MAXIMUM TOTAL COST FACTORS Common Underground Materials Tota	al	\$4,900,762.98				
Common Underground Labor Total		\$14,347,098.00				
Common Undergound Grand Total		\$19,247,860.98	\$2,387.48			
100% Underground Drop Total		\$10,110,578.88	\$1,254.10	average	per drop	
100% UNDERGROUND GRAND TOTAL		\$29,358,439.86	\$3,641.58			
MINIMUM TOTAL COST FACTORS						
Common Aerial Materials Total		\$3,994,837.37				
Common Aerial labor Total		\$8,926,848.00				
Common Aerial GRAND TOTAL		\$12,921,685.37	note that this is not	t realistic		\$16,084,773.18 is realistic \$3,163,087.81
100% Aerial Drop Total		\$6,578,914.48	\$816.04	average	per drop	ψ5)205)007102
100% Aerial Grand Total		\$19,500,599.85				\$3,531,664.40 UG to AER Drop Difference
	Common MAX	\$19,247,860.98				
	Percentage Aerial	40.00	0	% Aerial		
	Savings	\$0.00				
	Adjusted Common Total	\$19,247,860.98				
	Drop Max	\$10,110,578.88				
	Percentage Aerial	ψ10,110,570.00	0	% Aerial		
	Savings	\$0.00				
	Adjusted Drop Total _	\$10,110,578.88				
	100% Take Rate Total	\$29,358,439.86				
	Take Rate Savings	\$5,257,501.02	52		48%	Take Rate
•						
^	Adjusted Grand Total	\$24,100,938.84				
	Number Participating	3870				
	Cost Per Participant	\$6,228.02			\$5,605.22	estimated final with design improvements (10%
	· L	, , , , , ,				
	Total Before Grant	\$24,100,938.84				
	Grant Amount	\$0.00	0	%		
	After Grant	\$24,100,938.84				
	Number Participating	1	0%			
•	Cost Per Participant	\$24,100,938.84		\$21,6	90,844.96	

DESCRIPTION	QUANTITY	UNIT COST	TOTAL COST	UG UNIT	UG LABOR	AER UNIT	AER LABOR
SHELTER	6	131666	\$789,996.00				
Shelter Labor (includes splice)	6			20000	\$120,000.00	20000	\$120,000.00
DUCT 2" SDR11 smooth outside, silicore inside	181,760	\$1.4560	\$264,642.56				
1.25" SDR11 smooth outside, silicore inside	901,827	\$0.7020	\$633,082.55				
2" duct couplings 1.25" duct couplings	500 1,000	\$7.0890 \$4.6560	\$3,544.50 \$4,656.00				
Path Labor	729,500	*	* //	17	\$12,401,500.00	12	\$8,754,000.00
VAULTS	723,300			17	\$12,401,500.00	12	Ç6,754,000.00
30" x 48" x 36" T22 split lid poly concrete	500	\$876.0000	\$438,000.00				
17" x 30" x 18" T15 poly concrete 14" x 19" x 12" HDPE	3,000 3,000	\$219.3110 \$46.1670	\$657,933.00 \$138,501.00				
Vault labor	7,106	,	,,	150	\$1,065,900.00		
CABLE							
72F single armored loose tube	78,000	\$0.4700	\$36,660.00				
96F single armored loose tube 144F single armored ribbon	5,000 30,000	\$0.6100 \$0.8320	\$3,050.00 \$24,960.00				
288 single armored ribbon	52,000	\$1.6260	\$84,552.00				
432 single armored ribbon 864 single armored ribbon	11,000 210,000	\$2.2880 \$4.2760	\$25,168.00 \$897,960.00				
2500LB 3/4" mule tape	386,000	\$0.0389	\$15,015.40				
Cable Labor	386,000			1.5	\$579,000.00		
SPLICE ENCLOSURES							
FOSC600-D8R-R2-1-M4V FOSC450-D6-6-72-1-D6V	120 240	\$478.6700 \$364.6700	\$57,440.40 \$87,520.80				
FOSC-ACC-D-TRAY-RIBN-24	1,500	\$33.8380	\$50,757.00				
FAK-MULDRP-45-SEAL-FLAT4 (450) FAK-MULDRP-45-3-DRP (450)	400 300	\$24.1400 \$12.9900	\$9,656.00 \$3,897.00				
FAK-MULDRP-45-3/CBL-ATT (600)	200	\$15.2800	\$3,056.00				
FAK-MULDRP-45-4P/CBL-ATT (600) FAK-MULDRP-45-4W-DRP (450 tape)	300 100	\$17.3200 \$10.7100	\$5,196.00 \$1,071.00				
FAK-MULDRP-45-4W/CBL-ATT (600 tape)	100	\$12.9900	\$1,299.00				
SMOUV-1120-02 SMOUV-1120-R2/12	10,000 8,000	\$0.1800 \$0.7900	\$1,800.00 \$6,320.00				
Splice labor	324			52	\$16,848.00	52	\$16,848.00
LOCATE							
Rhino RDR72WOFO811TS9125	200	\$45.0000	\$9,000.00				
4' ground rod Acorn nuts for ground rods	200 200	\$11.2500 \$1.5000	\$2,250.00 \$300.00				
Green THHN 14 AWG	10,000	\$0.1610	\$1,610.00				
Locate Labor	200			17.5	\$3,500.00		
MULTI-SERIVCE TERMINALS	283	\$114.6270	£22 420 44				
6 port w/ 100' tonable tail MST-06MH00-B0100U 6 port w/ 250' tonable tail MST-06MH00-B0250U	304	\$114.6270	\$32,439.44 \$42,145.95				
6 port w/ 500' tonable tail MST-06MH00-B0500U 6 port w/ 750' tonable tail MST-06MH00-B0750U	688 602	\$191.3300 \$231.3510	\$131,635.04 \$139,273.30				
6 port w/ 1000' tonable tall MST-06MH00-B1000U	333	\$271.4050	\$90,377.87				
6 port w/ 1500' tonable tail MST-06MH00-B1500U	277	\$364.1080	\$100,857.92				
MST labor	2,487			50	\$124,350.00		
RACK COSC 760242402 ODF-FF19CM-36RU-SP	6	\$3,720.9620	\$22,325.77				
COSC ODF-FF19CM36RU RACK COSC FOSC-ACC-D-TRAY-RR-288-KIT	12 32	\$2,699.2220	\$32,390.66				
		\$33.8380	\$1,082.82				
Rack Labor (includes splice)	6			6000	\$36,000.00	6000	\$36,000.00
	Т	OTALS	\$4,851,422.98		\$14,347,098.00		\$8,926,848.00
CORE ELECTRONICS							
Open Access Cloud	1	30000	30000				
Provider Edge Core Switching	1 2	3500 7600	3500 15200				
Misc (optics, cables and jumpers)	20	32	640				
	Т	OTAL	\$49,340.00				
UG Material Total	\$4,900,762.98						
AER Material Total	\$3,994,837.37						
UG Labor Total	\$14,347,098.00						
AER Labor Total	\$8,926,848.00						
UG COMMON GRAND TOTAL	\$19,247,860.98						
AER COMMON GRAND TOTAL	\$12,921,685.37						
PERCENTAGE SAVINGS	-33%						
-	33,0						

DESCRIPTION	QUANTITY	UNIT COST	TOTAL COST	UG UNIT	UG LABOR	AER UNIT	AER LABOR
DROP							
.75" SDR13.5 duct 500' drop cable Slack storage box Drop termination Virtual Broadband Gateway (inlcudes, jumper & optic)	4,265,032 8,062 8,062 8,062 8,062	0.45 109.00 13.54 3.50 350.00	\$1,919,264.40 \$878,758.00 \$109,159.48 \$28,217.00 \$2,821,700.00				
Drop labor	8,062			400 \$	3,224,800.00	200 \$	1,612,400.00
Install labor	8,062			90 \$	725,580.00	90 \$	725,580.00
Access port	8,062	50.00	\$403,100.00				
TOTALS			\$6,160,198.88	\$	3,950,380.00	5	2,337,980.00
ACCESS PORT CALCULATION (based on 8062)							
48 port access switch Small Form Pluggable (SFP optic) Jumper	168 8,062 8,062	1,600.00 14.00 2.00	\$268,800.00 \$112,868.00 \$16,124.00 \$397,792.00				
AVG cost per SUB	\$49.34						
GRAND TOTAL UG	\$10,110,578.88		\$1,254.10 a	verage per connecte	d subscriber		
GRAND TOTAL AER	\$6,578,914.48		\$816.04 a	verage per connecte	d subscriber		

DESCRIPTION	QUANTITY	UNIT COST	TOTAL COST
Shelter Racking - Termination Racking - Electronics Splice Trays Termination Panels Generator Power Electronics	1	85000	85000
	1	3720.96	3720.96
	2	2699.22	5398.44
	15	33.84	507.6
	6	1274	7644
	1	20000	20000
	1	2400	2400
	1	6995	6995
	TO	TAL	131666
TEMINATION PANELS 4RU Enclosure FHD Adapter LC 24F Ribbon Pigtails	1	230	230
	12	19	228
	24	34	816
	TO	TAL	1274
ELECTRONICS Console management In band management Top Of Rack Miscellaneous (optics, jumpers)	1 1 1 20 TO	2325 530 3500 32	2325 530 3500 640 6995