

Narrative: Internally build Single Mode Fiber Backbone covering all racks. with state of the art structured cable management				
Utilizing new wall-mounted racks near existing racks, Fiber terminations of 12 strands to each rack identified as IDF which are integrated in to MPO type (or equivalent) cabinets to allow 400GB				
All Copper will be re-pulled in entire building to use White Cat6. Cable ladders, Management/ Ladders/Signage will be required. Ladders will provide management from rack extending toward main run/trunk. At a suitable point (based on number and type of cables), J hooks and/or equivalent may be used. A service loop of 10ft on both ends required.				
Use existing Drops at end points if available (in wall boxes, or existing raceway) New Cat 6 Green Keystones and remove abandoned wiring, yellow wire is to be protected from damage, as it is current Wireless AP and will remain				
Goal: Future Proof the wiring infrastructure for 25 years.				
Fiber will run from each MDF to every IDF rack to provide 100GB backbone throughout buildings				
New Wall mount racks will be required for MDF/IDF racks, including top 1u termination of fiber and Rack mounted UPS				
item	desc	capability	qty	features
Admin BLD	12 slot Chassis Switch	MDF		2 8 port Fiber Modules populated with SFP+
Internet drop and WAN Connection point		10GB, 40GB, 100GB capable		128 1gb POE
916 Hwy 64 East	Copper Wiring	cat 6+		100 fully structured with racks/ladders/cable management
100 drops new construction planned Jan 2022				
UPS in rack or at least off the floor				
Annex	4 slot chassis	MDF		2 8 port Fiber Modules populated with SFP+
current data center, must mirror fiber ports to transport fiber from POP to DC. then back to Distribution Point	use existing racks (cabinets)	10GB, 40GB, 100GB capable		96 1gbe POE
25 drops				
AMS	rack 1/4 upper library	MDF		
716 Hwy 64 East	12 slot chassis	10GB, 40GB, 100GB capable		4 Fiber Ports populated with SFP+
300 drops				
	rack 2/4 Office			
	Switch/Stack of	10GB, 40GB, 100GB capable		1 Fiber Port
				96 1gbe POE
	rack 3/4 f hall	IDF		
	Switch/Stack of	10GB, 40GB, 100GB capable		1 Fiber Port
				48 1gbe POE
	rack 4/4 laundry			
	Switch/Stack of	10GB, 40GB, 100GB capable		1 Fiber Port
				24 1gbe POE
APS	rack 1/2 Office	MDF		
1600 Hwy 64 East	Switch/Stack of	10GB, 40GB, 100GB capable		4 Fiber Port
200 drops				96 1gbe POE
	rack 2/2 E Hall	IDF		
	Switch/Stack of	10GB, 40GB, 100GB capable		1 Fiber Port
				48 1gbe POE
AIS	rack 1/2 Library	MDF		
1220 Collum Lane	Switch/Stack of	10GB, 40GB, 100GB capable		4 Fiber Port
250 drops				96 1gbe POE
	rack 2/2 C Hall	IDF		
	Switch/Stack of	10GB, 40GB, 100GB capable		1 Fiber Port
				48 1gbe POE
AHS	rack 1/14 Office	MDF		
101 E Main ST	12 slot chassis	10GB, 40GB, 100GB capable		24 Fiber Port
750 drops	96 DROPS			96 1gbe POE
	rack 2/14 1400	IDF		
	12 slot chassis	10GB, 40GB, 100GB capable		8 Fiber Port
	120 drops			128 1gbe POE
	rack 3/14 110	IDF		
	Switch/Stack of	10GB, 40GB, 100GB capable		1 Fiber Port
	200 DROPS			128 1gbe POE
	rack 3/14 Green Room			
	Switch/Stack of	10GB, 40GB, 100GB capable		1 Fiber Port
	12 drops			24 1gbe POE
	rack 5/14 Fieldhouse	IDF		
	Switch/Stack of	10GB, 40GB, 100GB capable		8 Fiber Port
	48 drops			48 1gbe POE
	rack 6/14 AOS			
	Switch/Stack of	10GB, 40GB, 100GB capable		1 Fiber Port
	16 drops			24 1gbe POE
	rack 7/14 PressBox			
	Switch/Stack of	10GB, 40GB, 100GB capable		1 Fiber Port
	20 drops			24 1gbe POE
New Construction 2021	rack 8/14 Agri			
	Switch/Stack of	10GB, 40GB, 100GB capable		8 Fiber Port
	100 drops			64 1gbe POE
	rack 9/14 1105	idf		
	Switch/Stack of	10GB, 40GB, 100GB capable		8 Fiber Port
	24 drops			24 1gbe POE

	rack 10/14 ROTC						
	Switch/Stack of	10GB, 40GB, 100GB capable		1 Fiber Port			
	12 drops			64 1gbe POE			
	rack 11/14 Water Room	IDF					
	Switch/Stack of	10GB, 40GB, 100GB capable		8 Fiber Port			
	96 drops			24 1gbe POE			
	rack 12/14 805	IDF					
	Switch/Stack of	10GB, 40GB, 100GB capable		8 Fiber Port			
	60 drops			24 1gbe POE			
	rack 13/14 SW Arena						
	Switch/Stack of	10GB, 40GB, 100GB capable		1 Fiber Port			
	15 drops			24 1gbe POE			
New Construction 2021	rack 14/14 Activity Center						
	Switch/Stack of	10GB, 40GB, 100GB capable		1 Fiber Port			
	64 drops			64 1gbe POE			