ 3,500.00		\$ -
land Hole - Composite	24x36	EACH	\$ 1,750.00	\$ 875.00	\$ 2,625.00	15	\$ 39,375.0
land Hole - Composite	17x30	FACH					
licro-Duct Install in 2"							
nnerduct Installation							
Cable Pulling	exist / new - vacant	LIN FT	\$ 2.50	\$ 0.50	\$ 3.00	6,660	\$ 19,980.0
Cable Pulling	existing - occupied	LIN FT	\$ 3.50	\$ 0.50	\$ 4.00	1.700	\$ 6,800.0
Rock Trenching Adder						.,	
						200	
Rock Boring Adder						200	
CBD Adder	CBD Urban Premium	LIN FT	\$ 125.00	\$ 25.00	\$ 150.00		\$ -
				Undergro	ound Sub-Total:		\$ 301,775.0
erial:							
Aerial - New Construction	New Construction	LIN FT	\$ 5.00	\$ 1.00	\$ 6.00	4,250	\$ 25,500.0
Aerial - Overlash - De/Re							
						500	
erial - Wreckout							
Place Strand	6.6M	LIN FT					
Place Riser	2"	EACH	\$ 300.00	\$ 250.00	\$ 550.00	4	\$ 2,200.
Place Riser							
Place Pole							
asement	Private	EACH		\$ -			
Make Ready	Raise-Move-Lower	EACH	\$ 250.00	\$ 50.00	\$ 300.00	6	\$ 1,800.0
				A	erial Sub-Total:		\$ 30,850.0
acility Connection:							
wilding Enter April Mont	2" CDC/ \M/I	EACH	ê 500.00	ê 250.00	6 050.00		•
Building Interior Raceway	1-1/4" Flex Conduit	LIN FT	\$ 10.00	\$ 2.00	\$ 12.00		\$ -
Building Interior Raceway	4" EMT	LIN FT	\$ 15.00	\$ 15.00	\$ 30.00		\$ -
Pull Boxes - NEMA3R							
Pull Boxes - NEMA3R							
Core Drill	2"	EACH	\$ 300.00	\$ 50.00	\$ 350.00		\$ -
Core Drill	4"	EACH	\$ 500.00	\$ 50.00	\$ 550.00		\$ -
nnerduct Installation	3 - 1 1/4" SDR13 5						
Cable Pulling							
Cable Pulling	existing - occupied	LIN FT	\$ 3.00	\$ 0.50	\$ 3.50		\$ -
Comm Shelter (POP)	12x20 Pre-Fab	EACH	\$ 40,000.00	\$ 50,000.00	\$ 90,000.00		\$ -
Generator / Power Supply		FACH					\$ -
Site Prep					,		
			,		,		
able, Splicing and Term	ination:						
Splicing	Reel End Fusion	EACH	\$ 27.00	\$ 3.00	\$ 30.00		\$ -
Splicing						6	
						U	
Splicing				\$ 8.00			
Splicing							
Splicing Technician	\$ 80 + \$ 40 Truck	T&M	\$ 120.00		\$ 120.00		\$ -
Splicing Technician OT							
Patch Panels				\$ 150.00			
						,	
Patch Panels	12F	EACH		\$ 200.00	\$ 200.00	1	\$ 200.
Patch Panels	24F	EACH		\$ 250.00			\$ -
Patch Panels	48F	EACH		\$ 450.00	\$ 450.00		\$ -
Patch Panels	72F	EACH		\$ 550.00	\$ 550.00		\$ -
	96F				\$ 650.00		^
Patch Panels		EACH					
iber Cable	6F	EACH		\$ 0.50	\$ 0.50		\$ -
iber Cable	12F	EACH		\$ 0.50	\$ 0.50		\$ -
iber Cable	24F	LIN FT		\$ 0.65	\$ 0.65		\$ -
iber Cable	48F	LIN FT		\$ 0.75	\$ 0.75	13,300	\$ 9,975.
						10,000	
iber Cable	72F	LIN FT		\$ 1.25	\$ 1.25		\$ -
iber Cable	96F	LIN FT		\$ 1.50	\$ 1.50		\$ -
iber Cable	144F Micro	LIN FT		\$ 1.10			\$ -
			Cable, Splic	ing and Termin	ation Sub-Total:		\$ 13,175.
Project Totals by Segmen	<u>1L.</u>			Under	ground Section:		\$ 301,775.0
lotes:				Onder	Aerial Section:		\$ 301,773.0
10103.				Escilitu Com			\$ 30,000.0
			Cable S-		nection Section: ination Section:		\$ - \$ 13,175.0
			Capie, Sp			-	
			All Sections	Combined Con	struction lotals:1 1		\$ 340.8UU.I
			All Sections	Combined Con	struction lotals:		\$ 345,800.0
				Combined Con gineering Cost:	Est.		\$ 28,000.0
			En				
			En	gineering Cost:	Est.		\$ 28,000.



## **Humbolt Elementary School**

Underground:									Humb	olt E	lementar
Description	Туре	Unit		Labor		Materials	7	otal Unit	Qty.		otal Cost
T 1: N.C. D/F	OII DI (O		•	40.00	_	4.00	^	40.00		^	
Sable Pulling		-									
											-
									-		-
											-
									-		-
											-
									-		-
											-
									-		-
									-		-
									-		-
											-
											-
											-
											-
nnerduct Installation	4 - 1" SDR13.5	LIN FT	\$	5.00		3.00	\$	8.00			-
Cable Pulling	exist / new - vacant	LIN FT	\$	2.50	\$	0.50	\$				-
Cable Pulling	existing - occupied	LIN FT	\$	3.50	\$	0.50	\$	4.00		\$	-
Rock Trenching Adder	Up to 24" Deep	LIN FT	\$	23.00	\$	2.00	\$	25.00		\$	-
Rock Boring Adder	Up to 24" Deep	LIN FT	\$	43.00	\$	2.00	\$	45.00		\$	-
CBD Adder											-
											-
erial:											
erial - New Construction	New Construction	LIN FT	\$	5.00	\$	1.00	\$	6.00	3,000	\$	18,000.0
Aerial - Overlash - De/Re		LIN FT									-
											-
									_		-
			-						-		-
						850.00			-		-
						-		,			-
Make Ready	Raise-Move-Lower	EACH	\$	250.00	\$				8		2,400.0
Facility Connection:						A	eria	Sub-Total:		\$	20,400.0
											850.
Building Interior Raceway									100		1,200.
Building Interior Raceway	4" EMT	LIN FT	\$	15.00	\$	15.00	\$	30.00			-
Pull Boxes - NEMA3R	12x12	EACH	\$	125.00	\$	25.00	\$	150.00	1	\$	150.0
Pull Boxes - NEMA3R	24x24	EACH	\$	250.00	\$	50.00	\$	300.00		\$	-
Core Drill	2"	EACH	\$	300.00	\$	50.00	\$	350.00	1	\$	350.0
Core Drill	4"	EACH	\$	500.00	\$	50.00	\$	550.00		\$	
nnerduct Installation	3 - 1 1/4" SDR13.5	EACH	\$	2.50	\$	2.00	\$	4.50		\$	-
Cable Pulling	existing - vacant	LIN FT	\$	2.00	\$	0.50	\$	2.50	100	\$	250.0
Cable Pulling	existing - occupied	LIN FT	\$	3.00	\$	0.50	\$	3.50		\$	
Comm Shelter (POP)	12x20 Pre-Fab	EACH		40,000.00	\$	50,000.00	\$	90,000.00		\$	
Generator / Power Supply	5KW / Propane Tank			10,000.00	\$	30,000.00	\$	40,000.00		\$	
Site Prep	Foundation & Site	EACH		10,000.00	\$	10,000.00	\$	20,000.00		\$	
			Ĭ	,		cility Conne				\$	2,800.0
Cable, Splicing and Term	ination:										
Splicing	Reel End Fusion	EACH	\$	27.00	\$	3.00	\$	30.00	12	\$	360.0
Splicing	Splice Case	EACH	\$	250.00	\$	250.00	\$	500.00	1	\$	500.0
Splicing	Terminations	EACH	\$	27.00	\$	8.00	\$	35.00	12	\$	420.
Splicing	Bucket Truck Adder	T&M	\$	22.00			\$	22.00		\$	
Splicing Technician	\$ 80 + \$ 40 Truck	T&M	\$	120.00			\$	120.00		\$	
Splicing Technician OT	\$ 112 + \$ 40 Truck	T&M	\$	152.00			\$	152.00		\$	
Patch Panels	6F	EACH		.52.00	\$	150.00	\$	150.00		\$	
Patch Panels	12F	EACH			\$	200.00	\$	200.00	1	\$	200.
Patch Panels	24F	EACH			\$	250.00	\$	250.00	1 '	\$	
					\$					\$	-
Patch Panels	48F	EACH				450.00	\$	450.00			-
Patch Panels	72F	EACH			\$	550.00	\$	550.00	1	\$	-
Patch Panels	96F	EACH			\$	650.00	\$	650.00		\$	-
iber Cable	6F	EACH			\$	0.50	\$	0.50	4 505	\$	-
Fiber Cable	12F	EACH			\$	0.50	\$	0.50	1,500	\$	750.
Fiber Cable	24F	LIN FT			\$	0.65	\$	0.65		\$	
Fiber Cable	48F	LIN FT			\$	0.75	\$	0.75	2,000	\$	1,500.0
Fiber Cable	72F	LIN FT			\$	1.25	\$	1.25		\$	-
iber Cable	96F	LIN FT			\$	1.50	\$	1.50		\$	-
iber Cable	144F Micro	LIN FT			. \$	1.10	\$	1.10		\$	-
Project Totals by Segme	nt:		C	able, Splic	ing	and Termina	ation	Sub-Total:		\$	3,730.
						Under		ınd Section:		\$	
lotes:							Ae	rial Section:		\$	20,400.
						Facility Con				\$	2,800.
				Cable Sn	lici	ng and Term				\$	3,730.
			A			mbined Con				\$	26,930.
										•	
						ering Cost:		Est.		\$	13,000.0
				Pr		iling Wage:		15%		\$	4,039.
					C	ontingency:		10%		\$	2,693.



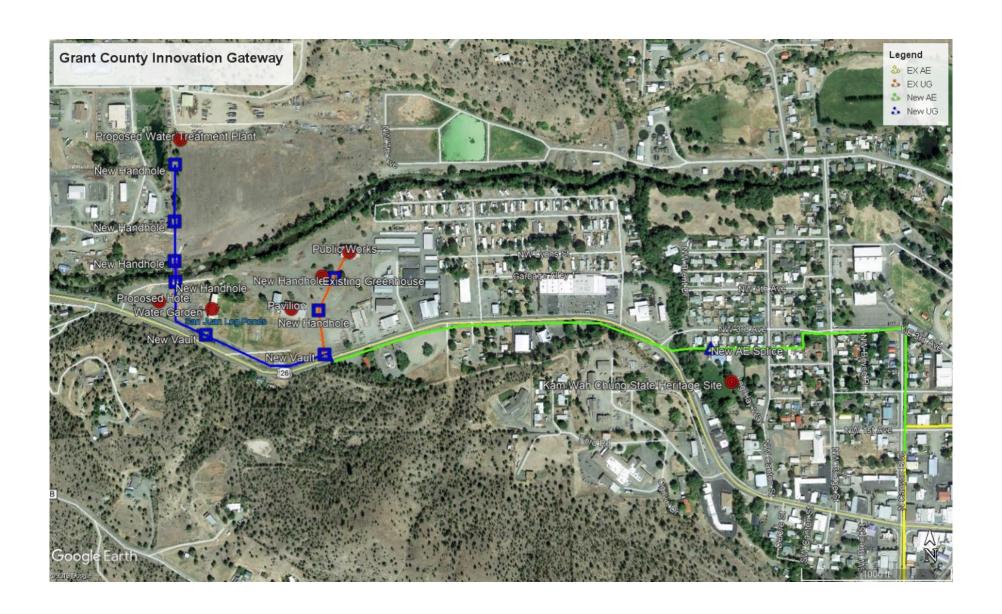
# **Grant County Circuit Court and Sheriff**

Underground:									_	
Description	Туре	Unit	Labor		Materials	To	otal Unit	Qty.		house otal Cost
2000	.,,,,,,									
Trenching - Native B/F	2" PVC	LIN FT	\$ 12.00		4.00	\$	16.00		\$	-
Trenching - Native B/F	4" PVC	LIN FT	\$ 16.00	\$	6.00	\$	22.00		\$	-
Trenching A/C - Select B/F	2" PVC	LIN FT	\$ 22.00	\$	10.00	\$	32.00	50	\$	1,600.0
Frenching A/C - Select B/F		LIN FT	\$ 24.00		12.00	\$	36.00		\$	_
Frenching A/C - CDF B/F	2" PVC	LIN FT	\$ 30.00		30.00	\$	60.00		\$	-
Frenching A/C - CDF B/F	4" PVC	LIN FT	\$ 34.00		36.00	\$	70.00		\$	
	2" Diameter	LIN FT	\$ 16.00		4.00	\$			\$	
Directional Boring							20.00	-		-
Directional Boring	4" Diameter	LIN FT	\$ 20.00		5.00	\$	25.00		\$	
Directional Boring A/C	2" Diameter	LIN FT	\$ 25.00		7.00	\$	32.00	200	\$	6,400.0
Directional Boring A/C	4" Diameter	LIN FT	\$ 26.00		9.00	\$	35.00		\$	-
/ault Installation	Utility Vault 444LA	<b>EACH</b>	\$ 2,500.00	\$	2,000.00	\$	4,500.00	2	\$	9,000.0
Hand Hole - Concrete	264 TA	<b>EACH</b>	\$ 2,000.00	\$	1,500.00	\$	3,500.00		\$	-
Hand Hole - Composite	24x36	EACH	\$ 1,750.00		875.00	\$	2,625.00		\$	
Hand Hole - Composite	17x30	EACH	\$ 1,250.00		500.00	\$	1,750.00		\$	
Micro-Duct Install in 2"	7 - 12.7mm Micro	LIN FT	\$ 5.00		1.50	\$	6.50	1	\$	
		LIN FT						-		
nnerduct Installation	4 - 1" SDR13.5		\$ 5.00		3.00	\$	8.00	050	\$	-
Cable Pulling	exist / new - vacant	LIN FT	\$ 2.50		0.50	\$	3.00	250	\$	750.0
Cable Pulling	existing - occupied	LIN FT	\$ 3.50		0.50	\$	4.00		\$	-
Rock Trenching Adder	Up to 24" Deep	LIN FT	\$ 23.00	\$	2.00	\$	25.00		\$	-
Rock Boring Adder	Up to 24" Deep	LIN FT	\$ 43.00	\$	2.00	\$	45.00	50	\$	2,250.0
CBD Adder	CBD Urban Premium		\$ 125.00		25.00	\$	150.00		\$	
				Ť			Sub-Total:		\$	20,000.0
<u>lerial:</u>				-						
Aerial - New Construction	New Construction	LIN FT	\$ 5.00	\$	1.00	\$	6.00	6,000	\$	36,000.0
Aerial - Overlash - De/Re	Overlash - De/Re	LIN FT	\$ 4.00		0.50	\$	4.50	1	\$	-
Aerial - Wreckout	Wreckout	LIN FT	\$ 2.00		0.25	\$	2.25	1	\$	
								1 000		4 000
Place Strand	6.6M	LIN FT	\$ 3.00		1.00	\$	4.00	1,000	\$	4,000.0
Place Riser	2"	EACH	\$ 300.00		250.00	\$	550.00	2	\$	1,100.0
Place Riser	4" w/ 4 - 1.25" ID	EACH	\$ 500.00		350.00	\$	850.00		\$	-
Place Pole	50 ft class 2	EACH	\$ 1,250.00	\$	850.00	\$	2,100.00		\$	-
Easement	Private	<b>EACH</b>	\$ 2,000.00	\$	-	\$	2,000.00		\$	-
Make Ready	Raise-Move-Lower	<b>EACH</b>	\$ 250.00		50.00	\$	300.00	20	\$	6,000.0
,						erial	Sub-Total:		\$	47,100.0
acility Connection:				-						
Building Entry - Aerial Mast	2" GRC w/ WH	EACH	\$ 500.00	\$	350.00	\$	850.00		\$	-
Building Interior Raceway	1-1/4" Flex Conduit	LIN FT	\$ 10.00		2.00	\$	12.00	200	\$	2,400.0
Building Interior Raceway	4" EMT	LIN FT	\$ 15.00		15.00	\$	30.00		\$	2,100.
Pull Boxes - NEMA3R	12x12	EACH	\$ 125.00		25.00	\$	150.00	2	\$	300.0
						-				300.0
Pull Boxes - NEMA3R	24x24	EACH	\$ 250.00		50.00	\$	300.00		\$	-
Core Drill	2"	EACH	\$ 300.00		50.00	\$	350.00	2	\$	700.0
Core Drill	4"	EACH	\$ 500.00	\$	50.00	\$	550.00		\$	-
nnerduct Installation	3 - 1 1/4" SDR13.5	<b>EACH</b>	\$ 2.50	\$	2.00	\$	4.50		\$	-
Cable Pulling	existing - vacant	LIN FT	\$ 2.00	\$	0.50	\$	2.50	200	\$	500.0
Cable Pulling	existing - occupied	LIN FT	\$ 3.00		0.50	\$	3.50		\$	-
Comm Shelter (POP)			\$ 40,000.00			\$	90,000.00		\$	-
	12x20 Pre-Fab	EACH			50,000.00			-		
Generator / Power Supply	5KW / Propane Tank	EACH	\$ 10,000.00		30,000.00	\$	40,000.00		\$	-
Site Prep	Foundation & Site	EACH	\$ 10,000.00		10,000.00	\$	20,000.00		\$	3,900.0
Cable, Splicing and Term	ination:			га	cility Conne	ction	Sub-Total:		3	3,900.0
Splicing	Reel End Fusion	EACH	\$ 27.00		3.00	\$	30.00	24	\$	720.0
Splicing	Splice Case	EACH	\$ 250.00	\$	250.00	\$	500.00	2	\$	1,000.0
Splicing	Terminations	<b>EACH</b>	\$ 27.00	\$	8.00	\$	35.00	24	\$	840.0
Splicing	Bucket Truck Adder	T&M	\$ 22.00			\$	22.00		\$	
Splicing Technician	\$ 80 + \$ 40 Truck	T&M	\$ 120.00			\$	120.00		\$	-
	\$ 112 + \$ 40 Truck	T&M	\$ 152.00			\$	152.00	1	\$	
Splicing Technician OT			9 102.00		150.00	\$		1	\$	-
Patch Panels	6F	EACH		\$			150.00	-		400
Patch Panels	12F	EACH		\$	200.00	\$	200.00	2		400.0
Patch Panels	24F	EACH		\$	250.00	\$	250.00	1	\$	-
Patch Panels	48F	EACH		\$	450.00	\$	450.00		\$	-
Patch Panels	72F	<b>EACH</b>		\$	550.00	\$	550.00		\$	-
Patch Panels	96F	EACH		\$	650.00	\$	650.00	1	\$	_
Fiber Cable	6F	EACH		\$	0.50	\$	0.50	1	\$	
				\$				600		200
Fiber Cable	12F	EACH			0.50	\$	0.50	600	\$	300.0
Fiber Cable	24F	LIN FT		\$	0.65	\$	0.65	0.000	\$	
iber Cable	48F	LIN FT		\$	0.75	\$	0.75	6,600	\$	4,950.0
Fiber Cable	72F	LIN FT		\$	1.25	\$	1.25		\$	-
Fiber Cable	96F	LIN FT		\$	1.50	\$	1.50		\$	-
Fiber Cable	144F Micro	LIN FT		\$	1.10	\$	1.10		\$	-
T-4-I- b C			Cable, Spl	icing	and Termina	ation	Sub-Total:		\$	8,210.
Project Totals by Segme	nc.			+	Under	grou	nd Section:		\$	20,000.
Notes:							ial Section:	1	\$	47,100.0
10163.				-	Easilie: 0			1		
					Facility Con			1	\$	3,900.
					ng and Term			-	\$	8,210.0
			All Section	is Co	mbined Con	struc	uon Iotals:		\$	79,210.
				nain	eering Cost:		Est.		\$	21,000.0
				ngiiii	ering cost.				•	21,000.0
							15%		\$	11,881.
				reva	illing Wage: ontingency:		100000000000000000000000000000000000000			



#### Innovation Gateway

Description	atio	n Gateway							
Description	Туре	Unit	Labor	N	laterials	Total Unit			Total Cost
Franching Native B/E	2" D\/C	LINIET	£ 12.00	•	4.00	\$ 16.00		•	
							200	\$	4 400 0
							200	\$	4,400.0
								\$	-
							2,100	\$	75,600.0
		LIN FT						\$	-
renching A/C - CDF B/F	4" PVC	LIN FT	\$ 34.00	\$	36.00	\$ 70.00		\$	-
irectional Boring	2" Diameter	LIN FT	\$ 16.00	\$	4.00	\$ 20.00		\$	-
							400	\$	10,000.0
								\$	,
								\$	
							_		9.000.0
			,				2	\$	9,000.0
								\$	-
land Hole - Composite	24x36	EACH		\$			6	\$	15,750.0
land Hole - Composite	17x30	EACH	\$ 1,250.00	\$	500.00	\$ 1,750.00		\$	-
ficro-Duct Install in 2"	7 - 12.7mm Micro	LIN FT	\$ 5.00	\$	1.50	\$ 6.50		\$	-
nerduct Installation	4 - 1" SDR13.5	LIN FT	\$ 5.00	\$	3.00	\$ 8.00	2.200	\$	17,600.0
								\$	8,100.0
								\$	3,000.0
							750		3,000.0
								\$	
							200	\$	9,000.0
BD Adder	CBD Urban Premium	LIN FT	\$ 125.00	\$	25.00	\$ 150.00		\$	-
					Undergr	ound Sub-Total:		\$	152,450.0
<u>erial:</u>									
erial - New Construction	New Construction	LIN FT	\$ 5.00	\$	1.00	\$ 6.00	4,800	\$	28,800.0
	Overlash - De/Re				0.50			\$	
								\$	
								\$	- :
							l .	\$	
							1	\$	850.0
Place Pole	50 ft class 2	EACH	\$ 1,250.00	\$	850.00			\$	-
asement	Private	EACH	\$ 2,000.00	\$	-	\$ 2,000.00		\$	-
lake Ready	Raise-Move-Lower	EACH	\$ 250.00	\$	50.00	\$ 300.00	15	\$	4,500.0
•					,	Aerial Sub-Total:		\$	34,150.0
acility Connection:									
luilding Entry - Aerial Mast	2" GRC w/ WH	EACH	\$ 500.00	\$	350.00	\$ 850.00		\$	
Building Interior Raceway	1-1/4" Flex Conduit	LIN FT	\$ 10.00	\$	2.00	\$ 12.00	100	\$	1,200.0
Building Interior Raceway	4" EMT	LIN FT	\$ 15.00	\$	15.00	\$ 30.00		\$	.,
	12x12				25.00		_	\$	200.0
Pull Boxes - NEMA3R		EACH	\$ 125.00	\$			2		300.0
Pull Boxes - NEMA3R	24x24	EACH	\$ 250.00	\$	50.00	\$ 300.00		\$	-
Core Drill	2"	EACH	\$ 300.00	\$	50.00	\$ 350.00	2	\$	700.0
Core Drill	4"	EACH	\$ 500.00	\$	50.00	\$ 550.00		\$	-
nnerduct Installation	3 - 1 1/4" SDR13.5	EACH	\$ 2.50	\$	2.00	\$ 4.50		\$	-
Cable Pulling	existing - vacant	LIN FT	\$ 2.00	\$	0.50	\$ 2.50		\$	-
Cable Pulling	existing - occupied	LIN FT	\$ 3.00	\$	0.50	\$ 3.50	250	\$	875.0
Comm Shelter (POP)	12x20 Pre-Fab	EACH	\$ 40.000.00	\$	50.000.00	\$ 90.000.00		\$	-
Senerator / Power Supply	5KW / Propane Tank	EACH	\$ 10,000.00	\$	30,000.00	\$ 40,000.00		\$	-
Site Prep	Foundation & Site	EACH	\$ 10,000.00	\$	10,000.00	\$ 20,000.00		\$	3,075.0
able, Splicing and Termi	nation:			га	cility Conne	ction Sub-Total:		Þ	3,075.0
A-11-1	Deal Food Food	E4							
Splicing	Reel End Fusion	EACH	\$ 27.00	\$	3.00	\$ 30.00	108	\$	3,240.0
plicing	Splice Case	EACH	\$ 250.00	\$	250.00	\$ 500.00	4	\$	2,000.0
plicing	Terminations	EACH	\$ 27.00	\$	8.00	\$ 35.00	24	\$	840.0
plicing	Bucket Truck Adder	T&M	\$ 22.00			\$ 22.00		\$	-
plicing Technician	\$ 80 + \$ 40 Truck	T&M	\$ 120.00			\$ 120.00		\$	
plicing Technician OT	\$ 112 + \$ 40 Truck	T&M	\$ 152.00			\$ 152.00		\$	-
atch Panels	6F	EACH	, 102.00	\$	150.00	\$ 150.00		\$	
							_		400.0
atch Panels	12F	EACH		\$	200.00	\$ 200.00	2	\$	400.0
atch Panels	24F	EACH		\$	250.00	\$ 250.00		\$	-
atch Panels	48F	EACH		\$	450.00	\$ 450.00		\$	-
atch Panels	72F	EACH		\$	550.00	\$ 550.00		\$	-
atch Panels	96F	EACH		\$	650.00	\$ 650.00		\$	-
iber Cable	6F	EACH		\$	0.50	\$ 0.50		\$	
iber Cable	12F	EACH		\$	0.50	\$ 0.50	400	\$	200.0
iber Cable	24F	LIN FT		\$	0.65		700	\$	455.0
iber Cable	48F	LIN FT		\$	0.75	\$ 0.75		\$	-
iber Cable	72F	LIN FT		\$	1.25	\$ 1.25		\$	-
iber Cable	96F	LIN FT		\$	1.50	\$ 1.50	8,500	\$	12,750.0
iber Cable	144F Micro	LIN FT		\$	1.10	\$ 1.10		\$	-
reject Totals by Comme	4.		Cable, Spl	icing	and Termin	ation Sub-Total:		\$	19,885.0
roject Totals by Segmer	IL.				Unde	rground Section:		\$	152,450.0
lotes:					Unde	Aerial Section:		\$	34,150.0
10103.					Engility Com		-		
		-	Caleta C			nection Section:	-	\$	3,075.0
						nination Section:		\$	19,885.0 209,560.0
					ering Cost:	Est.		\$	26,000.0
						4504		•	04 404 0
			Pr		ing Wage:	15%		\$	31,434.0
		-	Pr		ing Wage: ntingency:	10%		\$	20,956.0



# City of John Day Aquatic Center / Sports Complex

Underground:									Agu	atic	Center
Description	Туре	Unit		Labor	-	Materials	т	otal Unit	Qty.		otal Cost
	.,,,,,,									T.	
Frenching - Native B/F	2" PVC	LIN FT	\$	12.00	\$	4.00	\$	16.00		\$	-
Frenching - Native B/F	4" PVC	LIN FT	\$	16.00	\$	6.00	\$	22.00		\$	-
renching A/C - Select B/F	2" PVC	LIN FT	\$	22.00	\$	10.00	\$	32.00	100	\$	3,200.0
renching A/C - Select B/F		LIN FT	\$	24.00	\$	12.00	\$	36.00		\$	-,
renching A/C - CDF B/F	2" PVC	LIN FT	\$	30.00	\$	30.00	\$	60.00		\$	
	4" PVC		\$		\$				-	\$	
Frenching A/C - CDF B/F		LIN FT		34.00		36.00	\$	70.00	-		-
Directional Boring	2" Diameter	LIN FT	\$	16.00	\$	4.00	\$	20.00	-	\$	-
Directional Boring	4" Diameter	LIN FT	\$	20.00	\$	5.00	\$	25.00		\$	
Directional Boring A/C	2" Diameter	LIN FT	\$	25.00	\$	7.00	\$	32.00	250	\$	8,000.0
Directional Boring A/C	4" Diameter	LIN FT	\$	26.00	\$	9.00	\$	35.00		\$	-
/ault Installation	Utility Vault 444LA	<b>EACH</b>	\$	2,500.00	\$	2,000.00	\$	4,500.00	1	\$	4,500.0
land Hole - Concrete	264 TA	<b>EACH</b>	\$	2,000.00	\$	1,500.00	\$	3,500.00		\$	-
land Hole - Composite	24x36	EACH	\$	1,750.00	\$	875.00	\$	2,625.00	1	\$	2,625.0
Hand Hole - Composite	17x30	EACH	\$	1,250.00	\$	500.00	\$	1,750.00		\$	
flicro-Duct Install in 2"	7 - 12.7mm Micro	LIN FT	\$	5.00	\$	1.50	\$	6.50		\$	-
nnerduct Installation	4 - 1" SDR13.5									\$	
		LIN FT	\$	5.00	\$	3.00	\$	8.00	050		4.050.0
Cable Pulling	exist / new - vacant	LIN FT	\$	2.50	\$	0.50	\$	3.00	350	\$	1,050.0
Cable Pulling	existing - occupied	LIN FT	\$	3.50	\$	0.50	\$	4.00		\$	-
Rock Trenching Adder	Up to 24" Deep	LIN FT	\$	23.00	\$	2.00	\$	25.00		\$	-
Rock Boring Adder	Up to 24" Deep	LIN FT	\$	43.00	\$	2.00	\$	45.00	50	\$	2,250.0
CBD Adder	<b>CBD Urban Premium</b>	LIN FT	\$	125.00	\$	25.00	\$	150.00		\$	-
						Undergro	ound	Sub-Total:		\$	21,625.0
erial:											
erial - New Construction	New Construction	LIN FT	\$	5.00	\$	1.00	\$	6.00	1,400	\$	8,400.0
Aerial - Overlash - De/Re	Overlash - De/Re	LIN FT	\$	4.00	\$	0.50	\$	4.50	1,,,,,,,,	\$	- 0,400.0
									1		
Aerial - Wreckout	Wreckout	LIN FT	\$	2.00	\$	0.25	\$	2.25	-	\$	-
Place Strand	6.6M	LIN FT	\$	3.00	\$	1.00	\$	4.00	1	\$	
Place Riser	2"	EACH	\$	300.00	\$	250.00	\$	550.00	1	\$	550.0
Place Riser	4" w/ 4 - 1.25" ID	EACH	\$	500.00	\$	350.00	\$	850.00		\$	-
Place Pole	50 ft class 2	EACH	\$	1,250.00	\$	850.00	\$	2,100.00		\$	-
Easement	Private	EACH	\$	2,000.00	\$	-	\$	2,000.00		\$	-
Make Ready	Raise-Move-Lower	EACH	\$	250.00	\$	50.00	\$	300.00	4	\$	1,200.0
,			Ť		Ť			Sub-Total:		\$	10,150.0
acility Connection:											
Building Entry - Aerial Mast	2" CDC/ W/LI	EACH	\$	500.00	\$	350.00	\$	850.00	1	\$	850.0
Building Interior Raceway	1-1/4" Flex Conduit	LIN FT	\$	10.00	\$	2.00	\$	12.00	20	\$	240.0
Building Interior Raceway	4" EMT	LIN FT	\$	15.00	\$	15.00	\$	30.00		\$	-
Pull Boxes - NEMA3R	12x12	EACH	\$	125.00	\$	25.00	\$	150.00	1	\$	150.0
Pull Boxes - NEMA3R	24x24	EACH	\$	250.00	\$	50.00	\$	300.00		\$	-
Core Drill	2"	<b>EACH</b>	\$	300.00	\$	50.00	\$	350.00	1	\$	350.0
Core Drill	4"	<b>EACH</b>	\$	500.00	\$	50.00	\$	550.00		\$	-
nnerduct Installation	3 - 1 1/4" SDR13.5	EACH	\$	2.50	\$	2.00	\$	4.50		\$	-
Cable Pulling	existing - vacant	LIN FT	\$	2.00	\$	0.50	\$	2.50		\$	
Cable Pulling	existing - occupied	LIN FT	\$	3.00	\$	0.50	\$	3.50	50	\$	175.0
									30		
Comm Shelter (POP)	12x20 Pre-Fab	EACH		40,000.00	\$	50,000.00	\$	90,000.00	-	\$	-
Generator / Power Supply	5KW / Propane Tank	EACH		10,000.00	\$	30,000.00	\$	40,000.00	-	\$	-
Site Prep	Foundation & Site	EACH	\$	10,000.00	\$	10,000.00	\$	20,000.00		\$	4 705 0
Cable, Splicing and Term	ination:				Fa	cility Conne	ction	Sub-Total:		\$	1,765.0
	_										
Splicing	Reel End Fusion	EACH	\$	27.00	\$	3.00	\$	30.00	12	\$	360.0
Splicing	Splice Case	<b>EACH</b>	\$	250.00	\$	250.00	\$	500.00	3	\$	1,500.0
Splicing	Terminations	EACH	\$	27.00	\$	8.00	\$	35.00	12	\$	420.0
Splicing	Bucket Truck Adder	T&M	\$	22.00			\$	22.00		\$	
Splicing Technician	\$ 80 + \$ 40 Truck	T&M	\$	120.00			\$	120.00	1	\$	
Splicing Technician OT	\$ 112 + \$ 40 Truck	T&M	\$	152.00			\$	152.00		\$	
Patch Panels			ű,	102.00	•	150.00	\$	150.00	1	\$	-
	6F	EACH			\$				l .		200.0
Patch Panels	12F	EACH			\$	200.00	\$	200.00	1	\$	200.0
Patch Panels	24F	EACH			\$	250.00	\$	250.00	_	\$	-
Patch Panels	48F	EACH			\$	450.00	\$	450.00		\$	-
Patch Panels	72F	EACH			\$	550.00	\$	550.00		\$	-
Patch Panels	96F	EACH			\$	650.00	\$	650.00		\$	-
iber Cable	6F	EACH			\$	0.50	\$	0.50		\$	-
Fiber Cable	12F	EACH			\$	0.50	\$	0.50	150	\$	75.0
iber Cable	24F	LIN FT			\$	0.65	\$	0.65	1	\$	-
iber Cable	48F	LIN FT			\$	0.75	\$	0.75	2,000	\$	1,500.0
Fiber Cable	72F	LIN FT			\$	1.25	\$	1.25	2,000	\$	.,500.0
iber Cable	96F	LIN FT			\$	1.50	\$	1.50	1	\$	-
iber Cable	144F Micro	LIN FT			\$	1.10		1.10		\$	
ibei Gabie	17-71 IVIICIO	CINT	С	able. Splic		and Termina				\$	4,055.0
Project Totals by Segmen	nt:			, opno	8						
						Under		nd Section:		\$	21,625.0
Notes:							Aeı	rial Section:		\$	10,150.0
						Facility Con				\$	1,765.0
				Cable S-	lici	ng and Term			1	\$	4,055.0
			Δ			ng and Term mbined Con				\$	37,595.0
					0	biiieu con	J., uC	on iotais.	1		31,000.0
						eering Cost:		Est.		\$	12,000.0
					eva	iling Wage:		15%		\$	5,639.2
					eva						



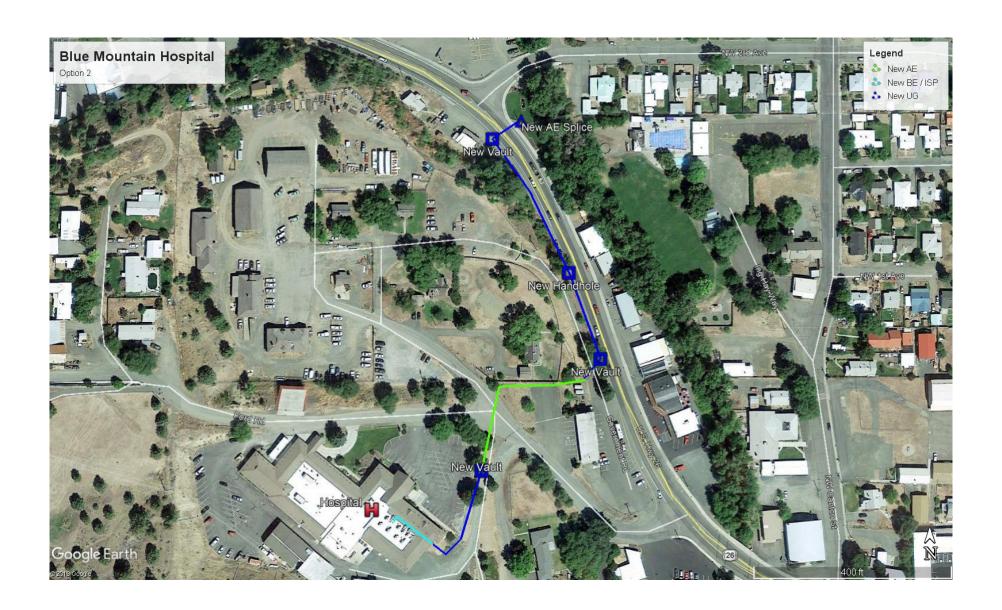
# Blue Mountain Hospital (Option 1)

						Blue Mou	ntain Hosp	ital '
Description	Туре	Unit	Labor	Materials	Total Unit	Qty.	Total Co	ost
Trenching - Native B/F	2" PVC	LIN FT	\$ 12.00	\$ 4.00	\$ 16.00	50	\$ 80	00.0
Trenching - Native B/F	4" PVC	LIN FT	\$ 16.00	\$ 6.00	\$ 22.00		\$	-
Trenching A/C - Select B/F		LIN FT	\$ 22.00	\$ 10.00	\$ 32.00	50		00.00
Trenching A/C - Select B/F		LIN FT	\$ 24.00	\$ 12.00	\$ 36.00		\$	-
Trenching A/C - CDF B/F	2" PVC	LIN FT	\$ 30.00	\$ 30.00	\$ 60.00		\$	÷
Trenching A/C - CDF B/F	4" PVC	LIN FT	\$ 34.00	\$ 36.00	\$ 70.00		\$	-
						450		-
Directional Boring	2" Diameter	LIN FT	\$ 16.00	\$ 4.00	\$ 20.00	150		00.00
Directional Boring	4" Diameter	LIN FT	\$ 20.00	\$ 5.00	\$ 25.00		\$	-
Directional Boring A/C	2" Diameter	LIN FT	\$ 25.00	\$ 7.00	\$ 32.00		\$	-
Directional Boring A/C	4" Diameter	LIN FT	\$ 26.00	\$ 9.00	\$ 35.00		\$	-
Vault Installation	Utility Vault 444LA	EACH	\$ 2,500.00	\$ 2,000.00	\$ 4,500.00	1	\$ 4,50	00.00
Hand Hole - Concrete	264 TA	<b>EACH</b>	\$ 2,000.00	\$ 1,500.00	\$ 3,500.00		\$	-
Hand Hole - Composite	24x36	<b>EACH</b>	\$ 1,750.00	\$ 875.00	\$ 2,625.00		\$	-
Hand Hole - Composite	17x30	EACH	\$ 1,250.00	\$ 500.00	\$ 1,750.00		\$	-
Micro-Duct Install in 2"	7 - 12.7mm Micro	LIN FT	\$ 5.00	\$ 1.50	\$ 6.50		\$	_
Innerduct Installation	4 - 1" SDR13.5	LIN FT	\$ 5.00	\$ 3.00	\$ 8.00		\$	-
Cable Pulling	exist / new - vacant	LIN FT	\$ 2.50	\$ 0.50	\$ 3.00	250		50.0
						200	\$	-
Cable Pulling	existing - occupied	LIN FT						-
Rock Trenching Adder	Up to 24" Deep	LIN FT	\$ 23.00	\$ 2.00	\$ 25.00		\$	
Rock Boring Adder	Up to 24" Deep	LIN FT	\$ 43.00	\$ 2.00	\$ 45.00	50		50.00
CBD Adder	CBD Urban Premium	LIN FT	\$ 125.00	\$ 25.00	\$ 150.00		\$	-
				Undergr	ound Sub-Total:		\$ 12,90	00.00
Aerial:								
Aerial - New Construction	New Construction	LIN FT	\$ 5.00	\$ 1.00	\$ 6.00	1,000	\$ 6,00	00.00
Aerial - Overlash - De/Re	Overlash - De/Re	LIN FT	\$ 4.00	\$ 0.50	\$ 4.50		\$	-
Aerial - Wreckout	Wreckout	LIN FT	\$ 2.00	\$ 0.25	\$ 2.25		\$	
Place Strand							\$	-
	6.6M	LINFT		\$ 1.00	\$ 4.00 \$ 550.00			-
Place Riser	2"	EACH		\$ 250.00		1		50.00
Place Riser	4" w/ 4 - 1.25" ID	EACH	\$ 500.00	\$ 350.00	\$ 850.00		\$	-
Place Pole	50 ft class 2	EACH	\$ 1,250.00	\$ 850.00	\$ 2,100.00		\$	-
Easement	Private	<b>EACH</b>	\$ 2,000.00	\$ -	\$ 2,000.00		\$	-
Make Ready	Raise-Move-Lower	<b>EACH</b>	\$ 250.00	\$ 50.00	\$ 300.00	3	\$ 90	00.00
·				-	erial Sub-Total:		\$ 7,45	50.00
Facility Connection:								
Building Entry - Aerial Mast	2" GDC w/ W/L	EACH	\$ 500.00	\$ 350.00	\$ 850.00		\$	-
		LIN FT	\$ 10.00	\$ 2.00	\$ 12.00		\$	
Building Interior Raceway	1-1/4" Flex Conduit							-
Building Interior Raceway	4" EMT	LIN FT	\$ 15.00	\$ 15.00	\$ 30.00		\$	
Pull Boxes - NEMA3R	12x12	EACH	\$ 125.00	\$ 25.00	\$ 150.00	1		50.00
Pull Boxes - NEMA3R	24x24	EACH	\$ 250.00	\$ 50.00	\$ 300.00		\$	-
Core Drill	2"	EACH	\$ 300.00	\$ 50.00	\$ 350.00	1	\$ 35	50.00
Core Drill	4"	<b>EACH</b>	\$ 500.00	\$ 50.00	\$ 550.00		\$	-
Innerduct Installation	3 - 1 1/4" SDR13.5	<b>EACH</b>	\$ 2.50	\$ 2.00	\$ 4.50		\$	-
Cable Pulling	existing - vacant	LIN FT	\$ 2.00	\$ 0.50	\$ 2.50	200	\$ 50	00.00
Cable Pulling	existing - occupied	LIN FT	\$ 3.00	\$ 0.50	\$ 3.50		\$	
Comm Shelter (POP)	12x20 Pre-Fab	EACH	\$ 40,000.00	\$ 50,000.00	\$ 90,000.00		\$	-
Generator / Power Supply	5KW / Propane Tank	EACH	\$ 10,000.00	\$ 30,000.00	\$ 40,000.00		\$	
				,			\$	-
Site Prep	Foundation & Site	EACH	\$ 10,000.00	\$ 10,000.00 Facility Conne	\$ 20,000.00   ction Sub-Total:			-00.00
Cable, Splicing and Term	ination:			r donney donne	olion oub Total.		1,00	50.00
Splicing	Reel End Fusion	EACH	\$ 27.00	\$ 3.00	\$ 30.00	12		60.00
Splicing	Splice Case	EACH	\$ 250.00	\$ 250.00	\$ 500.00	1		00.00
Splicing	Terminations	EACH	\$ 27.00	\$ 8.00	\$ 35.00	12	\$ 42	20.00
Splicing	Bucket Truck Adder	T&M	\$ 22.00		\$ 22.00		\$	-
Splicing Technician	\$ 80 + \$ 40 Truck	T&M	\$ 120.00		\$ 120.00		\$	-
Splicing Technician OT	\$ 112 + \$ 40 Truck	T&M	\$ 152.00		\$ 152.00		\$	_
Patch Panels	6F	EACH		\$ 150.00	\$ 150.00		\$	-
Patch Panels	12F	EACH		\$ 200.00	\$ 200.00	1	-	00.00
Patch Panels	24F	EACH				'	\$	
								-
Patch Panels	48F	EACH		\$ 450.00	\$ 450.00		\$	-
Patch Panels	72F	EACH		\$ 550.00	\$ 550.00		\$	-
Patch Panels	96F	EACH		\$ 650.00	\$ 650.00		\$	-
Fiber Cable	6F	EACH		\$ 0.50	\$ 0.50		\$	-
Fiber Cable	12F	EACH		\$ 0.50	\$ 0.50		\$	-
Fiber Cable	24F	LIN FT		\$ 0.65	\$ 0.65		\$	-
Fiber Cable	48F	LIN FT		\$ 0.75	\$ 0.75	1,500		25.00
Fiber Cable	72F	LIN FT		\$ 1.25	\$ 1.25		\$	-
Fiber Cable	96F	LIN FT		\$ 1.50	\$ 1.50		\$	-
Fiber Cable	144F Micro	LINFT		\$ 1.10			\$	-
			Cable, Splid		ation Sub-Total:			05.00
Project Totals by Segmen	nt:							00.0
N-4				Unde	rground Section:		\$ 12,90	
Notes:					Aerial Section:			50.00
			0.11.0		nection Section:			00.00
					ination Section: struction Totals:			05.00
			All Sections	Compined Con	sudction lotals:		\$ 23,95	JO.U(
			En	gineering Cost:	Est.		\$ 11,00	00.00
				evailing Wage:	15%			93.25
			-					
				Contingency:	10%		\$ 2,38	95.50



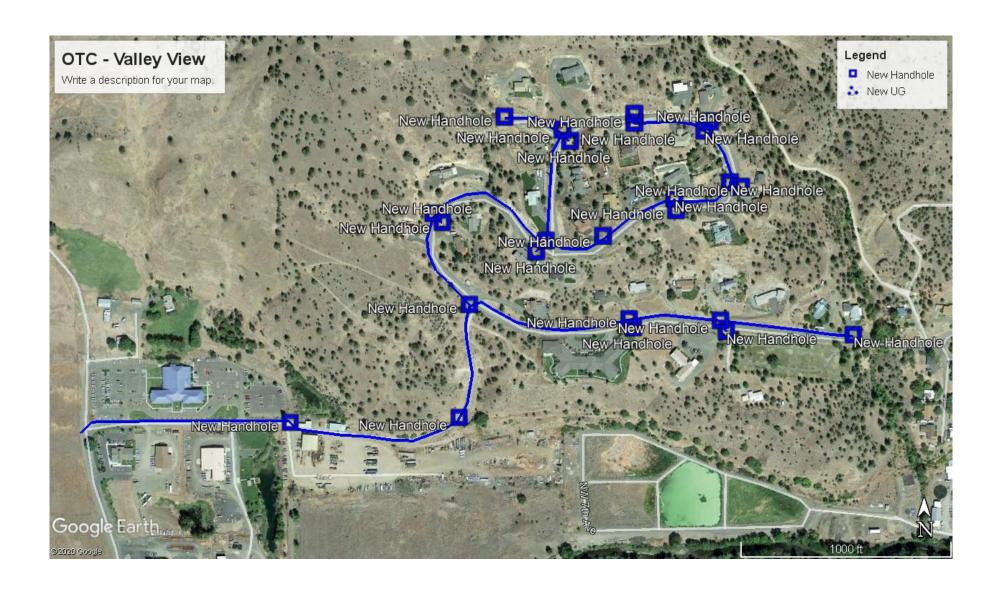
# Blue Mountain Hospital (Option 2)

Underground:							Blue Mou	ıntai	in Hospital
Description	Туре	Unit	Labor		Materials	Total Unit	Qty.		Total Cost
Trenching - Native B/F	2" PVC	LIN FT	\$ 12.00	) \$	4.00	\$ 16.00	50	\$	800.0
Trenching - Native B/F	4" PVC	LIN FT	\$ 16.00	\$	6.00	\$ 22.00		\$	
Trenching A/C - Select B/F	2" PVC	LIN FT	\$ 22.00	) \$	10.00	\$ 32.00	200	\$	6,400.00
Trenching A/C - Select B/F		LIN FT	\$ 24.00		12.00	\$ 36.00		\$	-
Trenching A/C - CDF B/F	2" PVC	LIN FT	\$ 30.00	\$	30.00	\$ 60.00		\$	-
Trenching A/C - CDF B/F	4" PVC	LIN FT	\$ 34.00	\$	36.00	\$ 70.00		\$	-
Directional Boring	2" Diameter	LIN FT	\$ 16.00		4.00	\$ 20.00	150	\$	3,000.0
Directional Boring	4" Diameter	LIN FT	\$ 20.00		5.00	\$ 25.00		\$	-,
Directional Boring A/C	2" Diameter	LIN FT	\$ 25.00		7.00	\$ 32.00	550	\$	17,600.0
Directional Boring A/C	4" Diameter	LIN FT	\$ 26.00		9.00	\$ 35.00		\$	-
Vault Installation	Utility Vault 444LA	EACH	\$ 2,500.00		2,000.00	\$ 4,500.00	3	\$	13,500.0
Hand Hole - Concrete	264 TA	EACH	\$ 2,000.00		1,500.00	\$ 3,500.00	H	\$	-
Hand Hole - Composite	24x36	EACH	\$ 1,750.00		875.00	\$ 2,625.00	1	\$	2,625.0
Hand Hole - Composite	17x30	EACH	\$ 1,250.00		500.00	\$ 1,750.00	Н .	\$	2,020.0
Micro-Duct Install in 2"	7 - 12.7mm Micro	LIN FT	\$ 5.00		1.50	\$ 6.50		\$	
Innerduct Installation	4 - 1" SDR13.5	LIN FT	\$ 5.00		3.00	\$ 8.00	H	\$	-
Cable Pulling	exist / new - vacant	LINFT	\$ 2.50		0.50	\$ 3.00	950	\$	2,850.0
							930	\$	2,000.0
Cable Pulling	existing - occupied	LIN FT			0.50	\$ 4.00			-
Rock Trenching Adder	Up to 24" Deep	LIN FT	\$ 23.00		2.00	\$ 25.00	100	\$	4.500.0
Rock Boring Adder	Up to 24" Deep	LIN FT	\$ 43.00		2.00	\$ 45.00	100	\$	4,500.0
CBD Adder	CBD Urban Premium	LIN FT	\$ 125.00	\$	25.00	\$ 150.00	H	\$	-
Aerial:					Undergre	ound Sub-Total:		\$	51,275.0
ACTION.									
Aerial - New Construction	New Construction	LIN FT	\$ 5.00	\$	1.00	\$ 6.00	350	\$	2,100.00
Aerial - Overlash - De/Re	Overlash - De/Re	LIN FT	\$ 4.00		0.50	\$ 4.50		\$	-
Aerial - Wreckout	Wreckout	LIN FT	\$ 2.00		0.25	\$ 2.25	H	\$	-
Place Strand	6.6M	LIN FT	\$ 3.00		1.00	\$ 4.00	H	\$	-
Place Riser	2"	EACH	\$ 300.00		250.00	\$ 550.00	2	\$	1,100.0
Place Riser	4" w/ 4 - 1.25" ID	EACH	\$ 500.00		350.00	\$ 850.00	1	\$	- 1,100.00
Place Pole	50 ft class 2	EACH	\$ 1,250.00		850.00	\$ 2,100.00		\$	-
Easement	Private	EACH	\$ 2,000.00		030.00	\$ 2,000.00		\$	
	Raise-Move-Lower	EACH	\$ 250.00		50.00	\$ 300.00	1	\$	300.00
Make Ready	Raise-iviove-Lower	EACH	\$ 250.00	, 3		erial Sub-Total:		\$	3,500.0
Facility Connection:									
Building Entry - Aerial Mast	2" GRC w/ WH	EACH	\$ 500.00	) \$	350.00	\$ 850.00		\$	-
Building Interior Raceway	1-1/4" Flex Conduit	LIN FT	\$ 10.00		2.00	\$ 12.00		\$	
Building Interior Raceway	4" EMT	LIN FT	\$ 15.00		15.00	\$ 30.00	H	\$	
Pull Boxes - NEMA3R						\$ 150.00	1	\$	150.0
	12x12	EACH			25.00		Н '		150.00
Pull Boxes - NEMA3R	24x24	EACH	\$ 250.00		50.00	\$ 300.00	Η.,	\$	-
Core Drill	2"	EACH	\$ 300.00		50.00	\$ 350.00	1	\$	350.0
Core Drill	4"	EACH	\$ 500.00		50.00	\$ 550.00		\$	-
Innerduct Installation	3 - 1 1/4" SDR13.5	EACH	\$ 2.50		2.00	\$ 4.50		\$	
Cable Pulling	existing - vacant	LIN FT	\$ 2.00		0.50	\$ 2.50	200	\$	500.0
Cable Pulling	existing - occupied	LIN FT	\$ 3.00		0.50	\$ 3.50		\$	-
Comm Shelter (POP)	12x20 Pre-Fab	EACH	\$ 40,000.00	\$	50,000.00	\$ 90,000.00		\$	-
Generator / Power Supply	5KW / Propane Tank	EACH	\$ 10,000.00	\$	30,000.00	\$ 40,000.00	Ш	\$	-
Site Prep	Foundation & Site	EACH	\$ 10,000.00		10,000.00	\$ 20,000.00		\$	4 000 0
Cable, Splicing and Term	ination:			F	acility Conne	ction Sub-Total:		\$	1,000.00
Splicing	Reel End Fusion	EACH	\$ 27.00		3.00	\$ 30.00	12	\$	360.00
Splicing	Splice Case	EACH	\$ 250.00		250.00	\$ 500.00	1	\$	500.0
Splicing	Terminations	EACH	\$ 27.00	\$	8.00	\$ 35.00	12	\$	420.00
Splicing	Bucket Truck Adder	T&M	\$ 22.00	)		\$ 22.00		\$	-
Splicing Technician	\$ 80 + \$ 40 Truck	T&M	\$ 120.00			\$ 120.00		\$	-
Splicing Technician OT	\$ 112 + \$ 40 Truck	T&M	\$ 152.00			\$ 152.00		\$	-
Patch Panels	6F	<b>EACH</b>		\$	150.00	\$ 150.00		\$	-
Patch Panels	12F	EACH		\$	200.00	\$ 200.00	1	\$	200.0
Patch Panels	24F	EACH		\$	250.00	\$ 250.00	П	\$	-
Patch Panels	48F	EACH		\$	450.00	\$ 450.00	П	\$	-
Patch Panels	72F	EACH		\$	550.00	\$ 550.00	H	\$	-
Patch Panels	96F	EACH		\$	650.00	\$ 650.00	H	\$	
Fiber Cable	6F	EACH		\$	0.50	\$ 0.50	Н	\$	-
Fiber Cable	12F	EACH		\$	0.50	\$ 0.50	H	\$	
Fiber Cable	24F	LIN FT		\$	0.65	\$ 0.65	H	\$	-
Fiber Cable Fiber Cable	48F			\$		\$ 0.65	1,600	\$	1,200.0
		LINET		\$	0.75		1,000		
Fiber Cable Fiber Cable	72F	LIN FT		\$	1.25	\$ 1.25	H	\$	-
Fiber Cable Fiber Cable	96F 144F Micro	LIN FT		\$	1.50	\$ 1.50 \$ 1.10	H	\$	-
Fibel Cable	144F MICTO	LIN FT	Cable, Sp			ation Sub-Total:		\$	2,680.0
Project Totals by Segmen	nt:		,,						
					Under	ground Section:	Н	\$	51,275.00
Notes:						Aerial Section:		\$	3,500.0
					<b>Facility Con</b>	nection Section:		\$	1,000.0
				•	ng and Term	ination Section:		\$	2,680.0
			All Section	s Co	ombined Con	struction Totals:		\$	58,455.0
			F	nain	eering Cost:	Est.		\$	12,000.0
			_		Cost.	LSt.			
				rev	ailing Wage:	15%		\$	8,768.2
			·		ailing Wage: ontingency:	15% 10%		\$	8,768.2 5,845.5



# Oregon Telephone Company – Valley View

									OTEC	-Val	ley View
Description	Туре	Unit		Labor	-	Materials	1	Total Unit	Qty.		Total Cost
renching - Native B/F	2" PVC	LIN FT	\$	12.00	\$	4.00	\$	16.00		\$	
Frenching - Native B/F	4" PVC	LIN FT	\$	16.00	\$	6.00	\$	22.00		\$	- :
Frenching A/C - Select B/F		LIN FT	\$	22.00	\$	10.00	\$	32.00	500	\$	16,000.0
			\$	24.00	\$	12.00	\$	36.00	300		10,000.0
Frenching A/C - Select B/F		LIN FT								\$	-
Frenching A/C - CDF B/F	2" PVC	LIN FT	\$	30.00	\$	30.00	\$	60.00		\$	-
Trenching A/C - CDF B/F	4" PVC	LIN FT	\$	34.00	\$	36.00	\$	70.00		\$	-
Directional Boring	2" Diameter	LIN FT	\$	16.00	\$	4.00	\$	20.00	150	\$	3,000.0
Directional Boring	4" Diameter	LIN FT	\$	20.00	\$	5.00	\$	25.00		\$	-
Directional Boring A/C	2" Diameter	LIN FT	\$	25.00	\$	7.00	\$	32.00	7,700	\$	246,400.0
Directional Boring A/C	4" Diameter	LIN FT	\$	26.00	\$	9.00	\$	35.00	.,	\$	
/ault Installation	Utility Vault 444LA	EACH	\$	2,500.00	\$	2,000.00	\$	4,500.00		\$	
Hand Hole - Concrete	264 TA	EACH	S	2,000.00	\$	1,500.00	\$	3,500.00		\$	
			_						0.4		
Hand Hole - Composite	24x36	EACH	\$	1,750.00	\$	875.00	\$	2,625.00	24	\$	63,000.0
Hand Hole - Composite	17x30	EACH	\$	1,250.00	\$	500.00	\$	1,750.00		\$	-
Micro-Duct Install in 2"	7 - 12.7mm Micro	LIN FT	\$	5.00	\$	1.50	\$	6.50		\$	-
nnerduct Installation	4 - 1" SDR13.5	LIN FT	\$	5.00	\$	3.00	\$	8.00		\$	-
Cable Pulling	exist / new - vacant	LIN FT	\$	2.50	\$	0.50	\$	3.00	8,350	\$	25,050.0
Cable Pulling	existing - occupied	LIN FT	\$	3.50	\$	0.50	\$	4.00	0,000	\$	
		LIN FT	\$	23.00	\$	2.00	\$	25.00		\$	
Rock Trenching Adder	Up to 24" Deep								500		
Rock Boring Adder	Up to 24" Deep	LIN FT	\$	43.00	\$	2.00	\$	45.00	500	\$	22,500.0
CBD Adder	CBD Urban Premium	LIN FT	\$	125.00	\$	25.00	\$	150.00		\$	-
						Undergr	ound	Sub-Total:		\$	375,950.0
<u>\erial:</u>											
Aerial - New Construction	New Construction	LIN FT	\$	5.00	\$	1.00	\$	6.00		\$	-
Aerial - Overlash - De/Re	Overlash - De/Re	LIN FT	\$	4.00	\$	0.50	\$	4.50		\$	_
Aerial - Wreckout	Wreckout	LIN FT	\$	2.00	\$	0.25	\$	2.25		\$	
Place Strand	6.6M	LIN FT	\$	3.00	\$	1.00	\$	4.00		\$	-
Place Riser	2"	EACH	\$	300.00	\$	250.00	\$	550.00		\$	-
Place Riser	4" w/ 4 - 1.25" ID	EACH	\$	500.00	\$	350.00	\$	850.00		\$	-
Place Pole	50 ft class 2	EACH	\$	1,250.00	\$	850.00	\$	2,100.00		\$	_
Fasement	Private	EACH	\$	2,000.00	\$	-	\$	2,000.00		\$	
Luconnone	Raise-Move-Lower			250.00	\$	50.00	\$			\$	
Make Ready	Raise-Move-Lower	EACH	\$	250.00	3			300.00		\$	
acility Connection:						,	eriai	Sub-Total:		ð	-
Building Entry - Aerial Mast		EACH	\$	500.00	\$	350.00	\$	850.00		\$	-
Building Interior Raceway	1-1/4" Flex Conduit	LIN FT	\$	10.00	\$	2.00	\$	12.00		\$	-
Building Interior Raceway	4" EMT	LIN FT	\$	15.00	\$	15.00	\$	30.00		\$	-
Pull Boxes - NEMA3R	12x12	EACH	\$	125.00	\$	25.00	\$	150.00		\$	-
Pull Boxes - NEMA3R	24x24	EACH	\$	250.00	\$	50.00	\$	300.00		\$	
Core Drill	2"	EACH	\$	300.00			-	350.00		\$	
			-		\$	50.00	\$				-
Core Drill	4"	EACH	\$	500.00	\$	50.00	\$	550.00		\$	-
nnerduct Installation	3 - 1 1/4" SDR13.5	EACH	\$	2.50	\$	2.00	\$	4.50		\$	-
Cable Pulling	existing - vacant	LIN FT	\$	2.00	\$	0.50	\$	2.50		\$	-
Cable Pulling	existing - occupied	LIN FT	\$	3.00	\$	0.50	\$	3.50		\$	
Comm Shelter (POP)	12x20 Pre-Fab	EACH		40,000.00	\$	50,000.00	\$	90,000.00		\$	
											-
Generator / Power Supply Site Prep	5KW / Propane Tank Foundation & Site	EACH EACH		10,000.00	\$	30,000.00 10,000.00	\$	40,000.00 20,000.00		\$	
эке г тер	roundation & Site	LACIT	9	10,000.00		cility Conne				\$	
Cable, Splicing and Term	nination:					-					
Splicing	Reel End Fusion	EACH	\$	27.00	\$	3.00	\$	30.00		\$	
		EACH	\$	250.00	\$	250.00	\$	500.00	2	\$	1,000.0
Splicing	Splice Case								2		1,000.0
Splicing	Terminations	EACH	\$	27.00	\$	8.00	\$	35.00		\$	-
Splicing	Bucket Truck Adder	T&M	\$	22.00			\$	22.00		\$	-
Splicing Technician	\$ 80 + \$ 40 Truck	T&M	\$	120.00			\$	120.00		\$	
Splicing Technician OT	\$ 112 + \$ 40 Truck	T&M	\$	152.00			\$	152.00		\$	
Patch Panels	6F	EACH	Ť	. 52.00	\$	150.00	\$	150.00		\$	
Patch Panels	12F	EACH			\$	200.00	\$	200.00		\$	
											-
Patch Panels	24F	EACH			\$	250.00	\$	250.00		\$	-
Patch Panels	48F	EACH			\$	450.00	\$	450.00		\$	-
Patch Panels	72F	EACH			\$	550.00	\$	550.00		\$	-
Patch Panels	96F	EACH			\$	650.00	\$	650.00		\$	
Fiber Cable	6F	EACH			\$	0.50	\$	0.50		\$	
Fiber Cable	12F	EACH			\$	0.50	\$	0.50		\$	-
											-
iber Cable	24F	LIN FT			\$	0.65	\$	0.65		\$	
iber Cable	48F	LIN FT			\$	0.75		0.75	8,800	\$	6,600.
iber Cable	72F	LIN FT			\$	1.25	\$	1.25		\$	-
iber Cable	96F	LIN FT			\$	1.50	\$	1.50		\$	
iber Cable	144F Micro	LIN FT			\$	1.10		1.10		\$	
			C	Cable, Splic		and Termin				\$	7,600.
roject Totals by Segme	nt:					Hand -	ara.	and Soctions		•	375 050
lotos						Under		and Section:		\$	375,950.
lotes:								rial Section:		\$	
						Facility Con				\$	
						ng and Term				\$	7,600.
			A	ui Sections	Co	mbined Con	struc	ction rotals:		\$	383,550.
				En	aine	eering Cost:		Est.		\$	26,000.0
						eering Cost:				S S	
					eva	eering Cost: illing Wage: ontingency:		Est. 15% 10%		\$ \$	26,000. 57,532. 38,355.



# Oregon Telephone Company – City of John Day

Underground:								10	OTEC-C	tv o	John Day
Description	Туре	Unit		Labor	-	Materials	Т	otal Unit	Qty.		otal Cost
	OII EN CO		_	40.00	^	4.00	^	40.00		^	
renching - Native B/F	2" PVC 4" PVC	LIN FT	\$	12.00 16.00	\$	4.00 6.00	\$	16.00 22.00		\$	-
Frenching - Native B/F			\$						150	\$	4 900 0
Frenching A/C - Select B/F		LIN FT		22.00	\$	10.00	\$	32.00	150		4,800.0
renching A/C - Select B/F		LIN FT	\$	24.00	\$	12.00	\$	36.00		\$	-
Frenching A/C - CDF B/F	2" PVC	LIN FT	\$	30.00	\$	30.00	\$	60.00		\$	-
Trenching A/C - CDF B/F	4" PVC	LIN FT	\$	34.00	\$	36.00	\$	70.00		\$	-
Directional Boring	2" Diameter	LIN FT	\$	16.00	\$	4.00	\$	20.00		\$	-
Directional Boring	4" Diameter	LIN FT	\$	20.00	\$	5.00	\$	25.00		\$	-
Directional Boring A/C	2" Diameter	LIN FT	\$	25.00	\$	7.00	\$	32.00	1,500	\$	48,000.0
Directional Boring A/C	4" Diameter	LIN FT	\$	26.00	\$	9.00	\$	35.00	.,	\$	-
Vault Installation	Utility Vault 444LA	EACH	\$	2,500.00	\$	2,000.00	\$	4,500.00	1	\$	4,500.0
Hand Hole - Concrete	264 TA	EACH	\$	2,000.00	\$	1,500.00	\$	3,500.00	- '	\$	
											-
Hand Hole - Composite	24x36	EACH	\$	1,750.00	\$	875.00	\$	2,625.00		\$	-
Hand Hole - Composite	17x30	EACH	\$	1,250.00	\$	500.00	\$	1,750.00		\$	-
Micro-Duct Install in 2"	7 - 12.7mm Micro	LIN FT	\$	5.00	\$	1.50	\$	6.50		\$	-
nnerduct Installation	4 - 1" SDR13.5	LIN FT	\$	5.00	\$	3.00	\$	8.00		\$	-
Cable Pulling	exist / new - vacant	LIN FT	\$	2.50	\$	0.50	\$	3.00	1,650	\$	4,950.0
Cable Pulling	existing - occupied	LIN FT	\$	3.50	\$	0.50	\$	4.00	,	\$	
Rock Trenching Adder	Up to 24" Deep	LIN FT	\$	23.00	\$	2.00	\$	25.00		\$	-
Rock Boring Adder	Up to 24" Deep	LIN FT	\$	43.00	\$	2.00	\$	45.00	100	\$	4,500.0
							\$		100		4,300.0
CBD Adder	CBD Urban Premium	LINFI	\$	125.00	\$	25.00		150.00		\$	
Aerial:						Undergro	ound	Sub-Total:		\$	66,750.0
Aerial - New Construction	New Construction	LIN FT	\$	5.00	\$	1.00	\$	6.00	2,000	\$	12,000.0
Aerial - Overlash - De/Re	Overlash - De/Re	LIN FT	\$	4.00	\$	0.50	\$	4.50	1,700	\$	7,650.0
Aerial - Wreckout	Wreckout	LIN FT	\$	2.00	\$	0.25	\$	2.25		\$	-
Place Strand	6.6M	LIN FT	\$	3.00	\$	1.00	\$	4.00		\$	-
Place Riser	2"	EACH	\$	300.00	\$	250.00	\$	550.00		\$	-
Place Riser	4" w/ 4 - 1.25" ID	EACH	\$	500.00	\$	350.00	\$	850.00		\$	
Place Pole			\$		\$	850.00	\$			\$	_
	50 ft class 2	EACH		1,250.00				2,100.00			-
Easement	Private	EACH	\$	2,000.00	\$	-	\$	2,000.00		\$	-
Make Ready	Raise-Move-Lower	EACH	\$	250.00	\$	50.00	\$	300.00	1	\$	300.0
						A	erial	Sub-Total:		\$	19,950.0
Facility Connection:											
Building Entry - Aerial Mast	2" GRC w/ WH	<b>EACH</b>	\$	500.00	\$	350.00	\$	850.00		\$	-
Building Interior Raceway	1-1/4" Flex Conduit	LIN FT	\$	10.00	\$	2.00	\$	12.00		\$	-
Building Interior Raceway	4" EMT	LIN FT	\$	15.00	\$	15.00	\$	30.00		\$	-
Pull Boxes - NEMA3R	12x12	EACH	\$	125.00	\$	25.00	\$	150.00		\$	-
	24x24		\$							\$	
Pull Boxes - NEMA3R		EACH		250.00	\$	50.00	\$	300.00			-
Core Drill	2"	EACH	\$	300.00	\$	50.00	\$	350.00		\$	-
Core Drill	4"	EACH	\$	500.00	\$	50.00	\$	550.00		\$	-
Innerduct Installation	3 - 1 1/4" SDR13.5	EACH	\$	2.50	\$	2.00	\$	4.50		\$	-
Cable Pulling	existing - vacant	LIN FT	\$	2.00	\$	0.50	\$	2.50		\$	-
Cable Pulling	existing - occupied	LIN FT	\$	3.00	\$	0.50	\$	3.50		\$	-
Comm Shelter (POP)	12x20 Pre-Fab	EACH	S	40,000.00	\$	50,000.00	\$	90,000.00		\$	-
Generator / Power Supply	5KW / Propane Tank	EACH		10,000.00	\$	30,000.00	\$	40,000.00		\$	_
Site Prep	Foundation & Site	EACH		10,000.00	\$	10,000.00	\$	20,000.00		\$	-
one i rep	1 ouridation & Site	LACIT	J	10,000.00		cility Connec				\$	-
Cable, Splicing and Term	ination:										
Splicing	Reel End Fusion	EACH	\$	27.00	\$	3.00	\$	30.00		\$	
Splicing		EACH		250.00	\$			500.00	3		1,500.0
	Splice Case		\$			250.00	\$		3	\$	
Splicing	Terminations	EACH	\$	27.00	\$	8.00	\$	35.00		\$	-
Splicing	Bucket Truck Adder	T&M	\$	22.00			\$	22.00		\$	-
Splicing Technician	\$ 80 + \$ 40 Truck	T&M	\$	120.00			\$	120.00		\$	-
Splicing Technician OT	\$ 112 + \$ 40 Truck	T&M	\$	152.00			\$	152.00		\$	-
Patch Panels	6F	<b>EACH</b>			\$	150.00	\$	150.00		\$	-
Patch Panels	12F	EACH			\$	200.00	\$	200.00		\$	-
Patch Panels	24F	EACH			\$	250.00	\$	250.00		\$	-
Patch Panels	48F	EACH			\$	450.00	\$	450.00		\$	
Patch Panels										\$	
	72F	EACH			\$	550.00	\$	550.00			-
Patch Panels	96F	EACH			\$	650.00	\$	650.00		\$	-
Fiber Cable	6F	EACH			\$	0.50	\$	0.50		\$	-
Fiber Cable	12F	EACH			\$	0.50	\$	0.50		\$	-
Fiber Cable	24F	LIN FT			\$	0.65	\$	0.65		\$	-
Fiber Cable	48F	LIN FT			\$	0.75	\$	0.75	5,500	\$	4,125.0
Fiber Cable	72F	LIN FT			\$	1.25	\$	1.25		\$	-
Fiber Cable	96F	LIN FT			\$	1.50	\$	1.50		\$	-
Fiber Cable	144F Micro	LIN FT			\$		\$	1.10		\$	
ibo. Gabic	H WIICIO	CHALL I	C	able, Splic		and Termina				\$	5,625.0
Project Totals by Segme	nt:				Ĭ						
lata a						Under		ind Section:		\$	66,750.0
Notes:						Enaille: O:		rial Section:		\$	19,950.0
				Cable Sn		Facility Con g and Term				\$	5,625.0
			Α			mbined Con				\$	92,325.0
											,
				En	gine	ering Cost:		Est.		\$	17,000.0
				D.	eva	iling Wage:		15%		\$	13,848.7
				FI	-	illing wage.		10 /01		•	13,040.7
				FI		nting wage.		10%		\$	9,232.5

