Goathouse Refuge Network Topology

Phase 1	Needed Now
Phase 2	
Phase 3	
Phase 4	

Parts List - Estimates

Phase 1	Needed Now
Phase 2	
Phase 3	
Phase 4	

Starlink Dish and Router		https://starlink.com		$599
Starlink 150 ft cable		https://starlink.com		$93
Starlink Ethernet Adapter		https://starlink.com		$25
Starlink Roof Pivot Mount		https://starlink.com		$45
StarLink J mount Extender		https://starlink.com		$37
S-5! Grabber Fix		https://buys-5.com/gripperfix-utility-mounting-system-for-metal-roofing/?gad=1	$200 + installation	
PVC Pipe	1 ½"	4 pipelines buried underground: 1. From office building to Main House – 40ft 2. From office building to HughesNet pole 20 ft 3. From office building to Art Gallery 100 ft	Trencher Rent About 500 ft. $15 per 10 ft.	$200 50

		4. From office building to Adoption House 320 ft	50 x $15 =	$750
		PVC Fittings (joins 1 pipe to another) Long sweep elbows 10 of them	$1 x 50 $6 x 10	$50 $60
CAT6 Outdoor Cable	Shielded, Outdoor with PoE - 2000ft	https://www.amazon.com/Outdoor-Shielded-Waterproof-Ethernet-trueCABLE/dp/B01JAVN1C8/ref=sr_1_2_sspa We will run this cable outside from office to house, and from office to outdoor wireless AP. The AP needs PoE power. Which is why this cable supports PoE.	$256 2 x 1000 ft	$512
Phone Line	Shield Outdoor	https://a.co/d/7fuavTd		$50
Switch w/o PoE and Switch w/ PoE	TP-Link SG116 or TP-Link TL-SG1005P V2	16 Port for Office Building https://a.co/d/8pR4aZW https://a.co/d/ewHGMhD The StarLink router, unlike HughesNet's router, only has one port. That one port must be connected to a switch. The switch in turn, has many ports which we will connect to the computers, printers, TV and credit card machines in the office and gallery.	$59 x 3 $49 x 3	$177 $147
Wireless AP	Omada Controller OC300 TP-Link EAP650 Outdoor/Indoor	https://a.co/d/7Kgl5bV https://a.co/d/4r1XPqb	 $209 each	$129 $1045

UPS	APC UPS 1500VA	https://www.amazon.com/dp/B06VY6FXMM/ref=redir_mobile_desktop?_encoding=UTF8	$179 each x 2	$358
Ethernet Extender Need to send signal past 300 ft. Office to Adoption House is about 320 ft.	Enable-IT 860X PRO	https://enableit.com/product/enable-it-860x-pro-gigabit-ethernet-extender/ We will run a underground cable from the Office Building to the Adoption Center. Call John: 888-309-0910 Backordered at moment Discount code: "buyamerifcan" 10% You get both ends. Cable extra. Use Cat5E or better.	$480 to-$600	$600
Control Computer		w/ Cam software	$1500	
Outdoor WebCams		To do live feeds and to monitor outdoo cats. Can be used for security. 3 cams		
Cabana Cams		To do live feeds and to monitor cats inside the cabannas. Can be used for security. 5 cams	5 cams	